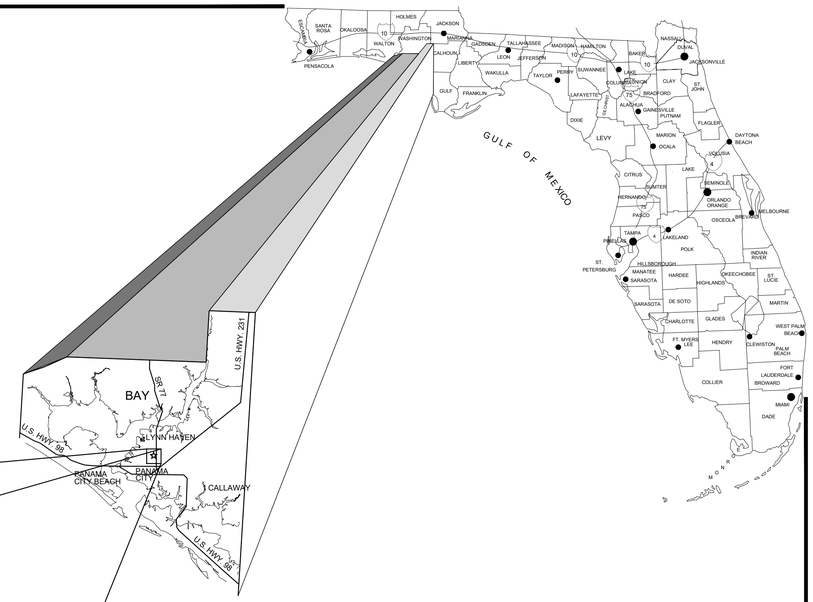
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA



PREPARED FOR:

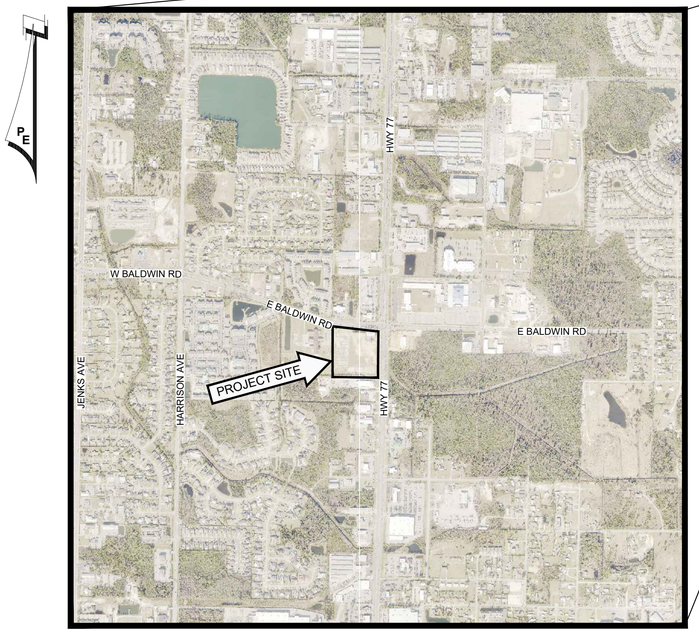
Cole Hagen, CHC Project Manager II

Ryan Companies - National Healthcare

ADDRESS

201 N Franklin St Suite 3500

Tampa, Florida 33602



PARCEL ID: 12859-020
ADDRESS: 2851 HWY 77
PANAMA CITY, FL 32405
(Section-TS-Range): 28-3S-14W
LAT ~ 30° 12' 05.16"
LONG ~ 85° 39' 02.82"

VICINITY MAP

0' 500' 1000' 2000'

SCALE: 1" = 1000'

LH TRC COMMENT RESPONSE
05 FEBRUARY 2026

DECEMBER 2025

PROJECT No. 1915.01

DRAWING INDEX

No. - TITLE

0 - ALTA WITH TOPO
1 - EXISTING CONDITIONS, AND DEMO PLAN
2 - OVERALL SITE PLAN
3 - SITE LAYOUT PLAN
4 - DRAINAGE LAYOUT PLAN
5 - GRADING LAYOUT PLAN
6 - ACCESS PLAN AND PROFILES
7 - STORMWATER MANAGEMENT DETAILS
8 - UTILITY LAYOUT PLAN
9 - EROSION CONTROL PLAN
10 - FDOT ACCESS LAYOUT PLAN
11 - FY 2025-26 FDOT STD PLANS INDEX DETAILS
12 - FY 2025-26 FDOT STD PLANS INDEX DETAILS
13 - FY 2025-26 FDOT STD PLANS INDEX DETAILS
14 - BAY COUNTY ACCESS LAYOUT PLAN
15 - CONSTRUCTION NOTES AND DETAILS
16 - CONSTRUCTION DETAILS
17 - UTILITY DETAILS
18 - UTILITY DETAILS
19 - UTILITY DETAILS
20 - STORMWATER POLLUTION PREVENETION PLAN

GOVERNING STANDARD SPECIFICATIONS:

1. Florida Department of Transportation, Latest Edition, Standard Specifications for Road and Bridge Construction, and applicable Supplemental Specifications as shown in the Project Handbook.
2. City of Panama City Standards Details, Latest Edition.
3. Specifications for City of Panama City Utilities, Latest Edition.

PREPARED BY:

PANHANDLE ENGINEERING

ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS

600 Ohio Avenue Lynn Haven, Florida 32444

(850)763-5200 www.panhandleengineering.com

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

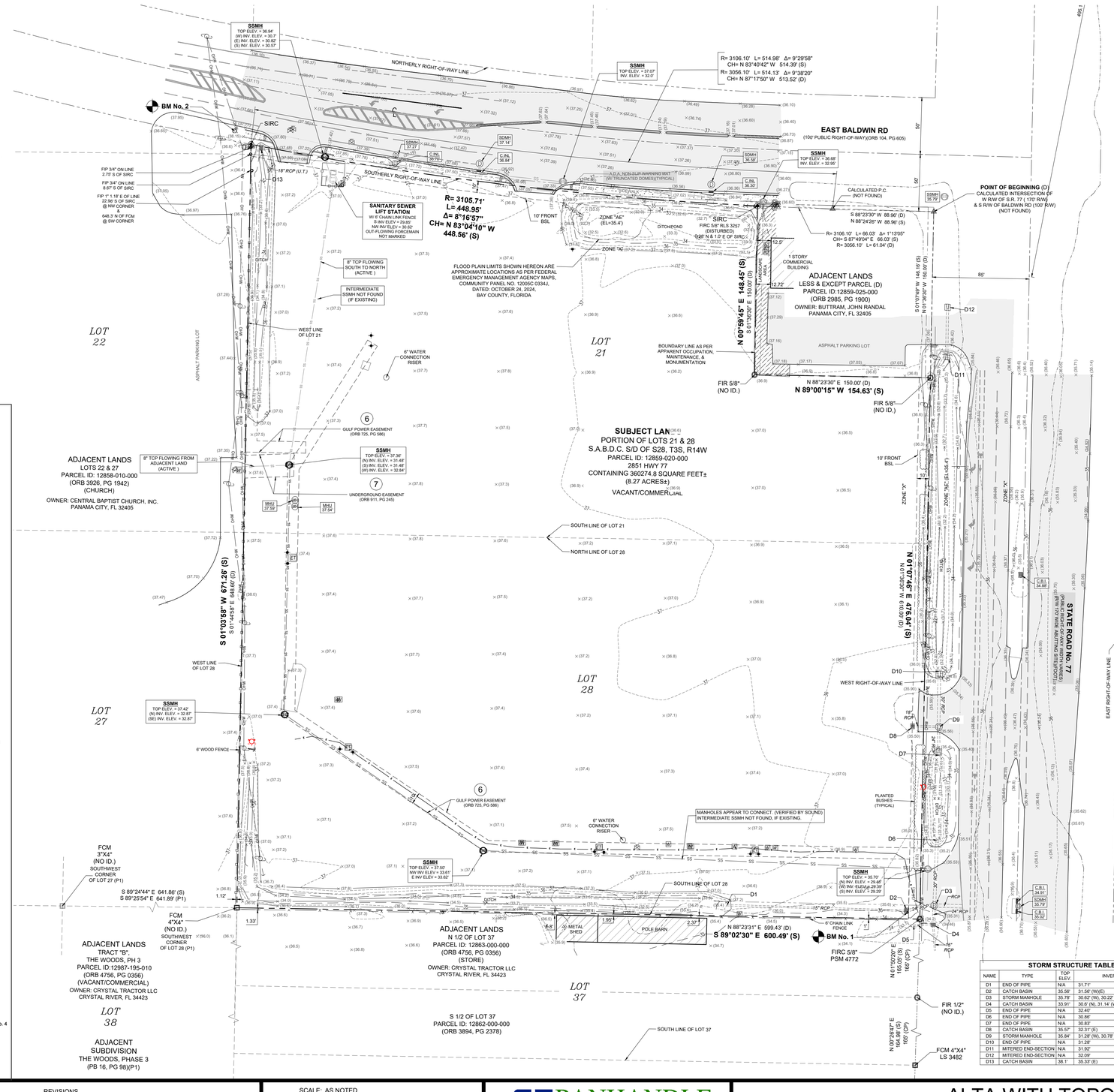
© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

1915.01 REHABILITATION FACILITY AT S.R. 77 COVER SHEET

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

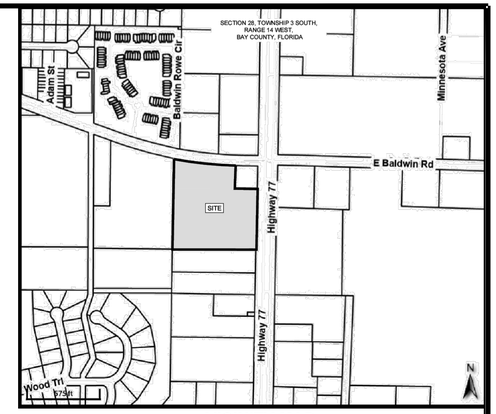
0' 25' 50' 100'

SCALE: 1" = 50'



LEGEND

S.A.B.D.C.	SAINT ANDREWS BAY DEVELOPMENT COMPANY
S/D	SUBDIVISION
S28, T3S, R14W	SECTION 28, TOWNSHIP 3 SOUTH, RANGE 14 WEST
(CP)	CALCULATED AS PER PLAT
ACSM	AMERICAN CONGRESS ON SURVEYING & MAPPING
ALTA	AMERICAN LAND TITLE ASSOCIATION
BSL	BUILDING SETBACK LINE
℄	CENTER LINE
C.B.I.	CATCH BASIN INLET
(D)	DEED INFORMATION
E.CAB	ELECTRIC UTILITY CABINET
SIRC	SET 5/8" IRON ROD W CAP LB 6745
SN&D	SET NAIL & DISK LB 6745
FCM	FOUND CONCRETE MONUMENT
FIP	FOUND IRON PIPE
FIR	FOUND IRON ROD
FNC	FOUND NAIL & CAP
MAX.	MAXIMUM
MIN.	MINIMUM
ORB	OFFICIAL RECORDS BOOK
(P)	PLAT INFORMATION
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
C.INL	CURB INLET
(S)	SURVEY INFORMATION
P.C.	POINT OF CURVE
D1	SEE STORM STRUCTURE TABLE (D1)
R	RADIUS
L	LENGTH
Δ	CURVE DELTA
CH	CHORD
N	NORTH
S	SOUTH
E	EAST
W	WEST
CONC.	CONCRETE
ELEV.	ELEVATION
SDMH	STORM DRAIN MANHOLE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
MHU	MANHOLE (UNKNOWN USE)
U.T.	UNKNOWN TERMINUS
	BENCHMARK
BM No. 1	BENCHMARK No. 1 FN&D PSM 4772 IN TOP OF CATCH BASIN ELEV. = 35.58' (NAVD88) N = 438407.2585, E 1605214.5937
BM No. 2	BENCHMARK No. 2 FN&D RLS 3257 IN SIDEWALK ELEV. = 38.25' (NAVD88) N = 439094.3063, E 1604623.0766
SDMH 23.33'	DENOTES STRUCTURE (SDMH) WITH TOP ELEV. (23.33') (UNABLE TO ACCESS INVERTS ELEVS.)
AC	AIR CONDITIONING UNIT
ET	ELECTRIC TRANSFORMER
EB	ELECTRIC BOX
T	TELEPHONE PEDESTAL
CB	CABLE BOX
W	WATER METER
D	STORM DRAIN MANHOLE
T	TELEPHONE/COMMUNICATIONS MANHOLE
SS	SANITARY SEWER MANHOLE
MW	MONITORING WELL
C	SEWER CLEANOUT
YD	YARD DRAIN
	STORM DRAIN INLET
	SPIGOT
	BACKFLOW PREVENTER
	WATER VALVE
	GAS VALVE
	SEWER VALVE
	FIRE HYDRANT
	GUY WIRE ANCHOR
	UTILITY POLE
	LIGHT POLE
	SIGN
	BOLLARD
	SEE TITLE COMMITMENT NOTES - ITEM No. 4
	DENOTES LINE NOT TO SCALE
OHW	OVERHEAD WIRES
SS	UNDERGROUND SEWER LINES
W	UNDERGROUND WATER LINES
BSL	BUILDING SETBACK LINE



VICINITY MAP
(NOT TO SCALE)

LEGAL DESCRIPTIONS:

AS PER TITLE COMMITMENT BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NO. FL2503936-4, DATED: MARCH 13, 2025 AT 08:00 AM.

THE LAND IS DESCRIBED AS FOLLOWS:

A PARCEL OF LAND KNOWN AS LOTS 21 AND 28 OF THE ST, ANDREWS BAY DEVELOPMENT COMPANY'S SUBDIVISION OF SECTION 28, TOWNSHIP 3 SOUTH, RANGE 14 WEST, AS SHOWN IN THE RECORDS OF BAY COUNTY, FLORIDA, PLAT BOOK 6, PAGE 18, BEING FURTHER DESCRIBED AS BEING BORDERED ON THE NORTH BY BALDWIN ROAD, ON THE EAST BY FLORIDA HIGHWAY NO. 77, ON THE SOUTH BY LOT NO. 37 AND ON THE WEST BY LOTS 22 AND 27, AND BEING FURTHER DESCRIBED AS: A POINT OF BEGINNING WHERE THE SOUTH R/W LINE OF BALDWIN ROAD (A 100 FOOT R/W AS NOW ESTABLISHED) INTERSECTS THE WEST R/W LINE OF FLORIDA HIGHWAY NO. 77 (A 170 FOOT R/W AS NOW ESTABLISHED); THENCE ALONG THE SOUTH R/W LINE OF BALDWIN ROAD S88°23'30"W A DISTANCE OF 88.96 FEET TO THE P.C. OF A CURVE; THENCE CONTINUING ALONG SAID R/W LINE A CURVE TO THE RIGHT HAVING A RADIUS OF 3056.1 FEET AND A TANGENT OF 500.0 FEET, WITH A PROPERTY CHORD OF N87°17'50"W A CHORD DISTANCE OF 513.52 FEET; THENCE S1°44'58"E A DISTANCE OF 648.6 FEET; THENCE N88°23'31"E A DISTANCE OF 599.43 FEET TO THE WEST R/W LINE OF HIGHWAY NO. 77; THENCE ALONG SAID R/W LINE N1°36'30"W A DISTANCE OF 610.0 FEET TO THE POINT OF BEGINNING. SAID LAND LYING IN AND BEING A PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 28, TOWNSHIP 3 SOUTH, RANGE 14 WEST, BAY COUNTY, FLORIDA.

LESS AND EXCEPT:

BEGINNING BEING WHERE THE SOUTH R.O.W LINE OF BALDWIN ROAD INTERSECTS WITH WEST LINE OF FLORIDA HIGHWAY NUMBER 77; THENCE ALONG THE R.O.W. OF BALDWIN ROAD SOUTH 88°23'30" WEST A DISTANCE OF 88.96 FEET TO THE P.C. OF A CURVE; THENCE A CURVE TO THE RIGHT, ALONG THE R.O.W. LINE OF BALDWIN ROAD, HAVING A RADIUS OF 3056.1 FEET AND A TANGENT OF 500.0 FEET; A DISTANCE OF 61.04 FEET; THENCE SOUTH 1°36'30" EAST A DISTANCE OF 150.0 FEET; THENCE NORTH 88°23'30" EAST A DISTANCE OF 150.0 FEET; THENCE NORTH 01°36'30" WEST A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

TITLE COMMITMENT NOTES:

THE SURVEY SHOWN HEREON WAS PREPARED WITH THE BENEFIT OF A TITLE COMMITMENT ISSUED BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT No. FL2503936-4, HAVING AN EFFECTIVE DATE OF MARCH 13, 2025 AT 08:00 AM.

EXCEPTIONS 1 THROUGH 8 OF SCHEDULE B-II WERE REVIEWED AND SHOWN HEREON WHEN APPLICABLE.

SCHEDULE B-II EXCEPTIONS:

EXCEPTIONS 1 - 5, & 8 ARE STANDARD EXCEPTIONS, NO COMMENT FROM THE UNDERSIGNED.

EXCEPTION No. 6: EASEMENT IN FAVOR OF GULF POWER COMPANY RECORDED IN OFFICIAL RECORDS BOOK 725, PAGE 586. **AFFECTS SITE, SHOWN HEREON.**

EXCEPTION No. 7: TERMS, CONDITIONS AND PROVISIONS OF EASEMENT AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 911, PAGE 245. **AFFECTS SITE, SHOWN HEREON.**

ALTA REQUIREMENTS TABLE "A" SURVEYOR NOTES:

4. GROSS LAND AREA (COMBINED PARCELS): 360274.8 SQ. FEET (8.27 ACRES±).
6(a) 6(b). ZONING REPORT NOT PROVIDED. (LAND USE: COMMERCIAL)
9. SITE CONTAINS NO MARKED PARKING SPACES.
11. UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVED EVIDENCE.
16. NO OBSERVED EVIDENCE OF RECENT EARTH WORK OR CONSTRUCTION.
17. SURVEYOR HAS NOT BEEN PROVIDED WITH NOTICE OF PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES.
18. NO OFFSITE EASEMENT DOCUMENTS WERE PROVIDED BY THE CLIENT, EXCEPT FOR THOSE NOTED IN THE TITLE COMMITMENT.

PROPERTY USE INFORMATION:

AS PER CITY OF LYNN HAVEN, FLORIDA DEPARTMENT OF PLANNING & DEVELOPMENT.

LAND USE: COMMERCIAL

MAXIMUM BUILDING HEIGHT = 50'
IMPERVIOUS SURFACE RATIO = 85% MAXIMUM

BUILDING SETBACKS:
FRONT = 10'
SIDES = 0' (10' ABUTTING STREETS)
REAR = 0'

NOTES:

1. BEARINGS SHOWN HEREON ARE DERIVED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION NETWORK SOLUTIONS. DATUM ESTABLISHED USING THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN), WITH RTK OBSERVATIONS ON SITE CONTROL POINTS, BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 83/2011 (NAD 83/2011) US SURVEY FEET, AND ARE GRID BEARINGS.
2. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) (U.S. SURVEY FOOT). BASED ON U.S. COASTAL & GEODETIC SURVEY BENCHMARK, DESIGNATION W 290 (BE0715). ELEVATION = 32.43 FEET (NAVD88) .
3. NO UNDERGROUND FOOTERS OR ROOF OVERHANGS ARE LOCATED BY THIS SURVEY.
4. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
5. MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FEET AND HORIZONTAL DISTANCES.
6. THIS SURVEY IS DEPENDENT ON EXISTING MONUMENTATION AS SHOWN.
7. (℄) DENOTES SCHEDULE B-II EXCEPTIONS.
8. FLOOD INSURANCE RATE MAPS INDICATE THE SUBJECT LANDS SHOWN HEREON ARE LOCATED IN FLOOD ZONE "AE" (ELEV.=35.4'), & "X" (AREA OF MINIMAL CHANCE FLOOD HAZARD), AS INDICATED ON PANEL NO. 12005C 0334J, BAY COUNTY, FLORIDA, DATED 10/24/2024.
9. NO EVIDENCE OF RECENT EARTH MOVING, BUILDING CONSTRUCTION OR ADDITIONS OBSERVED BY FIELD CREW.
10. SURVEYOR NOT AWARE OF ANY PROPOSED RIGHT-OF-WAY CHANGES.
11. NO EVIDENCE OF ACTIVE STREET OR SIDEWALK CONSTRUCTION WAS OBSERVED AT TIME OF SURVEY.
12. THERE HAS BEEN NO DELINEATION OF WETLANDS ON THE SITE SHOWN HEREON.
13. OFFSITE EASEMENTS SHOWN HEREON WERE PROVIDED BY THE CLIENT.
14. THERE WERE NO CEMETERIES OR BURIAL GROUNDS OBSERVED ON THE PROPERTY DURING THE FIELDWORK.
15. OBSERVED EVIDENCE INDICATES THE SITE SHOWN HEREON HAS DIRECT VEHICULAR AND PEDESTRIAN ACCESS TO STATE ROAD No. 77, HAVING A 170' RIGHT-OF-WAY WIDTH, AND BALDWIN RD., HAVING A 100' RIGHT-OF-WAY WIDTH, BOTH BEING PUBLIC RIGHTS-OF-WAY.
16. THE SUBJECT PROPERTY AND ALL ADJACENT PROPERTIES LOCATED ABUTTING THE SUBJECT PROPERTY, ARE CONTIGUOUS ALONG THEIR COMMON BOUNDARY LINES WITH NO GAPS, GORES OR HIATUSES.
17. THE LAND SURVEYED AND SHOWN HEREON IS IDENTICAL TO THE INSURED PREMISES DESCRIBED IN THE REFERENCED TITLE REPORT.
18. THERE ARE NO PARTY WALLS WITH ADJOINING PROPERTIES ON THE SITE SHOWN HEREON.
19. NO ENCROACHMENTS AFFECTING SITE WERE OBSERVED.

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

ALTA WITH TOPO
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethan B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER
0

PROJECT NUMBER
1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 ALTA WITH TOPO Sheet 0

Date: 2/5/2026 1:51 PM File: s:\1915.01 walt rehab lynn haven\1 civil\dwg\ref\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

EAST BALDWIN RD WEST ACCESS CONNECTION REFER TO SHEET 14)

SSMH TOP ELEV. = 36.94' (W) INV. ELEV. = 30.7' (E) INV. ELEV. = 30.82' (S) INV. ELEV. = 30.57'

NORTHERLY RIGHT-OF-WAY LINE

SSMH TOP ELEV. = 37.07' INV. ELEV. = 32.0'

R= 3106.10' L= 514.98' Δ= 9°29'58" CH= N 83°40'42" W 514.39' (S)
R= 3056.10' L= 514.13' Δ= 9°38'20" CH= N 87°17'50" W 513.52' (D)

BM No. 2

SIRC

50'±

SSMH 37.27'

C.I.N. 36.79'

SSMH 37.14'

C.I.N. 36.84'

SSMH 36.56'

C.I.N. 36.50'

SSMH TOP ELEV. = 36.68' INV. ELEV. = 32.95'

EAST BALDWIN RD
(100' PUBLIC RIGHT-OF-WAY)(ORB 104, PG 605)

50'

50'

SSMH+ 35.79'

POINT OF BEGINNING (D)
CALCULATED INTERSECTION OF W R/W OF S.R. 77 (170' R/W) & S R/W OF BALDWIN RD (100' R/W) (NOT FOUND)

CALCULATED P.C. (NOT FOUND)

S 88°23'30" W 88.96' (D)
N 88°24'26" W 88.96' (S)

R= 3106.10' L= 66.03' Δ= 1°13'05" CH= S 87°49'04" E 66.03' (S)
R= 3056.10' L= 61.04' (D)

FIP 3/4" ON LINE 2.75' S OF SIRC

FIP 3/4" ON LINE 8.67' S OF SIRC

FIP 1" 1.19' E OF LINE 22.96' S OF SIRC @ NW CORNER
N
648.3' N OF FCM @ SW CORNER

18" RCP (U.T.)

D13

SANITARY SEWER LIFT STATION
W F/ CHAIN LINK FENCE
S INV. ELEV = 29.80'
NW INV ELEV = 30.02'
OUT-FLOWING FORCEMAIN NOT MARKED

R= 3105.71'
L= 448.95'
Δ= 8°16'5""
CH= N 83°04'10" W
448.56' (S)

SOUTHERLY RIGHT-OF-WAY LINE

A.D.A. NON-SLIP WARNING MAT (W/ TRUNCATED DOMES)(TYPICAL)

ZONE "AE" (EL=35.4')

DITCH/POND

SIRC
FIRC 5/8" RLS 3257 (DISTURBED)
0.28' N & 1.0' E OF SIRC

ZONE "X"

FLOOD PLAIN LIMITS SHOWN HEREON ARE APPROXIMATE LOCATIONS AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, COMMUNITY PANEL NO. 12005C 0334J, DATED: OCTOBER 24, 2024, BAY COUNTY, FLORIDA.

REMOVE CURB, PAVEMENT & SIDEWALK TO NEAREST JOINT

DO NOT DISTURB SANITARY SEWER MANHOLE OR PIPING IN THIS AREA

8" TCP FLOWING SOUTH TO NORTH (ACTIVE)

INTERMEDIATE SSMH NOT FOUND (IF EXISTING)

LOT 22

ASPHALT PARKING LOT

WEST LINE OF LOT 22

6" WATER CONNECTION RISER

PAD MOUNTS, STAND PIPE, AND SAFETY BOLLARDS TO BE REMOVED IN LEGAL MANNER.

GULF POWER EASEMENT (ORB 725, PG 586)

ADJACENT LANDS
LOTS 22 & 27
PARCEL ID: 12858-010-000
(ORB 3926, PG 1942)
(CHURCH)

OWNER: CENTRAL BAPTIST CHURCH, INC.
PANAMA CITY, FL 32405

8" TCP FLOWING FROM ADJACENT LAND (ACTIVE)

SSMH TOP ELEV. = 37.36' (N) INV. ELEV. = 31.48' (S) INV. ELEV. = 31.48' (W) INV. ELEV. = 32.84'

UNDERGROUND EASEMENT (ORB 911, PG 245)

MH 37.59'

MH 37.54'

DO NOT DISTURB EXISTING WOODEN FENCE, WATER MAIN, GAS MAIN, & OVERHEAD POWER

APPARENT GREASE TRAP MANHOLES, PAD MOUNTS, AND SAFETY BOLLARDS TO BE REMOVED IN LEGAL MANNER.

S 01°03'58" W 671.26' (S)
S 01°44'58" E 648.60' (D)

WEST LINE OF LOT 28

REMOVE & DISPOSAL OF ALL EXISTING UTILITIES INCLUDING MANHOLES, PAD MOUNTS, WATER METERS, CONCRETE PADS, SAFETY BOLLARDS, WATER METERS, STAND PIPES, ETC...

LOT 27

SSMH TOP ELEV. = 37.42' (N) INV. ELEV. = 32.87' (SE) INV. ELEV. = 32.87'

6' WOOD FENCE

GULF POWER EASEMENT (ORB 725, PG 586)

SSMH TOP ELEV. = 37.56' (NW) INV. ELEV. = 30.64' E INV ELEV = 33.62

FCM 3"X4" (NO ID.) SOUTHWEST CORNER OF LOT 27 (P1)

S 89°24'44" E 641.86' (S)
S 89°25'54" E 641.89' (P1)

FCM 4"X4" (NO ID.) SOUTHWEST CORNER OF LOT 28 (P1)

ADJACENT LANDS
TRACT "B",
THE WOODS, PH 3
PARCEL ID:12987-195-010
(ORB 4756, PG 0356)
(VACANT/COMMERCIAL)
OWNER: CRYSTAL TRACTOR LLC
CRYSTAL RIVER, FL 34423

LOT 38

ADJACENT SUBDIVISION
THE WOODS, PHASE 3
(PB 16, PG 98)(P1)

REFER TO CROSS SECTIONS SHEET 6

ADJACENT LANDS
N 1/2 OF LOT 37
PARCEL ID: 12863-000-000
(ORB 4756, PG 0356)
(STORE)

OWNER: CRYSTAL TRACTOR LLC
CRYSTAL RIVER, FL 34423

LOT 37

S 1/2 OF LOT 37
PARCEL ID: 12862-000-000
(ORB 3894, PG 2378)

SOUTH LINE OF LOT 37

MANHOLES APPEAR TO CONNECT. (VERIFIED BY SOUND) INTERMEDIATE SSMH NOT FOUND. IF EXISTING.

SSMH TOP ELEV. = 29.66' (N) INV. ELEV. = 29.29' (S) INV. ELEV. = 29.29'

SOUTH LINE OF LOT 28

D1

15" RCP

N 88°23'31" E 599.43' (D)
S 89°02'30" E 600.49' (S)

BM No. 1

6' CHAIN LINK FENCE

FIRC 5/8" PSM 4772

METAL SHED

POLE BARN

1.8'

1.95'

2.37'

1.33'

1.12'

1'

SOUTH LINE OF LOT 21

NORTH LINE OF LOT 28

LOT 21

BOUNDARY LINE AS PER APPARENT OCCUPATION, MAINTENANCE, & MONUMENTATION

FIR 5/8" (NO ID.)

N 00°59'45" E 148.45' (S)
S 01°36'20" E 150.00' (D)

N 88°23'30" E 150.00' (D)
N 89°00'15" W 154.63' (S)

FIR 5/8" (NO ID.)

SUBJECT LANDS
PORTION OF LOTS 21 & 28
S.A.B.D.C. S/D OF S28, T3S, R14W
PARCEL ID: 12859-020-000
2851 HWY 77
CONTAINING 360274.8 SQUARE FEET±
(8.27 ACRES±)
VACANT/COMMERCIAL

ADJACENT LANDS
LESS & EXCEPT PARCEL (D)
PARCEL ID:12859-025-000
(ORB 2985, PG 1900)
OWNER: BUTTRAM, JOHN RANDAL
PANAMA CITY, FL 32405

12.5'

1 STORY COMMERCIAL BUILDING

LANDSCAPE AREA

12.72'

ASPHALT PARKING LOT

85'

S 01°10'49" W 146.18' (S)
N 01°36'20" W 150.00' (D)

D12

D11

ZONE "X"

ZONE "AE" (EL=35.4')

ZONE "X"

REMOVE LIGHT POLE SONOTUBE FOUNDATIONS DISPOSE OF LEGALLY OFFSITE (LOCATIONS APPROXIMATE)

N 01°03'58" E 671.26' (S)
N 01°44'58" W 648.60' (D)

STATE ROAD No. 77
(PUBLIC RIGHT-OF-WAY WIDTH VARIES) (170' MINIMUM WHERE ADJACENT TO SITE)

C.B.I. 34.88'

D10

WEST RIGHT-OF-WAY LINE

D9

D8

D7

16" RCP

30" RCP

24" RCP

HWY 77 ACCESS CONNECTION REFER TO SHEET 10)

EAST RIGHT-OF-WAY LINE

PLANTED BUSHES (TYPICAL)

D6

C.B.I. 34.91'

SDMH 33.79'

C.B.I. 35.02'

D3

D2

D4

D5

REMOVE AND REPLACE DRAINAGE STRUCTURE (SEE SHEET 4)

REMOVE DRAINAGE STRUCTURE AND 18" RCP AND PLUG AT D9

N 01°03'58" E 671.26' (S)
N 01°44'58" W 648.60' (D)

N 01°03'58" E 671.26' (S)
N 01°44'58" W 648.60' (D)

FIR 1/2" (NO ID.)

N 01°26'47" E 164.65' (CP)

FCM 4"X4" LS 3482

N 01°26'47" E 164.65' (CP)

0' 25' 50' 100'
SCALE: 1" = 50'

STORM STRUCTURE TABLE			
NAME	TYPE	TOP ELEV.	INVERT ELEV.
D1	END OF PIPE	N/A	31.71'
D2	CATCH BASIN	35.56'	31.56' (W)(E)
D3	STORM MANHOLE	35.78'	30.62' (W), 30.22' (S), 35.8'± (N), N/A (E)
D4	CATCH BASIN	33.91'	30.6' (N), 31.14' (W), 30.79' (S)
D5	END OF PIPE	N/A	32.40'
D6	END OF PIPE	N/A	30.86'
D7	END OF PIPE	N/A	30.83'
D8	CATCH BASIN	35.57'	32.31' (E)
D9	STORM MANHOLE	35.84'	31.28' (W), 30.78' (S), 31.09 (N)
D10	END OF PIPE	N/A	31.28'
D11	MITERED END-SECTION	N/A	31.92'
D12	MITERED END-SECTION	N/A	32.09'
D13	CATCH BASIN	38.1'	35.33' (E)

NOTES:
1. REMOVE & DISPOSAL OF OVERGROWN BUSHES ALONG SOUTH AN WEST PROPERTY LINES.
2. THIS PROPERTY WAS PREVIOUSLY DEVELOPED FOR A COMMERCIAL SHOPPING CENTER AND HAS BEEN DEMOLISHED WITH ALL ABOVE GRADE STRUCTURES REMOVED.
3. EXISTING UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN REASONABLY LOCATED AND SHOWN ON THIS SHEET.
4. IT IS THE INTENT FOR THE DEMOLITION NOTES PROVIDED TO IDENTIFY EXISTING UTILITIES , CONCRETE & ASPHALT PADS, AND OVERGROWN BUSHES FOR REMOVAL & DISPOSAL.
5. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF UNKNOWN UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL PROVIDE EROSION CONTROL IN ACCORDANCE WITH THE EROSION CONTROL PLAN SHEET 9.
7. CONTRACTOR SHALL TAKE DUE CARE WHEN INSTALLING SILT FENCE AROUND EXISTING UNDERGROUND UTILITIES.
8. ALL DEMOLISHED MATERIALS (i.e. SIGNS, CONCRETE, ASPHALT, ETC.) TO BE REMOVED AND DISPOSED OF IN LEGAL MANNER.

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

EXISTING CONDITIONS, AND DEMO PLAN
REHABILITATION FACILITY AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 1

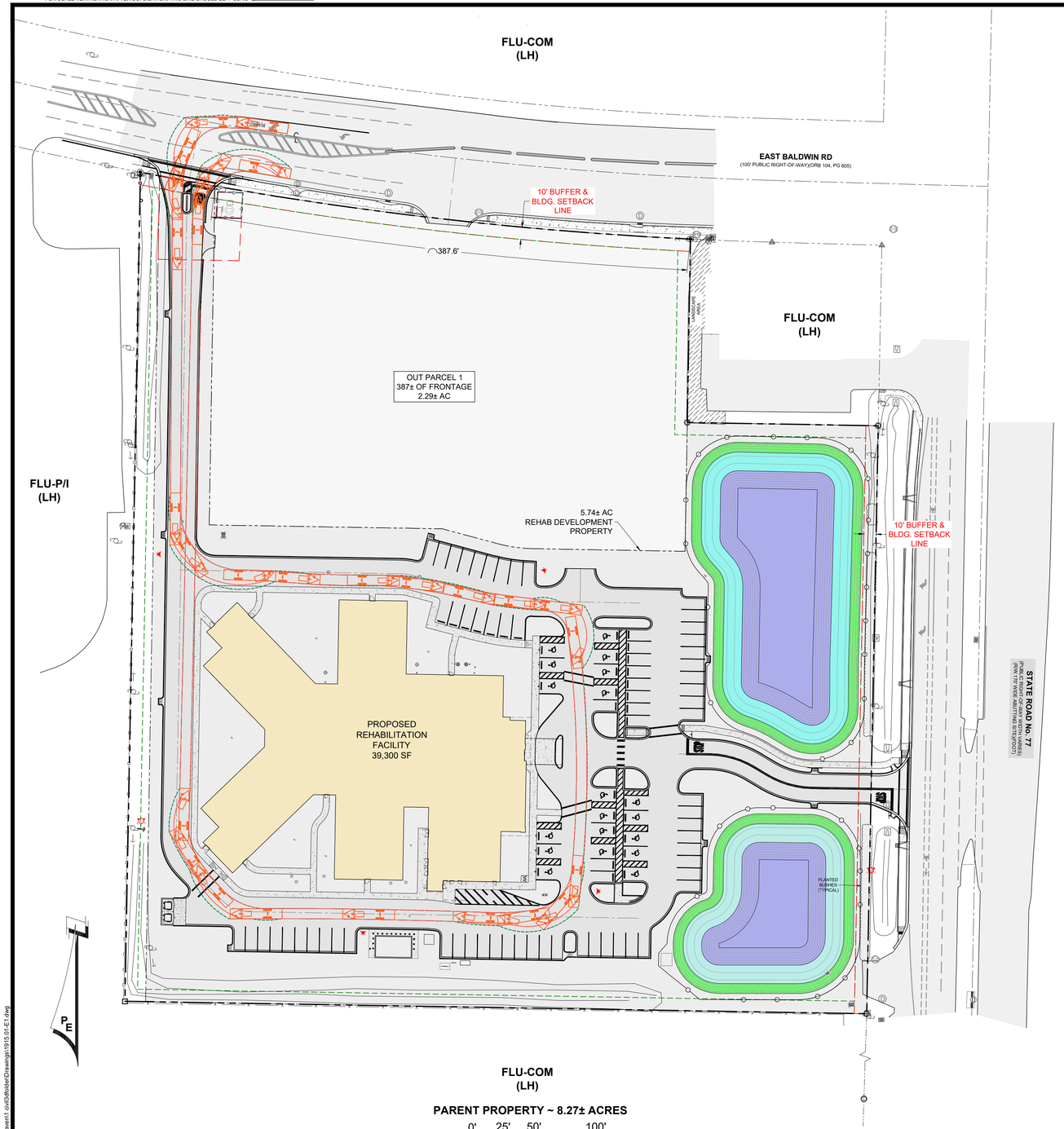
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 EXISTING CONDITIONS, AND DEMO PLAN Sheet 1

Date: 2/5/2026 1:45 PM File: p:\1915.01 exalt rehab lynn haven\1 civil\dwg\xlsx\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



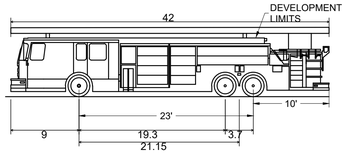
FLU-COM
(LH)

PARENT PROPERTY ~ 8.27± ACRES

0' 25' 50' 100'

SCALE: 1" = 50'





LH Aerial Fire Truck	
Overall Length	42.000ft
Overall Width	8.167ft
Overall Body Height	7.500ft
Min Body Ground Clearance	0.750ft
Max Track Width	8.167ft
Lock-to-lock time	5.00s
Max Wheel Angle	45.00°

LYNN HAVE AERIAL FIRE TRUCK

SITE DATA SCHEDULE

MUNICIPALITY: LYNN HAVEN
PARCEL ID: 12859-020-000
SEC/TWP/RNG: 28-3S-14W
FLU: COM.
PROPERTY: 8.27±AC ~ 360,275±SF
DEVELOPMENT AREA: 5.31±AC ~ 231,491±SF
FIRM ZONE: ZONE "AE" (EL.35.4'), & "X" (AREA OF MIN. CHANCE FLOOD HAZARD)

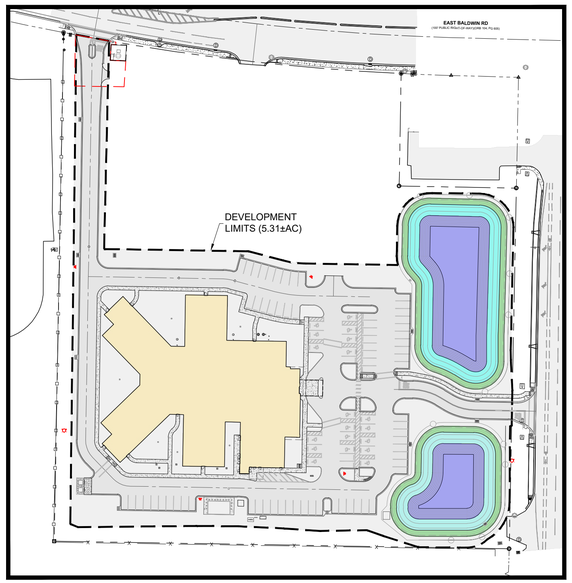
BULK REGULATIONS

ITEM	REQUIRED	PROVIDED
BUILDING SETBACKS:		
FRONT	10'	10'
SIDE	0' (10' ABUTTING ST.)	0' S. - 10' N.
REAR	0'	0'
LANDSCAPE BUFFERS: BALDWIN / HWY 77 10' BUFFER COM / PI 10' ~ COM / COM 10'		
BLDG. HEIGHT - FEET (MAX.)	50'	XX'
DENSITY ~ DU/AC (MAX.)	N/A	N/A
IMPERVIOUS ~ ISR (MAX.)	85% MAX.	33%
INTENSITY ~ FAR (MAX.)	100% MAX.	11%
OPEN SPACE ~ OSR (MIN.)	20% (OGA)	78%
PARKING TOTAL	89	90
STANDARD PARKING	85	71
ADA PARKING	4	19
GARAGES	N/A	N/A
LOADING SPACE	N/A	N/A
ITE CODE:		

PARKING CRITERIA: REHABILITATION FACILITY (39,300±SF)
CONVALESCENT & NURSING HOMES ~ 1 SPACE/4 BEDS (40) 1 SPACE/500 SF GFA
(BICYCLE 0.05 PER REQ. PARKING SPACE 5 REQ.)

SITE NOTES:

1. ABOVE GROUND STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL TRAFFIC STRIPING TO BE THERMOPLASTIC PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. (WAIT MINIMUM OF 30 DAYS AFTER ASPHALT CONCRETE PLACEMENT TO PLACE PERMANENT THERMOPLASTIC MARKING. TEMPORARY STRIPING TO BE PAINTED STOP BAR ONLY.)
3. ALL DISTURBED AREAS SHALL BE GRASSED UNLESS OTHERWISE NOTED. HYDROSEED SLOPES 4:1 & FLATTER, SOD SLOPES STEEPER THAN 4:1. ALL SOD TO BE STAGGERED & PINNED.
4. PLACE SOD ALONG EDGES OF NEW CURB AND PAVEMENT (30" MIN. WIDTH).
5. NO DAYTIME LANE CLOSURES ALLOWED.
6. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
7. FOR MAINTENANCE OF TRAFFIC CONTROL THROUGH WORK ZONES, REFER TO FDOT STD. PLANS INDEX 102-612 & 102-613 AS APPLICABLE.
8. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH FDOT CRITERIA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
9. ALL REGULATORY TRAFFIC SIGNAGE TO BE INSTALLED PER FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
10. THERE SHALL NOT BE ANY OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS.
11. THERE SHALL NOT BE ANY ABOVE GROUND FUEL OR GAS CONTAINERS.



DEVELOPMENT AREA

0' 50' 100' 200'

SCALE: 1" = 100'

LEGEND

- PROPOSED DEVELOPMENT LIMITS
- PROPOSED MANHOLE (SANITARY OR STORM)
- CLEANOUT
- EXISTING MANHOLE (SANITARY OR STORM)
- PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- EXISTING GUY ANCHOR
- EXISTING POWER POLE
- SIGN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- HANDICAP PARKING
- R/W RIGHT OF WAY
- ℄ CENTERLINE
- UNO UNLESS NOTED OTHERWISE
- DWS DETECTABLE WARNING SURFACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE
- DETECTABLE WARNING SURFACE (DWS)

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

OVERALL SITE PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 2

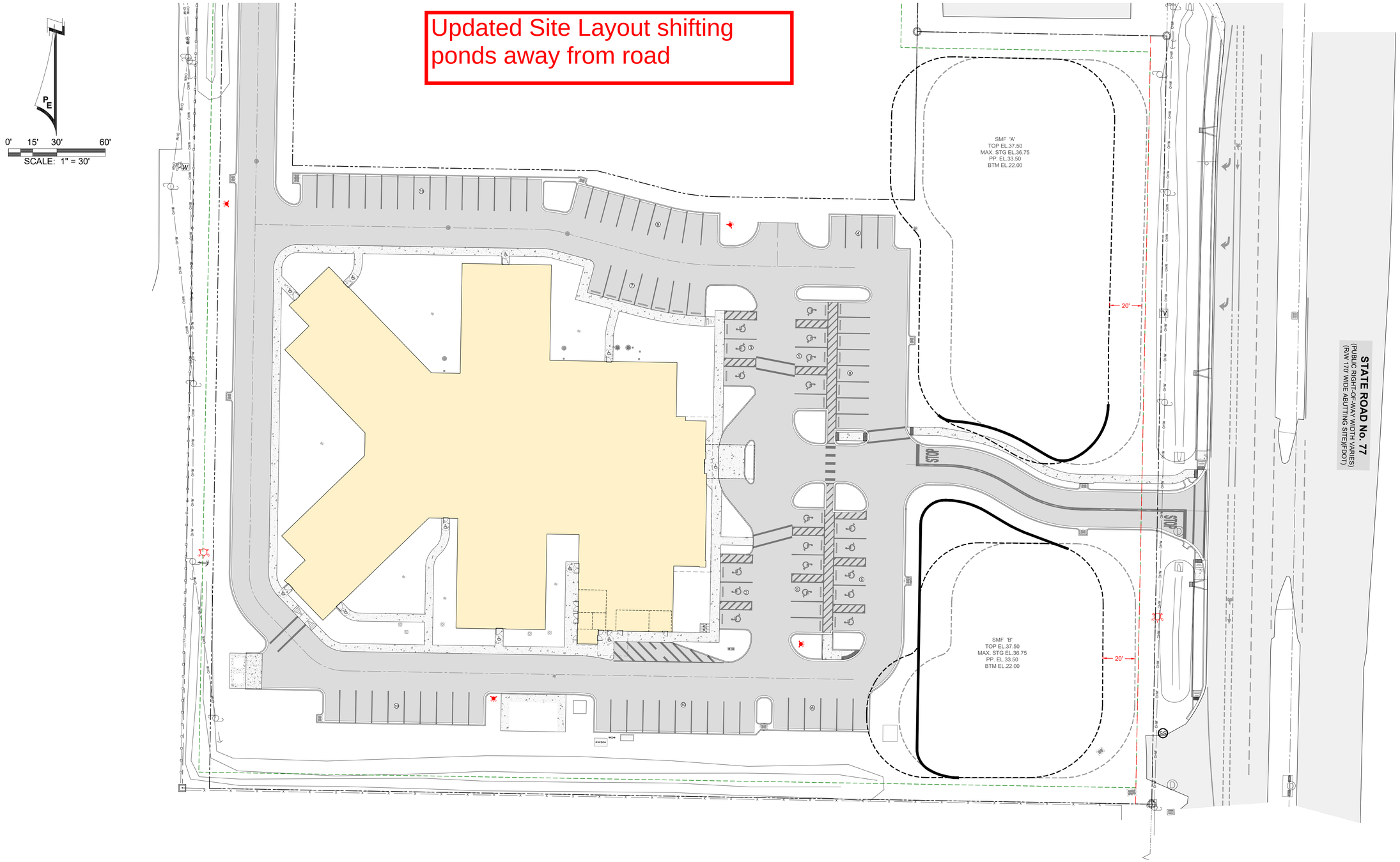
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 OVERALL SITE PLAN Sheet 2

Date: 2/5/2026, 1:52 PM File: p:\1915.01 xxx\fl rehab\lynn haven\1 civil\default\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG


Updated Site Layout shifting ponds away from road

REV	DATE	BY	REVISIONS
NOT		RELEASED FOR CONSTRUCTION BY:	DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-Ex1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

SITE LAYOUT EXHIBIT
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 13-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER
1 of 1

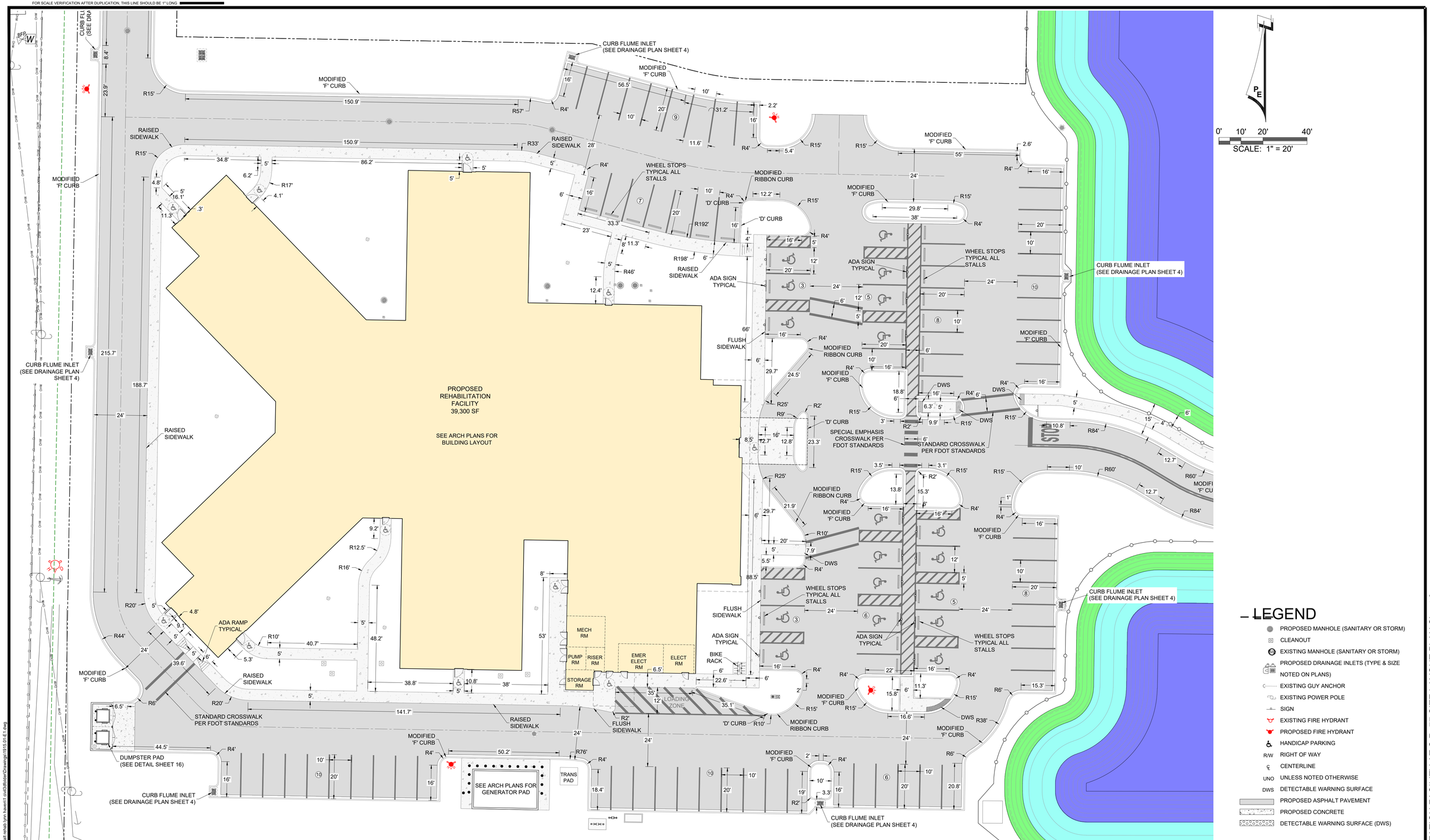
PROJECT NUMBER
1915.01

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

Date: 2/13/2026 8:23 AM File: p:\1915.01 exalt rehab lynn haven\1 civil3dfolder\Drawings\1915.01-Ex1.dwg

1915.01 REHABILITATION FACILITY AT S.R. 77 SITE LAYOUT EXHIBIT Sheet 1 of 1

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



LEGEND

- PROPOSED MANHOLE (SANITARY OR STORM)
- CLEANOUT
- EXISTING MANHOLE (SANITARY OR STORM)
- PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- EXISTING GUY ANCHOR
- EXISTING POWER POLE
- SIGN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- HANDICAP PARKING
- R/W RIGHT OF WAY
- ℄ CENTERLINE
- UNO UNLESS NOTED OTHERWISE
- DWS DETECTABLE WARNING SURFACE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE
- DETECTABLE WARNING SURFACE (DWS)

REV	DATE	BY	REVISIONS
NOT		RELEASED FOR CONSTRUCTION BY:	DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

SITE LAYOUT PLAN REHABILITATION FACILITY AT S.R. 77

LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 3

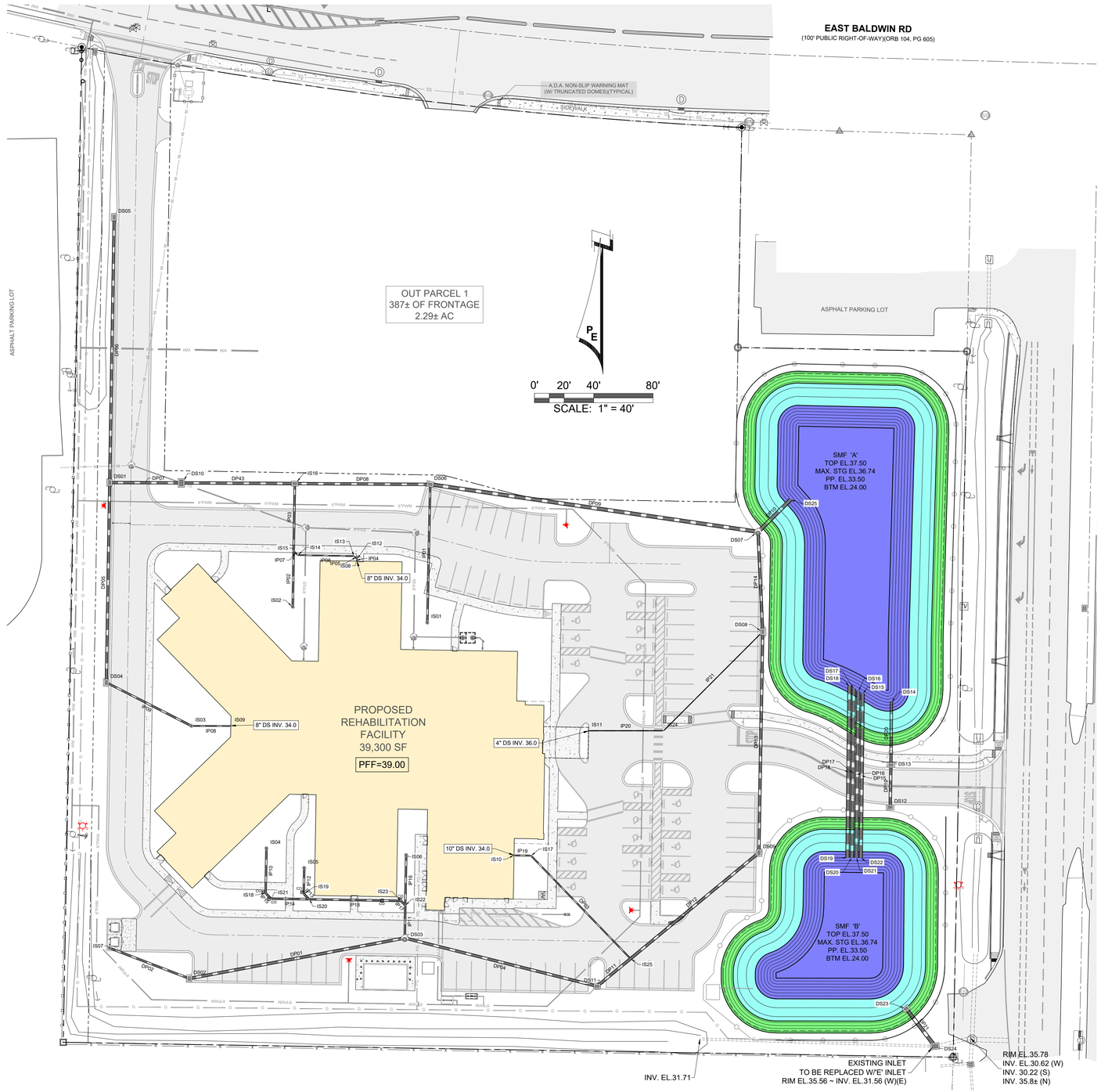
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 SITE LAYOUT PLAN Sheet 3

Date: 2/5/2026 1:52 PM File: p:\1915.01 exalt rehab lynn haven\1 civil\3dfolder\Drawings\1915.01-E1.dwg

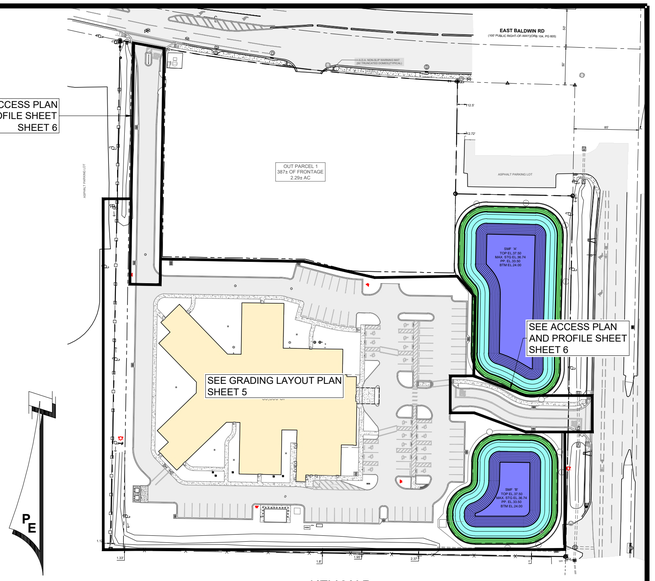
© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



LEGEND

- PROPOSED MANHOLE (SANITARY OR STORM)
- PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- PROPOSED STORM PIPE
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE
- FM — EXISTING FORCE MAIN (SIZE AS NOTED)
- G — EXISTING GAS LINE (SIZE AS NOTED)
- WM — EXISTING WATER MAIN
- SS — EXISTING SANITARY SEWER
- 8" PSS — PROPOSE SANITARY SEWER
- 6" PWM — PROPOSE WATER MAIN
- DS-01 STORM DRAINAGE STRUCTURE i.e. #1
- DP-01 STORM DRAINAGE PIPE i.e. #1
- IS-01 INLINE DRAINAGE STRUCTURE & FIXTURE i.e. #1
- IP-01 INLINE DRAINAGE PIPE i.e. #1
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- SHGW (ESTIMATED) SEASONAL HIGH GROUND WATER



DRAINAGE STRUCTURE TABLE			
NO.	STRUCTURE TYPE	TOP ELEV	PIPE INVERTS
DS01	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.75'	(S) 31.69' (DP05) (N) 31.69' (DP06) (E) 31.69' (DP07)
DS02	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.75'	(E) 32.69' (DP01) (W) 32.69' (DP02)
DS03	48" Dia MH with 36" Frame	38.14'	(W) 31.95' (DP01) (N) 31.95' (IP11) (E) 31.95' (DP04)
DS04	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	37.00'	(N) 32.37' (DP05) (SE) 32.37' (IP09)
DS05	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	37.00'	(S) 32.59' (DP06)
DS06	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.75'	(S) 33.54' (IP01) (W) 30.61' (DP08) (E) 30.61' (DP09)
DS07	48" Dia MH with 36" Frame	37.49'	(W) 29.50' (DP09) (NE) 29.50' (DP10) (S) 29.50' (DP14)
DS08	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.75'	(SW) 32.25' (IP21) (S) 29.83' (DP13) (N) 29.83' (DP14)
DS09	FDOT FY 2026-27 Std Index 425-052 Type C Inlet w/round Btm	36.75'	(SW) 30.58' (DP12) (N) 30.58' (DP13)
DS10	FDOT FY 2026-27 Std Index 425-052 Type E Inlet conflict box	37.54'	(W) 31.45' (DP07) (E) 31.45' (DP43)
DS11	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.75'	(NE) 31.29' (DP11) (W) 31.29' (DP04)
DS12	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.80'	(N) -4.71' (DP19)
DS13	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.85'	(S) -4.99' (DP19) (N) -5.09' (DP20)
DS14	OPEN END PIPE	30.80'	(S) 29.00' (DP20)
DS16	OPEN END PIPE	31.38'	(S) 29.00' (DP16)
DS17	OPEN END PIPE	31.38'	(S) 29.00' (DP17)
DS18	OPEN END PIPE	31.38'	(S) 29.00' (DP18)
DS19	OPEN END PIPE	31.38'	(N) 29.00' (DP18)
DS20	OPEN END PIPE	31.38'	(N) 29.00' (DP17)
DS21	OPEN END PIPE	31.38'	(N) 29.00' (DP16)
DS22	OPEN END PIPE	31.38'	(N) 29.00' (DP15)
DS23	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	36.50'	(SE) 31.71' (DP21)
DS24	FDOT FY 2026-27 Std Index 425-052 Type E Inlet	35.58'	(NW) 31.56' (DP21)
DS25	OPEN END PIPE	31.38'	(SW) 29.34' (DP10)

DRAINAGE PIPE TABLE					
NO.	SIZE	DESCRIPTION	LF	SLOPE	INVERTS
DP01	18"	ADS HP	148'	0.50%	DS02 = 32.69' DS03 = 31.95'
DP02	12"	Pipe Culvert SD	58'	-0.50%	DS02 = 32.69' IS07 = 32.98'
DP03	10"	PVC Pipe	97'	0.50%	IS17 = 31.62' IS25 = 31.14'
DP04	18"	ADS HP	134'	-0.50%	DS11 = 31.29' DS03 = 31.95'
DP05	18"	ADS HP	135'	0.50%	DS04 = 32.37' DS01 = 31.69'
DP06	18"	ADS HP	179'	0.50%	DS05 = 32.59' DS01 = 31.69'
DP07	18"	ADS HP	48'	0.50%	DS01 = 31.69' DS10 = 31.45'
DP08	18"	ADS HP	91'	0.50%	IS16 = 31.07' DS06 = 30.61'
DP09	24"	ADS HP	224'	0.50%	DS06 = 30.61' DS07 = 29.50'
DP10	24"	ADS HP	31'	0.50%	DS07 = 29.50' DS25 = 29.34'
DP11	18"	ADS HP	29'	0.50%	DS11 = 31.29' IS25 = 31.14'
DP12	18"	ADS HP	112'	0.50%	IS25 = 31.14' DS09 = 30.58'
DP13	18"	ADS HP	149'	0.50%	DS09 = 30.58' DS08 = 29.83'
DP14	18"	ADS HP	67'	0.50%	DS08 = 29.83' DS07 = 29.50'
DP15	24"	ADS HP	111'	0.00%	DS22 = 29.00' DS15 = 29.00'
DP16	24"	ADS HP	112'	0.00%	DS21 = 29.00' DS16 = 29.00'
DP17	24"	ADS HP	114'	0.00%	DS20 = 29.00' DS17 = 29.00'
DP18	24"	ADS HP	116'	0.00%	DS19 = 29.00' DS18 = 29.00'
DP19	18"	ADS HP	28'	1.00%	DS12 = -4.71' DS13 = -4.99'
DP20	18"	ADS HP	43'	-79.83%	DS13 = -5.09' DS14 = 29.00'
DP21	24"	ADS HP	29'	0.50%	DS23 = 31.71' DS24 = 31.56'

DRAINAGE STRUCTURE TABLE (INLINE)			
NO.	STRUCTURE TYPE	TOP ELEV	PIPE INVERTS
IS01	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.00'	(N) 34.00' (IP01)
IS02	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.00'	(N) 34.00' (IP02)
IS03	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.00'	(E) 32.69' (IP08) (NW) 32.69' (IP09)
IS04	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.00'	(S) 32.70' (IP10)
IS05	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.00'	(S) 34.00' (IP12)
IS06	ADS INLINE DRAIN (18" GRATE X 12" PVC)	38.25'	(S) 34.00' (IP16)
IS08	DOWNSPOUT CONNECTION	34.73'	(N) 34.00' (IP04)
IS09	DOWNSPOUT CONNECTION	34.73'	(W) 32.82' (IP08)
IS10	DOWNSPOUT CONNECTION	34.90'	(E) 31.68' (IP19)
IS11	DOWNSPOUT CONNECTION	-2.98'	(E) -3.35' (IP20)
IS12	8" 45° BEND	34.72'	(S) 34.00' (IP04) (NW) 34.00' (IP05)
IS13	8" 45° BEND	34.71'	(SE) 33.99' (IP05) (W) 33.99' (IP06)
IS14	8" 45° BEND	34.60'	(E) 33.87' (IP06) (NW) 33.87' (IP07)
IS15	12"X8" WYE	35.09'	(S) 33.86' (IP02) (N) 33.86' (IP03) (SE) 33.86' (IP07)
IS16	FDOT FY 2026-27 Std Index 425-052 Type C Inlet	38.02'	(S) 33.63' (IP03) (W) 31.07' (DP43) (E) 31.07' (DP08)
IS17	18"X12"X18" TEE	34.96'	(W) 31.62' (IP19) (SE) 31.62' (DP03)
IS18	12" WYE	35.08'	(N) 32.55' (IP10) (SE) 32.55' (IP15)
IS19	12" 45° BEND	35.00'	(N) 33.76' (IP12) (SE) 33.76' (IP13)
IS20	12" WYE	34.93'	(NW) 33.70' (IP13) (W) 32.40' (IP14) (E) 32.40' (IP18)
IS21	12" 45° BEND	35.06'	(E) 32.52' (IP14) (NW) 32.52' (IP15)
IS22	12" 45° BEND	34.60'	(NW) 32.06' (IP17) (N) 32.05' (IP16) (S) 32.06' (IP11)
IS23	12" 45° BEND	34.62'	(SE) 32.09' (IP17) (W) 32.09' (IP18)
IS24	4" 45° BEND	-3.49'	(W) -3.86' (IP20) (NE) -3.96' (IP21)
IS25	12"X18" WYE	34.97'	(SW) 31.14' (DP11) (NW) 31.14' (DP03) (NE) 31.14' (DP12)

DRAINAGE PIPE TABLE (INLINE)					
NO.	SIZE	DESCRIPTION	LF	SLOPE	INVERTS
IP01	12"	ADS HP	93'	0.49%	IS01 = 34.00' DS06 = 33.54'
IP02	12"	ADS HP	38'	0.37%	IS02 = 34.00' IS15 = 33.86'
IP03	12"	ADS HP	45'	0.50%	IS15 = 33.86' IS16 = 33.63'
IP04	8"	PVC Pipe	2'	0.30%	IS08 = 34.00' IS12 = 34.00'
IP05	8"	PVC Pipe	3'	0.30%	IS12 = 34.00' IS13 = 33.99'
IP06	8"	PVC Pipe	38'	0.30%	IS13 = 33.99' IS14 = 33.87'
IP07	8"	PVC Pipe	4'	0.30%	IS14 = 33.87' IS15 = 33.86'
IP08	8"	PVC Pipe	27'	0.50%	IS09 = 32.82' IS03 = 32.69'
IP09	12"	ADS HP	64'	0.50%	IS03 = 32.69' DS04 = 32.37'
IP10	12"	ADS HP	30'	0.50%	IS04 = 32.70' IS18 = 32.55'
IP11	12"	ADS HP	22'	0.50%	IS22 = 32.06' DS03 = 31.95'
IP12	12"	ADS HP	17'	1.35%	IS05 = 34.00' IS19 = 33.76'
IP13	12"	ADS HP	5'	1.35%	IS19 = 33.76' IS20 = 33.70'
IP14	12"	ADS HP	26'	-0.50%	IS20 = 32.40' IS21 = 32.52'
IP15	12"	ADS HP	5'	-0.50%	IS21 = 32.52' IS18 = 32.55'
IP16	12"	ADS HP	34'	5.76%	IS06 = 34.00' IS22 = 32.05'
IP17	12"	ADS HP	4'	-0.50%	IS22 = 32.06' IS23 = 32.09'
IP18	12"	ADS HP	62'	-0.50%	IS23 = 32.09' IS20 = 32.40'
IP19	10"	PVC Pipe	11'	0.50%	IS10 = 31.68' IS17 = 31.62'
IP20	4"	PVC Pipe	51'	1.00%	IS11 = -3.35' IS24 = -3.86'
IP21	4"	PVC Pipe	94'	-38.34%	IS24 = -3.96' DS08 = 32.25'

DRAINAGE STRUCTURE NOTES:

1. "C" and "E" INLETS PER FDOT STD. PLANS INDEX 425-052
2. ALL STORM STRUCTURES TO HAVE 1ft. SUMPS.
3. CONTRACTOR MAY UTILIZE ADS HP STORM PIPE WHERE COVER EXCEEDS MANUFACTURER'S MINIMUM CRITERIA FOR COVER AND FLOTATION RESISTANCE.

REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

DRAINAGE LAYOUT PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethn B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 4

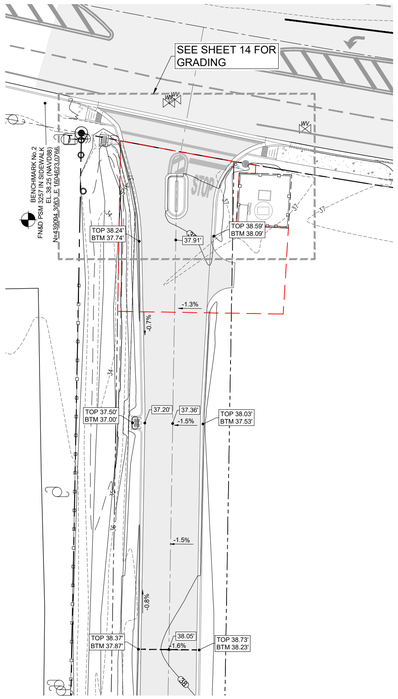
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 DRAINAGE LAYOUT PLAN Sheet 4

Date: 2/5/2026 1:52 PM File: p:\1915\01 exalt rehab\lynn haven\1 civil\dwg\dwg\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG





GRADING NOTES:

1. ABOVE & BELOW GROUND STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL DISTURBED AREA SHALL BE GRASSED. HYDROSEED @ 4:1 & FLATTER, SOD @ STEEPER THAN 4:1. ALL SOD TO BE STAGGERED & PINNED.
3. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

LEGEND

X.XX	PROPOSED FINISH GRADE
+12.50	EXISTING SPOT ELEVATION
24	PROPOSED GRADE CONTOUR
24	EXISTING GRADE CONTOUR
	STORMWATER FLOW ARROW
	GRADE BREAK
	PROPOSED MANHOLE (SANITARY OR STORM)
	PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
	PROPOSED STORM PIPE
S	EXISTING SANITARY MANHOLE
D	EXISTING STORM DRAIN MANHOLE
FM	EXISTING FORCE MAIN (SIZE AS NOTED)
G	EXISTING GAS LINE (SIZE AS NOTED)
OHU	EXISTING OVERHEAD UTILITIES
UGU	EXISTING UNDERGROUND UTILITIES
FO	EXISTING FIBER OPTIC CABLE
WM	EXISTING WATER MAIN
RU	EXISTING REUSE MAIN
SS	EXISTING SANITARY SEWER
DS-1	STORM DRAIN STRUCTURE i.e. #1
DP-1	STORM DRAIN PIPE i.e. #1
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
SHGW	(ESTIMATED) SEASONAL HIGH GROUND WATER

REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

GRADING LAYOUT PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethn B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 5

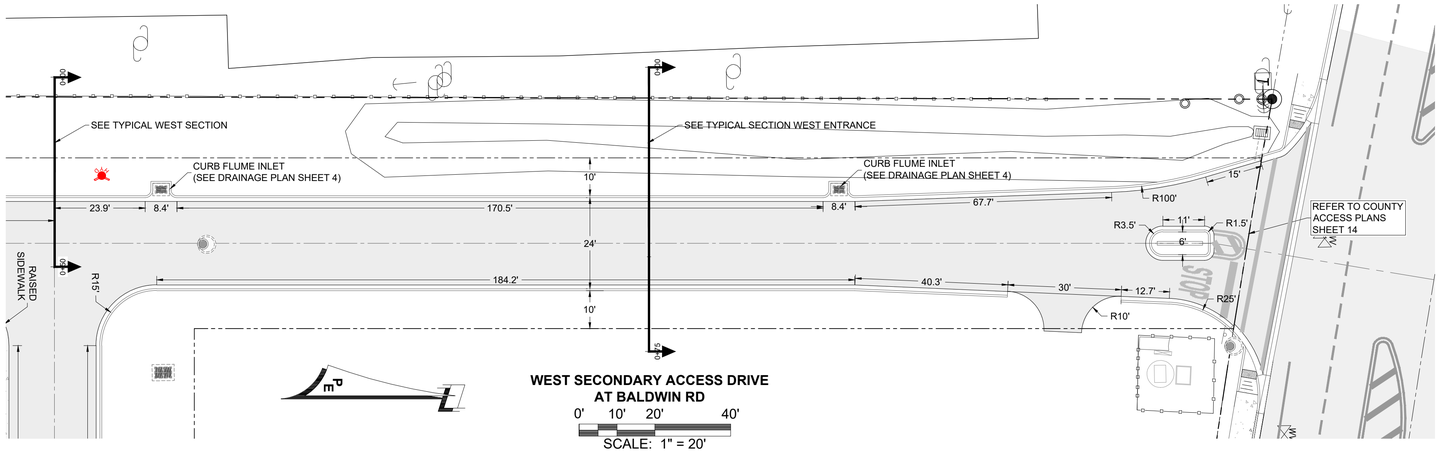
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 GRADING LAYOUT PLAN Sheet 5

Date: 2/5/2026 1:52 PM File: p:\1915.01 exalt rehab lynn haven\1 civil\dwfiles\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

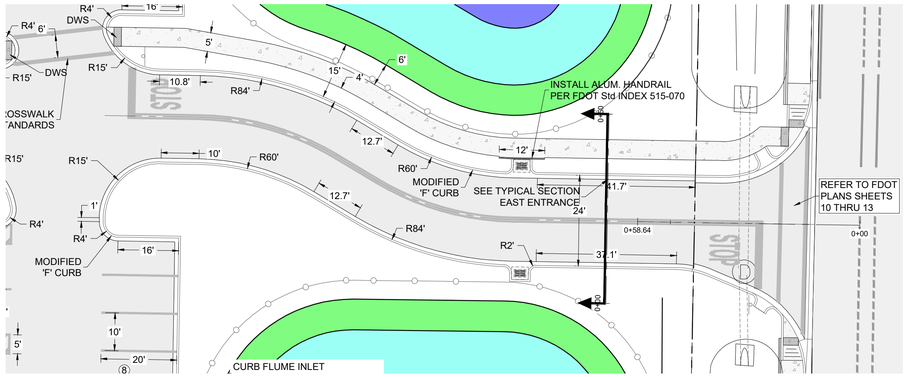
FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



WEST SECONDARY ACCESS DRIVE
AT BALDWIN RD

0' 10' 20' 40'

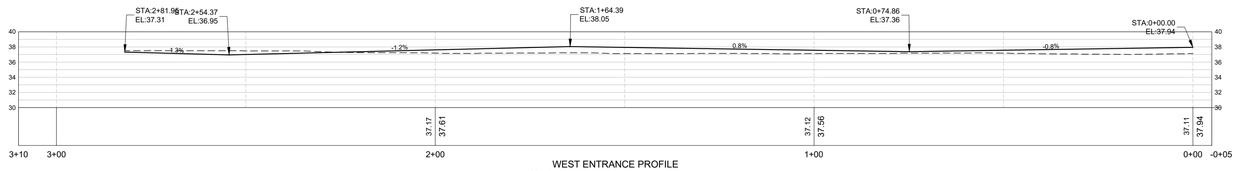
SCALE: 1" = 20'



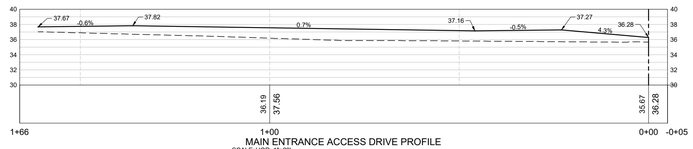
MAIN ENTRANCE ACCESS DRIVE
AT HWY 77

0' 10' 20' 40'

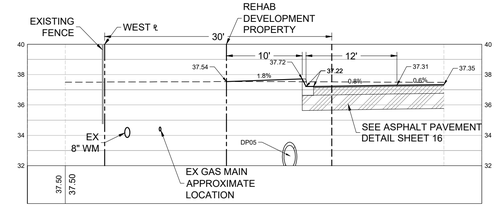
SCALE: 1" = 20'



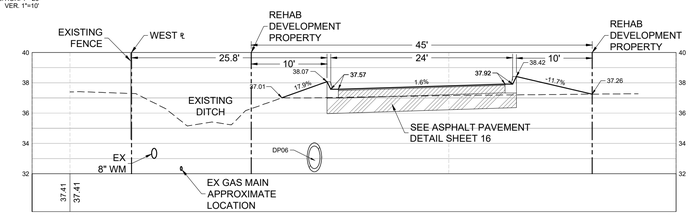
WEST ENTRANCE PROFILE
SCALE: HOR. 1"=20'
VER. 1"=10'



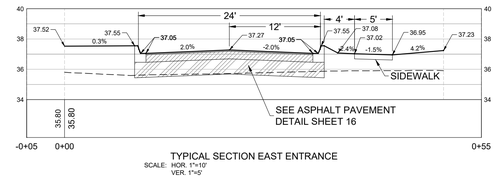
MAIN ENTRANCE ACCESS DRIVE PROFILE
SCALE: HOR. 1"=20'
VER. 1"=10'



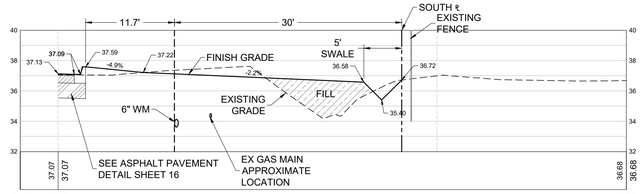
TYPICAL WEST SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'



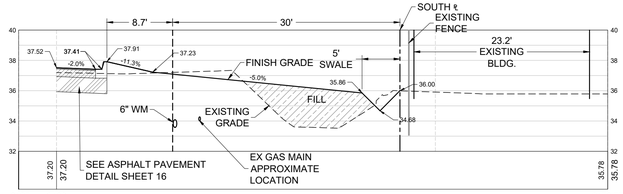
TYPICAL SECTION WEST ENTRANCE
SCALE: HOR. 1"=10'
VER. 1"=5'



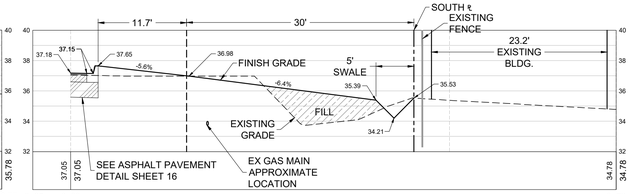
TYPICAL SECTION EAST ENTRANCE
SCALE: HOR. 1"=10'
VER. 1"=5'



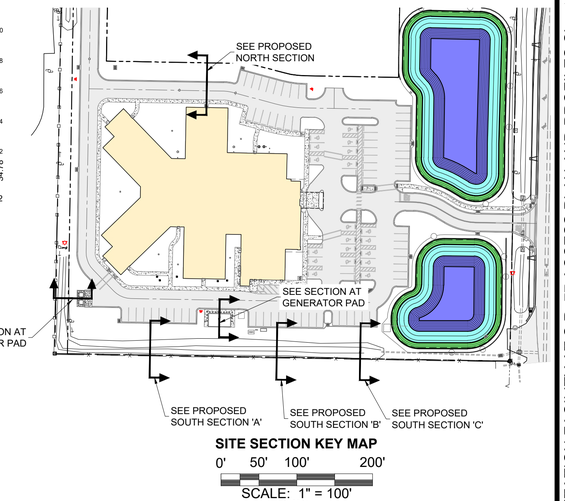
PROPOSED SOUTH SECTION 'A'
SCALE: HOR. 1"=10'
VER. 1"=5'



PROPOSED SOUTH SECTION 'B'
SCALE: HOR. 1"=10'
VER. 1"=5'



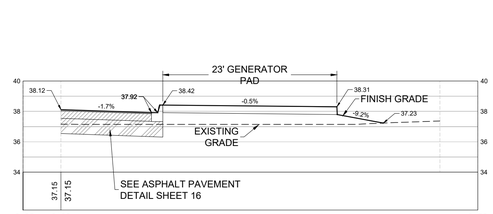
PROPOSED SOUTH SECTION 'C'
SCALE: HOR. 1"=10'
VER. 1"=5'



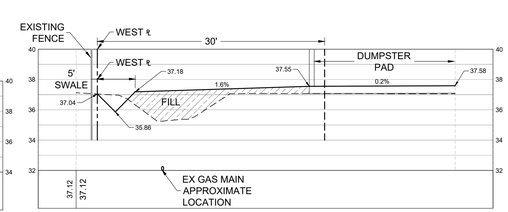
SITE SECTION KEY MAP

0' 50' 100' 200'

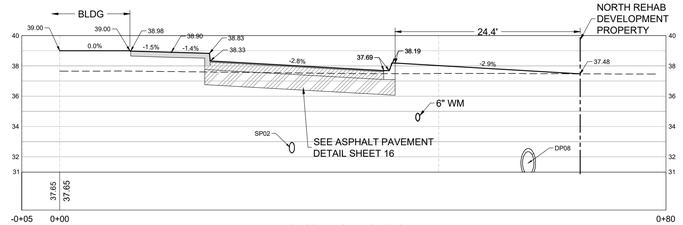
SCALE: 1" = 100'



SECTION AT GENERATOR PAD
SCALE: HOR. 1"=10'
VER. 1"=5'



SECTION AT DUMPSTER PAD
SCALE: HOR. 1"=10'
VER. 1"=5'



PROPOSED NORTH SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'

REV	DATE	BY	REVISIONS
NOT	RELEASED FOR CONSTRUCTION BY:	DATE:	

SCALE:	AS NOTED
DESIGNED BY:	JHS
DRAWN BY:	REF
REVIEWED BY:	JHS
ISSUE DATE:	DECEMBER 2025
ACAD FILE NAME:	1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

ACCESS PLAN AND PROFILES
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

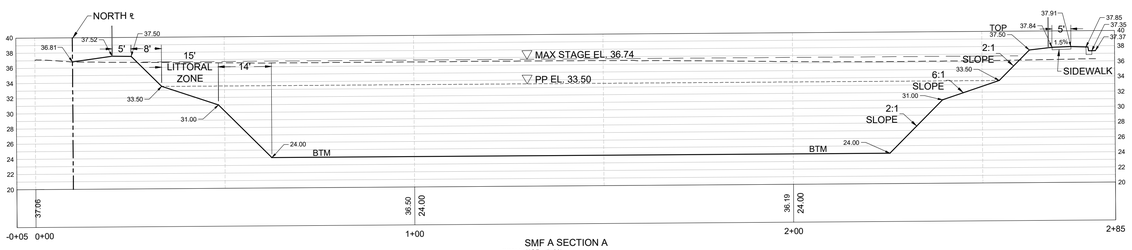
SHEET NUMBER
6

PROJECT NUMBER
1915.01

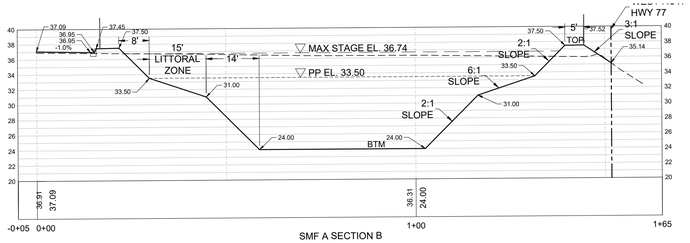
1915.01 REHABILITATION FACILITY AT S.R. 77 ACCESS PLAN AND PROFILES Sheet 6

Date: 2/2/2026 1:52 PM File: p:\1915.01 exalt rehab lynn haven\1 civil\3d\dwt\Drawings\1915.01-E1.dwg

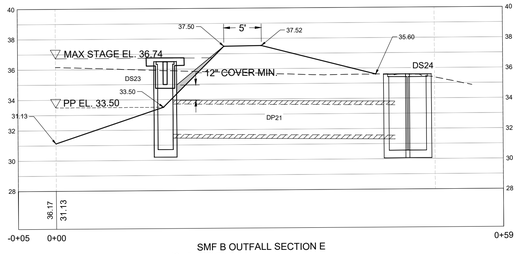
© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.



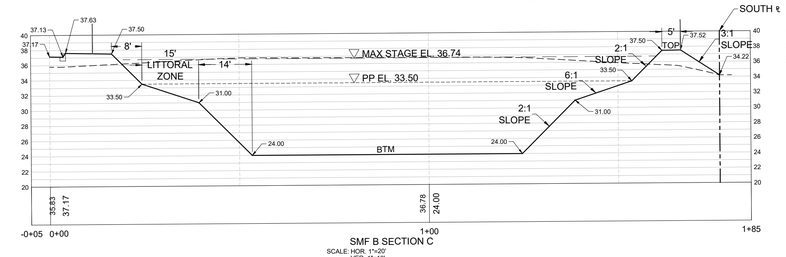
SMF A SECTION A
SCALE: HOR. 1"=20'
VER. 1"=10'



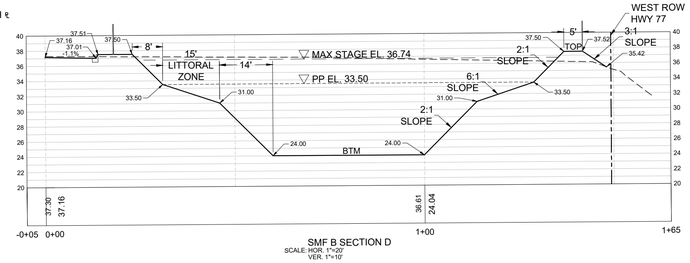
SMF A SECTION B
SCALE: HOR. 1"=20'
VER. 1"=10'



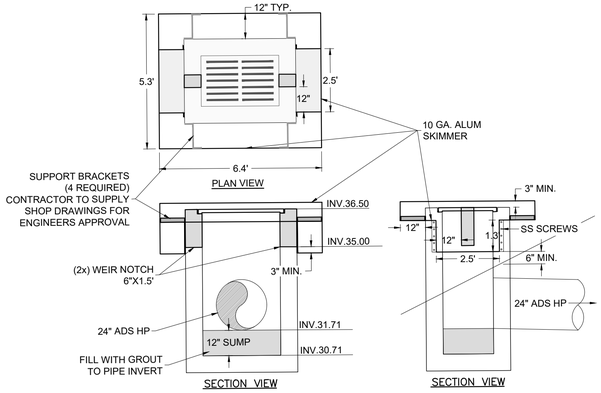
SMF B OUTFALL SECTION E
SCALE: HOR. 1"=10'
VER. 1"=5'



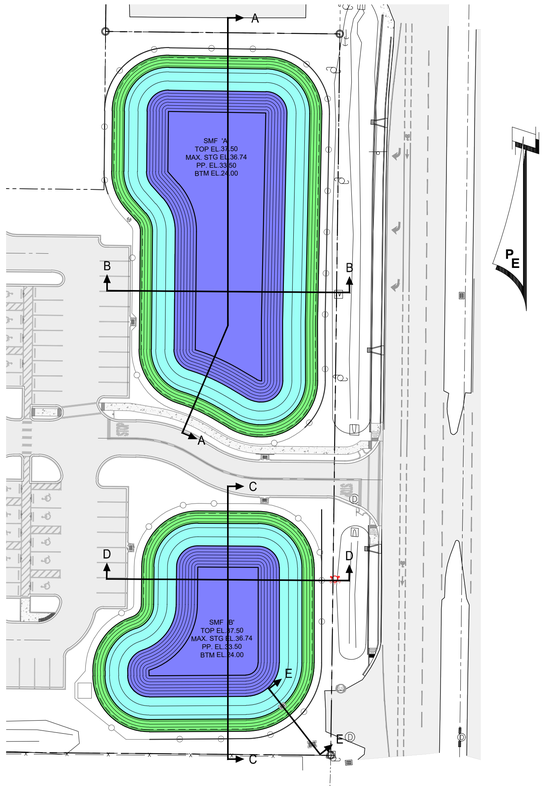
SMF B SECTION C
SCALE: HOR. 1"=20'
VER. 1"=10'



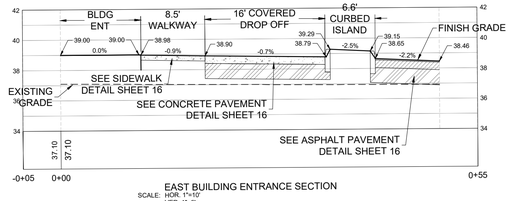
SMF B SECTION D
SCALE: HOR. 1"=20'
VER. 1"=10'



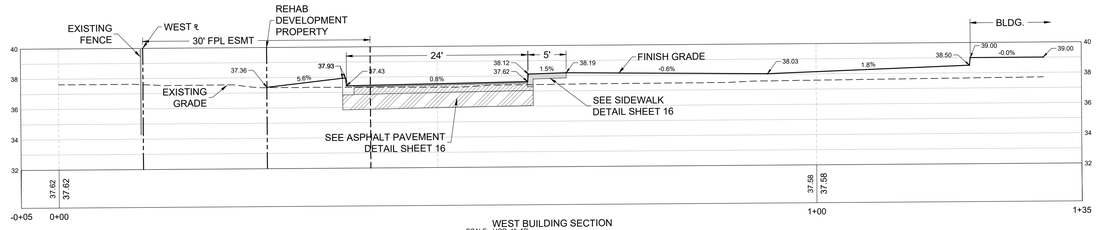
DS23 TYPE 'C' OUTFALL WITH SKIMMER
NOT TO SCALE



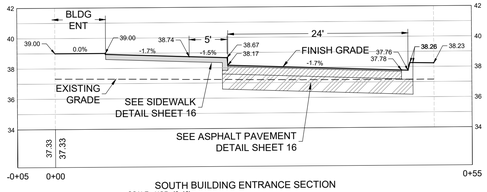
SMF SECTION KEY MAP
0' 25' 50' 100'
SCALE: 1" = 50'



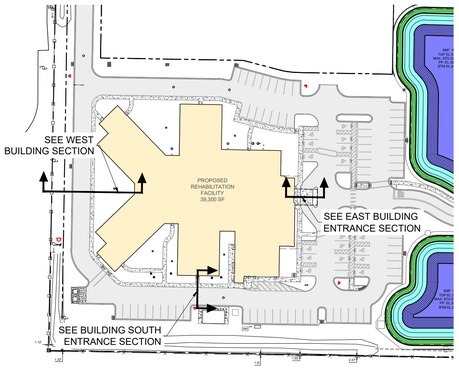
EAST BUILDING ENTRANCE SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'



WEST BUILDING SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'



SOUTH BUILDING ENTRANCE SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'



SITE SECTION KEY MAP
0' 50' 100' 200'
SCALE: 1" = 100'

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

STORMWATER MANAGEMENT DETAILS
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

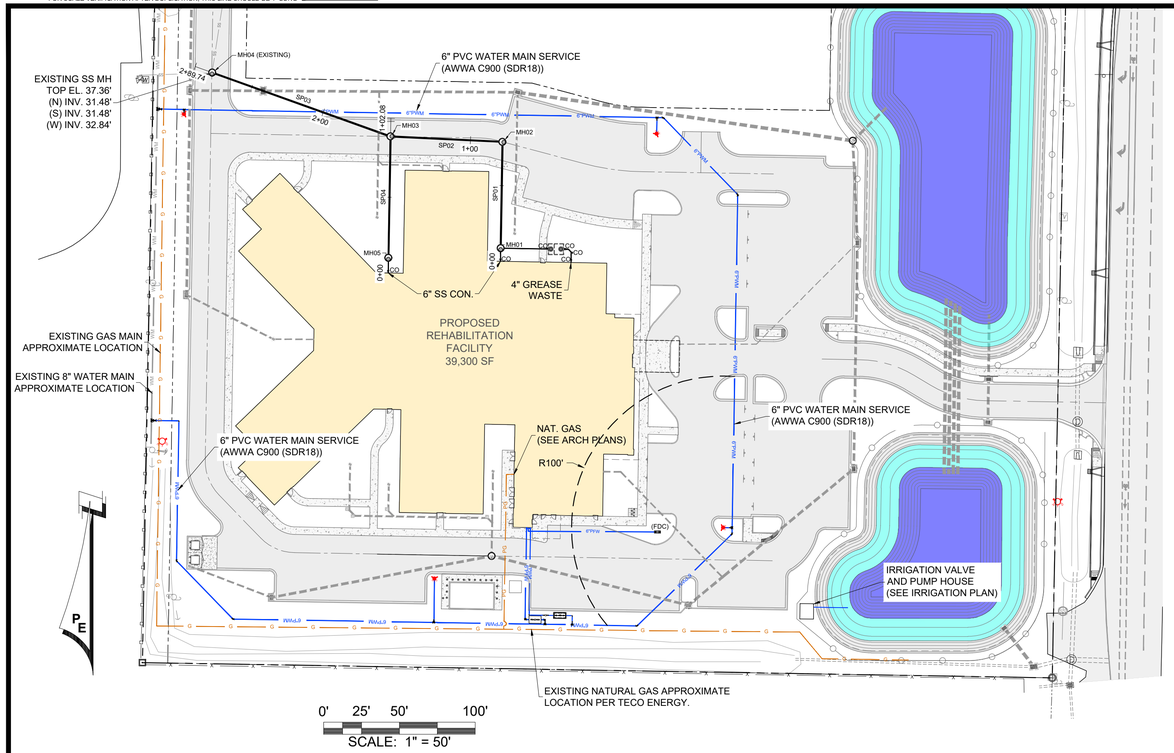
SHEET NUMBER 7
PROJECT NUMBER 1915.01

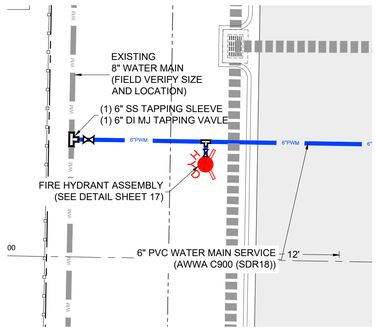
1915.01 REHABILITATION FACILITY AT S.R. 77 STORMWATER MANAGEMENT DETAILS Sheet 7

Date: 2/5/2026 1:53 PM File: p:\1915.01 swelt rehab\cmx hazard t est\Sheet\Drawings\1915.01-E1.dwg

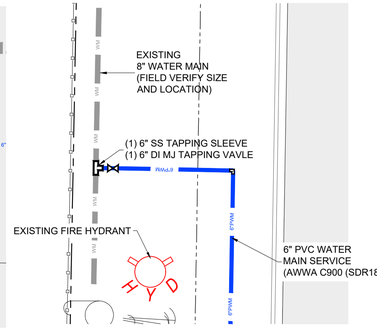
© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

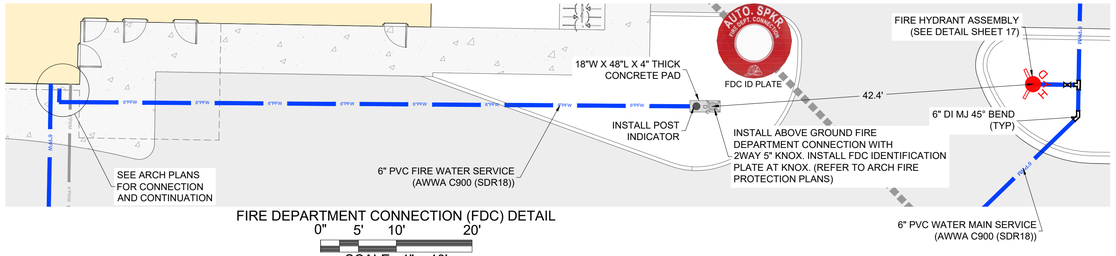




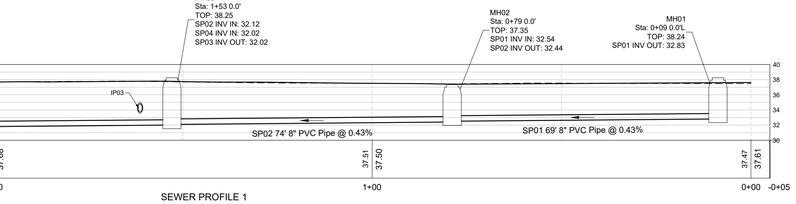
WATER MAIN NORTH CONNECTION DETAIL
0" 5' 10' 20'
SCALE: 1" = 10'



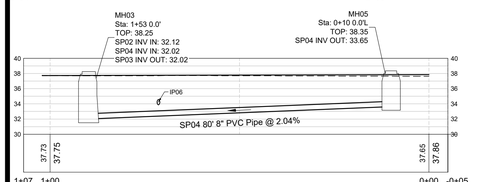
WATER MAIN SOUTH CONNECTION DETAIL
0" 5' 10' 20'
SCALE: 1" = 10'



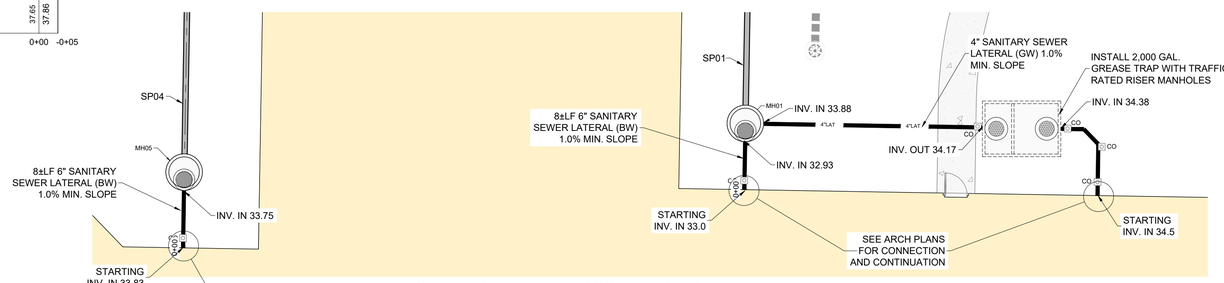
FIRE DEPARTMENT CONNECTION (FDC) DETAIL
0" 5' 10' 20'
SCALE: 1" = 10'



SEWER PROFILE 1
SCALE: HOR. 1"=20'
VER. 1"=10'



SEWER PROFILE 2
SCALE: HOR. 1"=20'
VER. 1"=10'



GRAY AND BLACK WATER CONNECTION DETAIL
0" 5' 10' 20'
SCALE: 1" = 10'

DOMESTIC AND FIREWATER SERVICE CONNECTION DETAIL
0" 5' 10' 20'
SCALE: 1" = 10'

LEGEND

- FM —— PROPOSED FORCE MAIN (SIZE AS NOTED)
- G —— PROPOSED GAS LINE (SIZE AS NOTED)
- OHU —— PROPOSED OVERHEAD UTILITIES
- WM —— PROPOSED WATER MAIN (SIZE AS NOTED)
- RU —— PROPOSED REUSE MAIN (SIZE AS NOTED)
- SS —— PROPOSED SANITARY SEWER (SIZE AS NOTED)
- FIRE —— PROPOSED FIRE MAIN (SIZE AS NOTED)
- PROPOSED VALVE
- PROPOSED WATER METER BOXES
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE (SANITARY OR STORM)
- PROPOSED CLEANOUT
- PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- PROPOSED STORM PIPE
- EXISTING FIRE HYDRANT
- EXISTING VALVE
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE
- FM ····· EXISTING FORCE MAIN (SIZE AS NOTED)
- G ····· EXISTING GAS LINE (SIZE AS NOTED)
- OHU ····· EXISTING OVERHEAD UTILITIES
- UGU ····· EXISTING UNDERGROUND UTILITIES
- FO ····· EXISTING FIBER OPTIC CABLE
- WM ····· EXISTING WATER MAIN (SIZE AS NOTED)
- RU ····· REUSE MAIN (SIZE AS NOTED)
- SS ····· EXISTING SANITARY SEWER (SIZE AS NOTED)
- SS-1 SANITARY SEWER STRUCTURE i.e. #1
- SP-1 SANITARY SEWER PIPE i.e. #1

NOTES:
1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

UTILITY LAYOUT PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER
8

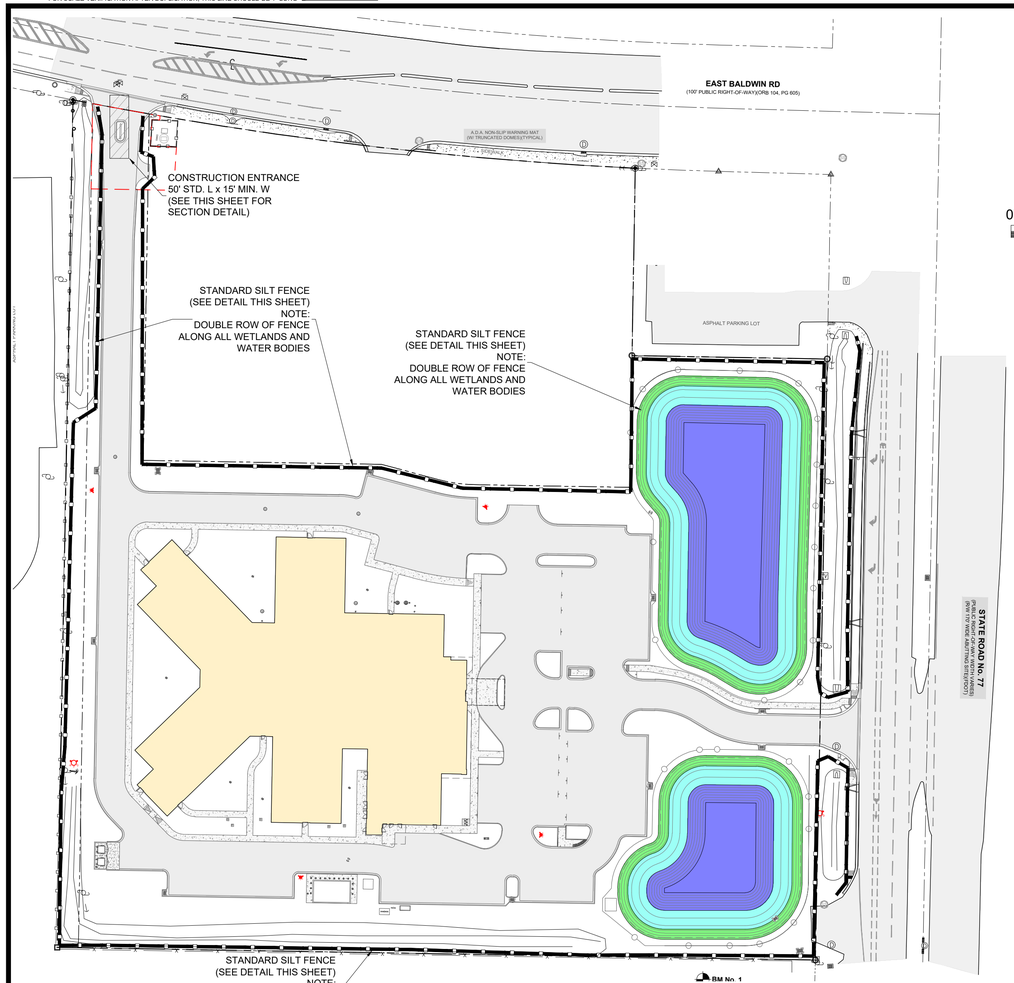
PROJECT NUMBER
1915.01

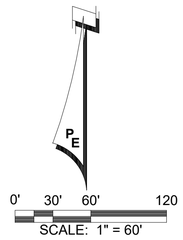
1915.01 REHABILITATION FACILITY AT S.R. 77 UTILITY LAYOUT PLAN Sheet 8

Date: 2/6/2026 1:53 PM File: p:\1915.01 exotic rehab lynn haven\1 civil\drafter\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG





ENVIRONMENTAL SEQUENCE

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCES AND HAY BALES, AS REQUIRED.
3. CONSTRUCT SEDIMENTATION BASIN.
4. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT POND LOCATION.
5. CONTINUE CLEARING AND GRUBBING.
6. STOCKPILE TOP SOIL IF REQUIRED.
7. PERFORM PRELIMINARY GRADING ONSITE, AS REQUIRED.
8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE.
9. INSTALL UTILITIES, STORM SEWER, CURBS AND GUTTER.
10. APPLY BASE TO PROJECT.
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
12. COMPLETE FINAL PAVING.
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS.
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

DEWATERING NOTES:

CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: KEVIN HARGETT, FDEP NW DIST. WASTEWATER SECTION. EMAIL: kevin.hargett@dep.state.us PHONE: 850.595.0687)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

"DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME I." IN ADDITION, DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

PRIOR TO COMMENCEMENT OF CONSTRUCTION DEWATERING ACTIVITIES ANALYTICAL TEST OF UNTREATED GROUNDWATER FOR THE PARAMETERS LISTED IN TABLE 4-1 MUST BE PERFORMED FOR EACH LOCATION.

IF THE ANALYTICAL TESTS ARE WITHIN THE SCREENING VALUES LISTED IN TABLE 4-1 DEWATERING OF THE SITE MAY BEGIN IMMEDIATELY. A SUMMARY REPORT DESCRIBING THE PROPOSED ACTIVITY AND A COPY OF THE TEST REPORT SHOULD BE SENT TO THE LOCAL FDEP OFFICE WITHIN ONE WEEK AFTER DISCHARGE BEGINS.

ADDITIVE SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO DISCHARGE.

THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

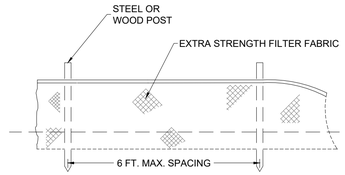
GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

A) A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.

B) VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED FROM THE PUMP.

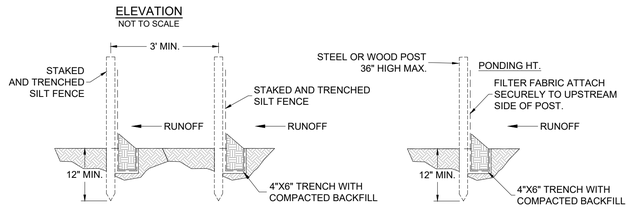
C) VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE PUMPS.

D) DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE.



NOTE:

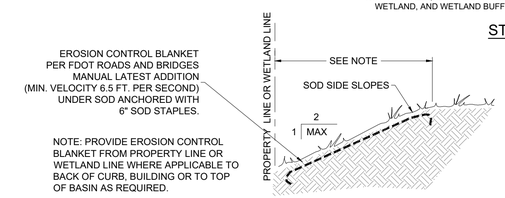
1. INSPECT AND REPAIR FENCE 24 HRS AFTER EACH STORM EVENT. REMOVE SEDIMENTS NO LATER THAN WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



DOUBLE ROW STAKED SILT FENCE DETAIL
NOT TO SCALE (REQUIRED AT ALL SHORELINE, WETLAND, AND WETLAND BUFFER AREAS)

SINGLE ROW STAKED SILT FENCE DETAIL
NOT TO SCALE

STANDARD SILT FENCE DETAIL
NOT TO SCALE

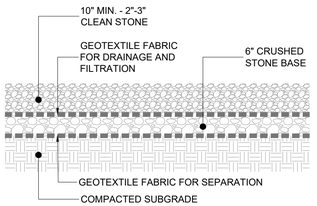


SLOPE STABILIZATION DETAIL
NOT TO SCALE

SLOPE STABILIZATION NOTES

FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.
1:3 TO 1:2 - SOD LAPPED AND PINNED.
1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD.
1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

NOTE:
AREAS NOT SODDED TO BE STABILIZED WITH HYDROSEEDING.
SEE SLOPE STABILIZATION DETAIL THIS SHEET



CONSTRUCTION ENTRANCE NOTES:

1. GRADE SLOPE TO SITE.
2. PROVIDE CULVERT AS REQUIRED TO CARRY PRE-EXISTING DITCH FLOW. (SEE EXISTING PLAN VIEW FOR LOCATION)
3. CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.
4. ALL MATERIALS SPILLED, DROPPED OR TRACKED ONTO PUBLIC ROADS (INCLUDING AGGREGATE STONE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY.

CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

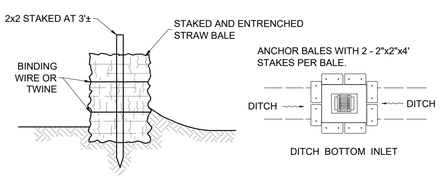
STANDARD EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
2. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
3. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-302 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
4. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

EROSION CONTROL NOTES:
ALL INLETS SHALL HAVE HAY BALES OR SILT FENCE AROUND THEIR PERIMETER.

SILT FENCE AND HAY BALES ARE REQUIRED IN ALL AREAS AS DIRECTED BY THE ENGINEER.

PROTECTED TREES NOTE:
NO PROTECTED TREES WILL BE IMPACTED UNLESS PERMITTED INDEPENDENTLY.



STRAW BALE BARRIER INSTALLATION DETAIL
NOT TO SCALE

TABLE 4-1
GROUNDWATER DISCHARGE - SCREENING VALUES

PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L
PH, STANDARD UNITS	6.0 - 8.5
TOTAL RECOVERABLE MERCURY	0.012 ug/L
TOTAL RECOVERABLE CADMIUM	9.3 ug/L
TOTAL RECOVERABLE COPPER	2.9 ug/L
TOTAL RECOVERABLE LEAD	0.03 ug/L
TOTAL RECOVERABLE ZINC	86.0 ug/L
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L
BENZENE	1.0 ug/L
NAPHTHALENE	100.0 ug/L

mg/L = milligrams per liter
ug/L = micrograms per liter

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

EROSION CONTROL PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER
9

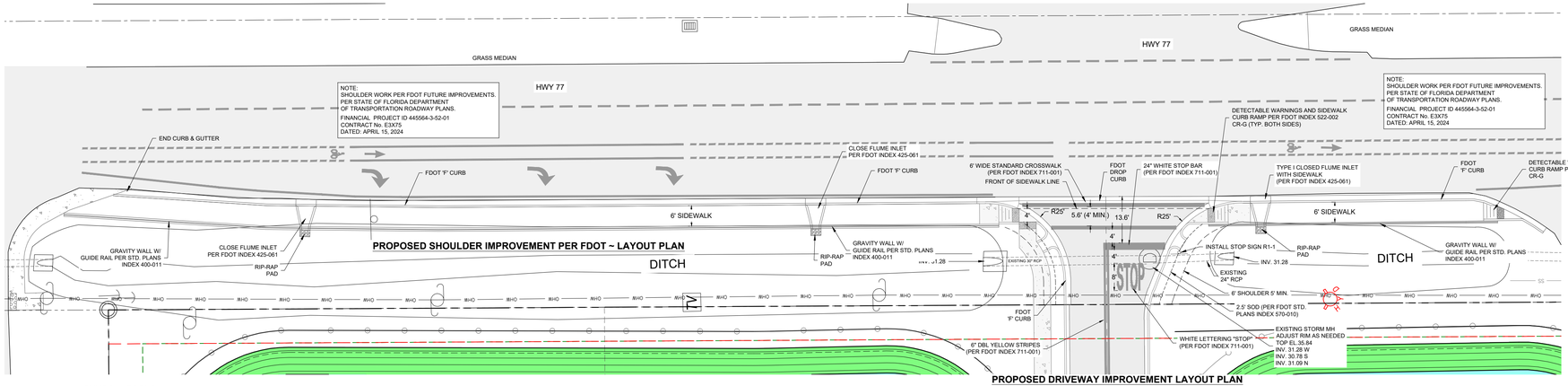
PROJECT NUMBER
1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 EROSION CONTROL PLAN Sheet 9

Date: 2/6/2026 1:43 PM File: p:\1915.01 ewit rehab lynn haven\1 civil\3dfiles\dwg\plot\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



SYMBOL LEGEND

- DENOTES PROPOSED STORMWATER PIPE
- DRAINAGE STRUCTURES
- 30 — DENOTES EXISTING CONTOURS
- 35.50 — DENOTES PROPOSED FINISHED GRADE
- EXEL 12.50 — DENOTES EXISTING GRADE SHOT
- DENOTES STORMWATER SURFACE FLOW

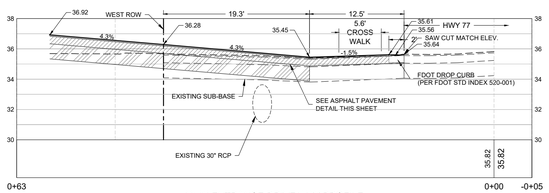
HWY 77 POSTED SPEED LIMIT - 45 MPH.

PAVED AND GRADED DRIVEWAYS PER FY 2025-26 STANDARD PLANS INDEX 330-001, (SEE SHEET 11).
https://www.fdot.gov/design/standardplans/current/default.shtm

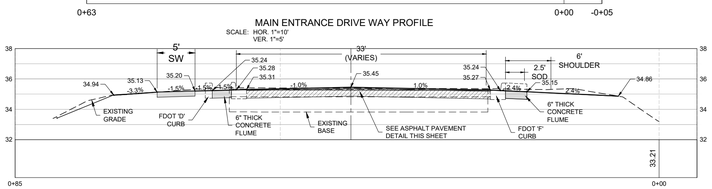
0' 10' 20' 40'
SCALE: 1" = 20'

PAVEMENT NOTES:

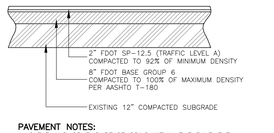
1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 3 FT. BEYOND THE CURB LINE.
2. REMOVE AND REPLACE CLAYEY SOILS ENCOUNTERED.
3. FILL MATERIAL SHALL BE CLEAN SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THE 12% FINER THAN THE U.S. No. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY.
4. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY PER MODIFIED PROCTOR (AASTO T-180)
5. REMOVE PAVED SHOULDER AT DRIVEWAY. (SEE CROSS SECTION THIS SHEET)



MAIN ENTRANCE DRIVE WAY PROFILE
SCALE: HOR. 1"=10'
VER. 1"=5'



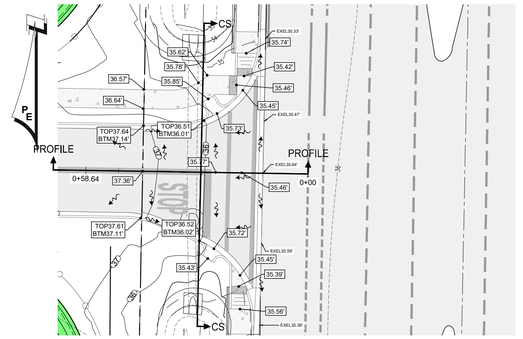
DRIVEWAY CROSS SECTION
SCALE: HOR. 1"=10'
VER. 1"=5'



PAVEMENT NOTES:

1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 3 FT. BEYOND THE CURB LINE.
2. REMOVE AND REPLACE CLAYEY SOILS ENCOUNTERED.
3. FILL MATERIAL SHALL BE CLEAN SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THE 12% FINER THAN THE U.S. No. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY.
4. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% MAXIMUM DENSITY PER MODIFIED PROCTOR (AASTO T-180)
5. REMOVE PAVED SHOULDER AT DRIVEWAY. (SEE CROSS SECTION THIS SHEET)

ASPHALT PAVEMENT DETAIL
FROM ROW TO EOP
NOT TO SCALE


CS
PROFILE
PROFILE
0+58.64
0+00
TOP37.64
BTM37.14
TOP36.51
BTM36.01
TOP37.61
BTM37.11
TOP36.52
BTM36.02
EXEL35.64
EXEL35.47
EXEL35.59
EXEL35.38
35.72
35.46'
35.45'
35.40'
35.39'
35.56'
35.43'
35.42
35.46
35.72
35.74
35.62
36.78'
35.80'
36.57'
36.64'
37.38'
35.7'
35.72
35.72
35.72

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads
3	Sight Distance Above Ground Hazard
4	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures
5	Channelizing Devices - Vehicles Lane Widths High-Visibility Safety Apparel
6	Speed Reduction Signing
7	Flagger Control Survey Work Zones Signs
8	Drop-Offs In Work Zones
9	Business Entrances
10	Temporary Asphalt Separator
11	Channelizing Devices Temporary Barrier Rates Pavement Markings

GENERAL NOTES:

1. *This table contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control to work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Additional requirements may be added by the Local Agency having jurisdiction on State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.*
2. *Use this Index in accordance with the Plans and Indexes 102-603 through 102-680. Indexes 102-601 through 102-603 are applicable to all work zones. Indexes 102-604 through 102-680 are applicable as needed. Indexes not mentioned above (or subsequent revisions) are recommended by the Manatee Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, Flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.*
3. *Except for emergencies, any road closure on State Highway System must comply with Section 339.15, F.S.*

TABLE 1
CHANNELIZING DEVICE SPACING

Work Zone Type	Max. Spacing (Feet) Taper & Barricades, Channelizing Devices, Tubular Markers, Vertical Panels or Drums	Longitudinal Buffer Space
Short Duration	L or 50	L or 50
Mobile	L or 25	50
Shadow	L or 25	100

TABLE 2
TAPER LENGTH "L"

Work Zone Speed (MPH)	Min. Taper Length (Feet)
≤ 40	$L = \frac{WS^2}{60}$
> 40	$L = WS$

Where, W = width of offset in feet, S = Speed

TABLE 3
WORK ZONE SIGN SPACING

Work Zone Type	Min. Spacing (Feet)
Advance and Intervals with Work Zone Speed ≤ 40 mph	100
Advance and Intervals with Work Zone Speed > 40 mph	300

Additional advance warning signs may be used. When speed is 45 mph or greater, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.

SYMBOLS:

- Work Area
- Channelizing Device
- Work Zone Sign
- Type III Barricade
- Lane Identification and Direction of Traffic

DEFINITIONS:

Regulatory Speed (In Work Zones)
The maximum permitted travel speed posted for the work zone to which drivers are required to conform. This is the speed limit which must be shown or noted in the plans. This speed should be used as the minimum design speed to determine runout lengths, departure angles, sight distances, placement of need, clear zone widths, taper lengths, crash cushion requirements, barrier spacings, superelevation and other similar features.

Advisory Speed
The maximum recommended travel speed through a curve or a hazardous area.

Travel Way
The portion of the roadway for the movement of vehicles. For traffic control through work zones, travel way may include the temporary use of shoulders and any other pavement or temporary surface intended for use as a lane for the movement of vehicular traffic.

a. *Travel Lane: The designated widths of roadway pavement marked to separate and guide traffic flow, carrying, passing and climbing maneuvers from through traffic.*

b. *Auxiliary Lane: The designated widths of roadway pavement marked to separate speed change, turning, passing and climbing maneuvers from through traffic.*

Shoulder, Side Slopes, and Diversion
A lateral to the roadways of traffic units another roadway to bypass the work zone. Diversion may be used for the full length of the work zone or only a different section of the pavement. Diversion is also applicable in the redirection of traffic onto a temporary roadway, usually adjacent to the permanent roadway and within the limits of the right of way.

Aboveground Hazard
Any natural or man-made object, material or equipment other than traffic control devices that encroaches upon the travel way or that is located within the clear zone which does not meet the Department's Standard Specifications for Road and Bridge Construction and is not in line and exposing of desert level breakaway criteria.

TEMPORARY TRAFFIC CONTROL DEVICES:

1. *All temporary traffic control devices shall be in the Department's Approved Product List (APL) at the time of installation. If the device is permanently marked on the device in a readily visible location.*
2. *All temporary traffic control devices shall be removed as soon as practical, when they are no longer needed. When work is to be performed for periods of time, temporary traffic control devices that are no longer appropriate for the work being done shall be removed or covered. Signs mounted on the shoulder, sidewalk, or other roadway facility not affected by the work when work is suspended.*
3. *Arrow Boards, Portable Changeable Message Signs, Radar Feedback Trailer, Portable Regulatory Signs, and any other trailer mounted device shall be removed from the roadway when not in use. Trailers shall be parked at least as far removed outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use.*

OVERHEAD WORK:

Work is only allowed over a traffic lane when one of the following options is used:

OPTION 1 OVERHEAD WORK USING A MODIFIED LANE CLOSURE)
Overhead work using a modified lane closure is allowed if all of the following conditions are met:

1. *Work activity is located in a signalized intersection and limited to signals, signs, lighting and utilities.*
2. *Work operations are 60 minutes or less.*
3. *Speed limit is 45 mph or less.*
4. *Aerial lift equipment is the work area truck stay high-intensity, rotating, flashing, oscillating, or strobe lights operating.*
5. *Flagmen are provided for traffic in the work area to close the lane.*
6. *Traffic control devices are placed in advance of the vehicle/equipment closing the lane using a minimum 100 foot taper.*
7. *Volume or circumstances in the roadway may dictate additional devices, signs, flagmen and/or a longer taper length.*

OPTION 2 OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)
Overhead work above a open traffic lane is allowed if all of the following conditions are met:

1. *Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.*
2. *Work operations are 60 minutes or less.*
3. *Speed limit is 45 mph or less.*
4. *No encroachment by any part of the work activities and equipment within an open traffic lane. The work area truck shall be parked in the work area.*
5. *No encroachment in the work area by high-intensity, rotating, flashing, oscillating, or strobe lights operating.*
6. *Flagmen are provided for traffic in the work area to direct additional devices, signs, flagmen and/or a longer taper length.*
7. *Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.*
8. *Other Geometrical Approvals, Roll Condition, or other changes to the governor clearance. The proper clearance required prevails as the rule.*

OPTION 3 OVERHEAD WORK ADJACENT TO AN OPEN TRAFFIC LANE)
Overhead work adjacent to an open traffic lane is allowed if all of the following conditions are met:

1. *Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.*
2. *Work operations are 60 minutes or less.*
3. *Speed limit is 45 mph or less.*
4. *No encroachment by any part of the work activities and equipment within 2 feet of the edge of the open traffic lane. The work area truck shall be parked.*
5. *No encroachment in the work area by high-intensity, rotating, flashing, oscillating, or strobe lights operating.*
6. *Flagmen are provided for traffic in the work area to direct additional devices, signs, flagmen and/or a longer taper length.*
7. *Volume or circumstances in the roadway may dictate additional devices, signs, flagmen and/or a longer taper length.*
8. *Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.*
9. *Other Geometrical Approvals, Roll Condition, or other changes to the governor clearance. The proper clearance required prevails as the rule.*

TEMPORARY TRAFFIC CONTROL DEVICES:

1. *All temporary traffic control devices shall be in the Department's Approved Product List (APL) at the time of installation. If the device is permanently marked on the device in a readily visible location.*
2. *All temporary traffic control devices shall be removed as soon as practical, when they are no longer needed. When work is to be performed for periods of time, temporary traffic control devices that are no longer appropriate for the work being done shall be removed or covered. Signs mounted on the shoulder, sidewalk, or other roadway facility not affected by the work when work is suspended.*
3. *Arrow Boards, Portable Changeable Message Signs, Radar Feedback Trailer, Portable Regulatory Signs, and any other trailer mounted device shall be removed from the roadway when not in use. Trailers shall be parked at least as far removed outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use.*

OVERHEAD WORK: (Cont.)

OPTION 4 (OVERHEAD WORK MAINTAINING TRAFFIC WITH NO ENCROACHMENT BELOW THE OVERHEAD WORK AREA)
Traffic shall be detoured, shifted, diverted or paced so to not encroach in the area directly below the overhead work operations in accordance with the applicable requirements of Option 1, 2 or 3 above. This option applies no, but not limited to, the following construction activities:

a. *Beam, girder, segment, and bent/cap cap placement.*
b. *Deck forming, reinforcement placement and removal.*
c. *Concrete placement.*
d. *Railing construction located at edge of deck.*
e. *Structure demolition.*

OPTION 5 CONDUCTOR/CABLE PULLING ABOVE AN OPEN TRAFFIC LANE)
Conductor and cable pulling above an open traffic lane is not to be permitted, traction shall be done in accordance with the appropriate tasks or temporary traffic control plan.

Continuous pulling operation of secured cable and/or conductors are allowed over open lane(s) of traffic with no encroachment by any part of the work activities and equipment within 2 feet of the edge of the open traffic lane of the travel way. The utility shall submit a detailed plan for the cable and conductor/cables at no time fall below the minimum vertical clearance.

On Limited Access Facilities, a temporary traffic control plan is required. The temporary traffic control plan shall include:

1. *Work activities are limited to the hours of 9:00 AM pulling of the pull-rope across the roadway.*
2. *During pulling operations, advance warning consisting of no less than a Changeable Message Sign operator at the end of the work zone, and a minimum of one Law Enforcement Officer and Tile Presence to Stop Following by a traffic control officer in vehicle with blue lights flashing during the pulling operation.*

RAILROADS:

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include the distance from the railroad crossing to the nearest cross to the intersections, new closure or taper locations, signal timing, etc.

SIGHT DISTANCE:

1. *Tapers: Transition tapers should be obvious to drivers. If restricted sight distance is a factor, the taper length may be increased. Transitions or tapers should begin well in advance of the above conditions. The placement of tapers should not be hidden behind curves.*
2. *Intersections: Traffic control devices at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely. Intersection sight distance is measured from the road(s) intersection sight distance.*

ABOVEGROUND HAZARD:

1. *Aboveground hazards (as defined) are to be considered work areas and shall be protected by implementing appropriate work zone traffic control procedures. During nonworking hours, all objects, materials and equipment that constitute an aboveground hazard must be store/placed outside the clear zone and clear zone or be shielded by a barrier or crash cushion.*
2. *For aboveground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.*

SIGNS: (Cont.)

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING
Existing or temporary traffic control signs that are no longer applicable or are inconsistent with intended travel patterns shall be removed or their message.

Sign blanks or other available coverings must completely cover the existing sign. Signs shall not be turned backwards or sideways as a method of covering, and bolted in a manner to prevent rotation.

Sign covers are incidental to work operations and are not paid for separately.

SIGNING FOR DETOURS, LANE SHIFTS AND DIVERSIONS
Detour should be signed clearly over their entire length. Where necessary, supplemental signs shall be used at critical locations. The reverse turning (W1-4) warning sign should be used for the advance warning for a lane shift. A diversion should be signed as a lane shift.

EXTENDED DISTANCE ADVANCE WARNING SIGN
Advance Warning Signs shall be used at minimum distances of one-half mile or more when limited sight distance or the nature of the deviation may require motorists to reduce speed or change lanes. Extended distance advance warning signs shall also be required on any new roadway, but additionally on multilane divided highways where vehicle speed is generally in the higher speed range.

UTILITY WORK AHEAD SIGN
The W20-7a WORK AHEAD (60) (1) sign may not be used as an alternate to the ROAD WORK AHEAD sign or the ROAD WORK 1X FT (R20-1) sign for utility operations as an adjuncts to a highway.

LENGTH OF ROAD WORK SIGN
The length of road work sign (G20-1) bearing the legend ROAD WORK NEXT ... MILES (KM) shall be the distance to the end of the work zone. The sign shall be used in conjunction with the (R20-1) ROAD WORK AHEAD sign.

END ROAD WORK SIGN
The END ROAD WORK sign (G20-2) should be installed on all projects, but may be omitted where the work operation is less than 1 day. The sign should be placed immediately beyond the last work area. The sign should not be used on projects unless other distance is called for in the plans. When other Construction or Maintenance Operations occur within 1 mile this sign should be omitted and nothing mentioned in accordance with Index 102-600, ADVANCE AND/OR OVERLAPPING WORK ZONE SIGNING.

OVERHEAD WORK: (Cont.)

OPTION 4 (OVERHEAD WORK MAINTAINING TRAFFIC WITH NO ENCROACHMENT BELOW THE OVERHEAD WORK AREA)
Traffic shall be detoured, shifted, diverted or paced so to not encroach in the area directly below the overhead work operations in accordance with the applicable requirements of Option 1, 2 or 3 above. This option applies no, but not limited to, the following construction activities:

a. *Beam, girder, segment, and bent/cap cap placement.*
b. *Deck forming, reinforcement placement and removal.*
c. *Concrete placement.*
d. *Railing construction located at edge of deck.*
e. *Structure demolition.*

OPTION 5 CONDUCTOR/CABLE PULLING ABOVE AN OPEN TRAFFIC LANE)
Conductor and cable pulling above an open traffic lane is not to be permitted, traction shall be done in accordance with the appropriate tasks or temporary traffic control plan.

Continuous pulling operation of secured cable and/or conductors are allowed over open lane(s) of traffic with no encroachment by any part of the work activities and equipment within 2 feet of the edge of the open traffic lane of the travel way. The utility shall submit a detailed plan for the cable and conductor/cables at no time fall below the minimum vertical clearance.

On Limited Access Facilities, a temporary traffic control plan is required. The temporary traffic control plan shall include:

1. *Work activities are limited to the hours of 9:00 AM pulling of the pull-rope across the roadway.*
2. *During pulling operations, advance warning consisting of no less than a Changeable Message Sign operator at the end of the work zone, and a minimum of one Law Enforcement Officer and Tile Presence to Stop Following by a traffic control officer in vehicle with blue lights flashing during the pulling operation.*

RAILROADS:

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include the distance from the railroad crossing to the nearest cross to the intersections, new closure or taper locations, signal timing, etc.

SIGHT DISTANCE:

1. *Tapers: Transition tapers should be obvious to drivers. If restricted sight distance is a factor, the taper length may be increased. Transitions or tapers should begin well in advance of the above conditions. The placement of tapers should not be hidden behind curves.*
2. *Intersections: Traffic control devices at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely. Intersection sight distance is measured from the road(s) intersection sight distance.*

ABOVEGROUND HAZARD:

1. *Aboveground hazards (as defined) are to be considered work areas and shall be protected by implementing appropriate work zone traffic control procedures. During nonworking hours, all objects, materials and equipment that constitute an aboveground hazard must be store/placed outside the clear zone and clear zone or be shielded by a barrier or crash cushion.*
2. *For aboveground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.*

SIGNS:

SIGN MATERIALS
Mesh signs and non-retroreflective vinyl signs may only be used for daylight operations. Retroreflective signs shall be used for nighttime operations in accordance with Specifications Section 994.

Retroreflective signs shall be covered by manufacturer of Specification Section 994 may be used for daylight or night operations not to exceed 1 day except as noted in the following.

Night or Lightweight sign panels may be used in accordance with the vendor specifications for use and shall be removed at night.

INTERSECTING ROAD SIGNING
The use of signs for the purpose of identifying and leaving work zones to way of intersecting crossroads shall be attempted to make drivers aware of work zone conditions. When work operations exceed 60 minutes, place the ROAD WORK AHEAD sign on the side street entering the work zone.

Flashlight, lamps or other lighted signal that will display a red warning light shall not be installed.

Flagger Stations
Flagger stations shall be located far enough in advance of the work area so that approaching road users will have sufficient distance to stop before entering the work area. When used at nighttime, the flagger station shall be illuminated.

SURVEY WORK ZONES:

Survey crews shall use a vehicle or hazard sign shall be the principal traffic control device. Refer to the Work Zone Traffic Control Through Survey Work Zones and may replace the ROAD WORK AHEAD sign when lane closures occur, at the discretion of the Party Chief.

When Traffic Control through Work Zones is being used for survey purposes only, the END ROAD WORK sign as called for in certain Std Series of Indexes should be omitted.

Survey Between Active Traffic Lanes or Shared Left Turn Lanes

The following provisions apply to Rain Roadway Traffic Control Work Zones. Survey crews shall use a vehicle or hazard sign shall be the principal traffic control devices when the Survey Work Zone Isolate Intersections.

(a) A STAR IN TOWN LANE (TTC-60D-25) sign shall be added to the Advance Warning Sign sequence as the second sign immediately in front the work area.

(b) Elevation Surveys-Crews may be used at the discretion of the Party Chief to protect prism holder and Flagger(s) Cones, if used, may be placed as far as 50' intervals along the break line throughout the work zone.

SIGNS: (Cont.)

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING
Existing or temporary traffic control signs that are no longer applicable or are inconsistent with intended travel patterns shall be removed or their message.

Sign blanks or other available coverings must completely cover the existing sign. Signs shall not be turned backwards or sideways as a method of covering, and bolted in a manner to prevent rotation.

Sign covers are incidental to work operations and are not paid for separately.

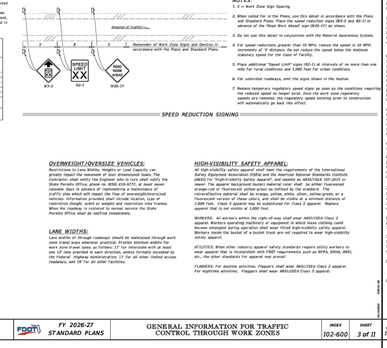
SIGNING FOR DETOURS, LANE SHIFTS AND DIVERSIONS
Detour should be signed clearly over their entire length. Where necessary, supplemental signs shall be used at critical locations. The reverse turning (W1-4) warning sign should be used for the advance warning for a lane shift. A diversion should be signed as a lane shift.

EXTENDED DISTANCE ADVANCE WARNING SIGN
Advance Warning Signs shall be used at minimum distances of one-half mile or more when limited sight distance or the nature of the deviation may require motorists to reduce speed or change lanes. Extended distance advance warning signs shall also be required on any new roadway, but additionally on multilane divided highways where vehicle speed is generally in the higher speed range.

UTILITY WORK AHEAD SIGN
The W20-7a WORK AHEAD (60) (1) sign may not be used as an alternate to the ROAD WORK AHEAD sign or the ROAD WORK 1X FT (R20-1) sign for utility operations as an adjuncts to a highway.

LENGTH OF ROAD WORK SIGN
The length of road work sign (G20-1) bearing the legend ROAD WORK NEXT ... MILES (KM) shall be the distance to the end of the work zone. The sign shall be used in conjunction with the (R20-1) ROAD WORK AHEAD sign.

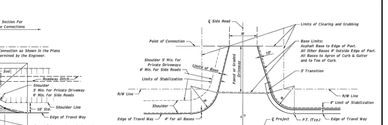
END ROAD WORK SIGN
The END ROAD WORK sign (G20-2) should be installed on all projects, but may be omitted where the work operation is less than 1 day. The sign should be placed immediately beyond the last work area. The sign should not be used on projects unless other distance is called for in the plans. When other Construction or Maintenance Operations occur within 1 mile this sign should be omitted and nothing mentioned in accordance with Index 102-600, ADVANCE AND/OR OVERLAPPING WORK ZONE SIGNING.

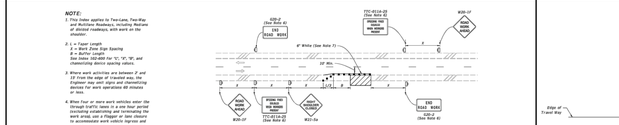




DRIVEWAY ENTRANCES NOTES:

1. *See Plans For Driveway Width (W) and Return Radius (R).*
2. *See the Plans for drainage pipe size and length or as determined by the Engineer. The size will be no less than 15" diameter or equivalent.*
3. *Stable material may be required for graded driveways to private property as directed by the Engineer in accordance with Specification 152-8.*
4. *The driveway pavement requirement at graded connections may be waived for connections serving one or two homes or field entrances with less than 20 trips per day, or 5 trips per hour as approved by the Engineer, or when not shown in the Plans.*
5. *Point of Connection:*
   a. *Construct paved driveways for all paved connecting Facilities. The connecting point will be determined by the Engineer.*
   b. *Construct paved driveways for all business, commercial, industrial or high volume residential graded connecting Facilities. Construct the connecting point 36'-0" from edge of travel way or at R/W line, whichever is less.*
   c. *Construct paved driveways for all side road connections. The R/W is the connecting point.*

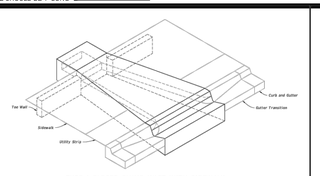



Point of Connection
Shoulder
Edge of Travel Way
Limits of Clearing and Grubbing
Base Limits: Asphalt Base to Edge of Pavt. and Shoulder Gutter Outside Edge of Pavt. on Base Subject of Curb & Gutter and to Toe of Curb.
Limits of Stabilization

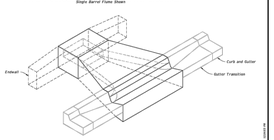
FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

GENERAL NOTES:

1. The finished grade and slope of the inlet top are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. Where inlets are to be constructed on a curve, refer to the plans to determine the radius. Break sheet when necessary.
3. Inlets can be either cast-in-place or precast concrete. Chamfer all exposed edges ¾".
4. All reinforcement in ASTM A615/A615M Grade 60 steel, either smooth or deformed with the following exceptions: Spirals may be smooth bars. Equivalent area grade 40 steel or 60 kst welded wire fabric may be substituted.



TYPE I CLOSED FLUME INLET WITH SIDEWALK
Single Barrel Flume Shown

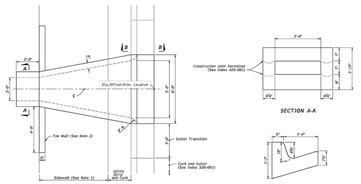


TYPE II CLOSED FLUME INLET WITHOUT SIDEWALK
Single Barrel Flume Shown

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type-I Dimensional Details
3	Reinforcing Details
4	Type-II Dimensional Details
5	Multiple Barrel Flumes

LAST REVISION: 11/01/20 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | CLOSED FLUME INLET | INDEX 425-061 | SHEET 1 of 5



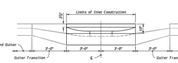
PLAN

SECTION A-A

SECTION B-B



SIDE ELEVATION



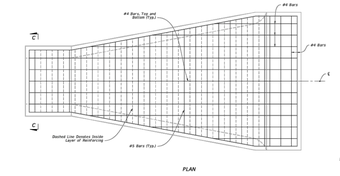
FRONT ELEVATION

NOTES:

1. Use sloped section with sidewalk applications only.
2. Use Toe Walls with Sidewalk application only. For Flatbed without Sidewalk use DETAILS on Sheet 4.
3. Slope to match adjacent curb with 3" top radius and 1½" bottom radius.
4. See Sheet 5 for multiple barrel flumes span variation.

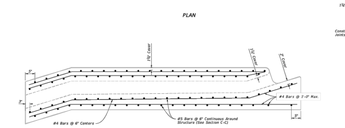
TYPE-I DIMENSIONAL DETAILS

LAST REVISION: 11/01/20 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | CLOSED FLUME INLET | INDEX 425-061 | SHEET 2 of 5

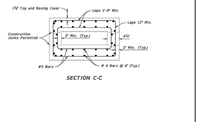


PLAN

NOTE:
Type-C Closed Flume Inlet shown, Type-S Closed Flume Inlet Similar.



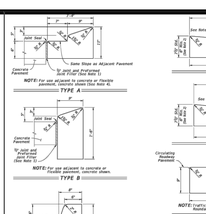
SIDE ELEVATION



SECTION C-C

REINFORCING DETAILS

LAST REVISION: 11/01/20 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | CLOSED FLUME INLET | INDEX 425-061 | SHEET 3 of 5



TYPE A

TYPE B

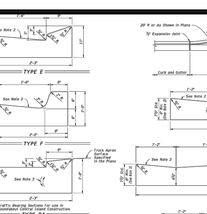
TYPE C

TYPE D

NOTE: For use adjacent to concrete or flexible pavement, Interior shown (See Note 4).

NOTES:

1. For Type A, Type B, and Type D Curb, Expansion joints, preformed joint filler, and joint seal are required at locations specified in Specification 350, see Sheet 5.
2. For Type D, Type F, Drop Curb, and Valley Gutter: When used on high side of roadway, match the cross slope of the gutter to the cross slope of the adjacent pavement. The thickness of the gutter may be increased to achieve this.
3. For Type D, curbed entries section as that gutter cross slope matches slope of adjacent circulating roadway pavement.
4. For details depicting proper of Type A Curb adjacent to flexible pavement see Sheet 5.



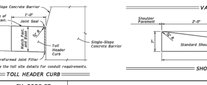
TYPE E

TYPE F

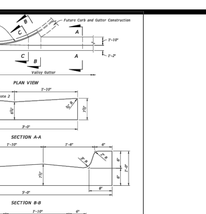
NOTE: Traffic Bearing Sections for use in Roundabouts Circulating Roadways.

TYPE RA

DROP CURB



TOLL HEADER CURB



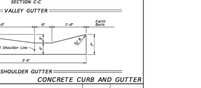
PLAN VIEW

SECTION A-A

SECTION B-B

SECTION C-C

VALLEY GUTTER



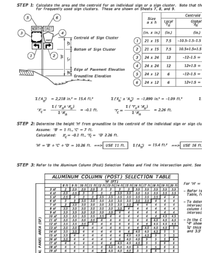
SHOULDER GUTTER

CONCRETE CURB AND GUTTER

LAST REVISION: 11/01/20 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | CURB AND GUTTER | INDEX 520-001 | SHEET 2 of 3



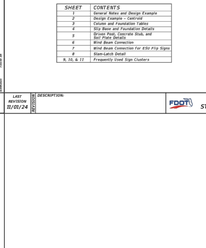
INDEX 430-000



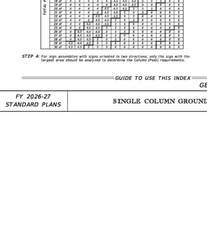
INDEX 430-001



INDEX 430-020

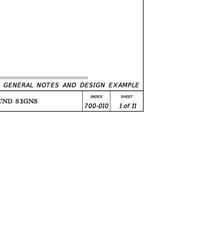


INDEX 430-030



INDEX 430-031 Through 430-034

Note:
See Plan for sodding quantities for each midset to be determined by the designer from his detail.



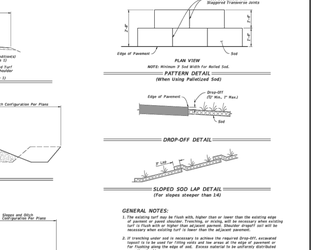
INDEX 430-040

TABLE 2: SOD QUANTITIES (SY)

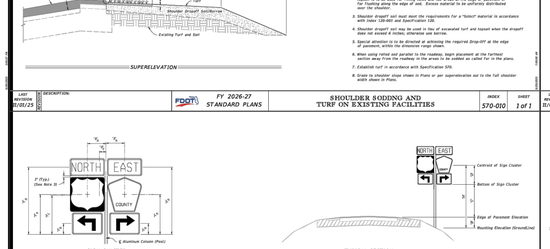
	INDEX 430-000	INDEX 430-001	INDEX 430-020	INDEX 430-030							INDEX 430-040					
	SLOPE		ALL SLOPES	SLOPE							SLOPE					
PIPE SIZE	1:4	1:3	1:4 & 1:6	1:2	1:3		1:4		1:6		1:2	1:3	1:4	1:6		
				WIDTH							WIDTH					
	7	7	7	7	7	8	7	8	7	8	7	7	7	7	8	
12"				24							24	24	24	24		
18"	72	72	72	27	27		27		27		27	27	27	27		
24"	36	36	36	30	30		30		30		30	30	30	30		
30"				33	33		33		33		33	33	33	33		
36"	20	20	20	36	36		36		36		36	36	36	36		
42"				39	39	40	39	40	39	40	39	39	39	39	40	
48"				42	42	44	42	44	42	44	42	42	42	42	44	
54"				45	45	48	45	48	45	48	45	45	45	45	48	
60"				48	48	52	48	52	48	52	48	48	48	48	52	
66"				51	51	56	51	56	51	56	51	51	51	51	56	
72"				54	54	60	54	60	54	60	54	54	54	54	60	
78"				57	57	64	57	64	57	64	57	57	57	57	64	
84"				60	60	68	60	68	60	68	60	60	60	60	68	
90"				63	63	72	63	72	63	72	63	63	63	63	72	
96"				66	66	76	66	76	66	76	66	66	66	66	76	
102"				69	69	80	69	80	69	80	69	69	69	69	80	
108"				72	72	84	72	84	72	84	72	72	72	72	84	
114"				75	75	88	75	88	75	88	75	75	75	75	88	
120"				78	78	92	78	92	78	92	78	78	78	78	92	
				◊ Ended With Baffle												

SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS

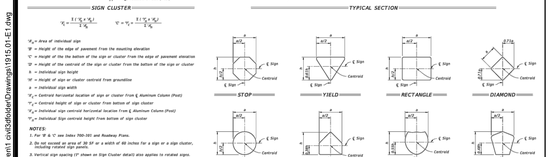
LAST REVISION: 11/01/20 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS | INDEX 522-002 | SHEET 4 of 7



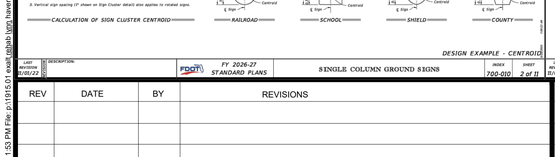
SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G



ASPHALT OVERLAY



SHOULDER WIDENING



SUPERELEVATION

PATTERN DETAIL
(When Using Fabricated Sod)

DROP-OFF DETAIL

SLOPED SOD LAP DETAIL
(For slopes steeper than 1:4)

GENERAL NOTES:

1. The existing turf may be Flush with, higher than or lower than the existing edge of pavement. Cut material as necessary to achieve the required drop-off. Existing turf is flush with or higher than adjacent pavement. Shoulder dropoff soil will be necessary when existing turf is lower than the adjacent pavement.
2. If trenching under sod is necessary to achieve the required Drop-Off, excavated topsoil is to be used for filling voids and tee areas at the edge of pavement or shoulder drop-off to the edge of sod. Excess material to be uniformly distributed over the shoulder.
3. Shoulder dropoff soil must meet the requirements for a "select" material in accordance with Index 120-002 and Specification 120.
4. Shoulder dropoff soil may be used in lieu of excavated turf and topsoil when the dropoff does not exceed 6 inches, otherwise see berms.
5. Special attention is to be directed at achieving the required Drop-Off at the edge of sod to prevent erosion of the shoulder.
6. When using rolled sod sanded to the roadway, begin placement at the farthest section away from the roadway in the areas to be sodded as called for in the plans.
7. Establish turf in accordance with Specification 570.
8. Grade to shoulder slope shown in Plans or per superelevation set to the full shoulder width shown in Plans.

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

LAST REVISION: 11/01/22 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | SHOULDER SODDING AND TURF ON EXISTING FACILITIES | INDEX 570-010 | SHEET 1 of 1



SIGN CLUSTER

TYPICAL SECTION

A_s = Area of individual sign
'B' = Height of the sign of pavement from the mounting elevation
'C' = Height of the the bottom of the sign or cluster from the edge of pavement elevation
'D' = Height of the centroid of the sign or cluster from the bottom of the sign or cluster
s = individual sign height
'H' = Height of sign or cluster centroid from groundline
s = individual sign width
H_{cc} = Centroid horizontal location of sign or cluster from ¢ Aluminum Column (Post)
Y_{cc} = Centroid height of sign or cluster from bottom of sign cluster
W_{cc} = Individual sign centroid horizontal location from ¢ Aluminum Column (Post)
H_{cc} = Individual Sign centroid height from bottom of sign cluster

$Y_c = \frac{\Sigma\,(Y_{cc} \times A_s)}{\Sigma\,A_s}$ $\quad W_c = \frac{\Sigma\,(W_{cc} \times A_s)}{\Sigma\,A_s}$

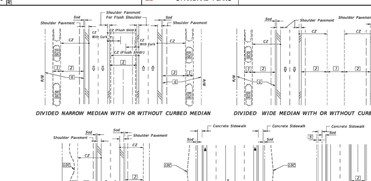
NOTES:

1. For 'B' & 'C' see Index 700-101 and Roadway Plans.
2. Do not exceed an area of 30 SF or a width of 60 inches for a sign or a sign cluster, unless approved by the Engineer.
3. Vertical sign spacing (1" shown on Sign Cluster detail) also applies to rotated signs.

CALCULATION OF SIGN CLUSTER CENTROID

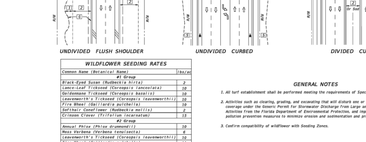
DESIGN EXAMPLE - CENTROID

LAST REVISION: 11/01/22 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | SINGLE COLUMN GROUND SIGNS | INDEX 700-010 | SHEET 2 of 11



DIVIDED NARROW MEDIAN WITH OR WITHOUT CURBED MEDIAN

DIVIDED WIDE MEDIAN WITH OR WITHOUT CURBED MEDIAN



UNDIVIDED FLUSH SHOULDER

UNDIVIDED CURBED

DIVIDED CURBED

WILDFLOWER SEEDING RATES

Common Name (Botanical Name)	Lbs/AC
#1 Group	
Black-Eyed Susan (Rudbeckia hirta)	2
Lance-Leaf Tickseed (Coreopsis lanceolata)	2
Oxeye Daisy (Chrysanthemum leucanthemum)	2
Purple Coneflower (Echinacea purpurea) (Narrowleaf)	2
Pine Wheat (Gaillardia pulchella)	2
Softhair Coneflower (Rudbeckia mollis)	2
Tickseed Stems (Coreopsis tinctoria)	2
#2 Group	
Annual Phlox (Phlox drummondii)	2
Rose Verbena (Verbena canadensis)	2
Tasselmarsh's Tickseed (Coreopsis tassenmarshii)	2
Texas Bluebell (Eustoma exaltatum)	2
Tricolor Clover (Trifolium tricolorum)	2

Note: Wildflower seeding rates are for restoring impacted wildflower areas.

GENERAL NOTES

1. All turf establishment shall be performed meeting the requirements of Specification 570.
2. Activities such as clearing, grubbing, and excavating that will disturb soil or more acres of land require coverage under the Generic Permit for Stormwater Discharge From Large and Small Construction Activities from the Florida Department of Environmental Protection, and implementation of appropriate pollution prevention measures to minimize erosion and sedimentation and properly manage stormwater.
3. Confirm compatibility of wildflower with Seeding Zones.

SEEDING ZONES

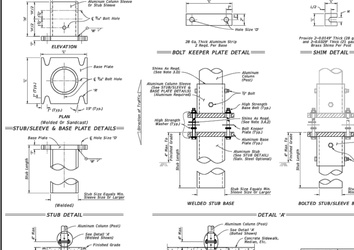


LEGEND

1	Wildflower Group #1
2	Wildflower Group #2
3	Turf (Fly Limit of Construction)
EC	Selective Clearing and Grubbing
LOC	Limits Of Construction
S	Turf

PERMANENT EROSION CONTROL

LAST REVISION: 11/01/19 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | PERMANENT EROSION CONTROL | INDEX 570-001 | SHEET 1 of 3



SECTION AA
(Symmetrical About ℄)

SECTION BB
(Symmetrical About ℄)

SHOULDER AND SLOPE TREATMENT IN SAG VERTICAL CURVES

RURAL UNDIVIDED

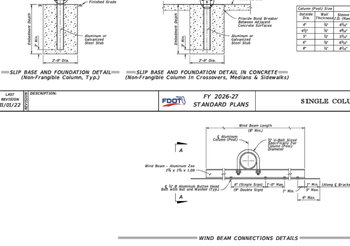
RURAL DIVIDED

CRITERIA FOR PAVING SHOULDER IN DIVIDED AND UNDIVIDED FACILITIES

Design Speed ≥ (mph)	Degree Of Curve
30	7° 0 Greater
40	5° 0 Greater
50	3° 0 Greater
60	3° 0 Greater
70	2° 0 Greater
80	2° 0 Greater

Note:
Shoulder Pavement is required on all curves meeting the criteria tabulated. For curves with a degree of curve greater than 7° 0, to be paved where erosion of the shoulder is evident or anticipated.

SHOULDER AND SLOPE TREATMENT FOR SUPERELEVATED ROADWAY'S



TRANSVERSE SECTION LONGITUDINAL SECTION
OVERLAPPED SOD FLUME

TREATMENTS FOR PROTECTION FROM CONCENTRATED ROADWAY RUNOFF EROSION AND SHOULDER RAVELING

LAST REVISION: 11/01/19 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | PERMANENT EROSION CONTROL | INDEX 570-001 | SHEET 2 of 3

INDEX 430-000

INDEX 430-001

INDEX 430-020

INDEX 430-030

INDEX 430-031 Through 430-034

INDEX 430-040

SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS

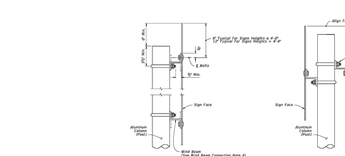
LAST REVISION: 11/01/19 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | PERMANENT EROSION CONTROL | INDEX 570-001 | SHEET 3 of 3

GENERAL NOTES:

1. Meet the requirements of Specification 700.
2. Sign Drawings:
   This Index is considered fully detailed. Submit Shop Drawings only for those signs not detailed in this Index.
3. BREAKAWAY SUPPORTS REQUIREMENTS: Install non-Frangible aluminum column (post) larger than STD with breakaways supports as shown on Sheet 4. Signs shielded by barrier wall or guardrail do not require breakaway supports.
4. Aluminum Sign, Wind Beams and Column (Post) Materials:
   A. Aluminum Sheet: ASTM B209 Alloy 6061-T6
   B. Aluminum Bars and Extruded Shapes: ASTM B221, Alloy 6061-T6
   C. Aluminum Pipe: ASTM B429 Alloy 6063-T6 or Alloy 6063-T6
   D. Cast Aluminum: ASTM B26 Alloy 443A-F6
5. Galvanized Steel Sign Base Drop Materials:
   A. Steel Plate and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
6. Sign Mounting Bolts, Nuts and Washers:
   A. Aluminum Hex Bolts: ASTM F468 Alloy 2024-T4 or Alloy 2024-T4
   B. Aluminum Hex Nuts: ASTM F467 Alloy 6061-T6 or A262-F6
   C. Aluminum Washers: ASTM B221, Alloy 7075-T6
7. Stainless Steel Bolts, Nuts and Washers may be used in lieu of the Aluminum Bolts, Nuts and Washers specified in Note 6.
   A. Stainless Steel Bolts: ASTM F 593 Alloy Group 2, Condition A, CW1 or SH1
   B. Stainless Steel Nuts: ASTM F594
8. Sign Column (Post) Bolts, Nuts and Washers:
   A. Galvanized U-Bolt Columns: ASTM A449 or ASTM A307 SF according to ASTM F3200 with double nuts and hot dip galvanized.
   B. Galvanized Slip Base Columns: ASTM A325 Type 1 or 3 with zinc flash PART #901310 or #901318 and Washers A325, SF and #901314 or #901315 and Nuts A563 DH and Galvanized/Mechanical ASTM F3125, Grade A325, Type 1
   C. Galvanized Breakaway: ASTM A449 Grade B
   D. Galvanized Breakaway: ASTM F436
   E. Galvanized Bolts (Sleeves) ASTM A307 with Galvanized Hex Nuts and Washers

NOTES:

1. Foundation Notes for Slip Base:
   A. See FOUNDATION TABLE on Sheet 3 for foundation embedment depth and stub length.
2. Slip Base Fabrication Notes:
   A. The difference between the O.D. of the post and I.D. of the Sleeve must be ⅛" or less.
   B. The WELDED STUB BASE and lower STUB/SLEEVE BASE shall be hot dip galvanized after fabrication. Prior to application to Aluminum, the upper portion of the SLIP BASE shall be painted.
   C. Alternate Welded Stub Base or Bolted Stub/Sleeve Base may be used in this Index.
   D. For cast base plates bolted to foundation stubs, use a foundation stub that has the same size sign column (Post).
3. Slip-Base Assembly Instructions:
   A. Assemble the Slip Base as follows:
      1. Insert Post into Sleeve and connect using 2 or ½" Stainless Steel Bolts.
      2. Assemble the two base plates to bottom Slip Base Bolts (align slip-strength with 3 washers per bolt: 1 per plate).
      3. Place one washer on each Base Plate between the Base Plate and Slip Base Sleeve. Position the Slip Base Sleeve and Base Plates over the foundation Stub.
      4. Use sleeve or galvanized steel shims to plate the post & Add the top base plate section.
      5. Add the remaining washer between the Top Base Plate and the Nut.
   B. Orient the Bolt Keeper Plates in the Direction of Traffic.
   C. Tighten Base Bolts as follows:
      1. Tighten Base Bolts to the maximum possible with a 12" Long Wrench. Use a Hammer Wrench to tighten and check the bolt thoroughly one time.
      2. Under the supervision of the Engineer, use a calibrated Torque Wrench to tighten the bolts to the torque for the SLIP BASE DETAILS Table. Use—Optional Base Bolts Where Applicable.
      3. Protect bolt threads at the junction with nuts to prevent loosening. Repeat tightening.
   D. Obtain a tight sleeve connection by placing 4 galvanized steel shims between the Aluminum Column (Post) and Sleeve, evenly around the perimeter of the column's bottom section. Shims shall be of a thickness that are ⅛" smaller than the height of the sleeve.



ELEVATION

BOLT KEEPER PLATE DETAIL

SHIM DETAIL



WELDED STUB BASE

BOLTED STUB/SLEEVE BASE

DETAIL 'A'

Column (Post) Size										
Nominal	Wall Thickness	Sleeve Size	Sleeve Length	Base Plate Width	Base Plate Thickness	Anchor Bolt Quantity	Base Bolt Size	Base Plate Torque	Insert Length	Stub Size
4"	¼"	4½"	9"	5"	½"	4	½"	25'	24	½"
4½"	¼"	4½"	9"	5"	½"	4	½"	25'	24	½"
5"	¼"	5½"	9"	6"	½"	4	½"	25'	24	½"
5"	⅜"	5½"	9"	6"	½"	4	½"	25'	24	½"
6"	¼"	6½"	9"	7"	½"	4	½"	25'	46	½"
6"	⅜"	6½"	9"	7"	½"	4	½"	25'	46	½"

SLIP BASE DETAILS

SLIP BASE AND FOUNDATION DETAILS (Non-Frangible Column, Typ.)

SLIP BASE AND FOUNDATION DETAIL IN CONCRETE (Non-Frangible Column In Crossovers, Medians & Sidewalks)

SLIP BASE AND FOUNDATION DETAILS

LAST REVISION: 11/01/22 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | SINGLE COLUMN GROUND SIGNS | INDEX 700-010 | SHEET 3 of 11

ALUMINUM SOIL PLATE DETAIL

PLAN

ELEVATION

CONCRETE/STUB DETAIL
(Traffic Separator)

ELEVATION

DRIVEN POST DETAIL
(Frangible Post In Through Sidewalk Shown Installations without Sidewalk Similar)

DRIVEN POST, CONCRETE/STUB, AND SOIL PLATE DETAILS

LAST REVISION: 11/01/22 | DESCRIPTION: | FDOT FY 2026-27 STANDARD PLANS | SINGLE COLUMN GROUND SIGNS | INDEX 700-010 | SHEET 4 of 11

WIND BEAM CONNECTIONS DETAILS

SINGLE SIGN DETAIL

BACK-TO-BACK SIGN DETAIL

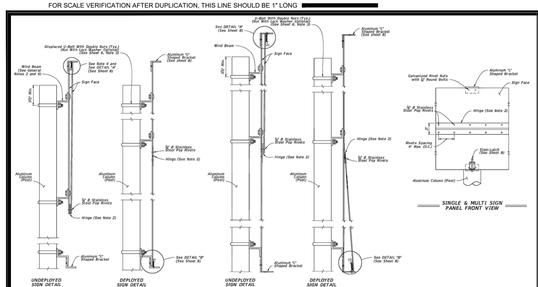
NOTE: Size the area and the centroid location of the sign to be within the limits of the aluminum Column (post) size.

VIEW A-A

NOTES:

1. Top ¾" stainless steel hex head bolts with nylon washer under head and washer under nut may be used in lieu of ¾" ø aluminum bolton or flat head bolts.

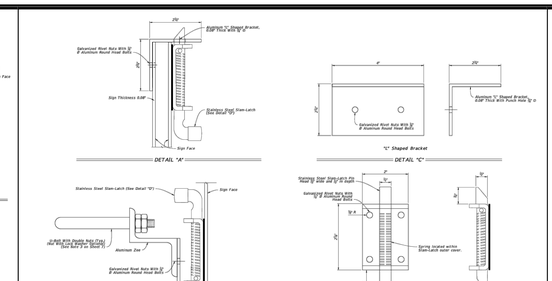
FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



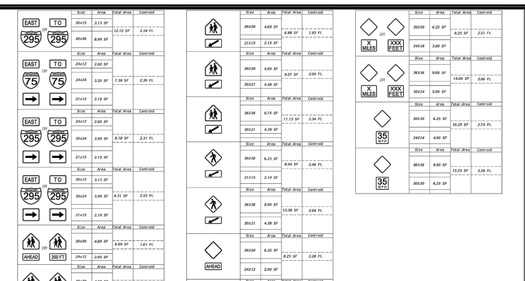
NOTES:

1. Install sign with ESU sign panel in the undeployed (up) position.
2. Provide a continuous stainless steel hinge with minimum 0.060" leaf thickness, 2" open width and 0.250" pin diameter. Stake the hinge at both ends to prevent pin movement.
3. Install Stainless Steel Spring Loaded Slam-Latch with cover to bottom face of flip sign per manufacturer's recommendations.
4. Punch or drill a 3/4" diameter hole in the "U" shaped bracket on site to match location of 1/2" wide slam-latch pin. Remove any burrs or sharp edges.
5. Multi sign panel assembly only use one of the following approved sign messages, actual sign may need to be scaled: FTP 413-25, FTP 460-25, and FTP 414-25.

WIND BEAM CONNECTION FOR ESU FLIP SIGNS

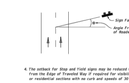


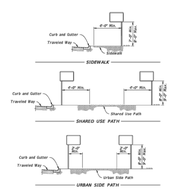
SLAM-LATCH DETAIL



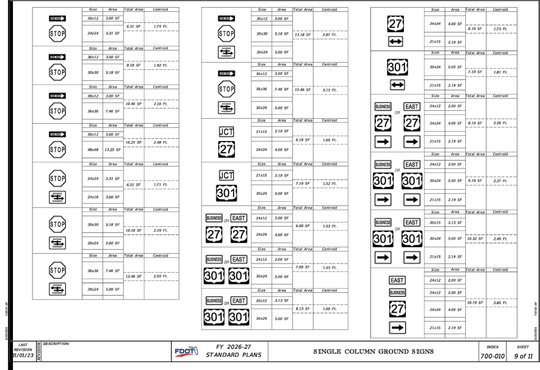
GENERAL NOTES:

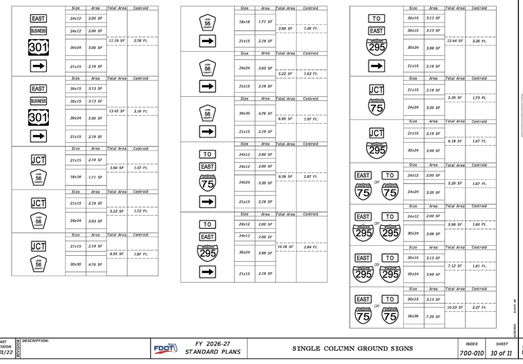
1. Single-Column Signs Shown, Multi-Column Signs similar. These typical sections serve as a guide for locating the traffic signs required under various roadside conditions. For size and details of sign construction and footing, refer to the appropriate Index and Plans.
2. Verify the length of sign supports in the Field prior to Fabrication.
3. Install ground signs at an angle of 3 to 6 degrees away from the traffic flow (see illustrations). Install shutter mounted signs perpendicular to the roadway. Install signs plumb in the vertical clockwise. Install signs on a curve as noted above from the perpendicular to the material line of sight.
4. The setback for Stop and Yield signs may be reduced to 3' minimum from the Edge of Traveled Way if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.
5. The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the Edge of Traveled Way at the point perpendicular to the center of the sign. Where these heights cannot be met, the minimum heights are as follows:
   A. Limited Access Roadways - 7', if a secondary sign is mounted below the major sign, mount the major sign so that the bottom of the sign is at least 6' above the edge of the traveled way and the secondary sign at least 5' above the edge of the traveled way.
   B. Arterial and Collector Roadways - 5' Arterial, except the secondary sign shall be at least 4' above the edge of the traveled way. Where pedestrian activities occur, mount the secondary sign at least 7' above the edge of the traveled way.
6. Do not install sign supports in the bottom of ditches.
7. CASE 5 sign placement is for Interstate Exit Ramps only. Use CASE 1 through Case VIII as appropriate for all other Ramp Exit Signs.
8. Sign Supports:
   A. Install sign supports, so they do not reduce the accessible width of sidewalk to less than 4' min. clear width.
   B. Install sign supports along shared use paths, so a 4-Foot Clear Zone is provided from the face of the sign to the path.
   C. Install sign supports along urban side paths no closer to a 2-Foot buffer strip both sides of the path.

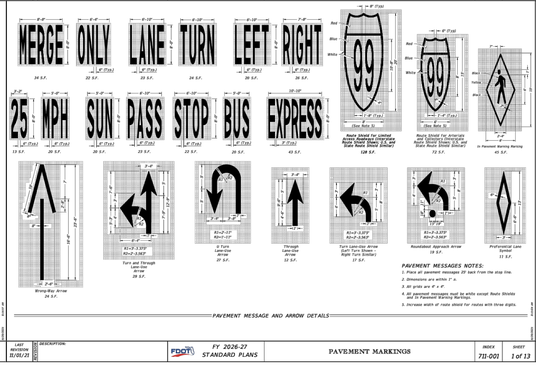




TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS

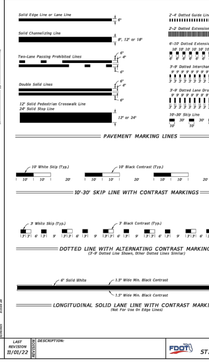


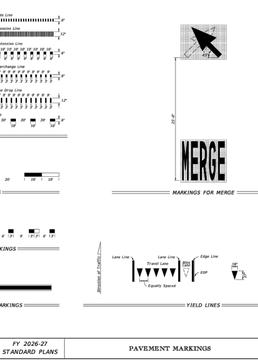




PAVEMENT MESSAGES NOTES:

1. Place all pavement messages 25' back from the stop line.
2. Dimensions are within 1" ±.
3. All grids are 4' x 4'.
4. All pavement messages must be white except Route Shields (Red, Blue, Green, Brown).
5. Increase width of route shield for routes with three digits.





REV	DATE	BY	REVISIONS
NOT		RELEASED FOR CONSTRUCTION BY:	DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

FY 2025-26 FDOT STD PLANS INDEX DETAILS REHABILITATION FACILITY AT S.R. 77

LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 STATE OF FLORIDA PROFESSIONAL ENGINEER
NO. 95046 5-Feb-26

SHEET NUMBER 13

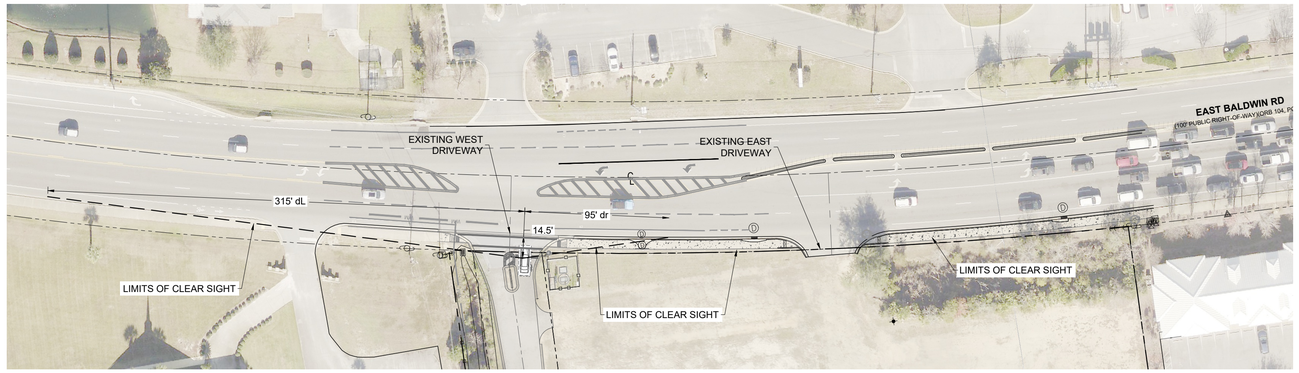
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 FY 2025-26 FDOT STD PLANS INDEX DETAILS Sheet 13

Date: 2/5/2026 1:54 PM File: p:\1915.01 exit rehab lynn haven\1 civil\3d\dwt\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



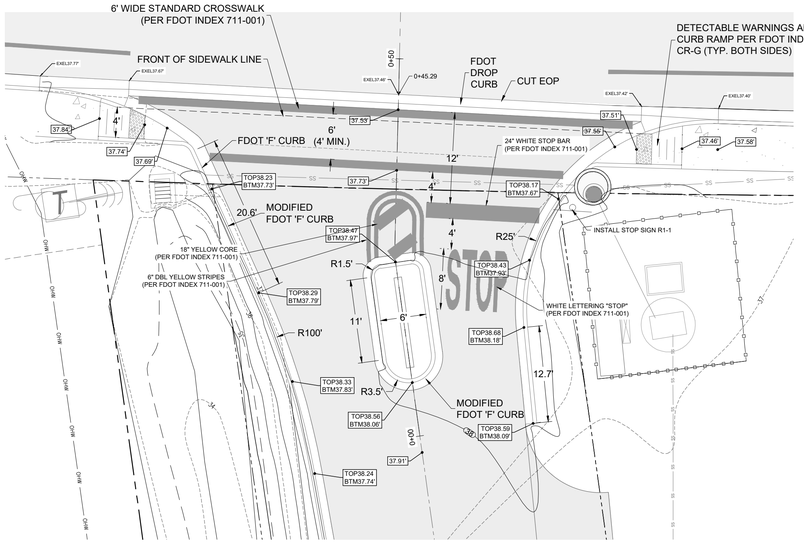
SIGHT DISTANCE LAYOUT
0' 25' 50' 100'
SCALE: 1" = 50'

BALDWIN RD
OWNER BAY COUNTY
(POSTED SPEED LIMIT 35 MPH)
SEE SHEET 11 FOR MOT INDEX 102-602

CLEAR SIGHT TRIANGLES DATA

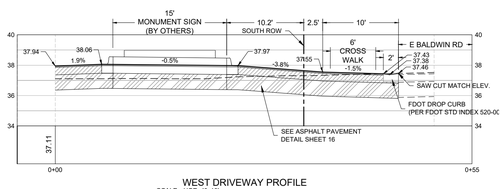
ROAD TYPE	4 LANE UNDIVIDED
VEHICLE TYPE	PASSENGER VEHICLE
d	440 FEET
d_L	315 FEET
d_r	95 FEET

SIGHT DISTANCE FDM 212.11, CLEAR SIGHT TRIANGLES. (SEE LINK BELOW)
https://www.fdot.gov/roadway/fdm/default.shtm

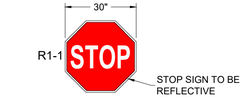


EXISTING WEST DRIVEWAY LAYOUT
0" 5' 10' 20'
SCALE: 1" = 10'

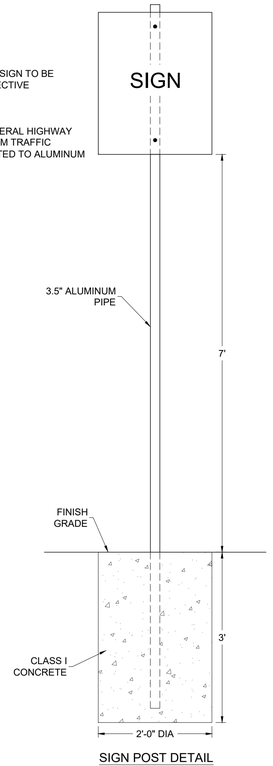
SYMBOL LEGEND
- DENOTES PROPOSED STORMWATER PIPE
- DRAINAGE STRUCTURES
- DENOTES EXISTING CONTOURS
- DENOTES PROPOSED FINISHED GRADE
- DENOTES EXISTING GRADE SHOT
- DENOTES STORMWATER SURFACE FLOW



WEST DRIVEWAY PROFILE
SCALE: HOR. 1"=10'
VER. 1"=5'



NOTE:
ALL SIGNS TO BE INSTALLED PER FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO BE MOUNTED TO ALUMINUM PIPE. (SEE SIGN POST DETAIL)



SIGN POST DETAIL
NOT TO SCALE

REV	DATE	BY	REVISIONS
NOT		RELEASED FOR CONSTRUCTION BY:	DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

BAY COUNTY ACCESS LAYOUT PLAN
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER
14

PROJECT NUMBER
1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 BAY COUNTY ACCESS LAYOUT PLAN Sheet 14

Date: 2/5/2026 1:54 PM File: p:\1915.01-ecat rehab,lynn haven\1-civil\04civil\Drawings\1915.01-E1.dwg
© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

LYNN HAVEN GENERAL NOTES:

EXISTING SITE RELATED ITEMS:

1. THE LOCATION OF UTILITIES SHOWN ON THE PLANS MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN. THE LOCATIONS OF UNDERGROUND UTILITIES HAVE NOT BEEN PHYSICALLY LOCATED BY THEIR OWNER OR PANHANDLE ENGINEERING, INC.
2. THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE PHYSICALLY VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT INTEND TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES, OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING, WHENEVER NECESSARY. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATION OF LINES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES, OR PIPING.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR CONFLICTS NOT SHOWN ON THE SURVEY.
4. STATIONING FOR THE PLANS RELATED TO THE 3D PLAN VIEW IS CENTERLINE OF ALL ROADWAYS/ RIGHT-OF-WAYS AND SHALL BE USED FOR LOCATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE STATIONING WHEN CALCULATING PIPE OR ROADWAY LENGTHS. ACTUAL LENGTH MAY DIFFER DUE TO VERTICAL ELEVATION CHANGES AND HORIZONTAL OFFSETS.
5. THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE AND INFORM HIMSELF FULLY IN REGARD TO ALL CONDITIONS PERTAINING TO THE PLACE WHERE THE WORK IS TO BE PERFORMED FOR THE PURPOSE OF DETERMINING THE COST TO PERFORM THE WORK. THE CONTRACTOR SHOULD PAY SPECIAL ATTENTION TO AREAS INVOLVING CLEARING AND GRUBBING, EXISTING FACILITIES REMOVAL AND REPLACEMENT, SUPPORT ON RELOCATION, AND WORK INVOLVED IN WETLAND AREAS.
6. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNERS ENGINEER OF ANY CONFLICTS BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
7. THE CONTRACTOR SHALL VIDEO THE ENTIRE WORK AREA PRIOR TO CONSTRUCTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF WORK CALLED FOR IN THESE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION REGULATIONS AND PERMITS RELATED ITEMS:

11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LEARN, KNOW, AND COMPLY WITH THE REGULATIONS, ORDINANCES, PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL SCHEDULE THE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
12. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST ISSUE AND SHALL BE CONSIDERED A PART OF THESE DOCUMENTS AS THOUGH INCLUDED.
13. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS IN POSSESSION AT ALL TIMES DURING CONSTRUCTION. ANY INDIVIDUAL CREW OR INDIVIDUAL PERSON WORKING ON THE INSTALLATION OF ANY PART OF THIS PROJECT SHALL HAVE AN APPROVED SET OF PERMITTED PLANS AND SPECIFICATIONS WITH THEM AT ALL TIMES.
14. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS.
15. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR CONSTRUCTION.
16. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.

CONSTRUCTION & SITE RESTORATION RELATED ITEMS:

17. WHERE IT BECOMES NECESSARY TO TEMPORARILY REMOVE, REPOSITION, OR SUPPORT EXISTING FACILITIES, UTILITY POLES, ETC. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE EXISTING FACILITY, UTILITY POLE, ETC. THE CONTRACTOR SHALL GIVE PROPER NOTICE TO THE UTILITY COMPANY PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE WORK AREA AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE WORK AREA.
19. ALL DISTURBED OBJECTS SUCH AS DRIVEWAYS, CULVERTS, RETAINING WALLS, FENCING, SIGNS, MAILBOXES, LANDSCAPING, ETC. SHALL BE REINSTALLED TO EXISTING OR ACCEPTABLE CONDITION BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
20. ALL PAVEMENT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS. FOR THE REPLACEMENT OF ASPHALT ROADS AND PAVEMENT DRIVES, THE CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT AND REPLACE AS SHOWN IN DETAILS.
21. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE PROPOSED PAVEMENT ABUTS.
22. ALL CONCRETE DRIVEWAYS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS. FOR REPLACEMENT OF CONCRETE CROSSINGS, THE CONTRACTOR SHALL SAW CUT BACK TO THE CLOSEST JOINT AND REPLACE AS SHOWN IN DETAILS.
23. ALL DISTURBED DRIVES SHALL BE CONNECTED TO THE EXISTING PAVEMENT IN A CONDITION EQUAL TO OR BETTER THAN ITS PREVIOUS CONDITION USING THE SAME MATERIALS THAT WERE REMOVED.
24. THE CONTRACTOR SHALL MAINTAIN A REASONABLE ACCESS TO ALL FACILITIES DURING CONSTRUCTION.
25. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS NECESSARY TO AVOID TRESPASSING AND DAMAGING PUBLIC AND PRIVATE PROPERTY.
26. ALL SPOIL MATERIAL FROM EXCAVATION SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
27. ALL EXISTING CONCRETE, ASPHALT, TREES, STUMPS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FLORIDA LAWS.
28. A ONE FOOT STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL ASPHALT OVERLAY AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
29. ALL CONSTRUCTION STAKING SHALL BE DONE AT CONTRACTORS EXPENSE. CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL MANHOLES, FITTINGS, VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.). THIS IS MANDATORY, NO EXCEPTIONS.

MAINTENANCE OF TRAFFIC AND ROADWAY RELATED ITEMS:

30. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ADEQUATE TRAFFIC CONTROL AND TO PROVIDE DETOURS AROUND CONSTRUCTION ACTIVITIES. NO STREET SHALL REMAIN CLOSED TO TRAFFIC OVERNIGHT.
31. THE CONTRACTOR SHALL INSTALL ALL TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT IN ACCORDANCE WITH THE LATEST EDITION OF THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD INDEXES FOR MAINTENANCE OF TRAFFIC.
32. CONTRACTOR SHALL MAINTAIN A REASONABLE ACCESS TO ALL FACILITIES DURING CONSTRUCTION. ALL DRIVEWAYS SHALL BE COMPACTED AND MAINTAINED DURING CONSTRUCTION TO ALLOW ACCESS TO FACILITIES AT ALL TIMES. ALL TEMPORARY STABILIZATION SHALL BE SMOOTH AND LEVEL.

EROSION CONTROL AND DEWATERING ITEMS:

33. PRIOR TO STARTING ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS.
34. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL PER THE GUIDELINES OF THE FLORIDA DEVELOPMENT MANUAL. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SHALL BE INCLUDED IN COST OF OTHER ITEMS OF WORK.
35. CONTRACTOR SHALL INSTALL ANY REQUIRED SLOPE STABILIZATION, SILT FENCING, BALED HAY BARRIERS, OR TURBIDITY CURTAINS PER CURRENT FDOT DESIGN STANDARDS. LOCATION SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD.
36. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL CONSTRUCTION AND PREVENT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES, WETLANDS, STORM DRAINAGE SYSTEMS, AND/OR OFF-SITE AREAS, WHETHER SUCH EROSION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. AT NO ADDITIONAL COST TO OWNER, ADDITIONAL EROSION CONTROLS SHALL BE UTILIZED AS NECESSARY AND AS DIRECTED BY THE ENGINEER TO LIMIT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES, WETLAND OR STORM DRAINAGE SYSTEMS. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK.
37. ALL CONSTRUCTION AREAS SHALL BE STABILIZED AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.
38. EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED FOR THE DURATION OF THE PROJECT TO LIMIT THE MOVEMENT OF SILTATION AND SEDIMENTS FROM ENTERING EXISTING DRAINAGE SYSTEMS OR FROM LEAVING THE CONSTRUCTION SITE. ANY ACCUMULATED SEDIMENTS ARE TO BE REMOVED FROM THE EROSION CONTROLS AND DISPOSED OF PROPERLY. ADDITIONALLY, ALL EROSION CONTROLS ARE TO BE INSPECTED AFTER A STORM EVENT AND THE CONTROLS REPLACED OR ARMORED AS NECESSARY AND ACCUMULATED SEDIMENTS REMOVED.
39. TEMPORARY STOCKPILING OF MATERIALS RELATED TO THE CONSTRUCTION ACTIVITIES ARE TO BE PROPERLY STABILIZED, PROTECTED AND DEMARCATED TO LIMIT MATERIAL MOVEMENT AND EROSION FROM DEPOSITING INTO ADJACENT PROPERTIES, WETLANDS OR STORM DRAINAGE SYSTEMS.
40. THE INSTALLATION OF ALL CONCRETE STRUCTURES, GRAVITY SEWER, FORCE MAINS, WATER MAINS, ETC. SHALL BE INSTALLED IN DRY CONDITIONS. DEWATERING MAY BE REQUIRED. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE PREPARED BY THE CONTRACTOR.
41. THE CONTRACTOR SHALL UTILIZE APPROPRIATE DEWATERING SYSTEMS AND TECHNIQUES TO MAINTAIN THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND/OR SURFACE RUNOFF SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION PROCEDURES OR CAUSE EXCESSIVE DISTURBANCE OF UNDERLYING NATURAL GROUND.
42. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED INTO ANY SANITARY SEWER SYSTEM.
43. WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED DIRECTLY TO STORM DRAIN SYSTEMS. PROPER TREATMENT TO A SEDIMENTATION AREA IS TO TAKE PLACE PRIOR TO DISCHARGE TO ANY DRAINAGE SYSTEMS.
44. WATER FROM THE TRENCHES AND EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO AVOID PUBLIC NUISANCE, INJURY TO PUBLIC HEALTH OR THE ENVIRONMENT, OR DAMAGE TO PUBLIC OR PRIVATE PROPERTY, OR DAMAGE TO THE WORK COMPLETED OR IN PROGRESS. SILTATION BARRIERS SHALL BE UTILIZED AS NECESSARY.
45. THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN ALL THE AREAS OF WORK IN SUITABLE DRY CONDITION.
46. PRECAUTIONS SHALL BE TAKEN TO PROTECT NEW WORK FROM FLOODING DURING STORMS OR FROM OTHER CAUSES. GRADING IN THE AREAS SURROUNDING ALL EXCAVATIONS SHALL BE PROPERLY SLOPED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATED AREA OR TO ADJACENT PROPERTIES. WHERE REQUIRED, TEMPORARY DITCHES SHALL BE PROVIDED FOR DRAINAGE. UPON COMPLETION OF THE WORK AND WHEN DIRECTED, ALL AREAS SHALL BE RESTORED IN A SATISFACTORY MANNER AND AS DIRECTED.

LYNN HAVEN UTILITY CONSTRUCTION NOTES:

WATER MAIN INSTALLATION RELATED ITEMS:

1. ALL WATER MAINS SHALL BE INSTALLED ACCORDING TO THE ENGINEERING PLANS AND SPECIFICATIONS.
2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST EDITION.
3. ALL PVC WATER MAINS SIZES 4" TO 12" SHALL BE AWWA C900 DR 18, COLOR BLUE. ALL PVC WATER MAINS SIZES 3" AND LESS SHALL BE ASTM D2241 SDR 21, COLOR BLUE. ALL WATER SERVICE SIZES 2" AND LESS SHALL BE PE FLEXIBLE TUBING PE4710 SDR 9 CTS, COLOR BLUE. ALL DUCTILE IRON WATER MAINS SHALL BE SIZES 4" TO 12" SHALL BE AWWA C151 CLASS 350 WITH CEMENT LINING.
4. ALL MAIN LINE VALVES (2"-16") SHALL BE RESILIENT SEATED GATE VALVES.
5. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER. IN DITCH BOTTOMS, WATER MAINS AND SERVICE LINES SHALL BE A MINIMUM OF 5.0' BELOW THE BOTTOM.
6. ALL MAINS AND SERVICE LINES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600. CONTRACTOR SHALL NOTIFY CITY'S ENGINEER WITHIN 48 HOURS OF PRESSURE TESTING. NO EXCEPTIONS. CITY'S ENGINEER SHALL BE PRESENT DURING BACTERIOLOGICAL SAMPLING AND PRESSURE TESTING. ALL WATER MAINS SHALL BE FLUSHED @ 3 FT PER SECOND AND 6 TIMES THE PIPE VOLUME SHALL BE FLUSHED.
7. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN AND SET FLUSH TO FINISH GRADE. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON AND NOT PVC.
8. ALL PIPE AND BACKFILL SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING OR AWWA TYPE 5 PIPE EMBEDMENT MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
9. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE CONCRETE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6" CLEARANCE EACH WAY IN THE AXIAL DIRECTION.
10. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
11. ALL WATER MAIN SHALL BE INSTALLED WITH INSULATED 10 GA. TRACER WIRE AND LOCATOR TAPE SHALL ON TOP OF ALL PIPE, WHICH INCLUDES SERVICE CONNECTIONS. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS SHOWN IN THE DETAILS. LOCATOR TAPE SHALL BE MARKED "POTABLE WATER BELOW" AND INSTALLED 12" TO 18" ABOVE THE PIPE
12. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATER SERVICE.

SANITARY SEWER FORCE MAIN INSTALLATION RELATED ITEMS:

1. ALL SANITARY SEWER FORCE MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND SPECIFICATIONS
2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST EDITION.
3. ALL PVC PIPE LESS THAN 4" SHALL BE ASTM D2241 SDR-21 (200PSI). ALL PVC PIPE SIZES 4" TO 8" SHALL BE AWWA C900 DR 18 (PC 235). ALL PVC PIPE SIZES 10" TO 12" SHALL BE AWWA C900 DR25 (PC 165). ALL PVC PIPE GREATER THAN 12" SHALL BE AWWA C905 DR25 (PC 160).
4. ALL HDPE PIPE LESS THAN 4" SHALL BE AWWA C901 SDR9 IPS. ALL HDPE PIPE LARGER THAN 4" SHALL BE AWWA C906 SDR11 IPS.
5. ALL SANITARY SEWER FORCE MAINS SHALL BE COLOR GREEN.
6. ALL FORCE MAIN VALVES (4"-12") SHALL BE EPOXY COATED RESILIENT SEATED GATE VALVES.
7. ALL SANITARY SEWER FORCE MAINS SHALL HAVE A MINIMUM OF 36" COVER. IN DITCH BOTTOMS, WATER MAINS AND SERVICE LINES SHALL BE A MINIMUM OF 5.0' BELOW THE BOTTOM.
8. ALL FORCE MAINS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C600 (LATEST EDITION) AT 100 PSIG (MINIMUM) FOR TWO HOURS. CONTRACTOR SHALL NOTIFY CITY'S ENGINEER WITHIN 48 HOURS OF PRESSURE TESTING. NO EXCEPTIONS.
9. ALL FORCE MAINS SHALL BE FLUSHED @ 3 FT PER SECOND AND 6 TIMES THE PIPE VOLUME (MINIMUM).
10. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN HEREIN AND SET FLUSH TO FINISH GRADE. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON AND NOT PVC.
11. ALL PIPE AND BACKFILL SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING OR CLASS I PIPE EMBEDMENT MATERIAL (#67 CRUSHED OR GRATED LIMEROCK OR APPROVED EQUAL) MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
12. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
13. ALL FORCE MAIN SHALL BE INSTALLED WITH INSULATED 12 GA. TRACER WIRE AND LOCATOR TAPE SHALL ON TOP OF ALL PIPE. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AS SHOWN IN THE DETAILS. LOCATOR TAPE SHALL BE MARKED "SANITARY SEWER BELOW" AND INSTALLED 12" TO 18" ABOVE THE PIPE
14. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.

GRAVITY SEWER INSTALLATION RELATED ITEMS:

1. ALL GRAVITY SEWER PIPE, MANHOLES, SERVICE LATERALS AND PIPE BEDDING SHALL BE INSTALLED ACCORDING TO THE ENGINEERING DRAWINGS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING SEWER MAINS AND SEWER LATERALS TO BE CONNECTED TO PRIOR TO CONSTRUCTION.
3. ALL GRAVITY SEWER PIPE SHALL BE PVC UNLESS SPECIFIED OTHERWISE. ALL PVC PIPE SIZES 4" TO 15" AND DEPTHS UP TO 10 FEET SHALL BE ASTM D3034 SDR-35, DEPTHS GREATER 10 FEET SHALL BE ASTM D3034 SDR-26. ALL PVC PIPE SIZES 18" TO 27" AND DEPTHS UP TO 10 FEET SHALL BE F679 SDR-35, DEPTHS GREATER 10 FEET SHALL BE F679 SDR-26.
4. ALL SEWER SERVICE LATERAL CONNECTIONS SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM THE NEAREST MANHOLE AND HAVE A 2 FEET MINIMUM SEPARATION BETWEEN MANHOLE. ALL SEWER SERVICE LATERALS CONNECTIONS TO NEW PVC SEWER PIPE SHALL BE MADE WITH GASKETED PVC TEE OR WYE FITTINGS. SADDLE CONNECTIONS SHALL NOT BE ALLOWED.
5. ALL SEWER SERVICE LATERALS SHALL BE 4 INCHES UNLESS NOTED OTHERWISE. THE MINIMUM SEWER SERVICE LATERAL PIPE SLOPE SHALL BE; 4 INCHES=2%; 6 INCHES= 1%; 8 INCHES=0.5%.
6. LOCATOR TAPE SHALL BE INSTALLED 12" TO 18" ABOVE ALL GRAVITY SEWER MAINS AND SERVICE LATERALS AND LOCATER TAPE SHALL BE MARKED "SANITARY SEWER BELOW".
7. ALL CONNECTIONS TO EXISTING SEWER MAINS AND LATERALS OF DISSIMILAR MATERIALS SHALL BE MADE WITH STRONG BACK FLEXIBLE REPAIR COUPLINGS.
8. MANHOLES SHALL BE A MINIMUM FOUR (4) FOOT DIAMETER AND CONSTRUCTED PER THE STANDARDS AND SPECIFICATIONS.
9. MANHOLE RING AND COVERS SHOULD BE 3 INCHES ABOVE GRADE IN UNPAVED AREAS. FIBERGLASS OR STAINLESS STEEL MANHOLE COVER INSERTS ARE REQUIRED AT ALL MANHOLES WITH RIM ELEVATIONS BELOW 7 FEET NAVD88.
10. ALL MANHOLE BENCHES SHALL BE REPAIRED OR REPLACED AS NECESSARY TO HAVE SMOOTH TRANSITIONS THROUGH MANHOLE.
11. ALL GRAVITY SEWER PIPING SHALL BE TESTED IN ACCORDANCE WITH UNI-B-6-98, UNIBELL PVC PIPE CORPORATION. CONSTANT PRESSURE OF 4.0 PSIG (GREATER THAN THE GROUNDWATER BACK PRESSURE).
12. ALL GRAVITY SEWER PIPE (MAINS AND LATERALS) SHALL HAVE AIR TEST AND COLOR CCTV INSPECTION COMPLETED AND APPROVED BY THE ENGINEER PRIOR TO ROADWAY RESURFACING.
13. CCTV INSPECTIONS SHALL BE COMPLETED IMMEDIATELY AFTER FLUSHING WITH CLEAN WATER. ANY DEBRIS ENCOUNTERED WILL RESULT IN A FAILED INSPECTION AND PRESSURE TEST.
14. GRAVITY SEWER PIPE SAGS SHALL NOT EXCEED MORE THAN 10% OF THE PIPE DIAMETER.
15. ALL GRAVITY SEWER LINES MUST BE VIDEOED AFTER SYSTEM IS COMPLETE AND REVIEWED AND APPROVED BY THE CITY. VIDEOS MUST BE DIGITAL FORMAT WITH SYSTEM LOCATION MAP AND INCLUDE IDENTIFICATION FOR EACH MANHOLE AND SEGMENT OF PIPE. EACH JOINT SHOULD BE ABLE TO BE VISIBLY INSPECTED THE ENTIRE 360 DEGREES PERIMETER AND ALL LATERAL CONNECTIONS SHOULD BE SHOWN.

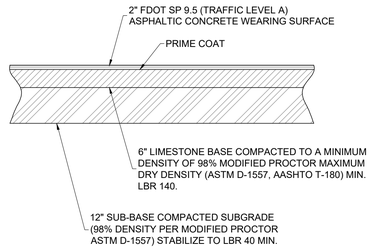
LYNN HAVE SPECIAL NOTES:

1. CONTRACTOR SHALL EXCAVATE AND VERIFY THE EXISTING WATER MAIN LOCATIONS AND SIZE PRIOR TO SCHEDULING WATER OUTAGE FOR CONNECTION.
2. CONTRACTOR SHALL CUT AND REMOVE ASPHALT ROADWAYS AS NECESSARY TO INSTALL NEW WATER MAINS, WATER SERVICE LINES AND OTHER REQUIRED UTILITY IMPROVEMENTS.
3. ALL ROADWAYS AND DRIVEWAYS SHALL BE COMPACTED AND MAINTAINED DURING CONSTRUCTION SO RESIDENTS CAN HAVE ACCESS AT ALL TIMES. ALL TEMPORARY STABILIZATION SHALL BE SMOOTH AND LEVEL.
4. PIPE TESTING SHALL BE PERFORMED WITHIN IN ONE WEEK OF COMPLETING UTILITY IMPROVEMENTS IN ANY SECTION. SEE TEST SCHEDULE FOR MORE REQUIREMENTS.
5. ALL ROADWAY, DRIVEWAY AND SIDEWALK RESTORATION SHALL BE COMPLETED WITHIN ONE WEEK OF SUCCESSFUL PIPE TESTING IN ANY SECTION.
6. ALL DISTURBED YARD AND GRASSED AREAS SHALL BE SODDED WITH CENTIPEDE.
7. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING DAMAGED SECTIONS OF CONCRETE CURB.
8. COST FOR ALL NECESSARY REMOVAL AND REPLACEMENT OF DRIVEWAYS, SIDEWALKS, AND CURBS SPECIFIED ON CONSTRUCTION DRAWINGS SHALL BE INCLUDED IN LUMP SUM BID PRICE FOR EACH SECTION.
9. CONTRACTOR SHALL REMOVE AND REPLACE ALL TREES, SHRUBS AND IRRIGATION DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT A WORK CHANGE DIRECTIVE PRIOR TO CONSTRUCTION FOR ANY ADDITIONAL COST FOR WORK REQUIRED IN LANDSCAPED AREAS.
10. CONTRACTOR SHALL PROVIDE FITTINGS AS NECESSARY TO MAINTAIN WATER MAIN SEPARATION REQUIREMENTS. CONTRACTOR SHALL RESTRAIN ALL WATER MAINS JOINTS WHERE 6' HORIZONTAL SEPARATIONS CANNOT BE MAINTAINED BETWEEN EXITING SEWER AND STORMWATER UTILITIES.
11. CONTRACTOR SHALL COMPLETE WATER SERVICE CONNECTIONS TO EXISTING METERS AFTER NEW WATER MAINS HAVE BEEN CERTIFIED AND PLACED INTO SERVICE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY OWNER TO STABILIZE POWER POLES AS THEY ARE ENCOUNTERED THROUGHOUT THE ENTIRE PROJECT.
13. REMOVAL AND REPLACEMENT OF EXISTING DRIVEWAYS AND DRIVEWAY CULVERTS SHALL BE INCLUDED IN THE BID PRICE. NEW DRIVEWAYS SHALL MATCH EXISTING MATERIALS.
14. REMOVAL AND REPLACEMENT OF EXISTING SIGNS, MAILBOXES, SODDING, IRRIGATION, LANDSCAPING, STRUCTURES, ETC. SHALL BE INCLUDED IN THE BID PRICE.
15. COMPACTION TESTING SHALL BE PERFORMED AT EACH ROADWAY CUT FOR SERVICE LATERALS AND PER FDOT SPECIFICATIONS FOR ROAD RECONSTRUCTION AND SHALL BE INCLUDED IN THE BID PRICE.
16. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL CAPACITY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES INCLUDING RECONNECTING ALL WATER AND SEWER SERVICES DAMAGED/BROKEN DURING THE INSTALLATION ON ALL PROPOSED UTILITIES AND OTHER IMPROVEMENTS, WITH NO ADDITIONAL COST TO THE OWNER.
18. THE CONTRACTOR SHALL AVOID OR MINIMIZE THE DISTURBANCE OF EXISTING TREES DURING THE INSTALLATION OF ALL WATER MAINS AND OTHER PROPOSED IMPROVEMENTS WITHIN THE RIGHT OF WAYS AND EASEMENTS. IF TREES ARE DAMAGED OR REQUIRED TO BE MOVED, THEY SHALL BE REPLACED WITH TREES OF SIMILAR SIZE AND SPECIES WITH NO ADDITIONAL COST TO THE OWNER. IF APPLICABLE, THE CONTRACTOR MAY USE THE DIRECTIONAL BORE (FOR PRESSURE PIPE) OR JACK AND BORE (FOR GRAVITY PIPE) METHODS IN LIEU OF OPEN CUTTING TO AVOID IMPACTS AT CONTRACTORS EXPENSE.
19. THE CONTRACTOR SHALL DIRECTIONAL BORE AND INSTALL HDPE PIPE UNDER ROADWAYS, DRIVEWAYS, DITCH CROSSINGS, ETC. AS SHOWN ON THE PLANS. CONTRACTOR SHALL DETERMINE NECESSARY HDPE PIPE LENGTHS, BORE ENTRY/ EXIT POINTS AND BORE PITS TO COMPLETE DIRECTIONAL BORE INSTALLATIONS.
20. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING WATER MAINS AND SERVICE LINES EXCAVATED DURING THE INSTALLATION OF THE PROPOSED WATER SYSTEM IMPROVEMENTS. ALL ABANDONED SECTIONS OF NON-EXCAVATED EXISTING WATER MAIN SHALL BE FILLED WITH FLOWABLE NON-SHRINK GROUT. ALL DEMOLITION AND FLOWABLE FILL WORK SHALL BE INCLUDED IN THE BID PRICE.
21. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A MAINTENANCE OF TRAFFIC PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. SIGNAGE SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE INCLUDED IN THE BID PRICE.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BY-PASS PUMPING AND SHALL BE INCLUDED IN THE BID PRICE.
23. CONTRACTOR SHALL PROVIDE DE-WATERING AS NECESSARY FOR THE INSTALLATION OF ALL PROPOSED IMPROVEMENTS. ALL DE-WATERING SHALL BE INCLUDED IN THE BID PRICE.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT AND MAINTAINING THE SILT FENCE, INLET PROTECTION, AND ANY OTHER EROSION CONTROL NECESSARY IN THE NPDES PERMIT GUIDELINES.

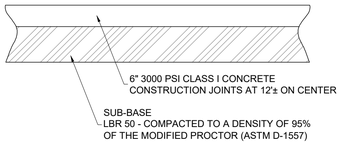
GRADING AND DRAINAGE NOTES:

1. THESE GENERAL NOTES APPLY TO ALL THE WORK IN THIS SET OF DRAWINGS.
2. ALL INDICATED ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. EXISTING ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PRODUCED BY SCR & ASSOCIATES. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME O

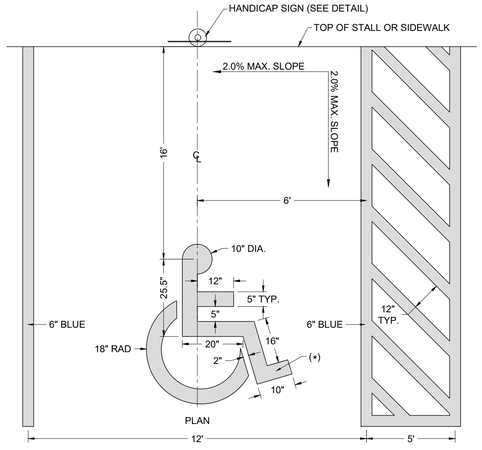
FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



ASPHALTIC PAVEMENT DETAIL
NOT TO SCALE

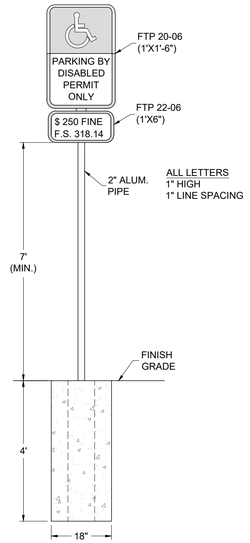


CONCRETE PAVEMENT DETAIL
NOT TO SCALE

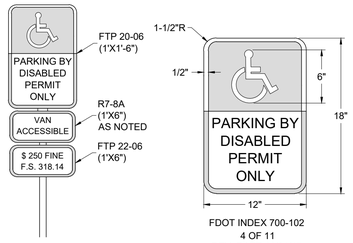


(*) INTERNATIONAL SYMBOL OF ACCESSIBILITY DISPLAY CONDITION: THE SYMBOL CONTRAST SHALL BE LIGHT ON DARK, OR DARK ON LIGHT.

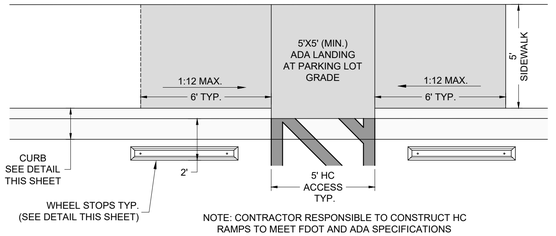
HANDICAP STRIPING DETAIL
NOT TO SCALE



HANDICAP SIGN DETAIL
NOT TO SCALE

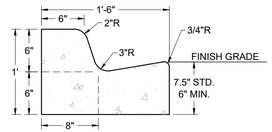


FDOT INDEX 700-102
4 OF 11
REV. DATE:11/01/17

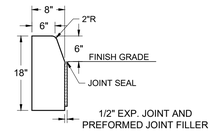


NOTE: CONTRACTOR RESPONSIBLE TO CONSTRUCT HC RAMPS TO MEET FDOT AND ADA SPECIFICATIONS

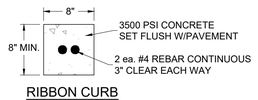
TYPICAL ADA SIDEWALK RAMP
NOT TO SCALE



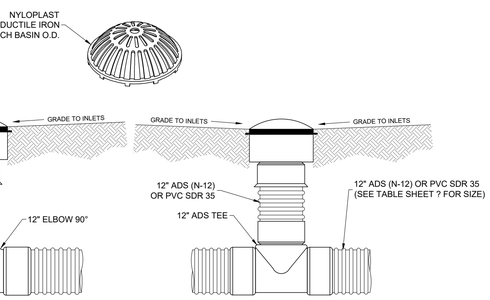
MODIFIED TYPE "F" CURB & GUTTER
NOT TO SCALE



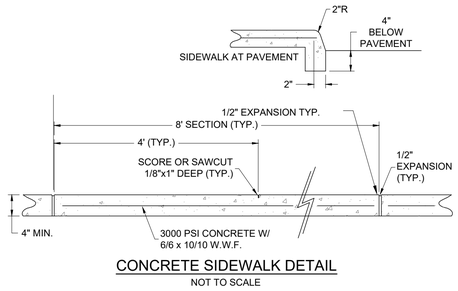
TYPE "D" CURB DETAIL
NOT TO SCALE



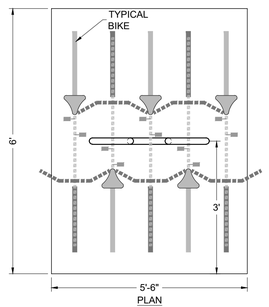
RIBBON CURB
NOT TO SCALE

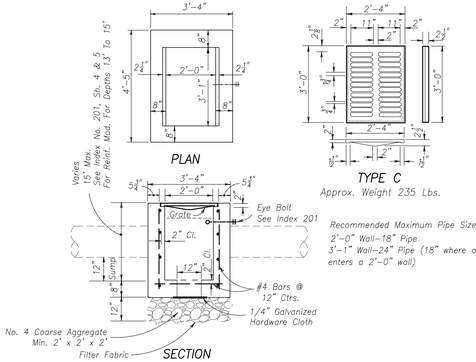


ADS INLINE DRAINAGE STRUCTURE
NOT TO SCALE

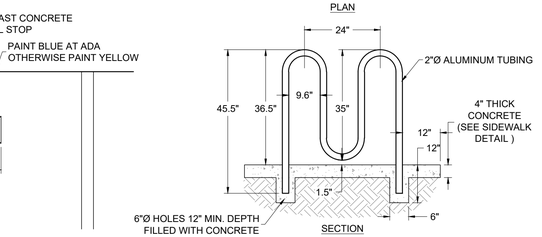


CONCRETE SIDEWALK DETAIL
NOT TO SCALE

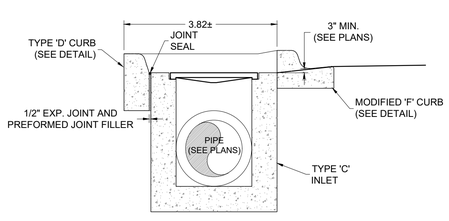




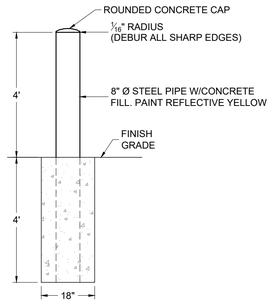
FDOT TYPE "C" INLET
NOT TO SCALE



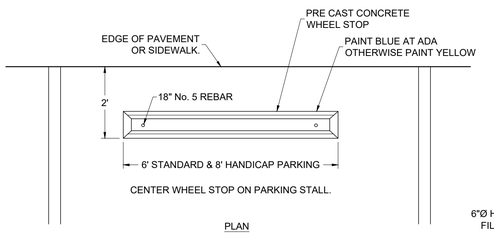
BICYCLE RACK DETAIL
NOT TO SCALE



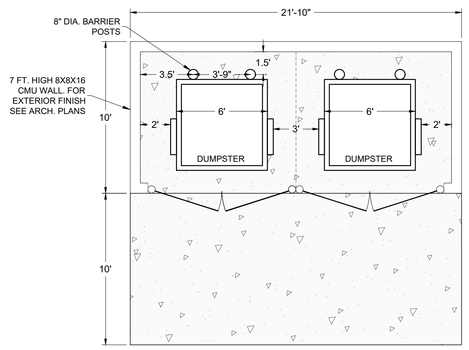
TYPE "C" INLET WITH "D" CURB DETAIL
NOT TO SCALE



8" DIA. BARRIER POST DETAIL
NOT TO SCALE



WHEEL STOP DETAIL
NOT TO SCALE



DUMPSTER DETAIL
NOT TO SCALE

SIGN POST DETAIL
NOT TO SCALE



STOP SIGN TO BE REFLECTIVE

NOTE:
ALL SIGNS TO BE INSTALLED PER FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO BE MOUNTED TO ALUMINUM PIPE. (SEE SIGN POST DETAIL)

3.5" ALUMINUM PIPE

REV	DATE	BY	REVISIONS
NOT			RELEASED FOR CONSTRUCTION BY: DATE:

SCALE:	AS NOTED
DESIGNED BY:	JHS
DRAWN BY:	REF
REVIEWED BY:	JHS
ISSUE DATE:	DECEMBER 2025
ACAD FILE NAME:	1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

CONSTRUCTION DETAILS
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66506
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON LICENSE NO. 95046 5-Feb-26 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NUMBER 16

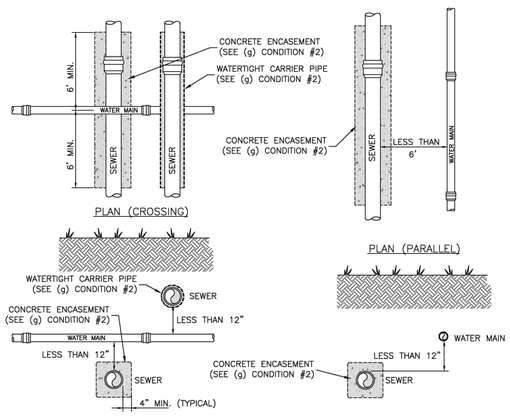
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 CONSTRUCTION DETAILS Sheet 16

Date: 2/5/2026 1:54 PM File: p:\1915.01 wsdt rehab\lynn haven\1 cad\dwfs\dwf Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



SEWERS AND FORCE MAINS SHALL BE LAID AT LEAST TEN FEET (OUTSIDE TO OUTSIDE) HORIZONTALLY FROM WATER MAINS.
PROVIDED THE APPLICANT DEMONSTRATES THERE IS NO REASONABLE ALTERNATIVE, THE CITY MAY APPROVE SMALLER HORIZONTAL SEPARATION DISTANCES FOR SEWERS IF ONE OF THE FOLLOWING CONDITIONS IS MET:

1. THE TOP OF THE SEWER IS INSTALLED AT LEAST 18" INCHES BELOW THE BOTTOM OF THE POTABLE WATER LINE.
2. THE SEWER IS ENCASED IN WATERTIGHT CARRIER PIPE OR CONCRETE.
3. BOTH THE SEWER AND THE WATER MAIN ARE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT PIPE COMPLYING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS AND PRESSURE TESTED TO 150 psi TO ASSURE WATER TIGHTNESS.

SEWER ENCASEMENT DETAIL

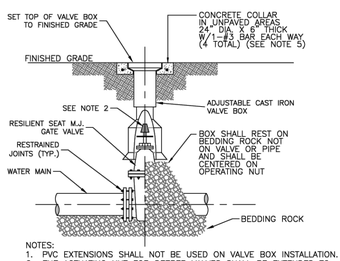
NOT TO SCALE

REV	DATE	BY	REVISIONS
3	15 MAY 17	RML	REVISED DETAIL
2	25 MAR 13	REF/SHS	REVISED NOTES
1	20 JAN 11	REF/SHS	REV. FDEP RULES & DETAIL TO MATCH

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

SEWER ENCASEMENT DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 1 OF 32 | DETAIL W-1



NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVE EXTENSION SHALL HAVE SET SCREW INTO 2" OPERATING NUT.
4. ALL BELOW GRADE NUTS AND BOLTS SHALL BE STAINLESS STEEL.
5. ALL VALVE COVERS TO BE PAINTED WITH EPOXY PAINT.
6. WATERMAIN (BLUE), FORCEMAIN (GREEN), FIREWATER (RED) AND RE-USE (PURPLE)

GATE VALVE AND BOX DETAIL

NOT TO SCALE (W-2)

WATER AND REUSE VALVES:
1. 2"-12": SHALL BE AWWA C509 DUCTILE IRON EPOXY COATED RESILIENT SEATED GATE VALVES.
2. 16" AND LARGER: SHALL BE AWWA C504 DUCTILE IRON EPOXY COATED RESILIENT SEATED BUTTERFLY VALVES.

