BID DOCUMENTS

GULF COAST STATE COLLEGE

5230 US-98
PANAMA CITY, FL 32401

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PROJECT SCOPE

PROJECT IS A NEW 2-STORY COLLEGE NURSING AND SIMULATOR BUILDING THAT INCLUDES SITEWORK AND ASSOCIATED UTILITIES AND BUILDING SYSTEMS. STRUCTURE CONSISTS OF BEARING WALLS (ICF) AND STRUCTURAL STEEL FRAMING WITH COLD FORMED STEEL ROOF TRUSSES.

APPLICABLE CODES

2023 FLORIDA BUILDING CODE, BUILDING	8TH EDITION
2023 FLORIDA BUILDING CODE, ACCESSIBILITY	8TH EDITION
2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION	8TH EDITION
2023 FLORIDA BUILDING CODE, PLUMBING	8TH EDITION
2023 FLORIDA BUILDING CODE, MECHANICAL	8TH EDITION
2023 FLORIDA BUILDING CODE, FUEL GAS	8TH EDITION
2023 FLORIDA FIRE PREVENTION CODE: NFPA 1 & 101 (2021 ED)	8TH EDITION
2020 NFPA 70: NATIONAL ELECTRIC CODE	
BAY CODE OF ORDINANCES	

PRODUCT APPROVALS - FLORIDA

CATEGORY	SUB-CATEGORY	MANUFACTURER	PRODUCT	APPROVAL #
ROOFING	METAL ROOFING	PAC-CLAD PETERSEN	TITE-LOC PLUS	24423
PANEL WALLS	STOREFRONT	KAWNEER	IR521	47012
	STOREFRONT	KAWNEER	TRIFAB 451	14287
	CURTAINWALL	KAWNEER	1600 WALL SYSTEM 1 IR	5388.1
	SOFFITS	PAC-CLAD PETERSEN	FLUSH PANEL .032 ALUMINUM	23157
	SIDING	PAC-CLAD PETERSEN	FLUSH PANEL .032 ALUMINUM	23225
EXTERIOR DOORS	SWINGING DOOR ASSEMBLIES	KAWNEER	IR500 HW	8786.2
	SWINGING DOOR ASSEMBLIES	STEELCRAFT	H SERIES, OUTSWING, DOUBLE FLUSH	12400.2
	SWINGING DOOR ASSEMBLIES	STEELCRAFT	H SERIES, OUTSWING, SINGLE FLUSH	12400.4
	ROLL-UP DOOR ASSEMBLIES	CORNELL/COOKSON	ESD30 - THERMISER MAX INSULATED	17421

PROJECT TEAM

ARCHITECTURE: DAG ARCHITECTS
455 HARRISON AVENUE, SUITE I
PANAMA CITY, FL 32401
CONTACTS: OWEN GIPSON, PATRICK BOLDRICK
850.837.1671

CIVIL: DEWBERRY
203 ABERDEEN PARKWAY
PANAMA CITY, FL 32405
CONTACTS: MORGAN HURST
850.571.1182

LANDSCAPE: TULLO PLANNING GROUP
PO BOX 27601
PANAMA CITY BEACH, FL 32411
CONTACT NAME: GINA TULLO
850.527.0653

A/V: WALTHALL & ASSOCIATES
200 SWIFT CREEK DRIVE, SUITE G
CANTONMENT, FL 32533
CONTACTS: CHUCK WALTHALL
850.478.9002

STRUCTURAL: SOUTHEASTERN CONSULTING ENGINEERS, INC.
120 N. HWY 71
WEWAHITCHKA, FL 32465
CONTACTS: JACK HUSBAND, BRADEN BAUMGARDNER
850.639.3860

PLUMBING: WATFORD ENGINEERING
4452 CLINTON STREET
MARIANNA, FL 32446
CONTACTS: DAVID WATFORD, KEITH JOHNSON
850.526.3447

MECHANICAL: WATFORD ENGINEERING
4452 CLINTON STREET
MARIANNA, FL 32446
CONTACTS: DAVID WATFORD, KEITH JOHNSON
850.526.3447

ELECTRICAL: HG ENGINEERS
621 N TYNDALL PKWY
PANAMA CITY, FL 32404
CONTACTS: DAN WHITE, CHRISTIAN CASEY
850.243.6723

TELE/SEC/ACC: PREMIER ENGINEERING
2425 W. NINE MILE RD., SUITE 2
PENSACOLA, FL 32534
CONTACTS: GREG COOK, JOSH COOK
850.469.0405

INTERIOR DESIGN: HLG STUDIO
101 PEACHTREE ST NE #200
ATLANTA, GA 30309
CONTACTS: CHAD WILKEY, DEANNA HARRIS
404.760.7788

PROJECT LOCATION

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

COVER SHEET

G-001

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
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NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