REV	DATE	BY	REVISIONS
2	14 MAR 17	SEP	REVISED NOTES
1	03 JUN 11	REF/SHS	REVISED DETAIL

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

GATE VALVE AND BOX DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 2 OF 32 | DETAIL W-2

UTILITY TESTING AND INSPECTION REQUIREMENTS

1. BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH AWWA STANDARDS C651 AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES.
2. PRESSURE AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.
   WATER MAINS 2 HRS @ 150 PSI,
   FORCE MAINS 1 HR @ 100 PSI.
   ALL WATER MAINS AND FORCE MAINS SHALL BE FLUSHED FOR AT LEAST THAT AMOUNT OF TIME NEEDED TO FLUSH (2) TIMES THE PIPE VOLUME AFTER (3)fps VELOCITY IS REACHED, OR UNTIL CLEAR. MAXIMUM LENGTH OF PIPE BETWEEN FLUSHING ASSEMBLIES SHALL BE 5,000 FEET. BEFORE BEGINNING THE ACTUAL PRESSURE TESTING, THE CONTRACTOR SHALL NOTIFY THE CITY, PRESSURE TESTING WILL BE DONE IN THE PRESENCE OF THE CITY, AND WILL NOT BE CONSIDERED COMPLETE UNTIL APPROVED IN WRITING BY THE CITY.

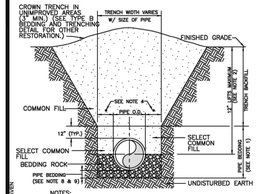
Pipe Dia., in.	Min. Time, min:s	Length for Minimum Time, ft.	Time for Longer Length,s	Specification Time for Length (L) Shown, min:s							
				100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	350 ft.	400 ft.	450 ft.
4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10.470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

UTILITY TESTING AND INSPECTION REQUIREMENTS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 5 OF 32 | DETAIL W-5

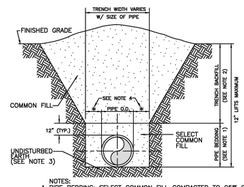


NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE ENGINEER. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 24", AND 6" MINIMUM FOR PIPE DIAMETER 24" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL ALSO LOWN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE ENGINEER SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

TYPE A BEDDING AND TRENCHING DETAIL

NOT TO SCALE

NOTE:
USE TYPE "A" BEDDING WHEN PIPING UNDER ROADWAY, PARKING LOT, STRUCTURE OR AS DIRECTED BY CITY.



NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.

TYPE B BEDDING AND TRENCHING DETAIL

NOT TO SCALE

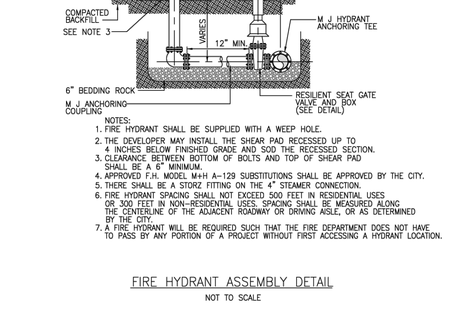
NOTE:
USE TYPE "B" BEDDING WHEN PIPING NOT UNDER ROADWAY, PARKING LOT, STRUCTURE OR AS APPROVED BY CITY.

REV	DATE	BY	REVISIONS
1	25 MAR 13	REF/SHS	ADDED DETAIL

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

BEDDING AND TRENCHING DETAILS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 6 OF 32 | DETAIL W-6



NOTES:
1. FIRE HYDRANT SHALL BE SUPPLIED WITH A WEEP HOLE.
2. THE DEVELOPER MAY INSTALL THE SHEAR PAD RECESSED UP TO 4 INCHES BELOW FINISHED GRADE AND SOD THE RECESSED SECTION.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 6" MINIMUM.
4. APPROVED F.H. MODEL M+H A-129 SUBSTITUTIONS SHALL BE APPROVED BY THE CITY.
5. THERE SHALL BE A STORZ FITTING ON THE 4" STEAMER CONNECTION.
6. FIRE HYDRANT SPACING SHALL NOT EXCEED 500 FEET IN RESIDENTIAL USES OR 300 FEET IN NON-RESIDENTIAL USES. SPACING SHALL BE MEASURED ALONG THE CENTERLINE OF THE ADJACENT ROADWAY OR DRIVING AISLE, OR AS DETERMINED BY THE CITY.
7. A FIRE HYDRANT WILL BE REQUIRED SUCH THAT THE FIRE DEPARTMENT DOES NOT HAVE TO PASS BY ANY PORTION OF A PROJECT WITHOUT FIRST ACCESSING A HYDRANT LOCATION.

FIRE HYDRANT ASSEMBLY DETAIL

NOT TO SCALE

REV	DATE	BY	REVISIONS
1	17 FEB 11	REF/SHS	REVISED NOTE No. 4 (CLOW)

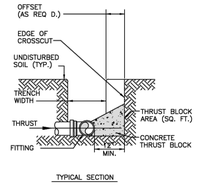
CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

FIRE HYDRANT ASSEMBLY DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 8 OF 32 | DETAIL W-8

FORCE MAIN / WATER MAIN

FORCE MAIN PIPE	FORCE MAIN AREA	CONNECTION	WATER MAIN PIPE	WATER MAIN AREA	SEE SPECIFICATIONS FOR INSTALLATION
4	1.0 SF	WYE	4	1.4 SF	NOTES: 1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL. 2. EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. JOINTS SHALL NOT BE COVERED BY THRUST BLOCKS. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM (8 MIL.) PRIOR TO PLACING CONCRETE THRUST BLOCK. 3. ROUGH BLOCKING FOURMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS, AS REQUIRED. 4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT. 5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE AND/OR SOIL RESISTANCE BEARING IS LESS THAN 1500 PSF. 6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE. 7. WATER MAIN DESIGN PRESSURE 150 PSI. 8. FORCE MAIN DESIGN PRESSURE 100 PSI. 9. USE 4" FM AREA FOR 2" FM. 10. WHERE A TIFFING IS USED TO MAKE A VERTICAL BEND, ANCHOR THE FITTING TO A TRUST BLOCK BRACED AGAINST THE UNDISTURBED SOIL. THE THRUST BLOCK SHOULD HAVE ENOUGH RESISTANCE TO WITHSTAND UPWARD AND OUTWARD THRUSTS AT THE FITTING.
6	1.9 SF		6	2.9 SF	
8	3.3 SF		8	4.9 SF	
10	4.9 SF		10	7.4 SF	
12	7.0 SF		12	10.5 SF	
4	1.2 SF	TEE	4	1.8 SF	
6	2.5 SF		6	3.7 SF	
8	4.3 SF		8	6.4 SF	
10	6.5 SF		10	9.7 SF	
12	9.1 SF		12	13.7 SF	
4	1.0 SF	CROSS	4	2.6 SF	
6	2.0 SF		6	5.3 SF	
8	4.0 SF		8	9.1 SF	
10	5.0 SF		10	13.7 SF	
12	8.0 SF		12	19.4 SF	
4	1.0 SF	11-1/4° BEND	4	1.0 SF	
6	1.0 SF		6	1.0 SF	
8	1.7 SF		8	1.3 SF	
10	2.5 SF		10	1.9 SF	
12	3.5 SF		12	2.7 SF	
4	1.0 SF	22-1/2° BEND	4	1.0 SF	
6	1.0 SF		6	1.5 SF	
8	1.7 SF		8	2.5 SF	
10	2.5 SF		10	3.8 SF	
12	3.5 SF		12	5.3 SF	
4	1.0 SF	45° BEND	4	1.4 SF	
6	1.9 SF		6	2.9 SF	
8	3.3 SF		8	4.9 SF	
10	4.9 SF		10	7.4 SF	
12	7.0 SF		12	10.5 SF	
4	1.7 SF	90° BEND	4	2.6 SF	
6	3.5 SF		6	5.3 SF	
8	6.1 SF		8	9.1 SF	
10	9.1 SF		10	13.7 SF	
12	12.9 SF		12	19.4 SF	
4	1.2 SF	WOOD BLOCKING (TYP.) END PLUG	4	1.8 SF	
6	2.5 SF		6	3.7 SF	
8	4.3 SF		8	6.4 SF	
10	6.5 SF		10	9.7 SF	
12	9.1 SF		12	13.7 SF	



TYPICAL SECTION

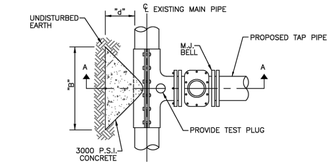
THRUST BLOCK SCHEDULE

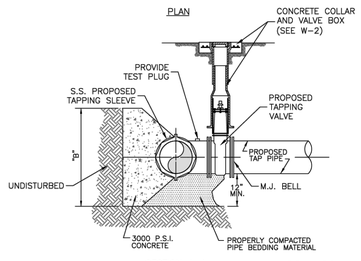
REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

THRUST BLOCK SCHEDULE
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 9 OF 32 | DETAIL W-9





SECTION A-A

FOR DIMENSIONS "B" AND "d" SEE THRUST BLOCK DETAILS

NOTES:

1.) NO CUTS SHALL BE MADE BEFORE:
   (A) A TEST OF 180 OR 200 P.S.I. FOR 60 MINUTES IS MADE.
   (B) ALL FITTINGS TO BE WRAPPED WITH 20 MIL VISQUEEN AT THRUST BLOCK
   (C) ALL TAPS TO BE MADE BY THE CONTRACTOR AND MATERIAL TO BE FURNISHED BY THE CONTRACTOR

2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.

TAPPING SLEEVE & VALVE BLOCKING DETAIL

NOT TO SCALE (W-10)

REV	DATE	BY	REVISIONS
1	03 JUN 11	REF	REVISED DETAIL TEXT

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

TAPPING SLEEVE AND VALVE BLOCKING DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 10 OF 32 | DETAIL W-10

PIPE JOINT RESTRAINT TABULATION
(SHOWING DISTANCE IN FEET FROM THE FITTING TO BE RESTRAINED TO THE LAST RESTRAINING GLAND REQUIRED)

PIPE SIZE	HORIZONTAL BEND 90 DEG.	45 DEG.	22.5 DEG.	11.25 DEG.	TEE'S (NOMINAL SIZE) 4"	6"	8"	10"	12"
4"	18	7	4	2	3	1	1	1	1
6"	25	10	5	2	50	18	6	1	1
8"	32	13	6	3	53	44	35	24	14
10"	38	16	8	4	71	64	56	48	40
12"	45	19	9	4	89	83	77	70	63

PIPE SIZE	REDUCER 4"	6"	8"	10"	12"	PIPE SIZE	DEAD END	VERTICAL OFFSET
4"	X	X	X	X	X	4"	39	16
6"	28	X	X	X	X	6"	55	23
8"	52	30	X	X	X	8"	72	30
10"	70	53	29	X	X	10"	86	36
12"	88	74	54	50	X	12"	102	42

NOTES:

PIPE SIZES FOR TEE'S ARE THE BRANCH SIZE

PIPE JOINT RESTRAINT TABULATION

NOT TO SCALE

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

PIPE JOINT RESTRAINT TABULATION
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 16 MAY 2024 | SHEET NO. 11 OF 32 | DETAIL W-11

THIS DOCUMENT IS COPYRIGHTED AND IS THE PROPERTY OF THE CITY OF LYNN HAVEN. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE CITY OF LYNN HAVEN

REV	DATE	BY	REVISIONS
NOT	RELEASED FOR CONSTRUCTION BY:		DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

UTILITY DETAILS
REHABILITATION FACILITY
AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethn B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON — LICENSE — NO. 95046 — 5-Feb-26 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SHEET NUMBER 17

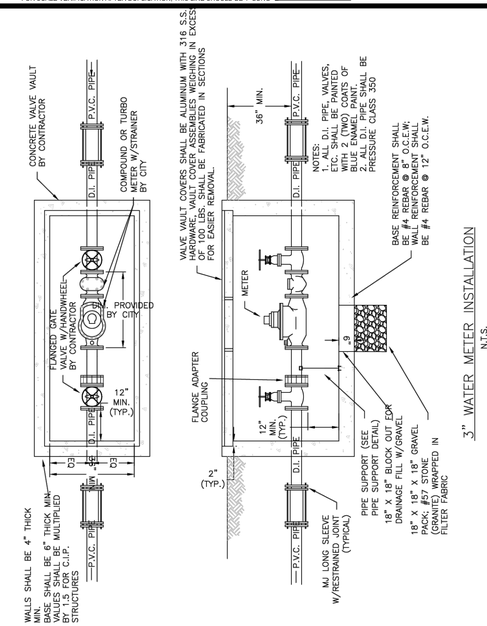
PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 UTILITY DETAILS Sheet 17

Date: 2/6/2026 1:54 PM File: s:\1915.01 walt nesbit\lynn haven\1 civil\2dfiles\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG



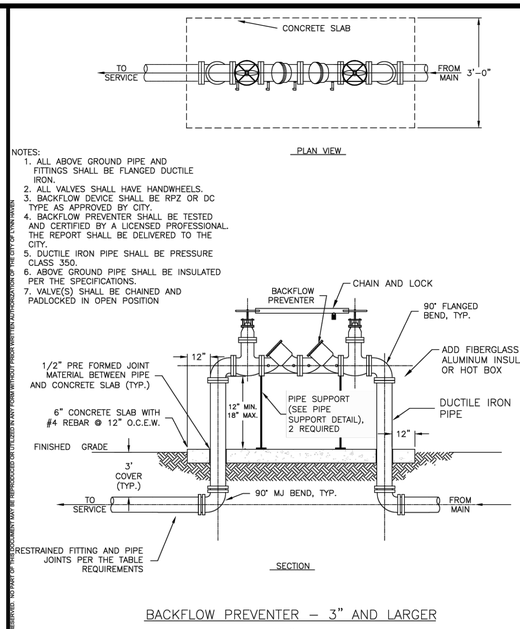
3" WATER METER INSTALLATION
N.T.S.

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

3 INCH WATER METER
INSTALLATION DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 18 OF 32
DETAIL W-18



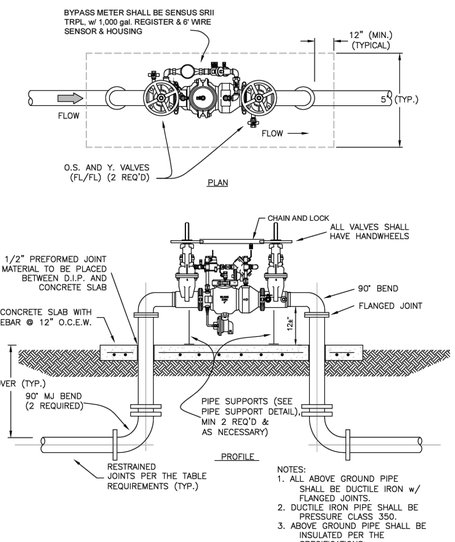
BACKFLOW PREVENTER – 3" AND LARGER
N.T.S.

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

BACKFLOW PREVENTER
3 INCH AND LARGER
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 19 OF 32
DETAIL W-19



DOUBLE DETECTOR CHECK VALVE ASSEMBLY
N.T.S.

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

DOUBLE DETECTOR
CHECK VALVE ASSEMBLY
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 20 OF 32
DETAIL W-20

WATER AND REUSE VALVES

1.) 12" AND LESS SHALL BE EPOXY COATED RESILIENT SEAT GATE VALVES.
2.) 16" AND ABOVE SHALL BE EPOXY COATED RESILIENT BUTTERFLY VALVES.

REV	DATE	BY	REVISIONS
2	16 MAY 2024	CBG	FORMERLY W-26
1	03 JUN 11	REF	REV. SHT. NO. TO ADD DIR. BORE DETAIL

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

WATER AND REUSE
VALVE NOTES
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 30 OF 32
DETAIL W-30

POTABLE AND REUSE WATER MAINS

1. PVC PIPE 3" AND LESS DIAMETER SHALL BE ASTM DD2241, SDR–21 (200PSI).
2. PVC PIPE 4"–12" SHALL BE AWWA C900 DR18 (PC–235PSI).
3. PVC PIPE GREATER THAN 12" SHALL BE AWWA C905 DR18 (PC–235PSI).
4. FITTINGS AND VALVES 4" AND GREATER SHALL BE MECHANICAL JOINT DUCTILE IRON (250 PSI MIN.).
5. MECHANICAL JOINT RESTRAINTS SHALL BE UTILIZED TO RESTRAIN NEW PIPE AND FITTINGS.
6. CONCRETE THRUST BLOCKS SHALL BE UTILIZED TO RETRAIN EXISTING PIPES AND FITTINGS.
7. ALL POTABLE WATER MAINS SHALL BE COLOR BLUE. ALL RECLAIMED WATER MAINS SHALL BE COLOR PURPLE.
8. ALL FLUSHING REQUIREMENTS PER AWWA STANDARDS (3 fps MINIMUM., 2 X PIPE VOLUME MINIMUM.)
9. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C600 (LATEST EDITION) AT 150 PSIG (MINIMUM) FOR TWO HOURS.
10. ALL WATER MAINS REQUIRE DISINFECTION PER AWWA STANDARD C651.
11. DUCTILE IRON PIPE AND FITTINGS FOR POTABLE WATER AND REUSE MAINS SHALL BE CEMENT LINED IN ACCORDANCE WITH ANSI/AWWA C104/A21–4.

REV	DATE	BY	REVISIONS
4	16 MAY 2024	CBG	FORMERLY W–27
3	14 MAR 17	SEP	REVISED NOTES
2	03 JUN 11	REF	REV. SHT. NO. TO ADD DIR. BORE DETAIL
1	20 JAN 11	REF/LMS	ADDED NOTE 10

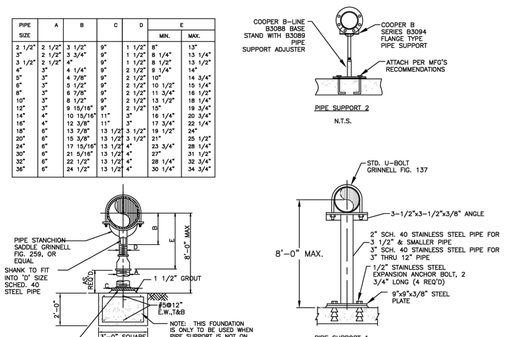
CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

POTABLE AND REUSE
WATER MAINS NOTES
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 31 OF 32
DETAIL W-31

NOTES:
1) CARBON STEEL COMPONENTS SHALL BE COATED AS FOLLOWS: PRIMER – TNEMEC SERIES 91 H20 HYDRO–ZINC, 2.5–3.5 MILS; INTERMEDIATE COAT – TNEMEC SERIES 66 EPOXOLINE, 3.0–5.0 MILS; TOP COAT – SERIES 1074U OR 1075U ENDURA–SHIELD II, 2.0–3.0 MILS; TOTAL MINIMUM DFT = 7.5 MILS; TOTAL COATS = 3

PIPE SIZE	A	B	C	D	E MIN.	E MAX.
2 1/2"	2 1/2"	3 1/2"	9"	1 1/2"	8"	13"
3"	2 1/2"	3 3/4"	9"	1 1/2"	8 1/4"	13 1/4"
3 1/2"	2 1/2"	4"	9"	1 1/2"	8 1/2"	13 1/2"
4"	3"	4 1/4"	9"	2 1/2"	8 1/4"	14"
5"	3"	4 7/8"	9"	2 1/2"	10"	14 3/4"
6"	3"	5 1/2"	9"	2 1/2"	10 1/2"	15 1/4"
8"	3"	6 7/8"	9"	2 1/2"	11 3/4"	16 1/2"
10"	3"	8 1/2"	9"	2 1/2"	13 1/2"	18 1/4"
12"	3"	9 15/16"	9"	2 1/2"	15"	19 3/4"
14"	4"	10 15/16"	11"	3"	16 1/4"	20 3/4"
16"	4"	12 3/8"	11"	3"	17 3/4"	22 1/4"
18"	6"	13 7/8"	13 1/2"	3 1/2"	19 1/2"	24"
20"	6"	15 3/8"	13 1/2"	3 1/2"	21"	25 1/2"
24"	6"	17 15/16"	13 1/2"	4"	23 3/4"	28 1/4"
30"	6"	21 5/16"	13 1/2"	4"	27"	31 1/2"
36"	6"	25 1/2"	13 1/2"	4"	32 1/4"	38 1/4"
36"	6"	24 1/2"	13 1/2"	4"	30 1/4"	34 3/4"



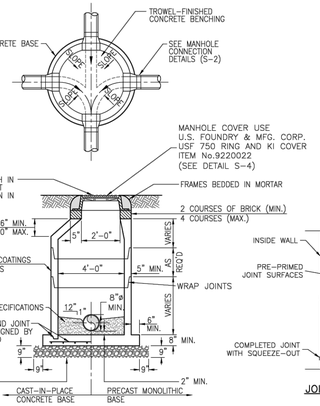
PIPE SUPPORTS
N.T.S.

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

PIPE SUPPORTS
DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER
DWN BY: REF
DATE: 16 MAY 2024
SHEET NO. 32 OF 32
DETAIL W-32



NOTES:
1. MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24".
2. DROP CONNECTIONS MAY BE ALLOWED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
3. APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE.
4. GROUT INSIDE JOINT AREAS OF NEW SEWER MANHOLES
5. ALL MANHOLES SHALL HAVE INTEGRALLY CAST HDPE LINERS (HANSON OR APPROVED EQUAL)

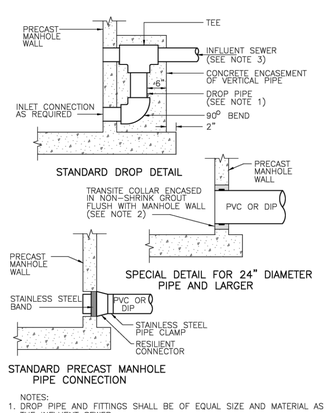
PRECAST CONCRETE MANHOLE
PLAN AND SECTION

REV	DATE	BY	REVISIONS
2	25 MAR 13	REF/LHS	REVISED NOTES
1	20 JAN 11	REF/LMS	REV. MH CVR & ADDED JOINT DETAIL

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

PRECAST CONCRETE MANHOLE
PLAN AND SECTION
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 1 OF 20
DETAIL S1



NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.

MANHOLE CONNECTION DETAILS
NOT TO SCALE

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN, FL — TECHNICAL STANDARDS MANUAL

MANHOLE CONNECTION
DETAILS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER
DWN BY: REF
DATE: 30 APR 07
SHEET NO. 2 OF 20
DETAIL S-2

REV	DATE	BY	REVISIONS
NOT		RELEASED FOR CONSTRUCTION BY:	DATE:

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

UTILITY DETAILS
REHABILITATION FACILITY AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068
DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON — LICENSE — NO. 95046 — 5-Feb-26 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SHEET NUMBER 18

PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 UTILITY DETAILS Sheet 18

Date: 2/5/2026 1:54 PM File: p:\1915.01 east rehab\lynn haven\1.0\e3d\detail\Drawings\1915.01-E1.dwg

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

MANHOLE LEAKAGE TESTS

MANHOLES SHALL BE TESTED FOR LEAKAGE BY NEGATIVE AIR PRESSURE AS PRESCRIBED IN ASTM C 1244 TO DEMONSTRATE THE INTEGRITY OF THE INSTALLED MATERIALS AND THE CONSTRUCTION PROCEDURES. THIS TEST METHOD SHALL BE USED FOR TESTING CONCRETE MANHOLE SECTIONS UTILIZING MORTAR, MASTIC, OR GASKETED JOINTS AND IS INTENDED TO DEMONSTRATE THE CONDITION OF THE CONCRETE MANHOLES PRIOR TO BACKFILL. IN ACCORDANCE WITH THE ASTM C 1244, THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A VACUUM OF 10 IN. HG SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED, AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN. HG. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. HG TO 9 IN. HG MEETS OR EXCEEDS THE VALUES INDICATED IN ASTM C 1244 TABLE 1, SHOWN BELOW. IF THE MANHOLE FAILS THE INITIAL TEST, NECESSARY REPAIRS SHALL BE MADE BY AN APPROVED METHOD. THE MANHOLE SHALL THEN BE RETESTED UNTIL A SATISFACTORY TEST IS OBTAINED.

TABLE 1 Minimum Test Times for Various Manhole Diameters in Seconds

	Diameter, in.								
	30	33	36	42	48	54	60	66	72
DEPTH (FT)	Time, in seconds								
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	46	51	57
16	22	24	29	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81
22	31	33	39	46	55	64	72	79	89
24	33	36	42	51	59	64	78	87	97
26	36	39	46	55	64	75	85	94	105
28	39	42	49	59	69	81	91	101	113
30	42	45	53	63	74	87	98	108	121

REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

UTILITY TESTING AND INSPECTION REQUIREMENTS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 3 OF 20 | DETAIL S-3

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg

LEAKAGE TESTS

LINES SHALL BE TESTED FOR LEAKAGE BY LOW PRESSURE AIR TESTING, INFILTRATION TESTS OR EXFILTRATION TESTS, AS APPROPRIATE. LOW PRESSURE AIR TESTING FOR VITRIFIED CLAY PIPES SHALL BE AS PRESCRIBED IN ASTM C 828. LOW PRESSURE AIR TESTING FOR CONCRETE PIPES SHALL BE AS PRESCRIBED IN ASTM C 828. LOW PRESSURE AIR TESTING FOR PVC PIPE SHALL BE AS PRESCRIBED IN ASTM F1417, AND PRESSURE DROP LIMITS SHALL BE DETERMINED BY USING ASTM F1417 TABLE 1, SHOWN BELOW. LOW PRESSURE AIR TESTING PROCEDURES FOR OTHER PIPE MATERIALS SHALL USE THE PRESSURES AND TESTING TIMES PRESCRIBED IN ASTM C 828 AND ASTM C 924, AFTER CONSULTATION WITH THE PIPE MANUFACTURER. PRIOR TO INFILTRATION OR EXFILTRATION TESTS, THE TRENCH SHALL BE BACKFILLED UP TO AT LEAST THE LOWER HALF OF THE PIPE. IF REQUIRED, SUFFICIENT ADDITIONAL BACKFILL SHALL BE PLACED TO PREVENT PIPE MOVEMENT DURING TESTING, LEAVING THE JOINTS UNCOVERED TO PERMIT INSPECTION. VISIBLE LEAKS ENCOUNTERED SHALL BE CORRECTED REGARDLESS OF LEAKAGE TEST RESULTS. WHEN THE WATER TABLE IS 2 FEET OR MORE ABOVE THE TOP OF THE PIPE AT THE UPPER END OF THE PIPELINE SECTION TO BE TESTED, INFILTRATION SHALL BE MEASURED USING A SUITABLE WEIR OR OTHER DEVICE ACCEPTABLE TO THE CONTRACTING OFFICER. WHEN THE CONTRACTING OFFICER DETERMINES THAT INFILTRATION CANNOT BE PROPERLY TESTED, AN EXFILTRATION TEST SHALL BE MADE BY FILLING THE LINE TO BE TESTED WITH WATER SO THAT A HEAD OF AT LEAST 2 FEET IS PROVIDED ABOVE BOTH THE WATER TABLE AND THE TOP OF THE PIPE AT THE UPPER END OF THE PIPELINE TO BE TESTED. THE FILLED LINE SHALL BE ALLOWED TO STAND UNTIL THE PIPE HAS REACHED ITS MAXIMUM ABSORPTION, BUT NOT LESS THAN 4 HOURS. AFTER ABSORPTION, THE HEAD SHALL BE RE-ESTABLISHED. THE AMOUNT OF WATER REQUIRED TO MAINTAIN THIS WATER LEVEL DURING A 2-HOUR TEST PERIOD SHALL BE MEASURED. LEAKAGE AS MEASURED BY EITHER THE INFILTRATION TEST OR EXFILTRATION TEST SHALL NOT EXCEED 0.15 GALLONS PER INCH OF PIPE DIAMETER PER 100 FEET OF PIPELINE PER HOUR. WHEN LEAKAGE EXCEEDS THE MAXIMUM AMOUNT SPECIFIED, SATISFACTORY CORRECTION SHALL BE MADE AND RETESTING ACCOMPLISHED. TESTING, CORRECTION, AND RETESTING SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

TABLE 1 MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q=0.0015

NOTE 1 – SEE PRACTICE UNI-B-6-90.
NOTE 2 – CONSULT WITH PIPE AND APPURTENANCE MANUFACTURER FOR MAXIMUM TEST PRESSURE FOR PIPE SIZE GREATER THAN 30 IN. DIAMETER.

Pipe Dia., in.	Min. Time, mins	Length for Minimum Time, ft.	Time for Longer Length,s	Specification Time for Length (L) Shown, mins							
				100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	350 ft.	400 ft.	450 ft.
4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520 L	7:34	7:34	7:34	7:34	7:34	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10.470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17.308 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46

GRAVITY SEWER

1.) PVC PIPE 4"–15" DIAMETER SHALL BE ASTM D3034, (SDR–35.)
2.) ALL SEWER LINES SHALL BE COLOR GREEN OR BROWN.
3.) ALL GRAVITY SEWER PIPING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM C–828 FOR CLAY PIPE, ASTM C–924 FOR CONCRETE PIPE, ASTM F–1417 FOR PLASTIC PIPE AND ASTM D–1244 FOR CONCRETE SEWER MANHOLES, EXFILTRATION OR INFILTRATION TESTS SHALL BE PREFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET. THE LEAKAGE EXFILTRATION OR INFILTRATION SHALL NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
4.) FIBERGLASS OR STAINLESS MANHOLE COVER INSERTS ARE REQUIRED AT ALL MANHOLES WITH RIM ELEVATIONS BELOW 7 FEET NGVD.
5.) MANHOLE RINGS AND COVER SHOULD BE 3 INCHES ABOVE GRADE IN UNPAVED AREAS TO PREVENT STORMWATER INFLOW.
6.) AFTER CURBING AND PAVEMENT CONSTRUCTION PROVIDE TO CITY FULL VIDEO OF MANHOLES & GRAVITY PIPING (MAINS & LATTERALS) ON COMPACT DISK. ALSO INCLUDE TEXT REPORT. THE CITY RECCOMENDS THAT PRE–CURB/PAVEMENT VIDEO BE PERFORMED FOR CONTRACTOR Q.A.

REV	DATE	BY	REVISIONS
1	20 JAN 11	REF/JHS	REV. SHT. NO. TO ADD SVR. BORE DETAIL

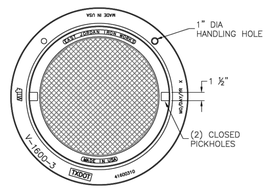
CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

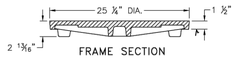
GRAVITY SEWER NOTES
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 18 OF 20 | DETAIL S-18

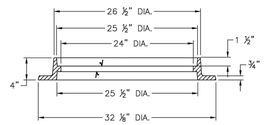
Date: 2/5/2026 1:54 PM File: p:\1915.01 east rehab\lyn haven\1.civil\dwfiles\Drawings\1915.01-E1.dwg

NOTE:
COVER TO INCLUDE SANITARY
OR STORM IMPRINT





FRAME SECTION



RING SECTION

PRODUCT NUMBER
41600306

CATALOG NUMBER
V1600-3

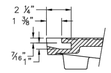
LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

ESTIMATED WEIGHT
COVER: 135 LBS
FRAME: 118 LBS
UNIT: 253 LBS

MATERIAL SPECIFICATION
COVER - GRAY IRON
ASTM A48 CL35B
FRAME - GRAY IRON
ASTM A48 CL35B

REFERANCE INFORMATION
41600310
41600320



PICKHOLE DETAIL

√ DESIGNATES MACHINED SURFACE

NOTE: FRAME IS REVERSIBLE. WHEN ORDERING, SPECIFY TOP FLANGE OR BOTTOM FLANGE

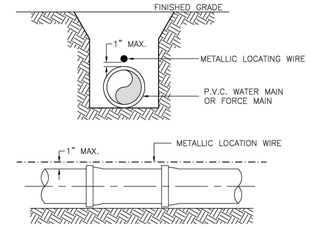
REV	DATE	BY	REVISIONS
2	15 MAY 14	REF/JHS	REVISED MANHOLE FRAME DETAIL
1	20 JAN 11	REF/JHS	ADDED MH. CVR. NOTE

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

MANHOLE ASSEMBLY
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 4 OF 20 | DETAIL S-4

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg



NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. USE DUCT TAPE AS NECESSARY TO HOLD WIRE ON THE TOP OF THE PIPE.
4. ALL SPLICES SHALL BE MADE USING A WATER–TIGHT SEALING METHOD APPROVED BY THE CITY.

PVC PIPE LOCATING WIRE DETAIL

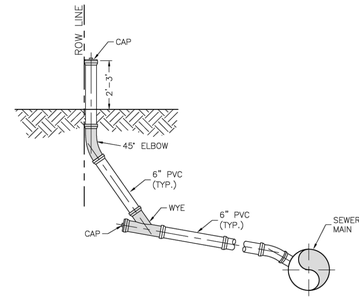
REV	DATE	BY	REVISIONS

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

PVC PIPE LOCATING
WIRE DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 5 OF 20 | DETAIL S-5

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg



1) PROVIDE LOCATE WIRE ALONG FULL LENGTH OF LATERAL (SEE S–5)

SEWER LATERAL DETAIL
NOT TO SCALE

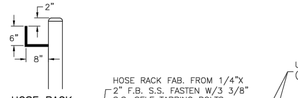
REV	DATE	BY	REVISIONS
1	20 JAN 11	REF	REVISED NOTE 1

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

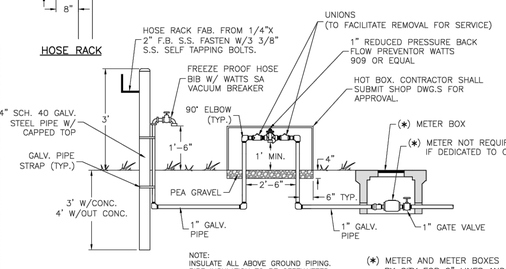
SEWER LATERAL
DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: SEWER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 6 OF 20 | DETAIL S-6

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg



HOSE RACK



NOTE:
INSULATE ALL ABOVE GROUND PIPING. PIPE INSULATION TO BE CERTIANTEED 500 SNAP ON W/ AWS OR EQUAL.

(*) METER AND METER BOXES BY CITY FOR 2" LINES AND SMALLER

LIFT STATION
WATER SERVICE DETAIL

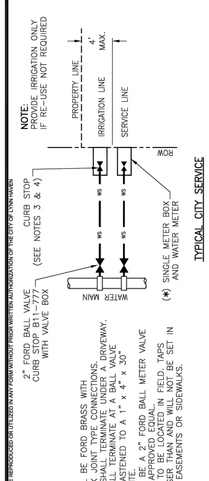
REV	DATE	BY	REVISIONS
1	05 JUL 11	REF/JHS	ADDED METER BOX NOTE

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

LIFT STATION
WATER SERVICE DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: LIFTSTATIONS | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 4 OF 6 | DETAIL LS-4

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg



1–1/2" & 2" WATER METER INSTALLATION DETAILS
NOT TO SCALE

REV	DATE	BY	REVISIONS
1	17 JULY 05	RAL	ADDED CITY NOTE, MOVED ROW LINE
0	03 JUN 11	REF/JHS	REVISED DETAIL ADDED NOTES

CITY OF LYNN HAVEN TECHNICAL STANDARDS MANUAL

1–1/2" & 2" WATER METER
INSTALLATION DETAILS
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN FLORIDA

CAD FILE: WATER | DWN BY: REF | DATE: 30 APR 07 | SHEET NO. 15 OF 27 | DETAIL W-15

Date: Jan 24, 2020, 11:44am User ID: CAMTec F:\J\A 2017 Utility TSM\2017-SEWER.dwg

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: JHS
DRAWN BY: REF
REVIEWED BY: JHS
ISSUE DATE: DECEMBER 2025
ACAD FILE NAME: 1915.01-E1.dwg

NOT RELEASED FOR CONSTRUCTION BY: DATE:

PANHANDLE ENGINEERING
ENVIRONMENTAL ENGINEERS ● CIVIL ENGINEERS ● LAND PLANNERS
600 Ohio Avenue Lynn Haven, Florida 32444
(850)763-5200 www.panhandleengineering.com

UTILITY DETAILS
REHABILITATION FACILITY AT S.R. 77
LYNN HAVEN, FLORIDA

James H. Slonina, P.E. 39197
Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046
Tyler L. Robinson, P.E. 99377
Sethin B. Simmons, P.E. 101068

DPR CERTIFICATION #EB-7806

WILLIAM B. THOMPSON — LICENSE — NO. 95046 — 5-Feb-26 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SHEET NUMBER 19

PROJECT NUMBER 1915.01

1915.01 REHABILITATION FACILITY AT S.R. 77 UTILITY DETAILS Sheet 19

© PANHANDLE ENGINEERING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR UTILIZED IN ANY FORM WITHOUT PRIOR WRITTEN AUTHORIZATION OF PANHANDLE ENGINEERING, INC.

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

SITE DESCRIPTION

PROJECT NAME AND LOCATION: REHABILITATION FACILITY
2851 HWY 77
PANAMA CITY, Florida 32405
LAT 30° 12' 05.16" ~ LON 85° 39' 02.82"
SECTION TOWNSHIP RANGE ~ 28-3S-14W

DEVELOPER NAME AND ADDRESS: **Cole Hagen, CHC Project Manager II ~ Ryan Companies ~ National Healthcare**
201 N Franklin St Suite 3500
Tampa, Florida 33602

DESCRIPTION: REHABILITATION FACILITY

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING, EARTHWORK, PAVEMENT AND GRADING, STORM WATER AND UTILITIES.

RUNOFF COEFFICIENTS:

1.	PRE-CONSTRUCTION	ROC= 0.066
2.	DURING CONSTRUCTION	ROC= 0.200
3.	POST-CONSTRUCTION	ROC= 0.475

SOILS:
SEE SOIL BORING REPORT FOR SOILS DATA

SITE MAPS:
- SEE ATTACHED GRADING FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORMWATER DISCHARGE POINTS.
- SEE ATTACHED EROSION AND TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS.
- SEE GRADING NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:
1.) TOTAL AREA OF SITE = 8.27± ACRES
2.) TOTAL AREA TO BE DISTURBED = APPROX. 5.31± ACRES

NAME OF RECEIVING WATERS: WEST BAY

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN-OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THAT PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT
STORM WATER DRAINAGE WILL BE PROVIDED BY: ONSITE COLLECTION & ATTENUATION

ONSITE IMPROVEMENTS
SEE SITE, GRADING & DRAINAGE AND UTILITY PLANS.

TIMING OF CONTROLS/MEASURES

REFER TO "CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

CONTROL/MEASURES.
IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

FLORIDA ENVIRONMENTAL RESOURCE PERMIT PENDING

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____
NAME (OPERATOR AND/OR RESPONSIBLE AUTHORITY)

DATED: _____

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCES AND HAY BALES, AS REQUIRED.
3. CONSTRUCT SEDIMENTATION BASIN.
4. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT POND LOCATION.
5. CONTINUE CLEARING AND GRUBBING.
6. STOCKPILE TOP SOIL IF REQUIRED.
7. PERFORM PRELIMINARY GRADING ONSITE, AS REQUIRED.
8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE.
9. INSTALL UTILITIES, STORM SEWER, CURBS AND GUTTER.
10. APPLY BASE TO PROJECT.
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING.
12. COMPLETE FINAL PAVING.
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS.
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

ENDANGERED SPECIES AND CRITICAL HABITAT

1. ARE THERE ENDANGERED SPECIES ON SITE?
2. ARE THERE CRITICAL HABITAT ON SITE?

IF YES TO EITHER QUESTION, PLEASE EXPLAIN:

-

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

1. HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT,
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO ENSURE AGAINST WASHOUT.

   REFER TO EROSION CONTROL DETAILS FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO THE EROSION CONTROL PLAN FOR PROPER LOCATION.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT,
   B. IN MINOR SWALES OF DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

   REFER TO THE EROSION CONTROL DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHOULD BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE MINIMIZED.

7. INLET PROTECTION: INLETS AND CATCH-BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FORM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. DUST CONTROL: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL TREATMENT WITHIN 30 DAYS SHALL BE STABILIZED.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX AND AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA.

   THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:

   A. BLOCK AND GRAVEL SEDIMENT FILTER – THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

   B. GRAVEL SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

   C. DROP INLET SEDIMENT TRAP – THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S<0.50%) AND WHERE SHEET OR OVERLAND FLOWS (Q<0.50CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEMS TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE VOLUME OF THE BASIN AT CLEAN OUT SHALL BE 22 CUBIC YARDS PER ACRE.

THE 67 CUBIC YARDS OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL
WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THAT PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH THE TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- ☐ Concrete
- ☐ Asphalt
- ☐ Detergents
- ☐ Fertilizers
- ☐ Petroleum Based Products
- ☐ Cleaning Solvents
- ☐ Paints
- ☐ Wood
- ☐ Masonry Blocks
- ☐ Roofing Materials
- ☐ Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IS ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e.:KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL REVIEW SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OF SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
- ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
- DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED. • TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING.
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

FOR NON-STORM WATER DISCHARGES REFER TO THE DEP GENERIC PERMIT FOR DISCHARGE OF NON-CONTAMINATED PRODUCED GROUND WATER.
(http://www.dep.state.fl.us/legal/rules/shared/62-621(2).doc)

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

NAME	TITLE	COMPANY ADDRESS AND PHONE NUMBER	DATE

NOTE TO CONTRACTOR:

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE STATE OF FLORIDA NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), GENERIC PERMIT FOR STORMWATER DISCHARGE FOR CONSTRUCTION SITES OVER 1 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR. MORE INFORMATION MAY BE OBTAINED AT **WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES**

PROJECT:

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS
OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR:_____ DATE:_____

INSPECTOR'S QUALIFICATIONS:
_____
_____
_____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:
_____
_____
_____

TO BE PERFORMED BY:_____ ON OR BEFORE:_____

PROJECT:

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM
STRUCTURAL CONTROLS

DATE:_____

EARTH DIKES/SWALES

| DIKE OR SWALE | FROM | TO | IS DIKE/SWALE STABILIZED ? | IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING |
|---

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

DD REVIEW

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

H002125

OPC PROJECT # 23_23960305_20150

OWNER
EXALT HEALTH
50 KENNEDY PLAZA, 12TH FLOOR
PROVIDENCE, RI 02903
832-603-2128
JEFF CRAWFORD
jeff.crawford@exalthealth.com

DEVELOPER
RYAN COMPANIES
400 GALLERIA PKWY, STE 1400
ATLANTA, GA 30339
515-202-0566
JOE FOGARTY
joe.fogarty@ryancompanies.com

ARCHITECT
ENVIRONMENTS FOR HEALTH
801 CHERRY ST, STE 500
FORT WORTH, TX 76102
817-226-1917
CHRISTIAN HARVELL
christian.harvell@e4harchitecture.com

CIVIL & LANDSCAPE
PANHANDLE ENGINEERING
600 OHIO AVE.
LYNN HAVEN, FL 32444
850-763-5200
JIM SLONINA
jhs@panhandleengineering.com

STRUCTURAL ENGINEER
STRUCTURAL AFFILIATES INT.
101 W. PARK DR, STE 250
BRENTWOOD, TN 37027
615-269-0069
JOHN KENNEDY
jkennedy@saii.com

MEP ENGINEERS
ICT & ASSOCIATES INC.
2950 KRAFT DR.
NASHVILLE, TN 37204
615-346-3484
ISAAC VAUGHT
ivaught@ictthomasson.com

DIETARY
DRS DESIGN
750 OLD HICKORY BLVD. STE 140
BRENTWOOD, TN 37027
615-762-3320
RICK PALMER
rick@drsdesign.solutions

SHEET INDEX

NUMBER	NAME	ORIG ISSUE	REV#	DATE
GENERAL				
G0.00	COVER SHEET	02/13/26		
G0.04	PROJECT GENERAL INFORMATION	02/13/26		
G0.05	ACCESSORY ITEM TYPES AND MOUNTING HEIGHTS	02/13/26		
G1.10	ACCESSIBILITY DETAILS	02/13/26		
LIFE SAFETY				
LS1.01	LIFE SAFETY PLAN - LEVEL 1	02/13/26		
CIVIL				
C-00	COVER SHEET	02/05/26		
C-0	ALTA WITH TOPO	02/05/26		
C-1	EXISTING CONDITIONS, AND DEMO PLAN	02/05/26		
C-2	OVERALL SITE PLAN	02/05/26		
C-3	SITE LAYOUT PLAN	02/05/26		
C-4	DRAINAGE LAYOUT PLAN	02/05/26		
C-5	GRADING LAYOUT PLAN	02/05/26		
C-6	ACCESS PLAN AND PROFILES	02/05/26		
C-7	STORMWATER MANAGEMENT DETAILS	02/05/26		
C-8	UTILITY LAYOUT PLAN	02/05/26		
C-9	EROSION CONTROL PLAN	02/05/26		
C-10	FDOT ACCESS LAYOUT PLAN	02/05/26		
C-11	FY 2025-26 FDOT STD PLANS INDEX DETAILS	02/05/26		
C-12	FY 2025-26 FDOT STD PLANS INDEX DETAILS	02/05/26		
C-13	FY 2025-26 FDOT STD PLANS INDEX DETAILS	02/05/26		
C-14	BAY COUNTY ACCESS LAYOUT PLAN	02/05/26		
C-15	CONSTRUCTION NOTES AND DETAILS	02/05/26		
C-16	CONSTRUCTION DETAILS	02/05/26		
C-17	UTILITY DETAILS	02/05/26		
C-18	UTILITY DETAILS	02/05/26		
C-19	UTILITY DETAILS	02/05/26		
C-20	STORMWATER POLLUTION PREVENTION PLAN	02/05/26		
STRUCTURAL				
S1.0	GENERAL NOTES	02/13/26		
S1.01	STATEMENT OF SPECIAL INSPECTIONS	02/13/26		
S1.1	FOUNDATION PLAN - PART A	02/13/26		
S1.2	FOUNDATION PLAN - PART B	02/13/26		
S2.1	TYPICAL FOUNDATION SECTIONS & DETAILS	02/13/26		
S2.2	FOUNDATION SECTIONS & DETAILS	02/13/26		
S3.1	ROOF FRAMING PLAN - PART A	02/13/26		
S3.2	ROOF FRAMING PLAN - PART B	02/13/26		
S3.3	ROOF SCREENWALL PLAN - PART A	02/13/26		
S3.4	ROOF SCREENWALL PLAN - PART B	02/13/26		
S4.1	TYPICAL FRAMING SECTIONS & DETAILS	02/13/26		
S4.2	FRAMING SECTIONS & DETAILS	02/13/26		
ARCHITECTURAL SITE				
AS1.01	ENLARGED OVERALL SITE PLAN	02/13/26		
AS1.10	ENLARGED SITE PLANS AND ELEVATIONS	02/13/26		
AS1.11	ENLARGED SITE PLANS AND ELEVATIONS	02/13/26		
ARCHITECTURAL				
A1.01	FLOOR PLAN- LEVEL 1	02/13/26		
A1.01a	FLOOR PLAN- LEVEL 1- AREA A	02/13/26		
A1.01b	FLOOR PLAN- LEVEL 1- AREA B	02/13/26		
A1.02a	FLOOR PLAN DIMENSION - LEVEL 1 - AREA A	02/13/26		
A1.02b	FLOOR PLAN DIMENSION - LEVEL 1 - AREA B	02/13/26		
A1.03	EDGE OF SLAB PLAN	02/13/26		
A2.01	ROOF PLAN	02/13/26		
A2.02	EDGE OF DECK	02/13/26		
A3.01	REFLECTED CEILING PLAN- LEVEL 1	02/13/26		
A3.01a	REFLECTED CEILING PLAN- LEVEL 1- AREA A	02/13/26		
A3.01b	REFLECTED CEILING PLAN- LEVEL 1- AREA B	02/13/26		
A5.10	WALL SECTIONS	02/13/26		
A5.11	WALL SECTIONS	02/13/26		
A5.13	MAIN CANOPY PLANS AND SECTIONS	02/13/26		
A5.30	EXTERIOR SECTION DETAILS	02/13/26		
A5.31	EXTERIOR SECTION DETAILS	02/13/26		
A5.32	EXTERIOR SECTION DETAILS	02/13/26		
A5.40	ARCHITECTURAL PLAN DETAILS	02/13/26		
A5.41	ARCHITECTURAL PLAN DETAILS	02/13/26		
A5.42	ARCHITECTURAL PLAN DETAILS	02/13/26		
A5.50	ROOF DETAILS	02/13/26		
A5.51	ROOF DETAILS	02/13/26		
A5.52	ROOF DETAILS	02/13/26		
A5.53	ROOF DETAILS	02/13/26		
A5.60	CEILING DETAILS	02/13/26		
A5.70	PARTITION TYPES	02/13/26		
A5.80	MISCELLANEOUS DETAILS	02/13/26		
A5.81	UL ASSEMBLIES	02/13/26		
A5.82	UL ASSEMBLIES	02/13/26		
A5.83	UL PENETRATIONS- FLOORS	02/13/26		
A5.84	UL PENETRATIONS- FLOORS OR WALLS	02/13/26		
A5.85	UL PENETRATIONS- FLOORS OR WALLS	02/13/26		
A5.86	UL PENETRATIONS- GYPSUM WALLS	02/13/26		
A5.87	UL PENETRATIONS- GYPSUM WALLS	02/13/26		
A5.88	UL PENETRATIONS- GYPSUM WALLS	02/13/26		
A5.89	UL PENETRATIONS- CONCRETE OR MASONRY WALLS	02/13/26		
A5.90	UL FIRESTOP BOX INSERT (ELECTRICAL)	02/13/26		
A5.91	UL JOINTS- GYPSUM WALL	02/13/26		
A5.92	UL JOINTS- GYPSUM WALL	02/13/26		
A5.93	UL JOINTS- CONCRETE OR MASONRY WALL	02/13/26		
A6.00	ENLARGED PLANS & INTERIOR ELEVATIONS - TOILETS	02/13/26		
A6.01	ENLARGED PLANS, ELEVATIONS & DETAILS - TYPICAL PAT ROOM	02/13/26		
A6.02	ENLARGED PLANS, ELEVATIONS & DETAILS - TYP AI PAT ROOM	02/13/26		
A6.03	ENLARGED PLANS & INTERIOR ELEVATIONS - GYM	02/13/26		
A6.04	ENLARGED PLANS & INTERIOR ELEVATIONS - NURSE STATION	02/13/26		
A6.05	ENLARGED PLANS, INT ELEVS & DETAILS - LOBBY	02/13/26		
A6.06	ENLARGED PLANS - DAY SPACES	02/13/26		
A6.07	MISCELLANEOUS ENLARGED PLANS AND ELEVATIONS	02/13/26		
A6.08	INTERIOR ELEVATIONS	02/13/26		
A6.09	INTERIOR ELEVATIONS	02/13/26		
A7.00	DOOR SCHEDULE AREA A	02/13/26		
A7.01	DOOR SCHEDULE AREA B	02/13/26		
A7.02	DOOR SCHEDULE- MISCELLANEOUS	02/13/26		
A7.10	INTERIOR WINDOW ELEVATIONS AND DETAILS	02/13/26		
A8.00	MILLWORK TYPE SCHEDULE AND NOTES	02/13/26		
A8.01	MILLWORK SECTION & MISCELLANEOUS DETAILS	02/13/26		
A9.01	ELEVATIONS- EXTERIOR- OVERALL	02/13/26		
A9.02	ELEVATIONS- EXTERIOR- BUILDING	02/13/26		
A9.03	ELEVATIONS- EXTERIOR- BUILDING	02/13/26		
A9.04	ELEVATIONS- EXTERIOR- WINDOWS	02/13/26		
A9.05	ELEVATIONS - MECHANICAL SCREEN WALLS	02/13/26		

SHEET INDEX

NUMBER	NAME	ORIG ISSUE	REV#	DATE
INTERIOR DESIGN				
ID1.00	INTERIOR FINISH MATERIALS LEGEND	02/13/26		
ID1.00a	INTERIOR DETAILS	02/04/26		
ID1.01a	FINISH PLAN- LEVEL 1- AREA A	02/13/26		
ID1.01b	FINISH PLAN- LEVEL 1- AREA B	02/13/26		
ID1.02	ENLARGED INTERIOR FINISH PLANS	02/13/26		
ID2.01a	WALL PROTECTION PLAN - LEVEL 1 - AREA A	02/13/26		
ID2.01b	WALL PROTECTION PLAN - LEVEL 1 - AREA B	02/13/26		
ID3.01a	FLOOR PATTERN PLAN- LEVEL 1- AREA A	02/13/26		
ID3.01b	FLOOR PATTERN PLAN- LEVEL 1- AREA B	02/13/26		
FIRE PROTECTION				
FP0.01	FIRE PROTECTION - LEGENDS & DETAILS	02/13/26		
FP0.02	FIRE PROTECTION - DETAILS	02/13/26		
FP2.01a	FIRE PROTECTION - FLOOR PLAN - LEVEL 1 - AREA A	02/13/26		
FP2.01b	FIRE PROTECTION - FLOOR PLAN - LEVEL 1 - AREA B	02/13/26		
PLUMBING				
P0.01	PLUMBING - LEGENDS & SCHEDULES	02/13/26		
P0.02	PLUMBING - DETAILS	02/13/26		
P0.03	PLUMBING - DETAILS	02/13/26		
P0.04	PLUMBING - DETAILS	02/13/26		
P0.05	PLUMBING - DETAILS	02/13/26		
P1.01a	UNDERGROUND - FLOOR PLAN - LEVEL 1 - AREA A	02/13/26		
P1.01b	UNDERGROUND - FLOOR PLAN - LEVEL 1 - AREA B	02/13/26		
P2.01a	SANITARY - FLOOR PLAN - LEVEL 1 - AREA A	02/13/26		
P2.01b	SANITARY - FLOOR PLAN - LEVEL 1 - AREA B	02/13/26		
P2.02a	SANITARY - ROOF PLAN - AREA A	02/13/26		
P2.02b	SANITARY - ROOF PLAN - AREA B	02/13/26		
P3.01a	PLUMBING - FLOOR PLAN - LEVEL 1 - AREA A	02/13/26		
P3.01b	PLUMBING - FLOOR PLAN - LEVEL 1 - AREA B	02/13/26		
P4.01a	MEDICAL GAS - FLOOR PLAN - LEVEL 1 - AREA A	02/13/26		
P4.01b	MEDICAL GAS - FLOOR PLAN - LEVEL 1 - AREA B	02/13/26		
MECHANICAL				
M0.01	MECHANICAL - LEGENDS & SCHEDULES	02/13/26		
M0.02	MECHANICAL - SCHEDULES	02/13/26		
M0.03	MECHANICAL - SCHEDULES	02/13/26		
M0.04	MECHANICAL - SCHEDULES	02/13/26		
M0.05	MECHANICAL - SCHEDULES	02/13/26		
M0.06	MECHANICAL - SCHEDULES	02/13/26		
M1.01a	HVAC - LEVEL 1 - AREA A	02/13/26		
M1.01b	HVAC - LEVEL 1 - AREA B	02/13/26		
M1.21a	MECHANICAL - ROOF PLAN - AREA A	02/13/26		
M1.21b	MECHANICAL - ROOF PLAN - AREA B	02/13/26		
M2.01a	PIPING - LEVEL 1 - AREA A	02/13/26		
M2.01b	PIPING - LEVEL 1 - AREA B	02/13/26		
M4.01	MECHANICAL - DETAILS	02/13/26		
M4.02	MECHANICAL - DETAILS	02/13/26		
M4.03	MECHANICAL - DETAILS	02/13/26		
M5.01	MECHANICAL - CONTROLS	02/13/26		
M5.02	MECHANICAL - CONTROLS	02/13/26		
M5.03	MECHANICAL - CONTROLS	02/13/26		
ELECTRICAL				
E0.01	ELECTRICAL - LEGENDS & SCHEDULES	02/13/26		
E1.01a	LIGHTING - LEVEL 1 - AREA A	02/13/26		
E1.01b	LIGHTING - LEVEL 1 - AREA B	02/13/26		
E1.01c	LIGHTING - CORRIDOR SWITCHING PLAN	02/13/26		
E2.01a	POWER - LEVEL 1 - AREA A	02/13/26		
E2.01b	POWER - LEVEL 1 - AREA B	02/13/26		
E2.01c	POWER - LEVEL 1 - ENLARGED PLANS	02/13/26		
E3.01a	ELEC-HVAC - LEVEL 1 - AREA A	02/13/26		
E3.01b	ELEC-HVAC - LEVEL 1 - AREA B	02/13/26		
E3.21a	ELEC-HVAC - ROOF PLAN - AREA A	02/13/26		
E3.21b	ELEC-HVAC - ROOF PLAN - AREA B	02/13/26		
E4.01a	FIRE ALARM - LEVEL 1 - AREA A	02/13/26		
E4.01b	FIRE ALARM - LEVEL 1 - AREA B	02/13/26		
E5.01	ELECTRICAL - RISER DIAGRAM	02/13/26		
E5.02	ELECTRICAL - ONE LINE DIAGRAM	02/13/26		
E6.01	ELECTRICAL - PANEL SCHEDULES	02/13/26		
E6.02	ELECTRICAL - PANEL SCHEDULES	02/13/26		
E6.03	ELECTRICAL - PANEL SCHEDULES	02/13/26		
E6.04	ELECTRICAL - PANEL SCHEDULES	02/13/26		
E7.01	ELECTRICAL - DETAILS	02/13/26		
E7.02	ELECTRICAL - DETAILS	02/13/26		
E7.03	ELECTRICAL - DETAILS	02/13/26		
E8.01	LIGHTNING PROTECTION ROOF PLAN	02/13/26		
E8.02	LIGHTNING PROTECTION - DETAILS	02/13/26		
E8.03	LIGHTNING PROTECTION - DETAILS	02/13/26		
ES.01	SITE PLAN	02/13/26		
ES.02	SITE PLAN PHOTOMETRICS	02/13/26		
TECHNOLOGY				
T0.01	TELECOMMUNICATIONS - LEGENDS	02/13/26		
T1.01a	TELECOMMUNICATIONS - LEVEL 1 - AREA A	02/13/26		
T1.01b	TELECOMMUNICATIONS - LEVEL 1 - AREA B	02/13/26		
T2.01a	COMMUNICATIONS - LEVEL 1 - AREA A	02/13/26		
T2.01b	COMMUNICATIONS - LEVEL 1 - AREA B	02/13/26		
T3.01a	NURSE CALL - LEVEL 1 - AREA A	02/13/26		
T3.01b	NURSE CALL - LEVEL 1 - AREA B	02/13/26		
T5.01	TELECOMMUNICATIONS - ELEVATIONS	02/13/26		
T7.01	TELECOMMUNICATIONS - RISER	02/13/26		
T8.01	TELECOMMUNICATIONS - SITE PLAN	02/13/26		
T9.01	TECHNOLOGY - DETAILS	02/13/26		
T9.02	TECHNOLOGY - DETAILS	02/13/26		
T9.03	TECHNOLOGY - DETAILS	02/13/26		
T9.04	TECHNOLOGY - DETAILS	02/13/26		
FOOD SERVICE				
FS-0.1	GENERAL NOTES	02/13/26		
FS-1.0	EQUIPMENT SCHEDULE	02/13/26		
FS-1.1	KITCHEN EQUIPMENT PLAN	02/13/26		
FS-1.2	PLUMBING PLAN	02/13/26		
FS-1.3	ELECTRICAL PLAN	02/13/26		
FS-1.4	SPECIAL CONDITIONS PLAN	02/13/26		
FS-1.5	MECHANICAL SCHEDULES	02/13/26		
FS-1.6	MECHANICAL INFO	02/13/26		

FBC ENERGY CONSERVATION INFORMATION

2023 FBC ENERGY CONSERVATION - BAY COUNTY- 2A

OPAQUE THERMAL ENVELOPE REQUIREMENTS:
ROOF=R-25ci
WALLS, ABOVE GRADE (METAL FRAMED)=R-13 + R-5ci
WALLS, BELOW GRADE=NR
FLOORS=R-6.3ci
SLAB ON GRADE FLOORS (UNHEATED SLABS)=NR

FLORIDA PRODUCT APPROVALS

CONTRACTOR AND SUB-CONTRACTORS ARE RESPONSIBLE FOR PROVIDING THEIR OWN PRODUCT RESEARCH AND PROVIDING APPLICABLE FPA / NOA FOR SUBMISSION. FPA / NOA MUST BE CURRENT AND UP TO DATE TO BE CONSIDERED. ANY DEVIATIONS FROM SPECIFIED PRODUCTS MUST MEET OR EXCEED PERFORMANCE.

THIN ADHERED CALCIUM SILICATE BUILDING STONE
ARRISCRAFT INTERNATIONAL
FL# 3836.1
EXPIRES: DECEMBER 31, 2026

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE
STO CORP- STOTHERM CI 1177-SM
NOA# 21-0708.12
EXPIRES: AUGUST 11, 2026

ALUMINUM COMPOSITE PANEL SYSTEM
3A COMPOSITES USA INC.
FL# 29842.1
EXPIRES: DECEMBER 31, 2026

METAL PANEL SYSTEM (SCREENWALL)
BERRIDGE MANUFACTURING COMP.
NOA# 25-0113.02
EXPIRES: MARCH 24, 2030

METAL PANEL SYSTEM (SOFFIT)
PAC CLAD (PETERSON ALUMINUM CORP.)
FL# 23157.3
EXPIRES: DECEMBER 31, 2026

ALUMINUM 8 13/16" CURTAINWALL SYSTEM
KAWNEER
FL# 16369.1
EXPIRES: DECEMBER 31, 2026

ALUMINUM 5" STOREFRONT SYSTEM
KAWNEER
FL# 15404.4
EXPIRES: DECEMBER 31, 2026

ROOF HATCH
BABCOCK DAVIS
NOA # 24-0904.09
EXPIRES: MAY 25, 2027

AUTOMATIC EXTERIOR BI-PARTING DOOR ASSEMBLY
HORTON AUTOMATICS
NOA# 23-0622.13
EXPIRES: OCTOBER 10, 2028

EXTERIOR STEEL DOORS
NEXT DOOR COMPANY
SERIES S-8080-IL OUTSWING LOUVER DOORS-IMPACT
NOA# 23-0913.10
JANUARY 13, 2026

STEELCRAFT H-SERIES SINGLE/DOUBLE FLUSH OUTSWING STEEL DOOR-MORTISE LOCK
FL# 16740.2
EXPIRES: DECEMBER 31, 2026

STEELCRAFT H-SERIES DOUBLE FLUSH OUTSWING STEEL DOOR-VERTICAL ROD EXIT DEVICE
FL# 14022.1
EXPIRES: DECEMBER 31, 2026

EXTERIOR ENTRANCE DOORS
KAWNEER COMPANY
FL# 15850.2
EXPIRES: DECEMBER 31, 2026

SINGLE-SP TPO ROOFING
JOHNS MANVILLE CORP. SYSTEM S-M-25
FL# 16758.2
EXPIRES: JANUARY 21, 2028

MECHANICAL ALUMINUM VENTILATION LOUVER
RUSKIN COMPANY
NOA# 23-1116.07
EXPIRES: AUGUST 4, 2027

ALUMINUM ROOFTOP AND SIDEWALL MOUNTED EXHAUST FANS
GREENHECK FAN CORP
NOA# 25-0917.01
EXPIRES: SEPTEMBER 23, 2026

STEEL ROOFTOP EXHAUST FAN W/ OR W/O STACK
GREENHECK FAN CORP
NOA# 25-0929.02
EXPIRES: OCTOBER 5, 2028

SPECIAL INSPECTIONS

1. REFER TO S1.01 FOR REQUIRED SPECIAL INSPECTIONS

DEFERRED SUBMITTALS

1. COLD-FORMED METAL FRAMING ENGINEERING
2. ALUMINUM CURTAINWALL FRAMING
3. FIRE SPRINKLER SYSTEM
4. SIGNAGE BY SEPARATE PERMIT
5. REFER TO MEP SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
6. KITCHEN HOOD BY SEPARATE PERMIT

DESIGN PHASE APPROVAL

THE NAME(S) AND SIGNATURE(S) BELOW REPRESENT EACH PERSON(S) REVIEW AND APPROVAL OF THE FOLLOWING: I HEREBY CONFIRM THAT THE CURRENT DESIGN PHASE (MENTIONED BELOW) HAS BEEN REVIEWED AND APPROVED. THIS APPROVAL GRANTS PERMISSION FOR THE ARCHITECT TO PROCEED TO THE NEXT DESIGN PHASE IN ACCORDANCE WITH THE AGREED-UPON PROJECT SCOPE, SCHEDULE, AND TERMS.

PROJECT NUMBER AND NAME: H002125 EXALT HEALTH 40 BE REHAB HOSPITAL - PANAMA CITY BEACH
CURRENT DESIGN PHASE COMPLETED: DESIGN DEVELOPMENT
NEXT DESIGN PHASE: CONSTRUCTION DOCUMENTS

BY SIGNING BELOW, I ACKNOWLEDGE THAT ANY ADDITIONAL CHANGES TO THE DESIGN AFTER THIS POINT MAY INCUR ADDITIONAL COSTS AND AFFECT THE PROJECT SCHEDULE.

OWNER'S SIGNATURE: _____
JEFF CRAWFORD (CHIEF DEVELOPMENT OFFICER - EXALT HEALTH)
DATE: _____

OWNER'S SIGNATURE: _____
MARENA WRIGHT (VP OF HEALTHCARE DEVELOPMENT - RYAN COMPANIES US INC.)
DATE: _____

OWNER'S SIGNATURE: _____
COLE HAGEN (PROJECT MANAGER - RYAN COMPANIES US INC.)
DATE: _____

SCOPE OF WORK - LIFE SAFETY DATA

PROJECT DESCRIPTION:
THE SCOPE OF WORK INCLUDES NEW CONSTRUCTION OF A SINGLE STORY PHYSICAL REHABILITATION HOSPITAL OF APPROXIMATELY 39,300 SF IN LYNN HAVEN, FLORIDA. THE FACILITY WILL HAVE 40 PRIVATE INPATIENT ROOMS, INPATIENT THERAPY GYM AND ADL SUITE, FULL-SERVICE KITCHEN, DINING AREA, ADMIN SUITE, AND PUBLIC WAITING AREA WITH RECEPTION.

THE SCOPE OF WORK ALSO INCLUDES MECHANICAL ROOFTOP UNITS, AN EMERGENCY GENERATOR, AND A EXTERIOR LIQUID OXYGEN STORAGE YARD.

I. APPLICABLE CODES:

FEDERAL
- A. 2010 AMERICANS WITH DISABILITIES ACT
- B. FEDERAL CMS AND JOINT COMMISSION
  - 2012 NFPA 99 HEALTH CARE FACILITIES CODE
  - 2012 NFPA 101 LIFE SAFETY CODE WITH CMS POLICIES

STATE
- A. 2023 FLORIDA BUILDING CODE - 8TH EDITION
  - (FBC, INCLUDES SECTION 449 - HOSPITALS)
- B. 2023 FLORIDA BUILDING CODE - ACCESSIBILITY
- C. 2023 FLORIDA BUILDING CODE - MECHANICAL
- D. 2023 FLORIDA BUILDING CODE - PLUMBING
- E. 2023 FLORIDA BUILDING CODE - FUEL GAS
- F. 2020 NFPA 70 - NATIONAL ELECTRICAL CODE
- G. 2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION
- H. 2023 FLORIDA BUILDING CODE - TEST PROTOCOLS
- I. 2023 FLORIDA FIRE PREVENTION CODE - 8TH EDITION; INCLUDING:
  - 2021 NFPA 1 FIRE CODE
  - 2021 NFPA 101 LIFE SAFETY CODE (LSC)
- J. FLORIDA STATE FIRE CODES ADOPTED BY THE FIRE MARSHAL PER RULE 69A-3.012 AND REFERENCED NFPA STANDARDS:
  - 2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS
  - 2019 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
  - 2021 NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS
  - 2021 NFPA 54 NATIONAL FUEL GAS CODE
  - 2020 NFPA 55 COMPRESSED GASES AND CRYOGENIC FLUIDS CODE
  - 2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
  - 2021 NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
  - 2021 NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS
  - 2021 NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
  - 2021 NFPA 99 HEALTH CARE FACILITIES
  - 2019 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
- K. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS, 2022 EDITION
  - SECTION 2.6 REHABILITATION HOSPITALS AND BY REFERENCE: SECTION 2.1 AND 2.2 AND ALL OF CHAPTER 1
- L. ASTM E96 (2016) - WATER VAPOR TRANSMISSION
- M. ASCE 7 (2022) WITH SUPPLEMENT NO. 1 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- N. ANSI / ASHRAE / ASHE STANDARD 170 (2021) - VENTILATION OF HEALTHCARE FACILITIES

II. OCCUPANCY TYPES:
- A. INSTITUTIONAL - GROUP I-2, CONDITION 2 (FBC-2023 308.4)
- B. NEW HEALTH CARE - HOSPITAL (LSC-2021 CH. 18)

III. CONSTRUCTION TYPE:
- A. TYPE II B (FBC-2023 TABLE 601)
- B. TYPE II (0, 0, 0) (NFPA 220)

IV. STRUCTURAL FIRE RATINGS:
PRIMARY STRUCTURAL FRAME: 0 HR (FBC-2023 TABLE 601)
FLOOR CONSTRUCTION & SECONDARY MEMBERS: 0 HR (FBC-2023 TABLE 601)
ROOF CONSTRUCTION & SECONDARY MEMBERS: 0 HR (FBC-2023 TABLE 601)

V. FIRE SUPPRESSION SYSTEM:
COMPLETE AUTOMATIC SPRINKLER PROTECTION TO BE PROVIDED FOR BUILDING PER FBC-2023 903.2.6 AND LSC-2021 18.3.5.1.

SCOPE OF WORK - LIFE SAFETY DATA

VI. HEIGHT AND AREA
MAX. ALLOWABLE AREA PER FLOOR: 44,000 (FBC-2023 TABLE 506.2)
MAX. NUMBER OF STORIES: 1 STORY (FBC-2023 TABLE 504.4)
MAX. ALLOWABLE HEIGHT: 55 FT (FBC-2023 504.3A)

ACTUAL GROSS BUILDING AREA: **39,300 GSF**

ACTUAL BUILDING HEIGHT: **25 FT (1 STORY)**

VII. FIRE SAFETY CONCEPT:
- DESIGN A PHYSICAL REHABILITATION HOSPITAL OF NONCOMBUSTIBLE CONSTRUCTION, FULLY SPRINKLERED.
- 'NON-PATIENT CARE' AND 'PATIENT CARE NON-SLEEPING SUITES' HAVE BEEN PROVIDED TO MEET THE CORRIDOR ACCESS REQUIREMENTS (LSC-2021 18.2.5.6 & FBC-2023 407.4.1). THE MAXIMUM ALLOWABLE AREA OF A 'PATIENT CARE NON-SLEEPING SUITE' IS 12,500 SF, AND NOT GREATER THAN 15,000 SF. WHERE AUTOMATIC SMOKE DETECTION IS PROVIDED (LSC-2021 18.2.5.7.3.2 & FBC-2023 407.4.4.6).
- THREE SMOKE COMPARTMENTS ARE PROVIDED PER FBC-2023 407.4 AND LSC-2021 18.3.7.1

VIII. OTHER LIFE SAFETY CONSIDERATIONS (MOST STRINGENT OF APPLICABLE CODES INDICATED):

A. OCCUPANT LOAD (FBC-2023 TABLE 1004.5): SEE OCCUPANCY TABLES, LS1.01.
TOTAL = 269 OCCUPANTS

B. EXIT CAPACITY (FBC-2023 1005.3): SEE EXIT SCHEDULE, LS1.01.
FIRST FLOOR: 269 OCC. X 0.2 = 53.8" REQUIRED EXIT WIDTH
PROVIDED: = 415.5" (2,077 OCCUPANTS)

C. CORRIDOR WIDTH (FBC-2023 1020.3, LSC-2021 18.2.3.5.4, AIA/HHS 5.2.1.1):
- GROUP I-2 IN AREAS WHERE REQ. FOR BED MOVEMENT 96" MINIMUM
- ALL OTHER AREAS 44" MINIMUM

D. DEAD END (FBC-2023 1020.5):
- 20' MAXIMUM

E. TRAVEL DISTANCE:
- ANY POINT IN A 'PATIENT CARE NON-SLEEPING SUITE" TO EXIT ACCESS DOOR - 100' MAX. (LSC-2021 18.2.5.7.3.3 & FBC-2023 407.4.4.3)
- ANY POINT TO AN EXIT - 200' MAX (FBC-2023 TABLE 1017.2)
- ANY POINT IN A SMOKE COMPARTMENT TO A SMOKE BARRIER DOOR - 200' MAX (FBC-2023 407.5)

F. DOOR WIDTH (LSC-2021 18.2.3.6/18.2.3.7):
- 41-1/2" CLEAR WIDTH MINIMUM FOR STRETCHER/BED USE;
- 32" CLEAR WIDTH MINIMUM ELSEWHERE.

G. INTERIOR FINISHES (FBC-2023 TABLE 803.11):
- EXITS AND EXIT ACCESS CORRIDORS - CLASS A MAXIMUM FLAME SPREAD
- ROOMS WITH A CAPACITY OF FOUR PERSONS OR LESS - CLASS C FLAME SPREAD
- SMOKE PRODUCTION MUST BE 450 OR LESS UNDER ASTM E 84

H. CORRIDOR CONSTRUCTION (FBC-2023 407.3):
- SMOKE PARTITIONS PER FBC 710 WITH WALLS EXTENDED TO DECK OR TO CEILING MEMBRANE THAT LIMITS THE TRANSFER OF SMOKE.

I. CORRIDOR DOORS (FBC-2023 407.3.1):
- NO FIRE PROTECTION RATING REQUIRED; MUST LIMIT THE TRANSFER OF SMOKE AND BE EQUIPPED WITH POSITIVE LATCHING HARDWARE.

J. INCIDENTAL USE/HAZARDOUS AREA SEPARATION (FBC-2023 509 & LSC-2021 18.3.2.1):
- WASTE COLLECTION ROOMS: - 1-HOUR
- SOILED LINEN HOLDING ROOMS; - 1-HOUR
- STORAGE ROOMS GREATER THAN 100 SQ. FT. IN AREA; - 1-HOUR
- LABORATORIES NOT CLASSIFIED AS GROUP H: - 1-HOUR & SPRINKLERED

K. FLOOR COVERING (FBC-2023 804.4.2):
- ENCLOSED EXITS & EXIT ACCESS - CLASS II MINIMUM CRITICAL RADIANT FLUX REQUIREMENTS WHEN FULLY SPRINKLERED

L. ACCESSIBLE EGRESS (FBC-2023 1007.1, FAC-2020 207, AND LSC-2021 7.5.4.1.3):
- OUTSIDE DOORS AND STANDARD EXIT STAIRS CAN SERVE AS ACCESSIBLE MEANS OF EGRESS.

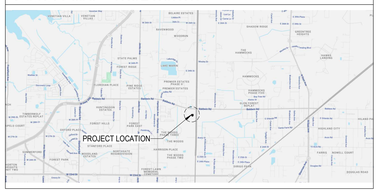
ISSUE DATES

DATE - ISSUE
01/15/2026 - SCHEMATIC DESIGN ISSUE
02/13/2026 - DESIGN DEVELOPMENT ISSUE

AREA MAP - TRUE NORTH



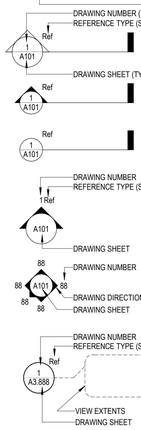
VICINITY MAP - TRUE NORTH



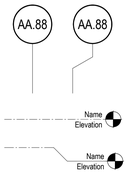
ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL ARCH SIZE

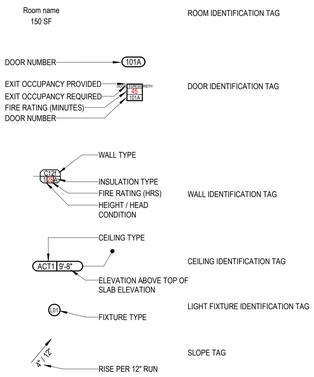
VIEW MARKERS



DRAWING SYMBOLS



ITEM TAGS



ABBREVIATIONS

A/C	AIR CONDITIONING	FA	FIRE ALARM	IPS	INTERIOR PAINT SYSTEM
AB	ANCHOR BOLT	FAB	FABRICATED	IVT	INTRAVENOUS (IV) TRACK
ACC	ACCESS	FD	FLOOR DRAIN	PARTN	PARTITION
ACT	ACOUSTICAL CEILING TILE	FE	FIRE EXTINGUISHER	PBD	PARTICLE BOARD
AD	AREA DRAIN	FEC	FIRE EXTINGUISHER CABINET	PC	PERSONAL COMPUTER
ADHES	ADHESIVE	FF EL	FINISH FLOOR ELEVATION	PERF	PERFORATED
ADJ	ADJUSTABLE	FHEC	FIRE HOSE & EXTINGUISHER CABINET	PERIM	PERIMETER
AFF	ABOVE FINISHED FLOOR	FHC	FIRE HOSE CABINET	P	PLATE
AGGR	AGGREGATE	FIN	FINISH (ED)	PLAM	PLASTIC LAMINATE
AHU	AIR HANDLING UNIT	FLR	FLOOR	PLAS	PLASTER
ALT	ALTERNATE	FLUOR	FLUORESCENT	PLYWD	PLYWOOD
ALUM	ALUMINUM	FM	FACTORY MUTUAL	PNL	PANEL
ANOD	ANODIZED	FOC	FACE OF CONCRETE	POLY	POLYETHYLENE
ARCH	ARCHITECTURAL	FOF	FACE OF FINISH	PR	PAIR
ASB	ASBESTOS	FOS	FACE OF STUD	PREFAB	PREFABRICATED
ASPH	ASPHALT	FPRF	FIREPROOF	PRT	PRESSURE TREATED
AUTO	AUTOMATIC	FRPL	FIREPLACE	PSF	POUNDS PER SQUARE FOOT
BD	BOARD	FRT	FIRE RETARDANT TREATED	PSI	POUNDS PER SQUARE INCH
BITUM	BITUMINOUS	FT ()	FOOT / FEET	PT	PAINT
BLDG	BUILDING	FTG	FOOTING	PTS	PNEUMATIC TUBE STATION
BLK	BLOCK	FURN	FURNISH, FURNITURE	PVC	POLYVINYL CHLORIDE
BLKG	BLOCKING	FURR	FURRED, FURRING	PWC	PROTECTIVE WALL COVERING
BM	BENCH MARK	FUT	FUTURE	QT	QUARRY TILE
BOT	BOTTOM	GA	GAUGE	QTY	QUANTITY
BR	BUMPER RAIL	GALV	GALVANIZED	R	RISER
BRG	BEARING	GC	GENERAL CONTRACTOR	RA	RETURN AIR
BRK	BRICK	GL	GLASS, GLAZING	RAD	RADIUS
BRZ	BRONZE	GRD	GRADE	RB	RESILIENT BASE
BSMT	BASEMENT	GYP	GYPSUM BOARD	RD	ROOF DRAIN
BTU	BRITISH THERMAL UNIT	GWB	GYPSUM WALLBOARD	REF	REFRIGERATOR
BUR	BUILT-UP ROOFING	HB	HOSE BIBB	REINF	REINFORCED
BV	BEVELED	H/C	HANDICAPPED	REQD	REQUIRED
CAB	CABINET	HCWD	HOLLOW CORE WOOD	RESIL	RUBBER
CB	CATCH BASIN	HD	HEAVY DUTY	REV	REVISION
CCT	CUBICAL CURTAIN TRACK	HDNR	HARDENER	RH	RIGHT HAND
CCU	CORONARY CARE UNIT	HDR	HEADER	RHR	RIGHT HAND REVERSE
CEM	CEMENT	HDWD	HARDWOOD	RM	ROOM
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	HDWR	HARDWARE	RO	ROUGH OPENING
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	HM	HOLLOW METAL	ROW	RIGHT OF WAY
CG	CORNER GUARD	HORIZ	HORIZONTAL	RWC	RAINWATER CONDUCTOR
CI	CAST IRON	HP	HIGH POINT	S	SOUTH
CIR	CIRCLE	HR	HAND RAIL	SCHED	SCHEDULE
CJ	CONSTRUCTION JOINT	HT	HEIGHT	SCWD	SOLID CORE WOOD
CL	CENTER LINE	HTG	HEATING	SECT	SECTION
CLG	CEILING	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	SEG	SEGMENT
CLKG	CAULKING	HW	HOT WATER	SF	SQUARE FOOT
CLO	CLOSET	ICU	INTENSIVE CARE UNIT	SHR	SHOWER
CLOS	CLOSURE	ID	INSIDE DIAMETER	SHT	SHEET
CLR	CLEAR	IN (")	INCHES	SHTG	SHEATHING
CMU	CONCRETE MASONRY UNIT	INCL	INCLUDING	SIM	SIMILAR
CO	CLEAN OUT	INFO	INFORMATION	SPEC	SPECIFICATION
COL	COLUMN	INSUL	INSULATE, INSULATION	SPKR	SPEAKER
CONC	CONCRETE	INT	INTERIOR	SQ	SQUARE
CONF	CONFERENCE	INV	INVERT	SS	SERVICE SINK
CONN	CONNECT (ION)	JAN	JANITOR	SSM	SOLID SURFACE MATERIAL
CONT	CONTINUOUS	JST	JOIST	SSS	SURGICAL SCRUB SINK
CONTR	CONTRACTOR	JT	JOINT	SST	STAINLESS STEEL
CORR	CORRIDOR	KIT	KITCHEN	STA	STATION
CPT	CARPET	KO	KNOCKOUT	STD	STANDARD
CR	CHAIR RAIL	KPL	KICK PLATE	STC	SOUND TRANSMISSION CLASS
CS	CENTRAL STERILE	KR	KICK RAIL	STL	STEEL
CSI	CONSTRUCTION SPECIFICATION INSTITUTE	L	LENGTH	STOR	STORAGE
CSMT	CASEMENT	LAB	LABORATORY	STRUCT	STRUCTURAL, STRUCTURE
CT	CERAMIC TILE	LAM	LAMINATE (D)	SURG	SURGERY
CW	COLD WATER	LAV	LAVATORY	SUSP	SUSPENDED
D/A	DOUBLE ACTING	LBL	LABEL	SV	SHEET VINYL
DBL	DOUBLE	LF	LINEAR FOOT (FEET)	SRV	SLIP RESISTANT VINYL
DEG	DEGREE	LH	LEFT HAND	SYM	SYMMETRICAL
DEMO	DEMOLITION	LHR	LEFT HAND REVERSE	T	TREAD (S)
DEMT	DEMOUNTABLE	LL	LIVE LOAD	T&B	TOP AND BOTTOM
DEP	DEPRESSED	LP	LOW POINT	T&G	TONGUE AND GROOVE
DET	DETAIL	MATL	MATERIAL	TEL	TELEPHONE
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	TELEM	TELEMETRY
DIH	DOUBLE HUNG	MBR	MEMBER	TEMP	TEMPORARY
DIA	DIAMETER	MECH	MECHANICAL	TERR	TERRAZZO
DIAG	DIAGONAL	MEMB	MEMBRANE	THK	THICK (NESS)
DIM	DIMENSION	MFR	MANUFACTURER	THRES	THRESHOLD
DIV	DIVISION	MH	MAN HOLE	TLT	TOILET
DN	DOWN	MIN	MINIMUM	TOC	TOP OF CONCRETE
DR	DOOR	MISC	MISCELLANEOUS	TOF	TOP OF FOOTING
DW	DISHWASHER	MO	MASONRY OPENING	TOS	TOP OF STEEL
DWG	DRAWING	MOD	MODULAR	TOW	TOP OF WALL
DWR	DRAWER	MON	MONITOR	TRANSF	TRANSFORMER
E	EAST	MR	MOISTURE RESISTANT	TV	TELEVISION
EA	EACH	MTD	MOUNTED	TYP	TYPICAL
ED	EMERGENCY DEPARTMENT	MTL	METAL	UL	UNDERWRITERS LABORATORY
EF	EXHAUST FAN	MULL	MULLION	UNXC	UNEXCAVATED
EIFS	EXTERIOR INSULATING FINISH SYSTEM	N	NORTH	UNFIN	UNFINISHED
EJ	EXPANSION JOINT	N/A	NOT APPLICABLE	UON / UNO	UNLESS OTHERWISE NOTED
EL	ELEVATION	NIC	NOT IN CONTRACT	UR	URINAL
ELEC	ELECTRIC (AL)	NO. #	NUMBER	VAR	VARNISH
ELEV	ELEVATOR	NOM	NOMINAL	VAT	VINYL ASBESTOS TILE
EMERG	EMERGENCY	NRC	NOISE REDUCTION COEFFICIENT	VB	VINYL BASE
ENCL	ENCLOSURE	NTS	NOT TO SCALE	VCB	VINYL COVE BASE
EO	EMERGENCY ELECTRICAL OUTLET	OA	OVERALL	VCT	VINYL COMPOSITION TILE
EPS	EPOXY PAINT SYSTEM	OBS	OBSCURE	VERT	VERTICAL
EXPS	EXTERIOR PAINT SYSTEM	OC	ON CENTER	VEST	VESTIBULE
EQ	EQUAL	OD	OUTSIDE DIAMETER	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	VWC	VINYL WALL COVERING
ETR	EXISTING TO REMAIN	OFF	OFFICE	W	WEST
EWC	ELECTRIC WATER COOLER	OFOI	OWNER FURNISHED OWNER INSTALLED	WI	WITH
EWSS	EYEWASH SAFETY SHOWER	OH	OVERHEAD	WO	WITHOUT
EXCAV	EXCAVATE	OPQ	OPAQUE	WC	WATER CLOSET
EXH	EXHAUST	OPNG	OPENING	WD	WOOD
EXIST	EXISTING	OPP	OPPOSITE	WDW	WINDOW
EXP	EXPANSION	PACU	POST ANESTHESIA CARE UNIT	WF	WIDE FLANGE
EXT	EXTERIOR	PAR	PARALLEL	WI	WROUGHT IRON
				WT	WEIGHT
				WWF	WELDED WIRE FABRIC
				WWM	WELDED WIRE MESH
				YD	YARD

PROJECT GENERAL NOTES

1. ALL TRADES ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS AS APPLICABLE. REFER TO STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.
2. DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING THE WORK.
3. DETAILS NOT REFERENCED ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
4. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS OTHERWISE NOTED.
5. ALL FIRE-RESISTIVE (LABELED) DOORS SHALL HAVE THE APPROPRIATE UL OR OTHER RATING AGENCY LABEL, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AFFIXED TO BOTH DOOR AND FRAME. LABELS SHALL REMAIN INTACT AND VISIBLE. DO NOT PAINT OVER OR REMOVE LABEL.
6. ALL RECESSED ITEMS LOCATED IN FIRE-RATED WALLS SHALL BE INSTALLED MAINTAINING FIRE-RATED CONSTRUCTION.
7. COORDINATE ACCESS PANELS WITH THE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL ACCESS DOORS OR PANELS REQUIRED COORDINATE WITH MEP DWGS.
8. ARCHITECTURAL DRAWINGS INDICATE DEVICE LOCATIONS ONLY, REFER TO MEP & COMMUNICATIONS DRAWINGS FOR OTHER REQUIREMENTS.
9. SET ALL DEVICES FLUSH WITH ANY APPLIED WALL FINISH. SEE FINISH PLAN FOR LOCATION AND TYPE.
10. PROVIDE CONTINUOUS STEEL PLATE, STUD AND/ OR WOOD BLOCKING WITHIN WALL (PARTITION TYPE) AT ALL WALL MOUNTED ITEMS.
11. CONTRACTOR SHALL FOLLOW MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS, DETAILS AND RECOMMENDATIONS FOR PROPER INSTALLATION OF MATERIALS, EQUIPMENT AND FINISHES.
12. CONTRACTOR TO INDICATE WALL LAYOUT IN CHALK PRIOR TO CONSTRUCTION.
13. PROVIDE A SINGLE LAYER OF 3/4" FIRE-RETARDANT-TREATED PLYWOOD, 24" TO 96" AFF AT ALL TECHNOLOGY EQUIPMENT AND IT ROOMS, PAINT TO MATCH WALL.
14. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, SHELL SPACES AND MEP SUPPORT SPACES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
15. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, CABINET WORK AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
16. AT ALL MED GAS ROOMS, PROVIDE CHAIN W/ EYE HOOK EVERY 4'-0" O.C. TO SECURE MED GAS BOTTLES (ONE CHAIN PER BOTTLE).

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments for Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

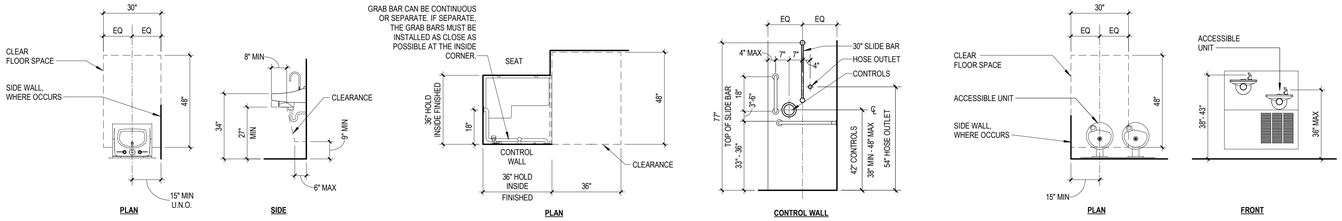
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

G0.04

PROJECT GENERAL INFORMATION

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ALL SHEETS ORIGINALLY AT 30 X 42

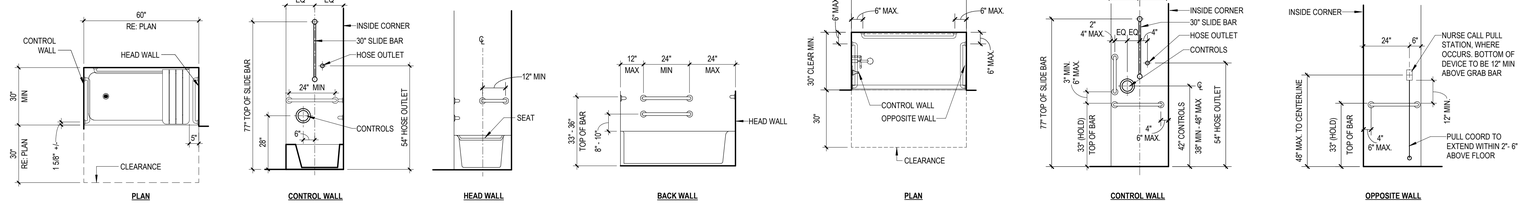


TYPICAL ACCESSIBLE LAVATORY

ACCESSIBLE TRANSFER SHOWER

DRINKING FOUNTAIN

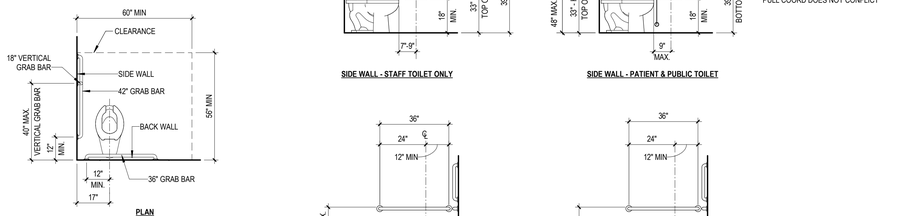
NOTE:
COORDINATE PLUMBING FIXTURES WITH PLUMBING DRAWINGS. ENSURE MOUNTING HEIGHTS MEET ADA REQUIREMENTS. HOSE LENGTH FOR HANDHELD SHOWER HEAD TO BE 60" MINIMUM.



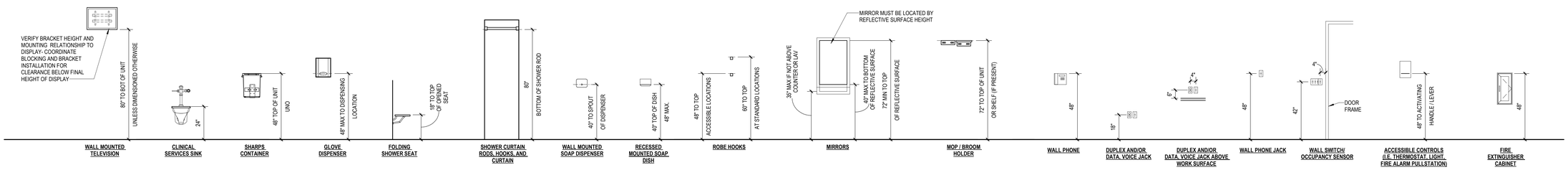
ADL BATHTUB

ACCESSIBLE ROLL-IN SHOWER

03 / G0.05 PLUMBING FIXTURE LAYOUTS - ANSI
3/8" = 1'-0"



— PLUMBING FIXTURE LAYOUTS - TOILETS
3/8" = 1'-0"



01 / G0.05 MOUNTING HEIGHTS
3/8" = 1'-0"

NOTE: DIMENSIONS SHOWN HERE ARE TYPICAL, UNLESS NOTED OTHERWISE WITHIN DOCUMENTS

RESTROOM ACCESSORIES

TAG	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	CURRENT REV
CH1	SURFACE MOUNTED DOUBLE ROBE HOOK	BOBRICK	B-6727		
GB1	GRAB BAR- HORIZONTAL- 48"	BOBRICK	B-6806		
GB2	GRAB BAR- HORIZONTAL- 42"	BOBRICK	B-6806		
GB3	GRAB BAR- HORIZONTAL- 36"	BOBRICK	B-6806		
GB4	GRAB BAR- HORIZONTAL- 30"	BOBRICK	B-6806		
GB5	GRAB BAR- HORIZONTAL- 24"	BOBRICK	B-6806		
GB6	GRAB BAR- VERTICAL- 18"	BOBRICK	B-6806		
GB7	GRAB BAR- HORIZONTAL-12"	BOBRICK	B-6806		
GB8	GRAB BAR SWING-AWAY	BRADLEY	8170-158000		
MP1	MOP AND BROOM HOLDER	BOBRICK	B-223 X 24		
MR1	MIRROR, 24X36	BOBRICK	B-166 2436	SIZE 24X36 AT PATIENT ROOM TOILETS	
PTD1	PAPER TOWEL DISPENSER, SURFACE MOUNTED	BOBRICK	B-262	OWNER PROVIDED, GC INSTALLED	
SD1	SOAP DISPENSER	BOBRICK	B-4112	OWNER PROVIDED, GC INSTALLED	
SHS1	SHOWER SEAT	BOBRICK	B-5181		
SO1	RECESSED SOAP DISH	BOBRICK	B-4380		
SR1	SHOWER CURTAIN ROD	BOBRICK	B-6047		
TP1	TOILET PAPER DISPENSER	BOBRICK	B-2888	OWNER PROVIDED, GC INSTALLED	

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

G0.05

ACCESSORY ITEM TYPES AND MOUNTING HEIGHTS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100% ON ORIGINAL ARCHITECTURAL SHEETS

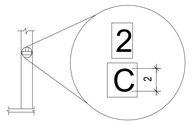
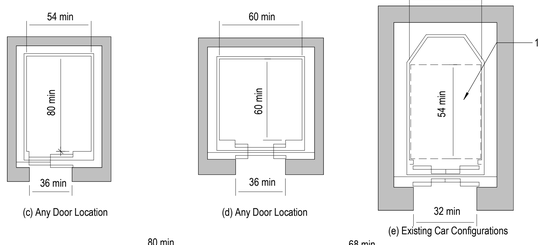


FIG. 407.2.3.2
Destination-Oriented Elevator Car Identification



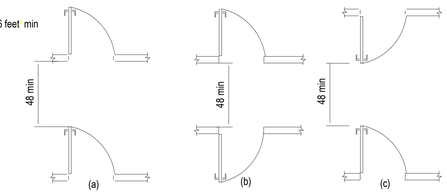


FIG. 404.2.6
Two Doors in Series

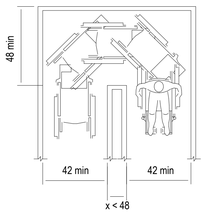


FIG. 403.5.2
Clear Width at Turn

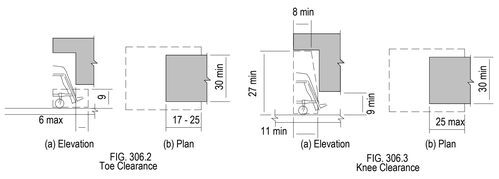


FIG. 306.2
Toe Clearance

FIG. 306.3
Knee Clearance

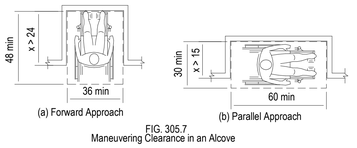


FIG. 305.7
Maneuvering Clearance in an Alcove

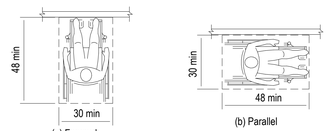


FIG. 305.5
Position of Clear Floor Space

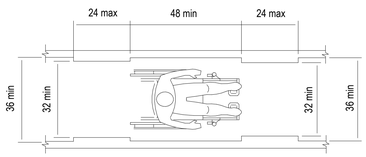


FIG. 403.5
Clear Width of an Accessible Route

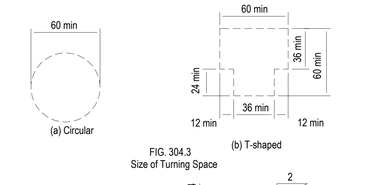


FIG. 304.3
Size of Turning Space

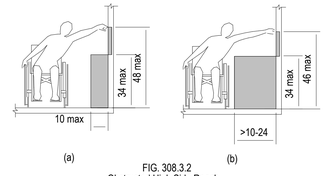


FIG. 308.3.2
Obstructed High Side Reach

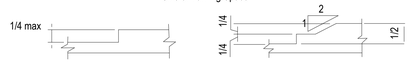


FIG. 303.2
Vertical Changes in Level

FIG. 303.3
Beveled Changes in Level

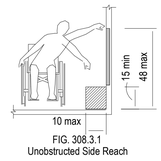


FIG. 308.3.1
Unobstructed Side Reach

dominant direction of travel

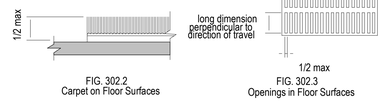
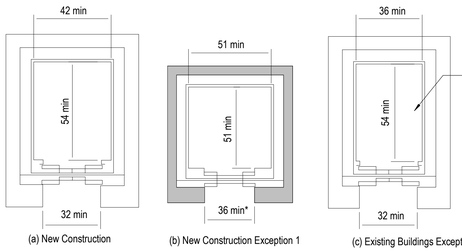


FIG. 302.2
Carpet on Floor Surfaces

FIG. 302.3
Openings in Floor Surfaces



*Door opening size from Section 408.3.3

FIG. 408.4.1
Inside Dimensions of Limited Use/ Limited Application (LULA) Elevator Cars

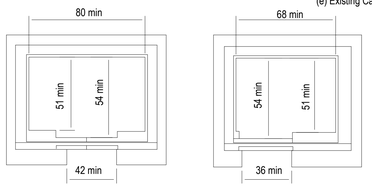


FIG. 407.4.1
Inside Dimension of Elevator Cars

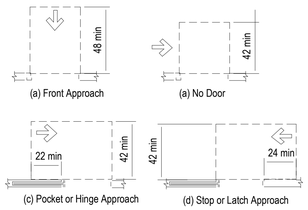


FIG. 404.2.3.4
Maneuvering Clearance at Sliding and Folding Doors

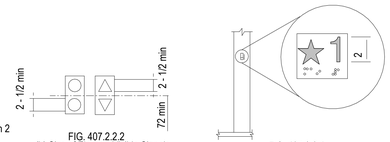


FIG. 407.2.2.2

FIG. 407.2.3.1
Floor Designation

Control Button	Tactile Symbol	Braille Message
EMERGENCY STOP		*ST*OP 3 CELLS
ALARM		AL*AR*M 4 CELLS
DOOR OPEN		OP*EN* 3 CELLS
DOOR CLOSE		CLOSE 5 CELLS
MAIN		MA*IN* 2 CELLS
PHONE		PH*ONE* 4 CELLS

TABLE 407.4.7.1.3
Control Button Identification

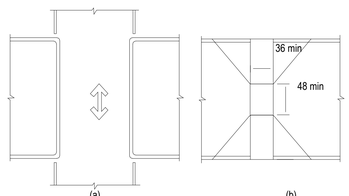
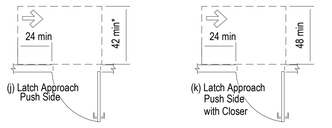


FIG. 406.11
Islands



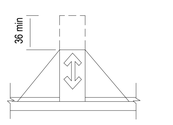


FIG. 406.4
Landings at Top of Curb Ramps

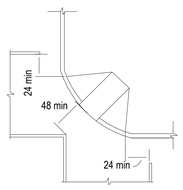


FIG. 406.10
Diagonal Curb Ramps

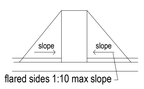
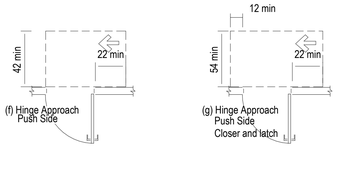
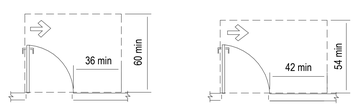


FIG. 406.3
Sides of Curb Ramps





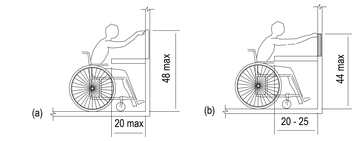


FIG. 308.2.2
Obstructed High Forward Reach

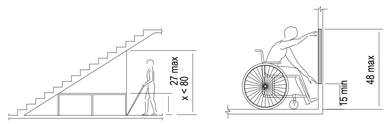


FIG. 307.4
Reduced Vertical Clearance

FIG. 308.2.1
Unobstructed Forward Reach

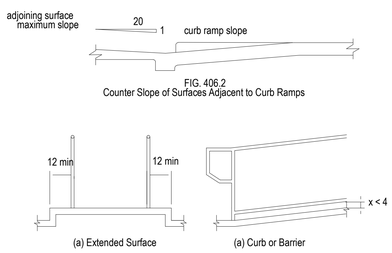


FIG. 406.2
Counter Slope of Surfaces Adjacent to Curb Ramps

FIG. 405.9
Ramp Edge Projection

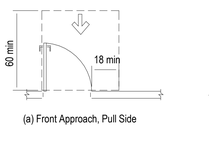


FIG. 404.2.3.1
Maneuvering Clearance at Manual Swinging Doors

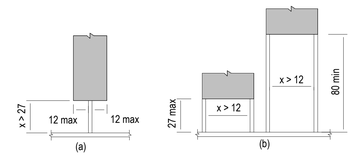


FIG. 307.3
Post-Mounted Protruding Objects

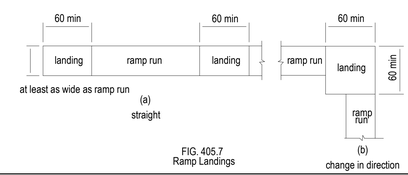


FIG. 405.7
Ramp Landings

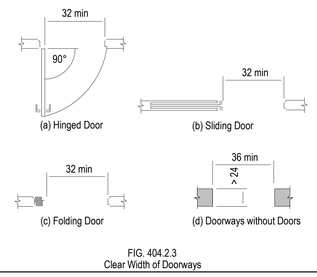


FIG. 404.2.3
Clear Width of Doorways

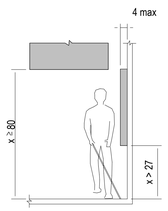


FIG. 307.2
Limits of Protruding Objects

Convention	Description
36	dimension showing English units (in inches unless otherwise specified)
6	dimension for small measurements
33 - 36	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling, or other element cut in section or plan
	highlighted element in elevation or plan
	location zone of element, control, or feature

FIG. 104.2
Graphic Convention for Figures

GENERAL NOTE

THIS DATA IS PROVIDED AS AN ADDITIONAL RESOURCE TO THE TEAM OF OWNER, CLIENT ARCHITECT, ENGINEER, AND SPECIFICALLY, CONTRACTOR. THIS IS A TOOL TO APPRISE ALL PARTIES OF GENERAL ACCESSIBLE CONDITIONS AS PUBLISHED PER THE FLORIDA BUILDING CODE - ACCESSIBILITY. THE DIAGRAMS ARE VERBATIM DUPLICATIONS OF THE FBC STANDARDS AND ARE NOT INDICATIVE OF ALL CONDITIONS AND CERTAINLY DO NOT FULLY REPRESENT THE ENTIRETY OF THE WRITTEN GUIDELINES AS CONTAINED IN THE STANDARDS. THIS DATA IS IN SUPPORT OF GENERAL ARCHITECTURAL & ENGINEERING DOCUMENTATION, WHICH IS INTENDED TO BE CONSISTENT WITH ACCESSIBLE CONDITIONS. SINCE THE ENTIRE TEAM OF OWNER, CLIENT, ARCHITECT, ENGINEER, AND SPECIFICALLY, CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE, THIS DATA IS PROVIDED TO ACT AS AN ADDED SAFEGUARD TO FULLY FAMILIARIZE THE TEAM WITH EXPECTATIONS ASSOCIATED WITH THE FBC STANDARDS AND TO ASSIST THE TEAM IN ACHIEVING FULLY ACCESSIBLE CONDITIONS. WE ENCOURAGE THE DETAILED REVIEW BY OWNER AND CONTRACTOR.

NOTE: THE MOST STRINGENT REQUIREMENT APPLIES WHEN ADDRESSING ADAAG Vs. FBC

ISSUED FOR REFERENCE ONLY

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 893.781.8441 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

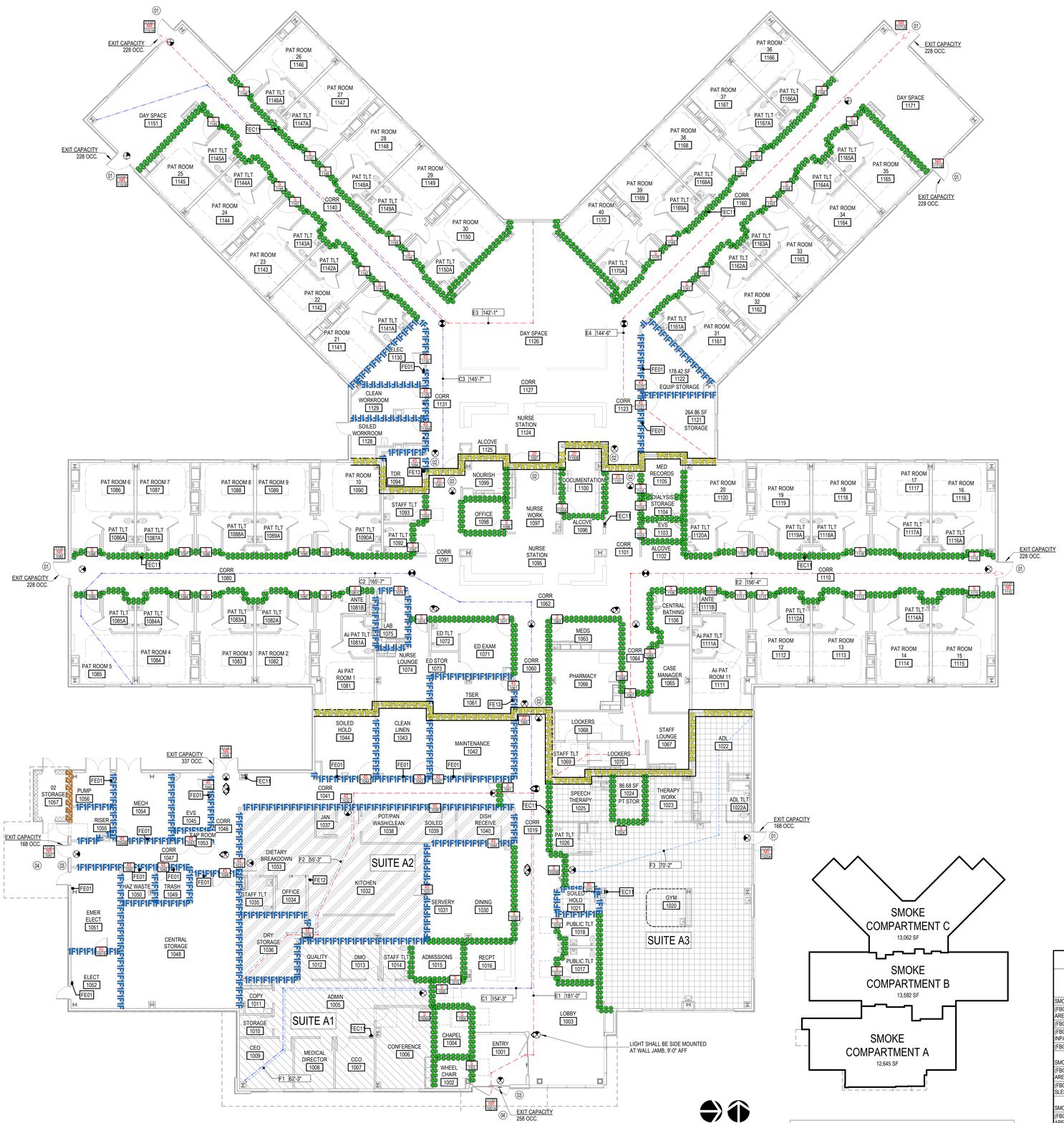
G1.10

ACCESSIBILITY DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONE HALF INCH AT 11" SHEETS

FGI REQUIRED INPATIENT DAY SPACE

ROOM #	ROOM NAME	ROOM AREA
1030	DINING	317 SF
1126	DAY SPACE	1095 SF
1151	DAY SPACE	571 SF
1171	DAY SPACE	568 SF
PROVIDED SF:		2551 SF



01 LS1.01 LIFE SAFETY PLAN- LEVEL 1
3/32" = 1'-0"

TRUE NORTH
PROJECT NORTH

SMOKE COMPARTMENT PLAN

SCOPE OF WORK - LIFE SAFETY DATA

PROJECT DESCRIPTION:
THE SCOPE OF WORK INCLUDES NEW CONSTRUCTION OF A SINGLE-STORY PHYSICAL REHABILITATION HOSPITAL OF APPROXIMATELY 39,300 SF IN LYNN HAVEN, FLORIDA. THE FACILITY WILL HAVE 40 PRIVATE INPATIENT ROOMS, INPATIENT THERAPY GYM AND ADL SUITE, FULL-SERVICE KITCHEN, DINING AREA, ADMIN SUITE, AND PUBLIC WAITING AREA WITH RECEPTION.

THE SCOPE OF WORK ALSO INCLUDES MECHANICAL ROOFTOP UNITS, AN EMERGENCY GENERATOR, AND A EXTERIOR LIQUID OXYGEN STORAGE YARD.

I. APPLICABLE CODES:

FEDERAL
- A. 2010 AMERICANS WITH DISABILITIES ACT
- B. FEDERAL CMS AND JOINT COMMISSION
  - 2012 NFPA 99 HEALTH CARE FACILITIES CODE
  - 2012 NFPA 101 LIFE SAFETY CODE WITH CMS POLICIES

STATE
- A. 2023 FLORIDA BUILDING CODE - 8TH EDITION
  - (FBC, INCLUDES SECTION 449 - HOSPITALS)
- B. 2023 FLORIDA BUILDING CODE - ACCESSIBILITY
- C. 2023 FLORIDA BUILDING CODE - MECHANICAL
- D. 2023 FLORIDA BUILDING CODE - PLUMBING
- E. 2023 FLORIDA BUILDING CODE - FUEL GAS
- F. 2020 NFPA 70 - NATIONAL ELECTRICAL CODE
- G. 2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION
- H. 2023 FLORIDA BUILDING CODE - TEST PROTOCOLS
- I. 2023 FLORIDA FIRE PREVENTION CODE - 8TH EDITION; INCLUDING:
  - 2021 NFPA 1 FIRE CODE
  - 2021 NFPA 101 LIFE SAFETY CODE (LSC)
- J. FLORIDA STATE FIRE CODES ADOPTED BY THE FIRE MARSHAL PER RULE 69A-3.012 AND REFERENCED NFPA STANDARDS:
  - 2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS
  - 2019 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
  - 2021 NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS
  - 2021 NFPA 54 NATIONAL FUEL GAS CODE
  - 2020 NFPA 55 COMPRESSED GASES AND CRYOGENIC FLUIDS CODE
  - 2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
  - 2021 NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
  - 2021 NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS
  - 2021 NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
  - 2021 NFPA 99 HEALTH CARE FACILITIES
  - 2019 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
- K. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS, 2022 EDITION
  - SECTION 2.6 REHABILITATION HOSPITALS AND BY REFERENCE: SECTION 2.1 AND 2.2 AND ALL OF CHAPTER 1
- L. ASTM E96 (2016) - WATER VAPOR TRANSMISSION
- M. ASCE 7 (2022) WITH SUPPLEMENT NO. 1 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- N. ANSI / ASHRAE / ASHE STANDARD 170 (2021) - VENTILATION OF HEALTHCARE FACILITIES

II. OCCUPANCY TYPES:
- A. INSTITUTIONAL - GROUP I-2, CONDITION 2 (FBC-2023 308.4)
- B. NEW HEALTH CARE - HOSPITAL (LSC-2021 CH. 18)

III. CONSTRUCTION TYPE:
- A. TYPE II B (FBC-2023 TABLE 601)
- B. TYPE II (0, 0, 0) (NFPA 220)

IV. STRUCTURAL FIRE RATINGS:
PRIMARY STRUCTURAL FRAME: 0 HR (FBC-2023 TABLE 601)
FLOOR CONSTRUCTION & SECONDARY MEMBERS: 0 HR (FBC-2023 TABLE 601)
ROOF CONSTRUCTION & SECONDARY MEMBERS: 0 HR (FBC-2023 TABLE 601)

V. FIRE SUPPRESSION SYSTEM:
COMPLETE AUTOMATIC SPRINKLER PROTECTION TO BE PROVIDED FOR BUILDING PER FBC-2023 903.2.6 AND LSC-2021 18.3.5.1.

GENERAL NOTES - LIFE SAFETY PLAN

1. FIRE RESISTANCE RATINGS SHOWN ARE MINIMUM RATINGS REQUIRED. REFER TO PARTITION TYPES, AND SPECIFICATIONS, FOR MORE INFORMATION
2. FIRE RESISTANCE RATINGS IN PARTITIONS ARE SHOWN WHERE PARTITIONS ARE NOT CUT BY DOORS, WINDOWS, STOREFRONTS, OR OTHER OBJECTS. RATED PARTITION MAY EXIST ABOVE OBJECTS.
3. PROVIDE F.E./F.E.C. IN ACCORDANCE WITH NFPA 10 AND PER SCHEDULE OUTLINED IN SPECIFICATIONS INCLUDING BUT NOT LIMITED TO STORAGE ROOMS OVER 100 SF, ALL ELECTRICAL ROOMS, ALL MECHANICAL ROOMS, AND KITCHEN. MAX TRAVEL DISTANCE TO ANY FIRE EXTINGUISHER TO BE 75'-0" CONTRACTOR TO VERIFY IN FIELD AND RE-LOCATE OR PROVIDE ADDITIONAL EXTINGUISHERS AS REQUIRED.
4. REF: MISCELLANEOUS DETAILS FOR RECESSED FIRE EXTINGUISHER CABINET IN RATED WALLS.
5. INSTALL EXIT LIGHT FIXTURED CENTERED ABOVE DOOR FRAME AT ALL DOORS DENOTED AS AN EXIT. CENTER ABOVE DOOR LEAF AT DOUBLE EGRESS DOORS.
6. ALL DOORS IN SMOKE TIGHT WALLS TO RECEIVE SMOKE GASKETS, CLOSERS AND BE POSITIVE LATCHING.
7. SMOKE COMPARTMENTS CONTAINING PATIENT SLEEPING UNITS SHALL BE PROVIDED WITH QUICK RESPONSE SPRINKLERS CONSISTENT WITH NFPA 13.
8. ALL WAITING AREAS OPEN TO THE PATH OF EGRESS SHALL BE PROVIDED WITH QUICK RESPONSE SPRINKLERS.
9. VERIFY FINAL STAND PIPE LOCATION WITH FIRE MARSHAL.
10. IN ALL CONCEALED SPACES, ALL EXPOSED SURFACES SHALL HAVE FLAME SPREAD RATING OF 25 OR LESS; MATERIALS HAVE BEEN DEMONSTRATED NOT TO PROPOGATE FIRE IN THE FORM IN WHICH THEY ARE INSTALLED SHALL NOT REQUIRE SPRINKLER PROTECTION, SPACES HAVING EXPOSED COMBUSTIBLE INSULATION WHERE THE HEAT CONTENT OF THE FACING/SUBSTRATE DOES NOT EXCEED 1,000 BTU SHALL NOT REQUIRE SPRINKLER PROTECTION, TYPICAL.
11. CONTRACTOR TO PROVIDE 3 INCH HIGH STENCILED BLOCK LETTERS IN RED ABOVE CEILING TO IDENTIFY EACH RATED WALL ASSEMBLY (FIRE/SMOKE/SMOKE BARRIER, ETC.) OR IN HEIGHT AS REQUIRED BY AHJ. REF: SHEET A5.70
12. EMERGENCY RESPONDER RADIO COMMUNICATIONS SYSTEMS:
    "IT IS UNDERSTOOD AND ACKNOWLEDGED THAT IF THE EMERGENCY RESPONDER RADIO COMMUNICATIONS SIGNAL IS BELOW ACCEPTABLE LEVELS AS DEFINED BELOW A BDA WILL BE REQUIRED TO BE INSTALLED BEFORE ISSUANCE OF C/O."

    MINIMUM ACCETABLE SIGNAL STRENGTH WILL BE AS FOLLOWS:
    RADIO COVERAGE REQUIREMENTS: CRITICAL AREAS TO INCLUDE FIRE COMMAND CENTERS, FIRE PUMP ROOMS, EXIT STAIRS, EXIT PASSAGEWAYS, ELEVATOR LOBBIES, AND OTHER AREAS DEEMED CRITICAL BY THE AUTHORITY HAVING JURISDICTION, SHALL BE PROVIDED WITH 99% FLOOR AREA RADIO COVERAGE. GENERAL BUILDING AREAS SHALL BE PROVIDED WITH 95% FLOOR AREA RADIO COVERAGE.

    SIGNAL STRENGTH REQUIREMENTS: MINIMUM INBOUND SIGNAL STRENGTH OF -95 DBM SHALL BE PROVIDED THROUGHOUT THE COVERAGE AREA WITH AN INBOUND SIGNAL LEVEL OF DAQ 3.0 MINIMUM OUTBOUND SIGNAL STRENGTH OF -95 DBM AT THE DONOR SITE SHALL BE PROVIDED FROM THE COVERAGE AREA WITH AN OUTBOUND SIGNAL LEVEL OF DAQ 3.0.

SCOPE OF WORK - LIFE SAFETY DATA

VI. HEIGHT AND AREA
- MAX. ALLOWABLE AREA PER FLOOR: 44,000 (FBC-2023 TABLE 506.2)
- MAX. NUMBER OF STORIES: 1 STORY (FBC-2023 TABLE 504.4)
- MAX. ALLOWABLE HEIGHT: 55 FT (FBC-2023 504.3A)

ACTUAL GROSS BUILDING AREA: **39,300 GSF**

ACTUAL BUILDING HEIGHT: **25 FT (1 STORY)**

VII. FIRE SAFETY CONCEPT:
- DESIGN A PHYSICAL REHABILITATION HOSPITAL OF NONCOMBUSTIBLE CONSTRUCTION, FULLY SPRINKLERED
- 'NON-PATIENT CARE' AND 'PATIENT CARE NON-SLEEPING SUITES' HAVE BEEN PROVIDED TO MEET THE CORRIDOR ACCESS REQUIREMENTS (LSC-2021 18.2.5.6 & FBC-2023 407.4.1) THE MAXIMUM ALLOWABLE AREA OF A 'PATIENT CARE NON-SLEEPING SUITE' IS 12,500 SF, AND NOT GREATER THAN 15,000 SF, WHERE AUTOMATIC SMOKE DETECTION IS PROVIDED (LSC-2021 18.2.5.7.3.2 & FBC-2023 407.4.4.6).
- THREE SMOKE COMPARTMENTS ARE PROVIDED PER FBC-2023 407.4 AND LSC-2021 18.3.7.1

VIII. OTHER LIFE SAFETY CONSIDERATIONS (MOST STRINGENT OF APPLICABLE CODES INDICATED):

A. OCCUPANT LOAD (FBC-2023 TABLE 1004.5): SEE OCCUPANCY TABLES, LS1.01.
TOTAL = 269 OCCUPANTS

B. EXIT CAPACITY (FBC-2023 1005.3): SEE EXIT SCHEDULE, LS1.01.
FIRST FLOOR: 269 OCC. X 0.2 = 53.8" REQUIRED EXIT WIDTH
PROVIDED: = 415.5" (2,077 OCCUPANTS)

C. CORRIDOR WIDTH (FBC-2023 1020.3, LSC-2021 18.2.3.5 & AIA/HHS 5.2.1.1):
- GROUP I-2 IN AREAS WHERE REQ. FOR BED MOVEMENT 96" MINIMUM
- ALL OTHER AREAS 44" MINIMUM

D. DEAD END (FBC-2023 1020.5):
- 20' MAXIMUM

E. TRAVEL DISTANCE:
- ANY POINT IN A "PATIENT CARE NON-SLEEPING SUITE" TO EXIT ACCESS DOOR - 100' MAX. (LSC-2021 18.2.5.7.3.3 & FBC-2023 407.4.4.3)
- ANY POINT TO AN EXIT - 200' MAX (FBC-2023 TABLE 1017.2).
- ANY POINT IN A SMOKE COMPARTMENT TO A SMOKE BARRIER DOOR - 200' MAX (FBC-2023 407.5)

F. DOOR WIDTH (LSC-2021 18.2.3.6/18.2.3.7):
- 41-1/2" CLEAR WIDTH MINIMUM FOR STRETCHER/BED USE;
- 32" CLEAR WIDTH MINIMUM ELSEWHERE.

G. INTERIOR FINISHES (FBC-2023 TABLE 803.11):
- EXITS AND EXIT ACCESS CORRIDORS - CLASS A MAXIMUM FLAME SPREAD
- ROOMS WITH A CAPACITY OF FOUR PERSONS OR LESS - CLASS C FLAME SPREAD
- SMOKE PRODUCTION MUST BE 450 OR LESS UNDER ASTM E 84

H. CORRIDOR CONSTRUCTION (FBC-2023 407.3):
- SMOKE PARTITIONS PER FBC 710 WITH WALLS EXTENDED TO DECK OR TO CEILING MEMBRANE THAT LIMITS THE TRANSFER OF SMOKE.

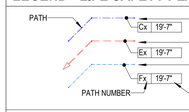
I. CORRIDOR DOORS (FBC-2023 407.3.1):
- NO FIRE PROTECTION RATING REQUIRED; MUST LIMIT THE TRANSFER OF SMOKE AND BE EQUIPPED WITH POSITIVE LATCHING HARDWARE.

J. INCIDENTAL USE/HAZARDOUS AREA SEPARATION (FBC-2023 509 & LSC-2021 18.3.2.1):
- WASTE COLLECTION ROOMS: - 1-HOUR
- SOILED LINEN HOLDING ROOMS: - 1-HOUR
- STORAGE ROOMS GREATER THAN 100 SQ. FT. IN AREA: - 1-HOUR
- LABORATORIES NOT CLASSIFIED AS GROUP H: - 1-HOUR & SPRINKLERED

K. FLOOR COVERING (FBC-2023 804.4.2):
- ENCLOSED EXITS & EXIT ACCESS - CLASS II MINIMUM CRITICAL RADIANT FLUX REQUIREMENTS WHEN FULLY SPRINKLERED

L. ACCESSIBLE EGRESS (FBC-2023 1007.1, FAC-2020 207, AND LSC-2021 7.5.4.1.3):
- OUTSIDE DOORS AND STANDARD EXIT STAIRS CAN SERVE AS ACCESSIBLE MEANS OF EGRESS.

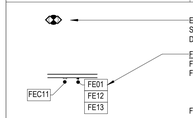
LEGEND - LIFE SAFETY PLAN



BUILDING ELEMENTS
- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)
- 2 HR FIRE RATED BARRIER



- (F) FIRE ALARM PULL DEVICE
- (FAA) FIRE ALARM ANNUNCIATOR
- (SD) SMOKE DETECTOR
- (HD) HEAT DETECTOR



LIFE SAFETY SUITES

SUITE	AREA	SUITE TYPE	EXITS REQUIRED / PROVIDED	MAX TRAVEL DISTANCE - 100'
LEVEL 1				
SUITE A1	1407.72 SF	A1-NONSLEEPING/NONPATIENT	1/1	62' - 3"
SUITE A2	1679.71 SF	A2-NONSLEEPING/NONPATIENT	1/2	55' - 3"
SUITE A3	2535.31 SF	A3-NONSLEEPING/PATIENT	1/2	70' - 2"

LIFE SAFETY NOTE BY

NUMBER	NOTE
01	DELAYED EGRESS LOCATION.
02	MAGNETIC HOLD OPEN - (2) PER OPENING. DEVICE TO RELEASE UPON FIRE ALARM ACTIVATION.
03	KNOX BOX, COORDINATE LOCATION WITH FIRE MARSHALL.
04	FULLY SPRINKLERED CANOPY, REFER TO FIRE PROTECTION DRAWINGS.

LIFE SAFETY- OCCUPANCY- LEVEL 1

AREA-FUNCTION (OLF)	AREA	AREA PER OCCUPANT	OCCUPANTS	NO. OF BEDS	OCCUPANT LOAD OF ADJACENT COMPARTMENT	NUMBER OF BEDS IN ADJACENT COMPARTMENT	REQUIRED REFUGE PER OCCUPANTS	REQUIRED REFUGE BEDS	TOTAL REQUIRED AREA	EXIT WIDTH PER OCCUPANT	REQUIRED EXIT WIDTH
SMOKE COMPARTMENT A											
(FBC2023) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	2804.72 SF	300.00 SF	11	0	0	0	77.00 SF	0.00 SF	77.00 SF	0.2	2.2
(FBC2023) BUSINESS AREAS	1506.84 SF	150.00 SF	11	0	0	0	77.00 SF	0.00 SF	77.00 SF	0.2	2.2
(FBC2023) INSTITUTIONAL AREAS-INPATIENT TREATMENT AREAS	6188.55 SF	240.00 SF	27	0	104	20	917.00 SF	300.00 SF	762.00 SF	0.2	5.4
(FBC2023) KITCHENS- COMMERCIAL	1786.86 SF	200.00 SF	9	0	0	0	63.00 SF	0.00 SF	63.00 SF	0.2	1.8
	12286.97 SF		58	0	104	20	1134.00 SF	300.00 SF	979.00 SF		11.6
SMOKE COMPARTMENT B											
(FBC2023) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	417.42 SF	300.00 SF	2	0	0	0	7.00 SF	0.00 SF	7.00 SF	0.2	0.4
(FBC2023) INSTITUTIONAL AREAS-SLEEPING AREAS	12903.84 SF	120.00 SF	108	20	164	20	1904.00 SF	1200.00 SF	3104.00 SF	0.2	21.6
	13321.27 SF		110	20	164	20	1911.00 SF	1200.00 SF	3111.00 SF		22
SMOKE COMPARTMENT C											
(FBC2023) ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1036.60 SF	300.00 SF	4	0	0	0	28.00 SF	0.00 SF	28.00 SF	0.2	0.8
(FBC2023) INSTITUTIONAL AREAS-SLEEPING AREAS	11605.08 SF	120.00 SF	97	20	104	20	1407.00 SF	1200.00 SF	2607.00 SF	0.2	19.4
	12641.68 SF		101	20	104	20	1435.00 SF	1200.00 SF	2635.00 SF		20.2
GRAND TOTAL:	38249.92 SF		269	40	372	60	4480.00 SF	2700.00 SF	6725.00 SF		53.8

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2026 E4H - Environments For Health, LLC

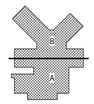
exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

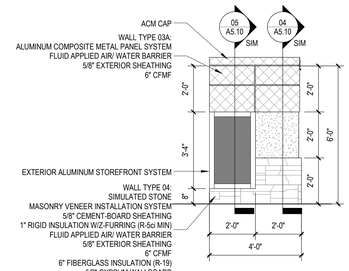
CURRENT:

SHEET TITLE AND NUMBER:

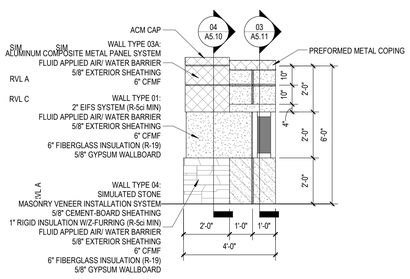
LS1.01

LIFE SAFETY PLAN - LEVEL 1

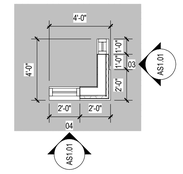
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONE INCH LONG AT 22" SHEETS



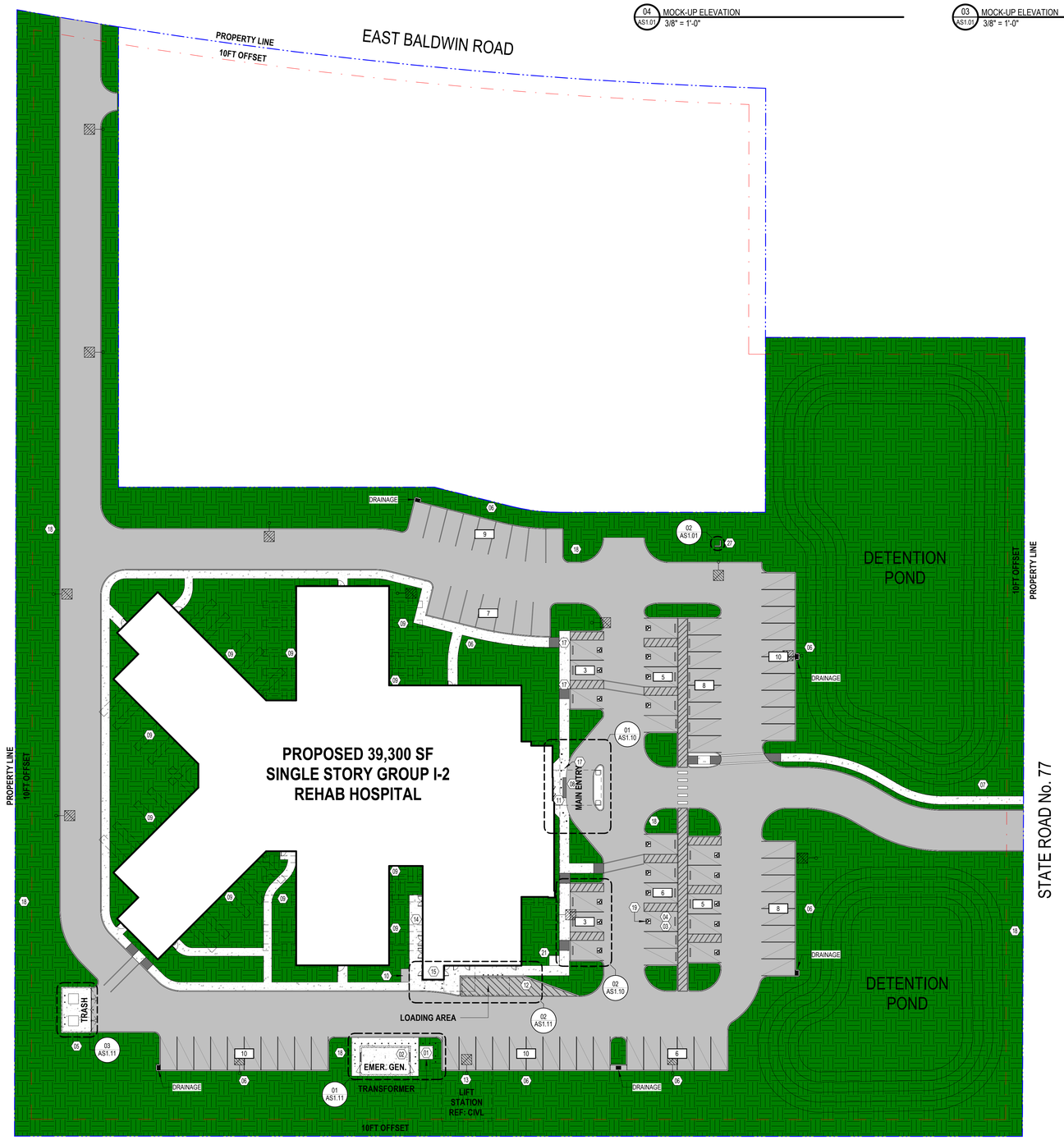
04 AS1.01 MOCK-UP ELEVATION
3/8" = 1'-0"



03 AS1.01 MOCK-UP ELEVATION
3/8" = 1'-0"

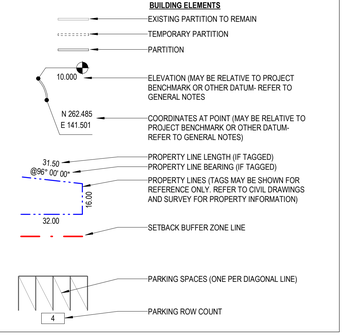


02 AS1.01 MOCK-UP PLAN
1/4" = 1'-0"



01 AS1.01 ARCHITECTURAL SITE PLAN
1" = 30'-0"

LEGEND - SITE PLAN



GENERAL NOTES - SITE PLAN

1. REFER TO CIVIL DRAWINGS FOR ALL SITE UTILITIES, DRAINAGE, PARKING STRIPING, GRADING, AND PAVING.
2. REFER TO ELECTRICAL DRAWINGS FOR SITE INFORMATION INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   - SITE LIGHT STANDARD LOCATIONS AND SIZES.
   - ELECTRICAL SLEEVING LOCATIONS AND SIZES.
   - TELEPHONE AND CABLE T.V. PULL BOX LOCATIONS.
   - ELECTRICAL MANHOLE LOCATIONS AND DETAILS.
   - PULL BOX LOCATIONS AND SIZES FOR VARIOUS SITE LIGHTING ELEMENTS.
   - EXTERIOR BUILDING ILLUMINATION AND UTILITY COORDINATION.
3. REFER TO LANDSCAPE DRAWINGS FOR ALL LANDSCAPING AND IRRIGATION WORK.
4. REFER TO VENDOR SIGNAGE PACKAGE FOR ALL MONUMENT AND DIRECTIONAL SIGNAGE SIZES AND LOCATIONS.
5. PROVIDE A CONCRETE SPLASH BLOCK AT ALL ROOF DRAIN OUTLETS, REF. MEP DRAWINGS FOR LOCATIONS.
6. GENERAL CONTRACTOR TO VERIFY SPECIFIC SIZE AND REQUIREMENTS FOR DUMPSTER ENCLOSURE PER OWNER/VENDOR CONTRACT PRIOR TO CONSTRUCTION OF DUMPSTER ENCLOSURE.
7. REFER TO TYPICAL ADA PARKING LAYOUT FOR LOCATIONS OF WHEEL STOPS, SIGNAGE, AND STRIPING INFORMATION.

HOSPITAL PARKING SPACES PROVIDED

PARKING SPACE TYPE	ANGLE	WIDTH	LENGTH	COUNT	CURRENT REV
10X20- 90 DEGREES	90.000°	10'-0"	20'-0"	55	
ACCESSIBLE (60" ACCESS) 12X20	90.000°	12'-0"	20'-0"	19	
				74	

SITE PLAN NOTES BY NUMBER

NUMBER	NOTE
01	LOCATION OF TRANSFORMER, GC TO COORDINATE PAD SIZE AND LOCATION WITH UTILITY. REFER TO CIVIL AND ELECTRICAL DRAWINGS.
02	IRRIGATION CONTROLLER, REFER TO LANDSCAPE DRAWINGS.
03	WHEEL STOPS TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
04	HANDICAP PARKING SIGN TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
05	DUMPSTER ENCLOSURE, REFER TO ENLARGED SITE PLANS FOR DETAILS.
06	LIGHT STANDARD, REFER TO ELECTRICAL DRAWINGS.
07	ILLUMINATED MONUMENT SIGN UNDER SEPARATE PERMIT BY OWNER. GC TO COORDINATE SIGN BASE AND POWER REQUIREMENTS WITH OWNER VENDOR DRAWINGS.
08	PASSENGER LOADING ZONE, MAX 2% SLOPE IN ALL DIRECTIONS.
09	DASHED LINES INDICATE 20FT CLEAR VISTA REQUIREMENTS FROM PATIENT ROOM WINDOWS PER 2023 FBC 449.3.4.1 (15FT CLEAR TO PARKING)
10	GREASE TRAP, REFER TO PLUMBING AND CIVIL DRAWINGS.
11	KNOX BOX, COORDINATE LOCATION WITH FIRE MARSHAL.
12	FIRE DEPARTMENT CONNECTION, REFER TO MEP.
13	WATER METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
14	GAS METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
15	O2 STORAGE ROOM. REFER TO LIFE SAFETY AND PLUMBING DRAWINGS.
16	STEEL PIPE BOLLARD, REFER TO CIVIL.
17	ADA TRUNCATED DOMES PAVERS. REFER TO CIVIL FOR DETAILS.
18	FIRE HYDRANT. REFER TO CIVIL FOR DETAILS
19	PROVIDE PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EACH STALL IF REQUIRED BY LOCAL AHJ.
20	EMERGENCY GENERATOR DOCKING STATION, REFERENCE ELECTRICAL DRAWINGS FOR LOCATION AND MOUNTING REQUIREMENTS.
21	BIKE RACK PER CITY DESIGN STANDARDS. REFER TO CIVIL.
22	DECORATIVE LIGHTED BOLLARD, REFER TO CIVIL.
23	EXTERIOR HOSE BIB FOR CART WASH. REFER TO PLUMBING.
24	REMOVEABLE BOLLARD, REFER TO CIVIL.
27	MOCKUP WALL, G.C. TO SELECT ACTUAL LOCATION.

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

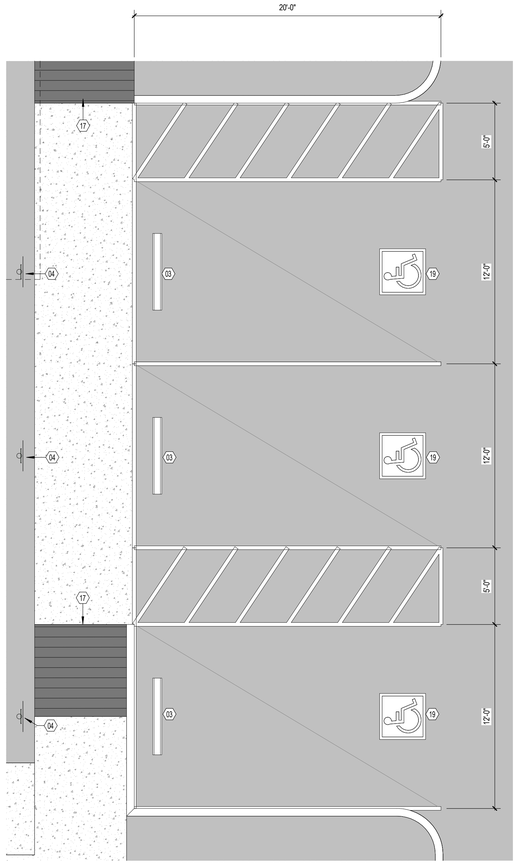
AS1.01

ENLARGED OVERALL SITE PLAN

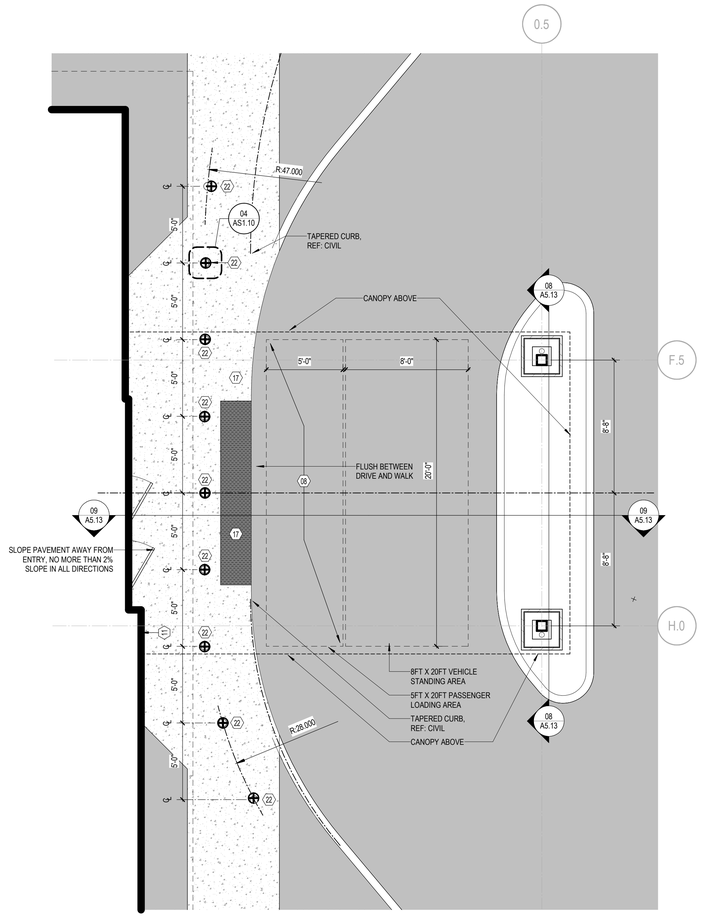
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH D SHEETS

SITE PLAN NOTES BY NUMBER

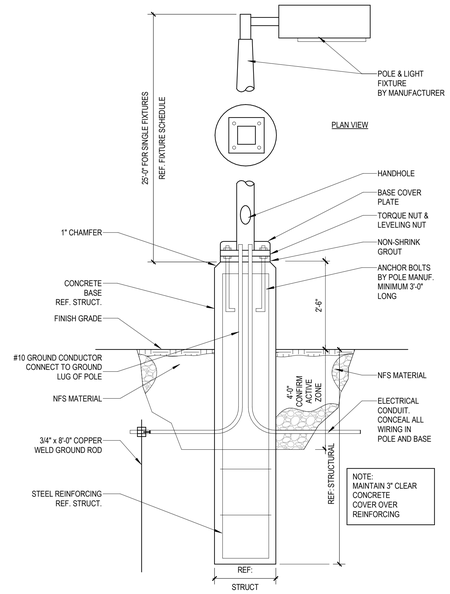
NUMBER	NOTE
01	LOCATION OF TRANSFORMER. GC TO COORDINATE PAD SIZE AND LOCATION WITH UTILITY. REFER TO CIVIL AND ELECTRICAL DRAWINGS.
02	IRRIGATION CONTROLLER, REFER TO LANDSCAPE DRAWINGS.
03	WHEEL STOPS TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
04	HANDICAP PARKING SIGN TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
05	DUMPSTER ENCLOSURE. REFER TO ENLARGED SITE PLANS FOR DETAILS.
06	LIGHT STANDARD, REFER TO ELECTRICAL DRAWINGS.
07	ILLUMINATED MONUMENT SIGN UNDER SEPARATE PERMIT BY OWNER. GC TO COORDINATE SIGN BASE AND POWER REQUIREMENTS WITH OWNER VENDOR DRAWINGS.
08	PASSENGER LOADING ZONE, MAX 2% SLOPE IN ALL DIRECTIONS.
09	DASHED LINES INDICATE 20FT CLEAR VISTA REQUIREMENTS FROM PATIENT ROOM WINDOWS PER 2023 FBC 449.3.4.1 (15FT CLEAR TO PARKING)
10	GREASE TRAP, REFER TO PLUMBING AND CIVIL DRAWINGS.
11	KNOX BOX. COORDINATE LOCATION WITH FIRE MARSHAL.
12	FIRE DEPARTMENT CONNECTION, REFER TO MEP.
13	WATER METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
14	GAS METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
15	O2 STORAGE ROOM. REFER TO LIFE SAFETY AND PLUMBING DRAWINGS.
16	STEEL PIPE BOLLARD, REFER TO CIVIL.
17	ADA TRUNCATED DOMES PAVERS. REFER TO CIVIL FOR DETAILS.
18	FIRE HYDRANT. REFER TO CIVIL FOR DETAILS
19	PROVIDE PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EACH STALL IF REQUIRED BY LOCAL AHJ.
20	EMERGENCY GENERATOR DOCKING STATION, REFERENCE ELECTRICAL DRAWINGS FOR LOCATION AND MOUNTING REQUIREMENTS.
21	BIKE RACK PER CITY DESIGN STANDARDS. REFER TO CIVIL.
22	DECORATIVE LIGHTED BOLLARD, REFER TO CIVIL.
23	EXTERIOR HOSE BIB FOR CART WASH. REFER TO PLUMBING.
24	REMOVEABLE BOLLARD. REFER TO CIVIL.
27	MOCKUP WALL, G.C. TO SELECT ACTUAL LOCATION.



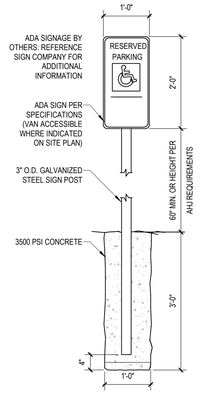
02 AS1.10 ENLARGED PLAN - ADA PARKING
1/4" = 1'-0"



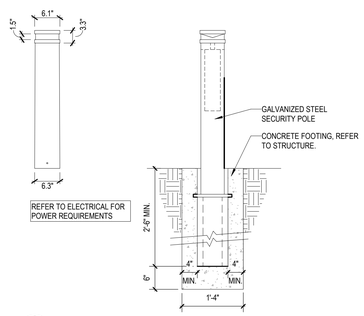
01 AS1.10 ENLARGED PLAN - MAIN CANOPY
1/4" = 1'-0"



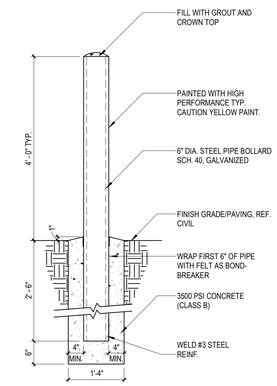
07 AS1.10 SITE DETAIL - LIGHT STANDARD
1/2" = 1'-0"



06 AS1.10 SITE DETAIL - ADA/PARKING SIGN
3/4" = 1'-0"



04 AS1.10 LIGHT BOLLARD DETAIL
3/4" = 1'-0"



03 AS1.10 SITE DETAIL - STEEL PIPE BOLLARD
3/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

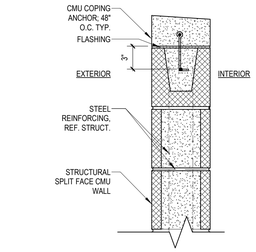
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

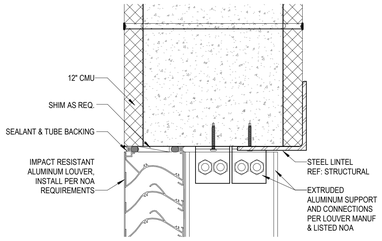
AS1.10

ENLARGED SITE PLANS AND ELEVATIONS

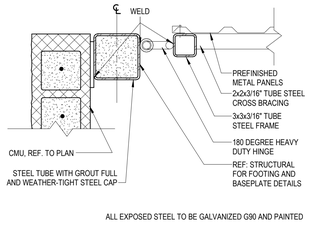
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS



15 AS1.11 CMU WALL - SECTION DETAIL AT CAP
1 1/2" = 1'-0"

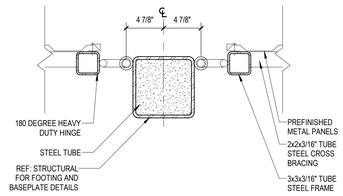


14 AS1.11 ENLARGED SECTION DETAIL - LOUVER HEAD
3" = 1'-0"



ALL EXPOSED STEEL TO BE GALVANIZED G90 AND PAINTED

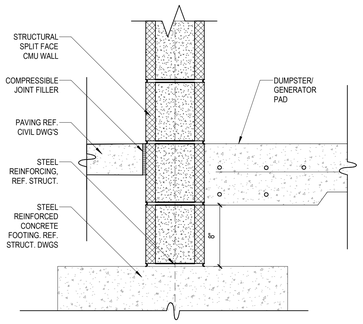
13 AS1.11 SITE DETAIL - GATE POST
1 1/2" = 1'-0"



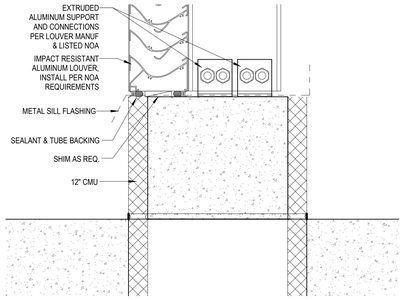
12 AS1.11 SITE DETAIL - CENTER GATE POST
1 1/2" = 1'-0"

SITE PLAN NOTES BY NUMBER

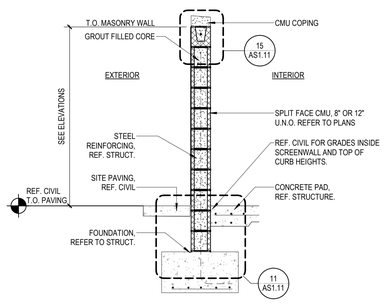
NUMBER	NOTE
01	LOCATION OF TRANSFORMER. GC TO COORDINATE PAD SIZE AND LOCATION WITH UTILITY. REFER TO CIVIL AND ELECTRICAL DRAWINGS.
02	IRRIGATION CONTROLLER, REFER TO LANDSCAPE DRAWINGS.
03	WHEEL STOPS TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
04	HANDICAP PARKING SIGN TYPICAL AT ADA PARKING STALLS, REFER TO CIVIL DRAWINGS.
05	DUMPSTER ENCLOSURE. REFER TO ENLARGED SITE PLANS FOR DETAILS.
06	LIGHT STANDARD, REFER TO ELECTRICAL DRAWINGS.
07	ILLUMINATED MONUMENT SIGN UNDER SEPARATE PERMIT BY OWNER. GC TO COORDINATE SIGN BASE AND POWER REQUIREMENTS WITH OWNER VENDOR DRAWINGS.
08	PASSENGER LOADING ZONE, MAX 2% SLOPE IN ALL DIRECTIONS.
09	DASHED LINES INDICATE 29FT CLEAR VISTA REQUIREMENTS FROM PATIENT ROOM WINDOWS PER 2023 FBC 449.3.4.1 (15FT CLEAR TO PARKING)
10	GREASE TRAP, REFER TO PLUMBING AND CIVIL DRAWINGS.
11	KNOX BOX. COORDINATE LOCATION WITH FIRE MARSHAL.
12	FIRE DEPARTMENT CONNECTION, REFER TO MEP.
13	WATER METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
14	GAS METER, REFER TO MEP DRAWINGS. VERIFY SIZE AND LOCATIONS OF PROTECTIVE BOLLARDS.
15	O2 STORAGE ROOM. REFER TO LIFE SAFETY AND PLUMBING DRAWINGS.
16	STEEL PIPE BOLLARD, REFER TO CIVIL.
17	ADA TRUNCATED DOMES PAVERS. REFER TO CIVIL FOR DETAILS.
18	FIRE HYDRANT. REFER TO CIVIL FOR DETAILS
19	PROVIDE PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY AT EACH STALL IF REQUIRED BY LOCAL AHJ.
20	EMERGENCY GENERATOR DOCKING STATION, REFERENCE ELECTRICAL DRAWINGS FOR LOCATION AND MOUNTING REQUIREMENTS.
21	BIKE RACK PER CITY DESIGN STANDARDS. REFER TO CIVIL.
22	DECORATIVE LIGHTED BOLLARD, REFER TO CIVIL.
23	EXTERIOR HOSE BIB FOR CART WASH. REFER TO PLUMBING.
24	REMOVEABLE BOLLARD, REFER TO CIVIL.
27	MOCKUP WALL, G.C. TO SELECT ACTUAL LOCATION.



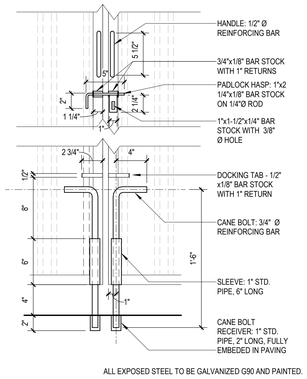
11 AS1.11 CMU WALL - SECTION DETAIL
1 1/2" = 1'-0"



10 AS1.11 ENLARGED SECTION DETAIL - LOUVER SILL
3" = 1'-0"

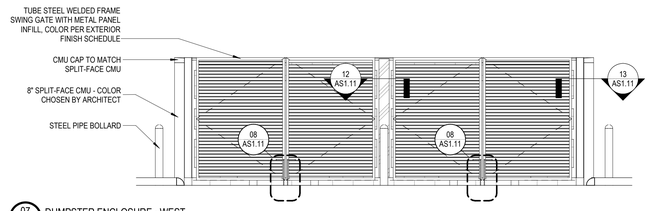


09 AS1.11 SITE DETAIL - TYPICAL SECTION AT CMU WALL
1/2" = 1'-0"

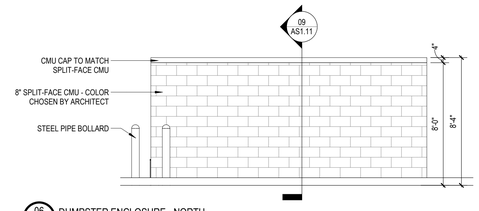


ALL EXPOSED STEEL TO BE GALVANIZED G90 AND PAINTED.

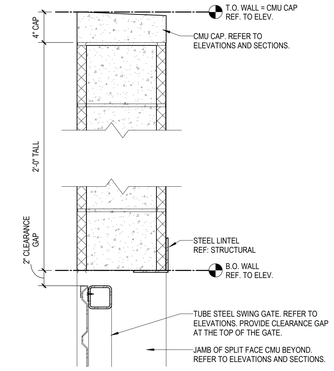
08 AS1.11 DUMPSTER ENCLOSURE HARDWARE
1 1/2" = 1'-0"



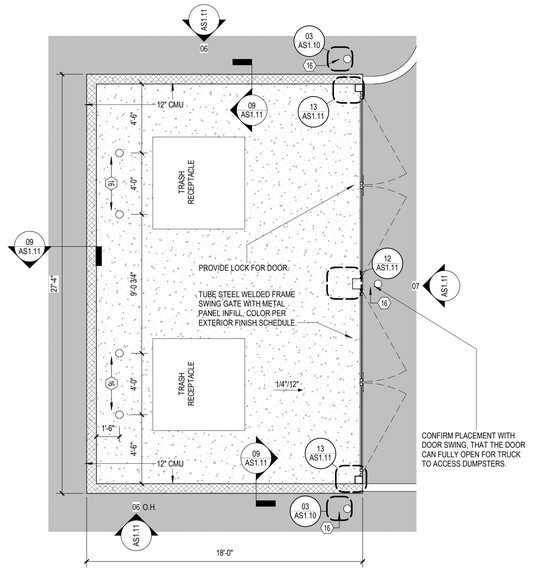
07 AS1.11 DUMPSTER ENCLOSURE - WEST
1/4" = 1'-0"



06 AS1.11 DUMPSTER ENCLOSURE - NORTH
1/4" = 1'-0"



16 AS1.11 CMU ABOVE GATE @ GENERATOR ENCLOSURE
1 1/2" = 1'-0"



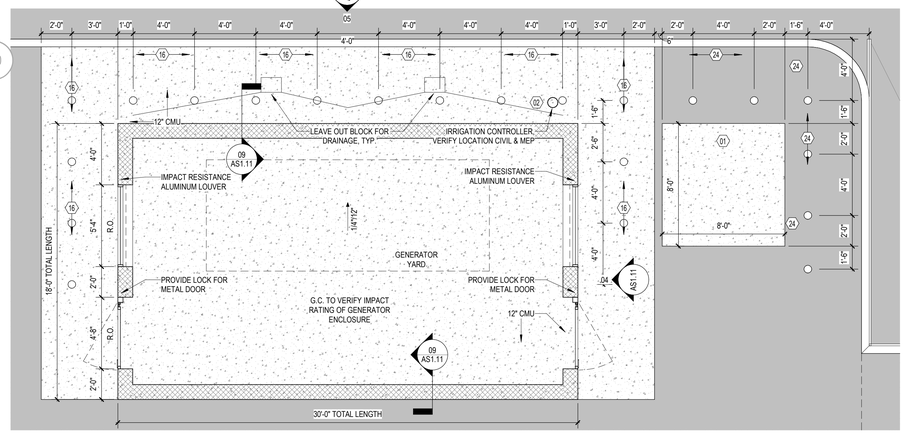
03 AS1.11 ENLARGED PLAN - DUMPSTER ENCLOSURE
1/4" = 1'-0"

05 AS1.11 GENERATOR ENCLOSURE - NORTH
1/4" = 1'-0"

04 AS1.11 GENERATOR ENCLOSURE - EAST
1/4" = 1'-0"

R.0

02 AS1.11 ENLARGED PLAN - MICRO BULK O2
1/4" = 1'-0"



01 AS1.11 ENLARGED PLAN - GENERATOR ENCLOSURE & TRANSFORMER
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com
© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

AS1.11

ENLARGED SITE PLANS AND ELEVATIONS

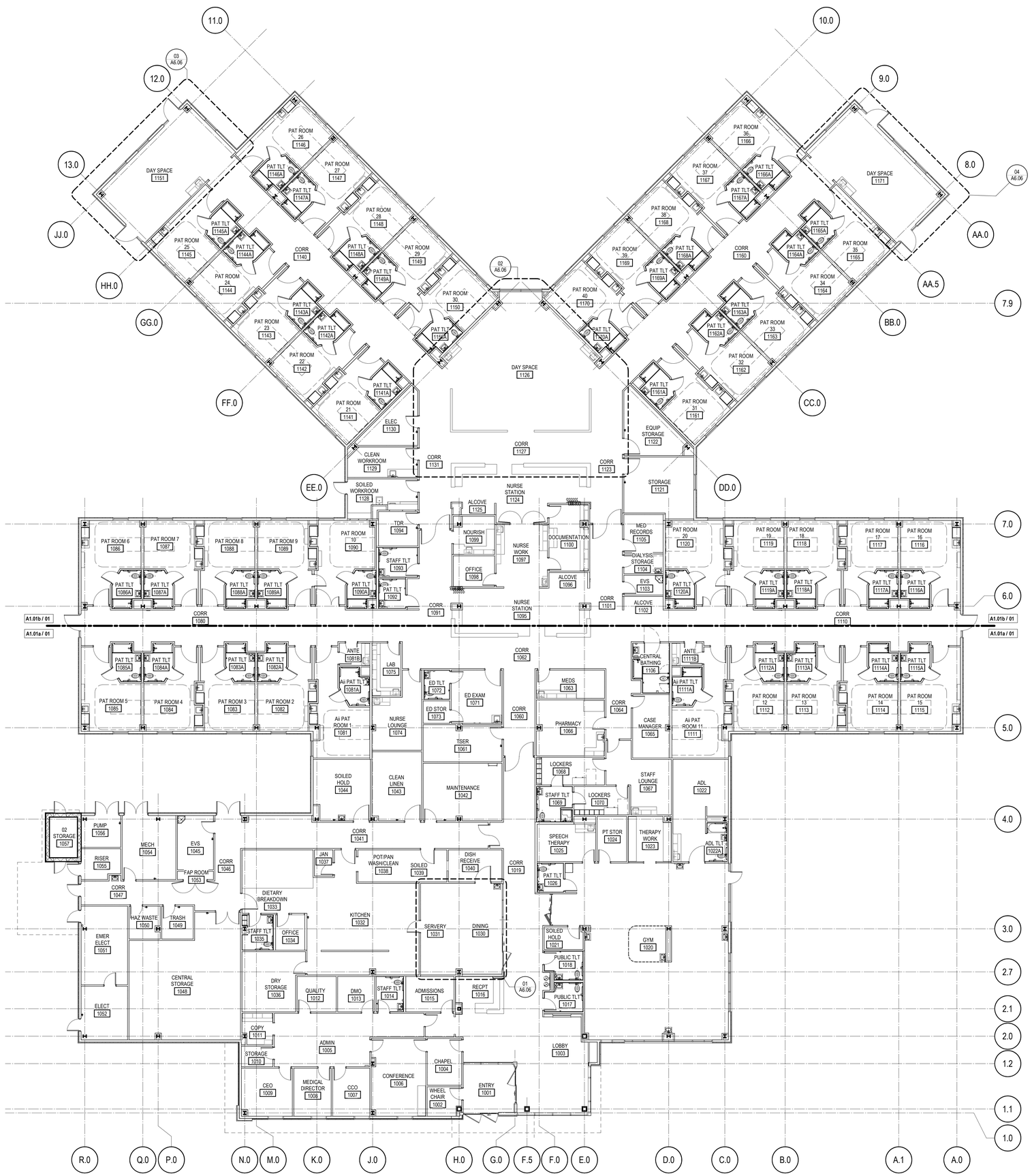
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

LEGEND - OVERALL FLOOR PLANS

BUILDING ELEVATIONS
- A1 / Ax.xx — DETAIL NUMBER / SHEET NUMBER NUMBER

BUILDING SECTIONS
- A2 / Ax.xx — DETAIL NUMBER / SHEET NUMBER NUMBER

BUILDING ELEMENTS
- PARTITION



01 / A1.01 — OVERALL FLOOR PLAN- LEVEL 1
3/32" = 1'-0"

TRUE NORTH | PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

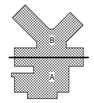
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A1.01

FLOOR PLAN- LEVEL 1

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ONE INCH LONG AT 11" X 17" SHEETS

FGI REQUIRED INPATIENT DAY SPACE

ROOM #	ROOM NAME	ROOM AREA
1030	DINING	317 SF
1126	DAY SPACE	1096 SF
1151	DAY SPACE	571 SF
1171	DAY SPACE	568 SF
PROVIDED SF:		2551 SF

FGI REQUIRED EMERGENCY EQUIPMENT

ROOM #	ROOM NAME	EQUIPMENT
1071	ED EXAM	CRASH CART
1096	ALCOVE	CRASH CART
1125	ALCOVE	CRASH CART

DAY SPACE REQUIREMENTS

DAY SPACE REQUIRED PER THE 2022 FGI - 2.6 - 2.3.1.2.

OUTPATIENT SERVICES: 55 S.F. PER PATIENT

CALCULATIONS:

REQUIRED: 55 S.F. x 40 PATIENT ROOMS = 2,200 MINIMUM S.F.

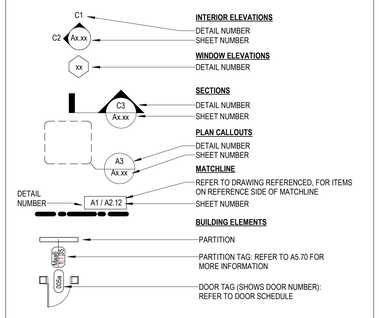
PROVIDED: 2,551 TOTAL S.F.

NOTE: FURNITURE LAYOUT NOT FINAL, OWNER TO PROVIDE FINAL VENDOR DRAWINGS.

FLOOR PLAN NOTES BY NUMBER

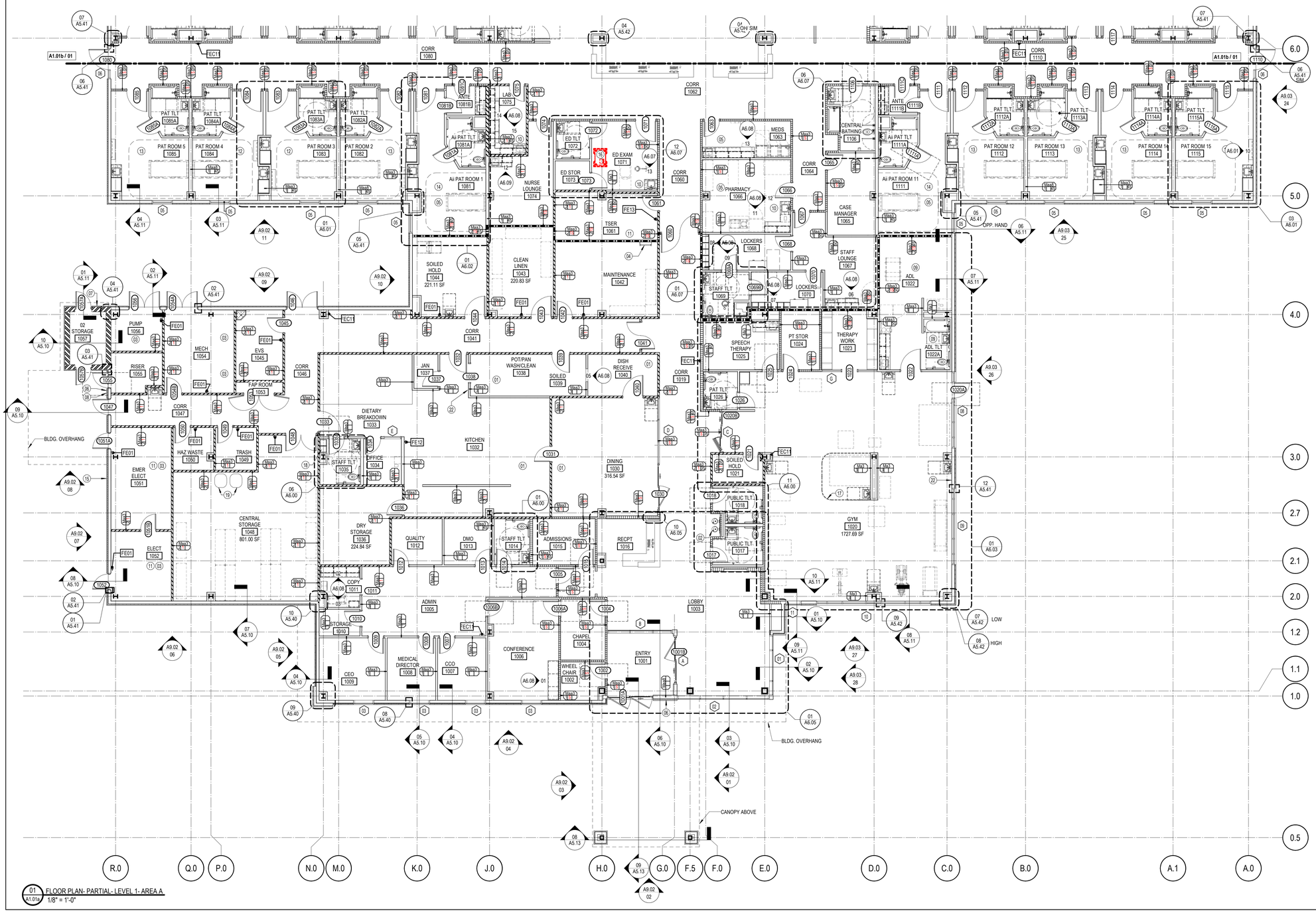
NUMBER	NOTE
01	REF. KITCHEN DRAWINGS FOR ALL F.R. TREATED WOOD BLOCKING, EQUIPEMENT PLACEMENT, OPENINGS, MOUNTING DETAILS & REQ'D MEP
02	ELECTRIC WATER COOLER, REF. G SERIES FOR MOUNTING HEIGHTS
03	PROVIDE HOUSEKEEPING PADS AS REQUIRED, REFERENCE MEP DRAWINGS FOR REQUIREMENTS
04	STEEL ROOF ACCESS LADDER TO ROOF HATCH, ABV. REF: SPECS & 10A5.50
05	ALL WALLS SHALL EXTEND TO DECK IN AI AND MED ROOMS
06	KNOX BOX, COORD. APPROVAL WITH FIRE MARSHALL FOR FINAL LOCATION
07	2 WEATHERPROOF LOUVERS WITH BIRDSCREEN MOUNTED AT 6" A.F.F. AND 6" BELOW FINISHED CEILING. REF: MEP
08	EMERGENCY OXYGEN INLET. REF. PLUMBING
09	EQUIPMENT AND PLUMBING FIXTURES IN ADL ARE FOR THERAPY PURPOSES ONLY AND NON-FUNCTIONING (INCLUDING OVEN/STOVE. NO HOOD IS NEEDED.)
10	EYE WASH LOCATION. REF: PLUMBING DRAWINGS
11	PROVIDE FIRE-RETARDANT PLYWOOD ON ALL WALLS FROM 18" A.F.F TO A MINIMUM HEIGHT OF 7'-0". DO NOT PAINT OVER UL OR MANUFACTURER STAMPS.
12	REF. A6.01 FOR ROOM LAYOUT INFORMATION
13	DIMENSIONS DIFFER FROM TYPICAL A6.01 ROOM LAYOUT, REF: A1.02a-02b
14	REF. A6.02 FOR ROOM LAYOUT INFORMATION
15	CART WASH LOCATION. OUTSIDE HOSE BIBB REQUIRED, REF: MEP DRAWINGS.
16	EMERGENCY EQUIPMENT LOCATED HERE.
17	PRIVACY SCREENS FOR PATIENT CARE STATIONS PROVIDED BY FURNITURE VENDOR / OWNER.
18	2- TIER METAL LOCKERS WITH SLOPED TOP.
19	OWNER PROVIDED POTABLE STORAGE TANKS (520 GALLONS TOTAL PER FBC 449.2.7.
20	PROVIDE BLOCKING IN WALL AS REQUIRED
21	DIALYSIS BOX, REF: MEP DRAWINGS
22	CONTRACTOR PROVIDED AND INSTALLED - WALL MOUNTED PORTABLE EYE WASH STATION, MASTERS # 9UBPMJC32K. NO PLUMBING CONNECTIONS REQUIRED. LOCATE 48" TO CENTER A.F.F.

LEGEND - PARTIAL FLOOR PLAN



GENERAL NOTES - PARTIAL FLOOR PLA

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
2. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLIN OF COLUMNS TO FACE OF FINISH INTERIOR WALLS AND TO OUTSIDE FACE OF EXTERIOR WALLS UNLESS OTHERWISE INDICATED OR DETAILED.
3. DIMENSIONS AT DOOR AND WINDOW OPENINGS ARE TO ROUGH OPENING UNLESS OTHERWISE NOTED. MASONRY PLAN DIMENSIONS ARE NOMINAL.
4. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, SHELL SPACES, AND MEP SUPPORT SPACES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLE IN FINISHED AREAS.
5. REFER TO LIFE SAFETY PLANS FOR RATING REQUIREMENTS OF PARTITIONS AND DOORS.
6. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, CABINET WORK AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
7. PROVIDE BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES, EQUIPMENT AND CABINETRY.
8. ALL SINK/LAVATORY LOCATIONS TO HAVE SURFACE MOUNTED PAPER TOWEL AND SOAP DISPENSERS. COORDINATE BLOCKING.
9. ALL TOILET FIXTURE WALLS SHALL HAVE A 6" STUD U.N.O.
10. RECESSED ITEMS (GREATER THAN 16 SQ. IN.) IN RATED AND/OR SMOKE WALLS, INCLUDING ELEC. PANELS, ELEC DUCTS, MED GAS VALVE BOXES, FIRE EXTINGUISHER CABINETS, ETC. SHALL BE BACKED WITH THE 5/8" TYPE "X" GYPSUM BOARD TO MAINTAIN RATING OF THE WALL. REF: A5 SERIES FOR DETAILS.
11. PROVIDE ONE MOP/BROOM HOLDER AT EACH JANITORS CLOSET WITH THE FRP SURROUND AT UTILITY SINK.
12. ALL PARTITIONS WITH TAGS INDICATING AN STC RATING ARE REQUIRED TO TERMINATE TO DECK REGARDLESS OF HEAD CONDITION LISTED. SEE A1.02a / A1.02b & A5.70.
13. REFERENCE SPECIFICATIONS FOR INSULATION TYPES.



01 A1.01a FLOOR PLAN- PARTIAL- LEVEL 1- AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
888.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

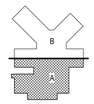
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A1.01a

FLOOR PLAN- LEVEL 1- AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ORIGINAL PLOT SIZE

FGI REQUIRED INPATIENT DAY SPACE

ROOM #	ROOM NAME	ROOM AREA
1030	DINING	317 SF
1126	DAY SPACE	1095 SF
1151	DAY SPACE	571 SF
1171	DAY SPACE	568 SF
PROVIDED SF:		2551 SF

FGI REQUIRED EMERGENCY EQUIPMENT

ROOM #	ROOM NAME	EQUIPMENT
1071	ED EXAM	CRASH CART
1096	ALCOVE	CRASH CART
1125	ALCOVE	CRASH CART

DAY SPACE REQUIREMENTS

DAY SPACE REQUIRED PER THE 2022 FGI - 2.6 - 2.3.1.2.

OUTPATIENT SERVICES: 55 S.F. PER PATIENT

CALCULATIONS:

REQUIRED: 55 S.F. x 40 PATIENT ROOMS = 2,200 MINIMUM S.F.

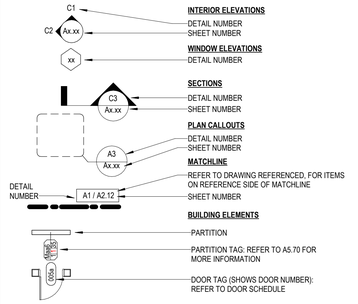
PROVIDED: 2,551 TOTAL S.F.

NOTE: FURNITURE LAYOUT NOT FINAL, OWNER TO PROVIDE FINAL VENDOR DRAWINGS.

FLOOR PLAN NOTES BY NUMBER

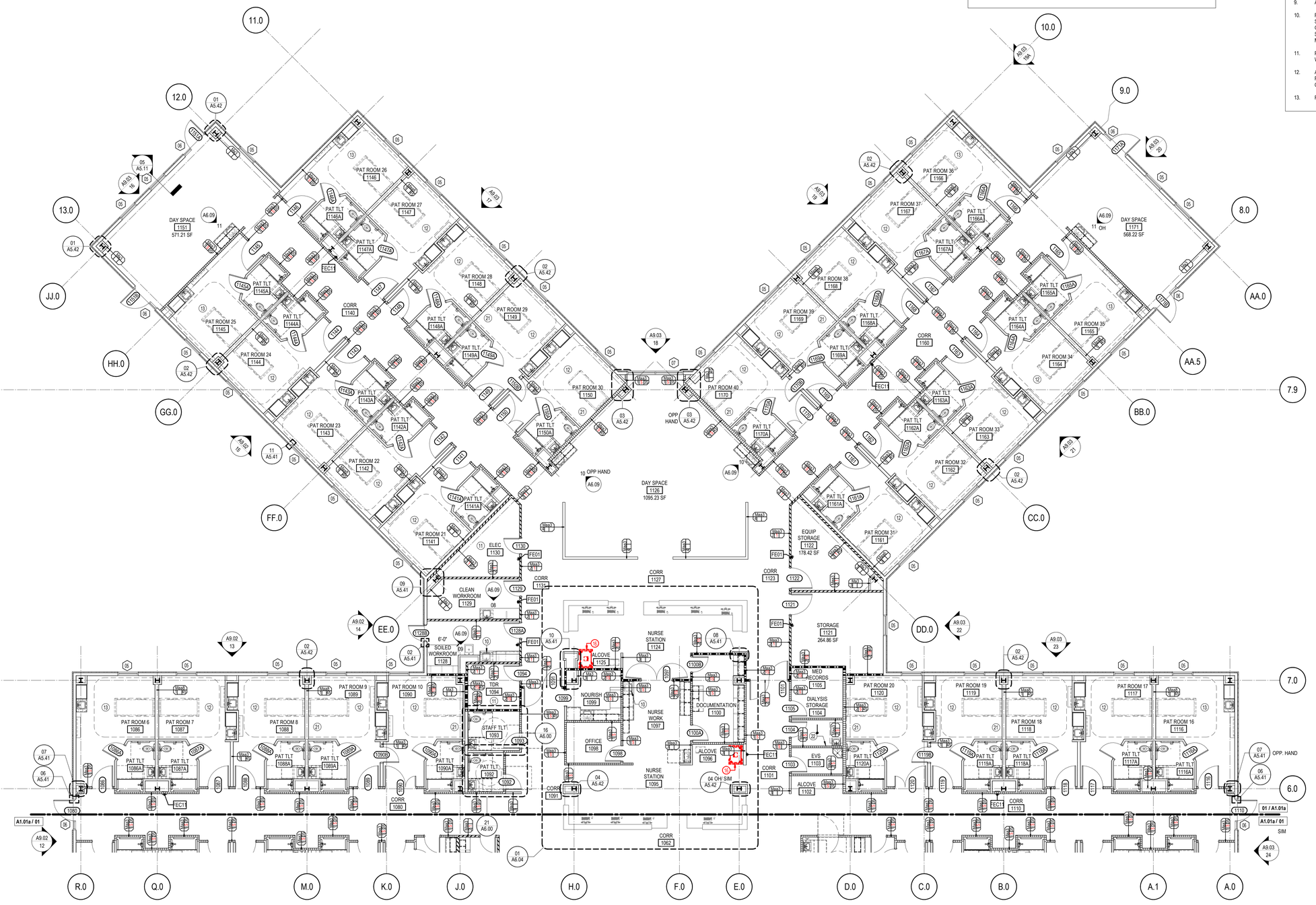
NUMBER	NOTE
01	REF. KITCHEN DRAWINGS FOR ALL F.R. TREATED WOOD BLOCKING, EQUIPEMENT PLACEMENT, OPENINGS, MOUNTING DETAILS & REQ'D MEP
02	ELECTRIC WATER COOLER, REF. G SERIES FOR MOUNTING HEIGHTS
03	PROVIDE HOUSEKEEPING PADS AS REQUIRED, REFERENCE MEP DRAWINGS FOR REQUIREMENTS
04	STEEL ROOF ACCESS LADDER TO ROOF HATCH; ABV. REF: SPECS & 10/A5.50
05	ALL WALLS SHALL EXTEND TO DECK IN A/I AND MED ROOMS
06	KNOX BOX, COORD. APPROVAL WITH FIRE MARSHALL FOR FINAL LOCATION
07	2 WEATHERPROOF LOUVERS WITH BIRDSCREEN MOUNTED AT 6" A.F.F. AND 6" BELOW FINISHED CEILING. REF: MEP.
08	EMERGENCY OXYGEN INLET. REF. PLUMBING
09	EQUIPMENT AND PLUMBING FIXTURES IN ADL ARE FOR THERAPY PURPOSES ONLY AND NON-FUNCTIONING (INCLUDING OVEN/STOVE, NO HOOD IS NEEDED.)
10	EYE WASH LOCATION. REF: PLUMBING DRAWINGS
11	PROVIDE FIRE-RETARDANT PLYWOOD ON ALL WALLS FROM 18" A.F.F TO A MINIMUM HEIGHT OF 7'-0". DO NOT PAINT OVER UL OR MANUFACTURER STAMPS.
12	REF. A6.01 FOR ROOM LAYOUT INFORMATION
13	DIMENSIONS DIFFER FROM TYPICAL A6.01 ROOM LAYOUT, REF: A1.02a-02b
14	REF. A6.02 FOR ROOM LAYOUT INFORMATION
15	CART WASH LOCATION. OUTSIDE HOSE BIBB REQUIRED, REF: MEP DRAWINGS.
16	EMERGENCY EQUIPMENT LOCATED HERE.
17	PRIVACY SCREENS FOR PATIENT CARE STATIONS PROVIDED BY FURNITURE VENDOR / OWNER.
18	2- TIER METAL LOCKERS WITH SLOPED TOP.
19	OWNER PROVIDED POTABLE STORAGE TANKS (S20 GALLONS TOTAL PER FBC 449.2.7.
20	PROVIDE BLOCKING IN WALL AS REQUIRED
21	DIALYSIS BOX. REF: MEP DRAWINGS
22	CONTRACTOR PROVIDED AND INSTALLED - WALL MOUNTED PORTABLE EYE WASH STATION, MASTERS # B0BPMJC32K. NO PLUMBING CONNECTIONS REQUIRED. LOCATE 48" TO CENTER A.F.F.

LEGEND - PARTIAL FLOOR PLAN



GENERAL NOTES - PARTIAL FLOOR PLAN

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
2. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF FINISH INTERIOR WALLS AND TO OUTSIDE FACE OF EXTERIOR WALLS UNLESS OTHERWISE INDICATED OR DETAILED.
3. DIMENSIONS AT DOOR AND WINDOW OPENINGS ARE TO ROUGH OPENING UNLESS OTHERWISE NOTED. MASONRY PLAN DIMENSIONS ARE NOMINAL.
4. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS, EQUIPMENT ROOMS, SHELL SPACES, AND MEP SUPPORT SPACES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
5. REFER TO LIFE SAFETY PLANS FOR RATING REQUIREMENTS OF PARTITIONS AND DOORS.
6. CAULK AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXTERIOR WINDOW FRAMES, CABINET WORK AND CASEWORK WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
7. PROVIDE BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES, EQUIPMENT AND CABINETRY.
8. ALL SINK/LAVATORY LOCATIONS TO HAVE SURFACE MOUNTED PAPER TOWEL AND SOAP DISPENSERS. COORDINATE BLOCKING.
9. ALL TOILET FIXTURE WALLS SHALL HAVE A 6" STUD U.N.O.
10. RECESSED ITEMS (GREATER THAN 16 SQ. IN.) IN RATED AND/OR SMOKE WALLS, INCLUDING ELEC. PANELS, ELEC DUCTS, MED GAS VALVE BOXES, FIRE EXTINGUISHER CABINETS, ETC. SHALL BE BACKED WITH THE 5/8" TYPE "X" GYPSUM BOARD TO MAINTAIN RATING OF THE WALL. REF: A5 SERIES FOR DETAILS.
11. PROVIDE ONE MOP/BROOM HOLDER AT EACH JANITORS CLOSET WITH THE FRP SURROUND AT UTILITY SINK.
12. ALL PARTITIONS WITH TAGS INDICATING AN STC RATING ARE REQUIRED TO TERMINATE TO DECK REGARDLESS OF HEAD CONDITION LISTED. SEE A1.02A / A1.02B & A5.70.
13. REFERENCE SPECIFICATIONS FOR INSULATION TYPES.



01 / A1.01b FLOOR PLAN- PARTIAL- LEVEL 1- AREA B
1/8" = 1'-0"

TRUE NORTH | PROJECT NORTH

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

© 2026 E4H - Environments for Health, LLC

exalt health

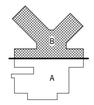
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A1.01b

FLOOR PLAN- LEVEL 1- AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 24 X 36 SHEETS ONE HALF LONG AT 12 X 18

ARCH- NOTE BY NUMBER- DIMENSION

NUMBER	NOTE
01	PROVIDE REQUIRED DOOR CLEARANCES, DIMENSIONS ARE TIGHT
02	20'-0" MINIMUM CLEAR VISTA DIMENSION PER 2023 FBC 449.3.4.1.
03	CONCEALED ROOF DRAIN LEADER LOCATION, COORDINATE WALL FRAMING TO ENSURE PIPING IS FULLY CONCEALED AND HOLD FRAMING TIGHT TO PLUMBING. REF: PLUMBING DRAWINGS.
04	FLOOR POWER AND DATA BOX. REFER TO MEP. RECESS IN SLAB AND LOCATE PER ARCHITECTURE PLANS.

WORKPOINTS LEGEND

NAME	LOCATION DESCRIPTION
WP-1	INTERSECTION OF GL D.0 & 8.0 (135 DEGREE ANGLE) 14'-10 1/8" PLAN NORTH OF GL 7.0 21'-8" PLAN EAST OF GL E.0
WP-2	INTERSECTION OF GL J.0 & 13.0 (135 DEGREE ANGLE) 14'-10 1/8" PLAN NORTH OF GL 7.0 22'-1" PLAN WEST OF GL H.0
WP-3	INTERSECTION OF GL 10.0 & 11.0 (90 DEGREE ANGLE) 5'-9 3/8" PLAN SOUTH OF GL 7.9 15'-9" PLAN EAST OF GL H.0

STC RATINGS COLOR LEGEND

STC RATING 35

STC RATING 45

STC RATING 50

STC PARTITION TAGS

35 — STC RATING

STC REQUIREMENTS

DESIGN CRITERIA FOR MINIMUM SOUND ISOLATION PERFORMANCE (STC) BETWEEN ENCLOSED ROOMS

	ADJACENCY COMBINATION			
PATIENT CARE UNITS	PATIENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	PATIENT ROOM	TO	PATIENT ROOM (WALL-SAME FLOOR)	45
	PATIENT ROOM	TO	PATIENT ROOM (FLOOR TO FLOOR)	50
	PATIENT ROOM	TO	CONSULTATION ROOM	50
	PATIENT ROOM	TO	PUBLIC SPACE	50
	PATIENT ROOM	TO	SERVICE AREA	60
	PATIENT ROOM	TO	MRI ROOM	60
DIAGNOSTI AND TREATMENT LOCATIONS	EXAMINATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	EXAMINATION ROOM	TO	EXAMINATION ROOM (WITH ELECTRONIC MASKING)	40
	EXAMINATION ROOM	TO	EXAMINATION ROOM (NO ELECTRONIC MASKING)	50
	EXAMINATION ROOM	TO	PUBLIC SPACE	50
	EXAMINATION ROOM	TO	MRI ROOM	60
	TREATMENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	TREATMENT ROOM	TO	TREATMENT ROOM	50
	OPERATING ROOM	TO	OPERATING ROOM	50
	OPERATING ROOM	TO	MRI SCANNER ROOM	60
	CONSULTATION ROOM	TO	PUBLIC SPACE	50
	CONSULTATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
PUBLIC AREAS	TOILET ROOM	TO	PUBLIC SPACE	45
	PUBLIC SPACE	TO	MRI SCANNER ROOM	50



A1.02b / 01

01 A1.02a FLOOR PLAN DIMENSION-LEVEL1-AREA A
1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

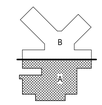
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A1.02a

FLOOR PLAN DIMENSION - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL ARCH D SIZE

ARCH- NOTE BY NUMBER- DIMENSION

NUMBER	NOTE
01	PROVIDE REQUIRED DOOR CLEARANCES, DIMENSIONS ARE TIGHT
02	20'-0" MINIMUM CLEAR VISTA DIMENSION PER 2023 FBC 449.3.4.1.
03	CONCEALED ROOF DRAIN LEADER LOCATION, COORDINATE WALL FRAMING TO ENSURE PIPING IS FULLY CONCEALED AND HOLD FRAMING TIGHT TO PLUMBING. REF: PLUMBING DRAWINGS.
04	FLOOR POWER AND DATA BOX. REFER TO MEP. RECESS IN SLAB AND LOCATE PER ARCHITECTURE PLANS.

WORKPOINTS LEGEND

NAME	LOCATION DESCRIPTION
WP-1	INTERSECTION OF GL D.0 & 8.0 (135 DEGREE ANGLE) 14'-10 1/8" PLAN NORTH OF GL 7.0 21'-8" PLAN EAST OF GL E.0
WP-2	INTERSECTION OF GL J.0 & 13.0 (135 DEGREE ANGLE) 14'-10 1/8" PLAN NORTH OF GL 7.0 22'-1" PLAN WEST OF GL H.0
WP-3	INTERSECTION OF GL 10.0 & 11.0 (90 DEGREE ANGLE) 5'-9 3/8" PLAN SOUTH OF GL 7.9 15'-9" PLAN EAST OF GL H.0

STC RATINGS COLOR LEGEND

STC RATING 35 — STC RATING 45

STC RATING 50

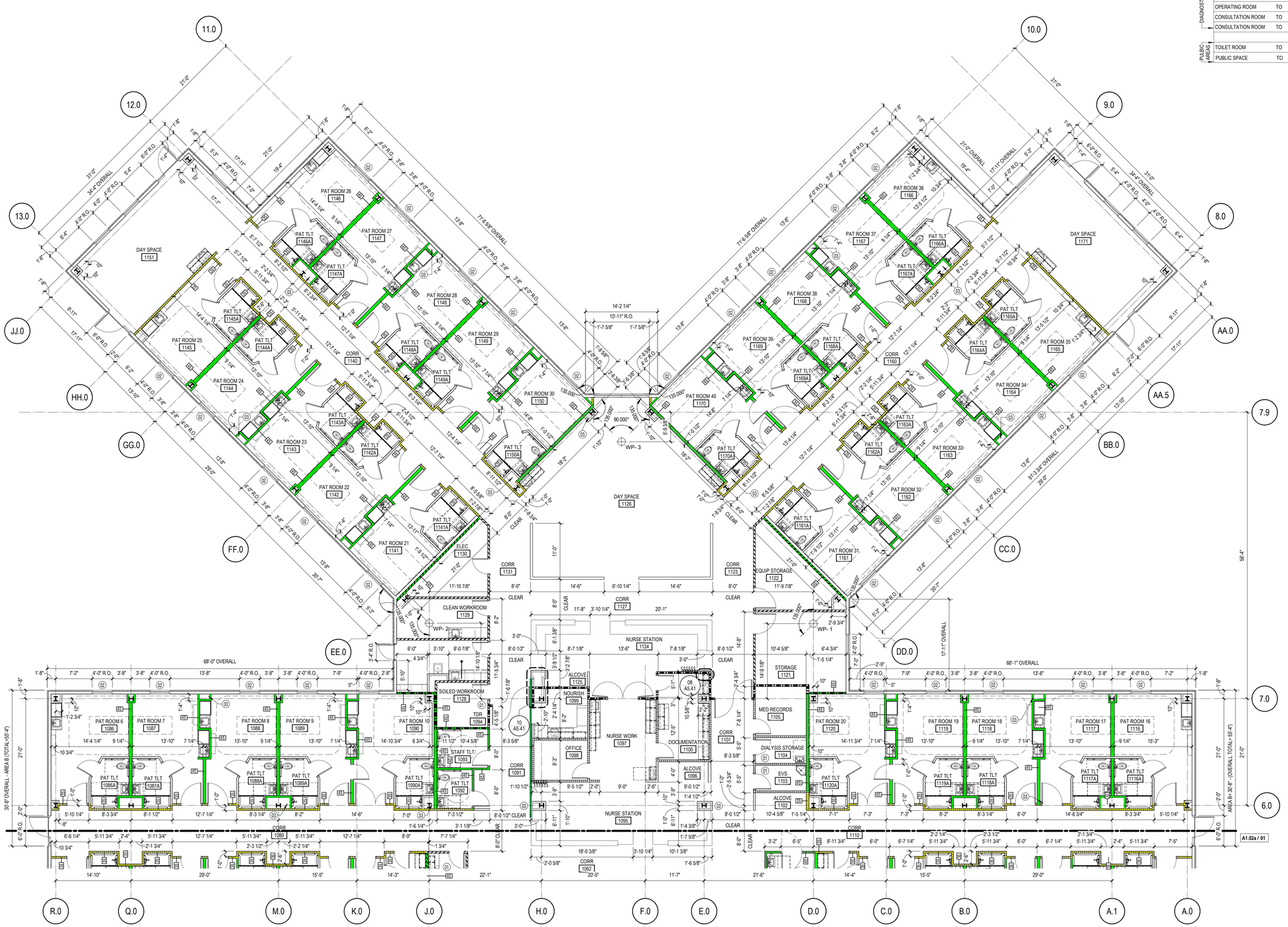
STC PARTITION TAGS

35 — STC RATING

STC REQUIREMENTS

DESIGN CRITERIA FOR MINIMUM SOUND ISOLATION PERFORMANCE (STC) BETWEEN ENCLOSED ROOMS

	ADJACENCY COMBINATION			
PATIENT CARE UNITS	PATIENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	PATIENT ROOM	TO	PATIENT ROOM (WALL-SAME FLOOR)	45
	PATIENT ROOM	TO	PATIENT ROOM (FLOOR TO FLOOR)	50
	PATIENT ROOM	TO	CONSULTATION ROOM	50
	PATIENT ROOM	TO	PUBLIC SPACE	50
	PATIENT ROOM	TO	SERVICE AREA	60
	PATIENT ROOM	TO	MRI ROOM	60
DIAGNOSTI AND TREATMENT LOCATIONS	EXAMINATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	EXAMINATION ROOM	TO	EXAMINATION ROOM (WITH ELECTRONIC MASKING)	40
	EXAMINATION ROOM	TO	EXAMINATION ROOM (NO ELECTRONIC MASKING)	50
	EXAMINATION ROOM	TO	PUBLIC SPACE	50
	EXAMINATION ROOM	TO	MRI ROOM	60
	TREATMENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	TREATMENT ROOM	TO	TREATMENT ROOM	50
	OPERATING ROOM	TO	OPERATING ROOM	50
	OPERATING ROOM	TO	MRI SCANNER ROOM	60
	CONSULTATION ROOM	TO	PUBLIC SPACE	50
	CONSULTATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
PUBLIC AREAS	TOILET ROOM	TO	PUBLIC SPACE	45
	PUBLIC SPACE	TO	MRI SCANNER ROOM	50



01 A1.02b FLOOR PLAN DIMENSION-LEVEL1-AREA B
1/8" = 1'-0"

TRUE NORTH — PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

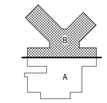
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

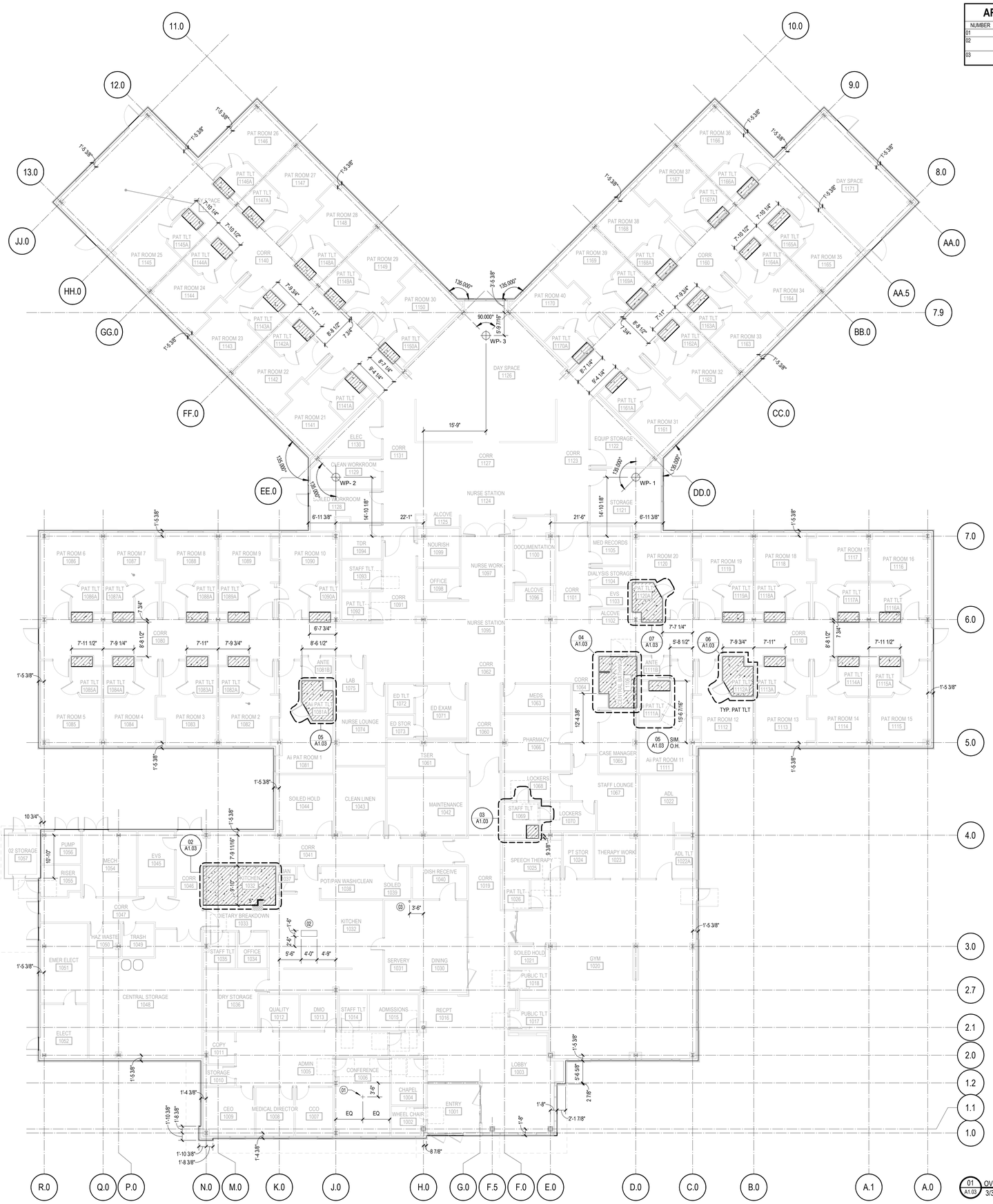
CURRENT:

SHEET TITLE AND NUMBER:

A1.02b

FLOOR PLAN DIMENSION - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE



01 OVERALL E.O.S. PLAN- LEVEL 1
A1.03 3/32" = 1'-0"

ARCH- NOTE BY NUMBER- EDGE OF SLAB PLAN

NUMBER	NOTE
01	FLOOR POWER AND DATA BOX. REFER TO MEPFT. RECESS IN SLAB AND LOCATE PER PLANS.
02	LOCATE STUB UP FOR POWER. FLOOR BOXES WITHIN FOOTPRINT UNDERNEATH HOT WELLS. REF. DIETARY AND MEPFT
03	POWER FROM ADJACENT WALL TO BE ROUGHED THROUGH ELECTRICAL CHASE INSIDE EQUIPMENT. REF. DIETARY AND MEPFT

LEGEND- EDGE OF SLAB PLAN

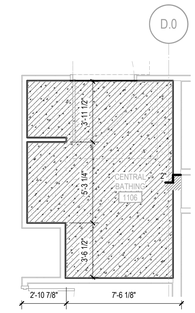
BUILDING ELEVATIONS
- 00 A-000 SIM — ENLARGED PLAN CALLOUT

BUILDING ELEMENTS
- PARTITION
- STRUCTURAL COLUMN

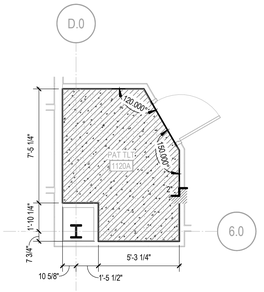
BUILDING HATCHES
- RECESSED SLAB, REF. STRUCTURE FOR DETAILS
- THICKEN SLAB, REF. STRUCTURE FOR DETAILS
- XX — ELEVATION CHANGE MARKER
- 6" HOUSEKEEPING PAD

GENERAL NOTES- EDGE OF SLAB

1. REFER TO PARTIAL PLANS FOR MORE INFORMATION. OVERALL PLANS ARE INTENDED TO PROVIDE CONTEXT FOR PARTIAL PLANS.
2. ALL RECESSED SLABS ARE TO BE 2" UNLESS OTHERWISE NOTED. THIS INCLUDES ALL PATIENT ROOM TOILETS, THE CENTRAL BATHING ROOM, AND THE STAFF TOILET WITH THE SHOWER.
3. COORDINATE FINAL DEPTH OF RECESSED SLAB AT COOLER / FREEZER WITH APPROVED SHOP DRAWINGS.
4. PROVIDE 3" NOTCH AT DOOR LOCATIONS, REF: STRUCTURAL FOR DETAILS

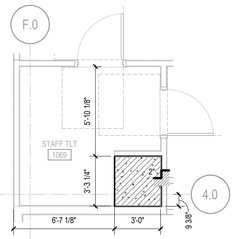


04 CENTRAL BATHING
A1.03 1/4" = 1'-0"

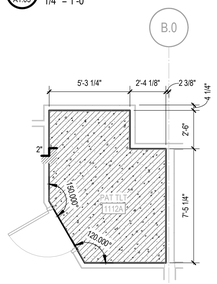


GENERAL NOTE: DIMENSIONS FROM GRIDLINES VARY, SEE FLOOR PLAN

07 NON BACK TO BACK PAT TLT RM
A1.03 1/4" = 1'-0"

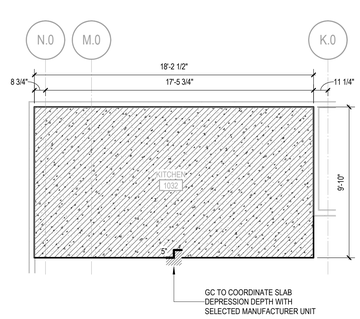


03 STAFF TLT
A1.03 1/4" = 1'-0"

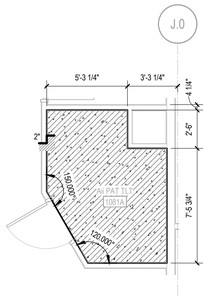


GENERAL NOTE: DIMENSIONS FROM GRIDLINES VARY, SEE FLOOR PLAN

06 TYP. PAT TLT ROOM
A1.03 1/4" = 1'-0"



02 TYP. COOLER/FREEZER AREA
A1.03 1/4" = 1'-0"



GENERAL NOTE: DIMENSIONS FROM GRIDLINES VARY, SEE FLOOR PLAN

05 TYP. ISO PAT TLT ROOM
A1.03 1/4" = 1'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

exalt health

RYAN

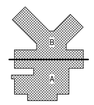
© 2026 E4H - Environments For Health, LLC

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

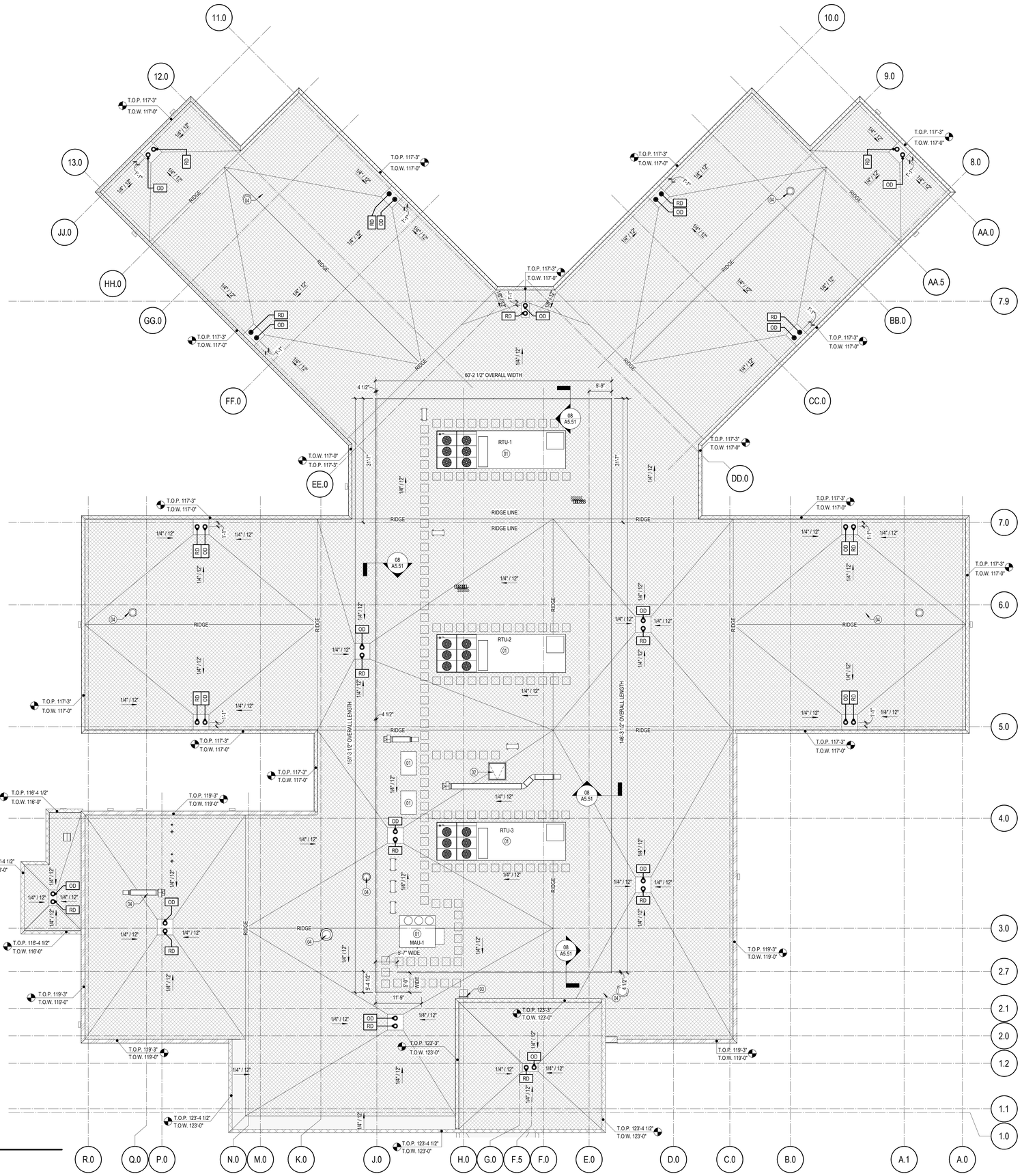
CURRENT:

SHEET TITLE AND NUMBER:

A1.03

EDGE OF SLAB PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22 X 34 SHEETS ONE HALF INCH AT 11 X 17



01 OVERALL ROOF PLAN
A2.01 3/32" = 1'-0"

LEGEND - ROOF PLAN

BUILDING ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

BUILDING SECTIONS
DETAIL NUMBER
SHEET NUMBER

WALL/ROOFING SECTION OR SECTION DETAIL
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
REFER TO DRAWING REFERENCED, FOR ITEMS ON REFERENCE SIDE OF MATCHLINE
SHEET NUMBER

BUILDING ELEMENTS
EXISTING PARTITION TO REMAIN
TEMPORARY PARTITION
PARTITION
MARKER (LEADER)
ELEVATION AT MARKER (NOTES TOP OF PARAPET)
MINIMUM REQUIRED SLOPE- THIS RIDGE OR VALLEY (PARALLEL TO ARROW HEAD)
MINIMUM REQUIRED SLOPE (PLANE OF ROOF ENCLOSING TAIL OF ARROW)
TAPERED INSULATION (CRICKET) UNDERNEATH ROOFING SYSTEM (HATCHED AREA)
ROOF WALK MATS/PADS
ROOF DRAIN (REFER TO PLUMBING DRAWINGS)
OVERFLOW DRAIN (REFER TO PLUMBING DRAWINGS)
SCUPPER AND DOWNSPOUT (REFER TO PLUMBING DRAWINGS)
SCUPPER (REFER TO PLUMBING DRAWINGS)

GENERAL NOTES - ROOF PLAN

1. ITEMS FROM MECHANICAL, PLUMBING, AND ELECTRICAL SCOPES MAY BE SHOWN FOR REFERENCE AND COORDINATION ONLY. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE.
2. ALL ROOF FLASHING TO BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.
3. ROOF MINIMUM THICKNESS OF A R-25ci.
4. ROOF CURBS NEED TO BE 48" TALL TO ACCOMMODATE TAPERED ROOF INSULATION THICKNESS AND OUTSIDE AIR INTAKE OF UNITS AT 36" MINIMUM ABOVE FINISHED ROOF.
5. ALL MECHANICAL EQUIPMENT OUTSIDE OF SCREEN WALL TO BE IMPACT RATED PER FBC 449.4.2.6. REFERENCE MECHANICAL DRAWINGS FOR NOA/PA.

ROOF PLAN NOTES BY NUMBER

NUMBER	NOTE
01	MECHANICAL EQUIPMENT, COORDINATE LOCATION WITH STRUCTURAL AND MEP DRAWINGS.
02	48X48 ROOF HATCH WITH LADDER, COORDINATE OPENING REQUIREMENTS WITH MANUF.
03	EXTERIOR LADDER. PROVIDE ADDITIONAL STEEL SUPPORT PER MANUFACTURER REQUIREMENTS. ENSURE LADDER IS WEATHER-TIGHT AT ALL EXTERIOR FINISH PENETRATIONS. REF: DETAIL 12/A5.51
04	MECHANICAL EQUIPMENT NOT PROTECTED WITHIN SCREENWALL SHALL BE IMPACT RATED PER FPA/NOA REQUIREMENTS. REF: MECHANICAL SCHEDULE.