INDEX OF DRAWINGS

G-002

CODE ANALYSIS

Applicable Codes and Ordinances

Florida Building Code (FBC), 8th Edition (2023)
Florida Fire Prevention Code, 8th Edition (2023)
Florida Plumbing Code, 8th Edition (2023)
Florida Mechanical Code, 8th Edition (2023)
Florida Fuel Gas Code, 8th Edition (2023)
National Electrical Code, NFPA 70, 2020 Edition
Florida Energy Code (FEC), 8th Edition (2023)
Florida Accessibility Code, 8th Edition (2023)

Occupancy Classification

Mixed Use, Non-separated Occupancies per 508.3
B - Business (304) Students above 12th Grade
A-3 - Assembly Lecture Halls , 13% of overall building square footage

Construction

Type: IIB, sprinklered (FBC Section 602.2), 2 Stories

Actual Building Floor Area:
1st Floor : 15,696 GSF
2nd Floor: 15,696 GSF
Total: 31,392 GSF

Allowable floor area and height (Most restrictive applies at unseparated mixed occupancies)
506.2.4 Mixed-occupancy, multistory building
Allowable Area per floor = 35,625
A3 Aa= 28500 =(9500x.75)= 35,625
B Aa = 69,000=(23,000x.75)= 86,250

Allowable Height - 75' max., 3 stories max. above grade plane

Fire Resistance Ratings (FBC Table 601, unless noted otherwise)

Primary structural frame	0
Bearing Walls	
Exterior	0
Interior	0
Nonbearing walls and partitions	
Exterior (FBC Table 602)	
X < 5 feet	1
5 ≤ X ≤ 10	1
10 ≤ X ≤ 30	0
X ≥ 30	0
Interior	0
Floor construction and associated secondary members	0
Roof construction and associated secondary members	0

Incidental Use Areas

FBC:
Furnace & Boilers Automatic sprinkler & Smoke resistant walls
*Educational Labs Automatic sprinkler & Smoke resistant walls
Electrical Rooms Refer to NFPA 70

Smoke resistant walls shall resist passage of smoke & doors shall have closers
*Note- Skills Labs on 1st floor and Student Success Lab on 2nd floor are demonstration classrooms and do not use any chemicals or hazardous materials, so these rooms are not smoke rated

Egress Related Requirements

FBC:
1019.3 Exit access stairs can communicate between 2 stories.
Minimum Corridor Width: 44"
Max. Dead End Corridor Length: Group B sprinklered 50' max.
Maximum Common Path of Travel Distance: A=75', B=100'
Maximum Exit Access Travel Distance: Sprinklered A=250', B=300'

Energy Conservation

Climate Zone: Bay County- 2A, warm-humid (FEC Table C301.1)

C402.1.3 Insulation Components R- Values
Roof Insulation - R-38
Mass Walls - R 5.7 ci
Non-Swinging Doors- R 4.75

Table C402.3 Minimum Roof Reflectance: 3 year aged Solar reflectance of .55 and 3 year aged thermal emittance of .75 or 3 year aged SRI 64

C402.4 Fenestration Max U-Factor and SHGC requirements
Fixed - U 0.50
Operable - U 0.65
Entrance Doors - U 0.83
SHGC - .25

C402.5.1 Air Barrier Required

Florida Fire Prevention Code Requirements

Florida Fire Prevention Code
Ch. 38 New Business Occupancies
Meet Ch. 7
Minimum Corridor Width: 44"
Max. Dead End Corridor Length: Group B sprinklered 50' max.
Maximum Common Path of Travel Distance: B=100'
Maximum Exit Access Travel Distance: Sprinklered , B=300'