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 893.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

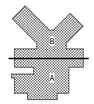
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

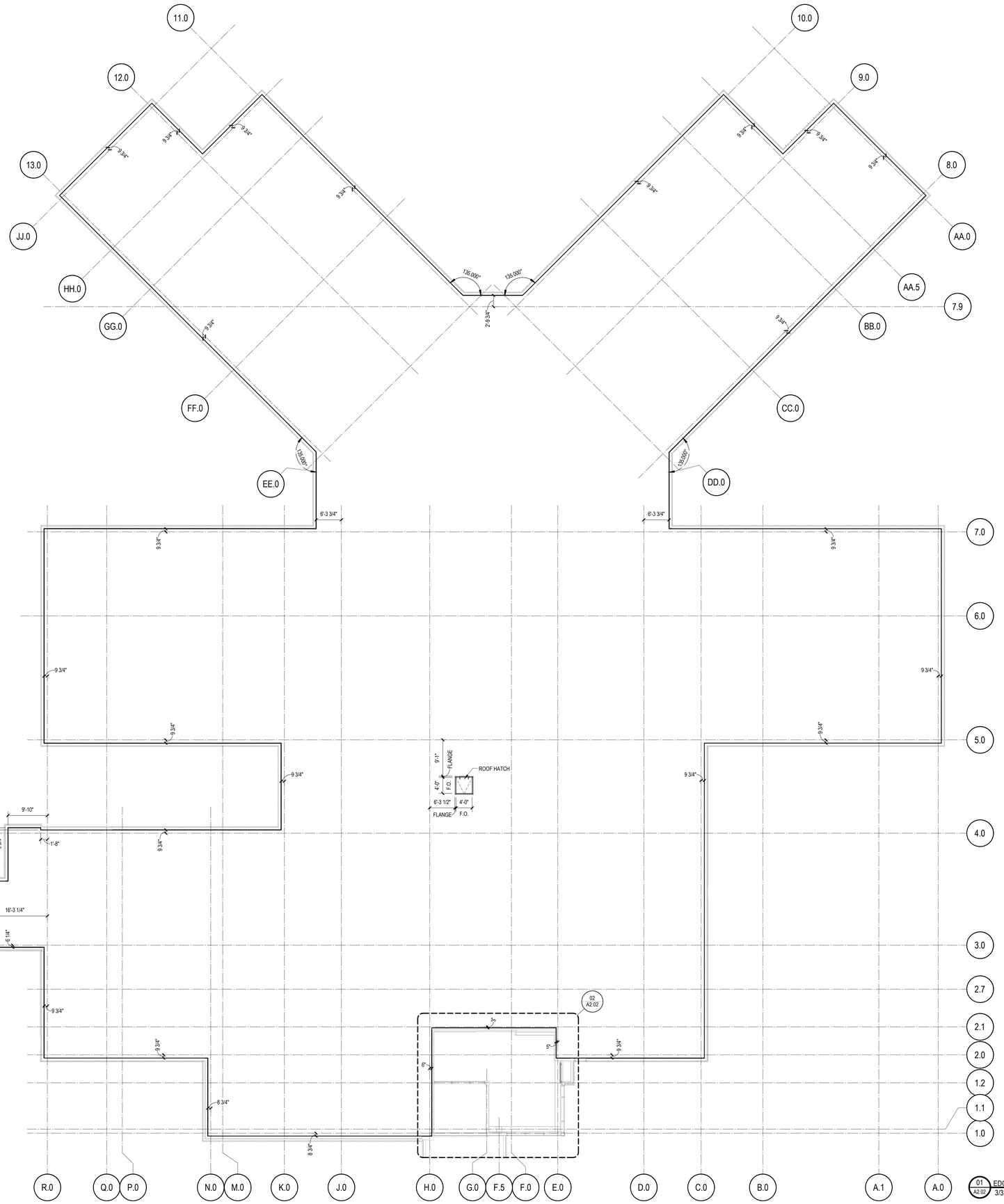
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

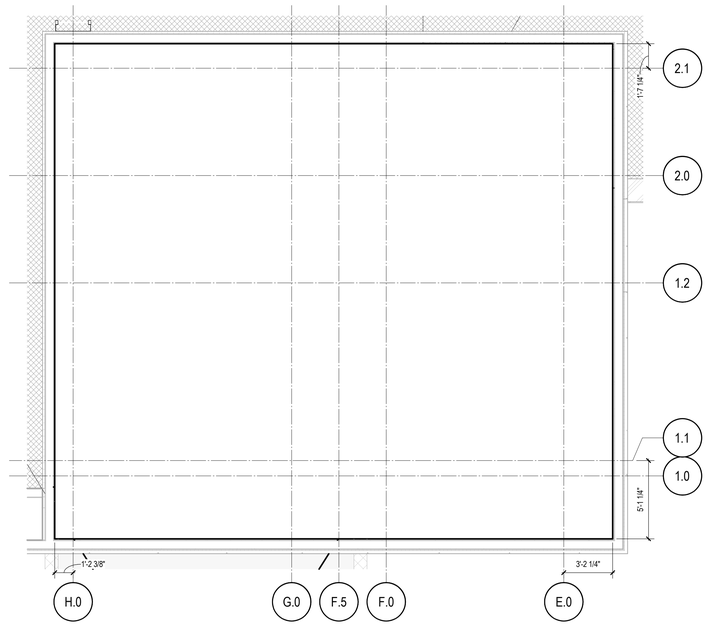
A2.01

ROOF PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

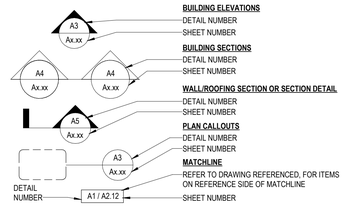


01 A2.02 EDGE OF ROOF DECK PLAN - OVERALL
3/32" = 1'-0"



02 A2.02 EDGE OF ROOF DECK PLAN - HIGH ROOF
1/4" = 1'-0"

LEGEND- ROOF PLANS



BUILDING ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

BUILDING SECTIONS
DETAIL NUMBER
SHEET NUMBER

WALL/ROOFING SECTION OR SECTION DETAIL
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
REFER TO DRAWING REFERENCED, FOR ITEMS ON REFERENCE SIDE OF MATCHLINE
SHEET NUMBER

GENERAL NOTES- ROOF PLANS

1. REFER TO A2.01 FOR ROOF SLOPES, DRAINS, SCREEN WALLS, PARAPET HEIGHTS, SECTIONS, ETC.
2. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE.

TRUE NORTH
PROJECT NORTH

e4h ENVIRONMENTS FOR HEALTH ARCHITECTURE
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

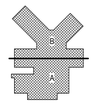
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

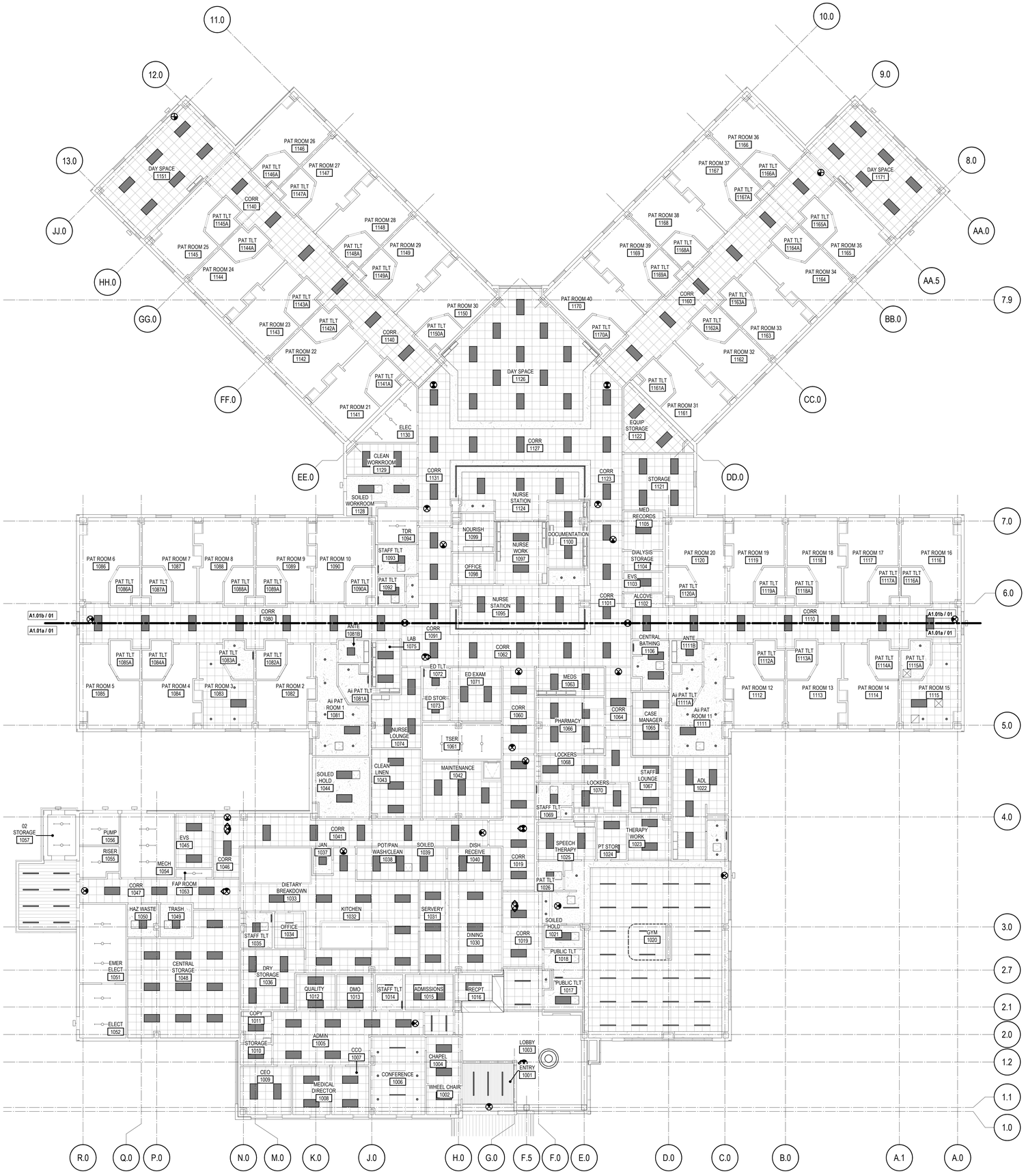
CURRENT:

SHEET TITLE AND NUMBER:

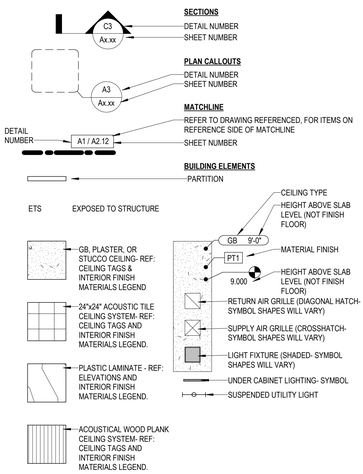
A2.02

EDGE OF DECK

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS



LEGEND- RCP'S



GENERAL NOTES- PARTIAL RCP'S

1. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THIS RCP WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, ACCESS DOORS AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCY TO THE ARCHITECT.
2. ALL CEILINGS ARE TO BE INSTALLED AT 9'-0" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
3. SPRINKLER HEADS LOCATIONS ARE NOT SHOWN ON THIS RCP. THE CONTRACTOR SHALL INSTALL SUFFICIENT HEADS IN ALL SPACES TO PROVIDE 100% COVERAGE PER NFPA 13. ALL SPRINKLER DEVICES ARE TO BE TAMPER RESISTANT.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SPEAKERS, AND EXIT SIGNAGE, ETC.
5. ALL GB CEILINGS IN TOILET/SHOWER AREAS SHALL BE MOISTURE RESISTANT. (WASH OFF)
6. PROVIDE TAMPER RESISTANT LOCKING ACCESS DOORS IN HARD CEILINGS PER MEP.
7. UNO, LIGHTING LAYOUTS ARE APPROXIMATE. REFER TO MEP DRAWINGS FOR COORDINATED RELATIONSHIPS BETWEEN DIFFUSER GRILLES, SUPPLY VENTS AND LIGHT FIXTURES. CUBICLE CURTAINS MAY NOT TRAVERSE MEP DEVICES.
8. PROVIDE HOLD - DOWN CLIPS FOR CEILING TILES WHERE APPLICABLE AND 7' FROM ANY EXTERIOR DOOR $
8. SINGULAR LIGHTS IN ROOMS TO BE CENTERED WITHIN THE ROOM, UNO
9. PROVIDE ACCESS PANELS IN ALL GYPSUM BOARD CEILING AS REQUIRED TO ACCESS MEP EQUIPMENT. COORDINATE LOCATIONS WITH MEP DRAWINGS.

01 A3.01 OVERALL RCP-LEVEL 1
3/32" = 1'-0"

TRUE NORTH

PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
888.781.8441
e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

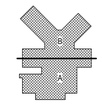
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

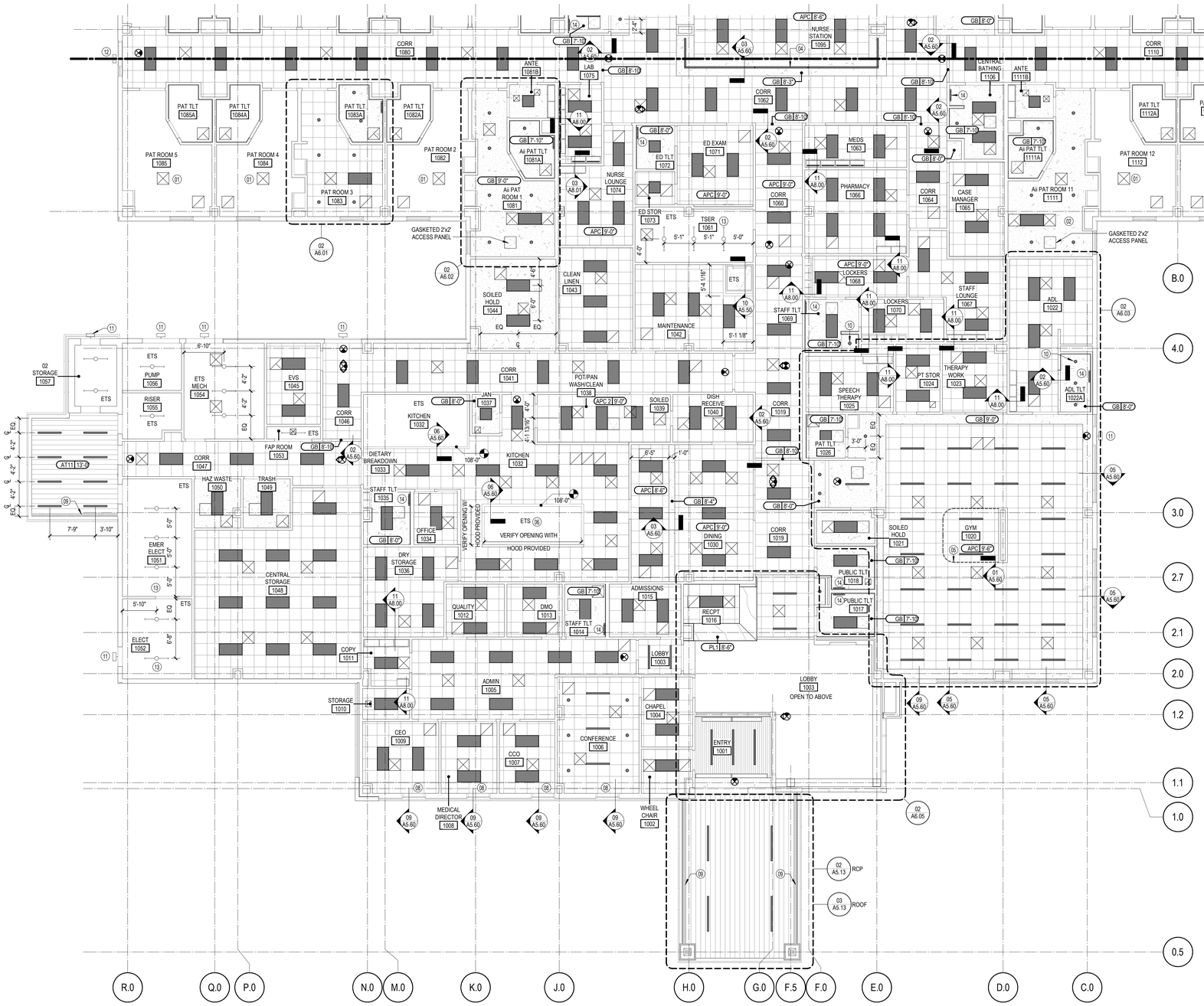
A3.01

REFLECTED CEILING PLAN- LEVEL 1

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

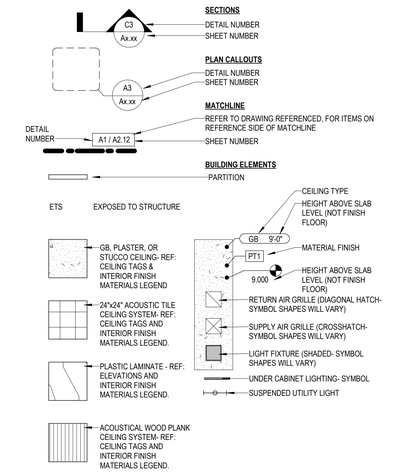
RCP NOTES BY NUMBER

NUMBER	NOTE
01	SIM. TO 02/A6.01, PAT RM 3 #1083.
02	SIM. TO 02/A6.02, Ai PAT RM 01 #1081.
03	DECORATIVE SUSPENDED LIGHT FIXTURE MOUNTED AT 19'-0" AFF, REF: MEP DRAWINGS.
04	CONTINUOUS RECESSED LINEAR LIGHTING FIXTURE, REF: MEP DRAWINGS.
05	CUBICAL CURTAIN TRACK, REF: A5.60.
06	HOOD LOCATION, REF. DIETARY AND MEP. G.C. TO VERIFY HOOD SIZE W/ MANUF.
07	PROVIDE MOTORIZED ROLLER SHADE FOR WINDOW. REF: ID SHEETS
08	PROVIDE MANUAL ROLLER SHADE AT THE WINDOW. REF: ID SHEETS
09	CONTINUOUS PERFORATED SOFFIT VENT PER SOFFIT PANEL MANUF.
10	CENTER LIGHT OVER SHOWER AREA
11	CENTER LIGHT OVER DOOR
12	CENTER LIGHT OVER SYSTEM
13	ANY ELECTRICAL/PLUMBING/MECHANICAL EQUIPMENT OR FIXTURES THAT ARE NOT DIRECTLY RELATED TO THE SUPPORT OF THE ROOM SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE ROOM.
14	DECORATIVE WALL SCONCE LIGHTING FIXTURE. MOUNT HORIZONTALLY. REF: MEP DRAWINGS.



01 A3.01a RCP- PARTIAL- LEVEL 1 - AREA A
1/8" = 1'-0"

LEGEND- RCP'S



GENERAL NOTES- PARTIAL RCP'S

1. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THIS RCP WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, ACCESS DOORS AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCY TO THE ARCHITECT.
2. ALL CEILINGS ARE TO BE INSTALLED AT 9'-0" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
3. SPRINKLER HEADS LOCATIONS ARE NOT SHOWN ON THIS RCP. THE CONTRACTOR SHALL INSTALL SUFFICIENT HEADS IN ALL SPACES TO PROVIDE 100% COVERAGE PER NFPA 13. ALL SPRINKLER DEVICES ARE TO BE TAMPER RESISTANT.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SPEAKERS, AND EXIT SIGNAGE, ETC.
5. ALL GB CEILINGS IN TOILET/SHOWER AREAS SHALL BE MOISTURE RESISTANT. (WASH OFF)
6. PROVIDE TAMPER RESISTANT LOCKING ACCESS DOORS IN HARD CEILINGS PER MEP.
7. UNO, LIGHTING LAYOUTS ARE APPROXIMATE. REFER TO MEP DRAWINGS FOR COORDINATED RELATIONSHIPS BETWEEN DIFFUSER GRILLES, SUPPLY VENTS AND LIGHT FIXTURES. CUBICLE CURTAINS MAY NOT TRAVERSE MEP DEVICES.
8. PROVIDE HOLD - DOWN CLIPS FOR CEILING TILES WHERE APPLICABLE AND 7' FROM ANY EXTERIOR DOOR.$
8. SINGULAR LIGHTS IN ROOMS TO BE CENTERED WITHIN THE ROOM, UNO
9. PROVIDE ACCESS PANELS IN ALL GYPSUM BOARD CEILING AS REQUIRED TO ACCESS MEP EQUIPMENT. COORDINATE LOCATIONS WITH MEP DRAWINGS.

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

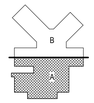
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

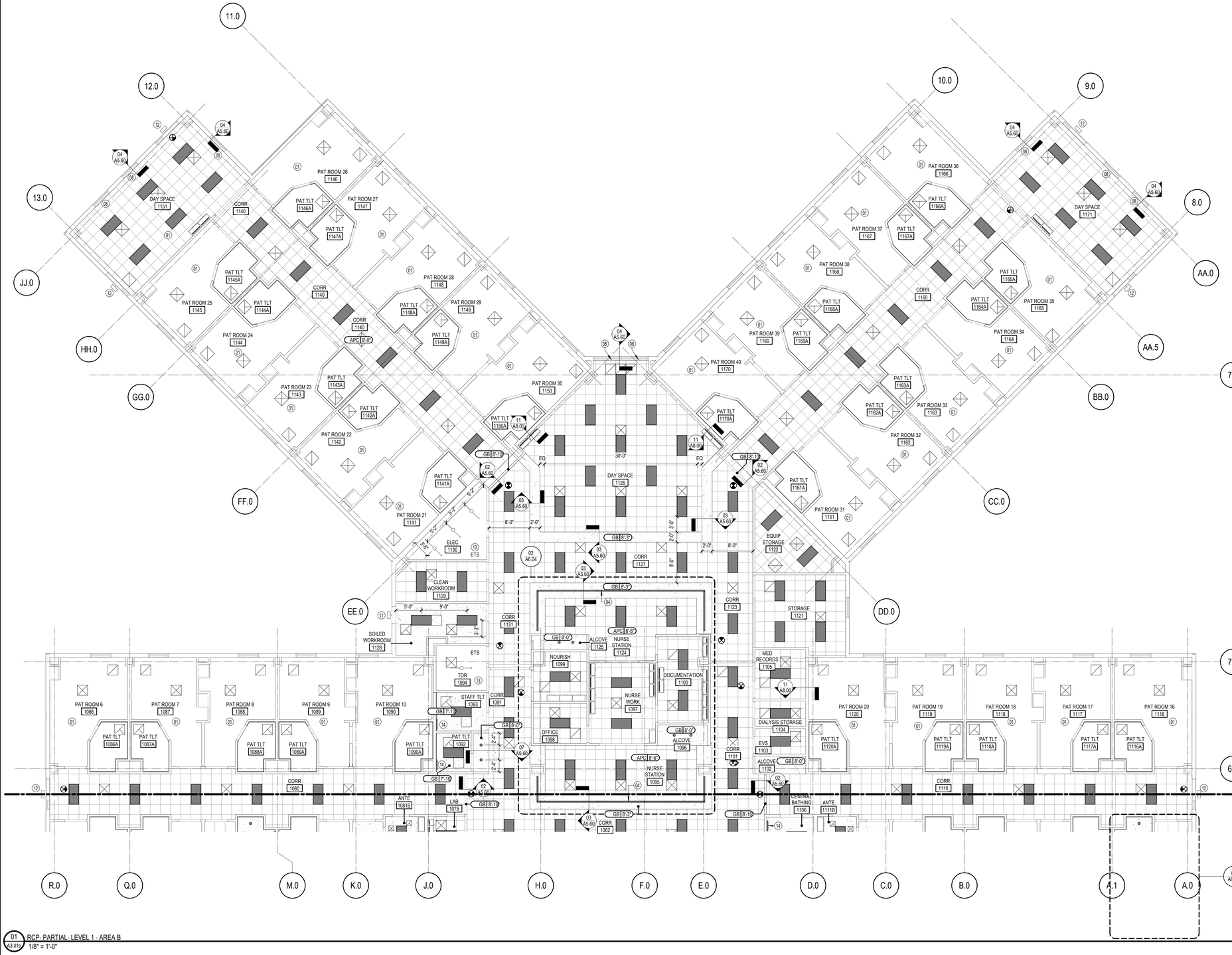
A3.01a

REFLECTED CEILING PLAN- LEVEL 1- AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ONE INCH LONG AT 11" X 17" SHEETS

RCP NOTES BY NUMBER

NUMBER	NOTE
01	SIM. TO 02/A6.01, PAT RM 3 #1083.
02	SIM. TO 02/A6.02, At PAT RM 01 #1081.
03	DECORATIVE SUSPENDED LIGHT FIXTURE MOUNTED AT 19'-0" AFF, REF: MEP DRAWINGS.
04	CONTINUOUS RECESSED LINEAR LIGHTING FIXTURE, REF: MEP DRAWINGS.
05	CUBICAL CURTAIN TRACK, REF: A5.60.
06	HOOD LOCATION, REF. DIETARY AND MEP. G.C. TO VERIFY HOOD SIZE W/ MANUF.
07	PROVIDE MOTORIZED ROLLER SHADE FOR WINDOW. REF: ID SHEETS
08	PROVIDE MANUAL ROLLER SHADE AT THE WINDOW. REF: ID SHEETS
09	CONTINUOUS PERFORATED SOFFIT VENT PER SOFFIT PANEL MANUF.
10	CENTER LIGHT OVER SHOWER AREA
11	CENTER LIGHT OVER DOOR
12	CENTER LIGHT OVER SYSTEM
13	ANY ELECTRICAL/PLUMBING/MECHANICAL EQUIPMENT OR FIXTURES THAT ARE NOT DIRECTLY RELATED TO THE SUPPORT OF THE ROOM SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE ROOM.
14	DECORATIVE WALL SCONCE LIGHTING FIXTURE. MOUNT HORIZONTALLY. REF: MEP DRAWINGS.



01 A3.01b RCP- PARTIAL- LEVEL 1 - AREA B
1/8" = 1'-0"

LEGEND- RCP'S

GENERAL NOTES- PARTIAL RCP'S

1. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THIS RCP WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN, ACCESS DOORS AND EXHAUST PLANS. THE CONTRACTOR SHALL REPORT ANY OMISSIONS OR INCONSISTENCY TO THE ARCHITECT.
2. ALL CEILINGS ARE TO BE INSTALLED AT 9'-0" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED.
3. SPRINKLER HEADS LOCATIONS ARE NOT SHOWN ON THIS RCP. THE CONTRACTOR SHALL INSTALL SUFFICIENT HEADS IN ALL SPACES TO PROVIDE 100% COVERAGE PER NFPA 13. ALL SPRINKLER DEVICES ARE TO BE TAMPER RESISTANT.
4. SEE ELECTRICAL DRAWINGS FOR THE LOCATIONS OF CEILING MOUNTED SPEAKERS, AND EXIT SIGNAGE, ETC.
5. ALL GB CEILINGS IN TOILET/SHOWER AREAS SHALL BE MOISTURE RESISTANT. (WASH OFF)
6. PROVIDE TAMPER RESISTANT LOCKING ACCESS DOORS IN HARD CEILINGS PER MEP.
7. UNO, LIGHTING LAYOUTS ARE APPROXIMATE. REFER TO MEP DRAWINGS FOR COORDINATED RELATIONSHIPS BETWEEN DIFFUSER GRILLES, SUPPLY VENTS AND LIGHT FIXTURES. CUBICLE CURTAINS MAY NOT TRAVERSE MEP DEVICES.
8. PROVIDE HOLD - DOWN CLIPS FOR CEILING TILES WHERE APPLICABLE AND 7' FROM ANY EXTERIOR DOOR.$
8. SINGULAR LIGHTS IN ROOMS TO BE CENTERED WITHIN THE ROOM, UNO
9. PROVIDE ACCESS PANELS IN ALL GYPSUM BOARD CEILING AS REQUIRED TO ACCESS MEP EQUIPMENT. COORDINATE LOCATIONS WITH MEP DRAWINGS.

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

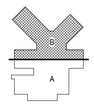
EXALT HEALTH 40 BED REHAB HOSPITAL - PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A3.01b

REFLECTED CEILING PLAN- LEVEL 1- AREA B

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED VANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A5.10

WALL SECTIONS

exalt health

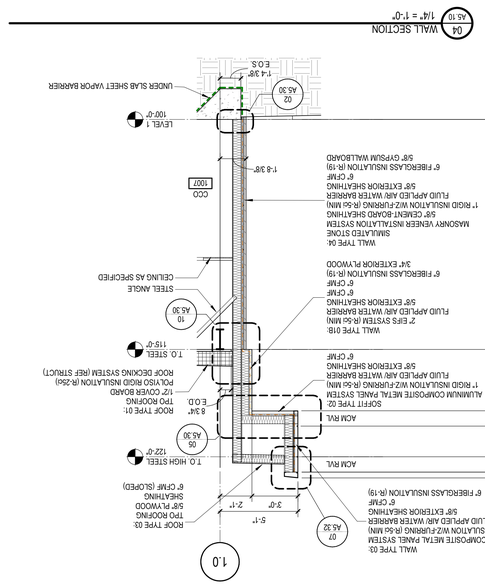
RYAN

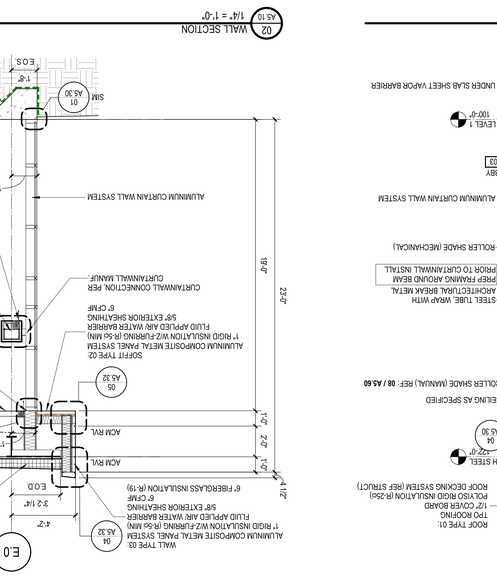
e4h ENVIRONMENTS FOR HEALTH ARCHITECTURE

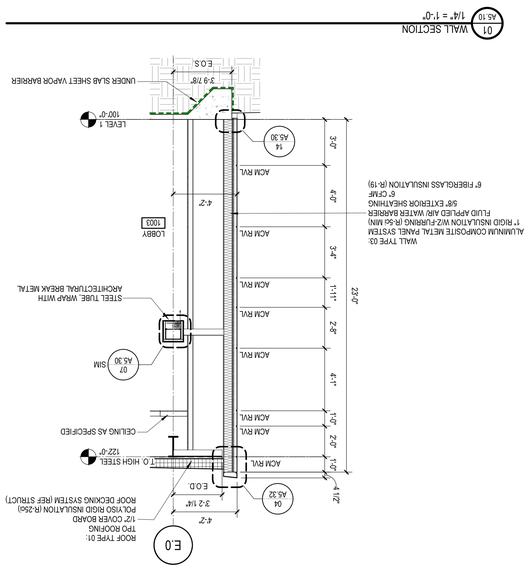
888.781.9441 817.226.1937 801 Cherry St. Ste. 500 Fort Worth, TX 76102

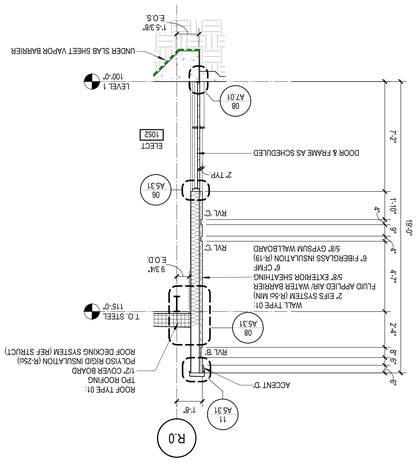
© 2026 E4H • Environments For Health, LLC e4harchitecture.com

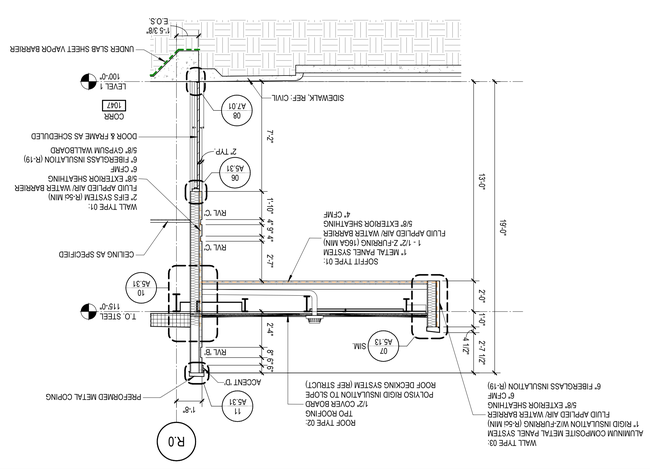
THE LINE WORK MEANING IS EXACTLY ORIGINAL AND DOES NOT SCALE

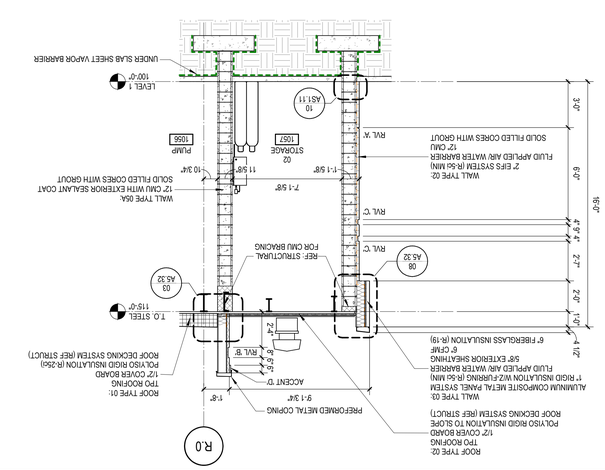




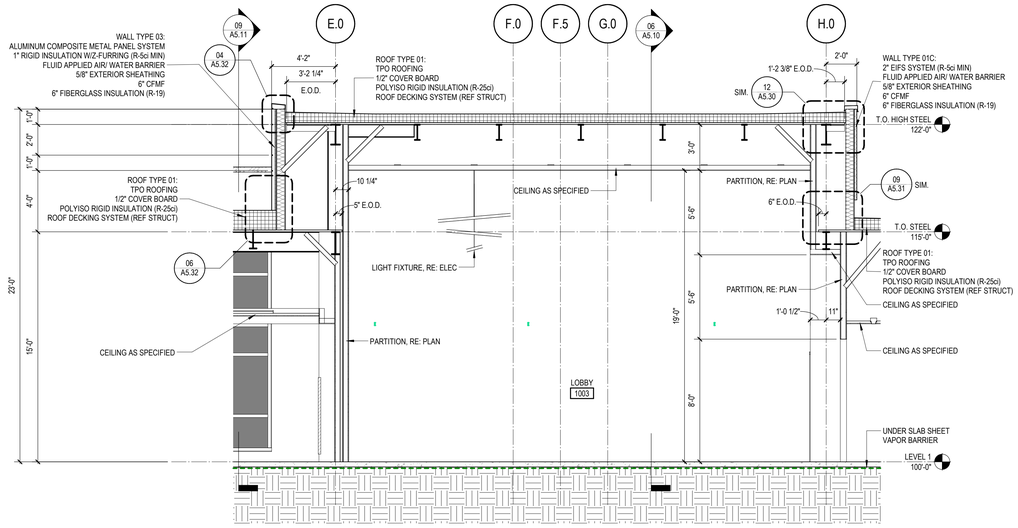




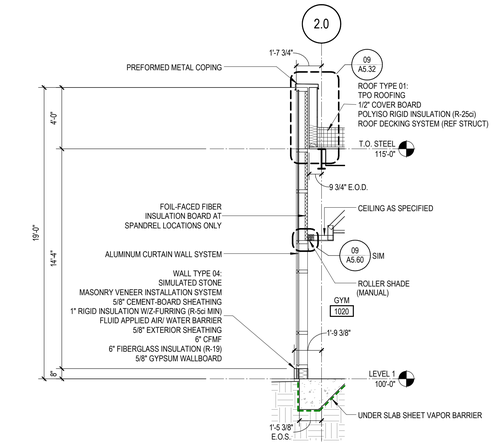




THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS



10 A5.11 WALL SECTION
1/4" = 1'-0"



09 A5.11 WALL SECTION
1/4" = 1'-0"

08 A5.11 WALL SECTION
1/4" = 1'-0"

07 A5.11 WALL SECTION
1/4" = 1'-0"

06 A5.11 WALL SECTION
1/4" = 1'-0"

05 A5.11 WALL SECTION
1/4" = 1'-0"

04 A5.11 WALL SECTION
1/4" = 1'-0"

03 A5.11 WALL SECTION
1/4" = 1'-0"

02 A5.11 WALL SECTION
1/4" = 1'-0"

01 A5.11 WALL SECTION
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
869.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

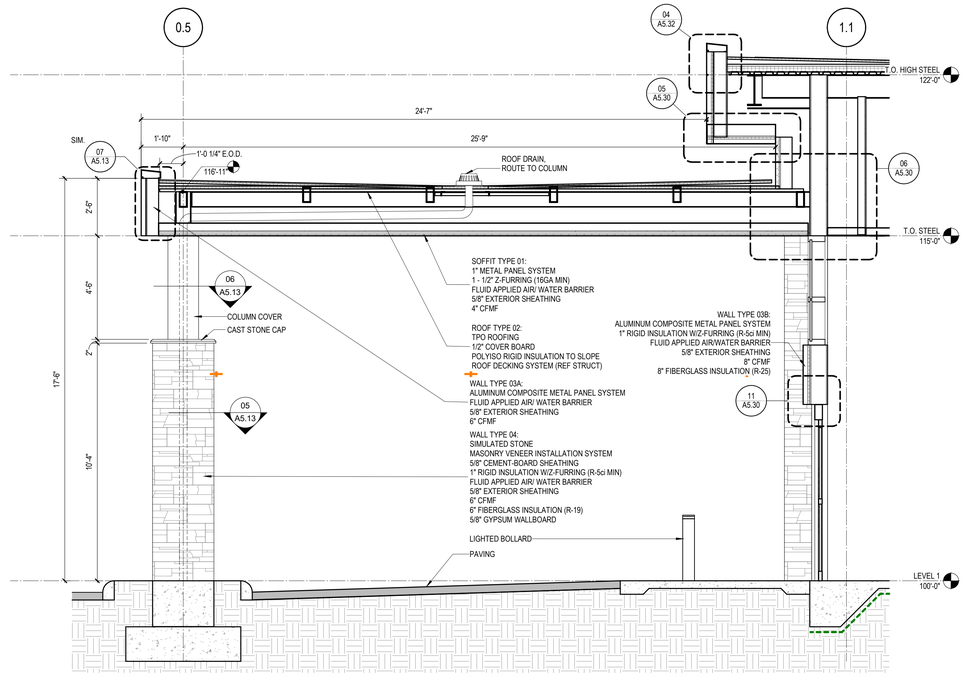
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

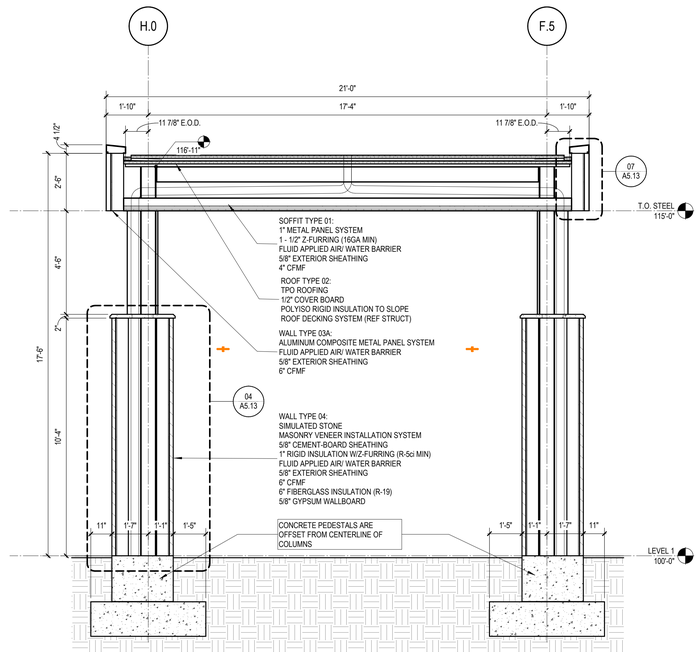
A5.11

WALL SECTIONS

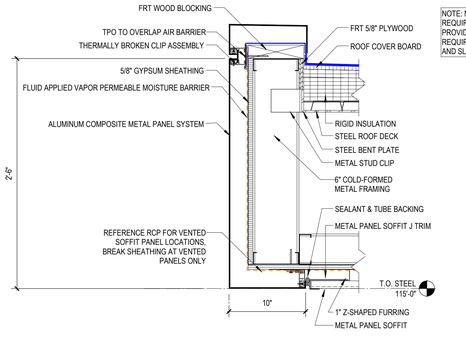
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCHITECTURAL SHEETS



09 A5.13 CANOPY SECTION
3/8" = 1'-0"

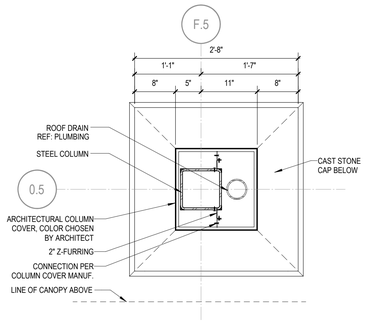


08 A5.13 CANOPY SECTION
3/8" = 1'-0"

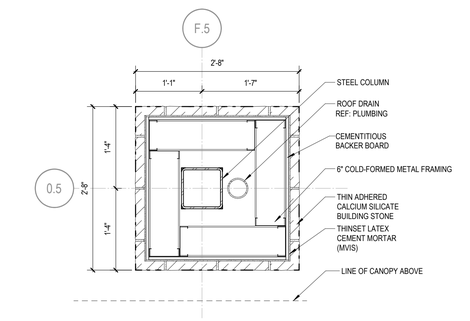


NOTE: NO MIN. R-VALUE REQUIRED AT CANOPY ROOF. PROVIDE MIN. INSULATION AS REQUIRED TO MEET FPA/NOA AND SLOPE TO ROOF DRAINS.

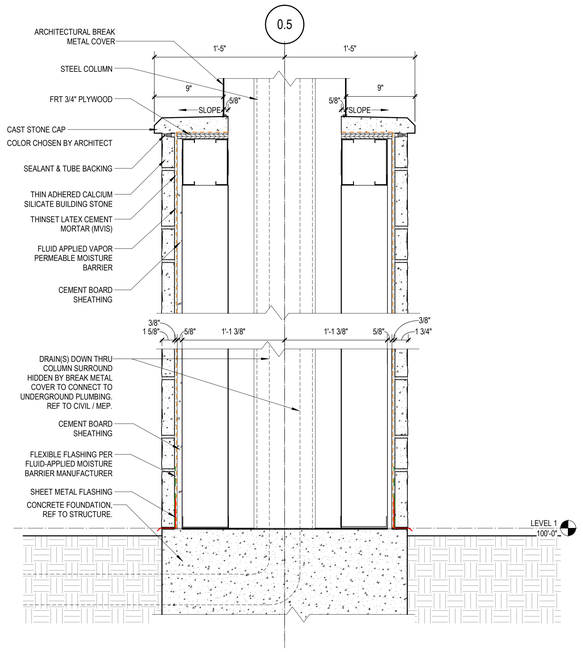
07 A5.13 ENTRY CANOPY SECTION DETAIL
1 1/2" = 1'-0"



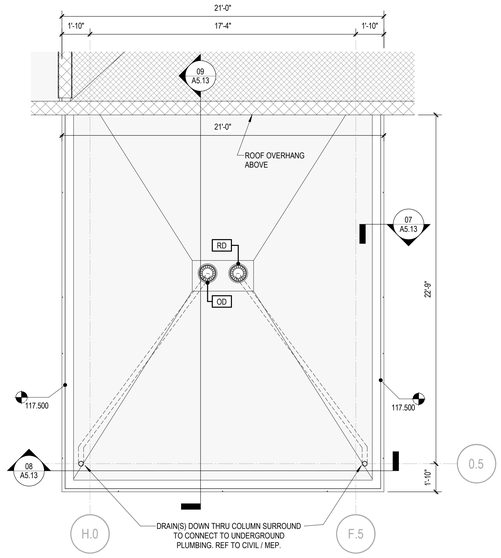
06 A5.13 PLAN DETAIL AT CANOPY COLUMN - HIGH
1" = 1'-0"



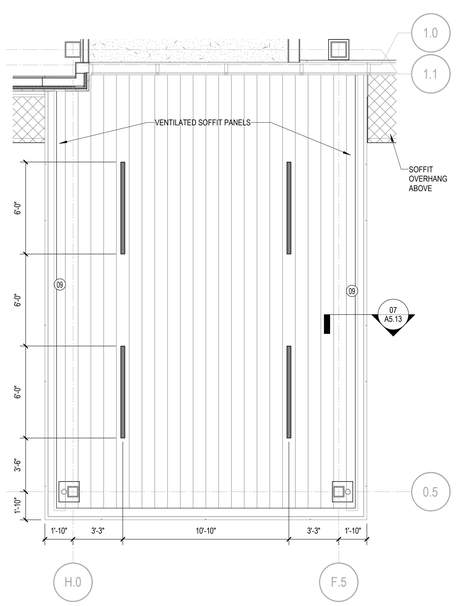
05 A5.13 PLAN DETAIL AT CANOPY COLUMN - LOW
1" = 1'-0"



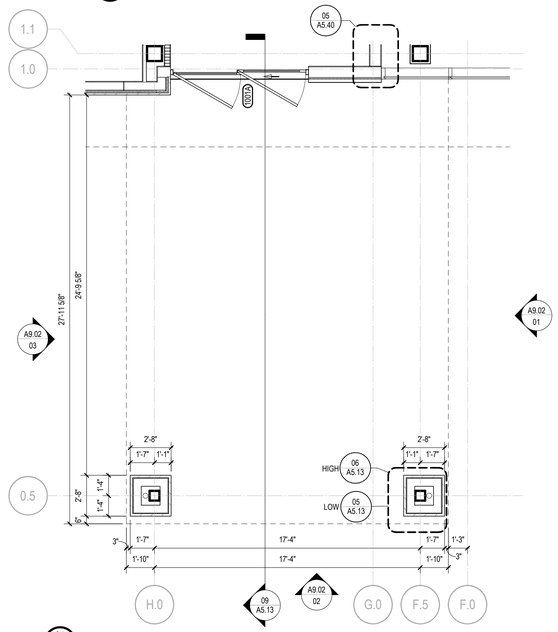
04 A5.13 WALL SECTION
1 1/2" = 1'-0"



03 A5.13 ROOF PLAN - MAIN CANOPY
1/4" = 1'-0"



02 A5.13 REFLECTED CEILING PLAN - MAIN CANOPY
1/4" = 1'-0"



01 A5.13 ENLARGED FLOOR PLAN- MAIN CANOPY
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
e4harchitecture.com
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
883.781.8441

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

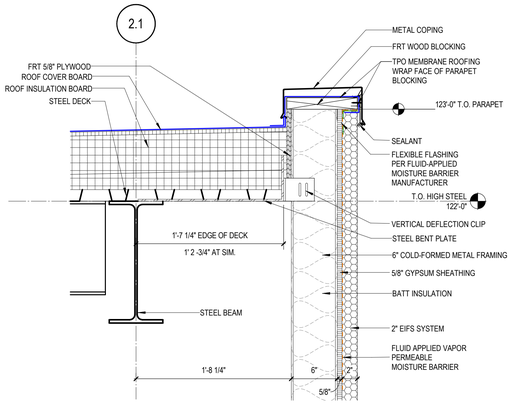
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.13

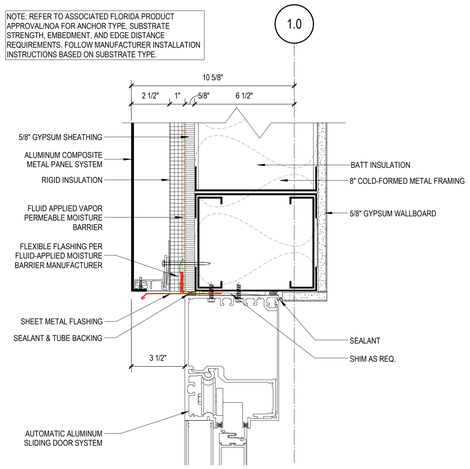
MAIN CANOPY PLANS AND SECTIONS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ALL SHEETS ORIGINALLY PLOTTED

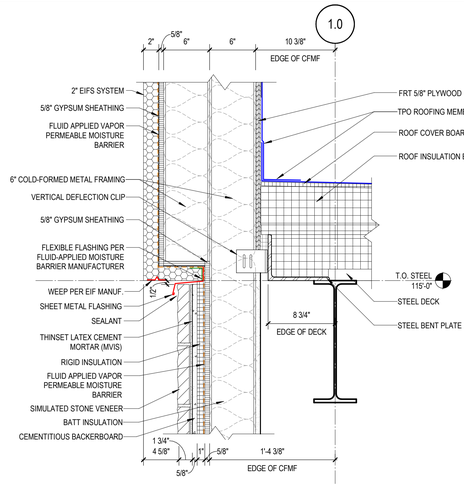


12 A5.30 COPING AT EIFS PARAPET
1 1/2" = 1'-0"

NOTE: REFER TO ASSOCIATED FLORIDA PRODUCT APPROVAL/NOA FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, AND EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS BASED ON SUBSTRATE TYPE.

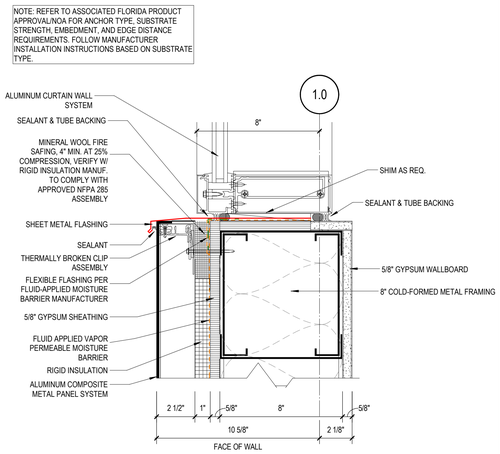


11 A5.30 ENLARGED SECTION DETAIL - AUTO DOOR HEAD AT ACM
3" = 1'-0"

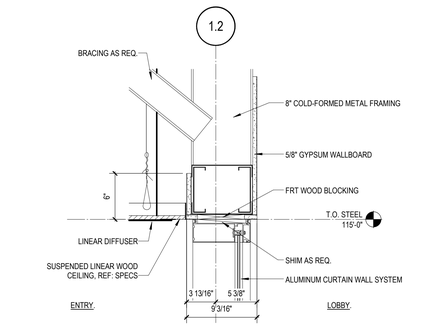


10 A5.30 ENLARGED SECTION DETAIL - EIFS/ STONE TRANSITION AT ROOF
1 1/2" = 1'-0"

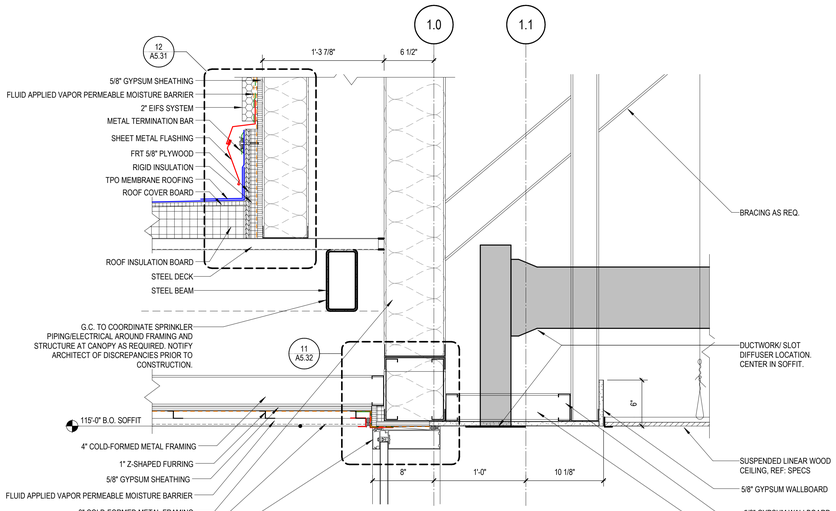
NOTE: REFER TO ASSOCIATED FLORIDA PRODUCT APPROVAL/NOA FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, AND EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS BASED ON SUBSTRATE TYPE.



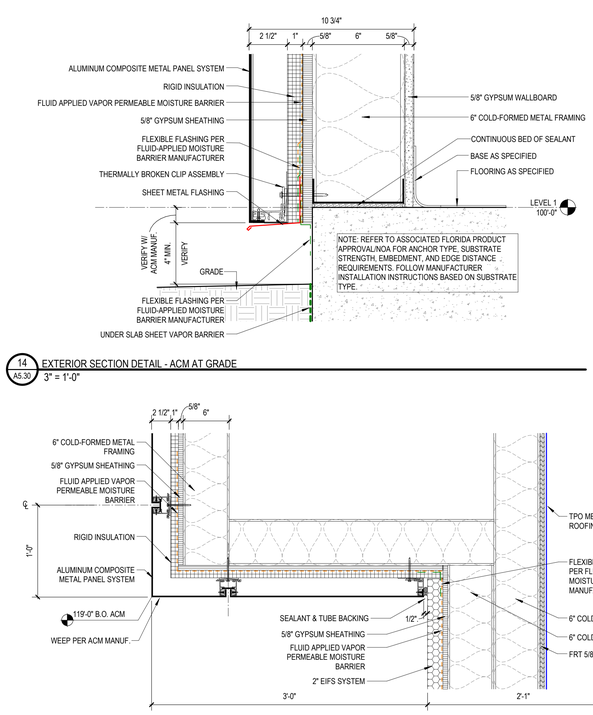
09 A5.30 ENLARGED SECTION DETAIL - CURTAINWALL SILL AT ACM
3" = 1'-0"



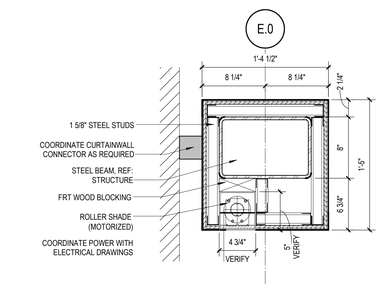
08 A5.30 ENLARGED SECTION DETAIL - HEADER AT ENTRY VESTIBULE
1 1/2" = 1'-0"



06 A5.30 ENLARGED SECTION DETAIL - MAIN CANOPY CONNECTION
1 1/2" = 1'-0"

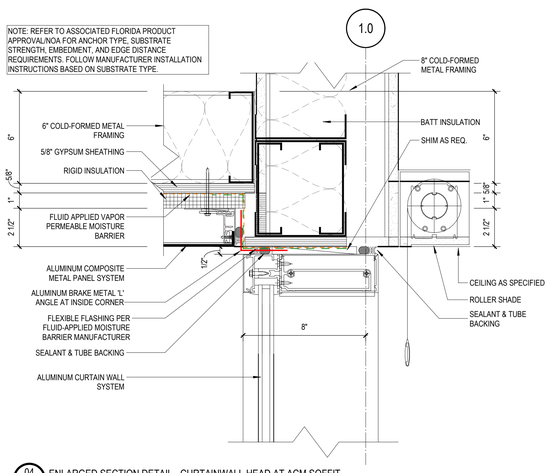


14 A5.30 EXTERIOR SECTION DETAIL - ACM AT GRADE
3" = 1'-0"

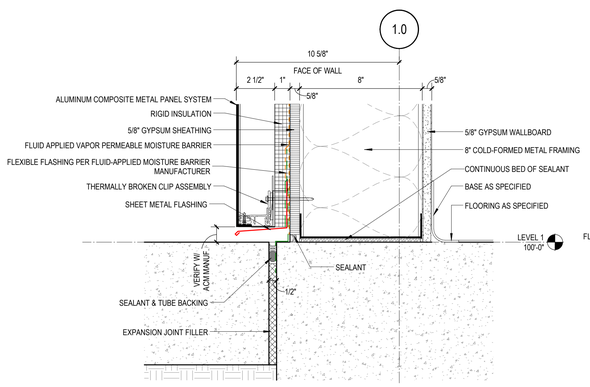


07 A5.30 ENLARGED SECTION DETAIL - STEEL BEAM AT LOBBY
1 1/2" = 1'-0"

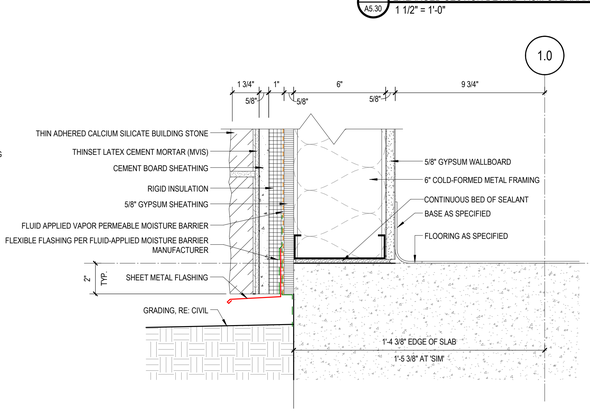
05 A5.30 ENLARGED SECTION DETAIL - ACM OVERHANG
1 1/2" = 1'-0"



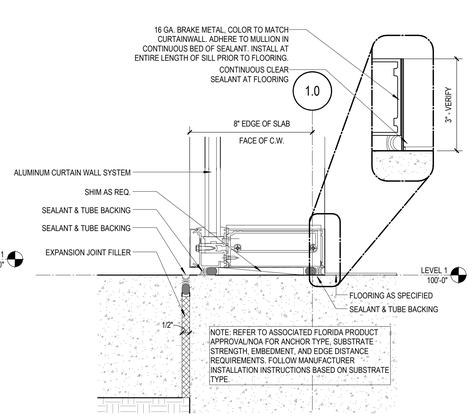
04 A5.30 ENLARGED SECTION DETAIL - CURTAINWALL HEAD AT ACM SOFFIT
3" = 1'-0"



03 A5.30 EXTERIOR SECTION DETAIL - ACM AT SIDEWALK
3" = 1'-0"



02 A5.30 ENLARGED SECTION DETAIL - STONE BASE AT GRADE
3" = 1'-0"



01 A5.30 ENLARGED SECTION DETAIL - CURTAINWALL SILL AT SLAB EDGE
3" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

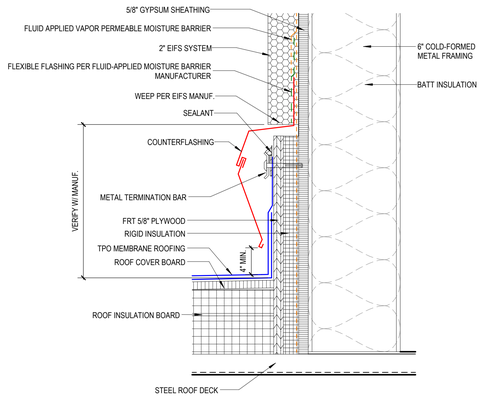
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

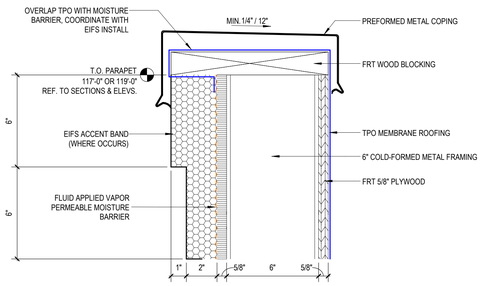
A5.30

EXTERIOR SECTION DETAILS

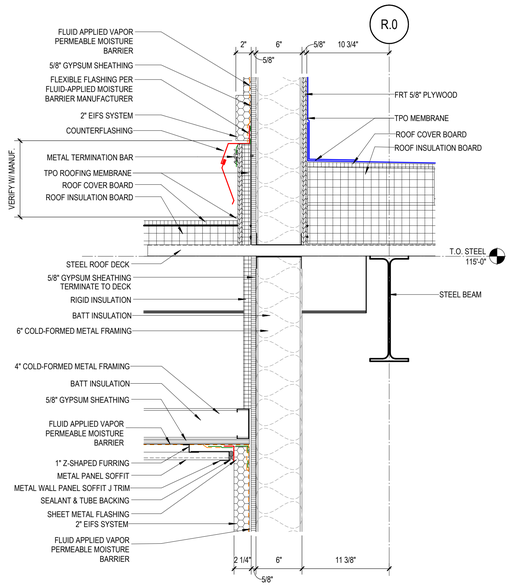
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SIZE



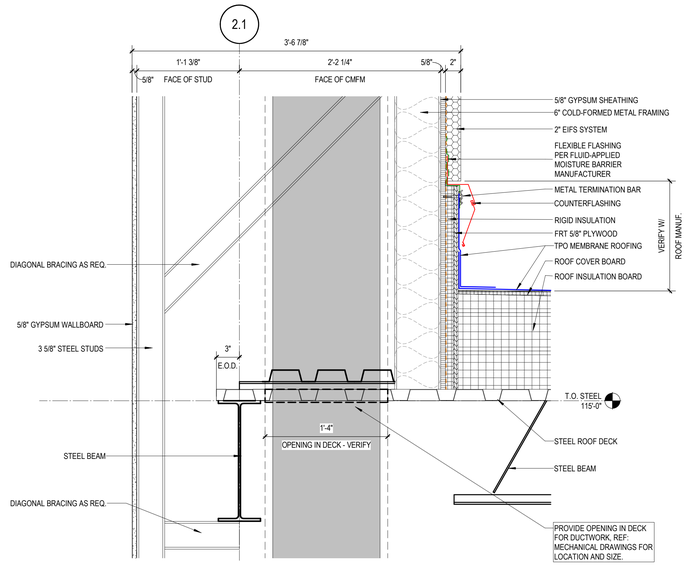
12 A5.31 ENLARGED SECTION DETAIL - EIFS ROOF TERMINATION
3" = 1'-0"



11 A5.31 ENLARGED SECTION DETAIL - EIFS PARAPET COPING
3" = 1'-0"



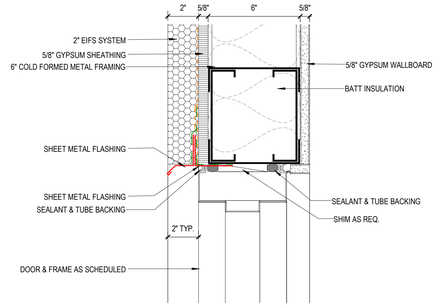
10 A5.31 ENLARGED SECTION DETAIL - EIFS SOFFIT AND ROOF TRANSITION
1 1/2" = 1'-0"



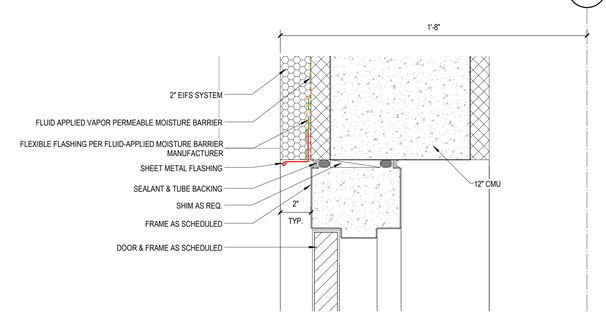
09 A5.31 ENLARGED SECTION DETAIL - BASE AT HIGH ROOF
1 1/2" = 1'-0"

08 A5.31 ENLARGED SECTION DETAIL - EIFS PARAPET
1 1/2" = 1'-0"

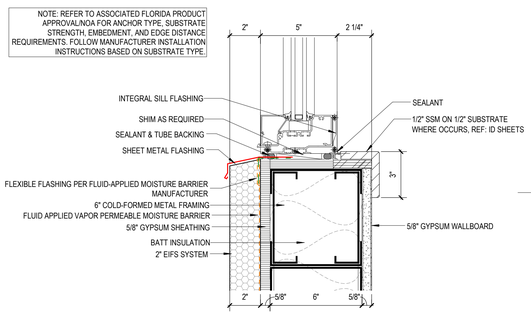
07 A5.31 ENLARGED SECTION DETAIL - STONE & EIFS TRANSITION
3" = 1'-0"



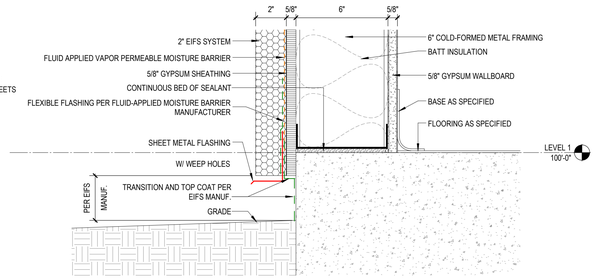
06 A5.31 ENLARGED SECTION DETAIL - HM DOOR HEAD AT EIFS
3" = 1'-0"



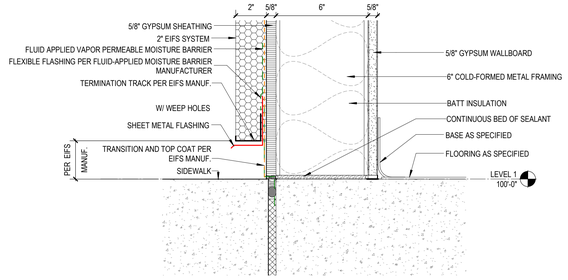
05 A5.31 ENLARGED SECTION DETAIL - HM HEAD AT CMU
3" = 1'-0"



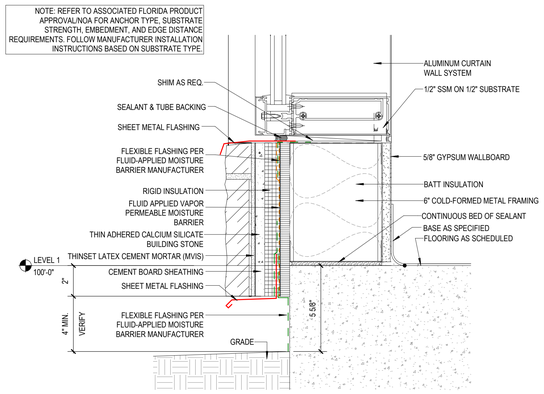
04 A5.31 ENLARGED SECTION DETAIL - STOREFRONT SILL AT EIFS
3" = 1'-0"



03 A5.31 ENLARGED SECTION DETAIL - EIFS BASE AT GRADE
3" = 1'-0"



02 A5.31 ENLARGED SECTION DETAIL - EIFS BASE AT SIDEWALK
3" = 1'-0"



01 A5.31 ENLARGED SECTION DETAIL - CURTAINWALL SILL AT STONE
3" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

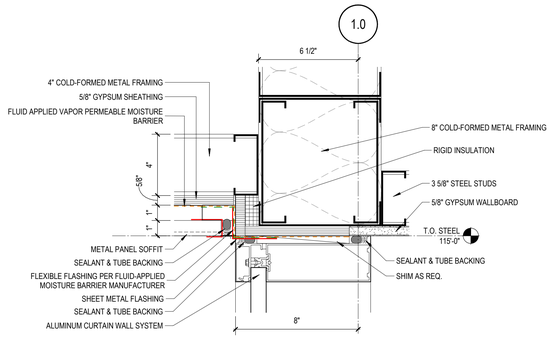
CURRENT:

SHEET TITLE AND NUMBER:

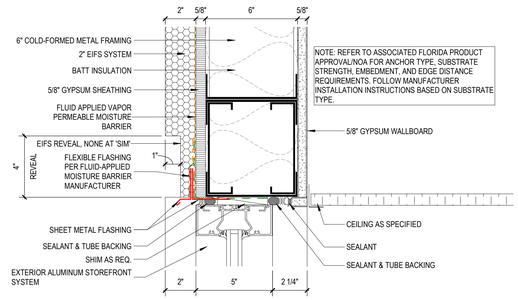
A5.31

EXTERIOR SECTION DETAILS

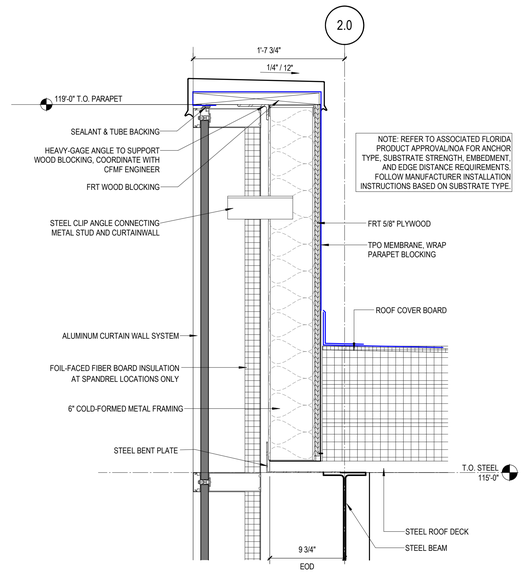
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH(25.4MM) ON ORIGINAL ARCH D SHEETS



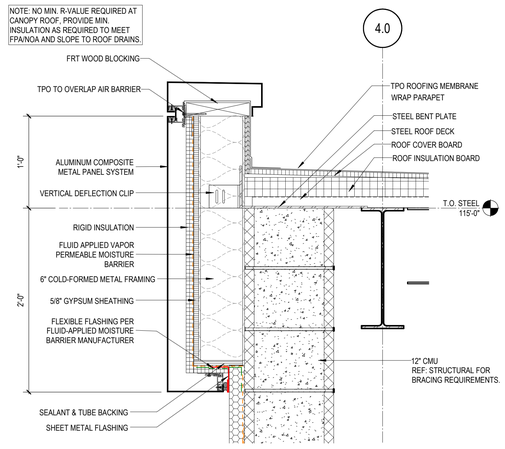
11 A5.32 ENLARGED SECTION DETAIL - CURTAINWALL HEAD AT CANOPY
3" = 1'-0"



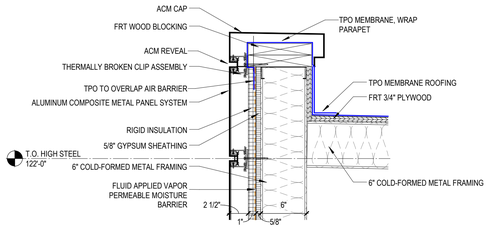
10 A5.32 ENLARGED SECTION DETAIL - STOREFRONT HEAD AT EIFS
3" = 1'-0"



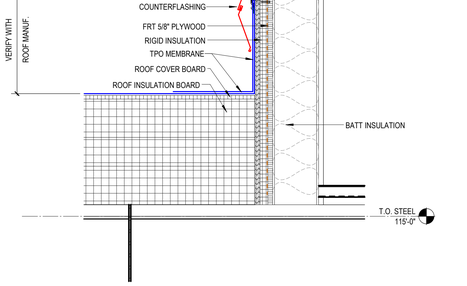
09 A5.32 ENLARGED SECTION DETAIL - CURTAINWALL PARAPET
1 1/2" = 1'-0"



08 A5.32 ENLARGED SECTION DETAIL - ACM PARAPET AT BULK 02
1 1/2" = 1'-0"



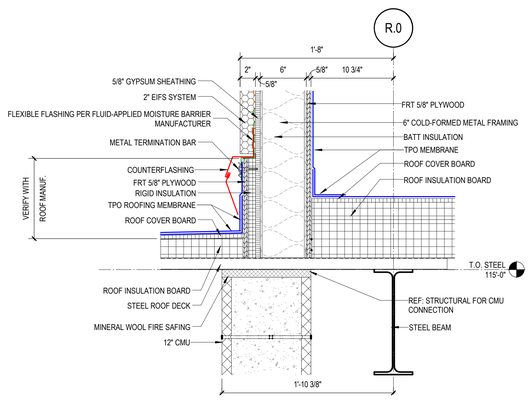
07 A5.32 ENLARGED SECTION DETAIL - ACM PARAPET AT CFMF
1 1/2" = 1'-0"



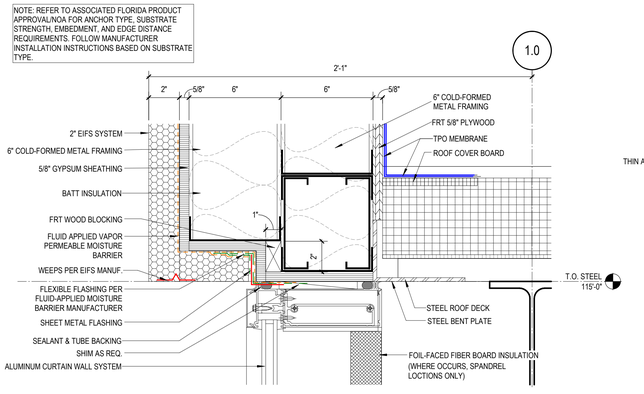
06 A5.32 ENLARGED SECTION DETAIL - ACM BASE AT ROOF
1 1/2" = 1'-0"

05 A5.32 ENLARGED SECTION DETAIL - ACM SOFFIT
3" = 1'-0"

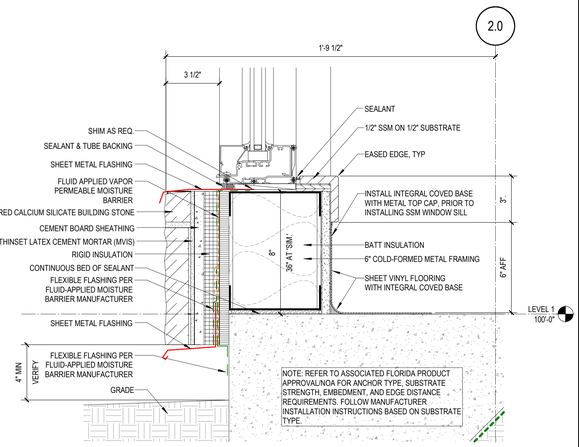
04 A5.32 EXTERIOR SECTION DETAIL - ACM PARAPET CAP
1 1/2" = 1'-0"



03 A5.32 ENLARGED SECTION DETAIL - CMU TO DECK AT BULK 02
1 1/2" = 1'-0"



02 A5.32 ENLARGED SECTION DETAIL - CURTAINWALL HEAD AT EIFS
3" = 1'-0"



01 A5.32 ENLARGED SECTION DETAIL - STOREFRONT SILL AT STONE
3" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

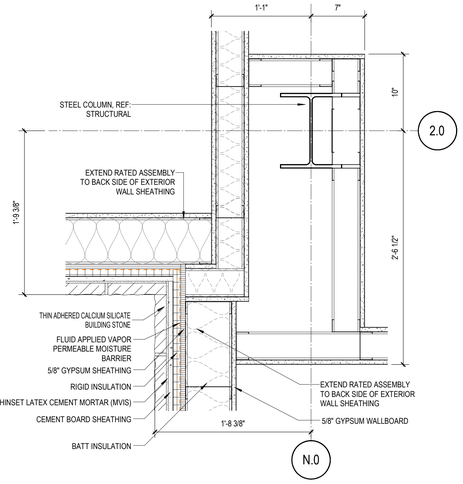
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

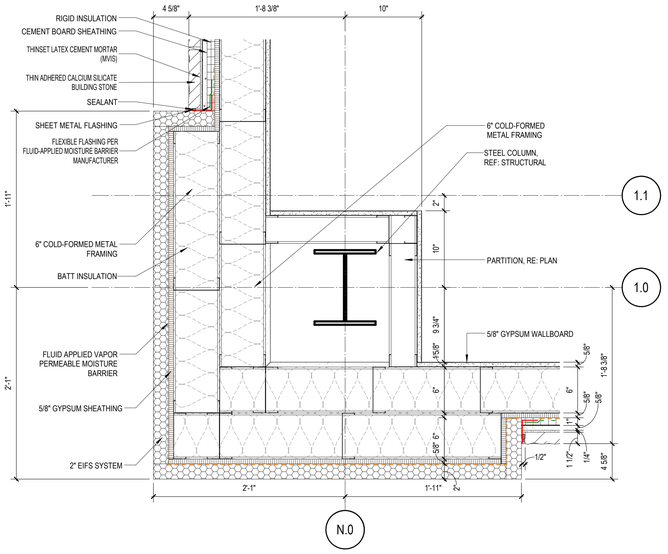
A5.32

EXTERIOR SECTION DETAILS

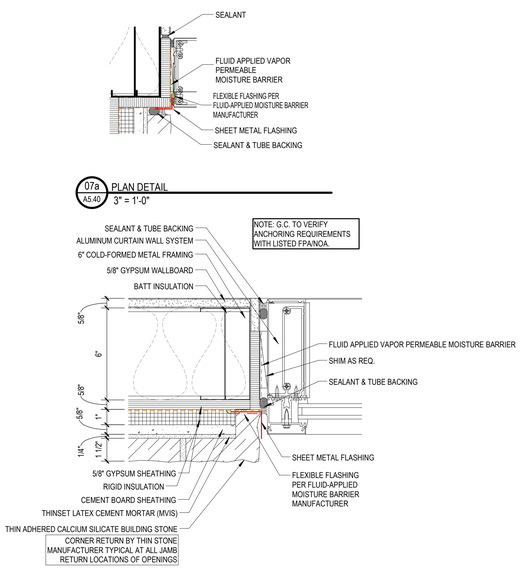
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWINGS. ADJUST SCALE ACCORDINGLY IF NOT.



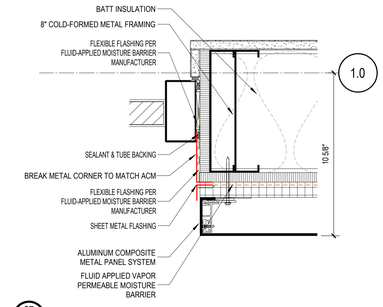
10 A5.40 PLAN DETAIL
1 1/2" = 1'-0"



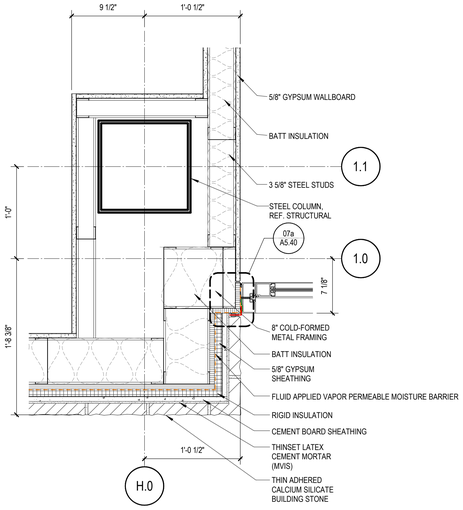
09 A5.40 PLAN DETAIL
1 1/2" = 1'-0"



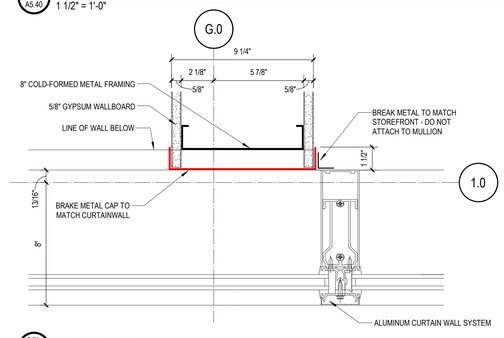
08 A5.40 PLAN DETAIL
3" = 1'-0"



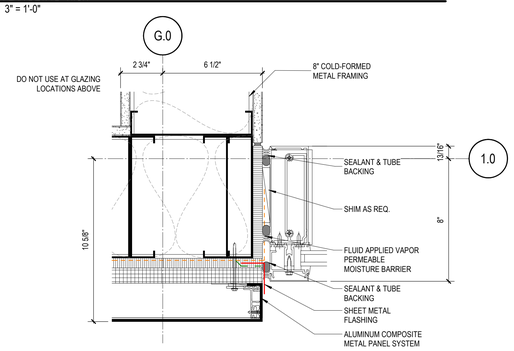
07 A5.40 PLAN DETAIL
3" = 1'-0"



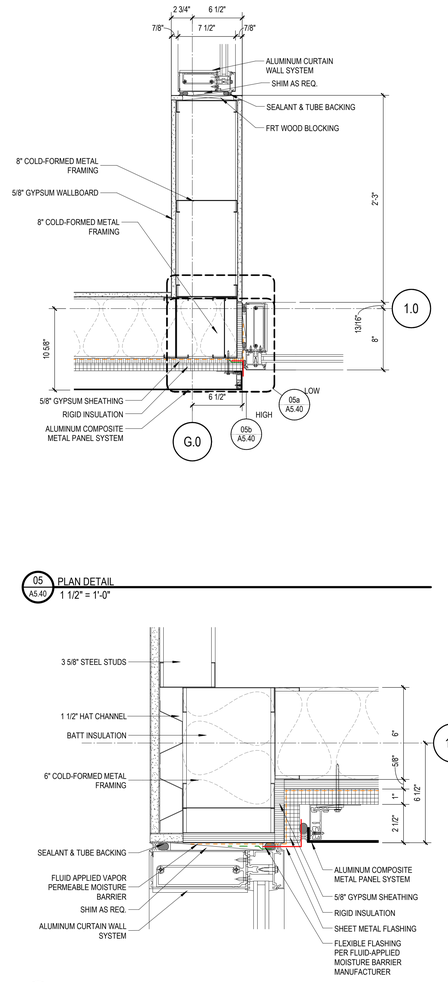
06 A5.40 PLAN DETAIL
1 1/2" = 1'-0"



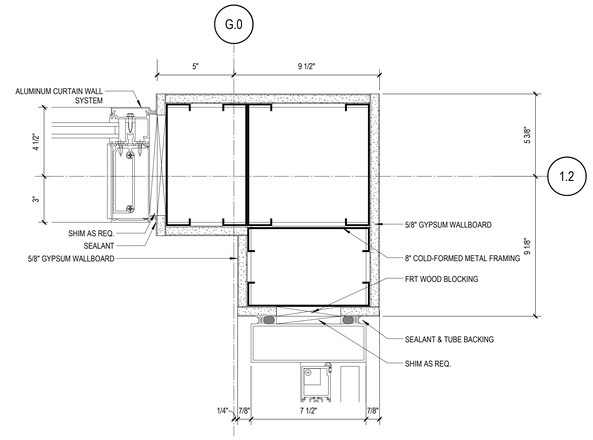
05b A5.40 PLAN DETAIL - HIGH
3" = 1'-0"



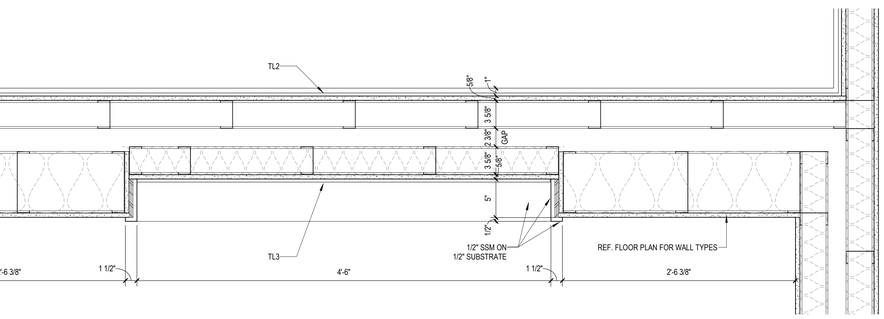
05a A5.40 PLAN DETAIL
3" = 1'-0"



05 A5.40 PLAN DETAIL
1 1/2" = 1'-0"

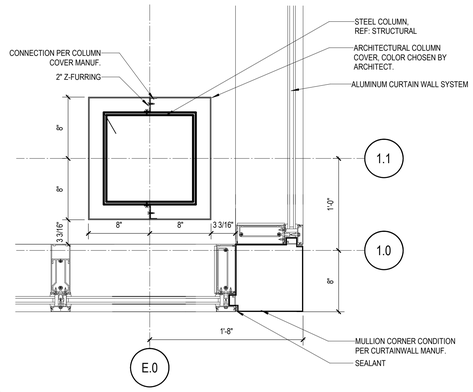


04 A5.40 PLAN DETAIL
3" = 1'-0"



03 A5.40 PLAN DETAIL
1 1/2" = 1'-0"

02 A5.40 PLAN DETAIL
3" = 1'-0"



01 A5.40 PLAN DETAIL
1 1/2" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
869.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

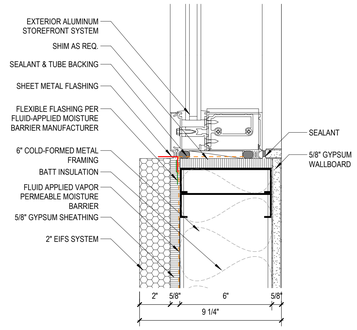
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

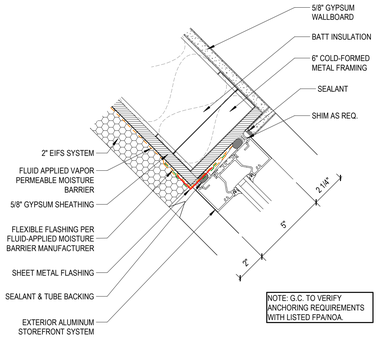
A5.40

ARCHITECTURAL PLAN DETAILS

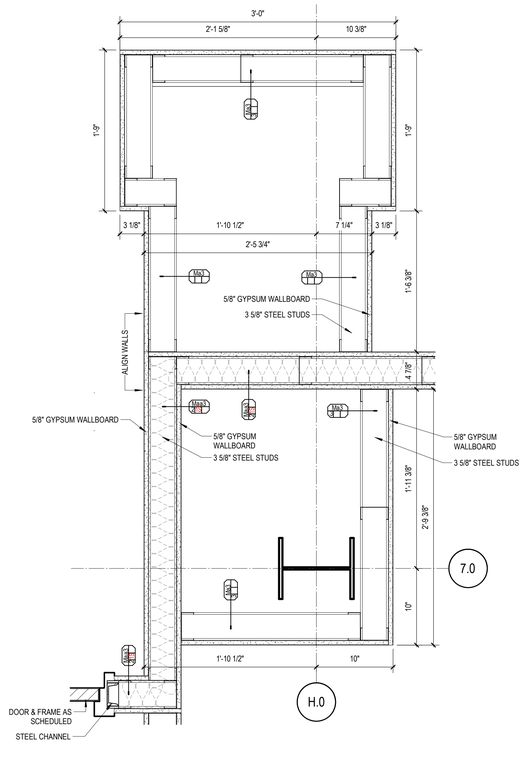
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS



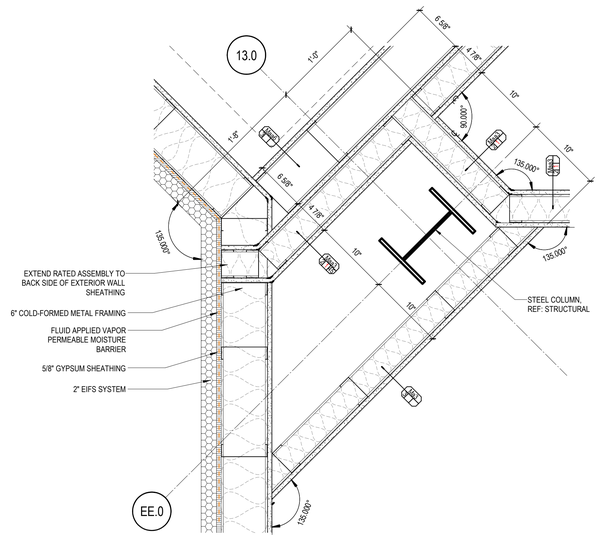
12 A5.41 PLAN DETAILS
3" = 1'-0"



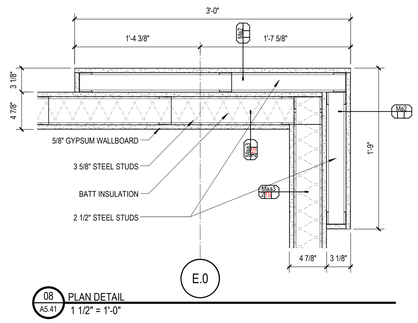
11 A5.41 PLAN DETAIL
3" = 1'-0"



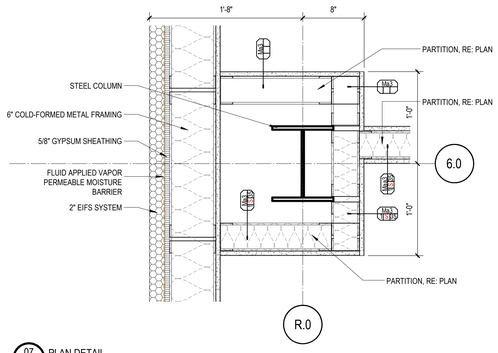
10 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



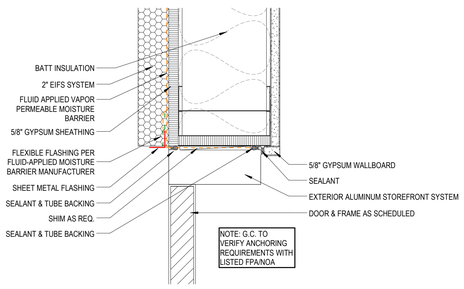
09 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



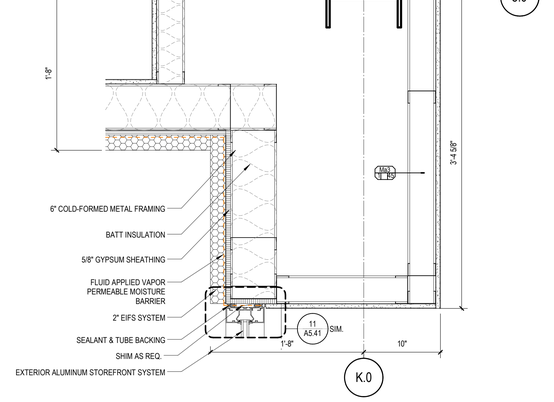
08 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



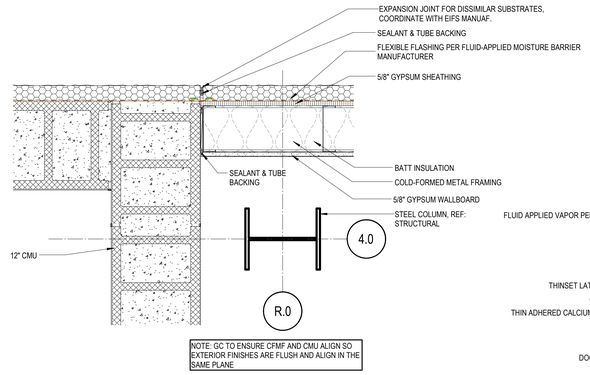
07 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



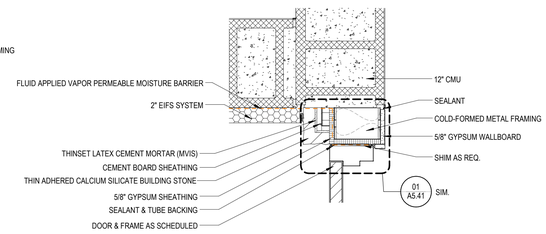
06 A5.41 PLAN DETAIL
3" = 1'-0"



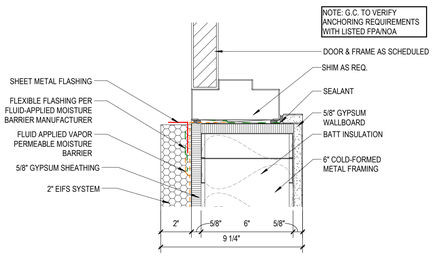
05 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



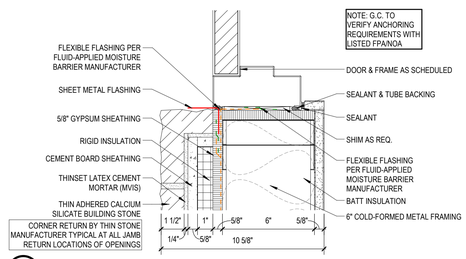
04 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



03 A5.41 PLAN DETAIL
1 1/2" = 1'-0"



02 A5.41 PLAN DETAIL - HIGH
3" = 1'-0"



01 A5.41 PLAN DETAIL - LOW
3" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

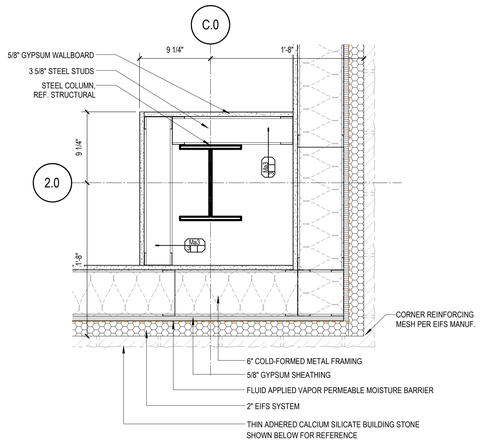
CURRENT:

SHEET TITLE AND NUMBER:

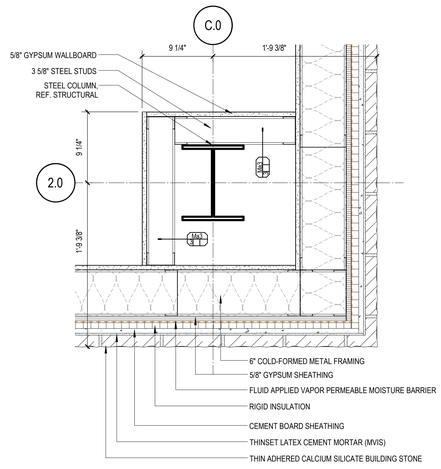
A5.41

ARCHITECTURAL PLAN DETAILS

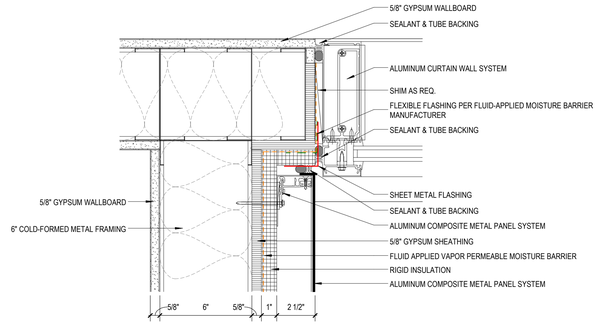
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE
IF NOT, ADJUST ACCORDINGLY



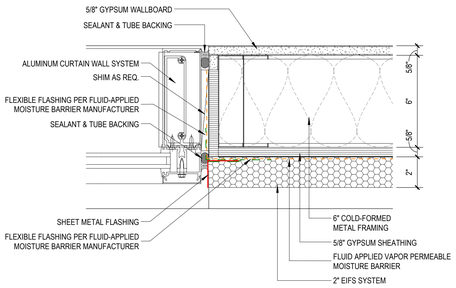
08 A5.42 PLAN DETAIL - HIGH
1 1/2" = 1'-0"



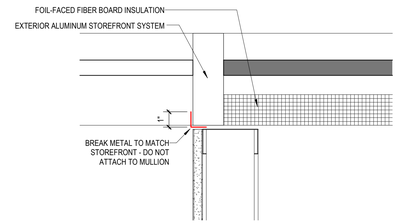
07 A5.42 PLAN DETAIL - LOW
1 1/2" = 1'-0"



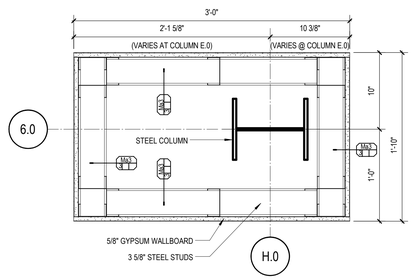
06 A5.42 PLAN DETAIL
3" = 1'-0"



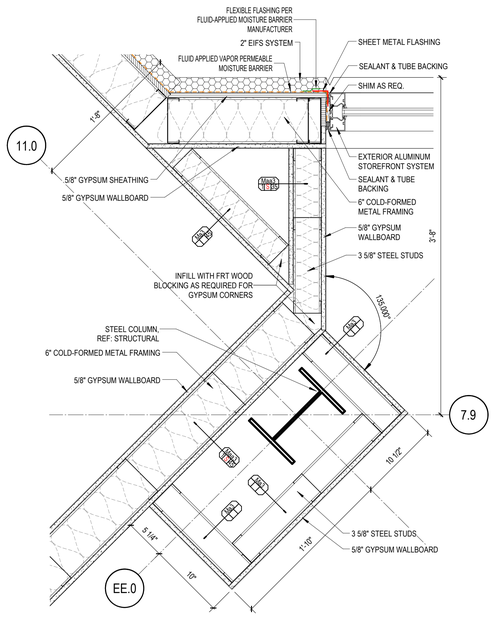
05 A5.42 PLAN DETAIL
3" = 1'-0"



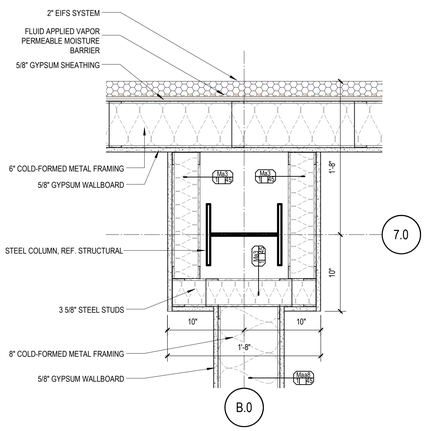
09 A5.42 PLAN DETAIL
3" = 1'-0"



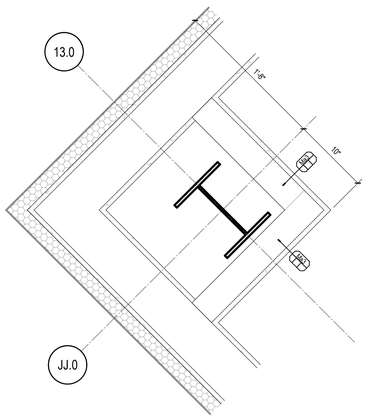
04 A5.42 PLAN DETAIL
1 1/2" = 1'-0"



03 A5.42 PLAN DETAIL
1 1/2" = 1'-0"



02 A5.42 PLAN DETAIL
1 1/2" = 1'-0"



01 A5.42 PLAN DETAIL
1 1/2" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

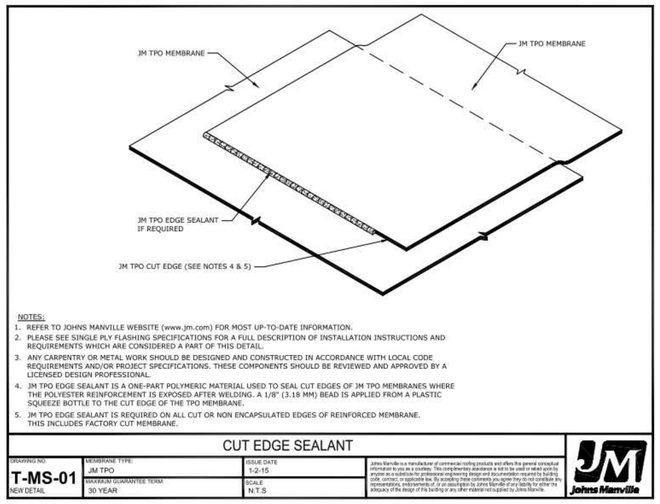
SHEET TITLE AND NUMBER:

A5.42

ARCHITECTURAL PLAN DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH SHEETS

DETAILS PER 'A2' SERIES ARE PROVIDED SPECIFICALLY TO COMMUNICATE REQUIREMENTS OF THE PROPRIETARY ROOFING SYSTEM. REFERENCE AND COORDINATE ALL APPLICATIONS WITH SPECIFIC KEYED IN WALL SECTIONS / DETAILS FOR ROOFING CONSTRUCTION AND PROPER INSTALLATION.



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS A ONE-PART POLYMERIC MATERIAL USED TO SEAL CUT EDGES OF JM TPO MEMBRANES WHERE THE POLYESTER REINFORCEMENT IS EXPOSED AFTER WELDING. A 1/8" (3.18 MM) BEAD IS APPLIED FROM A PLASTIC SQUEEZE BOTTLE TO THE CUT EDGE OF THE TPO MEMBRANE.
5. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.

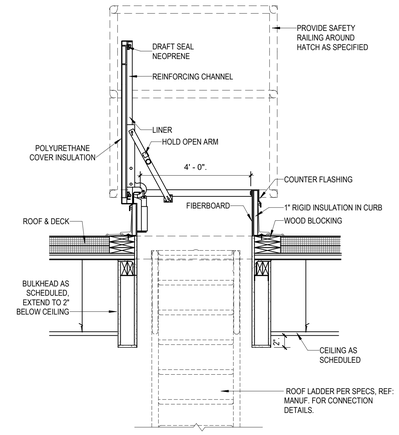
CUT EDGE SEALANT

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE
T-MS-01	JM TPO	1-2-15
NEW DETAIL	MINIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

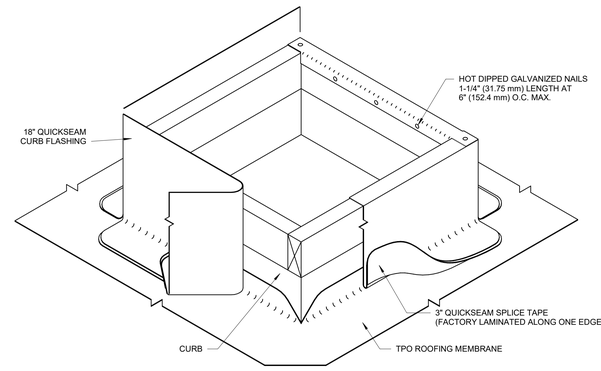
Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by you or any third party for compliance with building codes, design professional practices, or any law, code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

Johns Manville

11 A5.50 ROOF DETAILS - TPO MEMBRANE SHEET SEAMING
3" = 1'-0"

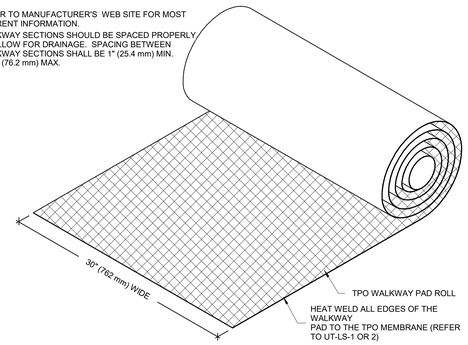


10 A5.50 ROOF HATCH DETAIL
3/4" = 1'-0"



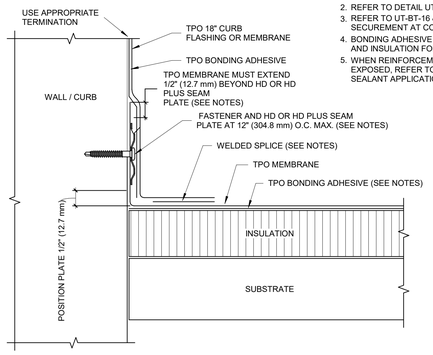
09 A5.50 QUICKSEAM CURB FLASHING
1 1/2" = 1'-0"

NOTES:
1. REFER TO MANUFACTURER'S WEB SITE FOR MOST CURRENT INFORMATION.
2. WALKWAY SECTIONS SHOULD BE SPACED PROPERLY TO ALLOW FOR DRAINAGE. SPACING BETWEEN WALKWAY SECTIONS SHALL BE 1" (25.4 mm) MIN. TO 3" (76.2 mm) MAX.



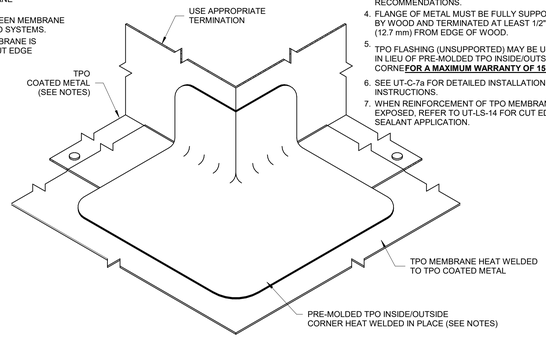
08 A5.50 WALKWAY PAD
1 1/2" = 1'-0"

NOTES:
1. REFER TO MANUFACTURER'S WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. REFER TO UT-BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

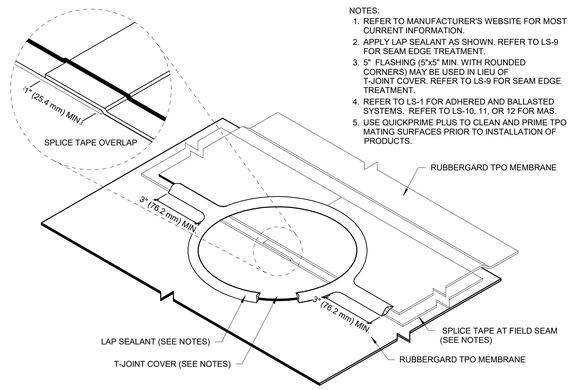


07 A5.50 BASE TIE-IN AT WALL/CURB
1 1/2" = 1'-0"

1. REFER TO MANUFACTURER'S WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
5. TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED TPO INSIDE/OUTSIDE CORNE**FOR A MAXIMUM WARRANTY OF 15 YEARS**
6. SEE UT-C-7a FOR DETAILED INSTALLATION INSTRUCTIONS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

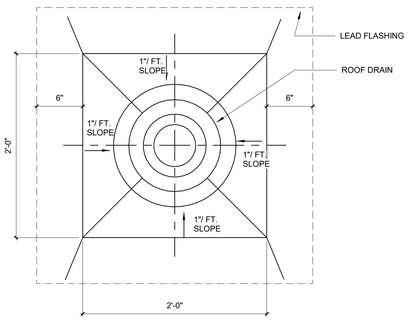


06 A5.50 OUTSIDE CORNER
1 1/2" = 1'-0"

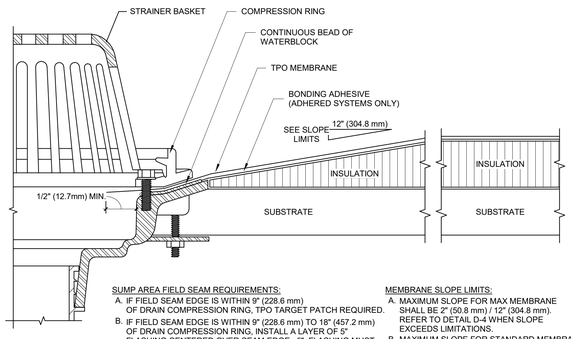


NOTES:
1. REFER TO MANUFACTURER'S WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY LAP SEALANT AS SHOWN. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. 5" FLASHING (5"x5" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
4. REFER TO LS-1 FOR ADHERED AND BALLASTED SYSTEMS. REFER TO LS-10, 11, OR 12 FOR MAS.
5. USE QUICKPRIME PLUS TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF PRODUCTS.

05 A5.50 LAP SPLICE WITH SPLICE
1 1/2" = 1'-0"



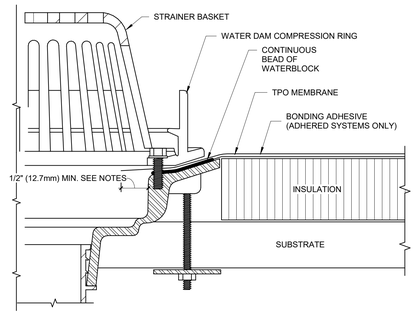
04 A5.50 ROOF DRAIN SUMP AREA
1 1/2" = 1'-0"



SUMP AREA FIELD SEAM REQUIREMENTS:
A. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) OF DRAIN COMPRESSION RING, TPO TARGET PATCH REQUIRED.
B. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) TO 18" (457.2 mm) OF DRAIN COMPRESSION RING, INSTALL A LAYER OF 5" FLASHING CENTERED OVER SEAM EDGE. 5" FLASHING MUST EXTEND 3" (76.2 mm) MIN. BEYOND EDGE OF SUMP.

MEMBRANE SLOPE LIMITS:
A. MAXIMUM SLOPE FOR MAX MEMBRANE SHALL BE 2" (50.8 mm) / 12" (304.8 mm). REFER TO DETAIL D-4 WHEN SLOPE EXCEEDS LIMITATIONS.
B. MAXIMUM SLOPE FOR STANDARD MEMBRANE SHALL BE 6" (152.4 mm) / 12" (304.8 mm).

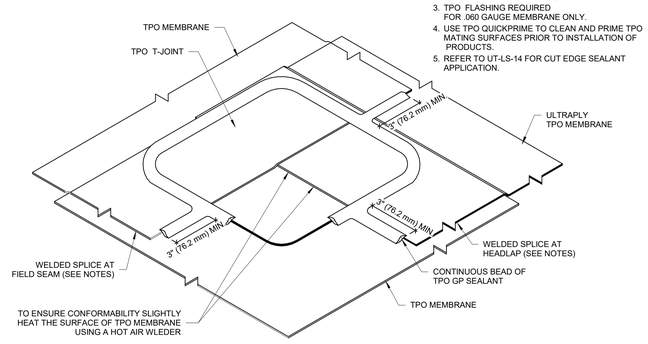
03 A5.50 ROOF DRAIN SUMP AREA
1 1/2" = 1'-0"



FIELD SEAM REQUIREMENTS:
A. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) OF DRAIN COMPRESSION RING, TPO TARGET PATCH REQUIRED.
B. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) TO 18" (457.2 mm) OF DRAIN COMPRESSION RING, INSTALL A LAYER OF 5" FLASHING CENTERED OVER SEAM EDGE. 5" FLASHING MUST EXTEND 3" (76.2 mm) MIN. BEYOND EDGE OF SUMP.

02 A5.50 OVERFLOW ROOF DRAIN DETAIL
1 1/2" = 1'-0"

NOTES:
1. REFER TO MANUFACTURER'S WEB SITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1,2,3 FOR WELD WIDTH.
3. TPO FLASHING REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. USE TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF PRODUCTS.
5. REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



01 A5.50 LAP SPLICE WITH HEAD LAP
1 1/2" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

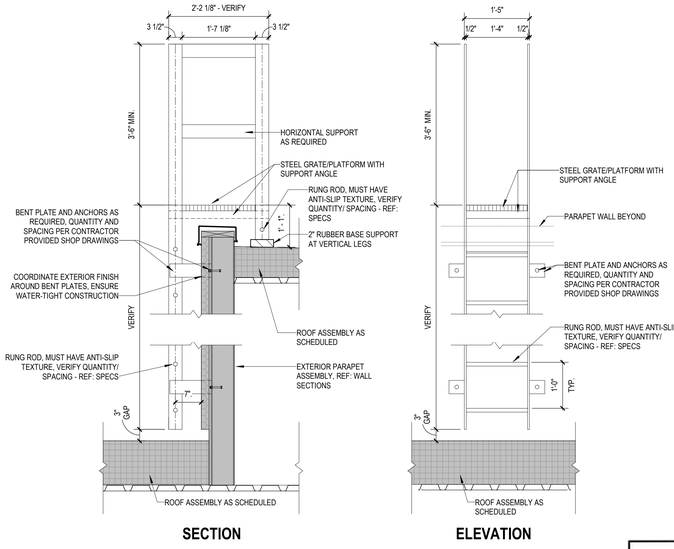
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

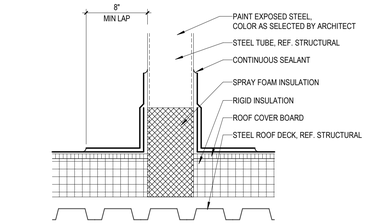
A5.50

ROOF DETAILS

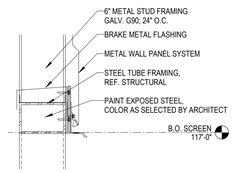
DETAILS PER 'A2' SERIES ARE PROVIDED SPECIFICALLY TO COMMUNICATE REQUIREMENTS OF THE PROPRIETARY ROOFING SYSTEM. REFERENCE AND COORDINATE ALL APPLICATIONS WITH SPECIFIC KEYED IN WALL SECTIONS / DETAILS FOR ROOFING CONSTRUCTION AND PROPER INSTALLATION.



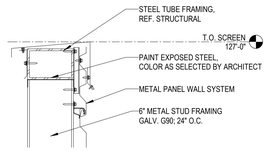
12 A5.51 ROOF PARAPET LADDER
3/4" = 1'-0"



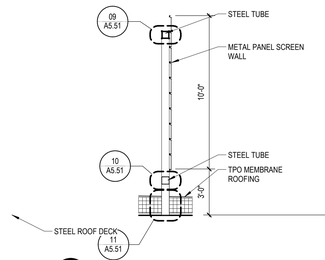
11 A5.51 ROOF DETAILS - SCREEN WALL FLASHING DETAIL
1 1/2" = 1'-0"



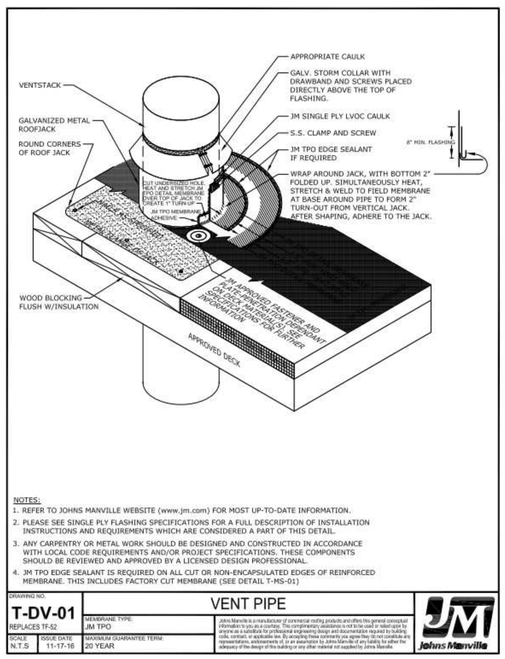
10 A5.51 ROOF DETAILS - SCREEN WALL DETAIL
1 1/2" = 1'-0"



09 A5.51 ROOF DETAILS - SCREEN WALL HEAD DETAIL
1 1/2" = 1'-0"



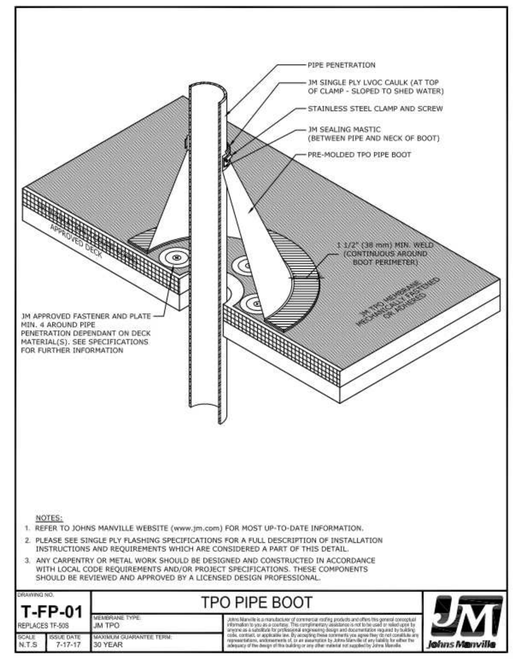
08 A5.51 SECTION AT MECHANICAL SCREEN WALL
1/4" = 1'-0"



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01)

DRAWING NO.			
T-DV-01	VENT PIPE		
REPLACES TF-52	MEMBRANE TYPE: JM TPO	Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used in retest-spec by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.	
SCALE: N.T.S	ISSUE DATE: 11-17-16	MAXIMUM GUARANTEE TERM: 20 YEAR	

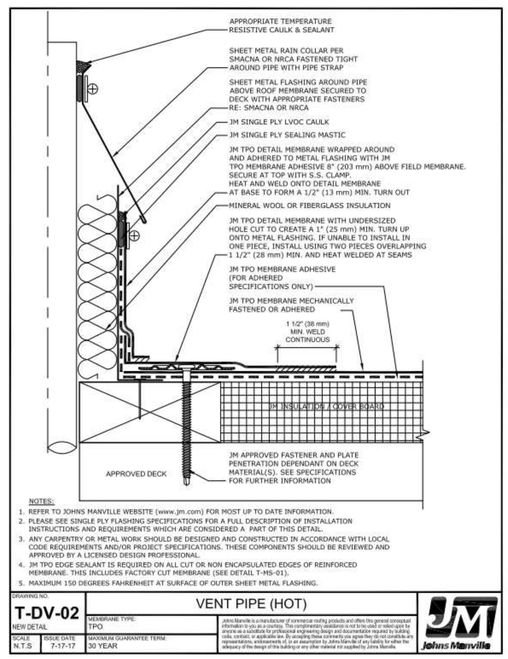
07 A5.51 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING
3" = 1'-0"



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.

DRAWING NO.			
T-FP-01	TPO PIPE BOOT		
REPLACES TF-50S	MEMBRANE TYPE: JM TPO	Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used in retest-spec by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.	
SCALE: N.T.S	ISSUE DATE: 7-17-17	MAXIMUM GUARANTEE TERM: 30 YEAR	

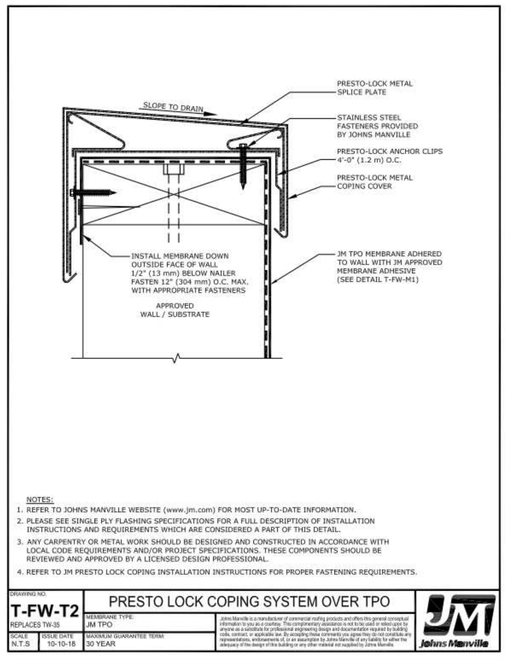
06 A5.51 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 3
3" = 1'-0"



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP TO DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. MAXIMUM 150 DEGREES FAHRENHEIT AT SURFACE OF OUTER SHEET METAL FLASHING.

DRAWING NO.			
T-DV-02	VENT PIPE (HOT)		
NEW DETAIL	MEMBRANE TYPE: TPO	Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used in retest-spec by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.	
SCALE: N.T.S	ISSUE DATE: 7-17-17	MAXIMUM GUARANTEE TERM: 30 YEAR	

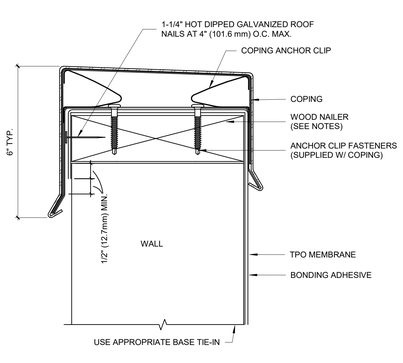
05 A5.51 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 2
3" = 1'-0"



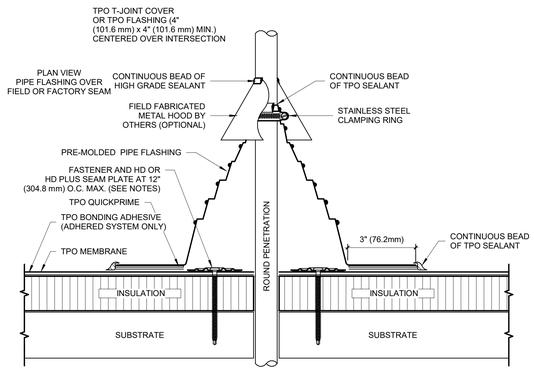
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. REFER TO JM PRESTO LOCK COPING INSTALLATION INSTRUCTIONS FOR PROPER FASTENING REQUIREMENTS.

DRAWING NO.			
T-FW-T2	PRESTO LOCK COPING SYSTEM OVER TPO		
REPLACES TW-35	MEMBRANE TYPE: JM TPO	Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used in retest-spec by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.	
SCALE: N.T.S	ISSUE DATE: 10-10-18	MAXIMUM GUARANTEE TERM: 30 YEAR	

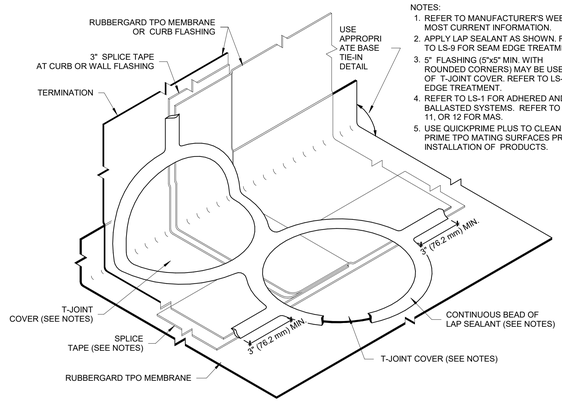
04 A5.51 ROOF DETAILS - TPO MEMBRANE PARAPET TERMINATIONS 2
3" = 1'-0"



03 A5.51 COPING DETAIL
1 1/2" = 1'-0"



02 A5.51 THRU PENETRATION WITH FLASHING
1 1/2" = 1'-0"



NOTES:
1. REFER TO MANUFACTURER'S WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY LAP SEALANT AS SHOWN. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
3. 5" FLASHING (5"x5" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
4. REFER TO LS-1 FOR ADHERED AND BALLASTED SYSTEMS. REFER TO LS-10, 11, OR 12 FOR MAS.
5. USE QUICKPRIME PLUS TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF PRODUCTS.

01 A5.51 LAP SPLICE AT CURB/WALL
1 1/2" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

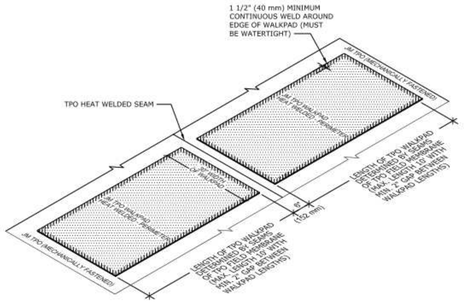
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.51

ROOF DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ORIGINAL PLOT SIZE

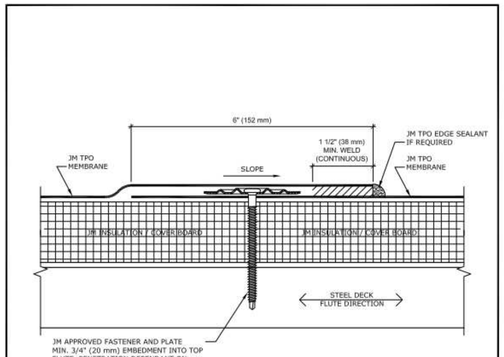


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. DO NOT INSTALL WALKPADS OVER MEMBRANE SEAMS.

DRAWING NO. **T-PT-07** — TPO WALKPAD OVER MECHANICALLY FASTENED TPO MEMBRANE
REPLACES TM-02M | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 8-25-16 | MAXIMUM GUARANTEE TERM: 20 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

08 A5.52 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 9
3" = 1'-0"

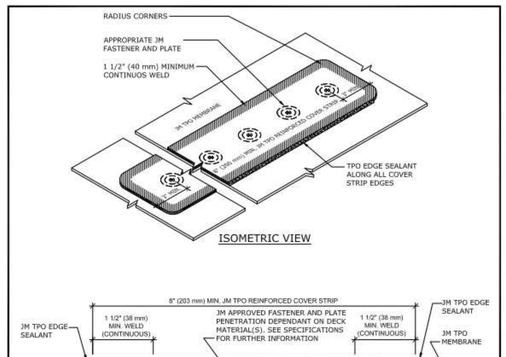


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

DRAWING NO. **T-MS-02** — IN LAP FASTENING METHOD-STEEL DECK
REPLACES TA-1 | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 1-2-15 | MAXIMUM GUARANTEE TERM: 30 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

07 A5.52 ROOF DETAILS - TPO MEMBRANE SHEET SEAMING 2
3" = 1'-0"

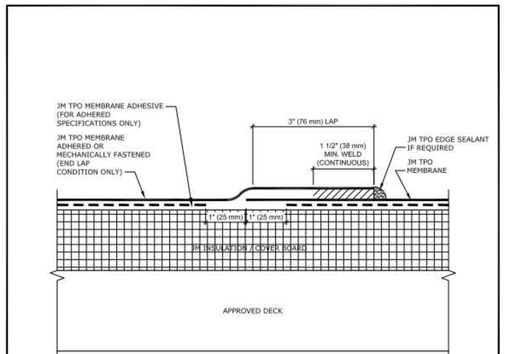


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

DRAWING NO. **T-MS-06** — CONTINUOUS STRIP FASTENING METHOD
REPLACES TA-2 | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 1-2-15 | MAXIMUM GUARANTEE TERM: 20 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

06 A5.52 ROOF DETAILS - TPO MEMBRANE SHEET SEAMING 3
3" = 1'-0"

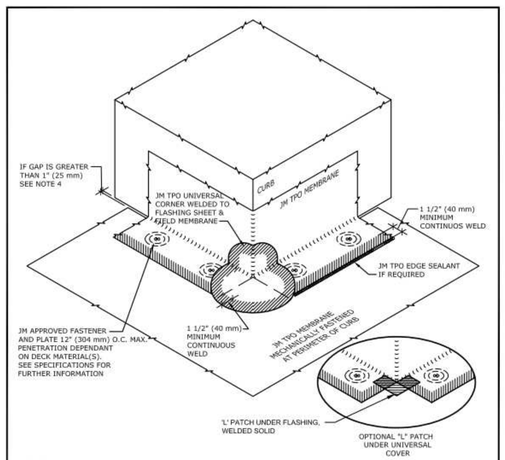


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

DRAWING NO. **T-MS-07** — MEMBRANE SIDE LAP
REPLACES TA-5-ADH | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 7-14-17 | MAXIMUM GUARANTEE TERM: 30 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

05 A5.52 ROOF DETAILS - TPO MEMBRANE SHEET SEAMING 4
3" = 1'-0"

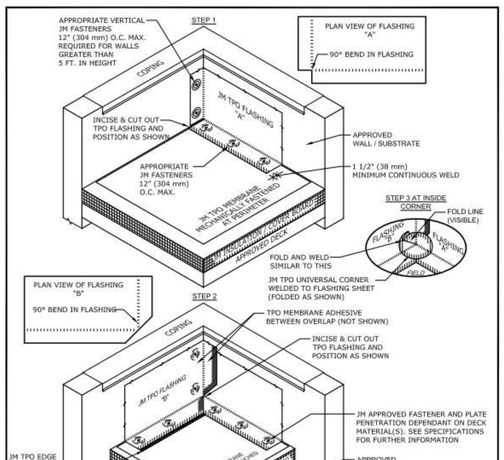


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. IF GAP OR CUT IN MEMBRANE IS GREATER THAN 1" UNDER TPO UNIVERSAL CORNER, AN "L" PATCH THAT EXTENDS OUT ONTO THE MEMBRANE A MINIMUM OF 2" MUST BE INSTALLED AT OUTSIDE CORNER. ("L" PATCH SHOWN AT RIGHT WITHOUT TPO UNIVERSAL CORNER)
5. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

DRAWING NO. **T-FC-03** — OUTSIDE CORNER
REPLACES TF-62A | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 1-2-15 | MAXIMUM GUARANTEE TERM: 30 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

04 A5.52 ROOF DETAILS - TPO MEMBRANE CURB FLASHING 3
3" = 1'-0"

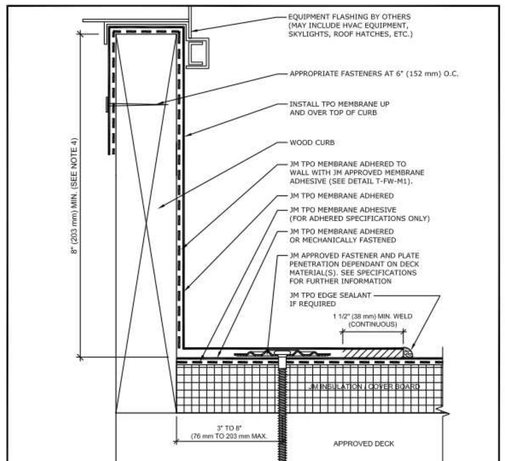


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT EDGES (SEE DETAIL T-MS-01).

DRAWING NO. **T-FC-04** — INSIDE CORNER
CURB & CORNER | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 03-15-19 | MAXIMUM GUARANTEE TERM: 30 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

03 A5.52 ROOF DETAILS - TPO MEMBRANE CURB FLASHING 4
3" = 1'-0"

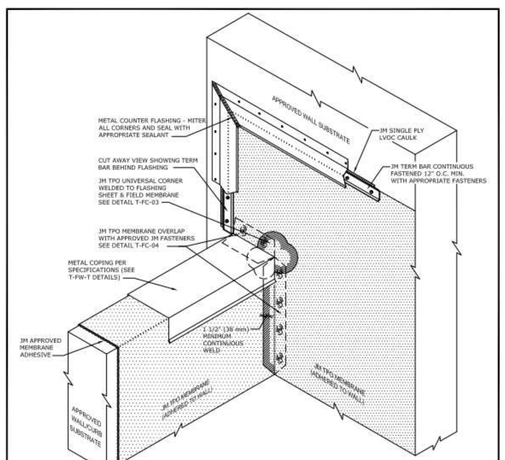


NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
6. SEE T-FW-B DETAILS FOR JM APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

DRAWING NO. **T-FC-05** — WOOD CURB BASE FLASHING
NEW DETAIL | MEMBRANE TYPE: JM TPO
SCALE N.T.S | ISSUE DATE 8-7-17 | MAXIMUM GUARANTEE TERM: 30 YEAR

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

02 A5.52 ROOF DETAILS - TPO MEMBRANE CURB FLASHING 5
3" = 1'-0"



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL. CONTACT JM TECHNICAL FOR METAL OPTIONS TO BE INCLUDED WITHIN THE JM NDL GUARANTEE.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. TERM BARS MUST BE FASTENED NO MORE THAN 1" (25 mm) FROM THE END OF ALL BARS
6. PLEASE SEE JM TPO INSIDE AND OUTSIDE CORNER DETAILS FOR INSTALLATION INSTRUCTIONS THAT ARE PART OF THIS DETAIL (SEE DETAILS T-FC-03 AND T-FC-04).

DRAWING NO. **T-FC-06** — FLASHING WALL WITH TERM BAR AND CORNER COPING
CURB & CORNER | MEMBRANE TYPE: TPO
SCALE N.T.S | ISSUE DATE 07-18-19 | MAXIMUM GUARANTEE TERM:

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of the building or any other material not supplied by Johns Manville.

01 A5.52 ROOF DETAILS - TPO MEMBRANE CURB FLASHING 6
3" = 1'-0"

DETAILS PER 'A2' SERIES ARE PROVIDED SPECIFICALLY TO COMMUNICATE REQUIREMENTS OF THE PROPRIETARY ROOFING SYSTEM. REFERENCE AND COORDINATE ALL APPLICATIONS WITH SPECIFIC KEYED IN WALL SECTIONS / DETAILS FOR ROOFING CONSTRUCTION AND PROPER INSTALLATION.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

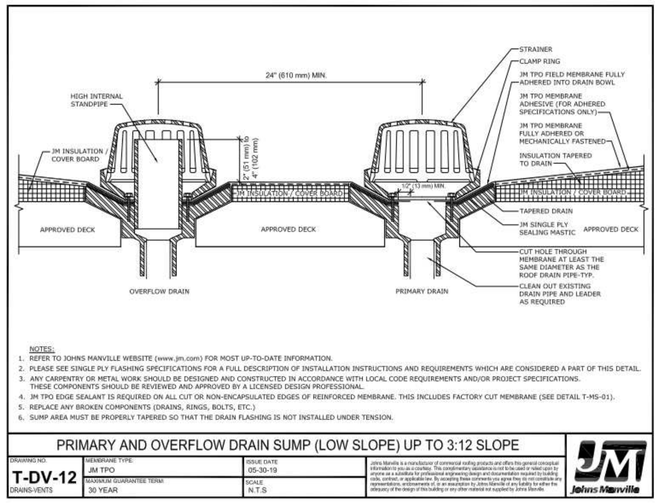
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.52

ROOF DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCHITECTURAL SHEETS



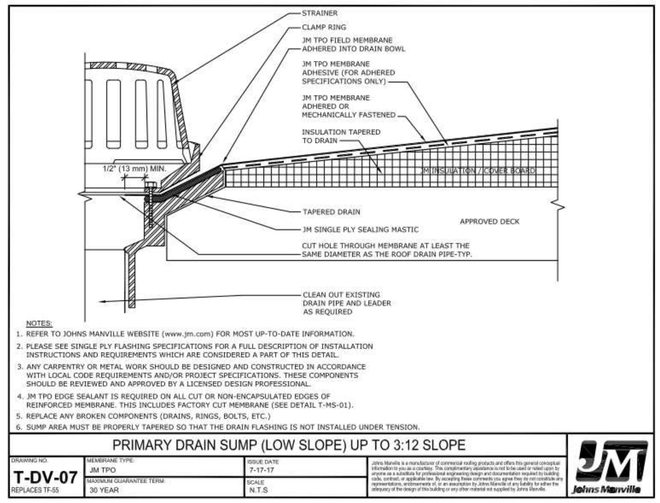
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. REPLACE ANY BROKEN COMPONENTS (DRAINS, RINGS, BOLTS, ETC.)
6. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.

PRIMARY AND OVERFLOW DRAIN SUMP (LOW SLOPE) UP TO 3:12 SLOPE

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-DV-12	JM TPO	05-30-19
DRAINS-VENTS	MAXIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

07 A5.53 ROOF DETAILS - TPO MEMBRANE ROOF DRAIN SUMP SECTION 3
3" = 1'-0"



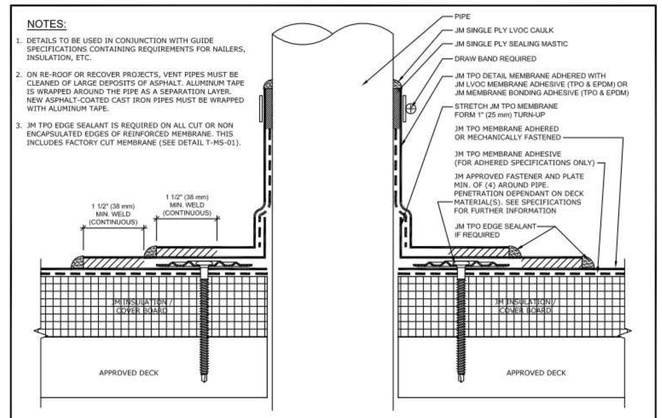
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. REPLACE ANY BROKEN COMPONENTS (DRAINS, RINGS, BOLTS, ETC.)
6. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.

PRIMARY DRAIN SUMP (LOW SLOPE) UP TO 3:12 SLOPE

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-DV-07	JM TPO	7-17-17
REPLACES TF-55	MAXIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

06 A5.53 ROOF DETAILS - TPO MEMBRANE ROOF DRAIN SUMP SECTION
3" = 1'-0"



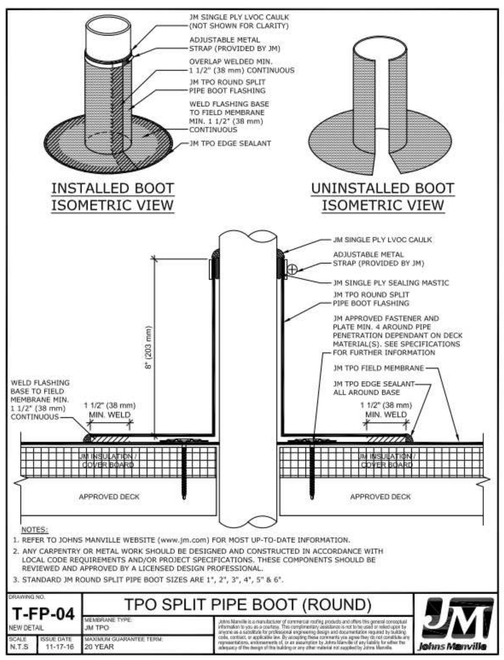
NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. ON RE-ROOF OR RECOVER PROJECTS, VENT PIPES MUST BE CLEANED OF LARGE DEPOSITS OF ASPHALT. ALUMINUM TAPE IS WRAPPED AROUND THE PIPE AS A SEPARATION LAYER. NEW ASPHALT-COATED CAST IRON PIPES MUST BE WRAPPED WITH ALUMINUM TAPE.
3. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).

FIELD FABRICATED PIPE PENETRATION

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-FP-07	JM TPO	7-17-17
REPLACES TF-51	MAXIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

05 A5.53 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 6
3" = 1'-0"



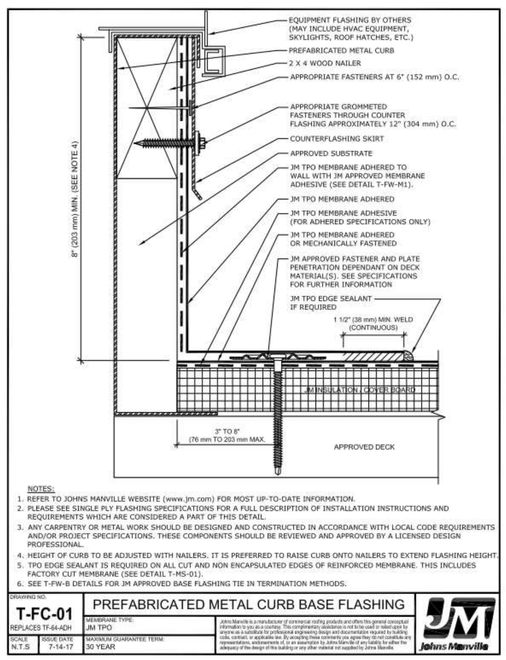
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
3. STANDARD JM ROUND SPLIT PIPE BOOT SIZES ARE 1", 2", 3", 4", 5" & 6".

TPO SPLIT PIPE BOOT (ROUND)

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-FP-04	JM TPO	11-17-16
NEW DETAIL	MAXIMUM GUARANTEE TERM: 20 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

04 A5.53 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 4
3" = 1'-0"



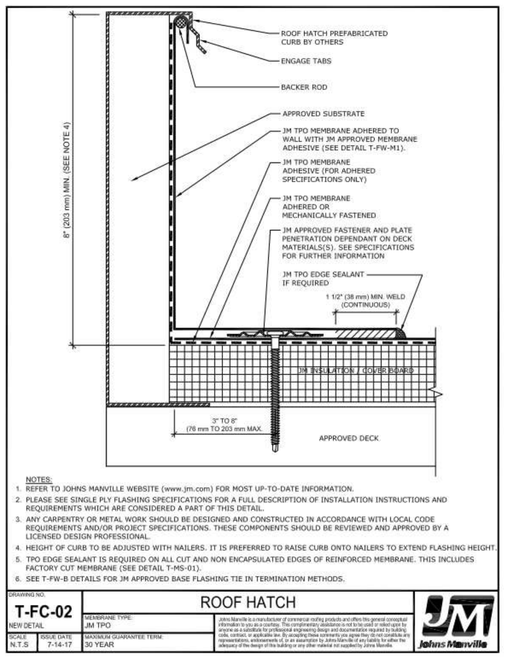
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
6. SEE T-FW-B DETAILS FOR JM APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

PREFABRICATED METAL CURB BASE FLASHING

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-FC-01	JM TPO	7-14-17
REPLACES TF-64-4DH	MAXIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

03 A5.53 ROOF DETAILS - TPO MEMBRANE CURB FLASHING
3" = 1'-0"



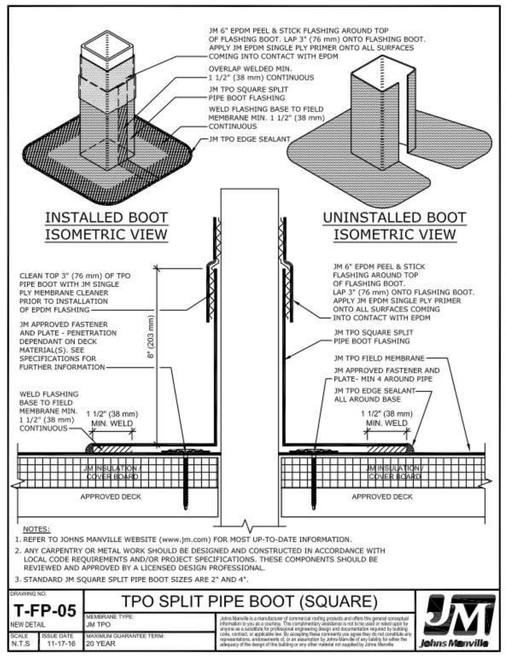
NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
6. SEE T-FW-B DETAILS FOR JM APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

ROOF HATCH

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-FC-02	JM TPO	7-14-17
NEW DETAIL	MAXIMUM GUARANTEE TERM: 30 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

02 A5.53 ROOF DETAILS - TPO MEMBRANE CURB FLASHING 2
3" = 1'-0"



NOTES:
1. REFER TO JOHNS MANVILLE WEBSITE (www.jm.com) FOR MOST UP-TO-DATE INFORMATION.
2. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
3. STANDARD JM SQUARE SPLIT PIPE BOOT SIZES ARE 2" AND 4".

TPO SPLIT PIPE BOOT (SQUARE)

DRAWING NO.	MEMBRANE TYPE:	ISSUE DATE:
T-FP-05	JM TPO	11-17-16
NEW DETAIL	MAXIMUM GUARANTEE TERM: 20 YEAR	SCALE: N.T.S

Johns Manville is a manufacturer of commercial roofing products and offers this general conceptual information to you as a courtesy. This complimentary assistance is not to be used or relied upon by anyone as a substitute for professional engineering design and documentation required by building code, contract, or applicable law. By accepting these comments you agree they do not constitute any representations, endorsements of, or an assumption by Johns Manville of any liability for either the adequacy of the design of this building or any other material not supplied by Johns Manville.

01 A5.53 ROOF DETAILS - TPO MEMBRANE PREMOLD & PREFAB FLASHING 5
3" = 1'-0"

DETAILS PER 'A2' SERIES ARE PROVIDED SPECIFICALLY TO COMMUNICATE REQUIREMENTS OF THE PROPRIETARY ROOFING SYSTEM. REFERENCE AND COORDINATE ALL APPLICATIONS WITH SPECIFIC KEYED IN WALL SECTIONS / DETAILS FOR ROOFING CONSTRUCTION AND PROPER INSTALLATION.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

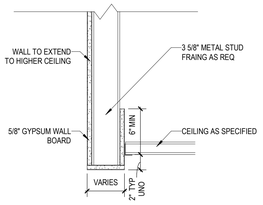
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

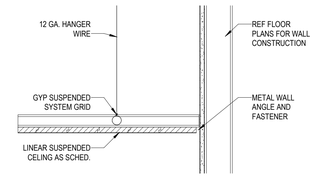
A5.53

ROOF DETAILS

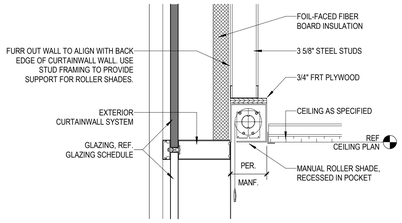
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCHITECTURAL SHEETS



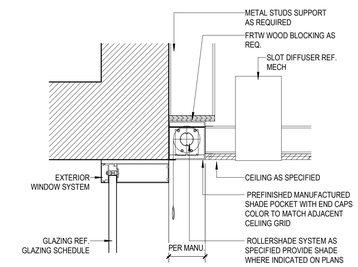
11 A5.60 RCP DETAIL BULKHEAD AT LOBBY
1 1/2" = 1'-0"



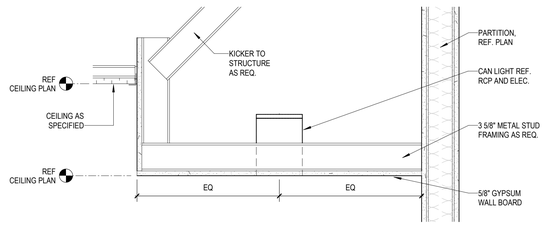
10 A5.60 LINEAR SUSPENDED WOOD CEIILING
1 1/2" = 1'-0"



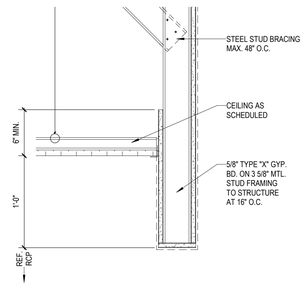
09 A5.60 RCP DETAIL -ROLLER SHADES- ADMINISTRATION
1 1/2" = 1'-0"



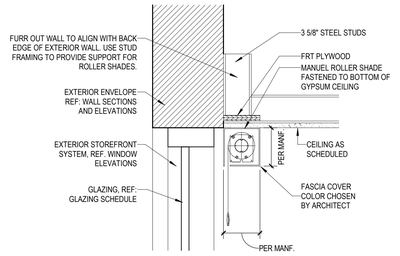
08 A5.60 RCP DETAIL LOBBY
1 1/2" = 1'-0"



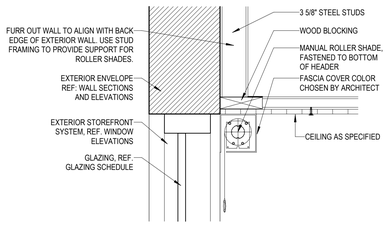
07 A5.60 RCP DETAIL - GYP TO ACT CEILING
1 1/2" = 1'-0"



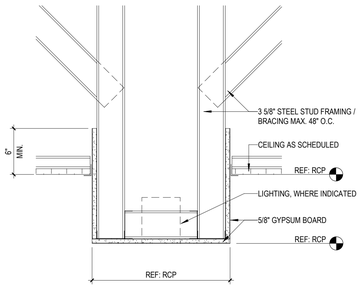
06 A5.60 RCP DETAIL - DIETARY HOOD
1 1/2" = 1'-0"



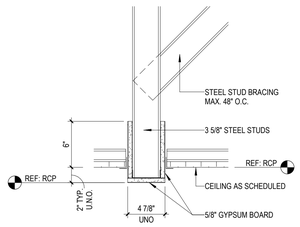
05 A5.60 RCP DETAIL - TYP. ROLLER SHADES- GYP. CEILING
1 1/2" = 1'-0"



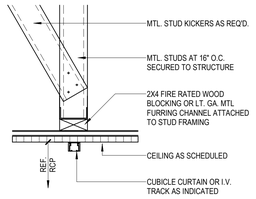
04 A5.60 RCP DETAIL - TYP. ROLLER SHADES- ACT CEILING
1 1/2" = 1'-0"



03 A5.60 TYPICAL GYPSUM BOARD DROP CEILING
1 1/2" = 1'-0"



02 A5.60 TYPICAL BULKHEAD
1 1/2" = 1'-0"



01 A5.60 RCP DETAIL
1 1/2" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

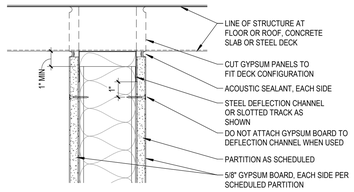
CURRENT:

SHEET TITLE AND NUMBER:

A5.60

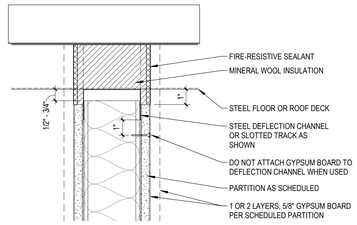
CEILING DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ORIGINAL PLOT SIZE



SMOKE AND ACOUSTICAL

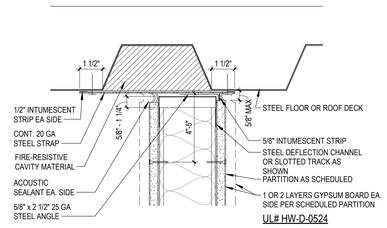
09 A5.70 HEAD "1"
3" = 1'-0"



1HR OR 2HR PARTITION HEAD AT STEEL DECK, PERPENDICULAR TO FLUTES

UL# HW-D-0034

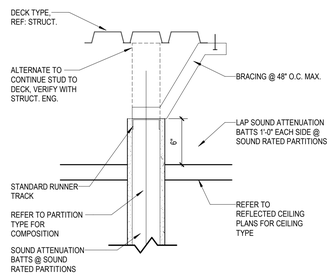
08 A5.70 HEAD "2"
3" = 1'-0"



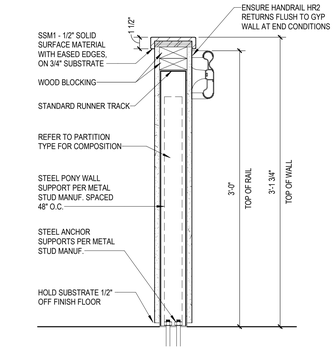
1HR OR 2HR PARTITION HEAD AT STEEL DECK, PARALLEL TO FLUTES

UL# HW-D-0524

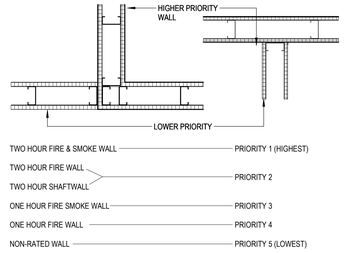
07 A5.70 HEAD "3"
1 1/2" = 1'-0"



(PARTITION TERMINATED ABOVE CEILING - ACOUSTIC AND NON-ACOUSTIC SHOWN)



10 A5.70 PONY WALL HEAD "4"
1 1/2" = 1'-0"



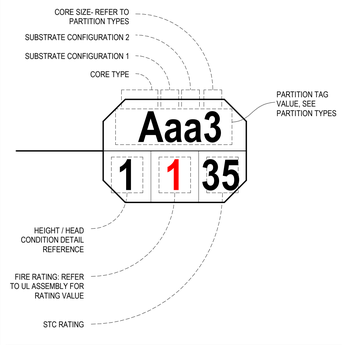
11 A5.70 WALL PRIORITY
1" = 1'-0"

STC REQUIREMENTS

DESIGN CRITERIA FOR MINIMUM SOUND ISOLATION PERFORMANCE (STC) BETWEEN ENCLOSED ROOMS

	ADJACENCY COMBINATION			
PATIENT CARE UNITS	PATIENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	PATIENT ROOM	TO	PATIENT ROOM (WALL-SAME FLOOR)	45
	PATIENT ROOM	TO	PATIENT ROOM (FLOOR TO FLOOR)	50
	PATIENT ROOM	TO	CONSULTATION ROOM	50
	PATIENT ROOM	TO	PUBLIC SPACE	50
	PATIENT ROOM	TO	SERVICE AREA	60
	PATIENT ROOM	TO	MRI ROOM	60
DIAGNOSTI AND TREATMENT LOCATIONS	EXAMINATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	EXAMINATION ROOM	TO	EXAMINATION ROOM (WITH ELECTRONIC MASKING)	40
	EXAMINATION ROOM	TO	EXAMINATION ROOM (NO ELECTRONIC MASKING)	50
	EXAMINATION ROOM	TO	PUBLIC SPACE	50
	EXAMINATION ROOM	TO	MRI ROOM	60
	TREATMENT ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
	TREATMENT ROOM	TO	TREATMENT ROOM	50
	OPERATING ROOM	TO	OPERATING ROOM	50
	OPERATING ROOM	TO	MRI SCANNER ROOM	60
	CONSULTATION ROOM	TO	PUBLIC SPACE	50
	CONSULTATION ROOM	TO	CORRIDOR (WITH ENTRANCE)	35
PUBLIC AREAS	TOILET ROOM	TO	PUBLIC SPACE	45
	PUBLIC SPACE	TO	MRI SCANNER ROOM	50

PARTITION TAGS



CORE TYPES

C. CAST IN PLACE CONCRETE

G. CONCRETE MASONRY UNIT (GROUTED SOLID)
H. CONCRETE MASONRY UNIT (HOLLOW)

M. METAL STUD FRAMING / METAL FURRING
MM. METAL STUD FRAMING (2 ROWS, PARALLEL WITH PRESCRIBED AIR GAP BETWEEN

SUBSTRATE CONFIGURATIONS

a. 5/8" GWB (1 LAYER)
b. 5/8" GWB (2 LAYER)
c. 5/8" GWB (3 LAYER)

g. 3/4" PLWD (1 LAYER)

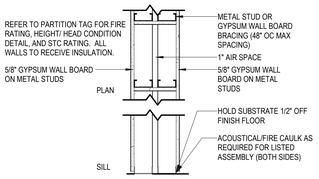
i. 5/8" GWB, 3/4" PLYWD

INSULATION TYPES

ALL INTERIOR PARTITIONS TO RECIEVE FULL-CAVITY ACOUSTICAL/THERAMAL INSULATION. REFERENCE SPECIFICATIONS FOR INSULATION TYPES.

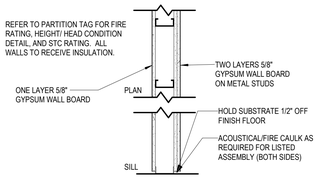
STC RATING

1 REFER TO STC REQUIREMENTS CHART ABOVE FOR RATING.



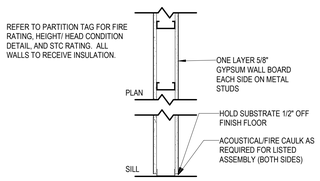
TAG	STUD SIZE	AIR SPACE	OVERALL THICK	UL ASSEMB
MMaa1	1-5/8"	1"	5-1/2"	---
MMaa2	2-1/2"	1"	7-1/4"	---
MMaa3	3-5/8"	1"	9-1/2"	---
MMaa4	4"	1"	10-1/4"	---
MMaa6	6"	1"	14-1/4"	---
MMaa8	8"	1"	18-1/4"	---

06 A5.70 PARTITION TYPE - MMaa
1" = 1'-0"



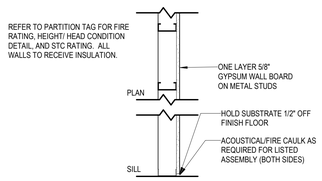
TAG	STUD SIZE	OVERALL THICK	UL ASSEMB
Mab1	1-5/8"	3-1/2"	---
Mab2	2-1/2"	4-3/8"	---
Mab3	3-5/8"	5-1/2"	---
Mab4	4"	5-7/8"	---
Mab6	6"	7-7/8"	---
Mab8	8"	9-7/8"	---

05 A5.70 PARTITION TYPE - Mab
1" = 1'-0"



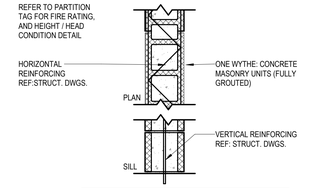
TAG	STUD SIZE	OVERALL THICK	UL ASSEMB	STC RATING	STC ASSEMBLY
Maa3	3-5/8"	4-7/8"	U-419	STC 50	SA-870717
Maa3	3-5/8"	4-7/8"	---	STC 50	NGC 2018107
Maa6	6"	7-1/4"	U-419	STC 50	NGC 2017169
Maa6	6"	7-1/4"	U-419	STC 45	NGC 2018133
Maa8	8"	9-1/4"	U-419	STC 45	NGC 2018133

04 A5.70 PARTITION TYPE - Maa
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	UL ASSEMB
Ma0	7/8"	1-1/2"	---
Ma1	1-5/8"	2-1/4"	---
Ma2	2-1/2"	3-1/8"	---
Ma3	3-5/8"	4-1/4"	---
Ma4	4"	4-5/8"	---
Ma6	6"	6-5/8"	---
Ma8	8"	8-5/8"	---

03 A5.70 PARTITION TYPE - Ma
1" = 1'-0"



TAG	BLOCK SIZE	OVERALL THICK	UL ASSEMB
G4	3-5/8"	3-5/8"	---
G6	5-5/8"	5-5/8"	---
G8	7-5/8"	7-5/8"	---
G10	9-5/8"	9-5/8"	---
G12	11-5/8"	11-5/8"	---
			---

02 A5.70 PARTITION TYPE - G
1" = 1'-0"

WALL STENCILING LEGEND

IN ACCORDANCE WITH FBC 703.7, ANY PARTITION REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE ABOVE CEILING. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15FT OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30FT MEASURED HORIZONTALLY. LETTERING TO BE NO LESS THAN 3" IN HEIGHT AND 3/8" IN STROKE AND IN CONTRASTING COLORS.

PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE - COLOR: BLACK	SMOKE PARTITION
1 HR FIRE RATED BARRIER - COLOR: RED	1HR FIRE BARRIER PROTECT ALL OPENINGS
1 HR FIRE RATED SMOKE BARRIER - COLOR: RED	1HR SMOKE BARRIER PROTECT ALL OPENINGS

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

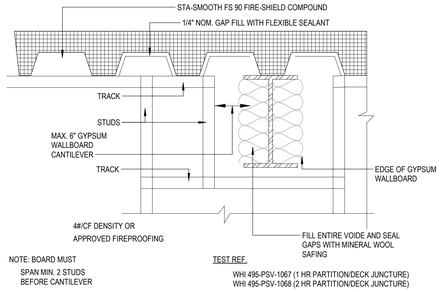
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

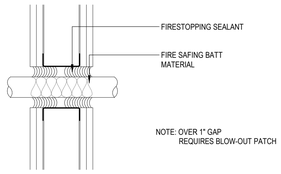
A5.70

PARTITION TYPES

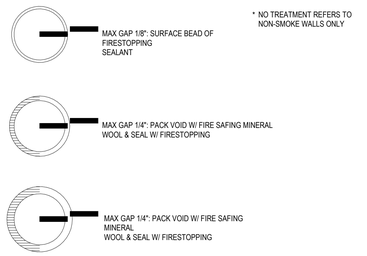
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONE HALF INCH AT 11" SHEETS



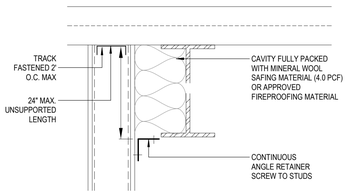
17 A5.80 TYP @ FIRE WALLS PERPENDICULAR TO METAL DECK FLUTES
1" = 1'-0"



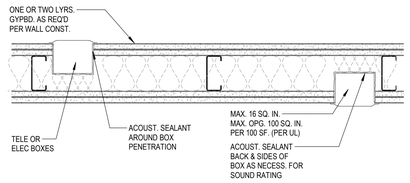
16 A5.80 MULTI-CONDUIT PENETRATION THROUGH RATED ASSEMBLY
1" = 1'-0"



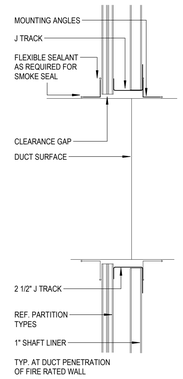
15 A5.80 PATCH AT PENETRATION
1" = 1'-0"

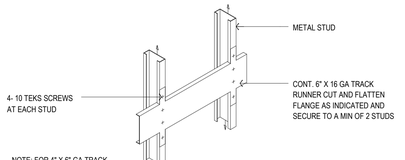


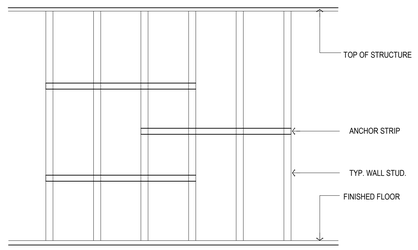
13 A5.80 WALL ADJACENT TO BEAM
1" = 1'-0"



14 A5.80 ADJACENT ELECTRICAL BOXES
1" = 1'-0"

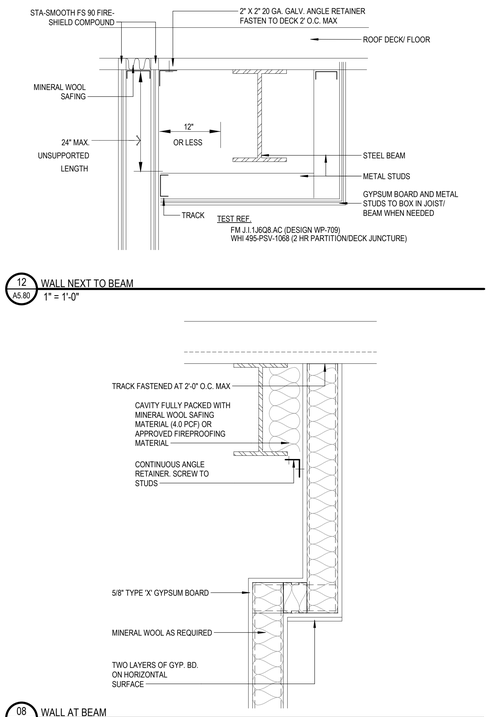




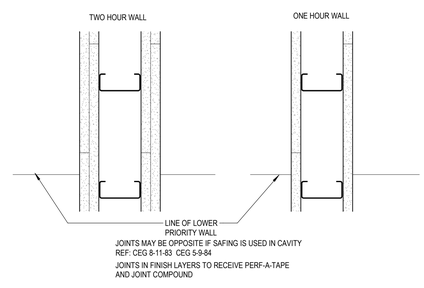


TYPICAL ANCHORAGE OF WALL HUNG EQUIPMENT CASEWORK AND GRAB BARS

09 A5.80 BLOCKING DETAIL
1" = 1'-0"

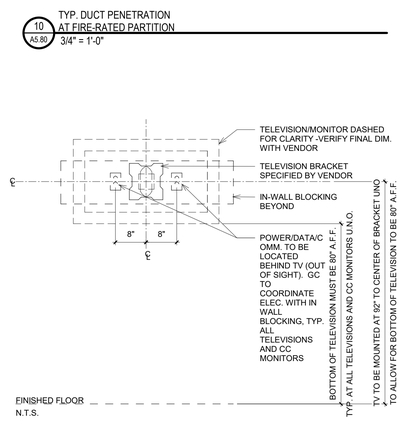


12 A5.80 WALL NEXT TO BEAM
1" = 1'-0"

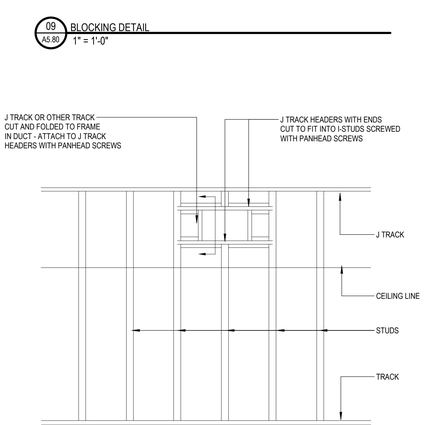


11 A5.80 GYPSUM JOINTS
1" = 1'-0"

10 A5.80 TYP. DUCT PENETRATION AT FIRE-RATED PARTITION
3/4" = 1'-0"

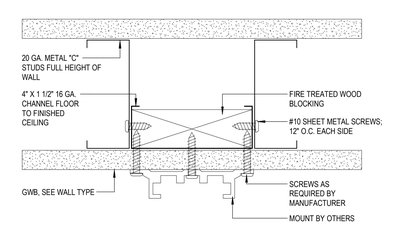


07 A5.80 TYP. CONTROL JOINT DETAIL IN RATED WALL
1" = 1'-0"

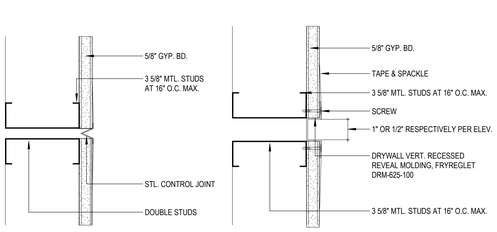


01 A5.80 F.E.C. DETAIL
1" = 1'-0"

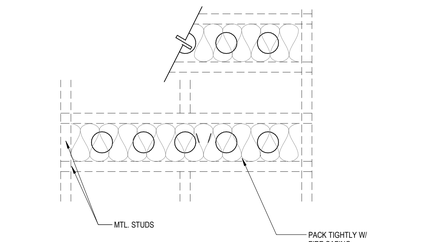
08 A5.80 WALL AT BEAM
1" = 1'-0"



02 A5.80 WALL MOUNTED TV/MONITOR BRACKET
6" = 1'-0"



04 A5.80 WALL CONTROL JOINT DETAIL
1" = 1'-0"



03 A5.80 MULTI-CONDUIT THROUGH PENETRATION
1" = 1'-0"

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A5.80

MISCELLANEOUS DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 50 SHEETS

ONLINE CERTIFICATIONS DIRECTORY

BXUV.U419
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact be with the technical service staff provided by the product manufacturer named for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and the Firestop Systems Directory for limitations on materials, substitution of equivalent materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

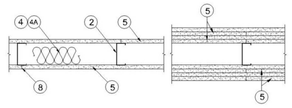
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U419

February 18, 2010

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



1. **Floor and Ceiling Runners** — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* - Floor and Ceiling Runners** — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®.

1B. **Framing Members* - Floor and Ceiling Runners** — Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperTrack™

CRACO MFG INC — SmartTrack™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper25™ Track

1D. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper205™ Track, Viper200™ Track

1E. **Framing Members* — Steel Studs** — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

1F. **Floor and Ceiling Runners** — (Not shown)—For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1G. **Framing Members* - Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1) — For use with Item 2F and 5F or 5G only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKWESTERN BUILDING SYSTEMS INC — CW ProTRAK

DIETRICH INDUSTRIES INC — DIETRICH ProTRAK

DMFCWBS L L C — ProTRAK

1H. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 5/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 in. less than assembly height.

2A. **Framing Members* - Steel Studs** — In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.

CLARKWESTERN BUILDING SYSTEMS INC — UltraSTEEL®

DIETRICH INDUSTRIES INC — UltraSTEEL®.

2B. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B & 5E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2C. **Framing Members* - Steel Studs** — (As an alternate to Item 2, For use with Item 5C) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperStud ™

CRACO MFG INC — SmartStud™

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper25™

2D. **Framing Members* - Metal Studs** — Not shown - In lieu of Item 2 — For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper205™, Viper200™

2E. **Framing Members* — Steel Studs** — In lieu of Item 2 - For Use with Item 1E- Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP,

BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

2F. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2) —For use with Item 1G and 5F or 5G only, channel shaped studs, min depth as indicated under Item 5F, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKWESTERN BUILDING SYSTEMS INC — CW ProSTUD

DIETRICH INDUSTRIES INC — DIETRICH ProSTUD

DMFCWBS L L C — ProSTUD

2G. **Framing Members* - Metal Studs** — Not shown - In lieu of Item 2 — For use with Item 1H, proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5.Only.) - Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick plywood sheathing conforming with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and tightly filling cavities as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In., Item# 2, 2E, and 2G	Min Stud Depth, In. Item 2A	No. of Layers of Piece of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 1/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC, 3/4 in. thick Type IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or, 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 8.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board*** — (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ¾ in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) spaced a max of 24 in. OC. Studs to be cut 3/8 in. to 3/4 in. less than the assembly height. Used in Nonbearing Wall table. Item 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board*** — (For Use With Item 2C) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC in the field. (Horizontal Application) - The gypsum board is to be installed on each side of the studs to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC in the field. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. The bottom track with screws spaced 8 in. OC. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CANADIAN GYPSUM COMPANY — Type SCX.

UNITED STATES GYPSUM CO — Type SCX.

USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

5E. **Gypsum Board*** — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2B, not to be used with Item 3) spaced a max of 24 in. OC. Studs to be cut 3/8 in. to 3/4 in. less than the assembly height. Used in Nonbearing Wall table. Item 1/2 in. or 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1G and 2F and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, as specified in the table below. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — Type SCX.

5G. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1G and 2F only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follow:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In. Item 2F	No. of Layers of Piece of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CANADIAN GYPSUM COMPANY — 1/2 in. thick Type C, IP-X2 or IPC-AR,; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

6. **Fasteners** — (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2). Screws spaced max 8 in. OC along vertical and bottom edges and 12 in. OC in the field. **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 5/8 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset 4 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset 4in. from layer below.

6A. **Fasteners —** (Not shown) —For use with Item 2A - Type S or S-12 screws used to attach panels to studs (Item 2A). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied horizontally:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Two layer systems applied vertically:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with additional screw spaced 12 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with additional screw spaced 12 in. OC. Screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

7. **Framing Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 0.018 in. (min bare metal thickness) galvanized steel formed into a Type RC-1 flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members may be used:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

7B. **Framing Members*** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Batts and Blankets placed in stud cavity as described in Item 4. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members*** — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

8. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips** — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

12. **Lead Discs or Tabs** — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

13. **Lead Batten Strips** — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-6 pan head steel screw at the center of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs** — (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
881 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com

© 2026 E4H - Environments for Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.81

UL ASSEMBLIES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100% ON ORIGINAL ANSI B SIZE SHEETS

UL Product iQ™

BXUVU415 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U415

December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

System A – 1 Hr.



Horizontal Section

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Type IP-X1 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X1 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR, 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

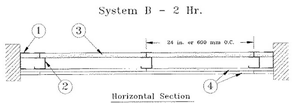
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

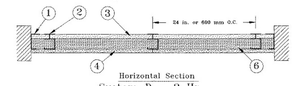
USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B – 2 Hr.



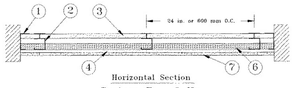
Horizontal Section

System C – 2 Hr.



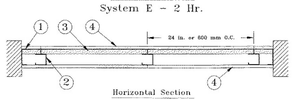
Horizontal Section

System D – 2 Hr.



Horizontal Section

System E – 2 Hr.



Horizontal Section

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C; IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C; IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

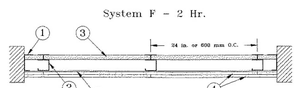
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

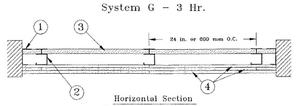
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

System F – 2 Hr.



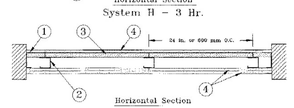
Horizontal Section

System G – 3 Hr.



Horizontal Section

System H – 3 Hr.



Horizontal Section

System I – 4 Hr.



Horizontal Section

1. **Floor, Side and Ceiling Runners** — 7" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "7" - shaped runners.

2. **Steel Studs** — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 in 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below.. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A2378

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PACIFIC COAST BUILDING PRODUCTS INC — Type IC® Insulation Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C; IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Required behind vertical joints.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Required behind vertical joints.

5. **Joint Tape and Compound —** (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud/field back flange, and the back face of the stud. Tabs required at each location where a screw that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-12-22

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2022 UL LLC."

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

exalt health

RYAN

© 2026 E4H - Environments For Health, LLC

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.82

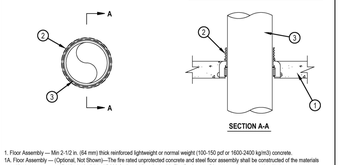
UL ASSEMBLIES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100 PERCENT ON ORIGINAL ANSI SHEETS

System No. F-A-1016

FA 1016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)	FH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)	FTH Rating — 2 Hr
W Rating — Class 1 (See Items 4B and 4B1)	L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)



SECTION A-A

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
1A. Floor Assembly – (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device** — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions. The devices are rated a max of 2 in. (51 mm) above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680N-75/2.5", CP 680N-110/4", CP 680N-160/6", CP 680-75/2.5", CP 680-110/4", CP 680-160/6", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-M 6", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6", CP 680-PX 2", CP 680-PX 3", CP 680-PX 4", CP 680-PX 6"
3. Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:
A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
E. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
F., Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular) or heavier copper pipe.

System No. F-A-1016

FA 1016

The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diam +, ++	Firestop Device
1-1/2 to 2-1/2 in (38 to 64 mm) - Other than copper pipe or tubing	CP680N-75/2.5"or CP682-75/2.5"
1-1/2 to 2 in (38 to 51 mm) - Other than copper pipe or tubing	CP 680-M 2", CP 680-P 2", CP 680-PX 2"
2 to 2-1/2 in. (51 to 64 mm) - Copper pipe or tubing	CP680N-75/2.5"or CP682-75/2.5" CP 680-M 2", CP 680-P 2", CP 680-PX 2"
2-1/2 to 3 in. (64 to 76 mm)	CP 680-M 3", CP 680-P 3", CP 680-PX 3"
4 in. (102 mm)	CP680N-110/4"or CP682-110/4" CP 680-M 4", CP 680-P 4"
6 in. (152 mm)	CP680N-160/6" CP 680-M 6", CP 680-P 6"

+ When metallic pipes of diameters smaller than those shown above are installed within the device, CP618 Firestop Putty Stick or mineral wool insulation shall be installed within the device.
++ L Rating applies only to CP 680-M and -P(X) devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.). L Rating does not apply to CP 680N and CP682 devices.
4. Fill, Void or Cavity Material* - Putty Stick(Shown) — Min 1 in. (25 mm) thickness of fill material applied within annulus flush with top surface of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick
4A. Packing Material (Not Shown) — As an alternate to Item 4, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool insulation firmly packed to the fullest extent possible within annular flush with top surface of device.
4B. Firestop Device* - Top Seal Plug — (Optional, Not Shown) - Top seal plug for use with CP 680-M 2" and CP 680-P 2" devices and nom pipe, conduit or tubing sizes of 1/2 in. (13 mm) to 2 in. (51 mm) diam. Plug is friction fit into top of firestop device (Item 2) in accordance with the manufacturer's instructions. When top seal plug is used, no putty (Item 4) or packing material (Item 4A) is required. W Rating applies only to nom 1, 1-1/4, 1-1/2 and 2 in. (25, 32, 38 and 51 mm) diam copper pipe/tube in conjunction with 2" CPS Top Seal and CP 680-M 2" or CP 680-P(X) 2" devices.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPS Top Seal Plug

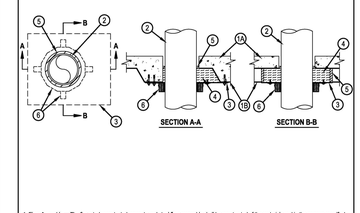
System No. F-A-1016

FA 1016

491. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Used as an alternate to the top seal plug (Item 4B) and in combination with the CP 680-M and CP 680-P(X) devices to achieve a W Rating. Module is threaded onto top of device. See Table below for sizes of device/module and penetrants covered. When water barrier module is used, a W Rating applies to the water barrier module, device and penetrant sizes specified in Table below. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

Penetrant Type (See Item 3 above)	Nom Penetrant Diam	Size of Device/Module
A, B, C, D	2"	2"
	2-1/2"	3"
	3"	3"
	4"	4"
	6"	6"
E, F	2"	2"
	3"	3"
	4"	4"
	6"	6"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



SECTION A-A SECTION B-B

1. Floor Assembly — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Normal Weight Concrete — Min 2-1/2 in. (64 mm) thickness of lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete topping as measured over the crests of the steel floor units.
B. Steel Floor and Form Units* — Composite or noncomposite 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor assembly is 8 in. (203 mm).
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1-1/2 in. (38 mm). Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR11 or SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

System No. F-A-2025

FA 2025

F Rating — 2 Hr
T Rating — 2 Hr

SECTION A-A SECTION B-B

1. Floor Assembly — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Normal Weight Concrete — Min 2-1/2 in. (64 mm) thickness of lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete topping as measured over the crests of the steel floor units.
B. Steel Floor and Form Units* — Composite or noncomposite 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor assembly is 8 in. (203 mm).
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1-1/2 in. (38 mm). Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR11 or SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

System No. F-A-2025

FA 2025

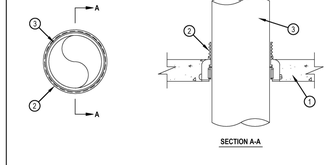
3. Metal Plate — Min 18 ga steel. Width of plate to be min 12 in. (305 mm). Length of plate (transverse to steel floor unit direction) to extend to steel floor unit valley beyond each side of core-drilled hole with a min lap of 1-1/2 in. (38 mm) on the floor unit valley at each end. Circular cutout in plate to tightly follow circumference of nonmetallic pipe with side edges of plate at least 3 in. (76 mm) from circular cutout on all sides. Slit made in plate to permit installation around the nonmetallic pipe to be located at end of plate beneath floor unit valley nearest to the circular cutout. Plate secured to valleys of floor unit using min 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long steel expansion bolts, or equivalent, in conjunction with min 3/4 in. (19 mm) diam steel washers or min 0.143 in. (4 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (36 mm) diam by 5/16 in. (2 mm) thick steel washer. As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWK-CON-1+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long KWW-BOLT 3 steel expansion anchor or Hilti X-ZIN-27 P8 5/15 powder actuated floor pin with integral nom 9/16 in. (15 mm) diam washer may be used. Fasteners to be located approx 1 in. (25 mm) from edges of plate at each corner, at each plate/valley intersection and at both sides of slit made to permit installation around nonmetallic pipe. Spacing of fasteners to exceed 10 in. (254 mm) OC.
4. Packing Material — Mineral wool batt insulation having min density of 4 pcf (64 kg/m3), firmly packed into flutes of steel floor units above metal plate (Item 3) to completely fill cavities except for min 1/4 in. (6 mm) recess on two sides of pipe to accommodate fill material (Item 5).
5. Fill, Void or Cavity Material* — Sealant — Nom 1/2 in. (13 mm) depth of fill material installed in annular space around pipe at bottom of floor following curing of steel deck. Nom 1/2 in. (13 mm) thick mineral wool batt insulation placed around the perimeter of the metal plate at the interface of the plate and steel deck. Min 1/4 in. (6 mm) thickness of fill material shall be applied to completely cover the surface of the mineral wool packing material within the flutes of the steel floor units between the metal plate and the steel floor units on both sides of pipe.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
6. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to the valley of the steel deck and to the metal plate using the anchor hooks provided with the collar. Minimum of two anchor hooks required for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, min of three anchor hooks required for 3 and 4 in. (76 and 102 mm) diam pipes, and min of four anchor hooks required for 6 in. (152 mm) diam pipes. Where the anchor hooks are beneath the valley of the steel floor unit, the anchor tabs are to be secured with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts, or equivalent, in conjunction with steel nuts and min 3/4 in. (19 mm) diam steel washers with one anchor bolt in each anchor hook. Where the anchor hooks are beneath the crest of the steel deck, the anchor hooks are to be secured to the metal plate with No. 10 by min 1/2 in. (13 mm) long self-drilling, self-tapping steel screws and washers.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 SI/1.5%, CP 643 ES/2%, CP643 WI/3%, CP 643 110/4"N or CP 643 160/6"N Firestop Collar.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
•Bearing the UL Listing Mark

System No. F-A-2053

FA 2053

F Rating — 2 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3)
W Rating — Class 1 (See Items 3, 4 and 4A)



SECTION A-A

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
1A. Floor Assembly - Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series Designs in the UL Fire Resistance Directory and as summarized below:
A. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
2. Firestop Device** — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) diam penetrant and a min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diameter	Firestop Device
1/2 in. to 2 in. (13 mm to 51 mm)	CP 680-75/2.5"N CP 680-P 2" CP 680-PX 2"
3 in. (76 mm)	CP 680-P 3" CP 680-PX 3"
3 in. to 4 in. (76 mm to 102 mm)	CP 680-110/4"N CP 680-P 4"
6 in. (152 mm)	CP 680-160/6"N CP 680-P 6"

** L Rating applies only to CP 680-P(X) devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N devices.
4. Firestop Device* — Hot Work Top Seal Plug for use with CP 680-P(X) 2" device Installed in accordance with the manufacturer's instructions. The Top Seal Plug is optional for nom 1-1/2 in. (38 mm) pipes and conduits. Top Seal Plugs are required for all pipes and conduits less than nom 1-1/2 in. (38 mm). W Rating applies only to the IPS Top Seal Plug and nom 2 in. diam penetrants, and to CPS Top Seal Plugs with nom 1/2 to 2 in. (13 to 51 mm) diam penetrants.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPS and IPS Top Seal Plugs
4A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Used as an alternate to the top seal plug (Item 4). Applies to nom 2", 3", 4" and 6" water barrier modules used in combination with the CP 680-P(X) 2" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. W Rating applies only when water barrier module is used and nom diam of penetrant equals size of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
•Bearing the UL Listing Mark

System No. F-A-2053

FA 2053

3. Through Penetrants — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor assembly. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR11 or SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Rigid Nonmetallic Conduit+ — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
The firestop devices and nonmetallic penetrants shall be sized as follows:

Nom Pipe Diameter	Firestop Device
1/2 in. to 2 in. (19 mm to 51 mm)	CP 680-75/2.5"N CP 680-P 2" CP 680-PX 2"
3 in. (76 mm)	CP 680-P 3" CP 680-PX 3"
3 in. to 4 in. (76 mm to 102 mm)	CP 680-110/4"N CP 680-P 4"
6 in. (152 mm)	CP 680-160/6"N CP 680-P 6"

++ L Rating applies only to CP 680-P(X) devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N devices.
4. Firestop Device* — Hot Work Top Seal Plug for use with CP 680-P(X) 2" device Installed in accordance with the manufacturer's instructions. The Top Seal Plug is optional for nom 1-1/2 in. (38 mm) pipes and conduits. Top Seal Plugs are required for all pipes and conduits less than nom 1-1/2 in. (38 mm). W Rating applies only to the IPS Top Seal Plug and nom 2 in. diam penetrants, and to CPS Top Seal Plugs with nom 1/2 to 2 in. (13 to 51 mm) diam penetrants.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPS and IPS Top Seal Plugs
4A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Used as an alternate to the top seal plug (Item 4). Applies to nom 2", 3", 4" and 6" water barrier modules used in combination with the CP 680-P(X) 2" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. W Rating applies only when water barrier module is used and nom diam of penetrant equals size of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
•Bearing the UL Listing Mark

System No. F-A-2058

FA 2058

F Rating — 2 Hr
T Rating — 0 Hr

SECTION A-A

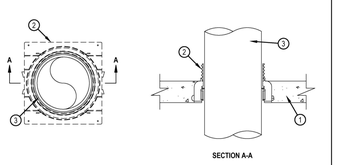
1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Max diam of opening is 4 in. (102 mm).
1A. Floor Assembly — (Optional — Not Shown) — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Max diam of opening is 4 in. (102 mm).
2. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 3/8 in. and max 1 in. (9.5 to 25 mm). Pipe to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Fill, Void or Cavity Materials* — Min 2-1/2 in. (64 mm) thickness of sealant applied within annular space, flush with top surface of floor. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. F-A-2065

FA 2065

F Rating — 2 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 4)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 4)
W Rating — Class 1 (See Items 2A and 3)



SECTION A-A

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device** — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) projection above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-75/2.5"N, CP 680-110/4"N, CP 680-160/6"N, CP 680-75/2.5", CP 680-110/4", CP 680-160/6", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-M 6", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6", CP 680-PX 2", CP 680-PX 3", CP 680-PX 4", CP 680-PX 6"
2A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Applies to nom 2", 3", 4" and 6" water barrier modules used in combination with the CP 680-P(X) 2", CP 680-P(X) 3", CP 680-P 4" and CP 680-P 6" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. W Rating applies only when water barrier module is used and nom diam of penetrant equals size of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module
2B. Firestop Device* — (Optional, Not shown) - Alternate to Water Barrier Module (Item 2A). Top Seal Plug for use with CP 680-P(X) 2" device Installed in accordance with the manufacturer's instructions. W Rating applies only to the IPS Top Seal Plug with nom 2 in. (51 mm) diam penetrants.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — IPS Top Seal Plugs

System No. F-A-2065

FA 2065

3. Through Penetrants — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Fire Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
The firestop device and nonmetallic penetrant shall be sized as follows:

Nom Pipe Diameter	Firestop Device
1-1/2 in. to 2 in. (38 to 51 mm)	CP 680-75/2.5"N CP 680-P 2" CP 680-PX 2"
3 in. (76 mm)	CP 680-P 3" CP 680-PX 3"
4 in. (102 mm)	CP 680-110/4"N CP 680-P 4"
6 in. (152 mm)	CP 680-160/6"N CP 680-P 6"

** L Rating applies only to CP 680-P(X) devices. L Rating applies only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.). L Rating does not apply to CP 680N devices.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. F-A-2213

FA 2213

F Ratings — 2 and 3 Hr (See Items 1, 1A and 4E)
T Ratings — 0, 1/4 and 1/2 Hr (See Items 2, 2A and 4)
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3A)
L Rating At 400 F — 4 CFM/sq ft (See Item 3A)
W Rating — Class I (See Item 3A)

SECTION A-A

1. Floor Assembly — Min 2-1/2 in. (64 mm) to max 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. When concrete thickness is min 4-1/2 in. (114 mm), F Rating is 3 hr.
1A. Floor Assembly — (Optional, Not Shown) — The fire rated concrete and steel deck floor assembly shall be constructed of the materials and in the manner specified in the individual D700, D800 or D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) to max 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete, as measured over crest of fluted steel deck. When concrete topping thickness is min 4-1/2 in. (114 mm), F Rating is 3 hr.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Metallic Sleeve — (Optional, Not Shown) -Nom 4, 5 or 6 in. (102, 127 or 152 mm) diam Schedule 10 (or heavier) steel sleeve cast or grouted into floor assembly, flush with floor surfaces. When metallic sleeve is used, T Rating is 0 Hr.
2A. Sheet Metal Sleeve — (Optional, Not Shown) — Nom 4, 5, 6 or 9 in. (102, 127, 152 or 229 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and flush with the top surface of the concrete floor. When sheet metal sleeve is used, T Rating is 0 Hr.

System No. F-A-2213

FA 2213

3. Firestop Device* — Drop-in firestop device installed in core-drilled or skewed opening in concrete floor assembly in accordance with accompanying installation instructions. The firestop device flange should be secured to the top surface of the floor with three 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or screw anchors (installed in a triangular fashion through holes provided). As alternates to the anchors specified above, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWK-CON 5+ concrete screw anchor, Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (45 mm) long KWW-BOLT 3 steel expansion anchor or Hilti 1/4 in. (6 mm) by 3/4 in. (19 mm) long Metal HIT Anchor may be used. In addition, for nom 2 in. (51 mm), 3 in. and 4 in. (102 mm) firestop devices, four 11/16 in. (18 mm) long Hilti X-GH P18 MX steel fasteners may be installed through the steel flange, two on each side. The firestop devices shall be installed as detailed in the following table:

Core Hole or Sleeve Diam, In. (mm)	Firestop Device	Nom Diam of Through Penetrant, In. (mm)
4 (102)	CFS-DID 2"MD	2 (51) or smaller+
5 (102)	CFS-DID 3"MD	3 (76)
6 (152)	CFS-DID 4"MD	4 (102)
9 (229)	CFS-DID 6"MD	6 (152)

+ For pipe smaller than nom 2 in. (51 mm) diam, Adapter and Top Seal Plug is required to be used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-DID 2"MD, CFS-DID 3"MD, CFS-DID 4"MD, CFS-DID 6"MD
3A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Used in combination with the CFS-DID device and supplied by device manufacturer. Module is threaded onto top of device.
W Rating and L Rating apply only when water barrier module is used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module
4. Through Penetrant — One nonmetallic pipe to be installed within the firestop device. Pipe to be rigidly supported on both sides of floor assembly. The following types of pipe may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
B. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
E. Polypropylene (PP) Pipe — Nom 2 in. (63 mm OD) diam (or smaller) Aquatherm Greenpipe SDR 11 PP-R pipe for use in closed (process or supply) piping systems. The F Rating for the firestop system is limited to 2 Hr when the penetrant is used.
T Rating is 1/4 hr when Pipe D is used.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. F-A-5015

FA 5015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1/2 and 3/4 Hr (See Item 3)	FT Rating — 1/2 and 3/4 Hr (See Item 3)
	FH Rating — 2 Hr
	FTH Rating — 1/2 and 3/4 Hr (See Item 3)

SECTION A-A

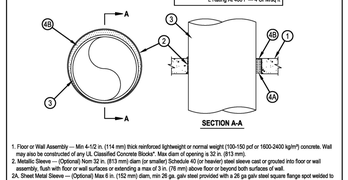
1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Steel Floor and Form Units* — Composite or non-

THE DRAWING ABOVE IS EXACTLY ONE HOUR AND 20 MINUTES AT 22 DEGREES

System No. C-AJ-1226

CAJ 1226

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. (813 mm).
2. Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve — (Optional) Max 6 in. (152 mm) diam, min 26 ga. galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.

3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and perpendicular of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
   F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

System No. C-AJ-1226

CAJ 1226

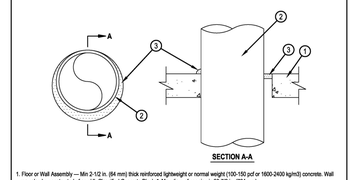
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-1291

CAJ 1291

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



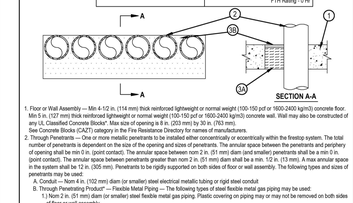
1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 30-7/8 in. (784 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrant — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and perphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
3. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-1513

CAJ 1513

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Rating - 2 Hr
	FTH Rating - 0 Hr



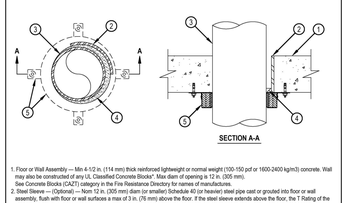
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor. Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 8 in. (203 mm) by 30 in. (763 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One or more metallic penetrants to be installed either concentrically or eccentrically within the firestop system. The total number of penetrants is dependent on the size of the opening and sizes of penetrants. The annular space between the penetrants and perpherry of opening shall be min 0 in. (point contact). The annular space between nom 2 in. (51 mm) diam (and smaller) penetrants shall be a min 0 in. (point contact). The annular space between penetrants greater than nom 2 in. (51 mm) diam shall be a min. 1/2 in. (13 mm). A max annular space in the system shall be 12 in. (305 mm). Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
   A. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or rigid steel conduit.
   B. Through-Penetrating Product* — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:
      1.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      OMEGA FLEX INC
      2.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on pipling may or may not be removed on both sides of floor or wall assembly.
      GASTITE, DIV OF TITEFLEX
      3.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on pipling may or may not be removed on both sides of floor or wall assembly.
      WARD MFG LLC
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m3) mineral wool batt insulation tightly packed into the opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material - Sealant* — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor or both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-2109

CAJ 2109

F Ratings — 2 and 3 Hr (See Item 3)
T Ratings — 0, 2 and 3 Hr (See Items 2 and 3)
W Rating - Class 1 (See Items 2, 3 and 4)
L Rating at Ambient — Less Than 1 CFM/sq ft (See Item 4)
L Rating at 400 F — Less Than 1 CFM/sq ft (See Item 4)



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12 in. (305 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) — Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
3. Through Penetrants — One nonmetallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes or tubing may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper tubing.
   C. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Tube Insulation — Plastics — Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Nom 1 in. (25 mm) thick AB/PVC flexible foam insulation may be used for max 2 hr F and FT Ratings when max 3 in. (76 mm) diam pipe or tubing is used. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When max annular space exceeds 1-1/2 in. (38 mm) the F and FH Ratings are 2 hr.
See Plastics+ (QMFZ) Category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
5. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When max annular space exceeds 1-1/2 in. (38 mm) the min thickness of fill material is 1/2 in. (13 mm).
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-2109

CAJ 2109

Pipe Type	Nom Pipe Diam, In. (mm)	F Rating Hr
PVC, CPVC	Greater than 6 (152)	2
PVC, CPVC, ABS, FRPP	6 (152) or smaller	3
Pipe Type	**Nom Pipe Diam, In. (mm)**	**T Rating Hr**
PVC, CPVC, ABS, FRPP	1-1/2, 2, 3 (38, 51, 76)	2
PVC, CPVC, ABS, FRPP	4 (102)	3
PVC, CPVC, ABS+, FRPP	6 (152)	3
PVC, CPVC	Greater than 6 (152)	0
ABS++	6 (152)	0

+ Indicates solid core ABS only.
++ Indicates cellular core ABS only.

4. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top or bottom surface of floor or both surfaces of wall. Sealant is optional for pipes having a max diam of 6 in. (152 mm) in unsleeved openings. For systems with W Rating and/or L Rating, min 12 in. (13 mm) thickness of CP 6015, CFS-S SIL GG, CFS-S SIL SL (floors only) Sealant shall be applied within the annulus, flush with top or bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant, CP 6015 Sealant, CFS-S SIL GG, CFS-S SIL SL, CFS-S SIL SL (floors only) Sealant

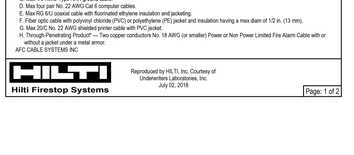
4A. Packing Material — (Not Shown) — Min 12 in. (13 mm) thickness of 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into annular space and recessed from the top surface of floor to accommodate the required thickness of fill material. Required only when CP 604 Sealant is used.

5. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and locked around the pipe and secured to underside of floor or both sides of wall using the anchor hooks provided with the collar. Minimum two anchor hooks for nom 1-1/2 and 2 in. (38 and 51 mm) diam pipes. Minimum three anchor hooks required for nom 3 and 4 in. (76 and 102 mm) diam pipes. Minimum four anchor hooks required for nom 6 in. (152 mm) diam pipes. Minimum ten anchor hooks required for nom 8 in. (203 mm) diam pipes. Minimum twelve anchor hooks required for nom 10 in. (254 mm) diam pipes. The anchor hooks are to be secured with nom 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteiners utilizing a 1-7/16 in. (37 mm) diam by 1/16 in. (1.6 mm) thick steel washer. As alternates to the anchors specified above, HBI 1/4 in. (6 mm) diam by 1-3/4 in. (32 mm) long KWIK-CON II+ concrete screw anchor, HBI 1/4 in. (6 mm) diam by 1-3/4 in. (45 mm) long KWIK-BOLT 3 steel expansion anchor or HBI KONI 27 PB 5/15 powder actuated fastener shall be permitted to be used with integral nom 5/16 in. (15 mm) diam steel washer.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643N SOLID, CP 643N 50/1.5", CP 643N 80/3", CP 643N 110/4", CP 643 16/06", CP 644-2008* US or CP 644-2507* US Firestop Collar
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-2167

CAJ 2167

F Rating — 2 Hr
T Rating — 0 Hr



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any mfr 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Opening in floor or wall to be max 3 in. (76 mm) diam for 2 in. (51 mm) device and max 5 in. (127 mm) diam for 4 in. (102 mm) device.
See Concrete Blocks (CAZT) and Precast Concrete Units (CFTY) categories in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space between pipe and edge of opening to be min 0 in. (point contact) and max 5/8 in. (16 mm). Pipe to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used.
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SCR13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Fill, Void or Cavity Material* — Sealant — Min 2 in. (51 mm) thickness of fill material applied within the annulus, flush with bottom surface of floor or with both surfaces of wall. At point contact location, min 1/2 in. (13 mm) diam bead of sealant applied at pipe/concrete interface on bottom surface of floor or both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-3095

CAJ 3095

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0, 1/2 and 3/4 Hr (See Item 3)	FT Ratings — 0, 1/2 and 3/4 Hr (See Item 3)
	FH Rating — 3 Hr
	FTH Ratings — 0, 1/2 and 3/4 Hr (See Item 3)



1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper conductor power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T, FT and FTH Rating is 0 hr.
   B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XLPE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T, FT and FTH Rating is 1/2 hr.
   C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T, FT and FTH Rating is 0 hr.
   D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-connector power cable is used, T Rating is 0 hr.
   E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T, FT and FTH Rating is 3/4 hr.
   F. Multiple fiber optic communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T, FT and FTH Rating is 3/4 hr.
   G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. When MC cable is used, T, FT and FTH Rating is 0 hr.
   AFC CABLE SYSTEMS INC

System No. C-AJ-3095

CAJ 3095

H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. When SER cable is used, T, FT and FTH Rating is 0 hr.
I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. When coaxial cable is used, T Rating is 0 hr.
J. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other type of cable. When Fire Resistive Cables *are used, T, FT and FTH Rating is 0 hr.
K. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
4. Packing Material — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall to accommodate the fill material. If the steel sleeve (Item 2) extends above the top of the floor, the packing material shall be flush with the bottom surface of the floor.
5. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-3216

CAJ 3216

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 2)	FT Ratings — 0 and 1/2 Hr (See Item 2)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 1/2 Hr (See Item 2)



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m³) concrete floor or concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Diameter of opening is nom 2 or 4 in. (51 or 102 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) Nom 2 or 4 in. (51 or 102 mm) diam Schedule 5 (or heavier) steel sleeve or rigid steel conduit or electrical metallic tubing cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending max 2 in. (51 mm) above top surface of floor or both surfaces of wall.
When sleeve extends above top surface of floor or either surface of wall, the T, FT and FTH Ratings are 0 Hr
2A. Nonmetallic Sleeve — (Optional) Nom 2 or 4 in. (51 or 102 mm) diam Schedule 40 (or heavier) polyvinyl chloride (PVC) sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of bunded cables in opening to be max 60 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the perphery of opening to be min 0 in. (point contact) to max 3 in. (76 mm). Cables to be tightly bundled together and rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. Max 750 kcmil single copper conductor power cable with thermoplastic insulation and PVC jacket.
   C. Max 7/C No. 12 AWG multiconductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diameter of 1/2 in. (13 mm).
   E. Max 3/C No. 12 AWG with bare aluminum ground, PVC insulated steel Metal-Clad cable.
   F. Max 1 in. diam metal clad TDK cable with PVC jacket.
   G. Max 2/0 aluminum SER cable.
   H. Type RG 59/U coaxial cable with polyethylene (PE) insulation and PVC jacket.
4. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – Plug — Nom 2, 2.5 or 4 in. (51, 63 or 102 mm) plug sized for the sleeve/opening firmly installed within the sleeve or opening such that the outer circumference of the dome-shaped plug is flush with the top surface of the floor or sleeve or both surfaces of the wall or sleeve. The fill material is to be applied from the top surface of the floor or both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug 2.5 or 4 in. or CFS-PL Firestop Plug 2 or 4 in.
   B. Fill, Void or Cavity Material* - Putty — (Not shown, optional) - Putty may be forced into interstices of cables to max extent possible.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick
*Bearing the UL Classification Mark

System No. C-AJ-3283

CAJ 3283

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 2)	FT Ratings — 0 and 1/2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Device (See Item 2)	FH Rating — 2 Hr
L Rating At 400° F — Less Than 1 CFM/Device (See Item 2)	FTH Ratings — 0 and 1/2 Hr (See Item 2)
	L Rating At Ambient — Less Than 5.1 L/s/Device (See Item 2)
	L Rating At 400°F — Less Than 5.1 L/s/Device (See Item 2)



1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening in floor or wall to be max 3 in. (76 mm) diam for 2" device and max 5 in. (127 mm) diam for 4" device.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Floor Assembly — (Not Shown) — As an alternate to item 1, fire-rated unprotected concrete and steel floor assembly may be used. Floor assembly to be constructed of the steel floor deck units and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
   B. Steel Floor and Form Units — Composite or noncomposite max 3 in. (76 mm) deep fluted galv units as specified in the individual Floor-Ceiling design. Opening in floor or wall to be max 3 in. (76 mm) diam for 2" device and max 5 in. (127 mm) diam for 4" device.

System No. C-AJ-3283

CAJ 3283

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 2)	FT Ratings — 0 and 1/2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Device (See Item 2)	FH Rating — 2 Hr
L Rating At 400° F — Less Than 1 CFM/Device (See Item 2)	FTH Ratings — 0 and 1/2 Hr (See Item 2)
	L Rating At Ambient — Less Than 5.1 L/s/Device (See Item 2)
	L Rating At 400°F — Less Than 5.1 L/s/Device (See Item 2)

2. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of floor or wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max four pair No. 22 AWG Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 25/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product* — Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC

Max Cable Fill	Cable Type	L Rating, CFM/Ft² (L/s/m²)		L Rating, CFM (L/s/m) Device	
		Ambient	400°F	Ambient	400°F
0%	—	—	1 (5.1)	2 (10.2)	Less than 1 (5.1)	Less than 1 (5.1)
100%	Any cables (Item 2) in any combination	7 (35.7)	7 (35.7)	Less than 1 (5.1)	Less than 1 (5.1)

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, tightly twisted inner fabric smoke seal, flanges and gasket material (not shown). Firestop device to be installed in accordance with the accompanying installation instructions. Device slid into floor or wall such that ends project an equal distance from the approximate centerline of the assembly. The annular space between the device and the perphery of the opening shall be min 0 in. (point contact). Device provided with flange(s) that are spun clockwise onto device threads, over gasket material butting tightly to top side of floor or both sides of floor or wall. In floors, when one device flange is used, device flange to be secured to floor with min two 1-1/4 in. (32 mm) long masonry screws or anchors. As an alternate to gasket material, sealant (item 4B) may be used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CP 653 4" BA ILS and CFS-SL GA L ILS Speed Sleeve

4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into annular space between firestop device and opening as a permanent form. Packing material to be installed flush with bottom of floor and recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — As an alternate to gasket material (see Item 3), min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For L Ratings when sealant is used, an additional 1/4 in. (6 mm) bead of fill material is required at the device/floor or device/wall interface on top side of floor or both sides of wall assembly prior to installing flange(s).
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Sealant, CP 606 Sealant, CFS-S SIL GG, CFS-S SIL SL (floors only) or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. C-AJ-3285

CAJ 3285

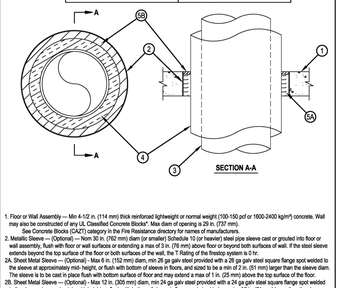
ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0, 1-1/2 and 3 Hr (See Item 2)	FT Ratings — 0, 1, 1-1/2 and 3 Hr (See

THE DRAWING ABOVE IS EXACTLY ONE INCH LONG AT 30 DEGREES FROM HORIZONTAL AS SHOWN

System No. C-AJ-5091

CAJ 5091

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)	FT Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 and 1 Hr (See Items 2 and 4)
	L Rating At Ambient —4 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) long (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
2A. Sheet Metal Sleeve — (Optional) - Min 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 13, 2015

Page: 1 of 2

System No. C-AJ-5091

CAJ 5091

3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick flexible cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the perimeter of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.
See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4A. Pipe Covering — (Not Shown) — As an alternate to item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).
5. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

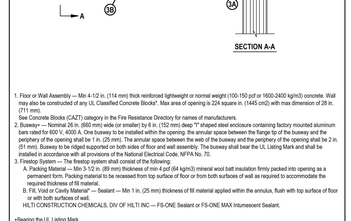
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 13, 2015

Page: 2 of 2

System No. C-AJ-6017

CAJ 6017

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating - 3 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Rating - 3 Hr
	FTH Rating - 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 224 sq.ft. (1445 cm2) with max dimension of 28 in. (711 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Busway — Nominal 26 in. (650 mm) wide (or smaller) by 6 in. (152 mm) deep "I" shaped steel enclosure containing factory mounted aluminum bars rated for 600 V, 4000 A. One busway to be installed within the opening; the annular space between the flange tip of the busway and the periphery of the opening shall be 1 in. (25 mm). The annular space between the web of the busway and the periphery of the opening shall be 2 in. (51 mm). Busway to be ridged supported on both sides of floor and wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA No. 70.
3. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 5-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.
*Bearing the UL Listing Mark
*Bearing UL Classification Mark

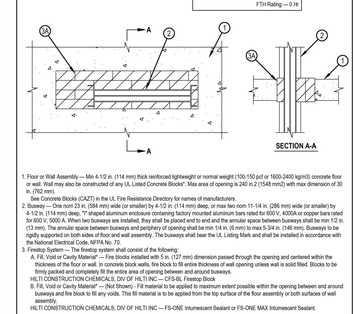
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 14, 2015

System No. C-AJ-6042

CAJ 6042

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or wall. Wall may also be constructed of any UL Listed Concrete Blocks*. Max area of opening is 240 in.2 (1548 mm2) with max dimension of 30 in. (762 mm).
See Concrete Blocks (CAZT) in the UL Fire Resistance Directory for names of manufacturers.
2. Busway — One nom 23 in. (584 mm) wide by 4-1/2 in. (114 mm) deep, or max nom 11-1/4 in. (286 mm) wide (or smaller) by 4-1/2 in. (114 mm) deep, "I" shaped aluminum enclosure containing factory mounted aluminum bars rated for 600 V, 4000A or copper bars rated for 600 V, 5000 A. When two busways are installed, they shall be placed end to end and the annular space between busways shall be min 1/2 in. (13 mm). The annular space between busways and periphery of opening shall be min 1/4 in. (6 mm) to max 5-3/4 in. (146 mm). Busways to be rigidly supported on both sides of floor and wall assembly. The busways shall bear the UL Listing Mark and shall be installed in accordance with the National Electrical Code, NFPA No. 70.
3. Firestop System — The firestop system shall consist of the following:
A. Fill, Void or Cavity Material* — Fire blocks installed with 5 in. (127 mm) dimension passed through the opening and centered within the thickness of the floor or wall. In concrete block walls, fire block to fill entire thickness of wall opening unless wall is solid filled. Blocks to be firmly packed and completely fill the entire area of opening between and around busways.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-BL Firestop Block
B. Fill, Void or Cavity Material* — (Not Shown) - Fill material to be applied to maximum extent possible within the opening between and around busways and fire block to fill any voids. This fill material is to be applied from the top surface of the floor assembly or both surfaces of wall assembly.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Intumescent Sealant or FS-ONE MAX Intumescent Sealant.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

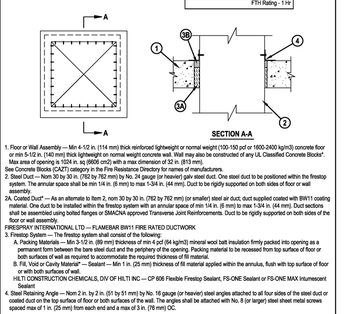
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
April 26, 2017

System No. C-AJ-7051

CAJ 7051

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating — 3 Hr
T Rating - 1 Hr	FT Rating - 1 Hr
	FH Rating - 3 Hr
	FTH Rating - 1 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5-1/2 in. (140 mm) thick lightweight on normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 1024 in. sq (6606 cm2) with a max dimension of 32 in. (813 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Duct — Nom 30 by 30 in. (762 by 762 mm) by No. 24 gauge (or heavier) galv steel duct. One steel duct to be positioned within the firestop system. The annular space shall be min 1/4 in. (6 mm) to max 1-3/4 in. (44 mm). Duct to be rigidly supported on both sides of floor or wall assembly.
2A. Coated Duct* — As an alternate to Item 2, nom 30 by 30 in. (762 by 762 mm) (or smaller) steel air duct; duct supplied coated with BW11 coating material. One duct to be installed within the firestop system with an annular space of min 1/4 in. (6 mm) to max 1-3/4 in. (44 mm). Duct sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements. Duct to be rigidly supported on both sides of the floor or wall assembly.
FIRESPRAY INTERNATIONAL LTD — FLAMEBAR BW11 FIRE RATED DUCTWORK
3. Firestop System — The firestop system shall consist of the following:
A. Packing Materials — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form between the bare steel duct and the periphery of the opening. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
4. Steel Retaining Angle — Nom 2 in. by 2 in. (51 by 51 mm) by No. 16 gauge (or heavier) steel angles attached to all four sides of the steel duct or coated duct on the top surface of floor or both surfaces of wall, for the steel duct. The angles shall be attached with No. 8 (or larger) steel sheet metal screws spaced max of 1 in. (25 mm) from each end and a max of 3 in. (76 mm) OC.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

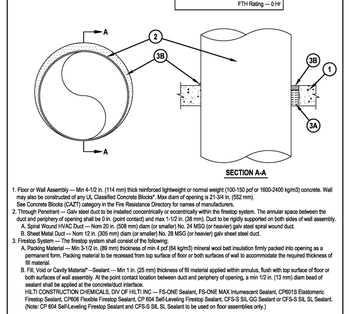
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
October 27, 2017

System No. C-AJ-7084

CAJ 7084

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 21-3/4 in. (552 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (point contact) and max 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of wall assembly.
B. Sheet Metal Duct — Nom 20 in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv sheet steel round duct.
3. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* – Sealant — Min 1 in. (25 mm) thickness of fill material applied within annulus, flush with top surface of floor or with both surfaces of wall. At the point contact installation between duct and periphery of opening, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the concentric/duct interface.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant, CP 604 Self-Leveling Firestop Sealant, CFS-S SIL GG Sealant or CFS-S SIL SL Sealant. (Note: CP 604 Self-Leveling Firestop Sealant and CFS-S SIL SL Sealant to be used on floor assemblies only.)
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 26, 2015

System No. C-AJ-7111

CAJ 7111

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 7.1 sq ft (0.66 m2) with max dimension of 32 in. (813 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Duct — Max 60 by 36 in. (1524 by 914 mm) steel duct. Steel gauge of duct shall conform with SMACNA requirements. One duct to be installed concentrically or eccentrically within the firestop system. The annular space between steel duct and edges of opening shall be min 2 in. (51 mm) to max 8 in. (152 mm) when max duct dimension is 28 in. (711 mm). Otherwise, max annular space is 2-1/2 in. (64 mm). Steel duct to be rigidly supported on both sides of floor or wall assembly.
3. Batts and Blankets* — Nom 2 in. (51 mm) thick light density (min 3/4 pcf or 12 kg/m3) glass fiber blanket insulation jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with foil-scrim-kraft tape. Nom annular space between insulated steel duct and periphery of opening to be point contact to max 1/2 in. (13 mm) prior to installation of packing material (Item 4A). When max duct dimension is 28 in. (711 mm), max annular space between insulated steel duct and periphery of opening is 4 in. (102 mm) prior to installation of packing material (Item 4A).
See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into annular space such that glass fiber blanket insulation on steel duct is compressed to a maximum overall thickness of 12 in. (13 mm). Packing material to be recessed from top surface of floor and from both surfaces of wall to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor and both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
C. Retaining Angles — Min 2 by 2 in. (51 by 51 mm) No. 16 ga (or heavier) galv steel angles. Angles attached to all four sides of steel duct, through glass fiber blanket insulation, on top surface of floor or on both surfaces of wall with No. 10 (or larger) steel sheet metal screws spaced 1 in. (25 mm) from each end and max 4 in. (102 mm) OC.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 14, 2015

System No. C-AJ-7145

CAJ 7145

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 1-3/4 Hr	FT Rating — 1-3/4 Hr
	FH Rating — 2 Hr
	FTH Rating — 1-3/4 Hr

SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 17.8 ft2 (1.65 m2) with max dimension of 64 in. (1.6 m).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Duct — Max 60 by 36 in. (1524 by 914 mm) steel duct. Steel gauge of duct shall conform with SMACNA requirements. One duct to be installed concentrically or eccentrically within the firestop system. The annular space between steel duct and edges of opening shall be min 2 in. (51 mm) to max 8 in. (152 mm) when max duct dimension is 28 in. (711 mm). Otherwise, max annular space is 2-1/2 in. (64 mm). Steel duct to be rigidly supported on both sides of floor or wall assembly.
3. Batts and Blankets* — Nom 2 in. (51 mm) thick light density (min 3/4 pcf or 12 kg/m3) glass fiber blanket insulation jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with foil-scrim-kraft tape. Nom annular space between insulated steel duct and periphery of opening to be point contact to max 1/2 in. (13 mm) prior to installation of packing material (Item 4A). When max duct dimension is 28 in. (711 mm), max annular space between insulated steel duct and periphery of opening is 4 in. (102 mm) prior to installation of packing material (Item 4A).
See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into annular space such that glass fiber blanket insulation on steel duct is compressed to a maximum overall thickness of 12 in. (13 mm). Packing material to be recessed from top surface of floor and from both surfaces of wall to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor and both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
C. Retaining Angles — Min 2 by 2 in. (51 by 51 mm) No. 16 ga (or heavier) galv steel angles. Angles attached to all four sides of steel duct, through glass fiber blanket insulation, on top surface of floor or on both surfaces of wall with No. 10 (or larger) steel sheet metal screws spaced 1 in. (25 mm) from each end and max 4 in. (102 mm) OC.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 13, 2015

System No. C-AJ-8099

CAJ 8099

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Ratings — 0 and 3/4 Hr (See Item 2)	FT Ratings — 0 and 3/4 Hr (See Item 2)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 3/4 Hr (See Item 2)

SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5 in. (127 mm) reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. Max area of square, rectangular or circular opening is 192 sq in. (1239 cm2) with max dimension of 24 in. (61 cm). When Precast Concrete Unit floors are used, max area of square, rectangular or circular opening is 49 sq in. (316 cm2) with max dimension of 7 in. (17.8 cm).
See Concrete Blocks (CAZT) and Precast Concrete Units (QFTX) categories in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrant — One or more pipes or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacings between the pipes are maintained. The separation between cable bundle, tubes and insulated tubes shall be a min 12 in. (13 mm) to max 3-1/8 in. (79 mm). The annular space between penetrants and the periphery of opening shall be a min 1/2 in. (13 mm) to max 5 in. (127 mm). Pipes or tubes to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubes may be used:
A. Copper Tubing — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.
B. Copper Pipe — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.
C. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
D. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
E. Conduit — Nom 3 in. (76 mm) diam (or smaller) steel electric tubing (EMT) or steel conduit.
F. Flexible Steel Conduit — Nom 1 in. (25 mm) diameter (or smaller) flexible steel conduit.
See Flexible Metal Conduit (DXUZ) category in the Electrical Construction Material Directory for names of manufacturers.
G. Through Penetrating Product* — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 15, 2015

Page: 1 of 2

System No. C-AJ-8099

CAJ 8099

1.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC
2.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX
3.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG L. C.
The hourly T Rating is 3/4 hr when a pipe or tube with fiber-glass insulation is used, or 0 hr when a pipe or tube, a pipe or tube with AB/PVC insulation or a cable bundle is used. The T Rating is 0 hr when metallic penetrants without pipe insulation are used.
3. Pipe Insulation — (Optional)—The following types of pipe insulation may be used with metallic penetrants (Items 2A, 2B, 2C, 2D and 2F):
A. Pipe Covering* — Nom 1 in. (25 mm) thick (or thinner) hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classifica tion Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
B. Tube Insulation-Plastics++ — Nom 3/4 in. (19 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.
See Plastics++ (QMFZ) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. Cables — Max 1 in. (25 mm) diam cable bundle of cables installed within the opening and rigidly supported on both sides of floor or wall assembly. The space between the cables and periphery of the opening shall range from nom 2 in. (51 mm) to max 4 in. (102 mm). Any combination of the following types and sizes of metallic conductor of fiber optic cable may be used:
A. Max 500 kcmil single copper conductor with 600 V rated cross-linked polyethylene insulation and polyvinyl chloride (PVC) jacket.
B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, PVC insulated steel Metal-Clad cable.
5. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material. When Precast Concrete Unit floors are used, packing material shall be installed at a thickness equal to the thickness of the floor minus 1/2 in. (13 mm), flush with bottom surface of floor.
B. Fill Void or Cavity Materials* - Sealant — Min 1/2 in. (51 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.
+++Bearing the UL Recognized Component Marking
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
+Bearing the UL Listing Mark

Hilti Firestop Systems

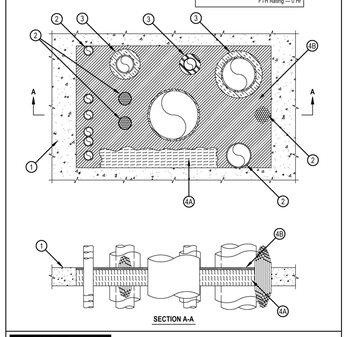
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
January 15, 2015

Page: 2 of 2

System No. C-AJ-8143

CAJ 8143

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor. Min 3 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 1440 in.2 (9,290 cm2) with a max dimension of 48 in. (1219 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One cable tray and one or more pipes, tubes or cable bundles may be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces are maintained. The annular space between cable tray and all other penetrants shall be min 3 in. (76 mm). The annular space between individual cables and cable bundles shall be a min 12 in. (13 mm). The annular space between individual cables and cable bundles and other penetrants shall be a min 12 in. (13 mm) except that a min 2 in. (51 mm) shall be maintained between the cables and copper pipes and tubes greater than a nom 3 in. (76 mm) diam and steel and iron pipes and conduits greater than a nom 4 in. (102 mm) diam. The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 2 in. (51 mm). The annular space between nom 3 in (76mm) diam (and smaller) copper pipes and tubes and between nom 4 in (102mm) diam (and smaller) steel and iron pipes and conduits shall be min 1/2 in. (13 mm). The annular space between nom 2 in. (51 mm) diam (and smaller) metallic pipes and conduits shall be min 0 in. (point contact). The annular space between nonmetallic penetrants shall be min 1/2 in. (13 mm). The annular space between nonmetallic penetrants and other penetrants shall be zero (0 in. (51 mm)The annular space between insulated penetrants, nonmetallic penetrants, or the cable tray and the periphery of opening shall be min 1/2 in. (13 mm). The annular space between all other penetrants and the periphery of opening shall be min 0 in. (point contact). A max annular space in the system shall be 12 in. (305 mm). Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used.
A. Metallic Pipes — The following types of metallic pipes, tubes or conduits may be used:
1. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
2. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
4. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
5. Conduit — Nom 4 in. (102 mm) diam (or smaller) electric metallic tubing (EMT) or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
B. Cables Bundles — Max 4 in. (102 mm) diam tightly bundled cables. Any combination of the following types and sizes of cables may be used:
1. Max 500 kcmil single copper or aluminum conductor cables with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
2. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
3. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
4. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.
5. Max 3/C No. 12 AWG steel clad cable with copper conductors and PVC insulation material.
C. Individual Cables — Any of the following types and sizes of individual (non-bundled) cables may be used:
1. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
2. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category.
See Through Penetrating Product (DXUY) category in the Fire Resistance Directory for names of manufacturers.
3. Max 500 kcmil single copper or aluminum conductor power cables with thermoplastic insulation and polyvinyl chloride (PVC) jacket.
4. Max 300 pair No. 24 AWG copper conductor telecommunication cables with PVC insulation and jacket material.
5. Max 7/C copper conductor No. 12 AWG multi-conductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
6. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
December 8, 2022

Page: 1 of 3

System No. C-AJ-8143

CAJ 8143

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

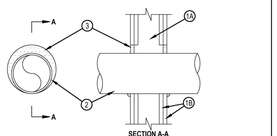
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor. Min 3 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max size of opening is 1440 in.2 (9,290 cm2) with a max dimension of 48 in. (1219 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant — One cable tray and one or more pipes, tubes or cable bundles may be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces are maintained. The annular space between cable tray and all other penetrants shall be min 3 in. (76 mm). The annular space between individual cables and cable bundles shall be a min 12 in.

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22 SHEETS

System No. W-L-1054

WL 1054

ANSI/UL 1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

Hilti Firestop Systems

System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous-contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

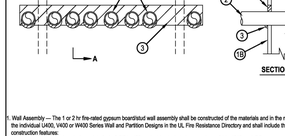
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

Hilti Firestop Systems

System No. W-L-1389

WL 1389

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400° F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204 C — 20.3 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum boardstud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of min 3-5/8 in. (92 mm) wide steel studs spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Thickness, type, number of layers and fasteners, as specified in the individual Wall and Partition Design. Max height of opening is 3-1/2 in. (89 mm). Max width of opening is 32 in. (813 mm).
   The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — Multiple pipes or conduits installed in single layer array within the firestop system. The annular space between the pipes and conduits and the edges of the opening shall be min 0 in. (point contact) to max 1-3/8 in. (35 mm). The separation between pipes and conduits to be a min 0 in. (point contact) to a max 1-1/4 in. (32 mm), except that for L Rating, the minimum separation between penetrants shall be 1/2 in. (13 mm). Pipes and conduits to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit — Nom 2 in. (51 mm) diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
3. Fill Void or Cavity Materials* - Sealant — Min 5/8 in. (16 mm) thickness of fill material installed to completely fill annular space between pipes, conduits and gypsum flush with each surface of wall. Min 1/2 in. (13 mm) diam bead of fill material applied to the through penetrant/wall interface at the point contact locations on both sides of the wall. The 2 hour F, FH Ratings apply only when FS-ONE Sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Hilti CP 606 Flexible Firestop Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

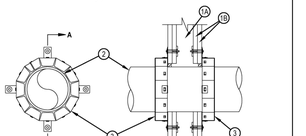
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. November 15, 2017

Hilti Firestop Systems

System No. W-L-2078

WL 2078

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/2, 1, 1-1/2, 2 Hr (See Items 2 and 3)
L Rating (Without Movement) At Ambient — 3 CFM/sq ft
L Rating (Without Movement) At 400°F — Less Than 1 CFM/sq ft
M Rating (Movement) — See Table 1



SECTION A-A

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. (292 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The M Rating is applicable only to 1 hr rated walls and the T Rating is 0 hr.
2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between the pipe and penphery of opening shall be nom 0 in. (point contact) to max 12 in. (13 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
   D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

Hilti Firestop Systems

System No. W-L-2078

WL 2078

   E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems
   F. Crosslinked Polyethylene (PEX) Tubing — Nom 4 in. (102 mm) diam (or smaller) SDR 9 Uponor AquaPEX or Wirsbo hePEX PEX tube for use in closed (process or supply) piping systems.
   When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall except that when penetrant type 2F is used, T Rating is 0 hr. When nom 8 in. or 10 in. (203 or 254 mm) diam pipe is used, T Rating is 0 hr. For systems with M Rating, the T Rating is 0 hr.
3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes, four anchor hooks for 6 in. (152 mm) diam pipes, ten anchor hooks for 8 in. (203 mm) diam pipes and twelve anchor hooks for 10 in. (254 mm) diam pipes. The anchor hooks are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. (254 by 38 mm) long drywall or laminate screws with min 3/4 in. (19 mm) steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644-20/3/8" US and CP 644-20/1/2" US Firestop Collars
4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. (13 mm) thickness of sealant applied within the annular space for nom 8 in. and 10 in. (203 and 254 mm) diam pipes. Flush with both side of wall. Sealant in annular space is optional for nom 6 in. (152 mm) diam pipes except that for penetrant type 2F, sealant is required. A min 1/4 in. (6 mm) thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. (152 mm) diam pipes. For systems with M Rating, the sealant should not be installed.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
Y	2A	2 in.	Max 1/4 in.	100%	5/8 in.	1 hr.	N/A
Z	2A	2 in.	Min. 1/4 in.	3.27 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

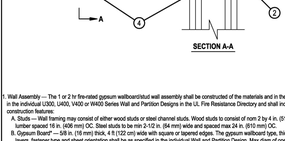
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

Hilti Firestop Systems

System No. W-L-2128

WL 2128

F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   Metallic Sleeve — Optional - Nom 6 in. (152 mm) diam (or smaller) steel sheet pipe sleeve. Sleeve to be flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces. The annular space between the steel sleeve and the penphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Where sleeve extends more than 2 in. (51 mm) beyond wall surface it shall be rigidly supported.
2. Through-Penetrants — Multiple pipes or conduits installed in single layer array within the firestop system. The annular space between the pipes and conduits and the edges of the opening shall be min 0 in. (point contact) to max 1-3/8 in. (35 mm). The separation between pipes and conduits to be a min 0 in. (point contact) to a max 1-1/4 in. (32 mm), except that for L Rating, the minimum separation between penetrants shall be 1/2 in. (13 mm). Pipes and conduits to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit — Nom 2 in. (51 mm) diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
3. Fill Void or Cavity Materials* - Sealant — Min 5/8 in. (16 mm) thickness of fill material installed to completely fill annular space between pipes, conduits and gypsum flush with each surface of wall. Min 1/2 in. (13 mm) diam bead of fill material applied to the through penetrant/wall interface at the point contact locations on both sides of the wall. The 2 hour F, FH Ratings apply only when FS-ONE Sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Hilti CP 606 Flexible Firestop Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2015

Hilti Firestop Systems

System No. W-L-3065

WL 3065

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 and 3/4 Hr (See Item 3)	FT Rating — 0 and 3/4 Hr (See Item 3)
L Rating At Ambient — 15 CFM/sq ft	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 8 CFM/sq ft	FTH Rating — 0 and 3/4 Hr (See Item 3)
	L Rating At Ambient — 15 CFM/sq ft
	L Rating At 400 F — 8 CFM/sq ft

SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.
2. Metallic Sleeve — (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 19 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surface. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015

Hilti Firestop Systems

System No. W-L-3065

WL 3065

3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening is to be min 0 in. (point contact) to max 1 in. (25 mm). When sleeve is continuous on one side of wall (see Item 2), the cable fill may be 0 to 45% and the max annular space is not limited. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
   B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ¼ in. (13 mm).
   C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
   E. Through Penetrating Products* — Max three copper conductor No. 8 AWG Metal-Clad Cable+.
   AFC CABLE SYSTEMS INC
   F. Max 3/C (with ground(s) smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
   G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
   I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.
   J. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
   K. Maximum 3/C No. 8 AWG metal-clad cable.
   L. Maximum 5/8 diam fiber-optic cable with PVC jacket.
   For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T, FT, FTH Ratings are 0 hr and 3/4 hr for 1 and 2 hr wall assemblies, respectively.
   See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
4. Fill, Void or Cavity Material*— Sealant or Putty — Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating. An additional 1/2 in. (13 mm) diam bead of fill material shall be applied at the interface of sleeve with gypsum board.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S, CP606, FS-One Sealant+ or FS-ONE MAX Intumescent Sealant+ or CP618 Putty
5. Packing Material — (Optional, Not Shown) — Mineral wool forming material may be used as a backer for the fill material (Item 4). When used, it shall be firmly packed into annular space within the sleeve as a permanent form and recessed from end of sleeve to accommodate the required thickness of fill material.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

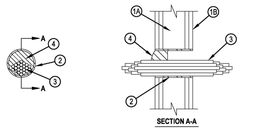
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015

Hilti Firestop Systems

System No. W-L-3272

WL 3272

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of min 3-5/8 in. (92 mm) wide steel studs spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max height of opening is 3-1/2 in. (89 mm). Max width of opening is 32 in. (813 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve — Nom 2-4 in. (51 or 102 mm) diam Schedule 5 (or heavier) steel pipe sleeve. Sleeve to be flush with wall surfaces or may extend up to 12 in. (305 mm) beyond either or both wall surfaces. The annular space between the steel sleeve and the periphery of opening shall be min 0 in. (continuous point contact) to max 1 in. (25 mm). Where sleeve extends more than 2 in. (51 mm) beyond wall surface it shall be rigidly supported.
3. Cables — Aggregate cross-sectional area of bundled cables in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening or sleeve to be min 0 in. (point contact) to max 1 in. Cables to be tightly bundled and rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 300 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 750 kcmil single copper connector power cable with thermoplastic insulation and PVC jacket.
   C. Max 7/C No. 12 AWG multiconductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cable jacketed with PVC and having a max outside diameter of 1/2 in. (13 mm).
   E. Max 3/C No. 12 AWG with bare aluminum ground, PVC insulated steel Metal-Clad cable.
   F. Max 1 in. (25 mm) diam metal clad TEK cable with PVC jacket.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

Hilti Firestop Systems

System No. W-L-3272

WL 3272

4. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Materials* - Plug — Nom 2, 2.5 or 4 in. (51, 64 or 102 mm) plug sized for the steel sleeve friction-fitted within the sleeve such that the outer circumference of the dome-shaped plug is flush with either end of sleeve. Plug cut to fit around the cable bundle and installed tightly within the sleeve.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug 2.5 or 4 in.or CFS-PL Firestop Plug 2 or 4 in.
   B. Fill, Void or Cavity Material* — Sealant — (Not shown) — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus between sleeve and periphery of opening, flush with each side of wall. At point contact location, a min 1/2 in. (13 mm) bead of fill material shall be applied at the sleeve/wall interface when sleeve extends beyond surface of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant+ or FS-ONE MAX Intumescent Sealant+
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

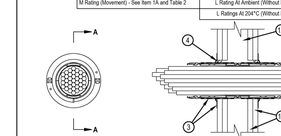
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

Hilti Firestop Systems

System No. W-L-3334

WL 3334

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1 and Table 2)
T Ratings - 0, 1/2, 1, 1-1/2, 2 Hr (See Items 2 and 3)	FT Ratings - 0, 1/2, 1-1/2, and 2 Hr (See Items 2 and 3)
L Rating (Without Movement) At Ambient - See Item 2 and Table 2	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1 and Table 2)
L Ratings (Without Movement) At 400 F - See Item 2 and Table 2	FTH Ratings - 0, 1/2, 1, 1-1/2, and 2Hr (See Items 2 and 3)
M Rating (Movement) - See Item 1A and Table 2	L Rating At Ambient (Without Movement) - See Item 2
	L Ratings At 204°C (Without Movement) - See Item 2



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC for 1 and 2 hr wall assemblies. Steel studs to be min 3-5/8 in. (92 mm) for 3 and 4 hr wall assemblies. Steel studs to be min 3-1/2 in. (89 mm) wide when 3-4 in. (19 mm) thick gypsum board is used (see Item 1B). For M Rating, studs shall be min 3-5/8 in. (92 mm) wide.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Alternately, for 1 and 2 hr rated walls only, min one layer of nom 3/4 in. (19 mm) thick gypsum board on each side of wall as specified in the individual Wall and Partition Design may be used. Opening in gypsum board to be max 2-1/2 in. (64 mm) diam for 2" device and max 4-1/2 in. (114 mm) diam for 4" device.
   The hourly F and FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed.
2. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 21, 2020

Hilti Firestop Systems

System No. W-L-3334

WL 3334

G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
H. Through-Penetrating Product* - Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
AFC CABLE SYSTEMS INC
I. Max 1/4 in. (6 mm) diameter 5-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket .
J. Max 3/C No 12 AWG MC Cable.
K. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
When the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 0 hr. When the hourly rating of the wall assembly is 2 hr, the T, FT and FTH Ratings are 1 hr except that, when 2-in 2K is used, the T, FT and FTH Ratings are 1/2 hr . When the hourly rating of the wall assembly is 3 or 4 hr, the T, FT and FTH Ratings are 1-1/2 and 2 hr, respectively.

L Ratings apply only when device flanges are used. L Ratings vary depending on whether the gasketing material (see Item 3) or the sealant (Item 4) is used. See Table 1 below for L Ratings.

Max Cable Fill	Cable Type	L Rating, CFM/Sq Ft (L/s/m²)				L Rating, CFM (L/s)			
		Ambient		400°F (204°C)		Ambient		400°F (204°C)	
		Sealant	Gasket	Sealant	Gasket	Sealant	Gasket	Sealant	Gasket
0%	—	Less than 1 (Less than 5.1)	1.0 (5.1)	Less than 1 (Less than 5.1)	2.7 (13.7)	Less than 1	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)
100%	Item 2D only	4.9 (24.9)	4.9 (24.9)	1.3 (6.6)	3.5 (17.8)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)
100%	Any cables (Item 2) in any combination	9.2 (46.7)	9.2 (46.7)	9.6 (48.8)	11.8 (59.9)	1.2 (0.6)	1.2 (0.6)	1.3 (0.6)	1.6 (0.8)

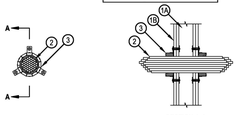
3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, twisted inner fabric smoke seal, flanges and gasketing material (not shown). Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, over gasketing material buffing tightly to both sides of wall. As an alternate to gasket material, sealant (Item 4) may be used. Device flanges are optional, except that when 3/4 in. (19 mm) gypsum board (see Item 1B) is used, device flanges shall be used and for 3 and 4 hr fire rating, device flanges shall be used. When the device flanges are not used, the T, FT and FTH Ratings for the firestop system are 0 hr. Device flanges are required for M Rating.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CFS-SL GA L Speed Sleeves, CP 653 4" BA ILS and CFS-SL GA L ILS Speed Sleeve
   The CFS-SL GA L and CFS-SL GA L ILS Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.
4. Fill, Void or Cavity Material* - Sealant — As an alternate to gasket material (see Item 3), min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall, and an additional 1/4 in. (6 mm) bead applied around periphery of device. When device flanges are used, gypsum drywall compound may be used in place of the fill material. Sealant is required when device flanges are not used (see Item 3).
   HILTI CONSTRUCTION CHEMICALS, DIV O

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100 PERCENT ON ARCH D SHEETS

System No. W-L-3396

WL 3396

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings – 0, 1 and 2 Hr (See Items 2 and 3)	FT Ratings – 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient – See Item 3	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400F - See Item 3	FTH Ratings – 0, 1 and 2 Hr (See Items 2 and 3)
	L Rating At Ambient — See Item 3
	L Rating At 400F - See Item 3



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the Individual Wall and Partition Design. Opening in gypsum board to be max 4 in. (102 mm) diam.
   The hourly F and FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed.
1A. Sleeve — (Not Shown, Optional) - Nom 4 in. (102 mm) diam (or smaller) sleeve friction fit into wall opening, flush with both wall surfaces. The following types of sleeves may be used: Schedule 5 (or heavier) steel pipe, min 28 ga steel sleeve, or Schedule 40 solid or cellular core polyvinyl chloride (PVC).
2. Cables — Cables may be installed within opening for a 0 to 100 percent visual fill. When PVC sleeve (Item 1A) is used, the aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. Cables to be tightly bundled and rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 5/C No 12 AWG MC Cable.
   For opening with cables, when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 0 hr. For opening with cables, when the hourly rating of the wall assembly is 2 hr, the T, FT and FTH Ratings are 1 hr.

System No. W-L-3396

WL 3396

3. Firestop Device* — Firestop device consisting of a steel collar with plug to be centered over opening and mounted to face of gypsum board on both sides of wall. Each flange of collar is secured to wall with No. 10 by 1-1/2 in. (38 mm) steel laminating screw and min 9/16 in. (15 mm) diam steel washer through prepunched hole in flange. As an alternate, min 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts in conjunction with min 9/16 in. (15 mm) diam steel washers may be used. For openings with cables, plug within collar cut to fit tightly around the cable bundle. For blank openings (no cables), the hourly F and FH Ratings of the firestop system are equal to the hourly rating of the wall in which it is installed.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-C/C 4" Firestop Cable Collar
   L Ratings apply to blank the openings only per Indicated in Table below.

Opening	CFM (per device)		CFM/Sq Ft Opening	
	Ambient	400F	Ambient	400F
Blank Opening Only (no cables)	Less Than 1	Less Than 1	Less Than 1	4
Max 100% visual fill with Cat 5 and/or Cat 6 cables	1.2	Less Than 1	13.2	8.9

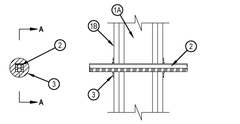
4. Fill, Void or Cavity Material* (Optional, Not Shown) — Fill material applied to fill interstices between and around the cable bundle at both sides of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, CP 618 Putty

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-3414

WL 3414

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, ¼, 1 and 2 Hr (See Item 2)	FT Ratings — 0, ¼, 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Opening	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings — 0, ¼, 1 and 2 Hr (See Item 2)
	L Rating at Ambient — Less than 1 CFM/Opening
	L Rating at 400 F — Less than 1 CFM/Opening



SECTION A-A

System No. W-L-3414

WL 3414

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cables — Single or tight bundle of cables to be installed within the opening. Aggregate cross-sectional area of cables in opening to have a visual fill of min 0% to max 100%. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 3/C No. 8 AWG NM copper conductor cable (Romex) with PVC insulation and jacket.
   B. Max 7/C-No. 12 AWG copper conductor control cable with PVC or XLPE insulation and jacket.
   C. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with PVC or plenum rated insulation and jacketing.
   D. Max 4 pr No. 22 AWG (or smaller) Cat 5 or Cat 6 computer cables with PVC or plenum rated insulation and jacketing.
   E. Type RG/U coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max outside diameter of ¼ in. (13 mm).
   F. Max 24 fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation.
   G. Through Penetrating Product* — Max two copper conductor No. 18 AWG (or smaller) Power or Non-Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   H. Maximum 3/C No. 10 AWG copper conductor metal-clad cable.
   The hourly T, FT and FTH Ratings of the firestop system are dependent on cable type and hourly wall rating as specified in Table below.

Cable Type	Hourly Wall Rating	Hourly T, FT and FTH Rating
None (Blank Opening)	1 and 2	1 and 2
A	1 and 2	1 and 2
B	1	0
	2	1/2
C	1	0
	2	1/2
D	1 and 2	1 and 2
E	1 and 2	1 and 2
F	1 and 2	1 and 2
G	1 and 2	1 and 2
H	1 and 2	1 and 2

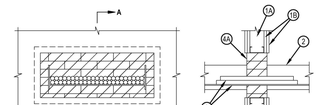
3. Fill, Void or Cavity Material* — Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the cable/cable bundle lapping nom 5 mm onto cables to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight. Disc to be installed at both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 5-D 1" Firestop Cable Disc

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-4011

WL 4011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating – 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — 5 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 2 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — 5 CFM/sq ft
	L Rating At 400 F — 2 CFM/sq ft



SECTION A-A

System No. W-L-4011

WL 4011

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing member shall be installed in stud cavity containing through-penetrating item to form a rectangular box around penetrant.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max size of opening 9 in. (229 mm) by 30 in. (762 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
   Min finished wall thickness is 5 in. (127 mm).
2. Cable Tray* — Max 24 in. (610 mm) wide by max 6 in. (152 mm) deep open-ladder or solid-back cable tray with channel-shaped side rails formed of 0.10 in. (2.54 mm) thick aluminum or 0.060 in. (1.54 mm) thick steel and with 1-1/2 in. (38 mm) steps spaced 9 in. (229 mm) OC or a 0.029 in. (0.74 mm) thick steel solid back, respectively. The annular space between the cable tray and the periphery of the opening shall be min 0 in. (point contact) to max 4 in. (102 mm). Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables — Aggregate cross-sectional area of cables in cable tray to be max 45 percent of the cross-sectional area of the cable tray based on a max 5 in. (127 mm) cable loading depth. Any combination of the following types and sizes of copper conductor cables may be used:
   A. 1/C, 750 kcmil (or smaller) power cable with EPR insulation and PVC jacket.
   B. 300 pair - No. 24 AWG cable with PVC insulation and jacket.
   C. Twenty-four fiberoptic cable with PVC outburst and jacket.
   D. Max three 1/C, No. 12 AWG wire, insulated with polyvinyl chloride, in a nom 3/4 in. (19 mm) Flexible Metal Conduit*.
4. Firestop System — The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* — Fire Blocks — For walls incorporating max 3-5/8 in. (92 mm) steel studs or max 2 in. (51 mm) by 4 in. (102 mm) wood studs, fire block installed with 5 in. (127 mm) dimension projecting through and centered in opening. For walls constructed of larger steel or wood studs, fire block installed with long dimension passing through and centered in opening. Blocks may or may not be cut flush with both surfaces of wall. When multiple layers of gypsum board are used, blocks may be recessed 1/2 in. (13 mm) from surface of wall. Blocks firmly packed within opening. Either one or a combination of the block types specified below may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 5-BL Firestop Block
   B. Fill, Void or Cavity Material* — Sealant or Putty — (Not Shown) — Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP618 Firestop Putty Stick (Note: L Ratings apply only when FS-One Sealant is used)

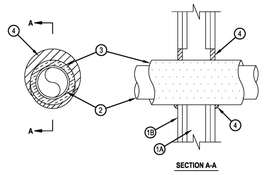
* Bearing the UL Listing Mark

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-5028

WL 5028

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 3/4 and 1 Hr (See Item 3)	FT Ratings — 0, 3/4 and 1 Hr (See Item 3)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings – 0, 3/4 and 1 Hr (See Item 3)
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max diam of opening is 7-1/2 in. (191 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
   C. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

System No. W-L-5028

WL 5028

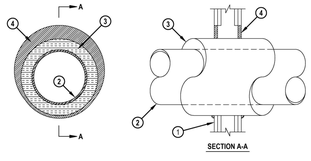
3. Tube Insulation — Plastics* — Min 1/2 in. (13 mm) to max 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 0 in. (point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. The T, FT and FTH Ratings are 1 hr when the 1 in. (25 mm) thick tube insulation is used and 3/4 hr when the 3/4 in. (19 mm) thick tube insulation is used. When tube insulation thickness is less than 3/4 in. (19 mm), the T, FT and FTH Ratings are 0 Hr.
   See Plastics (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-5029

WL 5029

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



SECTION A-A

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

System No. W-L-5029

WL 5029

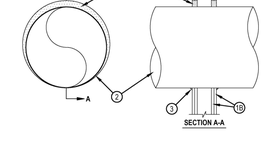
3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (SRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Ratings shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (SRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-7042

WL 7042

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Items 1 and 3)	F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr	FT Rating - 0 Hr
	FH Ratings - 1 and 2 Hr (See Items 1 and 3)
	FTH Rating - 0 Hr



SECTION A-A

System No. W-L-7042

WL 7042

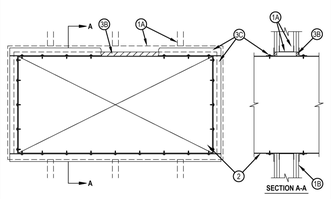
1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC. Additional framing members shall be used to completely frame the opening for all ducts greater than 20 in. (502 mm) diam.
   B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 25-1/2 in. (648 mm) for steel stud walls.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (0 mm, point contact) and max 1-1/2 in. (64 mm) Duct to be rigidly supported on both sides of wall assembly.
   A. Spiral Wound HVAC Duct — Nom 24 in. (610 mm) diam (or smaller) No. 28 MSG (or heavier) galv steel spiral wound duct.
   B. Sheet Metal Duct — Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.
3. Fill, Void or Cavity Material* –Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 and 2 hr F Ratings, respectively. When FS-ONE Max is used, min 5/8 in. (16mm) thickness for both 1 and 2 hr F Ratings. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-7155

WL 7155

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 Hr	FT Ratings — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m2) with a max dimension of 104 in. (2.64 m).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Duct — Max 100 in. by 100 in. (2.5 by 2.5 m) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of wall assembly.

System No. W-L-7155

WL 7155

2A1. Through-Penetrating Product* — As an alternate to Item 2. Fiber cement with galvanized steel facing, 3/8 in.(10 mm) thick composite metallic duct, with a max cross-sectional area of 43.0 sq ft, (4 m2) and a max individual dimension of 78 3/4 in. (2 m). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.
   DURASYSTEMS BARRIERS INC — Type DuraDuct HP.
2A2. Through-Penetrating Product* — As an alternate to Item 2. Fiber cement with galvanized steel facing, 1/4 in. (6 mm) thick, with a max cross-sectional area of 1764 sq in. (1.14 m2), and a max individual dimension of 42 in. (1067 mm). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly and installed in accordance. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.
   DURASYSTEMS BARRIERS INC — Type DuraDuct SD.
2A3. Through-Penetrating Product* — As an alternate to Item 2. Galvanized steel faced duct panel, with a max cross-sectional area of 2450 sq in. (1.58 m2), and a max individual dimension of 49-1/2 in. (1258 mm) Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides wall assembly. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.
   DURASYSTEMS BARRIERS INC — Type DuraDuct ONX.
3 Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Optional, Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   A1. Packing Material — Required as specified in Table below. Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct and the gypsum board.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant
   C. Steel Retaining Angles — Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in2 (8387 cm2), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material, sealant and annular space as specified.

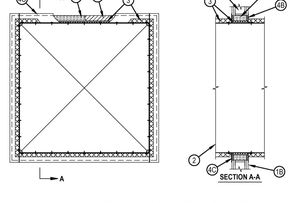
Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-7156

WL 7156

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0, 1 and 2 Hr (See Item 4C)	FT Rating — 0, 1, and 2 Hr (See Item 4C)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0, 1, and 2 Hr (See Item 4C)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2

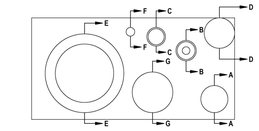
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS

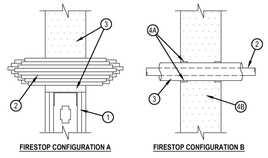
WL 8019

System No. W-L-8019

F Rating – 1 and 2 Hr (See Items 1, 3 and 4)
T Rating – 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115





FIRESTOP CONFIGURATION A

FIRESTOP CONFIGURATION B

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

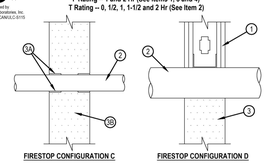
Hilti Firestop Systems

WL 8019

System No. W-L-8019

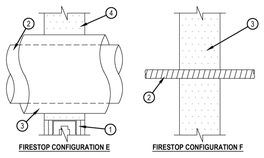
F Rating – 1 and 2 Hr (See Items 1, 3 and 4)
T Rating – 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



FIRESTOP CONFIGURATION C

FIRESTOP CONFIGURATION D



FIRESTOP CONFIGURATION E

FIRESTOP CONFIGURATION F

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

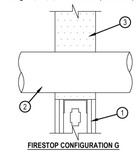
Hilti Firestop Systems

WL 8019

System No. W-L-8019

F Rating – 1 and 2 Hr (See Items 1, 3 and 4)
T Rating – 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



FIRESTOP CONFIGURATION G

1. Wall Assembly – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Steel studs 3-1/2 in. deep, fabricated from 25 MSG galv steel, spaced max 24 in. OC.
   B. Gypsum Board* – The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 450 sq in with max dimension of 30 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants – A max of seven firestop configurations may be installed within the opening. The space between firestop configurations. Unless otherwise indicated, the space between firestop configurations and perimeter of opening shall be min 3/8 in. Pipe, conduit, tubing or cables to be rigidly supported on both sides of floor or wall assembly. The T Rating of the system is dependent on the firestop configurations, as shown in the table below. Any combination of the following firestop configurations detailed herein may be used.

Firestop Configuration	1 Hr F Rating	2 Hr F Rating
	T Rating Hr	T Rating Hr
A	0	1/2
B	1	1-1/2
C	1/2	1
D	0	0
E	1	2
F	0	0
G	0	0

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

Hilti Firestop Systems

WL 8019

System No. W-L-8019

F Rating – 1 and 2 Hr (See Items 1, 3 and 4)
T Rating – 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

2. Cables – Max 4 in. diam tightly bundled cable. The min space between adjacent penetrants shall be 4 in. Cable bundle may be any combination of the following types and sizes of cables:
   G. Max 25 pair No. 24 AWG copper telephone cable with polyvinyl chloride (PVC) insulation and jacket materials.
   H. Max 7/C No. 12 AWG cable with PVC insulation and jacket materials.
   I. Multiple fiber optical communication cables with PVC jacket material and having a max outside diameter of 3/8 in.
   J. Max 3/C No. 12 AWG steel clad cables with PVC insulation and jacket materials.
   K. Max 3/C No. 8 AWG cables with ground with PVC insulation and jacket materials.
   L. Max RG 59 coaxial cables with PVC insulation and jacket materials.
3. Fill, Void or Cavity Material* – Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Firestop Configuration B
2. Copper Tuber or Pipe – Nom 1 in. diam (or smaller) Type L copper tube or nom 1 in diam (or smaller) Regulary (or heavier) copper pipe. Min space between adjacent penetrants shall be 3 in.
3. Tube Insulation - Plastics+ – Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The min space between adjacent penetrants shall be 1-1/2 in.
   See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classificationof 94-5VA may be used.
4. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip – Nom 3/16 in thick by 1 in wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe covering one time and held in place with tape. Wrap strips are installed flush with each side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 648-E WSS1-3/4 Wrap Strip
   B. Fill, Void or Cavity Material* - Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Firestop Configuration C
2. Polyvinyl Chloride (PVC) Pipe – Nom 2 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system. The min space between non-metallic penetrants shall be 1 in. The min space between metallic penetrants shall be 3-1/2 in.
3. Firestop System – The firestop shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip – Nom 3/16 in thick by 1 in wide intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe covering one time and held in place with tape. Wrap strips are installed flush with each side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 648-E WSS1-3/4 Wrap Strip
   B. Fill, Void or Cavity Material* - Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

Hilti Firestop Systems

WL 8019

System No. W-L-8019

F Rating – 1 and 2 Hr (See Items 1, 3 and 4)
T Rating – 0, 1/2, 1, 1-1/2 and 2 Hr (See Item 2)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

Firestop Configuration D
2. Through-Penetrant – One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. The min annular space between the pipe, conduit or tube and the periphery of the opening shall be min. 0 in. (point contact). The annular space between adjacent penetrants shall be min 3-1/2 in. The following types and sizes of metallic pipes, conduits or tubes may be used:
   Steel Pipe – Nom 4 in. diam (or smaller) Schedul 10 (or heavier) steel pipe.
   Iron Pipe – Nom 4 in. diam (or smaller) cast or ductile iron pipe.
   Conduit – Nom 4 in. diam (or smaller) rigid steel conduit.
   Conduit – Nom 4 in. diam (or smaller) steel electrical metallic conduit.
   Copper Tubing – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   Copper Pipe – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* - Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Firestop Configuration E
2. Steel Pipe – Nom 8 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
3. Pipe Covering Materials* – Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners of with butt tape supplied with product. The min space between adjacent penetrants shall be 2 in.
   See Pipe and Equipment Covering - Materials (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* – Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Firestop Configuration F
2. Flexible Conduit – Nom 1 in. diam (or smaller) flexible steel conduit. The min space between adjacent penetrants shall be 3-1/2 in.
3. Fill, Void or Cavity Material* – Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

Firestop Configuration G
2. Steel Duct – Nom 6 in. diam (or smaller) No. 28 gauge (or heavier) galve steel duct. The min space between adjacent penetrants shall be 1-1/2 in.
3. Fill, Void or Cavity Material* – Foam – Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 hr F Rating is 4-3/4 in. Min fill material thickness for 2 hr F Rating is 6 in.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 620 Fire Foam

*Bearing the UL Classification Mark

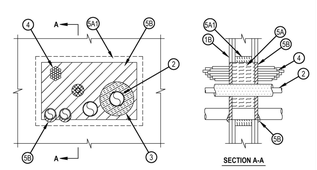
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

Hilti Firestop Systems

WL 8079

System No. W-L-8079

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)	FT Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1/2, 3/4, 1-1/2 and 2 Hr (See Items 1, 2, 3 and 4)



SECTION A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When item 5A1 is not used, additional framing members (not shown) shall be installed to frame the periphery of the wall opening. When the additional framing members are used to frame the opening, the hourly T, FT and FTH Ratings of the firestop system are 0 hr.
   B. Gypsum Board* — 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the through penetrants are installed in a wood studgypsum board assembly, the max area of square, rectangular, or circular opening is 210 sq in. (1355 cm^2) with max dimension of 14-1/2 in. (368 mm). If the through penetrants are installed in a steel studgypsum board assembly, max area of square, rectangular, or circular opening is 240 sq in. (1548 cm^2) with max dimension of 20 in. (508 mm) wide.

   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 26, 2017

Hilti Firestop Systems

WL 8079

System No. W-L-8079

2. Through-Penetrant — One or more pipes, conduit or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the through penetrants are maintained. The separation between the penetrants shall be min 1 in. (25 mm) to max 20 in. (508mm). The annular space between penetrants and the periphery of opening shall be min 0 in. (point contact) to max 20 in. (508 mm). Pipes, conduit or tubes to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduit or tubes may be used.
   A. Copper Tubing — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.
   B. Copper Pipe — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.
   C. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   D. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   E. Conduit — Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or rigid steel conduit.
   F. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   G. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

   The T, FT and FTH Ratings are 0 hr if bare pipe and tubing is used.

3. Pipe Insulation — One or more metallic penetrants (pipe or tubing) may be insulated with the following types of pipe coverings:
   A. Pipe Covering* — Min 1 in. (25 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density min 3.5 pcf (56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   B. Tube Insulation-Plastics+ — Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

   See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

   The annular space between the insulated penetrants and the periphery of the opening shall be min 0 in. (0 mm, point contact) The separation between the insulated penetrants and the other penetrants shall be a min 1 in. (25 mm).

   The T, FT and FTH Ratings are 1-1/2 hour if Item 3B is used. The T, FT and FTH Ratings are 2 hr if Item 3A is used.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 26, 2017

Hilti Firestop Systems

WL 8079

System No. W-L-8079

4. Cables — One max 3 in. (76 mm) diam bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The annular space between the tightly-bundled cables and the periphery of the opening shall be min 0 in. (point contact) to max 20 in. (508 mm). The separation between the cable bundle and the other penetrants shall be min 1 in. (25 mm) to max 20 in. (508 mm). Any combination of the following types and sizes of cables may be used:
   A. Max 25 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.
   B. Max 7/C No. 12 AWG copper conductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   D. Max 3/C No. 8 AWG with bare aluminum ground, PVC insulated steel Metal-Clad+ Cable currently Classified under the Through Penetrating Product* (W-L-Y) category.
   E. Max 3/C (with ground) No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.
   F. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diam of 1/2 in. (13 mm).
   G. Max 3/4 in. (19 mm) diam copper ground cable with or without PVC jacket.
   H. Max 1-1/4in. (32 mm) Diam single or multi conductor mineral-insulated copper-clad cable.

   The T, FT and FTH Ratings are 1/4 hr if cables D, G and H are used. The T, FT and FTH Ratings are 3/4 Hr for any other combination.

4A. Through Penetrants — (Not Shown) - Max six nom 1 in. (25 mm) diam (or smaller) flexible steel conduits to be installed either concentrically or eccentrically within the firestop system. The annular space between the conduits and the periphery of the opening shall be min 0 in. (point contact) to a max 3 in. (76 mm). Conduits to be rigidly supported on both sides of wall. The T, FT and FTH Ratings are 0 Hr if this penetrant is used.
4B. Through Penetrants — (Not Shown) - Max twelve nom 3/8 in. (10 mm) diam (or smaller) polyvinyl chloride (PVC) pneumatic tubing for use in closed (process or supply) piping systems. Tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 1 in. (25 mm). Tubing to be rigidly supported on both sides of wall.
5. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.
   A1. Packing Material — Min 1-1/4 in. (32 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed as a backer around the perimeter of opening as a permanent form. When additional framing members are used to frame the opening (see Item 1A), this packing material is optional. Packing material can be used in combination with the additional framing members.
   B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrants and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

+ Bearing the UL Listing Mark

Bearing the UL Recognized Component Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 26, 2017

Hilti Firestop Systems

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
880.781.8441 | 817.228.1917 | 801 Cherry St. Ste. 500, Fort Worth, TX 76102 | e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.88

UL PENETRATIONS- GYPSUM WALLS

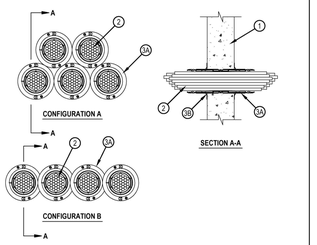
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100 SHEETS

System No. W-J-3189

W-J-3189

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 Hr	F Ratings - 2 Hr
T Ratings - 1/2 and 1-1/2 Hr (See Item 2)	FT Ratings - 1/2 and 1-1/2 Hr (See Item 2)
L Rating At Ambient - 1.2 and Less Than 1 CFM per Device (See Items 2, 3A and 3A1)	FH Rating - 2 Hr
L Ratings At 400 F - 1.3, 1.6 and Less Than 1 CFM per Device (See Items 2, 3A and 3A1)	FTH Ratings - 1/2 and 1-1/2 Hr (See Item 2)
	L Rating At Ambient - 0.6 and Less Than 0.5 L/s per Device (See Items 2, 3A and 3A1)
	L Ratings At 204°C - 0.6, 0.8 and Less Than 0.5 L/s per Device (See Items 2, 3A and 3A1)



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 02, 2018

Hilti Firestop Systems

Page: 1 of 3

System No. W-J-3189

W-J-3189

1. Wall Assembly — Minimum 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Maximum five individual openings may be provided (see Item 3A). Diam of opening for each firestop device shall not exceed 4-1/2 in. (114 mm) and shall be sized to the OD of the firestop device. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cables — The aggregate cross-sectional area of cables in firestop devices to be min 0 percent (blank) to max 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product* - Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   I. Max. 1/4 in. (6 mm) diameter S-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket .
   J. Max 3/C No 12 AWG MC Cable.
   K. Through-Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

   For opening with cables, the T, FT and FTH Ratings are 1/2 hr. For blank opening (no cables), the T, FT and FTH Ratings are 1-1/2 hr.

   L Ratings vary depending on whether the gasketing material (see Item 3) or the sealant (Item 4) is used. See Table below for L Ratings.

Max Cable Fill	Cable Type	Type L Rating, CFM (L/s) Per Device			
		Ambient		400°F (204°C)	
		Sealant	Gasket	Sealant	Gasket
0%	--	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)
100%	Item 2D only	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)	Less than 1 (Less than 0.5)
100%	Any cables (Item 2) in any combination	1.2 (0.6)	1.2 (0.6)	1.3 (0.6)	1.6 (0.8)

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 02, 2018

Hilti Firestop Systems

Page: 2 of 3

System No. W-J-3189

W-J-3189

3. Firestop System — The firestop system shall consist of the following:
   A. Firestop Device* — Maximum five firestop devices grouped in two row configuration as depicted. The individual openings in the wall for each device are spaced min 2-7/16 in. (62 mm) apart such that the device flanges of adjacent devices are no closer than point contact. Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, twisted inner fabric smoke seal, flanges and gasketing material (not shown). Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal within each device may remain open except that, for all blank devices (no cables), the inner fabric seal shall be twisted to completely close the device. In addition, to attain the L Rating, the inner fabric seal must also be twisted to completely close the device within each device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. Device provided with flanges that are spun closed onto device threads, over gasketing material butting tightly to both sides of wall. The annular space between each device and the periphery of the opening shall be nom 0 in. (point contact). Device flanges are to be secured to wall with min two 1-1/4 in. (32 mm) long masonry screws or anchors. As an alternate to gasket material, sealant (Item 3B) may be used.
   A1. Firestop Device* — Same as Item A above except maximum four firestop devices grouped in one row as depicted. The individual openings in the wall for each device are spaced min 1-7/16 in. (36.5 mm) apart. Device flanges may overlap one another. As an option, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within each device.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CFS-SL GA L Speed Sleeves, CP 653 4" SA LS and CFS-SL GA L LS Speed Sleeve.
   The CFS-SL GA L and CFS-SL GA L ILS Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CFS-SL GA L Speed Sleeves, CP 653 4" SA LS and CFS-SL GA L LS Speed Sleeve.
   The CFS-SL GA L and CFS-SL GA L ILS Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.
   B. Fill, Void or Cavity Material* — As an alternate to gasket material (see Item 3A), min 1/4 in. (6 mm) bead of fill material applied around periphery of each device to wall interface on both sides of wall prior to installing device flanges.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 02, 2018

Hilti Firestop Systems

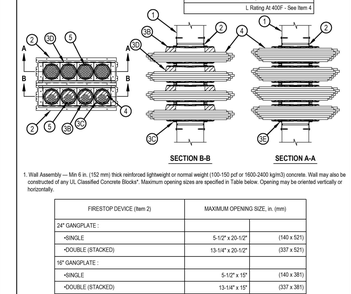
Page: 3 of 3

System No. W-J-3200

W-J-3200

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 Hr	F Ratings - 2 Hr
T Rating - 1/4 Hr	FT Rating - 1/4 Hr
L Rating At Ambient - See Item 4	FH Ratings - 2 Hr
L Rating At 400F - See Item 4	FTH Ratings - 1/4 Hr
	L Rating At Ambient - See Item 4
	L Rating At 400F - See Item 4



1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Maximum opening sizes are specified in Table below. Opening may be oriented vertically or horizontally.

FIRESTOP DEVICE (Item 2)	MAXIMUM OPENING SIZE, in. (mm)	
24" GANGPLATE :		
•SINGLE	5-1/2" x 20-1/2"	(140 x 521)
•DOUBLE (STACKED)	13-1/4" x 20-1/2"	(337 x 521)
18" GANGPLATE :		
•SINGLE	5-1/2" x 15"	(140 x 381)
•DOUBLE (STACKED)	13-1/4" x 15"	(337 x 381)

See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 31, 2017

Hilti Firestop Systems

Page: 1 of 4

System No. W-J-3200

W-J-3200

2. Firestop Device* — The firestop device consists of a steel plate sandwich construction with three (16" device size) or four (24" device size) circular opening ports which are each nom 4 in. (102 mm) diam. The firestop device is intended to be oriented vertically or horizontally and mounted to the face of the opening on both sides of wall. As an option, up to two devices may be installed adjacent to each other with a nom 13/16 in. (2 cm) overlap to protect larger sized openings (see Item 1 for double device). Each device shall be secured to wall with min 1-1/2 in. (38 mm) long masonry screws or anchors through prepunched holes around periphery of steel device plates; min three (16" gang plate) or four (24" gang plate) fasteners are used at each long dimension and three fasteners at each end. For double plate installations, four min No. 10 by 3/4 in. (19 mm) steel screws are used to secure the plate to plate joint through prepunched holes in the plate. The device shall be installed in accordance with the accompanying installation instructions.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SL GP 16" and 24" Firestop Gangplate
3. Firestop Device — Within each circular opening port of the CFS-SL GP firestop gang plates (Item 2), one of the following firestop devices shall be installed. Any combination of these firestop devices may be used within each gang plate.
   3A. Firestop Device* — (Not Shown) Rectangular steel plate designed to close port openings with no penetrants. Plate is field installed in accordance with Hilti Installation Instructions. Flanges of gang plate over port opening are removed by loosening CP nuts, the steel plate cap installed with prepunched holes aligned with GP fasteners, and the flanges of GP then reinstalled and nuts reinstalled to tighten the plates in position.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SL GP CAP Firestop Gangplate CAP
   3B. Firestop Device* — Firestop device consists of a corrugated steel tube. The device flanges are removed by spinning counterclockwise and are not used. Device tube slid into gang plate port opening and centered within wall such that ends of device tube project an approximate equal distance from the gang plate on each side of wall. The two integral screws within the flange of the gang plate port at each side of wall are tightened to firmly bear against the device sleeve to retain it in position. Device is designed to allow installation before or after the cable penetrants (if employed) are in place. Device is used in combination with the firestop plugs described in Item 3D.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SL RK 4" Firestop Sleeve
   3C. Firestop Device* — Firestop device consists of a corrugated steel tube. The device flanges are removed by spinning counterclockwise and are not used. Device tube slid into gang plate port opening and centered within wall such that ends of device tube project an approximate equal distance from the gang plate on each side of wall. The two integral screws within the flange of the gang plate port at each side of wall are tightened to firmly bear against the device sleeve to retain it in position. Device is used in combination with the firestop plugs described in Item 3D.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SL SK 4" Firestop Sleeve
   3D. Fill, Void or Cavity Material* - Plug — Plugs are required to be used with the CFS-SL RK and SK firestop devices (Items 3B and 3C). Nom 4" diam plug friction fit within the device sleeve flush with each end of the device on both sides of wall. Plug cut to fit around the cable bundle (if used) and installed tightly within the device sleeve.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-PL Firestop Plug 4"
   3E. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings and twisted inner fabric smoke seal. The device flanges are to be spun counterclockwise and removed since they are not used. Device tube slid into gang plate port opening and centered within wall such that ends of device tube project an approximate equal distance from the gang plate on each side of wall. The two integral screws within the flange of the gang plate port at each side of wall are tightened to firmly bear against the device sleeve to retain it in position. The inner fabric seal shall be twisted to completely close off any unused opening within the device. As an option, the inner fabric seal within the device may remain open except that, for all blank devices (no cables), the inner fabric seal shall be twisted to completely close the device. In addition, to attain the L Rating, the inner fabric seal must also be twisted to completely close the opening within each device.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 4" Speed Sleeve

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 31, 2017

Hilti Firestop Systems

Page: 2 of 4

System No. W-J-3200

W-J-3200

4. Cables — Within the loading area for each firestop device (Items 3B through 3E), a tightly bundled cable may be installed. The aggregate cross-sectional area of cables shall be min 0 to max 80 percent fill for each CFS-SL RK and CFS-SL SK firestop device (Items 3B and 3C). For the CP 653 Speed Sleeve firestop device (Item 3E), the cables can be used for a 0 to 100 percent visual fill. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat6 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 3/C No 12 AWG MC Cable.
   H. Through Penetrating Product* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
   See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
   I. Max 3/C No 12 AWG MC Cable.
   The L Ratings are dependent on the type and number of devices within the gang plate and the cable type and fill. For devices with cable bundle, the cable bundle shall be nominally centered within the device to attain the L Ratings. The L Ratings in CFM per GP device (Table 1) and in CFM per ft2 of opening (Table 2) are specified below:

Table 1 - CFM per CFS-SL GP Gangplate Device at Ambient and 400F

	TYPE AND NUMBER OF DEVICES IN CFS-SL GP (CAP - ITEM 3A; DEVICES - ANY COMBINATION OF ITEMS 3B THROUGH 3D EXCEPT AS NOTED)				
	CAP(S) ONLY	CAP(S) AND ONE DEVICE	CAP(S) AND TWO DEVICES	CAP (OPT) AND THREE DEVICES	FOUR DEVICES
BLANK OPENING (NO CABLES) :	LESS THAN 1	1	2	2.5	3.5
OPENINGS WITH ANY COMBINATION OF ITEM 5 CABLES FOR MAX 33% AGGREGATE FILL IN DEVICE TYPES 3B AND 3C, AND/OR MAX 100% VISUAL CABLE FILL IN DEVICE TYPE 3D	-	2	4	6	8
	CAP(S) ONLY	CAP(S) AND ONE CP 653 DEVICE (ITEM 3D)	CAP(S) AND TWO CP 653 DEVICES (ITEM 3D)	CAP (OPT) AND THREE CP 653 DEVICES (ITEM 3D)	FOUR CP 653 DEVICES (ITEM 3D)
OPENINGS WITH MAX 100% VISUAL CABLE FILL WITH CABLE TYPE 5D ONLY AND CP 653 ONLY	-	1.5	3	4	5.5

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 31, 2017

Hilti Firestop Systems

Page: 3 of 4

System No. W-J-3200

W-J-3200

Table 2 - CFM per FT^2 of Opening at Ambient and 400F.

	TYPE AND NUMBER OF DEVICES IN CFS-SL GP (CAP - ITEM 3A; DEVICES - ANY COMBINATION OF ITEMS 3B THROUGH 3D EXCEPT AS NOTED)				
	CAP(S) ONLY	CAP(S) AND ONE DEVICE	CAP(S) AND TWO DEVICES	CAP (OPT) AND THREE DEVICES	FOUR DEVICES
BLANK OPENING (NO CABLES) :	1.2	1.3	2.6	3.2	4.5
OPENINGS WITH ANY COMBINATION OF ITEM 5 CABLES FOR MAX 33% AGGREGATE FILL IN DEVICE TYPES 3B AND 3C, AND/OR MAX 100% VISUAL CABLE FILL IN DEVICE TYPE 3D	-	2.6	5.1	7.7	10.2
	CAP(S) ONLY	CAP(S) AND ONE CP 653 DEVICE (ITEM 3D)	CAP(S) AND TWO CP 653 DEVICES (ITEM 3D)	CAP (OPT) AND THREE CP 653 DEVICES (ITEM 3D)	FOUR CP 653 DEVICES (ITEM 3D)
OPENINGS WITH MAX 100% VISUAL CABLE FILL WITH CABLE TYPE 5D ONLY AND CP 653 ONLY	-	1.9	3.8	5.1	7.0

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. May 31, 2017

Hilti Firestop Systems

Page: 4 of 4

System No. W-J-3215

W-J-3215

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 1/2 and 2 Hr (See Item 2)	FT Ratings — ¼ and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Opening	FH Rating — 2 Hr
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings — 1/2 and 2 Hr (See Item 2)
	L Rating at Ambient — Less than 1 CFM/Opening
	L Rating at 400 F — Less than 1 CFM/Opening

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 29, 2020

Hilti Firestop Systems

Page: 1 of 2

System No. W-J-3215

W-J-3215

1. Wall Assembly — Min 6 in. (152 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cables — Single or tight bundle of cables to be installed within the opening. Aggregate cross-sectional area of cables in opening to have a visual fill of min 0% to max 100%. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 3/C No. 8 AWG NM copper conductor cable (Romex) with PVC insulation and jacket.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE insulation and jacket.
   C. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with PVC or plenum rated insulation and jacketing.
   D. Max 4 pr No. 22 AWG (or smaller) Cat 5 or Cat 6 computer cables with PVC or plenum rated insulation and jacketing.
   E. Type RG/U coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max outside diameter of 1/2 in. (13 mm).
   F. Max 24 fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation.
   G. Through Penetrating Product* — Max two copper conductor No. 18 AWG (or smaller) Power or Non-Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   H. Maximum 3/C No. 10 AWG metal-clad cable.
   The hourly T, FT and FTH Ratings of the firestop system are 2 hr except that for cable type 2B and 2C, the ratings are 1/2 hr. For blank openings with no penetrant, the F, FT, FH and FTH Ratings are 2 hr.
3. Fill, Void or Cavity Material* — Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the cable/cable bundle lapping nom 5 mm onto cables to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight. Disc to be installed at both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Putty Disc

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 29, 2020

Hilti Firestop Systems

Page: 2 of 2

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 | 888.781.8441 | e4harchitecture.com

exalt health

RYAN

© 2026 E4H - Environments for Health, LLC

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.89

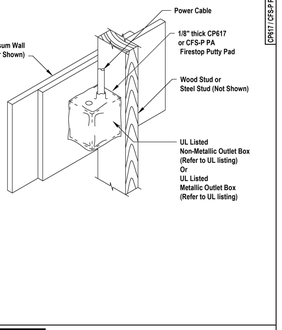
UL PENETRATIONS- CONCRETE OR MASONRY WALLS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONLY. ADJUST ACCORDINGLY

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

Certified by Underwriters Laboratories, Inc. to UL 263 and CAN/ULC-S101

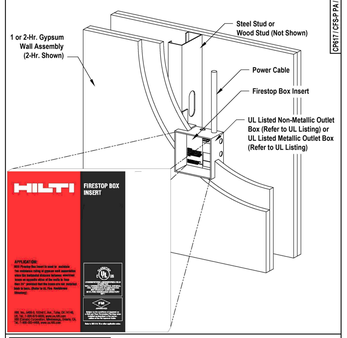


Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Hilti Firestop Systems

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Hilti Firestop Systems

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617 or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 5-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box.Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber-reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with plastic cover plates.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Hilti Firestop Systems

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. The boxes are installed back to back with 6 in. by 4 in. UL Classified fire block, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 14 by 6 by max 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep wood or steel studs for 2 hr fire rated walls and min 3-1/2 in. deep wood or steel studs for 1 hr fire rated walls. Walls constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Stud cavity insulation is required and shall consist of min 5-1/2 in. (2 hr rated walls) or min 3-1/2 in. (1 hr rated walls) thick fiberglass (min 0.8 pcf) or mineral fiber (min 4 pcf). Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the box.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the outlet boxes. Metallic outlet boxes may be provided with steel attachment brackets which offset box min 1/4 in. from stud. When steel attachment brackets are used, putty pad to be affixed to the back and all four sides of the box.

CFS-P PA Moldable Putty Pads, for use with max 4-11/16 by 4-11/16 in. by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at the connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 14-1/4 by 4-1/2 by 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

HILTI Firestop Box Insert, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

HILTI Firestop Box Insert, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes in 1 hr fire rated walls may be installed with plastic or steel cover plates. Outlet boxes in 2 hr fire rated walls shall be installed with steel cover plates. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 x 4-3/8 in coverage.

HILTI Firestop Box Insert, for use with max 4 by 4 by 1-1/2 in. deep and 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. One 3-1/16 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-1/16 x 3-3/4 in coverage.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Hilti Firestop Systems

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

Box Size	Type of Box and Cover Plate	Hourly Rating	Wall Type
4 x 4 x 2-1/8 in deep	Metallic w/ steel cover plates	2-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 2-1/8 in deep	Metallic w/ plastic cover plates	1-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 1-1/2 in deep	Metallic w/ plastic cover plates	1-hour	U300 - wood studs

HILTI Firestop Box Insert, for use with max 2 1/8 x 4 x 2 1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes may be installed with steel cover plates. One 1-7/8 x 2-13/16 insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

HILTI Firestop Box Insert, for use with max 4-1/2 x 6-1/2 in. by 1-5/8 in. deep or max 3-3/4 x 5-1/2 in. by 2-1/2 in deep UL Listed Metallic Outlet Boxes without internal clamps in 1 hr or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. Outlet boxes installed with steel cover plates. Box inserts evenly spaced and adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

Box Size	Inserts Used	Fire Rating	Wall Type
4-1/2 x 6-1/2 x 1-5/8 in deep	Two 3-11/16 x 3-3/4 in. inserts **	2 hour	U300, U400 or V400 - wood or steel studs
3-3/4 x 5-1/2 x 2-1/2 in deep	One 3-11/16 x 3-3/4 in. insert and one 1-7/8 x 2-13/16 in. insert	1 hour	U300, U400, or V400 - wood or steel studs

**- Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of HILTI FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for F/R, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.

HILTI Firestop Box Insert,. for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with plastic or steel cover plates.

HILTI Firestop Box Insert, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with steel cover plates.

CP 617 or CFS-P PA Firestop Putty Pads and HILTI Firestop Box Inserts, for use with maximum 4 by 4 by 1-1/2 in. (102 by 102 by 38 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

Hilti Firestop Systems

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
888.781.8441 817.228.1917 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A5.90

UL FIRESTOP BOX INSERT (ELECTRICAL)

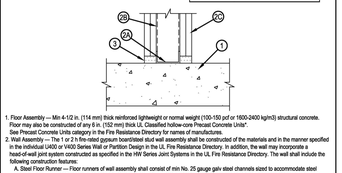
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100 PERCENT. ALL SIZES ARE PROPORTIONAL TO IT.

System No. BW-S-0001

BWS 0001

Classified by Underwriters Laboratories, Inc. to UL 2079 and CAN/ULC-S115

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Items 2 and 3A)
Nominal Joint Width - 3/4 In.	FT Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400°F — Less Than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width - 3/4 In.
	L Rating at Ambient — Less than 1 CFM/Lin Ft
	L Rating at 400° F — Less than 1 CFM/Lin Ft



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. See Precast Concrete Units category for names of manufacturers.
2. Wall Assembly — The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
   A. Steel Floor Runner — Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.
   B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.
   C. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 hr rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of gypsum board and top of concrete floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.
3. Fill, Void or Cavity Material* Sealant — Max separation between top of floor and bottom of gypsum board is 3/4 in. (19 mm). For 1 and 2 hr rated wall assemblies, min 5/8 in. or 1-1/4 in. (16 or 1-1/4 mm) thickness of fill material, respectively, installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant, CP606 Flexible Firestop Sealant, CFS-S SIL GG, FS-ONE Sealant or FS-ONE MAX intumescent Sealant

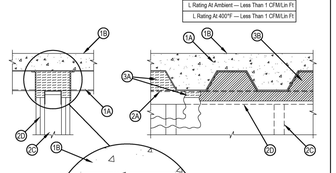
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0042

HWD 0042

Classified by Underwriters Laboratories, Inc. to UL 2079 and CAN/ULC-S115

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 2 and 3A)	F Ratings — 1 and 2 Hr (See Items 2 and 3A)
Nominal Joint Width - 1 In.	FT Ratings — 1 and 2 Hr (See Items 2 and 3A)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Items 2 and 3A)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Items 2 and 3A)
L Rating At 400°F — Less Than 1 CFM/Lin Ft	Nominal Joint Width - 1 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/Lin Ft
	L Rating At 400°F — Less Than 1 CFM/Lin Ft

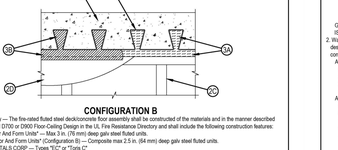


1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted units.
      A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "EC" or "Tuf-Deck".
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "Tuf-Deck" or "ERDR"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or by welds spaced max 24 in. (610 mm) OC.
   A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

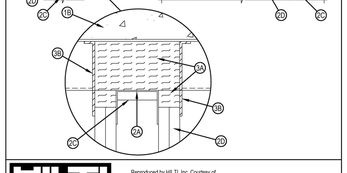
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0042

HWD 0042



CONFIGURATION B



1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted units.
      A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "EC" or "Tuf-Deck".
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* — (Not Shown) Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Tuf-Deck"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* — (Not Shown) Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Tuf-Deck"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 4 in. (97 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
1C. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* — (Not Shown) Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Tuf-Deck"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or by welds spaced max 24 in. (610 mm) OC.
   A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0042

HWD 0042

GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB
ISOLATEK INTERNATIONAL — Type 300

2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
   A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0042

HWD 0042

C. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When Epic Metals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
D. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck units and the top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner. The hourly rating of the joint system is dependent on the hourly rating of the wall.

3. Joint System — Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 1 in. (13 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:
   A. Forming Material* — Nom 4 pcf (64 kg/m3) density mineral wool batt insulation cut with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 25 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner, flush with wall surfaces. Alternately, nom 4 pcf (64 kg/m3) forming material cut to shape of flute and nom 1 in. (25 mm) longer than thickness of wall; mineral wool compressed from ends and firmly packed into each flute to attain a min compression rate of 14.3 percent in the length (wall thickness) direction to be flush with both wall surfaces. When Composite Steel Form and Floor Units (Items 1A1, 1A2) are used, the mineral wool is to be tightly packed into the inverted flutes to be the full thickness of the wall. In addition, for the Epic Metals "Tuf-Deck" deck, the mineral wool is to be packed to min 22% compression within the recessed indentations immediately above the ceiling runners. For the New Millennium Versa-Dek, pieces of mineral wool shall be packed to the maximum depth possible to fill any embossments within the valleys of the fluted deck. Additional 5/8 in. and 1-1/4 in. (16 and 32 mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4 pcf (64 kg/m3) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall.
      INDUSTRIAL INSULATION GROUP, L L C — MinWool-1200 Safing
      ROCK WOOL MANUFACTURING CO — Delta- Board
      ROCKWOOL — SAFE
      THERMAFIBER INC — Type SAF
   A1. Forming Material* — Plugs — (Optional, Not Shown) — Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed 1/2 in. (13 mm) from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0042

HWD 0042

B. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied Fire Resistive Material* is applied to the Steel Floor and Form Units*, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the firestop joint spray shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

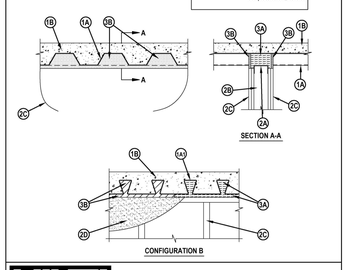
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0045

HWD 0045

Classified by Underwriters Laboratories, Inc. to UL 2079 and CAN/ULC-S115

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 33% Compression of Extension	FH Ratings — 1 and 2 Hr (See Item 2)
	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width – 19 mm
	Class II Movement Capabilities — 33% Compression of Extension



System No. HW-D-0045

HWD 0045

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted floor units.
      A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "EC" or "Tuf-Deck"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "Tuf-Deck" or "ERDR"
      A2. Steel Floor And Form Units* (Configuration B) — Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or by welds spaced max 24 in. (610 mm) OC.
   A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC.
      BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
      CALIFORNIA EXPANDED METAL PRODUCTS CO — CST
      CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H
      MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
      METAL-LITE INC — The System
      RAM SALES L L C — RAM Slotted Track
      SCAFCO STEEL STUD MANUFACTURING CO
      TELLING INDUSTRIES L L C — True-Action Deflection Track
   A2. Light Gauge Framing* — Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
      THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800
   A3. Light Gauge Framing* — Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
      OLMAR SUPPLY INC — Type SCR
   B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When Epic Metals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
   C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel floor units and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units. The hourly rating of the joint system is dependent on the hourly fire rating of the steel floor units.

3. Joint System — Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a packing material and a fill material between the top of the gypsum board and the bottom of the floor or roof, as follows:
   A. Forming Material* — Nom 4 pcf (64 kg/m3) mineral wool batt insulation, cut to the shape of the trapezoidal fluted deck, approx 20 percent larger than the area of the flutes and compressed into the flutes of the steel deck flutes above the ceiling runner. The mineral wool insulation is to project beyond each side of the ceiling runner, recessed 1/2 in. (13 mm) from both wall surfaces. When Composite Steel Form and Floor Units (Items 1A1, 1A2) are used, the mineral wool is to be tightly packed into the inverted flutes and recessed 1/2 in. (13 mm) from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0045

HWD 0045

OLMAR SUPPLY INC — Type SCR
B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When Epic Metals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel floor units and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units. The hourly rating of the joint system is dependent on the hourly fire rating of the steel floor units.

3. Joint System — Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a packing material and a fill material between the top of the gypsum board and the bottom of the floor or roof, as follows:
   A. Forming Material* — Nom 4 pcf (64 kg/m3) mineral wool batt insulation, cut to the shape of the trapezoidal fluted deck, approx 20 percent larger than the area of the flutes and compressed into the flutes of the steel deck flutes above the ceiling runner. The mineral wool insulation is to project beyond each side of the ceiling runner, recessed 1/2 in. (13 mm) from both wall surfaces. When Composite Steel Form and Floor Units (Items 1A1, 1A2) are used, the mineral wool is to be tightly packed into the inverted flutes and recessed 1/2 in. (13 mm) from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck. For the New Millennium Versa-Dek, pieces of mineral wool shall be packed to the maximum depth possible to fill any embossments within the valleys of the fluted deck. For 2 hr assembly, an additional 1-1/2 in. (38 mm) thick by 3/4 in. (19 mm) wide sections of mineral wool batt insulation compressed 50 percent and installed out edge first to fill the 3/4 in. (19 mm) gap between the top of gypsum board and bottom of the steel deck. The forming material shall be recessed 1/2 in. (13 mm) from each side of the wall.
      ROCK WOOL MANUFACTURING CO — Delta Board
      ROCKWOOL — SAFE
      THERMAFIBER INC — Type SAF
   A1. Forming Material* — Plugs — (Optional, Not Shown) — Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed 1/2 in. (13 mm) from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the gypsum board and the bottom of the steel deck, flush with each surface of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. HW-D-0049

HWD 0049

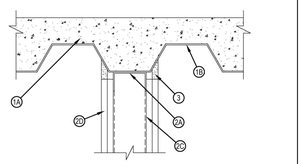
1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      A1. Steel Floor And Form Units* — (Not Shown) Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Tuf-Deck"
      A2. Steel Floor And Form Units* — (Not Shown) Composite max 2 in. (51 mm) deep galv steel fluted units. NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Deck®
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22 SHEETS REDUCED

System No. HW-D-0184

HWD 0184

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 17% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/In ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400°F — Less Than 1 CFM/In ft	Nominal Joint Width - 3/4 In.
	Class II Movement Capabilities — 17% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/In ft
	L Rating At 400°F — Less Than 1 CFM/In ft



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 26, 2023

Hilti Firestop Systems

System No. HW-D-0184

HWD 0184

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted units.
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
   C. Spray-Applied Fire Resistive Materials (Optional) — (Not Shown) — Prior to or after the installation of the ceiling runner and prior to the installation of the Fill, Void or Cavity Materials (Items 2A and 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness of fire resistive material.
      GCP APPLIED TECHNOLOGIES INC Type MK-6HY
   1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
      A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      1B. Roof Insulation — Min 2-1/4 in. (57 mm) thick polyisocyanurate insulation, as measured from the top plane of the steel roof deck.
   2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
      A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1-1/4 in. (32 mm) and 2 in. (51 mm). Ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
      A1. Light Gauge Framing* - Slotted Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, slotted deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened with runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
         OLMAR SUPPLY INC — Type SCR
      B. Steel Attachment Clips — (Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.
      C. Studs — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
      D. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel deck and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units.
         The hourly fire rating of the joint system is equal to the hourly rating of the wall.
   3. Fill, Void or Cavity Material* — Sealant - Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of the steel deck, flush with each surface of wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S Elastomeric Firestop Sealant or CP 606 Flexible Firestop Sealant or CFS-S SIL GG Sealant, L Ratings apply when CP 606 or CFS-S SIL GG Sealant is used.
   4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 26, 2023

Hilti Firestop Systems

System No. HW-D-0184

HWD 0184

A2. Light Gauge Framing* - Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened with runner. Slotted clip provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
   OLMAR SUPPLY INC — Type SCR
B. Steel Attachment Clips — (Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to with Z-shaped clips formed from min. 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds spaced max 24 in. (610 mm) OC.
C. Studs — Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
D. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For both hourly ratings, a nominal 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel deck and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units.
   The hourly fire rating of the joint system is equal to the hourly rating of the wall.
3. Fill, Void or Cavity Material* — Sealant - Max separation between bottom of floor or roof and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. Min 5/8 in. (16 mm) thickness of fill material installed on each side of the wall between the top of the gypsum board and the bottom of the steel deck, flush with each surface of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 601S Elastomeric Firestop Sealant or CP 606 Flexible Firestop Sealant or CFS-S SIL GG Sealant, L Ratings apply when CP 606 or CFS-S SIL GG Sealant is used.
4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

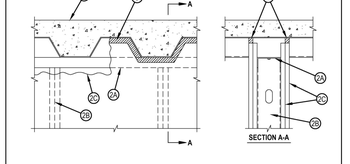
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 26, 2023

Hilti Firestop Systems

System No. HW-D-0324

HWD 0324

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 17% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/In ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400°F — Less Than 1 CFM/In ft	Nominal Joint Width - 3/4 In.
	Class II Movement Capabilities — 17% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/In ft
	L Rating At 400°F — Less Than 1 CFM/In ft



1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted floor units.
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
   C. Spray-Applied Fire Resistive Materials* — (Optional, Not Shown)—Prior to the installation of the steel ceiling runners (Item 2B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material.
      ISOLATEK INTERNATIONAL — Type 300
      GCP APPLIED TECHNOLOGIES INC — Type MK-6HY or MK-10HB
   D. Steel Attachment Clips — (Optional, Not Shown) - Used to secure ceiling runner when spray-applied fire resistive material is applied to floor units prior to installation of ceiling runner of wall. Z-shaped clips formed from 1 in. (25 mm) wide strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the floor units with 1-1/2 in. (38 mm) long upper and lower legs. Legs of clips fastened to bottom of roof deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 16 in. (406 mm) OC and extend to within 1/4 to 3/4 in. (6 to 19 mm) from the surface of the wall.
   1A. Roof Assembly — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
      A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      B. Roof Insulation — Min 2-1/4 in. (57 mm) thick polyisocyanurate insulation, as measured from the top plane of the steel roof deck.
      1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
      A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      B. Steel Attachment Clips — (Optional, Not Shown) - Used to secure ceiling runner when spray-applied fire resistive material is applied to roof deck prior to installation of ceiling runner of wall. Z-shaped clips formed from 1 in. (25 mm) wide strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the roof deck with 1-1/2 in. (38 mm) long upper and lower legs. Legs of clips fastened to bottom of roof deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 16 in. (406 mm) OC and extend to within 1/4 to 3/4 in. (6 to 19 mm) from the surface of the wall.
      C. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of the steel ceiling runners, the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.
         ISOLATEK INTERNATIONAL — Type 300
         GCP APPLIED TECHNOLOGIES INC — Type MK-6HY or MK-10HB
2. Shaft Wall Assembly — The 1 hr or 2 hr fire rated gypsum board/steel stud shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Floor and Wall Runners — (Not Shown) - J-shaped runner, equal in width to steel studs (Item 2C), with unequal legs of 1 in. (25 mm) and 2 in. (51 mm), fabricated from 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to floor with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) OC.
   B. Ceiling Runner — Ceiling runner of wall assembly shall consist of galv steel channel sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed parallel with direction of fluted steel deck and secured to steel deck valley before or after optional spray-applied fire resistive material is used with steel fasteners or welds spaced max 24 in. (610 mm) OC or to steel attachment clips (Item 1D) with steel fasteners spaced max 16 in. (406 mm) OC. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0324

HWD 0324

2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
   A1. Light Gauge Framing* -Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC.
      CEMCO, LLC — CST
      BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
      MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
   A2. Light Gauge Framing* -Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel floor units and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC.
      CEMCO, LLC — CST
      BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
      MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
   B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 in. (13 mm) to 3/4 in. (19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner is used, steel studs secured to slotted vertical deflection clips, through bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.
   C. Gypsum Board* — One or two layers of 5/8 in. (16 mm) thick gypsum board on each side of wall. Wall to be constructed as specified in the individual Wall and Partition Design, except that the gypsum board is cut to fit the curve of the steel floor units or spray-applied fire resistive material with a max 3/4 (19 mm) in. gap. The screws attaching the gypsum board to the studs at the top of the first layer shall be located 4 in. (102 mm) from the steel floor unit valleys. The screws attaching the gypsum board layer to the steel studs shall be located 3-1/2 in. (89 mm) from the valleys of the steel floor units.
      The hourly fire rating of the joint system is equal to the hourly rating of the wall.
3. Fill, Void or Cavity Material* - Sealant – Max separation between bottom of floor or roof units and top of gypsum board at time of installation is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. A 5/8 in. (16 mm) thickness of fill material installed within the annulus between top of gypsum board and bottom of floor units or spray-applied fire resistive material flush with surface of board on both sides of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant
4. Forming Material — (Optional, Not Shown) - Mineral wool insulation, fiberglass batt insulation or polyurethane/polyethylene foam backer rod. Forming material to be recessed from surfaces of the 2 hr fire rated wall to accommodate the required thickness of fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

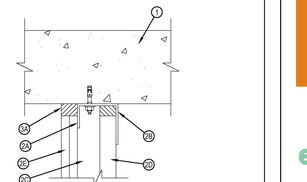
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0342

HWD 0342

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 2 Hr	F Rating — 2 Hr
Nominal Joint Width - 1 In.	FT Rating — 2 Hr
Class II Movement Capabilities — 8% Compression and Extension	FH Rating — 2 Hr
L Rating At Ambient — Less Than 1 CFM/In ft	FTH Rating — 2 Hr
L Rating At 400°F — Less Than 1 CFM/In ft	Nominal Joint Width - 1 In.
	Class II Movement Capabilities — 8% Compression and Extension
	L Rating At Ambient — Less Than 1 CFM/In ft
	L Rating At 400°F — Less Than 1 CFM/In ft



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0342

HWD 0342

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.
   See Precast Concrete Units category in the Fire Resistance Directory for names of manufacturers.
2. Shaft Wall Assembly — The 2 hr fire-rated gypsum board /steel stud shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Floor and Ceiling Runners — J-shaped runner, 2-1/2 in. (64 mm) wide with unequal legs of min 1-1/4 in. (32 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) OC.
   B. Light Gauge Framing* - Slotted Ceiling Track — (Optional) Slotted ceiling track shall consist of galv steel channels with slotted flanges. Slotted ceiling track sized to accommodate steel "C-H" studs (Items 2C). Attached to concrete at ceiling with steel fasteners spaced max 24 in. (610 mm) OC.
      CEMCO, LLC — CST
      BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK
      MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
   B1. Light Gauge Framing Members* — (Optional Not Shown) - As an option, the steel studs (Item 2C) may incorporate vertical deflection clips for attachment to the ceiling runner (Item 2A) in accordance with the manufacturer's instructions.
      THE STEEL NETWORK INC — VertiClip SLD 150.
   C. Steel Studs — C-H shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min 25 MSG galv steel, cut to lengths 3/8 to 1/2 in. (10 to 13 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. Studs nest in floor runner at bottom and J runner or slotted ceiling track at top. After installation of gypsum board liner panels (Item 2D), studs secured to flange of floor runner on finished side of wall only with No. 6 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slotted ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wafer head steel screws at slot midheight.
   D. Gypsum Board* — 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in the individual U400 or V400-Series design. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted in "I"-shaped section of "C-H" studs. At the ends of the assembly, the free edge of the end panels are attached to the long leg of vertical J-runners (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.
   E. Gypsum Board* — Gypsum board sheets, 1/2 or 5/8 in. (13 or 16 mm) thick, applied vertically or horizontally in two layers on finished side of wall as specified in the individual U400 or V400-Series design. A max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the concrete floor. The screws attaching the gypsum board layers to the C-H studs shall be located 1 in. (25 mm) below the bottom of the J-runner or slotted ceiling track. No gypsum board attachment screws are to penetrate the ceiling J-runner and slotted ceiling track.
3. Joint System — Max separation between top of liner panel (Item 2D) and bottom of gypsum board sheets (Item 2E) at time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a maximum 8 percent compression and extension from its installed width. The joint system consists of the following:
   A. Fill, Void or Cavity Material* - Sealant — Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board liner panel (Item 2D) and top inside surface of ceiling J-runner or slotted ceiling track prior to installation of gypsum board (Item2DE) on finished side of wall. Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board sheets (Item 2E) and bottom of concrete floor.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606, CFS-S SIL GG

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

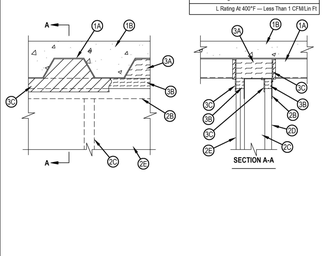
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0569

HWD 0569

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 50% Compression and Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/In Ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400°F — Less Than 1 CFM/In Ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 50% Compression and Extension
	L Rating At Ambient — Less Than 1 CFM/In Ft
	L Rating At 400°F — Less Than 1 CFM/In Ft



Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0569

HWD 0569

1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The floor assembly shall include the following construction features:
   A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv fluted floor units.
   B. Concrete — Min 2-1/2 in. (64 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete, as measured from the top plane of the floor units.
   C. Spray-Applied Fire Resistive Materials* — (Optional, Not Shown) — Prior to or after installation of the steel ceiling runners (Item 2B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material.
      ISOLATEK INTERNATIONAL — Type 300
   D. Steel Attachment Clips — (Optional, Not Shown) - Used to secure ceiling runner when spray-applied fire resistive material is applied to floor units prior to installation of ceiling runner of wall. Z-shaped clips formed from 1 in. (25 mm) wide strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the floor units with 1-1/2 in. (38 mm) long upper and lower legs. Legs of clips fastened to bottom of roof deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 16 in. (406 mm) OC and extend to within 1/4 to 3/4 in. (6 to 19 mm) from the surface of the wall.
   1A. Roof Assembly — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
      A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      B. Roof Insulation — Min 2-1/4 in. (57 mm) thick polyisocyanurate insulation, as measured from the top plane of the steel roof deck.
      1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
      A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
      B. Steel Attachment Clips — (Optional, Not Shown) - Used to secure ceiling runner when spray-applied fire resistive material is applied to roof deck prior to installation of ceiling runner of wall. Z-shaped clips formed from 1 in. (25 mm) wide strips of min 20 ga galv steel. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the roof deck with 1-1/2 in. (38 mm) long upper and lower legs. Legs of clips fastened to bottom of roof deck (prior to application of spray-applied fire-resistive materials) with steel fasteners or welds. Clips spaced max 16 in. (406 mm) OC and extend to within 1/4 to 3/4 in. (6 to 19 mm) from the surface of the wall.
      C. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of the steel ceiling runners, the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.
         ISOLATEK INTERNATIONAL — Type 300
         GCP APPLIED TECHNOLOGIES INC — Type MK-6HY or MK-10HB
2. Shaft Wall Assembly — The 1 hr or 2 hr fire rated gypsum board/steel stud shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Floor and Wall Runners — (Not Shown) - J-shaped runner, equal in width to steel studs (Item 2C), with unequal legs of 1 in. (25 mm) and 2 in. (51 mm), fabricated from 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to floor with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) OC.
   B. Ceiling Runner — Ceiling runner of wall assembly shall consist of galv steel channel sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed parallel with direction of fluted steel deck and secured to steel deck valley before or after optional spray-applied fire resistive material is used with steel fasteners or welds spaced max 24 in. (610 mm) OC or to steel attachment clips (Item 1D) with steel fasteners spaced max 16 in. (406 mm) OC. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 27, 2023

Hilti Firestop Systems

System No. HW-D-0569

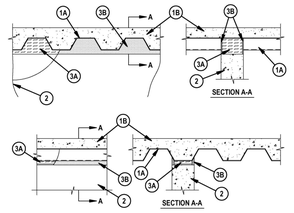
HWD 0569

B1. Light Gauge Framing* - Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2B, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Flange height of slotted ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Slotted ceiling runner installed perpendicular to direction of fluted steel deck valleys before or after optional spray-applied fire resistive material is used with steel masonry anchors spaced max 24 in. (610 mm) OC. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
   BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK, SLPTRK25
   CEMCO, LLC — CST
   CLARKDIETRICH BUILDING SYSTEMS — Types SLT, SLT-H
   MARINOWARE, DIV OF WARE INDUSTRIES INC — Type SLT
   METAL-LITE INC — The System
   RAM SALES I, L C — RAM Slotted Track
   SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track
   TELLING INDUSTRIES L L C — True-Action Deflection Track
B2. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2B through 2B1, slotted ceiling runner to consist of galv steel channel, sized to accommodate steel studs (Item 2C). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel with direction of fluted steel deck and secured to steel deck valleys as described in Item B1.
   SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT
C. Steel Studs — C-H-shaped studs, min 4 in. (102 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from 25 MSG galv steel, cut to lengths 3/4 to 1 in. (19 to 25 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. When slotted ceiling runner specified in Item 2B2 is used the C-H-shaped studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC.
D. Gypsum Board* — Nom 1 in. (25 mm) thick gypsum board liner panels. Panels cut 1-1/2 in. (38 mm) less in length than floor to ceiling height. Vertical edges inserted in H-shaped section of C-H studs. At the ends of the assembly, the free edge of the end panels are attached to the long leg of vertical J-runners (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.
E. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board applied vertically in one or two layers for 1 hr and 2 hr fire rated assemblies, respectively. Panels cut 1-1/2 in. (38 mm) less in length than floor to ceiling height. The screws attaching the gypsum board layers to the C-H studs shall be located 1 to 1-1/2 in. (25 to 38 mm) below the bottom of the ceiling runner or slotted ceiling track. No gypsum board attachment screws are to penetrate the ceiling runner or slotted ceiling track.
   The hourly ratings of the joint system are equal to the hourly fire rating of the wall.
3. Joint System — Max separation between bottom of fluted deck surface and top of gypsum board (at the time of installation of the joint system) is 1 1/2 in. (38 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of the following:
   A. Forming Material* — Min 4 pcf (64 kg/m3) density mineral wool batt insulation cut to a thickness twice larger than the distance between the top of the gypsum board and the bottom of the steel floor unit. Material compressed 50 percent and installed within ceiling runner above top of liner panel

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS

HWD 0081

System No. HW-D-0081
Assembly Rating - 2 Hr
Nominal Joint Width - 3/4 in.
Class II Movement Capabilities - 33% Compression or Extension



1. Floor Assembly — The fire-rated fluted steel floor unitconcrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* — Max 3 in. deep galv steel fluted floor units.
   B. Concrete — Min 2-1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.

1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. deep galv steel fluted roof deck.
   B. Roof Insulation — Min 2-1/4 in. thick poured insulating concrete, as measured from the top plane of the floor units.

2. Wall Assembly — Min 5 in. thick steel reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of an UL Classified Concrete Blocks*.
   See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
April 15, 2009

Hilti Firestop Systems

HWD 0081

System No. HW-D-0081
Assembly Rating - 2 Hr
Nominal Joint Width - 3/4 in.
Class II Movement Capabilities - 33% Compression or Extension

3. Joint System — Max separation between bottom of floor or roof and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent compression or extension from its installed width. The joint system consists of a packing material and a fill material between the top of the wall and the bottom of the floor or roof, as follows:

Configuration A
   A. Forming Material — Min 4 in. thickness of 4 pcf density mineral wool batt insulation was cut to the shape of the fluted deck, approximately 20 percent larger than the area of the flutes and compressed into the flutes of the steel deck above the wall assembly. The forming material shall be recessed 1/2 in. from each side of the wall. Additional pieces of forming material, compressed min 50 percent in thickness and installed edge first into joint opening between bottom of steel deck and top of wall, parallel with joint direction. Compressed batt sections recessed 1/2 in. from both wall surfaces. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. apart along the length of the joint.
   FIBREX INSULATIONS INC — FBX Safing Insulation
   A1. Forming Material*—Plugs — (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted deck, friction fit to completely fill the flutes. The plugs shall be recessed 1/2 in. from both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and bottom of steel deck.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI,INC — CP777 Speed Plugs
   B. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. thickness of fill material installed on each side of the wall in the flutes of the steel deck and between the top of the wall and the bottom of the steel deck, flush with each surface of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

Configuration B
   A. Forming Material — Min 4 in. thickness of 4 pcf density mineral wool batt insulation compressed min 50 percent in thickness and installed edge first into joint opening between bottom of steel deck and top of wall, parallel with joint direction. Compressed batt sections recessed 1/2 in. from both wall surfaces. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. apart along the length of the joint.
   FIBREX INSULATIONS INC — FBX Safing Insulation
   B. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. thickness of fill material installed on each side of the wall between the top of the wall and the bottom of the steel deck, flush with each surface of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

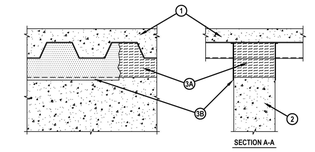
*Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
April 15, 2009

Hilti Firestop Systems

HWD 1037

System No. HW-D-1037
Assembly Rating - 2 Hr
Nominal Joint Width - 3-1/2 in.
Class II Movement Capabilities - 14% Compression and Extension



1. Floor Assembly — The fire-rated fluted steel floor unitconcrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted floor units.
   B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
   C. Spray-Applied Fire Resistive Materials* — (Optional)—(Not Shown)—Prior to the installation of the forming material and fill, void or cavity material (Items 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material.
      W R GRACE & CO - CONN — Type MK-6 HY

1A. Roof Assembly (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
   B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.
   B. Spray-Applied Fire Resistive Materials* — (Not Shown) - Prior to the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.

2. Wall Assembly — Min 8 in. (203 mm) thick steel reinforced lightweight or normal weight (100-150 pcf) (1600- 2400 kg/m3) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
June 07, 2010

Hilti Firestop Systems

HWD 1037

System No. HW-D-1037
Assembly Rating - 2 Hr
Nominal Joint Width - 3-1/2 in.
Class II Movement Capabilities - 14% Compression and Extension

3. Joint System — Max separation between bottom of floor units and top of concrete wall at time of installation is 3-1/2 in. (89 mm). The joint system is designed to accommodate a max 14 percent compression or extension from its installed width. The joint system shall consists of the following:
   A. Forming Material* — Nom 4 in. (102 mm) thick pieces of nom 4 pcf (64 kg/m3) forming material sized to attain a min compression rate of 50 percent in the thickness direction firmly packed to completely fill the flutes. Additional pieces of batt insulation, min 8 in. (203 mm) wide, shall be compressed 50 percent in thickness and installed edge first into joint opening between bottom of fluted floor or roof units and top of concrete wall.
      THERMAFIBER INC — Type SAF
   A1. Forming Material*—Plugs — (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling runner. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and the bottom of the steel floor units.
      HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs
   A2. Forming Material — As an alternate to Item 3A, min 6 pcf (96 kg/m3) ceramic blanket insulation installed in joint as a permanent form. Nominal 4 in (102 mm) thick pieces of nominal 6 pcf (96 kg/m3) forming material sized to attain a min compression rate of 50 percent in the thickness direction firmly packed to completely fill the flutes. Additional pieces of batt insulation, min 8 in. (203 mm) wide, shall be compressed 50 percent in thickness and installed edge first into joint opening between bottom of fluted floor or roof units and top of concrete wall.
   B. Fill, Void or Cavity Material* - Sealant — A 1/8 in. (3.2 mm) wet thickness of fill material sprayed of troweled on each side of wall to completely cover mineral wool forming material and to overlap a min 1/2 in. (13 mm) onto steel floor units and concrete wall. When spray-applied fire resistive material* is applied to the steel deck, the fill material is to overlap the wall a min ½ in. and the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.
      HILTI CONSTRUCTION CHEMICALS, DIV OF
      HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.
June 07, 2010

Hilti Firestop Systems

NOTE: CONTRACTOR TO PROVIDE ENGINEERED JUDGEMENT FOR CMU HEAD CONDITION AT NON-RATED ROOF IF REQUIRED BY THE AHJ.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
869.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

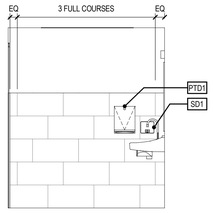
JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

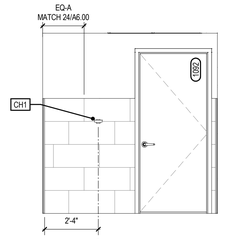
SHEET TITLE AND NUMBER:

A5.93

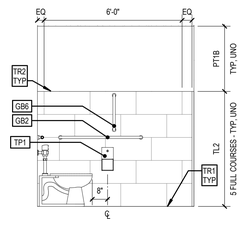
UL JOINTS- CONCRETE OR MASONRY WALL



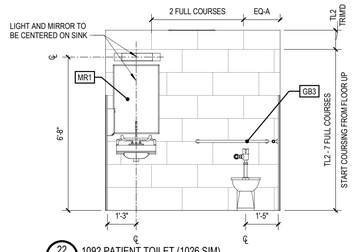
25 A6.00 1092 PATIENT TOILET (1026 SIM)
3/8" = 1'-0"



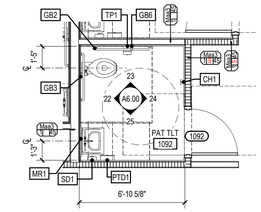
24 A6.00 1092 PATIENT TOILET (1026 SIM)
3/8" = 1'-0"



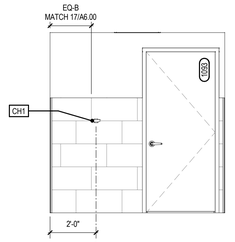
23 A6.00 1092 PATIENT TOILET (1026 SIM)
3/8" = 1'-0"



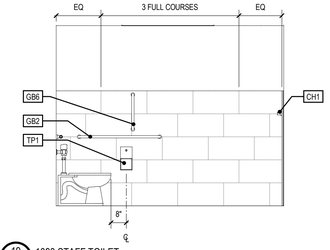
22 A6.00 1092 PATIENT TOILET (1026 SIM)
3/8" = 1'-0"



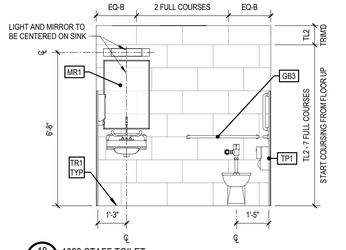
21 A6.00 ENLARGED PLAN - 1092 PATIENT TOILET (1026 SIM)
1/4" = 1'-0"



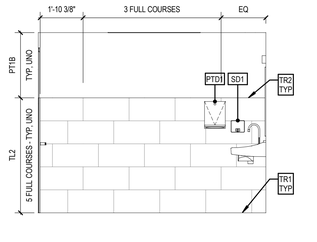
20 A6.00 1093 STAFF TOILET
3/8" = 1'-0"



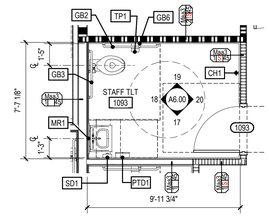
19 A6.00 1093 STAFF TOILET
3/8" = 1'-0"



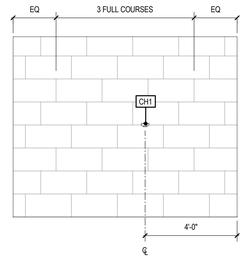
18 A6.00 1093 STAFF TOILET
3/8" = 1'-0"



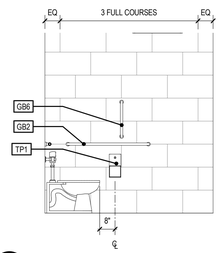
17 A6.00 1093 STAFF TOILET
3/8" = 1'-0"



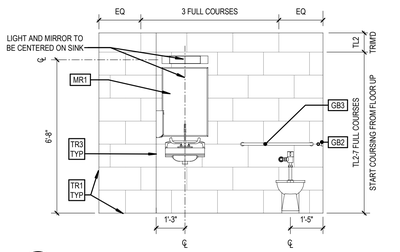
16 A6.00 ENLARGED PLAN - 1093 STAFF TOILET
1/4" = 1'-0"



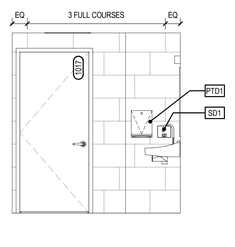
15 A6.00 1017 PUBLIC TLT (1018 OPP. HAND)
3/8" = 1'-0"



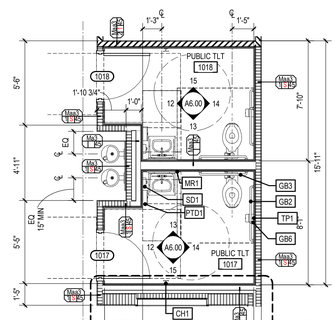
14 A6.00 1017 PUBLIC TLT (1018 OPP. HAND)
3/8" = 1'-0"



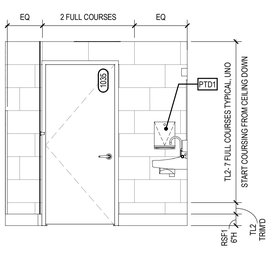
13 A6.00 1017 PUBLIC TLT (1018 OPP. HAND)
3/8" = 1'-0"



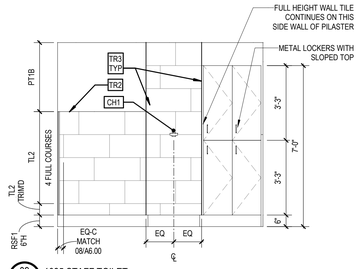
12 A6.00 1017 PUBLIC TLT (1018 OPP. HAND)
3/8" = 1'-0"



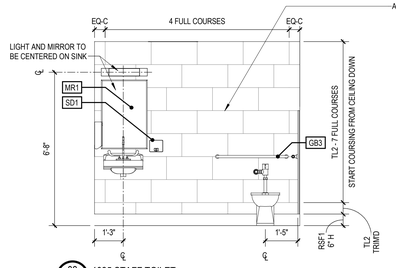
11 A6.00 ENLARGED PLAN - 1017, 1018 PUBLIC TOILETS
1/4" = 1'-0"



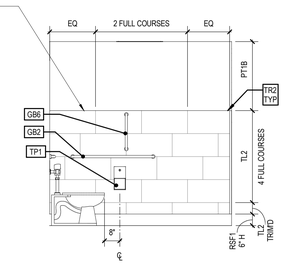
10 A6.00 1035 STAFF TOILET
3/8" = 1'-0"



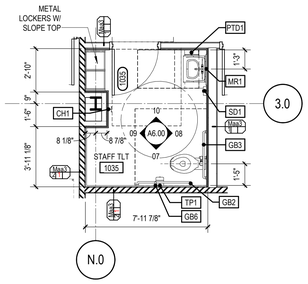
09 A6.00 1035 STAFF TOILET
3/8" = 1'-0"



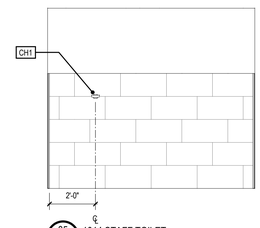
08 A6.00 1035 STAFF TOILET
3/8" = 1'-0"



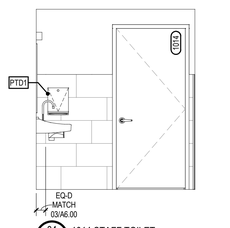
07 A6.00 1035 STAFF TOILET
3/8" = 1'-0"



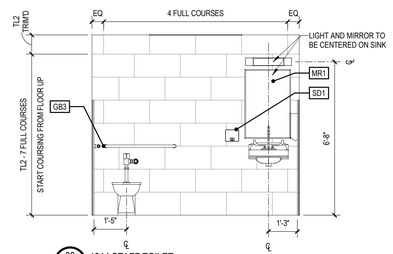
06 A6.00 ENLARGED PLAN - 1035 STAFF TOILET
1/4" = 1'-0"



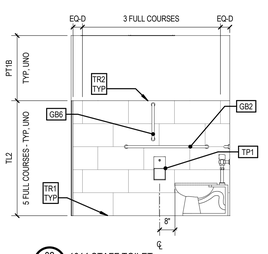
05 A6.00 1014 STAFF TOILET
3/8" = 1'-0"



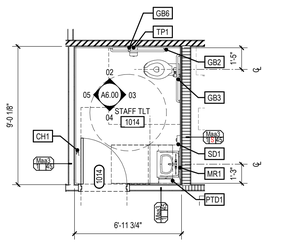
04 A6.00 1014 STAFF TOILET
3/8" = 1'-0"



03 A6.00 1014 STAFF TOILET
3/8" = 1'-0"



02 A6.00 1014 STAFF TOILET
3/8" = 1'-0"



01 A6.00 ENLARGED PLAN - 1014 STAFF TOILET
1/4" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWINGS. ADJUST SCALES ACCORDINGLY IF NOT.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

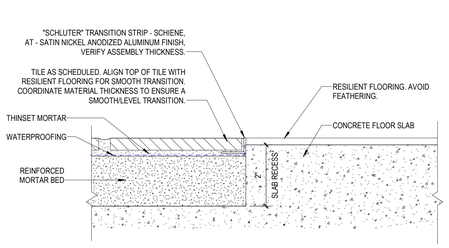
CURRENT:

SHEET TITLE AND NUMBER:

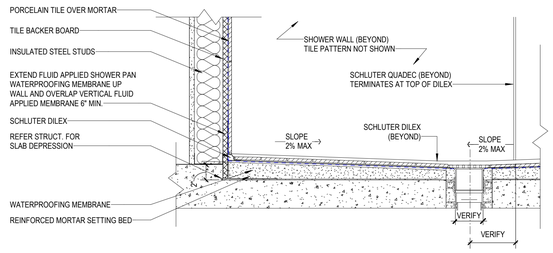
A6.00

ENLARGED PLANS & INTERIOR ELEVATIONS - TOILETS

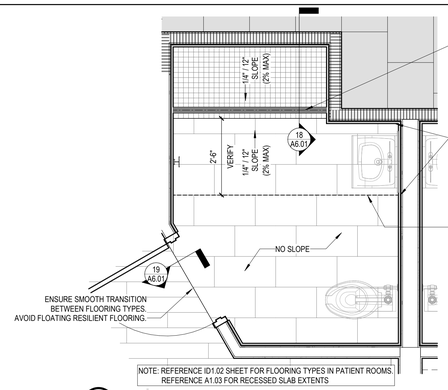
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100% ON ORIGINAL ARCH D SHEETS



19 A6.01 FLOORING TRANS. - PORCELAIN TO RESILIENT AT PAT RM TLT RMS
6" = 1'-0"

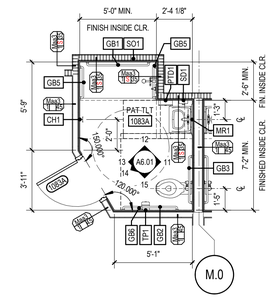


18 A6.01 ROLL IN SHOWER SECTION - TYPICAL
1 1/2" = 1'-0"

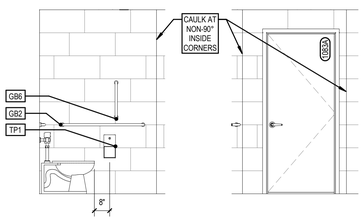


NOTE: REFERENCE ID1.02 SHEET FOR FLOORING TYPES IN PATIENT ROOMS. REFERENCE A1.03 FOR RECESSED SLAB EXTENTS

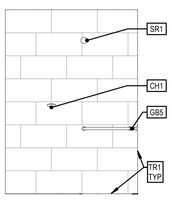
17 A6.01 ENLARGED PLAN- TYP. PATIENT TOILET (1083)
1/2" = 1'-0"



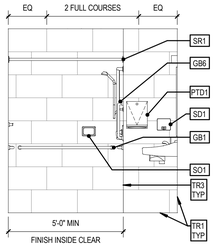
16 A6.01 ENLARGED PLAN- TYP PATIENT TOILET (1083)
1/4" = 1'-0"



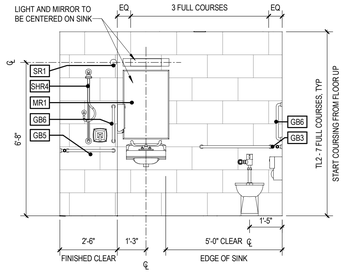
15 A6.01 TYP PATIENT TOILET RM
3/8" = 1'-0"



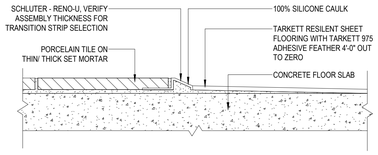
14 A6.01 TYP PATIENT TOILET RM
3/8" = 1'-0"



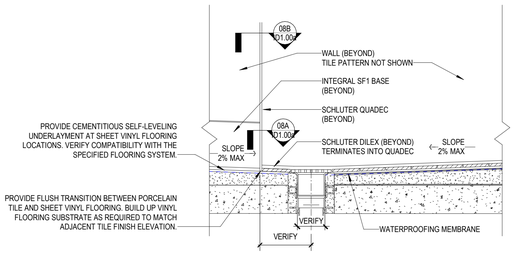
13 A6.01 TYP PATIENT TOILET RM
3/8" = 1'-0"


LIGHT AND MIRROR TO BE CENTERED ON SINK
EQ
3 FULL COURSES
EQ
SR1
SHR1
MR1
GB6
GB5
GB6
GB3
6'-8"
TYP
TYP
TYP

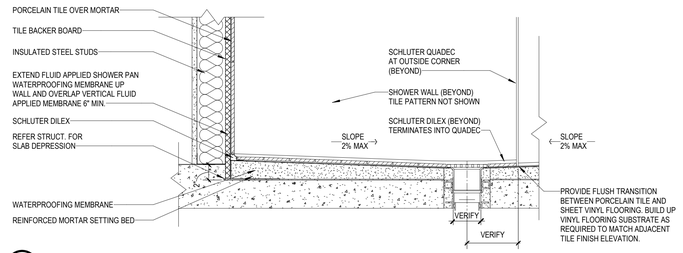
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH D SHEETS



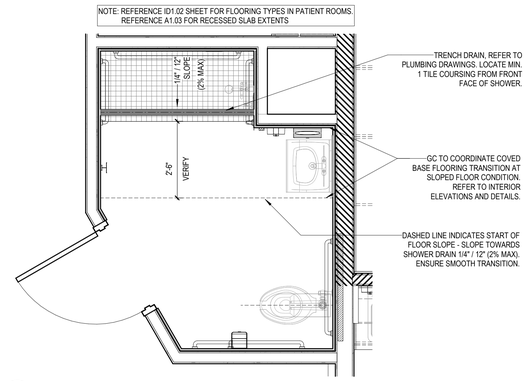
16 A6.02 FLOORING TRANSITION - PORCELAIN TO SHEET FLOORING - Aii PAT TLT
6" = 1'-0"



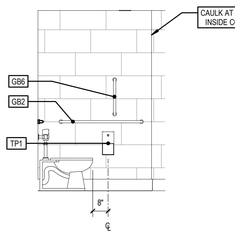
15 A6.02 ROLL IN SHOWER SECTION - Aii TOILET RM (STRAIGHT WALL)
1 1/2" = 1'-0"



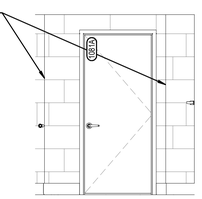
14 A6.02 ROLL IN SHOWER SECTION - ISO TOILET RM (OUTSIDE CORNER)
1 1/2" = 1'-0"



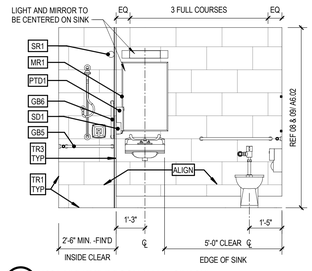
13 A6.02 ENLARGED PLAN - Aii PATIENT TOILET (1081)
1/2" = 1'-0"



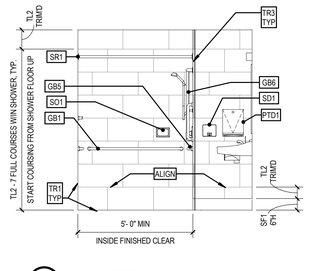
12 A6.02 1081 Aii PAT TLT RM (1111A SIM/ OH)
3/8" = 1'-0"



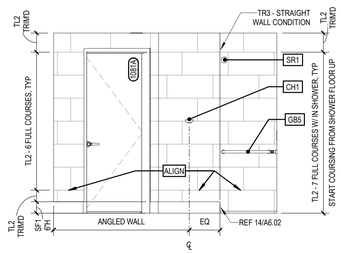
11 A6.02 1081 Aii PAT TLT ROOM (1111A SIM/ OH)
3/8" = 1'-0"



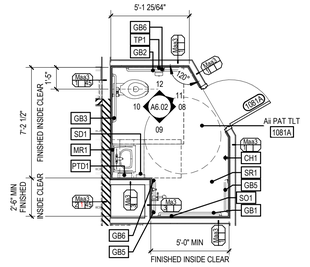
10 A6.02 1081 Aii PAT TLT ROOM (1111A SIM/ OH)
3/8" = 1'-0"



09 A6.02 1081 Aii PAT TLT ROOM (1111A SIM/ OH)
3/8" = 1'-0"



08 A6.02 1081 Aii PAT TLT ROOM (1111A SIM/ OH)
3/8" = 1'-0"



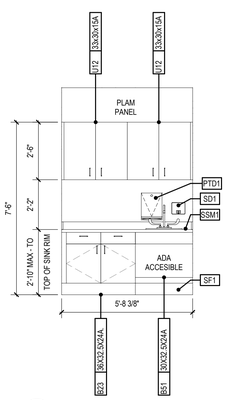
07 A6.02 ENLARGED PLAN- Aii PAT TLT ROOM (1111A SIM/ OH)
1/4" = 1'-0"

06 A6.02 Aii PAT ROOM HEADWALL (1111 SIM/ OH)
3/8" = 1'-0"

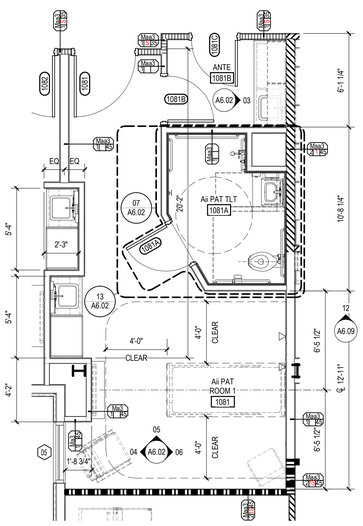
05 A5.60 Aii PAT ROOM (1111 SIM/ OH)
3/8" = 1'-0"

04 A6.02 Aii PAT ROOM 1081 FOOTWALL (1111 SIM/ OH)
3/8" = 1'-0"

02 A6.02 ENLARGED RCP- Aii PATIENT ROOM 1080 (1111 SIM/ OH)
1/4" = 1'-0"



03 A6.02 ANTE 1081B (1111B SIM/ OH)
3/8" = 1'-0"



01 A6.02 ENLARGED PLAN- Aii PATIENT ROOM 1081 (1111 SIM/ OH)
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

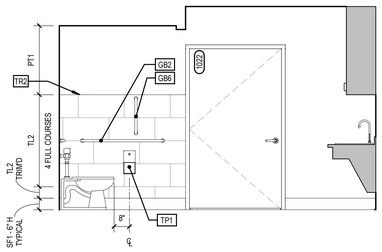
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

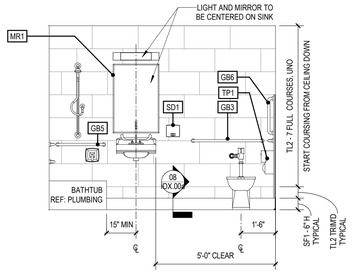
A6.02

ENLARGED PLANS, ELEVATIONS & DETAILS - TYP Aii PAT ROOM

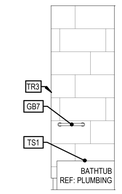
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCHITECTURAL SHEETS



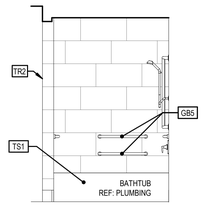
12 A6.03 1022A ADL TOILET ROOM
3/8" = 1'-0"



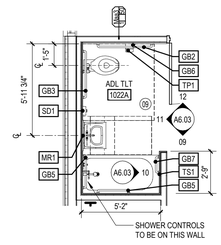
11 A6.03 1022A ADL TOILET ROOM
3/8" = 1'-0"



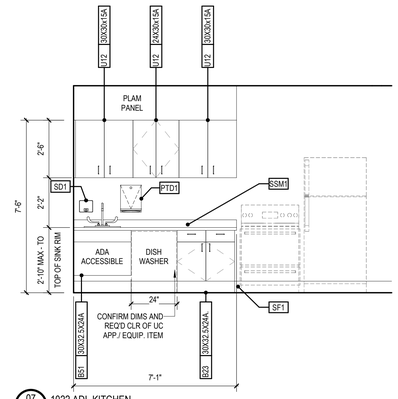
10 A6.03 1022A ADL TOILET ROOM
3/8" = 1'-0"



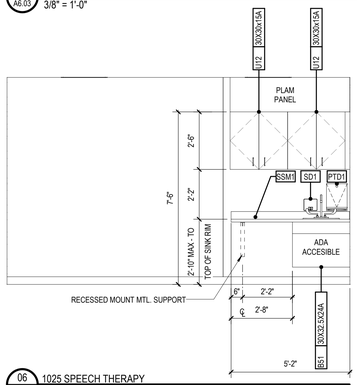
09 A6.03 1022A ADL TOILET ROOM
3/8" = 1'-0"



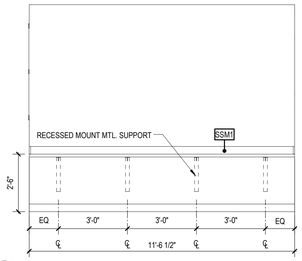
08 A6.03 ENLARGED PLAN - 1022A ADL TOILET ROOM
1/4" = 1'-0"



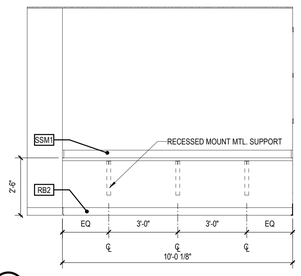
07 A6.03 1022 ADL KITCHEN
3/8" = 1'-0"



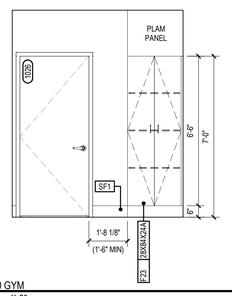
06 A6.03 1025 SPEECH THERAPY
3/8" = 1'-0"



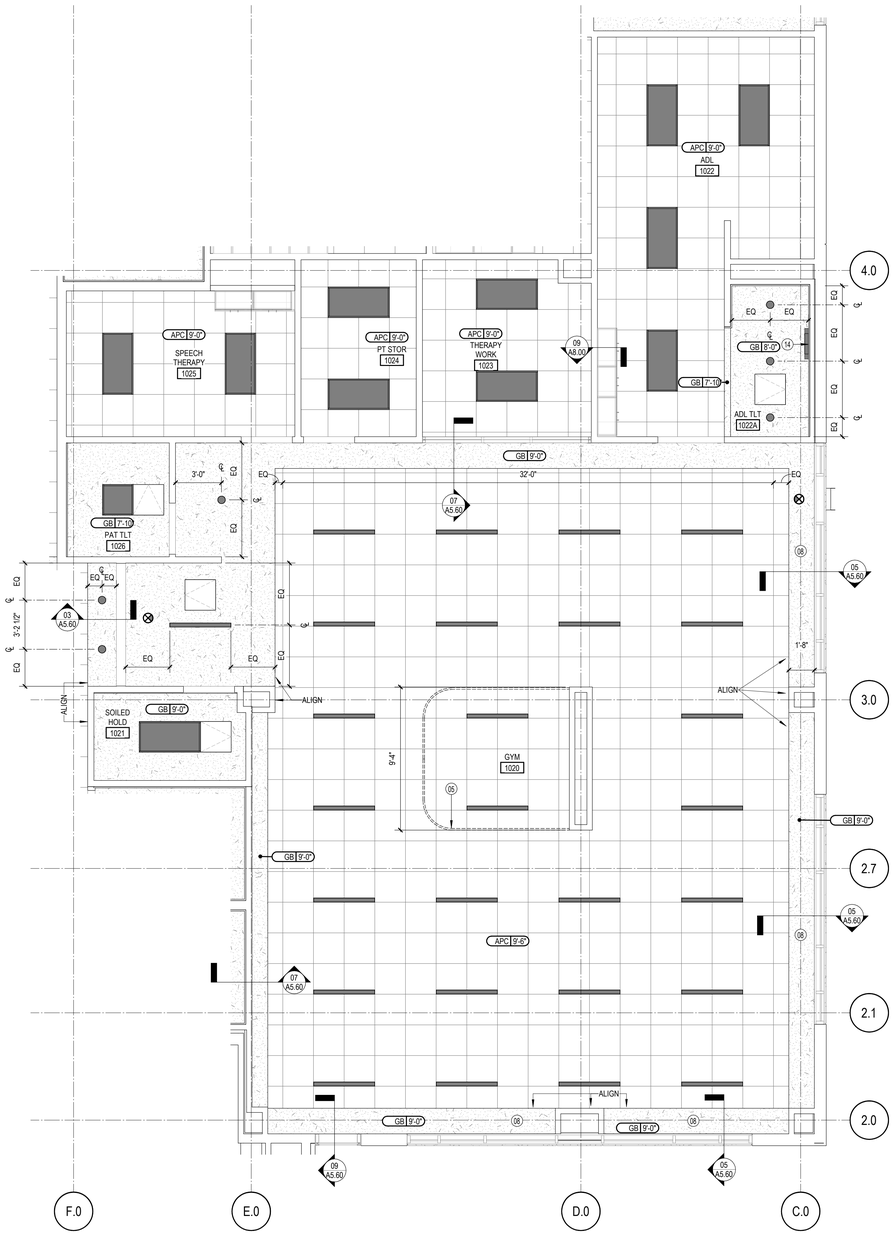
05 A6.03 1023 THERAPY WORK
3/8" = 1'-0"



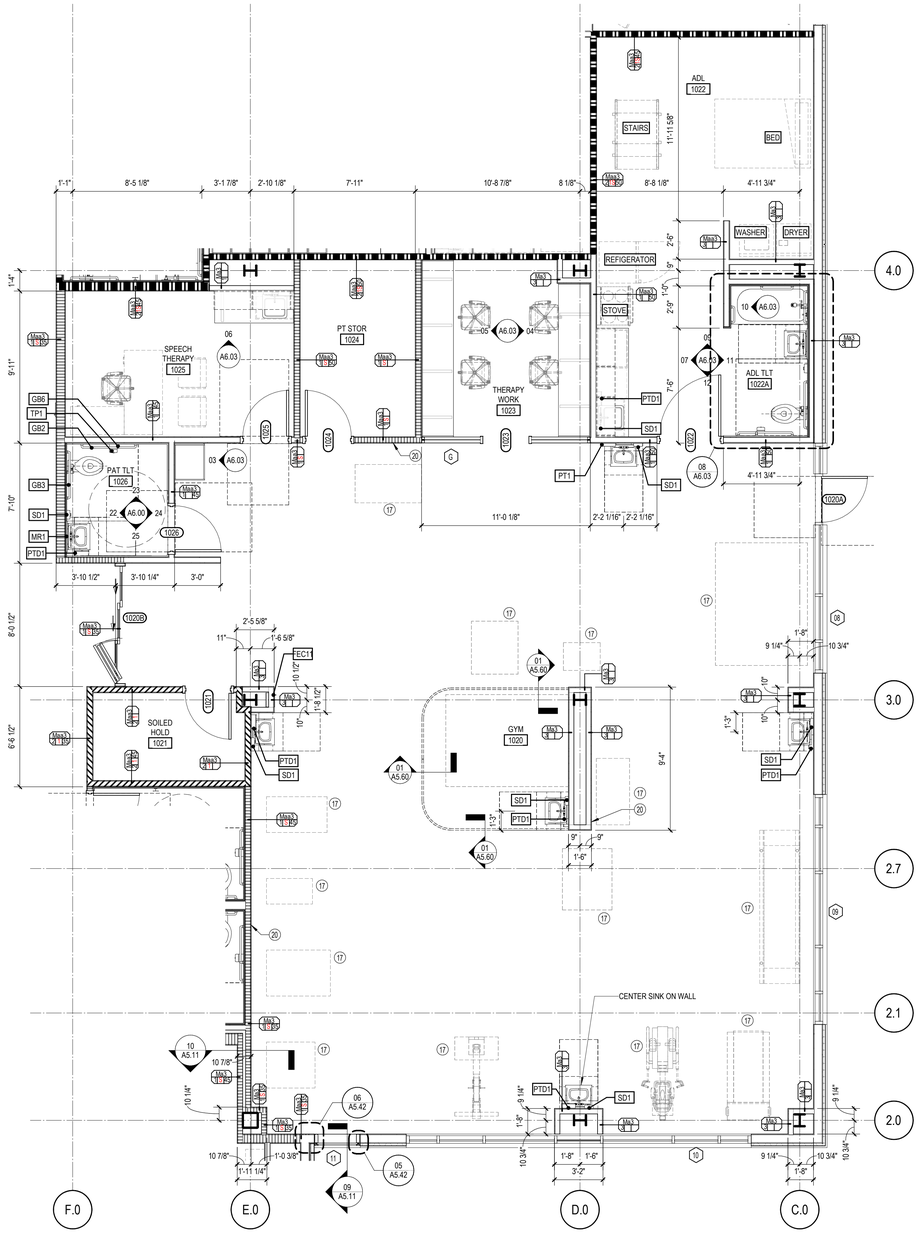
04 A6.03 1023 THERAPY WORK
3/8" = 1'-0"



03 A6.03 1020 GYM
3/8" = 1'-0"



02 A6.03 ENLARGED RCP - 1020 GYM
1/4" = 1'-0"



01 A6.03 ENLARGED PLAN - 1020 GYM
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
exalt health
RYAN
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

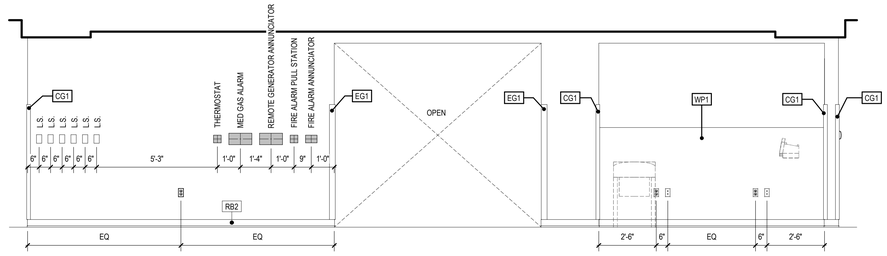
JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

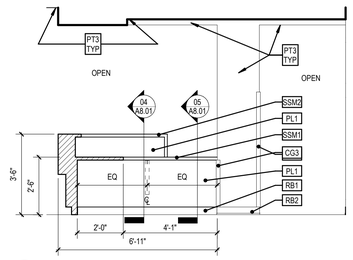
SHEET TITLE AND NUMBER:

A6.03

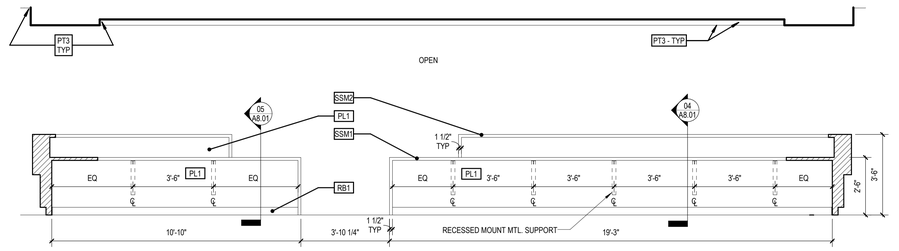
ENLARGED PLANS & INTERIOR ELEVATIONS - GYM



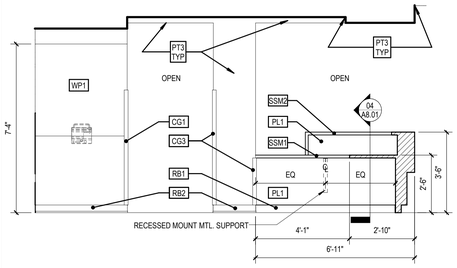
13 A6.04 1095 NURSE STATION, 1096 ALCOVE
3/8" = 1'-0"



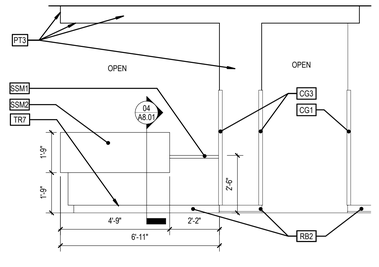
12 A6.04 1095 NURSE STATION
3/8" = 1'-0"



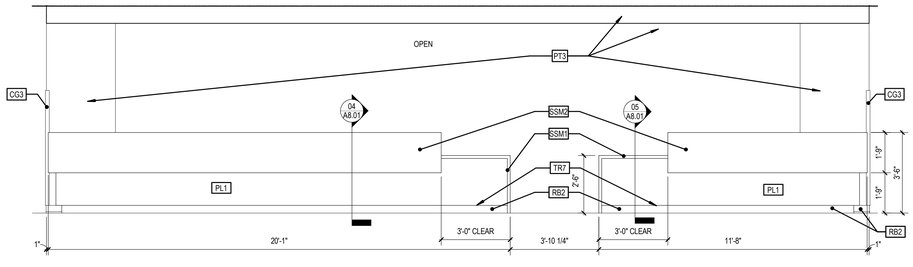
11 A6.04 1095 NURSE STATION
3/8" = 1'-0"



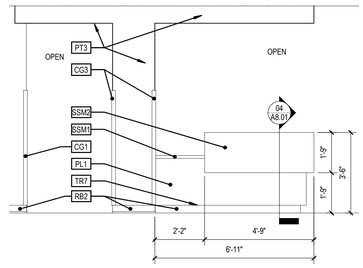
10 A6.04 1095 NURSE STATION
3/8" = 1'-0"



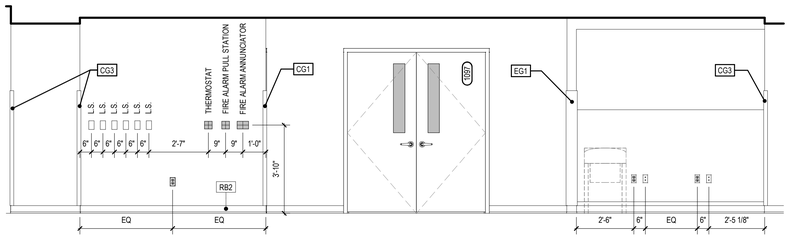
09 A6.04 1095 NURSE STATION
3/8" = 1'-0"



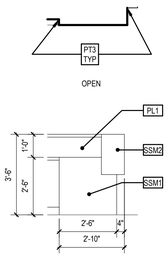
08 A6.04 1095 NURSE STATION
3/8" = 1'-0"



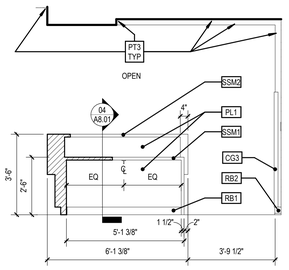
07 A6.04 1095 NURSE STATION
3/8" = 1'-0"



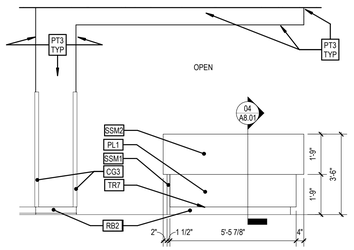
06 A6.04 1124 NURSE STATION, 1125 ALCOVE
3/8" = 1'-0"



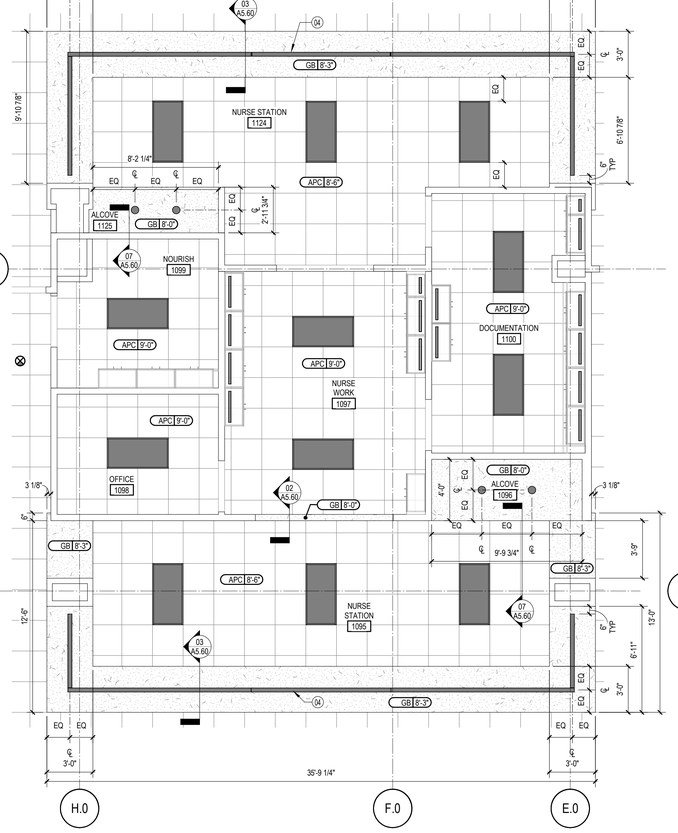
05 A6.04 1124 NURSE STATION
3/8" = 1'-0"



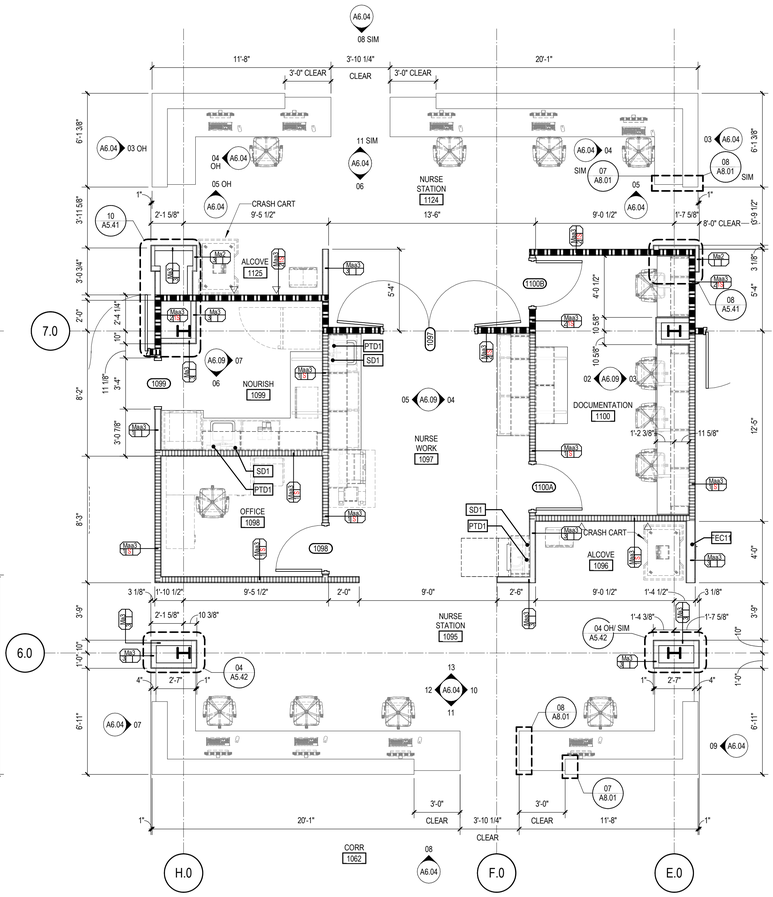
04 A6.04 1124 NURSE STATION
3/8" = 1'-0"



03 A6.04 1124 NURSE STATION
3/8" = 1'-0"



02 A6.04 ENLARGED RCP-NURSE STATION
1/4" = 1'-0"



01 A6.04 ENLARGED PLAN-NURSE STATION
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

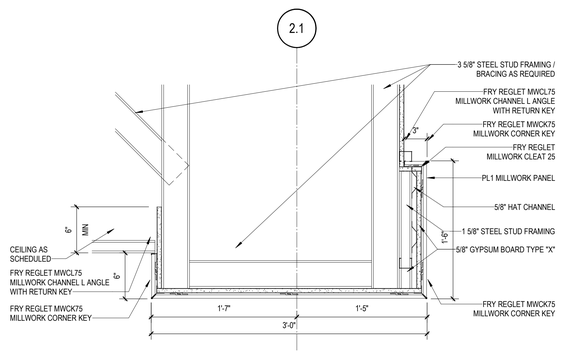
SHEET TITLE AND NUMBER:

A6.04

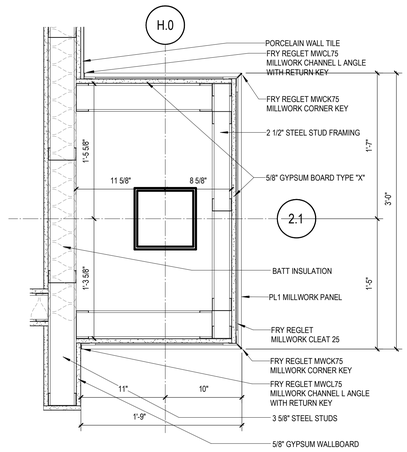
ENLARGED PLANS & INTERIOR ELEVATIONS - NURSE STATION

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" X 42" ORIGINAL ARCH SHEETS

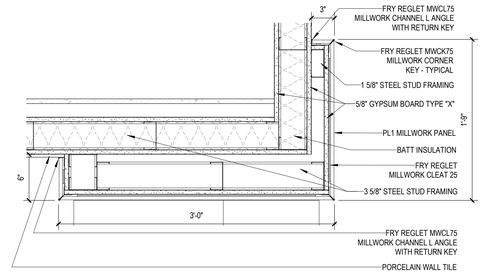
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ONE INCH LONG AT 24" SHEETS



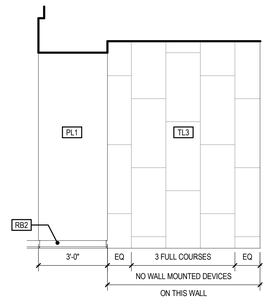
12 A6.05 SECTION - PL1 SOFFIT
1 1/2" = 1'-0"



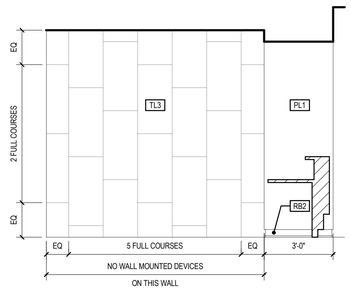
11 A6.05 PLAN DETAIL - PL1 PILASTER
1 1/2" = 1'-0"



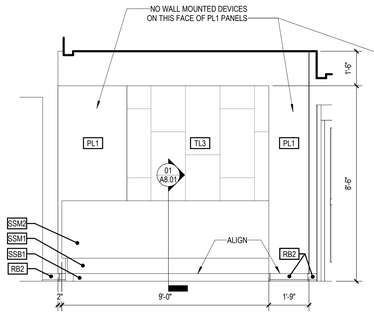
10 A6.05 PLAN DETAIL - PL1 PILASTER
1 1/2" = 1'-0"



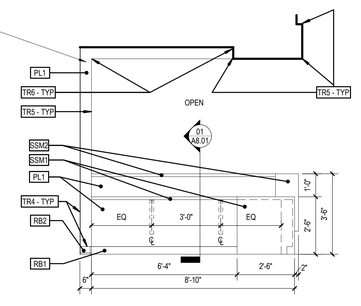
09 A6.05 1016 RECEPTION
3/8" = 1'-0"



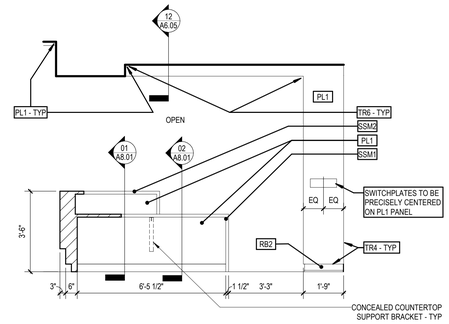
08 A6.05 1016 RECEPTION
3/8" = 1'-0"



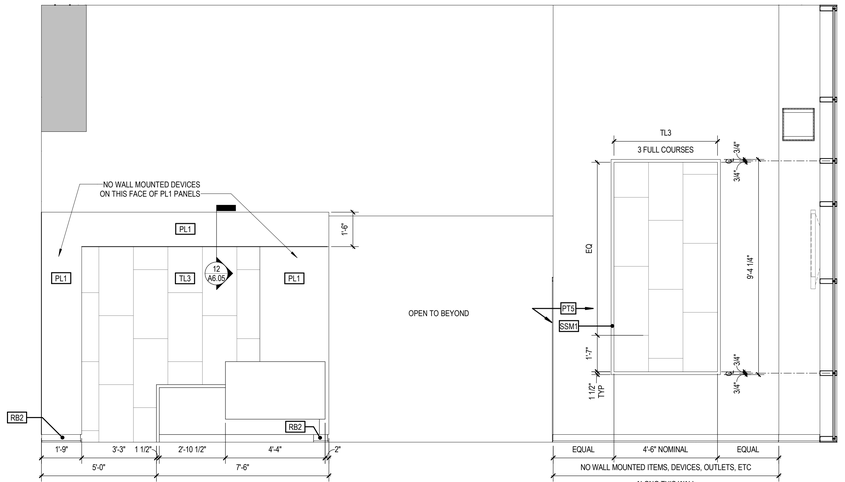
07 A6.05 1016 RECEPTION
3/8" = 1'-0"



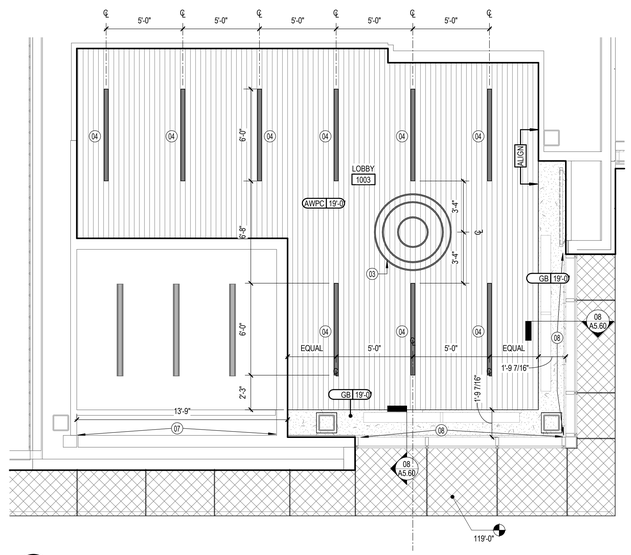
06 A6.05 1016 RECEPTION
3/8" = 1'-0"



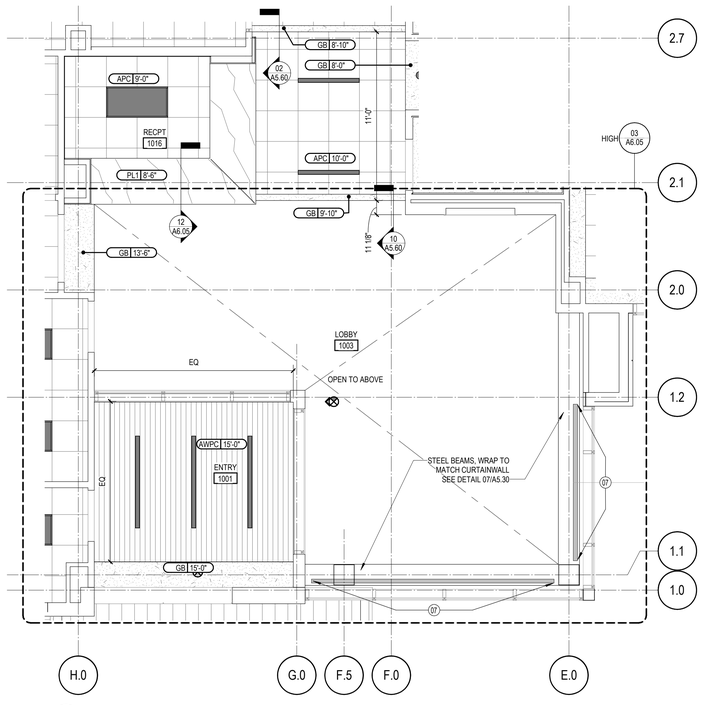
05 A6.05 1016 RECEPTION
3/8" = 1'-0"



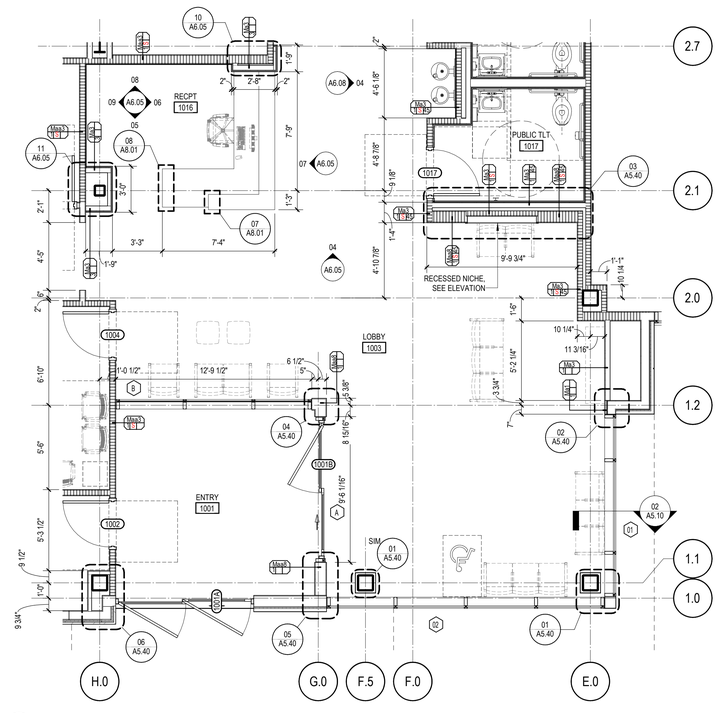
04 A6.05 1003 LOBBY/ 1016 RECEPTION
3/8" = 1'-0"



03 A6.05 ENLARGED RCP- LOBBY 1011
1/4" = 1'-0"



02 A6.05 ENLARGED RCP- ENTRY 1001, RECEPTION 1016
1/4" = 1'-0"



01 A6.05 ENLARGED PLAN- ENTRY 1001 , LOBBY 1003, RECEPTION 1016
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.226.1917 | 888.781.8441 | e4harchitecture.com

exalt health

RYAN

EXALT HEALTH - 40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

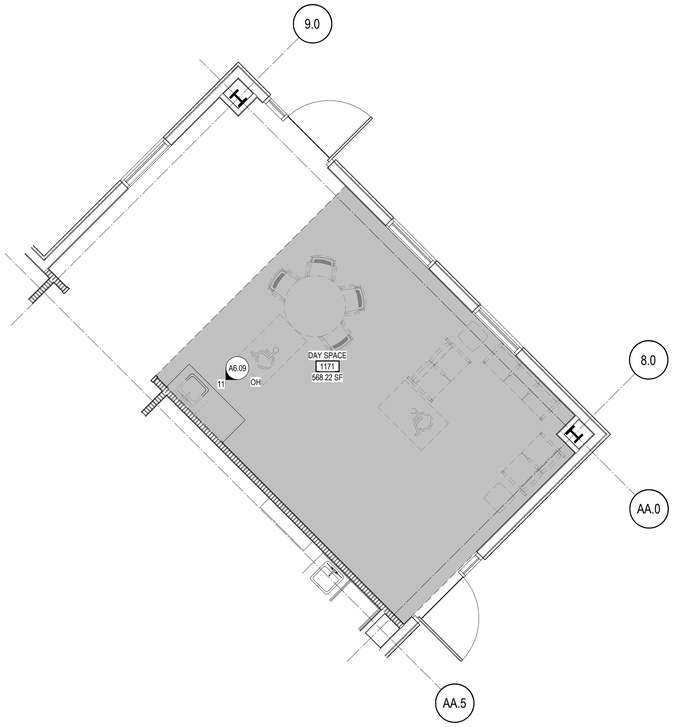
SHEET TITLE AND NUMBER:

A6.05

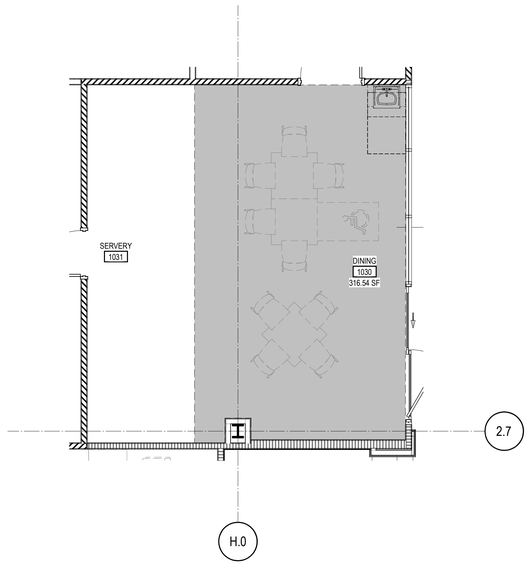
ENLARGED PLANS, INT ELEV'S & DETAILS - LOBBY

© 2026 E4H+ Environments For Health, LLC

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH D SHEETS



04 A6.06 ENLARGED PLAN - DAY SPACE 1171
1/4" = 1'-0"



01 A6.06 ENLARGED PLAN - DINING 1035
1/4" = 1'-0"

DAY SPACE REQUIREMENTS

DAY SPACE REQUIRED PER THE 2022 FGI - 2.6 - 2.3.1.2.

OUTPATIENT SERVICES: 55 S.F. PER PATIENT

CALCULATIONS:

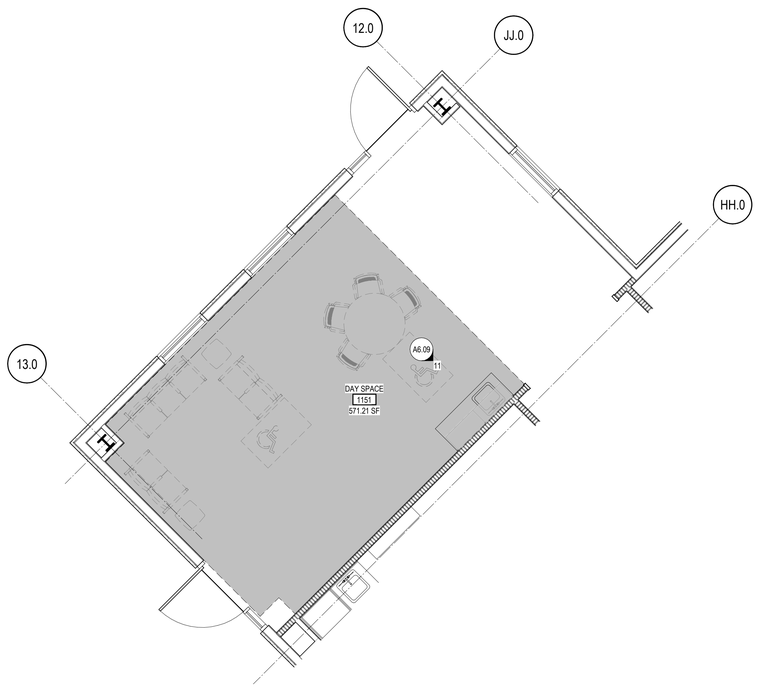
REQUIRED: 55 S.F. x 40 PATIENT ROOMS = 2,200 MINIMUM S.F.

PROVIDED: 2,551 TOTAL S.F.

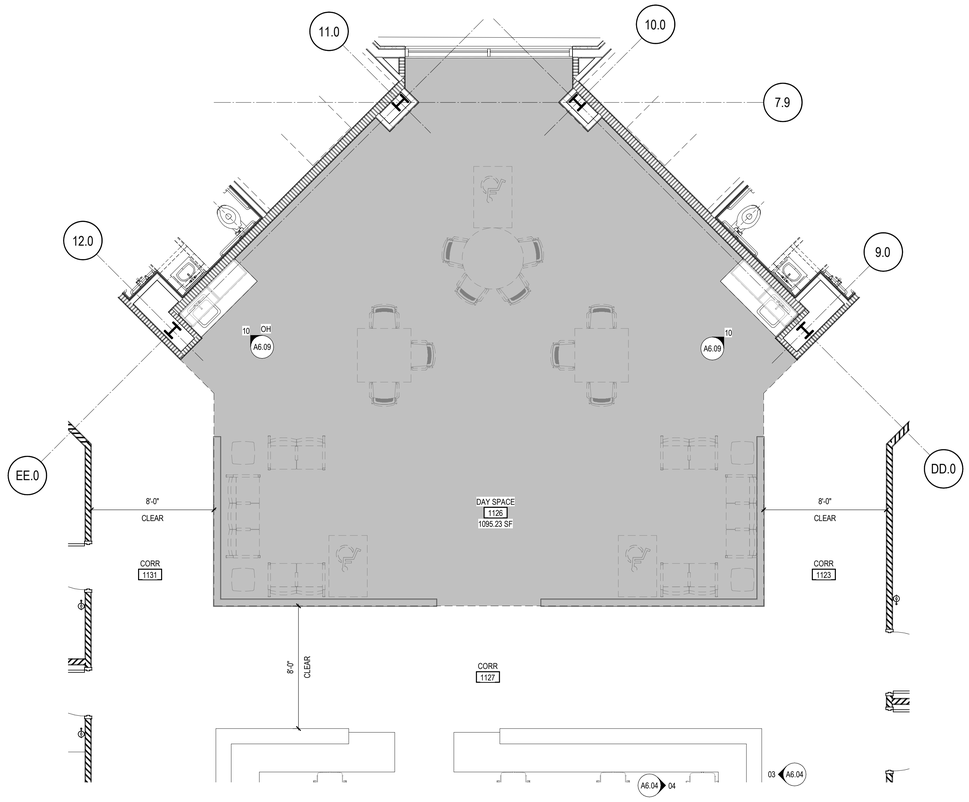
NOTE: FURNITURE LAYOUT NOT FINAL, OWNER TO PROVIDE FINAL VENDOR DRAWINGS.

FGI REQUIRED INPATIENT DAY SPACE

ROOM #	ROOM NAME	ROOM AREA
1030	DINING	317 SF
1126	DAY SPACE	1095 SF
1151	DAY SPACE	571 SF
1171	DAY SPACE	568 SF
PROVIDED SF:		2551 SF



03 A6.06 ENLARGED PLAN - DAY SPACE 1169
1/4" = 1'-0"



02 A6.06 ENLARGED PLAN - DAY SPACE 1125
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com
888.781.8441
© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

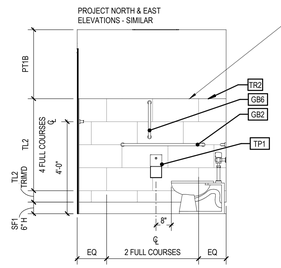
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

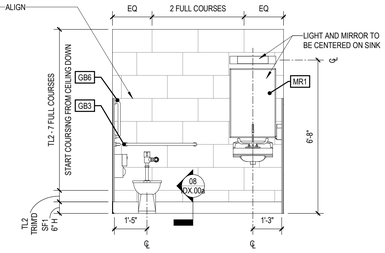
A6.06

ENLARGED PLANS - DAY SPACES

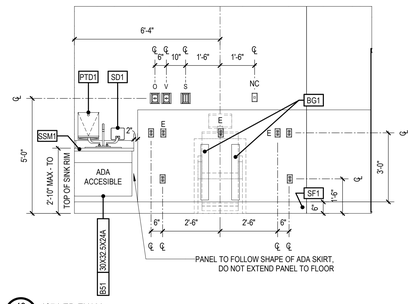
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS



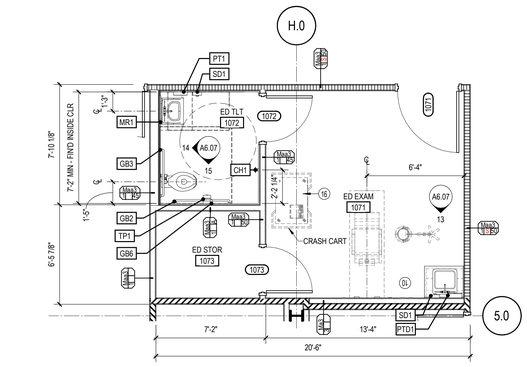
15 A6.07 1072 ED TOILET
3/8" = 1'-0"



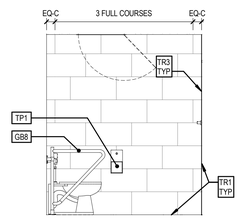
14 A6.07 1072 ED TOILET
3/8" = 1'-0"



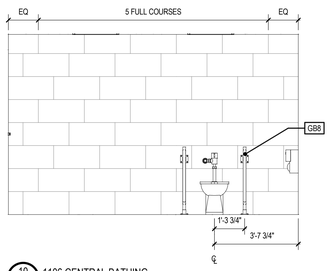
13 A6.07 1071 ED EXAM
3/8" = 1'-0"



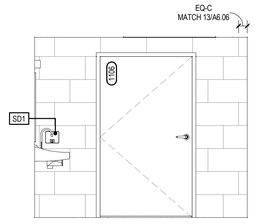
12 A6.07 ENLARGED PLAN - 1071 ED EXAM, 1072 ED TOILET & 1073 ED STORAGE
1/4" = 1'-0"



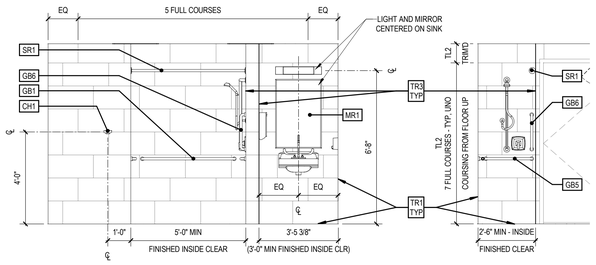
11 A6.07 1106 CENTRAL BATHING
3/8" = 1'-0"



10 A6.07 1106 CENTRAL BATHING
3/8" = 1'-0"

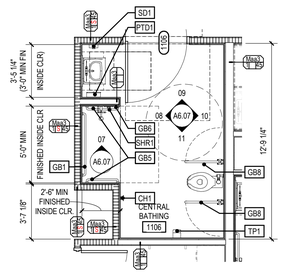


09 A6.07 1106 CENTRAL BATHING
3/8" = 1'-0"

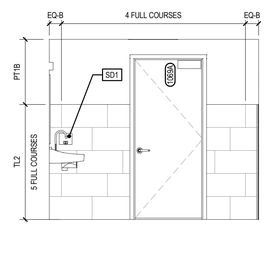


08 A6.07 1106 CENTRAL BATHING
3/8" = 1'-0"

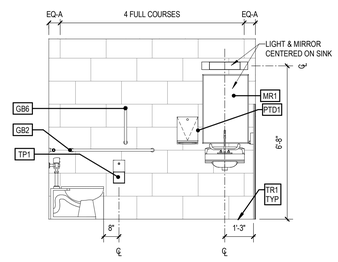
07 A6.07 1106 CENTRAL BATHING
3/8" = 1'-0"



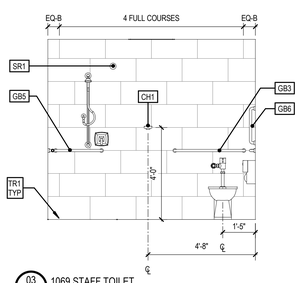
06 A6.07 ENLARGED PLAN 1106 CENTRAL BATHING
1/4" = 1'-0"



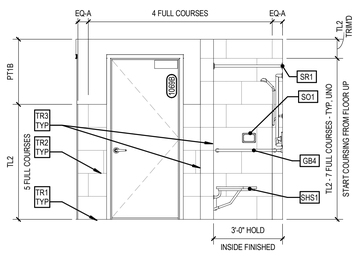
05 A6.07 1069 STAFF TOILET
3/8" = 1'-0"



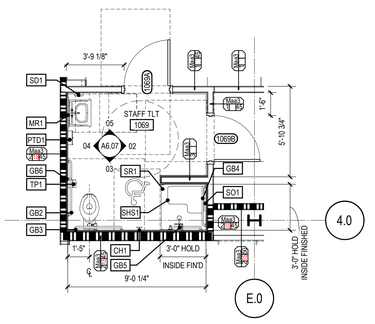
04 A6.07 1069 STAFF TOILET
3/8" = 1'-0"



03 A6.07 1069 STAFF TOILET
3/8" = 1'-0"



02 A6.07 1069 STAFF TOILET
3/8" = 1'-0"



01 A6.07 ENLARGED PLAN - 1058 STAFF TLT
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

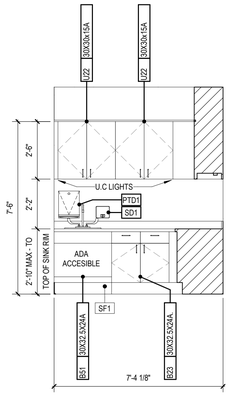
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

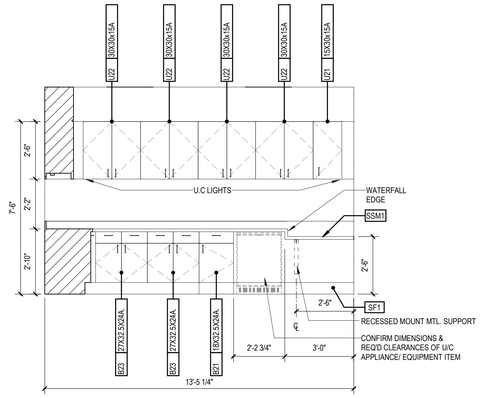
A6.07

MISCELLANEOUS ENLARGED PLANS AND ELEVATIONS

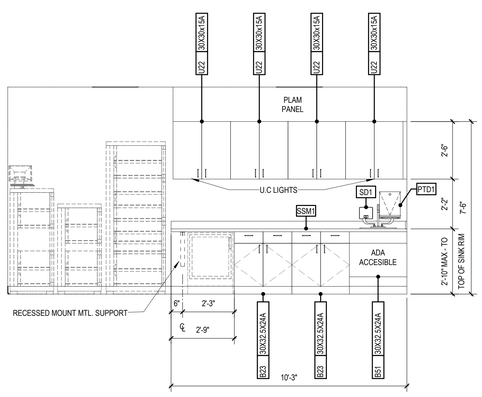
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCHITECTURAL SHEETS



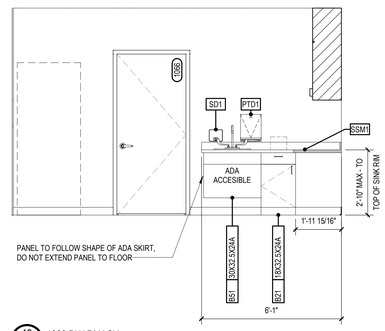
15 A6.08 1075 LAB
3/8" = 1'-0"



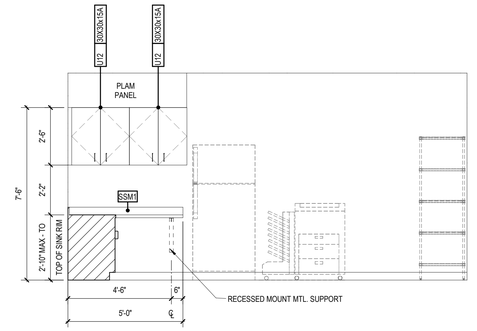
14 A6.08 1075 LAB
3/8" = 1'-0"



13 A6.08 1063 MEDS
3/8" = 1'-0"

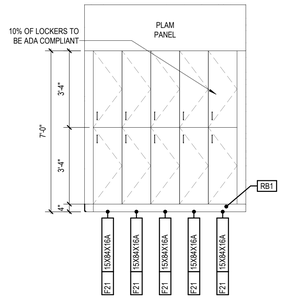


12 A6.08 1066 PHARMACY
3/8" = 1'-0"

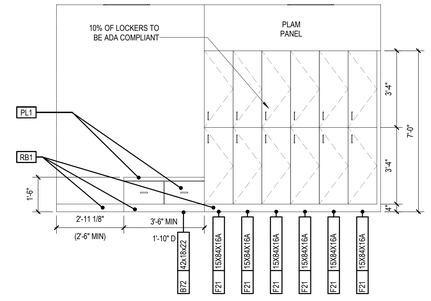


11 A6.08 1066 PHARMACY
3/8" = 1'-0"

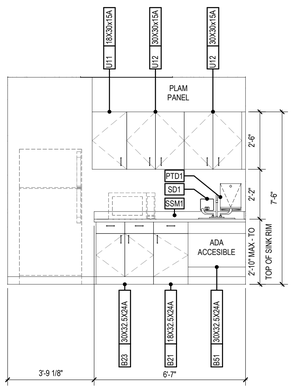
09 A6.08 1068 LOCKERS
3/8" = 1'-0"



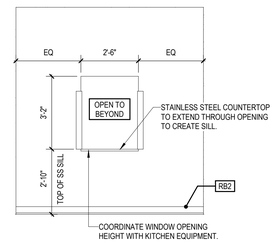
08 A6.08 1068 LOCKERS
3/8" = 1'-0"



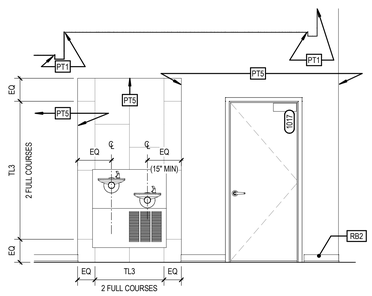
07 A6.08 1070 LOCKERS
3/8" = 1'-0"



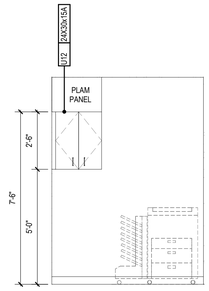
06 A6.08 1067 STAFF LOUNGE
3/8" = 1'-0"



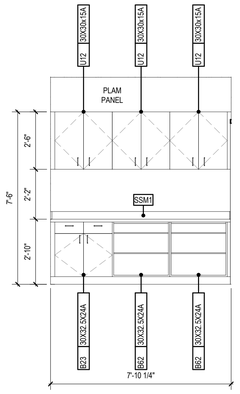
05 A6.08 1040 DISH RECEIVE
3/8" = 1'-0"



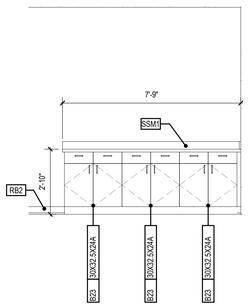
04 A6.08 1003 CORR - DRINKING FOUNTAIN
3/8" = 1'-0"



03 A6.08 1011 COPY
3/8" = 1'-0"



02 A6.08 1011 COPY
3/8" = 1'-0"



01 A6.08 1006 CONFERENCE
3/8" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H092125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

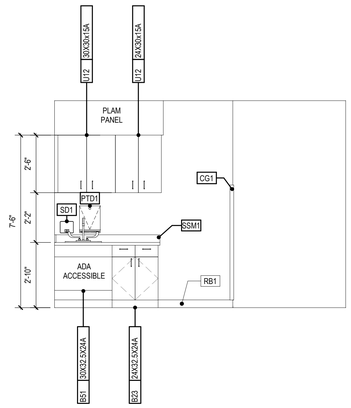
CURRENT:

SHEET TITLE AND NUMBER:

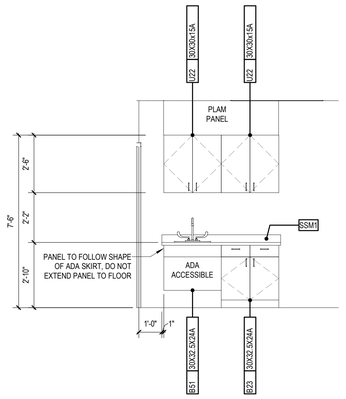
A6.08

INTERIOR ELEVATIONS

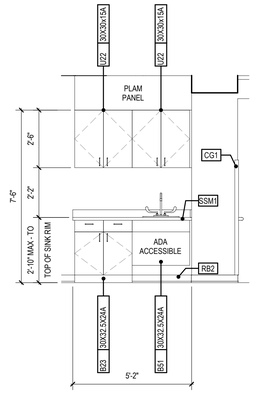
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH D SHEET



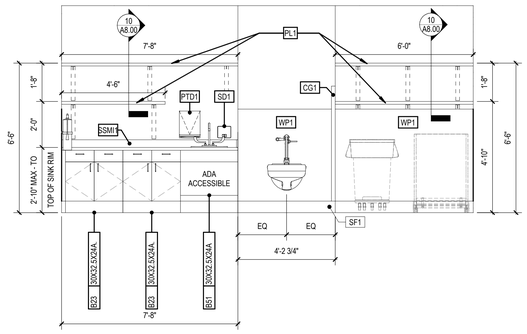
12 A6.09 1074 NURSE LOUNGE
3/8" = 1'-0"



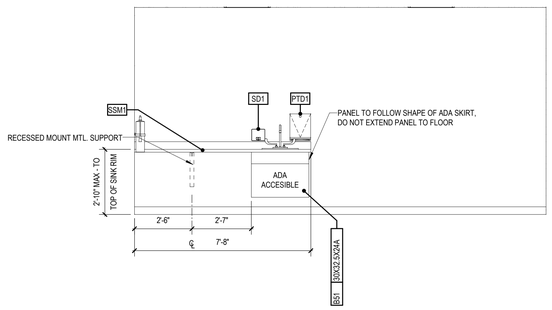
11 A6.09 1151 DAY SPACE
3/8" = 1'-0"



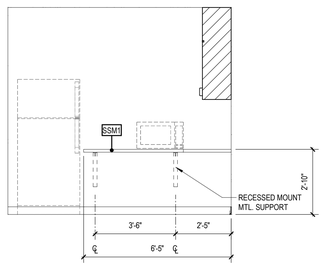
10 A6.09 1126 DAY SPACE
3/8" = 1'-0"



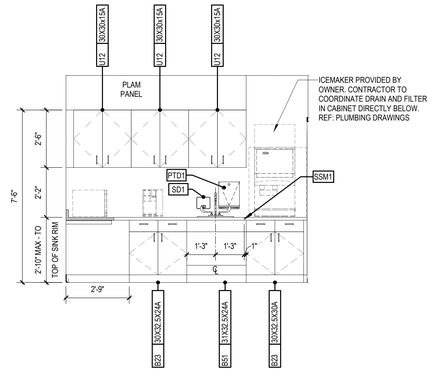
09 A6.09 1128 SOILED WORKROOM
3/8" = 1'-0"



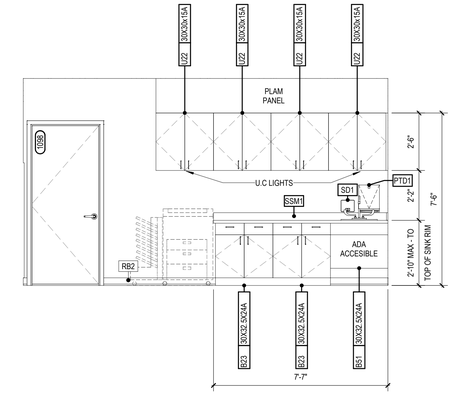
08 A6.09 1129 CLEAN WORKROOM
3/8" = 1'-0"



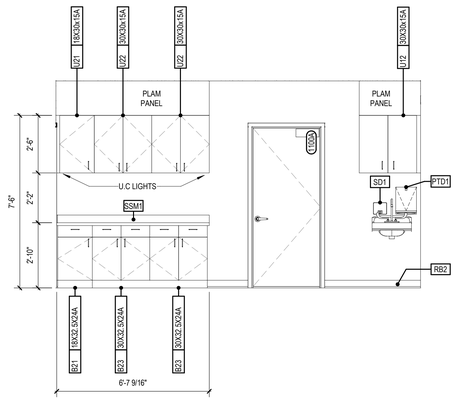
07 A6.09 1099 NOURISH
3/8" = 1'-0"



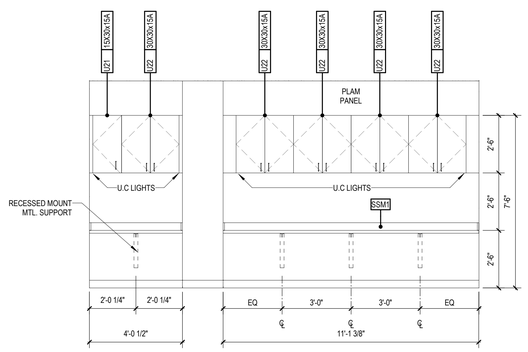
06 A6.09 1099 NOURISH
3/8" = 1'-0"



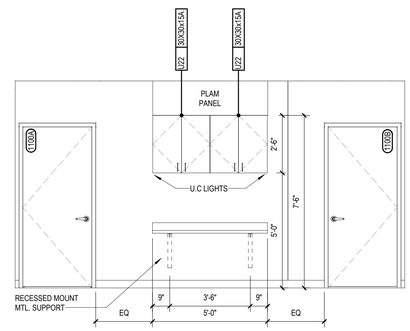
05 A6.09 1097 NURSE WORK
3/8" = 1'-0"



04 A6.09 1097 NURSE WORK
3/8" = 1'-0"



03 A6.09 1100 DOCUMENTATION
3/8" = 1'-0"



02 A6.09 1100 DOCUMENTATION
3/8" = 1'-0"

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
883.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H092125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

A6.09

INTERIOR ELEVATIONS

ARCH- DOOR SCHEDULE- AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL ARCH SIZE

NUMBER	FROM ROOM: NAME	TO ROOM: NAME	FIRE RATING (MIN)	DOOR PANELS: PANEL TYPE 1	PANEL TYPE 2	PANEL DIMENSIONS: WIDTH	HEIGHT	TOTAL OF PANELS: WIDTH	HEIGHT	THICKNESS	UNDERCUT	FINISH 1	FINISH 2	DOOR FRAME: TYPE	FACE DIMENSIONS: JAMB WIDTH	HEAD HEIGHT	DEPTH	FINISH 1	HEAD	JAMB	SILL	NUMBER	HW SET	COMMENTS	CURRENT REV
LEVEL 1																									
1002	ENTRY	WHEEL CHAIR	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1002	C201	1.	
1004	LOBBY	CHAPEL	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1004	801		
1005	ADMIN	LOBBY	S	PNL.N.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- C	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1005	C201	1.	
1006A	CHAPEL	CONFERENCE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1006A	C201	1.	
1006B	ADMIN	CONFERENCE		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1006B	501		
1007	ADMIN	CCO		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1007	103		
1008	ADMIN	MEDICAL DIRECTOR		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1008	103		
1009	ADMIN	CEO		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1009	103		
1010	ADMIN	STORAGE		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1010	201		
1011	COPY	ADMIN		PNL.NP		3'-0"		3'-0"	7'-0"	0"	0"	---	---	FRM.001.HM2	2"	2"	5 3/4"	PT2B	03/A7.01	04/A7.01	---	1011	-		
1012	ADMIN	QUALITY		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1012	103		
1013	ADMIN	DMO		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1013	103		
1014	ADMIN	STAFF TLT		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1014	341		
1015	LOBBY	ADMISSIONS	S	PNL.G.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- C	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1015	103		
1017	LOBBY	PUBLIC TLT	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1017	341		
1018	CORR	PUBLIC TLT	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1018	341		
1020A	GYM		NR	PNL.FG.AL		3'-0"		7'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1020A	B-DX715A	1. 10.	
1021	GYM	SOILED HOLD	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1021	C201	1.	
1022	GYM	ADL		PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1022	C201W	1.	
1023	GYM	THERAPY WORK		PNL.NP		3'-0"		3'-0"	7'-0"	0"	0"	---	---	FRM.001.HM2	2"	2"	5 3/4"	PT2B	03/A7.01	04/A7.01	---	1023	-		
1024	GYM	PT STOR	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1024	C201	1.	
1025	GYM	SPEECH THERAPY		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1025	501		
1026	PAT TLT	GYM		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1026	341		
1031	SERVERY	KITCHEN	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1031	507		
1032	CORR	KITCHEN	45	PNL.F.WD		3'-6"		3'-6"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1032	507W		
1033	CORR	DIETARY BREAKDOWN	45	PNL.F.HM		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1033	507W		
1034	DIETARY BREAKDOWN	OFFICE		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1034	103		
1035	DIETARY BREAKDOWN	STAFF TLT		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1035	347		
1036	KITCHEN	DRY STORAGE	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1036	507		
1037	KITCHEN	JAN		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1037	501		
1038	POT/PAN WASH/CLEAN	KITCHEN		PNL.NP		3'-8"		3'-8"	7'-0"	0"	0"	---	---	FRM.001.HM2	2"	2"	5 3/4"	PT2B	03/A7.01	04/A7.01	---	1038	-		
1039	CORR	SOILED	45	PNL.F.WD		3'-6"		7'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1039	207W		
1040	DINING	DISH RECEIVE	45	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1040	401W		
1041	CORR	CORR	S	PNL.N.WD	PNL.N.WD	2'-8"	2'-8"	5'-4"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- C	FRM.002.HM4	2"	2"	5 3/4"	PT2B	05/A7.01	06/A7.01	07/A7.01	1041	CMX820DPR	1. 3. 7. 10.	
1042	CORR	MAINTENANCE	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1042	C201	1.	
1043	CORR	CLEAN LINEN	45	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1043	507W		
1044	CORR	SOILED HOLD	45	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1044	C201W	1.	
1045	CORR	EVS	45	PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1045	501		
1046	CORR		NR	PNL.F.HM	PNL.F.HM	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1046	E-D204		
1047	CORR		NR	PNL.F.HM		3'-0"		7'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1047	E-C715	1.	
1048	CORR	CENTRAL STORAGE	45	PNL.F.HM	PNL.F.HM	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1048	C206	1.	
1049	CORR	TRASH	45	PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1049	501		
1050	CORR	HAZ WASTE	45	PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1050	501		
1051A	EMER ELECT			PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1051A	E-D715		
1051B	ELECT	EMER ELECT	45	PNL.F.HM		3'-0"		7'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1051B	701R		
1052	ELECT			PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1052	E-D715		
1053	FAP ROOM	CORR	45	PNL.F.HM	PNL.F.HM	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1053	206		
1054A	MECH			PNL.F.HM	PNL.F.HM	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1054A	E-D204		
1054B	CORR	MECH	45	PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT2B	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1054B	501		
1055	RISER			PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1055	E-205		
1056	PUMP			PNL.F.HM	PNL.F.HM	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1056	E-204		
1057A	02 STORAGE			PNL.L.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	4"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1057A	E-205		
1057B	02 STORAGE			PNL.L.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	---	FRM.001.HM1	2"	4"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1057B	E-205		
1060	CORR	CORR	20	PNL.N.WD	PNL.N.WD	3'-8"	3'-8"	7'-4"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- D	FRM.002.HM4	2"	2"	5 3/4"	PT2B	05/A7.01	06/A7.01	07/A7.01	1060	728DRW	3.	
1061	CORR	TSER	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1061	C201	1.	
1063	CORR	MEDS	S	PNL.N.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- C	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1063	C201	1.	
1065	CORR	CASE MANAGER	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1065	101		
1066	CORR	PHARMACY	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1066	C207-PEEPHOLE	1. 11.	
1067	CORR	STAFF LOUNGE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1067	401		
1068	STAFF LOUNGE	LOCKERS		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1068	401		
1069A	STAFF TLT	LOCKERS		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1069A	347		
1069B	STAFF TLT	LOCKERS		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1069B	347		
1070	STAFF LOUNGE	LOCKERS		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1070	401		
1071	CORR	ED EXAM	S	PNL.N.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- C	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1071	403W		
1072	ED TLT	ED EXAM		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1072	403		
1073	ED STOR	ED EXAM		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1073	201		
1074	CORR	NURSE LOUNGE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1074	401		
1075	CORR	LAB	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1075	K201	5.	
1081	CORR	Ai PAT ROOM 1	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1081	401GW		
1081A	Ai PAT TLT	Ai PAT ROOM 1		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1081A	403S		
1081B	Ai PAT ROOM 1	ANTE		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1081B	401G		
1081C	CORR	ANTE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1081C	407G		
1082	CORR	PAT ROOM 2	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1082	403W		
1082A	PAT TLT	PAT ROOM 2		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1082A	403S		
1083	CORR	PAT ROOM 3	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1083	403W		
1083A	PAT TLT	PAT ROOM 3		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1083A	403S		
1084	CORR	PAT ROOM 4	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1084	403W		
1084A	PAT TLT	PAT ROOM 4		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1084A	403S		
1085	CORR	PAT ROOM 5	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1085	403W		
1085A	PAT TLT	PAT ROOM 5		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1085A	403S		
1106	CORR	CENTRAL BATHING	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM2	2"	2"	5 3/4"	PT2B	03/A7.01	04/A7.01	07/A7.01	1106	343D	8.	
1111	CORR	Ai PAT ROOM 11	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1111	401GW		
1111A	Ai PAT TLT	Ai PAT ROOM 11		PNL.F.WD		3'-0"		7'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1111A	403S		
1111B	Ai PAT ROOM 11	ANTE		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1111B	401G		
1111C	CORR	ANTE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1111C	407G		
1112	CORR	PAT ROOM 12	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1112	403W		
1112A	PAT TLT	PAT ROOM 12		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1112A	403S		
1113	CORR	PAT ROOM 13	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1113	403W		
1113A	PAT TLT	PAT ROOM 13		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1113A	403S		
1114	CORR	PAT ROOM 14	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1114	403W		
1114A	PAT TLT	PAT ROOM 14		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1114A	403S		
1115	CORR	PAT ROOM 15	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1115	403W		
1115A	PAT TLT	PAT ROOM 15		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	---	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1115A	403S		

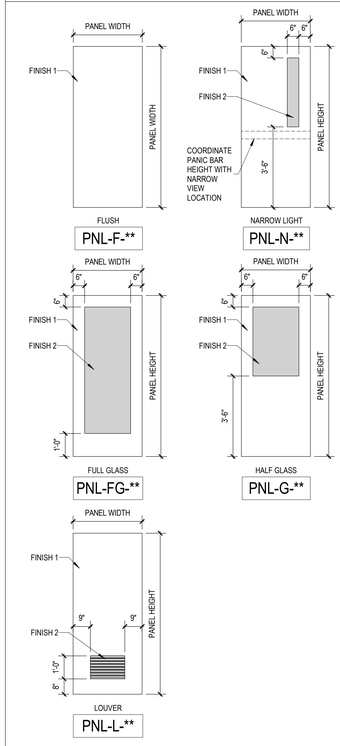
DOOR/HARDWARE LEGEND

REMARKS:
1. CARD READER
2. CLOSER
3. MAGNETIC HOLD OPEN (MHO)
4. AUTOMATIC OPERATOR (AUTO)
5. KEYPAD
6. KICK PLATE
7. ARMOR PLATE
8. DOUBLE ACTING HINGE
9. SWING CLEAR HINGE
10. DELAYED EGRESS
11. PEEPHOLE

LEGEND:

ALM	ALUMINUM
F	FLUSH
HM	HOLLOW METAL
N	NARROW VIEW
WD	WOOD W/ PLAM
KP	KEY PAD

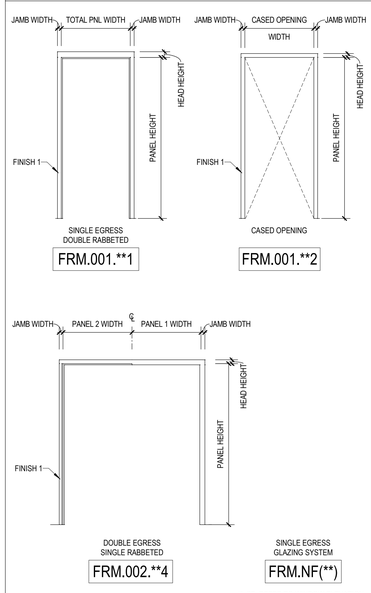
DOOR TYPES



REFER TO LIFE SAFETY DRAWINGS TO VERIFY COMPLIANCE WITH ALL FIRE RATING AND SMOKE TIGHT REQUIREMENTS

** DENOTES MATERIAL TYPE

FRAME TYPES



**=SF, REFER TO WINDOW ELEVATION FOR STOREFRONT FRAME DETAILS.
**=CW, REFER TO WINDOW ELEVATION FOR CURTAINWALL FRAME DETAILS.

REFER TO LIFE SAFETY DRAWINGS TO VERIFY COMPLIANCE WITH ALL FIRE RATING AND SMOKE TIGHT REQUIREMENTS

** DENOTES MATERIAL TYPE

GLAZING LEGEND

- A — 1 5/16" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR CURTAINWALL)
- B — 1 5/16" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR CURTAINWALL)
- C — 1/4" TEMPERED, SAFETY-RATED GLAZING - CLEAR (INTERIOR WINDOW/DOOR SYSTEMS)
- D — 1/4" FIRE-RATED, SAFETY-RATED GLAZING - CLEAR (INTERIOR FIRE-RATED DOORS)
- E — 9/16" LAMINATED DOOR INFILLING GLAZING - VISION - BLUE* (EXTERIOR VESTIBULE SLIDING DOOR)
- F — 1" INSULATED GLAZING UNIT - VISION - CLEAR* (INTERIOR CURTAINWALL SYSTEMS - VESTIBULE)
- G — 1-1/4" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR STORE

ARCH- DOOR SCHEDULE- AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ON ORIGINAL ARCH D SIZE

NUMBER	FROM ROOM: NAME	TO ROOM: NAME	FIRE RATING (MIN)	DOOR PANELS										DOOR FRAME										
				PANEL TYPE		PANEL DIMENSIONS WIDTH		TOTAL OF PANELS							FACE DIMENSIONS									
				PANEL 1	PANEL 2	PANEL 1	PANEL 2	WIDTH	HEIGHT	THICKNESS	UNDERCUT	FINISH 1	FINISH 2	TYPE	JAMB WIDTH	HEAD HEIGHT	DEPTH	FINISH 1	HEAD	JAMB	SILL	NUMBER	HW SET	COMMENTS	CURRENT REV
LEVEL 1																									
1060	CORR		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1060	B-DX715A	1. 10.	
1086	CORR	PAT ROOM 6	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1086	403W		
1086A	PAT TLT	PAT ROOM 6		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1086A	403S		
1087	CORR	PAT ROOM 7	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1087	403W		
1087A	PAT. TLT	PAT ROOM 7		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1087A	403S		
1088	CORR	PAT ROOM 8	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1088	403W		
1088A	PAT TLT	PAT ROOM 8		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1088A	403S		
1089	CORR	PAT ROOM 9	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1089	403W		
1089A	PAT TLT	PAT ROOM 9		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1089A	403S		
1090	CORR	PAT ROOM 10	S	PNL.F.WD	PNL.F.WD	4'-0"	2'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1090	432S		
1090A	PAT TLT	PAT ROOM 10		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1090A	403S		
1090B	PAT ROOM 9	PAT ROOM 10		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	8 1/8"	PT2B	01/A7.01	02/A7.01	07/A7.01	1090B	C241	1.	
1091	CORR	CORR	20	PNL.N.WD	PNL.N.WD	3'-8"	3'-8"	7'-4"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- D	FRM.002.HM4	2"	2"	5 3/4"	PT2B	05/A7.01	06/A7.01	07/A7.01	1091	728DRW	3.	
1092	PAT TLT	CORR	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1092	341		
1093	CORR	STAFF TLT	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1093	341		
1094	CORR	TDR	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1094	C201	1.	
1097	NURSE WORK	NURSE STATION	20	PNL.N.WD	PNL.N.WD	3'-0"	3'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- D	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1097	718R	3.	
1098	NURSE WORK	OFFICE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1098	103		
1099	CORR	NOURISH		PNL.NP		3'-0"		3'-0"	7'-0"	0"	0"	---	---	FRM.001.HM2	2"	2"	5 3/4"	PT2B	03/A7.01	04/A7.01	---	1099	-		
1100A	NURSE WORK	DOCUMENTATION	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1100A	501		
1100B	NURSE STATION	DOCUMENTATION	20	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1100B	501		
1101	CORR	CORR	20	PNL.N.WD	PNL.N.WD	3'-8"	3'-8"	7'-4"	7'-0"	1 3/4"	3/4"	PL1	GLAZ TYPE- D	FRM.002.HM4	2"	2"	5 3/4"	PT2B	05/A7.01	06/A7.01	07/A7.01	1101	728DRW	3.	
1103	CORR	EVS	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1103	201		
1104	CORR	DIALYSIS STORAGE	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1104	C201	1.	
1105	CORR	MED RECORDS	S	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1105	C201	1.	
1110	CORR		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1110	B-DX715A	1. 10.	
1116	CORR	PAT ROOM 16	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1116	403W		
1116A	PAT TLT	PAT ROOM 16		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1116A	403S		
1117	CORR	PAT ROOM 17	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1117	403W		
1117A	PAT TLT	PAT ROOM 17		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1117A	403S		
1118	CORR	PAT ROOM 18	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1118	403W		
1118A	PAT TLT	PAT ROOM 18		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1118A	403S		
1119	CORR	PAT ROOM 19	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1119	403W		
1119A	PAT TLT	PAT ROOM 19		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1119A	403S		
1119B	PAT ROOM 19	PAT ROOM 20		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	8 1/8"	PT2B	01/A7.01	02/A7.01	07/A7.01	1119B	C241	1.	
1120	CORR	PAT ROOM 20	S	PNL.F.WD	PNL.F.WD	4'-0"	2'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1120	432S		
1120A	PAT TLT	PAT ROOM 20		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1120A	403S		
1121	CORR	STORAGE	45	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1121	C201W	1.	
1122	CORR	EQUIP STORAGE	45	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1122	C201W	1.	
1128A	CORR	SOILED WORKROOM	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1128A	C201	1.	
1128B	SOILED WORKROOM			PNL.F.HM		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PT10	--	FRM.001.HM1	2"	2"	5 3/4"	PT10	REF. EXT DTLS	REF. EXT DTLS	08/A7.01	1128B	E-C715	1.	
1129	CORR	CLEAN WORKROOM	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1129	C201	1.	
1130	CORR	ELEC	45	PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1130	201		
1141	CORR	PAT ROOM 21	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1141	403W		
1141A	PAT TLT	PAT ROOM 21		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1141A	403S		
1142	CORR	PAT ROOM 22	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1142	403W		
1142A	PAT TLT	PAT ROOM 22		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1142A	403S		
1143	CORR	PAT ROOM 23	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1143	403W		
1143A	PAT TLT	PAT ROOM 23		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1143A	403S		
1144	CORR	PAT ROOM 24	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1144	403W		
1144A	PAT TLT	PAT ROOM 24		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1144A	403S		
1145	CORR	PAT ROOM 25	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1145	403W		
1145A	PAT TLT	PAT ROOM 25		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1145A	403S		
1146	CORR	PAT ROOM 26	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1146	403W		
1146A	PAT TLT	PAT ROOM 26		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1146A	403S		
1147	CORR	PAT ROOM 27	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1147	403W		
1147A	PAT TLT	PAT ROOM 27		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1147A	403S		
1148	CORR	PAT ROOM 28	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1148	403W		
1148A	PAT TLT	PAT ROOM 28		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1148A	403S		
1149	CORR	PAT ROOM 29	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1149	403W		
1149A	PAT TLT	PAT ROOM 29		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1149A	403S		
1150	CORR	PAT ROOM 30	S	PNL.F.WD	PNL.F.WD	4'-0"	2'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1150	432S		
1150A	PAT TLT	PAT ROOM 30		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1150A	403S		
1150B	PAT ROOM 29	PAT ROOM 30		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	8 1/8"	PT2B	01/A7.01	02/A7.01	07/A7.01	1150B	C241	1.	
1151A	DAY SPACE		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1151A	B-DX715A	1. 10.	
1151B	DAY SPACE		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1151B	B-DX715A	1. 10.	
1161	CORR	PAT ROOM 31	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1161	403W		
1161A	PAT TLT	PAT ROOM 31		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1161A	403S		
1162	CORR	PAT ROOM 32	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1162	403W		
1162A	PAT TLT	PAT ROOM 32		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1162A	403S		
1163	CORR	PAT ROOM 33	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1163	403W		
1163A	PAT TLT	PAT ROOM 33		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1163A	403S		
1164	CORR	PAT ROOM 34	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1164	403W		
1164A	PAT TLT	PAT ROOM 34		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1164A	403S		
1165	CORR	PAT ROOM 35	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1165	403W		
1165A	PAT TLT	PAT ROOM 35		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1165A	403S		
1166	CORR	PAT ROOM 36	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1166	403W		
1166A	PAT TLT	PAT ROOM 36		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1166A	403S		
1167	CORR	PAT ROOM 37	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1167	403W		
1167A	PAT TLT	PAT ROOM 37		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1167A	403S		
1168	CORR	PAT ROOM 38	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1168	403W		
1168A	PAT TLT	PAT ROOM 38		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1168A	403S		
1169	CORR	PAT ROOM 39	S	PNL.F.WD		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1169	403W		
1169A	PAT TLT	PAT ROOM 39		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1169A	403S		
1170	CORR	PAT ROOM 40	S	PNL.F.WD	PNL.F.WD	4'-0"	2'-0"	6'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1170	432S		
1170A	PAT TLT	PAT ROOM 40		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	5 3/4"	PT2B	01/A7.01	02/A7.01	07/A7.01	1170A	403S		
1170B	PAT ROOM 39	PAT ROOM 40		PNL.F.WD		3'-0"		3'-0"	7'-0"	1 3/4"	3/4"	PL1	--	FRM.001.HM1	2"	2"	8 1/8"	PT2B	01/A7.01	02/A7.01	07/A7.01	1170B	C241	1.	
1171A	DAY SPACE		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1171A	B-DX715A	1. 10.	
1171B	DAY SPACE		NR	PNL.FG.AL		4'-0"		4'-0"	7'-0"	1 3/4"	3/4"	AL	GLAZ TYPE- G	FRM.NF(SF)	0"	0"	4 3/4"	AL	REF. EXT DTLS	REF. EXT DTLS	REF. EXT DTLS	1171B	B-DX715A	1. 10.	

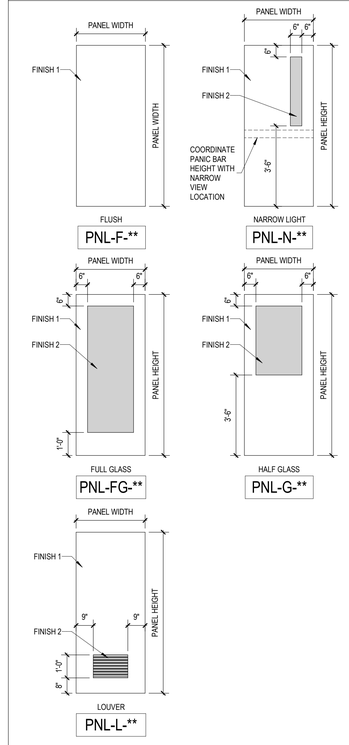
DOOR/HARDWARE LEGEND

REMARKS:
1. CARD READER
2. CLOSER
3. MAGNETIC HOLD OPEN (MHO)
4. AUTOMATIC OPERATOR (AUTO)
5. KEYPAD
6. KICK PLATE
7. ARMOR PLATE
8. DOUBLE ACTING HINGE
9. SWING CLEAR HINGE
10. DELAYED EGRESS
11. PEEPHOLE

LEGEND:

ALM	ALUMINUM
F	FLUSH
HM	HOLLOW METAL
N	NARROW VIEW
WD	WOOD W/ PLAM
KP	KEY PAD

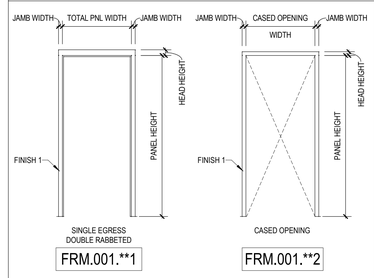
DOOR TYPES



REFER TO LIFE SAFETY DRAWINGS TO VERIFY COMPLIANCE WITH ALL FIRE RATING AND SMOKE TIGHT REQUIREMENTS

** DENOTES MATERIAL TYPE

FRAME TYPES



**=SF, REFER TO WINDOW ELEVATION FOR STOREFRONT FRAME DETAILS.
**=CW, REFER TO WINDOW ELEVATION FOR CURTAINWALL FRAME DETAILS.

REFER TO LIFE SAFETY DRAWINGS TO VERIFY COMPLIANCE WITH ALL FIRE RATING AND SMOKE TIGHT REQUIREMENTS

** DENOTES MATERIAL TYPE

GLAZING LEGEND

- A: 1 5/16" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR CURTAINWALL)
- B: 1 5/16" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR CURTAINWALL)
- C: 1/4" TEMPERED, SAFETY-RATED GLAZING - CLEAR (INTERIOR WINDOW/DOOR SYSTEMS)
- D: 1/4" FIRE-RATED, SAFETY-RATED GLAZING - CLEAR (INTERIOR FIRE-RATED DOORS)
- E: 9/16" LAMINATED DOOR INFILLING GLAZING - VISION - BLUE* (EXTERIOR VESTIBULE SLIDING DOOR)
- F: 1" INSULATED GLAZING UNIT - VISION - CLEAR* (INTERIOR CURTAINWALL SYSTEMS - VESTIBULE)
- G: 1-1/4" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR STOREFRONT & SWINGING DOORS)
- H: 1-1/4" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR STOREFRONT)

EXTERIOR GLAZING, BASIS OF DESIGN:
INSULATED GLAZING UNITS: SOLARBAN 70 ON SOLARBLUE(2) - AIR GAP - CLEAR + INTERLAYER + CLEAR

REFERENCE LISTED FLORIDA PRODUCT APPROVALS FOR GLAZING ASSEMBLY REQUIREMENTS - MUST MEET LEVEL 'E' IMPACT

GLAZING GENERAL NOTES

1. DO N

ARCH- DOOR SCHEDULE PACKAGE UNITS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" X 42" SHEETS

DOOR NUMBER	TO ROOM: NAME	HEIGHT	WIDTH	FRAME MATERIAL	DOOR TYPE	DOOR GLAZING	FRAME MATERIAL	HEAD	JAMB	DETAIL_SILL	DOOR #	HW SET	COMMENTS	CURRENT REV
LEVEL 1														
1001A		7'-8"	9'-0"	PER MANUF.	PACKAGE DOOR	GLAZ TYPE- E	PER MANUF.	11/A5.30	06/A5.40	03/A7.02	1001A	003	HD-STORM IMPACT UNIT - SERIES 2001 +/- 70 PSF TYPE: 310 MEDIUM STILE. PREP FOR 9/16" IMPACT GLAZING. ACTIVATE VIA MOTION SENSORS. INCLUDE AUTO LOCK (FAIL SECURE) WITH PANIC EXIT DEVICE, AND SINGLE KEY SWITCH. FINISH TO MATCH ADJACENT DARK BRONZE CURTAINWALL SYSTEM.	
1001B	ENTRY	7'-8"	9'-0"	PER MANUF.	PACKAGE DOOR	GLAZ TYPE- C	PER MANUF.	---	02/A7.02	03/A7.02	1001B	003	HD-SLIDE - SERIES 2001 TRACKLESS. TYPE: 310 MEDIUM STILE. PREP FOR 1/4" SAFETY GLAZING. ACTIVATE VIA MOTION SENSORS. INCLUDE FAIL-SAFE AND PANIC EXIT DEVICE. FINISH TO MATCH ADJACENT DARK BRONZE CURTAINWALL SYSTEM. PROVIDE SECONDARY FRAMING PER DETAILS.	
1020B	CORR	7'-8"	8'-0"	PER MANUF.	PACKAGE DOOR 3	GLAZ TYPE- C	PER MANUF.	07/A7.02	08/A7.02	09/A7.02	1020B	003	PROSLIDE TELESCOPING SERIES 2003T-IDS LE. TYPE: 310T TRACKLESS. PREP FOR 1/4" SAFETY GLAZING. ACTIVATE VIA TOUCHLESS "WAVE" PAD. FAIL-SAFE. FINISH TO BE DARK-BRONZE. APPLY WINDOW FILM (WF1) REF. INTERIOR FINISH MATERIALS LEGEND.	
1030	CORR	7'-8"	9'-0"	PER MANUF.	PACKAGE DOOR	GLAZ TYPE- C	PER MANUF.	---	02/A7.02	03/A7.02	1030	003	HD-SLIDE - SERIES 2001 TRACKLESS. TYPE: 310 MEDIUM STILE. PREP FOR 1/4" SAFETY GLAZING. ACTIVATE VIA TOUCHLESS "WAVE" PAD. FAIL-SAFE. FINISH TO BE DARK-BRONZE. APPLY WINDOW FILM (WF1) REF. INTERIOR FINISH MATERIALS LEGEND.	

GLAZING LEGEND

- A — 1 5/16" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR CURTAINWALL)
- B — 1 5/16" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR CURTAINWALL)
- C — 1/4" TEMPERED, SAFETY-RATED GLAZING - CLEAR (INTERIOR WINDOW/DOOR SYSTEMS)
- D — 1/4" FIRE-RATED, SAFETY-RATED GLAZING - CLEAR (INTERIOR FIRE-RATED DOORS)
- E — 9/16" LAMINATED DOOR INFILLING GLAZING - VISION - BLUE* (EXTERIOR VESTIBULE SLIDING DOOR)
- F — 1" INSULATED GLAZING UNIT - VISION - CLEAR* (INTERIOR CURTAINWALL SYSTEMS - VESTIBULE)
- G — 1-1/4" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR STOREFRONT & SWINGING DOORS)
- H — 1-1/4" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR STOREFRONT)

EXTERIOR GLAZING, BASIS OF DESIGN:
INSULATED GLAZING UNITS: SOLARBAN 70 ON SOLARBLUE(2) - AIR GAP - CLEAR + INTERLAYER + CLEAR

REFERENCE LISTED FLORIDA PRODUCT APPROVALS FOR GLAZING ASSEMBLY REQUIREMENTS - MUST MEET LEVEL 'E' IMPACT

GLAZING GENERAL NOTES

1. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
2. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENING. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS.
3. PROVIDE TEMPERED SAFETY GLAZING WHERE GLASS IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE.
4. PROVIDE TEMPERED SAFETY GLAZING WHERE THE EXPOSED GLASS PANE IS GREATER THAN 9 SF, AND EXPOSED BOTTOM EDGE IS LESS THAN 18" AFF, AND THE EXPOSED TOP EDGE IS GREATER THAN 36" AFF, AND THERE IS A WALKING SURFACE WITHIN 36" HORIZONTALLY OF THE PLANE OF GLAZING.
5. ALL EXTERIOR GLAZING AND WINDOW FRAMING SYSTEMS TO BE LARGE-MISSILE AND SMALL-MISSILE IMPACT RATED WITH CURRENT FLORIDA NOA.
6. ALL SPANDREL SHALL BE INSULATED BEHIND WITH RIGID INSULATION.

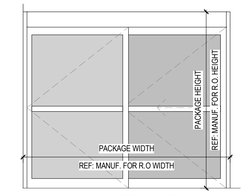
DOOR/HARDWARE LEGEND

REMARKS:
1. CARD READER
2. CLOSER
3. MAGNETIC HOLD OPEN (MHO)
4. AUTOMATIC OPERATOR (AUTO)
5. KEYPAD
6. KICK PLATE
7. ARMOR PLATE
8. DOUBLE ACTING HINGE
9. SWING CLEAR HINGE
10. DELAYED EGRESS
11. PEEPHOLE

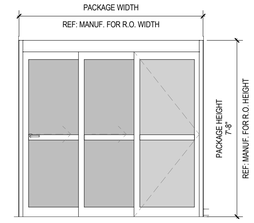
LEGEND:

ALM	ALUMINUM
F	FLUSH
HM	HOLLOW METAL
N	NARROW VIEW
WD	WOOD W/ PLAM
KP	KEY PAD

DOOR TYPES



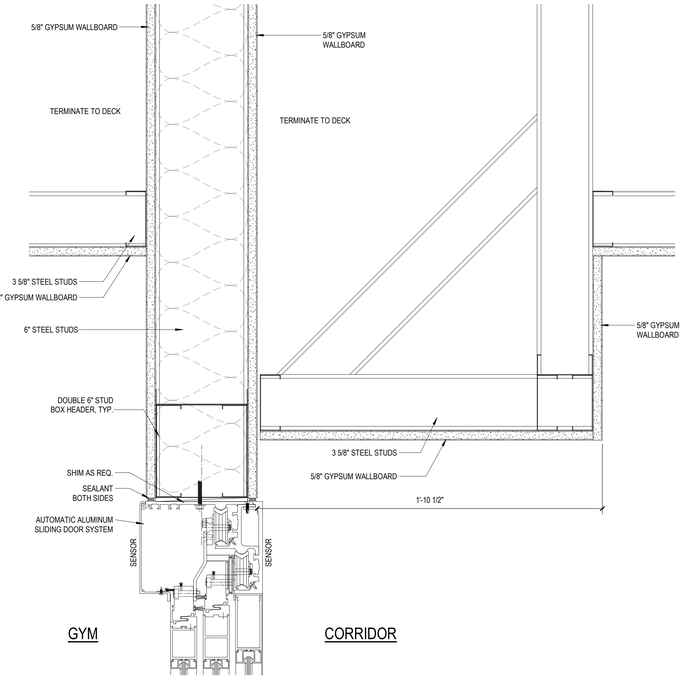
PACKAGE DOOR



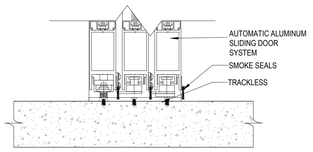
PACKAGE DOOR 3

REFER TO LIFE SAFETY DRAWIGNS TO VERIFY COMPLIANCE WITH ALL FIRE RATING AND SMOKE TIGHT REQUIREMENTS

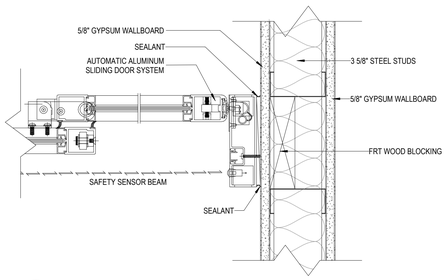
** DENOTED MATERIAL TYPE



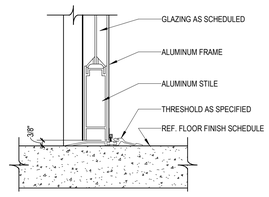
07 A7.02 TELESCOPING DOOR HEAD
3" = 1'-0"



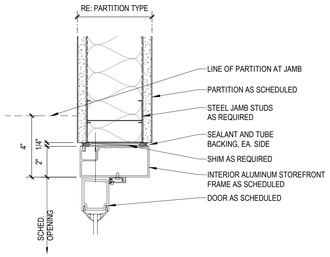
09 A7.02 TELESCOPING DOOR SILL
3" = 1'-0"



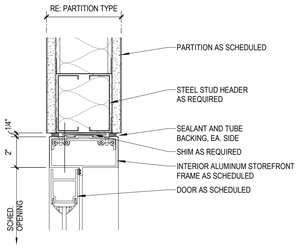
08 A7.02 TELESCOPING DOOR JAMB
3" = 1'-0"



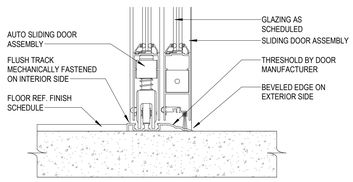
06 A7.02 TYP. INTERIOR STOREFRONT DOOR SILL
3" = 1'-0"



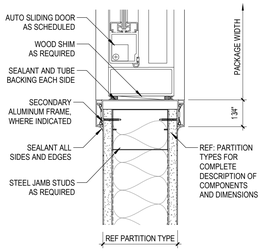
05 A7.02 TYP. INTERIOR STOREFRONT DOOR JAMB
3" = 1'-0"



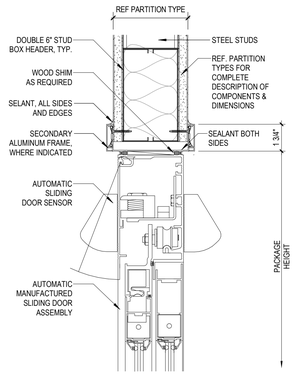
04 A7.02 TYP. INTERIOR STOREFRONT DOOR HEAD
3" = 1'-0"



03 A7.02 AUTO SLIDE DOOR SILL
3" = 1'-0"



02 A7.02 AUTO SLIDE DOOR JAMB
3" = 1'-0"



01 A7.02 AUTO SLIDE DOOR HEAD
3" = 1'-0"

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 e4harchitecture.com
869.781.8441

© 2026 E4H+ Environments for Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

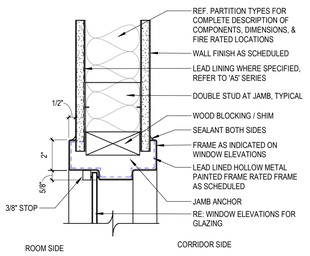
CURRENT:

SHEET TITLE AND NUMBER:

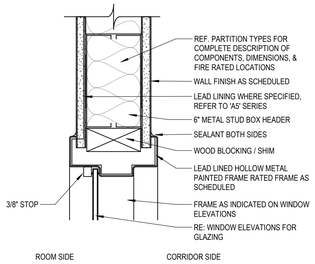
A7.02

DOOR SCHEDULE- MISCELLANEOUS

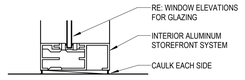
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL ARCH SIZE



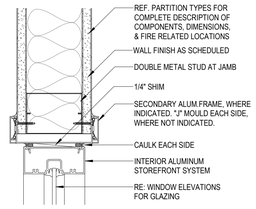
05 A7.10 HM WINDOW JAMB
3" = 1'-0"



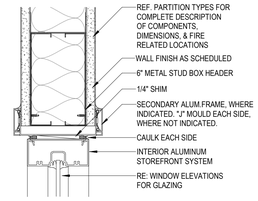
04 A7.10 HM WINDOW HEAD/ SILL
3" = 1'-0"



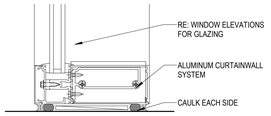
03 A7.10 STOREFRONT WINDOW STARTER SILL
3" = 1'-0"



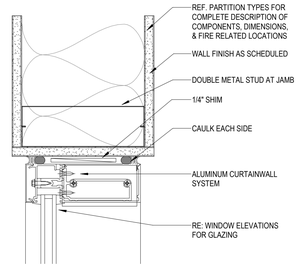
02 A7.10 STOREFRONT WINDOW JAMB
3" = 1'-0"



01 A7.10 STOREFRONT WINDOW HEAD
3" = 1'-0"



07 A7.10 CURTAINWALL WINDOW SILL
3" = 1'-0"



06 A7.10 CURTAINWALL WINDOW JAMB
3" = 1'-0"

GLAZING LEGEND

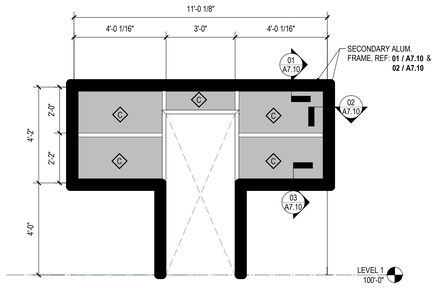
A	1 5/16" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR CURTAINWALL)
B	1 5/16" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR CURTAINWALL)
C	1/4" TEMPERED, SAFETY-RATED GLAZING - CLEAR (INTERIOR WINDOW/DOOR SYSTEMS)
D	1/4" FIRE-RATED, SAFETY-RATED GLAZING - CLEAR (INTERIOR FIRE-RATED DOORS)
E	9/16" LAMINATED DOOR INFILLING GLAZING - VISION - BLUE* (EXTERIOR VESTIBULE SLIDING DOOR)
F	1" INSULATED GLAZING UNIT - VISION - CLEAR* (INTERIOR CURTAINWALL SYSTEMS - VESTIBULE)
G	1-1/4" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR STOREFRONT & SWINGING DOORS)
H	1-1/4" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR STOREFRONT)

EXTERIOR GLAZING, BASIS OF DESIGN:
INSULATED GLAZING UNITS: SOLARBAN 70 ON SOLARBLUE(2) - AIR GAP - CLEAR + INTERLAYER + CLEAR

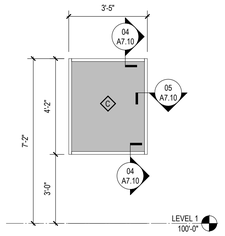
REFERENCE LISTED FLORIDA PRODUCT APPROVALS FOR GLAZING ASSEMBLY REQUIREMENTS - MUST MEET LEVEL "E" IMPACT

GLAZING GENERAL NOTES

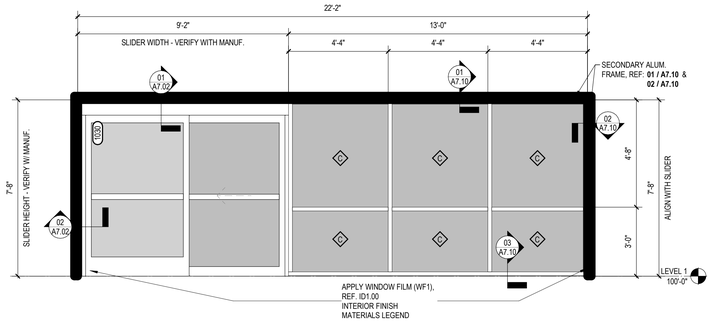
1. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
2. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENING. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS.
3. PROVIDE TEMPERED SAFETY GLAZING WHERE GLASS IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE.
4. PROVIDE TEMPERED SAFETY GLAZING WHERE THE EXPOSED GLASS PANE IS GREATER THAN 9 SF, AND EXPOSED BOTTOM EDGE IS LESS THAN 18" AFF, AND THE EXPOSED TOP EDGE IS GREATER THAN 36" AFF, AND THERE IS A WALKING SURFACE WITHIN 36" HORIZONTALLY OF THE PLANE OF GLAZING.
5. ALL EXTERIOR GLAZING AND WINDOW FRAMING SYSTEMS TO BE LARGE-MISSILE AND SMALL-MISSILE IMPACT RATED WITH CURRENT FLORIDA NOA.
6. ALL SPANDREL SHALL BE INSULATED BEHIND WITH RIGID INSULATION.



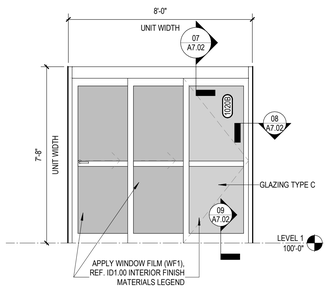
4 1/2" ALUMINUM STOREFRONT
G



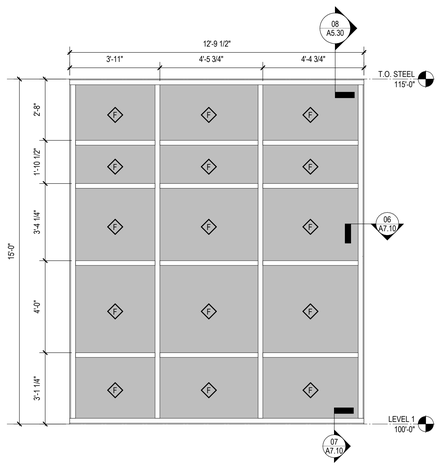
HOLLOW METAL
E



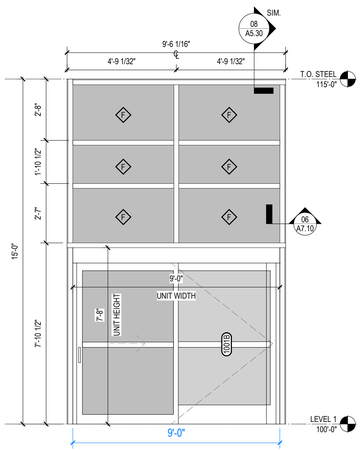
4 1/2" ALUMINUM STOREFRONT
D



4 1/2" ALUMINUM STOREFRONT
C



7 1/2" ALUMINUM CURTAINWALL
B



7 1/2" ALUMINUM CURTAINWALL
A

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A7.10

INTERIOR WINDOW ELEVATIONS AND DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ONLY

ARCH- MILLWORK- BASE AND FULL HEIGHT

TAG	TYPE	DESCRIPTION	CABINET BODY WIDTH	CABINET BODY HEIGHT	CABINET BODY DEPTH	NOMINAL FEATURE HEIGHT A	NOMINAL FEATURE HEIGHT B	NOMINAL FEATURE HEIGHT C	TOE KICK HEIGHT	TOE KICK DEPTH	CURRENT REV
B21	18X32.5X24A	CABINET- BASE- 1 DRAWER, 1 DOOR	18"	32 1/2"	24"	6"	22 1/2"		4"	3"	
B21	18X32.5X24A.	CABINET- BASE- 1 DRAWER, 1 DOOR	18"	32 1/2"	24"	6"	20 1/2"		6"	3"	
B23	24X32.5X24A	CABINET- BASE- 2 DRAWER, 2 DOOR	24"	32 1/2"	24"	6"	22 1/2"		4"	3"	
B23	27X32.5X24A.	CABINET- BASE- 2 DRAWER, 2 DOOR	27"	32 1/2"	24"	6"	20 1/2"		6"	3"	
B23	30X32.5X24A	CABINET- BASE- 2 DRAWER, 2 DOOR	30"	32 1/2"	24"	6"	22 1/2"		4"	3"	
B23	30X32.5X24A.	CABINET- BASE- 2 DRAWER, 2 DOOR	30"	32 1/2"	24"	6"	20 1/2"		6"	3"	
B23	30X32.5X30A.	CABINET- BASE- 2 DRAWER, 2 DOOR	30"	32 1/2"	30"	6"	22 1/2"		4"	3"	
B23	36X32.5X24A.	CABINET- BASE- 2 DRAWER, 2 DOOR	36"	32 1/2"	24"	6"	20 1/2"		6"	3"	
B51	30X32.5X24A	CABINET- BASE- SINK UNIT- ACCESSIBLE	30"	32 1/2"	24"	6"	17 1/2"		9"	6"	
B51	31X32.5X24A	CABINET- BASE- SINK UNIT- ACCESSIBLE	31"	32 1/2"	24"	6"	17 1/2"		9"	6"	
B62	30X32.5X24A	CABINET- BASE- OPEN- 2 SHELF	30"	32 1/2"	24"	6"	10 1/2"	12"	4"	3"	
B72	42x18x22	CABINET- BASE- LOCKER BENCH UNIT- ACCESSIBLE	42"	18"	22"	18"			4"		
F21	15X84X16A	CABINET- FULL HEIGHT- 2 DOOR (1X)	15"	84"	16"	40"	40"		4"	3"	
F21	18X84X16A.	CABINET- FULL HEIGHT- 2 DOOR (1X)	15"	84"	16"	39"	39"		6"	3"	
F23	28X84X24A.	CABINET- FULL HEIGHT- 2 DOOR (2X)	28"	84"	24"	78"			6"	3"	
F23	32X84X25A	CABINET- FULL HEIGHT- 2 DOOR (2X)	32"	84"	25"	80"			4"	3"	
F23	32X84X26A	CABINET- FULL HEIGHT- 2 DOOR (2X)	32"	84"	26"	80"			4"	3"	

ARCH- MILLWORK- UPPER CABINETS

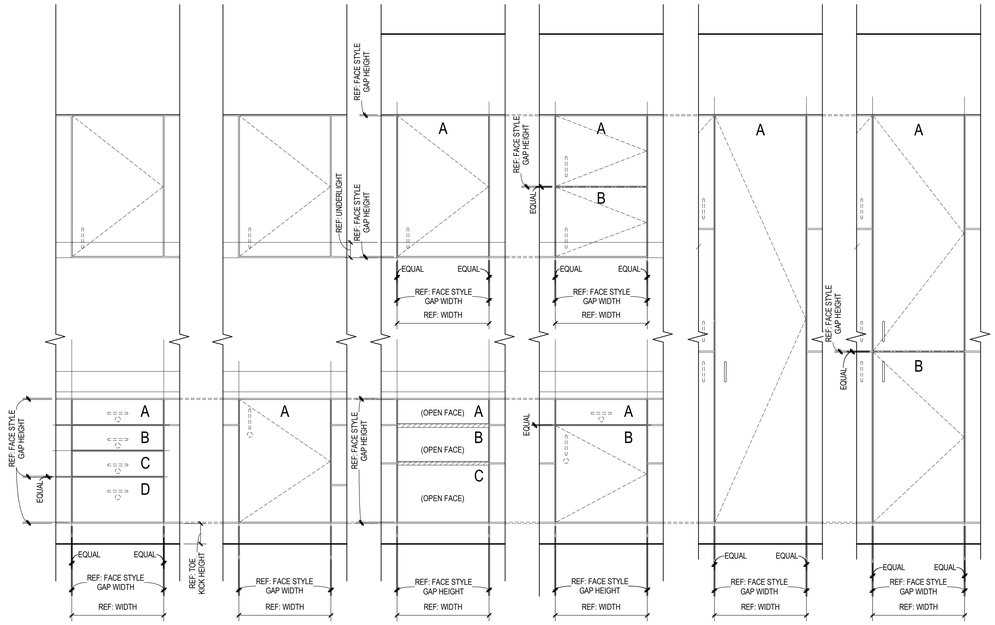
TAG	TYPE	DESCRIPTION	CABINET BODY WIDTH	CABINET BODY HEIGHT	CABINET BODY DEPTH	NOMINAL FEATURE HEIGHT A	NOMINAL FEATURE HEIGHT B	NOMINAL FEATURE HEIGHT C	UNDERLIGHT	CURRENT REV
U11	18X30x15A	CABINET- UPPER- 1 DOOR	18"	30"	15"	30"				
U12	24X30x15A	CABINET- UPPER- 2 DOOR	24"	30"	15"	30"				
U12	30X30x15A	CABINET- UPPER- 2 DOOR	30"	30"	15"	30"				
U12	33x30x15A	CABINET- UPPER- 2 DOOR	33"	30"	15"	30"				
U21	15X30x15A	CABINET- UPPER- UNDERLIGHT- 1 DOOR	15"	30"	15"	30"			3"	
U21	18X30x15A	CABINET- UPPER- UNDERLIGHT- 1 DOOR	18"	30"	15"	30"			3"	
U22	30X30x15A	CABINET- UPPER- UNDERLIGHT- 2 DOOR	30"	30"	15"	30"			3"	

1. WHEN MULTIPLE FEATURES (LETTERS) ARE PRESENT, "A" IS TOP MOST FEATURE. FEATURES ARE LETTERED ALPHANUMERICALLY TOP TO BOTTOM, PER CABINET.

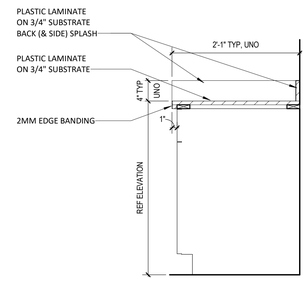
2. FACE STYLE GAP AND WIDTH DIMENSIONS SHOWN ON ELEVATIONS ARE TO BE INDUSTRY STANDARD UNLESS NOTED OTHERWISE.

3. MODELED CABINETS AND MILLWORK DETAILS ARE PRESENTED TO CONVEY FEATURE TYPE, SIZE AND SPACING, CABINET SIZE AND SPACING, HARDWARE TYPES, SIZES, AND SPACING. REFER TO SPECIFICATIONS FOR MILLWORK CONSTRUCTION TYPES.

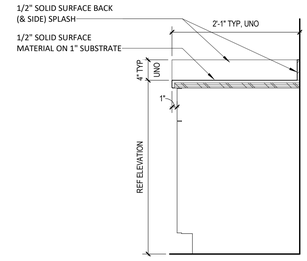
4. REFER TO INTERIOR ELEVATIONS FOR MATERIAL TAGS INDICATING EXTERIOR FINISHES. REFER TO SPECIFICATIONS FOR INTERIOR FINISHES.



01 A8.00 MILLWORK- CABINET FEATURE KEY
1" = 1'-0"



13 A8.00 **COUNTERTOP - P-LAM** 1" = 1'-0"

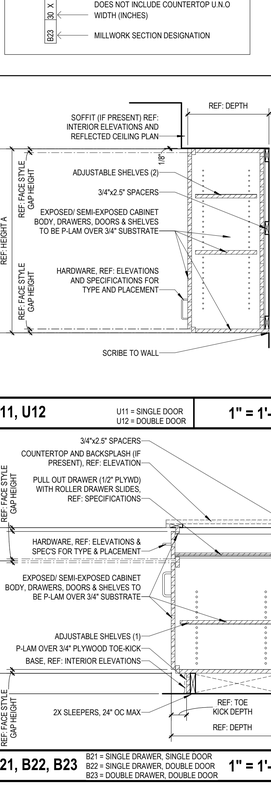


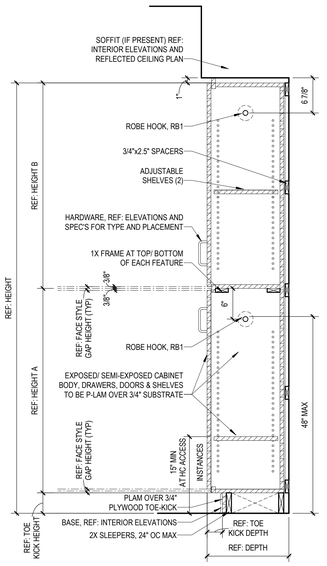
12 A8.00 **COUNTERTOP - SSM** 1" = 1'-0"

MILLWORK GENERAL NOTES

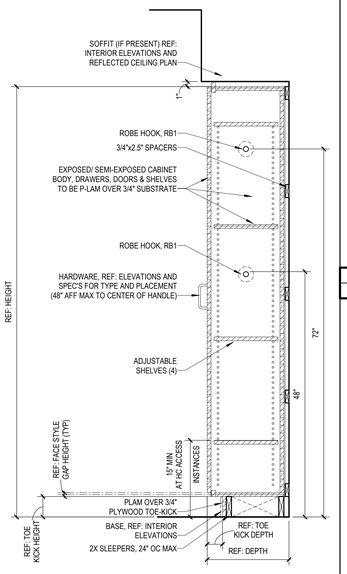
1. ALL EXPOSED CASEWORK SHALL HAVE PLASTIC LAMINATED FINISH SURFACES WITH WHITE MELAMINE CABINET LINER FOR INTERIOR SURFACES U.N.O., AND WHERE BALANCED CONSTRUCTION IS REQUIRED PER AWI. REFER TO INTERIOR FINISH MATERIALS LEGEND.
2. THE INTERIOR OF OPEN CABINETS SHALL BE PLASTIC LAMINATE TO MATCH THE CABINET EXTERIOR U.N.O.
3. WHERE INDICATED, PROVIDE 1 1/2" THICK END PANELS AT CASEWORK THAT DOES NOT ABUT A WALL.
4. THE CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT (O.F.E.) LOCATED WITHIN OR ADJACENT TO ANY PIECE OF CASEWORK.
5. REQUIRED FILLER PIECES SHALL BE EVENLY DISTRIBUTED/ INSTALLED TO ALLOW PROPER OPERATION OF DRAWERS AND DOORS.
6. CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO UNIT FABRICATION AND INSTALLATION. CONTACT ARCHITECT IN EVENT OF CONFLICT.
7. UNLESS NOTED OTHERWISE, COUNTERTOPS SHALL HAVE 4" HIGH BACK/ SIDE SPLASHES. SCRIBE BACK SPLASHES & SIDE SPLASHES TO CONFORM TO SURFACE OF ABUTTING WALLS AT BACKS AND ENDS. COUNTERTOPS AND BACK SPLASHES SHALL BE CAULKED TO WALLS.
8. REFERENCE ELEVATIONS AND MILLWORK SCHEDULE, THIS SHEET, FOR TOE-KICK HEIGHT AND DEPTH.
9. ALL EXPOSED SCREWS SHALL BE COUNTER SUNK AND TAMPER RESISTANT. NO FASTENERS ARE TO BE EXPOSED TO VIEW WITH CLOSED CABINET DOORS.
10. CASEWORK SHALL BE CAULKED AT ALL JUNCTURES WITH ADJOINING MATERIALS (INCLUDING SINKS, COUNTERTOPS, BASES, ETC.) EVEN THOUGH JOINT MAY NOT BE VISIBLE.
11. CASEWORK MANUFACTURER AND INSTALLER SHALL COORDINATE WITH APPROPRIATE SUBCONTRACTORS FOR INSTALLATION OF SINKS WITH ASSOCIATED PIPING AND FITTINGS, AND FOR INSTALLATION OF ELECTRICAL RECEPTACLES, LIGHT FIXTURES, TELEPHONE OUTLETS, COMMUNICATIONS OUTLETS, DICTATION OUTLETS, COMPUTER OUTLETS, ETC., WITHIN THE CASEWORK.
12. ALL COUNTERTOPS SHALL BE 2'-1" DEEP U.N.O. REFER TO SPECIFIC ELEVATIONS AND DETAILS FOR COUNTERTOP DEPTHS AT RECEPTION & NURSE STATIONS.
13. WHERE CABINETS INTERSECT AT CORNER CONDITIONS, ONE CABINET SHALL BE MODIFIED TO EXTEND THROUGH THE DEAD CORNER. TYPICAL FOR BASE AND WALL CABINETS.
14. ALLOW 3" GROMMETS AT BACK OF COUNTERTOPS FOR EVERY 3'-0" WORKSPACE WITH A MIN. OF 1 PER KNEE SPACE. GROMMET FINISH SHALL MATCH COUNTERTOP COLOR. (COORD. WITH OWNER FOR EXACT LOCATION PRIOR TO INSTALLATION).
15. PROVIDE 2" COUNTER SUPPORT BRACKETS AT 3'-0" O.C. MAX FOR SUPPORT AT KNEE SPACES AND/ OR AT COUNTERTOPS WITHOUT BASE CABINETS.
16. SHELVING OVER 36" WIDE SHALL BE 1" THICK IN LIEU OF THE STANDARD 3/4" THICKNESS.
17. WALL CABINETS WITHOUT A SOFFIT ABOVE SHALL RECEIVE A CONTINUOUS 6" HIGH VERTICAL SLOPED PANEL. FINISH TO MATCH CABINET EXTERIOR U.N.O.
18. SEE SERIES A3 FOR SOFFIT LOCATIONS ABOVE WALL MOUNTED CASEWORK AND TASK LIGHTING LOCATIONS.
19. TOP OF WALL CABINETS SHALL BE MOUNTED 7'-6" A.F.F. U.N.O. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
20. PROVIDE SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES, AND END PANELS OF ALL FIXED CASEWORK, WARDROBES, VERTICAL SUPPORTS, KNEE SPACES, ETC.
21. REFERENCE A6 SERIES ELEVATIONS FOR COUNTERTOP FINISHES. ALL CABINETS, VERTICAL FACES OF CASEWORK, AND P-LAM SOFFITS ARE TO BE PL1, UNO.
22. ALL CABINET PANELS UNDER SINKS SHALL BE FASTENED WITH CONCEALED HARDWARE TO ALLOW ACCESS BY MAINTENANCE STAFF. 2 HINGES ON ONE SIDE, CATCH WITH DOUBLE ROLLER AND SPIKE SPEAR ON OTHER. RE: SPECIFICATIONS.
23. ALL CASEWORK SHOWN AS H.C. ACCESSIBLE, AND HAVE SINKS SET WITHIN, SHALL BE BUILT TO PROVIDE THE MIN. KNEE CLEARANCE INDICATED WHILE MAINTAINING THE MAXIMUM ACCESSIBLE COUNTERTOP HEIGHT.

MILLWORK TAGS

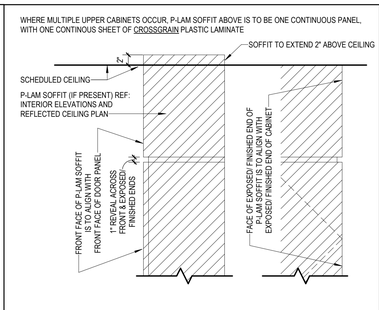




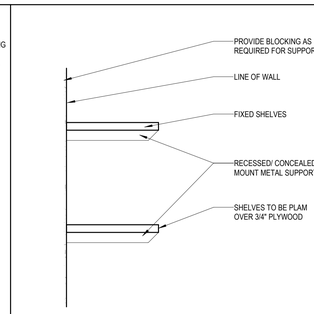
07 A8.00 **F21** F21=TWO HALF HEIGHT DOORS 1" = 1'-0"



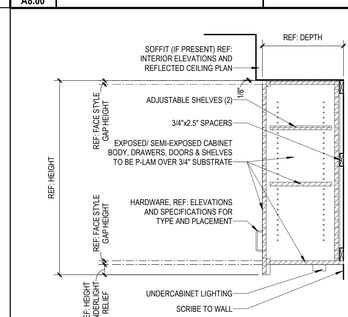
06 A8.00 **F23** F23=DOUBLE DOOR 1" = 1'-0"



11 A8.00 **CABINET/ SOFFIT FIN'D END** 1" = 1'-0"



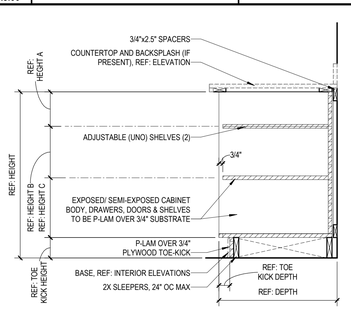
10 A8.00 **SOILED UTILITY** 1" = 1'-0"



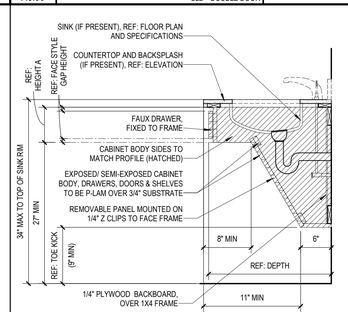
09 A8.00 **U21, U22** U21 = SINGLE DOOR U22 = DOUBLE DOOR 1" = 1'-0"

08 A8.00 **U11, U12** U11 = SINGLE DOOR U12 = DOUBLE DOOR 1" = 1'-0"

05 A8.00 **B72** 3/4" = 1'-0"



04 A8.00 **B62** 1" = 1'-0"



03 A8.00 **B51** 1" = 1'-0"

02 A8.00 **B21, B22, B23** B21 = SINGLE DRAWER, SINGLE DOOR B22 = SINGLE DRAWER, DOUBLE DOOR B23 = DOUBLE DRAWER, DOUBLE DOOR 1" = 1'-0"

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

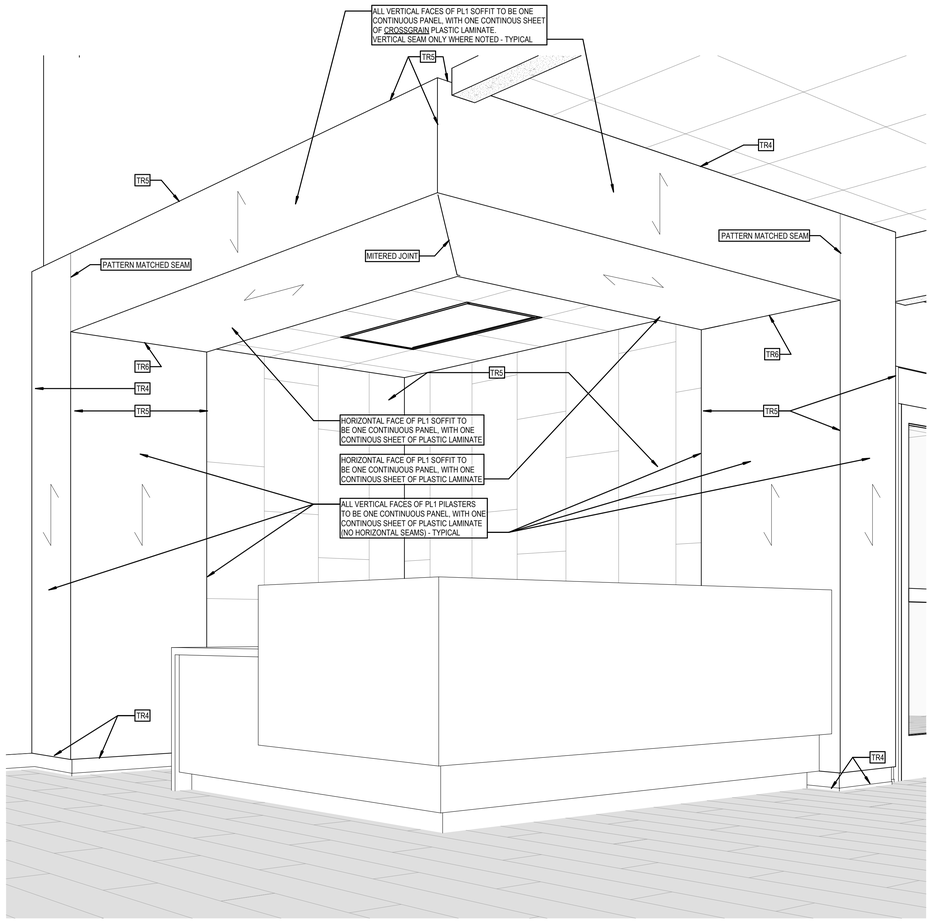
CURRENT:

SHEET TITLE AND NUMBER:

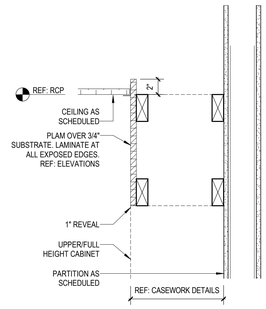
A8.00

MILLWORK TYPE SCHEDULE AND NOTES

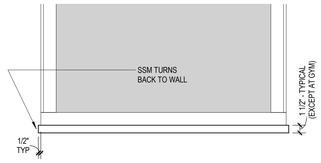
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS



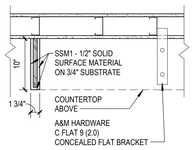
06 A8.01 RECEPTION STATION - PL1 PILASTERS & SOFFIT
NOT TO SCALE



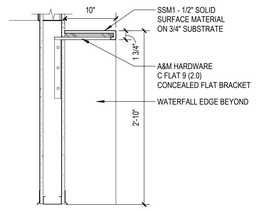
03 A8.01 TYPICAL P-LAM FURR DOWN AT WALL CABINETS
1 1/2" = 1'-0"



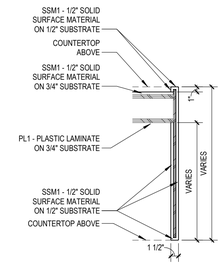
11 A8.01 TYPICAL WINDOW STOOL - ELEVATION
1" = 1'-0"



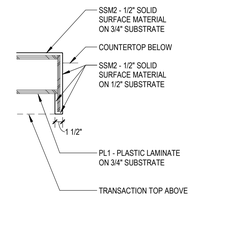
10 A8.01 PLAN DETAIL- PLANT LEDGE
1" = 1'-0"



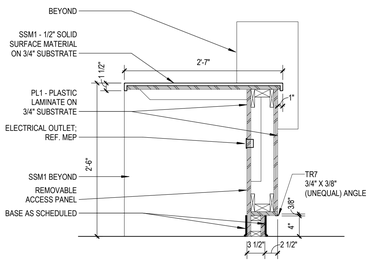
09 A8.01 SECTION - PLANT LEDGE
1" = 1'-0"



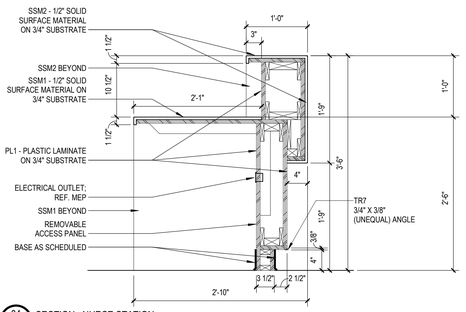
08 A8.01 PLAN DETAIL- COUNTERTOP WATERFALL EDGE - TYPICAL
1" = 1'-0"



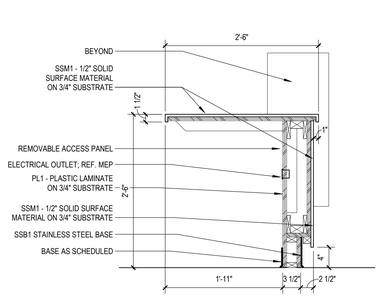
07 A8.01 PLAN DETAIL- TRANSACTION TOP WATERFALL EDGE - TYPICAL
1" = 1'-0"



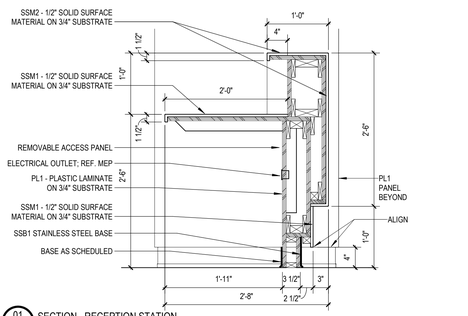
05 A8.01 SECTION - NURSE STATION
1" = 1'-0"



04 A8.01 SECTION - NURSE STATION
1" = 1'-0"



02 A8.01 SECTION - RECEPTION STATION
1" = 1'-0"



01 A8.01 SECTION - RECEPTION STATION
1" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

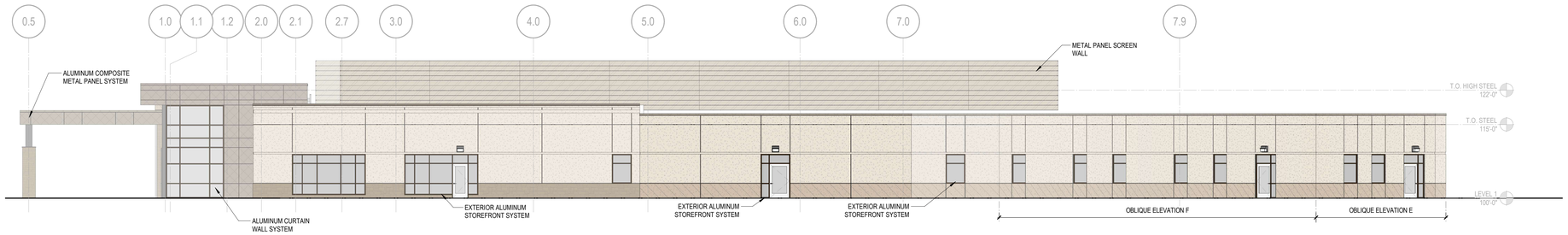
CURRENT:

SHEET TITLE AND NUMBER:

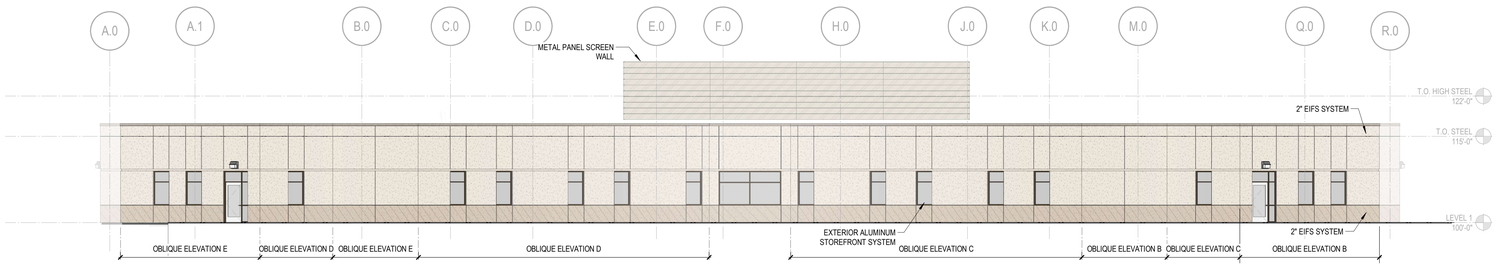
A8.01

MILLWORK SECTION & MISCELLANEOUS DETAILS

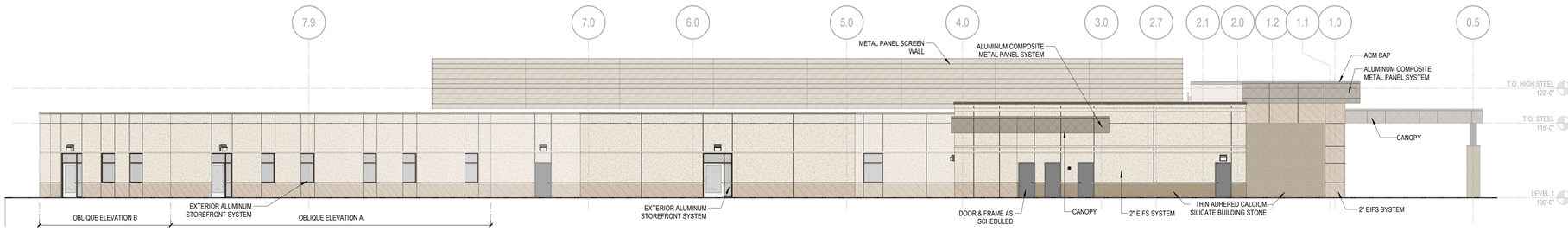
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL ARCHITECTURAL SHEETS



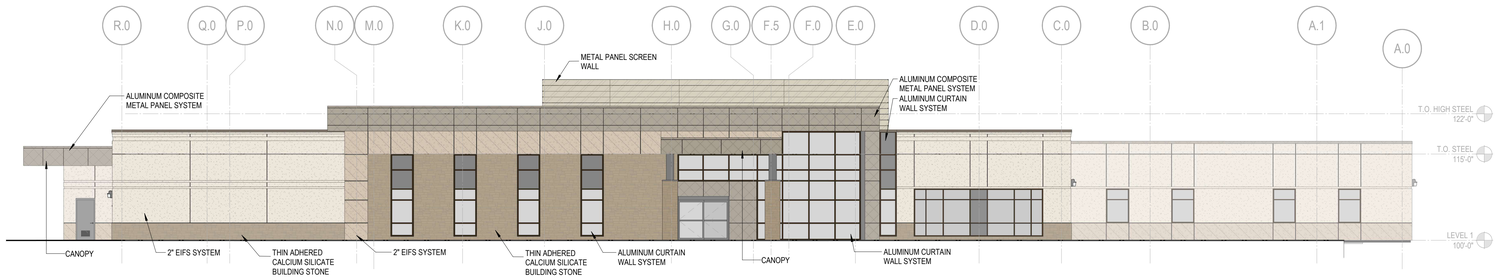
04 A9.01 NORTH ELEVATION
3/32" = 1'-0"



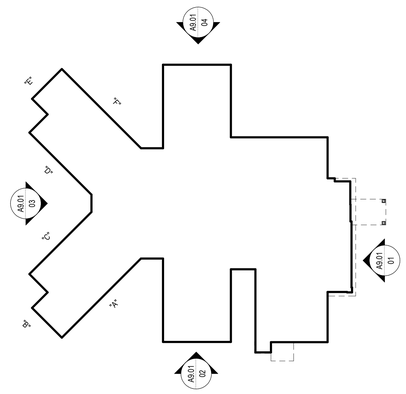
03 A9.01 WEST ELEVATION
3/32" = 1'-0"



02 A9.01 SOUTH ELEVATION
3/32" = 1'-0"



01 A9.01 EAST ELEVATION
3/32" = 1'-0"



ELEVATION KEY PLAN - TRUE NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com
888.781.8441

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

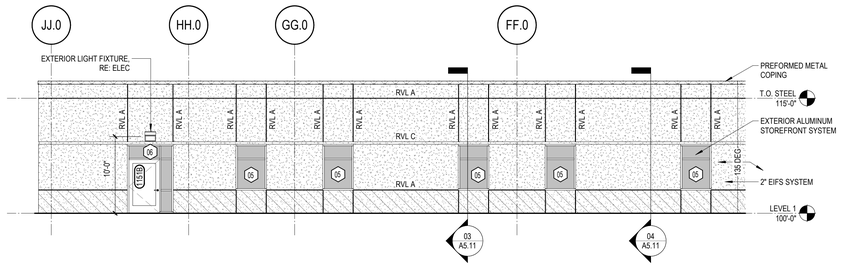
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

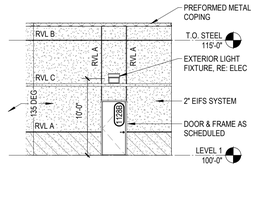
A9.01

ELEVATIONS- EXTERIOR-OVERALL

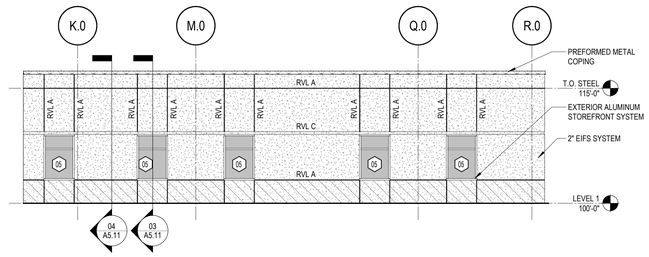
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 24" SHEETS ONE HALF INCH AT 12" SHEETS



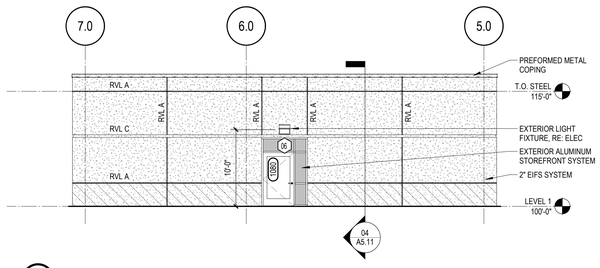
15 A9.02 EXTERIOR ELEVATION - SOUTHEAST
1/8" = 1'-0"



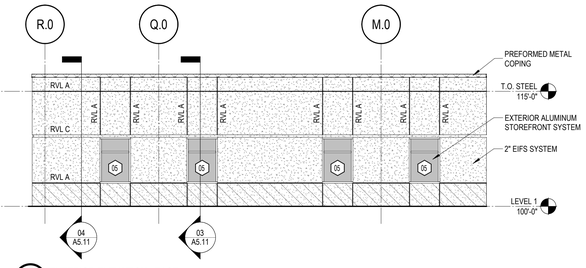
14 A9.02 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



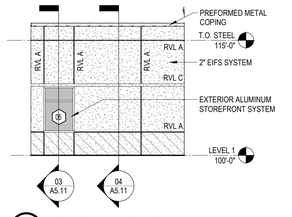
13 A9.02 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



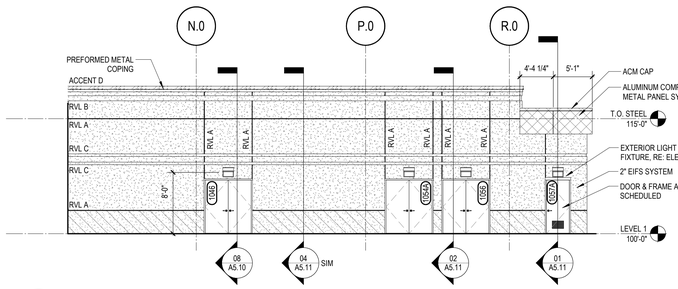
12 A9.02 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



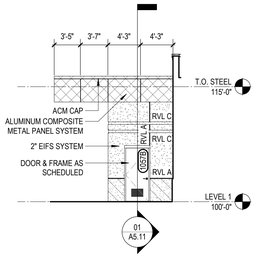
11 A9.02 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



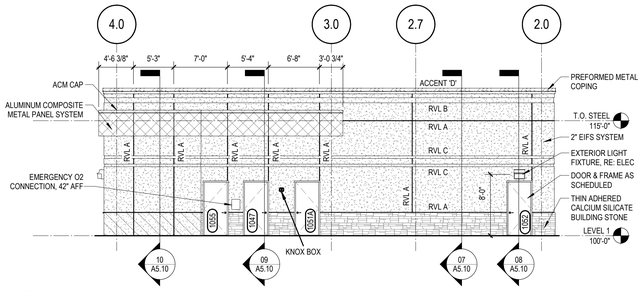
10 A9.02 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



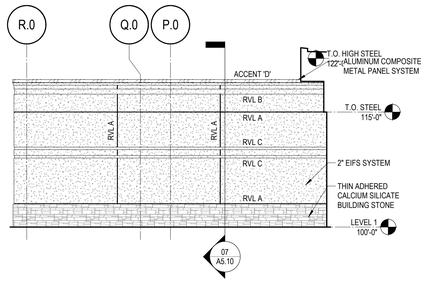
09 A9.02 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



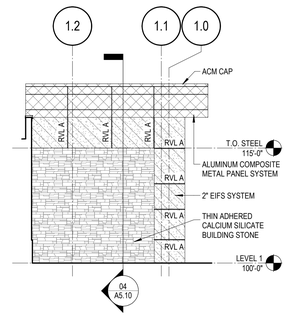
08 A9.02 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



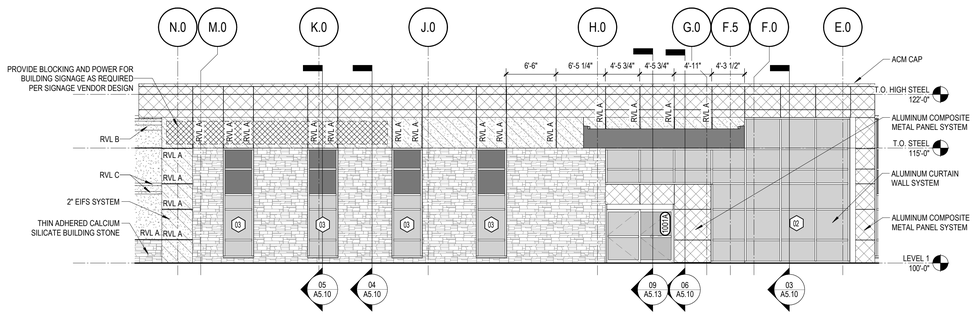
07 A9.02 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



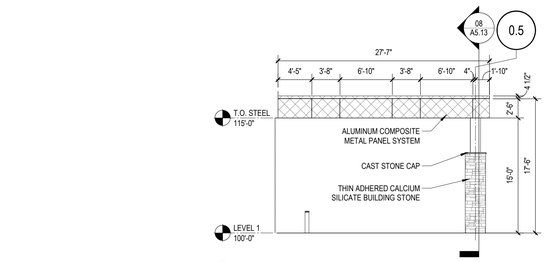
06 A9.02 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



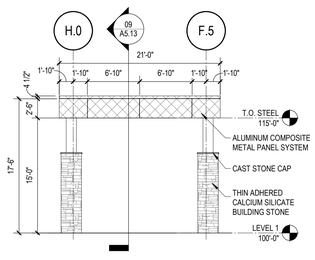
05 A9.02 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



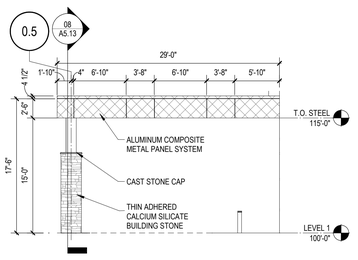
04 A9.02 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



03 A9.02 CANOPY ELEVATION - SOUTH
1/8" = 1'-0"



02 A9.02 CANOPY ELEVATION - EAST
1/8" = 1'-0"



01 A9.02 CANOPY ELEVATION - NORTH
1/8" = 1'-0"

EXTERIOR ELEVATIONS LEGEND

SIM
00 — SECTIONS
Ax.xx — DETAIL NUMBER / SHEET NUMBER
XXXX — TAGS: DOOR TAG, REFER TO DOOR SCHEDULE
XX — EXTERIOR WINDOW TAG, REFER TO WINDOW ELEVATIONS
RVL — REVEAL
CJ — CONTROL JOINT

GENERAL EXTERIOR ELEVATIONS NOTES

1. CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM EIFS SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN EIFS COLOR. REF. ELEV.
2. MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS.
3. MATCH MORTAR COLOR.
4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
5. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMODATE NOTED JOINT WIDTHS.

EXTERIOR MATERIAL LEGEND

THIN ADHERED CALCIUM SILICATE BUILDING STONE (STN01):
BASE OF DESIGN:
MANUFACTURER: ARRISCRAFT INTERNATIONAL
COLOR: BEACH SAWN STACK THIN BUILDING STONE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS01):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 6147 PANDA WHITE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS02):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 9110 MALABAR

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS03):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 7026 GRIFFIN

ALUMINUM COMPOSITE PANEL SYSTEM (ACM01):
BASE OF DESIGN:
MANUFACTURER: ALUCOBOND (3A COMPOSITES USA INC.)
COLOR: ANODIC SATIN MICA

METAL PANEL SYSTEM (MP01): **AT SCREENWALL AND DUMPSTER GATES
BASE OF DESIGN:
MANUFACTURER: BERRIDGE PANELS FW-12 (INSTALLED HORIZONTAL)
COLOR: MATCH FIELD PAINT (EIFS01)

INSULATED GLAZING UNIT, VISION: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

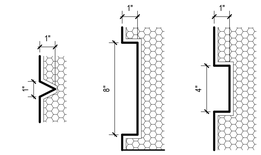
INSULATED GLAZING UNIT, SPANDREL: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + (WARM GRAY FRIT) CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

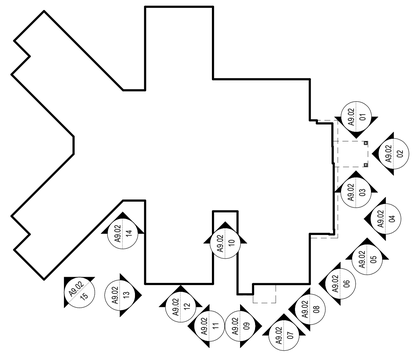
CONCRETE MASONRY UNIT (CMU01) SMOOTH FACE
BASE OF DESIGN:
MANUFACTURER: ECHELON MASONRY
COLOR: FINISH WITH EXTERIOR GRADE PAINT TO MATCH SW 6147 PANDA WHITE
SIZE: REFER TO STRUCTURE FOR SIZES

FLASHING TRANSITIONS AND COLORS

ACM SOFFIT TO EIFS WALL: LIGHT BEIGE
EIFS SOFFIT TO STONE WALL: LIGHT BEIGE
ACM BASE FLASHING: MATCH ACM
EIFS BASE FLASHING: LIGHT BEIGE
STONE BASE FLASHING: LIGHT BEIGE
EIFS TO WINDOW HEAD: DARK BRONZE
EIFS TO STONE TRANSITION: LIGHT BEIGE
ACM TO WINDOW HEAD: DARK BRONZE

EIFS REVEAL LEGEND





ELEVATION KEY PLAN - TRUE NORTH

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 869.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

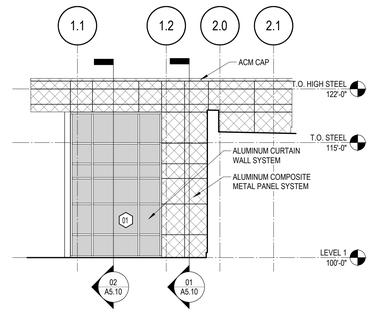
ORIG SUBMISSION: 02/13/26

CURRENT:

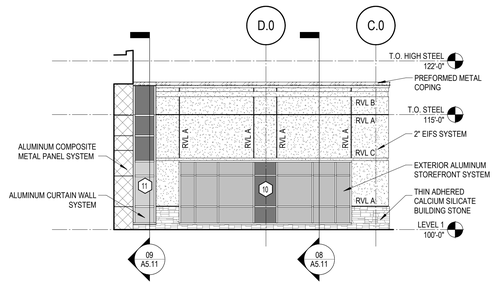
SHEET TITLE AND NUMBER:

A9.02

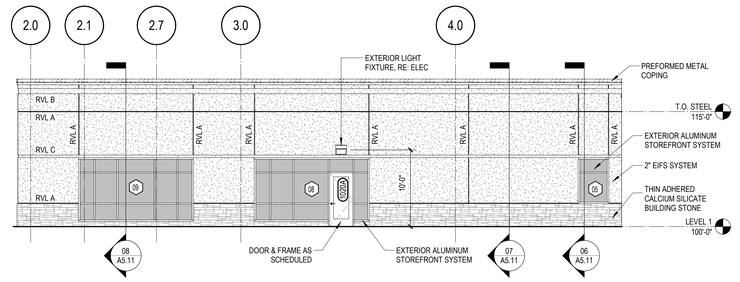
ELEVATIONS- EXTERIOR-BUILDING



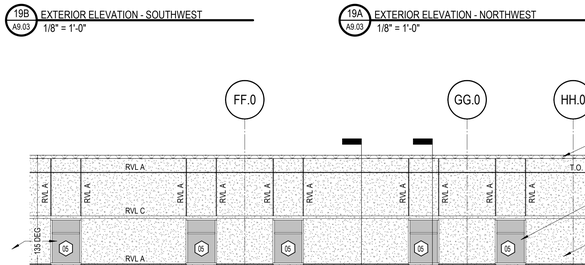
28 A9.03 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



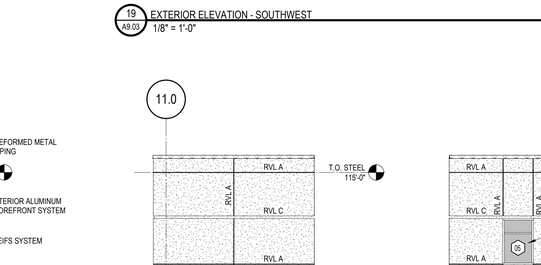
27 A9.03 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



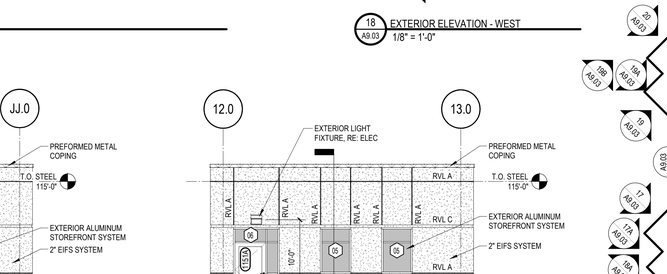
26 A9.03 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



25 A9.03 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



24 A9.03 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



23 A9.03 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

22 A9.03 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"

21 A9.03 EXTERIOR ELEVATION - NORTHEAST
1/8" = 1'-0"

20 A9.03 EXTERIOR ELEVATION - NORTHWEST
1/8" = 1'-0"

19B A9.03 EXTERIOR ELEVATION - SOUTHWEST
1/8" = 1'-0"

19A A9.03 EXTERIOR ELEVATION - NORTHWEST
1/8" = 1'-0"

19 A9.03 EXTERIOR ELEVATION - SOUTHWEST
1/8" = 1'-0"

18 A9.03 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

17 A9.03 EXTERIOR ELEVATION - NORTHWEST
1/8" = 1'-0"

18A A9.03 EXTERIOR ELEVATION - SOUTHWEST
1/8" = 1'-0"

17A A9.03 EXTERIOR ELEVATION - NORTHWEST
1/8" = 1'-0"

16 A9.03 EXTERIOR ELEVATION - SOUTHWEST
1/8" = 1'-0"

EXTERIOR ELEVATIONS LEGEND

SIM
00 / A.xxx — SECTIONS: DETAIL NUMBER / SHEET NUMBER
XXXX — TAGS: DOOR TAG, REFER TO DOOR SCHEDULE
XX — EXTERIOR WINDOW TAG, REFER TO WINDOW ELEVATIONS
RVL — REVEAL
CJ — CONTROL JOINT

GENERAL EXTERIOR ELEVATIONS NOTES

1. CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM EIFS SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN EIFS COLOR. REF. ELEV.
2. MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS.
3. MATCH MORTAR COLOR.
4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
5. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMODATE NOTED JOINT WIDTHS.

EXTERIOR MATERIAL LEGEND

THIN ADHERED CALCIUM SILICATE BUILDING STONE (STN01):
BASE OF DESIGN:
MANUFACTURER: ARRISCRAFT INTERNATIONAL
COLOR: BEACH SAWN STACK THIN BUILDING STONE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS01):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 6147 PANDA WHITE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS02):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 9110 MALABAR

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS03):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 7026 GRIFFIN

ALUMINUM COMPOSITE PANEL SYSTEM (ACM01):
BASE OF DESIGN:
MANUFACTURER: ALUCOBOND (3A COMPOSITES USA INC.)
COLOR: ANODIC SATIN MICA

METAL PANEL SYSTEM (MP01): **AT SCREENWALL AND DUMPSTER GATES
BASE OF DESIGN:
MANUFACTURER: BERRIDGE PANELS FW-12 (INSTALLED HORIZONTAL)
COLOR: MATCH FIELD PAINT (EIFS01)

INSULATED GLAZING UNIT, VISION: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

INSULATED GLAZING UNIT, SPANDREL: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + (WARM GRAY FRIT) CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

CONCRETE MASONRY UNIT (CMU01) SMOOTH FACE
BASE OF DESIGN:
MANUFACTURER: ECHELON MASONRY
COLOR: FINISH WITH EXTERIOR GRADE PAINT TO MATCH SW 6147 PANDA WHITE
SIZE: REFER TO STRUCTURE FOR SIZES

FLASHING TRANSITIONS AND COLORS

ACM SOFFIT TO EIFS WALL: LIGHT BEIGE
EIFS SOFFIT TO STONE WALL: LIGHT BEIGE
ACM BASE FLASHING: MATCH ACM
EIFS BASE FLASHING: LIGHT BEIGE
STONE BASE FLASHING: LIGHT BEIGE
EIFS TO WINDOW HEAD: DARK BRONZE
EIFS TO STONE TRANSITION: LIGHT BEIGE
ACM TO WINDOW HEAD: DARK BRONZE

EIFS REVEAL LEGEND

ELEVATION KEY PLAN - TRUE NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

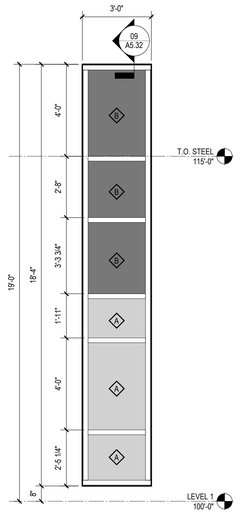
SHEET TITLE AND NUMBER:

A9.03

ELEVATIONS- EXTERIOR-BUILDING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ARCH D SHEETS ORIGINAL AS SIZED

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



8 13/16" ALUMINUM CURTAIN WALL SYSTEM
11

GLAZING LEGEND

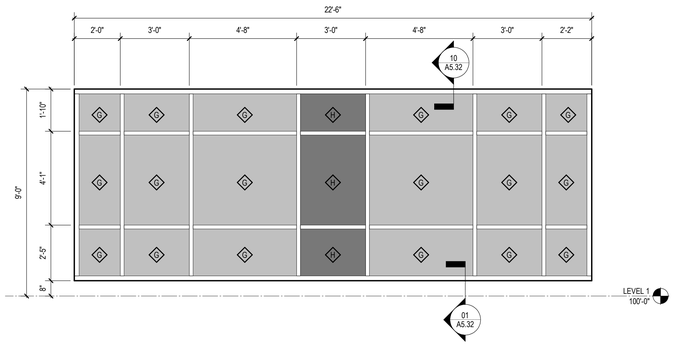
- A — 1 5/16" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR CURTAINWALL)
- B — 1 5/16" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR CURTAINWALL)
- C — 1/4" TEMPERED, SAFETY-RATED GLAZING - CLEAR (INTERIOR WINDOW/DOOR SYSTEMS)
- D — 1/4" FIRE-RATED, SAFETY-RATED GLAZING - CLEAR (INTERIOR FIRE-RATED DOORS)
- E — 9/16" LAMINATED DOOR INFILLING GLAZING - VISION - BLUE* (EXTERIOR VESTIBULE SLIDING DOOR)
- F — 1" INSULATED GLAZING UNIT - VISION - CLEAR* (INTERIOR CURTAINWALL SYSTEMS - VESTIBULE)
- G — 1-1/4" INSULATED LAMINATED GLAZING UNIT - VISION - BLUE* (EXTERIOR STOREFRONT & SWINGING DOORS)
- H — 1-1/4" INSULATED LAMINATED GLAZING UNIT - SPANDREL - GRAY FRIT* (EXTERIOR STOREFRONT)

EXTERIOR GLAZING, BASIS OF DESIGN:
INSULATED GLAZING UNITS: SOLARBAN 70 ON SOLARBLUE(2) - AIR GAP - CLEAR + INTERLAYER + CLEAR

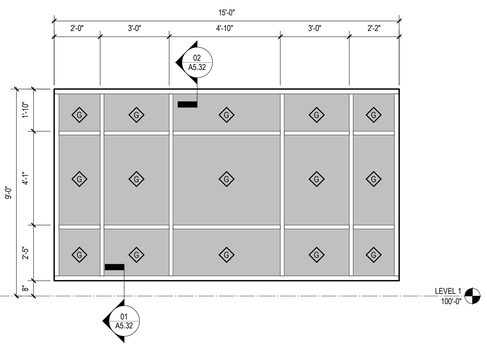
REFERENCE LISTED FLORIDA PRODUCT APPROVALS FOR GLAZING ASSEMBLY REQUIREMENTS - MUST MEET LEVEL "E" IMPACT

GLAZING GENERAL NOTES

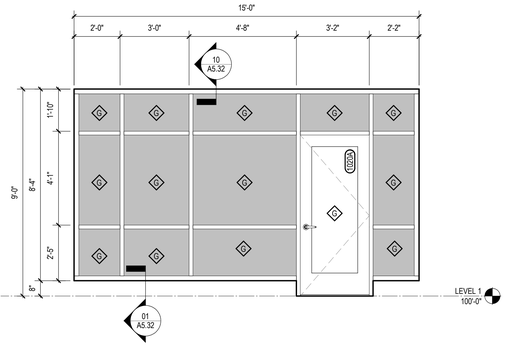
1. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
2. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENING. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMMODATE NOTED JOINT WIDTHS.
3. PROVIDE TEMPERED SAFETY GLAZING WHERE GLASS IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE.
4. PROVIDE TEMPERED SAFETY GLAZING WHERE THE EXPOSED GLASS PANE IS GREATER THAN 9 SF, AND EXPOSED BOTTOM EDGE IS LESS THAN 18" AFF, AND THE EXPOSED TOP EDGE IS GREATER THAN 36" AFF, AND THERE IS A WALKING SURFACE WITHIN 36" HORIZONTALLY OF THE PLANE OF GLAZING.
5. ALL EXTERIOR GLAZING AND WINDOW FRAMING SYSTEMS TO BE LARGE-MISSILE AND SMALL-MISSILE IMPACT RATED WITH CURRENT FLORIDA NOA.
6. ALL SPANDREL SHALL BE INSULATED BEHIND WITH RIGID INSULATION.



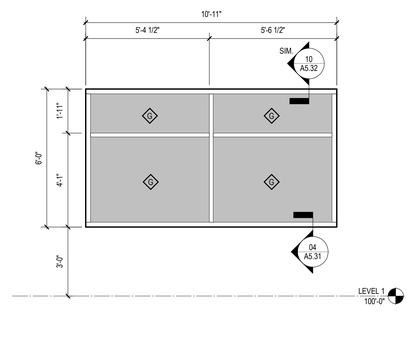
5" ALUMINUM STOREFRONT SYSTEM
10



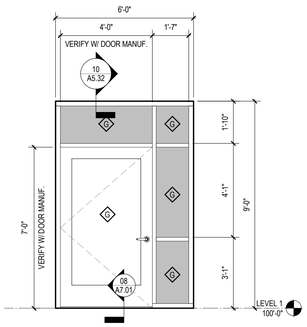
5" ALUMINUM STOREFRONT SYSTEM
09



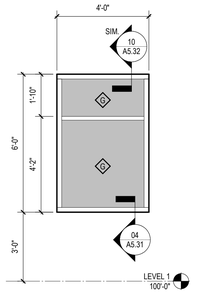
5" ALUMINUM STOREFRONT SYSTEM
08



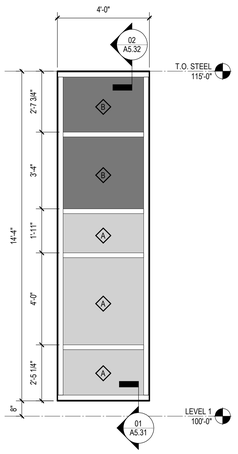
5" ALUMINUM STOREFRONT SYSTEM
07



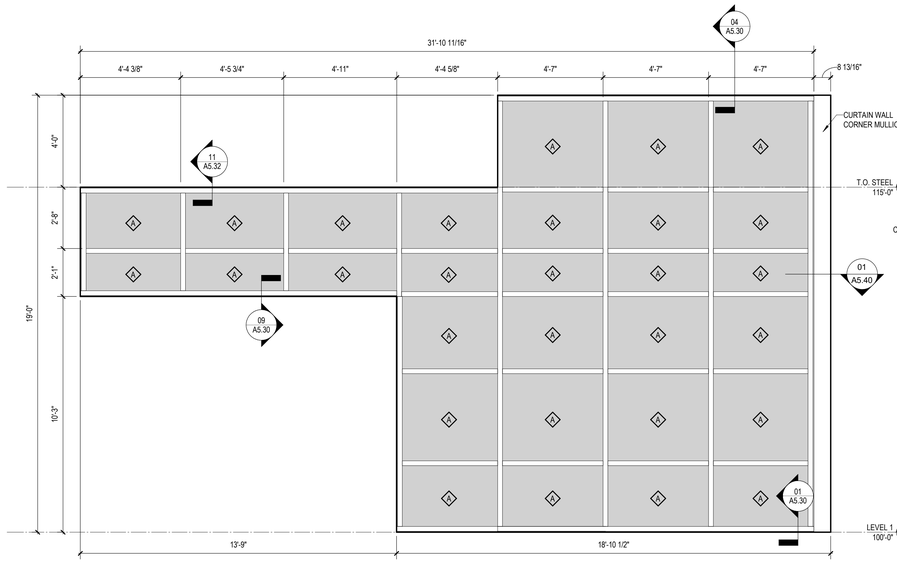
5" ALUMINUM STOREFRONT SYSTEM
06



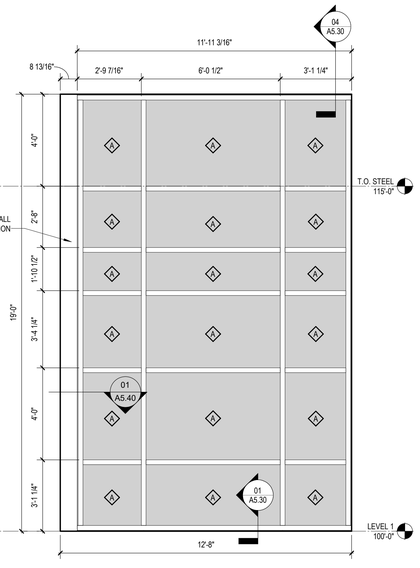
5" ALUMINUM STOREFRONT SYSTEM
06



8 13/16" ALUMINUM CURTAIN WALL SYSTEM
03



8 13/16" ALUMINUM CURTAIN WALL SYSTEM
02



8 13/16" ALUMINUM CURTAIN WALL SYSTEM
01

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

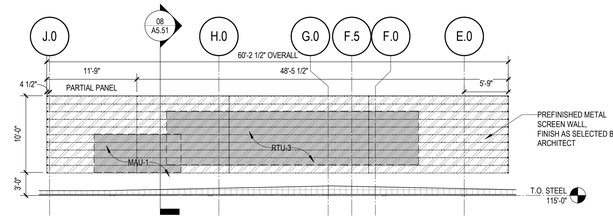
CURRENT:

SHEET TITLE AND NUMBER:

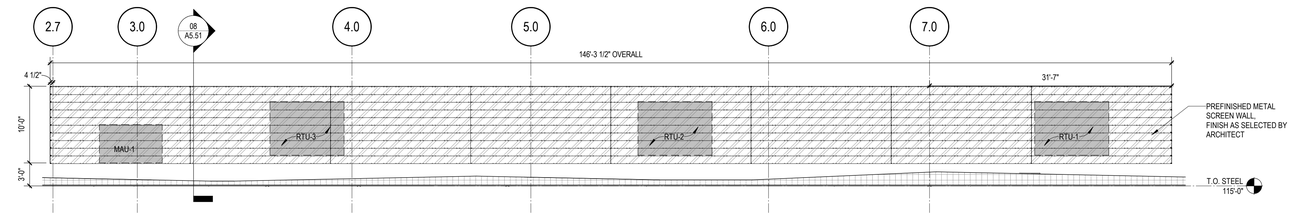
A9.04

ELEVATIONS- EXTERIOR- WINDOWS

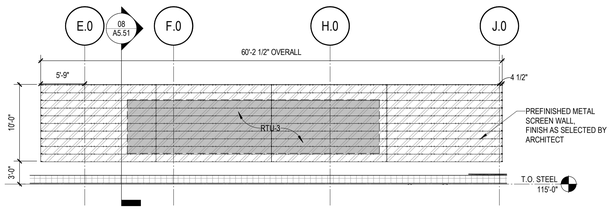
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



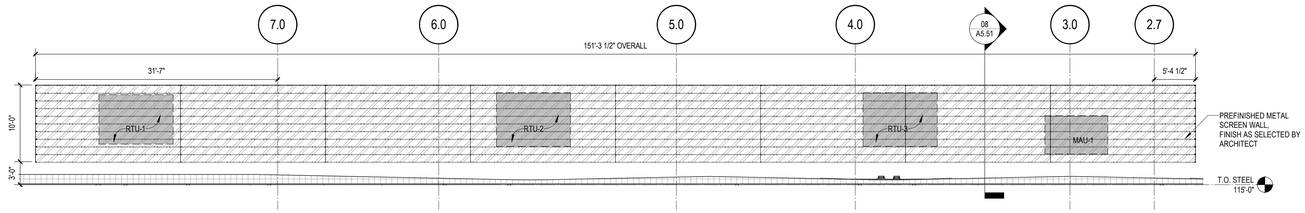
01 A9.05 RTU SCREEN WALL - EAST
1/8" = 1'-0"



02 A9.05 RTU SCREEN WALL - NORTH
1/8" = 1'-0"



03 A9.05 RTU SCREEN WALL - WEST
1/8" = 1'-0"



04 A9.05 RTU SCREEN WALL - SOUTH
1/8" = 1'-0"

GENERAL NOTE FOR ROOF SCREEN ELEVATIONS

1. THE CONTRACTOR SHALL COORDINATE THE TOP OF THE ROOF SCREEN SYSTEM WITH THE HEIGHT OF ALL SELECTED ROOFTOP EQUIPMENT, INCLUDING BUT NOT LIMITED TO: TOP OF STEEL, ROOF FINISH ELEVATION, AND ROOF CURB HEIGHTS. THE SCREEN WALL MUST FULLY CONCEAL ALL UNITS WITH NO DIRECT LINE OF SIGHT, ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER.

EXTERIOR ELEVATIONS LEGEND



SECTIONS
DETAIL NUMBER
SHEET NUMBER

TAGS
DOOR TAG, REFER TO DOOR SCHEDULE
EXTERIOR WINDOW TAG, REFER TO WINDOW ELEVATIONS
REVEAL
CONTROL JOINT

GENERAL EXTERIOR ELEVATIONS NOTES

1. CONTROL JOINTS ARE TO BE PROVIDED CONSISTENT WITH BUILDING ELEVATIONS. MAXIMUM EIFS SIZE SHALL NOT EXCEED 144 SQ. FT. FROM CONTROL JOINT TO CONTROL JOINT(S) AT ANY EXTERIOR LOCATION. PROVIDE VERTICAL PROPRIETARY REVEAL AT THE CORNER OF A CHANGE IN EIFS COLOR. REF. ELEV.
2. MASONRY EXPANSION AND CONTROL JOINTS ARE TO BE PROVIDED PER MANUFACTURER AND TRADE INDUSTRY STANDARDS.
3. MATCH MORTAR COLOR.
4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
5. IDENTIFIED DIMENSIONS ARE TO ROUGH OPENINGS. GC TO FIELD VERIFY ALL OPENINGS AND ADJUST FRAMING DIMENSIONS TO ACCOMODATE NOTED JOINT WIDTHS.

EXTERIOR MATERIAL LEGEND

THIN ADHERED CALCIUM SILICATE BUILDING STONE (STN01):
BASE OF DESIGN:
MANUFACTURER: ARRISCRAFT INTERNATIONAL
COLOR: BEACH SAWN STACK THIN BUILDING STONE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS01):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 6147 PANDA WHITE

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS02):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 9110 MALABAR

EXTERIOR INSULATION AND FINISH SYSTEM W/ WATER DRAINAGE (EIFS03):
BASE OF DESIGN:
MANUFACTURER: STO CORP. - STO ESSENCE FINISH
TEXTURE: FINE
COLOR: MATCH SW 7026 GRIFFIN

ALUMINUM COMPOSITE PANEL SYSTEM (ACM01):
BASE OF DESIGN:
MANUFACTURER: ALUCOBOND (3A COMPOSITES USA INC.)
COLOR: ANODIC SATIN MICA

METAL PANEL SYSTEM (MP01): **AT SCREENWALL AND DUMPSTER GATES
BASE OF DESIGN:
MANUFACTURER: BERRIDGE PANELS FW-12 (INSTALLED HORIZONTAL)
COLOR: MATCH FIELD PAINT (EIFS01)

INSULATED GLAZING UNIT, VISION: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

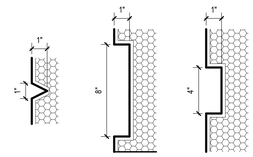
INSULATED GLAZING UNIT, SPANDREL: REFER TO GLAZING ELEVATIONS
BASE OF DESIGN:
MANUFACTURER: VITRO ARCHITECTURAL GLASS
PRODUCT: SOLARBAN 70 (2) SOLARBLUE + (WARM GRAY FRIT) CLEAR
FRAME AND MULLION FINISH: DARK BRONZE

CONCRETE MASONRY UNIT (CMU01) SMOOTH FACE
BASE OF DESIGN:
MANUFACTURER: ECHELON MASONRY
COLOR: FINISH WITH EXTERIOR GRADE PAINT TO MATCH SW 6147 PANDA WHITE
SIZE: REFER TO STRUCTURE FOR SIZES

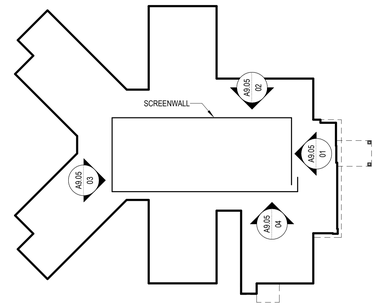
FLASHING TRANSITIONS AND COLORS

ACM SOFFIT TO EIFS WALL: LIGHT BEIGE
EIFS SOFFIT TO STONE WALL: LIGHT BEIGE
ACM BASE FLASHING: MATCH ACM
EIFS BASE FLASHING: LIGHT BEIGE
STONE BASE FLASHING: LIGHT BEIGE
EIFS TO WINDOW HEAD: DARK BRONZE
EIFS TO STONE TRANSITION: LIGHT BEIGE
ACM TO WINDOW HEAD: DARK BRONZE

EIFS REVEAL LEGEND



REVEAL "A" REVEAL "B" REVEAL "C"



ELEVATION KEY PLAN - TRUE NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

A9.05

ELEVATIONS - MECHANICAL SCREEN WALLS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH D SHEETS

INTERIOR FINISH MATERIAL LEGEND

TAG	MANUFACTURER	ITEM	COLOR/ TEXTURE	SIZE	COMMENTS	FLAME SPREAD	CONTACT
ACOUSTICAL PANEL CEILING							
APC1	ARMSTRONG	DUNE 1772, SQUARE LAY-IN	WHITE	24" X 24" X 5/8"	GRID: PRELUDE XL 15/16"	CLASS A; ASTM E-84	ELISSA SWEARY, 469.597.3758
APC2	ARMSTRONG	CLEAN ROOM VL 868	WHITE	24" X 24" X 5/8"	GRID: CLEAN ROOM 15/16" WITH HOLD DOWN CLIPS	CLASS A, ASTM E-84	ELISSA SWEARY, 469.597.3758
ACOUSTICAL WOOD PLANK CEILING							
AWPC1	RULON	OPEN LINEAR TOUNGE AND GROOVE WITH BLACK ABS SPACERS CLASS A FIRE TREATMENT	ASH - GREY WASH	4" (S) MODULE: 3-1/4" BOARD WITH 3/4" REVEAL; LENGTH: VARIES	GRID: PRELUDE XL15/16" BLACK CLIP RAILS INCLUDED. FIELD CUT ACCESS PANELS REQUIRED.	CLASS A FLAME SPREAD	BRANDON BYRD, 904.584.1400 NATIONALACCOUNTS@RULONCO.COM
CARPET TILE							
CPT1	SHAW	HABITAT TILE 5T390-88760	BRANCH	9" X 36"	INSTALL: ASHLAR	CLASS I, RADIANT PANEL	JESSI CAIN, 214.695.6189
CUBICLE CURTAIN							
CC1	STANDARD TEXTILE	CALLISTO	CM006605 FRESH; MESH - WHITE	72" W; REPEAT 10" V, 18 1/2" H		CLASS A, ASTM E-84	KRISTIN HAIN, 336.847.2365
EXPOSED TO STRUCTURE							
ETS							
FIBER REINFORCED PANEL							
FRP1	MARLITE	STANDARD FRP, CLASS A	P151 LIGHT GREY, PEBBLE TEXTURE	0.090", 4' X 10'	INSTALL FULL HEIGHT	CLASS A, ASTM E-84	DAN EGBERS, 330.230.7633
LUXURY VINYL TILE							
LVT1	TARKETT	ID LATITUDE WOOD PLWD	3606 CHAMOIS OAK	6" X 48"; 3.0 MM	INSTALL: 33% OFFSET	CLASS I; ASTM E648, CRF	SHAWN SUMMEY, 469.599.0803
LVT2	EF CONTRACT	PLATEAU EFCP2002	TERRA	18" X 36"; 2.5 MM	INSTALL: 33% OFFSET; MUST BE FLOATED WHEN ADJACENT TO LVT1	CLASS I, RADIANT PANEL, ASTM E-648	MATTHEW SHUMWAY, 469.450.8439
PAINT							
PT1	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL B20-2600 SERIES	SW7005 PURE WHITE; INTERIOR LATEX, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		FIELD PAINT, TYPICAL	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT1B	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED EPOXY	SW7005 PURE WHITE; WATER BASED CATALYZED EPOXY, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		FIELD PAINT, EPOXY	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT2B	SHERWIN WILLIAMS	PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY	SW7046 ANONYMOUS; PRO INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY, SMOOTH TEXTURE. SEMI-GLOSS FINISH		DOOR FRAMES	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT3	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL B20-2600 SERIES	SW0019 FESTOON AQUA; INTERIOR LATEX, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		ACCENT PAINT	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT3B	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED EPOXY	SW0019 FESTOON AQUA; WATER BASED CATALYZED EPOXY, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		ACCENT PAINT, EPOXY	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT4	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR LATEX FLAT B30 SERIES	SW7005 PURE WHITE; INTERIOR LATEX, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. FLAT FINISH		CEILING, TYPICAL	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT4B	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED EPOXY	SW7005 PURE WHITE; WATER BASED CATALYZED EPOXY, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		CEILING, EPOXY	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PT5	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC INTERIOR LATEX EGGSHELL	SW6486 REFLECTING POOL; INTERIOR LATEX, ROLLER-APPLIED LIGHT STIPPLE TEXTURE. EGGSHELL FINISH		ACCENT PAINT	CLASS A FLAME SPREAD	CHAR HETCHER, 469.822.2881
PLASTIC LAMINATE							
PL1	WILSONART	7850-60 BEIGEWOOD	MATTE FINISH	4' X 10', 4' X 12', 5' X 8', 5' X 10' 4' X 12' CROSSGRAIN AT PL1 SOFFITS	DOORS; MILLWORK, WITH 1MM & 3MM EDGEBANDING, WILSONART BEIGEWOOD	CLASS B, SMOKE DEVELOPED 155	LISA PORTILLO, 254.721.2374
PL2	WILSONART	4924-38 WHITE CARRARA	FINE VELVET FINISH		COUNTERTOPS WHERE NOTED, WITH 3MM EDGEBANDING. CHARTER INDUSTRIES W4924 WHITE CARRARA	CLASS B, SMOKE DEVELOPED 155	LISA PORTILLO, 254.721.2374
QUARTZ SURFACING MATERIAL							
QSM1	WILSONART	Q4063	VICENTIA	2CM, 3CM; 55" X 120"	DINING; REFERENCE DIETARY DRAWINGS/ PROVIDED BY DIETARY	CLASS 1/A RATING, ASTM E 84	LISA PORTILLO, 254.721.2374
RESILIENT QUARTZ TILE							
RT1	ALTRO	QUARTZ TILE CD-9302	ROCK SALT CD	24" X 24"; 2.0 MM	INSTALL QUARTER TURNED; MUST BE FLOATED WHEN ADJACENT TO LVT1	CLASS I, TYPE A, ASTM F1700	GABRIELE STEVENSON, 817.473.8986
RESINOUS FLOORING							
RSF1	DUR-A-FLEX	HYBRI-FLEX EC - EPOXY FLOORING SYSTEM WITH 6" H INTERGRAL COVE BASE	MICRO CHIP - GALAXY		REFERENCE ID1.00a FOR REQ'D TOP CAP & TRANSITION PROFILES	CLASS II; ASTM E-648; ASTM D-635, SELF EXTINGUISHING	JOHN DAVIS, 214.551.2066
RUBBER BASE							
RB1	ROPPE	STANDARD TOE PINNACLE RUBBER BASE	129 DOLPHIN	4" H; 120' L	JOB-BUILT CORNERS. BOTTOM OF BASE SHALL BE SEALED TO FLOOR WITH CLEAR SEALANT AS REQUIRED BY BOARD OF HEALTH	CLASS I, ASTM E-648; CLASS B ASTM E-84	TABITHA MYERS, 303.437.6556
RB2	ROPPE	SIMPLICITY #00 PINNACLE PLUS RUBBER BASE	129 DOLPHIN	4" H; 60' L	JOB-BUILT MITER CORNERS BOTTOM OF BASE SHALL BE SEALED TO FLOOR WITH CLEAR SEALANT AS REQUIRED BY BOARD OF HEALTH	CLASS I, ASTM E-648; CLASS B ASTM E-84	TABITHA MYERS, 303.437.6556
SEALED CONCRETE							
SC1							
SHEET FLOORING							
SF1	TARKETT	IQ GRANIT 234	WARM LIGHT GREY	6.5' x 82' NOMINAL	6" H INTEGRAL COVE BASE; HEAT-WELD SEAMS, COORDINATING WELDING ROD	CLASS I, RADIANT PANEL, ASTM E-648	SHAWN SUMMEY, 469.599.0803
SF2	TARKETT	IQ GRANIT 370	AQUA	6.5' x 82' NOMINAL	6" H INTEGRAL COVE BASE; HEAT-WELD SEAMS, COORDINATING WELDING ROD	CLASS I, RADIANT PANEL, ASTM E-648	SHAWN SUMMEY, 469.599.0803
SHOWER CURTAIN							
SHC1	STANDARD TEXTILE	CALLISTO	CM006605 FRESH	72" W; REPEAT 10" V, 18 1/2" H		NFP 701, CALIFORNIA TITLE 19	KRISTIN HAIN, 336.847.2365
SOLID SURFACE MATERIAL							
SSM1	HI-MACS/ LX HAUSYS	9228 ALPINE WHITE	COUNTERTOPS, UNO; WINDOW STOOLS	1/2" THICK		CLASS A; ASTM E-84/ UL 723, NFPA 101	KELLY DENDY, 832.263.5819
SSM2	WILSONART	9208CS WHITE STONE	TRANSACTION TOPS, UNO	1/2" THICK		CLASS 1 AND CLASS A; ASTM E 84	LISA PORTILLO, 254.721.2374
STAINLESS STEEL BASE							
SSB1	SAS/ STAINLESS ARCHITECTURAL SUPPLY	SB4486 STAINLESS STEEL STRAIGHT BASE WITH FIELD FABRICATED OUTSIDE CORNER	TYPE 304; #4 BRUSHED FINISH	6" H X 8'-0" L; 18 GA			
TILE - PORCELAIN							
TL1	PORTOBELLO AMERICA/ ACME BRICK TILE & STONE	PORTOFINO	SAND	12" X 24" NOM; 8 MM THICK	FLOOR TILE INSTALL: 33% OFFSET; 1/8" GROUT JOINT; EPOXY GROUT		LAUREL PETERS, 817.296.2765
TL1B	PORTOBELLO AMERICA/ ACME BRICK TILE & STONE	PORTOFINO	SAND	12" X 12" MESH MOSAIC - 2"	FLOOR OF SHOWER COMPARMENT ONLY; EPOXY GROUT		LAUREL PETERS, 817.296.2765
TL2	PORTOBELLO AMERICA/ ACME BRICK TILE & STONE	CEMENT BLOCK	WHITE	12" X 24" NOM; 8.5 MM THICK	WALL TILE INSTALL: 33% OFFSET; 3/16" GROUT JOINT; EPOXY GROUT		LAUREL PETERS, 817.296.2765
TL3	ARIZONA TILE	TIVOLI	BIANCO	18" X 36" NOM; 10MM THICK	WALL TILE INSTALL: 33% OFFSET (VERTICAL); 3/16" GROUT JOINT; EPOXY GROUT		MERI-DAWN HYSO, 214.470.4178
TL4	AMERICAN OLEAN/ BPI	DEBONAIRE ESTATE	DE07 ANTIQUE	8" X 48" NOM; 5/16" THICK	FLOOR TILE INSTALL: 33% OFFSET; 3/16" GROUT JOINT; EPOXY GROUT		ABBEY HEATH, 817.805.5684
TRIM							
TR1	SCHLUTER	DILEX	AT SATIN NICKEL ANODIZED ALUMINUM	INSIDE CORNER TRIM	FLOOR TILE TO WALL TILE JOINTS; WALL TILE TO WALL TILE JOINTS (WHERE INDICATED)		CHELSEA ENLOE, 682-338-2069
TR2	SCHLUTER	JOLLY	AT SATIN NICKEL ANODIZED ALUMINUM	TOP CAP AT PORCELAIN TILE	AT WALL BASE & WAINSCOT TILE		CHELSEA ENLOE, 682-338-2069
TR3	SCHLUTER	QUADEC	AT SATIN NICKEL ANODIZED ALUMINUM	OUTSIDE CORNER TRIM	AT WALL TILE		CHELSEA ENLOE, 682-338-2069
TR4	FRY REGLET	MWCL75 MILLWORK CHANNEL "L" ANGLE WITH RETURN KEY	ANODIZED SILVER POWDERCOAT	EDGE TRIM	AT PL1 PANELS		KIM RENGER, 972.523.1373
TR5	FRY REGLET	MWCK75 MILLWORK CORNER KEY	ANODIZED SILVER POWDERCOAT	OUTSIDE CORNER TRIM	AT PL1 PANELS		KIM RENGER, 972.523.1373
TR6	FRY REGLET	MWRIC75 MILLWORK REVEAL INSIDE CORNER	ANODIZED SILVER POWDERCOAT	INSIDE CORNER TRIM	AT PL1 PANELS		KIM RENGER, 972.523.1373
TR7	FUTURA BY BONNELL	302651 EA	ETCHED SATIN ALUMINUM (ANODIZED)	3/4" X 3/8" (UNEQUAL) ANGLE	AT NURSE STATION TOE KICK		
WALK OFF MAT/ CARPET TILE							
WOM1	PATCRAFT	WALK FORWARD, ACCESS 10533-00500	PASSAGE	24" X 24"	INSTALL: MONOLITHIC	CLASS I, RADIANT PANEL, ASTM E-648	LANCE WROBLEWSKI, 214.886.5252
WALL PROTECTION							
BG1	CS | ACROVYN	BG-10N BUMPER GUARD	949 WHITE	4" W	INSTALL VERTICALLY AS A PAIR ON HEADWALL CENTERED ON PATIENT BED	CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
CG1	CS | ACROVYN	SSM-20AN, 90 DEGREE; SM-20MN 135/ CUSTOM DEGREE SURFACE MOUNT CORNER GUARD	949 WHITE	2" X 60" 90 DEGREE - TYP; 3" x 60" 135/ CUSTOM DEGREE	INSTALL ABOVE SCHEDULED WALL BASE	CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
CG2		STAINLESS STEEL CORNER GUARD			REFERENCE DIETARY DRAWINGS/ PROVIDED BY DIETARY CONSULTANT	REFERENCE DIETARY DRAWINGS/ PROVIDED BY DIETARY CONSULTANT	
CG3	CS | ACROVYN	SSM-20AN, 90 DEGREE; SM-20MN 135/ CUSTOM DEGREE SURFACE MOUNT CORNER GUARD	1246 DEEP WATER	2" X 60" 90 DEGREE - TYP; 3" x 60" 135/ CUSTOM DEGREE	INSTALLED WITH PAINT COLOR PT3	CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
EG1	CS | ACROVYN	SSM-25AN, END WALL GUARD	949 WHITE	2" X 60"	INSTALL ABOVE SCHEDULED WALL BASE	CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
EG2		STAINLESS STEEL EDGE GUARD			REFERENCE DIETARY DRAWINGS/ PROVIDED BY DIETARY CONSULTANT	REFERENCE DIETARY DRAWINGS/ PROVIDED BY DIETARY CONSULTANT	
HR1	CS | ACROVYN	HRB-10CN, HAND RAIL	949 WHITE	6" H - STANDARD 1 1/2" CLEARANCE FROM WALL		CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
HR2	CS | ACROVYN	HRB-10CN, HAND RAIL - WITH EXTENDED QUICK LOCK (24I098108)	949 WHITE	6" H - EXTENDED 2 3/16" CLEARANCE FROM WALL		CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
WP1	CS | ACROVYN	RIGID WALL PROTECTION SHEET	949 WHITE	0.060" THICK, 48"		CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
WP3	CS | ACROVYN	RIGID WALL PROTECTION SHEET	1246 DEEP WATER	0.060" THICK, 48"	INSTALLED WITH PAINT COLOR PT3	CLASS A/ I, ASTM E-84	GABRIEL CAMPOS, 817-948-5673
WINDOW FILM							
WF1	SOLYX	SXGF 0500 CLEAR FROSTED SAFETY FILM, SEMI-PRIVATE, 54"					
WINDOW TREATMENT							
WT1	HUNTER DOUGLAS	2410 SHEERWEAVE, 3% OPENESS	OYSTER/ PEARL GREY			NFP 701-2004 TM#1, CALIFORNIA US TITLE 19	JUSTIN PRATT, 214.499.5513

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

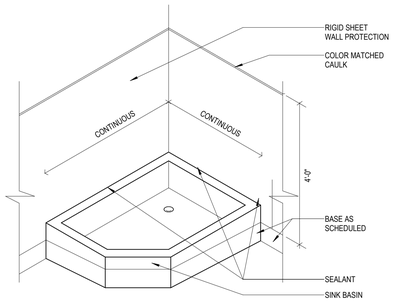
CURRENT:

SHEET TITLE AND NUMBER:

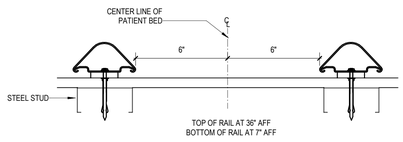
ID1.00

INTERIOR FINISH MATERIALS LEGEND

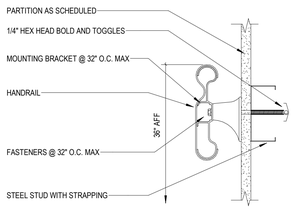
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ONLY. ADJUST ACCORDINGLY



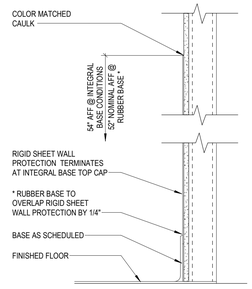
23 IDX.00a OLD - MOP SINK AT JAN CLOSET
3" = 1'-0"



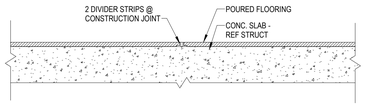
22 IDX.00a OLD - PLAN DETAIL - VERTICAL BUMPER RAIL
3" = 1'-0"



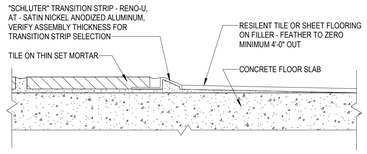
21 IDX.00a OLD - SECTION - HANDRAIL
3" = 1'-0"



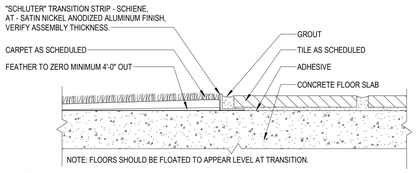
20 IDX.00a OLD - SECTION - RIGID SHEET
1 1/2" = 1'-0"



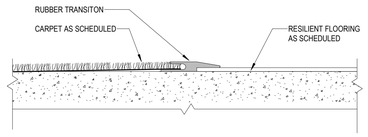
19 IDX.00a OLD - SECTION - POURED RESINOUS TYPICAL CONSTRUCTION JOINT
6" = 1'-0"



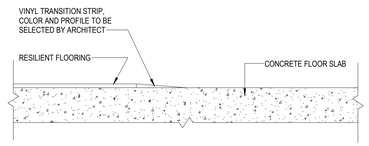
18 IDX.00a OLD - FLOORING TRANSITION - PORCELAIN TO RESILIENT (AT TOILET ROOMS)
6" = 1'-0"



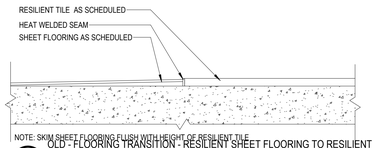
17 IDX.00a OLD - FLOORING TRANSITION - CARPET TO PORCEALIN TILE
6" = 1'-0"



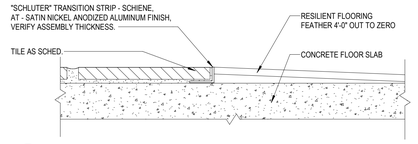
16 IDX.00a OLD - FLOORING TRANSITION - CARPET TO RESILIENT FLOORING
6" = 1'-0"



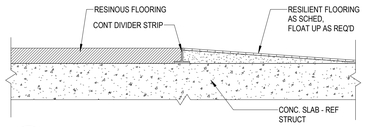
15 IDX.00a OLD - FLOORING TRANSITION - RESILIENT TO CONCRETE
6" = 1'-0"



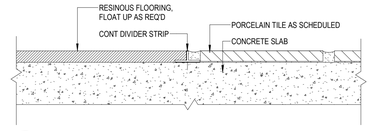
14 IDX.00a OLD - FLOORING TRANSITION - RESILIENT SHEET FLOORING TO RESILIENT TILE
6" = 1'-0"



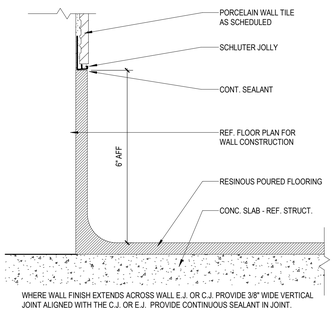
13 IDX.00a FLOORING TRANSITION - PORCELAIN TO RESILIENT (EXCLUDES TLT RMS)
6" = 1'-0"



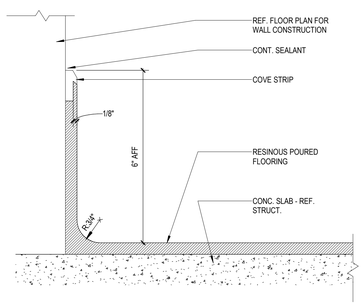
12 IDX.00a OLD - FLOORING TRANSITION - RESINOUS TO RESILIENT
6" = 1'-0"



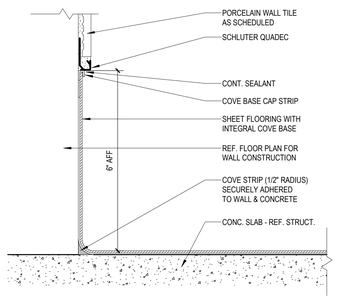
11 IDX.00a OLD - FLOORING TRANSITION - RESINOUS TO PORCELAIN TILE
6" = 1'-0"



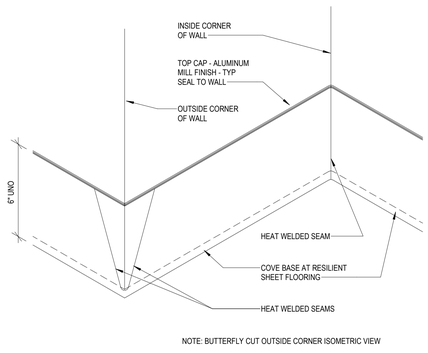
10 IDX.00a OLD - SECTION - POURED RESINOUS INTEGRAL COVE BASE AT WALL TILE
6" = 1'-0"



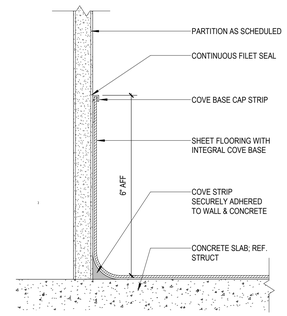
09 IDX.00a OLD - SECTION - POURED RESINOUS TYPICAL INTEGRAL COVE BASE
6" = 1'-0"



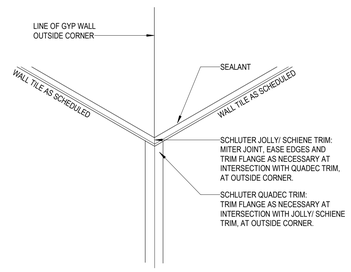
08 IDX.00a OLD - SECTION - INTEGRAL COVE BASE - AT PORCELAIN WALL TILE
6" = 1'-0"



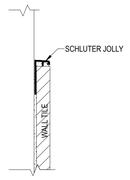
07 IDX.00a OLD - INTEGRAL/ FLASH COVE BASE - RESILIENT SHEET FLOORING
3" = 1'-0"



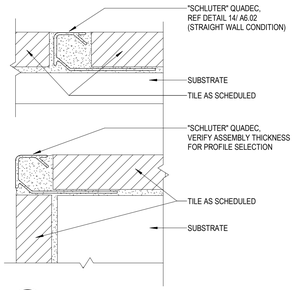
06 IDX.00a OLD - SECTION - TYP INTEGRAL COVE BASE - RESILIENT SHEET FLOORING
6" = 1'-0"



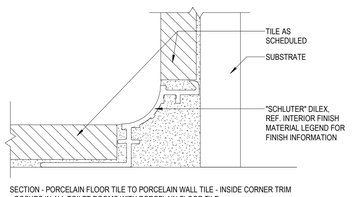
05 IDX.00a WALL TILE - TRIM INTERSECTION AT OUTSIDE CORNER CONDITION
6" = 1'-0"



04 IDX.00a OLD - SECTION - TOP CAP/ EDGE TRIM
6" = 1'-0"



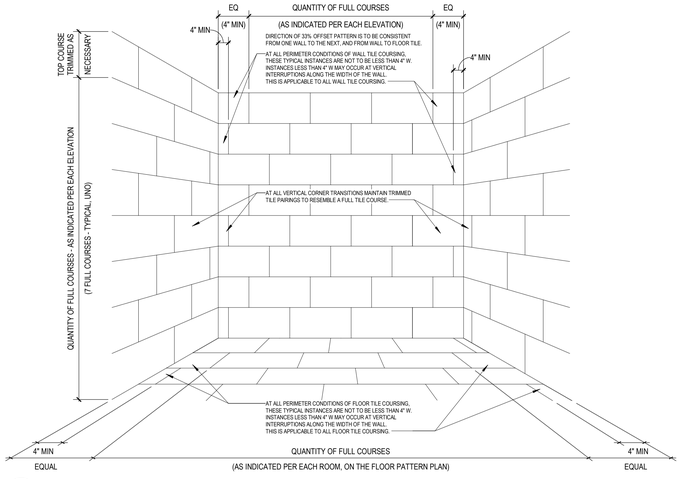
03 IDX.00a OLD - PLAN DETAILS - OUTSIDE CORNER & VERTICAL TRIM
6" = 1'-0"



SECTION - PORCELAIN FLOOR TILE TO PORCELAIN WALL TILE - INSIDE CORNER TRIM
- OCCURS IN ALL TOILET ROOMS WITH PORCELAIN FLOOR TILE.

PLAN DETAIL - WALL TILE TO WALL TILE - INSIDE CORNER TRIM *
- OCCURS ONLY IN TOILET ROOMS WITH FULL HEIGHT WALL TILE ON ALL WALLS, DOES **NOT** OCCUR IN TOILET ROOMS THAT HAVE WAINSCOT/ PARTIAL HEIGHT WALL TILE.

02 IDX.00a OLD - DETAIL - INSIDE CORNER TRIM
6" = 1'-0"



01 IDX.00a OLD - DETAIL - TYPICAL TILE COURSING
NOT TO SCALE

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

IDX.00a

INTERIOR DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 24X36 SHEETS ORIGINAL PLOT SIZE

FINISH PLAN NOTES BY NUMBER

NUMBER	NOTE
01	CUBICLE CURTAIN CC1
02	SHOWER CURTAIN SHC1 - TYPICAL ALL SHOWERS
03	WINDOW TREATMENT WT1
04	WINDOW TREATMENT WT1 - TYPICAL ALL PATIENT ROOMS
05	REF 08/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL
06	REFERENCE SHEET A6.05 FOR ADDITIONAL DETAILS.
07	WINDOW STOOL - SSM1
08	REF 08, 08A & 08B/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL, AND SHEET A6.02 FOR ADDITIONAL INFORMATION
09	OWNER PROVIDED ART MURAL ON THIS WALL. GC TO PROVIDE LEVEL 5 FINISH ON THE WALL TO ACCEPT MURAL WITHOUT BLEMISHES / DEFECTS. WORK WITH OWNER ON SIZE AND EXTENT OF WORK.

LEGEND - FINISH PLANS

ROOM FINISH TAG

C APC1 — CEILING FINISH
W PT1 — WALL FINISH
B RB1 — BASE FINISH
F LVT1 — FLOOR FINISH

PT# — WALL MATERIAL / COLOR INDICATION

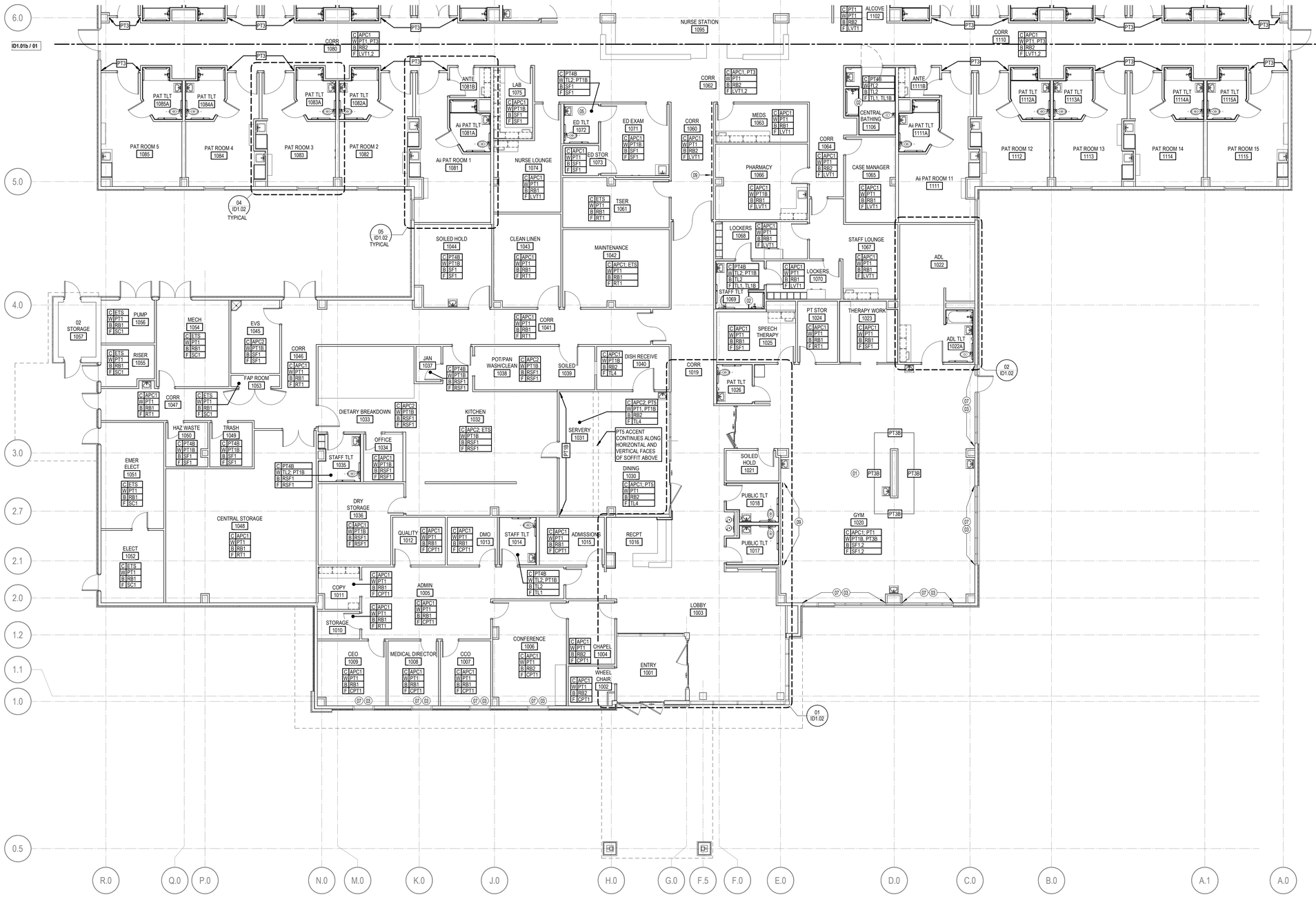
PATTERN / GRAIN DIRECTION

PLAN CALLOUTS

— DETAIL NUMBER
ID## — SHEET NUMBER

GENERAL NOTES - FINISH PLANS

1. ALL FLOOR TRANSITIONS TO BE AT CENTERLINE OF DOOR PANEL, UNO.
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH, AND SOFFIT FINISH, LOCATIONS.
3. REFER TO RCP FOR CEILING MATERIAL LOCATIONS WHERE MULTIPLE TYPES ARE SCHEDULED.
4. REFER TO SHEET ID1.00a FOR FLOOR TRANSITION DETAILS & ID3 SERIES SHEETS FOR FLOOR TRANSITION LOCATIONS.
6. SSM1 SOLID SURFACE MATERIAL WINDOW STOOL AT ALL EXTERIOR WINDOWS, UNO. REF WALL SECTIONS AND SECTION DETAILS.



01 ID1.01a FINISH PLAN - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H - Environments For Health, LLC

exalt health

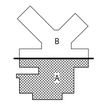
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

ID1.01a

FINISH PLAN- LEVEL 1- AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

FINISH PLAN NOTES BY NUMBER

NUMBER	NOTE
01	CUBICLE CURTAIN CC1
02	SHOWER CURTAIN SHC1 - TYPICAL ALL SHOWERS
03	WINDOW TREATMENT WT1
04	WINDOW TREATMENT WT1 - TYPICAL ALL PATIENT ROOMS
05	REF 08/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL
06	REFERENCE SHEET A6.05 FOR ADDITIONAL DETAILS.
07	WINDOW STOOL - SSM1
08	REF 08, 08A & 08B/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL, AND SHEET A6.02 FOR ADDITIONAL INFORMATION
09	OWNER PROVIDED ART MURAL ON THIS WALL. GC TO PROVIDE LEVEL 5 FINISH ON THE WALL TO ACCEPT MURAL WITHOUT BLEMISHES / DEFECTS. WORK WITH OWNER ON SIZE AND EXTENT OF WORK.

LEGEND - FINISH PLANS

ROOM FINISH TAG

C APC1 — CEILING FINISH
W PT1 — WALL FINISH
B RB1 — BASE FINISH
F LVT1 — FLOOR FINISH

PT1a — WALL MATERIAL / COLOR INDICATION

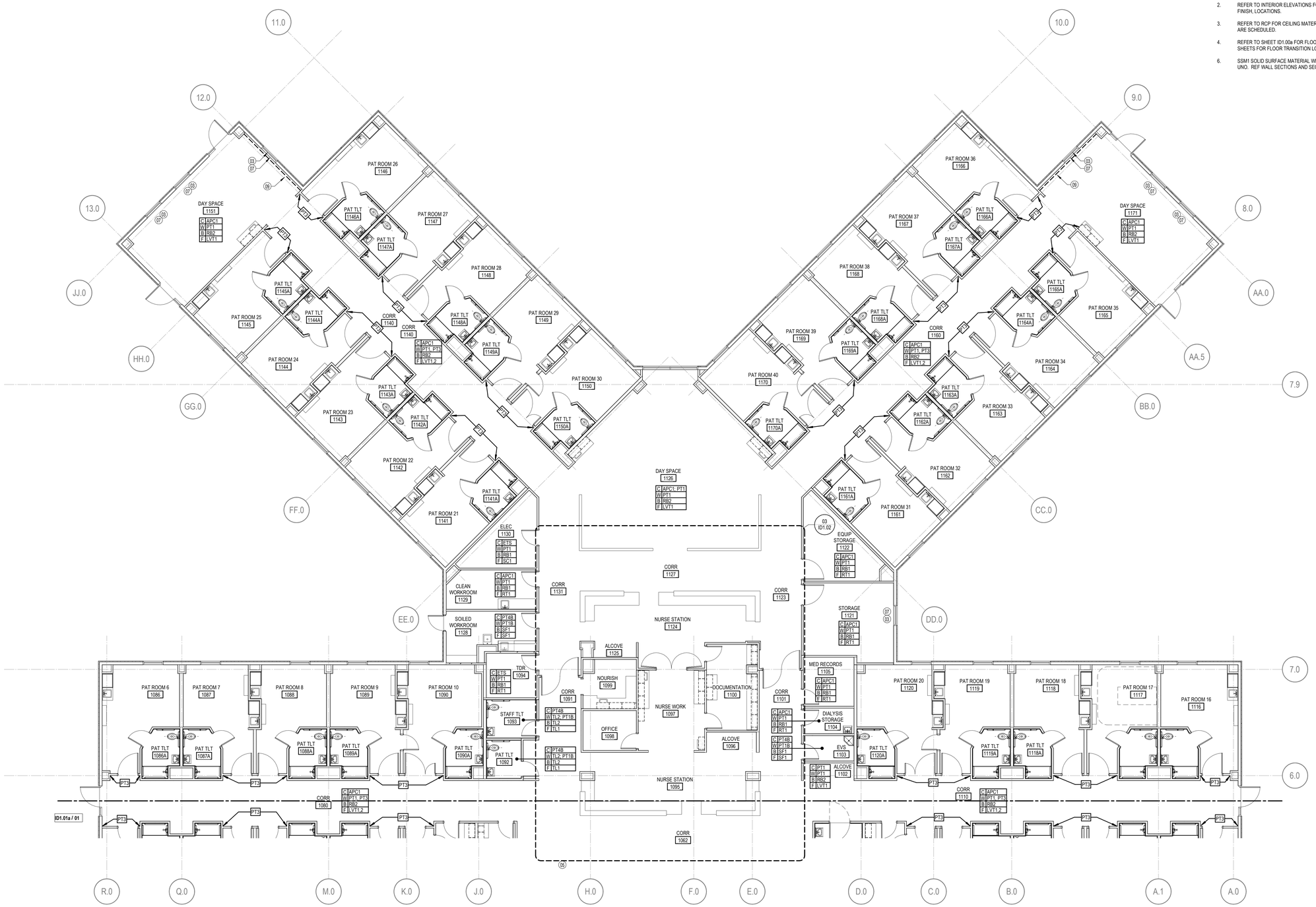
PATTERN / GRAIN DIRECTION

PLAN CALLOUTS

— DETAIL NUMBER
ID# ## — SHEET NUMBER

GENERAL NOTES - FINISH PLANS

1. ALL FLOOR TRANSITIONS TO BE AT CENTERLINE OF DOOR PANEL, UNO.
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH, AND SOFFIT FINISH, LOCATIONS.
3. REFER TO RCP FOR CEILING MATERIAL LOCATIONS WHERE MULTIPLE TYPES ARE SCHEDULED.
4. REFER TO SHEET ID1.00a FOR FLOOR TRANSITION DETAILS & ID3 SERIES SHEETS FOR FLOOR TRANSITION LOCATIONS.
6. SSM1 SOLID SURFACE MATERIAL WINDOW STOOL AT ALL EXTERIOR WINDOWS, UNO. REF WALL SECTIONS AND SECTION DETAILS.



01 ID1.01b FINISH PLAN - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

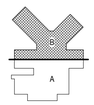
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

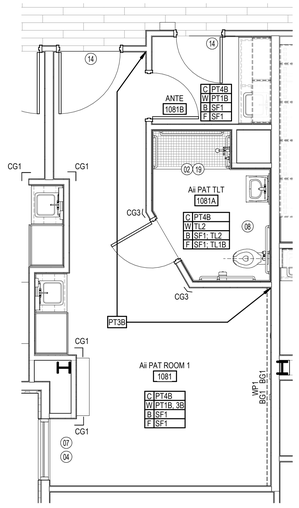
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

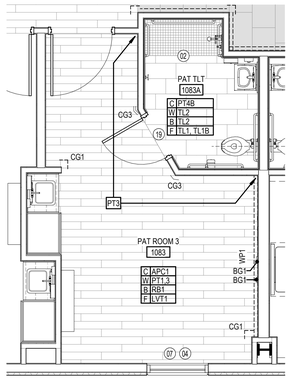
ID1.01b

FINISH PLAN- LEVEL 1- AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SCALE ON ORIGINAL ARCH SHEETS



05 ID1.02 TYP Aii PATIENT - FINISH, PATTERN, WP PLAN (1111 SIM/ OH)
1/4" = 1'-0"



04 ID1.02 TYP. PATIENT ROOM - FINISH, PATTERN, WALL PROTECTION PLAN
1/4" = 1'-0"

LEGEND- FLOOR PATTERN PLAN

FOR CLARITY, FLOORING MATERIAL/ PATTERN IS NOT ALWAYS SHOWN GRAPHICALLY. ORIENTATION OF GRAPHIC PATTERN MAY VARY FROM ORIENTATION SHOWN BELOW.

LVT1 LVT2 SF2

TL1 TL1B TL4

GEN NOTES- FLOOR PATTERN PLAN

1. REFER TO ENLARGED PATIENT ROOM PLANS, SHEET ID1.02, FOR TYPICAL FLOOR PATTERN IN ALL PATIENT ROOMS.
2. ALL FLOORING MATERIAL TRANSITIONS ARE TO BE AT CENTERLINE OF DOOR PANEL, WHEN IN THE CLOSED POSITION, U.N.O.
3. FLOORING TO CONTINUE UNDER MILLWORK TOEKICK, APPLIANCES, EQUIP., ETC.
4. FLOOR FINISH TRANSITIONS OCCUR AT ALL INTERSECTIONS OF DISSIMILAR FINISHES. REFER TO TRANSITION DETAILS FOR APPLICABLE DETAIL BASED ON FINISHES PRESENT ON EACH SIDE OF TRANSITION.

LEGEND - FINISH PLANS

ROOM FINISH TAG

C APC1 — CEILING FINISH
W PT1 — WALL FINISH
B RB1 — BASE FINISH
F LVT1 — FLOOR FINISH

PT# — WALL MATERIAL / COLOR INDICATION

PATTERN / GRAIN DIRECTION

PLAN CALLOUTS

— DETAIL NUMBER
ID# ## — SHEET NUMBER

GENERAL NOTES - FINISH PLANS

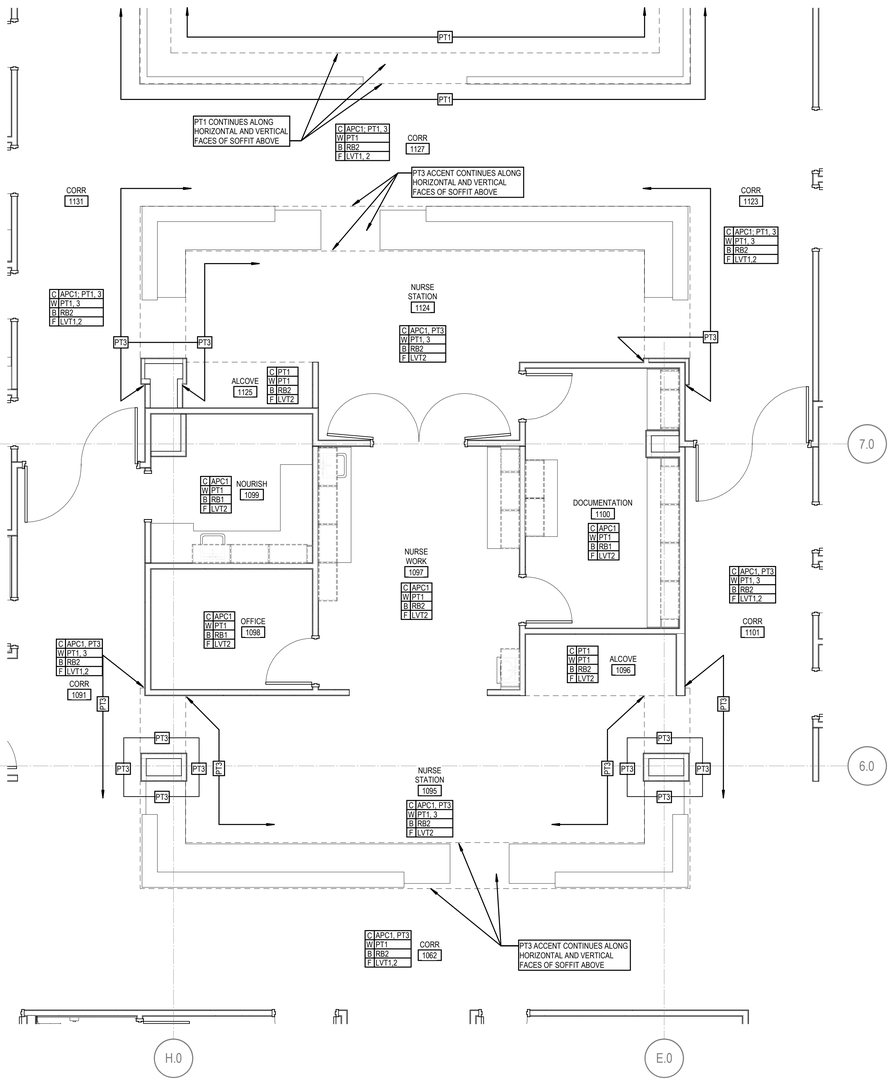
1. ALL FLOOR TRANSITIONS TO BE AT CENTERLINE OF DOOR PANEL, UNO.
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH, AND SOFFIT FINISH, LOCATIONS.
3. REFER TO RCP FOR CEILING MATERIAL LOCATIONS WHERE MULTIPLE TYPES ARE SCHEDULED.
4. REFER TO SHEET ID1.00a FOR FLOOR TRANSITION DETAILS & ID3 SERIES SHEETS FOR FLOOR TRANSITION LOCATIONS.
6. SSM1 SOLID SURFACE MATERIAL WINDOW STOOL AT ALL EXTERIOR WINDOWS, UNO. REF WALL SECTIONS AND SECTION DETAILS.

FLOOR PATTERN PLAN NOTES BY NUMBER

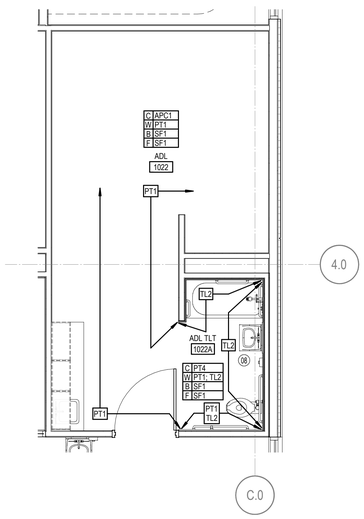
NUMBER	NOTE
11	REF 11/ID1.00a
12	REF 12/ID1.00a
13	REF 13/ID1.00a
14	REF 14/ID1.00a
15	REF 15/ID1.00a
16	REF 16/ID1.00a
17	REF 17/ID1.00a
18	REF 18/ID1.00a
19	REF 19/A6.01

FINISH PLAN NOTES BY NUMBER

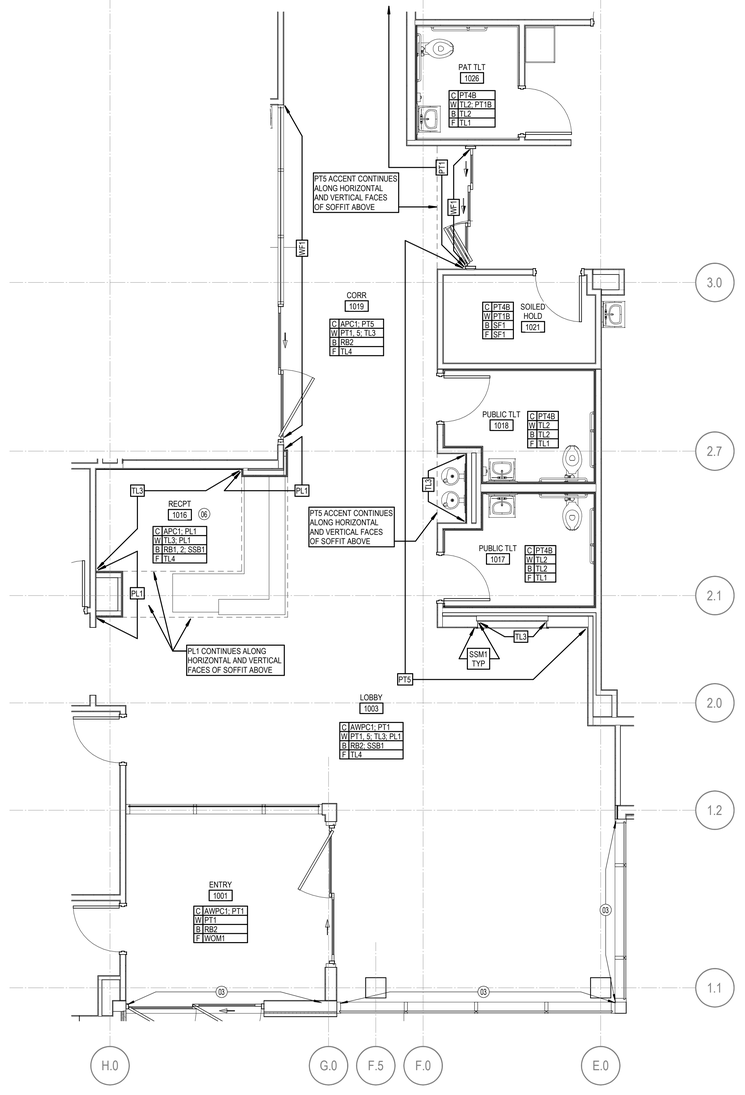
NUMBER	NOTE
01	CUBICLE CURTAIN CC1
02	SHOWER CURTAIN SHC1 - TYPICAL ALL SHOWERS
03	WINDOW TREATMENT WT1
04	WINDOW TREATMENT WT1 - TYPICAL ALL PATIENT ROOMS
05	REF 08/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL
06	REFERENCE SHEET A6.05 FOR ADDITIONAL DETAILS.
07	WINDOW STOOL - SSM1.
08	REF 08, 08A & 08B/ ID1.00a FOR INTEGRAL COVE BASE AT WALL TILE DETAIL, AND SHEET A6.02 FOR ADDITIONAL INFORMATION
09	OWNER PROVIDED ART MURAL ON THIS WALL. GC TO PROVIDE LEVEL 5 FINISH ON THE WALL TO ACCEPT MURAL WITHOUT BLEMISHES / DEFECTS. WORK WITH OWNER ON SIZE AND EXTENT OF WORK.



03 ID1.02 ENLARGED FINISH PLAN - NURSE STATION 1089, 1117
1/4" = 1'-0"



02 ID1.02 ENLARGED FINISH PLAN - ADL 1102
1/4" = 1'-0"



01 ID1.02 ENLARGED FINISH PLAN - LOBBY/ RECEPTION
1/4" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 e4harchitecture.com

exalt health

RYAN

© 2026 E4H+ Environments For Health, LLC

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

ID1.02

ENLARGED INTERIOR FINISH PLANS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

LEGEND - WALL PROTECTION PLANS

WP1 — WALL PROTECTION TYPE (WP, CR, CHR, ETC) REF INTERIOR FINISH MATERIAL LEGEND

LINE REPRESENTS EXTENTS OF WALL PROTECTION

CG1 — CORNER GUARD/ EDGE GUARD TYPE REF INTERIOR FINISH MATERIAL LEGEND

GENERAL NOTES - WALL PROTECTION

1. REFER TO INTERIOR FINISH MATERIALS LEGEND FOR PRODUCT INFORMATION AND SPECIFICATIONS.
2. REFER TO INTERIOR DETAILS FOR WALL PROTECTION MOUNTING INFORMATION.
3. TERMINATE HAND RAIL (HR) 2" BEFORE REACHING A VERTICAL INTERRUPTION, SUCH AS A DOOR FRAME, FEC CABINET, CORNER GUARD OR WALL, ETC, U.N.O.
4. REFERENCE ENLARGED PATIENT ROOM PLANS, SHEET ID1.02, FOR EXTENT OF WALL PROTECTION IN ALL PATIENT ROOMS.



01 / ID2.01a — FINISH PLAN-PARTIAL- LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH / PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

exalt health

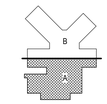
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

ID2.01a

WALL PROTECTION PLAN - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

LEGEND - WALL PROTECTION PLANS

WP1 — WALL PROTECTION TYPE (WP, CR, CHR, ETC) REF INTERIOR FINISH MATERIAL LEGEND
LINE REPRESENTS EXTENTS OF WALL PROTECTION

CG1 — CORNER GUARD/ EDGE GUARD TYPE REF INTERIOR FINISH MATERIAL LEGEND

GENERAL NOTES - WALL PROTECTION

1. REFER TO INTERIOR FINISH MATERIALS LEGEND FOR PRODUCT INFORMATION AND SPECIFICATIONS.
2. REFER TO INTERIOR DETAILS FOR WALL PROTECTION MOUNTING INFORMATION.
3. TERMINATE HAND RAIL (HR) 2" BEFORE REACHING A VERTICAL INTERRUPTION, SUCH AS A DOOR FRAME, FEC CABINET, CORNER GUARD OR WALL, ETC, U.N.O.
4. REFERENCE ENLARGED PATIENT ROOM PLANS, SHEET ID1.02, FOR EXTENT OF WALL PROTECTION IN ALL PATIENT ROOMS.



01 ID2.01b FINISH PLAN-PARTIAL- LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2026 E4H+ Environments For Health, LLC

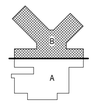
exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

ID2.01b

WALL PROTECTION PLAN - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ONE HALF INCH AT 11" X 17"

FLOOR PATTERN PLAN NOTES BY NUMBER

NUMBER	NOTE
11	REF 11/ID1.00a
12	REF 12/ID1.00a
13	REF 13/ID1.00a
14	REF 14/ID1.00a
15	REF 15/ID1.00a
16	REF 16/ID1.00a
17	REF 17/ID1.00a
18	REF 18/ID1.00a
19	REF 19/A6.01

LEGEND- FLOOR PATTERN PLAN

FOR CLARITY, FLOORING MATERIAL/ PATTERN IS NOT ALWAYS SHOWN GRAPHICALLY. ORIENTATION OF GRAPHIC PATTERN MAY VARY FROM ORIENTATION SHOWN BELOW.

LVT1 | LVT2 | SF2

TL1 | TL1B | TL4

GEN NOTES- FLOOR PATTERN PLAN

1. REFER TO ENLARGED PATIENT ROOM PLANS, SHEET ID1.02, FOR TYPICAL FLOOR PATTERN IN ALL PATIENT ROOMS.
2. ALL FLOORING MATERIAL TRANSITIONS ARE TO BE AT CENTERLINE OF DOOR PANEL, WHEN IN THE CLOSED POSITION, U.N.O.
3. FLOORING TO CONTINUE UNDER MILLWORK TOEKICK, APPLIANCES, EQUIP., ETC.
4. FLOOR FINISH TRANSITIONS OCCUR AT ALL INTERSECTIONS OF DISSIMILAR FINISHES. REFER TO TRANSITION DETAILS FOR APPLICABLE DETAIL BASED ON FINISHES PRESENT ON EACH SIDE OF TRANSITION.



01 ID3.01a FLOOR PATTERN PLAN-PARTIAL- LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH | PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917 888.781.8441 e4harchitecture.com

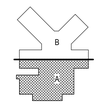
exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

ID3.01a

FLOOR PATTERN PLAN- LEVEL 1- AREA A

© 2026 E4H+ Environments For Health, LLC

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

FLOOR PATTERN PLAN NOTES BY NUMBER

NUMBER	NOTE
11	REF 11/ID1.00a
12	REF 12/ID1.00a
13	REF 13/ID1.00a
14	REF 14/ID1.00a
15	REF 15/ID1.00a
16	REF 16/ID1.00a
17	REF 17/ID1.00a
18	REF 18/ID1.00a
19	REF 19/A6.01

LEGEND- FLOOR PATTERN PLAN

FOR CLARITY, FLOORING MATERIAL/ PATTERN IS NOT ALWAYS SHOWN GRAPHICALLY. ORIENTATION OF GRAPHIC PATTERN MAY VARY FROM ORIENTATION SHOWN BELOW.

LVT1 LVT2 SF2

TL1 TL1B TL4

GEN NOTES- FLOOR PATTERN PLAN

1. REFER TO ENLARGED PATIENT ROOM PLANS, SHEET ID1.02, FOR TYPICAL FLOOR PATTERN IN ALL PATIENT ROOMS.
2. ALL FLOORING MATERIAL TRANSITIONS ARE TO BE AT CENTERLINE OF DOOR PANEL, WHEN IN THE CLOSED POSITION, U.N.O.
3. FLOORING TO CONTINUE UNDER MILLWORK TOEKICK, APPLIANCES, EQUIP., ETC.
4. FLOOR FINISH TRANSITIONS OCCUR AT ALL INTERSECTIONS OF DISSIMILAR FINISHES. REFER TO TRANSITION DETAILS FOR APPLICABLE DETAIL BASED ON FINISHES PRESENT ON EACH SIDE OF TRANSITION.



01 ID3.01b FLOOR PATTERN PLAN - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE

e4h

888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102

© 2026 E4H - Environments For Health, LLC

e4harchitecture.com

exalt health

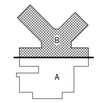
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

JARED NANCE AR103174

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

ID3.01b

FLOOR PATTERN PLAN- LEVEL 1- AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS ONE INCH LONG ON ARCH B SHEETS

GENERAL NOTES

GENERAL

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2023 EDITION.
3. MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL WORKS WITH THE STRUCTURAL DRAWINGS. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS.
6. THE CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT WEIGHTS, FLOOR AND/OR ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. WEIGHTS OF ROOF SUPPORTED EQUIPMENT CONSIDERED IN THE DESIGN ARE INDICATED ON THE DRAWINGS. NOTIFY OWNER'S REPRESENTATIVE IF ACTUAL WEIGHT IS GREATER THAN THE LOAD INDICATED.
8. THICKENED SLABS, DEPRESSED SLABS, TRENCHES, AND UTILITY PENETRATIONS ARE SCHEMATICALLY INDICATED ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE LOCATIONS AND ANY ADDITIONAL REQUIREMENTS WITH THE FINAL ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND WITH THE SPECIFIC REQUIREMENTS OF VENDOR DRAWINGS FOR SPECIALTY EQUIPMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER WHERE DISCREPANCIES EXIST BETWEEN THIS INFORMATION AND THE STRUCTURAL DRAWINGS PRIOR TO STARTING WORK.
9. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
10. THE STRUCTURE WILL BE UNSTABLE UNTIL ALL STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, AND THE FLOOR DECK ATTACHED TO THE STEEL FRAMING AND THE CONCRETE PLACED AND CURED. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED AND MUST REMAIN IN PLACE.
11. SHOULD ANY OF THE INSTRUCTIONS SHOWN ON THE DRAWINGS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
12. ARCHITECTURAL BACKGROUNDS ARE SHOWN FOR REFERENCE ONLY. FINAL STRUCTURAL DOCUMENTS SHOULD BE COORDINATED WITH ARCHITECTURAL CONSTRUCTION DOCUMENTS.
13. SPECIAL INSPECTIONS BY AN INSPECTOR EMPLOYED BY THE OWNER SHALL BE PERFORMED TO FULFILL THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE.

FOUNDATION

1. THE GEOTECHNICAL REPORT PROVIDED BY TERRACON CONSULTANTS, INC. DATED JUNE 21, 2024 WAS USED FOR THE DESIGN OF THE FOUNDATION SYSTEM. SITE PREPARATION, GRADING, AND SOIL REMEDIATION SHALL BE IN ACCORDANCE TO THE RECOMMENDATIONS PRESENTED IN THIS DOCUMENT.

SITE PREPARATION:

A. REMOVE ALL SURFACE VEGETATION, DEBRIS, TOPSOIL, ASPHALT, ROCK FRAGMENTS GREATER THAN 6", AND OTHER DELETERIOUS MATERIALS FROM THE AREAS OF NEW CONSTRUCTION EXTENDING 10 FEET BEYOND THE PROPOSED CONSTRUCTION LIMITS. WHERE TREES ARE TO BE REMOVED, THE FULL ROOT BALL INCLUDING ROOTS FINGER SIZE AND LARGER SHALL BE REMOVED. COMPLETE STRIPPING OF THE TOPSOIL SHALL BE PERFORMED IN THE PROPOSED BUILDING AREA. IT IS ANTICIPATED THAT THE UPPER 2 TO 4 FEET OF SOIL MAY NEED TO BE OVEREXCAVATED TO REMOVE ORGANIC MATERIAL FROM EXISTING FILL. REFERENCE GEOTECHNICAL REPORT FOR MORE INFORMATION.

B. THE EXPOSED SUBGRADE SHALL BE PROOFROLLED TO IDENTIFY SOFT, UNSTABLE AREAS. UNDER THE OBSERVATION AND DIRECTION OF THE GEOTECHNICAL ENGINEER IN THE FIELD, PROOFROLLING SHALL BE PERFORMED WITH A LOADED DUMP TRUCK OR SCRAPER EXECUTING OVERLAPPING PASSES IN MUTUALLY PERPENDICULAR DIRECTIONS. ALL SOFT SUBGRADE AREAS SHALL BE REMOVED AND REPLACED WITH AN APPROVED STRUCTURAL FILL.

C. PRIOR TO PLACEMENT OF STRUCTURAL BACKFILL, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 10 INCHES AND MOISTURE CONDITIONED AS NECESSARY. ALL BACKFILL REQUIRED TO REACH THE DESIGN SUBGRADE ELEVATION SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. BACKFILL UNDER BUILDING SHALL CONSIST OF SP, SP-SM, OR SP-SC (FINES CONTENT < 12%). IF ONSITE SOILS ARE TO BE USED AS STRUCTURAL FILL, THEY MUST ADDITIONALLY BE FREE OF DELETERIOUS MATERIAL, ORGANICS, AND ROOTS AND MUST NOT BE PLASTIC. ALL FILL MATERIALS SHALL BE EXAMINED, TESTED, AND APPROVED BY THE GEOTECHNICAL ENGINEER IN THE FIELD PRIOR TO THEIR USE.

D. STRUCTURAL BACKFILL SHALL BE PLACED IN LOOSE HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES AND COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM MODIFIED DRY DENSITY PER ASTM D1557. BACKFILL AND COMPACTION SHALL BE PERFORMED UNDER THE DIRECTION OF AND TESTED BY THE GEOTECHNICAL ENGINEER IN THE FIELD.

2. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS THAT VARY FROM THOSE ASSUMED FOR DESIGN.
3. FOUNDATIONS SHALL CONSIST OF SHALLOW SPREAD FOOTINGS BEARING ON SOIL CAPABLE OF SUPPORTING 3,000 PSF. CONTRACTOR SHALL VERIFY BY AN INDEPENDENT TESTING LABORATORY THAT THE ASSUMED BEARING CAPACITY IS OBTAINED.
4. ALL SOILS SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION. FILL SHALL NOT BE PLACED ON A FROZEN SUBGRADE.

CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UTILIZING TYPE I CEMENT UNLESS NOTED OTHERWISE.
3. CONCRETE FOR FOOTINGS MAY HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. WATER/CEMENT RATIO, FLY ASH CONTENT AND MAXIMUM SLUMPS ARE SPECIFIED IN SECTION 033100 OF THE PROJECT SPECIFICATIONS. SUBSTANTIATING DATA FOR CONCRETE MIX DESIGN ARE ALSO DESCRIBED IN THIS SECTION.
5. PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
6. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:

ALL COLUMNS, BEAMS, AND GIRDERS UNLESS OTHERWISE NOTED.	ASTM A992
PLATES, RODS, ANGLES CHANNELS AND BARS UNLESS OTHERWISE NOTED.	ASTM A36
GRADE 50 PLATES, WHERE SPECIFIED.	ASTM A572
HSS SECTIONS GRADE C.	ASTM A500
STRUCTURAL STEEL PIPES TYPE E OR GRADE B.	ASTM A53

2. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE AISC "LRFD SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," 13TH EDITION AND AISC 341 SEISMIC DESIGN MANUAL
3. CONNECTIONS MAY BE WELDED OR BOLTED. BOLTED CONNECTIONS SHALL BE BEARING OR FRICTION TYPE WITH MINIMUM 3/4" DIA. A-325 TENSION CONTROL BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. FIELD WELDING SHALL BE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS).
4. CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION UNLESS NOTED OTHERWISE.
5. CONNECTIONS SHALL BE DESIGNED FOR THE FACTORED REACTIONS INDICATED ON THE DRAWINGS USING THE AISC MANUAL OF STEEL CONSTRUCTION - LOAD AND RESISTANCE FACTOR DESIGN.
6. ANCHOR RODS SHALL BE PROVIDED WITH HEADS AND HAVE THE MINIMUM PROPERTIES OF ASTM F1554, UNLESS NOTED OTHERWISE.
7. WHERE STRUCTURAL STEEL IS PERMANENTLY EXPOSED TO EARTH OR WEATHER, PROVIDE PROTECTION FOR THE STEEL BY CONCRETE ENCASEMENT OR A PROTECTIVE COATING OF BITUMINOUS MASTIC OR SIMILAR.
8. SHEAR CONNECTORS SHALL BE 3/4" DIA. x 4-3/16" HEADED STUDS UNLESS OTHERWISE NOTED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 - GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE A MINIMUM SIDE LAP OF 8".
3. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
4. PROVIDE DOWELS IN FOOTINGS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM STANDARD LAP SPLICE UNLESS OTHERWISE SHOWN.
5. PROVIDE THE FOLLOWING PROTECTIVE COVERING OF REINFORCING BARS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	
ALL REINFORCEMENT SIZES	3" CLEAR
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS	2" CLEAR
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2" CLEAR
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS: #14 AND #18 BARS	1-1/2" CLEAR
#11 BAR AND SMALLER	3/4" CLEAR
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRAL	1-1/2" CLEAR

6. ALL REINFORCING BARS TO BE SPLICED WITH THE FOLLOWING STANDARD LAP LENGTHS:

BAR NO.	BOTTOM BAR LENGTH (INCHES)	TOP BAR * LENGTH (INCHES)
#3	19	25
#4	25	33
#5	31	41
#6	37	48
#7	54	70
#8	62	81
#9	70	91
#10	78	102
#11	85	111

*TOP BAR IS HORIZONTAL REINFORCEMENT IN FLEXURAL MEMBERS SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.

7. REINFORCING BARS MARKED CONTINUOUS TO BE SPLICED WITH THE STANDARD LAP LENGTH.
8. PROVIDE CORNER BARS TO MATCH ALL LONGITUDINAL REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS OF ALL CONCRETE MEMBERS (FOOTINGS, GRADE BEAMS, WALLS, ETC.) UNLESS OTHERWISE DETAILED.

NON-COMPOSITE AND COMPOSITE BEAM NOTES:

1. W18x40 — DENOTES BEAM OR GIRDER SIZE.
2. 28k — DENOTES FACTORED BEAM OR GIRDER END REACTION FOR CONNECTION DESIGN. MINIMUM CONNECTION SHALL CONSIST OF TWO ROWS OF BOLTS. WHERE NO VALUE IS SHOWN, REACTION IS LESS THAN OR EQUAL TO 20 KIPS FACTORED.
3. [23] — DENOTES REQUIRED NUMBER OF SHEAR CONNECTORS FOR COMPOSITE BEAM OR GIRDER. WHEN MORE THAN ONE SUCH NUMBER IS SHOWN FOR A GIRDER, EACH NUMBER DENOTES THE REQUIRED NUMBER OF SHEAR CONNECTORS BETWEEN CONCENTRATED LOAD POINTS. WHEN NUMBER OF SHEAR CONNECTORS IS NOT SHOWN, BEAM SHALL RECEIVE SHEAR CONNECTORS AT 12" c/c.
4. W16x31 — DENOTES COLLECTOR OR DRAG BEAMS, SEE BRACED FRAME DETAILS FOR CONNECTION DESIGN

POST INSTALLED FASTENERS

1. POWER DRIVEN FASTENERS (PDF'S) SHALL CONFORM TO ICC ES REPORT ESR-1903 OR EQUAL
2. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT KBTZ2 CONFORMING TO ICC ES REPORT ESR-4266 OR EQUAL
3. ADHESIVE ANCHORS SHALL BE HILTI HIT HY 200 CONFORMING TO ICC ES REPORT ESR-1917 OR EQUAL

METAL DECK

1. STEEL DECK SHALL CONFORM TO THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE (SDI).
2. METAL DECK SHALL BE FURNISHED IN SHEET LENGTHS SUFFICIENT TO EXTEND OVER FOUR SUPPORTS (3 SPANS) WHEREVER POSSIBLE. THE DECK SUPPLIER SHALL ADJUST THE THICKNESS OR GAGE OF THE DECK AT LOCATIONS WHERE SINGLE OR DOUBLE SPANS ARE PROVIDED. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORTED OVER THREE CONTINUOUS SPANS.

LIGHT GAGE METAL FRAMING

1. ALL COLD-FORMED METAL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, AND GAGE SHOWN ON PLANS. WHERE THIS INFORMATION IS NOT SHOWN, THE DESIGN SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER.
2. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA SHALL DESIGN THE NON-LOAD BEARING, LIGHT GAGE FRAMING INCLUDING THE ANCHORAGE TO THE PRIMARY STRUCTURAL FRAME. THE PROFESSIONAL ENGINEER SHALL PROVIDE SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.
3. ALL MEMBERS ARE DESIGNED IN ACCORDANCE TO AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
4. METAL STUDS SHALL BE FROM A STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) APPROVED SUPPLIER.
5. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
6. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED IN CONFORMANCE TO ASTM A525: EXTERIOR MEMBERS G60, ALL OTHER MEMBERS G40, MIN.
7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS IS NOT PERMITTED.
8. SPLICES IN FRAMING COMPONENTS OTHER THAN THE RUNNER TRACK IS NOT PERMITTED.
9. METAL STUD FRAMING BACKING UP BRICK VENEER SHALL BE DESIGNED TO LIMIT OUT-OF-PLANE DEFLECTION TO 1/600 TIMES THE HEIGHT OF THE WALL. METAL STUD FRAMING BACKING UP FLEXIBLE VENEER (e.g. EIFS) SHALL BE DESIGNED TO LIMIT OUT-OF-PLANE DEFLECTION TO 1/360 TIMES THE HEIGHT OF THE WALL.
10. NON LOAD-BEARING EXTERIOR WALL STUDS SHALL COMPLY WITH THE FOLLOWING:

    NON LOAD-BEARING EXTERIOR WALL STUDS SHALL BE AS REQUIRED BY DESIGN BUT NOT LESS THAN 20 GAGE.

    STUDS SHALL BE SECURED TO CONTINUOUS RUNNER TRACKS UNLESS THE STUD TERMINATES AT A DEFLECTION TRACK.

    INSTALLATION OF EXTERIOR WALL FRAMING SHALL ACCOMMODATE DEFLECTION OF PRIMARY STRUCTURAL FRAMING USING VERTICAL SLIDE CLIPS AND/OR DEFLECTION SLIP TRACKS WHERE NECESSARY. DESIGN FRAMING SYSTEM TO ACCOMMODATE UPWARD AND DOWNWARD MOVEMENT OF PRIMARY BUILDING STRUCTURE OF 1/2".

    DESIGN EXTERIOR WALL STUDS TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS.

DESIGN LOADS

1. LIVE LOADS*

    100 PSF CORRIDORS, FIRST FLOOR
    60 PSF OPERATING ROOMS, LABORATORIES
    40 PSF WARDS
    40 PSF PRIVATE ROOMS
    20 PSF ROOF

    150 PSF MECHANICAL ROOMS

    * LIVE LOADS REDUCED PER SECTION 1607.9 OF THE BUILDING CODE WHERE PERMITTED

2. SNOW LOADS

GROUND SNOW LOAD, p_g	= 6 PSF
SNOW IMPORTANCE FACTOR, I_S	= 1.1
EXPOSURE FACTOR, C_e	= 1.0
THERMAL FACTOR, C_t	= 1.0
FLAT ROOF SNOW LOAD, p_f	= 5 PSF

3. WIND LOADS

BASIC WIND VELOCITY	= 151 mph (3 SEC GUST BASED ON ASCE 7-22)
BUILDING RISK CATEGORY	= III
EXPOSURE CATEGORY	= C
INTERNAL PRESSURE COEFFICIENT	= ± 0.18
COMPONENTS AND CLADDING PRESSURES (EXT. WALL FRAMING)	= 59 PSF ULTIMATE (FIELD) = 73 PSF ULTIMATE (WITHIN 6 FEET OF BUILDING CORNERS)

4. SEISMIC LOADS

BUILDING RISK CATEGORY	= III
SEISMIC IMPORTANCE FACTOR, I_E	= 1.25
SPECTRAL RESPONSE ACCELERATION S_S	= 0.093g
SPECTRAL RESPONSE ACCELERATION S_1	= 0.058g
DESIGN SPECTRAL ACCELERATION S_{DS}	= 0.091g
DESIGN SPECTRAL ACCELERATION S_{DI}	= 0.082g
SOIL SITE CLASSIFICATION	= D
SEISMIC DESIGN CATEGORY	= B
BASIC SEISMIC FORCE RESISTING SYSTEM	= ORDINARY STEEL MOMENT FRAMES
RESPONSE MODIFICATION FACTOR, R	= 3
SEISMIC RESPONSE COEFFICIENT, C_S	= 0.038
DESIGN BASE SHEAR	= 0.038 x BUILDING WEIGHT
ANALYSIS PROCEDURE	= EQUIVALENT LATERAL FORCE PROCEDURE

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3125020

Δ	DATE	DESCRIPTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S1.0

GENERAL NOTES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCHITECTURAL SHEETS

TABLE OF STRUCTURAL SPECIAL INSPECTIONS

SPECIAL INSPECTION BY A SPECIAL INSPECTOR FROM AN ACCREDITED INSPECTION AGENCY, APPROVDE BY THE STRUCTURAL ENGINEER, AND WITH CURRENT MUNICIPAL LICENSES AND CERTIFICATIONS IS REQUIRED FOR THE TYPES OF WORK INDICATED BELOW. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE 2023 FLORIDA BUILDING CODE.

			REQUIRED	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC
A. SOILS (TABLE 1705.6)	1.	VERIFY MATERIAL BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X		X
	2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X		X
	3.	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	X		X
	4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	X	
	5.	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X		X
B. CONCRETE (TABLE 1705.3)	1.	INSPECTION AND PLACEMENT OF REINFORCING STEEL.	X		X
	2.	INSPECTION OF ANCHORS AND DOEWLS CAST IN CONCRETE.	X		X
	3.	INSPECTIONS OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER MAUNFACTURER'S RESEARCH REPORT.	X		X
	4.	VERIFYING USE OF REQUIRED DESIGN MIX.	X		X
	5.	AT THE TIME FRESH CONCRETE I SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	X	
	6.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	X	
	7.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X		X
	8.	INSPECTION OF FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	X		X
			X		
C. STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (TABLE 1705.2.2)	1.	MATERIAL VERIFICATION OF COLD FORMED DECK:	X		X
		A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS.	X		X
		B. MANUFACTURER'S CERTIFIED TEST REPORTS.	X		
	2.	INSPECTION OF WELDING:	X		X
		A. FLOOR AND ROOF DECK WELDS.	X		
	3.	REINFORCING STEEL:	X		
		A. SHEAR REINFORCEMENT.	X	X	
		B. OTHER REINFORCEMENT.	X		X
D. SPRAYED FIRE-RESISTANT MATERIALS	1.	INSPECTION OF SPRAYED FIRE-RESISTANT MATERIALS IN ACCORDANCE WITH SECTION 1705.13 OF THE BUILDING CODE.	X		
E. FIRE-RESISTANT PENETRATIONS AND JOINTS	1.	INSPECTION OF SPRAYED FIRE-RESISTANT PENETRATIONS IN ACCORDANCE WITH SECTION 1705.16 OF THE BUILDING CODE.	X		
F. EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	1.	SPECIAL INSPECTION OF EXTERIOR INSULATION AND FINISH SYSTEMS IN ACCORDANCE WITH SECTION 1705.15, UNLESS INSTALLED OVER MASONRY OR CONCRETE WALLS, OR UNLESS INSTALLED OVER WATER-RESISTIVE BARRIER WITH A MEANS OF DRAINING MOISTURE TO THE EXTERIOR.	X		
G. STRUCTURAL STEEL (PER CHAPTER N OF AISC 360 FOR ALL APPLICABLE QC/QA REQUIREMENTS AND TESTING/INSPECTION FREQUENCIES)	1.	INSPECTION TASKS PRIOR TO WELDING (AISC TABLE N5.4-1):	X		
		A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.		X	
		B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.		X	
		C. MATERIAL IDENTIFICATION (TYPE/GRADE).			X
		D. WELDER IDENTIFICATION SYSTEM.			X
		E. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): i. JOINT PREPARATION. ii. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVELCLEANLINESS (CONDITION OF STEEL SURFACES). iii. CLEALINESS (CONDITION OF STEEL SURFACES). iv. TACKING (TACK WELD QUALITY AND LOCATION). v. BACKING TYPE AND FIT (IF APPLICABLE).			X
		F. CONFIGURATION AND FINISH OF ACCESS HOLES.			X
		G. FIT-UP OF FILLET WELDS: i. DIMENSIONS (ALIGNMENT, GAPS AT ROOT). ii. CLEALINESS (CONDITION OF STEEL SURFACES). iii. TACKING (TACK WELD QUALITY AND LOCATION).			X
	2.	INSPECTION TASKS DURING WELDING (AISC TABLE N5.4-2):	X		
		A. USE OF QUALIFIED WELDS.			X
		B. CONTROL AND HANDLING OF WELDING CONSUMABLES: i. PACKAGING. ii. EXPOSURE CONTROL.			X
		C. NO WELDING OVER CRACKED TACK WELDS.			X
		D. ENVIRONMENTAL CONDITIONS: i. WIND SPEED WITHIN LIMITS. ii. PRECIPITATION AND TEMPERATURE.			X
	2.	INSPECTION TASKS DURING WELDING (AISC TABLE N5.4-2) - CONTINUED:	X		
		E. WPS FOLLOWED: i. SETTINGS ON WELDING EQUIPMENT. ii. TRAVEL SPEED. iii. SELECTED WELDING MATERIALS. iv. SHIELDING GAS TYPE/FLOW RATE. v. PREHEAT APPLIED. vi. INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) vii. PROPER POSITION (F,V,H,OH).			X
		F. WELDING TECHNIQUES: i. INTERPASS AND FINAL CLEANING. ii. EACH PASS WITHIN PROFILE LIMITATIONS. iii. EACH PASS MEETS QUALITY REQUIREMENTS.			X
	3.	INSPECTION TASKS AFTER WELDING (AISC TABLE N5.4-3):	X		
		A. WELDS CLEANED.			X
		B. SIZE, LENGTH, AND LOCATION OF WELDS.		X	
		C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: ii. CRACK PROHOBITION. ii. WELD/BASE METAL FUSION. iii. CRATER CROSS SECTION. iv. WELD PROFILES. v. WELD SIZE. vi. UNDERCUT. vii. POROSITY.		X	
		D. ARC STRIKES.		X	
		E. k-AREA.		X	
		F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).		X	
		G. REPAIR ACTIVIES.		X	
		H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.		X	
	4.	NONDESTRUCTIVE TESTING OF WELDED JOINTS PER PART 5 OF CHAPTER N (100% OF CJP GROOVE WELDS).	X		
	5.	INSPECTION TASKS PRIOR TO BOLTING (AISC TABLE N5.6-1):	X		
		A. MANUFACTURER'S CERTIFICATION AVAILABLE FOR FASTENER MATERIALS.		X	
		B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.			X
		C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, LENGTH, THREADS INCLUDED OR EXCLUDED FROM SHEAR PLANE.			X
		D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.			X
		E. CONNECTING ELEMENTS, INCLUDING FAYING SURFACES AND HOLE PREPARATION, MEET APPLICABLE REQUIREMENTS.			X
		F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.			X
		G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.			X
	6.	INSPECTION TASKS DURING BOLTING (AISC TABLE N5.6-2):	X		
		A. FASTENER ASSEMBLIES OF SUITABLE CONDITION PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED.			X
		B. JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.			X
		C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.			X
		D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD FREE EDGES.			X
	7.	INSPECTION TASKS AFTER BOLTING (AISC TABLE N5.6-3):	X		
		A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.		X	
	8.	OTHER INSPECTIONS:	X		
		A. INSPECTION OF ANCHOR RODS AND OTHER EMBEDS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	X		
		B. INSPECTION OF STEEL FRAME AND JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: i. DETAILS SUCH AS BRACING AND STIFENNING. ii. MEMBER LOCATIONS. iii. PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	X		
		C. PLACEMENT AND INSTALLATION OF STEEL DECK.		X	
		D. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.		X	
	9.	APPROVED FABRICATORS AND ERECTORS:			
		A. CERTIFICATE OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR ALL OFF-SITE FABRICATION OF STRUCTURAL STEEL.	X		
		B. CERTIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR ALL ERECTION OF STRUCTURAL STEEL.	X		
H. CERTIFICATION	1.	FINAL REPORT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.2.4 OF THE BUILDING CODE.	X		

APPROVED INSPECTION AGENCIES

SITE WORK AND BUILDING INSPECTION:

ECS FLORIDA, LLC
2334 CAPITAL CIRCLE NE
TALLAHASSEE, FL 32308
(850) 713-3200

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3129020

Δ	DATE	DESCRIPTION

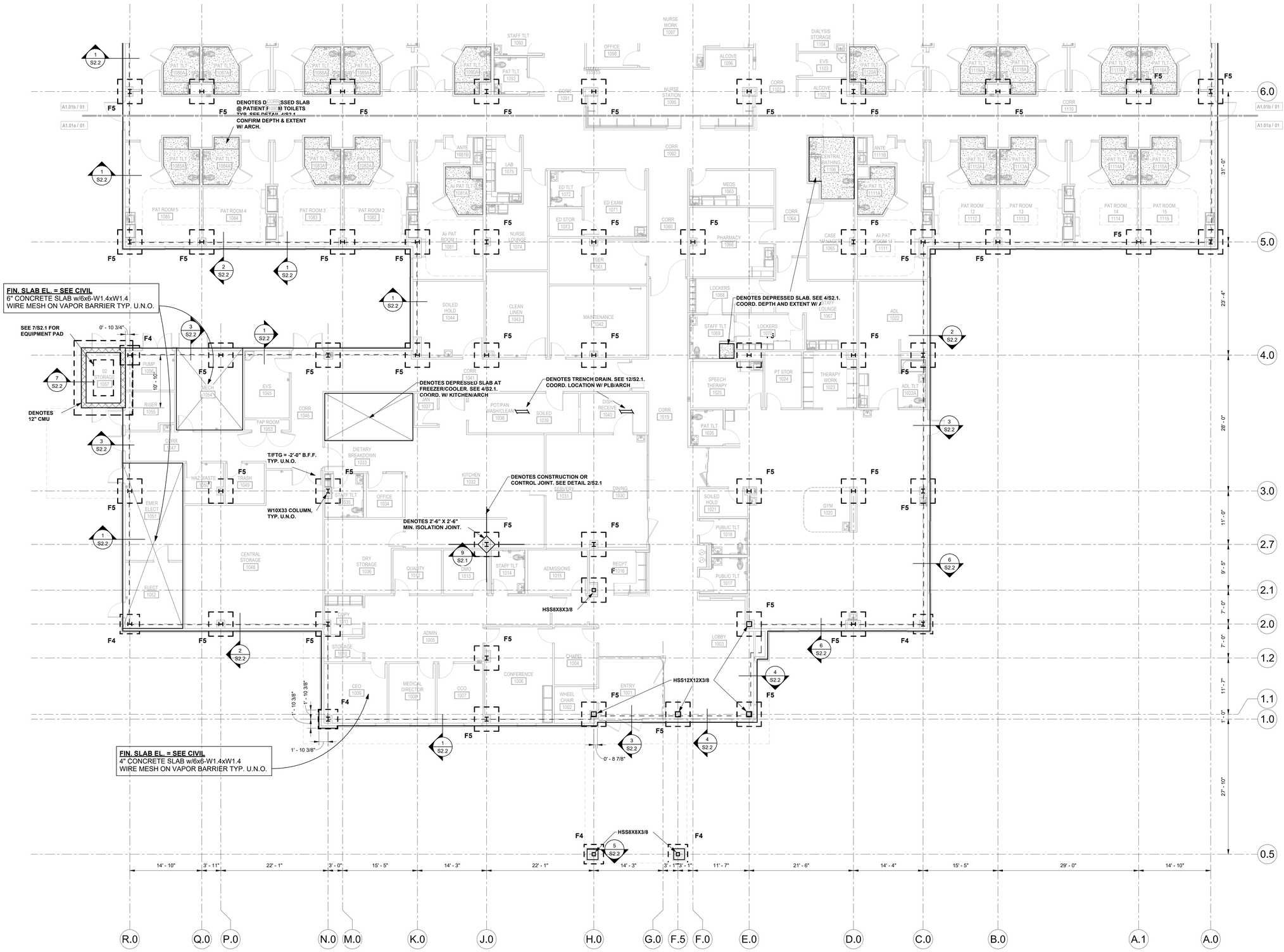
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S1.01

STATEMENT OF SPECIAL INSPECTIONS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL AS SENT



1 FOUNDATION PLAN - PART A
1/8" = 1'-0"

NOTES:
1) SEE SHEET S1.0 FOR GENERAL NOTES.
2) SEE SHEET S2.1 FOR FOOTING & BASEPLATE SCHEDULE.
3) ARCHITECTURAL BACKGROUNDS ARE FOR REFERENCE ONLY. COORDINATE FINAL STRUCTURAL DOCUMENTS w/ FINAL ARCHITECTURAL DOCUMENTS.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

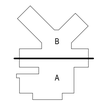
exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:

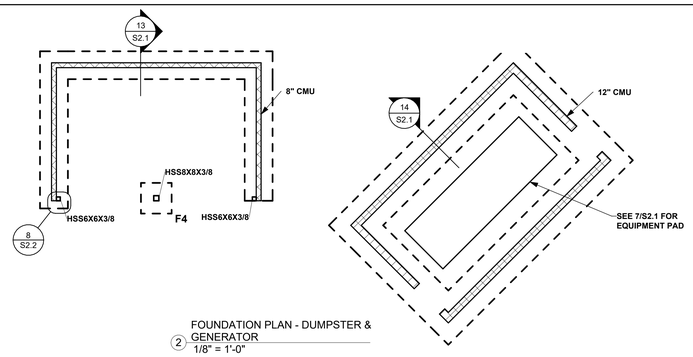


ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

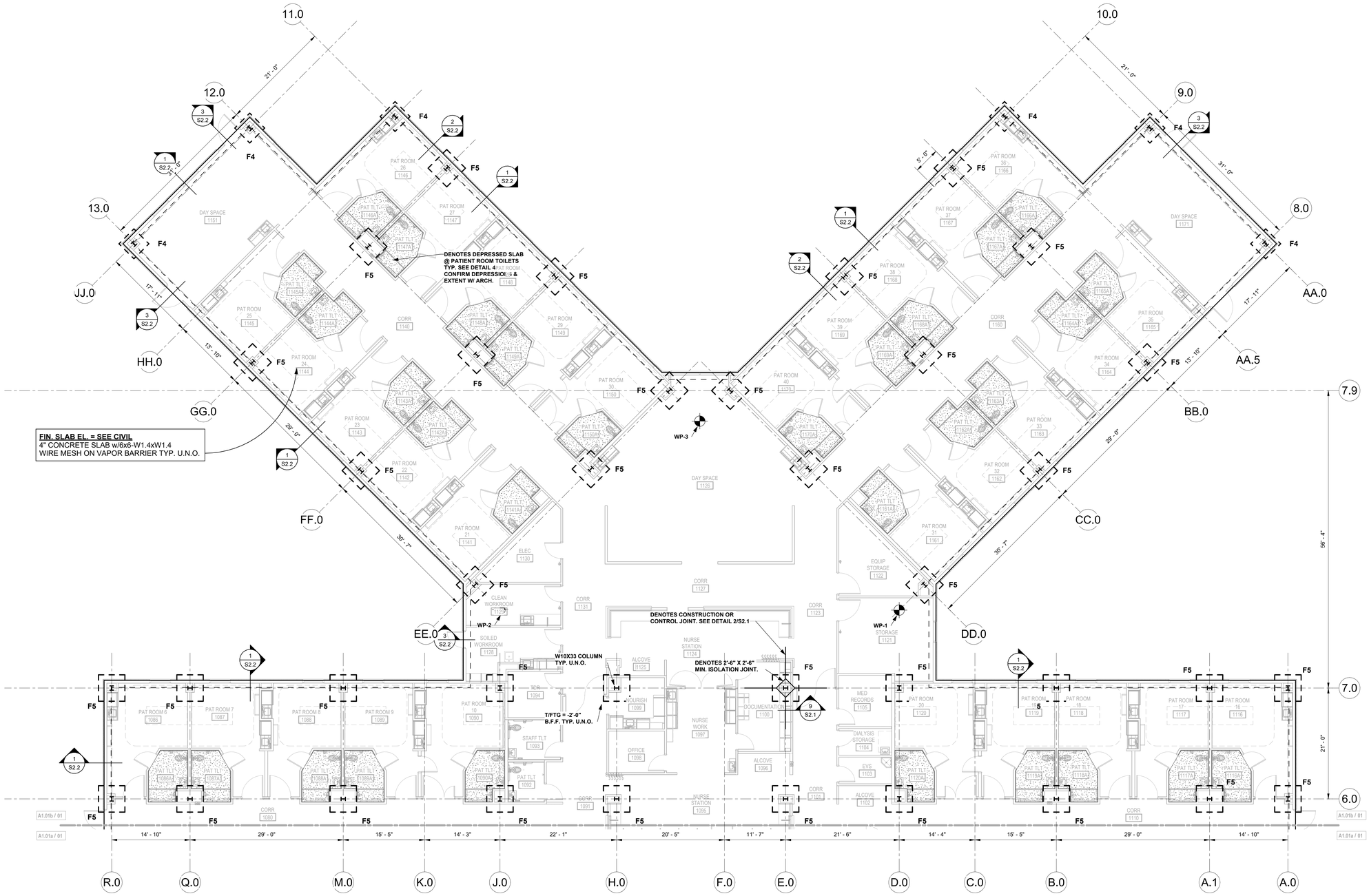
S1.1

FOUNDATION PLAN - PART A



2 FOUNDATION PLAN - DUMPSTER & GENERATOR
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCHITECTURAL PLOT SHEETS



1 FOUNDATION PLAN - PART B
1/8" = 1'-0"

NOTES:
1) SEE SHEET S1.0 FOR GENERAL NOTES.
2) SEE SHEET S2.1 FOR FOOTING & BASEPLATE SCHEDULE.
3) ARCHITECTURAL BACKGROUNDS ARE FOR REFERENCE ONLY. COORDINATE FINAL STRUCTURAL DOCUMENTS w/ FINAL ARCHITECTURAL DOCUMENTS.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

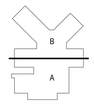
exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:



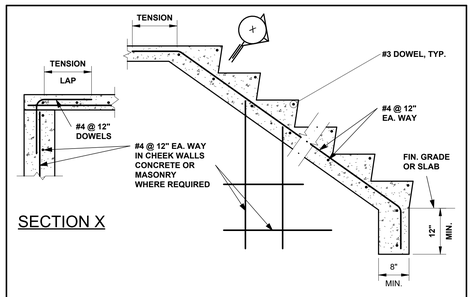
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S1.2

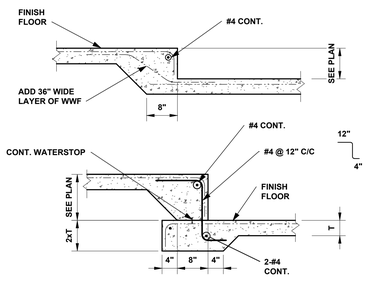
FOUNDATION PLAN - PART B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH D SHEETS



SECTION X

3 TYP. CONCRETE STAIR ON GRADE
3/4" = 1'-0"

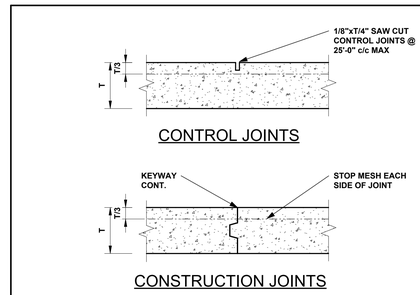


4 TYPICAL DEPRESSED SLAB
3/4" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE	REINF EA. WAY BOTTOM U.N.O.	NOTES
F4	4'-0" x 4'-0" x 2'-0"	5-#6	TOP & BOTTOM
F5	5'-0" x 5'-0" x 2'-0"	6-#5	TOP & BOTTOM

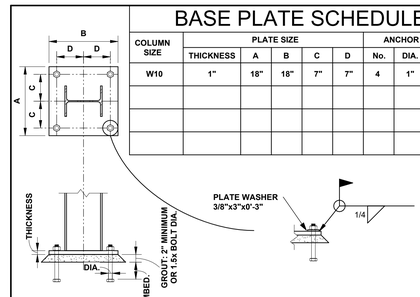
5 FOOTING SCHEDULE
3/4" = 1'-0"



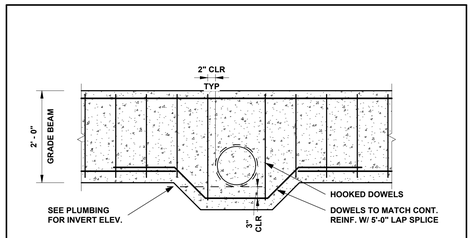
2 TYPICAL SLAB ON GRADE
3/4" = 1'-0"

BASE PLATE SCHEDULE

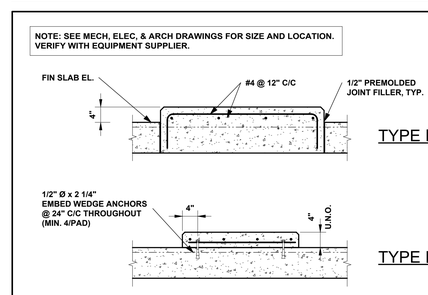
COLUMN SIZE	PLATE SIZE					ANCHOR RODS		
	THICKNESS	A	B	C	D	No.	DIA.	EMBED.
W10	1"	18"	18"	7"	7"	4	1"	12"



6 WIDE FLANGE BASE PLATE SCHEDULE
3/4" = 1'-0"

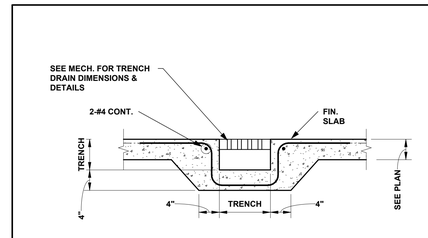


11 SLAB TURNDOWN PENETRATION
3/4" = 1'-0"



7 MISC EQUIPMENT PAD
3/4" = 1'-0"

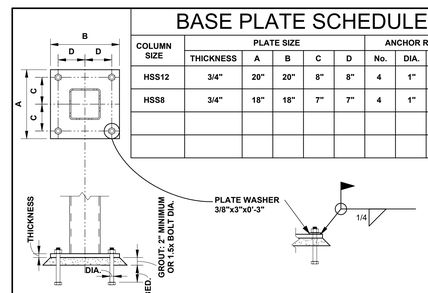
8 EQUIPMENT PAD
3/4" = 1'-0"



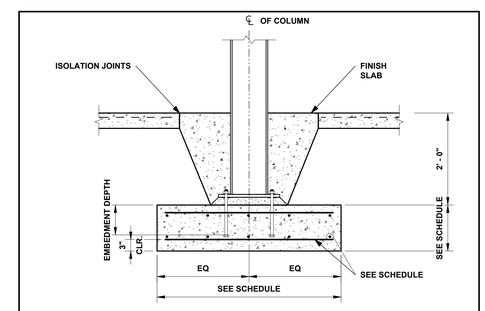
12 TYPICAL TRENCH DRAIN
1" = 1'-0"

BASE PLATE SCHEDULE

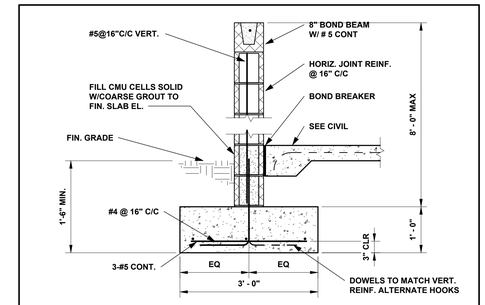
COLUMN SIZE	PLATE SIZE					ANCHOR RODS		
	THICKNESS	A	B	C	D	No.	DIA.	EMBED.
HSS12	3/4"	20"	20"	8"	8"	4	1"	12"
HSS8	3/4"	18"	18"	7"	7"	4	1"	12"



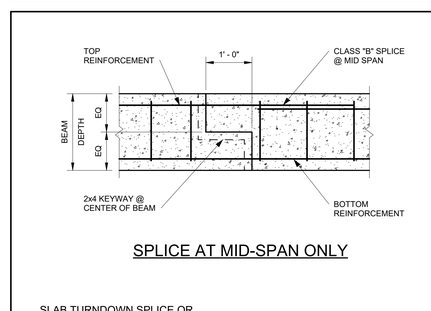
15 HSS BASE PLATE SCHEDULE
3/4" = 1'-0"



9 TYP. INTERIOR COLUMN FOOTING
3/4" = 1'-0"

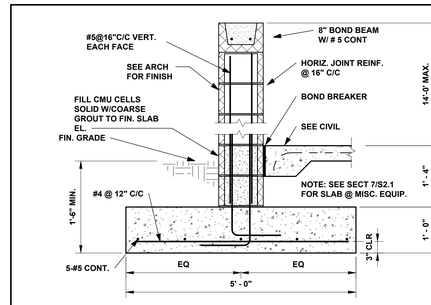


13 DUMPSTER ENCLOSURE
3/4" = 1'-0"



SPLICE AT MID-SPAN ONLY

10 SLAB TURNDOWN SPLICE OR CONSTRUCTION JOINT
3/4" = 1'-0"



14 MECHANICAL COURTYARD
3/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3125020

Δ	DATE	DESCRIPTION

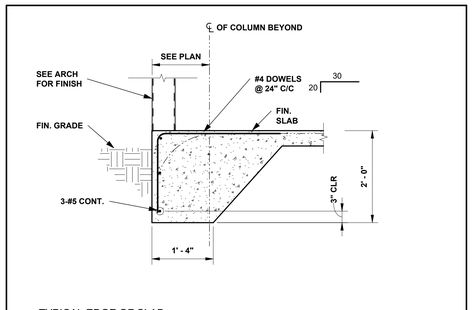
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

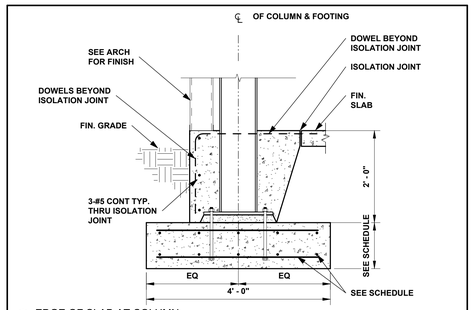
S2.1

TYPICAL FOUNDATION SECTIONS & DETAILS

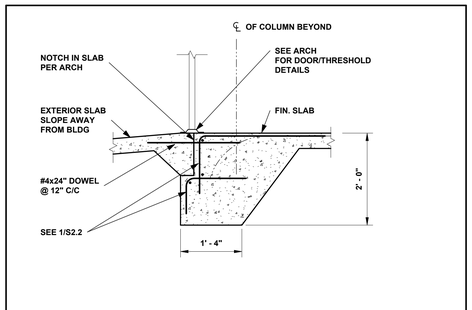
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE



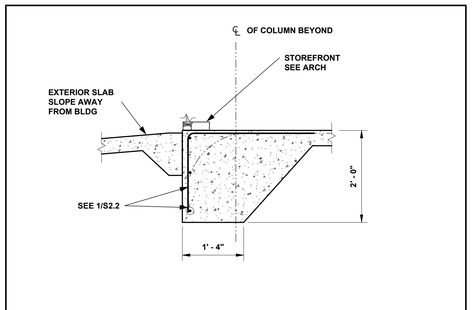
1 TYPICAL EDGE OF SLAB
3/4" = 1'-0"



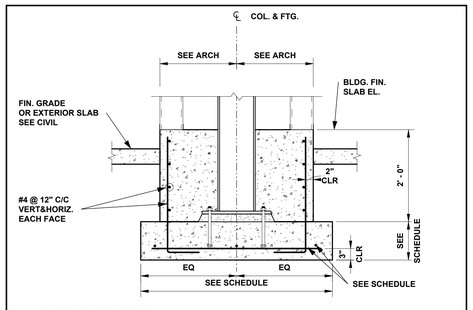
2 EDGE OF SLAB AT COLUMN
3/4" = 1'-0"



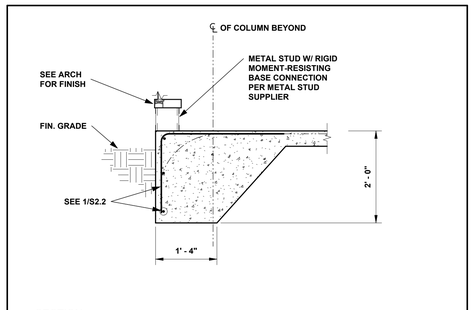
3 EDGE OF SLAB AT DOOR
3/4" = 1'-0"



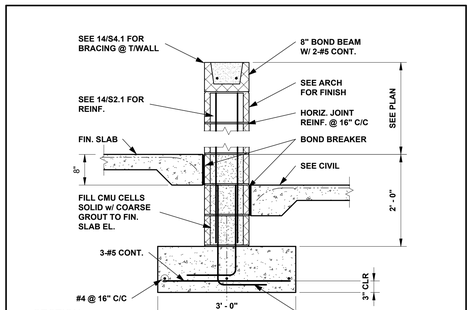
4 EDGE OF SLAB AT STOREFRONT
3/4" = 1'-0"



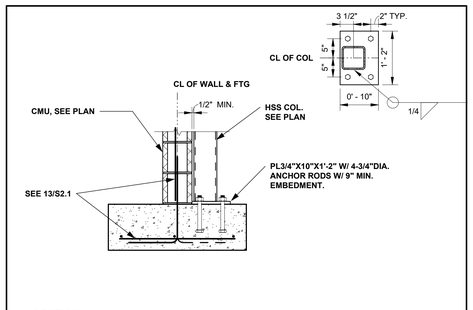
5 EXTERIOR PEDESTAL
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY

2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

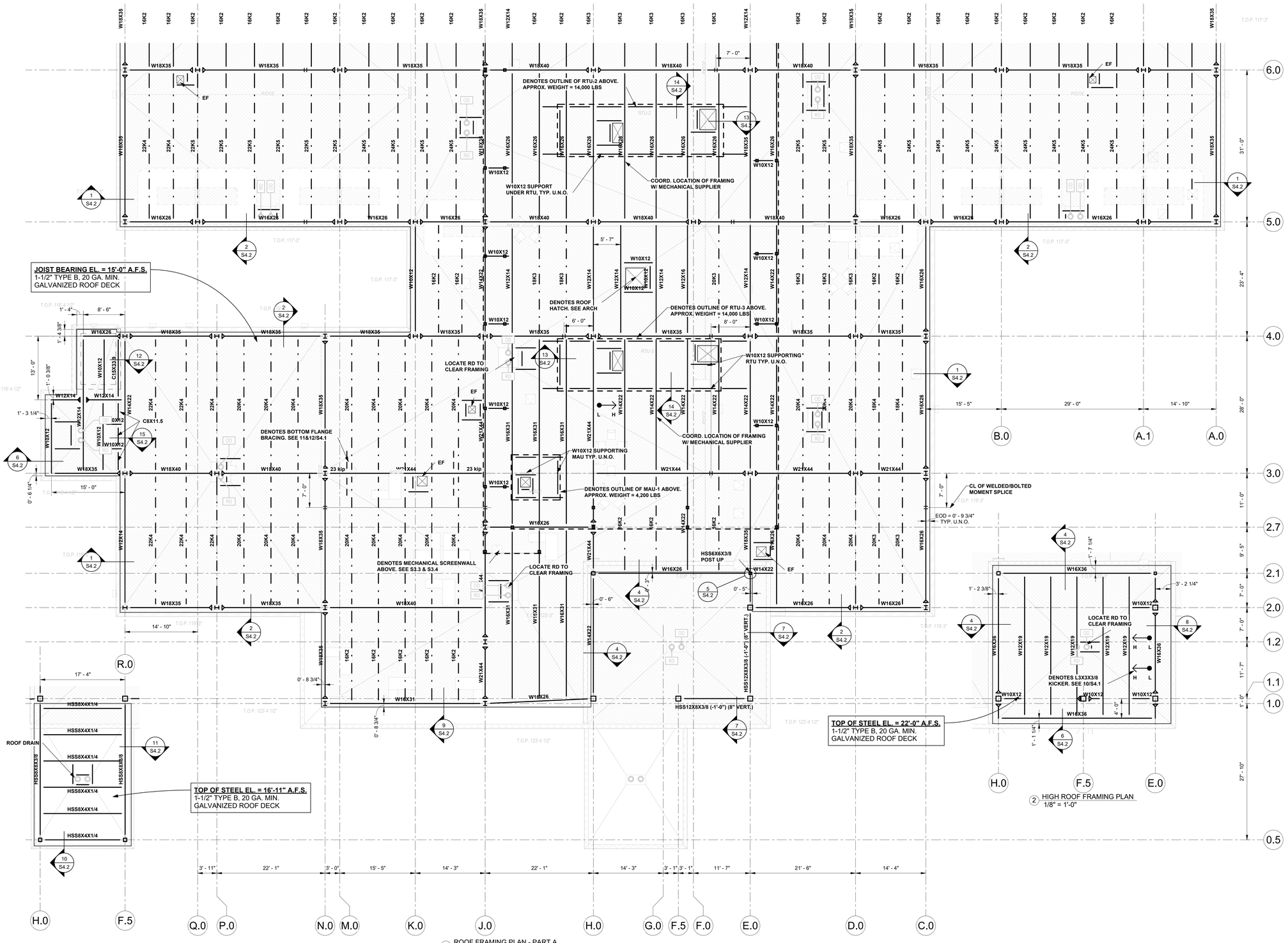
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S2.2

FOUNDATION SECTIONS & DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH SHEETS



3 CANOPY FRAMING PLAN
1/8" = 1'-0"

1 ROOF FRAMING PLAN - PART A
1/8" = 1'-0"

2 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:
1) SEE SHEET S1.0 FOR GENERAL NOTES.
2) ◁ ▷ DENOTES BEAM CONTINUOUS OVER COLUMN, SEE DET. 5&6/S4.1.
3) SEE DET. 4/S4.1 FOR BOLTED/WELDED MOMENT SPLICE.
4) ◀ ▶ DENOTES WELDED MOMENT CONNECTION. SEE DET. 7/S4.1.
5) ıı DENOTES BOLTED/WELDED MOMENT SPLICE. SEE 4/S4.1
6) SEE DET. 2&3/S4.1 FOR ROOF OPENINGS
7) ARCHITECTURAL BACKGROUNDS ARE FOR REFERENCE ONLY. COORDINATE FINAL STRUCTURAL DOCUMENTS w/ FINAL ARCHITECTURAL DOCUMENTS.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

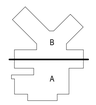
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:



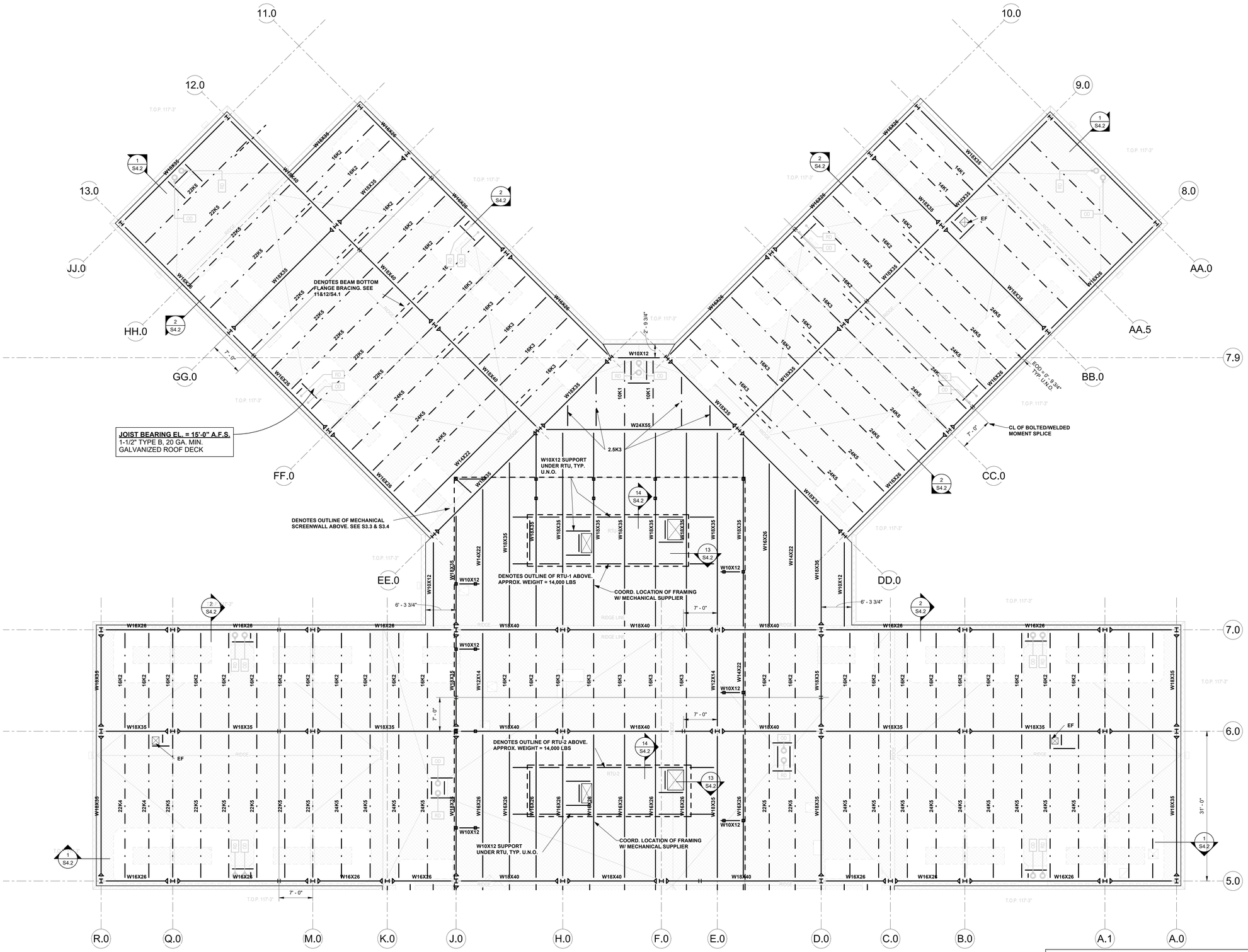
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S3.1

ROOF FRAMING PLAN - PART A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL ARCHITECTURAL SHEETS



1 ROOF FRAMING PLAN - PART B
1/8" = 1'-0"

NOTES:
1) SEE SHEET S1.0 FOR GENERAL NOTES.
2) ◁ ▷ DENOTES BEAM CONTINUOUS OVER COLUMN. SEE DET. 5&6/S4.1.
3) SEE DET. 4/S4.1 FOR BOLTED/WELDED MOMENT SPLICE.
4) ◀ ▶ DENOTES WELDED MOMENT CONNECTION. SEE DET. 7/S4.1.
5) H DENOTES BOLTED/WELDED MOMENT SPLICE. SEE 4/S4.1
6) SEE DET. 2&3/S4.1 FOR ROOF OPENINGS
7) ARCHITECTURAL BACKGROUNDS ARE FOR REFERENCE ONLY. COORDINATE FINAL STRUCTURAL DOCUMENTS w/ FINAL ARCHITECTURAL DOCUMENTS.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

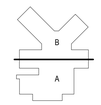
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:



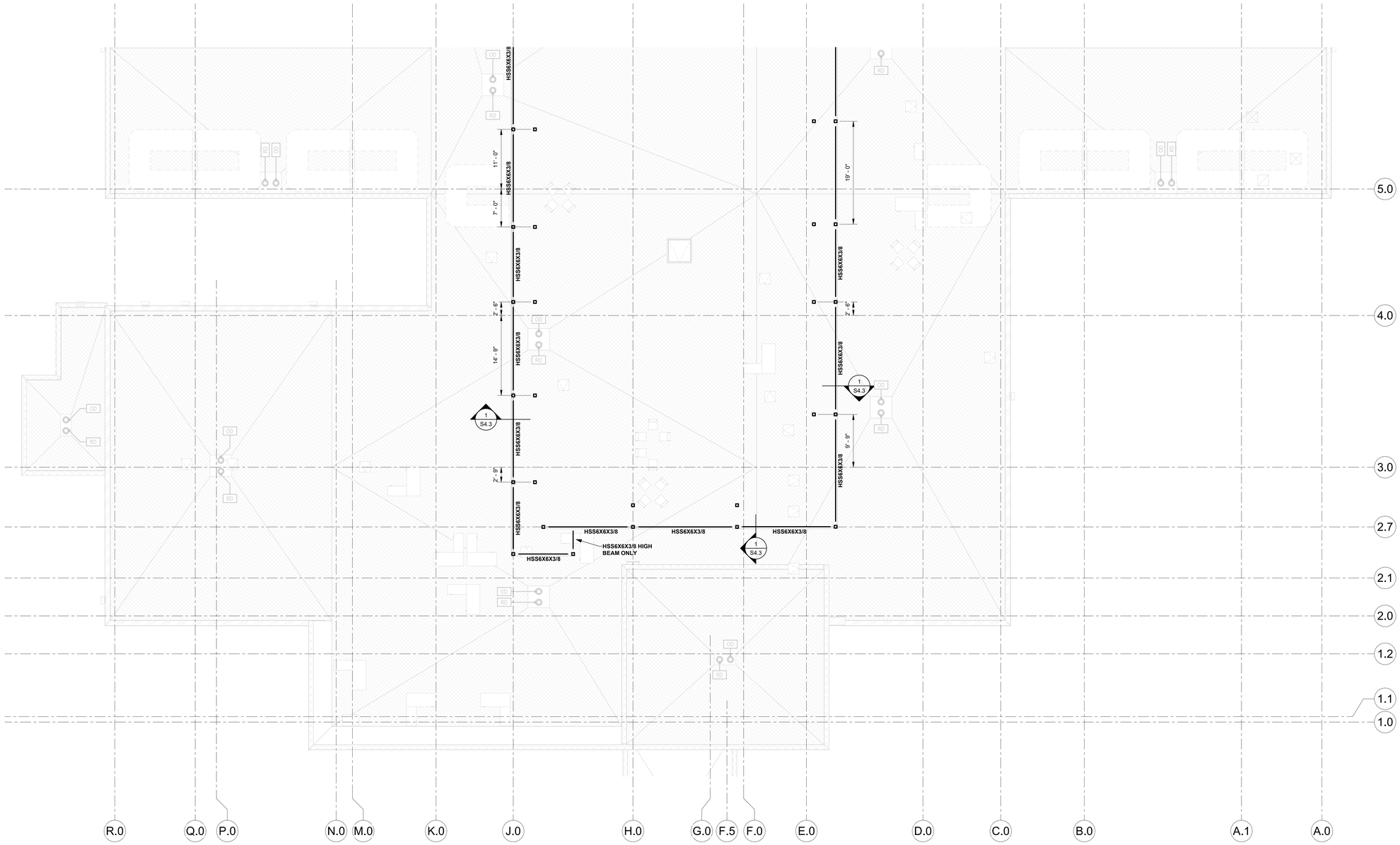
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S3.2

ROOF FRAMING PLAN - PART B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE



1 ROOF SCREENWALL PLAN - PART A
1/8" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

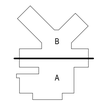
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:



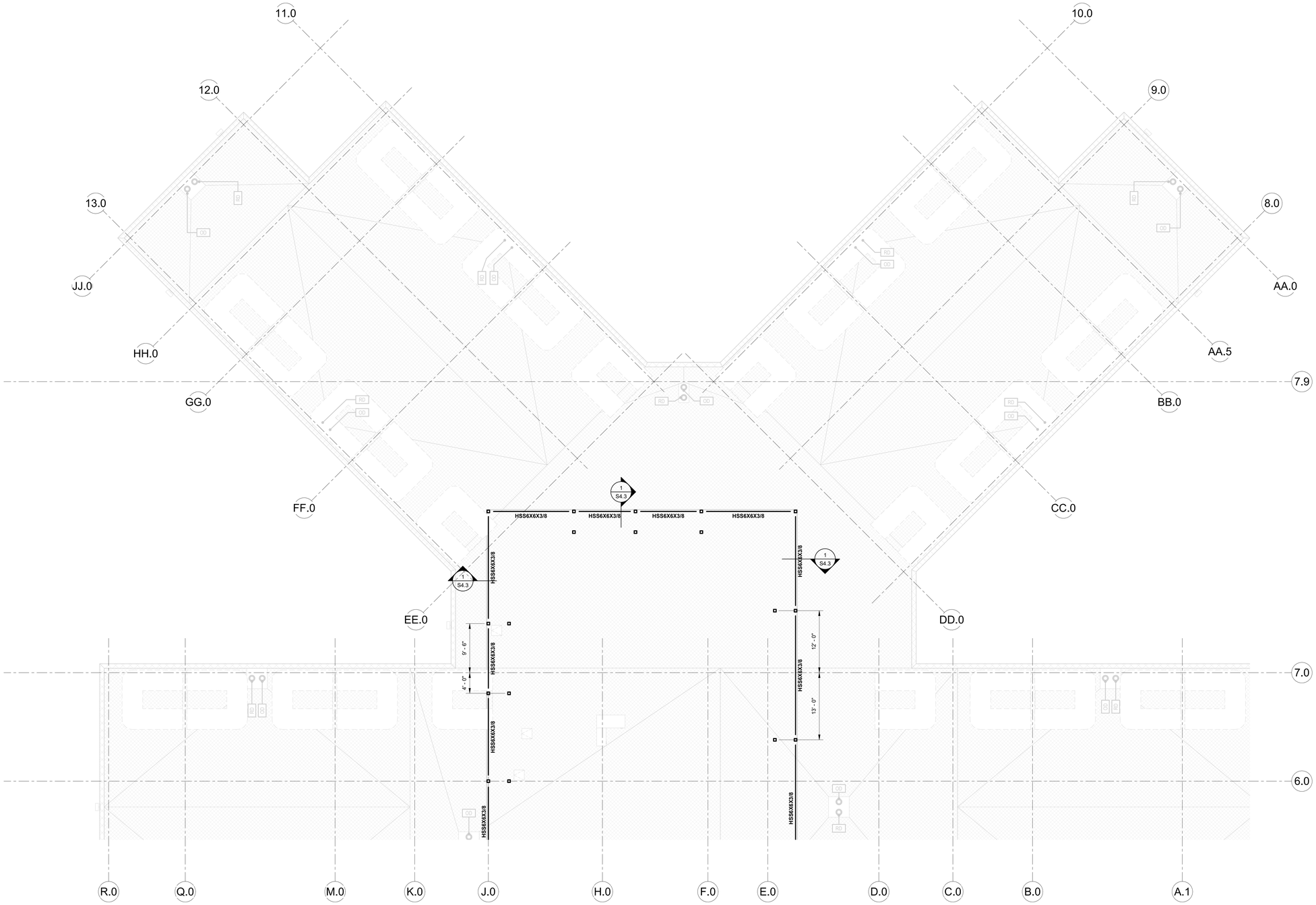
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S3.3

ROOF SCREENWALL PLAN - PART A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH D SHEETS



1 ROOF SCREENWALL PLAN - PART B
1/8" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

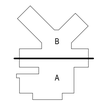
RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

KEY PLAN:



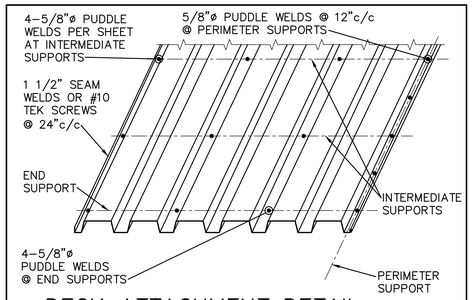
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

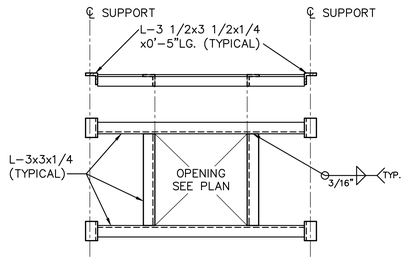
S3.4

ROOF SCREENWALL PLAN - PART B

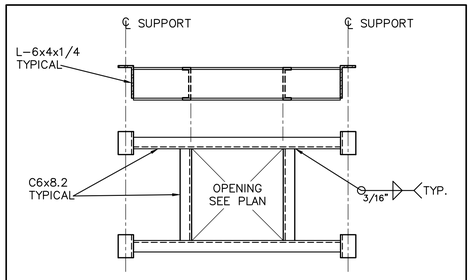
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 100 SHEETS ONE INCH LONG AT 200 SHEETS



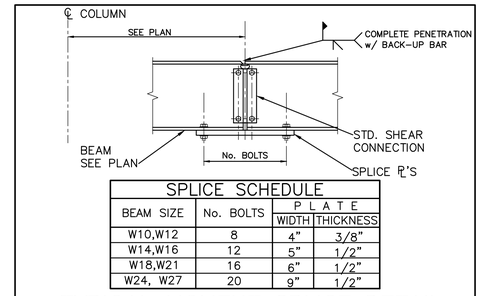
1 DECK ATTACHMENT DETAIL
FOR 1 1/2" DECK



2 TYPICAL ROOF OPENING FRAME
AT EQUIPMENT UP TO 500# MAX



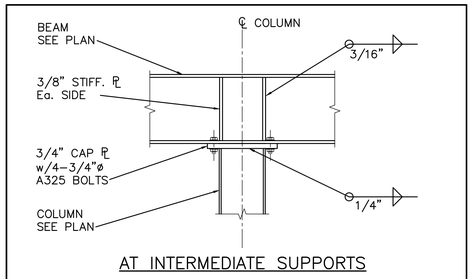
3 TYPICAL ROOF OPENING FRAME
AT EQUIPMENT LESS THAN 3.000#



SPLICE SCHEDULE

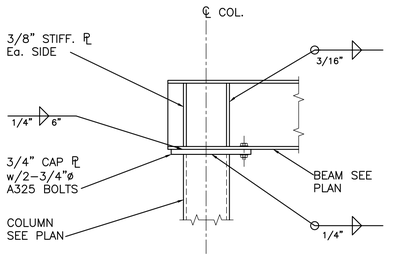
BEAM SIZE	No. BOLTS	PLATE WIDTH	PLATE THICKNESS
W10,W12	8	4"	3/8"
W14,W16	12	5"	1/2"
W18,W21	16	6"	1/2"
W24, W27	20	9"	1/2"

4 TYPICAL MOMENT SPLICE DETAIL

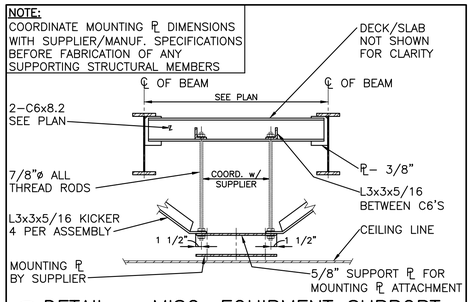


AT INTERMEDIATE SUPPORTS

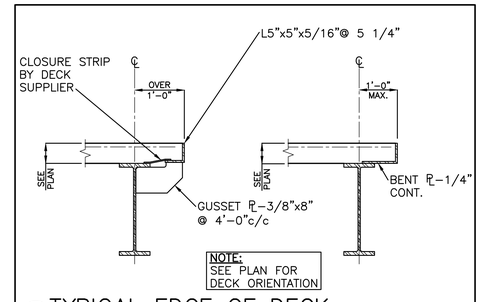
5 TYP. BEAM TO COLUMN CONN.
AT CONTINUOUS BEAMS



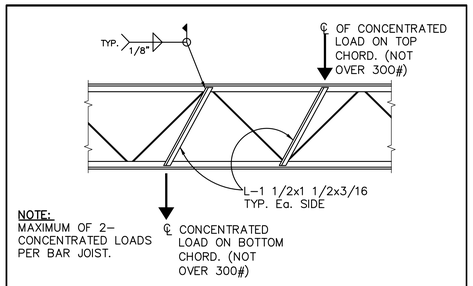
6 TYPICAL BEAM TO COLUMN CONN.
AT CONTINUOUS BEAMS



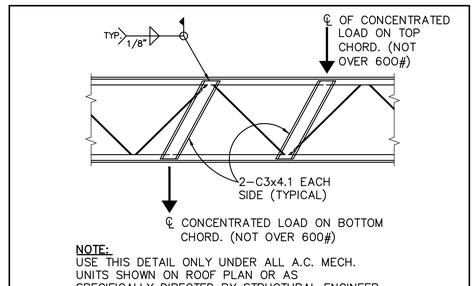
7 DETAIL – MISC. EQUIPMENT SUPPORT



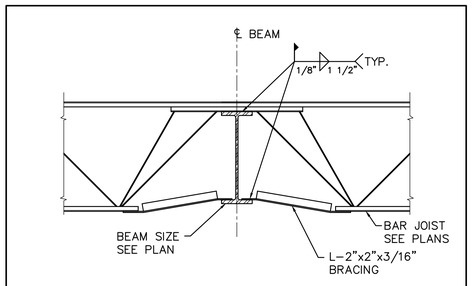
8 TYPICAL EDGE OF DECK



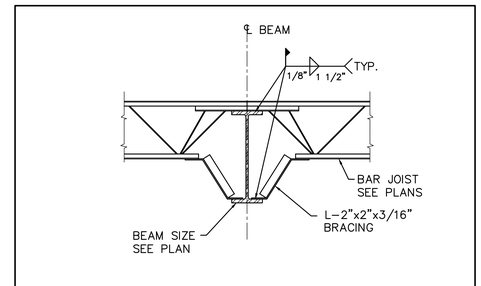
9 TYPICAL JOIST REINFORCEMENT
FOR CONCENTRATED LOADS



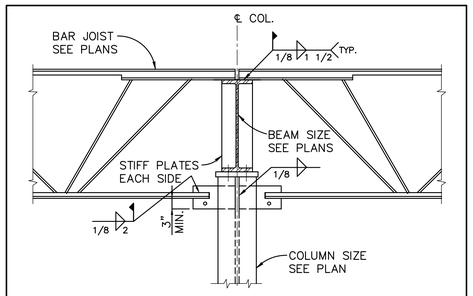
10 TYPICAL JOIST REINFORCEMENT
FOR CONCENTRATED LOADS



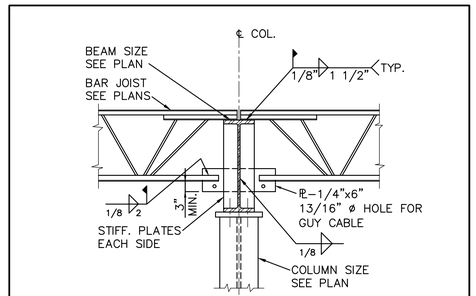
11 TYP. BEAM BOTTOM FLANGE BRACING
SEE PLANS FOR LOCATIONS



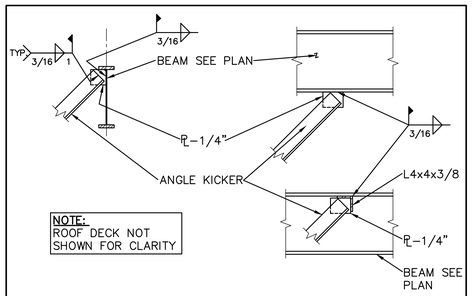
12 TYP. BEAM BOTTOM FLANGE BRACING
SEE PLANS FOR LOCATIONS



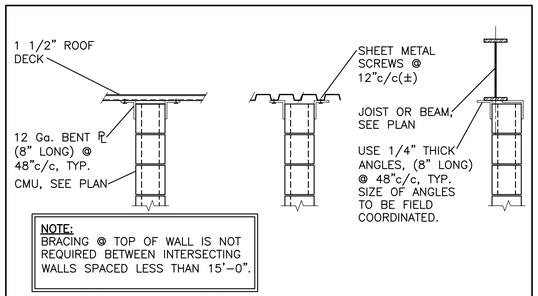
13 TYP. JOIST CONNECTION @ COLUMN
AT ROOF



14 TYP. JOIST CONNECTION @ COLUMN
AT ROOF



10 DETAIL – KICKER ANCHOR DETAILS



15 DETAILS @ BRACING OF FULL HEIGHT NON–LOAD BEARING WALLS

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL
PROJECT: 3125020

Δ	DATE	DESCRIPTION

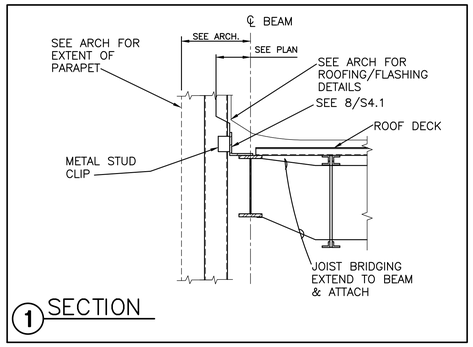
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

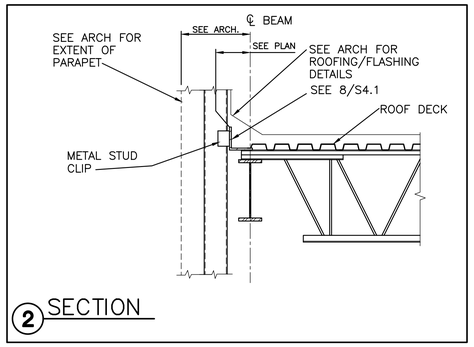
S4.1

TYPICAL FRAMING SECTIONS & DETAILS

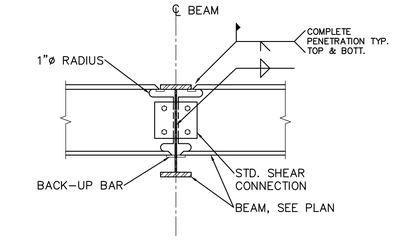
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ONE INCH LONG AT 60 SHEETS



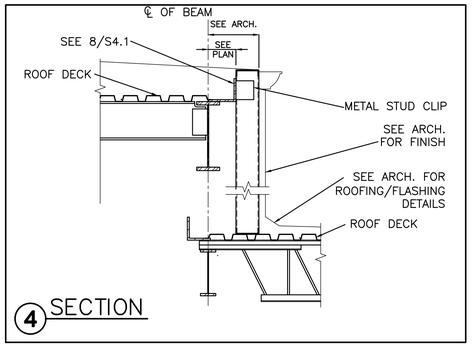
1 SECTION



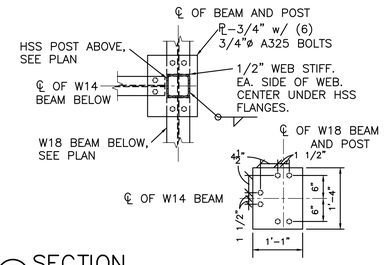
2 SECTION



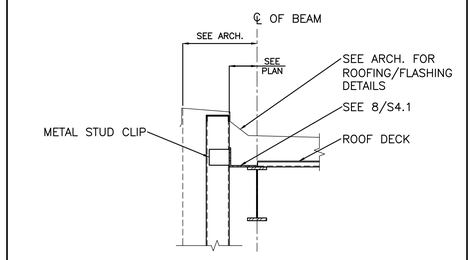
3 MOMENT CONNECTION DETAIL



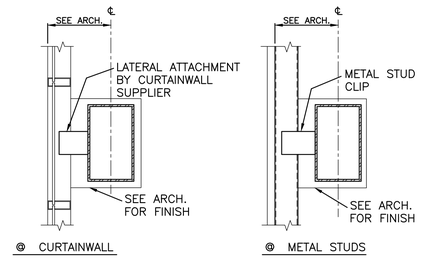
4 SECTION



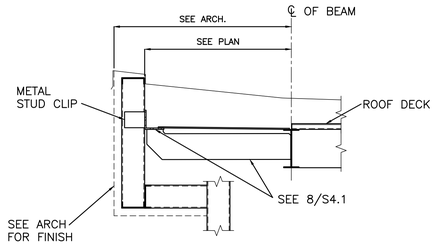
5 SECTION



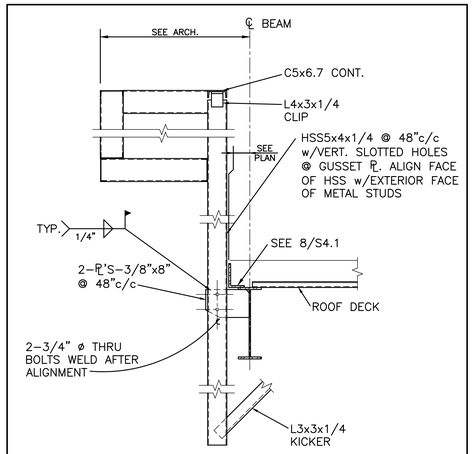
6 SECTION



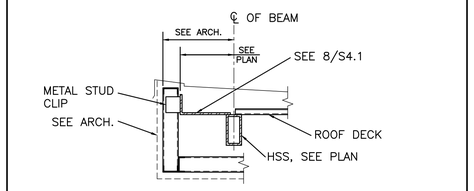
7 SECTION



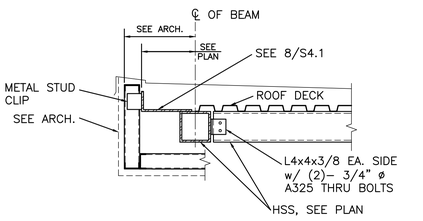
8 SECTION



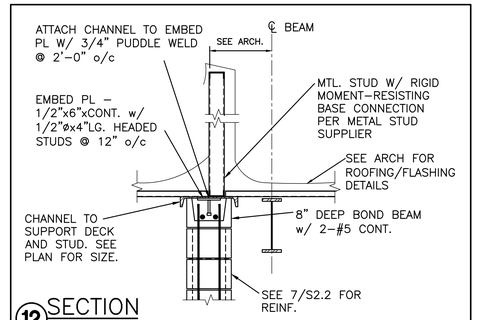
9 SECTION



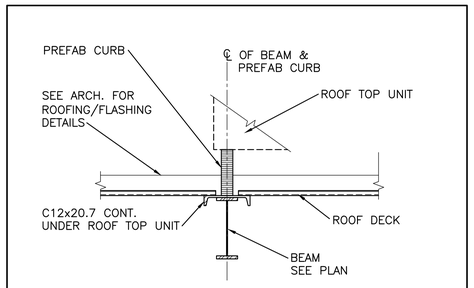
10 SECTION



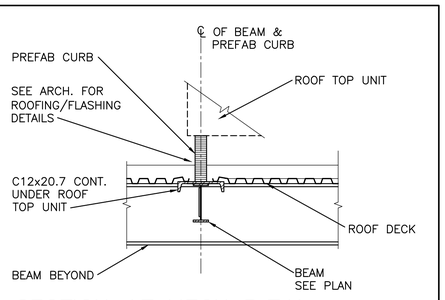
11 SECTION



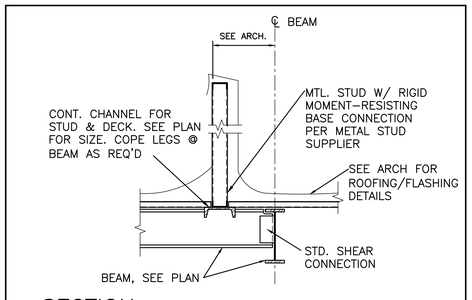
12 SECTION



13 SECTION AT MECH R.T.U.



14 SECTION AT MECH R.T.U.



15 SECTION

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

EXALT HEALTH
40 BED REHAB HOSPITAL
PANAMA CITY
2851 HWY 77
PANAMA CITY, FL

PROJECT: 3125020

Δ	DATE	DESCRIPTION

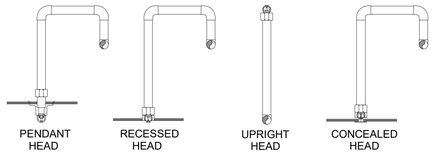
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

S4.2

FRAMING SECTIONS & DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, AT 100% ON ORIGINAL ARCHITECTURAL SHEETS

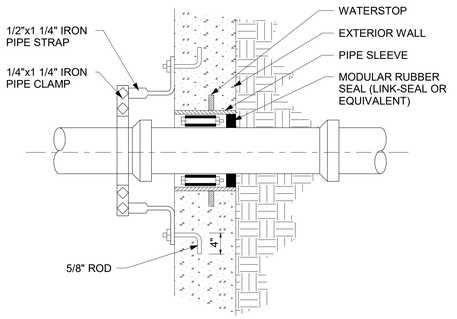


NOTES:

1. WHERE PENDANT STYLE HEADS ARE INDICATED AND AN ACOUSTICAL TILE CEILING IS TO BE INSTALLED, INSTALL PENDANT HEADS CENTERED IN BOTH DIRECTIONS.
2. ARMOVERS WHICH EXCEED 2' - 0" SHALL INCLUDE HANGERS TO STRUCTURE. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ARMOVERS WHICH EXCEED 1' - 0" SHALL INCLUDE HANGERS TO STRUCTURE.
3. CONTRACTOR HAS OPTION OF PROVIDING FLEXIBLE CONNECTIONS PER SPECIFICATION SECTION 21 13 13.

SPRINKLER HEAD DETAILS
No Scale

1



PIPE PENETRATION AT FOUNDATION WALL
No Scale

2

FIRE PROTECTION ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A/S	AUTOMATIC SPRINKLER	F	FIRE PROTECTION WET PIPE
FDC	FIRE DEPARTMENT CONNECTION	OS&Y	OUTSIDE SCREW & YOKE
FDV	FIRE DEPARTMENT VALVE	PRV	PRESSURE REDUCING VALVE
DP	FIRE PROTECTION DRY PIPE	W/	WITH
FE	FIRE EXTINGUISHER	FDVC	FIRE DEPT. VALVE CABINET
FDVC/FE	FIRE DEPT. VALVE CABINET W/ EXTINGUISHER	FEC	FIRE EXTINGUISHER CABINET

AUTOMATIC SPRINKLER & FIRE PROTECTION NOTES

AS PART OF THIS PROJECT, FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM FOR ALL CONSTRUCTION. THE END PRODUCT SHALL PRODUCE A FULLY SPRINKLERED FACILITY. COORDINATE WITH THE ARCHITECTURAL PLANS FOR THE LIMITS OF CONSTRUCTION, CEILING HEIGHTS AND CEILING TYPES. REFER TO THE FIRE PROTECTION FLOOR PLANS FOR CONNECTION POINTS AND ZONING OF THE SYSTEM(S).

THE FIRE PROTECTION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF NFPA, ALL LOCAL, COUNTY, AND STATE REGULATIONS, AS WELL AS THE FACILITY'S INSURANCE UNDERWRITER.

ALL SPRINKLER PIPING FROM "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM SHALL BE INSTALLED BY A REGISTERED SPRINKLER CONTRACTOR. UNDERGROUND WATER MAINS AND HYDRANTS MUST BE INSTALLED AND IN SERVICE PRIOR TO STARTING CONSTRUCTION.

PRESSFIT STYLE FITTINGS AND THREADABLE, THIN WALL PIPING SHALL NOT BE UTILIZED ON THIS PROJECT. FLEXIBLE, STAINLESS STEEL HOSE CONNECTIONS BETWEEN SPRINKLER HEADS AND BRANCH PIPING MAY BE UTILIZED WHERE ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BY THE SPRINKLER CONTRACTOR. PROVIDE CALCULATIONS FOR THE HYDRAULICALLY MOST DEMANDING AREA AND FOR EACH OCCUPANCY CLASSIFICATION. REFER TO PROJECT SPECIFICATIONS FOR DENSITY REQUIREMENTS.

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AND PROVIDED WITH TEMPERATURE RATINGS AS DICTATED BY NFPA FOR THE SPACES SERVED AND PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC., AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT. ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ALL AREAS AND CENTERED IN CEILING TILES. PROVIDE SPRINKLER HEADS BY TYPE AS FOLLOWS:

A. IN AREAS WITH A LAY-IN, TILE CEILING, PROVIDE CHROME-PLATED, SEMI-RECESSED, QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED ABOVE THE CEILING AND IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.

B. IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE BRASS, UPRIGHT QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED EXPOSED TO VIEW. WHERE EXPOSED IN OCCUPIED SPACES, PAINT PIPE TO MATCH ADJOINING AREAS (COLOR SELECTED BY ARCHITECT). PROVIDE AND INSTALL HARD-WIRE CAGE SPRINKLER GUARDS ON ALL SPRINKLER HEADS SUBJECT TO MECHANICAL DAMAGE.

C. IN AREAS WITH A FINISHED GYP BOARD CEILING (INCLUDING SOFFITS), PROVIDE CONCEALED, FULLY RECESSED QUICK RESPONSE TYPE SPRINKLER HEADS WITH WHITE COVER PLATE. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.

IN ADDITION, PROVIDE CONCEALED, FULLY RECESSED QUICK RESPONSE TYPE SPRINKLER HEADS WITH WHITE COVER PLATE IN ALL WAITING ROOMS, AND PATIENT ISOLATION ROOMS AND ASSOCIATED TOILETS.

SPECIAL CONSIDERATIONS

IN AREAS WHERE THE SPRINKLER SYSTEM IS SUBJECT TO FREEZING CONDITIONS, PROVIDE AUTOMATIC SPRINKLER PROTECTION IN THE FORM OF A DRY PIPE SYSTEM. PROVIDE AIR COMPRESSOR, AIR PIPING AND NECESSARY APPURTENANCES FOR A COMPLETE SYSTEM. REFER TO FLOOR PLANS FOR LOCATION OF VALVE ASSEMBLY.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	CONNECTION TO EXISTING
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	END CAP
F	FIRE PROTECTION WET PIPING
DP	FIRE PROTECTION DRY PIPING

FLORIDA GOVERNING CODES

FLORIDA BUILDING CODES:

- FLORIDA BUILDING CODE (2023) INCLUDING:
- FLORIDA ACCESSIBILITY CODE (2023)
- FLORIDA ENERGY COMPLIANCE CODE (2023)
- FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES (2023)
- FBC MECHANICAL CODE (2023)
- FBC PLUMBING CODE (2023)
- FBC FUEL GAS CODE (2023)
- GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS (2022)

FLORIDA ADMINISTRATIVE CODES (INCLUDING LIFE SAFETY CODES):

CODES AS REFERENCED IN THE FLORIDA BUILDING CODE, SECTION 419: HOSPITALS

- CHAPTER 69A-53: UNIFORM FIRE SAFETY STANDARDS FOR HOSPITALS AND NURSING HOMES
- CHAPTER 69A-3.012: STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND OTHER STANDARDS ADOPTED

FLORIDA FIRE PREVENTION CODE (2018) WHICH INCLUDES:

- NFPA 1, UNIFORM FIRE CODE (2021 EDITION)
- NFPA 13, STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (2019)
- NFPA 14, STANDARD FOR INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (2018)
- NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION (2018)
- NFPA 25, INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (2020)
- NFPA 50, STANDARD FOR BULK OXYGEN SYSTEMS AT CONSUMER SITES (2018)
- NFPA 72, STANDARD FOR THE NATIONAL FIRE ALARM AND SIGNALING CODE (2016)
- NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING SYSTEMS (2021)
- NFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING SYSTEMS (2021)
- NFPA 99, HEALTH CARE FACILITIES (2021)
- NFPA 101, LIFE SAFETY CODE (2021 EDITION)
- SFM UNIFORM FIRE SAFETY RULES: HTTPS://WWW.FLRULES.ORG/GATEWAY/ORGANIZATION.ASP?ID=359 OR 850-413-3619
- CHAPTER 633, FLORIDA STATUTES, FIRE PREVENTION AND CONTROL: HTTP://LEG.STATE.FL.US/STATUTES/ OR 850-413-3619
- NFPA 241, SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS (2019)

FIRE PROTECTION HAZARD SCHEDULE

HAZARD SYMBOL	HAZARD CLASS	DESIGN CRITERIA	HOSE	DURATION	SPRINKLER SPACING	NOTES
UNO	LIGHT	0.10 GPM/SF OVER 1500SF	100 GPM	30 MIN	MAX 225 SF; MAX 15' BETWEEN SPRINKLERS; MAX 7.5' FROM WALL	ALL AREAS ARE LIGHT HAZARD UNLESS NOTED OTHERWISE (UNO)
OH-1	ORDINARY HAZARD GROUP 1	0.15 GPM/SF OVER 1500SF	250 GPM	60 MIN	MAX 130 SF; MAX 15' BETWEEN SPRINKLERS MAX 7.5' FROM WALL	
OH-2	ORDINARY HAZARD GROUP 2	0.20 GPM/SF OVER 1500SF	250 GPM	90 MIN	MAX 130 SF; MAX 15' BETWEEN SPRINKLERS MAX 7.5' FROM WALL	
EH-1	EXTRA HAZARD GROUP 1	0.30 GPM/SF OVER 2500SF	500 GPM	90 MIN	MAX 100 SF; MAX 12' BETWEEN SPRINKLERS MAX 6' FROM WALL	
EH-2	EXTRA HAZARD GROUP 2	0.40 GPM/SF OVER 2500SF	500 GPM	120 MIN	MAX 100 SF; MAX 12' BETWEEN SPRINKLERS MAX 6' FROM WALL	

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.226.1917 | 801 Cherry St. Ste. 500, Fort Worth, TX 76102 | e4harchitecture.com
888.781.8441
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

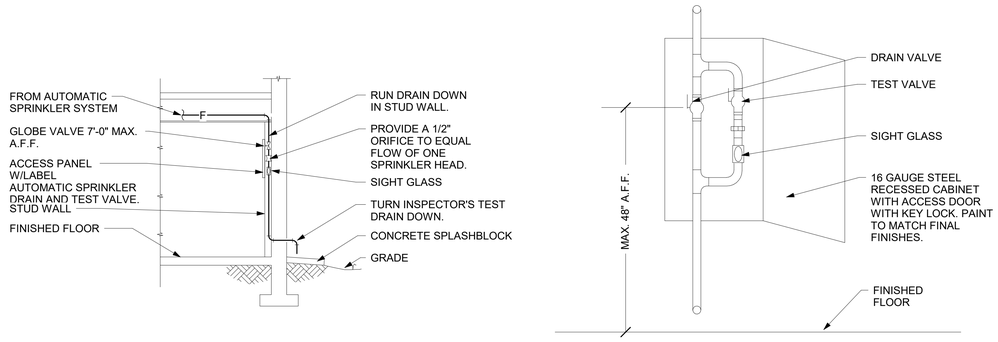
NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

FP0.01

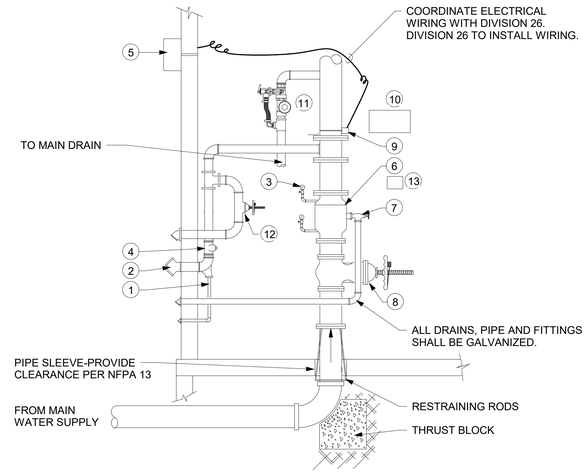
FIRE PROTECTION - LEGENDS & DETAILS



INSPECTOR'S TEST CONNECTION AND DRAIN WITH RECESSED CABINET

No Scale

1

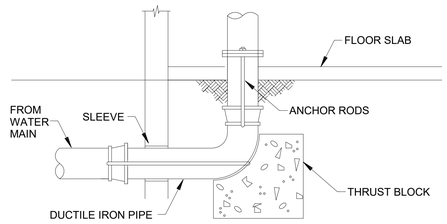


1. BALL DRIP
2. FIRE DEPARTMENT CONNECTION
3. WATER GAUGE
4. CHECK VALVE
5. ELECTRIC BELL
6. WET PIPE ALARM VALVE
7. MAIN DRAIN
8. O.S.&Y GATE VALVE WITH TAMPER SWITCH.
9. FLOW SWITCH (FIRE ALARM CONNECTION BY OTHERS)
10. SPARE SPRINKLER CABINET
11. INSPECTOR TEST AND DRAIN WITH SIGHT GLASS
12. FORWARD FLOW TEST OS&Y GATE VALVE WITH TAMPER SWITCH. VALVE SHALL BE IN NORMALLY CLOSED POSITION.
13. RISER NAME PLATE

WET SPRINKLER RISER DIAGRAM WITH ELECTRIC BELL

No Scale

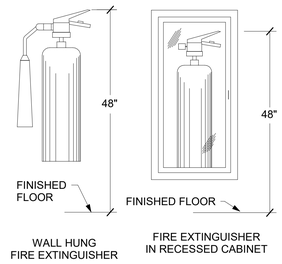
2



LEAD IN DETAIL

No Scale

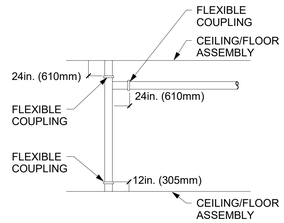
3



FIRE EXTINGUISHER MOUNTING HEIGHTS

No Scale

4



FLEXIBLE COUPLING ON HORIZONTAL PORTION OF TIE IN

No Scale

5

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

FP0.02

FIRE PROTECTION - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ON ALL SHEETS

SPRINKLER HEAD SCHEDULE

SYMBOL	DESCRIPTION	TEMP °F	K- FACTOR
●	FULLY CONCEALED	155	5.6
⊙	RECESSED	155	5.6
△	SIDEWALL	155	5.6
○	BRASS UPRIGHT	155	5.6
▲	DRY SIDEWALL	155	5.6
⊠	DRY PENDANT	155	5.6
∅	INTERMEDIATE TEMP	200	5.6

NOTES:

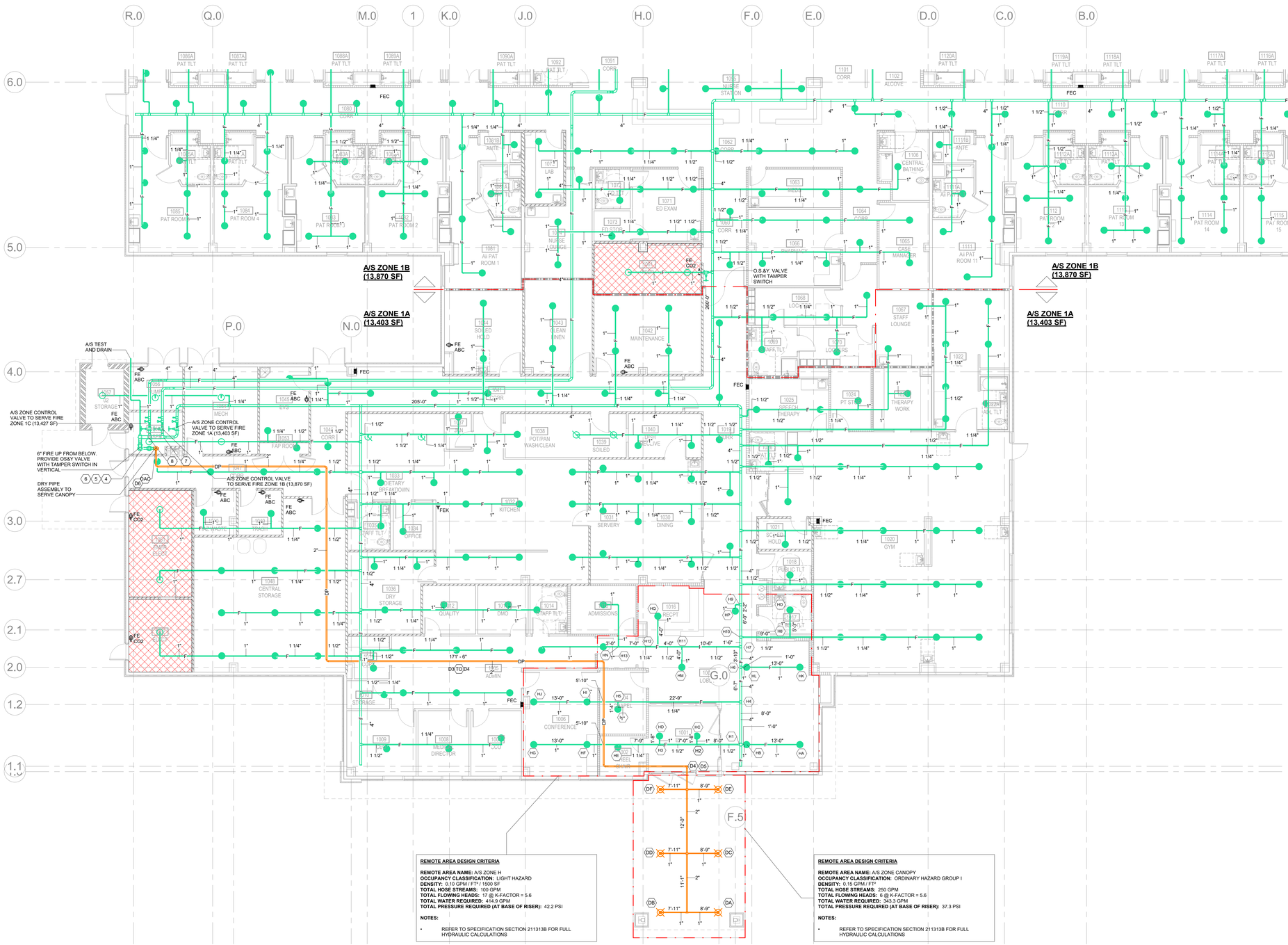
1. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE
2. FULLY CONCEALED HEADS TO BE WHITE UNLESS NOTED OTHERWISE
3. FINAL LOCATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH FINAL CEILING LAYOUT.
4. ALL SPRINKLER HEADS RUN-OUTS SHALL BE A MINIMUM OF 1" DIAMETER.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

HYDRAULIC NODES:

⬡ = HYDRAULIC CALCULATION NODE. REFER TO HYDRAULIC CALCULATIONS FOR DETAILS. FOR REFRENCE ONLY.



REMOTE AREA DESIGN CRITERIA

REMOTE AREA NAME: A/S ZONE H
OCCUPANCY CLASSIFICATION: LIGHT HAZARD
DENSITY: 0.10 GPM / FT² / 1500 SF
TOTAL HOSE STREAMS: 100 GPM
TOTAL FLOWING HEADS: 17 @ K-FACTOR = 5.6
TOTAL WATER REQUIRED: 414.9 GPM
TOTAL PRESSURE REQUIRED (AT BASE OF RISER): 42.2 PSI

NOTES:

- REFER TO SPECIFICATION SECTION 211313B FOR FULL HYDRAULIC CALCULATIONS

REMOTE AREA DESIGN CRITERIA

REMOTE AREA NAME: A/S ZONE CANOPY
OCCUPANCY CLASSIFICATION: ORDINARY HAZARD GROUP I
DENSITY: 0.15 GPM / FT²
TOTAL HOSE STREAMS: 250 GPM
TOTAL FLOWING HEADS: 6 @ K-FACTOR = 5.6
TOTAL WATER REQUIRED: 343.3 GPM
TOTAL PRESSURE REQUIRED (AT BASE OF RISER): 37.3 PSI

NOTES:

- REFER TO SPECIFICATION SECTION 211313B FOR FULL HYDRAULIC CALCULATIONS

1 FP2.01a FIRE PROTECTION - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

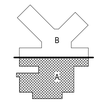
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

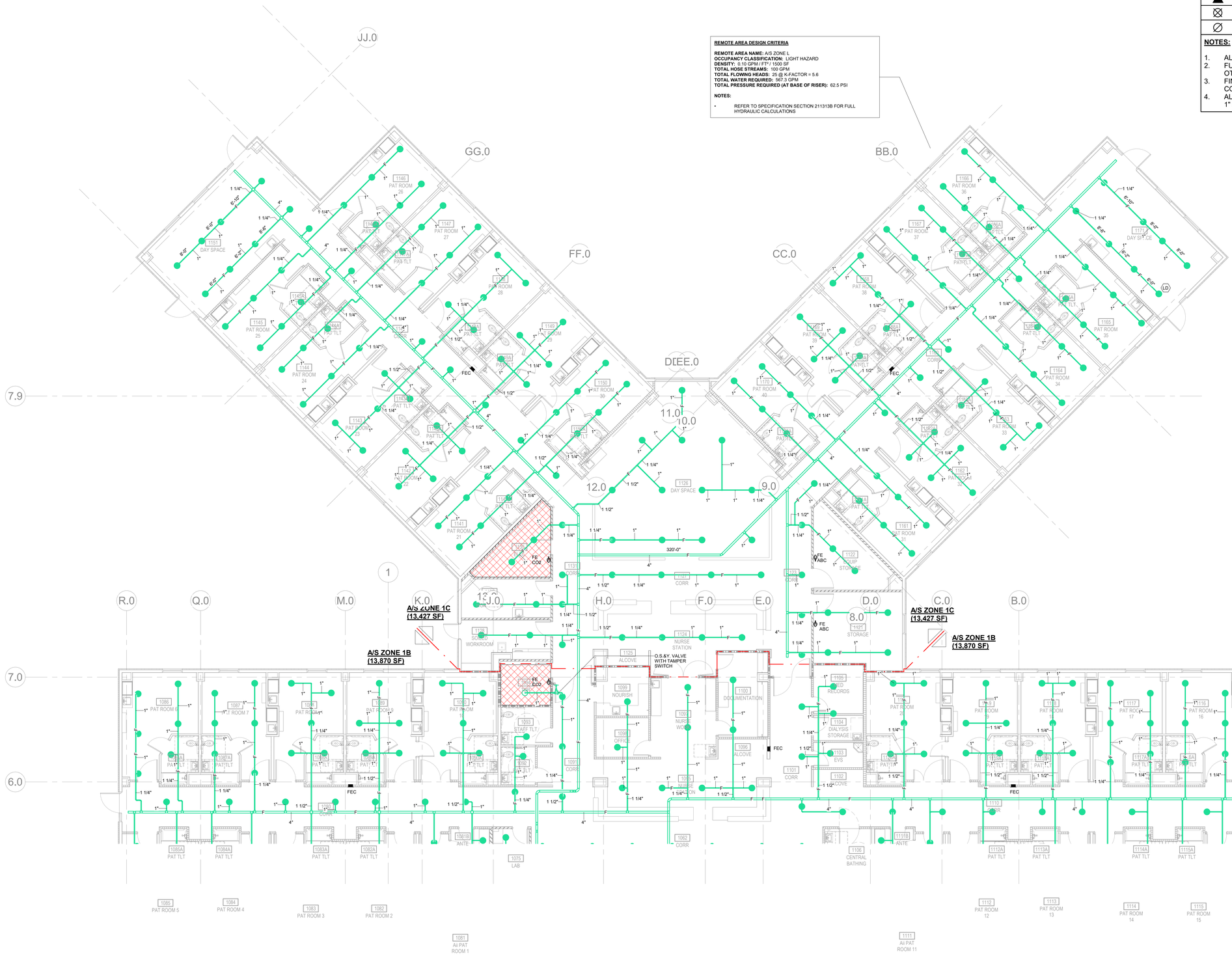
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

FP2.01a

FIRE PROTECTION - FLOOR PLAN - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE



REMOTE AREA DESIGN CRITERIA

REMOTE AREA NAME: A/S ZONE L
OCCUPANCY CLASSIFICATION: LIGHT HAZARD
DENSITY: 0.10 GPM / FT² / 1500 SF
TOTAL HOSE STREAMS: 100 GPM
TOTAL FLOWING HEADS: 25 @ K-FACTOR = 5.6
TOTAL WATER REQUIRED: 567.3 GPM
TOTAL PRESSURE REQUIRED (AT BASE OF RISER): 62.5 PSI

NOTES:

- REFER TO SPECIFICATION SECTION 211313B FOR FULL HYDRAULIC CALCULATIONS

SPRINKLER HEAD SCHEDULE

SYMBOL	DESCRIPTION	TEMP °F	K- FACTOR
●	FULLY CONCEALED	155	5.6
⊙	RECESSED	155	5.6
△	SIDEWALL	155	5.6
○	BRASS UPRIGHT	155	5.6
▲	DRY SIDEWALL	155	5.6
⊠	DRY PENDANT	155	5.6
⊘	INTERMEDIATE TEMP	200	5.6

NOTES:

1. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE
2. FULLY CONCEALED HEADS TO BE WHITE UNLESS NOTED OTHERWISE
3. FINAL LOCATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH FINAL CEILING LAYOUT.
4. ALL SPRINKLER HEADS RUN-OUTS SHALL BE A MINIMUM OF 1" DIAMETER.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

HYDRAULIC NODES:

= HYDRAULIC CALCULATION NODE. REFER TO HYDRAULIC CALCULATIONS FOR DETAILS. FOR REFRENCE ONLY.

1 FP2.01b FIRE PROTECTION - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

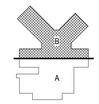
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

FP2.01b

FIRE PROTECTION - FLOOR PLAN - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PLOTTED SHEETS

KITCHEN AND FOOD SERVICE EQUIPMENT GENERAL NOTES

IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CONNECT ALL KITCHEN AND FOOD SERVICE EQUIPMENT COMPLETE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A. ALLOW FOR, FURNISH, AND INSTALL ALL REQUIRED TRAPS.

B. STOPS SHALL BE FURNISHED AND INSTALLED ON ALL HOT AND COLD WATER LINES AT EQUIPMENT IN AN ACCESIBLE LOCATION.

C. FOOD SERVICE EQUIPMENT CONTRACTOR SHALL FURNISH DISPOSER UNITS COMPLETE WITH VACUUM BREAKER AND FULL PORTED SOLENOID VALVE. PLUMBING CONTRACTOR SHALL FURNISH TRAPS, SHOCK ABSORBERS, AND SHUTOFF VALVES AND MAKE FINAL CONNECTIONS.

D. GENERAL WATER PRESSURE IN KITCHEN AREA SHALL NOT EXCEED 50 PSI. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL REDUCING VALVES AS REQUIRED. AT THE DISHWASHER CONNECTION, THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING: WATTS 135LP PRESSURE REDUCING VALVES SET TO MAINTAIN 20 PSI OUTLET PRESSURE, MARSH 2-1/2" FACE – 0-60 PSI PRESSURE GAUGE WITH 1/4" BRASS TEE HANDLE COCK, AND WEKSLER AA5 THERMOMETER WITH 9" SCALE AND SEPARABLE SOCKET. LINE SHALL BE INCREASED AT THERMOMETER TO ALLOW THERMOMETER BULB TO BE INSTALLED WITHIN THE LINE WITHOUT OBSTRUCTING THE LINE FLOW SIZE

E. EXPOSED PIPES TO STEAMERS, KETTLES, ETC., SHALL BE CHROME PLATED OR STAINLESS STEEL. EQUIPMENT SINKS SHALL BE PROVIDED WITH 1-1/2" CONNECTIONS. 2" ROTARY TYPE DRAINS SHALL BE COMPLETE WITH 1-1/2" THREADED WASTE CONNECTION ADAPTERS.

F. TAILPIECE FOR SINKS SHALL BE CHROME PLATED, FLARED BRASS TUBING FOR CONNECTION TO 1-1/2" IPS MALE PIPE THREADED FITTING.

G. P-TRAP SHALL BE CHROME PLATED, ADJUSTABLE CAST BRASS, UNIFORM CODE PATTERN, COMPLETE WITH CLEANOUT.

H. ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT BY MEANS OF SLEEVES

I. INDIRECT WASTE LINES REQUIRED FOR STANDARD AND/OR FABRICATED ITEMS OF KITCHEN EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND EXTENDED TO DRAIN POSITION BY THE FOOD SERVICE EQUIPMENT CONTRACTOR EXCEPT FOR SINKS.

J. WATER INLET FITTINGS FOR DISHTABLE TROUGHS SHALL BE FURNISHED AND INSTALLED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBING CONTRACTOR SHALL PROVIDE COLD WATER SERVICE, ALL INTERCONNECTING PIPING, AND VACUUM BREAKERS AND MAKE FINAL CONNECTIONS.

K. FOOD SERVICE EQUIPMENT CONTRACTOR SHALL PROVIDE ALL EQUIPMENT TRIM, INCLUDING FAUCETS AND SINK WASTES AND SWING FAUCETS AT KETTLES AND RANGES, ALL TO BE INSTALLED BY THE PLUMBING CONTRACTOR.

L. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6" ABOVE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHEREVER POSSIBLE.

M. PLUMBING CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT CONTRACTOR FOR EXACT LOCATIONS OF FLOOR DRAINS AND STUBOUTS FOR KITCHEN EQUIPMENT. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO KITCHEN EQUIPMENT FROM ROUGH-IN. ROUGH-IN SHALL TERMINATE WITH SERVICE VALVE.

FLORIDA GOVERNING CODES

FLORIDA BUILDING CODES:

- FLORIDA BUILDING CODE (2023) INCLUDING:
- FLORIDA ACCESSIBILITY CODE (2023)
- FLORIDA ENERGY COMPLIANCE CODE (2023)
- FBC TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES (2023)
- FBC MECHANICAL CODE (2023)
- FBC PLUMBING CODE (2023)
- FBC FUEL GAS CODE (2023)
- GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS (2022)

FLORIDA ADMINISTRATIVE CODES (INCLUDING LIFE SAFETY CODES):

CODES AS REFERENCED IN THE FLORIDA BUILDING CODE, SECTION 419: HOSPITALS

- CHAPTER 69A-53: UNIFORM FIRE SAFETY STANDARDS FOR HOSPITALS AND NURSING HOMES
- CHAPTER 69A-3.012: STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND OTHER STANDARDS ADOPTED

FLORIDA FIRE PREVENTION CODE (2018) WHICH INCLUDES:

- NFPA 1, UNIFORM FIRE CODE (2021 EDITION)
- NFPA 13, STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (2019)
- NFPA 14, STANDARD FOR INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (2018)
- NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION (2018)
- NFPA 25, INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (2020)
- NFPA 50, STANDARD FOR BULK OXYGEN SYSTEMS AT CONSUMER SITES (2018)
- NFPA 72, STANDARD FOR THE NATIONAL FIRE ALARM AND SIGNALING CODE (2016)
- NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING SYSTEMS (2021)
- NFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING SYSTEMS (2021)
- NFPA 99, HEALTH CARE FACILITIES (2021)
- NFPA 101, LIFE SAFETY CODE (2021 EDITION)
- SFM UNIFORM FIRE SAFETY RULES: HTTPS://WWW.FLRULES.ORG/GATEWAY/ORGANIZATION.ASP?ID=359 OR 850-413-3619
- CHAPTER 633, FLORIDA STATUTES, FIRE PREVENTION AND CONTROL: HTTP://LEG.STATE.FL.US/STATUTES/ OR 850-413-3619
- NFPA 241, SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS (2019)

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	REDUCED PRESSURE BACKFLOW PREVENTER
	P TRAP
	BALL VALVE
	CONNECTION TO EXISTING
	MEDICAL GAS ZONE VALVE BOX
	MEDICAL GAS ALARM PANEL
A	MEDICAL GAS DESIGNATION
	FLOOR DRAIN
P- No.	PLUMBING FIXTURE DESIGNATION
	END CAP
CW	COLD WATER SUPPLY
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
140 HWS	140 HOT WATER SUPPLY
140 HWR	140 HOT WATER RETURN
FW	FILTERED WATER
NG	NATURAL GAS
SV	SANITARY VENT
GV	GREASE VENT
SS	SANITARY WASTE
RWL	RAIN WATER LEADER
ORD	OVERFLOW ROOF DRAIN
FD	FOOTING DRAIN
O2	OXYGEN LINE
V	MEDICAL VACUUM LINE

MEDICAL GAS OUTLET SCHEDULE

TAG	TYPE	GASES / APPURTENANCES ACTUAL	GASES / APPURTENANCES REQUIRED	LOCATION
A	WALL	(1) O2 - (1) V	(1) O2 - (1) V	PAT ROOM & ED EXAM

NOTE:

1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF MEDICAL GAS WALL OUTLETS

( ) = MEDICAL GAS TAG - LETTER DESIGNATION CORRESPONDS TO THE "TAG" FIELD IN THIS SCHEDULE

MEDICAL GAS ZONE VALVE & ALARM SCHEDULE

TAG	DESCRIPTION	GASES / APPURTENANCES	LOCATION
ZVB	ZONE VALVE BOX	AS SHOWN ON PLANS	AS SHOWN ON PLANS
MAP	MASTER ALARM PANEL	AS SHOWN ON PLANS	NURSE STATION 1089 & MAINTENANCE 1069

NOTE:

1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF MEDICAL GAS ZONE VALVES AND ALARMS.

GAS STORAGE WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	RECOVERY @100°F	GAS INPUT (BTUH)	LOCATION
WH-1	LOCHINVAR	AWN501PM	582 GPH	500,000	MECH 1031
WH-2	LOCHINVAR	AWN501PM	582 GPH	500,000	MECH 1031

HOT WATER CIRCULATING PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	FLOW (GPM)	HEAD (PSI)	HORSEPOWER	ELECTRICAL	LOCATION
CP-1	GRUNDFOS	MAGNA3 40-120 GF N	25	21	1/2	120/1/60	MECH 1031
CP-2	GRUNDFOS	MAGNA3 32-60 gf	5	11	0.045	120/1/60	MECH 1031

MEDICAL VACUUM PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	TOTAL SYSTEM CAPACITY (SCFM)	TYPE / MOTOR CONFIG.	HORSEPOWER	ELECTRICAL	LOCATION
VP-1	PATTONS	70BI-22-12-A	5	DUPLEX	1.2	208/3/60	PUMP 1027

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT	O2	OXYGEN LINE
AFF	ABOVE FINISHED FLOOR	OFE	OWNER FURNISHED EQUIPMENT
BPW	BED PAN WASHER	PAT	PATIENT
CLG	CEILING	PUB	PUBLIC
CONT	CONTINUATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
COORD	COORDINATION	RWL	RAINWATER PIPING
CO	CLEAN OUT	SS	SANITARY SEWER PIPING
CW	COLD WATER LINE	SD	UNDERGROUND STORM PIPING
DN	DOWN	SF	SQUARE FOOT
DWG	DRAWING	SV	SANITARY VENT PIPING
EA	EACH	TMP	TEMPERATURE
FM	FLOOR MOUNTED	TMV	THERMOSTATIC MIXING VALVE
FV	FLUSH VALVE	TYP	TYPICAL
GN	GOOSENECK	V	MEDICAL VACUUM PIPING
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HW	HOT WATER LINE	W/	WITH
HWR	HOT WATER RETURN	WB	WRIST BLADE
LAV	LAVATORY	WC	WATER CLOSET
MAP	MASTER ALARM PANEL	WCO	WALL CLEAN OUT
MECH	MECHANICAL	WH	WALL HUNG
MTD	MOUNTED		

00 PLUMBING FIXTURE CONNECTION SCHEDULE

P NO.	DESCRIPTION	WASTE	COLD WATER	HOT WATER
P101	WATER CLOSET (FM, FV, ACC.)	4"	1"	---
P102	WATER CLOSET (FM, FV, BPW)	4"	1"	---
P103	WATER CLOSET (FM, FV, BARIATRIC, ACC.)	4"	1"	---
P301	LAVATORY (WH, GN, WB, ACC.)	1 1/2"	1/2"	1/2"
P302	LAVATORY (WH, GN, WB, PUB., ACC.)	1 1/2"	1/2"	1/2"
P303	LAVATORY (WH, GN, WB, BARIATRIC, ACC.)	1 1/2"	1/2"	1/2"
P401	SINK (DROP-IN, GN, WB, ACC.)	1 1/2"	1/2"	1/2"
P402	SINK (DROP-IN, KITCHEN, HOSE SPOUT)	1 1/2"	1/2"	1/2"
P501	SERVICE BASIN	3"	1/2"	1/2"
P502	CLINICAL SINK (FM)	4"	1"	1/2"
P601	SHOWER (SS, TRENCH, ACC.)	2"	1/2"	1/2"
P701	FLOOR DRAIN (REG.)	AS SHOWN	---	---
P702	FLOOR DRAIN (MECH.)	AS SHOWN	---	---
P705	FLOOR SINK (HALF GRATE)	AS SHOWN	---	---
P710	ROOF DRAIN	AS SHOWN	---	---
P711	OVERFLOW ROOF DRAIN	AS SHOWN	---	---
P724	DOWNSPOUT NOZZLE	AS SHOWN	---	---
P801	WALL HYDRANT (EXTERIOR)	---	3/4"	---
P802	HOSE BIBB (INTERIOR)	---	3/4"	---
P804	ICE MACHINE CONNECTION BOX	---	1/2"	---
P807	DIALYSIS CONNECTION BOX (TW)	---	1/2"	1/2"
P811B	DRINKING FOUNTAIN (HI-LOW, REMOTE CHILLER, BOTTLE FILLER, ACC.)	1 1/2"	1/2"	---
P813	EMERGENCY EYEWASH (COUNTER MOUNTED)	---	1/2"	1/2"
P815	ICE MAKER CONNECTION BOX W/ DRAIN	2"	1/2"	---
P819	ROOF HYDRANT	---	3/4"	---
P901	BATHTUB	2"	1/2"	1/2"

NOTES:
1. ALL WALL MTD. FIXTURES SHALL BE PROVIDED WITH FLOOR MOUNTED, CONCEALED ARM WALL CARRIER.
2. ALL EXPOSED P-TRAPS SHALL BE PROVIDED W/LAV SHIELDS.
3. PROVIDE BACKFLOW PREVENTER AT CONNECTION TO OWNER FURNISHED EQUIPMENT PER IPC.
4. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS. TRAP PRIMER SUPPLY TO BE 1 1/4" CW OR SMALLER.
5. IN ADDITION TO SERVICE VALVES SHOWN ON PLANS, PROVIDE AND INSTALL ISOLATION VALVES ON HOT AND COLD WATER SUPPLY PIPING TO EACH PLUMBING FIXTURE, INCLUDING TRAP PRIMERS.
6. WATER HAMMER ARRESTORS TO BE ZURN SERIES Z-1700 OR EQUAL. SIZE AS INDICATED ON WATER RISER DIAGRAM. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY-IN CEILINGS, WALL IN CHASE.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS OF FIXTURES.
8. P804 TO BE LOCATED IN WALL AT OFE ICE MAKERS. OWNER FURNISHED FILTER TO BE INSTALLED IN CASEWORK. ROUTE DRAIN PIPING FROM ICEMAKERS TO FLOOR DRAIN AS INDICATED ON PLANS.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

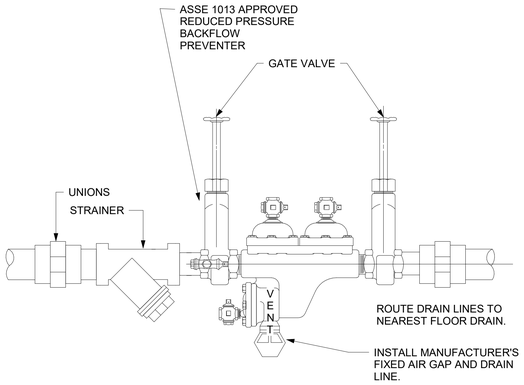
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P0.01

PLUMBING - LEGENDS & SCHEDULES

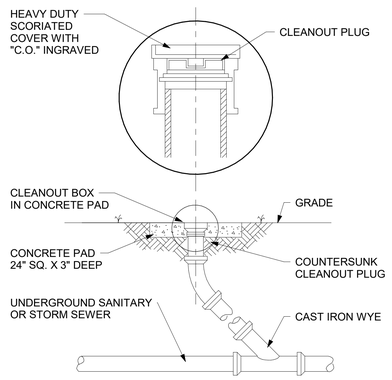
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH D SHEETS



3/4" - 2" REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

No Scale

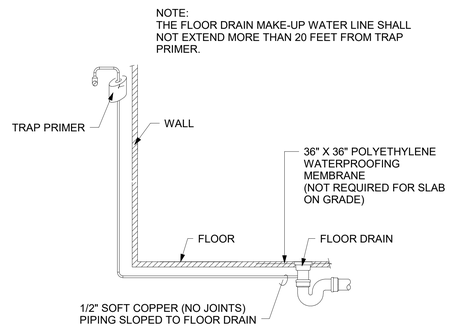
1



EXTERIOR CLEANOUT DETAIL

No Scale

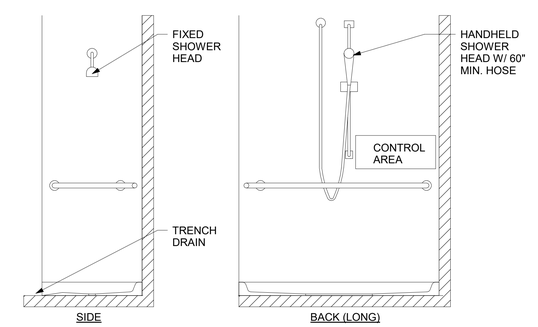
2



FLOOR DRAIN TRAP PRIMER DETAIL

No Scale

3



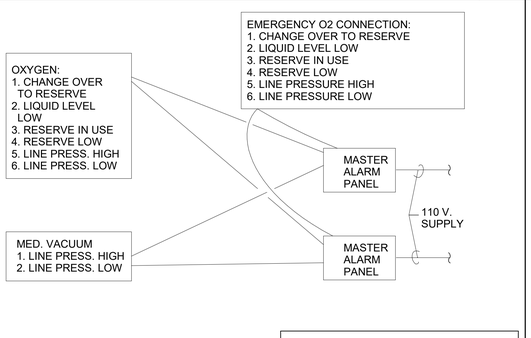
ADA ROLL-IN SHOWER DETAIL

No Scale

4

NOTE:

REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR DIMENSIONS.

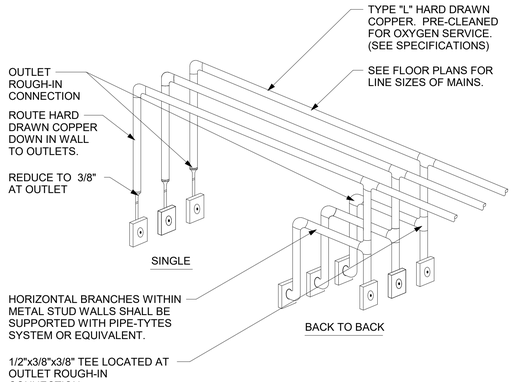


NOTE:
EACH ALARM POINT LISTED REQUIRES A STRANDED 18 GAUGE, SHIELDED TWISTED PAIR CABLE EQUAL TO BELDEN #8451 OR WEST PENN #452. ALL WIRING IN MIN. 3/4" CONDUIT. ALL WIRING AND CONDUIT BETWEEN THE MASTER ALARM PANELS AND THE SOURCES, AS SHOWN, SHALL BE PROVIDED BY AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (REFER TO MEDICAL GAS DRAWINGS FOR ALL EQUIPMENT CONNECTIONS REQUIRED).

MEDICAL GAS MASTER ALARM PANEL WIRING SCHEMATIC

No Scale

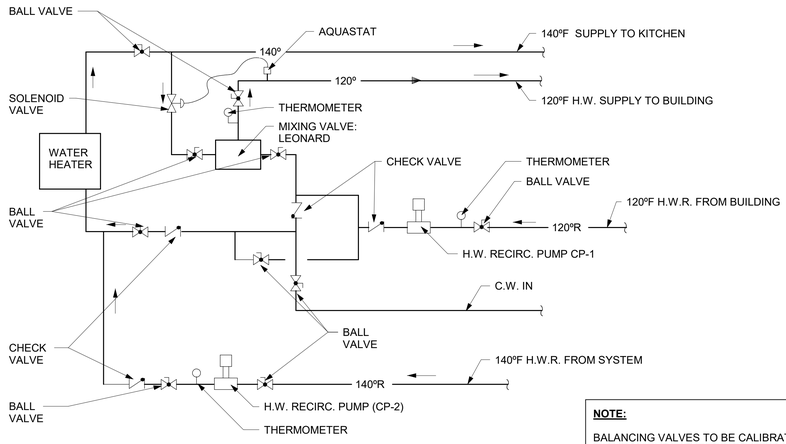
5



MEDICAL GAS PIPING AT OUTLETS

No Scale

6



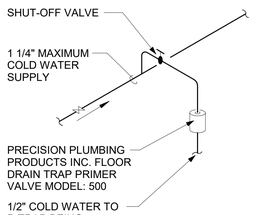
NOTE:

BALANCING VALVES TO BE CALIBRATED PER SPECIFIC VALVE MANUFACTURER'S PRINTED INSTRUCTIONS.

PIPING SCHEMATIC AT BUILDING MIXING VALVE

No Scale

7

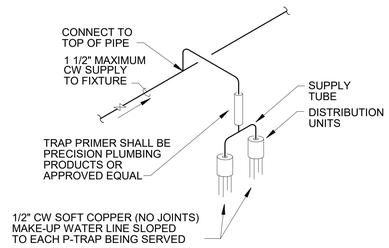


SINGLE TRAP PRIMER DETAIL

No Scale

8

PRIMER MODEL	NO. OF DRAINS	SUPPLY TUBE	DISTRIBUTION UNIT
P2-500	1	N/A	N/A
P2-500	2	N/A	DU-2
P1-500	3	N/A	DU-3
P1-500	4	N/A	DU-4
P1-500	5	YS-8	DU-2 & DU-3
P1-500	6	YS-8	DU-3 & DU-3
P1-500	7	YS-8	DU-3 & DU-4
P1-500	8	YS-8	DU-4 & DU-4

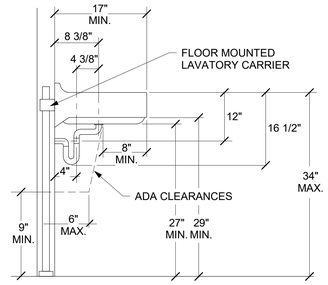


NOTE:
THE PRIMER ASSEMBLY SHALL BE INSTALLED LEVEL AND IN AN ACCESSIBLE LOCATION
THE PRIMER ASSEMBLY SHALL BE INSTALLED A MINIMUM OF ONE FOOT ABOVE FINISHED FLOOR FOR EVERY 20 FEET OF FLOOR DRAIN TRAP MAKE-UP WATER LINE.

TRAP PRIMER DETAIL

No Scale

9

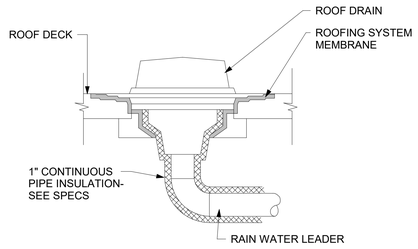


NOTE:
CONTRACTOR TO FIELD MODIFY P-TRAP AND OFFSET DRAIN TO EXACT SIZES AS SHOWN.

ACCESSIBLE LAVATORY INSTALLATION W/ CARRIER DETAIL

No Scale

10



ROOF DRAIN INSULATION DETAIL

No Scale

11

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

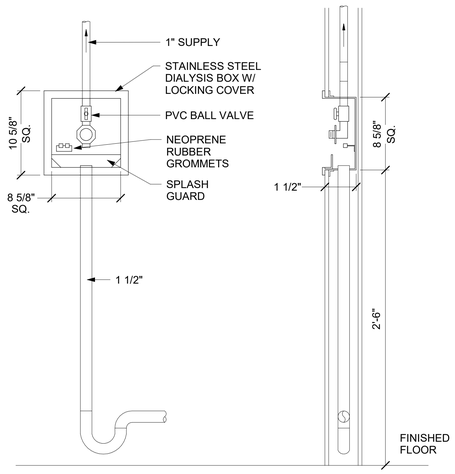
CURRENT:

SHEET TITLE AND NUMBER:

P0.02

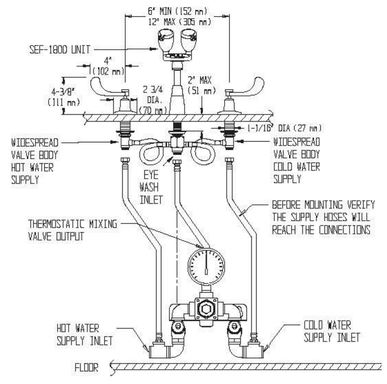
PLUMBING - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE
IF NOT ONE INCH REDUCE



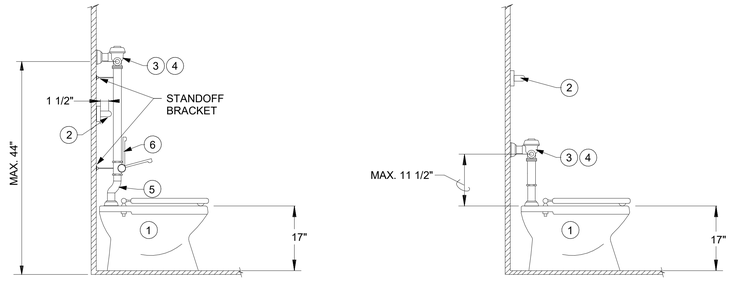
DIALYSIS BOX DETAIL
No Scale

1



EYEWASH/FAUCET COMBINATION DETAIL
No Scale

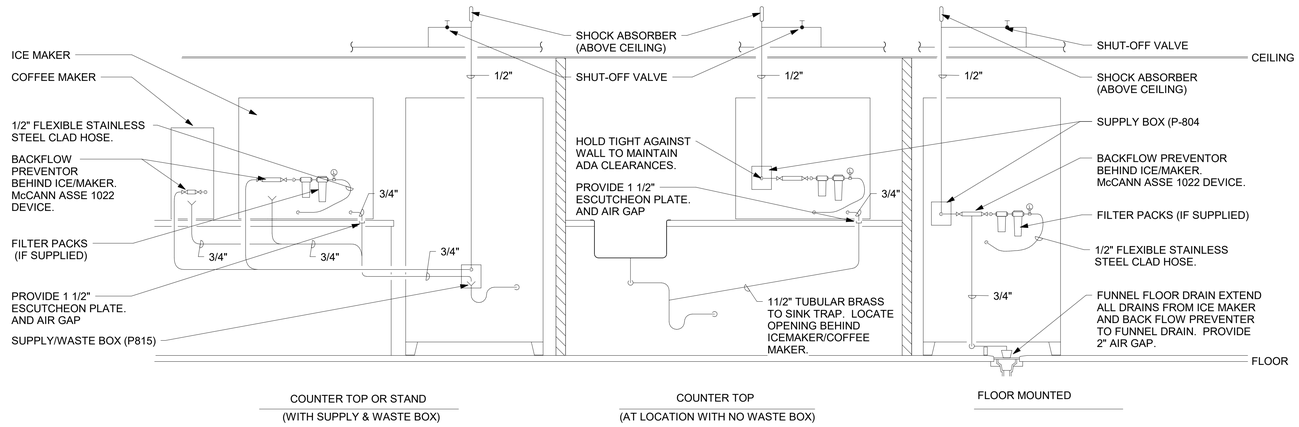
2



1. FLOOR MOUNTED WATER CLOSET. TOP OF SEAT SHALL BE 17"-19" IN CONFORMANCE WITH A.D.A. GUIDELINES.
2. HANDICAP GRAB BAR. MOUNT BETWEEN 33" AND 36" AFF. TO CONFORM WITH A.D.A. GUIDELINES.
3. FLUSH VALVE HANDLE : MOUNT @ A MAXIMUM OF 44" A.F.F.
4. HANDLE OF FLUSH VALVE SHALL BE MOUNTED ON WIDE SIDE OF ROOM.
5. PROVIDE OFFSET IN MAIN TUBE TO CLEAR GRAB BAR.
6. PROVIDE BED PAN WASHER WHICH ACCOMMODATES THE OFFSET MAIN TUBE.
7. FLUSH VALVE. MOUNT @ 27 5/8" TO CENTER OF HANDLE.

FLOOR MOUNTED ACCESSIBLE, WATER CLOSET DETAIL
No Scale

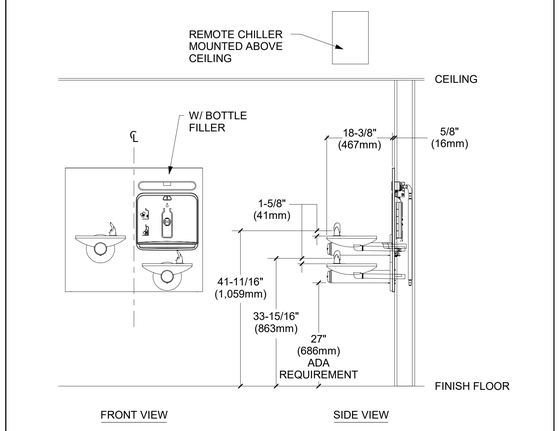
3



NOTE:
PROVIDE TRANSITION & FITTINGS AS REQUIRED TO CONNECT TO OWNER FURNISHED ICE MAKER / COFFEE MAKER. ROUTE ALL DRAINS TO INDIRECT WASTE RECEPTOR. ALL COMPONENTS TO BE BEHIND ICE MAKER OR COFFEE MAKER. PIPING IN CABINET UNDER COUNTER TO BE TYPE-L COPPER

ICE MAKER/COFFEE MAKER CONNECTION DETAIL
No Scale

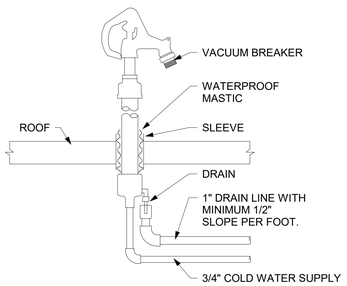
4



NOTE:
WHERE REAR ACCES PANELS CANNOT BE INSTALLED. PROVIDE FULL WIDTH FRONT ACCESS. PANEL TO BE 18 GAUGE, 300 SERIES HIGH SHINE LUSTEROUS FINISH TO MATCH WATER COOLER FINISH.

REMOTE COOLER DETAIL WITH BOTTLE FILLER
No Scale

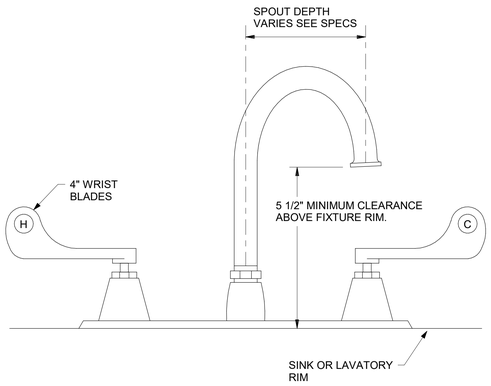
5



JOSAM 71400 WITH VACUUM BREAKER

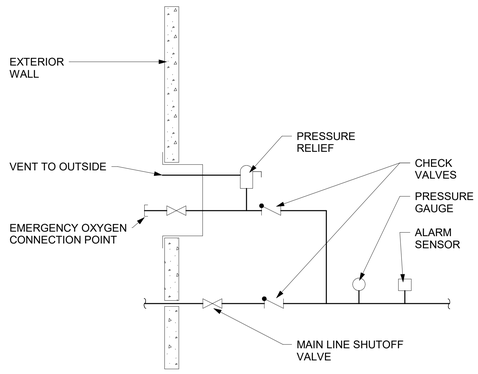
HOSE HYDRANT ON ROOF DETAIL
No Scale

6



TYPICAL GOOSENECK FAUCET REQUIREMENTS
No Scale

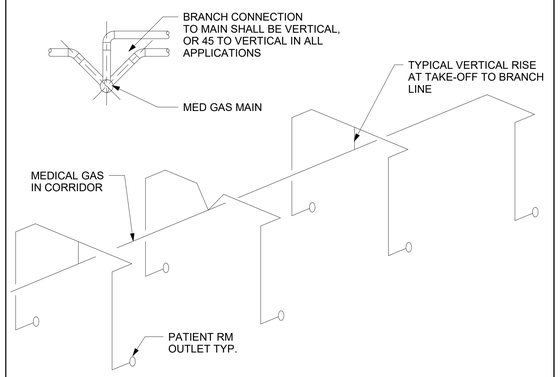
7



NOTE :
IF THE RELIEF VALVE ON THE EMERGENCY OXYGEN CONNECTION IS MOVED TO DOWNSTREAM FROM THE CHECK VALVE IN THE EMERGENCY OXYGEN LINE, CONNECT IT TO THE SYSTEM WITH A DEMAND CHECK VALVE.
[NFPA 99 FIGURE 4-3.1.1.8(H)]

EMERGENCY OXYGEN CONNECTION DETAIL
No Scale

8



PATIENT ROOM AND CORRIDOR MEDICAL GAS MAINS DETAIL
No Scale

9

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

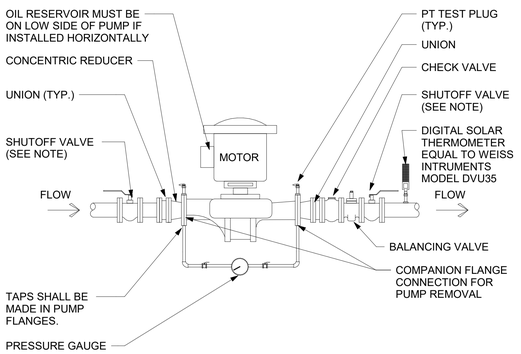
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P0.03

PLUMBING - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

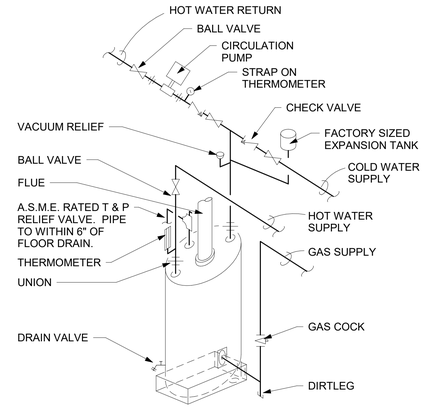


NOTE:

PROVIDE BALL VALVE FOR THIS APPLICATION.

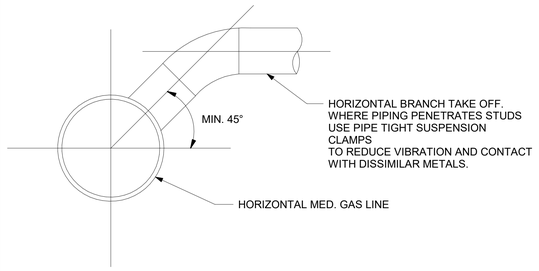
IN-LINE CIRCULATING PUMP DETAIL
No Scale

1



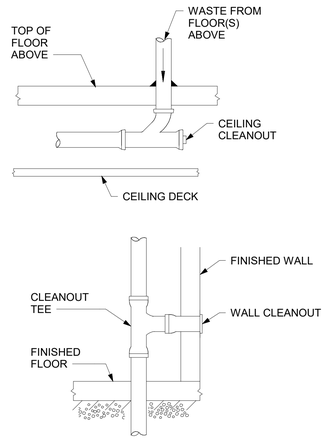
GAS WATER HEATER DETAIL WITH CIRCULATION PUMP AND DRAIN PAN
No Scale

2



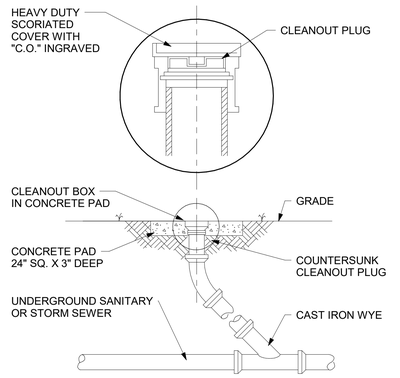
MEDICAL GAS HORIZONTAL BRANCH TAKEOFF
No Scale

3



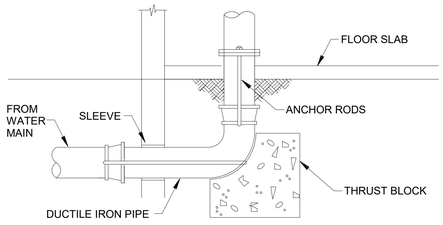
BASE OF RISER CLEANOUT DETAIL
No Scale

4



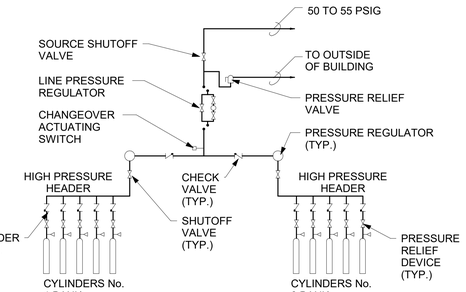
EXTERIOR CLEANOUT DETAIL
No Scale

5



LEAD IN DETAIL
No Scale

6

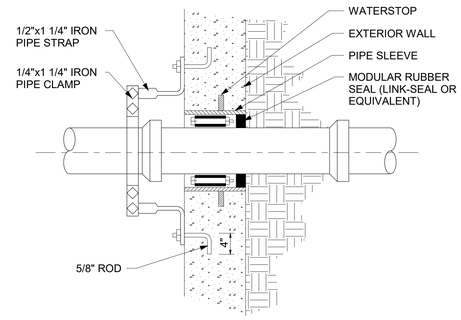


NOTE:
VERIFY NUMBER OF CYLINDERS FOR EACH GAS SERVICE.

(TYPICAL FOR OXYGEN)

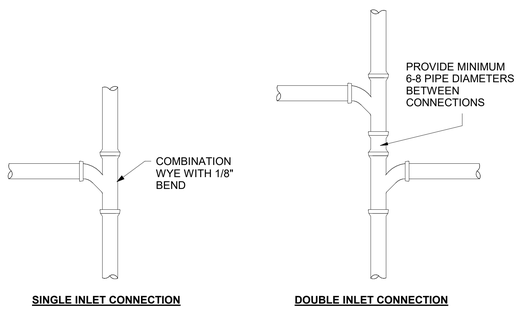
TANK CYLINDER MANIFOLD PIPING SCHEMATIC
No Scale

7



PIPE PENETRATION AT FOUNDATION WALL
No Scale

8

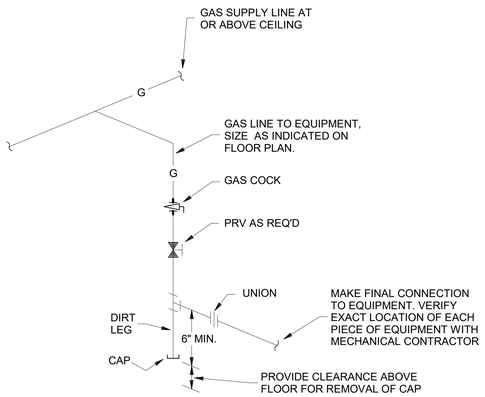


SINGLE INLET CONNECTION

DOUBLE INLET CONNECTION

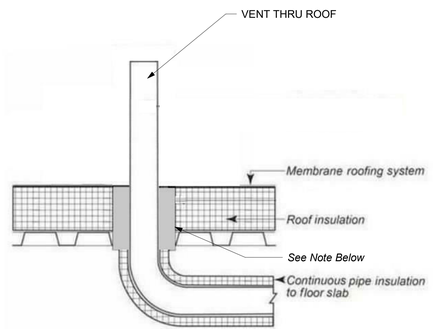
SANITARY PIPE CONNECTION DETAIL
No Scale

9



TYPICAL GAS CONNECTION DETAIL
No Scale

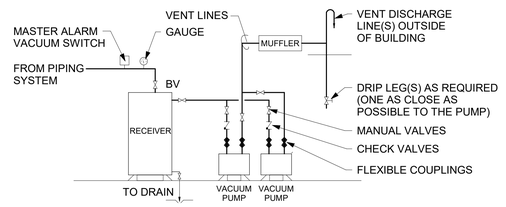
10



PACKING MATERIAL - MIN 1 IN. (25MM) THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM B)

PLUMBING VTR INSULATION DETAIL
No Scale

11



VACUUM PUMP PIPING SCHEMATIC
No Scale

12

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

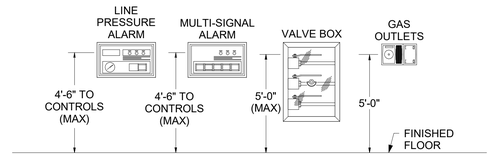
CURRENT:

SHEET TITLE AND NUMBER:

P0.04

PLUMBING - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

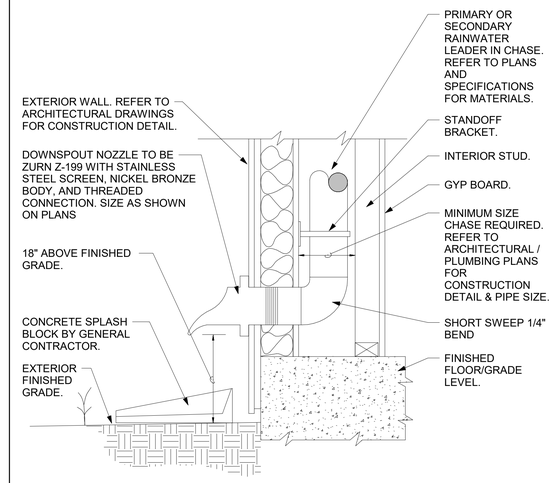


WALL UNITS

MEDICAL GAS MOUNTING HEIGHT DETAIL

No Scale

2



CONCEALED DOWNSPOUT NOZZLE DETAIL

No Scale

5

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P0.05

PLUMBING - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED DRAWINGS. ADJUST SCALE ACCORDINGLY IF THIS LINE IS NOT ONE INCH.

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

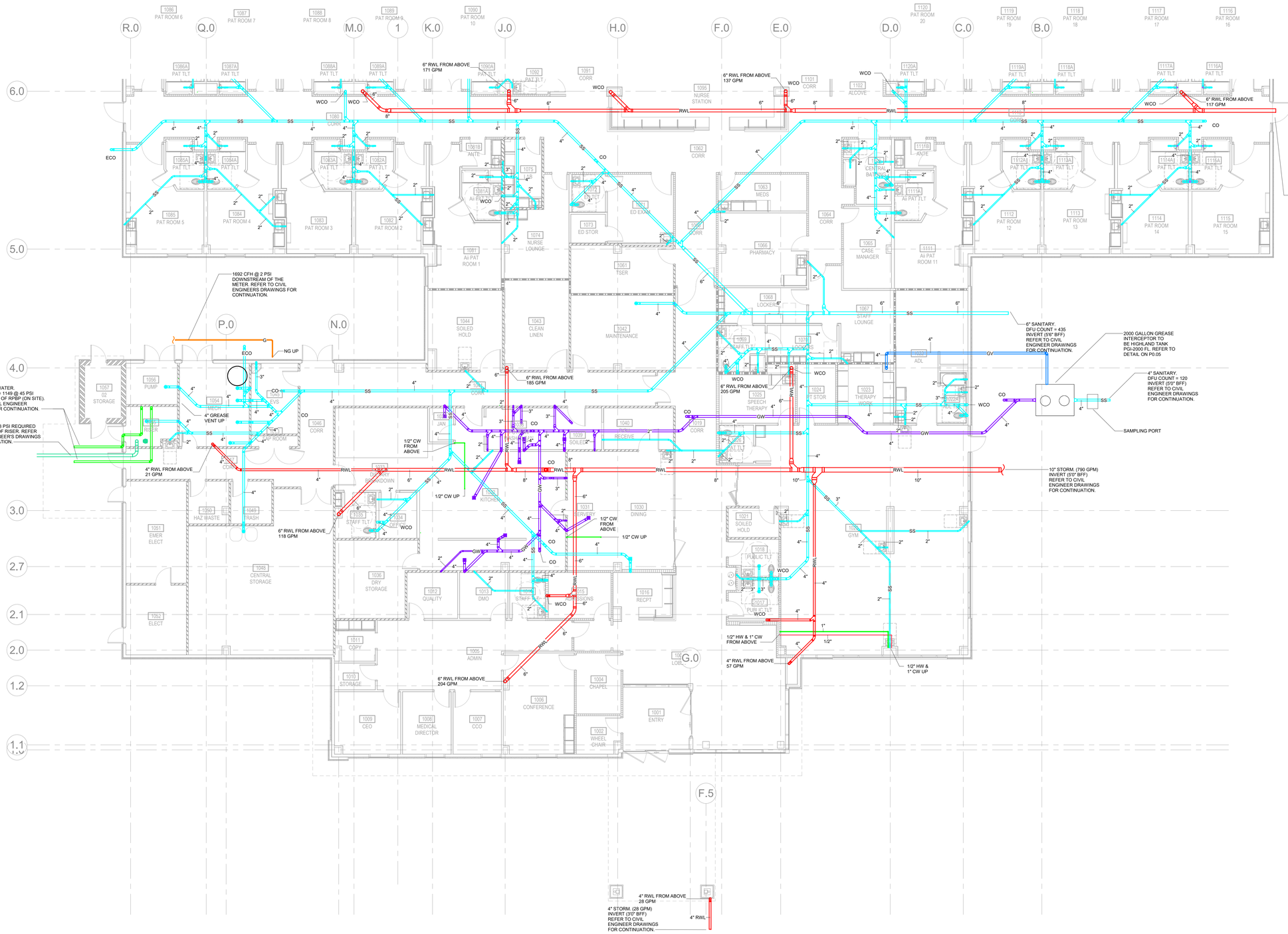
9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.



1 P1.01a PLUMBING - UNDERGROUND PLAN - AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictbomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

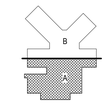
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P1.01a

UNDERGROUND - FLOOR PLAN - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" X 42" SHEETS

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

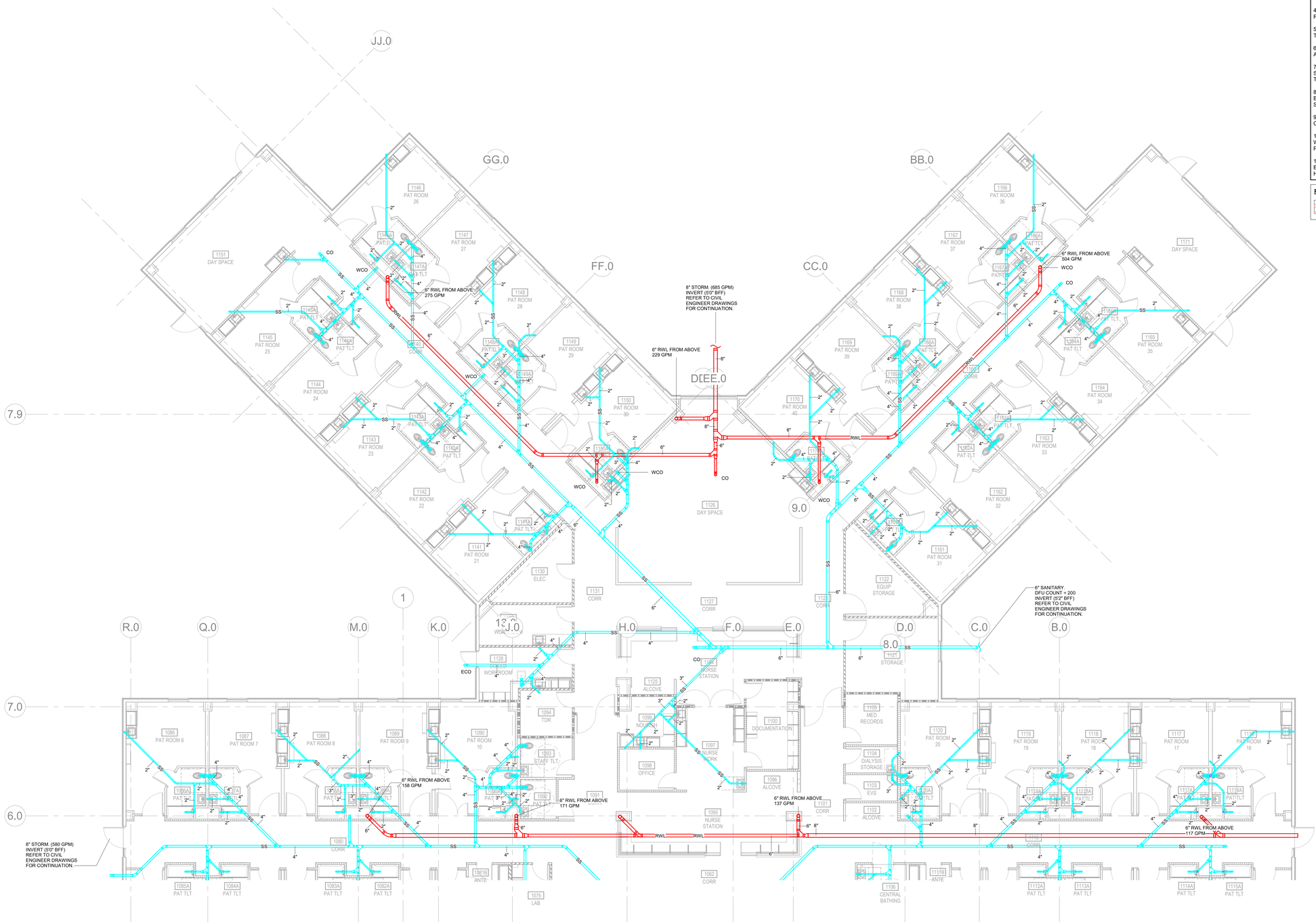
9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.



TRUE NORTH

PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

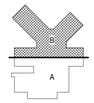
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H0/2125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

P1.01b

UNDERGROUND - FLOOR PLAN - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ONE HALF INCH AT 15" SHEETS

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

VTR NOTE

CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 25'-0" MIN. SEPARATION FROM ROOF TOP UNIT FRESH AIR INTAKE.

KITCHEN SANITARY KEYNOTES

1. 1 1/2" SS TO SERVE HAND SINK
2. 2" SS TO SERVE DISPOSER

1 P2.01a SANITARY - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

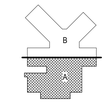
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

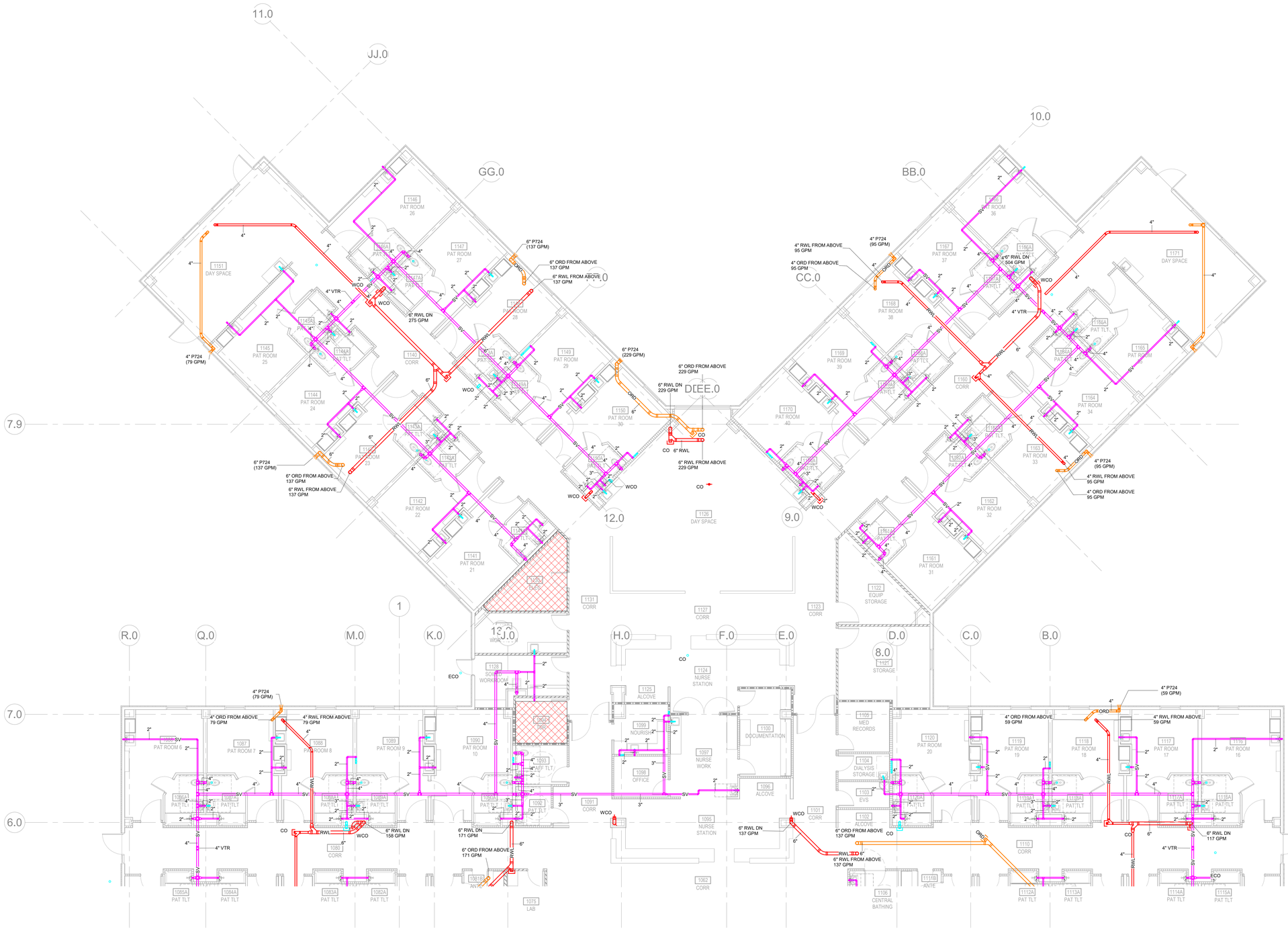
CURRENT:

SHEET TITLE AND NUMBER:

P2.01a

SANITARY - FLOOR PLAN - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 24" X 36" SHEETS



1 P2.01b SANITARY - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

VTR NOTE

CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 25'-0" MIN. SEPARATION FROM ROOF TOP UNIT FRESH AIR INTAKE.

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com
888.781.8441

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

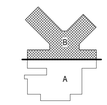
EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

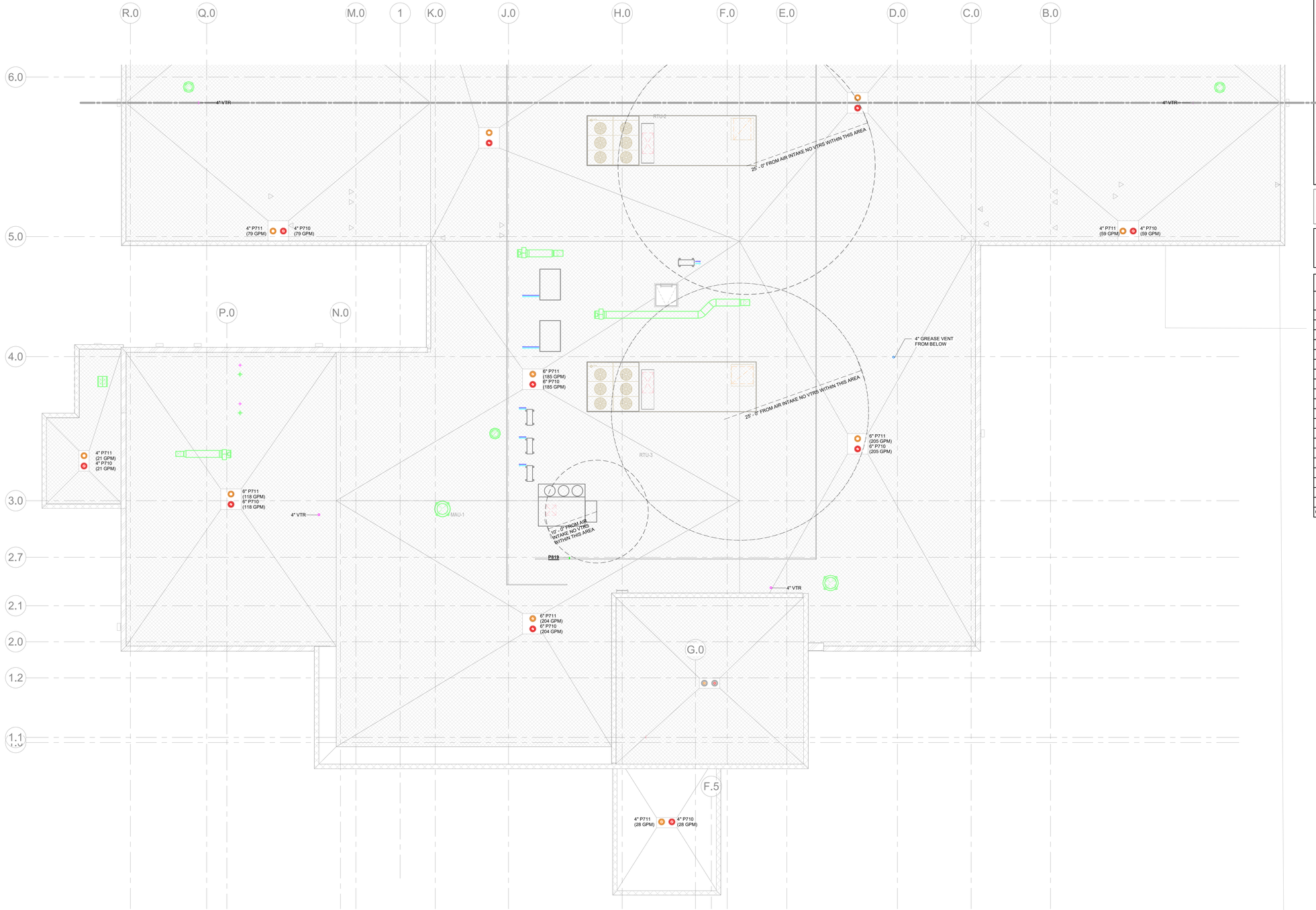
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P2.01b

SANITARY - FLOOR PLAN - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



1 P2.02a SANITARY - ROOF PLAN - AREA A
1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

VTR NOTE

CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 25'-0" MIN. SEPARATION FROM ROOF TOP UNIT FRESH AIR INTAKE.

Rainwater Drain

P NO.	Mark	Outlet Size	Flow	Size Check
P710	571	6	229.19 GPM	Correct
P710	557	6	204.89 GPM	Correct
P710	555	6	203.94 GPM	Correct
P710	590	6	185.45 GPM	Correct
P710	565	6	170.87 GPM	Correct
P710	578	6	137.25 GPM	Correct
P710		6	137.25 GPM	Correct
P710	567	6	136.67 GPM	Correct
P710	559	6	118.17 GPM	Correct
P710	573	4	94.5 GPM	Correct
P710		4	94.5 GPM	Correct
P710	563	4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710	569	4	58.5 GPM	Correct
P710		4	58.5 GPM	Correct
P710	584	4	56.84 GPM	Correct
P710	582	4	28.31 GPM	Correct
P710	561	4	21.11 GPM	Correct
Grand total			2250.9 GPM	

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
888.781.8441

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

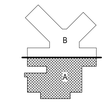
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

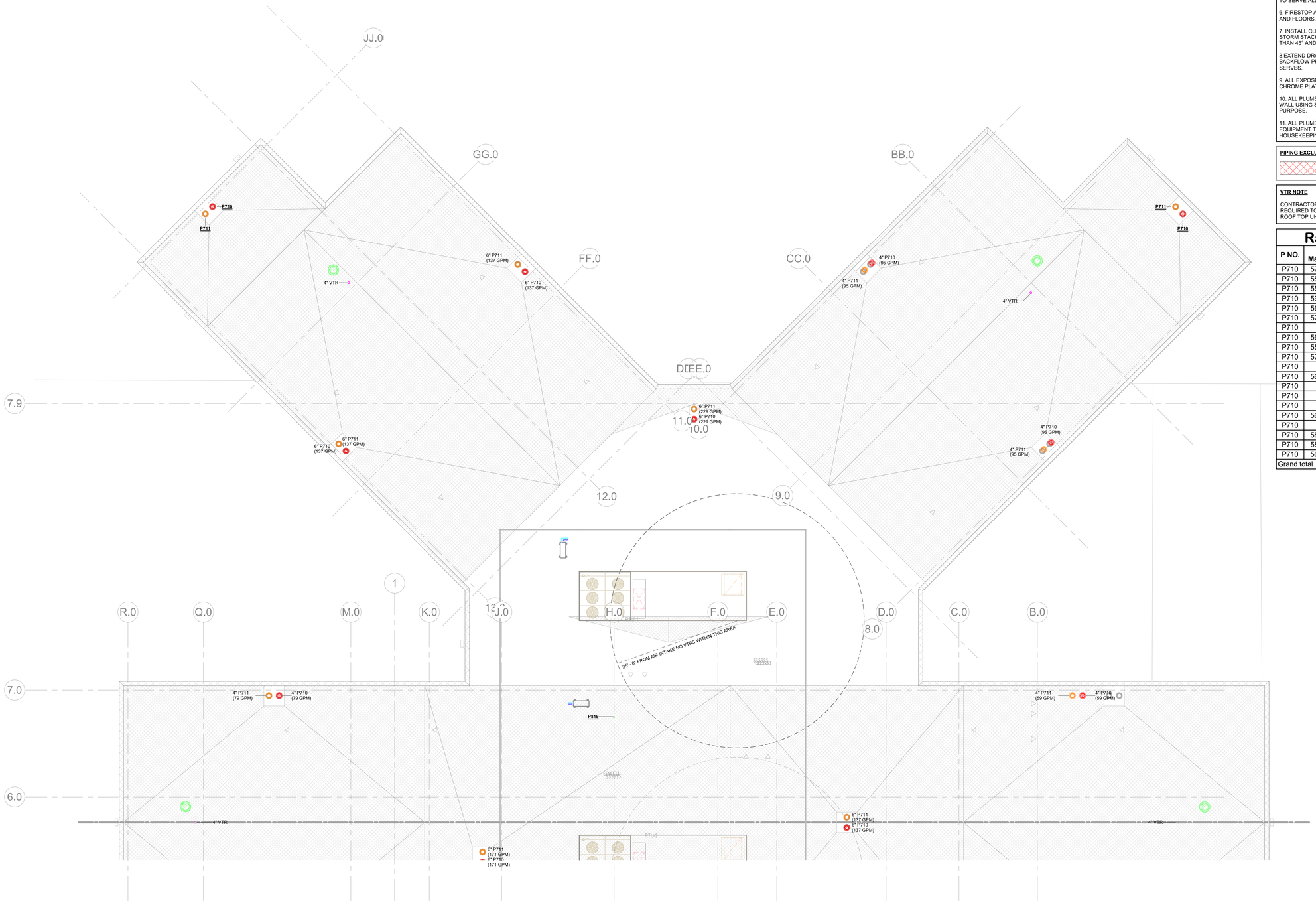
CURRENT:

SHEET TITLE AND NUMBER:

P2.02a

SANITARY - ROOF PLAN - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" SHEETS ORIGINAL PLOT SIZE



1 P2.02b SANITARY - ROOF PLAN - AREA B
1/8" = 1'-0"

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

VTR NOTE

CONTRACTOR SHALL OFFSET ALL VENTS THRU ROOF AS REQUIRED TO MAINTAIN 25'-0" MIN. SEPARATION FROM ROOF TOP UNIT FRESH AIR INTAKE.

Rainwater Drain

P NO.	Mark	Outlet Size	Flow	Size Check
P710	571	6	229.19 GPM	Correct
P710	557	6	204.89 GPM	Correct
P710	555	6	203.94 GPM	Correct
P710	590	6	185.45 GPM	Correct
P710	565	6	170.87 GPM	Correct
P710	578	6	137.25 GPM	Correct
P710		6	137.25 GPM	Correct
P710	567	6	136.67 GPM	Correct
P710	559	6	118.17 GPM	Correct
P710	573	4	94.5 GPM	Correct
P710		4	94.5 GPM	Correct
P710	563	4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710		4	78.75 GPM	Correct
P710	569	4	58.5 GPM	Correct
P710		4	58.5 GPM	Correct
P710	584	4	56.84 GPM	Correct
P710	582	4	28.31 GPM	Correct
P710	561	4	21.11 GPM	Correct
Grand total			2250.9 GPM	

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.229.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

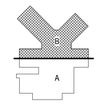
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

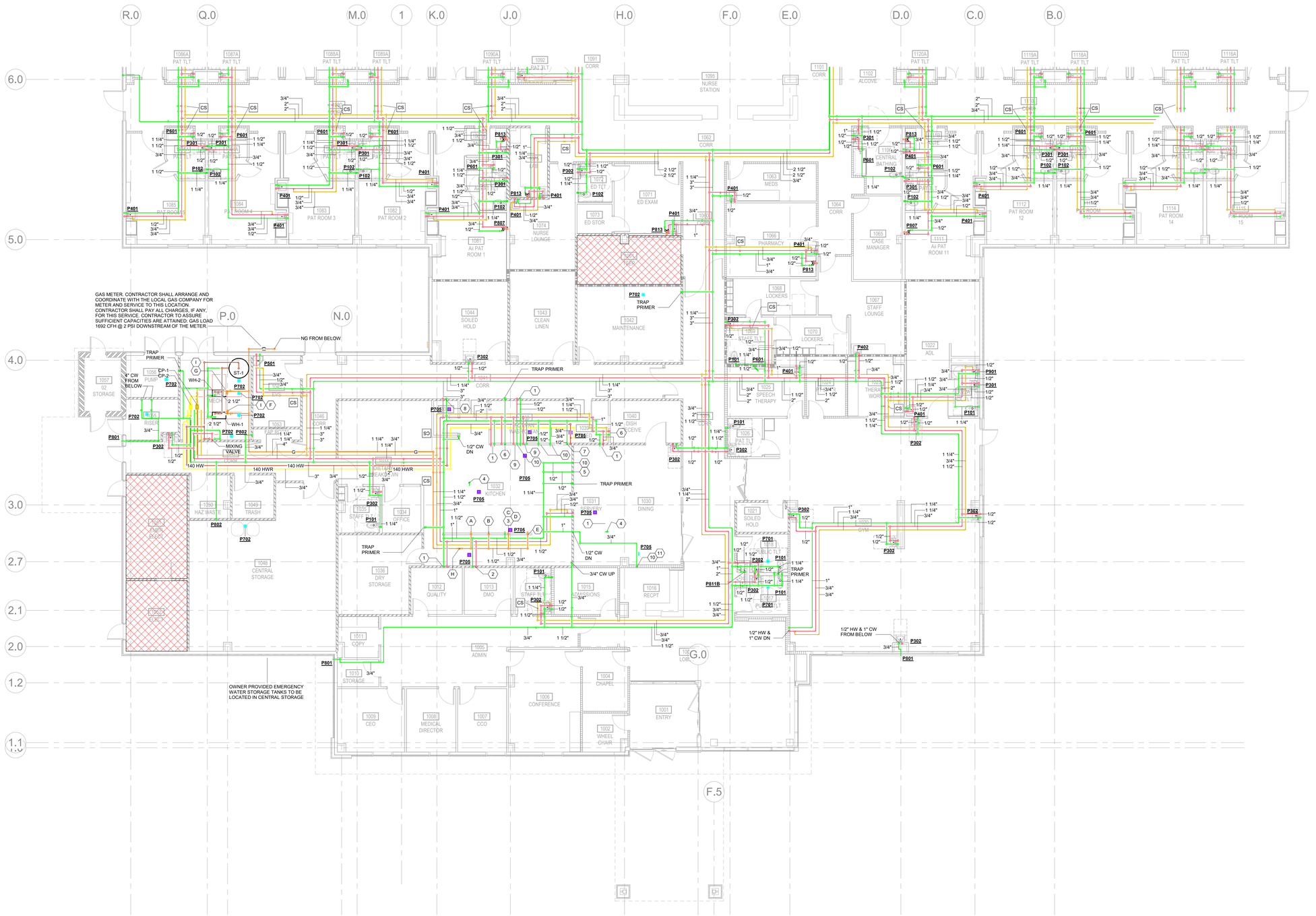
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

P2.02b

SANITARY - ROOF PLAN - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SCALE


GAS METER. CONTRACTOR SHALL ARRANGE AND COORDINATE WITH THE LOCAL GAS COMPANY FOR METER AND SERVICE TO THIS LOCATION. CONTRACTOR SHALL PAY ALL CHARGES, IF ANY, FOR THIS SERVICE. CONTRACTOR TO ASSURE SUFFICIENT CAPACITIES ARE ATTAINED. GAS LOAD 1692 CFH @ 2 PSI DOWNSTREAM OF THE METER.
NG FROM BELOW
TRAP PRIMER
4" CW FROM BELOW
CP-1
CP-2
PUMP
WH-2
ST-1
WH-1
MIXING VALVE
140 HW
140 HWR
1/2" CW DN
3/4" CW UP
1" CW DN
1 1/4" CW DN
1/2" HW & 1" CW FROM BELOW
OWNER PROVIDED EMERGENCY WATER STORAGE TANKS TO BE LOCATED IN CENTRAL STORAGE
1086A PAT TLT
1087A PAT TLT
1088A PAT TLT
1089A PAT TLT
1090A PAT TLT
1092 PAT TLT
1091 CORR
1095 NURSE STATION
1062 CORR
1101 CORR
1102 ALCOVE
1120A PAT TLT
1119A PAT TLT
1118A PAT TLT
1117A PAT TLT
1116A PAT TLT
1085 PAT ROOM 5
1084 PAT ROOM 4
1083 PAT ROOM 3
1082 PAT ROOM 2
1081 A/I PAT ROOM 1
1074 NURSE LOUNGE
1073 ED STOR
1072 ED TLT
1071 ED EXAM
1063 MEDS
1066 PHARMACY
1068 LOCKERS
1069 STAFF TLT
1070 LOCKERS
1067 STAFF LOUNGE
1042 MAINTENANCE
1044 SOILED HOLD
1043 CLEAN LINEN
1041 CORR
1040 DISH RECEIVE
1039 DISH
1031 PANTRY
1030 DINING
1032 KITCHEN
1035 STAFF BREAK RM
1034 OFFICE
1033 BREAK RM
1046 JANITOR
1045 JANITOR
1050 HAZ WASTE
1049 TRASH
1048 CENTRAL STORAGE
1036 DRY STORAGE
1012 QUALITY
1013 DMO
1015 ADMISSIONS
1016 RECPT
1011 COPY
1010 STORAGE
1005 ADMIN
1004 CHAPEL
1006 CONFERENCE
1009 CEO
1008 MEDICAL DIRECTOR
1007 CCO
1001 ENTRY
1002 WHEEL CHAIR
1021 SOILED HOLD
1018 PAT TLT
1017 PAT TLT
1022 ADL
1025 SPEECH THERAPY
1023 THERA WORK
1024 GYM
1112 PAT ROOM 12
1114 PAT ROOM 14
1115 PAT ROOM 15
1111 A/I PAT ROOM 11
1057 02 STORAGE
1052 ELEC
1053 ELEC
1054 ELEC
1055 ELEC
1056 ELEC
1058 ELEC
1059 ELEC
1060 ELEC
1061 ELEC
1064 CORR
1065 CASE MANAGER
1022 ADL
1100 CENTRAL BATHING
1101 CENTRAL BATHING
1103 CENTRAL BATHING
1104 CENTRAL BATHING
1105 CENTRAL BATHING
1106 CENTRAL BATHING
1107 CENTRAL BATHING
1108 CENTRAL BATHING
1109 CENTRAL BATHING
1110 CENTRAL BATHING
1111 CENTRAL BATHING
1112 CENTRAL BATHING
1113 CENTRAL BATHING
1114 CENTRAL BATHING
1115 CENTRAL BATHING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



1 P3.01b PLUMBING - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

SHUTOFF VALVE NOTE

PROVIDE SHUT-OFF VALVES AT ALL BRANCH LINES NEAR MAIN LINE CONNECTION.

THERMOSTATIC BALANCING VALVE LEGEND CS

THERMOSTATIC BALANCING VALVE TO BE THERMOMEGATECH CIRCUITSOLVER OR APPROVED EQUAL. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO ENSURE BALANCING VALVE IS INSTALLED IN THE DIRECTION OF FLOW.

WATER HAMMER ARRESTOR NOTE

PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES. WATER HAMMER ARRESTOR TO BE ZURN SERIES Z-1700 OR EQUAL. PROVIDE ACCESS TO ALL WATER HAMMER ARRESTORS THRU ACCESS PANELS, LAY IN CEILINGS, WALL IN CHASE.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments for Health, LLC

exalt health

RYAN

I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

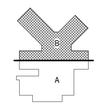
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

P3.01b

PLUMBING - FLOOR PLAN - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIENTATION: ALL SHEETS



1 P4.01a MEDICAL GAS - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH

PROJECT NORTH

GENERAL NEW CONSTRUCTION NOTES

1. CONTRACTOR SHALL PAY ALL FEES AND CHARGES REQUIRED TO ACHIEVE THE INSTALLATION.

2. CONTRACTOR SHALL LOCATE NEW EQUIPMENT AND ROUTE NEW PIPING TO AVOID CONFLICTS AND INTERFERENCES WITH FIELD CONDITIONS. FINAL COORDINATION WITH OTHER TRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED.

4.COORDINATE WITH GENERAL CONTRACTOR THE PATCHING OF FLOORS TO ACCOMMODATE NEW PIPING.

5. PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER TO SERVE ALL FLOOR DRAINS.

6. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS.

7. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

8.EXTEND DRAIN PIPING FROM REDUCED PRESSURE BACKFLOW PREVENTER TO FLOOR DRAIN THE RPBP SERVES.

9. ALL EXPOSED WATER PIPING IN FINISHED SPACES TO BE CHROME PLATED.

10. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

11. ALL PLUMBING, MEDICAL GAS AND FIRE PROTECTION EQUIPMENT TO BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD.

PIPING EXCLUSION ZONE LEGEND

NO PIPING OR EQUIPMENT NOT SERVING AREA ALLOWED ABOVE THIS AREA.

SHUTOFF VALVE NOTE

PROVIDE SHUT-OFF VALVES AT ALL BRANCH LINES NEAR MAIN LINE CONNECTION.

MEDICAL GAS CERTIFICATION NOTE

SYSTEM SHALL BE CERTIFIED BY AN INDEPENDENT THIRD-PARTY MEDICAL GAS TESTING AGENCY PRIOR TO USE OF THE SYSTEM. CERTIFIER MUST HAVE NITC CERTIFICATE AND STATE CERTIFICATION AS A MEDICAL GAS INSPECTOR. THE FIRE CODE OFFICIAL MUST BE PRESENT TO WITNESS ALL TESTING. COPIES OF CERTIFICATION TO BE PROVIDED TO THE FIRE CODE OFFICIAL.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

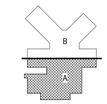
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

P4.01a

MEDICAL GAS - FLOOR PLAN - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL PLOT SIZE


JJ.0
GG.0
FF.0
DEE.0
CC.0
BB.0
7.9
11.0
10.0
12.0
9.0
1
13.0
J.0
8.0
R.0
Q.0
M.0
K.0
H.0
F.0
E.0
D.0
C.0
B.0
7.0
6.0
1146 PAT ROOM 26
1147 PAT ROOM 27
1148 PAT ROOM 28
1149 PAT ROOM 29
1150 PAT ROOM
1151 DAY SPACE
1145 PAT ROOM 25
1144 PAT ROOM 24
1143 PAT ROOM 23
1142 PAT ROOM 22
1141 PAT ROOM 21
1166 PAT ROOM 36
1167 PAT ROOM 37
1168 PAT ROOM 38
1169 PAT ROOM 39
1170 PAT ROOM
1171 DAY SPACE
1165 PAT ROOM 35
1164 PAT ROOM 34
1163 PAT ROOM 33
1162 PAT ROOM 32
1161 PAT ROOM
1126 DAY SPACE
1131 CORR
1127 CORR
1124 NURSE STATION
1125 ALCOVE
1128 SOILED WORKROOM
1122 EQUIP STORAGE
1121 STORAGE
1105 MED RECORDS
1104 DIALYSIS STORAGE
1103 EVS
1102 ALCOVE
1120 PAT ROOM 20
1119 PAT ROOM 19
1118 PAT ROOM 18
1117 PAT ROOM 17
1116 PAT ROOM 16
1110 CORR
1111B ANTE
1106 CENTRAL BATHING
1112A PAT TLT
1113A PAT TLT
1114A PAT TLT
1115A PAT TLT
1086 PAT ROOM 6
1087 PAT ROOM 7
1088 PAT ROOM 8
1089 PAT ROOM 9
1090 PAT ROOM 10
1093 STAFF TLT
1092 PAT TLT
1091 CORR
1099 NOURISH
1098 OFFICE
1100 DOCUMENTATION
1097 NURSE WORK
1096 ALCOVE
1095 NURSE STATION
1080 CORR
1081B ANTE
1075 LAB
1085A PAT TLT
1084A PAT TLT
1083A PAT TLT
1082A PAT TLT
1086A PAT TLT
1087A PAT TLT
1088A PAT TLT
1089A PAT TLT
1090A PAT TLT
1145A PAT TLT
1144A PAT TLT
1148A PAT TLT
1149A PAT TLT
1150A PAT TLT
1147A PAT TLT
1142A PAT TLT
1166A PAT TLT
1167A PAT TLT
1168A PAT TLT
1169A PAT TLT
1170A PAT TLT
1165A PAT TLT
1164A PAT TLT
1163A PAT TLT
1162A PAT TLT
1161A PAT TLT
1119A PAT TLT
1118A PAT TLT
1117A PAT TLT
1116A PAT TLT
1110A PAT TLT
1111A ANTE
1120A PAT TLT
1160 CORR
1170B PAT TLT
1163B PAT TLT
1125A ELEV
1126A ELEV
1127A ELEV
1128A ELEV
1129A ELEV
1130A ELEV
1131A ELEV
1132A ELEV
1133A ELEV
1134A ELEV
1135A ELEV
1136A ELEV
1137A ELEV
1138A ELEV
1139A ELEV
1140A ELEV
1141A ELEV
1142A ELEV
1143A ELEV
1144A ELEV

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ONE HALF INCH AT 11" X 17"

100% O.A. DX ROOFTOP UNIT

DESIGNATION	MAU-1
SERVICE	KITCHEN HOOD
MANUFACTURER	VALENT
MODEL	VX-212-25A-1-E2
APPR. UNIT SIZE (L"xW"xH")	109x69x74
APPR. UNIT WEIGHT (LBS)	4,200
TOTAL SUPPLY AIRFLOW (CFM)	3,100
FAN	
MOTOR POWER (HP)	2 @ 2
MOTOR RPM	1,627
INTERNAL S.P. (IN H2O)	0.32
EXTERNAL S.P. (IN H2O)	2.50
TOTAL S.P. (IN H2O)	2.82
VFD	YES
PRIMARY COIL	HEAT PUMP
COOLING PERFORMANCE	
TOTAL NET CAPACITY (MBH)	277
SENSIBLE NET CAPACITY (MBH)	139
E.A.T. DB/WB (ºF)	93/77
COIL L.A.T. DB/WB (ºF)	52.0/51.8
REFRIGERANT TYPE	R-454B
REFRIGERANT CHARGE (LBS)	72
HEATING PERFORMANCE	
TOTAL NET CAPACITY (MBH)	196
E.A.T. DB (ºF)	30.0
COIL L.A.T. DB (ºF)	80.0
HOT GAS REHEAT COIL CAPACITY (MBH)	153
AUX HEAT COIL	ELECTRIC
TOTAL CAPACITY (MBH)	154
MODE	EMERGENCY
ELECTRICAL	
EMERGENCY POWER	YES
VOLTAGE	480/3/60
FLA	63
MCA	79
MOCP	80
FILTERS	MERV-7

REMARKS:

1. PROVIDE STAINLESS STEEL DRAIN PAN.
2. PROVIDE WITH FULLY MODULATING COMPRESSOR(S).
3. PROVIDE FAN CYCLING HEAD PRESSURE CONTROL AND 20 SECOND TIME DELAY RELAYS.
4. PROVIDE 115 VOLT CONVENIENCE OUTLET WIRED OFF OF MAIN POWER TRANSFORMER.
5. CONTROL SHALL BE PROVIDED VIA FULLY DDC MICROPROCESSOR CONTROLLER WITH OUTSIDE AIR SENSOR, DISCHARGE TEMPERATURE SENSOR, DISCHARGE HUMIDITY SENSOR. THE CONTROLLER SHALL MODULATE COMPRESSOR OPERATION FOR COOLING, HEATING, AND HOT GAS REHEAT FOR DISCHARGE AIR DEWPOINT CONTROL.
6. PROVIDE CUSTOMER HAND HELD DISPLAY KEYPAD DIAGNOSTIC CONTROLLER TO BE UTILIZED FOR CUSTOMER INTERFACE.
7. FACTORY STARTUP SUPERVISION SHALL BE INCLUDED.
8. 5 YEAR COMPRESSOR PARTS WARRANTY.
9. PROVIDE PREMIUM EFFICIENCY MOTOR(S).
10. UNIT SHALL BE SINGLE POINT CONNECTION AND PROVIDED WITH DISCONNECT BY MANUFACTURER

SPLIT SYSTEM SCHEDULE

DESIGNATION	AC-1	AC-2	AC-3	AC-4	AC-5	AC-6
SERVICE	1052 ELECT.	1051 EM. ELECT.	1056 PUMP	1061 TSER	1094 TDR	1130 ELEC
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
INDOOR UNIT	AC-1	AC-2	AC-3	AC-4	AC-5	AC-6
AIRFLOW	920	920	920	385	385	920
UNIT CONFIGURATION	WALL CASSETTE	WALL CASSETTE	WALL CASSETTE	WALL CASSETTE	WALL CASSETTE	WALL CASSETTE
COOLING/HEATING CAPACITY (MBH)	36/40	36/40	36/40	12/20	12/20	36/40
ELECTRICAL	FROM CU-1	FROM CU-2	FROM CU-3	FROM CU-4	FROM CU-5	FROM CU-6
FILTER	THOWAWAY	THOWAWAY	THOWAWAY	THOWAWAY	THOWAWAY	THOWAWAY
OUTDOOR UNIT	CU-1	CU-2	CU-3	CU-4	CU-5	CU-6
COOLING/HEATING CAPACITY (MBH)	36/40	36/40	36/40	12/20	12/20	36/40
MAX AMBIENT DB (°F)	95	95	95	95	95	95
REFRIGERANT TYPE	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
ELECTRICAL						
TYPE	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY
VOLTAGE	208/1	208/1	208/1	208/1	208/1	208/1
MCA	34	34	34	16	16	34
MOCP	56	56	56	27	27	56
LINE SIZE (HOT GAS/LIQUID)	5/8" / 3/8"	5/8" / 3/8"	5/8" / 3/8"	1/2" / 1/4"	1/2" / 1/4"	5/8" / 3/8"

REMARKS:

1. PROVIDE INDOOR UNITS WITH PROGRAMMABLE THERMOSTAT.
2. INDOOR UNIT TO BE INTERLOCKED WITH FIRE ALARM SYSTEM TO SHUT DOWN UNIT WHEN ACTIVATED.
3. UNIT TO BE PROVIDED WITH CONNECTION TO HOSPITAL BAS.
4. UNIT SHALL HAVE SINGLE POINT POWER PROVIDED AT CONDENSING UNIT. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
5. PROVIDE EACH UNIT WITH AN INTEGRAL CONDENSATE PUMP WITH MINIMUM 26" LIFT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED INSTALLATION AND POWERING OF PUMPS NOT FACTORY INSTALLED AND WIRED. IF FACTORY INSTALLED CONDENSATE PUMP IS NOT AVAILABLE, PROVIDE 120/1 CONDENSATE LIFT PUMP EQUAL TO ASPEN MINI LIME.

DX ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU-1	RTU-2	RTU-3
MANUFACTURER	TRANE	TRANE	TRANE
SERVICE	PATIENT ROOMS	PATIENT ROOMS	ADMIN
LOCATION	ROOF	ROOF	ROOF
UNIT DIMENSIONS (L"xW"xH")	395x119x88	395x119x88	395x119x88
MAX. WEIGHT (LBS.)	14,000 lbs	14,000 lbs	14,000 lbs
SUPPLY DESIGN AIRFLOW (CFM)	13,000	13,000	17,000
RETURN DESIGN AIRFLOW (CFM)	10,400	8,500	13,800
O.A. DESIGN AIRFLOW (CFM)	2,600	4,500	3,200
O.A. OPERATING AIRFLOW (CFM)	2,250	4,500	3,075 / 3,825
AIR BLENDER	NO	NO	NO
AIR-SIDE ECONOMIZER	YES	YES	YES
SPECIAL CERTIFICATION	N/A	N/A	N/A
SUPPLY FAN			
OPERATING AIRFLOW (CFM)	11,425	12,600	16,700
T.S.P. (IN. W.G.)	3.45	3.64	3.77
E.S.P. (IN. W.G.)	2.50	2.50	2.50
DESIGN FAN RPM	1,397	1,419	1,469
MOTOR POWER (HP)	2 @ 15	2 @ 20	2 @ 20
MOTOR VOLTAGE	460/3/60	460/3/60	460/3/60
SYNCHRONOUS MOTOR RPM	1,500	1,500	1,600
RETURN FAN			
OPERATING AIRFLOW (CFM)	9,175	8,100	13,625 / 12,875
T.S.P. (IN. W.G.)	1.66	1.66	1.66
E.S.P. (IN. W.G.)	1.50	1.50	1.50
DESIGN FAN RPM	652	653	690
MOTOR POWER (HP)	1 @ 5	1 @ 5	1 @ 5
MOTOR VOLTAGE	480/3/60	480/3/60	480/3/60
SYNCHRONOUS MOTOR RPM	700	700	700
DX COOLING COIL			
MAX. F.V. (FT./MIN.)	500	500	500
MAX. A.P.D. (IN. W.G.)	1.0	1.0	1.0
E.A.T. DB/WB (°F)	76.2/67.1	79.5/70.3	76.8/67.8
L.A.T. DB/WB (°F)	52.0/51.8	52.0/51.8	52.0/51.8
TOTAL CAPACITY (MBH)	674	866	907
SENSIBLE NET CAPACITY (MBH)	349	422	456
REFRIGERANT TYPE	R-454B	R-454B	R-454B
COMPRESSOR			
QUANTITY	3	3	4
TYPE	SCROLL	SCROLL	SCROLL
AMBIENT TEMP (°F)	94	94	94
ELECTRICAL			
SUPPLY, RETURN, CONTROLS CIRCUIT	480/3/60	480/3/60	480/3/60
MCA	36	44	44
MOCP	40	50	50
POWER TYPE	EMERGENCY	EMERGENCY	EMERGENCY
COMPRESSOR, CONDENSER CIRCUIT	480/3/60	480/3/60	480/3/60
MCA	108	127	141
MOCP	125	150	175
POWER TYPE	NORMAL	NORMAL	NORMAL
PRE-FILTER			
EFFICIENCY RATING (MERV)	MERV-8	MERV-8	MERV-8
INITIAL A.P.D. (IN. W.G.)	0.10	0.10	0.10
FINAL A.P.D. (IN. W.G.)	0.60	0.60	0.60
FINAL FILTER			
EFFICIENCY RATING (MERV)	MERV-14	MERV-14	MERV-14
INITIAL A.P.D. (IN. W.G.)	0.35	0.35	0.35
FINAL A.P.D. (IN. W.G.)	1.35	1.35	1.35

REMARKS:

1. FANS TO BE SELECTED THAT OPERATE AT NO GREATER THAN 85% OF THEIR NAMEPLATE HORSEPOWER WITH DIRTY FILTERS AT THE OPERATING POINTS SCHEDULED ABOVE.
   A. FOR FAN SELECTIONS OVER 12,000 CFM, THE FAN ASSEMBLY SHALL BE PROVIDED WITH A MINIMUM OF TWO FANS AND THE QUANTITY AND MOTOR HORSEPOWER SELECTION SHALL BE SUCH THAT WITH ONE FAN DISABLED, THE FAN ASSEMBLY SHALL BE ABLE TO MAINTAIN 70% OF THE TOTAL AIRFLOW.
2. ALL FANS SHALL BE PROVIDED WITH VARIABLE FREQUENCY DRIVES HARDWIRED FROM THE FACTORY.
   A. FOR FAN ASSEMBLIES WITH ONLY ONE FAN VFD, THE ASSOCIATED VFD SHALL BE PROVIDED WITH A BYPASS.
   B. FOR FAN ASSEMBLIES PROVIDED WITH MORE THAN ONE FAN VFD, A MINIMUM OF TWO VFDS WITHOUT BYPASSES SHALL BE PROVIDED FOR THE FAN ASSEMBLY.
3. PROVIDE PLENUM LIGHTS IN FAN SECTIONS AND ALL ACCESS SECTIONS. ALL LIGHTS ARE TO BE PREWIRED INSIDE THE UNIT CASING FROM THE FACTORY TO JUNCTION BOXES ON THE OUTSIDE OF THE UNIT CASING. PROVIDE PLENUM LIGHTS ON ONE HOUR TIMER SWITCH.
4. ALL FILTERS TO BE ONE OF THE FOLLOWING SIZES: 12"x24", 20"x24", OR 24"x24". ALL FILTERS TO BE FRONT-LOAD TYPE.
5. SUPPLY AND RETURN FAN TO BE DIRECT DRIVE PLENUM TYPE. EACH FAN SHALL BE PROVIDED WITH A PIEZO TYPE AIR FLOW MEASURING STATION WITH PARAGON TRANSDUCER AS SPECIFIED. PROVIDE BACnet CONTROLS INTERFACE FOR EACH VFD AND AIRFLOW STATION.
6. DESIGN AIR FLOW QUANTITY SHALL BE USED FOR UNIT PERFORMANCE SELECTION. OPERATING FLOW INDICATES TOTAL CONNECTED AIRFLOW TO BE USED FOR SYSTEM BALANCING.
7. PROVIDE MAGNEHELIC GAUGE WITH CLEAN AND DIRTY INDICATION ACROSS ALL FILTER BANKS.
8. PROVIDE FAN BLANK-OFF PLATE AT EACH FAN ON MULTI-FAN UNITS SO THAT EACH FAN MAY BE INDEPENDENTLY SERVICED FOR MAINTENANCE.
9. PROVIDE SEPARATE STAINLESS STEEL DRAIN PAN UNDER EACH COOLING COIL SECTION.
10. UNIT MAX WEIGHT DOES NOT INCLUDE CURB.
11. PROVIDE ONE 480V CIRCUIT FOR SUPPLY FANS, RETURN FANS, AND CONTROLS, ONE 480V CIRCUIT FOR COMPRESSORS AND CONDENSERS, AND ONE 120V CIRCUIT FOR LIGHTS, AND CONVENIENCE OUTLET.

DUCT LEGEND

SUPPLY DUCT

EXHAUST DUCT

RETURN DUCT

OUTSIDE AIR DUCT

LEGEND

- RECTANGULAR DUCT TURNING DOWN
- ROUND DUCT TURNING DOWN
- BRANCH TAP OFF MAIN W/45º BOOT FITTING OR SPIN-IN FITTING W/ DAMPER (LOW PRESSURE)
- TRANSITION IN DUCT
- FD — FIRE DAMPER
- FSD — FIRE/SMOKE DAMPER
- DUCT TERMINATION
- 45º FULL RADIUS TURN
- SQUARE ELBOW W/TURNING VANES
- FULL RADIUS TURN
- AIRFLOW TO DUCT OR SIDEWALL AIR TERMINAL
- AIRFLOW AT LOUVER
- ROOM PRESSURE BALANCING AIRFLOW ARROW
- MVD — MANUAL VOLUME DAMPER
- SD — SMOKE DETECTOR
- AD — ACCESS DOOR
- AFF — ABOVE FINISHED FLOOR
- VFD — VARIABLE FREQUENCY DRIVE
- BAS — BUILDING AUTOMATION CONTROL SYSTEM
- (H) — LCD DISPLAY HUMIDITY SENSOR
- (T) — LCD DISPLAY THERMOSTAT
- (S) — LCD DISPLAY TEMPERATURE SENSOR
- CO — LCD DISPLAY CARBON MONOXIDE ALARM
- VAV — VARIABLE AIR VOLUME BOX
- EA 100 — INDICATES A SIZE "A" EXHAUST GRILLE SET FOR 100 CFM
- RB 200 — INDICATES A SIZE "B" RETURN GRILLE SET FOR 200 CFM
- SB 200 — INDICATES A SIZE "B" SUPPLY DIFFUSER SET FOR 200 CFM
- SUPPLY DIFFUSER (4-WAY)
- EXHAUST GRILLE
- RETURN GRILLE
- DSD — DUCT SMOKE DETECTOR
- CO2 — DUCT-MOUNTED CO2 SENSOR

PIPING LEGEND

- MCD — MOISTURE CONDENSATE DRAIN LINE
- PIPE SHUT OFF VALVE
- PIPE TURNING UP
- DIRECTION OF WATER FLOW
- TEE
- PIPE TURNING DOWN

SUPPLY DIFFUSER SCHEDULE

SYMBOL	ADAPTOR/ NECK SIZE	FACE SIZE	MAX CFM	MAX SP	MAX NC	THROW	DUCT RUNOUT SIZE
SA	6" Ø	24"x24"	110	0.05	12	4-WAY	8"x4"/6"Ø
SAA	6" Ø	12"x12"	110	0.05	12	4-WAY	8"x4"/6"Ø
SB	8" Ø	24"x24"	230	0.07	18	4-WAY	10"x6"/8"Ø
SBB	8" Ø	12"x12"	230	0.07	18	4-WAY	10"x6"/8"Ø
SC	10" Ø	24"x24"	420	0.07	22	4-WAY	12"x8"/10"Ø
SD	12" Ø	24"x24"	500	0.06	22	4-WAY	16"x8"/12"Ø
SE	14" Ø	24"x24"	650	0.07	25	4-WAY	18"x8"/14"Ø

PERFORMANCE BASIS:

1. 4-WAY CEILING DIFFUSERS BASED ON TITUS MODEL TMS ALL ALUMINUM DIFFUSERS WITH ROUND INLET. PROVIDE LAY-IN CEILING FRAME IN LAY-IN CEILING AREAS AND SURFACE MOUNTING FRAME IN HARD CEILING AREAS. PROVIDE 24"x24" MODULE IN LAY-IN CEILING AREAS.
2. CONTRACTOR TO PROVIDE DUCT SPIN-IN FITTING WITH MANUAL VOLUME DAMPER EQUAL TO FLEXMASTER CBD, FLEXMASTER STOD, OR APPROVED EQUAL FOR CIRCULAR DUCT AND STANDARD SIDE TAKEOFF WITH MANUAL VOLUME DAMPER FOR RECTANGULAR RUNOUT. SEE DETAIL.

RETURN & EXHAUST GRILLES SCHEDULE

SYMBOL	NECK	FACE	MAX CFM	MAX SP	MAX NC	DUCT RUNOUT SIZE
RA/EA	6" SQ	24"x24"	75	.04	20	8"x4"/6"Ø
RAA/EAA	6" SQ	12"x12"	75	.04	20	8"x4"/6"Ø
RB/EB	8" SQ	24"x24"	200	.06	20	10"x6"/8"Ø
RBB/EBB	8" SQ	12"x12"	200	.06	20	10"x6"/8"Ø
RC/EC	10" SQ	24"x24"	300	.06	20	14"x6"/10"Ø
RD/ED	12" SQ	24"x24"	540	.06	20	16"x8"/12"Ø
RE/EE	14" SQ	24"x24"	700	.06	20	18"x8"/14"Ø
RF/EF	18" SQ	24"x24"	1,250	.06	20	24"x10"/16"Ø
RG/EG	22" SQ	24"x24"	2,000	.08	20	24"x12"/18"Ø

PERFORMANCE BASIS:

1. RETURN/EXHAUST GRILLES BASED ON TITUS MODEL 50-F ALUMINUM EGG-CRATE GRILLE WITH 1/2"x1/2" CORE, SQUARE TO ROUND ADAPTER AND SURFACE MOUNTING FRAME.
2. CONTRACTOR TO PROVIDE DUCT SPIN-IN FITTING WITH MANUAL VOLUME DAMPER EQUAL TO FLEXMASTER CBD, FLEXMASTER STOD, OR APPROVED EQUAL FOR CIRCULAR DUCT AND STANDARD SIDE TAKEOFF WITH MANUAL VOLUME DAMPER FOR RECTANGULAR RUNOUT. SEE DETAIL.

APPLICABLE CODES & STANDARDS

MECHANICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS AS APPLICABLE:

- GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS (FGI, 2022 EDITION)
- FLORIDA BUILDING CODE (2023 EDITION)
- FLORIDA BUILDING CODE - MECHANICAL (2023 EDITION)
- FLORIDA BUILDING CODE - ENERGY CONSERVATION (2023 EDITION)
- NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2021 EDITION)
- NFPA 101 LIFESAFETY CODE (2021 EDITION)
- NFPA 99 STANDARD FOR HEALTH CARE FACILITIES (2021 EDITION)
- NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS (2021 EDITION)

DESIGN CRITERIA

DATA FROM ASHRAE FUNDAMENTALS 2025 (IP)

LOCATION: PANAMA CITY, FL

WEATHER STATION: PANAMA CITY, FL

SUMMER DESIGN CONDITIONS:
COOLING 0.4% DB/MCWB (°F): 92.8/76.8
EVAPORATION 0.4% WB/MCDB (°F): 81.4/87.0

WINTER DESIGN CONDITIONS:
HEATING 99.6% DB (°F): 31.8
HEATING 99% DB LESS 10 (°F): 25.7

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
888.781.8441

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.01

MECHANICAL - LEGENDS & SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ORIGINAL PLOT SIZE

FAN SCHEDULE

1 - CENTRIFUGAL DOWNBLAST 2 - UTILITY SET 3 - CENTRIFUGAL UPBLAST

DESIGNATION	EF-1-1	EF-1-2	TOTAL	EF-2-1	EF-2-2	EF-2-3	EF-2-4	TOTAL	EF-3-1	EF-3-2	TOTAL	KEF-1	DEF-1
MANUFACTURER	GREENHECK	GREENHECK		GREENHECK	GREENHECK	GREENHECK	GREENHECK		GREENHECK	GREENHECK		GREENHECK	GREENHECK
MODEL	G-120-VG	G-120-VG		G-120-VG	G-120-VG	USF-12-VG	USF-12-VG		G-200HP-VG	USF-6-VG		CUE-200HP-VG	CUE-090-VG
TYPE	1	1		1	1	2	2		1	2		3	3
SERVICE	GENERAL	GENERAL		GENERAL	GENERAL	ISOLATION	ISOLATION		GENERAL	HAZARDOUS		KITCHEN	DISHWASHER
MOUNTING TYPE	CURB	CURB		CURB	CURB	CURB	CURB		CURB	CURB		CURB	CURB
DRIVE TYPE	DIRECT	DIRECT		DIRECT	DIRECT	DIRECT	DIRECT		DIRECT	DIRECT		DIRECT	DIRECT
FAN													
OPERATING AIRFLOW (CFM)	1,000	1,250	2,250	1,525	1,425	775	775	4,500	2,150	525	2,675	3,850	400
S.P. (IN. W.C.)	0.50	0.75		0.75	0.75	0.50	0.50		1.00	0.50		2.00	0.50
DESIGN FAN RPM	1,145	1,416		1,583	1,519	1,325	1,325		959	1,379		1,449	1,458
MOTOR POWER (HP)	1/4	1/2		1/2	1/2	1/2	1/2		2	1/4		3	1/4
SYNCHRONOUS MOTOR RPM	1,200	1,725		1,725	1,725	1,770	1,770		1,140	1,770		1,560	1,725
ELECTRICAL													
VOLTAGE/PHASE (Φ)	120/1	120/1		120/1	120/1	120/1	120/1		480/3	120/1		480/3	120/1
EMERGENCY POWER	YES	YES		YES	YES	YES	YES		YES	YES		YES	YES
AHU INTERLOCK	RTU-1	RTU-1		RTU-2	RTU-2	NONE	NONE		RTU-3	RTU-3		MAU-1	RTU-3
ACCESSORIES													
INLET SCREEN	YES	YES		YES	YES	NONE	NONE		YES	NONE		NONE	YES
OUTLET SCREEN	NONE	NONE		NONE	NONE	YES	YES		NONE	YES		NONE	NONE
INLET DAMPER	BACKDRAFT	BACKDRAFT		BACKDRAFT	BACKDRAFT	NONE	NONE		BACKDRAFT	NONE		NONE	BACKDRAFT
OUTLET DAMPER	NONE	NONE		NONE	NONE	NONE	NONE		NONE	NONE		NONE	NONE
STARTER TYPE	ECM	ECM		ECM	ECM	ECM	ECM		ECM	ECM		ECM	ECM
SOUND (SONES)	10	15		15	15	10	10		15	10		25	10

REMARKS:

1. INSTALL EQUIPMENT SUPPORT RAIL OR ROOF CURB PER SPECIFICATIONS AND DETAILS.
2. SEE SPECIFICATIONS FOR ADDITIONAL ACCESSORIES.
3. FANS SERVING ISOLATION ROOMS TO BE ARRANGED TO DISCHARGE VERTICALLY MINIMUM 10'-0" ABOVE ROOF SURFACE. REFER TO DETAIL.
4. ALL FANS 1 HP OR LARGER TO BE PROVIDED WITH PREMIUM EFFICIENCY MOTOR.
5. EXHAUST FANS SERVING CYLINDER STORAGE AND MED GAS ROOMS SHALL HAVE EXPLOSION PROOF MOTORS AND DISCONNECTS.
6. FANS TO BE SELECTED THAT OPERATE AT NO GREATER THAN 85% OF THEIR NAMEPLATE HORSEPOWER AT THE OPERATING POINTS SCHEDULED ABOVE.
7. ALL FANS TO BE FLORIDA IMPACT RATED AND HAVE A CURRENT NOTICE OF ACCEPTANCE (NOA) FROM MIAMI DADE COUNTY. INCLUDE FACTORY INSTALLED LABEL INDICATING NOA RATING. BASIS OF DESIGN FANS TO BE ANCHORED TO CURB AND CURB TO STRUCTURE PER DETAILS ON NOA, SUBMIT INSTALLATION DETAILS WITHIN SUBMITTAL.

AIR BALANCE SCHEDULE

KITCHEN HOOD ON			
UNIT	SUPPLY CFM	RETURN CFM	EXHAUST CFM
RTU-1	11,425	9,175	0
EF-1-1	0	0	1,000
EF-1-2	0	0	1,250
RTU-2	12,600	8,100	0
EF-2-1	0	0	1,525
EF-2-2	0	0	1,425
EF-2-3	0	0	775
EF-2-4	0	0	775
RTU-3	16,700	12,875	0
MAU-1	3,100	0	0
KEF-1	0	0	3,850
DEF-1	0	0	400
EF-3-1	0	0	2,150
EF-3-2	0	0	525
TOTAL	43,825	30,150	13,675

KITCHEN HOOD OFF			
UNIT	SUPPLY CFM	RETURN CFM	EXHAUST CFM
RTU-1	11,425	9,175	0
EF-1-1	0	0	1,000
EF-1-2	0	0	1,250
RTU-2	12,600	8,100	0
EF-2-1	0	0	1,525
EF-2-2	0	0	1,425
EF-2-3	0	0	775
EF-2-4	0	0	775
RTU-3	16,700	13,625	0
MAU-1	0	0	0
KEF-1	0	0	0
DEF-1	0	0	400
EF-3-1	0	0	2,150
EF-3-2	0	0	525
TOTAL	40,725	30,900	9,825

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.02

MECHANICAL - SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

VARIABLE/CONSTANT VOLUME TERMINAL BOX SCHEDULE

MARK	DESIGN AIRFLOW (CFM)	MINIMUM COOLING (CFM)	MINIMUM HEATING (CFM)	UNOCCUPIED AIRFLOW (CFM)	DUCT RUNOUT SIZE	HEATING CAPACITY (kW)	VOLTAGE	EAT DB (°F)	LAT DB (°F)
RTU-1									
1-1	750	300	300	N/A	10"Ø	3.5	480/3/60	54	90
1-2	325	150	150	150	8"Ø	1.5	480/3/60	54	90
1-3	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-4	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-5	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-6	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-7	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-8	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-9	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-10	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-11	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-12	675	275	550	N/A	10"Ø	6.5	480/3/60	54	90
1-13	1,350	550	700	N/A	14"Ø	8.0	480/3/60	54	90
1-14	750	300	300	N/A	10"Ø	3.5	480/3/60	54	90
1-15	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-16	325	150	150	150	8"Ø	1.5	480/3/60	54	90
1-17	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-18	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-19	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-20	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-21	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-22	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-23	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-24	275	150	150	125	8"Ø	1.5	480/3/60	54	90
1-25	675	275	550	N/A	10"Ø	6.5	480/3/60	54	90
1-26	375	150	325	N/A	8"Ø	3.5	480/3/60	54	90
1-27	900	375	550	N/A	12"Ø	6.5	480/3/60	54	90
1-28	350	350	350	N/A	8"Ø	4.0	480/3/60	54	90
TOTAL	11,425	5,575	6,625			72.0			

NOTES:

1. ALL BOXES TO BE PRESSURE INDEPENDENT, 0.5" MAX AIR PRESSURE DROP, MAX NC RATING OF 35.
2. BASIS OF DESIGN IS JCI FOR TERMINAL BOXES. MINIMUM SETPOINTS SHALL BE NO LOWER THAN MANUFACTURER'S RECOMMENDED AIRFLOW FOR A GIVEN BOX SIZE IN ORDER TO MAINTAIN MINIMUM VELOCITY ACROSS AIRFLOW MEASUREMENT AND COIL. MINIMUMS ARE: 4"ø - 30 CFM, 6"ø - 55 CFM, 8"ø - 105 CFM, 10"ø - 165 CFM, 12"ø - 240 CFM, 14"ø - 335 CFM, 16"ø - 440 CFM. ADDITIONALLY, HEATING MINIMUM SETPOINTS SHALL PROVIDE A MINIMUM OF 70 CFM PER kW OF COIL RATING.
3. DUCT RUN-OUT SIZE DOES NOT MEAN INLET BOX SIZE. A TRANSITION MAY BE REQUIRED.
4. BOXES SHALL HAVE SINGLE POINT CONNECTION ON NORMAL POWER. DAMPERS SHALL FAIL IN LAST POSITION.

VARIABLE/CONSTANT VOLUME TERMINAL BOX SCHEDULE

MARK	DESIGN AIRFLOW (CFM)	MINIMUM COOLING (CFM)	MINIMUM HEATING (CFM)	UNOCCUPIED AIRFLOW (CFM)	DUCT RUNOUT SIZE	HEATING CAPACITY (kW)	VOLTAGE	EAT DB (°F)	LAT DB (°F)
RTU-2									
2-1	275	175	175	125	8"Ø	2.0	480/3/60	54	90
2-2	275	175	175	125	8"Ø	2.0	480/3/60	54	90
2-3	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-4	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-5	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-6	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-7	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-8	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-9	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-10	575	575	575	N/A	10"Ø	6.5	480/3/60	54	90
2-11	100	100	100	N/A	6"Ø	1.0	480/3/60	54	90
2-12	675	275	475	N/A	10"Ø	5.5	480/3/60	54	90
2-13	425	175	175	N/A	10"Ø	2.0	480/3/60	54	90
2-14	275	125	125	N/A	8"Ø	1.5	480/3/60	54	90
2-15	125	50	50	50	6"Ø	0.5	480/3/60	54	90
2-16	275	175	175	125	8"Ø	2.0	480/3/60	54	90
2-17	275	175	175	125	8"Ø	2.0	480/3/60	54	90
2-18	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-19	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-20	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-21	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-22	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-23	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-24	575	575	575	N/A	10"Ø	6.5	480/3/60	54	90
2-25	250	175	175	100	8"Ø	2.0	480/3/60	54	90
2-26	150	75	100	75	6"Ø	1.0	480/3/60	54	90
2-27	375	150	200	N/A	8"Ø	2.5	480/3/60	54	90
2-28	900	375	500	N/A	12"Ø	5.5	480/3/60	54	90
2-29	625	625	625	N/A	10"Ø	7.0	480/3/60	54	90
2-30	600	600	600	N/A	10"Ø	7.0	480/3/60	54	90
2-31	200	100	100	N/A	6"Ø	1.0	480/3/60	54	90
2-32	400	175	175	N/A	8"Ø	2.0	480/3/60	54	90
2-33	675	275	275	N/A	10"Ø	3.0	480/3/60	54	90
2-34	900	375	450	N/A	12"Ø	5.0	480/3/60	54	90
2-35	425	175	175	175	10"Ø	2.0	480/3/60	54	90
TOTAL	12,600	7,950	8,425			95.5			

NOTES:

1. ALL BOXES TO BE PRESSURE INDEPENDENT, 0.5" MAX AIR PRESSURE DROP, MAX NC RATING OF 35.
2. BASIS OF DESIGN IS JCI FOR TERMINAL BOXES. MINIMUM SETPOINTS SHALL BE NO LOWER THAN MANUFACTURER'S RECOMMENDED AIRFLOW FOR A GIVEN BOX SIZE IN ORDER TO MAINTAIN MINIMUM VELOCITY ACROSS AIRFLOW MEASUREMENT AND COIL. MINIMUMS ARE: 4"ø - 30 CFM, 6"ø - 55 CFM, 8"ø - 105 CFM, 10"ø - 165 CFM, 12"ø - 240 CFM, 14"ø - 335 CFM, 16"ø - 440 CFM. ADDITIONALLY, HEATING MINIMUM SETPOINTS SHALL PROVIDE A MINIMUM OF 70 CFM PER kW OF COIL RATING.
3. DUCT RUN-OUT SIZE DOES NOT MEAN INLET BOX SIZE. A TRANSITION MAY BE REQUIRED.
4. BOXES SHALL HAVE SINGLE POINT CONNECTION ON NORMAL POWER. DAMPERS SHALL FAIL IN LAST POSITION.

VARIABLE/CONSTANT VOLUME TERMINAL BOX SCHEDULE

MARK	DESIGN AIRFLOW (CFM)	MINIMUM COOLING (CFM)	MINIMUM HEATING (CFM)	UNOCCUPIED AIRFLOW (CFM)	DUCT RUNOUT SIZE	HEATING CAPACITY (kW)	VOLTAGE	EAT DB (°F)	LAT DB (°F)
RTU-3									
3-1	200	100	125	N/A	6"Ø	1.5	480/3/60	54	90
3-2	125	50	75	N/A	6"Ø	1.0	480/3/60	54	90
3-3	400	175	175	175	8"Ø	2.0	480/3/60	54	90
3-4	225	100	100	100	8"Ø	1.0	480/3/60	54	90
3-5	225	100	100	100	8"Ø	1.0	480/3/60	54	90
3-6	100	50	75	50	6"Ø	1.0	480/3/60	54	90
3-7	100	50	75	50	6"Ø	1.0	480/3/60	54	90
3-8	575	250	375	N/A	10"Ø	4.5	480/3/60	54	90
3-9	250	100	100	100	8"Ø	1.0	480/3/60	54	90
3-10	200	100	150	N/A	6"Ø	1.5	480/3/60	54	90
3-11	700	300	500	N/A	10"Ø	5.5	480/3/60	54	90
3-12	525	250	250	225	10"Ø	3.0	480/3/60	54	90
3-13	400	175	175	N/A	8"Ø	2.0	480/3/60	54	90
3-14	350	350	350	N/A	8"Ø	4.0	480/3/60	54	90
3-15	1,600	700	700	650	14"Ø	8.0	480/3/60	54	90
3-16	550	550	550	N/A	10"Ø	6.5	480/3/60	54	90
3-17	450	200	300	N/A	10"Ø	3.5	480/3/60	54	90
3-18	300	125	200	N/A	8"Ø	2.5	480/3/60	54	90
3-19	1,200	525	525	500	12"Ø	6.0	480/3/60	54	90
3-20	650	275	275	275	10"Ø	3.0	480/3/60	54	90
3-21	1,300	525	525	525	14"Ø	6.0	480/3/60	54	90
3-22	1,400	575	575	N/A	14"Ø	6.5	480/3/60	54	90
3-23	250	100	125	N/A	8"Ø	1.5	480/3/60	54	90
3-24	900	800	800	375	12"Ø	9.0	480/3/60	54	90
3-25	1,125	1,000	1,000	450	12"Ø	11.5	480/3/60	54	90
3-26	250	225	225	N/A	8"Ø	2.5	480/3/60	54	90
3-27	150	150	150	75	6"Ø	1.5	480/3/60	54	90
3-28	900	375	650	N/A	12"Ø	7.5	480/3/60	54	91
3-29	300	275	275	125	8"Ø	3.5	480/3/60	54	92
3-30	1,000	600	600	400	12"Ø	7.0	480/3/60	54	90
TOTAL	16,700	9,150	10,100			116.0			

NOTES:

1. ALL BOXES TO BE PRESSURE INDEPENDENT, 0.5" MAX AIR PRESSURE DROP, MAX NC RATING OF 35.
2. BASIS OF DESIGN IS JCI FOR TERMINAL BOXES. MINIMUM SETPOINTS SHALL BE NO LOWER THAN MANUFACTURER'S RECOMMENDED AIRFLOW FOR A GIVEN BOX SIZE IN ORDER TO MAINTAIN MINIMUM VELOCITY ACROSS AIRFLOW MEASUREMENT AND COIL. MINIMUMS ARE: 4"ø - 30 CFM, 6"ø - 55 CFM, 8"ø - 105 CFM, 10"ø - 165 CFM, 12"ø - 240 CFM, 14"ø - 335 CFM, 16"ø - 440 CFM. ADDITIONALLY, HEATING MINIMUM SETPOINTS SHALL PROVIDE A MINIMUM OF 70 CFM PER kW OF COIL RATING.
3. DUCT RUN-OUT SIZE DOES NOT MEAN INLET BOX SIZE. A TRANSITION MAY BE REQUIRED.
4. BOXES SHALL HAVE SINGLE POINT CONNECTION ON NORMAL POWER. DAMPERS SHALL FAIL IN LAST POSITION.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.03

MECHANICAL - SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCHITECTURAL SHEETS

SPACE DESIGN PARAMETERS

ROOM NUMBER(S)	ROOM NAME	ASHRAE FUNCTION OF SPACE	AREA (SF)	CEILING HEIGHT (FT)	ROOM VOL. (CF)	FGI 2022/ASHRAE 170-2021 REQUIREMENTS						ASHRAE 62.1 2019 REQUIREMENTS						DESIGN					
						MIN TOTAL ACH	MIN TOTAL (CFM)	MIN OACH	MIN OA (CFM)	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP	PEOPLE OA RATE (CFM/PERSON)	PEOPLE	PEOPLE OA (CFM)	AREA OA RATE (CFM/SF)	AREA OA (CFM)	TOTAL ASHRAE 62.1 OA (CFM)	SUPPLY AIR (CFM)	SUPPLY ACH	EXHAUST AIR (CFM)	EXHAUST ACH	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP
						RTU-1																	
1094	TDR	TELECOM EQUIPMENT ROOM	88	8.0	704	NR	NR	NR	NR	NR	POSITIVE	5	0	0	0.06	5	5	100	8.5	0	0.0	NO	POSITIVE
1121	STORAGE	OCCUPIABLE STORAGE	265	9.0	2,385	NR	NR	NR	NR	NR	NR	5	0	0	0.06	16	16	225	5.7	0	0.0	NO	NEUTRAL
1122	EQUIP STORAGE	OCCUPIABLE STORAGE	179	9.0	1,611	NR	NR	NR	NR	NR	NR	5	0	0	0.06	11	11	150	5.6	0	0.0	NO	NEUTRAL
1124, 1125	NURSE STATION	OFFICE	456	8.5	3,876	NR	NR	NR	NR	NR	NR	5	6	30	0.06	27	57	450	7.0	0	0.0	NO	NEUTRAL
1126	DAY SPACE	DAYROOM	1,096	9.0	9,864	NR	NR	NR	NR	NR	NR	5	12	60	0.06	66	126	900	5.5	0	0.0	NO	NEUTRAL
1128	SOILED WORK ROOM	SOILED HOLDING	150	9.0	1,350	10	225	2	45	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	150	6.7	250	11.1	YES	NEUTRAL
1129	CLEAN WORK ROOM	CLEAN WORK ROOM	135	9.0	1,215	4	81	2	41	NR	POSITIVE	N/A	N/A	N/A	N/A	N/A	N/A	100	4.9	0	0.0	NO	POSITIVE
1130	ELEC	ELECTRICAL ROOM	140	9.0	1,260	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	385	18.3	0	0.0	NO	NEUTRAL
1141	PAT ROOM 21	PATIENT ROOM	230	9.0	2,070	4	138	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1141A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1142	PAT ROOM 22	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1142A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1143	PAT ROOM 23	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1143A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1144	PAT ROOM 24	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1144A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1145	PAT ROOM 25	PATIENT ROOM	237	9.0	2,133	4	142	2	71	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.7	0	0.0	NO	NEUTRAL
1145A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1146	PAT ROOM 26	PATIENT ROOM	237	9.0	2,133	4	142	2	71	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	325	9.1	0	0.0	NO	NEUTRAL
1146A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1147	PAT ROOM 27	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1147A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1148	PAT ROOM 28	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1148A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1149	PAT ROOM 29	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1149A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1150	PAT ROOM 30	PATIENT ROOM	246	9.0	2,214	4	148	2	74	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.5	0	0.0	NO	NEUTRAL
1150A	PAT TLT	TOILET	62	8.0	496	10	83	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.1	YES	NEGATIVE
1151	DAY SPACE	DAYROOM	572	9.0	5,148	NR	NR	NR	NR	NR	NR	5	10	50	0.06	34	84	750	8.7	0	0.0	NO	NEUTRAL
1161	PAT ROOM 31	PATIENT ROOM	231	9.0	2,079	4	139	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.9	0	0.0	NO	NEUTRAL
1161A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1162	PAT ROOM 32	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1162A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1163	PAT ROOM 33	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1163A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1164	PAT ROOM 34	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1164A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1165	PAT ROOM 35	PATIENT ROOM	237	9.0	2,133	4	142	2	71	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.7	0	0.0	NO	NEUTRAL
1165A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1166	PAT ROOM 36	PATIENT ROOM	237	9.0	2,133	4	142	2	71	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	325	9.1	0	0.0	NO	NEUTRAL
1166A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1167	PAT ROOM 37	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1167A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1168	PAT ROOM 38	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1168A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1169	PAT ROOM 39	PATIENT ROOM	230	9.0	2,070	4	138	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	8.0	0	0.0	NO	NEUTRAL
1169A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1170	PAT ROOM 40	PATIENT ROOM	246	9.0	2,214	4	148	2	74	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.5	0	0.0	NO	NEUTRAL
1170A	PAT TLT	TOILET	62	8.0	496	10	83	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.1	YES	NEGATIVE
1171	DAY SPACE	DAYROOM	569	9.0	5,121	NR	NR	NR	NR	NR	NR	5	10	50	0.06	34	84	750	8.8	0	0.0	NO	NEUTRAL
	CORRIDOR	CORRIDOR	2,290	9.0	20,610	2	687	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	2,250	6.6	0	0.0	NO	NEUTRAL
RTU-1 TO SUPPLY A MINIMUM OF 2,250 CFM OA AT ALL TIMES.																		11,425		2,250			

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.04

MECHANICAL - SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH D SHEETS

SPACE DESIGN PARAMETERS

ROOM NUMBER(S)	ROOM NAME	ASHRAE FUNCTION OF SPACE	AREA (SF)	CEILING HEIGHT (FT)	ROOM VOL. (CF)	FGI 2022/ASHRAE 170-2021 REQUIREMENTS						ASHRAE 62.1 2019 REQUIREMENTS						DESIGN					
						MIN TOTAL ACH	MIN TOTAL (CFM)	MIN OACH	MIN OA (CFM)	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP	PEOPLE OA RATE (CFM/PERSON)	PEOPLE	PEOPLE OA (CFM)	AREA OA RATE (CFM/SF)	AREA OA (CFM)	TOTAL ASHRAE 62.1 OA (CFM)	SUPPLY AIR (CFM)	SUPPLY ACH	EXHAUST AIR (CFM)	EXHAUST ACH	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP
						RTU-2																	
1061	TSER	TELECOM EQUIPMENT ROOM	184	8.0	1,472	NR	NR	NR	NR	NR	POSITIVE	5	0	0	0.06	11	11	100	4.1	0	0.0	NO	POSITIVE
1063	MEDS	MEDICATION ROOM	125	9.0	1,125	4	75	2	38	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	400	21.3	0	0.0	NO	NEUTRAL
1065	CASE MANAGER	OFFICE	150	9.0	1,350	NR	NR	NR	NR	NR	NR	5	3	15	0.06	9	24	150	6.7	0	0.0	NO	NEUTRAL
1066	PHARMACY	PHARMACY	245	9.0	2,205	4	147	2	74	NR	POSITIVE	N/A	N/A	N/A	N/A	N/A	N/A	500	13.6	0	0.0	NO	POSITIVE
1067	STAFF LOUNGE	BREAK ROOM	219	9.0	1,971	NR	NR	NR	NR	NR	NR	5	3	15	0.12	26	41	325	9.9	0	0.0	NO	NEUTRAL
1068	LOCKER	LOCKER ROOM	122	9.0	1,098	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	0.5	61	61	150	8.2	75	4.1	YES	NEUTRAL
1069	STAFF TLT	TOILET	79	8.0	632	10	105	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	150	14.2	YES	NEGATIVE
1070	LOCKER	LOCKER ROOM	102	9.0	918	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	0.5	51	51	150	9.8	75	4.9	YES	NEUTRAL
1071	ED EXAM	EMERGENCY DEPARTMENT EXAM	175	9.0	1,575	6	158	2	53	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	9.5	0	0.0	NO	NEUTRAL
1072	ED TLT	TOILET	47	8.0	376	10	63	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	16.0	NO	NEGATIVE
1073	ED STOR	OCCUPIABLE STORAGE	39	9.0	351	NR	NR	NR	NR	NR	NR	5	0	0	0.06	2	2	75	12.8	0	0.0	NO	NEUTRAL
1074	NURSE LOUNGE	BREAK ROOM	204	9.0	1,836	NR	NR	NR	NR	NR	NR	5	5	25	0.12	24	49	275	9.0	0	0.0	NO	NEUTRAL
1075	LAB	LABORATORY	99	9.0	891	6	89	2	30	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	100	6.7	200	13.5	NO	NEGATIVE
1081	AII PAT ROOM 1	AII ROOM	278	9.0	2,502	12	500	2	83	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	475	11.4	550	13.2	YES	NEGATIVE
1081A	AII PAT TLT	TOILET	62	8.0	496	10	83	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	15.1	YES	NEGATIVE
1081B	ANTE	AII ANTE	45	9.0	405	10	68	NR	NR	YES	NR	N/A	N/A	N/A	N/A	N/A	N/A	100	14.8	100	14.8	YES	NEGATIVE
1082	PAT ROOM 2	PATIENT ROOM	228	9.0	2,052	4	137	2	68	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1082A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1083	PAT ROOM 3	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1083A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1084	PAT ROOM 4	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1084A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1085	PAT ROOM 5	PATIENT ROOM	257	9.0	2,313	4	154	2	77	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.1	0	0.0	NO	NEUTRAL
1085A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1086	PAT ROOM 6	PATIENT ROOM	256	9.0	2,304	4	154	2	77	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.2	0	0.0	NO	NEUTRAL
1086A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1087	PAT ROOM 7	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1087A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1088	PAT ROOM 8	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1088A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1089	PAT ROOM 9	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1089A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1090	PAT ROOM 10	PATIENT ROOM	265	9.0	2,385	4	159	2	80	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	6.3	0	0.0	NO	NEUTRAL
1090A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1092	PAT TLT	TOILET	50	8.0	400	10	67	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	15.0	YES	NEGATIVE
1093	STAFF TLT	TOILET	73	8.0	584	10	97	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	12.8	YES	NEGATIVE
1095	NURSE STATION	OFFICE	473	8.6	4,068	NR	NR	NR	NR	NR	NR	5	6	30	0.06	28	58	675	10.0	0	0.0	NO	NEUTRAL
1097	NURSE WORK	OFFICE	212	9.0	1,908	NR	NR	NR	NR	NR	NR	5	4	20	0.06	13	33	225	7.1	0	0.0	NO	NEUTRAL
1098	OFFICE	OFFICE	83	9.0	747	NR	NR	NR	NR	NR	NR	5	2	10	0.06	5	15	125	10.0	0	0.0	NO	NEUTRAL
1099	NOURISHMENT	NOURISHMENT AREA	96	9.0	864	2	29	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	200	13.9	0	0.0	NO	NEUTRAL
1100	DOCUMENTATION	OFFICE	166	9.0	1,494	NR	NR	NR	NR	NR	NR	5	3	15	0.06	10	25	200	8.0	0	0.0	NO	NEUTRAL
1103	EVS	JANITOR CLOSET	50	9.0	450	10	75	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	16.7	YES	NEGATIVE
1104	DIALYSIS STORAGE	OCCUPIABLE STORAGE	50	9.0	450	NR	NR	NR	NR	NR	NR	5	0	0	0.06	3	3	75	10.0	0	0.0	NO	NEUTRAL
1105	MED RECORDS	OFFICE	97	9.0	873	NR	NR	NR	NR	NR	NR	5	2	10	0.06	6	16	75	5.2	0	0.0	NO	NEUTRAL
1106	CENTRAL BATHING	BATHING ROOM	107	8.0	856	10	143	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	100	7.0	200	14.0	YES	NEGATIVE
1111	AII PAT ROOM 11	AII ROOM	278	9.0	2,502	12	500	2	83	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	475	11.4	550	13.2	YES	NEGATIVE
1111A	AII PAT TLT	TOILET	62	8.0	496	10	83	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	15.1	YES	NEGATIVE
1111B	ANTE	AII ANTE	45	9.0	405	10	68	NR	NR	YES	NR	N/A	N/A	N/A	N/A	N/A	N/A	100	14.8	100	14.8	YES	NEGATIVE
1112	PAT ROOM 12	PATIENT ROOM	228	9.0	2,052	4	137	2	68	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1112A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1113	PAT ROOM 13	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1113A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1114	PAT ROOM 14	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1114A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1115	PAT ROOM 15	PATIENT ROOM	257	9.0	2,313	4	154	2	77	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.1	0	0.0	NO	NEUTRAL
1115A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1116	PAT ROOM 16	PATIENT ROOM	256	9.0	2,304	4	154	2	77	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	275	7.2	0	0.0	NO	NEUTRAL
1116A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1117	PAT ROOM 17	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1117A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1118	PAT ROOM 18	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1118A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1119	PAT ROOM 19	PATIENT ROOM	229	9.0	2,061	4	137	2	69	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	7.3	0	0.0	NO	NEUTRAL
1119A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
1120	PAT ROOM 20	PATIENT ROOM	268	9.0	2,412	4	161	2	80	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	6.2	0	0.0	NO	NEUTRAL
1120A	PAT TLT	TOILET	61	8.0	488	10	81	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	12.3	YES	NEGATIVE
	CORRIDOR	CORRIDOR	2,840	9.0	25,560	2	852	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	2,700	6.3	0	0.0	NO	NEUTRAL
RTU-2 TO SUPPLY A MINIMUM OF 4,500 CFM OA AT ALL TIMES.																		12,600		4,500			

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
888.781.8441

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.05

MECHANICAL - SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH SHEETS

SPACE DESIGN PARAMETERS

ROOM NUMBER(S)	ROOM NAME	ASHRAE FUNCTION OF SPACE	AREA (SF)	CEILING HEIGHT (FT)	ROOM VOL. (CF)	FGI 2022/ASHRAE 170-2021 REQUIREMENTS						ASHRAE 62.1 2019 REQUIREMENTS						DESIGN					
						MIN TOTAL ACH	MIN TOTAL (CFM)	MIN OACH	MIN OA (CFM)	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP	PEOPLE OA RATE (CFM/PERSON)	PEOPLE	PEOPLE OA (CFM)	AREA OA RATE (CFM/SF)	AREA OA (CFM)	TOTAL ASHRAE 62.1 OA (CFM)	SUPPLY AIR (CFM)	SUPPLY ACH	EXHAUST AIR (CFM)	EXHAUST ACH	EXHAUST DIRECTLY TO OUTDOORS	PRESSURE RELATIONSHIP
						RTU-3																	
1001	ENTRY	CORRIDOR	170	11.0	1,870	2	62	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	250	8.0	0	0.0	NO	NEUTRAL
1002	WHEEL CHAIR	OCCUPIABLE STORAGE	62	9.0	558	NR	NR	NR	NR	NR	NR	5	0	0	0.06	4	4	75	8.1	0	0.0	NO	NEUTRAL
1003	LOBBY	CORRIDOR	800	19.0	15,200	2	507	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	1,400	5.5	0	0.0	NO	NEUTRAL
1004	CHAPEL	RELIGIOUS WORSHIP	105	9.0	945	NR	NR	NR	NR	NR	NR	5	4	20	0.06	6	26	125	7.9	0	0.0	NO	NEUTRAL
1005	ADMIN	OPEN OFFICE	414	9.0	3,726	NR	NR	NR	NR	NR	NR	5	6	30	0.06	25	55	400	6.4	0	0.0	NO	NEUTRAL
1006	CONFERENCE	CONFERENCE	272	9.0	2,448	NR	NR	NR	NR	NR	NR	5	6	30	0.06	16	46	400	9.8	0	0.0	NO	NEUTRAL
1007	CCO	OFFICE	116	9.0	1,044	NR	NR	NR	NR	NR	NR	5	2	10	0.06	7	17	225	12.9	0	0.0	NO	NEUTRAL
1008	MEDICAL DIRECTOR	OFFICE	117	9.0	1,053	NR	NR	NR	NR	NR	NR	5	2	10	0.06	7	17	225	12.8	0	0.0	NO	NEUTRAL
1009	CEO	OFFICE	156	9.0	1,404	NR	NR	NR	NR	NR	NR	5	2	10	0.06	9	19	250	10.7	0	0.0	NO	NEUTRAL
1010	STORAGE	OCCUPIABLE STORAGE	42	9.0	378	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	75	11.9	0	0.0	NO	POSITIVE
1011	COPY	OFFICE	59	9.0	531	NR	NR	NR	NR	NR	NR	5	2	10	0.06	4	14	100	11.3	0	0.0	NO	POSITIVE
1012	QUALITY	OFFICE	90	9.0	810	NR	NR	NR	NR	NR	NR	5	1	5	0.06	5	10	100	7.4	0	0.0	NO	NEUTRAL
1013	DMO	OFFICE	85	9.0	765	NR	NR	NR	NR	NR	NR	5	1	5	0.06	5	10	100	7.8	0	0.0	NO	NEUTRAL
1014	STAFF TLT	TOILET	61	9.0	549	10	92	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	13.7	YES	NEGATIVE
1015	ADMISSION	OFFICE	111	9.0	999	NR	NR	NR	NR	NR	NR	5	3	15	0.06	7	22	125	7.5	0	0.0	NO	NEUTRAL
1016	RECEPTION	OFFICE	109	9.0	981	NR	NR	NR	NR	NR	NR	5	3	15	0.06	7	22	225	13.8	0	0.0	NO	NEUTRAL
1017	PUBLIC TOILET	TOILET	66	8.0	528	10	88	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	150	17.0	YES	NEGATIVE
1018	PUBLIC TOILET	TOILET	65	8.0	520	10	87	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	150	17.3	YES	NEGATIVE
1019	CORRIDOR	CORRIDOR	518	9.0	4,662	2	155	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	675	8.7	0	0.0	NO	NEUTRAL
1020	GYM	PHYSICAL THERAPY	1,728	9.5	16,416	6	1,642	2	547	NR	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	2,025	7.4	0	0.0	NO	NEUTRAL
1021	SOILED HOLD	SOILED HOLDING	57	9.0	513	10	86	2	17	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	100	11.7	YES	NEGATIVE
1022	ADL	PHYSICAL THERAPY	353	9.0	3,177	6	318	2	106	NR	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	300	5.7	0	0.0	NO	NEGATIVE
1023	THERAPY WORK	PHYSICAL THERAPY	124	9.0	1,116	6	112	2	37	NR	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	150	8.1	0	0.0	NO	NEUTRAL
1024	PT STOR	OCCUPIABLE STORAGE	87	8.0	696	NR	NR	NR	NR	NR	NR	5	0	0	0.06	5	5	100	8.6	0	0.0	NO	NEUTRAL
1025	SPEECH THERAPY	OFFICE	142	9.0	1,278	NR	NR	NR	NR	NR	NR	5	3	15	0.06	9	24	150	7.0	0	0.0	NO	POSITIVE
1026	PAT TLT	TOILET	48	9.0	432	10	72	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	17.4	YES	NEGATIVE
1030	DINING	DAYROOM	317	9.0	2,853	NR	NR	NR	NR	NR	NR	5	10	50	0.06	19	69	1,300	27.3	0	0.0	NO	POSITIVE
1031	SERVERY	FOOD PREPARATION CENTER	164	9.0	1,476	10	246	2	49	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	650	26.4	0	0.0	NO	POSITIVE
1032	KITCHEN	FOOD PREPARATION CENTER	889	9.0	8,001	10	1,334	2	267	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	2,800	21.0	0	0.0	NO	POSITIVE
1033	DIETARY BREAKDOWN	OCCUPIABLE STORAGE	107	9.0	963	NR	NR	NR	NR	NR	NR	5	1	5	0.06	6	11	400	24.9	0	0.0	NO	NEUTRAL
1034	OFFICE	OFFICE	67	9.0	603	NR	NR	NR	NR	NR	NR	5	1	5	0.06	4	9	125	12.4	0	0.0	NO	NEUTRAL
1035	STAFF TLT	TOILET	66	8.0	528	10	88	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	125	14.2	YES	NEGATIVE
1036	DRY STORAGE	OCCUPIABLE STORAGE	225	9.0	2,025	NR	NR	NR	NR	NR	NR	5	0	0	0.06	14	14	200	5.9	0	0.0	NO	NEUTRAL
1037	JANITOR	JANITOR CLOSET	32	8.0	256	10	43	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	75	17.6	YES	NEGATIVE
1038, 1039	POT/PAN WASH/CLEAN	WARE WASHING	186	9.0	1,674	10	279	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	500	17.9	800	28.7	YES	NEGATIVE
1040	DISH RECEIVE	WARE WASHING	112	9.0	1,008	10	168	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	500	29.8	500	29.8	YES	NEGATIVE
1041, 1047	CORRIDOR	CORRIDOR	823	9.0	7,407	2	247	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	625	5.1	0	0.0	NO	NEUTRAL
1042	MAINTAINENCE	OCCUPIABLE STORAGE	293	9.0	2,637	NR	NR	NR	NR	NR	NR	5	0	4	0.06	18	22	300	6.8	0	0.0	NO	NEUTRAL
1043	CLEAN LINEN	CLEAN LINEN STORAGE	221	9.0	1,989	2	66	NR	NR	NR	POSITIVE	N/A	N/A	N/A	N/A	N/A	N/A	250	7.5	0	0.0	NO	POSITIVE
1044	SOILED HOLD	SOILED HOLDING	222	9.0	1,998	10	333	2	67	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	300	9.0	400	12.0	YES	NEGATIVE
1045	EVS	JANITOR CLOSET	127	9.0	1,143	10	191	NR	NR	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	125	6.6	225	11.8	YES	NEGATIVE
1048	CENTRAL STORAGE	OCCUPIABLE STORAGE	801	9.0	7,209	NR	NR	NR	NR	NR	NR	5	0	0	0.06	48	48	700	5.8	0	0.0	NO	NEUTRAL
1049	TRASH	HAZARDOUS MATERIAL STORAGE	67	9.0	603	10	101	2	20	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	150	14.9	YES	NEGATIVE
1050	HAZ WASTE	HAZARDOUS MATERIAL STORAGE	64	9.0	576	10	96	2	19	YES	NEGATIVE	N/A	N/A	N/A	N/A	N/A	N/A	0	0.0	150	15.6	YES	NEGATIVE
1051	EMERGENCY ELEC	ELECTRICAL ROOM	237	9.0	2,133	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	920	25.9	0	0.0	NO	NEUTRAL
1052	ELEC	ELECTRICAL ROOM	162	9.0	1,458	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A	N/A	N/A	N/A	920	37.9	0	0.0	NO	NEUTRAL
1053	FAP ROOM	OCCUPIABLE STORAGE	20	9.0	180	NR	NR	NR	NR	NR	NR	5	0	0	0.06	1	1	50	16.7	0	0.0	NO	NEUTRAL
1054	MECH	OCCUPIABLE STORAGE	224	9.0	2,016	NR	NR	NR	NR	NR	NR	5	0	0	0.06	13	13	400	11.9	0	0.0	NO	NEUTRAL
1056	PUMP	OCCUPIABLE STORAGE	82	9.0	738	NR	NR	NR	NR	NR	NR	5	0	0	0.06	5	5	920	74.8	0	0.0	NO	NEUTRAL
RTU-3 TO SUPPLY A MINIMUM OF 3,075 CFM OA AT ALL TIMES.																		16,700		3,075			

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

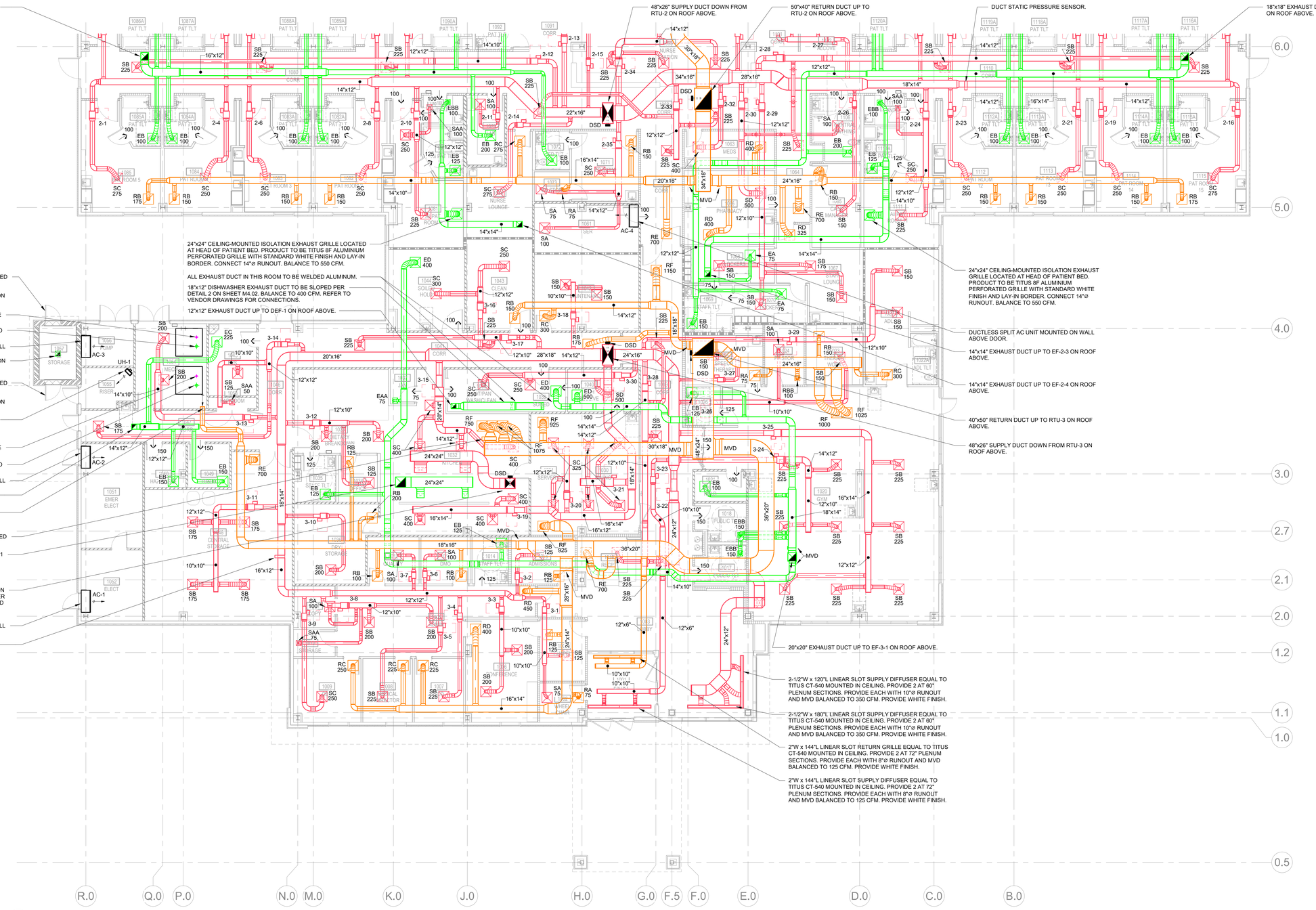
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M0.06

MECHANICAL - SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 X 42 SHEETS ONE INCH LONG AT 24 X 36 SHEETS



1 M1.01a HVAC - LEVEL 1 - AREA A
1/8" = 1'-0"

NEW CONSTRUCTION NOTES:

1. ALL DUCT AND PIPE TO BE INSTALLED AT A MINIMUM OF 6" CLEAR TO RATED WALLS TO ALLOW FOR INSPECTION OF PARTITION ASSEMBLIES. ALL UTILITIES SHALL BE LOCATED SO THAT ACCESS IS MAINTAINED TO ADJACENT WALL SURFACES AND TO ALL ACESS DOORS.
2. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE AROUND ELECTRIC VAV BOXES. MAINTAIN A MINIMUM OF 42" AROUND ELECTRIC VAV BOXES.
3. 1057 O2 STORAGE ROOM IS DESIGNED TO CONTAIN 2,244 CUBIC FEET OF OXYGEN PER PLUMBING DRAWINGS. PER NFPA-99, ONE OPENING WITHIN 1 FOOT OF THE FLOOR AND ONE OPENING WITHIN 1 FOOT OF THE CEILING IS REQUIRED, EACH SIZED AT A MINIMUM FREE AREA OF 24 SQUARE INCHES PER 1,000 CUBIC FEET OF FLUID STORAGE SHALL BE PROVIDED AND EACH OPENING SHALL BE NO LESS THAN 72 SQUARE INCHES FREE AREA. EACH DOOR LOUVER IS SIZED AT 144 SQUARE INCHES 8 INCHES FROM THE FLOOR AND THE NATURAL VENTILATION HOOD OPENING IN THE CEILING IS SIZED AT 144 SQUARE INCHES.
4. DUCT FIRE DAMPERS AT RATED WALLS ARE OMITTED FROM THIS PROJECT, WHICH SHALL BE CONSTRUCTED IN COMPLIANCE WITH 2023 FLORIDA MECHANICAL CODE SECTION 607.5.2 "FIRE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF FIRE BARRIERS WHERE ANY OF THE FOLLOWING APPLY" EXCEPTION 3:

   "SUCH WALLS ARE PENETRATED BY FULLY DUCTED HVAC SYSTEMS, HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXCEPTION, A FULLY DUCTED HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE [0.0217 INCH (0.55 MM)] THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS. FLEXIBLE AIR CONNECTORS SHALL BE PERMITTED IN A FULLY DUCTED SYSTEM, LIMITED TO THE FOLLOWING INSTALLATIONS:

   NONMETALLIC FLEXIBLE CONNECTIONS THAT CONNECT A DUCT TO AN AIR HANDLING UNIT OR EQUIPMENT LOCATED WITHIN A MECHANICAL ROOM IN ACCORDANCE WITH SECTION 603.9.

   NONMETALLIC FLEXIBLE AIR CONNECTORS IN ACCORDANCE WITH SECTION 603.6.2 THAT CONNECT AN OVERHEAD METAL DUCT TO A CEILING DIFFUSER WHERE THE METAL DUCT AND CEILING DIFFUSER ARE LOCATED WITHIN THE SAME ROOM."

TRUE NORTH / PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 811.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

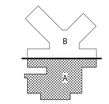
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

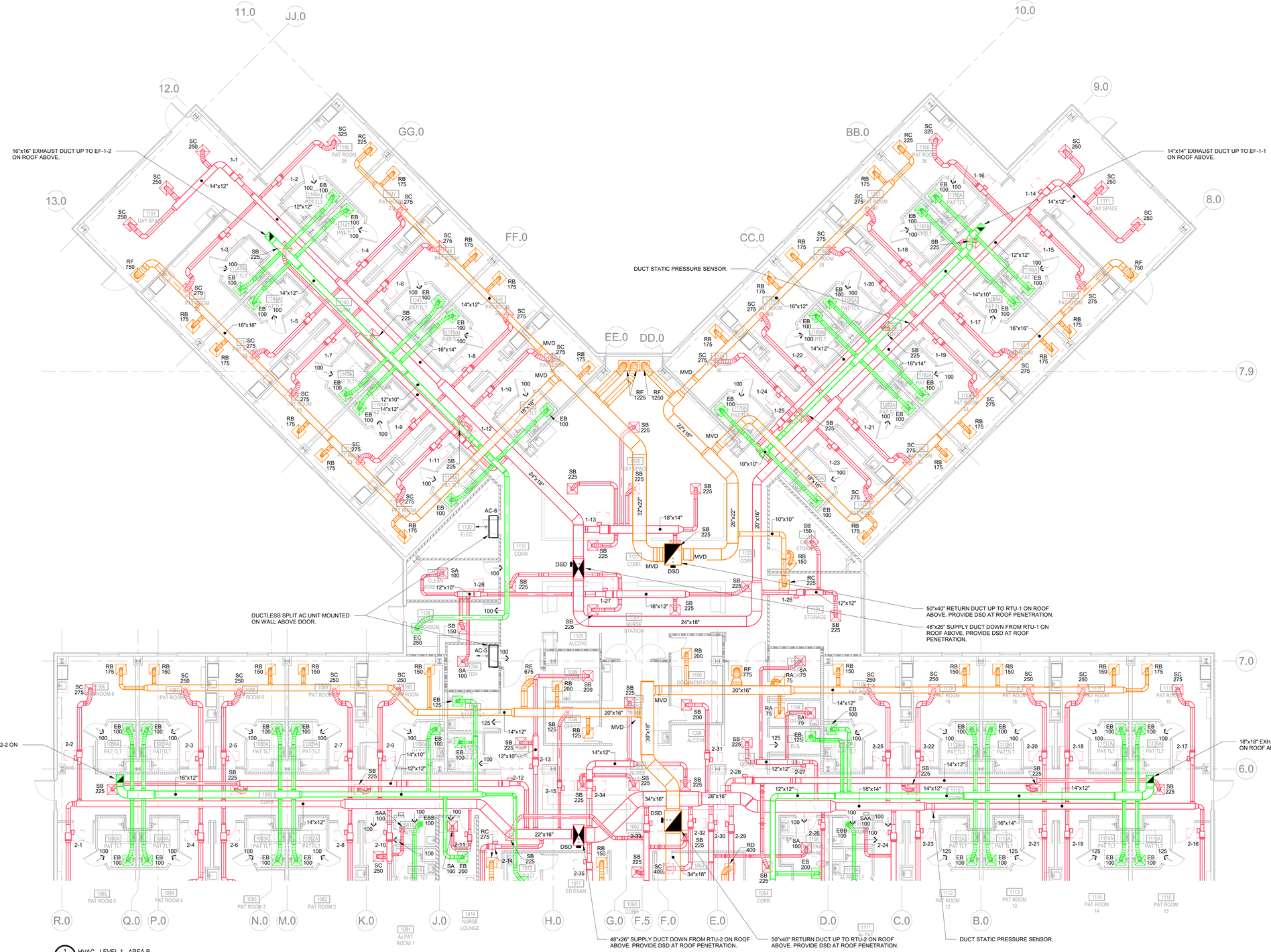
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M1.01a

HVAC - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH(25.4MM) ON ORIGINAL ARCH D SHEETS



1 M1.01b HVAC - LEVEL 1 - AREA B
1/8" = 1'-0"

NEW CONSTRUCTION NOTES:

1. ALL DUCT AND PIPE TO BE INSTALLED AT A MINIMUM OF 6" CLEAR TO RATED WALLS TO ALLOW FOR INSPECTION OF PARTITION ASSEMBLIES. ALL UTILITIES SHALL BE LOCATED SO THAT ACCESS IS MAINTAINED TO ADJACENT WALL SURFACES AND TO ALL ACCESS DOORS.
2. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE AROUND ELECTRIC VAV BOXES. MAINTAIN A MINIMUM OF 42" AROUND ELECTRIC VAV BOXES.
3. DUCT FIRE DAMPERS AT RATED WALLS ARE OMITTED FROM THIS PROJECT, WHICH SHALL BE CONSTRUCTED IN COMPLIANCE WITH 2023 FLORIDA MECHANICAL CODE SECTION 607.5.2 "FIRE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF FIRE BARRIERS WHERE ANY OF THE FOLLOWING APPLY" EXCEPTION 3:

   "SUCH WALLS ARE PENETRATED BY FULLY DUCTED HVAC SYSTEMS, HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXCEPTION, A FULLY DUCTED HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE [0.0217 INCH (0.55 MM)] THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS. FLEXIBLE AIR CONNECTORS SHALL BE PERMITTED IN A FULLY DUCTED SYSTEM, LIMITED TO THE FOLLOWING INSTALLATIONS:

   NONMETALLIC FLEXIBLE CONNECTIONS THAT CONNECT A DUCT TO AN AIR HANDLING UNIT OR EQUIPMENT LOCATED WITHIN A MECHANICAL ROOM IN ACCORDANCE WITH SECTION 603.9.

   NONMETALLIC FLEXIBLE AIR CONNECTORS IN ACCORDANCE WITH SECTION 603.6.2 THAT CONNECT AN OVERHEAD METAL DUCT TO A CEILING DIFFUSER WHERE THE METAL DUCT AND CEILING DIFFUSER ARE LOCATED WITHIN THE SAME ROOM."

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

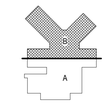
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

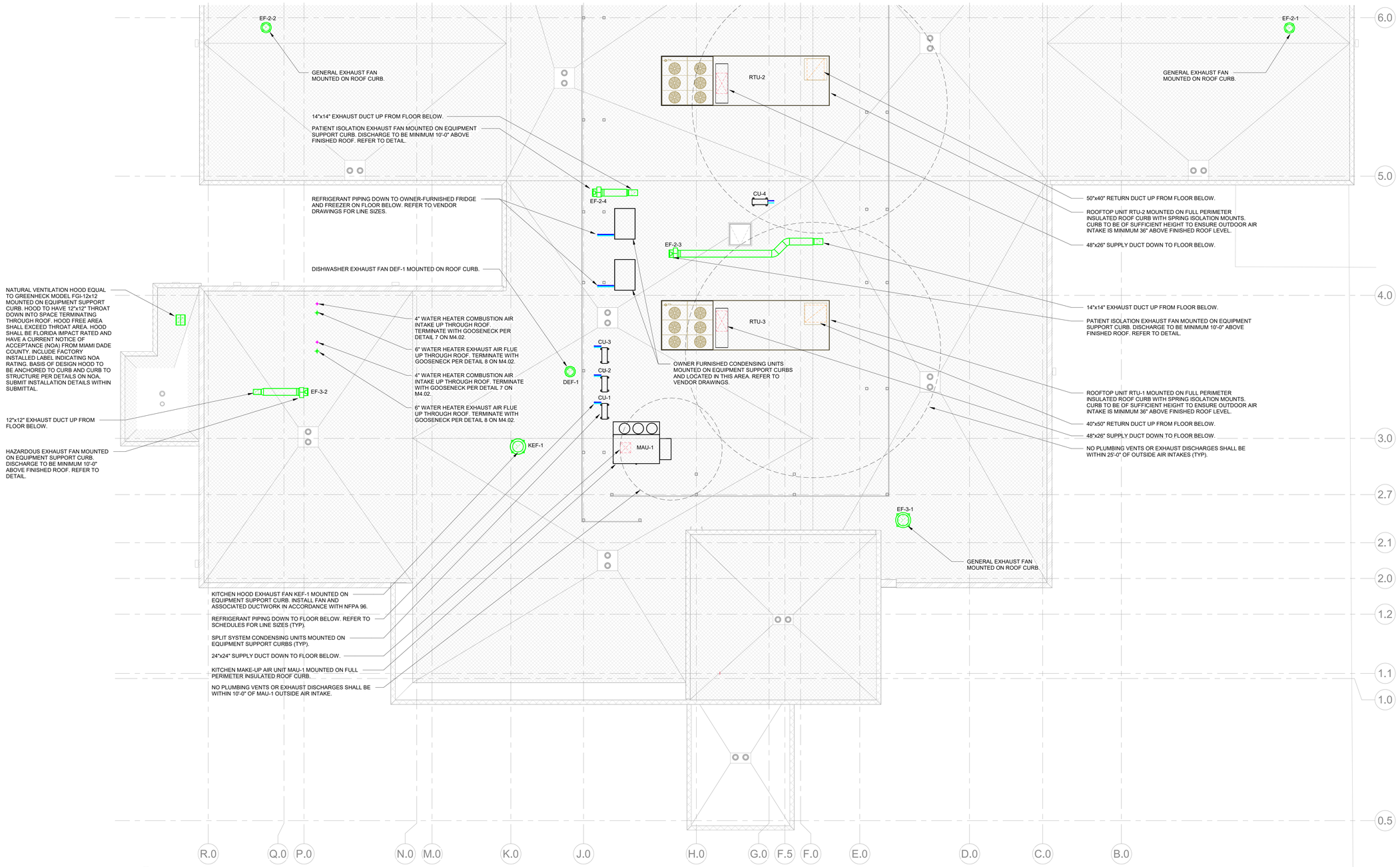
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M1.01b

HVAC - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH D SHEETS



1 / M1.21a MECHANICAL - ROOF PLAN - AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

NEW CONSTRUCTION NOTES:

1. ALL MECHANICAL ROOFTOP EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AIR HANDLING UNITS, EXHAUST FANS, AND CONDENSING UNITS MUST BE LOCATED AT LEAST 10'-0" FROM EDGE OF ROOF.
2. ALL EXPOSED DUCTWORK SHALL BE A MINIMUM OF 20 GAUGE.
3. PROVIDE KITCHEN EXHAUST FAN WITH UPBLAST HOUSING, HINGED FAN BASE WITH FLEXIBLE WEATHERPROOF ELECTRICAL CABLE TO PERMIT INSPECTION AND CLEANING AND RESTRAINT TO LIMIT THE SWING OF THE FAN ON ITS HINGE. MINIMUM 18" HIGH ROOF CURB, MINIMUM 40" OVERALL FAN DISCHARGE HEIGHT ABOVE ROOF SURFACE, GREASE DRAIN AND APPROVED EXTERNAL GREASE CONTAINER.
4. ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED AT A MINIMUM OF 8" ABOVE ROOF SURFACE. WHERE ROOFING MATERIALS EXTEND BENEATH THE EQUIPMENT, THE EQUIPMENT SHALL BE MOUNTED AT A MINIMUM HEIGHT DEPENDENT ON THE EQUIPMENT WIDTH.

EQUIPMENT WIDTH	MIN. CLEARANCE ABOVE ROOF
< 24"	14"
24" < 36"	18"
36" < 48"	24"
48" < 60"	30"
> 60"	48"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

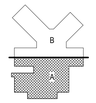
MECHANICAL ENGINEER
FLORIDA REGISTRATION
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

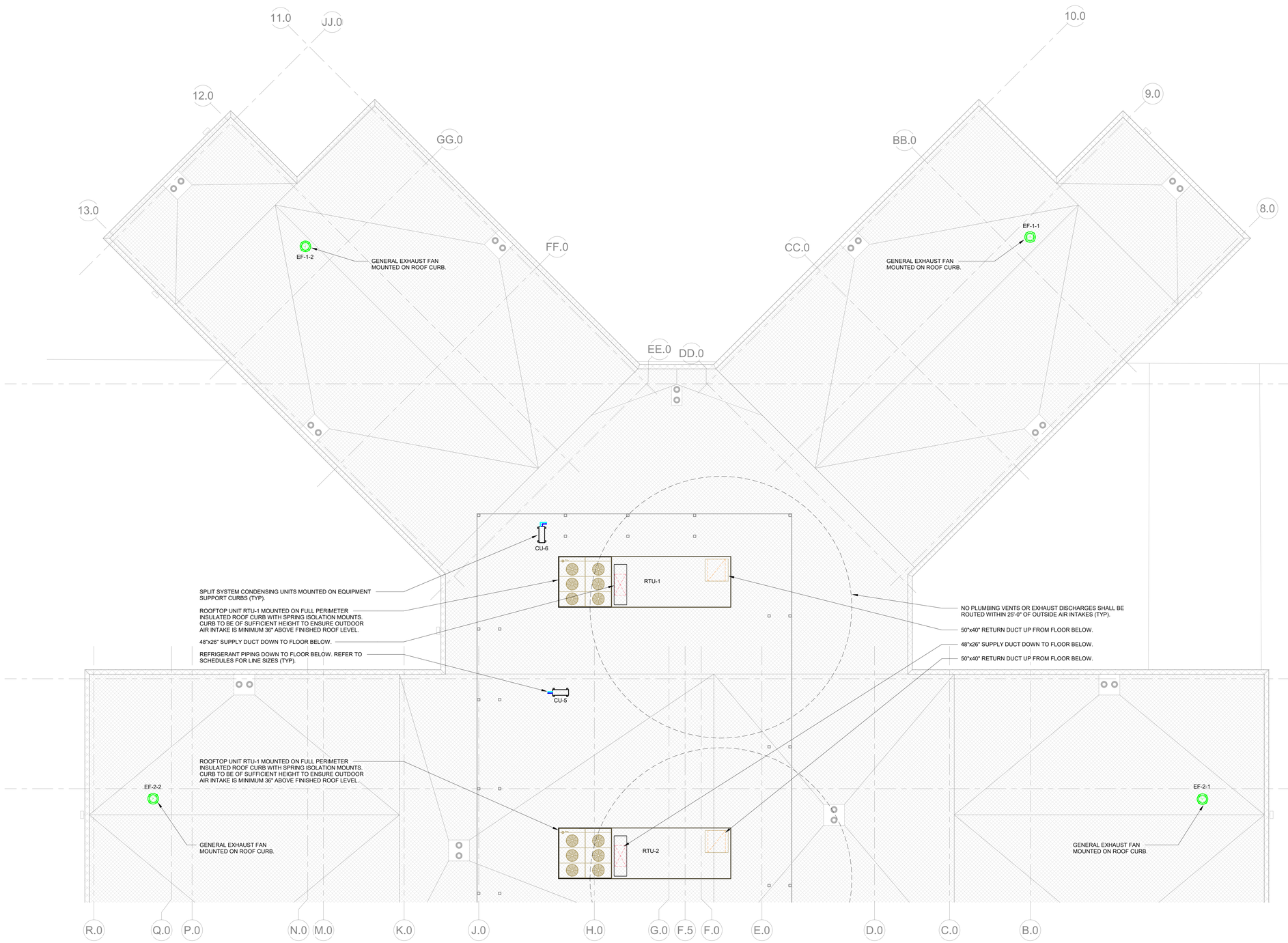
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M1.21a

MECHANICAL - ROOF PLAN - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22"X34" ORIGINAL PLOT SIZE



1 M1.21b MECHANICAL - ROOF PLAN - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

NEW CONSTRUCTION NOTES:

1. ALL MECHANICAL ROOFTOP EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AIR HANDLING UNITS, EXHAUST FANS, AND CONDENSING UNITS MUST BE LOCATED AT LEAST 10'-0" FROM EDGE OF ROOF.
2. ALL EXPOSED DUCTWORK SHALL BE A MINIMUM OF 20 GAUGE.
3. ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED AT A MINIMUM OF 8" ABOVE ROOF SURFACE. WHERE ROOFING MATERIALS EXTEND BENEATH THE EQUIPMENT, THE EQUIPMENT SHALL BE MOUNTED AT A MINIMUM HEIGHT DEPENDENT ON THE EQUIPMENT WIDTH.

EQUIPMENT WIDTH	MIN. CLEARANCE ABOVE ROOF
< 24"	14"
24" < 36"	18"
36" < 48"	24"
48" < 60"	30"
> 60"	48"

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

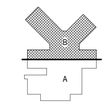
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

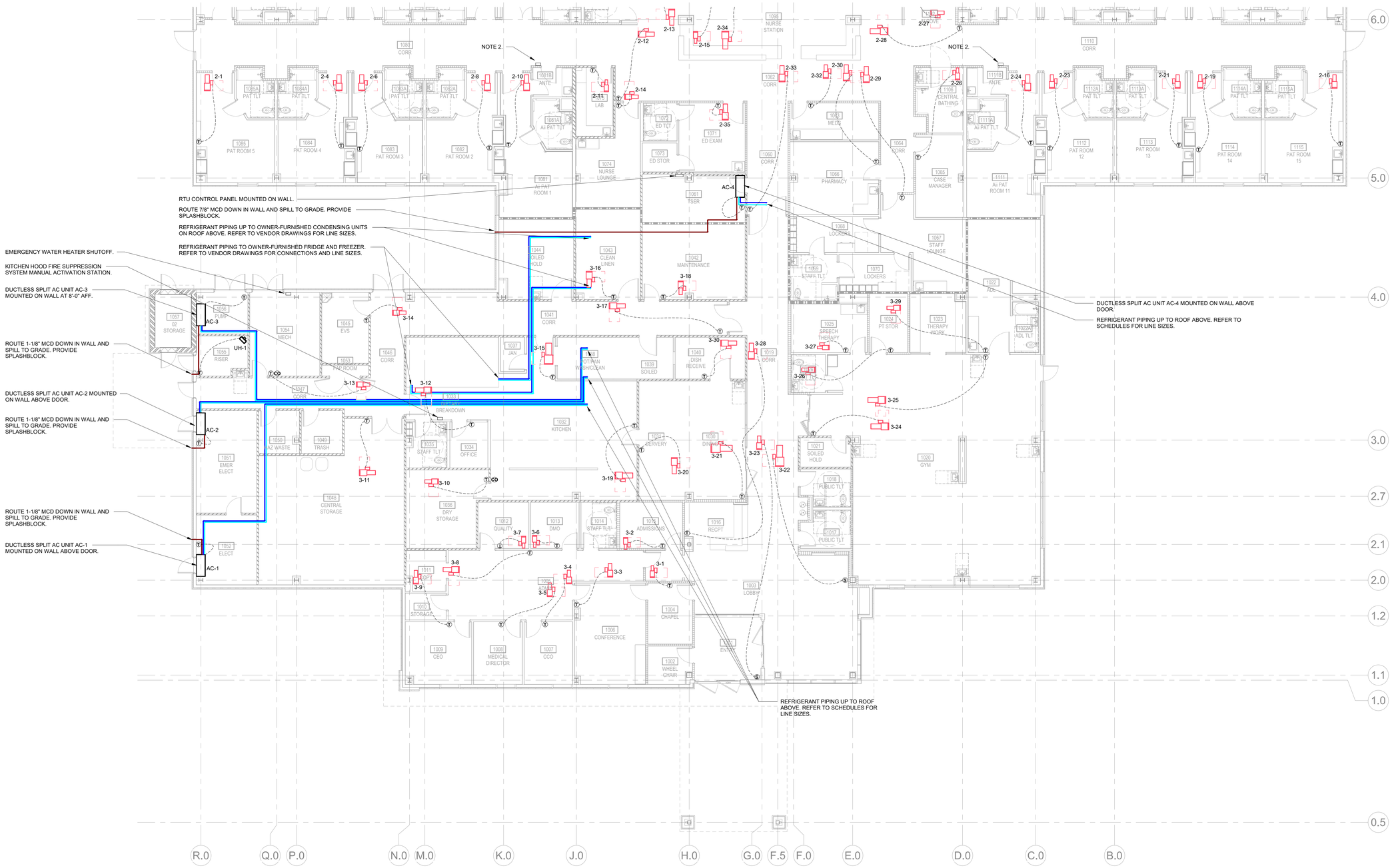
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M1.21b

MECHANICAL - ROOF PLAN - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE



1 M2.01a PIPING - LEVEL 1 - AREA A
1/8" = 1'-0"

NEW CONSTRUCTION NOTES:

1. ALL DUCT AND PIPE TO BE INSTALLED AT A MINIMUM OF 6" CLEAR TO RATED WALLS TO ALLOW FOR INSPECTION OF PARTITION ASSEMBLIES. ALL UTILITIES SHALL BE LOCATED SO THAT ACCESS IS MAINTAINED TO ADJACENT WALL SURFACES AND TO ALL ACESS DOORS.
2. PROVIDE AUDIO/VISUAL ROOM PRESSURIZATION MONITOR FOR ISOLATION ROOM. ALARM SHALL BE INTEGRATED INTO BUILDING EMS. PRESSURE DIFFERENTIAL MINIMUM SET POINT TO BE 0.01".

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS
- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

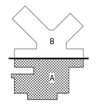
EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

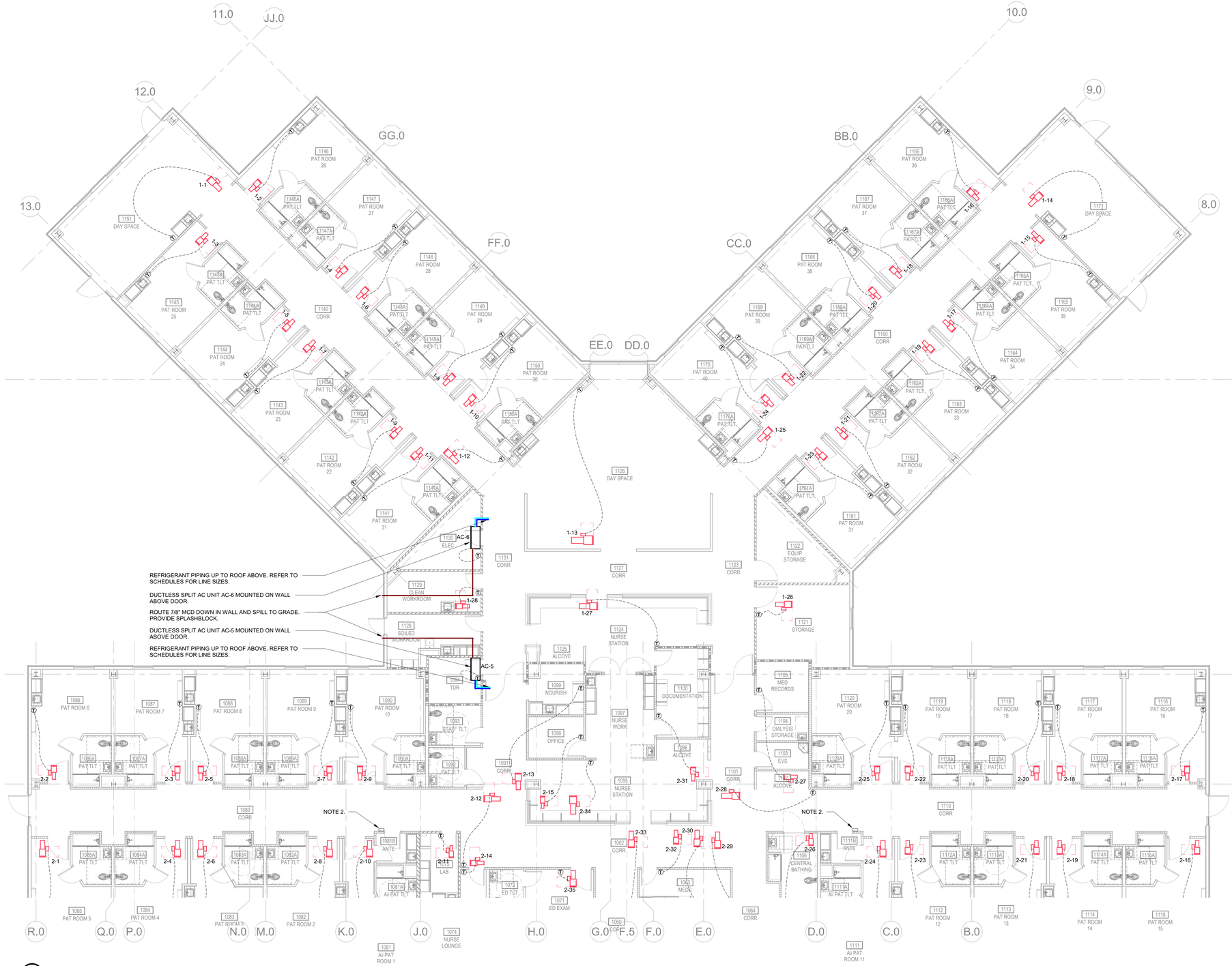
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M2.01a

PIPING - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS



REFRIGERANT PIPING UP TO ROOF ABOVE. REFER TO SCHEDULES FOR LINE SIZES.

DUCTLESS SPLIT AC UNIT AC-6 MOUNTED ON WALL ABOVE DOOR.

ROUTE 7/8" MCD DOWN IN WALL AND SPILL TO GRADE. PROVIDE SPLASHBLOCK.

DUCTLESS SPLIT AC UNIT AC-5 MOUNTED ON WALL ABOVE DOOR.

REFRIGERANT PIPING UP TO ROOF ABOVE. REFER TO SCHEDULES FOR LINE SIZES.

1 M2.01b PIPING - LEVEL 1 - AREA B
1/8" = 1'-0"

NEW CONSTRUCTION NOTES:

1. ALL DUCT AND PIPE TO BE INSTALLED AT A MINIMUM OF 6" CLEAR TO RATED WALLS TO ALLOW FOR INSPECTION OF PARTITION ASSEMBLIES. ALL UTILITIES SHALL BE LOCATED SO THAT ACCESS IS MAINTAINED TO ADJACENT WALL SURFACES AND TO ALL ACESS DOORS.
2. PROVIDE AUDIO/VISUAL ROOM PRESSURIZATION MONITOR FOR ISOLATION ROOM. ALARM SHALL BE INTEGRATED INTO BUILDING EMS. PRESSURE DIFFERENTIAL MINIMUM SET POINT TO BE 0.01".

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

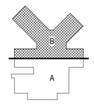
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

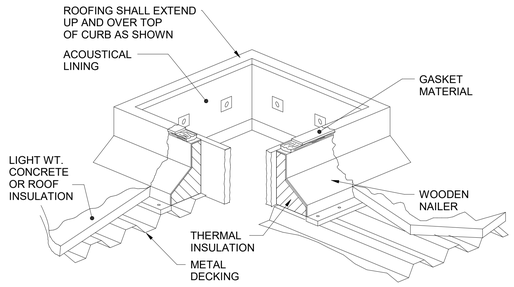
CURRENT:

SHEET TITLE AND NUMBER:

M2.01b

PIPING - LEVEL 1 - AREA B

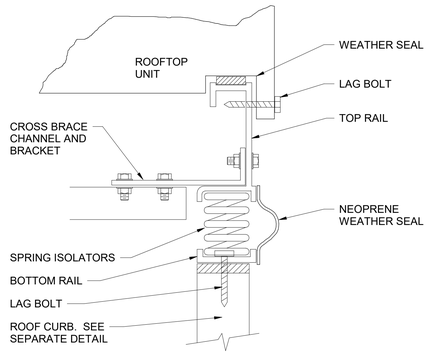
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL ARCH SIZE



NOTES:

1. CURB HEIGHT ON UP-SLOPE SIDE SHALL BE AS SET FORTH IN MECH. SPECS. SECURE CURB TO BUILDING STRUCTURE WITH SHEET LAG BOLTS, OR OTHER METHODS CONSISTENT WITH ROOF STRUCTURE.
2. COORDINATE FASTENING SPACING WITH LOCAL WIND LOADS.

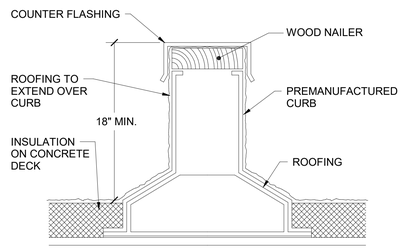
ROOF CURB ON METAL DECK DETAIL — 1
No Scale



KINETICS MODEL KSR ISOLATION BASE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

INSTALL WIND RESTRAINTS (NOT SHOWN HERE) PER MANUFACTURER'S RECOMMENDATIONS TO WITHSTAND WIND LOAD AS INDICATED ON STRUCTURAL DRAWINGS.

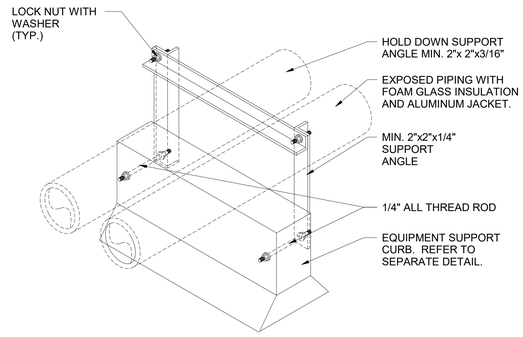
ROOFTOP UNIT VIBRATION ISOLATION BASE — 2
No Scale



NOTES:

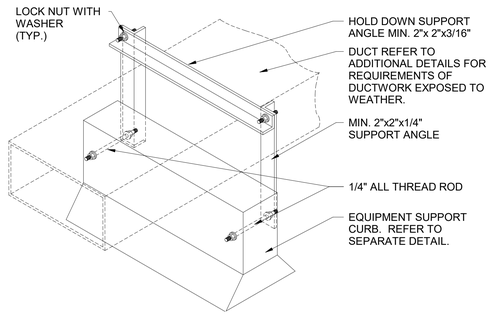
1. SECURE CURB TO ROOF WITH SHEET METAL SCREWS OR LAG BOLTS OR FIELD WELD CONSISTENT WITH ROOF STRUCTURE.
2. COORDINATE FASTENING SPACING WITH LOCAL WIND LOADS.
3. DELEGATED DESIGN AND SPACING SHALL BE COMPLIANT WITH RISK CATEGORY IV.

EQUIPMENT SUPPORT CURB — 3
No Scale



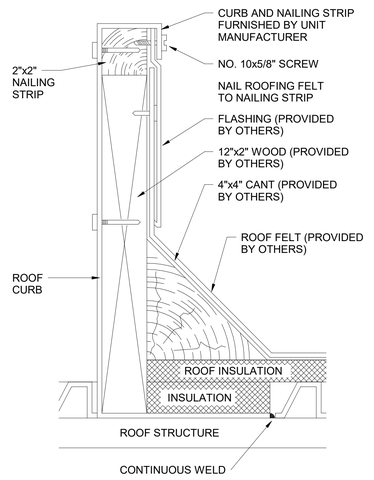
DELEGATED DESIGN AND SPACING SHALL BE COMPLIANT WITH LOCAL WIND REQUIREMENTS AND RISK CATEGORY IV.

PIPE SUPPORT ON ROOF DETAIL — 4
No Scale

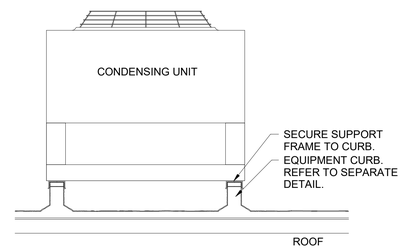


DELEGATED DESIGN AND SPACING SHALL BE COMPLIANT WITH LOCAL WIND REQUIREMENTS AND RISK CATEGORY IV.

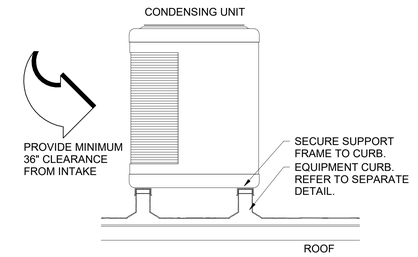
DUCT SUPPORT ON ROOF DETAIL — 5
No Scale



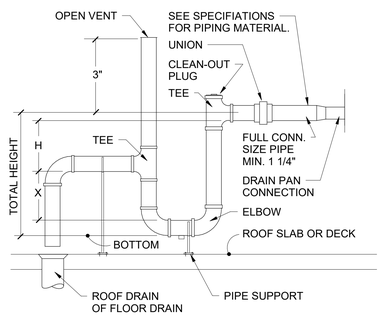
ROOFTOP UNIT CURB DETAIL — 6
No Scale



CONDENSING UNIT ON ROOF — 7
No Scale



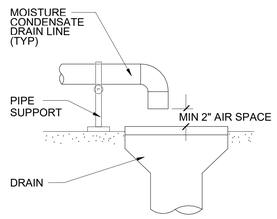
CONDENSING UNIT ON ROOF — 8
No Scale



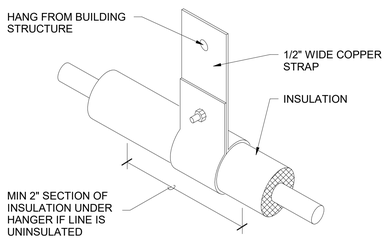
NOTE:
SLOPE DRAIN LINE MINIMUM OF 1/8" PER FOOT TO ROOF RECEPTOR.
TOTAL HEIGHT OF TRAP= X+H+ (1 1/2 x PIPE DIAMETER)

FOR DRAW THRU UNITS
X= MIN. 1/2 H (PREFERRED X=H)
H= NEGATIVE STATIC PRESSURE +1"

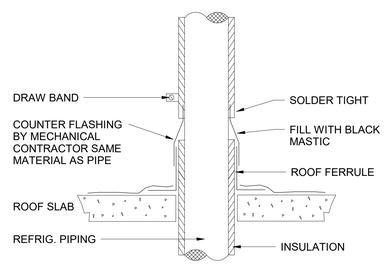
CONDENSATE DRAIN TRAP — 9
No Scale



TERMINATION DETAIL OF MOISTURE CONDENSATE LINE — 10
No Scale



DETAIL FOR REFRIGERANT LINE HANGER — 11
No Scale



INSUL. REFRIG. PIPING THRU ROOF — 12
No Scale

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
888.781.8441
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

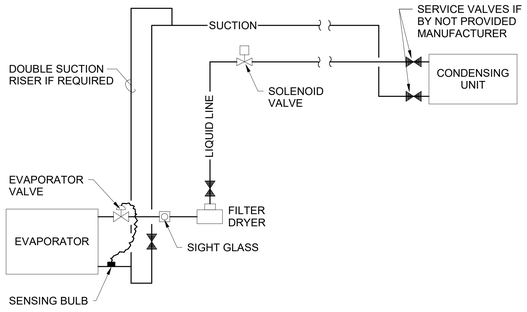
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

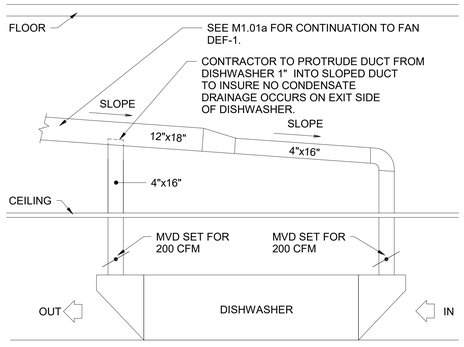
M4.01

MECHANICAL - DETAILS

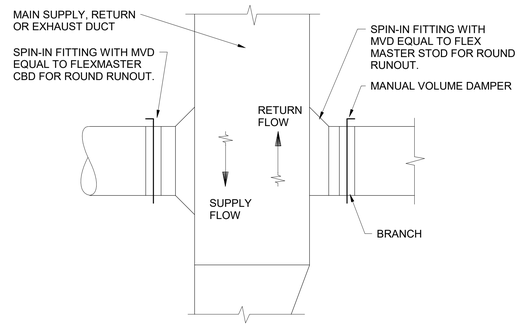
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SIZE



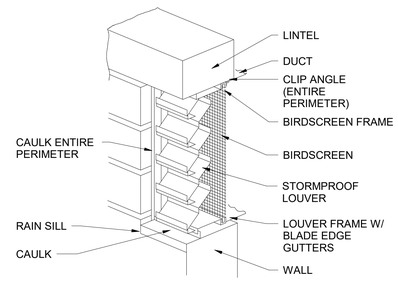
REFRIGERANT PIPING SCHEMATIC — 1
No Scale



DISHWASHER EXHAUST DETAIL — 2
No Scale

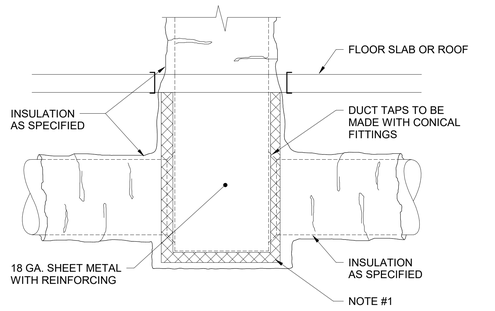


LOW PRESSURE ROUND BRANCH DUCT RUNOUT — 3
No Scale



ALL LOUVERS SHALL BE NOA RATED.

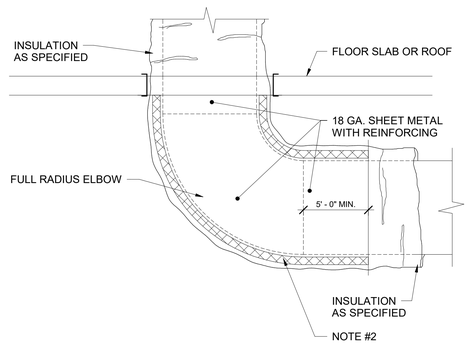
TYPICAL HVAC WALL LOUVER — 4
No Scale



NOTES:

1. PROVIDE 1 LAYER OF 1" THICK KINETICS TYPE "PC-410 GBD" SOUND BARRIER WRAP.

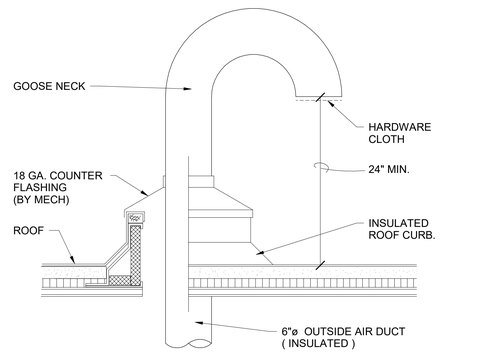
BOTTOM OF RISER DUCT DROP WITH TAPS ON BOTH SIDES — 5
No Scale



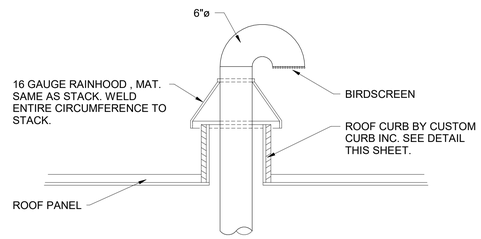
NOTES:

1. CONTRACTOR TO PROVIDE FULL RADIUS ELBOW WHERE CLEARANCE WILL ALLOW. IF SPACE REQUIRES MITERED ELBOW, PROVIDE WITH DOUBLE THICKNESS TURNING VANES.
2. PROVIDE 1 LAYER OF 1" THICK KINETICS TYPE "PC-410 GBD" SOUND BARRIER WRAP.

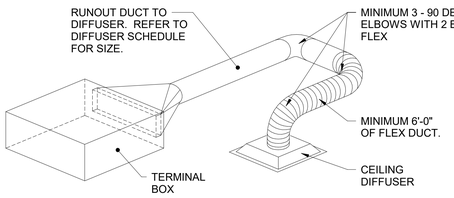
BOTTOM OF RISER DUCT DROP WITH 90º ELBOW — 6
No Scale



OUTSIDE AIR INTAKE DETAIL — 7
No Scale



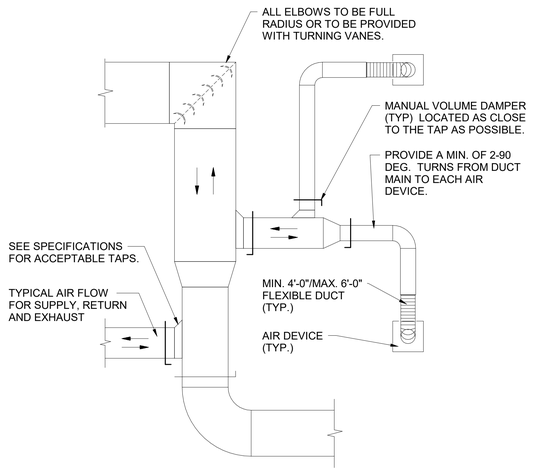
GOOSE NECK EXHAUST — 8
No Scale



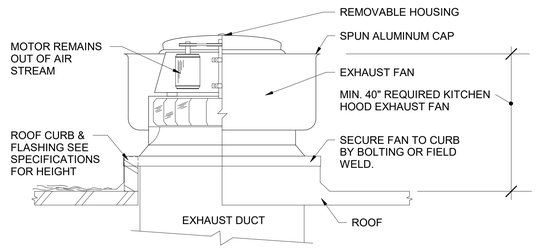
NOTES:

1. 90 DEGREE ELBOWS IN FLEX DUCT TO HAVE NOT LESS THAN ONE DUCT DIAMETER CENTERLINE RADIUS.

BOX SERVING ONE DIFFUSER DETAIL — 9
No Scale



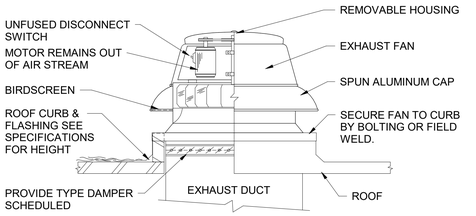
TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL — 10
No Scale



NOTE:

1. PROVIDE RUBBER VIBRATION ISOLATORS TO PREVENT MOTOR AND BEARING NOISE FROM TRANSMITTING TO THE FAN HOUSING.
2. ROUTE POWER LEADS TO FAN INSIDE CORNER OF CURB.
3. BELT DRIVEN CENTRIFUGAL EXHAUST FAN SHOWN. DETAIL IS SIMILAR FOR DIRECT DRIVE CENTRIFUGAL EXHAUST FAN.
4. SUPPORT CURB TO BE PERMANENTLY ATTACHED TO BUILDING STRUCTURE BY BOLTING OR WELDING.

UPBLAST KITCHEN HOOD EXHAUST FAN — 11
No Scale



NOTES:

1. PROVIDE RUBBER VIBRATION ISOLATORS TO PREVENT MOTOR AND BEARING NOISE FROM TRANSMITTING TO THE FAN HOUSING.
2. ROUTE POWER LEADS TO FAN INSIDE CORNER OF CURB.
3. BELT DRIVEN CENTRIFUGAL EXHAUST FAN SHOWN. DETAIL IS SIMILAR FOR DIRECT DRIVE CENTRIFUGAL EXHAUST FAN.
4. SUPPORT CURB TO BE PERMANENTLY ATTACHED TO BUILDING STRUCTURE BY BOLTING OR WELDING.

CENTRIFUGAL EXHAUST FAN — 12
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

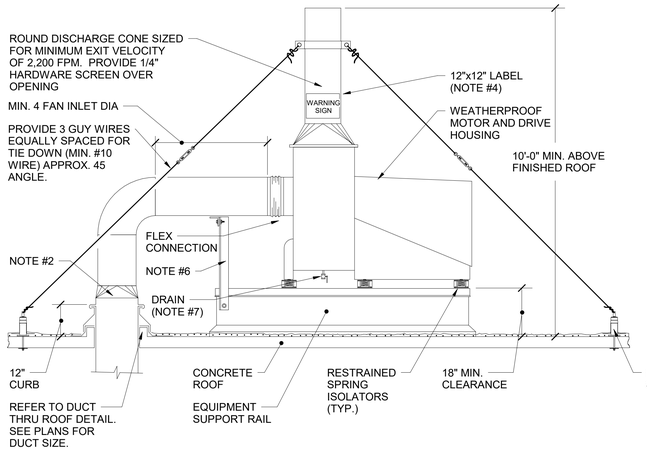
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M4.02

MECHANICAL - DETAILS

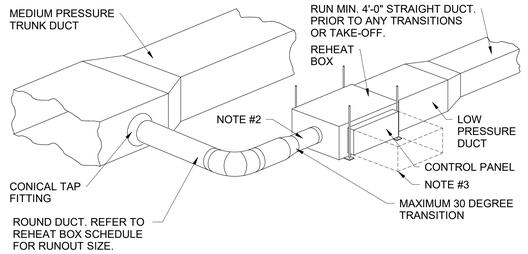
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



NOTES :

1. PROVIDE MEANS TO LUBRICATE BEARINGS EITHER BY ACCESS PANEL OR EXTERIOR MOUNTED GREASE FITTING.
2. TRANSTITION FROM SQUARE TO ROUND FAN INLET SIZE.
3. FAN TO BE SECURED WITH GUY WIRES AND HOLD DOWN STRAPS SIMILAR TO ROOFTOP UNIT DETAIL ON THIS SHEET.
4. PROVIDE TWO SIGNS, ONE ON EACH SIDE OF FAN ON WHITE BACKGROUND WITH RED LETTERING TO READ "WARNING: PATIENT ISOLATION ROOM EXHAUST FAN. TAKE PROPER PRECAUTIONS PRIOR TO WORKING IN THIS AREA." MOUNT 5'-0" ABOVE FINISHED ROOF.
5. SECURE FAN TO ISOLATORS AND ISOLATORS TO SUPPORT CURB RAME BY BOLTING OR FIELD WELD.
6. EXTEND EQUIPMENT CURB A SUFFICIENT LENGTH TO INSTALL 2"x2" ANGLE IRON DUCT SUPPORT TO INSURE STRAIGHT ALLIGNMENT OF DUCT AND FAN INLET. SEE "DUCT SUPPORT ON ROOF" DETAIL.
7. PROVIDE BALL VALVE ON DRAIN OUTLET TO PREVENT CONTAMINATED AIR FROM BLOWING TO ROOF AREA.

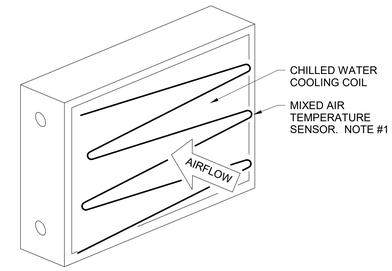
HIGH WIND ISOLATION ROOM EXHAUST FAN DETAIL | 1
No Scale



NOTES

1. BOXES 1,400 CFM OR LESS TO BE SUPPORTED WITH 1/2"x1/2"x1" GALANIVED BAND IRON ON FOUR CORNERS BOXES GREATER THAN 1,400 CFM SHALL HAVE TRAPEZE SUPPORT OF REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
2. PROVIDE A MINIMUM LENGTH OF 2 INLET DIAMETER OF STRAIGHT RIGID SHEETMETAL FROM THE DUCT TRANSITION PIECE TO THE VAV BOX INLET.
3. BOXES WITH ELECTRICAL REHEAT COILS TO HAVE 3'-6" MINIMUM WORKING CLEARANCE ON TERMINAL BOX SIDE.

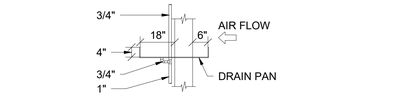
VARIABLE VOLUME BOX CONNECTION DETAIL | 2
No Scale



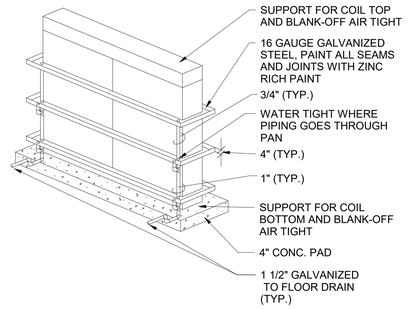
NOTES

1. PROVIDE MINIMUM 1 LINEAR FOOT OF TEMPERATURE SENSOR PER SQUARE FOOT OF COIL.
2. TEMPERATURE SENSOR TO BE MOUNTED A MIN. OF 2" FROM COOLING COIL W/ PLASTIC HOLD-OFF STANDS

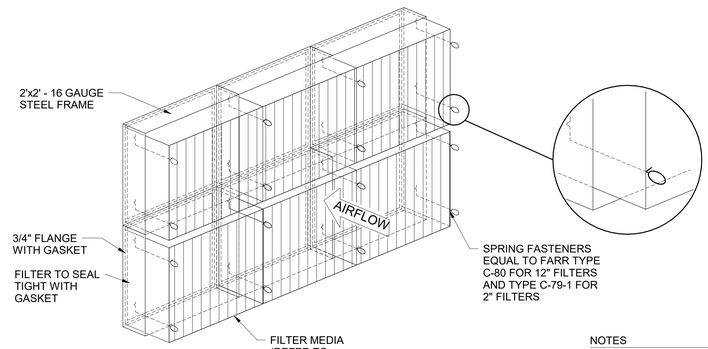
TEMPERATURE SENSOR MOUNTING DETAIL | 3
No Scale



SIDE ELEVATION



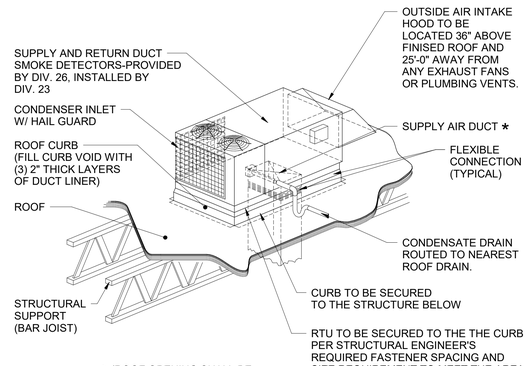
WATER COIL DRAIN PAN DETAIL | 4
No Scale



NOTES

1. FILTER RACK TO BE BUILT TO MATCH FILTER SIZE INDICATED ON SCHEDULE.
2. RACK TO BE EQUAL TO CAMFIL FARR "TYPE 8" FRAME. INSTALL SO THAT FILTERS ARE REMOVED FROM THE DIRTY SIDE.
3. INSTALL VERTICAL OR HORIZONTAL SUPPORT STEEL ON BANKS GREATER THAN 4 RACKS HIGH OR 4 RACKS WIDE. REFER TO MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

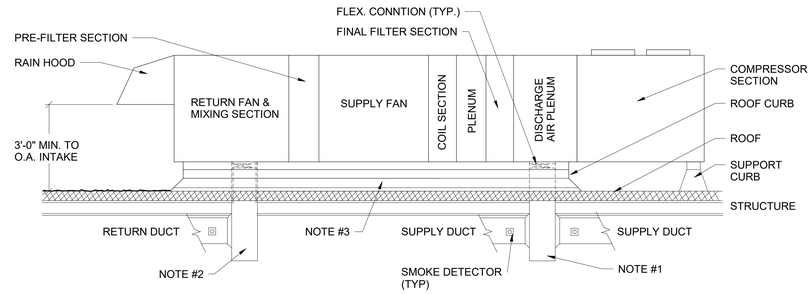
FRONT LOADING FILTER RACK DETAIL | 5
No Scale



* (ROOF OPENING SHALL BE NO LARGER THAN 2" GREATER THAN DUCT OPENING)

NOTE:
CONTRACTOR TO PROVIDE DOCUMENTATION FROM A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA TO INDICATE EXACT SECURMENT PROCEDURES FOR ROOFTOP MOUNTED EQUIPMENT INSTALLATION BASED ON THE AREA WIND LOADING CRITERIA.

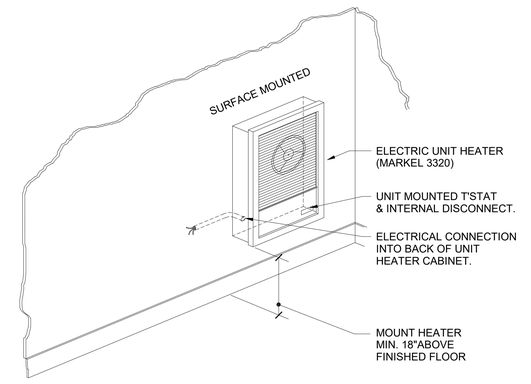
MAU - HIGH WIND | 6
No Scale



NOTES:

1. PROVIDE CONNECTION SIZE PLENUM. PLENUM TO BE CONSTRUCTED OF 18 GAUGE SHEET METAL WITH REINFORCING. EXTERNALLY INSULATE WITH 1 LAYER OF 1" THICK KINETICS TYPE "PC-410 GBD" SOUND BARRIER WRAP.
2. PROVIDE CONNECTION SIZE PLENUM. PLENUM TO BE CONSTRUCTED OF 18 GAUGE SHEET METAL WITH REINFORCING.
3. PROVIDE LIGHTWEIGHT CONCRETE FILL (MIN. 2" DEPTH) INSIDE CURB.

ROOFTOP UNIT DETAIL | 7
No Scale



ELECTRIC UNIT HEATER MOUNTING DETAIL | 8
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M4.03

MECHANICAL - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

INPUT/OUTPUT SUMMARY

AIR HANDLING UNIT
RTU-1
RTU-2
RTU-3

	TAG	INPUTS: ANALOG MEASURED: TEMPERATURE	PRESSURE	HUMIDITY (RH)	AIR FLOW	AIR QUALITY	KW	DDC GATEWAY	VALVE POSITION	CURRENT SENSOR (AMPS)	INPUTS: ANALOG CALC.: KWH	ENTHALPY	RUN TIME	EFFICIENCY	AIR FLOW (CFM)	INPUTS: DIGITAL: STATUS (DIFF. PRESS.)	STATUS (CURRENT SWITCH)	SMOKE	LOW TEMP.	AIR FLOW	END SWITCH	FIRE ALARM	PRESSURE	ON-OFF	OUTPUTS: DIGITAL: OFF-AUTO-ON	OFF-HIGH-LOW	OPEN-CLOSE	OUTPUTS: ANALOG: DAMPER POSI.	VALVE POSI.	SET POINT ADJ.	4-20 mA	SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	MANUAL RESET	AUTO RESET	PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	START/STOP OPTIM.	ENTHALPY OPTIM.	SMOKE CONTROL	TREND	ALARM INSTRUCTION
O.A. TEMPERATURE	TT-OAT	●																																									●	
LOW STATIC	SPS-RLO		●																				●											●		●							●	●
RETURN AIR HUMIDITY	HT-RAH			●																																						●	
RETURN AIR TEMPERATURE	TT-RAT	●																																									●	
RETURN FAN VFD	VFD-RAF						●	●																	●						●												●	●
RETURN FAN STATUS	STS-RAF																●																		●		●						●	●
RETURN AIR FLOW	AM-RA				●			●																																			●	
RELIEF DAMPER	D-REL																					●						●							●		●						●	●
RETURN DAMPER	D-RET																					●						●							●		●						●	●
MIN. O.A. DAMPER	D-MIN																					●							●						●		●						●	●
ECONOMIZER DAMPER	D-EOA																					●						●							●		●						●	●
PRE-FILTER STATUS	DPS-FIL																●																			●		●						●	●
MIXED AIR TEMPERATURE	TT-MAT	●																																			●						●	●
DX COOLING CONTROL	CU								●				●												●	●				●	●				●	●	●						●	●
SUPPLY FAN VFD	VFD-SAF						●	●																		●						●												●	●
SUPPLY FAN STATUS	STS-SAF																●																		●		●						●	●
SUPPLY AIR FLOW	AM-SA				●			●																																			●	
FINAL FILTER STATUS	DPS-PFL																●																			●		●						●	●
O.A. FLOW	---																	●																			●	●						●	●
HI STATIC	SPS-SHI																							●													●							●	●
UNIT DISCHARGE TEMPERATURE	TT-DAT	●																																		●	●						●	●
SUPPLY STATIC	SPT-SA		●																																	●	●						●	●
RETURN SMOKE DETECTOR	SD-RA																					●															●							●	●
SUPPLY SMOKE DETECTOR	SD-SA																					●															●							●	●
FIRE ALARM	---																					●															●							●	●
SMOKE DAMPER (TYP.)	---																										●																	●	
EXHAUST FAN START/STOP (TYP.)	SS-EF																									●																		●	
EXHAUST FAN STATUS (TYP.)	STS-EF									●																										●							●	●
ISO. RM PRESS. MONITOR (REMARK 4)																																					●								●

REMARKS:

1. PROVIDE TEMPERATURE SENSOR ON DISCHARGE OF EACH VAV TERMINAL BOX. (REFER TO PLANS FOR NUMBER REQUIRED)
2. PROVIDE SEPARATE O.A. TEMP. READOUT FOR EACH AHU.
3. REFER TO DRAWINGS FOR NUMBER OF EXHAUST FANS INTERLOCKED WITH EACH AHU.
4. PROVIDE DOOR SWITCH INTERLOCKED WITH PRESSURE MONITOR TO DISABLE MONITOR ALARM WHEN DOOR IS OPEN.

SEQUENCE OF OPERATION FOR USE WITH RTU-1, RTU-2, AND RTU-3 ONLY

SUPPLY AIR AND RETURN AIR FAN
SUPPLY AIR AND RETURN AIR FANS SHALL BE ENERGIZED/DE-ENERGIZED FROM THE VFD IN HAND POSITION OR THE DDC SYSTEM WHEN IN AUTO MODE. THE DDC CONTROL SYSTEM SHALL SENSE WHEN THE FAN IS IN HAND POSITION BY THE FAN STATUS VERIFICATION AND INITIATE THE AHU CONTROL SEQUENCE.

IN HAND MODE OR AUTO MODE THE TWO-POSITION MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL OPEN. ONCE THE DAMPER IS OPEN AND THE END SWITCH CONTACT IS MADE, THE SUPPLY FAN SHALL START, AND THE DDC SYSTEM SHALL SIGNAL THE ASSOCIATED RETURN AND EXHAUST FANS TO START.

FANS SHALL SHUT DOWN FROM A SIGNAL FROM:
- THE FIRE ALARM PANEL THRU THE F/A RELAY.
- THE SUPPLY AIR SMOKE DETECTOR(S) (SD-SA).
- THE RETURN AIR SMOKE DETECTOR(S) (SD-RA).
- THE HIGH/LOW LIMIT STATIC PRESSURE SWITCHES (SPS-SHI & RLO).

WHEN THE SUPPLY FAN SHUTS DOWN THE FOLLOWING SHALL OCCUR:
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
- THE ECONOMIZER OUTSIDE AIR DAMPER (D-EOA) SHALL CLOSE.
- THE RELIEF DAMPER (D-REL) SHALL CLOSE.
- THE RETURN DAMPER (D-RET) SHALL OPEN.
- THE CONDENSER FANS AND COMPRESSORS SHALL DEACTIVATE
- THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.

SUPPLY FAN SPEED CONTROL
THE SUPPLY FANS VARIABLE FREQUENCY DRIVE (VFD) SHALL BE CONTROLLED BY A DUCT MOUNTED DIFFERENTIAL STATIC PRESSURE TRANSMITTER (SPT-SA) MODULATING THE VFD TO MAINTAIN A SUPPLY DUCT STATIC PRESSURE AT THE LOWEST SET POINT POSSIBLE AS DETERMINED BY THE TAB CONTRACTOR. THE VFD SHALL OUTPUT THE % FULL SPEED TO THE DDC SYSTEM THROUGH THE NETWORK INTERFACE.

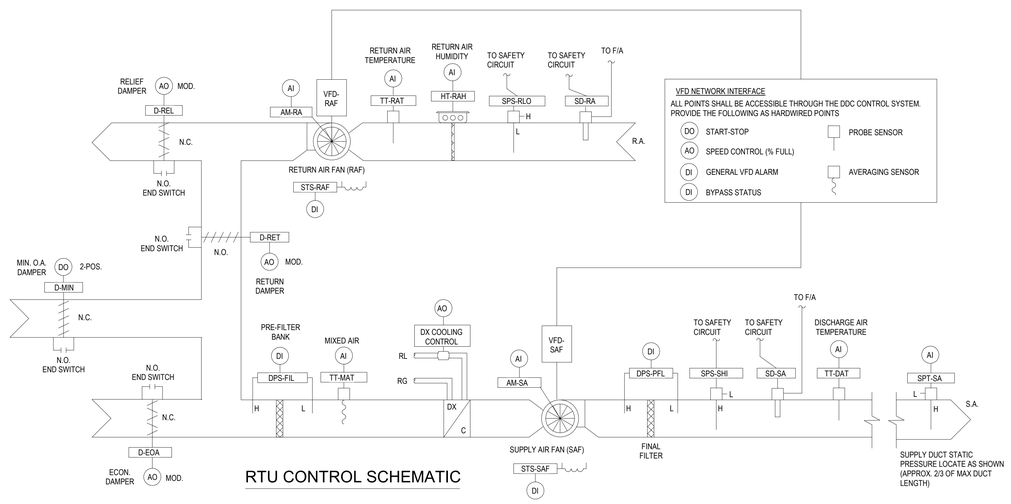
ON A FALL IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, THE DDC SYSTEM SHALL SPEED UP THE SUPPLY FAN'S VFD TO MAINTAIN SPT-SA AT SET POINT. ON A RISE IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, THE DDC SYSTEM SHALL SLOW DOWN THE SUPPLY FAN'S VFD TO MAINTAIN SPT-SA AT SET POINT. SPT-SA SHALL ALARM THE DDC SYSTEM IF ITS MEASURED PRESSURE IS 10% (ADJ.) ABOVE OR BELOW SETPOINT.

SPS-SHI SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A HIGH STATIC PRESSURE, ALARM THE DDC SYSTEM, AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN. SPS-RLO SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A LOW STATIC PRESSURE AND ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN

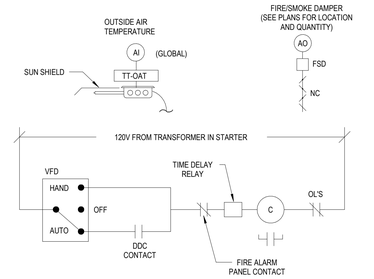
VOLUMETRIC TRACKING
THE RETURN AIR FAN VFD SHALL BE CONTROLLED FROM AN OUTSIDE AIR QUANTITY SOFTWARE SET POINT (SCHEDULED OUTSIDE AIR QUANTITY, ADJ.) USING AIRFLOW MEASURING DEVICES AND TRANSMITTERS AM-SA AND AM-RA INSTALLED AT THE INLET OF THE SUPPLY AND RETURN FANS. AM-SA SHALL MEASURE THE TOTAL AIRFLOW OF THE SUPPLY FAN AND AM-RA SHALL MEASURE THE TOTAL AIRFLOW OF THE RETURN FAN. THE AIRFLOW MEASURING TRANSMITTERS SHALL OUTPUT THE TOTAL CFM READING TO THE DDC SYSTEM. THE DDC SYSTEM SHALL CALCULATE THE DIFFERENCE OF THE TOTAL SUPPLY AIR AND THE TOTAL RETURN AIR TO MAKE AN OUTSIDE AIR QUANTITY SOFTWARE POINT. THE DDC SYSTEM SHALL MODULATE THE SPEED OF THE RETURN AIR FAN VFD TO MAINTAIN THE CALCULATED OUTSIDE AIR QUANTITY WITHIN 2% OF THE OUTSIDE AIR QUANTITY SET POINT.

STATIC PRESSURE RESET
THE SUPPLY AIR STATIC PRESSURE SHALL BE RESET BASED ON THE TERMINAL BOX AIR DAMPER POSITION. THE STATIC PRESSURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND REDUCE STATIC PRESSURE OVER AN ADJUSTABLE TRANSITION TIME UNTIL ANY TERMINAL BOX AIR DAMPER HAS OPENED TO 95% (ADJ.). STATIC PRESSURE WILL INCREASE IN THE SAME MANNER WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 95%. ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE STATIC PRESSURE RESET CONTROL LOOP.

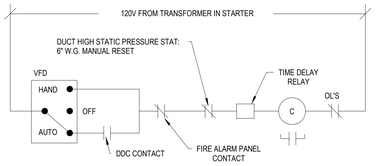
DISCHARGE AIR TEMPERATURE RESET
WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 65°F THE DISCHARGE AIR TEMPERATURE RESET CONTROL LOOP SHALL START. WHEN OUTDOOR AIR TEMPERATURE IS ABOVE 65°F THE RESET LOOP WILL BE OFF AND SYSTEM WILL REVERT BACK TO ORIGINAL DISCHARGE TEMPERATURE SETPOINT. THE DISCHARGE AIR TEMPERATURE IS RESET UP TO A MAXIMUM OF 60°F (ADJ.) WHEN ALL TERMINAL BOX REHEAT VALVES ARE ABOVE 5% OPEN (ADJ.). IF ANY TERMINAL BOX REHEAT VALVE IS BELOW 5% FOR AN ADJUSTABLE TRANSITION TIME THE DISCHARGE AIR TEMPERATURE WILL RESET DOWN. THE TEMPERATURE RESET LOOP WILL MAKE 1DEG INCREMENTAL CHANGES OVER A 1 HOUR (ADJ.) TIME PERIOD. ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE DISCHARGE TEMPERATURE RESET CONTROL LOOP.



RTU CONTROL SCHEMATIC



RETURN FAN RAF CONTROL



SUPPLY FAN SAF CONTROL

AIR HANDLER OPERATING STATES
THE AIR HANDLING UNIT SHALL OPERATE IN THREE DISTINCT STATES. CRITERIA TO TRANSITION BETWEEN STATES ARE INDICATED BELOW. TO TRANSITION BETWEEN STATES THE SPECIFIED CRITERIA SHALL BE MET FOR AN ADJUSTABLE MINIMUM PERIOD OF TIME REFERRED TO AS "TRANSITION TIME". EACH INDIVIDUAL OPERATING STATE TO HAVE AN INDIVIDUAL PID CONTROL LOOP FOR THAT STATE.

STATE 1 – FULL COOLING COIL
ECONOMIZER OUTSIDE AIR DAMPER AND RELIEF DAMPER SHALL BE CLOSED. THE DX COOLING SHALL BE CONTROLLED BY A CONTROL LOOP WITH THE DISCHARGE TEMPERATURE TRANSMITTER, TT-DAT, AD THE INPUT AND A SET POINT EQUAL TO THE DISCHARGE AIR SET POINT OF (55°F, ADJ.). ON A RISE IN TEMPERATURE ABOVE TT-DAT SET POINT, THE COMPRESSORS SHALL MODULATE UP. ON A FALL IN TEMPERATURE BELOW TT-DAT SET POINT, THE VALVE SHALL MODULATE DOWN. TT-DAT SHALL ALARM THE DDC SYSTEM WHENEVER THE DISCHARGE TEMPERATURE IS TOO HIGH OR LOW. THE COMPRESSOR CONTROL LOOP SHALL CONTROL THE LEAVING AIR TEMPERATURE WITHIN +/- 0.5°F.

TRANSITION FROM STATE 1 TO STATE 2 (FULL ECONOMIZER WITH COOLING COIL):
THERE SHALL BE AN ADJUSTABLE OUTSIDE AIR ECONOMIZER ENABLE TEMPERATURE (65°F) AND AN ADJUSTABLE DEAD BAND (+/-2°F). THE UNIT SHALL TRANSITION FROM STATE 1 TO STATE 2 WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER ENABLE TEMPERATURE LESS THE DEAD BAND (65°F – 2°F = 63°F) FOR AN ADJUSTABLE TRANSITION TIME (5 MINUTES).

TRANSITION FROM STATE 2 TO STATE 1:
THE UNIT SHALL TRANSITION FROM STATE 2 TO STATE 1 WHENEVER THE OUTSIDE AIR TEMPERATURE IS ABOVE THE ECONOMIZER ENABLE TEMPERATURE PLUS THE DEAD BAND (65°F + 2°F = 67°F) FOR AN ADJUSTABLE TRANSITION TIME (5 MINUTES).

STATE 2 – FULL ECONOMIZER WITH COOLING COIL
ECONOMIZER OUTSIDE AIR DAMPER AND RELIEF DAMPER SHALL BE FULLY OPEN. THE DX COOLING SHALL BE CONTROLLED BY A UNIT-LEVEL CONTROL LOOP WITH THE DISCHARGE TEMPERATURE TRANSMITTER, TT-DAT , AS THE INPUT, AND A SET POINT EQUAL TO THE DISCHARGE AIR SET POINT OF (55°F, ADJ.).

TRANSITION FROM STATE 2 TO STATE 3 (FREE COOLING):
THE UNIT SHALL TRANSITION FROM STATE 2 TO STATE 3 WHENEVER THE FOLLOWING OCCURS. THE COMPRESSOR CONTROL LOOP HAS A COOLING VALUE OUTPUT OF 0% FOR AN ADJUSTABLE TRANSITION TIME (5 MINUTES).

TRANSITION FROM STATE 3 TO STATE 2:
THE UNIT SHALL TRANSITION FROM STATE 3 TO STATE 2 WHENEVER THE FOLLOWING OCCURS. THE ECONOMIZER DAMPER CONTROL LOOP HAS AN OUTPUT OF 100% OPEN FOR AN ADJUSTABLE TRANSITION TIME (10 MINUTES).

STATE 3 – FREE COOLING:
THE MECHANICAL COOLING SHALL REMAIN DEACTIVED AND THE ECONOMIZER AIR DAMPER (D-EOA), RELIEF AIR DAMPER (D-REL), AND THE RETURN AIR DAMPER (D-RET) SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT THE DISCHARGE AIR TEMPERATURE SET POINT.

THE DISCHARGE AIR TEMPERATURE CONTROL LOOP SHALL HAVE THE UNIT DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-DAT) AS THE INPUT AND A SET POINT EQUAL TO THE COOLING COIL SET POINT (55°F). ON A RISE IN DISCHARGE AIR TEMPERATURE THE ECONOMIZER OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL MODULATE OPEN AND THE RETURN AIR DAMPER SHALL MODULATE CLOSED. ON A FALL IN DISCHARGE AIR TEMPERATURE THE ECONOMIZER OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL MODULATE CLOSED AND THE RETURN AIR DAMPER SHALL MODULATE OPEN. DAMPERS SHALL MAINTAIN DAT TO WITHIN +/- ½ °F OF SET POINT.

MIXED AIR LOW LIMIT CONTROL
THE MIXED AIR LOW LIMIT CONTROL LOOP SHALL BE OPERATIVE AT ALL TIMES WHEN THE UNIT IS IN ANY STATE, INCLUDING WHEN THE UNIT IS DE-ENERGIZED, TO MAINTAIN A MINIMUM MIXED AIR TEMPERATURE. THE MIXED AIR LOW LIMIT CONTROL LOOP SHALL HAVE THE MIXED AIR TEMPERATURE TRANSMITTER (TT-MAT) AS INPUT. AT A MIXED AIR TEMPERATURE OF 40°F (ADJ.) THE BAS SHALL ALARM AND DISABLE/CLOSE THE ECONOMIZER DAMPERS REVERTING TO MINIMUM OUTSIDE AIR OPERATION. SOFTWARE RESET BY THE MAINTENANCE STAFF SHALL BE REQUIRED TO RETURN TO NORMAL OPERATION.

FILTERS
ALL FILTERS SHALL HAVE A DIFFERENTIAL PRESSURE SWITCH (DPS-FIL & DPS-PFL) MEASURING THE PRESSURE DROP ACROSS THE FILTER BANKS. EACH SHALL ALARM THE DDC SYSTEM WHENEVER THE PRESSURE DROP ACROSS THE FILTER IS EXCESSIVE (DIRTY FILTER) (ADJ.).

FIRE ALARM SHUTDOWN
WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL COMPLETE THE FOLLOWING.

THE FIRE ALARM SYSTEM IS TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING.
- SHUTDOWN THE SUPPLY AIR FAN.
- SHUTDOWN THE RETURN AIR FAN.
- SHUTDOWN THE ASSOCIATED EXHAUST FANS.

THE DDC SYSTEM IS TO PERFORM THE FOLLOWING UPON A LOSS OF SUPPLY FAN STATUS.
- DEACTIVE MECHANICAL COOLING.
- CLOSE THE RELIEF AIR DAMPER (D-REL).
- CLOSE THE OUTSIDE AIR DAMPER (D-MIN).
- CLOSE THE ECONOMIZER DAMPER (D-EOA).
- OPEN THE RETURN AIR DAMPER (D-RET).

PROGRAM DESIGN
WHEN THE SUPPLY FAN IS STARTED, THE AHU SHALL ALWAYS GO TO STATE 1 WITHOUT ENABLING THE DX COOLING. THE UNIT SHALL OPERATE IN STATE 1 FOR A 4 MINUTE TIME PERIOD (ADJ.). AFTER THE 4 MINUTE TIMER HAS EXPIRED ONE OF THE FOLLOWING SHALL OCCUR:
- IF THE OAT IS EQUAL TO OR GREATER THAN 52°F (ADJ.) THE UNIT SHALL REMAIN IN STATE 1 UNTIL IT TRANSITIONS TO ANOTHER OPERATING STATE PER THE DETAILED SEQUENCES ABOVE OR,
- IF THE OAT IS LESS THAN 52°F (ADJ.) THE UNIT SHALL TRANSITION TO STATE 3 AND REMAIN IN STATE 3 UNTIL IT TRANSITIONS TO ANOTHER OPERATING STATE PER THE DETAILED SEQUENCES ABOVE.
- THIS AHU SEQUENCE OF OPERATION SHALL INITIATE THE OPERATION OF THE MECHANICAL COOLOING, IF IT IS NOT ALREAD IN OPERATION, IF THE AHU TRANSITIONS FROM STATE 3 TO STATE 2.

ALL TIMERS AND OTHER SPECIFIED PARAMETERS ARE TO BE INDEPENDENTLY ADJUSTABLE.

SOFTWARE STATUS POINTS SHALL BE CREATED FOR THE FOLLOWING LOCKOUTS AND FINITE STATES. THE CURRENT STATUS OF THE SOFTWARE LOCKOUT POINTS, ENABLED OR DISABLED, SHALL BE DISPLAYED AT THE BAS/FMS FRONT END:
- ECONOMIZER DAMPERS FULLY OPEN LOCKOUT
- ECONOMIZER DAMPERS FULLY CLOSED LOCKOUT
- STATE #1
- STATE #2
- STATE #3

THE AHU SHALL RESTART AUTOMATICALLY AFTER A MOMENTARY POWER FAILURE OR AFTER TRANSFER TO AN ALTERNATE POWER SOURCE AND OPERATE IN THE SAME STATE IT WAS IN PRIOR TO THE POWER FAILURE OR TRANSFER OF POWER.

EXHAUST FANS
EXHAUST FANS TO BE ENERGIZED WHEN RESPECTIVE SUPPLY AIR FAN IS ENERGIZED. SEE PLANS FOR WHICH FANS ARE ASSOCIATED WITH WHICH AIR HANDLING UNITS (EXAMPLE: EF3-1 IS INTERLOCKED WITH AHU-3). EXCEPTION--ISOLATION ROOM EXHAUST FANS SHALL OPERATE CONTINUOUSLY.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments for Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

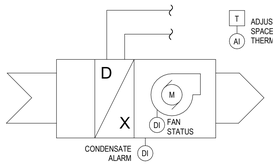
M5.01

MECHANICAL - CONTROLS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH D SHEETS

EMS POINT SUMMARY

POINT DESCRIPTION	HARDWARE: OUTPUT (O) DIGITAL: CONTROL RELAY	SOLENOID	CONTACTOR	OUTPUT (O) ANALOG: SPACE TEMP CONTROL	DCC CONTROL SIGNAL	4-20MA SIGNAL	HARDWARE: INPUT (T,D,V,C) DIGITAL: DIFFERENTIAL PRESS SWITCH	FLOW SWITCH	SWITCH CLOSURE	AUXILIARY CONTACT	CURRENT RELAY	ALARM CONDITION	INPUT (T,D,V,C) ANALOG: TEMPERATURE	RELATIVE HUMIDITY	PRESSURE (IN WG)	POSITION	FLOW	AMPERES	ALARMS DIGITAL: EQUIPMENT STATUS	MAINTENANCE	ALARMS ANALOG: HIGH LIMIT	LOW LIMIT	RUN TIME	LOG DATA	SOFTWARE FUNCTIONS: SCHEDULED START/STOP	OPTIMUM START/STOP	VAV CALIBRATION	TREND: DIFFERENTIAL FLOW	DAYNIGHT SETBACK	ECONOMIZER	VENTILATION/RECIRCULATION	TEMPERATURE CONTROL	ENTHALPY	SUP AIR CFM	REHEAT COIL RESET	VOLUME CONTROL	DAMPER POSITION	VALVE POSITION	CHILLER OPTIMIZATION	CHILLED WATER RESET	CONDENSER WATER RESET	CHILLER DEMAND LIMIT	VFD CONTROL	ALARM CONDITION
TYPICAL AC UNIT																																												
EVAPORATOR START/STOP			●																																									●
EVAPORATOR STATUS												●							●					●	●																			
CONDENSING UNIT START/STOP			●																																									●
CONDENSING UNIT STATUS												●							●					●	●																			
TYPICAL SMOKE DETECTOR																			●																	●								



SPLIT SYSTEM UNIT CONTROL

SEQUENCE OF OPERATION:

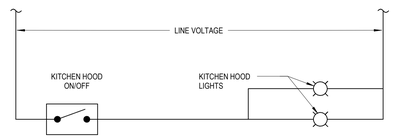
1. UNIT OPERATES TO MAINTAIN SPACE COOLING AND HEATING REQUIREMENTS VIA ONBOARD CONTROLLER AND ADJUSTABLE THERMOSTAT WITH BAS INPUT.
2. START/STOP, FAN STATUS, AND SETPOINT MONITORING AND ADJUSTMENT SHALL BE AVAILABLE THROUGH BAS VIA BACNET INTERFACE. CONDENSATE OVERFLOW AND SYSTEM FAULT TO SEND ALARM THROUGH BAS.
3. FIRE ALARM TO SHUTDOWN UNIT FAN VIA SMOKE DETECTOR AT UNITS OR SIGNAL FROM ALARM PANEL.
4. HIGH SPACE TEMPERATURE SHALL SIGNAL ALARM TO BAS.

EMS POINT SUMMARY KITCHEN EXHAUST

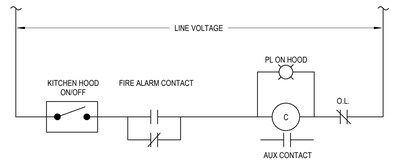
	TAG	INPUTS: ANALOG MEASURED: TEMPERATURE	PRESSURE	HUMIDITY (RH)	AIR FLOW	AIR QUALITY	KW	DDC GATEWAY	DAMPER POSITION	CURRENT SENSOR (AMPS)	ANALOG CALCULATED: KWH	ENTHALPY	RUN TIME	EFFICIENCY	AIR FLOW (CFM)	INPUTS: DIGITAL: STATUS (DIFF. PRESS.)	STATUS (CURRENT SWITCH)	SMOKE	LOW TEMP.	AIR FLOW	END SWITCH	FIRE ALARM	PRESSURE	OUTPUTS: DIGITAL: ON-OFF	OFF-AUTO-ON	OFF-HIGH-LOW	OPEN-CLOSE	DAMPER POSI.	OUTPUTS: ANALOG: VALVE POSI.	SET POINT ADJ.	4-20 mA	SYSTEM FEATURES: ALARMS: HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	MANUAL RESET	AUTO RESET	PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	START/STOP OPTIM.	ENTHALPY OPTIM.	SMOKE CONTROL	TREND	ALARM INSTRUCTION	GENERAL
SMOKE DAMPER (TYP.)	---																										●														●		
KITCHEN EXHAUST FAN STATUS (TYP.)	STS-KEF									●																														●	✳	
RETURN DAMPER CONTROL (TYP.)	D-RET								●																		●														●	●	
MAKEUP AIR UNIT STATUS (TYP.)	STS-MAU									●																															●	●	
MAKEUP AIR UNIT (TYP.)																																												
O.A. TEMPERATURE	TT-OAT	●																																							●		
LOW STATIC	SPS RLO		●																				●																		●	●	
O.A. DAMPER	D-MIN																					●					●														●	●	
FILTER STATUS	DPS-FIL															●																									●	●	
ENTERING AIR TEMPERATURE	TT-EAT	●																																							●	●	
DX COOLING CONTROL	CU									●		●												●	●					●	●									●	●	
SUPPLY FAN VFD	VFD-SAF					●	●																	●																●	●	
SUPPLY FAN STATUS	STS-SAF															●																									●	●	
SUPPLY AIR FLOW	AM-SA			●			●																																		●		
HI STATIC	STS-SHI																						●																		●	●	
UNIT DISCHARGE TEMPERATURE	TT-DAT	●																																							●	●	
SUPPLY STATIC	SPT-SA		●																																						●	●	
SUPPLY SMOKE DETECTOR	SD-SA																						●																		●	●	
FIRE ALARM	---																						●																		●	●	

REMARKS:

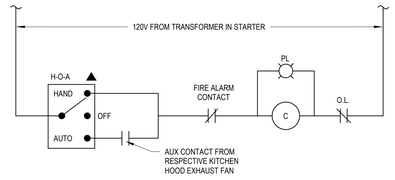
1. PROVIDE TEMPERATURE SENSOR ON DISCHARGE OF EACH VAV TERMINAL BOX. (REFER TO PLANS FOR NUMBER REQUIRED)
2. PROVIDE SEPARATE O.A. TEMP. READOUT FOR EACH AHU.
3. REFER TO DRAWINGS FOR NUMBER OF EXHAUST FANS INTERLOCKED WITH EACH AHU.
4. PROVIDE DOOR SWITCH INTERLOCKED WITH PRESSURE MONITOR TO DISABLE MONITOR ALARM WHEN DOOR IS OPEN.
5. ✳ PROVIDE BELT BREAK ALARM WHERE APPLICABLE.



KITCHEN HOOD LIGHT CONTROL



KITCHEN HOOD EXHAUST FAN CONTROL

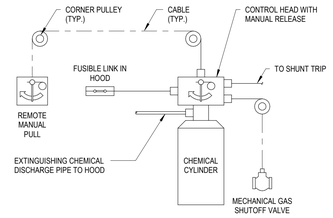


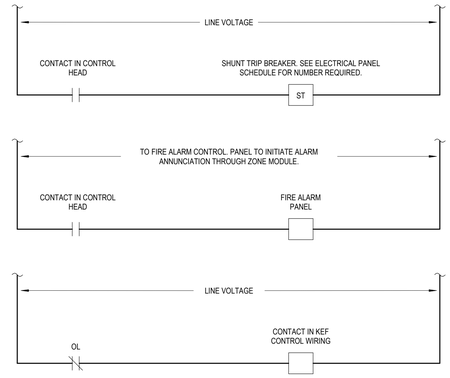
MAKEUP AIR UNIT (MAU) CONTROL

KITCHEN & SERVERY EXHAUST HOOD CONTROL

SEQUENCE OF OPERATIONS:

1. MAKEUP AIR UNIT (MAU) SHALL BE PROVIDED WITH UNIT-MOUNTED MICROPROCESSOR CONTROLLER INTERFACE TO BUILDING ENERGY MANAGEMENT SYSTEM VIA ENERGY MANAGEMENT GATEWAY OR BACNET INTERFACE.
2. MAU TO BE ENERGIZED/DE-ENERGIZED BY THE VFD IN THE HAND POSITION OR BY VIA THE RESPECTIVE KITCHEN HOOD CONTACT IN THE AUTO POSITION.
3. CONTROLLER TO MODULATE MECHANICAL COOLING OR HEATING AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SEPOINT OF 60°F (ADJ.)
4. WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL SIGNAL THE DDC SYSTEM. THE DDC SYSTEM IS TO DE-ENERGIZE THE UNIT.
5. OUTSIDE AIR DAMPER TO BE OPEN WHEN UNIT IS ENERGIZED AND CLOSED WHEN UNIT IS DE-ENERGIZED.
6. KITCHEN HOOD SHALL ADJUST THE OUTSIDE AIR SOFTWARE SETPOINT OF RTU-3 AS FOLLOWS:
   A. WHEN KEF-1 IS ENERGIZED, ADD 750 CFM TO SETPOINT VALUE. SUBTRACT WHEN DE-ENERGIZED.



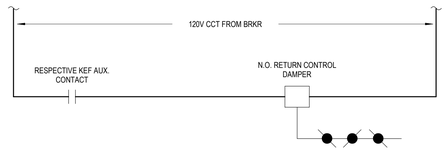


TYPICAL KITCHEN & SERVERY HOOD FIRE PROTECTION

NOTES:

1. FIRE PROTECTION SYSTEM TO BE INSTALLED PER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L.
2. PROVIDE A DUMMY DUMP ON HOOD FIRE SYSTEM USING A COMPRESSED AIR TANK FOR THE REQUIRED AUTHORITIES HAVING JURSIDICTION.
3. RESPECTIVE MAU TO BE SHUT DOWN BY THE FIRE ALARM PANEL DURING AN ALARM CONDITION.
4. RESPECTIVE KEF TO BE ENERGIZED BY HOOD FIRE SUPPRESSION SYSTEM.
5. KITCHEN HOOD FIRE SUPPRESSION SYSTEM MANUAL ACTUATION DEVICE SHALL BE AT OR NEAR A MEANS OF EGRESS FROM COOKING AREA, A MINIMUM OF 10 FEET AND A MAXIMUM OF 20 FEET FROM THE KITCHEN EXHAUST SYSTEM AND SHALL BE LOCATED BETWEEN 42" AND 48" ABOVE FINISHED FLOOR.

(HOOD FIRE PROTECTION PROVIDED BY KITCHEN VENDOR.)



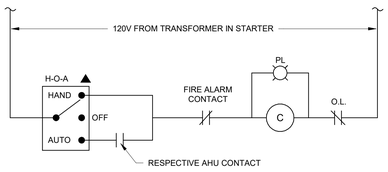
KITCHEN RETURN CONTROL DAMPER CONTROL

SEQUENCE OF OPERATIONS

1. RETURN DAMPER SHALL BE INTERLOCKED WITH RESPECTIVE KITCHEN HOOD EXHAUST FAN. WHEN FAN IS ENERGIZED, RETURN DAMPER SHALL CLOSE.

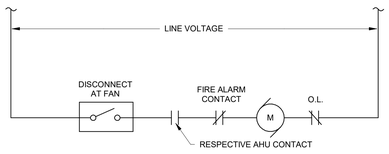
CONTROLS LEGEND

- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- T — THERMOSTAT
- M — MOTOR
- C — CONTACTOR
- PL — PILOT LIGHT



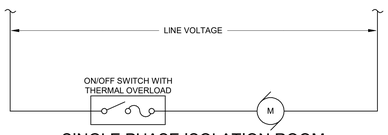
THREE PHASE EXHAUST FAN CONTROL

(PROVIDE BELT BREAK ALARM WHERE APPLICABLE)



SINGLE PHASE EXHAUST FAN CONTROL

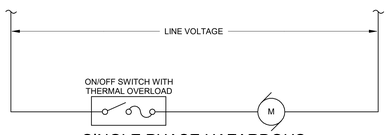
(PROVIDE BELT BREAK ALARM WHERE APPLICABLE)



SINGLE PHASE ISOLATION ROOM EXHAUST FAN CONTROL

(FAN TO RUN CONTINOUSLY)

(PROVIDE BELT BREAK ALARM WHERE APPLICABLE)



SINGLE PHASE HAZARDOUS EXHAUST FAN CONTROL

(FAN TO RUN CONTINOUSLY)

(PROVIDE BELT BREAK ALARM WHERE APPLICABLE)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments for Health, LLC

exalt health

RYAN

I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

M5.02

MECHANICAL - CONTROLS

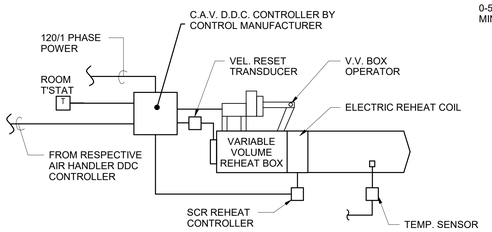
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE

EMS POINT SUMMARY
TYPICAL REHEAT BOX

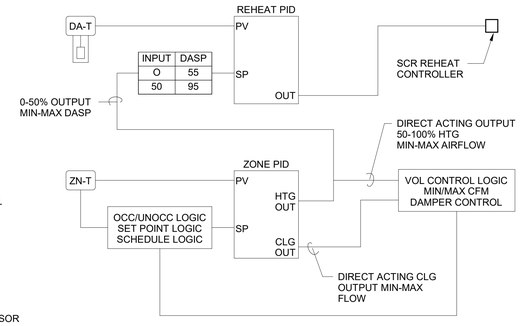
POINT DESCRIPTION	HARDWARE: OUTPUT (O) DIGITAL: Control Relay	Solenoid	Contactor	OUTPUT (O) ANALOG: Space Temp Control	DCC Control Signal	4-20MA Signal	INPUT (T,D,V,C) DIGITAL: Differential Press Switch	Flow Switch	Switch Closure	Auxiliary Contact	Current Relay	Alarm Condition	INPUT (T,D,V,C) ANALOG: Temperature	Relative Humidity	Pressure	Position	Flow	Amperes	SOFTWARE: ALARMS DIGITAL: Equipment Status	Maintenance	ALARMS ANALOG: High Limit	Low Limit	Run Time	FUNCTIONS: Log Data	Scheduled Start/Stop	Optimum Start/Stop	Override Schedule	Trend Differential Flow	Day/Night Setback	Economizer	Ventilation/Recirculation	Temperature Control	Enthalpy	Sup Air CFM	Reset Control	Volume control	Damper Position	Valve Position	Chiller Optimization	Chilled Water Reset	Condenser Water Reset	Chiller Demand Limit	VFD Control	Alarm Condition
REHEAT VAV BOX AND SUPPLY TRACKING VALVES:																								●																				
SPACE TEMPERATURE SETPOINT (ADJ)				●									●											●																				
ACTUAL BOX CFM																	●							●																				
BOX CFM MINIMUM																								●				●				●												
BOX CFM MAXIMUM																								●				●				●												
DAMPER POSITION																●								●														●						
COMMANDED DAMPER POSITION					●																			●																				
SUPPLY AIR TEMPERATURE TO SPACE													●									●		●																				
SCR REHEAT CONTROL				●	●											●								●								●												
VAV BOX CALIBRATION																										●																	

REMARKS:

1. CONTROLS CONTRACTOR SHALL PROVIDE OPTION TO CALIBRATE ALL REHEAT BOXES WITHOUT CLOSING BOX DAMPERS.
2. ALL REHEAT BOXES TO BE CONTROLLED AS INDICATED ABOVE. CONTRACTOR TO VERIFY NUMBER OF BOXES BEING PROVIDED ON PROJECT.
3. PROVIDE TEMPERATURE SENSOR ON DISCHARGE OF EACH VAV TERMINAL BOX. (REFER TO PLANS FOR NUMBER REQUIRED)



TYPICAL VARIABLE VOLUME REHEAT BOX CONTROL

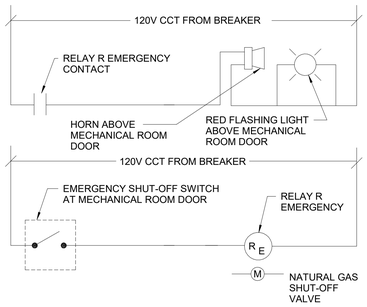


DUAL PID TERMINAL UNIT - ELEMENTAL LOGIC DETAIL

EMERGENCY MECHANICAL ROOM SHUT-OFF CONTROL

SEQUENCE OF OPERATION

1. WHEN ENABLED BY PUSH BUTTON, ENABLE AUDIBLE AND VISUAL ALARMS OUTSIDE DOOR TO MECHANICAL ROOM AND ALARM AT MAINTENANCE OFFICE AND PBX. EMERGENCY SHUT OFF TO SHUT MAIN NATURAL GAS SHUT OFF VALVE TO GAS FIRED DOMESTIC WATER HEATER.
2. SYSTEM WILL REQUIRE A MANUAL RESET.



DUAL PID VAV SEQUENCE OF OPERATION:

1. PROVIDE A 2 DEG F MINIMUM DEADBAND BETWEEN THE HEATING AND COOLING SPACE TEMPERATURE SETPOINTS. WHEN THE SPACE TEMPERATURE IS IN THE DEAD BAND, THE VAV SHALL PROVIDE MINIMUM COOLING AIR FLOW AND THE REHEAT COIL SHALL BE DE-ENERGIZED.

COOLING MODE:

1. ON A RISE IN ROOM TEMPERATURE ABOVE THE COOLING SETPOINT THE LOCAL CONTROLLER WILL SHIFT TO COOLING CONTROL LOGIC AFTER AN ADJUSTABLE TIME DELAY (5 MIN).
2. AFTER THE TIME DELAY HAS EXPIRED AND THE MODE HAS CHANGED TO COOLING, THE FLOW SETPOINT WILL CHANGE TO THE COOLING MINIMUM CFM SETPOINT.
3. ON AN INCREASE IN THE ZONE PID COOLING OUTPUT, THE VOLUME CONTROL SHALL INCREASE FROM THE MINIMUM COOLING FLOW TO THE MAXIMUM COOLING FLOW.
4. ON A DECREASE IN THE ZONE PID COOLING OUTPUT, THE INVERSE CONTROL WILL OCCUR AND REDUCE THE COOLING FLOW FROM MAXIMUM COOLING FLOW TO MINIMUM COOLING FLOW. ON A FURTHER REDUCTION IN ZONE TEMPERATURE BELOW THE ZONE HEATING SETPOINT THE VAV CONTROLLER WILL SHIFT THE MODE TO THE HEATING CONTROL LOGIC AFTER AN ADJUSTABLE TIME DELAY (5 MIN).

HEATING MODE:

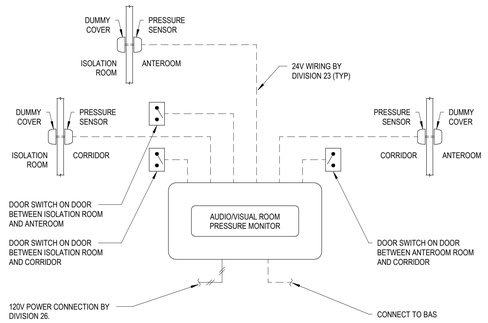
1. ON A DROP IN ROOM TEMPERATURE BELOW THE HEATING SETPOINT THE ZONE PID CONTROL HEATING OUTPUT WILL INCREASE.
2. ON AN INCREASE IN THE ZONE PID HEATING OUTPUT FROM 0-50%, THE REHEAT PID DISCHARGE SETPOINT WILL INCREASE FROM MINIMUM TO MAXIMUM DISCHARGE AIR TEMPERATURE SETPOINT, INITIALLY SET AT 55 DEG F (MIN - ADJ.) AND 95 DEG F (MAX - ADJ.). THE BOX CONTROLLER WILL MODULATE THE REHEAT COIL FROM 0 TO 100% OUTPUT IN RESPONSE TO PID HEATING OUTPUT.
3. WITH THE HEATING COIL AT 100% OUTPUT, AND ON A FURTHER INCREASE IN THE ZONE PID HEATING OUTPUT FROM 50-100% THE VOLUME CONTROL SHALL INCREASE FROM THE MINIMUM HEATING AIR FLOW TO THE MAXIMUM HEATING AIR FLOW.
4. ON AN INCREASE IN ZONE TEMPERATURE THE INVERSE CONTROL WILL OCCUR: FIRST REDUCING HEATING AIR VOLUME FROM MAXIMUM TO MINIMUM HEATING AIR FLOW. THEN REDUCING THE REHEAT PID LOOP SETPOINT AND REHEAT COIL FROM MAXIMUM TO MINIMUM. WITH THE ZONE PID TEMPERATURE WITHIN THE DEADBAND REGION AND THE ZONE HEATING OUTPUT AT "0"%, THE VAV BOX WILL OPERATE AT MINIMUM HEATING FLOW WITH MINIMUM REHEAT PID SETPOINT.

UNOCCUPIED MODE/OCCUPANCY OVERRIDE:

1. THE SEQUENCES ABOVE DESCRIBE THE OCCUPIED COOLING AND HEATING OPERATION MODES. VAV BOX CONTROLS SHALL INCLUDE THE ABILITY TO RESET SPACE TEMPERATURE SET POINTS BASED ON A PRESET SCHEDULE TO A USER ADJUSTABLE UNOCCUPIED COOLING AND HEATING SET POINT.
2. WHEN ACTIVATED BY BAS TIME SCHEDULE, THE VAV BOX SHALL OPERATE WITH COOLING AND HEATING MODES AS DESCRIBED ABOVE WITH ROOM TEMPERATURE SETPOINT EQUAL TO UNOCCUPIED COOLING AND UNOCCUPIED HEATING SETPOINTS INITIALLY SET AT 80 DEG F COOLING (ADJ.) AND 65 DEG F HEATING (ADJ.).
3. AN OVERRIDE PUSHBUTTON ON THE THERMOSTAT SHALL SWITCH THE SPACE TO OCCUPIED MODE FOR ATIME PERIOD OF 4 HOURS (ADJ.). WHERE APPLICABLE, ACTIVATION OF THE OCCUPIED OVERRIDE SWITCH SHALL COMMAND ASSOCIATED AIR HANDLER INTO OCCUPIED MODE. REFER TO AHU SEQUENCE OF OPERATION FOR REQUIRED OCCUPIED/UNOCCUPIED MODE OF OPERATION.

NOTES:

1. MULTIPLE TERMINAL UNITS SERVED FROM A SINGLE THERMOSTAT SHALL OPERATE FROM ONE MASTER CONTROLLER. REMAINING CONTROLLERS TO BE SLAVE AND SHALL OPERATE TO MAINTAIN THE MASTER CONTOLLER OUTPUT FOR REHEAT VALVE AND DAMPER POSITION.



ISOLATION / ANTE ROOM PRESSURE MONITOR CONTROL

NOTES:
1. PRESSURE SENSOR TO BE MOUNTED HALFWAY BETWEEN TOP OF DOOR JAMB AND CEILING WITHIN THE CONTROLLED SPACE. DUMMY COVER MOUNTED IN REFERENCE SPACE.
2. PRESSURE MONITOR TO BE MOUNTED 60"-72" A.F.F.
3. MINIMUM PRESSURE DIFFERENTIAL TO BE -0.01"

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

M5.03

MECHANICAL - CONTROLS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" ON ORIGINAL ARCHITECTURAL SHEETS

PROJECT DESCRIPTION:
THE SCOPE OF WORK INCLUDES A NEW CONSTRUCTION SINGLE STORY PHYSICAL REHABILITATION HOSPITAL OF APPROXIMATELY 39,207 SF IN RIVERVIEW, FLORIDA. THE FACILITY WILL HAVE 40 PRIVATE INPATIENT ROOMS, INPATIENT THERAPY GYM AND ADL SUITE, FULL-SERVICE KITCHEN, DINING AREA, ADMIN SUITE, AND PUBLIC WAITING AREA WITH RECEPTION.

THE SCOPE OF WORK ALSO INCLUDES MECHANICAL ROOFTOP UNITS, AN EMERGENCY GENERATOR, AND O2 STORAGE.

I. APPLICABLE CODES:

STATE HEALTH (AHCA) -

A.2023 FLORIDA BUILDING CODE - 8TH EDITION
(FBC, INCLUDES SECTION 449 - HOSPITALS)
B. 2023 FLORIDA BUILDING CODE - MECHANICAL
C. 2023 FLORIDA BUILDING CODE - PLUMBING
D. 2020 NFPA 70 - NATIONAL ELECTRICAL CODE
E. 2023 FLORIDA BUILDING CODE - FUEL GAS
F. 2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION
G. 2023 FLORIDA BUILDING CODE - ACCESSIBILITY
H. 2023 FLORIDA BUILDING CODE - TEST PROTOCOLS
I. 2023 FLORIDA FIRE PREVENTION CODE INCLUDING 2018 NFPA 1 FIRE CODE
J. 2021 NFPA 101 LIFE SAFETY CODE (LSC) AND REFERENCED NFPA STANDARDS
INCLUDING 2021 NFPA 99 - HEALTH CARE FACILITIES
K. FLORIDA STATE FIRE CODES ADOPTED BY THE FIRE MARSHAL PER RULE 69A-3.012.
2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS
2019 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
2021 NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS
2016 NFPA 55 COMPRESSED GASES AND CRYOGENIC FLUIDS CODE
2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
2018 NFPA 90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
2018 NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS
2017 NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
2019 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
2020 NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTING PROTECTION SYSTEMS
L. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS, 2022 ED.
M. ASTM E96 (2016) - WATER VAPOR TRANSMISSION
N. ASCE 7 (2022) WITH SUPPLEMENT NO. 1- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
O. ANSI/ASHRAE/ASHE STANDARD 170 (2021) - VENTILATION OF HEALTHCARE FACILITIES
P. 2010 ADA GUIDELINES

FEDERAL CMS AND JOINT COMMISSION -

A. 2012 NFPA 99 HEALTH CARE FACILITIES CODE
B. 2012 NFPA 101 LIFE SAFETY CODE WITH CMS POLICIES

II. OCCUPANCY TYPES:

A. INSTITUTIONAL - GROUP I-2, CONDITION 2 (FBC-2023 308.4)
B. NEW HEALTH CARE - HOSPITAL (LSC-2021 CH. 18)

III. CONSTRUCTION TYPE:

A. TYPE II B (FBC-2023 TABLE 601)
B. TYPE II (0, 0, 0) (NFPA 220)

IV. STRUCTURAL FIRE RATINGS:

PRIMARY STRUCTURAL FRAME: 0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS: 0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS: 0 HR

V. FIRE SUPPRESSION SYSTEM:

COMPLETE AUTOMATIC SPRINKLER PROTECTION TO BE PROVIDED FOR BUILDING PER FBC-2023 903.2.6 AND LSC-2021 18.3.5.1.

VI. HEIGHT AND AREA

MAX. ALLOWABLE AREA PER FLOOR: 44,000 (FBC-2023 TABLE 506.2)
MAX. NUMBER OF STORIES: 3 STORIES (FBC-2023 TABLE 504.4)
MAX. ALLOWABLE HEIGHT: 55 FT (FBC-2023 504.3A)
ACTUAL GROSS BUILDING AREA:
TOTAL AREA: 39,289 SF
ACTUAL BUILDING HEIGHT: 24 FT (1 STORIES)

GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

A. IN AREAS WITH HARD CEILINGS, ELECTRICAL CONTRACTOR IS TO PROVIDE FLANGE TYPE EQUIVALENT TO GRID TYPE AS SHOWN ON FIXTURE SCHEDULE AND FLOOR PLANS. COORDINATE WITH REFLECTED CEILING PLANS PRIOR TO SUBMITTAL PACKAGE.

B. REFER TO ARCHITECTURAL RCP AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VA	TEMP	VOLTS	LUMENS	MOUNT	REMARKS
1	KENALL	MPCADE24-G/F-2SL/45L/90L-40K8-40K8-DCC-DV-LVCD	167 VA	4000K	120/277	16444	RECESSED	PATIENT ROOM MULTI-FUNCTION 2X4
6	HEALTHCARE LTG	HNLS13-6LONG-MVOLT-AMB-ZT-MIN5-WL-MWAM	5 VA	AMBER	120/277	194	RECESSED	NIGHT LIGHT
10	LITHONIA	EPANL-2X2-4000LM-80CRI-40K-MIN1-WZT-MVOLT	37 VA	4000K	120/277	4121	RECESSED	2x2' LED LENSED - 4000 LUMENS
12	LITHONIA	EPANL-2X4-4000LM-80CRI-40K-MIN1-WZT-MVOLT	31 VA	4000K	120/277	4042	RECESSED	2x4' LED LENSED - 4000 LUMENS
13	LITHONIA	EPANL-2X4-6000LM-80CRI-40K-MIN1-WZT-MVOLT	50 VA	4000K	120/277	6548	RECESSED	2x4' LED LENSED - 6000 LUMENS
20	LITHONIA	STAK-2X2-4000LM-80CRI-40K-COLT-MVOLT	33 VA	4000K	120/277	4155	RECESSED	2x2' LED VOLUMETRIC - 4000 LUMENS
30	LITHONIA	CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH-HC36	35 VA	4000K	120/277	4902	CHAIN	4' STRIP LIGHT
35	HEALTHCARE LTG	HUC523-MVOLT-LED40-S1-AM	40 VA	4000K	120/277	1221	SURFACE	2' UNDERCABINET LIGHT WITH ROCKER SWITCH
42	LITHONIA	LDN6-35/25-L06-AR-LSS-TRW-MVOLT-EZ1	28 VA	3500K	120/277	2504	RECESSED	6" DIMMABLE LED DOWNLIGHT - 3500K/2500 LUMENS
44	LITHONIA	LDN4-35/15-L06-AR-LSS-TRW-MVOLT-EZ1	17 VA	3500K	120/277	1514	RECESSED	4" DIMMABLE LED DOWNLIGHT - 3500K/1500 LUMENS
53A	MARK LIGHTING	SL4L-LOP-FT-FLP-80CRI-40K-400LMF-MIN1-120/SLVT-ZT-WL					RECESSED	PRICE P/FT 4" SLOT LED FOR EXTERIOR CANOPIES - SPECIFY LENGTH, FLUSH LENS, CONSULT MANUFACTURER FOR TRIM RECOMMENDATION (METAL PANEL SOFFIT)
53B	MARK LIGHTING	SL4L-LOP-6FT-FLP-80CRI-40K-400LMF-MIN1-120/BLKT-ZT					RECESSED	PRICE P/FT 4" SLOT LED FOR LOBBY CEILING - 6' LENGTH, FLUSH LENS, CONSULT MANUFACTURER FOR TRIM RECOMMENDATION (RULON WOOD PANEL CEILING)
53C	MARK LIGHTING	SL4L-LOP-FT-FLP-TG-80CRI-40K-400LMF-MIN1-120-ZT					RECESSED	PRICE P/FT 4" SLOT LED FOR LAY-IN CEILINGS - SPECIFY LENGTH, FLUSH LENS
53D	MARK LIGHTING	SL4L-LOP-FT-FLP-GB-80CRI-40K-400LMF-MIN1-120-ZT					RECESSED	PRICE P/FT 4" SLOT LED FOR GYPSUM CEILINGS - SPECIFY LENGTH, FLUSH LENS.
53E	MARK LIGHTING	SL4L-LOP-FT-FLP-GB-80CRI-40K-400LMF-MIN1-120-ZT					RECESSED	PRICE P/FT 4" SLOT LED FOR NURSE STATION GYPSUM CEILINGS - SPECIFY LENGTH, FLUSH LENS. FIXTURE TO BE SUPPLIED WITH CONTINUOUS DIFFUSER AND 90 DEGREE MITERED CORNERS.
71	LITHONIA	<varies>	2 VA	<varies>	120/277		SURFACE	SINGLE SIDED EXIT SIGN (WHITE - RED LETTERS)-CHEVRONS PER PLANS
72	LITHONIA	EDG-W-2-R	2 VA	N/A	120/277		SURFACE	DOUBLE SIDED EXIT SIGN (WHITE - RED LETTERS)-CHEVRONS PER PLANS
75	LITHONIA	ELM1272-SD	11 VA				SURFACE	EMERGENCY LIGHT
81	LITHONIA	DSXW1-LED-P6-40K-70CRI-T3M-MVOLT-PE-E10WH-DDBXD	74 VA	4000K	120/277	7573	WALL	DECORATIVE WALL PACK WITH PHOTOCELL. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.
82	LITHONIA	ULW-10874-2/W-W40-X-120/277-A12891	39 VA				BOLLARD	SYMMETRIC LED BOLLARD
90	EUREKA	3165-IDHA-2XLED.4-40-120V-DV-SC-WH	13 VA	4000K	120/277	936	SURFACE	HORIZONTALLY MOUNTED ARCHITECTURAL VANITY LIGHT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
96	LUMENWERX	RIMMRP-3+4+5-ULO-90-16500-40K-UNV-D1-1C-RDB-*CANOPY FINISH*-*AC-SC-*CABLE LENGTH*-*FINISH*	190 VA	4000K	120/277		PENDANT	ARCHITECTURAL PENDANT

CONDUIT & WIRING

SYMBOL	DESCRIPTION
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT CONCEALED IN FLOOR/UNDER SLAB/UNDER GROUND
	HOMERUN CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONN. TO LIFE SAFETY BRANCH
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONN. TO LIFE SAFETY BRANCH
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT
U	EXIT LIGHT, CEILING MOUNTED
U	EXIT LIGHT, WALL MOUNTED
	TWO HEAD BATTERY POWERED EMERGENCY EGRESS LIGHT
"S"	LIGHTING FIXTURE TYPE DESIGNATION-SEE LIGHTING FIXTURE SCHEDULE
	AREA OR STREET LIGHT FIXTURE
	BOLLARD

LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION
S	SINGLE POLE LIGHT SWITCH (NORMAL/WHITE)
S_3	THREE-WAY TOGGLE SWITCH (NORMAL/WHITE)
S_D	UNIVERSAL DIMMER (NORMAL/WHITE)
S_{3D}	THREE-WAY UNIVERSAL DIMMER (NORMAL/WHITE)
S_V	WALL SWITCH VACANCY SENSOR (NORMAL/WHITE)
S_{VD}	WALL SWITCH VACANCY SENSOR W/DIMMING (NORMAL/WHITE)
S_{LVD}	WALL MOUNT LOW-VOLTAGE DIMMER (NORMAL/WHITE)
S_{LV}	WALL MOUNT LOW-VOLTAGE SWITCH (NORMAL/WHITE)
S	SINGLE POLE TOGGLE SWITCH (EMERGENCY/RED)
S_3	THREE-WAY TOGGLE SWITCH (EMERGENCY/RED)
S_D	UNIVERSAL DIMMER (EMERGENCY/RED)
S_{3D}	THREE-WAY UNIVERSAL DIMMER (EMERGENCY/RED)
S_V	WALL SWITCH VACANCY SENSOR (EMERGENCY/RED)
S_{VD}	WALL SWITCH VACANCY SENSOR W/DIMMING (EMERGENCY/RED)
S_{LVD}	WALL MOUNT LOW-VOLTAGE DIMMER (EMERGENCY/RED)
S_{LV}	WALL MOUNT LOW-VOLTAGE SWITCH (EMERGENCY/RED)
(VC)	CEILING MOUNTED VACANCY SENSOR
(OC)	CEILING MOUNTED OCCUPANCY SENSOR
(DL)	CEILING MOUNTED DAY-LIGHT SENSOR
(PE)	PHOTOCELL

MISCELLANEOUS

MGA	MEDICAL GAS ALARM
LPA	LINE PRESSURE ALARM
RGA	REMOTE GENERATOR ANNUNCIATOR
LCP	LOCAL CONTROL PANEL
DPA	DIFFERENTIAL PRESSURE ALARM
NCT	NURSE CALL TERMINAL
(SV)	SOLENOID VALVE
R	RELAY
J	JUNCTION BOX
LIM	REMOTE LINE ISOLATION MONITOR WITH MILLIMETER
RG	REMOTE RECEPTACLE GROUND JACK MODULE (ROOM GROUND POINT) SEE DETAIL
RG	REMOTE RECEPTACLE GROUND JACK MODULE (PATIENT GROUND POINT) SEE DETAIL
(C)	O.R. CLOCK/TIMER
	SHUNT TRIP EMERGENCY OFF BUTTON

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ABV	MOUNT ABOVE COUNTER
ABC	ABOVE CEILING
EDF	ELECTRIC DRINKING FOUNTAIN
EX	EXISTING TO REMAIN
FBE	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
FBO	FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
TR	TAMPER RESISTANT
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF, NEMA 3R

RECEPTACLE LEGEND

SYMBOL	DESCRIPTION	MOUNTING HT TO CENTERLINE UNO
	SIMPLEX RECEPTACLE, AMPERAGE, VOLTAGE, NEMA CONFIGURATION, AS NOTED	18"
	20A 120V. DUPLEX RECEPTACLE	18"
	20A 120V. DUPLEX RECEPTACLE ABOVE COUNTER	AS SPECIFIED
	20A 120V. QUADRAPLEX RECEPTACLE	18"
	20A 120V. QUADRAPLEX RECEPTACLE ABOVE COUNTER	AS SPECIFIED
	20A 120V. FLOOR BOX WITH (1) DUPLEX RECEPTACLE	
	20A 120V. FLOOR BOX WITH (2) DUPLEX RECEPTACLES	
	PLUGMOLD #3000 WITH HUBBELL 5352 DUPLEX 20A RECEPTACLES 24" ON CENTER	
E	EMERGENCY POWER	
GF	GROUND FAULT CIRCUIT INTERUPT	
TV	MOUNTED 6" TO CENTERLINE BELOW FINISHED CEILING	
WP	WEATHERPROOF WITH NEMA 3R ENCLOSURE	
IG	ISOLATED GROUND	
IM	RECEPTACLE FOR ICE MAKER	
REF	RECEPTACLE FOR REFRIGERATOR	
CM	RECEPTACLE FOR COFFEE MAKER	
MW	RECEPTACLE FOR MICROWAVE	
WC	RECEPTACLE FOR WARMING CABINET	
P	RECEPTACLE FOR PRINTER	
PM	RECEPTACLE FOR PATIENT MONITOR	
PT	RECEPTACLE FOR PATIENT TRACKER	
CC	RECEPTACLE FOR CRASH CART	
C	RECEPTACLE FOR COPIER	
TR	TAMPER RESISTANT RECEPTACLE	
SW	SWITCHED RECEPTACLE	
U	USB RECEPTACLE	
S	TAMPER PROOF / SAFETY TYPE	

POWER EQUIPMENT

SYMBOL	DESCRIPTION
	FACTORY WIRED CONTROLLER OR DISCONNECT CONNECTION, FBO.
	COMBINATION MOTOR STARTER DISCONNECT
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH, NON-FUSIBLE
	DISCONNECT SWITCH, FUSIBLE
(M)	MOTOR CONNECTION WITH APPROXIMATE HORSE-POWER SHOWN
PB	PULL BOX
S_T	THERMAL MOTOR SWITCH (NORMAL)
S_{TWP}	THERMAL MOTOR SWITCH, WEATHERPROOF (NORMAL)
S_T	THERMAL MOTOR SWITCH (EMERGENCY)
S_{TWP}	THERMAL MOTOR SWITCH, WEATHERPROOF (EMERGENCY)

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION	MOUNTING HT TO CENTERLINE UNO
L	FLASHING LIGHT - CEILING MOUNT (UON)	80"
L	CHIME/FLASHING LIGHT COMBINATION - CEILING MOUNT (UON)	80"
L	FLASHING LIGHT/HORN SIGNAL STATION - CEILING MOUNT (UON)	80"
L	FLASHING LIGHT SPEAKER SIGNAL STATION- CEILING MOUNT (UON)	80"
F	MANUAL PULL STATION	46"
SD	SMOKE DETECTOR	CEILING
DSD	DUCT-SMOKE DETECTOR (DAMPER) OR (EXHAUST)	———
HD	AUTOMATIC HEAT DETECTOR (RATE OF RISE TYPE)	———
SDE	SYSTEM CONNECTED SMOKE DETECTOR FOR FIREMAN'S RECALL	CEILING
FSD	FIRE SMOKE DAMPER	18"
DH	SMOKE DOOR HOLDER	6'-0"
TS	TAMPER SWITCH	———
FL	FLOW SWITCH	CEILING
PS	PRESSURE SWITCH	CEILING
M	CARBON MONOXIDE DETECTOR	CEILING
PIV	POST INDICATOR VALVE	———
DCV	DOUBLE DETECTOR CHECK VALVE	———
FACU	FIRE ALARM CONTROL UNIT	———
FAXP	FIRE ALARM EXPANDER	———
FAA	REMOTE ANNUNCIATOR	———
F	FIREFIGHTER'S PHONE JACK	46"

BRANCH COLOR LEGEND

	NORMAL BRANCH
	ESSENTIAL BRANCH
	LIFE SAFETY BRANCH
	CRITICAL BRANCH
	EQUIPMENT BRANCH

SYMBOLS GENERAL NOTES:

A. ALL MOUNTING HEIGHTS GIVEN IN THE LEGEND, SCHEDULES, PLANS, AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

B. INSTALL ALL SWITCHES AT A CENTERLINE HEIGHT OF 46" A.F.F. UNLESS OTHERWISE NOTED. WHERE SWITCHES OR RECEPTACLES ARE MOUNTED ABOVE CASEWORK OR MILLWORK, LOCATE AT A HEIGHT OF 3'-8" MAX. ABOVE FINISH FLOOR OR 3" ABOVE BACKSPLASH TO CENTERLINE.

C. WHERE COVERPLATES CONFLICT WITH CASEWORK OR MILLWORK, SLIGHTLY ADJUST THE MOUNTING HEIGHTS OF THE WIRING DEVICES TO MAKE THE COVERPLATES CLEAR THE COUNTERTOP OR BACKSPLASH BY 1".

D. ADDITIONAL SYMBOLS MAY BE SHOWN OR DENOTED ON OTHER SHEETS.

E. ALL SYMBOLS, NOTES, AND ABBREVIATIONS SHOWN ON THE LEGEND ARE NOT NECESSARILY USED IN THIS SET OF CONTRACT DOCUMENTS.

F. NUMERICAL SUBSCRIPT ADJACENT TO DEVICE FIXTURE, EQUIPMENT OR JUNCTION BOX SYMBOL ON THE DRAWINGS DENOTES THE PANELBOARD CIRCUIT NUMBER TO WHICH DEVICE, FIXTURE, EQUIPMENT OR WIRING IN JUNCTION BOX IS CONNECTED.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
888.781.8441
© 2025 E4H - Environments for Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

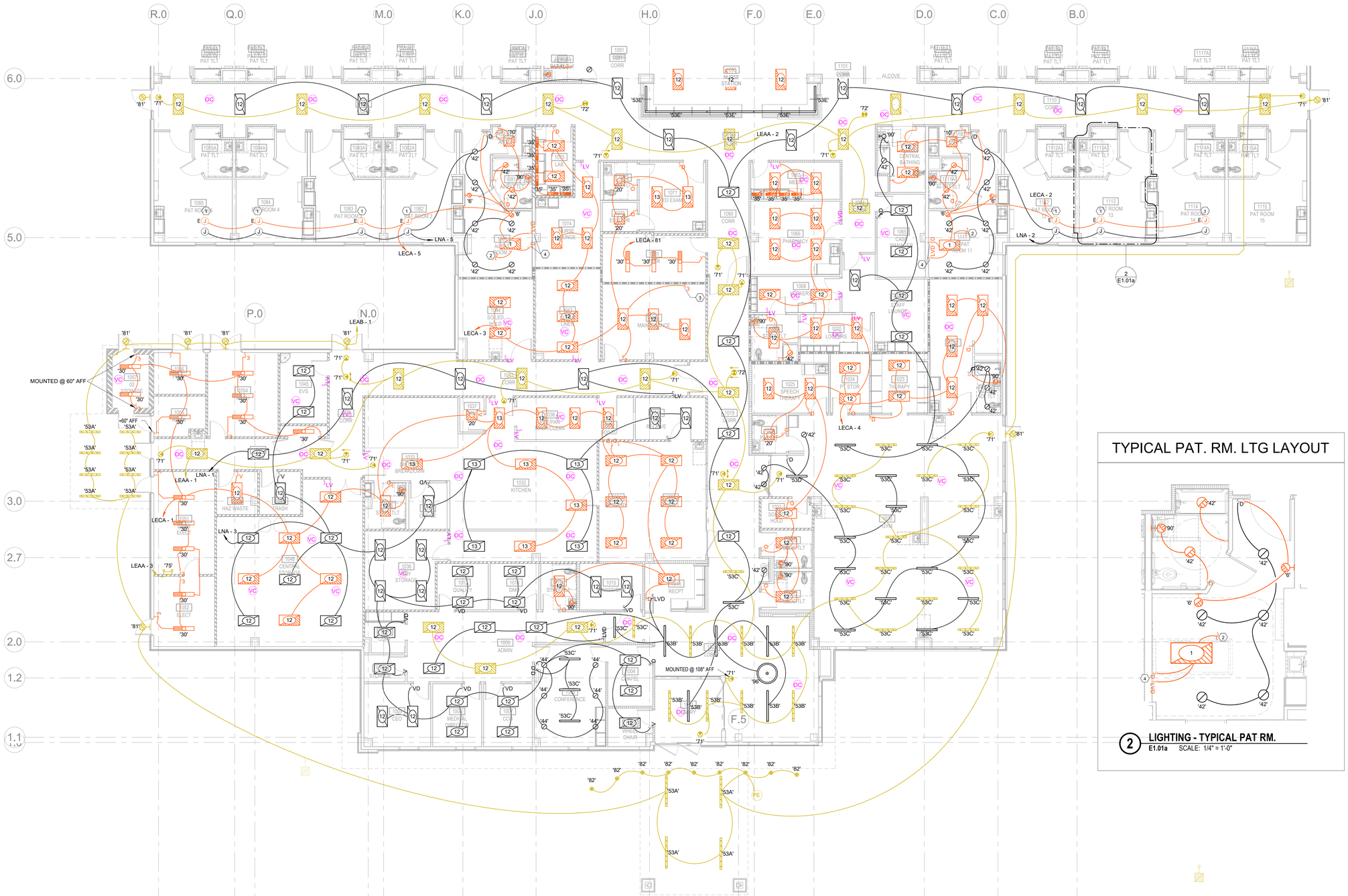
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E0.01

ELECTRICAL - LEGENDS & SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONE HALF LONG AT 11" SHEETS



TYPICAL PAT. RM. LTG LAYOUT

2 LIGHTING - TYPICAL PAT RM.
E1.01a SCALE: 1/4" = 1'-0"

1 E1.01a LIGHTING - LEVEL 1 - AREA A
1/8" = 1'-0"

NOTES:

1. REFER TO TYPICAL PAT. RM. LAYOUT ON THIS SHEET
2. PROVIDE CONNECTION TO NURSE CALL SYSTEM. THE AMBIENT LIGHT AND READING LIGHT IN THE TYPE '1' MULTI-FUNCTION LIGHT FIXTURE TO BE CONTROLLED BY THE PILLOW SPEAKER. LOW VOLTAGE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING LOW VOLTAGE CABLING FROM THE TYPE '1' LIGHT FIXTURE TO NURSE CALL DEVICE. THE PILLOW SPEAKER SHALL BE PROVIDED WITH TWO SWITCHES FOR INDIVIDUAL CONTRL OF THE AMBIENT LIGHT AND READING LIGHT. COORDINATE EXACT LOW VOLTAGE CONTROLLER IN THE TYPE '1' LIGHT FOR INDIVIDUAL CONTROL. TYPICAL ALL PATIENT ROOMS.
3. MOUNT FIXTURE AT TOP OF ACCESS LADDER
4. EMERGENCY LOW VOLTAGE DIMMER IS TO CONTROL THE READING/AMBIENT LIGHT IN THE TYPE '1' MULTI-FUNCTION LIGHT. EMERGENCY DIMMER IS TO CONTROL THE EXAM LIGHT IN THE TYPE '1' MULTI-FUNCTION LIGHT.

GENERAL NOTES:

A. CORRIDOR OCCUPANCY SENSORS ARE FOR CONTROL OF NORMAL LIGHTING WITH LOW VOLTAGE DIMMERS.
B. PHOTOELECTRIC SENSORS ARE SHALL CONTROL EXTERIOR DOWNLIGHTS. COORDINATE EXACT LOCATION OF SENSOR WITH ARCHITECT.
C. IN PATIENT CARE SPACES, ELECTRICAL SYSTEM MUST COMPLY WITH 517.13, TYPICAL.

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
e4harchitecture.com
888.781.8441

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

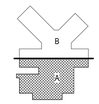
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

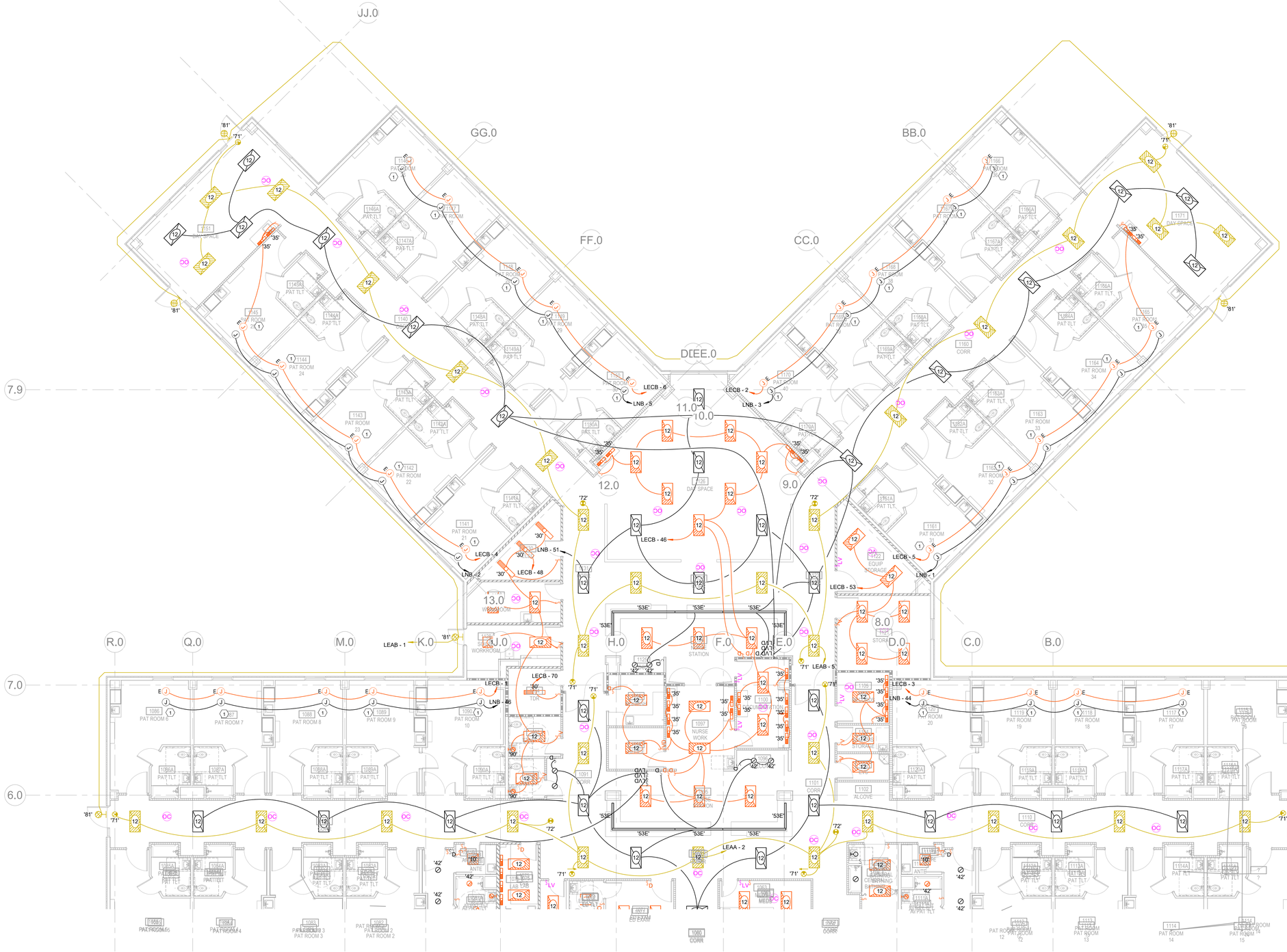
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

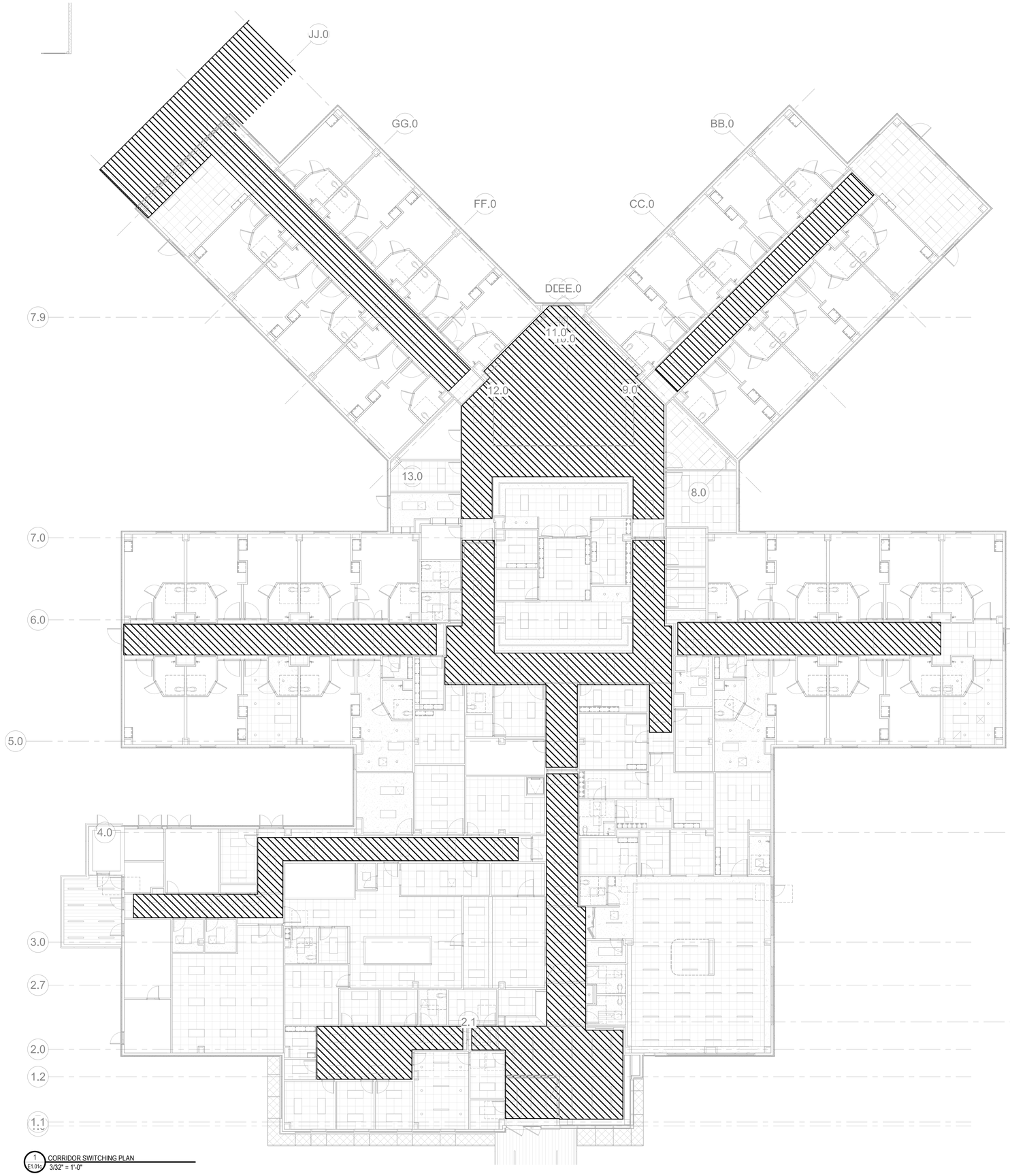
E1.01a

LIGHTING - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ONE INCH LONG AT 30 SHEETS


JJ.0
GG.0
FF.0
DIEE.0
CC.0
BB.0
7.9
7.0
6.0
R.0
Q.0
M.0
K.0
J.0
H.0
F.0
E.0
D.0
C.0
B.0
11.0
10.0
12.0
9.0
13.0
8.0
LECB - 6
LNB - 5
LECB - 2
LNB - 3
LECB - 4
LNB - 2
LNB - 51
LECB - 48
LECB - 46
LEAB - 1
LECB - 70
LNB - 46
LECB - 5
LNB - 1
LECB - 53
LECB - 3
LNB - 44
LEAA - 2
1151 DAY SPACE
1145A PAT TLT
1146A PAT TLT
1147A PAT TLT
1148A PAT TLT
1149A PAT TLT
1150A PAT TLT
1176A PAT TLT
1167A PAT TLT
1166A PAT TLT
1171 DAY SPACE
1165A PAT TLT
1160 CORR
1183A PAT TLT
1180A PAT TLT
1161A PAT TLT
1122 EQUIP STORAGE
1125 DAY SPACE
1097 NURSE WORK STATION
1105 DAY SPACE
1120 NURSE WORK STATION
1091 CORR
1101 CORR
1102 ALCOVE
1122 STORAGE
1080 CORR
1105E CORR
1110 CORR
1086A PAT TLT
1087A PAT TLT
1088A PAT TLT
1089A PAT TLT
1090A PAT TLT
1139A PAT TLT
1118A PAT TLT
1117A PAT TLT
1116A PAT TLT
1115A PAT TLT
1114A PAT TLT
1113A PAT TLT
1112A PAT TLT
1111A PAT TLT
1085A PAT TLT
1084A PAT TLT
1083A PAT TLT
1082A PAT TLT
1081A PAT TLT
1085 PAT ROOM 5
1084 PAT ROOM 4
1083 PAT ROOM 3
1082 PAT ROOM 2
1086 PAT ROOM 6
1087 PAT ROOM 7
1088 PAT ROOM 8
1089 PAT ROOM 9
1090 PAT ROOM 10
1139 PAT ROOM 23
1118 PAT ROOM 18
1117 PAT ROOM 17
1116 PAT ROOM 16
1115 PAT ROOM 15
1114 PAT ROOM 14
1113 PAT ROOM 13
1112 PAT ROOM 12
1111 PAT ROOM 11
1110 PAT ROOM 20
1119 PAT ROOM 19
1145 PAT ROOM 25
1144 PAT ROOM 24
1143 PAT ROOM 23
1142 PAT ROOM 22
1141 PAT ROOM 21
1140 PAT ROOM 20
1150 PAT ROOM 30
1176 PAT ROOM 40
1168 PAT ROOM 38
1167 PAT ROOM 37
1166 PAT ROOM 36
1165 PAT ROOM 35
1164 PAT ROOM 34
1163 PAT ROOM 33
1162 PAT ROOM 32
1161 PAT ROOM 31
1081 PAT ROOM 1
1082 PAT ROOM 2
1083 PAT ROOM 3
1084 PAT ROOM 4
1085 PAT ROOM 5
1086 PAT ROOM 6
1087 PAT ROOM 7
1088 PAT ROOM 8
1089 PAT ROOM 9
1090 PAT ROOM 10

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS



1 E1.01c CORRIDOR SWITCHING PLAN
3/32" = 1'-0"

GENERAL NOTES:

A. HATCHED AREAS INDICATE LIGHTING CONTROL ZONES. OCCUPANCY SENSORS WITHIN EACH ZONE SHALL CONTROL NORMAL BRANCH FIXTURES LOCATED WITHIN THAT ZONE.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

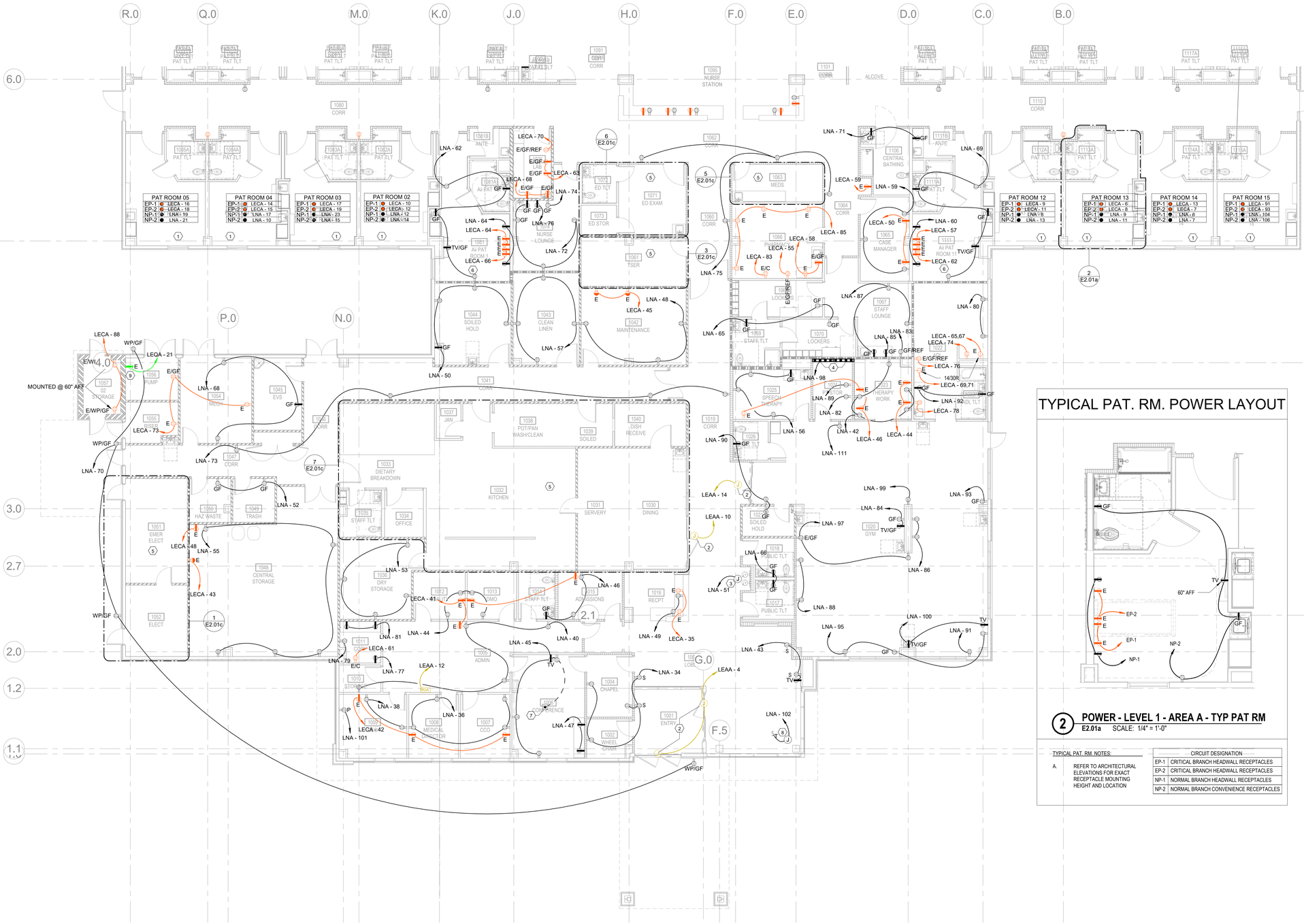
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E1.01c

LIGHTING - CORRIDOR SWITCHING PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ONE HALF INCH AT 11" SHEETS



TYPICAL PAT. RM. POWER LAYOUT

2 POWER - LEVEL 1 - AREA A - TYP PAT RM
E2.01a SCALE: 1/4" = 1'-0"

TYPICAL PAT. RM. NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT RECEPTACLE MOUNTING HEIGHT AND LOCATION

CIRCUIT DESIGNATION	
EP-1	CRITICAL BRANCH HEADWALL RECEPTACLES
EP-2	CRITICAL BRANCH HEADWALL RECEPTACLES
NP-1	NORMAL BRANCH HEADWALL RECEPTACLES
NP-2	NORMAL BRANCH CONVENIENCE RECEPTACLES

1 POWER - LEVEL 1 - AREA A
E2.01a 1/8" = 1'-0"

NOTES:

1. REFER TO TYPICAL PATIENT ROOM LAYOUT ON THIS SHEET
2. PROVIDE CONNECTION TO AUTO DOORS AS REQUIRED
3. PROVIDE CONNECTION TO DRINKING FOUNTAIN AS REQUIRED
4. WIREMOLD AL3300 OR EQUAL DUAL CHANNEL MULTI-OUTLET ASSEMBLY RECEPTACLE CHANNEL WITH GFCI NEMA 5-20R GREY INDUSTRIAL GRADE RECEPTACLES 24" ON CENTER FOR NORMAL BRANCH AND GFCI NEMA 5-20R RED INDUSTRIAL GRADE RECEPTACLES 24" ON CENTER FOR CRITICAL BRANCH. ENSURE CRITICAL BRANCH RECEPTACLES ARE LABELED/ENGRAVED WITH CIRCUIT NUMBER. RACEWAYS SHALL BE MOUNTED AT 42" AFF.
5. REFER TO CORRESPONDING ENLARGED VIEW ON SHEET E2.01C
6. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT RECEPTACLE MOUNTING HEIGHT AND LOCATION
7. COORDINATE FINAL LOCATION OF FLOOR BOX WITH VENDOR DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE CONNECTION TO MOTORIZED WINDOW SHADES, AS REQUIRED. CONTRACTOR TO COORDINATE EXACT REQUIREMENTS WITH SHADE VENDOR.
9. PROVIDE RECEPTACLE MOUNTED @ 8'6" FOR CONNECTION TO SPLIT SYSTEM CONDENSATE PUMP, AS REQUIRED.

GENERAL NOTES:

A. VERIFY ALL NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT. REFER TO VENDOR DRAWINGS.
B. IN PATIENT CARE SPACES, ELECTRICAL SYSTEM MUST COMPLY WITH 517.13, TYPICAL.

TRUE NORTH / PROJECT NORTH

BUILDING ELEMENTS
- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

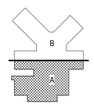
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

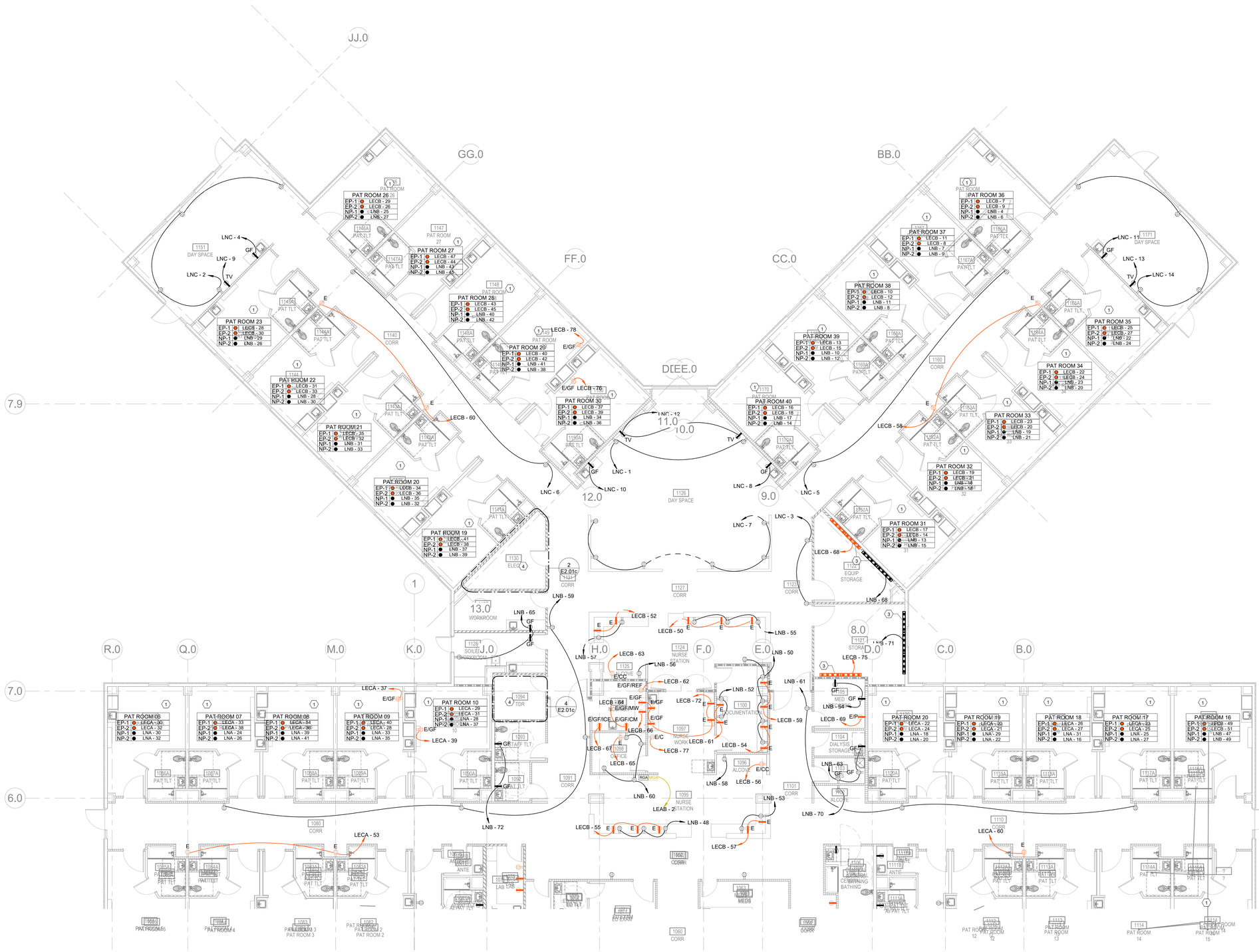
ORIG SUBMISSION: 02/13/26
CURRENT:

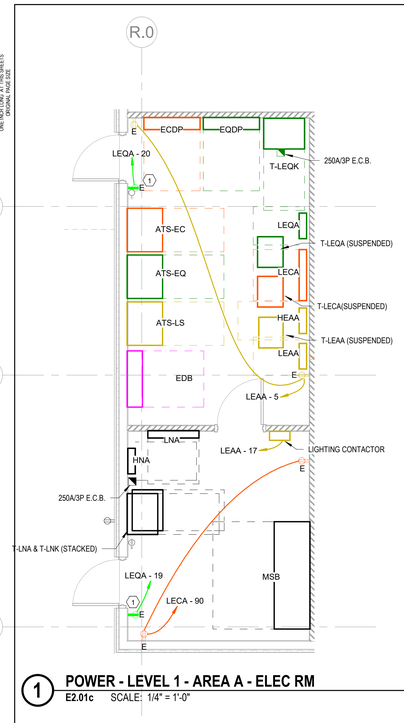
SHEET TITLE AND NUMBER:

E2.01a

POWER - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE


JJ.0
GG.0
FF.0
DIEE.0
CC.0
BB.0
7.9
7.0
6.0
R.0
Q.0
M.0
K.0
J.0
H.0
F.0
E.0
D.0
C.0
B.0
1
PAT ROOM 26
EP-1 LECB - 29
EP-2 LECB - 26
NP-1 LNB - 25
NP-2 LNB - 27
PAT ROOM 27
EP-1 LECB - 47
EP-2 LECB - 44
NP-1 LNB - 44
NP-2 LNB - 45
PAT ROOM 28
EP-1 LECB - 43
EP-2 LECB - 45
NP-1 LNB - 40
NP-2 LNB - 42
PAT ROOM 23
EP-1 LECB - 28
EP-2 LECB - 30
NP-1 LNB - 29
NP-2 LNB - 26
PAT ROOM 22
EP-1 LECB - 31
EP-2 LECB - 33
NP-1 LNB - 28
NP-2 LNB - 30
PAT ROOM 21
EP-1 LECB - 35
EP-2 LECB - 32
NP-1 LNB - 31
NP-2 LNB - 33
PAT ROOM 20
EP-1 LECB - 34
EP-2 LECB - 36
NP-1 LNB - 35
NP-2 LNB - 32
PAT ROOM 19
EP-1 LECB - 41
EP-2 LECB - 38
NP-1 LNB - 37
NP-2 LNB - 39
PAT ROOM 29
EP-1 LECB - 40
EP-2 LECB - 42
NP-1 LNB - 41
NP-2 LNB - 38
PAT ROOM 30
EP-1 LECB - 37
EP-2 LECB - 39
NP-1 LNB - 34
NP-2 LNB - 36
PAT ROOM 36
EP-1 LECB - 7
EP-2 LECB - 9
NP-1 LNB - 4
NP-2 LNB - 6
PAT ROOM 37
EP-1 LECB - 11
EP-2 LECB - 8
NP-1 LNB - 7
NP-2 LNB - 9
PAT ROOM 38
EP-1 LECB - 10
EP-2 LECB - 12
NP-1 LNB - 11
NP-2 LNB - 8
PAT ROOM 39
EP-1 LECB - 13
EP-2 LECB - 15
NP-1 LNB - 10
NP-2 LNB - 12
PAT ROOM 40
EP-1 LECB - 16
EP-2 LECB - 18
NP-1 LNB - 17
NP-2 LNB - 14
PAT ROOM 31
EP-1 LECB - 17
EP-2 LECB - 14
NP-1 LNB - 13
NP-2 LNB - 15
PAT ROOM 32
EP-1 LECB - 19
EP-2 LECB - 21
NP-1 LNB - 18
NP-2 LNB - 16
PAT ROOM 35
EP-1 LECB - 25
EP-2 LECB - 27
NP-1 LNB - 22
NP-2 LNB - 24
PAT ROOM 34
EP-1 LECB - 22
EP-2 LECB - 24
NP-1 LNB - 23
NP-2 LNB - 20
PAT ROOM 33
EP-1 LECB - 23
EP-2 LECB - 20
NP-1 LNB - 19
NP-2 LNB - 21
PAT ROOM 05
EP-1 LECA - 30
EP-2 LECA - 32
NP-1 LNA - 30
NP-2 LNA - 32
PAT ROOM 07
EP-1 LECA - 33
EP-2 LECA - 38
NP-1 LNA - 24
NP-2 LNA - 26
PAT ROOM 06
EP-1 LECA - 34
EP-2 LECA - 36
NP-1 LNA - 39
NP-2 LNA - 41
PAT ROOM 09
EP-1 LECA - 40
EP-2 LECA - 28
NP-1 LNA - 33
NP-2 LNA - 35
PAT ROOM 10
EP-1 LECA - 29
EP-2 LECA - 31
NP-1 LNA - 28
NP-2 LNA - 37
PAT ROOM 20
EP-1 LECA - 22
EP-2 LECA - 24
NP-1 LNA - 18
NP-2 LNA - 20
PAT ROOM 19
EP-1 LECA - 20
EP-2 LECA - 21
NP-1 LNA - 29
NP-2 LNA - 22
PAT ROOM 18
EP-1 LECA - 26
EP-2 LECA - 27
NP-1 LNA - 31
NP-2 LNA - 16
PAT ROOM 17
EP-1 LECA - 23
EP-2 LECA - 25
NP-1 LNA - 25
NP-2 LNA - 27
PAT ROOM 16
EP-1 LECB - 49
EP-2 LECB - 51
NP-1 LNB - 47
NP-2 LNB - 49
LNC - 4
LNC - 9
LNC - 2
GF
TV
LNC - 11
LNC - 13
LNC - 14
LNC - 12
LNC - 1
LNC - 6
LNC - 10
LNC - 8
LNC - 5
LNC - 7
LNC - 3
E
E/GF
E/C
E/CC
E/P
LECB - 78
LECB - 76
LECB - 69
LECB - 58
LECB - 68
LECB - 52
LECB - 50
LECB - 63
LECB - 64
LECB - 66
LECB - 67
LECB - 65
LECB - 72
LECB - 61
LECB - 77
LECB - 54
LECB - 56
LECB - 55
LECB - 57
LECB - 75
LECB - 59
LECA - 37
LECA - 39
LECA - 53
LECA - 60
LNB - 59
LNB - 65
LNB - 56
LNB - 55
LNB - 50
LNB - 52
LNB - 54
LNB - 58
LNB - 60
LNB - 48
LNB - 53
LNB - 72
LNB - 68
LNB - 71
LNB - 61
LNB - 63
LNB - 70
1151 DAY SPACE
1140 CORR
1126 DAY SPACE
1130 ELEC
1127 CORR
1123 CORR
1125 EQUIP STORAGE
1160 CORR
1171 DAY SPACE
1129 SOILED UTILITY
1094 TDR
1093 STAFF TLT
1092 PAT TLT
1091 CORR
1124 NURSE STATION
1125 E/C
1097 NURSE WORK
1098 OFFICE
1095 NURSE STATION
1100 DOCUMENTATION
1096 ALCOVE
1101 CORR
1121 STORAGE
1104 DIALYSIS STORAGE
1105 ALCOVE
1110 CORR
1080 CORR
1060 CORR
1062 CORR
1077 EP EXAM
1078 EP EXAM
1083 MEDS
1106 CENTRAL CLEANING BATHING
1118 ANTE
1119 PAT TLT
1120 PAT TLT
1117 PAT TLT
1116 PAT TLT
1115 PAT TLT
1114 PAT ROOM 14
1113 PAT ROOM 13
1112 PAT ROOM 12
1111 PAT ROOM 11
1086 PAT ROOM 5
1085 PAT ROOM 4
1084 PAT ROOM 3
1082 PAT ROOM 2
1081 PAT ROOM 1
1087 PAT TLT
1088 PAT TLT
1089 PAT TLT
1090 PAT TLT
1102 ANTE
1103 LAB
1104 EXAM
1105 EXAM
1106 ANTE
1107 PAT TLT
1108 PAT TLT
1109 PAT TLT
1111 PAT TLT
1112 PAT TLT
1113 PAT TLT
1114 PAT TLT
1115 PAT TLT
1116 PAT TLT
1117 PAT TLT
1118 PAT TLT
1119 PAT TLT
1120 PAT TLT
1121 PAT TLT
1122 PAT TLT
1123 PAT TLT

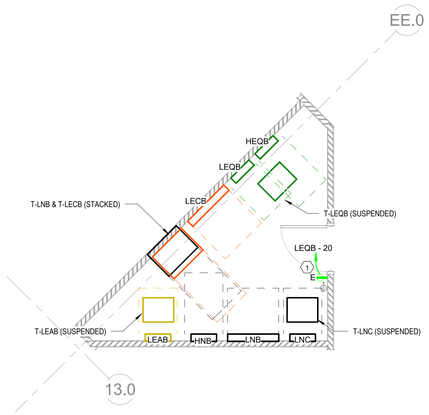


1 POWER - LEVEL 1 - AREA A - ELEC RM

E2.01c SCALE: 1/4" = 1'-0"

NOTES:

1. PROVIDE RECEPTACLE MOUNTED @ 8'6" FOR CONNECTION TO SPLIT SYSTEM CONDENSATE PUMP, AS REQUIRED.

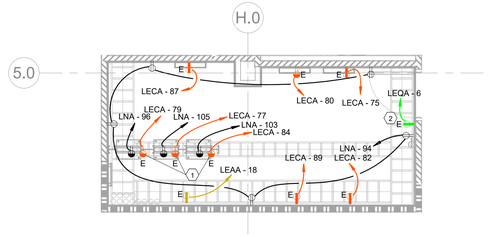


2 POWER - LEVEL 1 - AREA B - ELEC RM

E2.01c SCALE: 1/4" = 1'-0"

NOTES:

1. PROVIDE RECEPTACLE MOUNTED @ 8'6" FOR CONNECTION TO SPLIT SYSTEM CONDENSATE PUMP, AS REQUIRED.



3 POWER - LEVEL 1 - AREA A - TECH EQ

E2.01c SCALE: 1/4" = 1'-0"

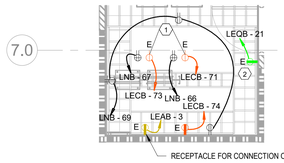
AREA A - TECH EQ. RM GENERAL NOTES:

A. REFER TO TELECOM ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES

B. PROVIDE #6 GROUND WIRE CONNECTED FROM THE MAIN BUS BAR IN THIS ROOM BACK TO THE MAIN ELECTRICAL SERVICE GROUND.

NOTES:

1. UTILIZE L5-30R & 2#10, 1#10G, 3/4"C
2. PROVIDE RECEPTACLE MOUNTED @ 8'6" FOR CONNECTION TO SPLIT SYSTEM CONDENSATE PUMP, AS REQUIRED.



4 POWER - LEVEL 1 - AREA B - IT

E2.01c SCALE: 1/4" = 1'-0"

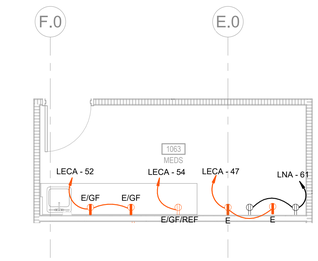
AREA B - IT RM GENERAL NOTES:

A. REFER TO TELECOM ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES

B. PROVIDE #6 GROUND WIRE FROM THE MAIN BUS BAR IN THIS ROOM BACK TO THE GROUND BUS BAR IN THE MAIN COMMUNICATION ROOM.

NOTES:

1. UTILIZE L5-30R & 2#10, 1#10G, 3/4"C
2. PROVIDE RECEPTACLE MOUNTED @ 8'6" FOR CONNECTION TO SPLIT SYSTEM CONDENSATE PUMP, AS REQUIRED.

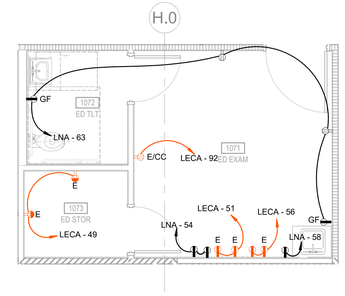


5 POWER - LEVEL 1 - AREA A - MEDS

E2.01c SCALE: 1/4" = 1'-0"

AREA A - MEDS GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES

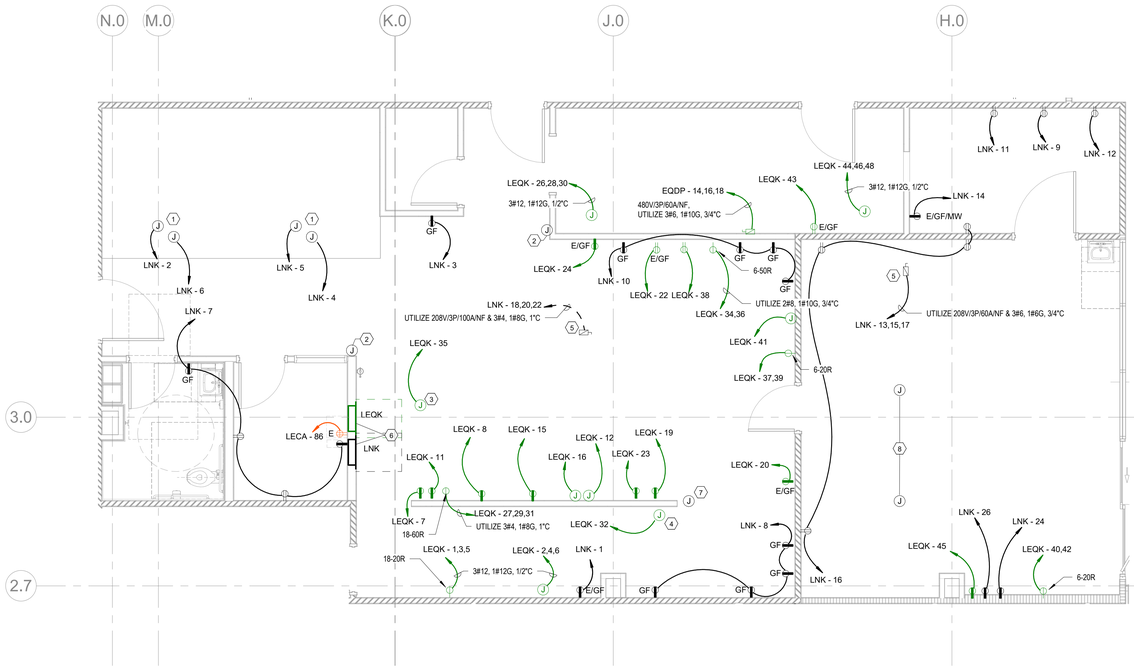


6 POWER - LEVEL 1 - AREA A - ED EXAM

E2.01c SCALE: 1/4" = 1'-0"

ED EXAM GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES



7 POWER - LEVEL 1 - AREA A - KITCHEN

E2.01c SCALE: 1/4" = 1'-0"

KITCHEN GENERAL NOTES:

A. REFER TO KITCHEN EQUIPMENT VENDOR DRAWINGS FOR EXACT LOCATION AND INSTALLATION REQUIREMENTS OF RECEPTACLES AND JUNCTION BOXES.

B. ALL RECEPTACLES IN THE KITCHEN ARE TO BE EQUIPPED WITH GFCI PROTECTION, PER NEC 210.8. RECEPTACLES LOCATED UNDER THE HOOD SHALL BE PROTECTED AT THE CIRCUIT BREAKER.

C. VERIFY THE NEMA CONFIGURATION OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO VENDOR DRAWINGS.

KITCHEN NOTES:

1. PROVIDE CONNECTION TO VENDOR PROVIDED DOOR HEATER, LIGHTING, SWTCHES, HEAT TAPE, AND ALARMS. REFER TO VENDOR DRAWINGS.
2. PROVIDE ROUGH-IN FOR MANUAL PULL STATION SERVING HOOD FIRE SUPRESSION SYSTEM.
3. PROVIDE CONNECTION TO EXHAUST HOOD AS REQUIRED.
4. PROVIDE CONNECTION TO FIRE SUPRESSION SYSTEM AS REQUIRED.
5. PROVIDE CONNECTION TO LOAD CENTER, FURNISHED BY KITCHEN VENDOR, AS REQUIRED.
6. PROVIDE LABEL ON PANEL AND PAINT FLOOR SQUARE (36"DX30"W) TO READ "NO STORAGE".
7. PROVIDE INTERCONNECTION BETWEEN FIRE ALARM SYSTEM AND KITCHEN EXHAUST HOOD. REFER TO KITCHEN VENDOR DRAWINGS FOR MORE DETAILS.
8. CONTRACTOR TO PROVIDE CONNECTION TO SNEEZE GUARD LIGHTS AND WARMERS, AS REQUIRED, VIA THE COUNTER LOAD CENTER.

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

E2.01c

POWER - LEVEL 1 - ENLARGED PLANS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 24" SHEETS



1 E3.01a ELEC-HVAC - LEVEL 1 - AREA A
1/8" = 1'-0"

GENERAL NOTES:

A. ALL DISCONNECTS SERVING ELECTRIC HEAT VAV BOXES SHALL UTILIZE 480V/3P/15A FUSED DISCONNECTS. REFER TO FLOOR PLAN FOR EXACT FUSE SIZE & COORDINATE WITH FINAL MECHANICAL SELECTIONS.

B. DSD's SHOWN FOR REFERENCE. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS.

NOTES:

1. PROVIDE CONNECTION TO MANIFOLD AS REQUIRED. MOUNTED @ MINIMUM 60" AFF.
2. PROVIDE CONNECTION TO UNIT HEATER AS REQUIRED. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS/SPECIFICATIONS
3. INDOOR UNIT IS POWRED FROM OUTDOOR UNIT.
4. PROVIDE CONNECTION TO RTU CONTROL PANEL, AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL DRAWINGS.

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

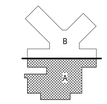
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

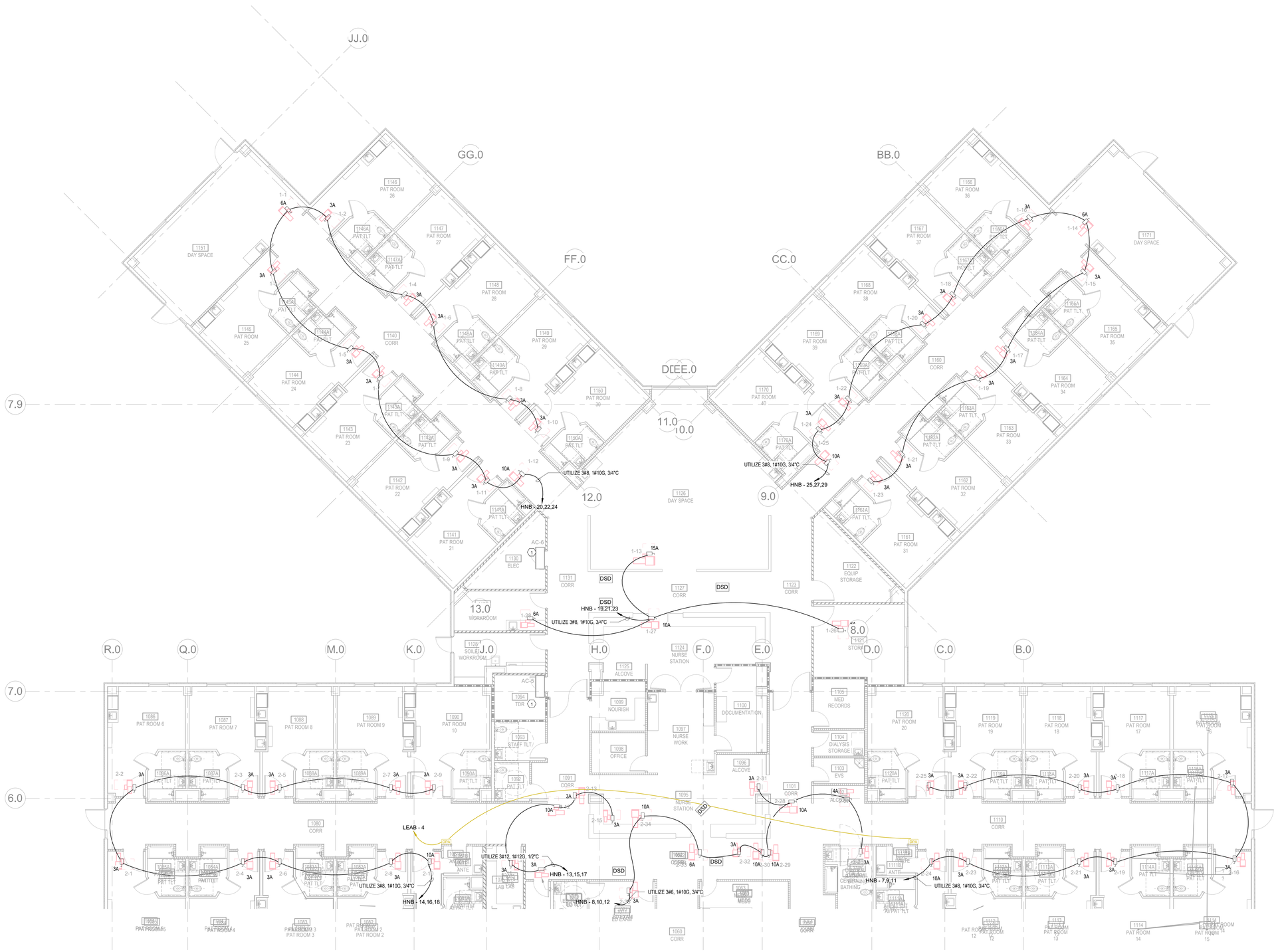
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E3.01a

ELEC-HVAC - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL ARCHITECTURAL SHEETS



1 E3.01b ELEC-HVAC - LEVEL 1 - AREA B

1/8" = 1'-0"

GENERAL NOTES:

A. ALL DISCONNECTS SERVING ELECTRIC HEAT VAV BOXES SHALL UTILIZE 480V/3P/15A FUSED DISCONNECTS. REFER TO FLOOR PLAN FOR EXACT FUSE SIZE & COORDINATE WITH FINAL MECHANICAL SELECTIONS.

B. DSD's SHOWN FOR REFERENCE. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS.

NOTES:

1. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

TRUE NORTH

PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE

e4h

893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT

I.C. Thomasson Associates, Inc.

A Salas O'Brien Company

2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

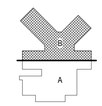
EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

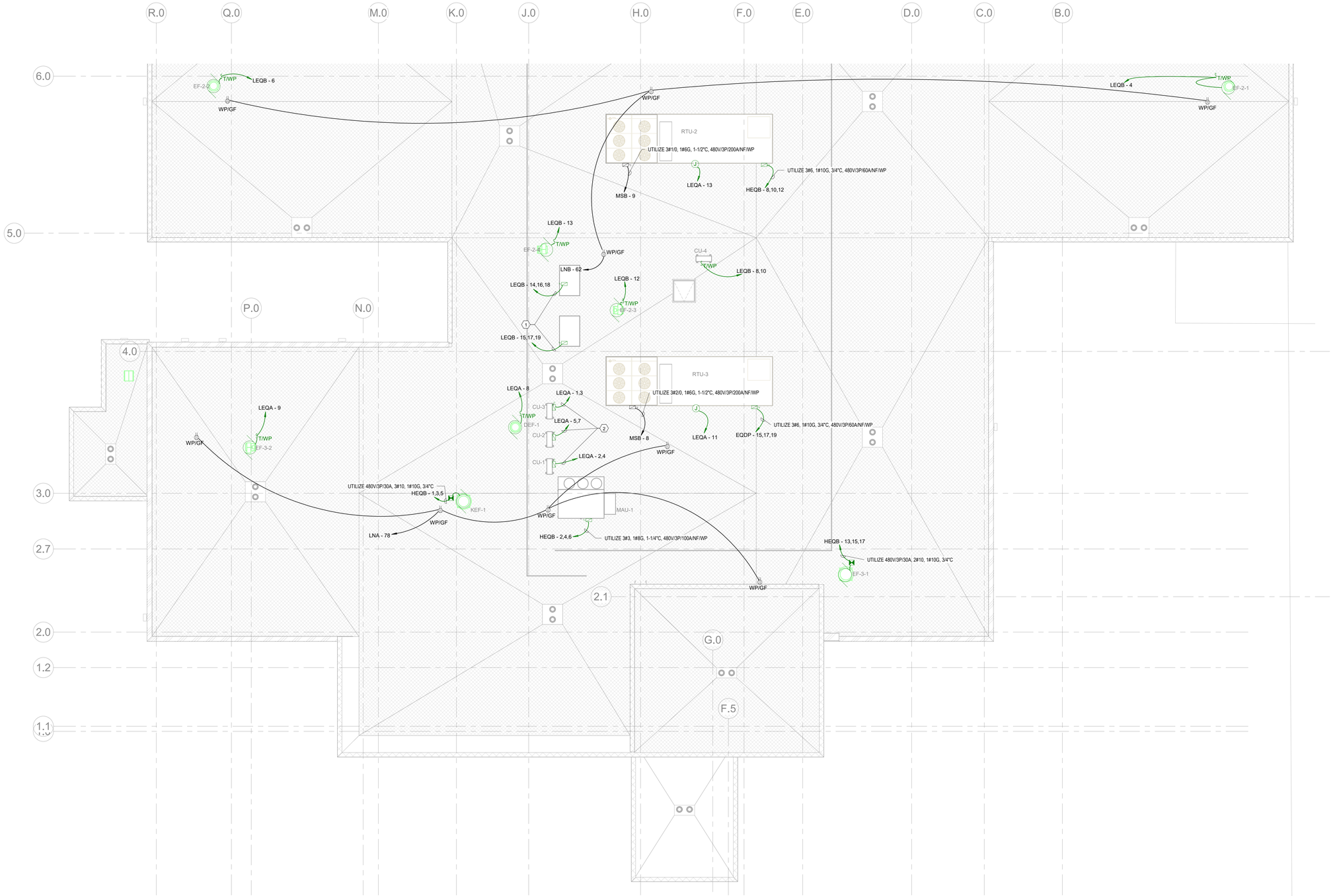
CURRENT:

SHEET TITLE AND NUMBER:

E3.01b

ELEC-HVAC - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH D SHEETS



1 E3.21a ELEC-HVAC - ROOF PLAN - AREA A
1/8" = 1'-0"

NOTES:

1. PROVIDE CONNECTION TO REMOTE CONDENSER UNITS AS REQUIRED. REFER TO KITCHEN VENDOR DRAWINGS FOR EXACT LOCATION AND CONDUIT/WIRING REQUIREMENTS. UTILIZE 208V/3P/NF/30A & 3#12, 1#12G, 1/2"C.
2. PROVIDE CONNECTION TO ROOFTOP CONDENSING UNITS. UTILIZE 208V/2P/NF/60A DISCONNECT & 2#8, 1#10G, 3/4"C.

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

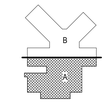
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

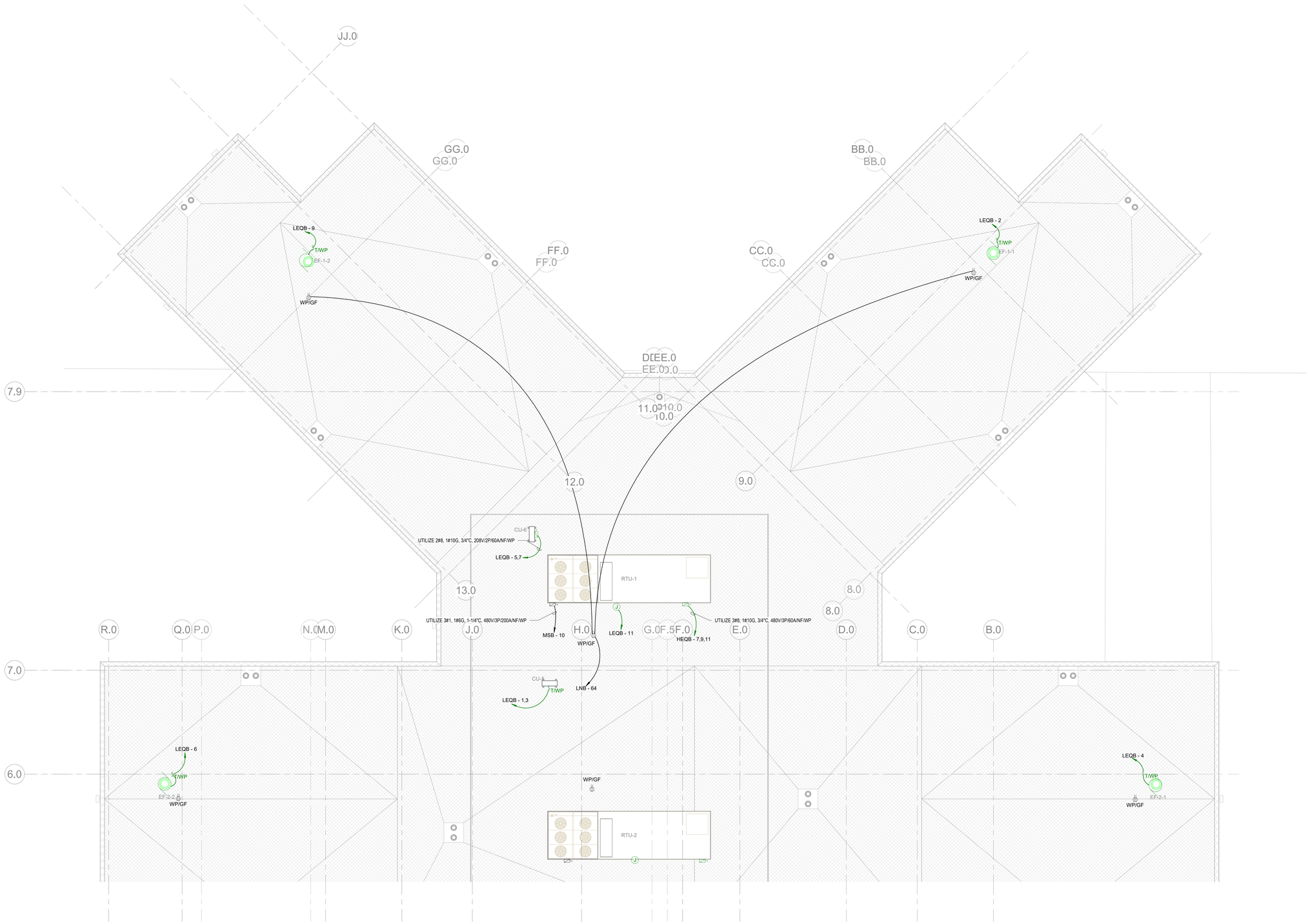
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E3.21a

ELEC-HVAC - ROOF PLAN - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE



1 E3.21b ELEC-HVAC - ROOF PLAN - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

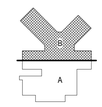
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E3.21b

ELEC-HVAC - ROOF PLAN - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL PLOT SIZE



1 E4.01a FIRE ALARM - LEVEL 1 - AREA A
1/8" = 1'-0"

NOTES:

1. REFER TO DETAIL '2' ON SHEET E702 FOR FIRE ALARM RISER.

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
888.781.8441

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

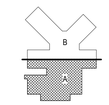
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E4.01a

FIRE ALARM - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE SHEETS ORIGINAL PAGE SIZE



1 E4.01b FIRE ALARM - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

BUILDING ELEMENTS

- NON-RATED WALL
- PARTITION CONSTRUCTED TO RESIST THE PASSAGE OF SMOKE
- 1 HR FIRE RATED BARRIER
- 1 HR FIRE RATED SMOKE BARRIER (SMOKE COMPARTMENT WALL)

e4h ENVIRONMENTS FOR HEALTH ARCHITECTURE
888.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

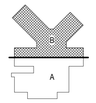
EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E4.01b

FIRE ALARM - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE

NORMAL POWER

SITE

AREA A ELECTRICAL ROOM

UTILITY TRANSFORMER

TEMPORARY GENERATOR CONNECTION

"NORMAL"

'MSB' INCOMING SECTION

'MSB' 1600A 480/277V 3Ø,4W M.C.B.

'MSB' DISTRIBUTION SECTION TVSS

#3/0

55

55

(NO GROUND)

TO 'HNB'

TO 'LNK'

46

'HNA' 400A 480/277V 3Ø,4W M.L.O. TVSS

"NORMAL"

24

'T-LNA' 75KVA

#2 G.

#2 GROUND

39

'LNA' 250A 208/120V 3Ø,4W M.C.B. TVSS

"NORMAL"

24

250A/3P E.C.B.

#2 GROUND

39

'T-LNK' 75KVA

#2 G.

EMERGENCY POWER

GENERATOR 350kW 480/277V

"EMERGENCY"

TEMPORARY GENERATOR AND LOAD BANK CONNECTION

48

48

'EDB' 600A 480/277V 3Ø,4W M.L.O. TVSS

"EMERGENCY"

46 46

ATS-EQ

39 39

ATS-EC

28 28

ATS-LS

TO 'HEQB'

TO 'T-LEQB'

TO 'T-LECB'

TO 'T-LEAB'

46

'EQDP' 400A 480/277V 3Ø,4W M.L.O. TVSS

"EQUIP."

39

'ECDP' 250A 480/277V 3Ø,4W M.L.O. TVSS

"CRITICAL"

28

'HEAA' 150A 480/277V 3Ø,4W M.L.O. TVSS

"L.S."

3#6, #10G, 1"C

'T-LEAA' 30KVA

HUNG

25

'LEAA' 100A 208/120V 3Ø,4W M.C.B. TVSS

"L.S."

#6 G.

15

'T-LECA' 45KVA

HUNG

28

'LECA' 150A 208/120V 3Ø,4W M.C.B. TVSS

"CRITICAL"

#6 G.

18

'T-LEQA' 30KVA

HUNG

28

'LEQA' 100A 208/120V 3Ø,4W M.C.B. TVSS

"EQUIP."

#6 G.

24

TO 'LEQK'

250A/3P E.C.B.

#2 GROUND

39

'T-LEQK' 75KVA

#2 G.

AREA B ELECTRICAL ROOM

KITCHEN

NORMAL POWER

FROM 'MSB'

46

'HNB' 400A 480/277V 3Ø,4W M.L.O. TVSS

"NORMAL"

24

#2 GROUND

39

'LNB' 250A 208/120V 3Ø,4W M.C.B. TVSS

"NORMAL"

STACKED WITH T-LECB

'T-LNB' 75KVA

#2 G.

12

'T-LNC' 30KVA

HUNG

25

'LNC' 100A 208/120V 3Ø,4W M.C.B. TVSS

"NORMAL"

#6 G.

FROM 'T-LNK'

39

'LNK' 250A 208/120V 3Ø,4W M.C.B. TVSS

"NORMAL"

EMERGENCY POWER

FROM 'HEAA'

3#6, #10G, 1"C

'T-LEAB' 30KVA

HUNG

25

'LEAB' 100A 208/120V 3Ø,4W M.C.B. TVSS

"L.S."

#6 G.

FROM 'ECDP'

24

#2 GROUND

39

'LECB' 250A 208/120V 3Ø,4W M.C.B. TVSS

"CRITICAL"

STACKED WITH T-LNB

'T-LECB' 75KVA

#2 G.

FROM 'EQDP'

37

'HEQB' 225A 480/277V 3Ø,4W M.L.O. TVSS

"EQUIP."

FROM 'EQDP'

12

'T-LEQB' 30KVA

HUNG

25

'LEQB' 100A 208/120V 3Ø,4W M.C.B. TVSS

"EQUIP."

#6 G.

FROM 'T-LEQK'

39

'LEQK' 250A 208/120V 3Ø,4W M.C.B. TVSS

"EQUIP."

CONDUIT AND WIRE DESIGNATION SCHEDULE

WIRE/BKR MAX AMPS	DESIG #	DESCRIPTION	WIRE/BKR MAX AMPS	DESIG #	DESCRIPTION
20	1	2#12, 1/2"C	200	32	2#3/0, 1#6G,2"C
20	2	2#12, 1#12G, 1/2"C	200	33	3#3/0, 1#6G, 2"C
20	3	3#12,1#12G, 1/2"C	200	34	4#3/0, 1#6G, 2"C
20	4	4#12, 1#12G, 1/2"C	230	35	2#4/0, 1#4G,2"C
30	5	2#10, 1#10G, 3/4"C	230	36	3#4/0, 1#4G, 2"C
30	6	3#10, 1#10G, 3/4"C	230	37	4#4/0, 1#4G,2-1/2"C
30	7	4#10, 1#10G, 3/4"C	255	38	3#250MCM,1#4G, 2-1/2"C
40	8	2#8, 1#10G, 3/4"C	255	39	4#250MCM, 1#4G,2-1/2"C
40	9	3#8, 1#10G, 3/4"C	285	40	3#300MCM, 1#4G,2-1/2"C
40	10	4#8, 1#10G, 3/4"C	285	41	4#300MCM,1#4G,3"C
55	11	2#6, 1#10G, 3/4"C	310	42	3#350MCM,1#3G, 2-1/2"C
55	12	3#6, 1#10G, 3/4"C	310	43	4#350MCM, 1#3G, 3"C
55	13	4#6, 1#10G, 1"C	380	44	3#500MCM, 1#3G, 3"C
70	14	2#4, 1#8G, 1"C	380	45	4#500MCM,1#3G,3-1/2"C
70	15	3#4, 1#8G, 1"C	460	46	2 SETS,EA:4#4/0, 1#2G, 2-1/2"C
70	16	4#4, 1#8G, 1-1/4"C	510	47	2 SETS,EA:4#250MCM,1#1G,2-1/2"C
85	17	2#3, 1#8G, 1-1/4"C	620	48	2 SETS,EA: 4#350MCM,1#1/0G,3"C
85	18	3#3, 1#8G, 1-1/4"C	760	49	2 SETS,EA: 4#500MCM, 1#1/0G,3-1/2"C
85	19	4#3, 1#8G, 1-1/4"C	855	50	3 SETS, EA: 4#300MCM,1#2/0G,3"C
95	20	2#2, 1#8G, 1-1/4"C	930	51	3 SETS, EA: 4#350MCM,1#2/0G,3"C
95	21	3#2, 1#8G, 1-1/4"C	1005	52	3 SETS, EA: 4#400MCM,1#3/0G,3"C
95	22	4#2, 1#8G, 1-1/4"C	1140	53	3 SETS,EA:4#500MCM,1#3/0G,3-1/2"C
130	23	2#1, 1#6G, 1-1/4"C	1240	54	4 SETS,EA: 4#350MCM,1#4/0G,3"C
130	24	3#1, 1#6G, 1-1/4"C	1675	55	5 SETS,EA:4#400MCM,1#250MCMG,3"C
130	25	4#1, 1#6G, 1-1/2"C	1900	56	5 SETS,EA:4#500MCM,1#250MCMG,3-1/2"C
150	26	2#1/0, 1#6G, 1-1/2"C	2010	57	6 SETS,EA:4#400MCM,1#350MCMG,3-1/2"C
150	27	3#1/0, 1#6G,1-1/2"C	2280	58	6 SETS,EA:4#500MCM,1#350MCMG,3-1/2"C
150	28	4#1/0, 1#6G, 2"C	2660	59	7 SETS,EA:4#500MCM,1#400MCMG,3-1/2"C
175	29	2#2/0, 1#6G, 1-1/2"C	3040	60	8 SETS, EA:4#500MCM,1#500MCMG,3-1/2"C
175	30	3#2/0, 1#6G,1-1/ 2"C	4180	61	11 SETS, EA:4#500MCM,1#600MCMG,3-1/2"C
175	31	4#2/0, 1#6G, 2"C			

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION
WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20A THRU 100 AMPS
AND 75°C AMPACITY TABLES FOR VALUES > 100 AMPS.

NOTE!
IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT BREAKERS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 WIRE U.O.N. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE BREAKER AND WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS NOTED OTHERWISE ALL 20A., 1P. BREAKERS TO UTILIZE #12 CONDUCTORS. EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE #10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8.

TRANSFORMER GROUNDING

KVA	GROUNDING ELECTRODE CONDUCTOR
15	#8
30	#6
45	#6
75	#2
112.5	#1/0

NOTES:

1. PROVIDE A NEC 700.3(F) COMPLIANT DUAL PURPOSE DOCKING STATION (TEMPORARY GENERATOR AND LOAD BANK) EQUAL TO ASCO MGDQ -OR- TRYSTAR DBDS-5. EQUIPMENT SHALL BE 480V, 800A, 4-POLE (SWITCHED NEUTRAL). DEVICE SHALL BE KEY INTERLOCKED TO PREVENT SIMULTANEOUS OPERATION OF TWO SOURCES. DEVICE SHALL BE PROVIDED WITH LOAD BANK DUMP CAPABILITY AND AUTO START CAPABILITY OF BOTH PERMANENT AND TEMPORARY GENERATOR. CONTRACTOR SHALL PROVIDE SEPARATE LOW VOLTAGE PATHWAY (1"C) FOR CONTROLS BETWEEN ATS, DUAL PURPOSE DOCKING STATION, AND PERMANENT GENERATOR.
2. GENERATOR BREAKER. REFER TO ONE-LINE FOR ADDITIONAL INFORMATION.
3. GENERATOR SHALL BE CLASS 48, TYPE 10, AND LEVEL 1

TRANSFORMER GROUNDING

KVA	GROUNDING ELECTRODE CONDUCTOR
15	#8
30	#6
45	#6
75	#2
112.5	#1/0

MIN. GENERATOR FUEL TANK CAPACITY

GPH(100%)	GPH X 64HRS = MIN TANK SIZE USABLE GALLONS
25.7	1644.8*

LOW FUEL ALARM (48HRS PER FBC & NFPA 110)

GPH(100%)	GPH X 48HRS = LOW FUEL ALARM LEVEL
25.7	1233.6*

* ACTUAL VALUE SHALL BE VERIFIED WITH CONTRACTOR SUBMITTED GENERATOR.

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E5.01

ELECTRICAL - RISER DIAGRAM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS

ALL FEEDER LENGTHS SHOWN ARE FOR FAULT CALCULATIONS ONLY.
VERIFY ACTUAL FEEDER LENGTHS AND DO NOT USE THE FEEDER LENGTHS SHOWN ON THIS DRAWING FOR MATERIAL TAKEOFF.

UTIL AVAILABLE FAULT
IntiSymRMS 3P 15980.00 A
IntiSymRMS SLG 9237.00 A

UTIL XFMR SECONDARY
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 15980.00 A
IntiSymRMS SLG 9237.00 A

MSB FEEDER
CableSize 400 kcmil
QtyPerPhase 5
Length 90.0 ft
ConductorType Copper

MSB MAIN BKR 1600A
InterruptingRating 65.0 kA
Manufacturer SQUARE D
Type Powerpact R-Frame RG/RK, 5.0 & 5.0A/P/H
Settings
Phase
LTPU (A) 1 (1600A)
LTD 4
STPU 8 (12800A)
STD 0.4 (I^t OUT)
INST OR Fixed (62000A)
Ground
GFPU (500-1200A) B (640A)
GFD (0.6-0.4 (I^t OUT)
SensorTrip 1600.0 A
DeviceVoltage 600 V
Frame/Model RK

MSB QUICK CONNECT (TEMP GEN)
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 15001.68 A
IntiSymRMS SLG 8750.45 A

QUICK CONNECT FEEDER
CableSize 400 kcmil
QtyPerPhase 5
Length 40.0 ft
ConductorType Copper

QUCK CONNECT BKR 1600A
InterruptingRating 65.0 kA
Manufacturer SQUARE D
Type Powerpact R-Frame RK/RG, 6.0A/P/H
Settings
Phase
LTPU (A) 1 (1600A)
LTD 4
STPU 8 (12800A)
STD 0.3 (I^t OUT)
INST OR Fixed (62000A)
Ground
GFPU (500-1200A) B (640A)
GFD (0.6-0.4 (I^t OUT)
SensorTrip 1600.0 A
DeviceVoltage 600 V
Frame/Model RK

GENERATOR
Rated kW 350 kW

GEN MAIN BK 528A
InterruptingRating 50.0 kA
Manufacturer ABB
Type XT7, Ekip Dip LST
Settings
LTPU 0.44 (528A)
LTD 12 (I^t T On)
STPU 1 (1200A)
STD 0.2 (I^t T On)
INST 3.5 (4200A)
INST OR Fixed (20000A)
SensorTrip 1200.0 A
DeviceVoltage 600 V
Frame/Model XT7-S

GEN BUS
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 3114.51 A
IntiSymRMS SLG 3114.51 A

GEN DAMAGE
InterruptingRating 0.0 kA
Manufacturer Generic SD50
Type DAMAGE
Settings
THERMAL
SensorTrip 0.0 A
DeviceVoltage 600 V
Frame/Model

TEMP GEN/LOAD BANK CONNOR FDR
CableSize 300 kcmil
QtyPerPhase 2
Length 40.0 ft
ConductorType Copper

TEMP GEN/LOAD BANK CONNECTOR
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 3085.52 A
IntiSymRMS SLG 3071.32 A

EDH FDR
CableSize 300 kcmil
QtyPerPhase 2
Length 10.0 ft
ConductorType Copper

EDH 600A, 18KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 3078.31 A
IntiSymRMS SLG 3060.64 A

RTU-1,2,3 BKR 200A
InterruptingRating 100.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2S
Settings
Phase
Ir (70-250A); tr (Fixed) 200 (200A); Fixed
Isd (1.5 - 10 x Ir); ted 10 (2500A); Fixed
Ii (1.5 - 12 x Ir) 10 (2500A)
INST OR Fixed (3062A)
Ground
Ig (0.2 - 1 x Ir) 0.3 (75A)
tg (0 - 0.4) 0.2 (I^t T Off)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JL

ATS-EC BKR 250A E
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type Powerpact J Frame, 5.2A/E & 6.2A/E
Settings
Ir 250 (250A)
tr 16
Isd 7.5 (1875A)
tsd 0.4 (I^t T Off)
Ii 12 (3000A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

ATS-EC FEEDER E
CableSize 250 kcmil
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

ATS-EC 250A, 35KAIC

ATS-EC L
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 14370.54 A
IntiSymRMS SLG 8420.25 A

ECDP FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

ECDP 250A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 13526.11 A
IntiSymRMS SLG 7973.65 A

ATS-LS BKR 150A E
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type Powerpact J Frame, 5.2A/E & 6.2A/E
Settings
Ir 150 (150A)
tr 4
Isd 8 (1200A)
tsd 0.3 (I^t T Off)
Ii 6 (1200A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

ATS-LS FEEDER E
CableSize 1/0 AWG
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

ATS-LS 150A, 35KAIC

ATS-LS L
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 13739.70 A
IntiSymRMS SLG 8044.87 A

HEAA FEEDER
CableSize 1/0 AWG
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

HEAA 150A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 12586.30 A
IntiSymRMS SLG 7439.33 A

ATS-EQ BKR 400A E
InterruptingRating 65.0 kA
Manufacturer SQUARE D
Type Powerpact P-Frame PG, 5.0 & 6.0 A/P/H
Settings
LTPU (A) 0.5 (400A)
LTD 0.5
STPU 8 (3200A)
STD 0.3 (I^t T Off)
INST OR Fixed (26000A)
SensorTrip 400.0 A
DeviceVoltage 600 V
Frame/Model PG

ATS-EQ FEEDER E
CableSize 4/0 AWG
QtyPerPhase 2
Length 20.0 ft
ConductorType Copper

ATS-EQ 400A, 35KAIC

ATS-EQ L
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 14808.10 A
IntiSymRMS SLG 8646.62 A

FQDP FEEDER
CableSize 4/0 AWG
QtyPerPhase 2
Length 20.0 ft
ConductorType Copper

FQDP 400A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 14341.78 A
IntiSymRMS SLG 8404.09 A

HNA BKR 400A
InterruptingRating 100.0 kA
Manufacturer SQUARE D
Type PowerPact L-Frame, 3.3S
Settings
Phase
Ir (125-400A); tr (Fixed) 400 (400A); Fixed
Isd (1.5 - 10 x Ir); ted 6 (2400A); Fixed
Ii (1.5 - 12 x Ir) 10 (4000A)
INST OR Fixed (4914A)
Ground
Ig (0.2 - 1 x Ir) 0.3 (120A)
tg (0 - 0.4) 0.2 (I^t T Off)
SensorTrip 400.0 A
DeviceVoltage 600 V
Frame/Model LL

HNA FEEDER
CableSize 4/0 AWG
QtyPerPhase 2
Length 20.0 ft
ConductorType Copper

HNA 400A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 14808.12 A
IntiSymRMS SLG 8646.63 A

HNA LROST BKR 50A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type ED
Settings
Fixed
SensorTrip 50.0 A
DeviceVoltage 600 V
Frame/Model ED

T-LNA BKR 110A
InterruptingRating 100.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 110 (110A)
tr 4
Ii 8 (1200A)
INST OR Fixed (2277A)
Ground
Ig (0.2 - 1 x Ir) 0.3 (45A)
tg (0 - 0.4) 0.2 (I^t T Off)
SensorTrip 150.0 A
DeviceVoltage 600 V
Frame/Model HL

T-LNA FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

T-LNA
Nominal kVA 75 kVA
Z% 5.2113 %
X/R 1.4500
InrushFactor 8.7

LNA FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LNA MAIN BKR 250A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type J-Frame, Powerpact
Settings
Thermal Curve
INST (5-10 x Trip) High (2500A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LNA 250A, 18KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 3520.49 A
IntiSymRMS SLG 3593.73 A

LNA LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-5, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LNB BKR 110A
InterruptingRating 100.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 110 (110A)
tr 4
Ii 8 (1200A)
INST OR Fixed (2277A)
Ground
Ig (0.2 - 1 x Ir) 0.3 (45A)
tg (0 - 0.4) 0.2 (I^t T Off)
SensorTrip 150.0 A
DeviceVoltage 600 V
Frame/Model HL

T-LNB FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

T-LNB
Nominal kVA 75 kVA
Z% 5.2113 %
X/R 1.4500
InrushFactor 8.7

LNB FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LNB MAIN BKR 250A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2S
Settings
Ir 70 (70-250A); tr (Fixed) 250 (250A); Fixed
Isd (1.5 - 10 x Ir); ted 6 (1500A); Fixed
Ii (1.5 - 12 x Ir) 6 (1500A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LNB 250A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 3533.81 A
IntiSymRMS SLG 3668.89 A

LNB LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LNC BKR 45A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type ED
Settings
Fixed
SensorTrip 45.0 A
DeviceVoltage 600 V
Frame/Model ED

T-LNC FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 15.0 ft
ConductorType Copper

T-LNC
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LNC MAIN BKR 100A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 100A)
SensorTrip 100.0 A
DeviceVoltage 240 V
Frame/Model QO

LNC 100A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1962.54 A
IntiSymRMS SLG 1987.99 A

LNC LROST BKR 20A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-4, 20A)
SensorTrip 20.0 A
DeviceVoltage 240 V
Frame/Model QO

MSB 1600A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 15292.43 A
IntiSymRMS SLG 8895.32 A

HNB BKR 400A
InterruptingRating 100.0 kA
Manufacturer SQUARE D
Type PowerPact L-Frame, 3.3S
Settings
Phase
Ir (125-400A); tr (Fixed) 400 (400A); Fixed
Isd (1.5 - 10 x Ir); ted 5 (2000A); Fixed
Ii (1.5 - 12 x Ir) 12 (4800A)
INST OR Fixed (4914A)
Ground
Ig (0.2 - 1 x Ir) 0.3 (120A)
tg (0 - 0.4) 0.2 (I^t T Off)
SensorTrip 400.0 A
DeviceVoltage 600 V
Frame/Model HL

HNB FEEDER
CableSize 4/0 AWG
QtyPerPhase 2
Length 230.0 ft
ConductorType Copper

HNB 400A, 18KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 10797.31 A
IntiSymRMS SLG 6471.59 A

T-LNB BKR 110A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 110 (110A)
tr 16
Ii 10 (1500A)
INST OR Fixed (2277A)
SensorTrip 150.0 A
DeviceVoltage 600 V
Frame/Model HG

T-LNB FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 90.0 ft
ConductorType Copper

T-LNB
Nominal kVA 75 kVA
Z% 4.9000 %
X/R 1.5400
InrushFactor 10.9

LNB FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LNB MAIN BKR 250A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2S
Settings
Ir 70 (70-250A); tr (Fixed) 250 (250A); Fixed
Isd (1.5 - 10 x Ir); ted 6 (1500A); Fixed
Ii (1.5 - 12 x Ir) 6 (1500A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LNB 250A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 3533.81 A
IntiSymRMS SLG 3668.89 A

LNB LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LNC BKR 45A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type ED
Settings
Fixed
SensorTrip 45.0 A
DeviceVoltage 600 V
Frame/Model ED

T-LNC FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 15.0 ft
ConductorType Copper

T-LNC
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LNC MAIN BKR 100A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 100A)
SensorTrip 100.0 A
DeviceVoltage 240 V
Frame/Model QO

LNC 100A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1962.54 A
IntiSymRMS SLG 1987.99 A

LNC LROST BKR 20A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-4, 20A)
SensorTrip 20.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LEQK BKR 110A
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type Powerpact P-Frame PG, 5.0 & 6.0 A/P/H
Settings
LTPU (A) 0.6 (320A)
LTD 0.5
STPU 3 (960A)
STD 0.1 (I^t T Off)
INST 2 (1600A)
INST OR Fixed (26000A)
SensorTrip 800.0 A
DeviceVoltage 600 V
Frame/Model PG

T-LEQK FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

T-LEQK
Nominal kVA 75 kVA
Z% 5.2113 %
X/R 1.4500
InrushFactor 8.7

T-LEQK SUC ECB 250A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2
Settings
Ir 250 (250A)
tr 2
Ii 6 (1500A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LEQK FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 90.0 ft
ConductorType Copper

LEQK MAIN BKR 250A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2
Settings
Ir 250 (250A)
tr 2
Ii 6 (1500A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LEQK 250A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 2971.67 A
IntiSymRMS SLG 2792.24 A

LEQK LROST BKR 60A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-6, 60A)
SensorTrip 60.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LEQA BKR 45A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 45 (45A)
tr 4
Ii 11 (720A)
INST OR Fixed (912A)
SensorTrip 45.0 A
DeviceVoltage 600 V
Frame/Model HG

T-LEQA FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

T-LEQA
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LEQA FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 8.0 ft
ConductorType Copper

LEQA MAIN BKR 100A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 90 (90A)
tr 16
Ii 15 (1500A)
INST OR Fixed (1520A)
SensorTrip 100.0 A
DeviceVoltage 600 V
Frame/Model HD

LECA 100A, 10KAIC0
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1994.89 A
IntiSymRMS SLG 2089.15 A

LEQA LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-6, 70A)
SensorTrip 70.0 A
DeviceVoltage 240 V
Frame/Model QO

HEQB BKR 225A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type Powerpact P-Frame PG/PK, 3.0 & 3.0A
Settings
LTPU (A) 0.9 (225A)
LTD 1
INST 4 (1000A)
INST OR Fixed (26000A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model PG

HEQB FEEDER
CableSize 4/0 AWG
QtyPerPhase 1
Length 230.0 ft
ConductorType Copper

HEQB 225A, 18KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 7781.96 A
IntiSymRMS SLG 4725.59 A

HEQB 2ND LROST BKR 80A
InterruptingRating 65.0 kA
Manufacturer SQUARE D
Type HJ
Settings
Fixed
SensorTrip 110.0 A
DeviceVoltage 600 V
Frame/Model HJ

T-LEQB BKR 45A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 45 (45A)
tr 4
Ii 15 (900A)
INST OR Fixed (912A)
SensorTrip 60.0 A
DeviceVoltage 600 V
Frame/Model HG

T-LEQB FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 230.0 ft
ConductorType Copper

T-LEQB
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LEQB FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 8.0 ft
ConductorType Copper

LEQB MAIN BKR 100A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 100 (100A)
tr 2
Ii 12 (1200A)
INST OR Fixed (1520A)
SensorTrip 100.0 A
DeviceVoltage 600 V
Frame/Model HD

LEQB 100A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1507.13 A
IntiSymRMS SLG 1650.31 A

LEQB LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-5, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LEAA BKR 45A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type EG
Settings
Fixed
SensorTrip 45.0 A
DeviceVoltage 600 V
Frame/Model EG

T-LEAA FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

T-LEAA
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LEAA FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LEAA MAIN BKR 100A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 100A)
SensorTrip 100.0 A
DeviceVoltage 240 V
Frame/Model QO

LEAA 100A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1985.13 A
IntiSymRMS SLG 1991.16 A

LEAA LROST BKR 20A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-4, 20A)
SensorTrip 20.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LEAB BKR 45A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type EG
Settings
Fixed
SensorTrip 45.0 A
DeviceVoltage 600 V
Frame/Model EG

T-LEAB FEEDER
CableSize 6 AWG
QtyPerPhase 1
Length 230.0 ft
ConductorType Copper

T-LEAB
Nominal kVA 30 kVA
Z% 3.8015 %
X/R 0.4500
InrushFactor 13.9

LEAB FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LEAB MAIN BKR 100A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-7, 100A)
SensorTrip 100.0 A
DeviceVoltage 240 V
Frame/Model QO

LEAB 100A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 1484.38 A
IntiSymRMS SLG 1624.41 A

LEAB LROST BKR 20A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-4, 20A)
SensorTrip 20.0 A
DeviceVoltage 240 V
Frame/Model QO

ATS-EC BKR 250A E
InterruptingRating 18.0 kA
Manufacturer SQUARE D
Type Powerpact J Frame, 5.2A/E & 6.2A/E
Settings
Ir 250 (250A)
tr 16
Isd 7.5 (1875A)
tsd 0.4 (I^t T Off)
Ii 12 (3000A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

ATS-EC FEEDER E
CableSize 250 kcmil
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

ATS-EC 250A, 35KAIC

ATS-EC L
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 14370.54 A
IntiSymRMS SLG 8420.25 A

ECDP FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 20.0 ft
ConductorType Copper

ECDP 250A, 35KAIC
SystemNominalVoltage 480.0 V
IntiSymRMS 3P 13526.11 A
IntiSymRMS SLG 7973.65 A

T-LECA BKR 70A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2
Settings
Ir 70 (70A)
tr 8
Ii 10 (1000A)
INST OR Fixed (1520A)
SensorTrip 100.0 A
DeviceVoltage 600 V
Frame/Model HG

T-LECA FEEDER
CableSize 4 AWG
QtyPerPhase 1
Length 15.0 ft
ConductorType Copper

T-LECA
Nominal kVA 45 kVA
Z% 3.8946 %
X/R 0.9900
InrushFactor 13.6

LECA FEEDER
CableSize 1/0 AWG
QtyPerPhase 1
Length 6.0 ft
ConductorType Copper

LECA MAIN BKR 150A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2
Settings
Ir 150 (150A)
tr 4
Ii 6 (1500A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LECA 150A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 2823.53 A
IntiSymRMS SLG 2870.17 A

LECA LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-5, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

T-LECB BKR 110A
InterruptingRating 35.0 kA
Manufacturer SQUARE D
Type PowerPact H-Frame, 3.2S
Settings
Ir (50-150A); tr (Fixed) 110 (110A); Fixed
Isd (1.5 - 10 x Ir); ted 10 (1100A); Fixed
Ii (1.5 - 15 x Ir) 15 (2250A)
INST OR Fixed (2277A)
SensorTrip 150.0 A
DeviceVoltage 600 V
Frame/Model HG

T-LECB FEEDER
CableSize 1 AWG
QtyPerPhase 1
Length 230.0 ft
ConductorType Copper

T-LECB
Nominal kVA 75 kVA
Z% 5.2113 %
X/R 1.4500
InrushFactor 8.7

LECB FEEDER
CableSize 250 kcmil
QtyPerPhase 1
Length 10.0 ft
ConductorType Copper

LECB MAIN BKR 250A
InterruptingRating 25.0 kA
Manufacturer SQUARE D
Type PowerPact J-Frame, 3.2
Settings
Ir 250 (250A)
tr 2
Ii 5 (1250A)
INST OR Fixed (3062A)
SensorTrip 250.0 A
DeviceVoltage 600 V
Frame/Model JD

LECB 250A, 10KAIC
SystemNominalVoltage 208.0 V
IntiSymRMS 3P 2969.36 A
IntiSymRMS SLG 3190.64 A

LECB LROST BKR 30A
InterruptingRating 10.0 kA
Manufacturer SQUARE D
Type QO, 3-Pole
Settings
Fixed (730-5, 30A)
SensorTrip 30.0 A
DeviceVoltage 240 V
Frame/Model QO

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.icthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

FPL

January 12, 2026

Salas O'Brien Company
2950 Kraft Dr
Nashville, TN 37204

Re: Available Fault Current for Rehab Hospital

Dear Salas O'Brien Company:

Thank you for contacting FPL about the available fault current at Rehab Hospital. Based on the plans you have provided dated December 18 2025, the maximum available fault current at the transformer secondary terminals is estimated to be 21031 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 65 amp type Bayonet fuse. The primary service voltage is 12.4kV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me.

Sincerely,

Dwight Quimbay Nolasco
Distribution Engineer

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

E5.02

ELECTRICAL - ONE LINE DIAGRAM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ANSI B SHEETS

Switchboard: MSB

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: M.C.B.
Mains Rating: 1600 A

CKT	Circuit Description	OC Device Size	# of Poles	Connected Load	Remarks
1	ATS-EC	250 A	3	134.37 kVA	
2	ATS-LS	150 A	3	12.36 kVA	
3	ATS-EQ	400 A	3	309.80 kVA	
4	HNA	400 A	3	116.00 kVA	
5	HNB	400 A	3	207.43 kVA	
6	T-LNA	110 A	3	56.33 kVA	
7	T-LNK	110 A	3	45.88 kVA	
8	RTU-3 DX	175 A	3	117.23 kVA	
9	RTU-2 DX	150 A	3	105.59 kVA	
10	RTU-1 DX	125 A	3	89.79 kVA	
11	QUICK CONNECT	1600 A	3	0.00 kVA	
12	USABLE SPACE	--	3	--	
13	USABLE SPACE	--	3	--	
14	USABLE SPACE	--	3	--	
15	USABLE SPACE	--	3	--	
16	USABLE SPACE	--	3	--	
17	USABLE SPACE	--	3	--	
18	USABLE SPACE	--	3	--	
19	USABLE SPACE	--	3	--	
20	TVSS	30 A	3	0.00 kVA	
			Total Connected Load:	1194.75 kVA	
			Total Connected Current:	1437 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment - Hospital	359190 VA	85.00%	305312 VA	**Total Conn. Load:**	1194.75 kVA
General	27248 VA	85.00%	23161 VA	**Total Est. Demand:**	926.35 kVA
Kitchen Equipment - Non-Dwelling Unit	126094 VA	65.00%	81961 VA	**Total Est. Design:**	926361 VA
Lighting - Hospital	16409 VA	100.00%	16409 VA	**Total Conn. Current:**	1437 A
Lighting Continuous	60 VA	100.00%	60 VA	**Total Est. Demand Current:**	1114 A
Motor - Hospital	450620 VA	85.00%	383027 VA	**Total Est. Design Current:**	1114 A
Power	7965 VA	100.00%	7965 VA		
Receptacle - Hospital	207430 VA	52.41%	108715 VA		

Notes:
MAIN BREAKER AND FEEDER SHALL BE GROUND FAULT PROTECTED.

Panel: ECDP

Location:
Supply From: ATS-EC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: M.L.O.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	T-LECB	Lighti...	110 A	3	22.78 kVA			24.52 kVA			3	70 A	Lighti...	T-LECA	2
3	--	--	--	--		19.76 kVA			20.98 kVA		--	--	--	--	4
5	--	--	--	--			21.07 kVA			25.27 kVA	--	--	--	--	6
7	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	8
9	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	10
11	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	12
13	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	14
15	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	16
17	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	18
19	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
				Total Load:	47.30 kVA			40.73 kVA		46.34 kVA					
				Total Amps:	174 A			147 A		170 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	2880 VA	100.00%	2880 VA	**Total Conn. Load:**	134.37 kVA
Lighting - Hospital	6043 VA	100.00%	6043 VA	**Total Est. Demand:**	79.63 kVA
General	8748 VA	85.00%	7436 VA	**Total Est. Design:**	79.63 kVA
Receptacle - Hospital	116864 VA	54.28%	63432 VA	**Total Conn. Current:**	162 A
				Total Est. Demand Current:	96 A
				Total Est. Design Current:	96 A

Notes:

Panel: EQDP

Location:
Supply From: ATS-EQ
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: M.L.O.
Mains Rating: 400 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	T-LEQK	Kitch...	110 A	3	19.79 kVA			2.06 kVA			3	45 A	Spar...	T-LEQA	2
3	--	--	--	--		17.98 kVA			3.24 kVA		--	--	--	--	4
5	--	--	--	--			19.48 kVA			1.91 kVA	--	--	--	--	6
7	T-LEQB	Spar...	45 A	3	8.92 kVA			49.14 kVA			3	225 A	Spar...	HEQB	8
9	--	--	--	--		5.86 kVA			49.14 kVA		--	--	--	--	10
11	--	--	--	--			6.07 kVA			49.14 kVA	--	--	--	--	12
13	UH-1	Motor...	15 A	1	3.00 kVA			12.50 kVA			3	60 A	Kitch...	DISH MACHINE	14
15	RTU-3 FANS	Motor...	50 A	3		12.19 kVA			12.50 kVA		--	--	--	--	16
17	--	--	--	--			12.19 kVA			12.50 kVA	--	--	--	--	18
19	--	--	--	--	12.19 kVA			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
				Total Load:	107.60 kVA			100.91 kVA		101.29 kVA					
				Total Amps:	389 A			364 A		366 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	45 VA	100.00%	45 VA	**Total Conn. Load:**	309.80 kVA
Kitchen Equipment - Non-Dwelling Unit	91298 VA	65.00%	59344 VA	**Total Est. Demand:**	245.75 kVA
General	900 VA	85.00%	765 VA	**Total Est. Design:**	245.75 kVA
Equipment - Hospital	75010 VA	85.00%	63759 VA	**Total Conn. Current:**	373 A
Motor - Hospital	138019 VA	85.00%	117316 VA	**Total Est. Demand Current:**	296 A
Receptacle - Hospital	4526 VA	100.00%	4526 VA	**Total Est. Design Current:**	296 A

Notes:

Switchboard: EDB

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: M.L.O.
Mains Rating: 600 A

CKT	Circuit Description	OC Device Size	# of Poles	Connected Load	Remarks
1	ATS-EC	250 A	3	134.37 kVA	
2	ATS-LS	150 A	3	12.36 kVA	
3	ATS-EQ	400 A	3	309.80 kVA	
4	USABLE SPACE	--	3	--	
5	USABLE SPACE	--	3	--	
6	USABLE SPACE	--	3	--	
7	USABLE SPACE	--	3	--	
8	USABLE SPACE	--	3	--	
9	USABLE SPACE	--	3	--	
10	USABLE SPACE	--	3	--	
11	USABLE SPACE	--	3	--	
12	TVSS	20 A	3	0.00 kVA	
			Total Connected Load:	456.52 kVA	
			Total Connected Current:	549 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment - Hospital	75190 VA	85.00%	63912 VA	**Total Conn. Load:**	456.52 kVA
General	15248 VA	85.00%	12961 VA	**Total Est. Demand:**	334.15 kVA
Kitchen Equipment - Non-Dwelling Unit	91298 VA	65.00%	59344 VA	**Total Est. Design:**	334167 VA
Lighting - Hospital	11635 VA	100.00%	11635 VA	**Total Conn. Current:**	549 A
Lighting Continuous	60 VA	100.00%	60 VA	**Total Est. Demand Current:**	402 A
Motor - Hospital	138019 VA	85.00%	117316 VA	**Total Est. Design Current:**	402 A
Power	2925 VA	100.00%	2925 VA		
Receptacle - Hospital	122290 VA	54.09%	66145 VA		

Notes:

Panel: LEQA

Location:
Supply From: T-LEQA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 100 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	CU-3	Equip...	50 A	2	0.00 kVA			0.00 kVA			2	50 A	Equip...	CU-1	2
3	--	--	--	--		0.00 kVA			0.00 kVA		--	--	--	--	4
5	CU-2	Equip...	50 A	2			0.00 kVA			0.18 kVA	1	20 A	Rece...	REC - AC CONDENSATE PUMP	6
7	--	--	--	--	0.00 kVA			0.70 kVA			1	15 A	Motor...	DEF-1	8
9	EF 3-2	Motor...	15 A	1		0.70 kVA			0.83 kVA		3	15 A	Motor...	VP-1	10
11	RTU-3 LTG/CONV	Gene...	20 A	1			0.18 kVA			0.83 kVA	--	--	--	--	12
13	RTU-2 LTG/CONV	Gene...	20 A	1	0.18 kVA			0.83 kVA			--	--	--	--	14
15	CP-1	Motor...	20 A	1		1.18 kVA			0.18 kVA		1	20 A	Gene...	GAS HEATER CONTROLS	16
17	CP-2	Motor...	20 A	1			0.50 kVA			0.18 kVA	1	20 A	Gene...	GAS HEATER CONTROLS	18
19	REC - AC CONDENSATE PUMP	Rece...	20 A	1	0.18 kVA			0.18 kVA			1	20 A	Rece...	REC - AC CONDENSATE PUMP	20
21	REC - AC CONDENSATE PUMP	Rece...	20 A	1		0.18 kVA			0.18 kVA		1	20 A	Equip...	RTU CONTROL PANEL	22
23	SPARE	--	20 A	1			0.00 kVA			0.05 kVA	1	20 A	Power	WATER HEATER EPO	24
25	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	26
27	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	28
29	SPARE	--	20 A	1			0.00 kVA			--	1	--	--	USABLE SPACE	30
31	SPARE	--	20 A	1	0.00 kVA			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
				Total Load:	2.06 kVA			3.24 kVA		1.91 kVA					
				Total Amps:	17 A			27 A		16 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	45 VA	100.00%	45 VA	**Total Conn. Load:**	7.22 kVA
General	720 VA	85.00%	612 VA	**Total Est. Demand:**	6.25 kVA
Equipment - Hospital	180 VA	85.00%	153 VA	**Total Est. Design:**	6.25 kVA
Motor - Hospital	5553 VA	85.00%	4720 VA	**Total Conn. Current:**	20 A
Receptacle - Hospital	720 VA	100.00%	720 VA	**Total Est. Demand Current:**	17 A
				Total Est. Design Current:	17 A

Notes:

Panel: LECA

Location:
Supply From: T-LECA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 150 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - GENERAL	Lighti...	20 A	1	1.32 kVA			1.05 kVA			1	20 A	Lighti...	LTG - PAT. RM	2
3	LTG - GENERAL	Lighti...	20 A	1		0.80 kVA			1.01 kVA		1	20 A	Lighti...	LTG - GENERAL	4
5	LTG - PAT. RM	Lighti...	20 A	1			1.22 kVA			0.72 kVA	1	20 A	Rece...	REC - PAT. RM	6
7	REC - PAT. RM	Rece...	20 A	1	0.90 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	8
9	REC - PAT. RM	Rece...	20 A	1		0.72 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	10
11	REC - PAT. RM	Rece...	20 A	1			0.90 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	12
13	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.72 kVA			1	20 A	Rece...	REC - PAT. RM	14
15	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	16
17	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	18
19	REC - PAT. RM	Rece...	20 A	1	0.90 kVA			0.72 kVA			1	20 A	Rece...	REC - PAT. RM	20
21	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	22
23	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	24
25	REC - PAT. RM	Rece...	20 A	1	0.90 kVA			0.72 kVA			1	20 A	Rece...	REC - PAT. RM	26
27	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.90 kVA		1	20 A	Rece...	REC - PAT. RM	28
29	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.72 kVA	1	20 A	Rece...	REC - PAT. RM	30
31	REC - PAT. RM	Rece...	20 A	1	0.90 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	32
33	REC - PAT. RM	Rece...	20 A	1		0.72 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	34
35	REC - RECEPT	Rece...	20 A	1			0.36 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	36
37	REC - DIALYSIS	Rece...	20 A	1	0.18 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	38
39	REC - DIALYSIS	Rece...	20 A	1		0.18 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	40
41	REC - OFFICES	Rece...	20 A	1			0.72 kVA			0.54 kVA	1	20 A	Rece...	REC - OFFICES	42
43	REC - CENTRAL STORAGE	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - THER. WORK	44
45	REC - MAINTENANCE	Rece...	20 A	1		0.72 kVA			0.54 kVA		1	20 A	Rece...	REC - THER. WORK	46
47	REC - MEDS PYX	Rece...	20 A	1			0.36 kVA			0.18 kVA	1	20 A	Rece...	REC - CENTRAL STORAGE	48
49	REC - ED STOR	Rece...	20 A	1	0.72 kVA			0.36 kVA			1	20 A	Rece...	REC - CASE MGR	50
51	REC - ED EXAM HEADWALL	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - MEDS	52
53	REC - CORRIDOR	Rece...	20 A	1			0.36 kVA			1.20 kVA	1	20 A	Rece...	REC - MEDS REF	54
55	REC - PHARMACY REF	Rece...	20 A	1	1.20 kVA			0.36 kVA			1	20 A	Rece...	REC - ED EXAM HEADWALL	56
57	REC - ISO PAT RM. HEADWALL	Rece...	20 A	1		0.36 kVA			0.54 kVA		1	20 A	Rece...	REC - PHARM	58
59	REC - CORRIDOR	Rece...	20 A	1			0.18 kVA			0.18 kVA	1	20 A	Rece...	REC - CORRIDOR	60
61	REC - COPIER	Rece...	20 A	1	1.20 kVA			0.36 kVA			1	20 A	Rece...	REC - ISO PAT RM. HEADWALL	62
63	REC - LAB	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - ISO PAT RM. HEADWALL	64
65	REC - ADL DRYER	Rece...	20 A	2			2.50 kVA			0.36 kVA	1	20 A	Rece...	REC - ISO PAT RM. HEADWALL	66
67	--	--	--	--	2.50 kVA			0.36 kVA			1	20 A	Rece...	REC - LAB	68
69	REC - ADL STOVE	Rece...	20 A	2		2.50 kVA			1.20 kVA		1	20 A	Rece...	REC - LAB REF	70
71	--	--	--	--			2.50 kVA			0.18 kVA	1	20 A	Gene...	O2 MANIFOLD	72
73	REC - RISER	Rece...	20 A	1	0.54 kVA			0.18 kVA			1	20 A	Rece...	REC - ADL WASHER	74
75	REC - ATT	Rece...	20 A	1		0.18 kVA			1.20 kVA		1	20 A	Rece...	REC - ADL REF	76
77	REC - TECH EQ	Rece...	30 A	1			2.00 kVA			0.60 kVA	1	20 A	Rece...	REC - ADL DISHWASHER	78
79	REC - TECH EQ	Rece...	30 A	1	2.00 kVA			0.36 kVA			1	20 A	Rece...	REC - CATV	80
81	LTG - TSER	Lighti...	20 A	1		0.11 kVA			0.18 kVA		1	20 A	Rece...	REC - FUTURE	82
83	REC - PHARMACY COPIER	Rece...	20 A	1			1.20 kVA			2.00 kVA	1	30 A	Rece...	REC - TECH EQ	84
85	REC - PHARM	Rece...	20 A	1	0.72 kVA			0.36 kVA			1	20 A	Rece...	REC - KITCHEN OFFICE	86
87	REC - TECH EQ	Rece...	20 A	1		0.18 kVA			0.36 kVA		1	20 A	Rece...	REC - O2	88
89	REC - FUTURE	Rece...	20 A	1			0.18 kVA			0.36 kVA	1	20 A	Rece...	REC - ELEC. ROOM	90
91	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.20 kVA			1	20 A	Rece...	REC - ED EXAM CC	92
93	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.00 kVA		1	20 A	--	SPARE	94
95	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	96
97	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	98
99	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	100
101	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	102
103	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	104
105	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	106
107	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	108
109	SPARE	--	20 A	1	0.00 kVA			--			1	--	--	USABLE SPACE	110
111	SPARE	--	20 A	1		0.00 kVA			--		1	--	--	USABLE SPACE	112
113	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	114
115	USABLE SPACE	--	--	1	--			0.00 kVA			3	20 A	--	TVSS	116
117	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	118
119	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	120
				Total Load:	24.52 kVA			20.98 kVA		25.27 kVA					
				Total Amps:	209 A			175 A		215 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Hospital	3858 VA	100.00%	3858 VA	**Total Conn. Load:**	70.77 kVA
General	1846 VA	85.00%	1569 VA	**Total Est. Demand:**	42.90 kVA
Receptacle - Hospital	65204 VA	57.67%	37602 VA	**Total Est. Design:**	42.90 kVA
				Total Conn. Current:	196 A
				Total Est. Demand Current:	119 A
				Total Est. Design Current:	119 A

Notes:

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictbomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H092125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E6.01

ELECTRICAL - PANEL SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL AS ISSUED

Panel: HEAA

Location:
Supply From: ATS-LS
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: M.L.O.
Mains Rating: 150 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	SITE LIGHTING	Lighti...	20 A	2	0.87 kVA			3.59 kVA			3	45 A	Lighti...	T-LEAA	2
3	--	--	--	--		0.87 kVA			3.05 kVA		--	--	--	--	4
5	T-LEAB	Lighti...	45 A	3			1.75 kVA			1.50 kVA	--	--	--	--	6
7	--	--	--	--	0.18 kVA			--			1	--	--	USABLE SPACE	8
9	--	--	--	--		0.57 kVA			--		1	--	--	USABLE SPACE	10
11	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	12
13	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	14
15	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	16
17	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	18
19	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		4.64 kVA			4.47 kVA			3.25 kVA				
			Total Amps:		17 A			17 A			12 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Hospital	5630 VA	100.00%	5630 VA	**Total Conn. Load:** 12.36 kVA
Lighting Continuous	60 VA	100.00%	60 VA	**Total Est. Demand:** 11.49 kVA
General	5600 VA	85.00%	4760 VA	**Total Est. Design:** 11.51 kVA
Equipment - Hospital	180 VA	85.00%	153 VA	**Total Conn. Current:** 15 A
Motor - Hospital	0 VA	0.00%	0 VA	**Total Est. Demand Current:** 14 A
Receptacle - Hospital	900 VA	100.00%	900 VA	**Total Est. Design Current:** 14 A

Notes:

Panel: LEAA

Location:
Supply From: T-LEAA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 100 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - CORRIDOR	Lighti...	20 A	1	1.00 kVA			0.45 kVA			1	20 A	Lighti...	LTG - CORRIDOR	2
3	LTG - EMER. ELEC	Lighti...	20 A	1		0.01 kVA			1.00 kVA		1	20 A	Gene...	AUTODOORS	4
5	REC - ATS	Rece...	20 A	1			0.36 kVA			0.50 kVA	1	20 A	Gene...	FACU	6
7	REC - GENERATOR	Rece...	20 A	1	0.18 kVA			0.30 kVA			1	20 A	Lighti...	LTG - GENERATOR	8
9	GENERATOR CONTROL PANEL	Gene...	20 A	1		0.18 kVA			0.50 kVA		1	20 A	Gene...	AUTODOORS	10
11	GENERATOR BATTERY...	Gene...	20 A	1			0.18 kVA			0.10 kVA	1	20 A	Gene...	MGA	12
13	GENERATOR BATTERY HEATER	Gene...	20 A	1	0.18 kVA			0.50 kVA			1	20 A	Gene...	AUTODOORS	14
15	GENERATOR LTG/CONV.	Gene...	20 A	1		0.18 kVA			0.18 kVA		1	20 A	Equip...	LIFT STATION...	16
17	LIGHTING CONTACTOR	Gene...	20 A	1			0.18 kVA			0.18 kVA	1	20 A	Rece...	REC - TSER PAGING	18
19	JACKET HEATER	Gene...	20 A	2	1.00 kVA			0.00 kVA			1	20 A	--	SPARE	20
21	--	--	--	--		1.00 kVA			0.00 kVA		1	20 A	--	SPARE	22
23	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0.00 kVA			--			1	--	--	USABLE SPACE	26
27	SPARE	--	20 A	1		0.00 kVA			--		1	--	--	USABLE SPACE	28
29	SPARE	--	20 A	1			0.00 kVA			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	20 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		3.59 kVA			3.05 kVA			1.50 kVA				
			Total Amps:		32 A			27 A			13 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Hospital	1702 VA	100.00%	1702 VA	**Total Conn. Load:** 8.13 kVA
Lighting Continuous	48 VA	100.00%	48 VA	**Total Est. Demand:** 7.28 kVA
General	5500 VA	85.00%	4675 VA	**Total Est. Design:** 7.29 kVA
Equipment - Hospital	180 VA	85.00%	153 VA	**Total Conn. Current:** 23 A
Receptacle - Hospital	720 VA	100.00%	720 VA	**Total Est. Demand Current:** 20 A
				Total Est. Design Current: 20 A

Notes:

Panel: LEQK

Location:
Supply From: T-LEQK
Mounting: Flush
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	FOOD PROCESSOR (GF)	Kitch...	15 A	3	0.70 kVA			0.94 kVA			3	15 A	Kitch...	DISPOSER	2
3	--	--	--	--		0.70 kVA			0.94 kVA		--	--	--	--	4
5	--	--	--	--			0.70 kVA			0.94 kVA	--	--	--	--	6
7	DUMP STATION (GF)	Kitch...	20 A	1	1.80 kVA			1.80 kVA			1	20 A	Kitch...	REC - CONV. (GF)	8
9	SHUNT TRIP	--	--	1		--			--		1	--	--	SHUNT TRIP	10
11	DUMP STATION (GF)	Kitch...	20 A	1			1.80 kVA			0.84 kVA	1	15 A	Kitch...	COMBI OVEN (GF)	12
13	SHUNT TRIP	--	--	1	--			--			1	--	--	SHUNT TRIP	14
15	REC - CONV. (GF)	Kitch...	20 A	1		1.80 kVA			0.84 kVA		1	15 A	Kitch...	COMBI OVEN (GF)	16
17	SHUNT TRIP	--	--	1			--			--	1	--	--	SHUNT TRIP	18
19	CONVECTION OVEN (GF)	Kitch...	15 A	1	0.72 kVA			0.72 kVA			1	15 A	Kitch...	20 QT. MIXER	20
21	SHUNT TRIP	--	--	1		--			1.02 kVA		1	15 A	Kitch...	ICE/WATER DISPENSER	22
23	CONVECTION OVEN (GF)	Kitch...	15 A	1			0.72 kVA			0.50 kVA	1	20 A	Kitch...	REACH-IN REF.	24
25	SHUNT TRIP	--	--	1	--			0.94 kVA			3	15 A	Kitch...	DISPOSER	26
27	FRYER (GF)	Kitch...	60 A	3		5.76 kVA			0.94 kVA		--	--	--	--	28
29	--	--	--	--			5.76 kVA			0.94 kVA	--	--	--	--	30
31	--	--	--	--	5.76 kVA			1.92 kVA			1	20 A	Kitch...	FIRE SUPRESSION	32
33	SHUNT TRIP	--	--	1		--			3.12 kVA		2	40 A	Kitch...	COFFEE MAKER	34
35	EXHAUST HOOD	Kitch...	20 A	1			1.92 kVA			3.12 kVA	--	--	--	--	36
37	HOT BOX	Kitch...	15 A	2	0.62 kVA			1.92 kVA			1	20 A	Kitch...	ICE TEA BREWER	38
39	--	--	--	--		0.62 kVA			1.12 kVA		2	20 A	Rece...	BEVERAGE CASE	40
41	ICE MAKER	Kitch...	15 A	1			0.18 kVA			1.12 kVA	--	--	--	--	42
43	TEMPERING KIT	Rece...	20 A	1	1.02 kVA			0.94 kVA			3	15 A	Kitch...	DISPOSER	44
45	REC - SODA	Rece...	20 A	1		0.18 kVA			0.94 kVA		--	--	--	--	46
47	SPARE	--	20 A	1			0.00 kVA			0.94 kVA	--	--	--	--	48
49	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	50
51	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	52
53	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	54
55	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	56
57	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	58
59	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	60
61	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	62
63	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	64
65	USABLE SPACE	--	--	1			--			0.00 kVA	1	20 A	--	SPARE	66
67	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	68
69	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	70
71	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	72
			Total Load:		19.79 kVA			17.98 kVA			19.48 kVA				
			Total Amps:		167 A			150 A			164 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen Equipment - Non-Dwelling Unit	53803 VA	65.00%	34972 VA	**Total Conn. Load:** 57.25 kVA
Receptacle - Hospital	3446 VA	100.00%	3446 VA	**Total Est. Demand:** 38.42 kVA
				Total Est. Design: 38.42 kVA
				Total Conn. Current: 159 A
				Total Est. Demand Current: 107 A
				Total Est. Design Current: 107 A

Notes:
(GF) = GROUND FAULT TYPE BREAKER

Panel: HNA

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: M.L.O.
Mains Rating: 400 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	VAV	Equip...	40 A	3	8.00 kVA			4.67 kVA			3	25 A	Equip...	VAV	2
3	--	--	--	--		8.00 kVA			4.67 kVA		--	--	--	--	4
5	--	--	--	--			8.00 kVA			4.67 kVA	--	--	--	--	6
7	VAV	Equip...	60 A	3	11.50 kVA			5.00 kVA			3	25 A	Equip...	VAV	8
9	--	--	--	--		11.50 kVA			5.00 kVA		--	--	--	--	10
11	--	--	--	--			11.50 kVA			5.00 kVA	--	--	--	--	12
13	VAV	Equip...	45 A	3	9.50 kVA			--			1	--	--	USABLE SPACE	14
15	--	--	--	--		9.50 kVA			--		1	--	--	USABLE SPACE	16
17	--	--	--	--			9.50 kVA			--	1	--	--	USABLE SPACE	18
19	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		38.67 kVA			38.67 kVA			38.67 kVA				
			Total Amps:		140 A			140 A			140 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment - Hospital	116000 VA	85.00%	98600 VA	**Total Conn. Load:** 116.00 kVA
				Total Est. Demand: 98.60 kVA
				Total Est. Design: 98.60 kVA
				Total Conn. Current: 140 A
				Total Est. Demand Current: 119 A
				Total Est. Design Current: 119 A

Notes:

Panel: LNA

Location:
Supply From: T-LNA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - CORRIDOR	Lighti...	20 A	1	1.51 kVA			0.70 kVA			1	20 A	Lighti...	LTG - PAT. RM	2
3	LTG - GENERAL	Lighti...	20 A	1		1.36 kVA			0.69 kVA		1	20 A	Lighti...	LTG - GENERAL	4
5	LTG - PAT. RM	Lighti...	20 A	1			0.88 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	6
7	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	8
9	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	10
11	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	12
13	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	14
15	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	16
17	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	18
19	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	20
21	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	22
23	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	24
25	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	26
27	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	28
29	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	30
31	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	32
33	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.90 kVA		1	20 A	Rece...	REC - GENERAL	34
35	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.72 kVA	1	20 A	Rece...	REC - COORDIRECTIOR	36
37	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - CEO	38
39	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.72 kVA		1	20 A	Rece...	REC - ADMIN/STORAGE	40
41	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.90 kVA	1	20 A	Rece...	REC - THER. WORK	42
43	REC - LOBBY	Rece...	20 A	1	0.54 kVA			0.72 kVA			1	20 A	Rece...	REC - DMO/QUALLITY	44
45	REC - CONFERENCE	Rece...	20 A	1		0.90 kVA			0.54 kVA		1	20 A	Rece...	REC - ADMISSION/TLT	46
47	REC - CONFERENCE	Rece...	20 A	1			0.36 kVA			0.54 kVA	1	20 A	Rece...	REC - MAINTENANCE	48
49	REC - RECEPT.	Rece...	20 A	1	0.36 kVA			0.72 kVA			1	20 A	Rece...	REC - SOILED	50
51	DRINKING FOUNTAIN (GF)	Gene...	20 A	1		0.18 kVA			0.36 kVA		1	20 A	Rece...	REC - TRASH/WASTE	52
53	REC - DRY STORAGE	Rece...	20 A	1			0.72 kVA			0.36 kVA	1	20 A	Rece...	REC - ED EXAM HEADWALL	54
55	REC - CENTRAL STORAGE	Rece...	20 A	1	0.90 kVA			0.72 kVA			1	20 A	Rece...	REC - SPEECH THER	56
57	REC - CLEAN	Rece...	20 A	1		0.72 kVA			0.18 kVA		1	20 A	Rece...	REC - ED EXAM HEADWALL	58
59	REC - CASE MANAGER	Rece...	20 A	1			0.54 kVA			0.36 kVA	1	20 A	Rece...	REC - ISO PAT RM. HEADWALL	60
61	REC - MEDS	Rece...	20 A	1	0.36 kVA			0.90 kVA			1	20 A	Rece...	REC - ISO PAT RM. CONV	62
63	REC - ED EXAM CONV	Rece...	20 A	1		0.72 kVA			0.36 kVA		1	20 A	Rece...	REC - All PAT. ROOM	64
65	REC - LOCKERS/PT	Rece...	20 A	1			0.54 kVA			0.36 kVA	1	20 A	Rece...	REC - TLT	66
67	IRRIGATION CONTROLLER	Gene...	20 A	1	0.18 kVA			0.54 kVA			1	20 A	Rece...	REC - MECH/EVS	68
69	REC - ISO PAT RM. CONV	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - EXTERIOR	70
71	REC - ANTE/BATHING	Rece...	20 A	1			0.36 kVA			0.72 kVA	1	20 A	Rece...	REC - NURSE LOUNGE	72
73	REC - CORRIDOR	Rece...	20 A	1	0.72 kVA			0.18 kVA			1	20 A	Rece...	REC - NURSE LOUNGE	74
75	REC - CORRIDOR	Rece...	20 A	1		0.72 kVA			0.18 kVA		1	20 A	Rece...	REC - NURSE LOUNGE	76
77	REC - POSTAGE	Rece...	20 A	1			0.18 kVA			0.90 kVA	1	20 A	Rece...	REC - ROOF	78
79	REC - SHREDDDER	Rece...	20 A	1	0.18 kVA			0.36 kVA			1	20 A	Rece...	REC - ADL	80
81	REC - COPY	Rece...	20 A	1		0.36 kVA			1.00 kVA		1	20 A	Rece...	REC - HYDRATHERM	82
83	REC - STAFF LOUNGE REF	Rece...	20 A	1			1.20 kVA			0.18 kVA	1	20 A	Rece...	REC - MAT	84
85	REC - STAFF LOUNGE MW	Rece...	20 A	1	0.18 kVA			0.54 kVA			1	20 A	Rece...	REC - GYM	86
87	REC - STAFF LOUNGE	Rece...	20 A	1		0.54 kVA			0.86 kVA		1	20 A	Rece...	REC - GYM	88
89	REC - COLPAC CHILLING	Rece...	20 A	1			1.00 kVA			0.54 kVA	1	20 A	Rece...	REC - GYM	90
91	REC - TREADMILL	Rece...	20 A	1	1.80 kVA			0.36 kVA			1	20 A	Rece...	REC - ADL	92
93	REC - MAT	Rece...	20 A	1		0.18 kVA			0.90 kVA		1	20 A	Rece...	REC - TECH EQ	94
95	REC - GYM	Rece...	20 A	1			0.54 kVA			0.36 kVA	1	20 A	Rece...	REC - TECH EQ	96
97	REC - GYM	Rece...	20 A	1	0.36 kVA			1.44 kVA			1	20 A	Power	REC - ADL PLUG	98
99	REC - LIFT	Rece...	20 A	1		0.18 kVA			0.36 kVA		1	20 A	Rece...	REC - GYM TV	100
101	REC - CEO PRINT	Rece...	20 A	1			0.18 kVA			0.50 kVA	1	20 A	Equip...	MOTORIZED BLINDS	102
103	REC - TECH EQ	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	104
105	REC - TECH EQ	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	106
107	MONUMENT SIGN	Gene...	20 A	1			0.18 kVA			0.00 kVA	1	20 A	--	SPARE	108
109	SIGNAGE	Gene...	20 A	1	0.18 kVA			0.00 kVA			1	20 A	--	SPARE	110
111	REC - GYM	Rece...	20 A	1		1.00 kVA			0.00 kVA		1	20 A	--	SPARE	112
113	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	114
115	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	116
117	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	118
119	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	120
121	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	122
123	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	124
125	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	126
127	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			3	30 A	--	TVSS	128
129	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		--	--	--	--	130
131	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	--	--	--	--	132
			Total Load:		19.47 kVA			19.79 kVA			17.08 kVA				
			Total Amps:		165 A			168 A			142 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	1440 VA	100.00%	1440 VA	**Total Conn. Load:** 56.33 kVA
Lighting - Hospital	3889 VA	100.00%	3889 VA	**Total Est. Demand:** 36.66 kVA
General	1980 VA	85.00%	1683 VA	**Total Est. Design:** 36.66 kVA
Equipment - Hospital	500 VA	85.00%	425 VA	**Total Conn. Current:** 156 A
Motor - Hospital	0 VA	0.00%	0 VA	**Total Est. Demand Current:** 102 A
Receptacle - Hospital	48620 VA	60.28%	29310 VA	**Total Est. Design Current:** 102 A

Notes:

Panel: LNK

Location:
Supply From: T-LNK
Mounting: Flush
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	SLICER	Rece...	15 A	1	0.36 kVA			1.20 kVA			1	20 A	Gene...	HEAT TAPE	2
3	REC - CONV.	Rece...	20 A	1		0.18 kVA			1.20 kVA		1	20 A	Gene...	LTG, DOOR HEATER, ALARM	4
5	HEAT TAPE	Gene...	20 A	1			1.20 kVA			1.20 kVA	1	20 A	Gene...	LTG, DOOR HEATER, ALARM	6
7	REC - KITCHEN CONV.	Rece...	20 A	1	0.72 kVA			0.72 kVA			1	20 A	Rece...	REC - CONV.	8
9	REC - VENDING	Rece...	20 A	1		0.50 kVA			0.72 kVA		1	20 A	Rece...	REC - CONV.	10
11	REC - VENDING	Rece...	20 A	1			0.50 kVA			0.50 kVA	1	20 A	Rece...	REC - VENDING	12
13	SERVING COUNTER LOAD...	Kitch...	45 A	3	4.12 kVA			1.00 kVA			1	20 A	Rece...	REC - MW	14
15	--	--	--	--		4.12 kVA			0.72 kVA		1	20 A	Rece...	REC - CONV.	16
17	--	--	--	--			4.12 kVA			7.48 kVA	3	80 A	Kitch...	COOKS TABLE LOAD CENTER	18
19	SPARE	--	20 A	1	0.00 kVA			7.48 kVA			--	--	--	--	20
21	SPARE	--	20 A	1		0.00 kVA			7.48 kVA		--	--	--	--	22
23	SPARE	--	20 A	1			0.00 kVA			0.18 kVA	1	20 A	Rece...	REC - DINING	24
25	SPARE	--	20 A	1	0.00 kVA			0.18 kVA			1	20 A	Rece...	REC - DINING	26
27	SPARE	--	20 A	1		0

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ON ORIGINAL ANSI SIZE D

Panel: HNB

Location:
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: M.L.O.
Mains Rating: 400 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	T-LNB	Lighti...	110 A	3	12.24 kVA			3.24 kVA			--	45 A	Spar...	T-LNC	2
3	--	--	--	--		10.41 kVA			0.90 kVA		--	--	--	--	4
5	--	--	--	--			11.88 kVA			1.26 kVA	--	--	--	--	6
7	VAV	Equip...	40 A	3	8.17 kVA			12.00 kVA			3	60 A	Equip...	VAV	8
9	--	--	--	--		8.17 kVA			12.00 kVA		--	--	--	--	10
11	--	--	--	--			8.17 kVA			12.00 kVA	--	--	--	--	12
13	VAV	Equip...	20 A	3	3.50 kVA			8.17 kVA			3	40 A	Equip...	VAV	14
15	--	--	--	--		3.50 kVA			8.17 kVA		--	--	--	--	16
17	--	--	--	--			3.50 kVA			8.17 kVA	--	--	--	--	18
19	VAV	Equip...	35 A	3	7.33 kVA			8.33 kVA			3	40 A	Equip...	VAV	20
21	--	--	--	--		7.33 kVA			8.33 kVA		--	--	--	--	22
23	--	--	--	--			7.33 kVA			8.33 kVA	--	--	--	--	24
25	VAV	Equip...	40 A	3	8.33 kVA			--			1	--	--	USABLE SPACE	26
27	--	--	--	--		8.33 kVA			--		1	--	--	USABLE SPACE	28
29	--	--	--	--			8.33 kVA			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		71.31 kVA		67.14 kVA		68.97 kVA						
			Total Amps:		258 A		242 A		250 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	3600 VA	100.00%	3600 VA	**Total Conn. Load:**	207.43 kVA
Lighting - Hospital	893 VA	100.00%	893 VA	**Total Est. Demand:**	171.40 kVA
General	5220 VA	85.00%	4437 VA	**Total Est. Design:**	171.40 kVA
Equipment - Hospital	167500 VA	85.00%	142375 VA	**Total Conn. Current:**	249 A
Receptacle - Hospital	30240 VA	66.53%	20120 VA	**Total Est. Demand Current:**	206 A
				Total Est. Design Current:	206 A

Notes:

Panel: LEAB

Location:
Supply From: T-LEAB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 100 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - EXTERIOR	Lighti...	20 A	1	1.65 kVA			0.10 kVA			1	20 A	Gene...	MGA	2
3	REC - TDR PAGING	Rece...	20 A	1		0.18 kVA			0.00 kVA		1	20 A	Motor...	DPA	4
5	LTG - CORRIDOR	Lighti...	20 A	1			0.57 kVA			0.00 kVA	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	8
9	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1		0.00 kVA			--		1	--	--	USABLE SPACE	16
17	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	18
19	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	20 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		1.75 kVA		0.18 kVA		0.57 kVA						
			Total Amps:		15 A		2 A		5 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting - Hospital	2190 VA	100.00%	2190 VA	**Total Conn. Load:**	2.48 kVA
Lighting Continuous	12 VA	100.00%	12 VA	**Total Est. Demand:**	2.47 kVA
General	100 VA	85.00%	85 VA	**Total Est. Design:**	2.47 kVA
Motor - Hospital	0 VA	0.00%	0 VA	**Total Conn. Current:**	7 A
Receptacle - Hospital	180 VA	100.00%	180 VA	**Total Est. Demand Current:**	7 A
				Total Est. Design Current:	7 A

Notes:

Panel: LNC

Location:
Supply From: T-LNC
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 100 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	REC - DAY SPACE	Rece...	20 A	1	0.36 kVA			0.72 kVA			1	20 A	Rece...	REC - DAY SPACE	2
3	REC - DAY SPACE	Rece...	20 A	1		0.36 kVA			0.18 kVA		1	20 A	Rece...	REC - DAY SPACE	4
5	REC - CORRIDOR	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - CORRIDOR	6
7	REC - DAY SPACE	Rece...	20 A	1	1.08 kVA			0.18 kVA			1	20 A	Rece...	REC - DAY SPACE	8
9	REC - DAY SPACE TV	Rece...	20 A	1		0.18 kVA			0.18 kVA		1	20 A	Rece...	REC - DAY SPACE	10
11	REC - DAY SPACE	Rece...	20 A	1			0.18 kVA			0.36 kVA	1	20 A	Rece...	REC - DAY SPACE TV	12
13	REC - DAY SPACE TV	Rece...	20 A	1	0.18 kVA			0.72 kVA			1	20 A	Rece...	REC - DAY SPACE	14
15	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	16
17	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	20
21	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	22
23	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	24
25	USABLE SPACE	--	--	1	--			0.00 kVA			1	20 A	--	SPARE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			0.00 kVA			3	20 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
			Total Load:		3.24 kVA		0.90 kVA		1.26 kVA						
			Total Amps:		27 A		8 A		11 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle - Hospital	5400 VA	100.00%	5400 VA	**Total Conn. Load:**	5.40 kVA
				Total Est. Demand:	5.40 kVA
				Total Est. Design:	5.40 kVA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	15 A
				Total Est. Design Current:	15 A

Notes:

Panel: LNB

Location:
Supply From: T-LNB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - PAT. RM	Gene...	20 A	1	0.90 kVA			0.90 kVA			1	20 A	Gene...	LTG - PAT. RM	2
3	LTG - PAT. RM	Gene...	20 A	1		0.90 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	4
5	LTG - PAT. RM	Gene...	20 A	1			0.90 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	6
7	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	8
9	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	10
11	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	12
13	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	14
15	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	16
17	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	18
19	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	20
21	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	22
23	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	24
25	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	26
27	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	28
29	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	30
31	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	32
33	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	34
35	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	36
37	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.36 kVA			1	20 A	Rece...	REC - PAT. RM	38
39	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - PAT. RM	40
41	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - PAT. RM	42
43	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.72 kVA			1	20 A	Gene...	LTG - PAT. RM	44
45	REC - PAT. RM	Rece...	20 A	1		0.36 kVA			0.90 kVA		1	20 A	Gene...	LTG - PAT. RM	46
47	REC - PAT. RM	Rece...	20 A	1			0.36 kVA			0.54 kVA	1	20 A	Rece...	REC - NS	48
49	REC - PAT. RM	Rece...	20 A	1	0.36 kVA			0.90 kVA			1	20 A	Rece...	REC - DOCUMENT	50
51	LTG - CORRIDOR	Lighti...	20 A	1		0.89 kVA			0.36 kVA		1	20 A	Rece...	REC - DOCUMENT	52
53	REC - NS	Rece...	20 A	1			0.36 kVA			0.36 kVA	1	20 A	Rece...	REC - DIALYSIS/EVS	54
55	REC - NS	Rece...	20 A	1	0.54 kVA			0.18 kVA			1	20 A	Rece...	REC - NS SHREDDER	56
57	REC - NS	Rece...	20 A	1		0.36 kVA			0.18 kVA		1	20 A	Rece...	REC - NS SHREDDER	58
59	REC - CORRIDOR	Rece...	20 A	1			0.72 kVA			0.54 kVA	1	20 A	Rece...	REC - NS	60
61	REC - CORRIDOR	Rece...	20 A	1	0.54 kVA			0.72 kVA			1	20 A	Rece...	REC - ROOF	62
63	REC - MED REC	Rece...	20 A	1		0.54 kVA			0.54 kVA		1	20 A	Rece...	REC - ROOF	64
65	REC - CLEAN/SOILED	Rece...	20 A	1			0.54 kVA			0.36 kVA	1	20 A	Rece...	REC - TDR	66
67	REC - TDR	Rece...	20 A	1	0.36 kVA			1.44 kVA			1	20 A	Power	REC - EQ STOR	68
69	REC - TDR	Rece...	20 A	1		0.54 kVA			0.18 kVA		1	20 A	Rece...	REC - ALCOVE	70
71	REC - STORAGE	Power	20 A	1			2.16 kVA			0.36 kVA	1	20 A	Rece...	REC - STAFF TLT	72
73	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	74
75	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	76
77	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	78
79	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	80
81	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	82
83	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	84
85	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	86
87	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	88
89	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	90
91	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	92
93	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	94
95	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	96
97	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	98
99	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	100
101	USABLE SPACE	--	--	1			--			0.00 kVA	1	20 A	--	SPARE	102
103	USABLE SPACE	--	--	1	--			0.00 kVA			1	20 A	--	SPARE	104
105	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	106
107	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	108
109	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	110
111	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	112
113	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	114
115	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	116
117	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	118
119	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	120
			Total Load:		12.24 kVA		10.41 kVA		11.88 kVA						
			Total Amps:		104 A		87 A		101 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	3600 VA	100.00%	3600 VA	**Total Conn. Load:**	34.53 kVA
Lighting - Hospital	893 VA	100.00%	893 VA	**Total Est. Demand:**	26.33 kVA
General	5220 VA	85.00%	4437 VA	**Total Est. Design:**	26.33 kVA
Receptacle - Hospital	24840 VA	70.13%	17420 VA	**Total Conn. Current:**	96 A
				Total Est. Demand Current:	73 A
				Total Est. Design Current:	73 A

Notes:

Panel: LECB

Location:
Supply From: T-LECB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 250 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	LTG - PAT. RM	Gene...	20 A	1	1.19 kVA			1.19 kVA			1	20 A	Gene...	LTG - PAT. RM	2
3	LTG - PAT. RM	Gene...	20 A	1		0.95 kVA			1.27 kVA		1	20 A	Lighti...	LTG - PAT. RM	4
5	LTG - PAT. RM	Lighti...	20 A	1			1.27 kVA			1.19 kVA	1	20 A	Gene...	LTG - PAT. RM	6
7	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	8
9	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	10
11	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	12
13	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	14
15	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	16
17	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	18
19	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	20
21	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	22
23	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	24
25	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	26
27	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	28
29	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	30
31	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	32
33	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	34
35	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	36
37	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	38
39	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - PAT. RM	40
41	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.90 kVA	1	20 A	Rece...	REC - PAT. RM	42
43	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			0.90 kVA			1	20 A	Rece...	REC - PAT. RM	44
45	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			1.25 kVA		1	20 A	Lighti...	LTG - GENERAL	46
47	REC - PAT. RM	Rece...	20 A	1			0.72 kVA			0.32 kVA	1	20 A	Lighti...	LTG - GENERAL	48
49	REC - PAT. RM	Rece...	20 A	1	0.72 kVA			1.08 kVA			1	20 A	Rece...	REC - NS	50
51	REC - PAT. RM	Rece...	20 A	1		0.90 kVA			0.72 kVA		1	20 A	Rece...	REC - NS	52
53	LTG - GENERAL	Lighti...	20 A	1			0.43 kVA			0.72 kVA	1	20 A	Rece...	REC - DOCUMENT	54
55	REC - NS	Rece...	20 A	1	0.54 kVA			0.18 kVA			1	20 A	Rece...	REC - NS CC	56
57	REC - NS	Rece...	20 A	1		0.36 kVA			0.36 kVA		1	20 A	Rece...	REC - CORRIDOR	58
59	REC - DOCUMENT	Rece...	20 A	1			0.72 kVA			0.36 kVA	1	20 A	Rece...	REC - CORRIDOR	60
61	REC - DOCUMENT	Rece...	20 A	1	0.72 kVA			1.20 kVA			1	20 A	Rece...	REC - NOUR REF	62
63	REC - NS CC	Rece...	20 A	1		0.18 kVA			1.00 kVA		1	20 A	Rece...	REC - NOUR CM	64
65	REC - OFFICE	Rece...	20 A	1			0.36 kVA			1.00 kVA	1	20 A	Rece...	REC - NOUR MW	66
67	REC - NOUR ICE	Rece...	20 A	1	1.00 kVA			1.44 kVA			1	20 A	Power	REC - EQ STOR	68
69	REC - MEDS REC P	Rece...	20 A	1		0.50 kVA			0.04 kVA		1	20 A	Lighti...	LTG - TDR	70
71	REC - TDR	Rece...	30 A	1			2.00 kVA			0.90 kVA	1	20 A	Rece...	REC - NW	72
73	REC - TDR	Rece...	30 A	1	2.00 kVA			0.18 kVA			1	20 A	Rece...	REC - TDR	74
75	REC - STORAGE	Power	20 A	1		1.44 kVA			0.18 kVA		1	20 A	Rece...	REC - DIALYSIS	76
77	REC - NW COPIER	Rece...	20 A	1			1.20 kVA			0.18 kVA	1	20 A	Rece...	REC - DIALYSIS	78
79	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	80
81	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	82
83	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	84
85	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	86
87	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	88
89	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	90
91	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	92
93	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	94
95	SPARE	--	20 A	1			0.00 kVA			0.00 kVA	1	20 A	--	SPARE	96
97	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			1	20 A	--	SPARE	98
99	SPARE	--	20 A	1		0.00 kVA			0.00 kVA		1	20 A	--	SPARE	100
101	SPARE	--	20 A	1			--			0.00 kVA	1	20 A	--	SPARE	102
103	USABLE SPACE	--	--	1	--			0.00 kVA			1	20 A	--	SPARE	104
105	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	106
107	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	108
109	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	110
111	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	112
113	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	114
115	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	116
117	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	118
119	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	120
			Total Load:		22.78 kVA		19.76 kVA		21.07 kVA						
			Total Amps:		192 A		165 A		177 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	2880 VA	100.00%	2880 VA	**Total Conn. Load:**	63.60 kVA
Lighting - Hospital	2192 VA	100.00%	2192 VA	**Total Est. Demand:**	41.74 kVA
General	6902 VA	85.00%	5867 VA	**Total Est. Design:**	41.74 kVA
Receptacle - Hospital	51660 VA	59.68%	30830 VA	**Total Conn. Current:**	177 A
				Total Est. Demand Current:	116 A
				Total Est. Design Current:	116 A

Notes:

ENVIRONMENTS FOR HEALTH
e4h ARCHITECTURE
817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCHITECTURAL SHEETS

Panel: HEQB

Location:
Supply From: EQDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: M.L.O.
Mains Rating: 225 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	KEF-1	Motor...	15 A	3	1.08 kVA			17.46 kVA			3	80 A	Equip...	MAU-1	2
3	--	--	--	--		1.08 kVA			17.46 kVA		--	--	--	--	4
5	--	--	--	--			1.08 kVA			17.46 kVA	--	--	--	--	6
7	RTU-1 FANS	Motor...	40 A	3	9.98 kVA			12.19 kVA			3	50 A	Motor...	RTU-2 FANS	8
9	--	--	--	--		9.98 kVA			12.19 kVA		--	--	--	--	10
11	--	--	--	--			9.98 kVA			12.19 kVA	--	--	--	--	12
13	EF 3-1	Motor...	15 A	3	0.94 kVA			7.48 kVA			3	35 A	Equip...	LIFT STATION	14
15	--	--	--	--		0.94 kVA			7.48 kVA		--	--	--	--	16
17	--	--	--	--			0.94 kVA			7.48 kVA	--	--	--	--	18
19	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	20
21	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	22
23	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	24
25	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	26
27	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	28
29	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	30
31	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	32
33	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	34
35	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	36
37	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	38
39	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	40
41	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	42
43	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	44
45	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	46
47	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	48
49	USABLE SPACE	--	--	1	--			--			1	--	--	USABLE SPACE	50
51	USABLE SPACE	--	--	1		--			--		1	--	--	USABLE SPACE	52
53	USABLE SPACE	--	--	1			--			--	1	--	--	USABLE SPACE	54
55	USABLE SPACE	--	--	1	--			0.00 kVA			3	30 A	--	TVSS	56
57	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	58
59	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	60
				Total Load:	49.14 kVA			49.14 kVA			49.14 kVA				
				Total Amps:	177 A			177 A			177 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment - Hospital	74830 VA	85.00%	63606 VA	**Total Conn. Load:** 147.41 kVA
Motor - Hospital	72581 VA	85.00%	61694 VA	**Total Est. Demand:** 125.30 kVA
				Total Est. Design: 125.30 kVA
				Total Conn. Current: 177 A
				Total Est. Demand Current: 151 A
				Total Est. Design Current: 151 A

Notes:

Panel: LEQB

Location:
Supply From: T-LEQB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: M.C.B.
Mains Rating: 100 A

CKT	Circuit Description	Load Class.	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Class.	Circuit Description	CKT
1	CU-5	Motor...	25 A	2	1.66 kVA				0.70 kVA		1	15 A	Motor...	EF 1-1	2
3	--	--	--	--		1.66 kVA			1.18 kVA		1	20 A	Motor...	EF 2-1	4
5	CU-6	Motor...	50 A	2			3.54 kVA			1.18 kVA	1	20 A	Motor...	EF 2-2	6
7	--	--	--	--	3.54 kVA			1.66 kVA			2	25 A	Motor...	CU-4	8
9	EF 1-2	Motor...	20 A	1		1.18 kVA			1.66 kVA		--	--	--	--	10
11	RTU-1 LTG/CONV	Gene...	20 A	1			0.18 kVA			1.18 kVA	1	20 A	Motor...	EF 2-3	12
13	EF 2-4	Motor...	20 A	1	1.18 kVA			0.00 kVA			3	20 A	Equip...	REMOTE CONDENSER	14
15	REMOTE CONDENSER	Equip...	20 A	3		0.00 kVA			0.00 kVA		--	--	--	--	16
17	--	--	--	--			0.00 kVA			0.00 kVA	--	--	--	--	18
19	--	--	--	--	0.00 kVA			0.18 kVA			1	20 A	Rece...	REC - AC CONDENSATE PUMP	20
21	REC - AC CONDENSATE PUMP	Rece...	20 A	1		0.18 kVA			0.00 kVA		1	20 A	--	SPARE	22
23	SPARE	--	20 A	1			0.00 kVA			--	1	--	--	USABLE SPACE	24
25	SPARE	--	20 A	1	0.00 kVA			--			1	--	--	USABLE SPACE	26
27	SPARE	--	20 A	1		0.00 kVA			--		1	--	--	USABLE SPACE	28
29	SPARE	--	20 A	1			0.00 kVA			--	1	--	--	USABLE SPACE	30
31	SPARE	--	20 A	1	0.00 kVA			--			1	--	--	USABLE SPACE	32
33	SPARE	--	20 A	1		0.00 kVA			--		1	--	--	USABLE SPACE	34
35	SPARE	--	20 A	1			0.00 kVA			--	1	--	--	USABLE SPACE	36
37	SPARE	--	20 A	1	0.00 kVA			0.00 kVA			3	30 A	--	TVSS	38
39	USABLE SPACE	--	--	1		--			0.00 kVA		--	--	--	--	40
41	USABLE SPACE	--	--	1			--			0.00 kVA	--	--	--	--	42
				Total Load:	8.92 kVA			5.86 kVA		6.07 kVA					
				Total Amps:	75 A			49 A		51 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
General	180 VA	85.00%	153 VA	**Total Conn. Load:** 20.84 kVA
Equipment - Hospital	0 VA	0.00%	0 VA	**Total Est. Demand:** 17.77 kVA
Motor - Hospital	20304 VA	85.00%	17258 VA	**Total Est. Design:** 17.77 kVA
Receptacle - Hospital	360 VA	100.00%	360 VA	**Total Conn. Current:** 58 A
				Total Est. Demand Current: 49 A
				Total Est. Design Current: 49 A

Notes:

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
801 Cherry St. Ste. 500, Fort Worth, TX 76102
817.228.1917
888.781.8441
e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictbomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

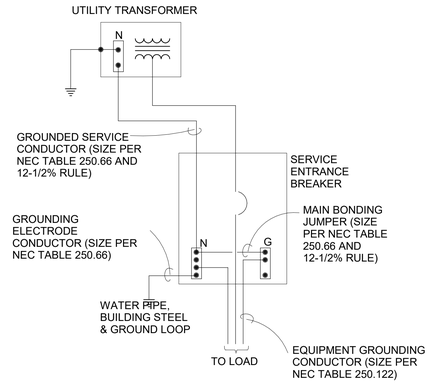
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E6.04

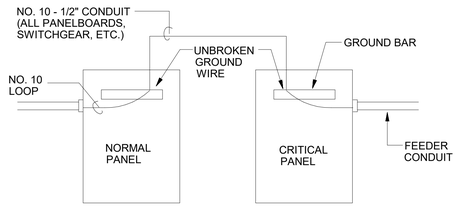
ELECTRICAL - PANEL SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



SERVICE ENTRANCE GROUNDING DETAIL — 1

No Scale

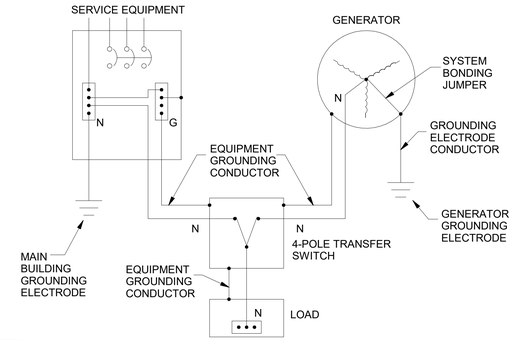


GENERAL NOTES:

1. IN AREAS FOR PATIENT CARE, PROVIDE GROUNDING IN ACCORDANCE WITH NEC 517.13 AND 517.14.
2. THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND ESSENTIAL ELECTRICAL SYSTEM PANELBOARDS SHALL BE BONDED TOGETHER WITH AN INSULATED CONTINUOUS COPPER CONDUCTOR NOT SMALLER THAN NO. 10. THIS APPLIES TO ALL PANELS SIZED PER NEC 250.95 FOR FEEDER OVER 60 AMP. ACCEPTABLE TO HIGH PRESS IN ORDER TO PROVIDE CONTINUOUS LOOP.

TYPICAL EQUIPOTENTAIL GROUND SYSTEM DIAGRAM — 2

No Scale

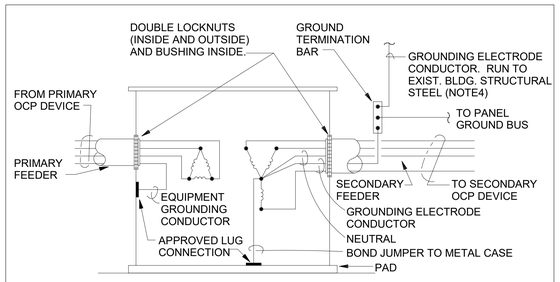


NOTES:

1. SEE RISER DIAGRAM FOR CONDUCTOR SIZES.
2. BOND JUMPER AND GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.66
3. BOND JUMPER AND REQUIRED GROUNDING ELECTRODE CONDUCTOR SHALL BE THE SAME SIZE. IF THE SECONDARY FEEDER CONDUCTORS ARE GREATER THAN 1100MCM COPPER OR 1750MCM ALUMINUM, THE BOND JUMPER SHALL BE INCREASED IN SIZE TO 12.5 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SECONDARY PHASE CONDUCTORS.

GENERATOR GROUNDING DETAIL — 3

No Scale

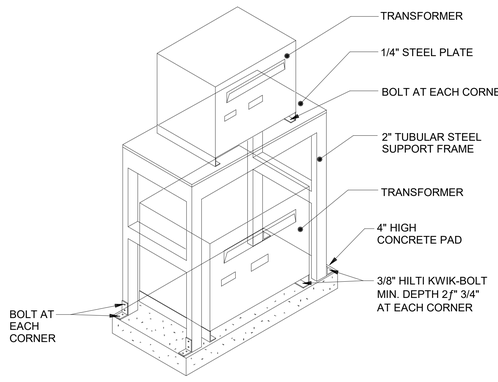


NOTES:

1. DETAIL IS FOR 3-PHASE TRANSFORMERS WITH PRIMARY AND SECONDARY VOLTAGES UNDER 600 VAC.
2. BOND JUMPER AND GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED PER NEC 250.94.
3. BOND JUMPER AND REQUIRED GROUNDING ELECTRODE CONDUCTOR SHALL BE SAME SIZE. IF THE SECONDARY FEEDER CONDUCTORS ARE GREATER THAN 1100MCM COPPER OR 1750MCM ALUMINUM, THE BOND JUMPER SHALL BE INCREASED IN SIZE TO 12.5 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SECONDARY PHASE CONDUCTOR.
4. PROVIDE GROUND TERMINATION BAR AND CONNECT TRANSFORMER SECONDARY GROUND CONDUCTORS.

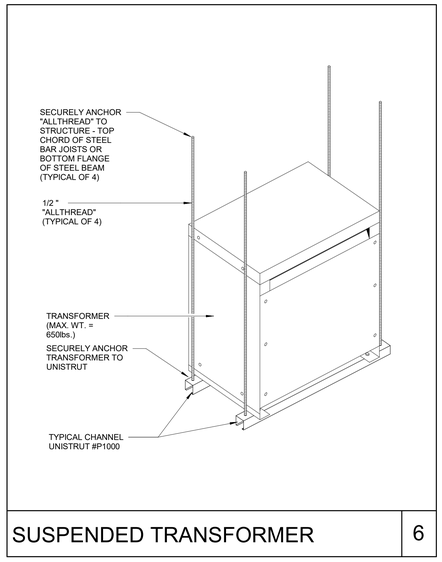
GROUNDING FOR TRANSFORMER — 4

No Scale



TRANSFORMER STACKING DETAIL — 5

No Scale



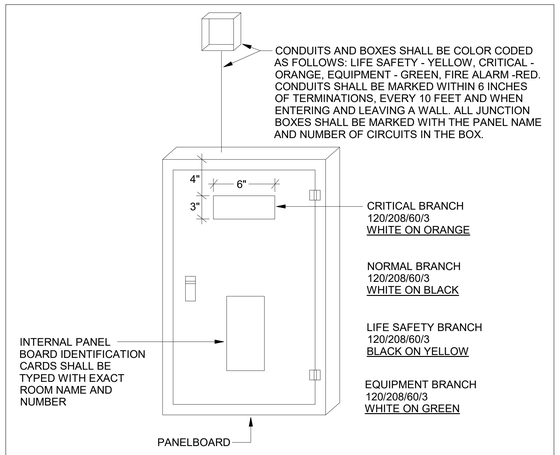
SUSPENDED TRANSFORMER — 6

A FEEDER CONDUCTOR COLOR CODING CHART SHALL BE POSTED ON THE INSIDE OF EACH PANELBOARD DOOR. AN ENGRAVED PLAQUE MAY BE USED OR THE CHART CAN BE INCLUDED ON THE TYPEWRITTEN CIRCUIT DIRECTORY CARD. THE CARD SHALL READ AS APPROPRIATE, EITHER:

120/208Vø3 COLOR CODE		277/480Vø3 COLOR CODE	
PHASE A	BLACK	PHASE A	BROWN
PHASE B	RED	PHASE B	ORANGE
PHASE C	BLUE	PHASE C	YELLOW
NEUTRAL	WHITE	NEUTRAL	GRAY
GROUND	GREEN	GROUND	GREEN

TYPICAL ENGRAVING & COLOR CODING — 7

No Scale

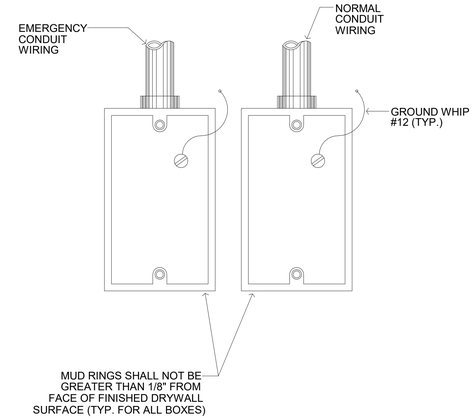


GENERAL NOTES:

1. VERIFY FINAL COLOR CODING AND NAMING CRITERIA WITH THE FACILITY STANDARDS.

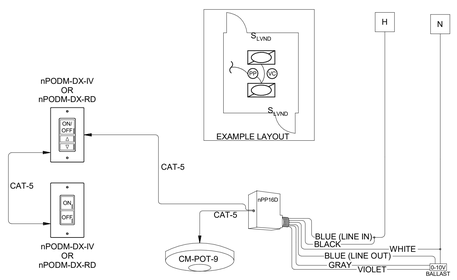
TYPICAL ENGRAVING & COLOR CODING — 8

No Scale



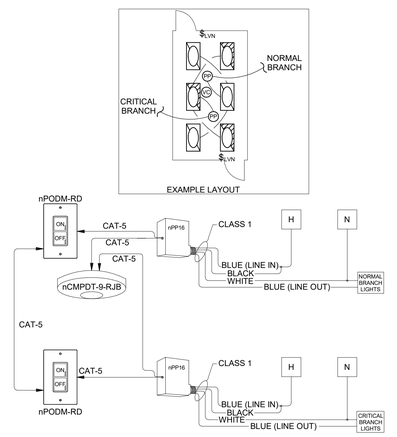
TYPICAL LIGHT SWITCH BOX WITH NORMAL AND CRITICAL SWITCHES — 9

No Scale



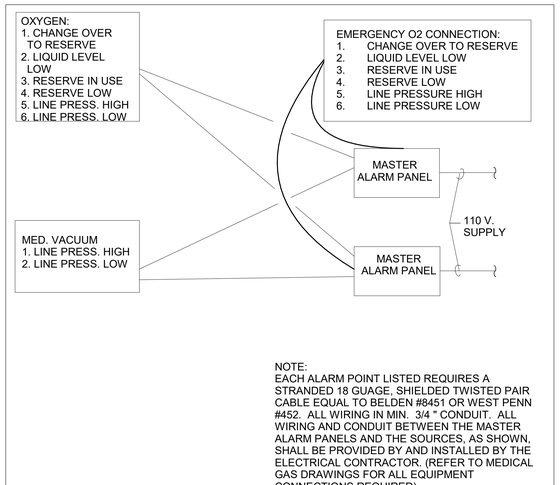
3-WAY SWITCHING - DIMMING TWO LOCATIONS W/ VACANCY SENSOR — 10

No Scale



3-WAY SWITCHING - MULTIPLE BRANCH LOADS W/ VACANCY SENSOR — 11

No Scale



NOTE:
EACH ALARM POINT LISTED REQUIRES A STRANDED 18 GUAGE, SHIELDED TWISTED PAIR CABLE EQUAL TO BELDEN #8451 OR WEST PENN #452. ALL WIRING IN MIN. 3/4 " CONDUIT. ALL WIRING AND CONDUIT BETWEEN THE MASTER ALARM PANELS AND THE SOURCES, AS SHOWN, SHALL BE PROVIDED BY AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (REFER TO MEDICAL GAS DRAWINGS FOR ALL EQUIPMENT CONNECTIONS REQUIRED).

MEDICAL GAS MASTER ALARM PANEL WIRING SCHEMATIC — 12

No Scale

ENVIRONMENTS FOR HEALTH e4h ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E7.01

ELECTRICAL - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

	SYSTEM INPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE APPROPRIATE TROUBLE SIGNAL INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS *	ACTUATE ALL VISIBLE EVACUATION SIGNALS *	DISPLAY ALPHANUMERIC EVACUATION SIGNALS *	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPV. SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RELEASE MAGNETICALLY HELD SMOKE DOORS	UNLOCK SECURITY DOORS	RELEASE ELEVATOR FIRE DOORS	FAN SHUT DOWN	DAMPER CONTROL SHUT DOWN	REMOTELY DISPLAY ACTIVE STATUS	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	SMOKE SENSOR/DETECTOR	●	●						●		●	●	●				●	●		1
2	MANUAL PULL STATION	●	●						●		●	●	●							2
3	HEAT SENSOR/DETECTOR	●	●						●		●	●	●							3
4	DUCT SENSOR/DETECTOR AHU1			●	●				●				●		●					4
5	DUCT SENSOR/DAMPER			●	●				●				●		●					5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12
13	WATERFLOW SWITCH	●	●						●		●	●	●				●	●		13
14	TAMPER SWITCH			●	●				●				●		●					14
15	GENERATOR RUNNING			●	●				●				●		●					15
16	GENERATOR FAULT					●	●		●				●			●				16
17	FIRE ALARM AC POWER FAILURE					●	●						●			●		●		17
18	FIRE ALARM SYSTEM LOW BATTERY					●	●						●			●				18
19	OPEN CIRCUIT OR GROUND FAULT					●	●						●			●				19
20	CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT					●	●						●			●				20
21																				21
22																				22
23																				23
24																				24
25																				25
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	

CONTROL UNIT ANNUNCIATION | NOTIFICATION | FIRE SAFETY CONTROL

	W	X	Y	Z	
1	●	●	●		1
2			●		2
3			●		3
4	●		●		4
5		●	●		5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13			●		13
14			●		14
15			●		15
16			●		16
17			●		17
18			●		18
19			●		19
20			●		20
21					21
22					22
23					23
24					24
25					25
	W	X	Y	Z	

* INITIATED BY SMOKE COMPARTMENT, CONSISTENT WITH NOTE 'G' ON DETAIL '2' ON THIS SHEET.

FIRE ALARM SEQUENCE OF OPERATION

No Scale

1

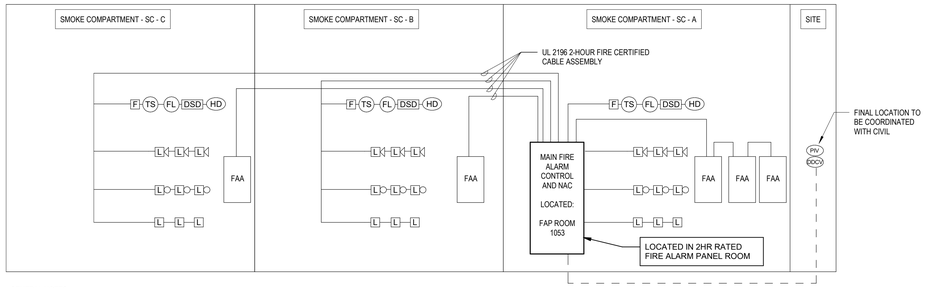
FIRE ALARM SYSTEM NOTES

- The location of the branch circuit disconnecting means shall be identified at all fire alarm control equipment.
- Disconnecting means for fire alarm system components shall be identified with a red marking.
- A duct smoke detector shall be provided within five feet of all fire smoke dampers.
- Duct smoke detectors shall be provided in all HVAC units greater than 2000 CFM.
- Contractor shall refer to the mechanical drawings for drawings and details associated with the shutdown of HVAC equipment.
- Contractor shall provide fire alarm connections to all kitchen hoods as required by the hood assembly. All electrical equipment located under the hood shall be shunt trip at the breaker in the panel serving the equipment via the fire alarm system.
- All electrically locked doors in a required means of egress shall automatically release upon activation of the fire alarm system. Coordinate locations with architectural floor plans and door schedules.
- A weather-proof fire alarm horn/strobe shall be provided outside of the fire sprinkler room.
- Fire alarm contractor shall provide connection to the overhead paging or voice reinforcement system as required for automatic override of those systems in the event of a fire. Coordinate with appropriate vendor for exact integration requirements.

NOTES FOR FIRE ALARM SYSTEM

No Scale

3



GENERAL NOTES:

A. PROVIDE UL 2196 HARDWARE TO TRANSITION FROM UL 2196 LISTED 2-HOUR CABLE ASSEMBLY TO UL 1424 CABLING IN CONDUIT

B. PROVIDE BUILDING MAP AT THE FACP LOCATIONS AND ANNUNCIATOR THAT INDICATES ZONES AND DEVICES.

C. PROVIDE WEATHERPROOF DEVICES WHERE SHOWN OR AS REQUIRED BASED ON THE LOCATION OF THE DEVICE.

D. RECORD AND SHOP DRAWINGS SHALL INDICATE EXACT ROUTING AND LOCATIONS OF ALL DEVICES, CONDUITS (TYPES AND SIZES), CONDUCTORS (TYPES AND SIZES) AND ALL PERTINENT INSTALLATION INFORMATION.

E. USE FINAL ACTUAL ROOM NAMES AND NUMBERS BASED ON THE INSTALLATION OF SIGNAGE AND NOT THE ARCHITECTURAL ROOM NAMES WHEN PROGRAMMING THE FINAL SYSTEM.

F. FIRE ALARM SYSTEM SHALL UTILIZE A PRIVATE OPERATING MODE, DEFEND-IN-PLACE OPERATION CONSISTENT WITH THE FACILITY'S EMERGENCY RESPONSE PLAN.

G. NAC & SLC CIRCUITS SHALL BE GROUPED BY SMOKE COMPARTMENT. THE NOTIFICATION DEVICES IN EACH COMPARTMENT SHALL ONLY BE ACTIVATED WHEN THERE IS AN ALARM WITHIN THAT COMPARTMENT.

H. SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL FOR THE INTENT OF THE ENGINEERS DESIGN IN THE SEALED DOCUMENTS AND SUBMITTED FOR REVIEW BY THIS OFFICE.

I. FIRE ALARM SYSTEM SHALL UTILIZE A PERFORMANCE BASED TECHNOLOGY (CELLULAR/MOBILE) COMMUNICATION METHOD FROM THE PROTECTED PREMISED TO THE THE SUPERVISING ALARM STATION.

FIRE ALARM RISER DIAGRAM

No Scale

2

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

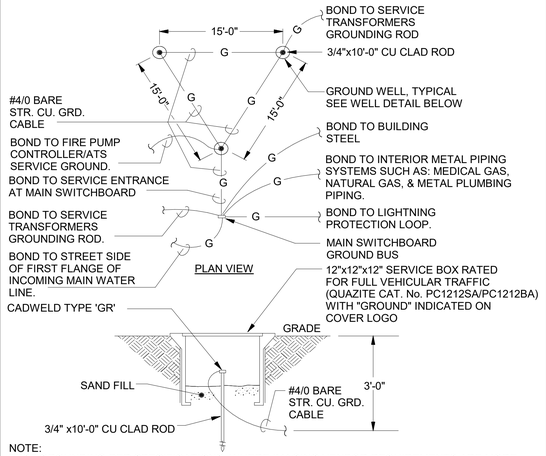
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E7.02

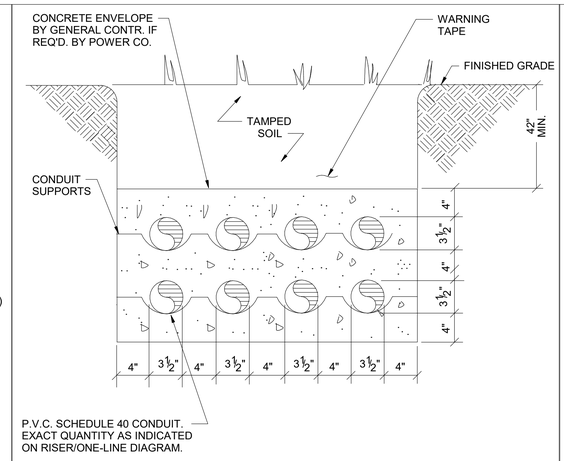
ELECTRICAL - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCHITECTURAL SHEETS

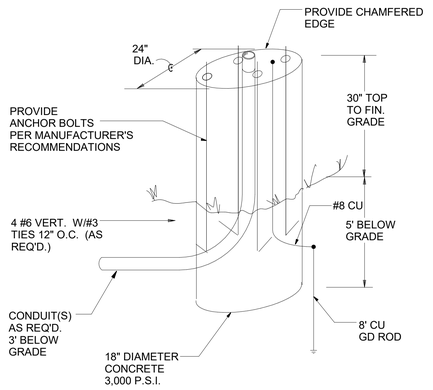


NOTE:
TEST GROUNDING PER SPECIFICATIONS. WHERE IMAGING VENDOR REQUIREMENTS ARE MORE STRINGENT PROVIDE ADDITIONAL RODS OR "XIT" RODS OR EQUAL TO ACHIEVE THE DESIRED RESISTANCE TO GROUND. PROVIDE SIGNAGE TO COMPLY WITH NFPA 70, 700.B (B) REGARDING EMERGENCY SOURCE LOCATION AT OUTDOOR UTILITY YARD.

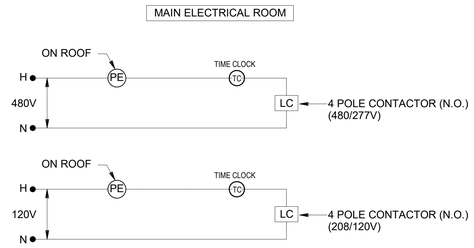
GROUND ROD WELL DETAIL — 1
No Scale



UNDERGROUND FEEDER DETAIL (OUTSIDE OF BUILDING) — 2
No Scale



PARKING LOT LUMINAIRE POLE BASE DETAIL — 3
No Scale

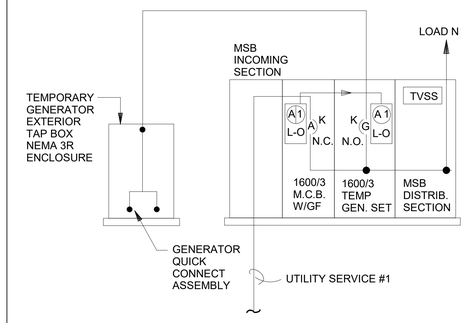


NOTES:

A. TIMECLOCK SHALL COMPLY WITH FLORIDA ENERGY CODE C405.2.7.4

B. REFER TO PANEL SCHEDULES AND FLOOR PLANS FOR CIRCUITS REQUIRED TO BE RUN TROUGH CONTACTOR.

PARKING LOT LIGHTING CONTROLS DETAIL — 4
No Scale

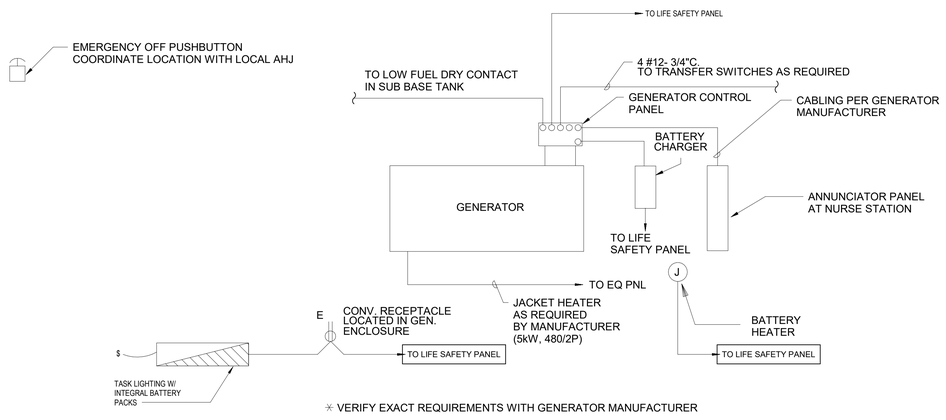


KIRK-KEY INTERLOCKING SCHEME

BREAKER A IS CLOSED TO SUPPLY LOAD N. GENERATOR BREAKER G IS LOCKED OPEN. KEY A-1 IS HELD IN THE L-O INTERLOCK ON BREAKER A. GENERATOR BREAKER G CANNOT BE CLOSED UNLESS BREAKER A IS LOCKED OPEN. GENERATOR BREAKER G INTERLOCK CAN BE UNLOCKED FOR OPERATION WITH A-1 ONLY.
TO TRANSFER LOAD N TO THE GENERATOR, PROCEED AS FOLLOWS:

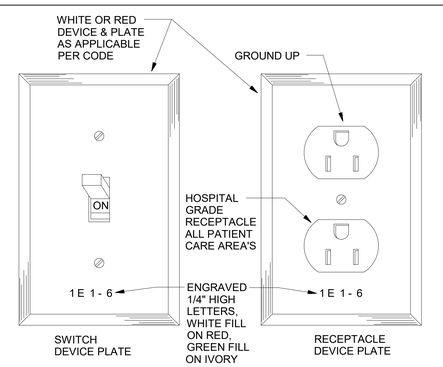
1. OPEN BREAKER A.
2. TURN KEY A-1 IN L-O INTERLOCK ON BREAKER B TO LOCK OPEN. KEY A-1 IS NOW FREE.
3. INSERT KEY A-1 IN L-O INTERLOCK ON GENERATOR BREAKER G AND TURN TO UNLOCK. KEY A-1 IS NOW HELD.
4. CLOSE GENERATOR BREAKER G.

KIRK-KEY INTERLOCKING SCHEME — 5
No Scale



✳ VERIFY EXACT REQUIREMENTS WITH GENERATOR MANUFACTURER

EMERGENCY GENERATOR SYSTEM INTERLOCKING DIAGRAM — 6
No Scale



GLUE ON LETTERS OF ANY TYPE WILL NOT BE ACCEPTABLE

ENGRAVING TYPICAL FOR ALL EMERGENCY AND NORMAL CIRCUITS

DETAIL ENGRAVING AT CRITICAL/NORMAL BRANCH CIRCUITS — 7
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E7.03

ELECTRICAL - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

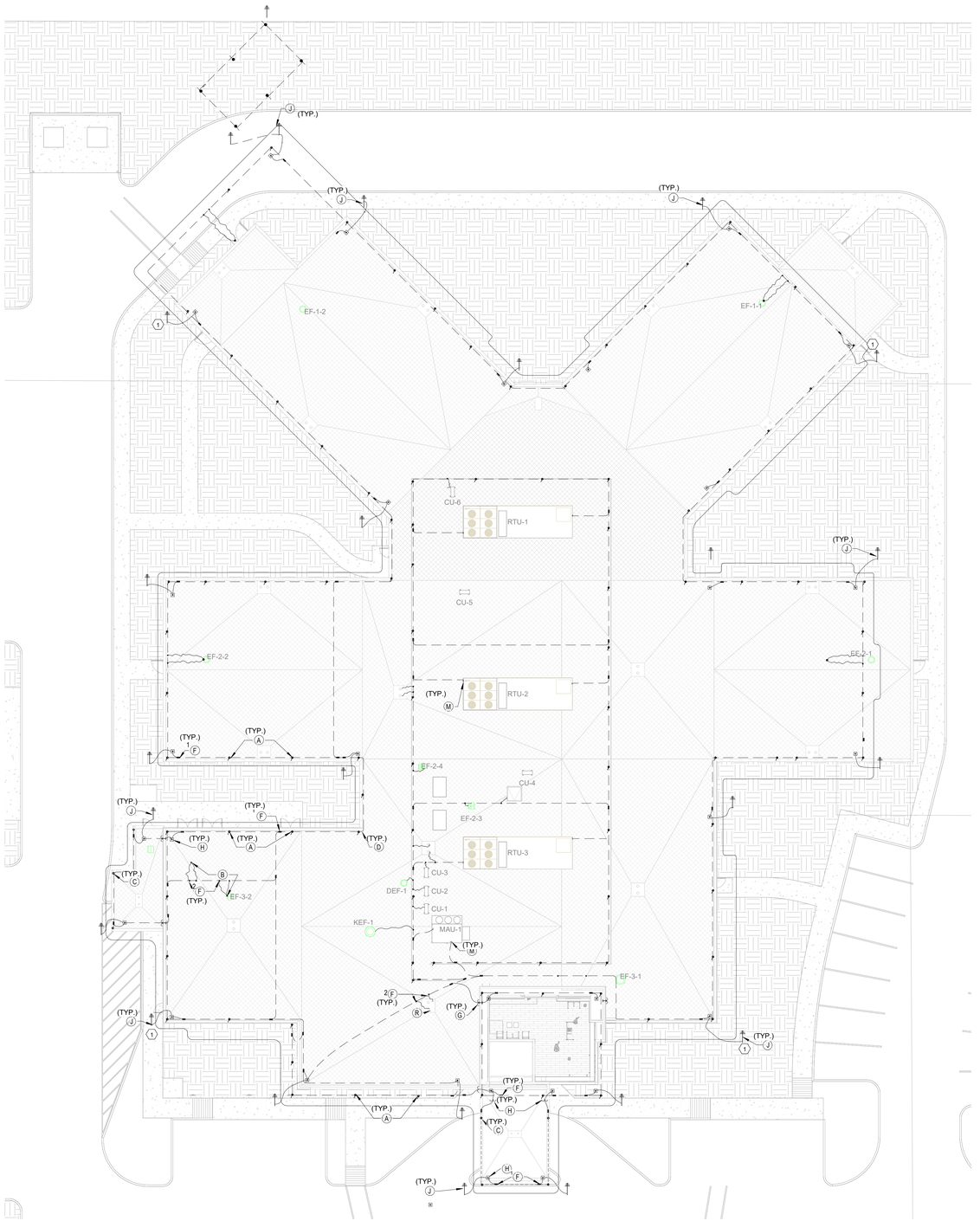
LIGHTNING PROTECTION LEGEND

DETAIL	SYMBOL	DISCRIPTION
		MAIN CONDUCTOR
		COPPER DOWN LEAD CONDUCTOR TO GROUND
		GROUND LOOP
		MID ROOF AIR TERMINAL
A		PARAPET AIR TERMINAL
B		EQUIPMENT AIR TERMINAL
C		TOP MOUNT AIR TERMINAL
D		SEE BEND RADIUS DETAIL
E		EQUIPMENT AIR TERMINAL
F 1		MAIN CONDUCTOR CABLE SPLICER
F 2		SECONDARY CABLE SPLICER
G		EXPOSED DOWN LEAD TO LOWER ROOF
H		THRU ROOF ( ) OR THRU WALL ( ) PENETRATION
J		CONCEALED DOWN LEAD GROUND ROD
K		CONCEALED DOWN LEAD TO LOWER ROOF
L		EXPOSED DOWN LEAD TO THRU WALL CONNECTION TO I BEAM
M		SEE EQUIPMENT HOUSING BOND DETAIL
R		SEE ROOF DRAIN BOND DETAIL

NOTE! SEE SHEETS E8.02,& E803 FOR LIGHTNING PROTECTION DETAILS.

GENERAL NOTE:

A. DETAILS ON THIS SHEET ARE SHOWING ITEMS FOR CLASS I DEVICES WHICH ARE FOR ROOF AREAS BELOW 75 FOOT. ITEMS ABOVE 75 FOOT OF THE ROOF STRUCTURE ARE TO BE SIMILAR BUT MUST BE APPROVED FOR CLASS II STRUCTURES.



NOTES:

1. PROVIDE GROUND ROD WELL AT LOCATIONS NOTED. SEE DETAIL 1 ON SHEET E7.03.

TRUE NORTH

PROJECT NORTH

1 LIGHTNING PROTECTION -ROOF PLAN

E8.01 SCALE: 1/16" = 1'-0"

ENVIRONMENTS FOR HEALTH ARCHITECTURE

e4h

817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

888.781.8441

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT

I.C. Thomasson Associates, Inc.

A Salas O'Brien Company

2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26

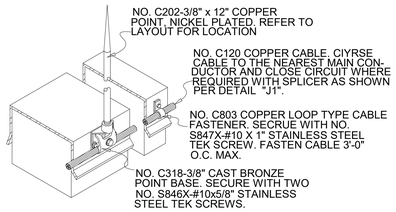
CURRENT:

SHEET TITLE AND NUMBER:

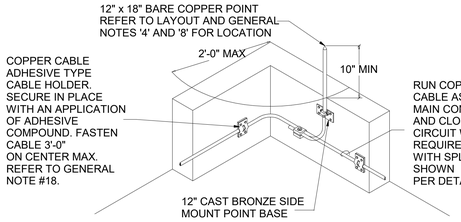
E8.01

LIGHTNING PROTECTION ROOF PLAN

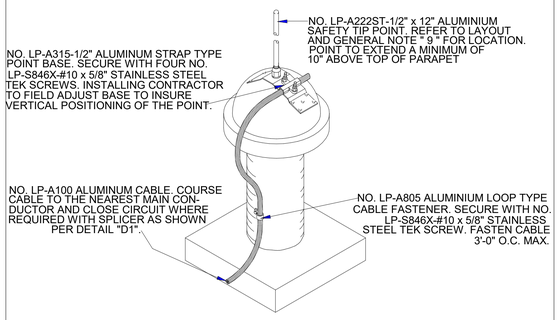
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINALLY AT 30x42



A PARAPET AIR TERMINAL
NO SCALE
1



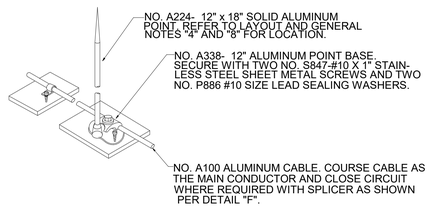
A PARAPET AIR TERMINAL
No Scale
2



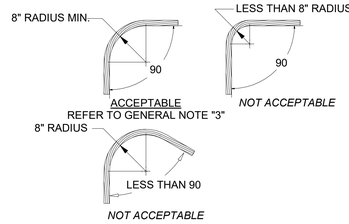
B EQUIPMENT AIR TERMINAL
NO SCALE
3

LIGHTNING PROTECTION SYSTEM
GENERAL INSTALLATION NOTES

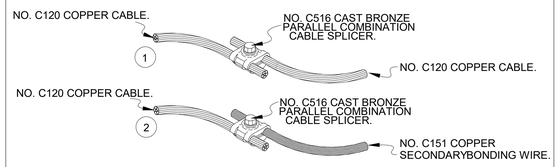
1. THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UNDERWRITERS' LABORATORIES STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS, THE ACTUAL MASTER LABEL WILL BE DELIVERED UPON COMPLETION OF INSTALLATION.
2. METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHINGS, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM.
3. NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
4. CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
5. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
6. CONNECTIONS TO GROUND ROD OR GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
7. ACTUAL JOBSITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
8. AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE.
9. TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND OR WATER PIPE.
10. BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP. BOND AT BOTTOM AND TOP.
11. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
12. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
13. EACH INDIVIDUAL ITEM OF THE LIGHTNING PROTECTION SYSTEM LAYOUT HAS NOT BEEN DESIGNATED BY A DETAIL TYPE. THE ITEMS LABELED TYPICAL ARE TYPICAL FOR SIMILAR AREAS & CONDITIONS WHICH OCCUR THROUGHOUT THE SYSTEM ALL MATERIALS ARE TO BE CLASS I.
14. BOND DOWN CONDUCTORS TO TOP AND BOTTOM OF STRUCTURAL STEEL COLUMNS OR TO REBARS OF CONCRETE COLUMNS WHERE DOWN CONDUCTORS ARE INSTALLED TO COLUMNS.
15. BOND ALL METALLIC SERVICE ENTRANCE CONDUIT AND PIPE TO THE LIGHTNING PROTECTION SYSTEM.
16. BOND NEW SYSTEM TO EXISTING SYSTEM IF APPLICABLE.
17. ALL CATALOG NUMBERS INDICATED ARE THOSE OF A-C LIGHTNING SECURITY, INC.
18. ADHESIVE ATTACHMENT OF LIGHTNING PROTECTION DEVICES SHALL BE BY AN ADHESIVE WHICH FUSES WITH THE ROOF STRUCTURE. ATTACHMENT MUST BE STRUCTURALLY SOUND TO THE POINT WHERE REMOVAL WOULD CAUSE DESTRUCTION OF THE ROOF ASSEMBLY.



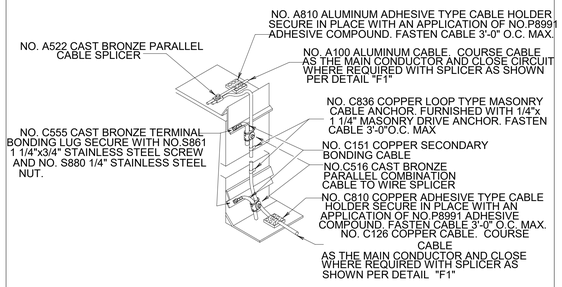
C TOP MOUNT AIR TERMINAL
No Scale
4



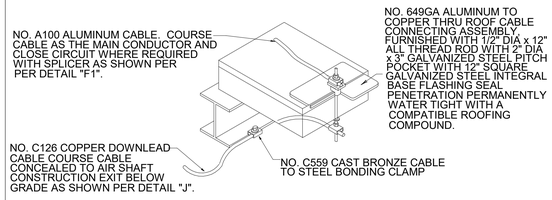
D TYP. CABLE BEND REQUIREMENTS
No Scale
5



F TYP. CABLE SPLICERS
No Scale
6



G EXPOSED DOWNLEAD TO LOWER ROOF
No Scale
7



H TYP. THRU-ROOF/WALL PENETRATION
No Scale
9

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 | 801 Cherry St. Ste. 500, Fort Worth, TX 76102 | 888.781.8441 | e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

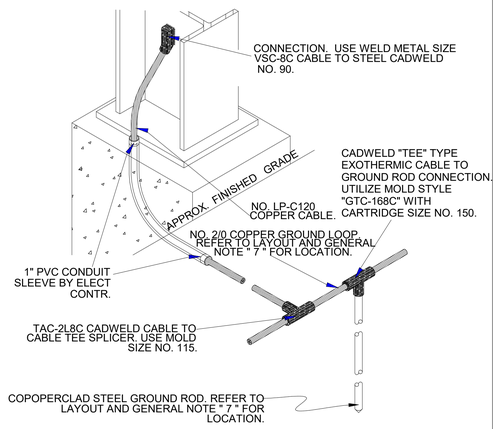
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

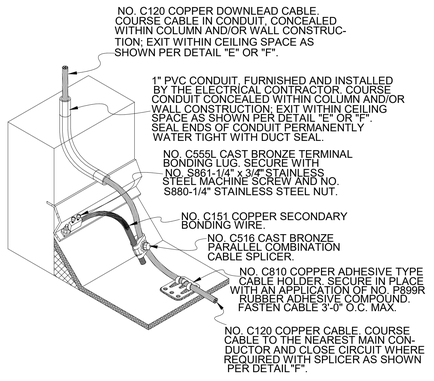
E8.02

LIGHTNING PROTECTION - DETAILS

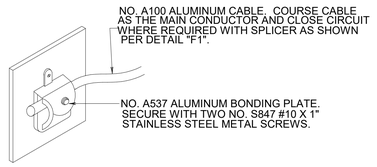
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ANSI D SHEETS



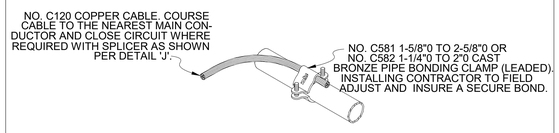
J CLASS 1 STEEL COLUMN CONN TO C/P — 1
No Scale



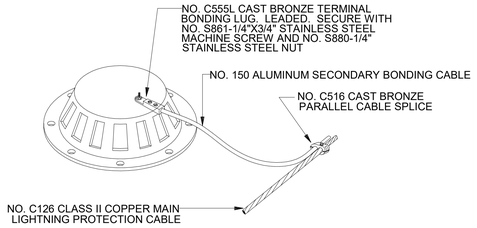
K CONCEALED DOWNLEAD TO LOWER ROOF — 2
No Scale



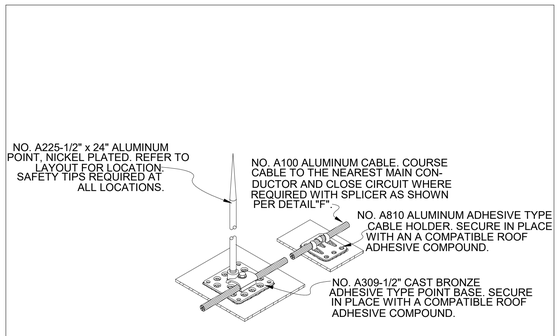
M TYP. EQUIP. HOUSING BOND — 3
No Scale



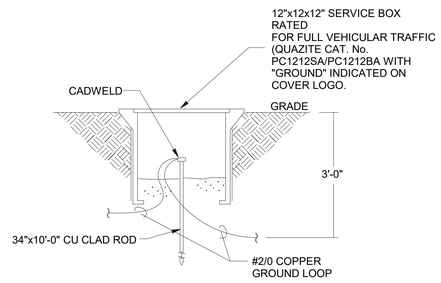
P 4 TYP. WATER PIPE BOND — 4
No Scale



R TYPICAL ROOF DRAIN BOND — 5
No Scale



T MID ROOF AIR TERMINAL — 6
No Scale



GROUND ROD WELL DETAIL — 7
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

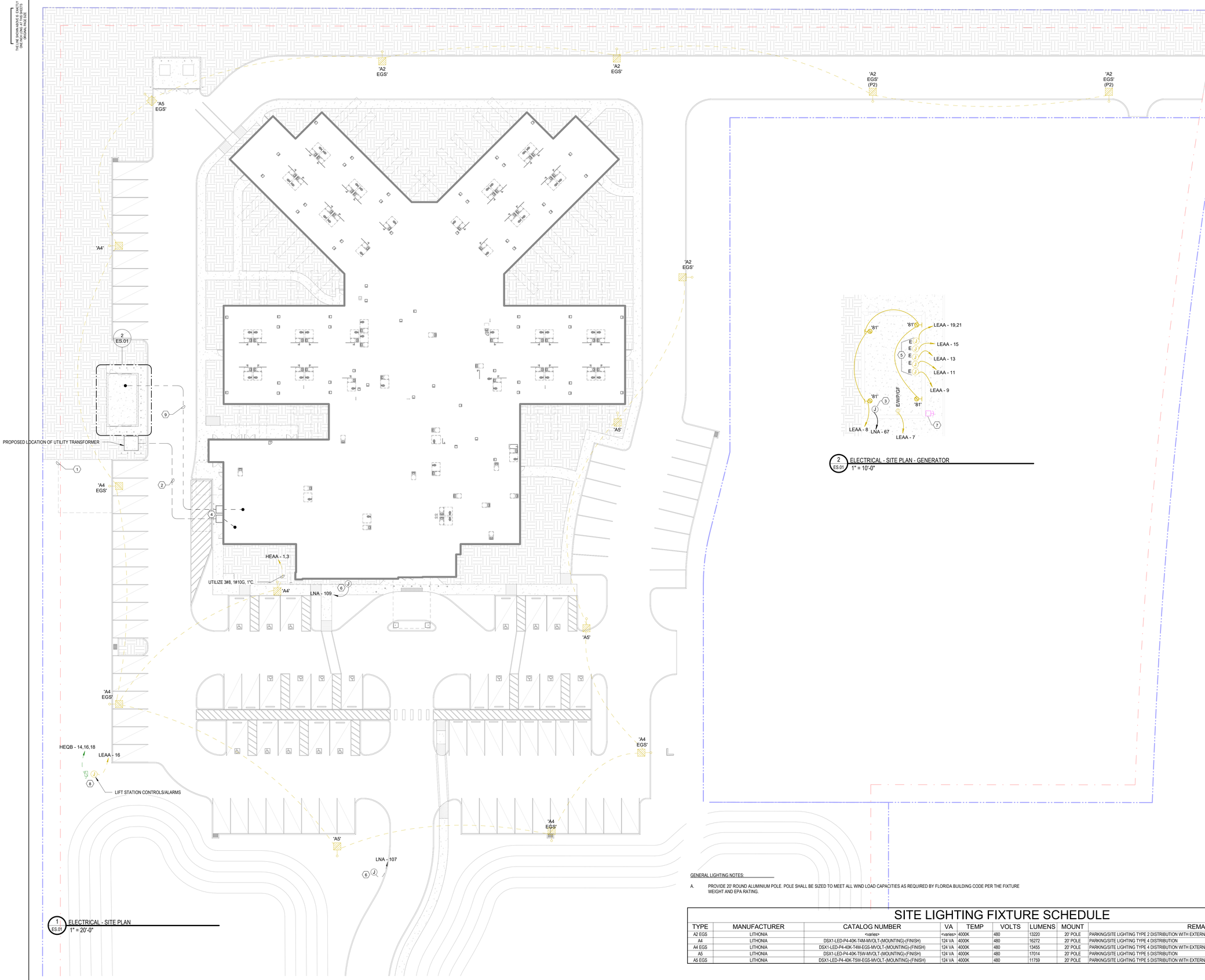
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

E8.03

LIGHTNING PROTECTION - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIENTATION: AS SHOWN



1 ES.01 ELECTRICAL - SITE PLAN
1" = 20'-0"

2 ES.01 ELECTRICAL - SITE PLAN - GENERATOR
1" = 10'-0"

NOTES:

1. APPROXIMATE ROUTE OF PRIMARY SERVICE FEEDER. EXACT ROUTE SHALL BE COORDINATED WITH OTHER TRADES. PROVIDE (2) 4" CONDUITS, COORDINATE WITH UTILITY PROVIDER.
2. APPROXIMATE ROUTE OF SECONDARY SERVICE FEEDER, EXACT ROUTE SHALL BE COORDINATED WITH OTHER TRADES. PROVIDE (5) 3" CONDUITS. REFER TO UNDERGROUND CONDUIT DETAIL ON SHEET E7.03.
3. PROVIDE CONNECTION TO IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
4. APPROXIMATE LOCATION OF GENERATOR QUICK CONNECT STATIONS.
5. REFER TO DETAIL 6 ON SHEET E7.03 FOR CONNECTION DETAILS.
6. PROVIDE CONNECTION TO SIGNAGE AS REQUIRED. REFER TO VENDOR DRAWINGS. UTILIZE (1) 1" CONDUIT FOR MONUMENT SIGN AND (1) 3/4" CONDUIT FOR BUILDING MOUNTED SIGN. PROVIDE PHOTOCELLS FOR CONTROL OF EACH SIGN.
7. APPROXIMATE LOCATION OF GENERATOR EMERGENCY PUSH BUTTON.
8. APPROXIMATE LOCATION OF LIFT STATION. COORDINATE EXACT REQUIREMENTS/LOCATION WITH CIVIL DRAWINGS PRIOR TO ROUGH-IN. UTILIZE 480V/3P/60A/NF & 3#8, 1#10G, 1"C.
9. APPROXIMATE ROUTE OF EMERGENCY SERVICE FEEDER, EXACT ROUTE SHALL BE COORDINATED WITH OTHER TRADES. PROVIDE (2) 3" CONDUITS.

GENERAL LIGHTING NOTES:

A. PROVIDE 20' ROUND ALUMINIUM POLE. POLE SHALL BE SIZED TO MEET ALL WIND LOAD CAPACITIES AS REQUIRED BY FLORIDA BUILDING CODE PER THE FIXTURE WEIGHT AND EPA RATING.

SITE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VA	TEMP	VOLTS	LUMENS	MOUNT	REMARKS
A2 EGS	LITHONIA	<varies>	<varies>	4000K	480	13220	20' POLE	PARKING/SITE LIGHTING TYPE 2 DISTRIBUTION WITH EXTERNAL GLARE SHIELD
A4	LITHONIA	DSX1-LED-P4-40K-T4M-MVOLT-(MOUNTING)-(FINISH)	124 VA	4000K	480	16272	20' POLE	PARKING/SITE LIGHTING TYPE 4 DISTRIBUTION
A4 EGS	LITHONIA	DSX1-LED-P4-40K-T4M-EGS-MVOLT-(MOUNTING)-(FINISH)	124 VA	4000K	480	13455	20' POLE	PARKING/SITE LIGHTING TYPE 4 DISTRIBUTION WITH EXTERNAL GLARE SHIELD
A5	LITHONIA	DSX1-LED-P4-40K-T5W-MVOLT-(MOUNTING)-(FINISH)	124 VA	4000K	480	17014	20' POLE	PARKING/SITE LIGHTING TYPE 5 DISTRIBUTION
A5 EGS	LITHONIA	DSX1-LED-P4-40K-T5W-EGS-MVOLT-(MOUNTING)-(FINISH)	124 VA	4000K	480	11759	20' POLE	PARKING/SITE LIGHTING TYPE 5 DISTRIBUTION WITH EXTERNAL GLARE SHIELD

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102
893.781.8441 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

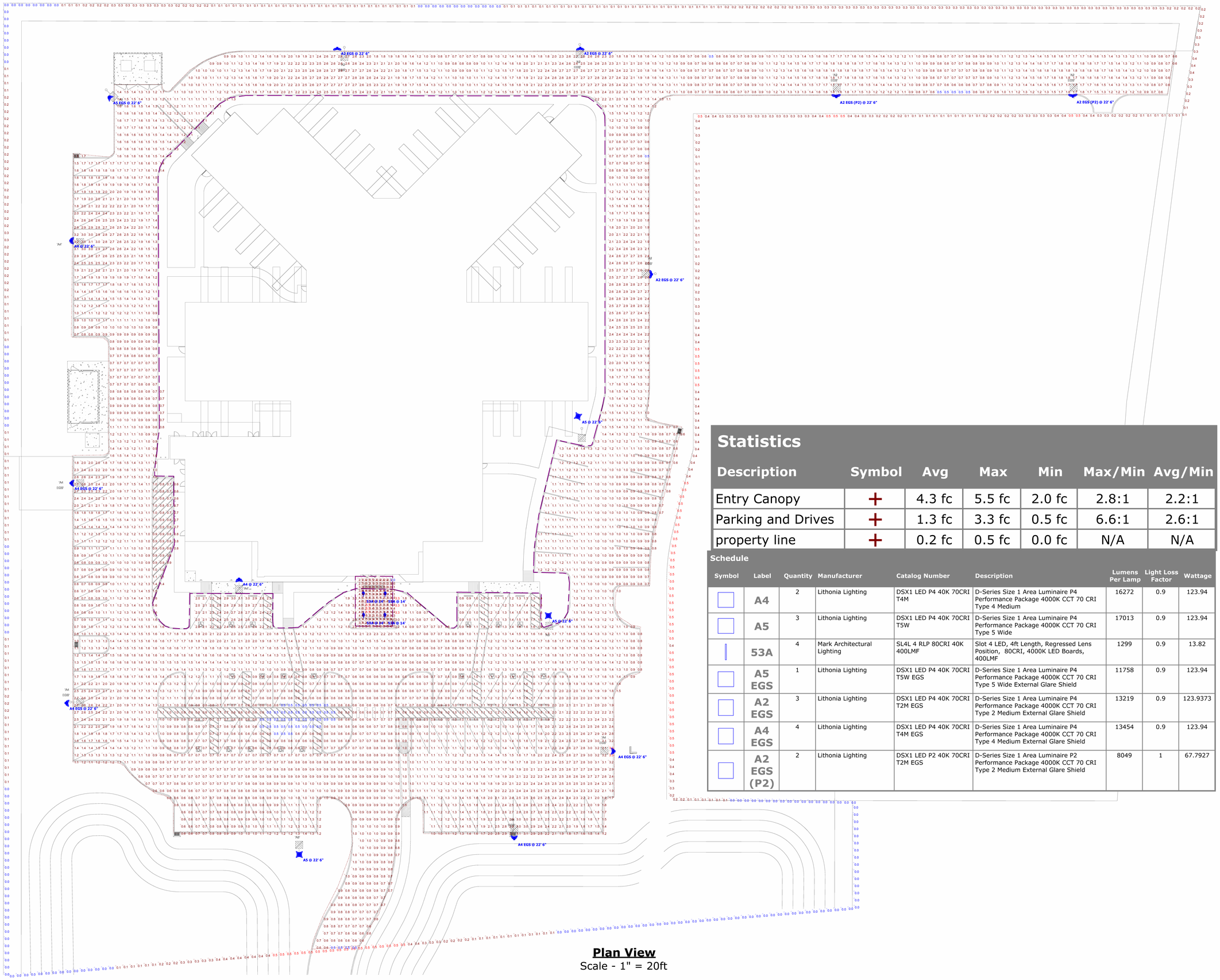
ORIG SUBMISSION: 02/13/26

CURRENT:

SHEET TITLE AND NUMBER:

ES.01

SITE PLAN



Plan View
Scale - 1" = 20ft

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Entry Canopy	+	4.3 fc	5.5 fc	2.0 fc	2.8:1	2.2:1
Parking and Drives	+	1.3 fc	3.3 fc	0.5 fc	6.6:1	2.6:1
property line	+	0.2 fc	0.5 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lumens Per Lamp	Light Loss Factor	Wattage
	A4	2	Lithonia Lighting	DSX1 LED P4 40K 70CRI T4M	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 4 Medium	16272	0.9	123.94
	A5	3	Lithonia Lighting	DSX1 LED P4 40K 70CRI T5W	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide	17013	0.9	123.94
	53A	4	Mark Architectural Lighting	SL4L 4 RLP 80CRI 40K 400LMF	Slot 4 LED, 4ft Length, Regressed Lens Position, 80CRI, 4000K LED Boards, 400LMF	1299	0.9	13.82
	A5 EGS	1	Lithonia Lighting	DSX1 LED P4 40K 70CRI T5W EGS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 5 Wide External Glare Shield	11758	0.9	123.94
	A2 EGS	3	Lithonia Lighting	DSX1 LED P4 40K 70CRI T2M EGS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 2 Medium External Glare Shield	13219	0.9	123.9373
	A4 EGS	4	Lithonia Lighting	DSX1 LED P4 40K 70CRI T4M EGS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Type 4 Medium External Glare Shield	13454	0.9	123.94
	A2 EGS (P2)	2	Lithonia Lighting	DSX1 LED P2 40K 70CRI T2M EGS	D-Series Size 1 Area Luminaire P2 Performance Package 4000K CCT 70 CRI Type 2 Medium External Glare Shield	8049	1	67.7927

e4h ENVIRONMENTS FOR HEALTH ARCHITECTURE
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

ES.02

SITE PLAN PHOTOMETRICS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH E SHEETS

STRUCTURED CABLE LEGEND ★			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
W	WALL MOUNT TELEPHONE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46"
N	TELECOM OUTLET N= NUMBER OF CAT 6 CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	18"
N	COUNTER HEIGHT TELECOM OUTLET N= NUMBER OF CAT 6 CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	6" ABOVE COUNTER UON
N	TELECOM FLOORBOX OUTLET N= NUMBER OF CAT 6 CABLES	SEE ELECTRICAL ROUGH-IN	FLOOR
N	CEILING TELECOMMUNICATIONS OUTLET, N = NUMBER OF CAT 6 CABLES	SINGLE PORT SURFACE MOUNT BOX	CEILING
AV	AV OUTLET, ROUGH-IN ONLY, 1-1/4" CONDUIT STUBBED UP TO ACCESSIBLE CEILING	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS SPECIFIED
POS	POINT OF SALE OUTLET, 3 CAT 6 CABLES	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	18"
	WIRELESS ACCESS POINT, 1 CAT 6 CABLE	SINGLE PORT SURFACE MOUNT BOX	CEILING
FSD-1	FLAT SCREEN DISPLAY, 2 CAT 6 CABLE	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING ★★	72" AFF U.O.N.
FSD-2	FLAT SCREEN DISPLAY, 2 CAT 6 CABLE AND ONE HDMI CABLE TO AV SOURCE IN ROOM.	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING ★★	72" AFF U.O.N.

★ ONE (1) 1" CONDUIT STUBBED TO ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
★★ TWO (2) 1 1/4" CONDUITS STUBBED TO ACCESSIBLE CEILING.

ACCESS CONTROL LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
CR	CARD READER	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46"
DC	DOOR CONTACT	N/A	TOP OF DOOR
J	ACCESS CONTROL JUNCTION BOX	6" X 6" SQUARE JUNCTION BOX	ABOVE DOOR SECURED SIDE
REX	REQUEST TO EXIT	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46"
CCTV	CCTV EQUIPMENT	RACK MOUNT	CONFIRM LOCATION WITH IT DEPARTMENT
MON	CCTV MONITOR	WALL MOUNT	60"
C	FIXED CCTV CAMERA - CAT 6 CABLE	SINGLE PORT SURFACE MOUNT BOX	CEILING
	3-SENSOR IP CCTV CAMERA - CAT 6 CABLE	SINGLE PORT SURFACE MOUNT BOX	CEILING
	4-SENSOR IP CCTV CAMERA - CAT 6 CABLE	SINGLE PORT SURFACE MOUNT BOX	CEILING
KP	KEYPAD	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46"
DB	DURESS BUTTON, WIRELESS	N/A	UNDER COUNTER / DESK
ID V	INTERCOM DESK UNIT WITH VIDEO	PROVIDED BY INTERCOM CONT.	COUNTER / DESK
IF V	INTERCOM FLUSH MOUNT UNIT WITH VIDEO	PROVIDED BY INTERCOM CONT.	46"

JERON NURSE CALL LEGEND			
SYMBOL	DESCRIPTION	BACKBOX	MOUNTING HEIGHT
NM	7065 TOUCHSCREEN NURSE CONSOLE WITH 7969 RECEPTACLE JACK	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	COUNTER/DESK
D	DUTY STATION/STAFF STATION - PART # 7117	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46" A.F.F.
RK	37-PIN SIDE-COM BED CONNECTOR PART # 9805	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	REFER TO ARCH A6 DRAWINGS
SP	SINGLE PATIENT STATION PART # 7123	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	REFER TO ARCH A6 DRAWINGS
Z	LAMP ZONE LIGHT PART #7071	4 11/16" SQ. 2-1/8" DEEP 2-GANG RING, RACO 257 W/818 OR EQUIVALENT	CEILING
D	LAMP CORRIDOR LIGHT PART #7155 AND #7044	4 11/16" SQ. 2-1/8" DEEP 2-GANG RING, RACO 257 W/818 OR EQUIVALENT	CEILING
EP	EMERGENCY PULL CORD STATION PART # 7058	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	REFER TO ARCH G0.05 SHEET
EP W	EMERGENCY PULL CORD / BATH - SHOWER PART # 7058-W	4 X 4 SQ. SHALLOW BOX 1-GANG RING	REFER TO ARCH G0.05 SHEET
2J	DUAL AUXILIARY JACK, SUPERVISED, PROVIDE DUMMY PLUGS, #7042	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46" A.F.F.
CB	CODE BLUE STATION, EMERGENCY BUTTON PART # 7031-B	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	REFER TO ARCH A6 DRAWINGS
SE	STAFF EMERGENCY BUTTON	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	46" A.F.F.
NCT	NURSE CALL TERMINAL CABINET	SURFACE OR FLUSH MOUNTABLE	54"

TELECOMMUNICATIONS PATHWAY LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LADDER RACK - SEE DETAILS DENOTED ON T9 SHEETS	ABOVE RACKS
J J J	J- HOOK PATHWAY - SPACE J-HOOKS AT INTERVALS NO GREATER THAN 5'	ABOVE CEILING
	STEEL SLEEVE, SIZED FOR THE NUMBER OF CABLES PLUS 50% GROWTH, AND NOT TO EXCEED 40% INITIAL FILL RATIO PER INDUSTRY STANDARDS	ABOVE CEILING

INTERCOM / PUBLIC ADDRESS LEGEND			
SYMBOL	DESCRIPTION	BACK BOX	MOUNTING HEIGHT
S	OVERHEAD SPEAKER - GRANDSTREAM GSC3506 V2	N/A	CEILING
S	PAGING HORN SPEAKER	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	AS NOTED
V	VOLUME CONTROL	4 X 4 SQ. 2-1/8" DEEP 1-GANG RING	48"
AMP	PAGING AMPLIFIER - 100 AMP	SURFACE OR FLUSH MOUNTABLE	54"

GENERAL NOTES:

A. ALL LOW VOLTAGE DEVICE LOCATIONS, AS DEPICTED IN THE DRAWINGS, ARE DIAGRAMMATIC IN NATURE, EXCEPT WHERE SPECIFICALLY DIMENSIONED OR DETAILED. THE SYMBOLS INDICATE THE GENERAL ARRANGEMENT OF THE WORK. OUTLETS SHALL BE PLACED WITHIN 3' OF A POWER OUTLET AND ON THE SAME WALL.

B. ALL MOUNTING HEIGHTS GIVEN IN THE LEGEND, SCHEDULES, PLANS AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

C. THE GENERAL NOTES ON THIS SHEET APPLY TO ALL THE "T" SERIES SHEETS. ARCHITECTURAL ELEVATIONS SHALL DETERMINE DEVICE AND ROUGH-IN LOCATIONS.

D. EACH CONTRACTOR SHALL BE OFFERED THE OPPORTUNITY TO CONDUCT A SITE SURVEY OF THE PROJECT PRIOR TO BIDDING, TO ASSESS EXISTING CONDITIONS.

E. THE CONTRACTOR SHALL INSTALL HIS WORK TO CONFORM AS NEARLY AS POSSIBLE TO THE LOCATIONS AND ARRANGEMENTS SHOWN, WITH ONLY SUCH MINOR ADJUSTMENTS AS NECESSARY.

F. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND OWNER-VENDORS TO AVOID INTERFERENCES.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELECOMMUNICATION DRAWINGS PRIOR TO ROUGH-IN FOR EXACT LOCATION OF ALL COMMUNICATION DEVICES.

H. CONTRACTOR SHALL CARRY AN ALLOWANCE FOR AN EMERGENCY RESPONDER RADIO COVERAGE (ERRC) SITE SURVEY AND ERRC IMPLEMENTATION AFTER CONSTRUCTION AS MAY BE REQUIRED.

I. PENETRATIONS SHALL BE PROVIDED/SEALED IN SUCH A MANNER TO BE U. L. RATED PENETRATION ASSEMBLIES WITH APPROVED FIRESTOP.

J. CONTRACTOR SHALL INSTALL SLEEVES OF ADEQUATE SIZE AND QUANTITY. SLEEVES SHALL NOT EXCEED 40% FILL RATIOS.

K. J-HOOK PATHWAYS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL ROUTE CABLING WITH 90 DEGREE TURNS AND AS STRAIGHT AS POSSIBLE.

L. ALL J-HOOK INSTALLATIONS SHALL BE BETWEEN 48" – 60" APART. INSTALLATIONS VARY FROM WALL TO DECK SUPPORTED APPLICATIONS. CONTRACTOR SHALL INSTALL PER THE MANUFACTURERS RECOMMENDED INSTALLATION OR INDUSTRY PRACTICES.

M. AT EACH WIRELESS ACCESS POINT. CABLING CONTRACTOR SHALL LEAVE 25' OF SLACK CABLE NEATLY COILED IN CEILING FOR FUTURE RELOCATION OF CABLING. CABLES SHALL TERMINATE PER PROJECT SPECIFICATIONS.

N. IF A CONFLICT EXISTS BETWEEN APPLICABLE DOCUMENTS, THE ARCHITECTURAL ELEVATIONS SHALL DRIVE ANY DEVICE HEIGHT AND LOCATION. ALL OUTLETS AND DEVICES SHALL BE COORDINATES WITH THE ADJACENT ELECTRICAL OUTLET.

O. IF A CONFLICT EXISTS BETWEEN STANDARDS, GUIDELINES, OR CODE ENFORCEABLE REQUIREMENTS, THE MORE STRIGENT SHALL APPLY.

P. CONTRACTOR SHALL REVIEW THE DOOR HARDWARE SPECIFICATION, 087100, AND APPROVED DOOR HARDWARE SUBMITTALS, TO VERIFY THAT THE SPECIFIED POWER SUPPLIES AT EACH ACCESS CONTROLLED DOOR ARE PROVIDED BY THE DIVISION 08 DOOR HARDWARE CONTRACTOR WHERE APPLICABLE.

Q. FOR EVERY PORTAL (DOOR) WITH EITHER A CARD READER, A DOOR POSITION SWITCH, OR AN INTERCOM, PROVIDE A MINIMUM 6"X 6" X 4" COVERED STEEL JUNCTION BOX ABOVE THE NEAREST ACCESSIBLE CEILING ON THE SECURE SIDE OF THE PORTAL. EXCEPTION: PORTALS WITH WIRELESS CARD READERS DO NOT REQUIRE THIS.

R. ALL WALL MOUNTED ACCESS CONTROL DEVICES REQUIRE A MINIMUM ¾" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING ON THE SECURE (NON-CARD READER) SIDE, UNLESS OTHERWISE NOTED.

S. DOOR POSITION SWITCHES - PROVIDE A FLUSH MOUNTED, COLOR MATCHED, SINGLE-POLE, DUAL THROW DOOR POSITION SWITCH IN THE DOOR FRAME FOR EVERY LEAF OF EVERY DOOR WITH ACCESS CONTROL, FOR DOOR POSITION MONITORING. AT EACH DOOR POSITION SWITCH, PROVIDE END OF LINE RESISTORS CONFIGURED WITH THE ACCESS CONTROL SYSTEM FOR 4-STATE SUPERVISION. CONTRACTOR SHALL CAREFULLY COORDINATE THE ACCESS CONTROL CONTRACTOR AND THE DOOR HARDWARE CONTRACTOR SUBMITTALS TO ENSURE COMPLETE, BUT UNDUPLICATED COMPLIANCE WITH THIS REQUIREMENT.

T. MOTION DETECTOR REQUEST-TO-EXIT (WITH ELECTRIC STRIKES) - FOR DOORS WITH ELECTRIC STRIKES, CONTRACTOR TO PROVIDE A PASSIVE INFRARED (PIR) MOTION SENSITIVE REQUEST TO EXIT DEVICE ABOVE THE SECURE SIDE OF THE DOOR. THE PIR SHALL HAVE DOUBLE POLE, DOUBLE THROW OUTPUTS. ONLY THE NORMALLY OPEN CONTACTS OF ONE OUTPUTS SHALL BE WIRED TO PROVIDE A REQUEST TO EXIT CLOSURE SIGNAL TO THE ACCESS CONTROL DOOR CONTROLLER WHEN MOTION IS DETECTED BY THE PIR. WIRE LOCK POWER SHALL NOT BE INTERRUPTED WHEN MOTION IS DETECTED BY THE PIR.

U. ADJUST THE MOTION DETECTION FIELD OF VIEW (AS SMALL AS PRACTICAL), AND SENSITIVITY (AS LOW AS PRACTICAL) SUCH THAT THE DOOR FUNCTIONS APPROPRIATELY.

V. TV VENDOR SHALL PROVIDE TV'S AND MOUNTS, AND SHALL PROVIDE THE CROSS ROOM CABLE FOR THE NURSE CALL CONNECTION TO THE TV.

W. CONTRACTOR SHALL PROVIDE BLOCKING IN THE WALL AT TV AND MONITOR LOCATIONS.

CAMERA SCHEDULE					
CAMERA...	SHEET	ROOM	FIELD OF VIEW	MOUNTING	CAMERA TYPE
C2A-01	T2.01a	CORRIDOR 1110	CORRIDOR	CEILING	FIXED DOME
C2A-02	T2.01a	CORRIDOR 1064	CORRIDOR	CEILING	FIXED DOME
C2A-03	T2.01a	CORRIDOR 1080	CORRIDOR	CEILING	FIXED DOME
C2A-04	T2.01a	CORRIDOR 1062	CORRIDOR	CEILING	FIXED DOME
C2A-05	T2.01a	CORRIDOR 1080	CORRIDOR	CEILING	FIXED DOME
C2A-06	T2.01a	OUTSIDE, PLAN WEST SIDE	ALCOVE AND DOORS	WALL MOUNT, 10' AFG	FIXED DOME
C2A-07	T2.01a	CORRIDOR 1019	CORRIDOR	CEILING	FIXED DOME
C2A-08	T2.01a	CORRIDOR 1047	CORRIDOR	CEILING	FIXED DOME
C2A-09	T2.01a	OUTSIDE, PLAN WEST SIDE	UTILITY AND ENTRANCE DOORS	WALL MOUNT, 10' AFG	FIXED DOME
C2A-10	T2.01a	LOBBY 1003	LOBBY/ENTRANCE	CEILING	FIXED DOME
C2A-11	T2.01a	OUTSIDE, PLAN SOUTH SIDE	MAIN ENTRANCE	WALL MOUNT, 10' AFG	FIXED DOME
C2A-12	T2.01a	OUTSIDE, PLAN EAST SIDE	DOOR AND EXTERIOR	WALL MOUNT, 10' AFG	FIXED DOME
C2A-13	T2.01a	ENTRY 1001	ENTRANCE	CEILING	FIXED DOME
C2A-14	T2.01a	MEDS 1063	ENTRANCE	CEILING	FIXED DOME
C2A-15	T2.01a	PHARMACY 1066	ENTRANCE	CEILING	FIXED DOME
C2B-01	T2.01b	CORRIDOR 1120	CORRIDOR	CEILING	FIXED DOME
C2B-02	T2.01b	CORRIDOR 1127	CORRIDOR	CEILING	FIXED DOME
C2B-04	T2.01b	CORRIDOR 1160	CORRIDOR	CEILING	FIXED DOME
C2B-05	T2.01b	OUTSIDE DAY SPACE 1153	ENTRANCE TO DAY SPACE	WALL MOUNT, 10' AFG	FIXED DOME
C2B-06	T2.01b	DAY SPACE 1154	DAY SPACE	CEILING	FIXED DOME
C2B-07	T2.01b	OUTSIDE DAY SPACE 1154	ENTRANCE TO DAY SPACE	WALL MOUNT, 10' AFG	FIXED DOME
C2B-08	T2.01b	OUTSIDE PLAN EAST SIDE	DOOR AND EXTERIOR	WALL MOUNT, 10' AFG	FIXED DOME

ACCESS CONTROL SCHEDULE			
DOOR NUMBER	SHEET NUMBER	ROOM	HARDWARE SET
1001A	T2.01a	ENTRY 1001	CR, DC, VIDEO
1002	T2.01a	WHEEL CHAIR 1002	CR
1005	T2.01a	ADMIN 1005	CR
1052	T2.01a	ELECT 1052	DC ONLY
1051A	T2.01a	EMER ELECT 1051	DC ONLY
1047	T2.01a	CORRIDOR 1047	CR, DC, VIDEO
1054A	T2.01a	MECH 1054	DC ONLY, 2 DOORS
1046	T2.01a	CORRIDOR 1046	DC ONLY, 2 DOORS
1048	T2.01a	CENTRAL STORAGE 1048	CR, DC
1041	T2.01a	CORRIDOR 1041	CR
1044	T2.01a	SOILED HOLD 1044	CR
1020A	T2.01a	GYM 1020	DC, CR
1021	T2.01a	SOILED HOLD 1021	CR
1024	T2.01a	PT STOR 1024	CR
1066	T2.01a	PHARMACY 1066	CR, DC
1063	T2.01a	MEDS 1063	CR, DC
1042	T2.01a	MAINTENANCE 1042	CR
1061	T2.01a	TSER 1061	CR, DC
1075	T2.01a	LAB 1075	KP
1110	T2.01a	CORRIDOR 1110	DC ONLY
1080	T2.01a	CORRIDOR 1080	DC, CR
1022	T2.01a	ADL 1022	CR
1105	T2.01b	MEDS RECORD 1105	CR
1118B	T2.01b	PAT ROOM 1118 AND 1117	CR ON BOTH SIDES
1104	T2.01b	DIALYSIS STORAGE 1104	CR
1129	T2.01b	CLEAN WORKROOM 1129	CR
1128A	T2.01b	SOILED WORKROOM 1128	CR
1128B	T2.01b	SOILED WORKROOM 1128	CR, DC
1094	T2.01b	TDR 1094	CR
1122	T2.01b	EQUIP STORAGE 1122	CR
1152B	T2.01b	PAT ROOM 1152 AND 1151	CR ON BOTH SIDES
1153	T2.01b	DAY SPACE 1153	DC ONLY
1140	T2.01b	DAY SPACE 1154	CR, DC
1160	T2.01b	CORRIDOR 1160	DC ONLY
1190B	T2.01b	PAT ROOM 1190 AND 1189	CR ON BOTH SIDES
1006A	T2.01b	CHAPEL 1004	CR
1121	T2.01b	STORAGE 1121	CR
1090B	T2.01b	PAT ROOM	CR ON BOTH SIDES
1170B	T2.01b	PAT ROOM	CR ON BOTH SIDES
CR = CARD READER | DC = DOOR CONTACT | KP = KEYPAD			

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictbomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH

2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

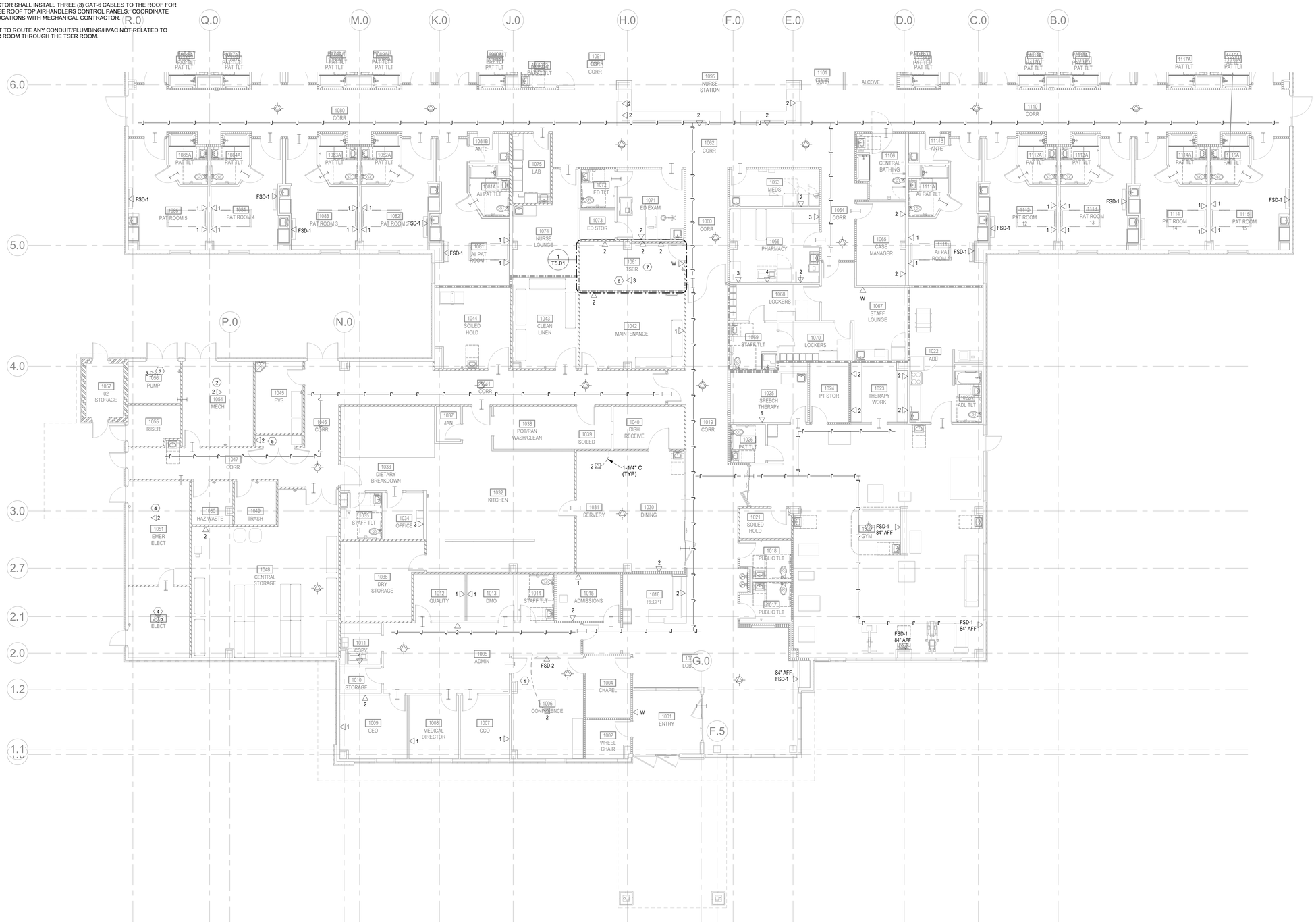
T0.01

TELECOMMUNICATIONS - LEGENDS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

KEYED NOTES:

1. CONTRACTOR SHALL INSTALL TWO 1-1/2" CONDUITS FOR DATA AND A/V CABLING.
2. CONTRACTOR SHALL COORDINATE TELECOMMUNICATIONS OUTLET LOCATIONS WITH THE MECHANICAL CONTRACTOR.
3. CONTRACTOR SHALL COORDINATE TELECOMMUNICATIONS OUTLET LOCATIONS WITH THE BUILDING AUTOMATION CONTRACTOR.
4. CONTRACTOR SHALL COORDINATE TELECOMMUNICATIONS OUTLET LOCATIONS WITH THE ELECTRICAL CONTRACTOR.
5. CONTRACTOR SHALL INSTALL TWO (2) CAT-6 CABLES TO THE FIRE ALARM SYSTEM, AND SHALL COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATION AND TERMINATION DETAILS.
6. CONTRACTOR SHALL INSTALL THREE (3) CAT-6 CABLES TO THE ROOF FOR THE THREE ROOF TOP AIRHANDLERS CONTROL PANELS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
7. GC IS NOT TO ROUTE ANY CONDUIT/PLUMBING/HVAC NOT RELATED TO THE TSER ROOM THROUGH THE TSER ROOM.



1 T1.01a TELECOMMUNICATIONS - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

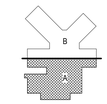
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

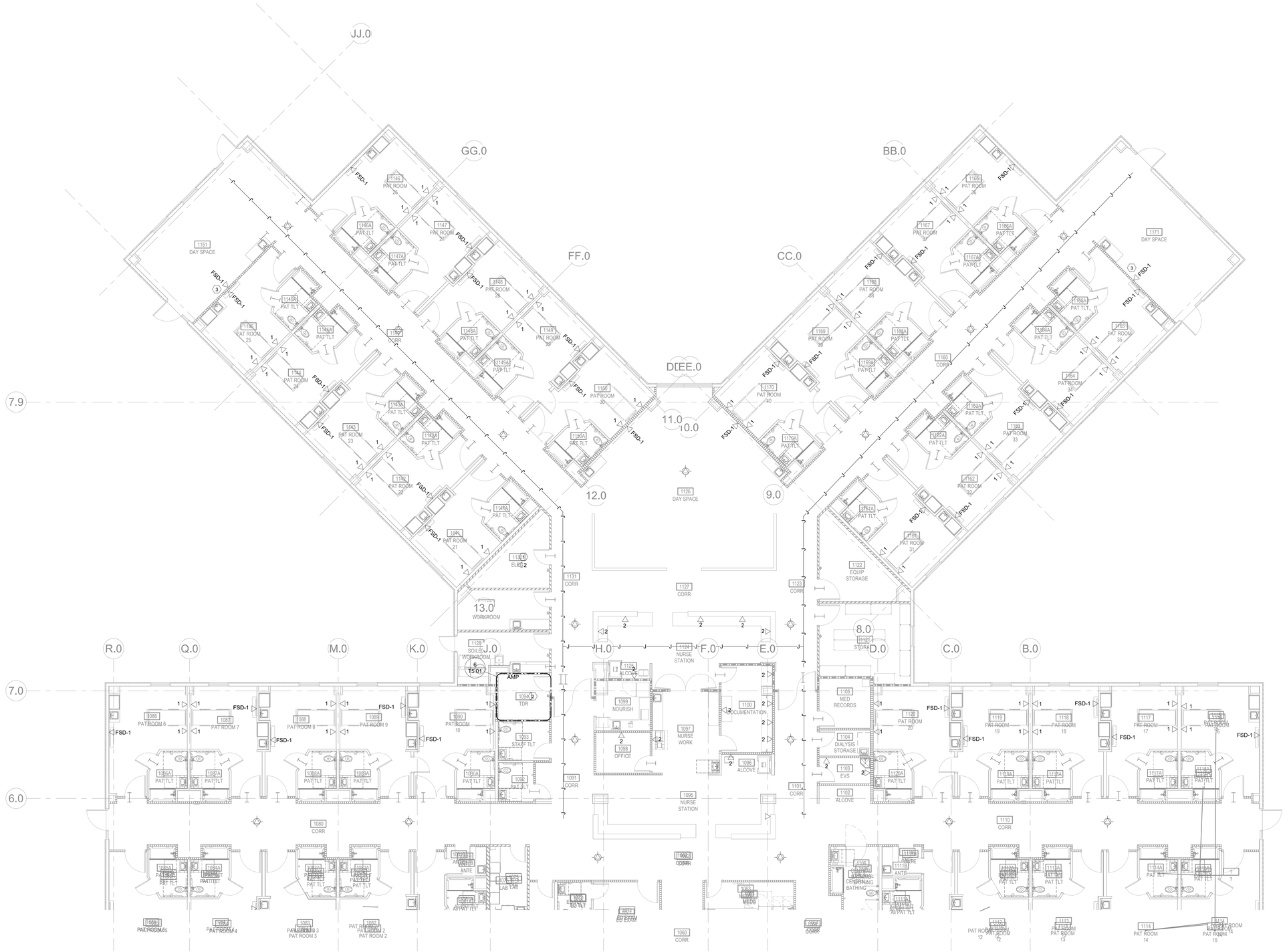
T1.01a

TELECOMMUNICATIONS - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

KEYED NOTES:

1. CONTRACTOR SHALL COORDINATE TELECOMMUNICATIONS OUTLET LOCATIONS WITH ELECTRICAL CONTRACTOR.
2. GC IS NOT TO ROUTE ANY CONDUIT/PLUMBING/HVAC NOT RELATED TO THE TDR ROOM THROUGH THE TDR ROOM.
3. GC TO COORDINATE EXACT LOCATION WITH ARCHITECTURE GRAPHICS ON WALL PRIOR TO INSTALLATION.



1 / T1.01b TELECOMMUNICATIONS - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH | PROJECT NORTH

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

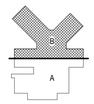
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

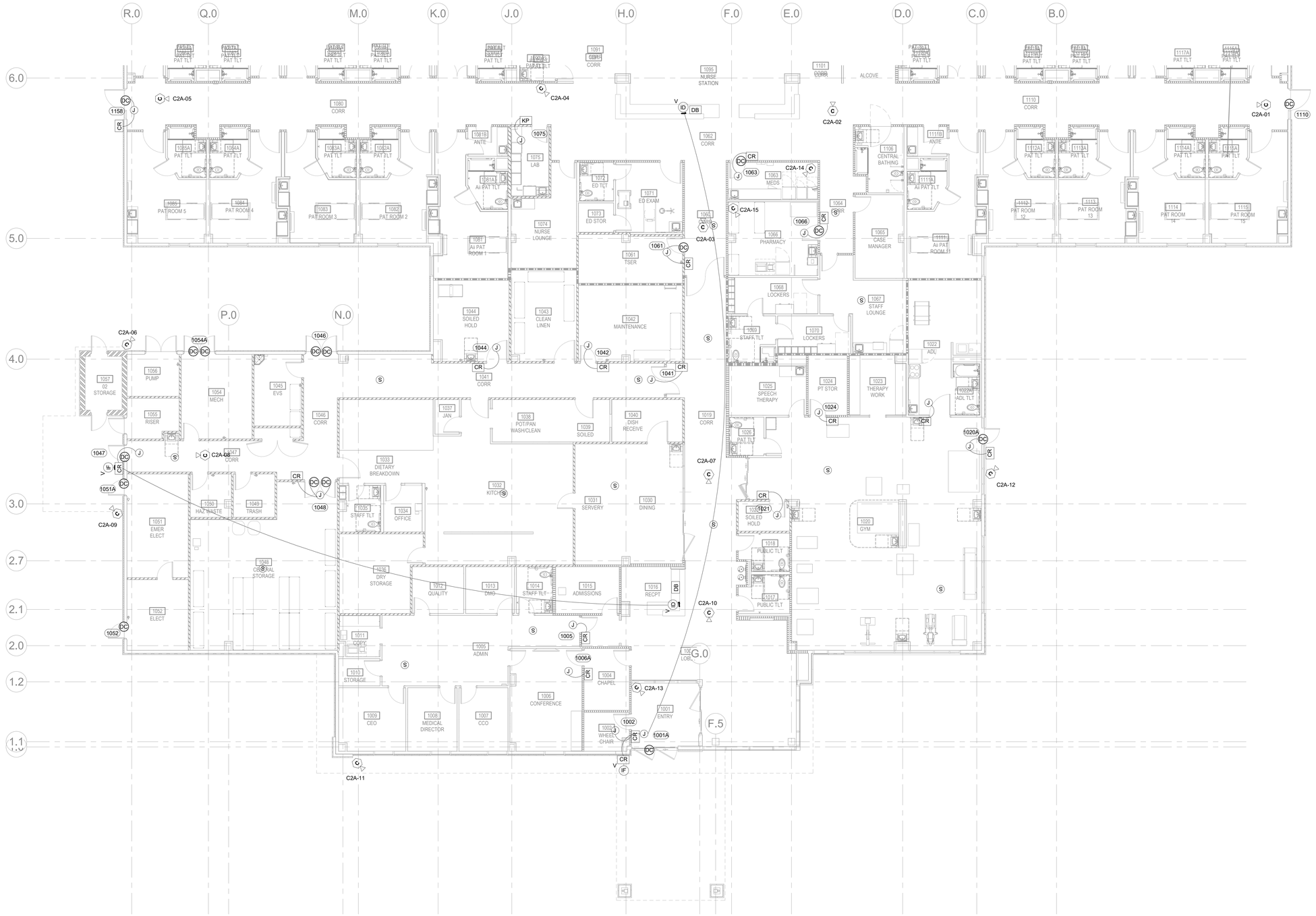
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T1.01b

TELECOMMUNICATIONS - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



1 T2.01a COMMUNICATIONS - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH
PROJECT NORTH

e4h ENVIRONMENTS FOR HEALTH ARCHITECTURE
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

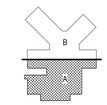
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

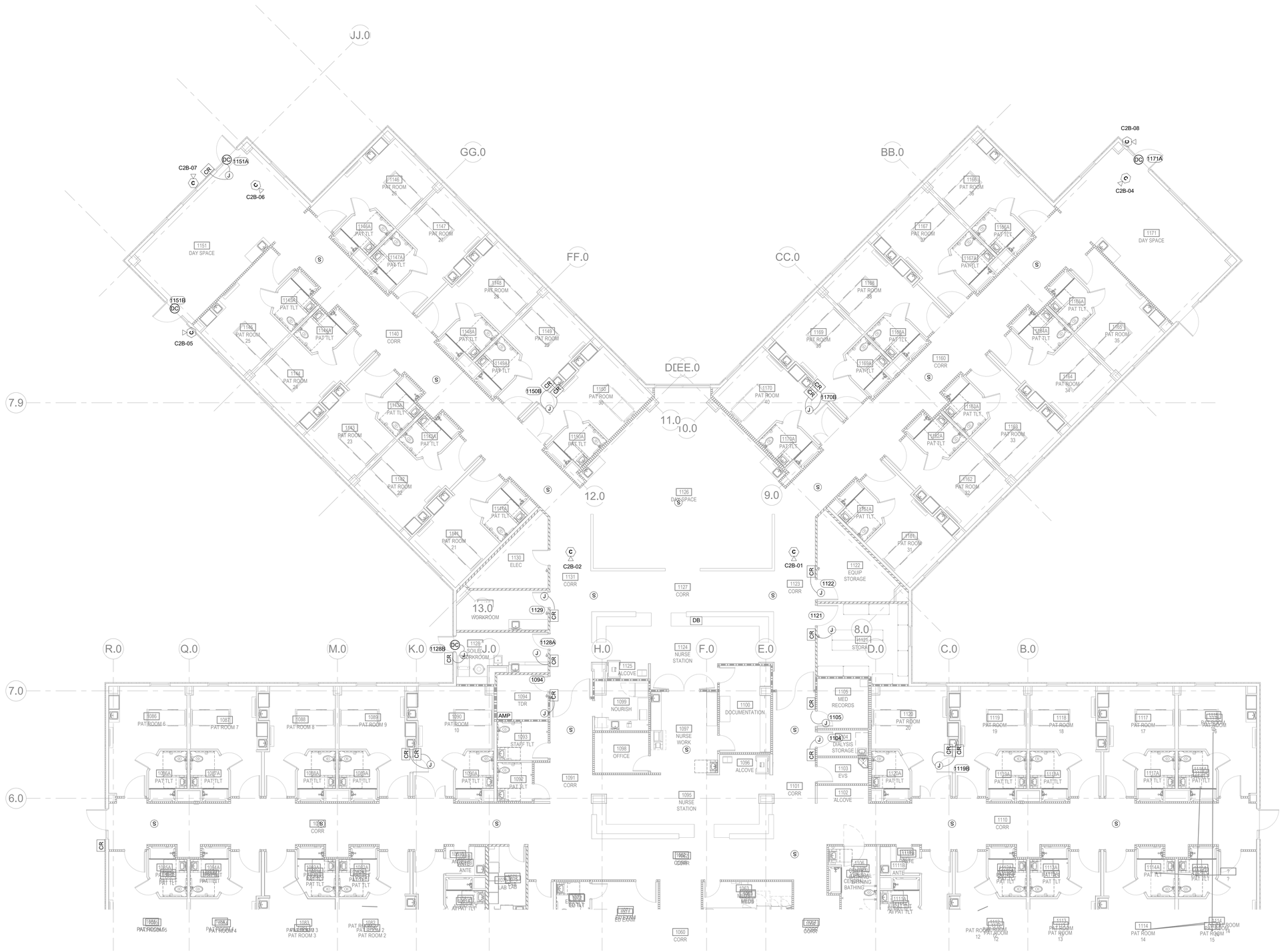
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T2.01a

COMMUNICATIONS - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCHITECTURAL SHEETS


JJ.0
GG.0
FF.0
DEE.0
CC.0
BB.0
7.9
11.0
10.0
12.0
9.0
13.0
WORKROOM
8.0
R.0
Q.0
M.0
K.0
J.0
H.0
F.0
E.0
D.0
C.0
B.0
7.0
6.0
C2B-07
C2B-06
C2B-05
C2B-08
C2B-04
C2B-02
C2B-01
1151A
1151B
1171A
1150B
1170B
1128B
1128A
1119B
1151 DAY SPACE
1171 DAY SPACE
1140 CORR
1160 CORR
1126 RUN SPACE
1130 ELEC
1131 CORR
1123 CORR
1122 EQUIP STORAGE
1121 STORAGE
1129 SOILED WORKROOM
1124 NURSE STATION
1125 ALCOVE
1099 NOURISH
1098 OFFICE
1097 NURSE WORK
1100 DOCUMENTATION
1096 ALCOVE
1095 NURSE STATION
1091 CORR
1094 TDR
1093 STAFF TLT
1092 PAT TLT
1090 PAT ROOM 10
1088 PAT ROOM 8
1089 PAT ROOM 9
1086 PAT ROOM 6
1087 PAT ROOM 7
1085 PAT ROOM 5
1084 PAT ROOM 4
1083 PAT ROOM 3
1082 PAT ROOM 2
1081 CORR
1060 CORR
1061 MEDS
1062 EXAM
1077 EXAM
1063 LAB
1064 LAB TLT
1065 ANTE
1066 PAT TLT
1067 PAT ROOM 1
1105 MED RECORDS
1104 DIALYSIS STORAGE
1103 EVS
1102 ALCOVE
1101 CORR
1128 PAT ROOM 20
1120A PAT TLT
1119 PAT ROOM 19
1118 PAT ROOM 18
1117 PAT ROOM 17
1116 PAT ROOM 16
1119A PAT TLT
1118A PAT TLT
1117A PAT TLT
1116A PAT TLT
1110 CORR
1111 ANTE
1112 PAT TLT
1113 PAT ROOM 13
1114 PAT ROOM 14
1115 PAT ROOM 15
1112A PAT TLT
1113A PAT TLT
1114A PAT TLT
1115A PAT TLT
1168 PAT ROOM 38
1167 PAT ROOM 37
1166A PAT TLT
1167A PAT TLT
1169 PAT ROOM 39
1168A PAT TLT
1169A PAT TLT
1170 PAT ROOM 40
1176A PAT TLT
1165 PAT ROOM 35
1165A PAT TLT
1164 PAT ROOM 34
1163 PAT ROOM 33
1163A PAT TLT
1162 PAT ROOM 32
1161A PAT TLT
1161 PAT ROOM 31
1146 PAT ROOM 25
1147 PAT ROOM 26
1148 PAT ROOM 28
1149 PAT ROOM 29
1150 PAT ROOM 30
1146A PAT TLT
1147A PAT TLT
1148A PAT TLT
1149A PAT TLT
1150A PAT TLT
1145 PAT ROOM 24
1144 PAT ROOM 23
1143 PAT ROOM 22
1142 PAT ROOM 21
1145A PAT TLT
1144A PAT TLT
1143A PAT TLT
1142A PAT TLT
1136 PAT ROOM 27
1145B PAT TLT
1144B PAT TLT
1176 PAT ROOM 40
1164A PAT TLT
1183A PAT TLT
1182A PAT TLT
1162A PAT TLT
1161A PAT TLT
1176A PAT TLT
1150A PAT TLT
1149A PAT TLT
1148A PAT TLT
1147A PAT TLT
1146A PAT TLT

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE

GENERAL NOTES:

A. EMERGENCY PULL STATION FOR SHOWER SHALL BE INSTALLED 6" INSIDE THE SHOWER. COORDINATE WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.



1 T3.01a NURSE CALL - LEVEL 1 - AREA A
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION:
JOSHUA R. CARTWRIGHT, P.E. #71893

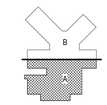
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

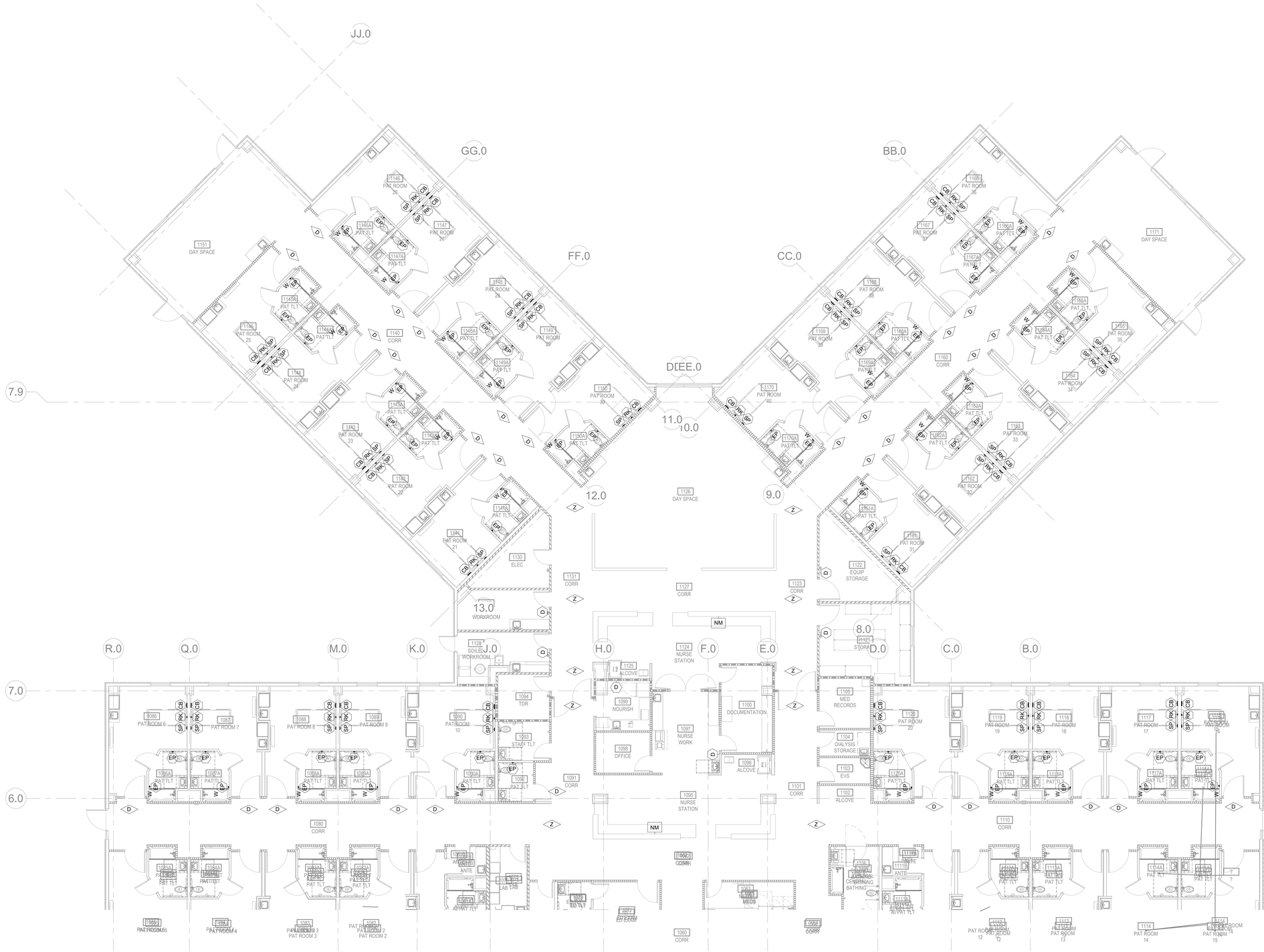
T3.01a

NURSE CALL - LEVEL 1 - AREA A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCHITECTURAL SHEETS

GENERAL NOTES:

A. EMERGENCY PULL STATION FOR SHOWER SHALL BE INSTALLED 6" INSIDE THE SHOWER. COORDINATE WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.



1 T3.01b NURSE CALL - LEVEL 1 - AREA B
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

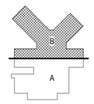
MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

KEY PLAN:



NOT FOR CONSTRUCTION

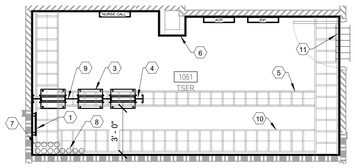
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T3.01b

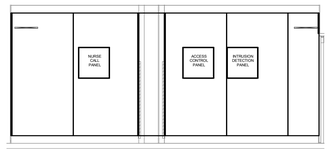
NURSE CALL - LEVEL 1 - AREA B

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

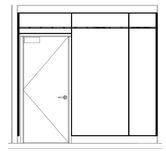


1 T5.01 TSER 1061
1/4" = 1'-0"

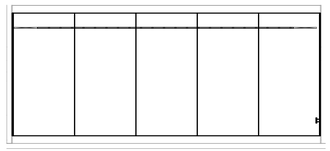




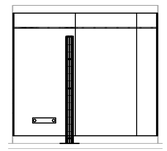
2 T5.01 TSER 1061 VIEW A
1/4" = 1'-0"



3 T5.01 TSER 1061 VIEW B
1/4" = 1'-0"



4 T5.01 TSER 1061 VIEW C
1/4" = 1'-0"



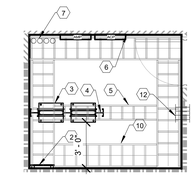
5 T5.01 TSER 1061 VIEW D
1/4" = 1'-0"

KEYED NOTES:

1. PRIMARY BONDING BUSBAR. MINIMUM 20"x4".
2. SECONDARY BONDING BUSBAR. MINIMUM 12"x4".
3. STANDARD 19" 2-POST RELAY RACK.
4. DUAL SIDED 6" WIDE VERTICAL WIRE MANAGER.
5. 12" WIDE LADDER RACK MOUNTED AT 7' 6" AFF. CONTRACTOR SHALL PROVIDE A CABLE WATERFALL AT ANY LOCATION WHERE CABLES EXIT BELOW THE LADDER RACK.
6. WRAP ENTIRE ROOM WITH 3/4" FIRE RETARDANT PLYWOOD MOUNTED AT 6" AFF. CONTRACTOR SHALL PROVIDE PLYWOOD ABOVE THE DOOR AS SHOWN.
7. FOUR 4" CONDUITS BETWEEN TSER AND TDR.
8. FOUR 4" PRIMARY SERVICE ENTRANCE CONDUITS. FOUR 4" SECONDARY SERVICE ENTRANCE CONDUITS.
9. DUAL SIDED 10" WIDE VERTICAL WIRE MANAGER.
10. 18" WIDE LADDER RACK MOUNTED AT 7' 6" AFF. CONTRACTOR SHALL PROVIDE A CABLE WATERFALL AT ANY LOCATION WHERE CABLES EXIT BELOW THE LADDER RACK.
11. QUANTITY OF SIX (6) 4" FIRE RATED SLEEVES.
12. QUANTITY OF FOUR (4) 4" FIRE RATED SLEEVES.

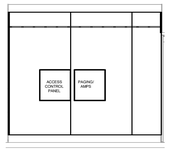
GENERAL NOTES:

A. 3' CLEARANCE MUST BE MAINTAINED BEHIND THE RACKS AT ALL TIME IN BOTH TSER AND TDR ROOMS.

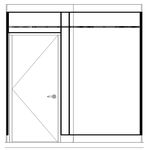


6 T5.01 TDR 1094
1/4" = 1'-0"

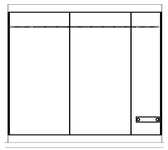




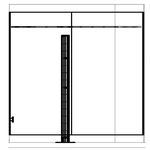
7 T5.01 TDR 1094 VIEW A
1/4" = 1'-0"



8 T5.01 TDR 1094 VIEW B
1/4" = 1'-0"



9 T5.01 TDR 1094 VIEW C
1/4" = 1'-0"



10 T5.01 TDR 1094 VIEW D
1/4" = 1'-0"

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
893.781.8441 817.226.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

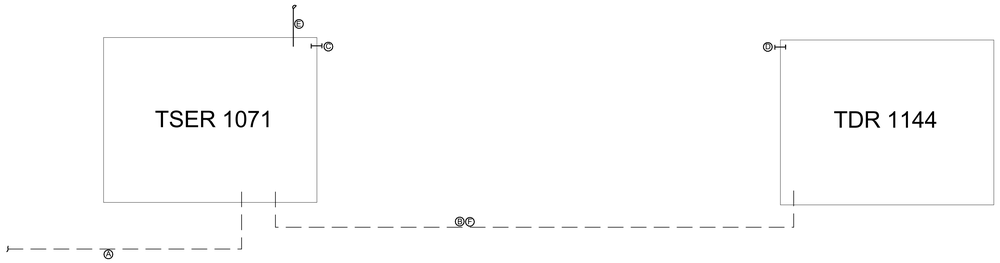
SHEET TITLE AND NUMBER:

T5.01

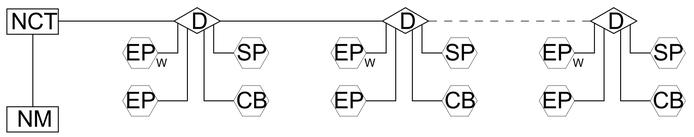
TELECOMMUNICATIONS - ELEVATIONS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

LEGEND	
A	FOUR (4) 4" CONDUITS TO SERVICE PROVIDERS HANDHOLE FOR PRIMARY ENTRANCE, SHALL BE INSTALLED BY CONTRACTOR, CABLE TO BE INSTALLED BY PROVIDERS,
B	FOUR (4) 4" CONDUITS TO SERVICE PROVIDERS HANDHOLE FOR SECONDARY ENTRANCE, SHALL BE INSTALLED BY CONTRACTOR, CABLE TO BE INSTALLED BY PROVIDERS,
C	FOUR (4) 4" CONDUITS, SHALL BE INSTALLED BY CONTRACTOR
D	QUANTITY OF SIX (6) 4" FIRE RATED SLEEVES SHALL BE INSTALL BE CONTRACTOR, HILTI CP653 OR APPROVED EQUAL
E	QUANTITY OF FOUR (4) 4" FIRE RATED SLEEVES SHALL BE INSTALL BE CONTRACTOR, HILTI CP653 OR APPROVED EQUAL
F	ONE (1) 4" AND ONE (1) 2" CONDUIT SHALL BE INSTALLED BY THE CONTRACTOR TO THE ROOF IN A FIRE RATED SHAFT, AND IT ROOM SHALL BE 2-HOUR RATED
G	LOW VOLTAGE CONTRACTOR SHALL INSTALL (1) 24-STRAND OM4 MULTIMODE FIBER OPTIC CABLE BETWEEN THE MDF AND IDF ROOMS



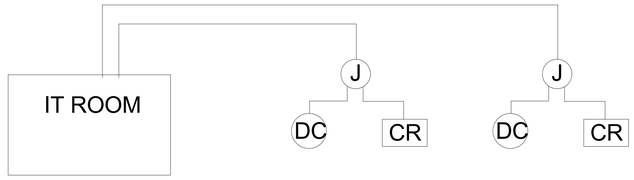
FIBER RISER DIAGRAM



NURSE CALL 1-LINE DIAGRAM



PAGING 1-LINE DIAGRAM



ACCESS CONTROL 1-LINE DIAGRAM

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

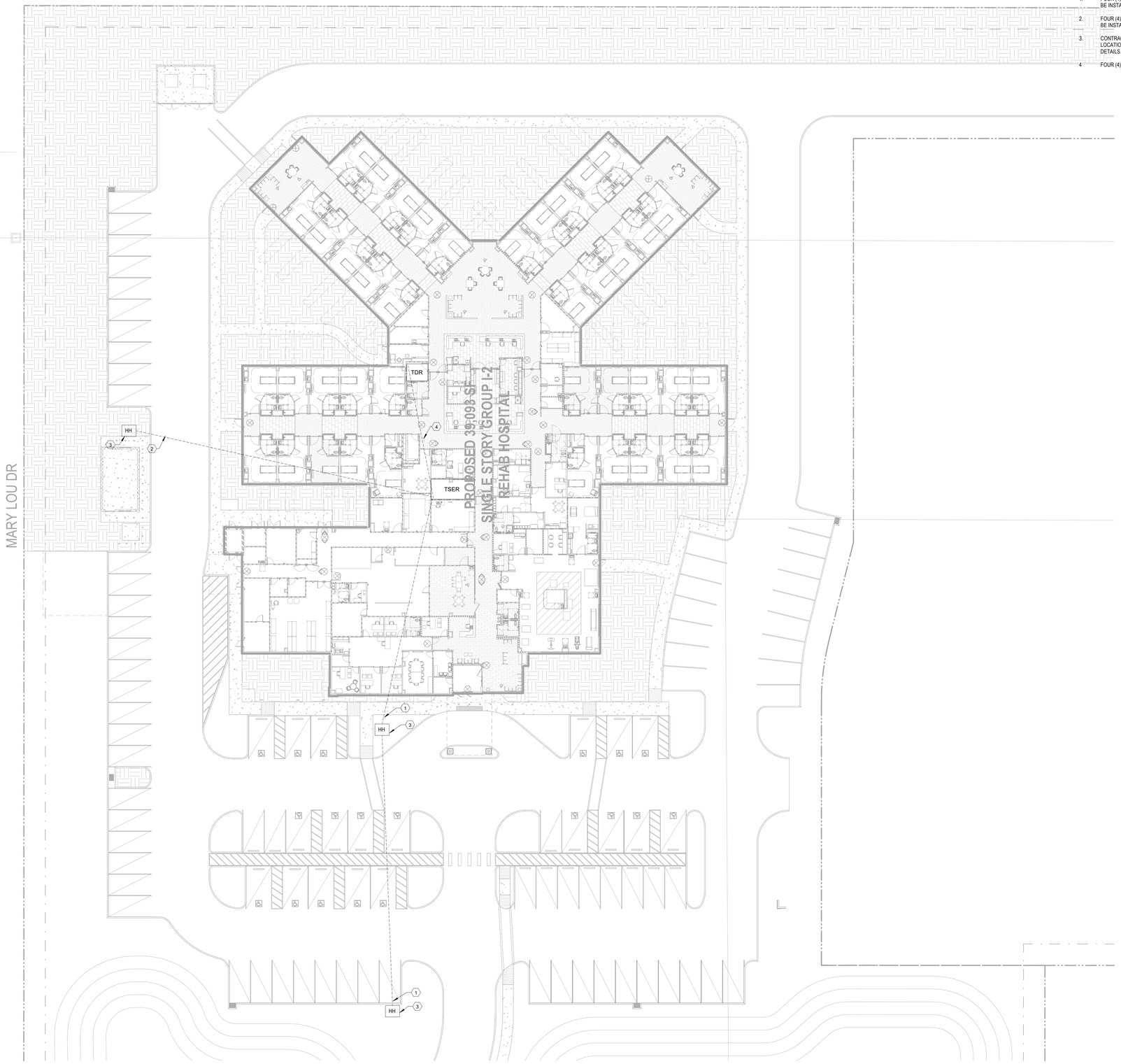
T7.01

TELECOMMUNICATIONS - RISER

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PLOTTED SHEETS

KEYNOTES:

1. FOUR (4) - 4" CONDUITS TO SERVICE PROVIDERS HANDHOLE FOR PRIMARY ENTRANCE, SHALL BE INSTALLED BY CONTRACTOR, CABLE TO BE INSTALLED BY PROVIDERS.
2. FOUR (4) - 4" CONDUITS TO SERVICE PROVIDERS HANDHOLE FOR SECONDARY ENTRANCE, SHALL BE INSTALLED BY CONTRACTOR, CABLE TO BE INSTALLED BY PROVIDERS.
3. CONTRACTOR TO INSTALL A 36" X 36" X 36" COMMUNICATIONS HANDHOLE. COORDINATE EXACT LOCATION WITH SERVICE PROVIDER PRIOR TO INSTALLATION. SEE T9.04 SHEET FOR ADDITIONAL DETAILS.
4. FOUR (4) - 4" CONDUITS CONNECTING TSER TO TDR SHALL BE INSTALLED BY CONTRACTOR.



1 T8.01 TELECOMMUNICATIONS - SITE PLAN
1" = 20'-0"

TRUE NORTH
PROJECT NORTH

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

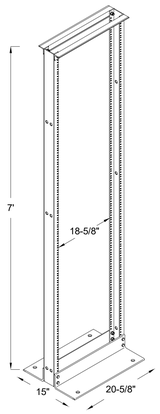
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

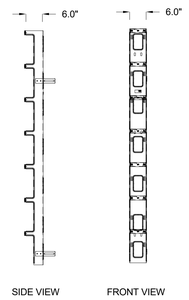
T8.01

TELECOMMUNICATIONS - SITE PLAN

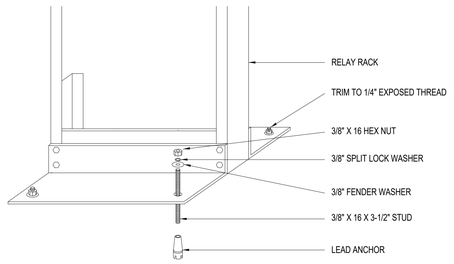
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



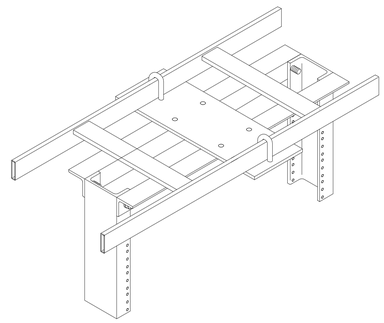
STANDARD 19" RELAY RACK DETAIL — 1
No Scale



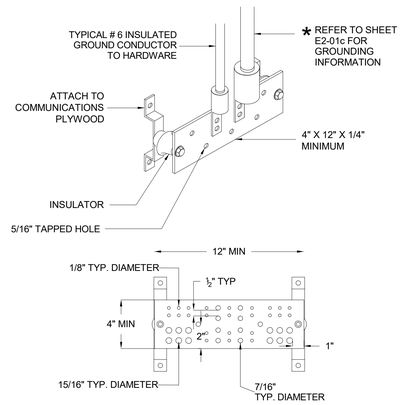
VERTICAL WIRE MANAGEMENT — 2
No Scale



RELAY RACK STANDARD ANCHORING DETAIL — 3
No Scale

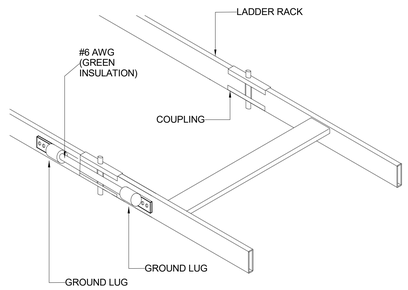


LADDER RACK TO RACK / CABINET MOUNTING DETAIL — 4
No Scale

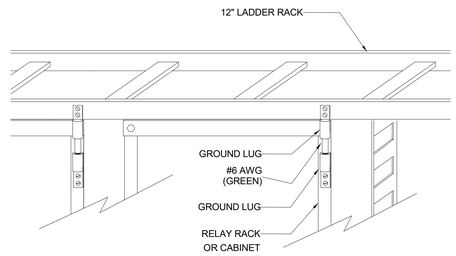


*COMPRESSION FITTINGS ONLY

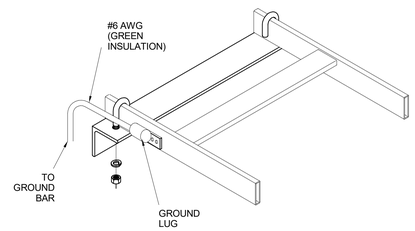
PRIMARY BONDING BUSBAR DETAIL (PBB) — 5
No Scale



LADDER RACK TO LADDER RACK BONDING DETAIL — 6
No Scale



LADDER RACK TO RACK / CABINET BONDING DETAIL — 7
No Scale



LADDER RACK TO WALL BRACKET DETAIL — 8
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
889.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

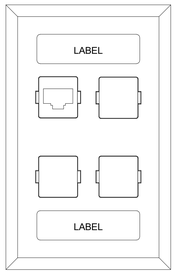
SHEET TITLE AND NUMBER:

T9.01

TECHNOLOGY - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SHEETS

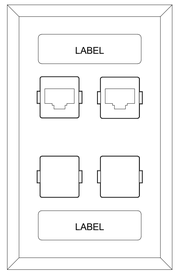
ONE (1) CATEGORY 6 RJ45 JACK- ONE (1) 4 PORT FACEPLATE THREE (3) BLANK-UP MODULES



MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED

SINGLE TELECOMMUNICATIONS OUTLET DETAIL — 1

TWO (2) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE TWO (2) BLANK-UP MODULES

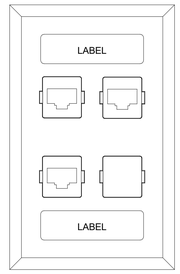


MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED

DUPLEX TELECOMMUNICATIONS OUTLET DETAIL — 2

No Scale

THREE (3) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE ONE (1) BLANK-UP MODULE

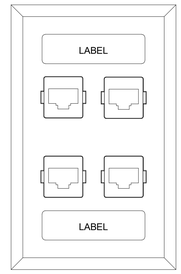


MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED

TRIPLEX TELECOMMUNICATIONS OUTLET DETAIL — 3

No Scale

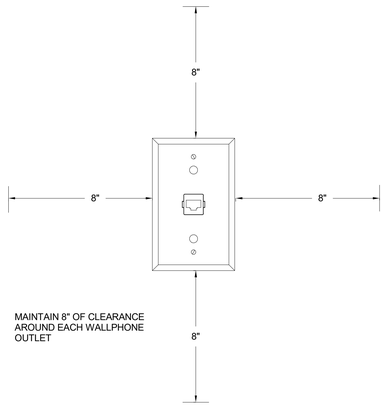
FOUR (4) CATEGORY 6 RJ45 JACKS- ONE (1) 4 PORT FACEPLATE



MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED

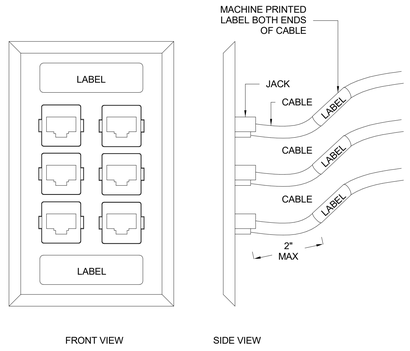
QUAD TELECOMMUNICATIONS OUTLET DETAIL — 4

No Scale



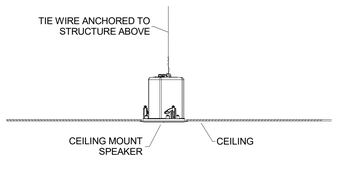
WALL MOUNT TELEPHONE DETAIL — 5

No Scale



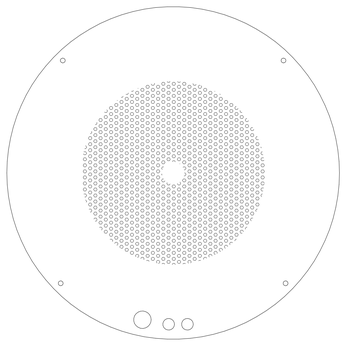
FACEPLATE LABELING DETAIL — 6

No Scale



CEILING SPEAKER DETAIL — 7

No Scale



GRANDSTREAM GSC3506 V2 CEILING SPEAKER — 8

No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

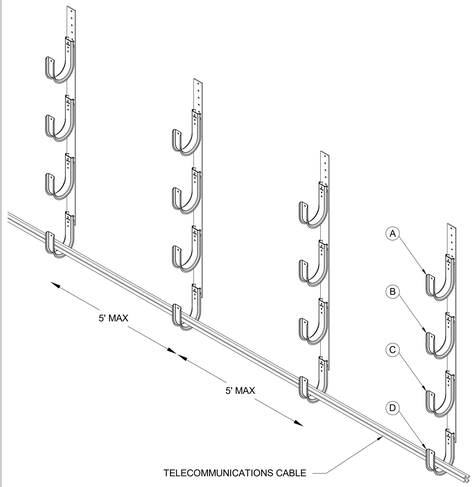
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T9.02

TECHNOLOGY - DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCHITECTURAL SHEETS



J-HOOK COLOR CODE NOTES

A. TV, CONTROLS, MUSIC, MISC. PAINT FRONT LEG WHITE -

B. HVAC CONTROLS PAINT FRONT LEG BLUE

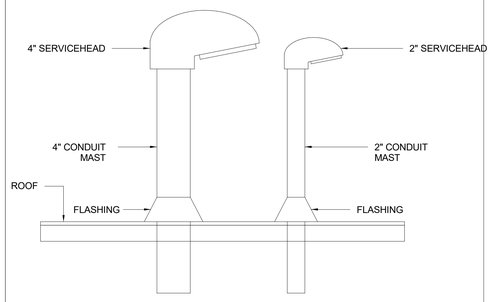
C. CODE BLUE - NURSE CALL, PAGING, PATIENT MONITORING, MEDGAS, ALARM. PAINT FRONT LEG ORANGE -

D. TELEPHONE, DICTATION, DATA/VOICE COMM. PAINT FRONT LEG YELLOW.

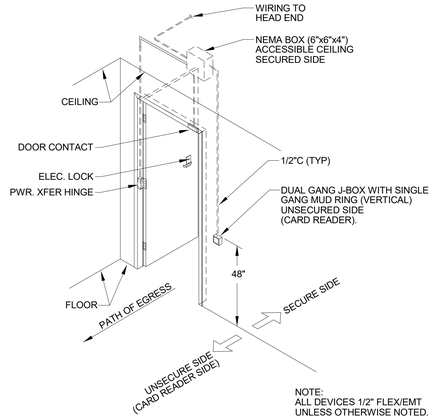
J-HOOK INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY HARDWARE FOR J-HOOKS.
2. WITHIN SIXTY FEET (60') OF ANY COMMUNICATIONS ROOM, SPACING FOR THE J-HOOKS SHALL BE REDUCED TO 32" CENTERS. SEE VENDOR CABLE ROUTING DRAWINGS.
3. WHERE ROUTE CROSSES CORRIDOR, PROVIDE J-HOOKS MOUNTED ON THREADED ROD AT THE CENTER OF THE CORRIDOR.
4. ALL FIRE WALL PENETRATIONS THROUGHOUT MAIN CORRIDORS SHALL HAVE FOUR (4) 4" SLEEVES (UNLESS OTHERWISE NOTED) TO PENETRATE WALL.
5. SLEEVES SHALL MATCH COLORS OF J-HOOKS.
6. MAINTAIN MINIMUM 12" CLEARANCE BETWEEN CEILING AND BOTTOM ROW OF J-HOOK TREE.

ISOMETRIC VIEW MULTI LEVEL J-HOOK DETAIL — 1

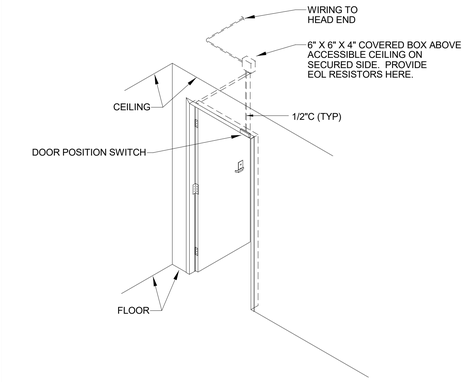


TELECOMMUNICATIONS MAST AND ROOF PENETRATION — 2
No Scale



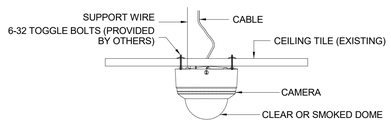
NOTE:
ALL DEVICES 1/2" FLEX/EMT UNLESS OTHERWISE NOTED.

SINGLE DOOR, ELECTRIFIED CYLNDRICAL LOCK, FAIL SECURE, INTEGRATED REX LOCAL P/S — 3
No Scale

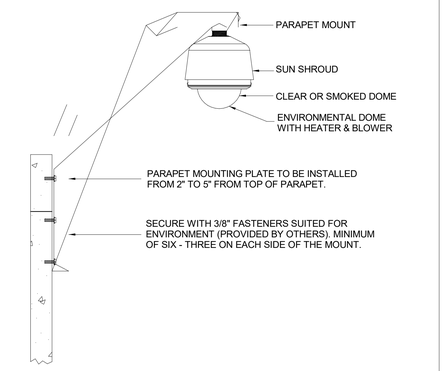


NOTE:
ALL DEVICES 1/2" FLEX/EMT UNLESS OTHERWISE NOTED.

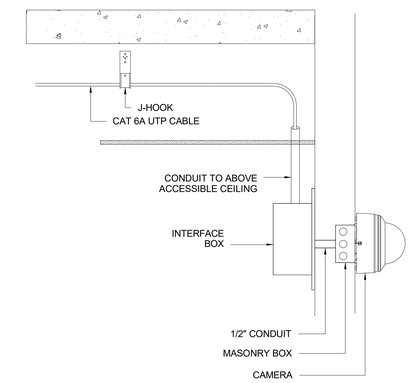
SINGLE DOOR, DPS (MONITOR ONLY), CONDUIT ROUGH-IN — 4
No Scale



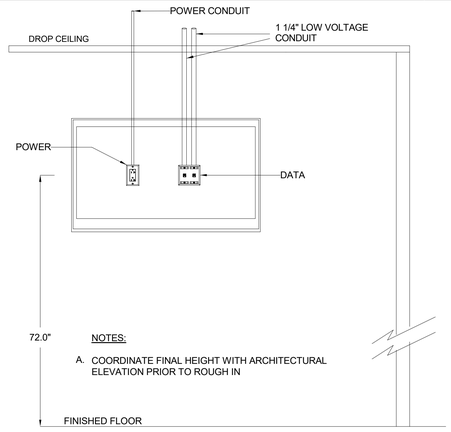
TYPICAL CEILING MOUNTED CCTV CAMERA DETAIL — 5
No Scale



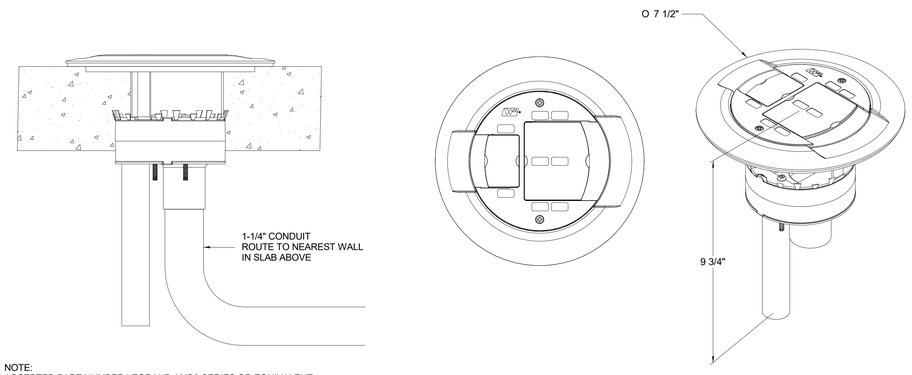
EXTERIOR PARAPET MOUNT CCTV CAMERA DETAIL — 6
No Scale



TYPICAL EXTERIOR FIXED MOUNT CCTV CAMERA DETAIL — 7
No Scale



MONITOR CONDUIT DETAIL — 8
No Scale



NOTE:
ACCEPTED PART NUMBER LEGRAND AMD8 SERIES OR EQUIVALENT.

COMMUNICATIONS FLUSH POKE THRU DEVICE — 9
No Scale

ENVIRONMENTS FOR HEALTH ARCHITECTURE
e4h
893.781.8441 817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com
© 2025 E4H - Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL -
PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405
PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

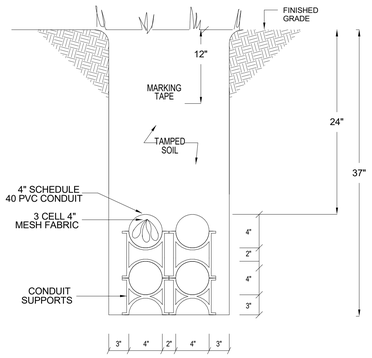
ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T9.03

TECHNOLOGY - DETAILS

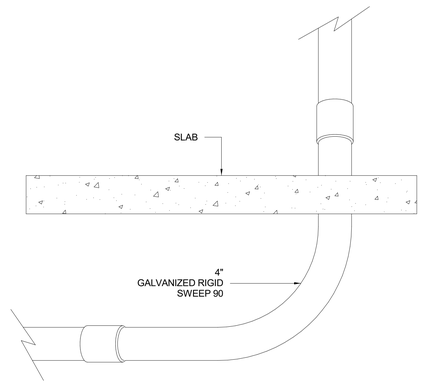
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE



SECTION 4 WAY DUCT BANK DETAIL

No Scale

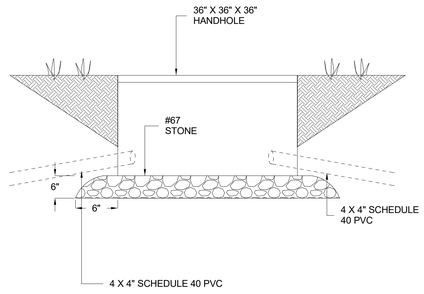
1



CONDUIT ENTRANCE DETAIL

No Scale

2

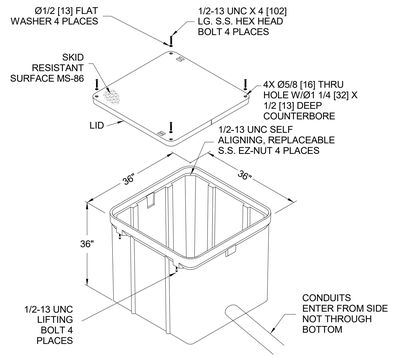


HANDHOLE SHALL BE INSTALLED TO BE FLUSH WITH THE DIRT.

36" W X 36" L X 36" D HANDHOLE DETAIL (TYPICAL)

No Scale

3



36" x 36" x 36" HANDHOLE DETAIL

No Scale

4

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
e4h
817.228.1917 801 Cherry St. Ste. 500, Fort Worth, TX 76102 e4harchitecture.com

© 2025 E4H+ Environments For Health, LLC

exalt health

RYAN

ICT
I.C. Thomasson Associates, Inc.
A Salas O'Brien Company
2950 Kraft Drive
Nashville, TN 37204
PHONE 615-346-3400
https://www.ictthomasson.com/
ICT Project No. 2545-02546

FIRM CERTIFICATE OF AUTHORIZATION: CA-1276

ELECTRICAL ENGINEER
FLORIDA REGISTRATION
JOSHUA R. CARTWRIGHT, P.E. #71893

MECHANICAL ENGINEER
FLORIDA REGISTRATION:
ZACHARY N. McCOY, P.E. #93060

EXALT HEALTH
40 BED REHAB HOSPITAL - PANAMA CITY BEACH
2851 HWY 77
PANAMA CITY, FLORIDA 32405

PROJECT: H002125

Δ	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

ORIG SUBMISSION: 02/13/26
CURRENT:

SHEET TITLE AND NUMBER:

T9.04

TECHNOLOGY - DETAILS

GENERAL CONTRACTOR RESPONSIBILITIES:

RESPONSIBLE FOR INFORMING OF JOB SITE SAFETY CONDITIONS, I.E.; POST TENSION CONCRETE, CRANES, WELDING AREAS, LIVE ELECTRICAL WORK, OPEN PITS, ETC.
RESPONSIBLE FOR ALL AREAS TO BE CLEAN AND ALL FINISHES COMPLETED BEFORE EQUIPMENT DELIVERY (FRP, TILE AND BASE, PAINT, CEILING GRID, DUCT WORK, ETC.)
RESPONSIBLE FOR SPECIAL CONDITIONS CONCERNING WALL BACKING OR BLOCKING FOR KITCHEN AND BAR EQUIPMENT NOTE: K.E.C. IS NOT RESPONSIBLE FOR SHELF FAILURE IF BLOCKING IS NOT PROVIDED.
PROVIDE AVAILABLE ACCESS (MINIMUM CLEARANCE OF 42) TO ALL AREAS REQUIRING KITCHEN OR BAR EQUIPMENT
INFORM K.E.C OF ANY SCHEDULE CHANGES, PLAN CHANGES OR UPDATES OF ANY KIND IN REFERENCE TO KITCHEN EQUIPMENT. CHANGES MADE TO A SCHEDULED INSTALLATION REQUIRE A MINIMUM 2 WEEKS' NOTICE, PRIOR TO THE PREDETERMINED INSTALLATION DATE.
WALK-IN COOLER SLAB MUST BE TRANSIT/LASER LEVEL. G.C. 'S ROOFER TO FLASH AND COUNTER-FLASH WALK-IN ROOF MEMBRANE AS NEEDED.
ALL FINAL ELECTRICAL, PLUMBING, GAS & MECHANICAL CONNECTIONS
ANY AND ALL FABRICATED MILLWORK ITEMS WILL BE DESIGNED AND MANUFACTURED TO ARCHITECT'S HOLD TO DIMENSIONS.
PROVIDE DUMPSTER FOR TRASH REMOVAL.

ELECTRICAL:

PROVIDE ALL ROUGH-IN AND POWER SUPPLIES FOR ALL EQUIPMENT IN FLOORS, WALLS AND CEILINGS AS SPECIFIED AND SHOWN ON DRAWINGS.
MAKE ALL REQUIRED ELECTRICAL PENETRATIONS
RESPONSIBLE FOR SEALING ALL ELECTRICAL PENETRATIONS IN COOLER/FREEZER PANELS AND IN CONDUITS OR FLEXIBLE CONNECTIONS
MAKES ALL FINAL CONNECTIONS TO FS EQUIPMENT
RESPONSIBLE FOR CONTROL WIRING ON ALL FOODSERVICE EQUIPMENT (I.E. REFRIGERATION, DEFROST TIMERS, WATER SOLENOID VALVES, SINK FAUCETS, EXHAUST HOOD SYSTEMS, ETC.)
RESPONSIBLE FOR INSTALLING AND WIRING OF LIGHTING FIXTURES AND ALARM SYSTEMS PROVIDED BY K.E.C. IN WALK-IN COOLER/FREEZERS
RESPONSIBLE FOR INSTALLATION AND CONNECTION OF HEAT TAPES ON DRAIN LINES
RESPONSIBLE FOR SIZING OF ALL WIRING ON SPECIFIED EQUIPMENT WITH DIRECT OR HARD CONNECTIONS AND PROVIDE CORD AND PLUG WHEN REQUIRED.
FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS INCLUDING DISCONNECTS, CONDUIT, WIRE, COVER PLATES, STARTERS, CORD SETS AND OTHER RELATED ITEMS NECESSARY FOR FINAL CONNECTIONS. MOUNTING OF COMPONENTS SHALL NOT INTERFERE WITH THE INSTALLATION OR OPERATION OF FOODSERVICE EQUIPMENT.
INSTALL ALL ITEMS PROVIDED LOOSE BY THE KEC PER SPECIFICATIONS SUCH AS, BUT NOT LIMITED TO, CONTROL PANELS, STARTERS AND DISCONNECTS.
FURNISH AND INSTALL ALL CONTROL WIRING AND/OR POWER WIRING BETWEEN ELECTRICAL COMPONENTS AS SPECIFIED SUCH AS, BUT NOT LIMITED TO, EXHAUST/MAKE-UP AIR FANS AND THE VENTILATION HOOD CONTROL PANEL, WALK-IN COOLER/FREEZER COILS AND THEIR RESPECTIVE COMPRESSORS AND THE WALK-IN COOLER/FREEZER LIGHTS.

PLUMBING:

RESPONSIBLE FOR ALL FLOOR, WALL AND CEILING PENETRATIONS OR SLEEVES AND INCLUDING SEALING SUCH PENETRATIONS
RESPONSIBLE FOR ALL DRAIN ASSEMBLIES FOR ALL KITCHEN AND BAR EQUIPMENT, SINKS, ETC.
RESPONSIBLE FOR STREET ELBOWS OR OTHER FITTINGS NEEDED TO COMPLETE ASSEMBLY FOR ALL FLOOR AND WALL MOUNTED SINKS
RESPONSIBLE FOR LOCATING ALL FLOOR DRAINS OR FLOOR SINK TO AVOID CONFLICT WITH LEG OR CASTER ASSEMBLIES
RESPONSIBLE FOR INSTALLING ALL SODA AND BEER LINE CHASES (NO 90'S, ALL SWEEPING ELLS)
RESPONSIBLE FOR WALK-IN COOLER/FREEZER DRAIN LINES INCLUDING TRAPS AND CLEAN-OUTS. COPPER MUST BE USED FOR CONDENSATE DRAIN LINES WHERE HEAT TAPE IS APPLIED.
RESPONSIBLE FOR ICE MACHINE WATER HOOK UP AND DRAIN CONNECTIONS INCLUDING WATER FILTER
RESPONSIBLE FOR ALL WATER AND DRAIN CONNECTIONS ON ALL KITCHEN AND BAR EQUIPMENT INCLUDING PIPING, TRAPS, TAILPIECES, VENTS, VACUUM BREAKERS/BACKFLOW PREVENTERS, TRAPS, STOPS, VALVES, FITTINGS, GAUGES, UNIONS, SHUT-OFFS, WATER HAMMER ARRESTERS AND OTHER RELATED ITEMS NECESSARY FOR FINAL CONNECTIONS.
RESPONSIBLE FOR ALL STEAM CONNECTIONS THAT MAY BE REQUIRED
HOT WATER TEMPERATURE TO BOOSTER HEATER OR DISH MACHINE MUST BE A MINIMUM OF 140 DEGREES FAHRENHEIT. IF INDICATED TO FS CONSULTANT AND/OR K.E.C., EQUIPMENT OPTIONS MAY BE AVAILABLE TO ALLOW FOR 110 DEGREE F FOR MINIMUM INCOMING WATER TEMPERATURE.
WATER PRESSURE TO KITCHEN EQUIPMENT SHOULD NOT EXCEED 50 PSI IN BOTH HOT AND COLD WATER LINES. WATER PRESSURE TO DISHWASHER AND BOOSTER HEATER SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES MUST MEET EQUIPMENT MANUFACTURERS FLOW RECOMMENDATIONS.

MECHANICAL:

RESPONSIBLE FOR ALL LABOR AND MATERIALS REQUIRED TO COMPLETE INSTALLATION OF ROOF CURBS, EXHAUST AND MAKE-UP AIR FANS. TO PROVIDE AND INSTALL ALL NECESSARY SUPPLY AND EXHAUST DUCTWORK MATERIALS, BOTH GREASE AND VAPOR.
1. THE ANSUL FIRE SUPPRESSION SYSTEM INSTALLATION IS INCLUDED WITH THE HOOD SYSTEM PACKAGE (IF PROVIDED BY K.E.C.) AND COMPLETED BY AN AUTHORIZED INSTALLER THAT HAS BEEN SUBCONTRACTED BY THE K.E.C.

RESPONSIBLE FOR ALL DIRECT VENT CONNECTIONS (HOODS, DISHWASHERS, ETC.) TO EQUIPMENT SUPPLY OR EXHAUSTS
RESPONSIBLE FOR ANY SLEEVES, SEALING OR INSULATING OF PENETRATIONS RELATED TO MECHANICAL SCOPE OF WORK
PROVIDE EQUIPMENT RACK (IF REQUIRED) FOR MOUNTING CONDENSING UNITS.

CARPENTRY:

RESPONSIBLE FOR WALL BACKING, BLOCKING OR STRAPPING. PLYWOOD IS RECOMMENDED.
(K.E.C. IS NOT RESPONSIBLE FOR SHELF FAILURE IS BLOCKING IS NOT PROVIDED)
REVIEW PLANS TO INSURE DOOR FRAMED OPENINGS ALIGN WITH WALK-IN COOLER/FREEZER DOORS AND ACCESSORIES ADJACENT TO DOORS; I.E. THERMOMETERS, ALARMS, LIGHT SWITCHES, ETC.

KITCHEN EQUIPMENT CONTRACTOR – (K.E.C.):

RESPONSIBLE FOR INSURING ALL F.F.E. IS DELIVERED TO JOB SITE
RESPONSIBLE FOR INSTALLING THE WALK-IN COOLER AND/OR FREEZER UNITS (G.C TO PROVIDE TRANSIT/LASER LEVEL CONCRETE SLAB)
1. INSTALLATION SLOPED MEMBRANE ROOF CAP (IF APPLICABLE). ALL FLASHING AND COUNTER FLASHING TO STRUCTURE IS BY OTHERS.
2. PROVIDE REMOTE CONDENSERS AND SETTING ONLY (ALL ELECTRICAL AND REFRIGERATION CONNECTIONS BY OTHERS)
3. INSTALLATION OF EVAPORATOR

RESPONSIBLE FOR UNCRATING, SETTING IN PLACE, REMOVAL OF PROTECTIVE PLASTIC, LEVELING, CAULKING AND MAKING ALL EQUIPMENT READY FOR FINAL CONNECTIONS. ANY EQUIPMENT LEVELING THAT WOULD REQUIRE LONGER LEGS, SHIMMING OF CASTERS OR ANY ADDITIONAL SHIMMING FOR SLOPES GREATER THAN PER FOOT MAY REQUIRE ADDITIONAL COST.
ALL FINAL CONNECTIONS BY OTHERS.
RESPONSIBLE FOR INSTALLATION OF ALL FREE STANDING OR WALL MOUNTED SHELVING
RESPONSIBLE FOR INSTALLATION OF RESTRAINT SYSTEMS ON KITCHEN EQUIPMENT
RESPONSIBLE FOR INSTALLATION OF TABLES, CHAIRS, BOOTHS OR MILLWORK COUNTERS IF PROVIDED BY K.E.C.. ANY CORE DRILLING TO BE BY OTHERS.
RESPONSIBLE FOR FIELD WELDS IF REQUIRED ON S/S TABLES OR PRODUCTS
RESPONSIBLE FOR COORDINATING CRITICAL DIMENSIONS FOR EQUIPMENT WITH GC AFTER ALL WALLS (WITH FINAL FINISHES APPLIED) OR OTHER PERMANENT STRUCTURES ARE IN PLACE
ANY ADDITIONAL MODIFICATIONS OR ALTERATIONS TO EQUIPMENT, TABLES OR SHELVING (HOLES DRILLED, ETC.) NECESSARY FOR THE ROUTING OF PLUMBING OR ELECTRICAL LINES WILL BE AN ADDITIONAL EXPENSE
K.E.C. WILL REMOVE ALL TRASH AND DEBRIS ASSOCIATED WITH KITCHEN EQUIPMENT AND PLACE IN DUMPSTER.
DUMPSTER TO BE PROVIDED BY OTHERS.
RESPONSIBLE FOR CONNECTIONS TO HAND SINKS, WHICH ARE HUNG BY K.E.C., INSTALLING AND HANGING WALL MOUNTED HAND SINKS, INCLUDING FAUCETS AND DRAINS.
RESPONSIBLE FOR PROVIDING AND INSTALLING EXHAUST HOODS, STAINLESS STEEL WALL PANELS (BELOW THE HOOD), STAINLESS STEEL CLOSURE PANELS (ABOVE THE HOOD), CORNER GUARDS AND FRAMED OPENING WRAPS.
PROVIDE AND INSTALL ALL REFRIGERATION LINE RUNS AND MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE SYSTEM INCLUDING START-UP OF EQUIPMENT FOR ICE MACHINES AND WALK-IN COOLER/FREEZERS, ETC.

EXCLUSIONS:

K.E.C. DOES NOT: SET EXHAUST/SUPPLY FANS, INSTALL ROOF CURBS, FURNISH OR RUN DUCT WORK OR PROVIDE CERTIFIED TEST & BALANCE; PERFORM FINAL PLUMBING (TO INCLUDE RUNNING DRAIN LINES), ELECTRICAL, REFRIGERATION OR HVAC FINAL CONNECTIONS. WALL BACKING TO BE REQUIRED AS NEEDED FOR ALL WALL MOUNT ITEMS AND IS TO BE INSTALLED BY GC.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. FOODSERVICE PLAN DIMENSIONS ARE TO BE VERIFIED BY THE G.C. OR ANY TRADE THAT UTILIZES FS PLAN AND SHOULD NOTIFY K.E.C. OF ANY DISCREPANCIES OR CONFLICTS WITH ARCHITECTURAL DRAWINGS OR DETAILS.
UTILITIES SHOWN ON FS PLAN ARE FOR FOODSERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING OR ELECTRICAL WHICH MAY BE REQUIRED WILL BE DETERMINED BY THE ARCHITECT OR ENGINEER.
ALL FINAL CONNECTIONS TO EQUIPMENT ITEMS AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS ARE MADE BY OTHERS.
QUARRY TILE FLOORS ARE TO BE WASHED AND THOROUGHLY RINSED AND DRIED PRIOR TO INSTALLING ANY FOODSERVICE EQUIPMENT. IF AN ACID PRODUCT IS USED AFTER WALK-INS OR ANY STAINLESS STEEL ITEMS ARE INSTALLED, SURFACES MAY BE DAMAGED (I.E. – DISCOLORATION, PITTING, STAINING, ETC.) AND REPLACEMENTS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INCUR.
COMPLIANCE TO LOCAL HEALTH, PLUMBING, ELECTRICAL, AND VENTILATION CODES ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. ALL PERMITS EXCEPT FOR THE FIRE SUPPRESSION SYSTEM (IF SUPPLIED BY K.E.C.), ARE THE RESPONSIBILITY OF THE ARCHITECT/CONTRACTOR/OR MECHANICAL ENGINEER.
ANY SPECIAL REQUIREMENTS SUCH AS CRANES, LULLS, FORKLIFTS, CONSTRUCTION DUMPSTER FOR GARBAGE, ETC. ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/BUYER.

PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DRS EST. 2002 DESIGN
750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions
www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:
EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075
DATE: 02/12/2026

GENERAL NOTES

TITLE:

FS-0.1

SHEET:

SCALE: 1/4"

SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
1	1	REMOTE CONDENSER PAD	–	–	BY GENERAL CONTRACTOR
2	1	REMOTE CONDENSING UNIT–FREEZER	KOLPAK	CUSTOM	OUTDOORS/AIR COOLED
3	1	REMOTE CONDENSING UNIT–COOLER	KOLPAK	CUSTOM	OUTDOORS/AIR COOLED
4	1	COOLER/FREEZER ASSEMBLY	KOLPAK	CUSTOM	WITH DEPRESSION
5	14	REFRIGERATION SHELVING	METRO	MAX 4	–
6	1	BLOWER COIL –10	KOLPAK	CUSTOM	–
7	4	MOBILE PAN RACK	METRO	RF3N	–
8	1	BLOWER COIL +35	KOLPAK	CUSTOM	–
9	–	SPARE NUMBER	–	–	–
10	–	SPARE NUMBER	–	–	–
11	2	MOBILE TRAY DELIVERY CART	CAMBRO	MDC1520T16191	W/CASTERS & BRAKES
12	9	S/S CORNER GUARD	FABRICATOR	CUSTOM	44" AFF
13	–	SPARE NUMBER	–	–	–
14	1	BASE ACTIVATOR	CAMBRO	MDSCDC9X1000	–
15	1	MOBILE BASE/DOME CART	CAMBRO	CPMU213675DDPKG	W/CASTERS & BRAKES
16	1	S/S WALL SHELF	FABRICATOR	CUSTOM	–
17	1	MOP SINK/CAN WASHER	IMC TEDDY	DL20–1	–
18	1	MOP/BROOM RACK	RUBBERMAID	FG199300–GREY	–
19	–	SPARE NUMBER	–	–	–
20	2	MOBILE UTILITY CART	METRO	MY3024G	–
21	–	SPARE NUMBER	–	–	–
22	9	DRY STORAGE SHELVING	METRO	MAX 4	–
23	LOT	OVERHEAD TRACK SHELVING	METRO	MAX 4	–
24	1	S/S UTENSIL RACK	FABRICATOR	CUSTOM	WALL MOUNTED
25	1	CAN RACK	METRO	CR4	W/CASTERS AND BRAKES
26	4	TRASH RECEPTACLE	–	–	BY OWNER
27	4	HAND SINK W/SIDE SPLASHES	ADVANCE	7–PS–66	–
28	1	FOOD PROCESSOR	ROBOT COUPE	R–502	–
29	–	SPARE NUMBER	–	–	–
30	1	PREP TABLE W/SINKS	FABRICATOR	CUSTOM	& DRAWERS
31	1	SMART WALL G3–GREY	METRO	CUSTOM	SIZE AS SHOWN
32	2	MOBILE TRASH RECEPTACLE	–	–	BY OWNER
33	1	DISPOSER W/CONTROL	SALVAJOR	200–SA–6–ARSS–LD	–
34	1	SLICER	GLOBE	G12	–
35	3	MOBILE INGREDIENT BIN	WINCO	IB–21	–
36	1	FIRE SUPPRESSION SYSTEM	ANSUL	R–102	–
37	LOT	S/S WALL FLASHING	FABRICATOR	CUSTOM	–
38	1	FRYER/FILTER ASSEMBLY	PITCO	SE14S–1FD	W/BNB–SE14
39	–	SPARE NUMBER	–	–	–
40	–	SPARE NUMBER	–	–	–
41	–	SPARE NUMBER	–	–	–
42	1	GRIDDLE W/THERMOSTAT & STAND	GARLAND	GTGG36–GT36M	COUNTER TOP
43	1	6 BURNER RANGE W/OVEN	GARLAND	G36–6T	W/CASTERS & BRAKES
44	1	WATER FILTER ASSEMBLY	EVERPURE	QT10+CR	–
45	1	DOUBLE COMBI OVEN	ALTO SHAAM	CTP6–10G/CTP10–10G	W/LOW STAND
46	1	DOUBLE CONVECTION OVEN	BLODGETT	DFG200DBL	–
47	1	EXHAUST HOOD	CADDY	2)PB–C–W–162–ND–60	–
48	1	CONVEYOR TOASTER	HATCO	TQ–400	–
49	–	SPARE NUMBER	–	–	–
50	–	SPARE NUMBER	–	–	–
51	1	REFRIGERATED SANDWICH UNIT	DELFIELD	4427NP–8	LOW PROFILE CASTERS
52	1	MICROWAVE OVEN	SHARP	R–21LCFS	–
53	1	MOBILE PLATE LOWERATOR	APW	ML2–10	–

SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
54	1	4–WELL HOT FOOD UNIT	WELLS	MOD–400TDM/AF	–
55	–	SPARE NUMBER	–	–	–
56	1	DOUBLE OVERSHELF	FABRICATOR	CUSTOM	–
57	1	UNDERCOUNTER FREEZER	DELFIELD	407–CAP	W/LOW PROFILE CASTERS
58	1	CHEFS COUNTER W/PLATE SHELF	FABRICATOR	CUSTOM	W/LOWERED SECTION FOR ITEM # 14
59	4	PRINTER	–	–	BY OWNER
60	1	HEAT LAMP	HATCO	GRAH–42	–
61	1	DROP–IN SOUP WELL	WELLS	SS–10TDU	–
62	1	BUILT–IN ROLL WARMER	WELLS	RW–16HD	–
63	1	MOBILE MIXER STAND	FABRICATOR	CUSTOM	W/CASTERS & BRAKES
64	1	20 QT. MIXER	GLOBE	SP20	–
65	1	SMART WALL G3–GREY	METRO	CUSTOM	SIZE AS SHOWN
66	1	MOBILE 1 DOOR HOT BOX	DELFIELD	GAH1–S	W/CASTERS & BRAKES
67	1	S/S FLOOR TROUGH W/GRATE	ADVANCE	CUSTOM	SIZE AS SHOWN
68	1	ICE STORAGE BIN	HOSHIZAKI	B–300SF	–
69	–	SPARE NUMBER	–	–	–
70	–	SPARE NUMBER	–	–	–
71	1	CUBE ICE MAKER	HOSHIZAKI	KM–350MAJ	AIR COOLED
72	4	WATER FILTER ASSEMBLY	EVERPURE	QT110+CR	SHORT FILTERS
73	2	MOBILE CUP/GLASS RACK DOLLY	METRO	D2121C	–
74	1	COFFEE BREWER	–	–	BY VENDOR
75	1	ICED TEA BREWER/DISPENSER	–	–	BY VENDOR
76	–	SPARE NUMBER	–	–	–
77	–	SPARE NUMBER	–	–	–
78	–	SPARE NUMBER	–	–	–
79	–	SPARE NUMBER	–	–	–
80	1	ICE/WATER DISPENSER	HOSHIZAKI	DCM–271BAH	AIR COOLED
81	1	S/S WALL SHELF	FABRICATOR	CUSTOM	SIZE AS SHOWN
82	1	BEVERAGE TABLE	FABRICATOR	CUSTOM	–
83	1	REACH–IN REFRIGERATOR	DELFIELD	GBR1P–G	W/CASTERS & BRAKES
84	1	MOBILE TRAY/PLASTIC DISPENSER	CADDY	CM–1418–CS	W/CASTERS
85	1	SERVING COUNTER W/STONE TOP	FABRICATOR	CUSTOM	W/LOAD CENTER
86	1	4–WELL HOT FOOD UNIT	WELLS	MOD–400TDM/AF	–
87	1	1 TIER FOOD SHIELD W/LIGHTS/HEAT LAMP	BSI	CUSTOM	–
88	1	DROP–IN COLD PAN	DELFIELD	N8156BP	AIR COOLED
89	–	SPARE NUMBER	–	–	–
90	–	SPARE NUMBER	–	–	–
91	1	2–TIER FOOD SHIELD W/LIGHTS	BSI	CUSTOM	–
92	1	POS SYSTEM	–	–	BY OWNER
93	1	DROP–IN HAND SINK	FABRICATOR	CUSTOM	INSTALL IN # 85
94	1	TRAY/TRASH COUNTER––40" HIGH COUNTER TOP	FABRICATOR	CUSTOM	W/OPEN BASE–NO SHELF
95	2	TRASH RECEPTACLE	–	–	BY OWNER
96	1	MICROWAVE COUNTER	FABRICATOR	CUSTOM	W/STONE TOP
97	1	MICROWAVE OVEN	SHARP	R–21LCFS	–
98	1	UPRIGHT BEVERAGE CASE	STRUCTURAL CONCEPTS	B4524	W/NIGHT COVER
99	–	SPARE NUMBER	–	–	–
100	–	SPARE NUMBER	–	–	–
101	1	SOILED DISH TABLE	FABRICATOR	CUSTOM	–
102	2	PRE–RINSE UNIT	T & S	B–0133–B	–
103	2	DISPOSER W/CONTROL	SALVAJOR	200–CA–15–ARSS–LD	–
104	2	S/S FLOOR TROUGH W/GRATE	ADVANCE	CUSTOM	SIZE AS SHOWN
105	2	DISH MACHINE VENT	FABRICATOR	CUSTOM	–
106	1	DISH MACHINE	JACKSON	RACKSTAR 44CE	W/COLD WATER AQUASTAT

SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
107	1	3–COMP SINK/CLEAN DISH TABLE	FABRICATOR	CUSTOM	–
108	1	SMART WALL G3–GREY	METRO	CUSTOM	SIZE AS SHOWN
109	1	MOBILE POT/PAN SHELF	METRO	PR48ES	W/CASTERS & BRAKES
110	–	SPARE NUMBER	–	–	–
111	3	VENDING MACHINE	–	–	BY VENDOR
112	1	BEVERAGE COUNTER W/LOCKING DOOR	FABRICATOR	CUSTOM	W/STONE TOP
113	1	CUBE ICE MAKER	HOSHIZAKI	F–450MAJ–C	AIR COOLED––SITS ON ITEM # 114
114	1	ICE/SODA DISPENSER	LANCER	IDB–4500	SUPPLIED BY OWNER
115	1	CUP/LID/STRAW DISPENSER	SAN JAMAR	L22CS2951BK	COUNTERTOP
116	1	WATER FILTER ASSEMBLY	EVERPURE	QT110+CR	WALL MOUNTED
117	1	AMBIENT CARBONATOR	–	–	SUPPLIED BY VENDOR
118	1	BAG–IN–BOX RACK	–	–	SUPPLIED BY VENDOR

PRELIMINARY/NOT FOR CONSTRUCTION

FOODSERVICE DESIGN
DRS
EST. 2002

750 OLD HICKORY BLVD.
SUITE 140
Brentwood, TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:

EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075

DATE: 02/12/2026

KITCHEN EQUIPMENT SCHEDULE

TITLE:

FS-1.0

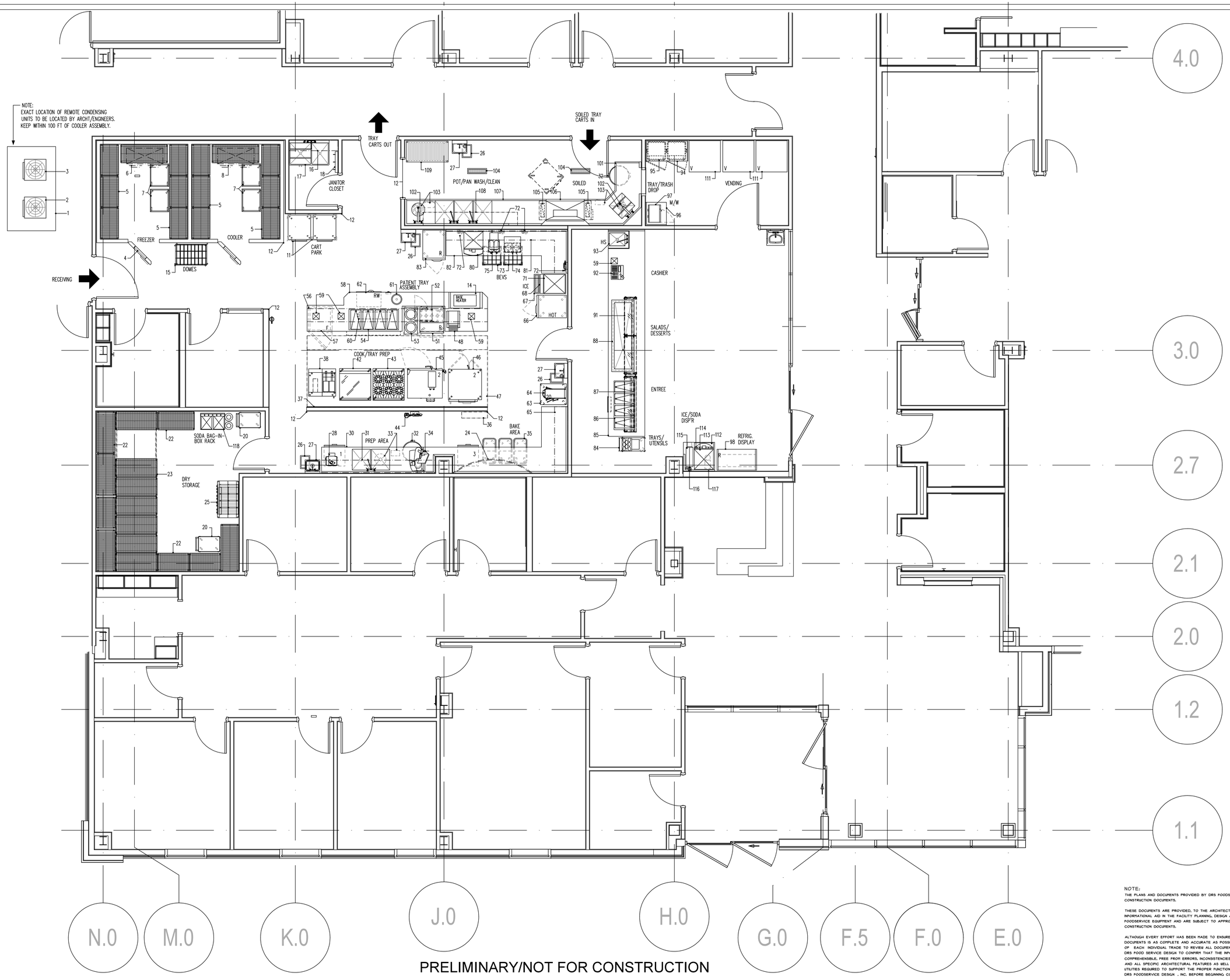
SHEET:

SCALE: 1/4"

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.



PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DRS EST. 2002 DESIGN

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:

EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075

DATE: 02/12/2026

KITCHEN EQUIPMENT PLAN

TITLE:

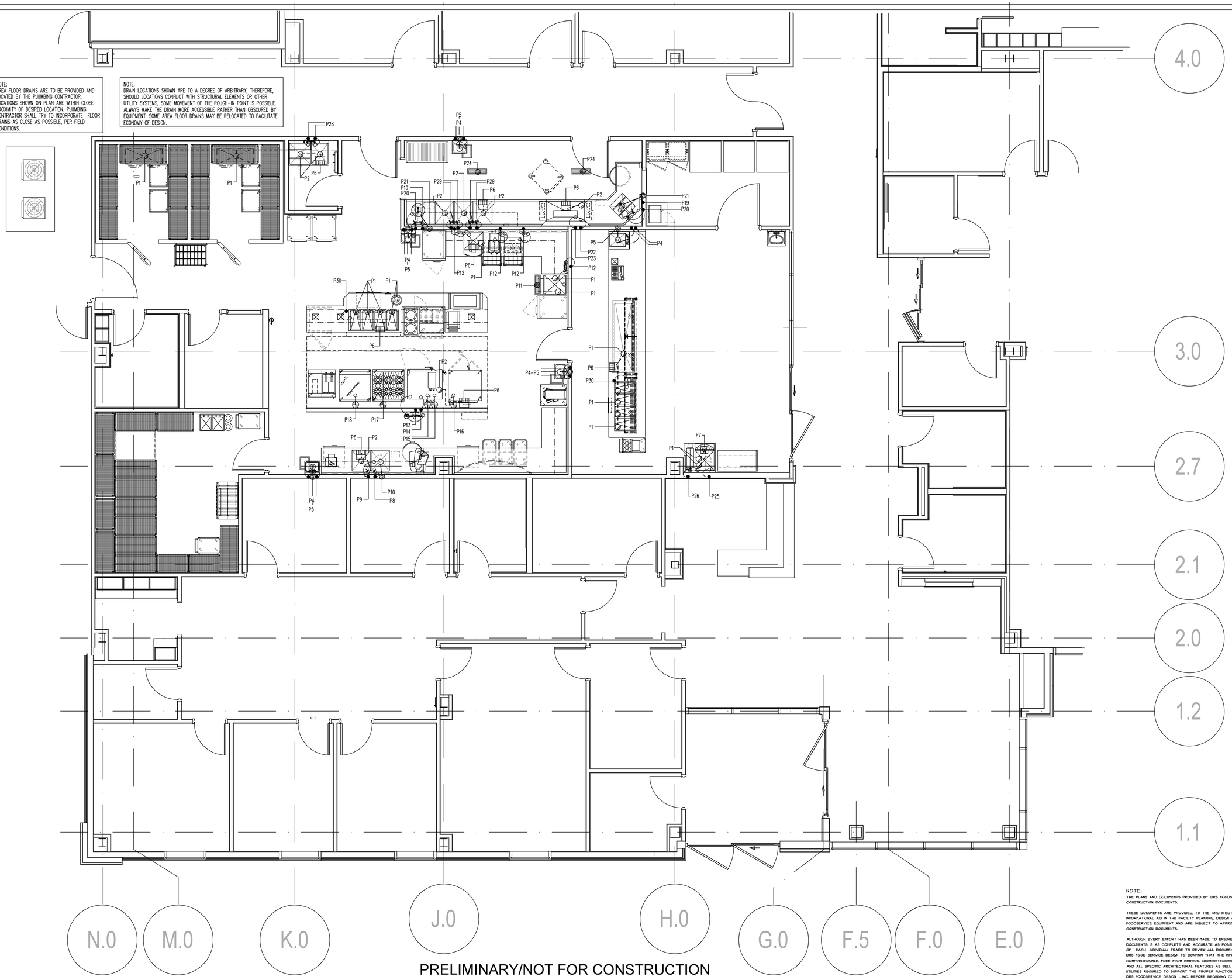
FS-1.1

SHEET:

SCALE: 1/4"

NOTE:
AREA FLOOR DRAINS ARE TO BE PROVIDED AND LOCATED BY THE PLUMBING CONTRACTOR. LOCATIONS SHOWN ON PLAN ARE WITHIN CLOSE PROXIMITY OF DESIRED LOCATION. PLUMBING CONTRACTOR SHALL TRY TO INCORPORATE FLOOR DRAINS AS CLOSE AS POSSIBLE, PER FIELD CONDITIONS.

NOTE:
DRAIN LOCATIONS SHOWN ARE TO A DEGREE OF ARBITRARY, THEREFORE, SHOULD LOCATIONS CONFLICT WITH STRUCTURAL ELEMENTS OR OTHER UTILITY SYSTEMS, SOME MOVEMENT OF THE ROUGH-IN POINT IS POSSIBLE. ALWAYS MAKE THE DRAIN MORE ACCESSIBLE RATHER THAN OBSCURED BY EQUIPMENT. SOME AREA FLOOR DRAINS MAY BE RELOCATED TO FACILITATE ECONOMY OF DESIGN.



PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DRS EST. 2002 DESIGN

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:
EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075

DATE: 02/12/2026

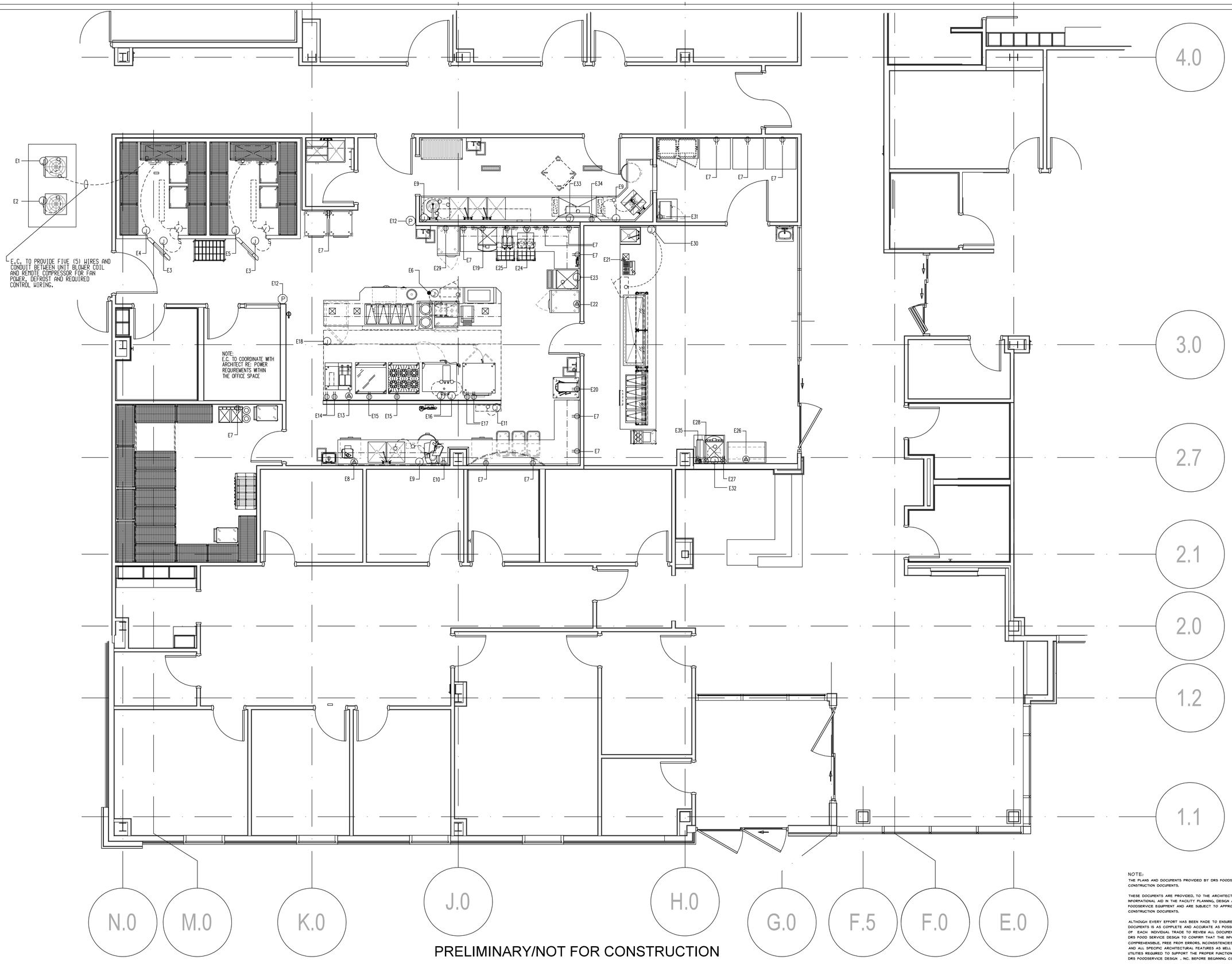
PLUMBING PLAN

TITLE:

FS-1.2

SHEET:

SCALE: 1/4"



PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DRS DESIGN EST. 2005

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENT'S WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:

EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075

DATE: 02/12/2026

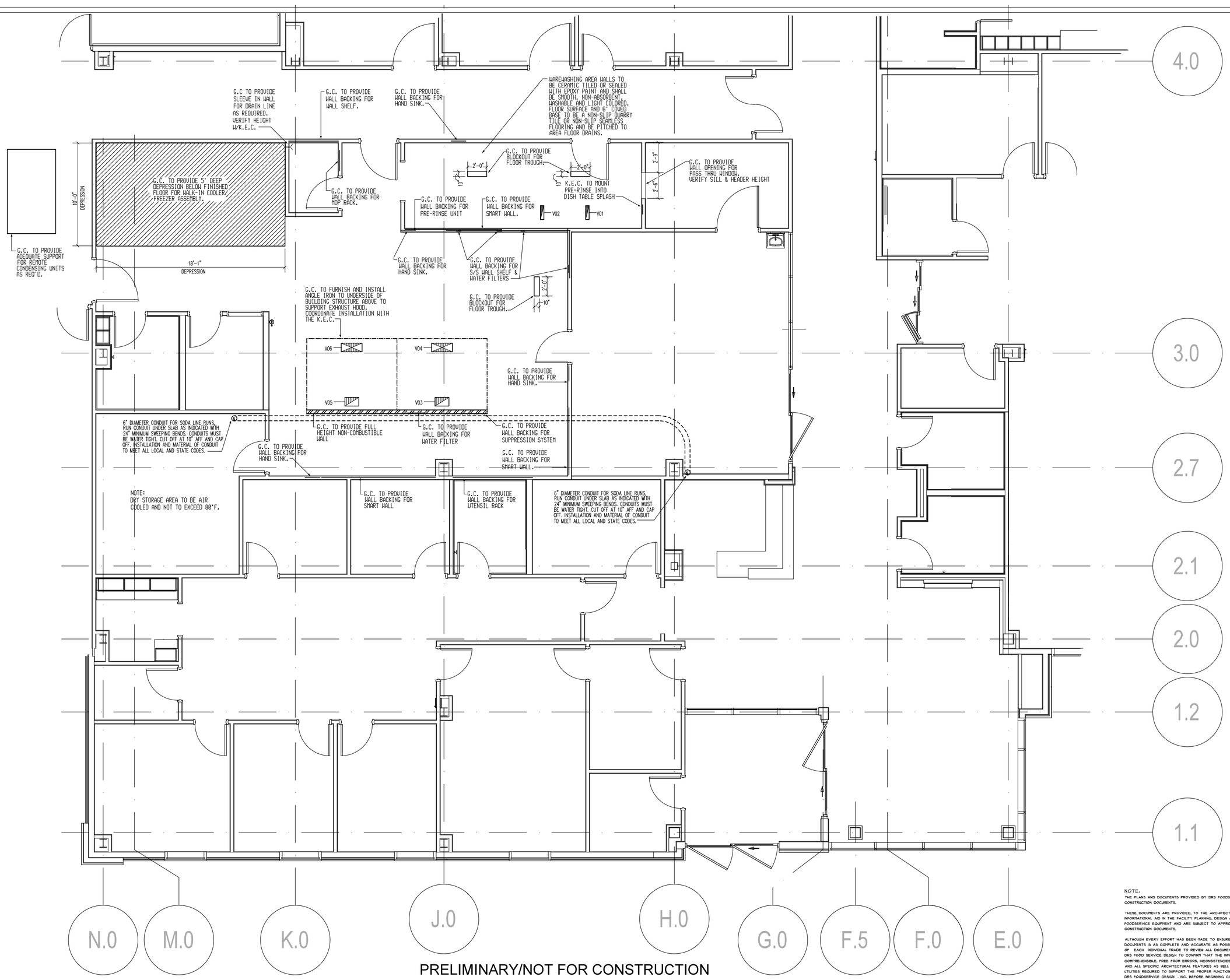
ELECTRICAL PLAN

TITLE:

FS-1.3

SHEET:

SCALE: 1/4"



PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DESIGN
DRS
EST. 2002
DESIGN

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

PROJECT NAME:

DRAWN BY:	RS
CHECKED BY:	RP

REVISION NO.	DATE:
---	---

PLUMBING CONNECTIONS SCHEDULE

NUMBER	SIZE	DESCRIPTION	LOCATION	A.F.F.	SERVICE TO	ITEM NO.	REMARKS
P1	1"	INDIRECT WASTE	–	–	AIR GAP DRAIN	–	–
P2	2"	INDIRECT WASTE	–	–	AIR GAP DRAIN	–	–
P3	1/2"	HOT & COLD WATER	WALL	18"	FAUCET	–	–
P4	1/2"	HOT & COLD WATER	WALL	14"	HAND SINK	–	–
P5	1-1/2"	DIRECT WASTE	WALL	20"	HAND SINK	–	PC TO DETERMINE DRAIN HEIGHT
P6	FLOOR SINK		–	–	–	–	–
P7	FLOOR DRAIN		–	–	–	–	–
P8	1/2"	HOT WATER	WALL	12"	FAUCET	–	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P9	3/4"	COLD WATER	WALL	12"	FAUCET/DISPOSER	33	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P10	2"	DIRECT WASTE	WALL	14"	DISPOSER W/CONTROL	33	P.C. TO BY-PASS GREASE TRAP
P11	3"	DIRECT WASTE	FLOOR	–	S/S FLOOR TROUGH W/GRATE	67	–
P12	1/2"	COLD WATER	WALL	72"	WATER FILTER ASSEMBLY	72	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P13	2) 3/4"	COLD WATER	WALL	18"	DOUBLE COMBI OVEN	45	P.C. TO BRANCH TO COMBI OVEN THRU WATER FILTER ASSEMBLY
P14	2) 3/4"	COLD WATER	WALL	18"	DOUBLE COMBI OVEN	45	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P15	3/4"	GAS @ 128,000 BTU	WALL	18" & 30"	DOUBLE COMBI OVEN	45	P.C. TO BRANCH TO CONNECTION AS REQUIRED & PROVIDE QUICK DISCONNECT
P16	3/4"	GAS @ 120,000 BTU	WALL	18" & 30"	DOUBLE CONVECTION OVEN	46	P.C. TO BRANCH TO CONNECTION AS REQUIRED & PROVIDE QUICK DISCONNECT
P17	3/4"	GAS @ 236,000 BTU	WALL	18"	6 BURNER RANGE W/OVEN	43	P.C. TO BRANCH TO CONNECTION AS REQUIRED & PROVIDE QUICK DISCONNECT
P18	1-1/4"	GAS @ 84,000 BTU	WALL	18"	GRIDDLE W/THERMOSTAT	42	P.C. TO BRANCH TO CONNECTION AS REQUIRED & PROVIDE QUICK DISCONNECT
P19	1/2"	HOT WATER	WALL	12"	PRE-RINSE	102	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P20	3/4"	COLD WATER	WALL	12"	PRE-RINSE/DISPOSER	102/103	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P21	2"	DIRECT WASTE	WALL	14"	DISPOSER W/CONTROL	103	P.C. TO BY-PASS GREASE TRAP
P22	1/2"	HOT WATER @ 110 DEG. MINIMUM	WALL	18"	DISH MACHINE W/BOOSTER HEATER	106	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P23	1/2"	COLD WATER	WALL	12"	DRAIN TEMPERING KIT	106	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P24	3"	DIRECT WASTE	FLOOR	–	S/S FLOOR TROUGH W/GRATE	104	–
P25	1/2"	COLD WATER	WALL	18"	AMBIENT CARBONATOR	117	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P26	1/2"	COLD WATER	WALL	18"	CUBE ICE MAKER/FILTER	113/116	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P27	–	SPARE NUMBER	–	–	–	–	–
P28	1/2"	HOT & COLD WATER	WALL	36"	MOP SINK W/HOSE BIBB	17	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P29	3/4"	HOT & COLD WATER	WALL	14"	3-COMP/CLEAN DISH TABLE	107	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P30	1/2"	COLD WATER	FLOOR	STUB	SUPPLY	–	P.C. TO BRANCH TO CONNECTION AS REQUIRED

ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	LOCATION	A.F.F.	REMARKS
E1	JUNCT. BOX	REMOTE CONDENSER-COOLER	3	–	–	9.1	208	3	VERIFY	VERIFY	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E2	JUNCT. BOX	REMOTE CONDENSER-FREEZER	2	–	–	11.0	208	3	VERIFY	VERIFY	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E3	JUNCT. BOX	LIGHTS, DOOR HEATER, ALARM	4	–	–	10.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E4	JUNCT. BOX	HEAT TAPE	6	–	–	10.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E5	JUNCT. BOX	BLOWER COIL-COOLER	8	–	–	2.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E6	JUNCT. BOX	LOAD CENTER	58	–	–	–	–	–	FLOOR	STUB UP	REFER TO LOAD CENTER SCHEDULE #E-6
E7	DUPLEX	CONVENIENCE OUTLET	–	–	–	15.0	120	1	WALL	50"	–
E8	SINGLE	FOOD PROCESSOR	28	3.0	–	3.8	208/240	3	WALL	50"	–
E9	JUNCT. BOX	DISPOSER W/CONTROL	33/103	2.0	–	6.6	208	3	WALL	14"	E.C. TO WIRE THRU SWITCH & SOLENOID
E10	DUPLEX	SLICER	34	1/2	–	3.0	120	1	WALL	50"	–
E11	JUNCT. BOX	FIRE SUPPRESSION SYSTEM	36	–	–	16.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E12	PULL BOX	EMPTY OCTAGON BOX	–	–	–	–	–	–	WALL	48"	@ POINT OF EGRESS PER LOCAL CODES
E13	SINGLE	FRYER/FILTER ASSEMBLY	38	–	17.0	48.0	208	1	WALL	18"	–
E14	DUPLEX	DUMP STATION/HEAT LAMP	38	–	–	15.0	120	1	WALL	18"	–
E15	DUPLEX	CONVENIENCE OUTLET	42	–	–	15.0	120	1	WALL	18"	–
E16	JUNCT. BOX	DOUBLE COMBI OVEN (2 CONN)	45	–	1.0	4.8/4.2	208/240	3	WALL	20" & 36"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E17	DUPLEX	DOUBLE CONVECTION OVEN (2 CONN)	46	–	–	15.0	120	1	WALL	20" & 36"	–
E18	JUNCT. BOX	EXHAUST HOOD	47	–	–	16.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E19	DUPLEX	ICE/WATER DISPENSER	80	–	–	8.5	120	1	WALL	50"	–
E20	DUPLEX	20 QT. MIXER	64	1/2	–	6.0	120	1	WALL	24"	–
E21	EMPTY CONDUIT	DATA/COMMUNICATIONS POINT	–	–	–	–	–	–	VERIFY	VERIFY	PER OWNER SUPPLIED EQUIPMENT
E22	SINGLE	1 DOOR HOT BOX	66	–	–	6.0	208/240	1	WALL	76"	–
E23	JUNCT. BOX	ICE MAKER	71	–	–	9.1	120	1	WALL	66"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E24	SINGLE	COFFEE MAKER	74	–	–	30.0	208	1	WALL	50"	E.C. TO VERIFY LOAD REQUIREMENTS W/VENDOR SUPPLIED EQUIPMENT
E25	DUPLEX	ICED TEA BREWER	75	–	–	16.0	120	1	WALL	50"	E.C. TO VERIFY LOAD REQUIREMENTS W/VENDOR SUPPLIED EQUIPMENT
E26	SINGLE	UPRIGHT BEVERAGE CASE	98	–	2.03	10.8	208-240	1	WALL	18"	–
E27	DUPLEX	AMBIENT CARBONATOR	117	–	–	15.0	120	1	WALL	18"	E.C. TO VERIFY LOAD W/VENDOR SUPPLIED EQUIPMENT
E28	DUPLEX	ICE/SODA DISPENSER	114	–	–	15.0	120	1	WALL	50"	E.C. TO VERIFY LOAD W/OWNER SUPPLIED EQUIPMENT
E29	DUPLEX	REACH-IN REFRIGERATOR	83	–	–	4.2	120	1	WALL	76"	–
E30	JUNCT. BOX	LOAD CENTER	85	–	–	–	–	–	WALL	10"	REFER TO LOAD CENTER SCHEDULE #E-30
E31	DUPLEX	MICROWAVE OVEN	97	–	–	14.0	120	1	WALL	50"	–
E32	SPARE NUMBER	–	–	–	–	–	–	–	–	–	–
E33	JUNCT. BOX	DISH MACHINE	106	–	–	45.1	480	3	WALL	50"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E34	DUPLEX	TEMPERING KIT	106	–	–	15.0	120	1	WALL	24"	–
E35	DUPLEX-VERIFY	DRAIN PUMP (SUPPLIED BY GC)	–	–	–	VERIFY	VERIFY	VERIFY	WALL	18"	E.C. TO COORDINATE WITH G.C. RE PUMP POWER

VENTILATION CONNECTIONS SCHEDULE

ITEM	QTY	CONNECTION	SIZE	CFM	SP	REMARKS
V01	1	EXHAUST	4" X 16"	200	–	DISH MACHINE LOAD END
V02	1	EXHAUST	4" X 16"	200	–	DISH MACHINE UNLOAD END
V03	1	EXHAUST	10" X 13"	1630	0.75"	MAIN EXHAUST HOOD
V04	1	SUPPLY	12" X 24"	1304	0.20"	MAIN EXHAUST HOOD
V05	1	EXHAUST	10" X 17"	2174	0.75"	MAIN EXHAUST HOOD
V06	1	SUPPLY	12" X 28"	1739	0.20"	MAIN EXHAUST HOOD

COOKS TABLE LOAD CENTER SCHEDULE

CONNECTION E-6

ITEM	QTY	DESCRIPTION	VOLTAGE	HP	KW	AMPS
–	2	CONVENIENCE OUTLET	120/1	–	–	15.0
14	1	BASE ACTIVATOR	208-230/1	–	–	24.9
48	1	CONVEYOR TOASTER	208/1	–	2.23	10.7
52	1	MICROWAVE OVEN	120/1	–	1.55	14.0
54	1	4-WELL HOT FOOD UNIT	208/240/3	–	1.24/1.65	–
57	1	U/C FREEZER	120/1	1/5	–	4.5
61	1	DROP-IN SOUP WELL	120/1	–	.825	–
62	1	BUILT-IN ROLL WARMER	120/1	–	0.45	3.8
59	3	PRINTER	120/1	–	–	15.0
60	1	HEAT LAMP	120/1	–	.95	7.9
51	1	REFRIGERATED SANDWICH UNIT	120/1	0.3	–	4.0

SERVING COUNTER LOAD CENTER SCHEDULE

CONNECTION E-30

ITEM	QTY	DESCRIPTION	VOLTAGE	HP	KW	AMPS
–	2	CONVENIENCE OUTLET	120/1	–	–	15.0
86	1	4-WELL HOT FOOD UNIT	208/240/3	–	1.24/1.65	–
87	1	SINGLE TIER FOOD SHIELD W/LIGHTS/HEAT LAMP	120/1	–	–	18.0
88	1	DROP-IN COLD PAN	120/1	–	–	4.6
91	1	TWO TIER FOOD SHIELD W/LIGHTS	120/1	–	–	10.0
92	1	POS SYSTEM-DEDICATED CIRCUIT	120/1	–	–	15.0
59	1	PRINTER	120/1	–	–	15.0

PRELIMINARY/NOT FOR CONSTRUCTION

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

FOODSERVICE DRS EST. 2002 DESIGN
750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions
www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:
EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075
DATE: 02/12/2026

MECHANICAL SCHEDULE

TITLE:
FS-1.5

SHEET:

SCALE: 1/4"

PLUMBING NOTES

(IF APPLICABLE)

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS OF FOODSERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING UTILITIES WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

PLUMBING PLAN SHOWS OUTLET AND CONNECTION LOCATIONS WITH CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR. (K.E.C.)

FINAL PLUMBING CONNECTIONS INCLUDING MOUNTING OF DRAINS, FAUCETS AND PIPING FROM POINT-OF-CONNECTION ON EQUIPMENT TO BUILDING PLUMBING SYSTEM AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

ALL PLUMBING MATERIALS, INCLUDING PIPE, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, GAUGES, UNIONS AND INSULATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS AND PLUMBING ACCESSORIES PROVIDED LOOSE BY THE K.E.C.

UTILITIES (GAS, WATER, STEAM) SHALL BE CONCEALED IN WALLS AND STUBBED-OUT OF FINISHED WALLS 6". PIPING STUBBED OUT OF THE FLOOR OR WALL AND RUN EXPOSED SHALL NOT BE ACCEPTABLE AND IS IN VIOLATION OF HEALTH DEPARTMENT CODES. ALL PENETRATIONS SHALL BE SEALED IN WATER TIGHT.

ALL EXPOSED PIPING SHALL BE CHROME PLATED TO SATISFY LOCAL HEALTH DEPARTMENT.

PLUMBING COMPONENTS, PROVIDED BY PLUMBING CONTRACTOR INCLUDING VALVES, TRAPS, SHUT-OFFS, GAUGES AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY WITH THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

WATER PRESSURE IN EQUIPMENT AREA SHOULD NOT EXCEED 50 PSI IN BOTH HOT AND COLD WATER SUPPLY LINES. THE WATER PRESSURE TO DISHWASHERS, GLASSWASHERS AND BOOSTER HEATERS SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES PROVIDED BY PLUMBING CONTRACTOR MUST MEET EQUIPMENT MANUFACTURER'S FLOW RECOMMENDATIONS.

FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR WITH OR WITHOUT GRATE COVER AS INDICATED ON PLAN.

ALL LINES SHALL BE FLUSHED FREE OF FOREIGN MATTER AND LINE STRAINERS AND FAUCET AERATORS CLEANED PRIOR TO MAKE-UP OF FINAL UTILITY CONNECTIONS BY PLUMBING CONTRACTOR.

GREASE TRAPS SHALL BE PROVIDED BY PLUMBING CONTRACTOR AND SHALL BE RECESS-MOUNTED, FLUSH WITH TOP OF FINISHED FLOOR. GREASE TRAPS SHALL NOT BE LOCATED BENEATH ANY ITEM OF FOODSERVICE EQUIPMENT AND THE REMOVAL OF COVER SHALL NOT INTERFERE WITH THE OPERATION OF ANY FOODSERVICE EQUIPMENT ITEMS.

ALL DRAIN LINES FOR DISPOSERS SHALL BY-PASS GREASE TRAPS.

HOT WATER TEMPERATURE TO BOOSTER HEATER, DISHMACHINE AND GLASSWASHER MUST BE 140°FAHRENHEIT. HOT WATER LINE FROM BOOSTER HEATER TO GLASSWASHER/ DISHWASHER SHALL BE PROVIDED WITH WATER HAMMER ARRESTOR (ASSE-1010 STD) AT CONNECTION TO DISHWASHER AND SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

DRAIN LINES FROM EVAPORATOR COILS (QUICK-FALL TYPE) SHALL BE TRAPPED OUTSIDE OF WALK-IN FREEZER/COOLER ASSEMBLIES AND EXTENDED OVER BUILDING DRAIN BY PLUMBING CONTRACTOR. ALL PENETRATIONS IN WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE MADE BY THE K.E.C. REFER TO BLOWER COIL DETAIL.

TRENCH-TYPE DRAIN TROUGH SHALL BE FURNISHED BY THE K.E.C. TO THE GENERAL FOR INSTALLATION. PLUMBING CONTRACTOR SHALL PROVIDE DRAIN CONNECTIONS AS SHOWN ON DETAILS, IF PROVIDED.

GAS MAIN SHALL BE PROVIDED WITH A READILY ACCESSIBLE MANUAL SHUT-OFF VALVE BY PLUMBING CONTRACTOR. LOCATION OF VALVE TO BE COORDINATED WITH FOOD-SERVICE CONSULTANT. A LOOPED GAS SERVICE IS RECOMMENDED TO PROVIDE FOR BALANCED FUEL DISTRIBUTION. SIZE OF GAS LINE TO BE DETERMINED BY ARCHITECT/ENGINEER. SEE PLUMBING SCHEDULE FOR BTU/HOUR REQUIREMENTS.

PLUMBING CONTRACTOR SHALL PROVIDE MANUAL GAS SHUT-OFF DEVICES AT EACH INDIVIDUAL PIECE OF EQUIPMENT NOT BATTERIED TOGETHER. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED WITH FOODSERVICE CONSULTANT. GAS PRESSURE REDUCING VALVES REQUIRED FOR EACH INDIVIDUAL PIECE OF COOKING EQUIPMENT SHALL BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR FOR INSTALLATION BY PLUMBING CONTRACTOR.

FOR VENTILATION FIRE SUPRESSION SYSTEM WITH GAS HEATED COOKING EQUIPMENT, PLUMBING CONTRACTOR SHALL INSTALL MECHANICAL FUEL SHUT-OFF VALVE FURNISHED BY K.E.C. IN GAS LINES SERVING COOKING EQUIPMENT.
LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED WITH FOODSERVICE CONSULTANT. K.E.C. SHALL PROVIDE REMOTE MANUAL PULL STATION AND MICRO-SWITCH GAS SHUT-OFF VALVE SHALL BE MECHANICALLY ACTIVATED IN CASE OF FIRE BY MECHANICAL/PNEUMATIC MECHANISM. ANY AND ALL ELECTRICAL INTERCONNECTING REQUIRED FOR FAN CONTROL AND/OR ALARM SYSTEMS SHALL BE BY ELECTRICAL CONTRACTOR

PLUMBING SYMBOLS

COLD WATER	CW	●
HOT WATER	HW	●
COOLING TOWER WATER	CTW	●
COOLING TOWER WATER RETURN	CTWR	●
WASTE	W	◎
INDIRECT WASTE	IW	◴
HUB DRAIN/AIR GAP DRAIN	HD/AGD	○
FLOOR DRAIN	FD	◎
FUNNEL-TYPE FLOOR DRAIN	FFD	◎
FLOOR SINK -1/2 GRATE	FS	▭
STEAM SUPPLY	SS	◎
CONDENSATE RETURN	CR	○
GAS SUPPLY	G	⊕
POINT OF CONNECTION ON EQUIPMENT		◠

ELECTRICAL SYMBOLS

SINGLE RECEPTACLE, NEMA 5-20R	SR	◑
DUPLEX RECEPTACLE, NEMA 5-20R	DR	◑
SINGLE RECEPTACLE, 208 OR 480	SR	△
FLOOR RECEPTACLE	FR	◉
JUNCTION BOX	JB	(J)
DROP CORD OR CONDUIT	DC	(D)
CONDUIT STUB	C	●
SWITCH	S	S
INCANDESCENT LIGHT		✳
FLUORESCENT LIGHT		▭
EQUIPMENT TERMINAL PANEL		▨
BUILDING POWER PANEL		▬
POINT OF CONNECTION ON EQUIPMENT		◠
COMMUNICATIONS OUTLET		▲
VAPOR-PROOF LIGHTS		⌖
PULL BOX-FIRE SUPPRESSION		(P)

SPECIAL CONDITIONS SYMBOLS

SLEEVE	○
SLAB DEPRESSION	▨
BLOCKOUT	▭
RAISED CURB	▦
WALL OPENING	▭
LOW PARTITION	▥
WALL BACKING	—

ELECTRICAL NOTES

(IF APPLICABLE)

ELECTRICAL SYSTEM IS DESIGNED FOR 120/208/240 VOLT, 3 PHASE, 60 HERTZ SYSTEM.

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS FOR FOOD SERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL ELECTRICAL UTILITIES (CONVENIENCE RECEPTACLES, TELEPHONE JACKS, INTERCOM JACKS, ETC.) WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

ELECTRICAL PLAN SHOWS OUTLETS AND CONNECTION WITH CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS PROVIDED BY THE K.E.C.

FINAL ELECTRICAL CONNECTIONS INCLUDING WIRING FROM POINT-OF CONNECTION ON EQUIPMENT TO BUILDING ELECTRICAL SYSTEM AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

ALL ELECTRICAL MATERIALS, INCLUDING WIRE, CONDUIT, OVERLOAD PROTECTION, MAIN SWITCHES, SAFETY CUT-OUTS, FUSE BOXES, SHUNT-STRIP BREAKERS, DISCONNECT SWITCHES AND CONTROLS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

UTILITIES SHALL BE CONCEALED IN WALLS AND STUBBED-OUT OF WALLS. WIRING STUBBED OUT OF FLOOR AND RUN EXPOSED ON THE FACE OF THE WALL SHALL NOT BE ACCEPTABLE.

ELECTRICAL COMPONENTS, INCLUDING MAIN SWITCHES, FUSE BOXES, TERMINAL PANELS, DISCONNECT SWITCHES CONDUIT AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY WITH THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

AMPERAGES INDICATED ARE TOTAL FOR EACH UNIT AND NOT IN ADDITION TO ANY HP AND/OR KW RATINGS SHOWN.

WHERE CALLED FOR, THE K.E.C. SHALL FURNISH CORDS AND PLUGS FOR INSTALLATION BY ELECTRICAL CONTRACTOR. NEMA NUMBERS SHOWN INDICATE THE CAP CONFIGURATION TO BE PROVIDED FOR THE EQUIPMENT. ANY DIRECT CONNECTIONS SHALL BE PROVIDED BT THE E.C.

ALL LIGHT FIXTURES IN FOOD STORAGE, PREPARATION, SERVICE OR DISPLAY FACILITIES, AS WELL AS UTENSIL CLEANING AND STORAGE AREAS SHALL HAVE SHIELDING OVER BULBS.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE WALK-IN FREEZER/COOLER ASSEMBLIES COMPLETE WITH OUTLET BOXES, DOOR HEATERS AND ALL SYSTEM COMPONENTS PRE-WIRED TO A SINGLE POINT OF CONNECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTING CONDUIT AND WIRING AND MAKE FINAL CONNECTIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER TO AND INTERCONNECTION BETWEEN EVAPORATOR COIL, TIME CLOCK, TEMPERATURE CONTROL DEVICE, AND CONDENSING UNITS, FOR WALK-IN FREEZER/COOLER ASSEMBLIES FURNISHED BY THE K.E.C.

DRAIN LINE FROM FREEZER COIL SHALL BE WRAPPED WITH HEAT CABLE, TAPED AND INSULATED TO PREVENT FREEZING OF CONDENSATE IN THE LINE, BY ELECTRICAL CONTRACTOR.

WALK-IN FREEZER/COOLER VAPOR-PROOF LIGHT FIXTURES ARE SHIPPED LOOSE BY K.E.C. FOR FIELD INSTALLATION AND INTERWIRING AS REQUIRED BY ELECTRICAL CONTRACTOR.

ALL PENETRATIONS INTO WALK-IN FREEZER/COOLERS SHALL BE MADE BY THE K.E.C.

ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE INTO WALK-IN FREEZER/ COOLER ASSEMBLIES, REFRIGERATORS AND EXHAUST VENTILATORS WITH METHODS AND MATERIALS AS APPROVED BY EQUIPMENT MANUFACTURER.

THE K.E.C. SHALL PROVIDE EXHAUST VENTILATOR ASSEMBLIES COMPLETE WITH CONTROL PANEL, WASH-DOWN PANEL, LIGHTS, AND FIRE SUPPRESSION SYSTEM. E.C. SHALL PROVIDE ALL POWER TO AND INTERCONNECTIONS BETWEEN VENTILATOR, CONTROL PANEL, WASH-DOWN PANEL LIGHTS, EXHAUST AND SUPPLY FAN, MAGNETIC STARTERS AND ALL MISCELLANEOUS COMPONENTS. SEE PLAN AND VENTILATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

FOR VENTILATOR FIRE SUPPRESSION SYSTEM WITH ELECTRICALLY HEATED COOKING EQUIPMENT, K.E.C. SHALL PROVIDE REMOTE MANUAL PULL STATION AND MICRO SWITCH. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL CONTACTORS AND/OR SHUNT TRIP BREAKERS AND ALL INTERCONNECTION CONDUIT & WIRING FOR SHUT-OFF OF ALL ELECTRICALLY HEATED COOKING EQUIPMENT. CONTACTOR FOR SHUNT TRIP RELAYS SHALL ACTIVATED IN CASE OF FIRE BY MICRO-SWITCH AS FURNISHED BY K.E.C.

FIRE PROTECTION SYSTEM REMOTE CABLE PULL BOX SHALL BE RECESS MOUNTED OCTAGONAL J-BOX WITH SCREW HOLES AT 2- AND 8'-0" CLOCK WITH 1/2" EMT CONDUIT OUT OF TOP, CONCEALED IN WALL TO 6" ABOVE FINISHED CEILING, BY ELECTRICAL CONTRACTOR.

ELECTRICAL RECEPTACLES SHALL BE INSTALLED WITH THEIR LONG DIMENSION RUN HORIZONTALLY.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND POWER AND CONTROL WIRING BETWEEN REMOTE LOW TEMPERATURE EVAPORATORS AND REMOTE COMPRESSOR RACK. REFER TO DRAWINGS FOR DETAILS.

SPECIAL CONDITIONS NOTES

(IF APPLICABLE)

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTER LINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

REFER TO ARCHITECTURAL/ENGINEERING DRAWINGS FOR ACTUAL CONSTRUCTION DIMENSIONS, LOCATION, THICKNESS AND FINISH OF PARTITIONS, FURRING AND DOOR SIZES AND LOCATIONS NOT INDICATED ON THE SPECIAL CONDITIONS PLAN.

CEILINGS SHALL BE SMOOTH, NON-ABSORBENT, WASHABLE AND LIGHT COLORED, BY GENERAL CONTRACTOR.

GENERAL CONTRACTOR TO FURNISH AND INSTALL ANGLE IRON TO UNDERSIDE OF BUILDING STRUCTURE ABOVE TO SUPPORT EXHAUST VENTILATOR. COORDINATE INSTALLATION WITH THE K.E.C.

DEPRESSIONS FOR WALK-IN FREEZER/COOLER ASSEMBLIES AND/OR FLOOR TROUGHS SHALL BE SMOOTH AND TRANSIT-LEVEL. REFER TO PLAN FOR SIZES, DEPTHS AND ADDITIONAL INFORMATION.

CONCRETE AND MASONRY BASES AND CURBS SHALL BE SMOOTH AND TRANSIT-LEVEL. ALL EXPOSED SURFACES SHALL BE FINISHED THE SAME AS FINISHED FLOOR. REFER TO PLAN FOR SIZES AND ADDITIONAL INFORMATION.

ALL BACKING MATERIALS SUITABLE FOR WALL-MOUNTED EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR AS DETAILED.

ALL STRUCTURE SUPPORT MATERIALS AND BRACING SUITABLE FOR CEILING HUNG EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE INSTALLATION WITH THE K.E.C.

ALL RACKS AND/OR PLATFORMS FOR ROOF-MOUNTED EQUIPMENT AND COMPRESSOR RACKS SHALL BE PROVIDED BY GENERAL CONTRACTOR.

ALL WALL, FLOOR AND/OR ROOF SLEEVES SHALL BE PROVIDED BY GENERAL CONTRACTOR.

K.E.C. SHALL UNDER NO CONDITIONS SET-IN-PLACE OR INSTALL ANY PIECE OF EQUIPMENT PRIOR TO TILE FLOORS BEING ACID WASHED AND RINSED.

WHERE QUARRY TILE FLOORS ARE EXTENDED INTO WALK-IN FREEZER/COOLER ASSEMBLIES, GENERAL CONTRACTOR SHALL PROTECT ALL EXPOSED METAL SURFACES AND REMOVE DOORS PRIOR TO ACID WASHING OF FLOORS AND PROVIDE POWER VENTILATION TO REMOVE FUMES.

GENERAL CONTRACTOR SHALL PROVIDE WALL OPENINGS TO ACCOMODATE ITEMS OF PASS-THRU AND CONVEYOR EQUIPMENT AS DETAILED ON PLAN. REFER TO PLAN FOR ADDITIONAL INFORMATION.

16 GAUGE STAINLESS STEEL CORNER GUARDS SHALL BE FURNISHED AND INSTALLED BY K.E.C. AS PER PLANS AND DETAILS.

VENTILIATION NOTES

(IF APPLICABLE)

VENTILATION DUCTWORK, EXHAUST FANS, SUPPLY FANS, INTERLOCKS, MOTOR STARTERS, DISCONNECT SWITCHES, FAN CONTROL, SWITCHES, INTERCONNECTING WIRING, CONDUIT, & FINAL CONNECTION (TO & FROM) VENTILATORS &/OR DISHWASHER CONDENSATE HOODS SHALL BE BY H.V.A.C./MECHANICAL CONTRACTOR.

DISHWASHER CONDENSATE DUCT & EXHAUST VENTILATOR SUPPLY & EXHAUST, DUCT SIZES & ALL OTHER VENTILATION SPECIFICATIONS FROM THE DUCT COLLAR ON SHALL BE DETERMINED BY ARCHITECT/ENGINEER & ALL NECESSARY MATERIAL & LABOR PROVIDED BY H.V.A.C./MECHANICAL CONTRACTOR.

VENTILIATION CFM, STATIC PRESSURE & DUCT SIZES INDICATED ON THESE PLANS ARE THE SPECIFIED EQUIPMENT MINIMUM REQUIREMENTS.

THE FOLLOWING MINIMUM GENERAL FOOD SERVICE VENTILATION REQUIREMENTS ARE RECOMMENDED:

A. COOKING PREPARATION, POTWASHING & DISHWASHING AREA: 45-60 AIR CHANGES PER HOUR.

B. STORAGE AREAS: 2-3 AIR CHANGES PER HOUR, 70° F MAXIMUM AMBIENT TEMPERATURE.

C. OFFICE AREAS: 4 AIR CHANGES PER HOUR.

D. AIR-COOLED REFRIGERATION CONDENSING UNITS, 1000 CFM PER HORSEPOWER SUPPLY & EXHAUST, 90° F MAXIMUM AMBIENT TEMPERATURE. ALL AREAS MUST BE VENTILATED AS REQUIRED BY APPLICABLE GOVERNING CODES.

MAKE-UP ARE SYSTEM SHALL BE DESIGNED TO PROVIDE 10% - 20% NEGATIVE AIR PRESSURE IN KITCHEN AREAS TO CONTAIN SMOKE AND ODORS.

ADEQUATE VENTILATION (24 HOURS) IS REQUIRED FOR SELF-CONTAINED REFRIGERATION UNITS IN ENCLOSED AREAS, SUCH AS, ICE MAKERS, WALK-IN COOLER ASSEMBLIES, & BEVERAGE SYSTEMS, TO PREVENT OVERHEATING & COMPRESSOR FAILURE.

REFRIGERATION NOTES

(IF APPLICABLE)

ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND JURISDICTIONAL AUTHORITIES.

SLEEVES AND CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND FURNISHED AS A GUIDE. IT WILL BE NECESSARY TO COPE WITH FIELD AND CONSTRUCTION CONDITIONS. CONDUIT SYSTEM SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL BE ROUTED TO PROVIDE THE SHORTEST RUNS POSSIBLE.

ALL REFRIGERATOR COPPER SHALL BE REFRIGERATION GRADE TUBING ONLY. (ALL REFRIGERATION DRAIN PIPING SHALL BE GRADE ACR OR TYPE "L" SEAMLESS). JOINTS FOR ALL HARD COPPER AND SOFT COPPER TO BE SWEAT-TYPE FITTINGS. FOR STEEL TO COPPER CONNECTION USE SILVER SOLDER; COPPER TO COPPER USE SILVER BEARING ALLOY SOLDER SUCH AS EASY-FLO 45.

SUCTION LINES SHALL BE INSULATED WITH APPROVED INSULATING MATERIAL. LIQUID AND SUCTION LINES SHALL NOT BE CLAMPED OR SOLDERED TOGETHER DUE TO EXPANSION.

MECHANICAL BENDS IN TUBING SHALL NOT BE ACCEPTABLE.

ALL SUCTION LINES WITH A VERTICAL RISE OF EIGHT FEET OR MORE SHALL HAVE P-TRAP FOR OIL RETURN.

REFRIGERATION LINES TO WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE RUN ABOVE CEILINGS AND DROPPED AT POINT OF CONNECTION TO EVAPORATOR COIL.

KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) SHALL PROVIDE AND INSTALL ALL REFRIGERATION SUCTION AND LIQUID LINES FROM REMOTE CONDENSING UNITS TO UNIT EVAPORATORS, LINE HANGERS, ESCUTCHEON PLATES, VALVES, SIGHT GLASSES, PRESSURE CONTROLS, FILTER DRYERS, AND HAND VALVES.

K.E.C. SHALL PROVIDE FACTORY MOUNTED EXPANSION VALVES AND TEMPERATURE CONTROLS FOR EACH SYSTEM AS SPECIFIED.

AFTER REFRIGERANT CONNECTIONS HAVE BEEN COMPLETED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.

ALL COMPLETED REFRIGERATION SYSTEMS MUST BE EVACUATED TO 300 MICRONS OR LESS WITH VACUUM PUMP.

REFRIGERATION SYMBOLS

COMPRESSOR OR COIL	▨
REFRIGERATION LINE AND CONNECTION	⌖
REFRIGERATION LINE SLEEVE WALL OR CEILING	○

VENTILATION SYMBOLS

EXHAUST DUCT	▤
SUPPLY DUCT	▤
STATIC PRESSURE	SP
CUBIC FEET/MINUTE	CFM

FOODSERVICE DESIGN
DRS EST. 2002

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

PROJECT NAME:

EXALT HEALTH PANAMA CITY
PANAMA CITY BEACH, FL

DRAWN BY:	RS
CHECKED BY:	RP
REVISION NO.	DATE:
---	---

PROJ. NO.: 25075

DATE: 02/12/2026

MECHANICAL NOTES

TITLE:

FS-1.6

SHEET:

SCALE: 1/4"

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DRS FOOD SERVICE DESIGN TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

PRELIMINARY/NOT FOR CONSTRUCTION