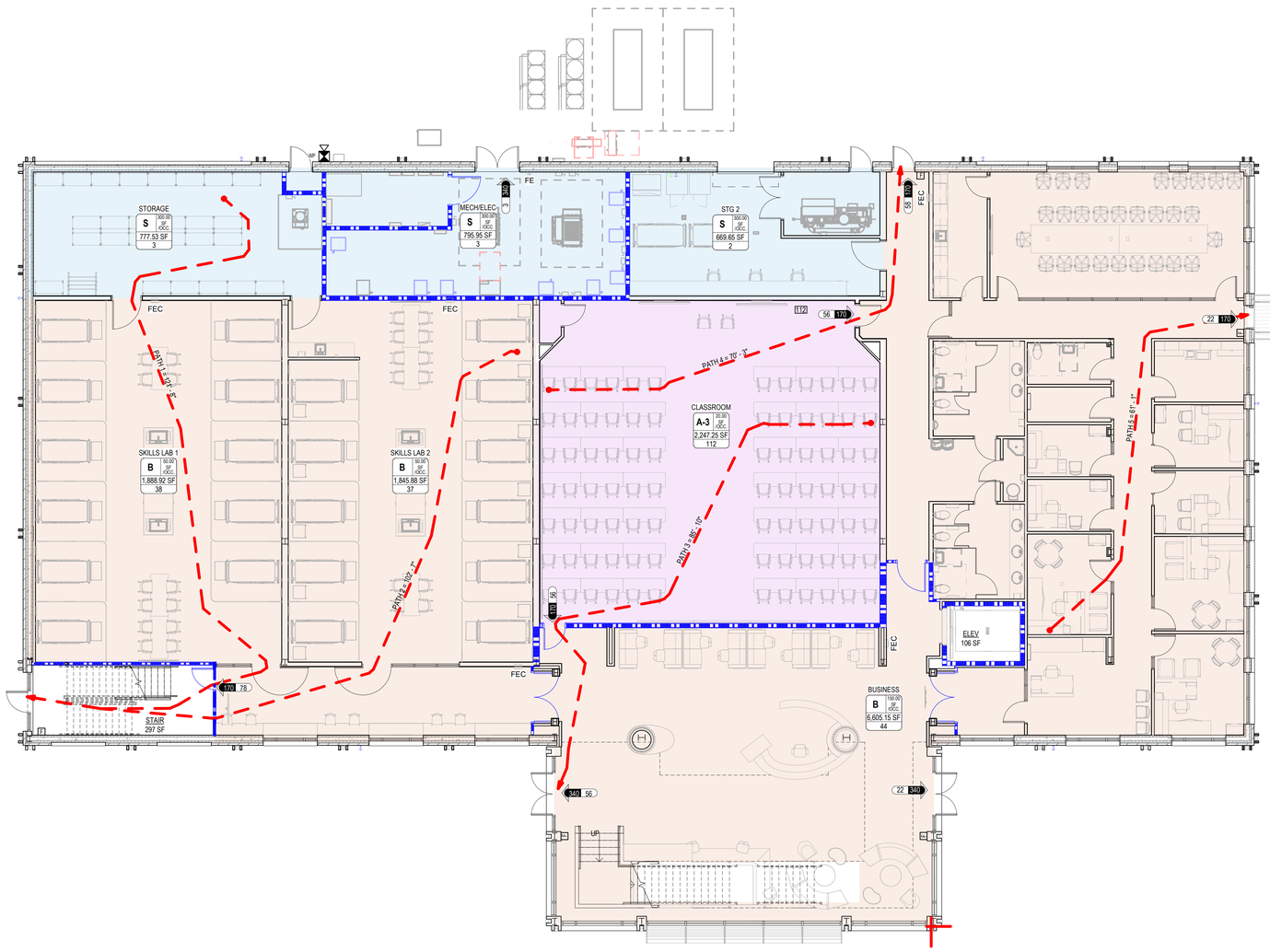
8.6.7 Atriums
Separated by 1 hour fire barrier with opening protectives
Access to exits is permitted within the atrium
Building is sprinklered

38.2.2.12 Area of Refuge complying with 7.2.12 permitted

38.3.2.4 Medical Gas storage and operation shall be in accordance with NFPA 99.

38.3.4.1 Fire alarm in accordance with 9.6 is required.

38.3.6 Fire rated corridors not required with automatic sprinkler system



LIFE SAFETY SYMBOLS

ONE HOUR-RATED FIRE BARRIER

TWO HOUR-RATED FIRE BARRIER

SMOKE-RATED BARRIER

TRAVEL DIST. = XX
START POINT
END POINT
TRAVEL DISTANCE (IN FEET)
PATH OF TRAVEL

ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
ACTUAL OCCUPANT LOAD SERVED
DOOR EGRESS CAPACITY

ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
ACTUAL OCCUPANT LOAD SERVED
STAIR EGRESS CAPACITY

OCCUPANCY TYPE
AREA PER OCCUPANT
OCCUPANT LOAD PER AREA
AREA
OCCUPANTS

OCCUPANCY TYPES

A-3, ASSEMBLY - LECTURE HALLS

B, BUSINESS

S, STORAGE

FE FIRE EXTINGUISHER (BRACKET MOUNTED) REFER TO SPECIFICATIONS

FEC FIRE EXTINGUISHER CABINET; RECESSED; MT 4'-0" TO TOP. INCLUDE 4-A-80-BC TYPE FIRE EXTINGUISHER

FEB FIRE EXTINGUISHER (CABINET WITH BLANKET) REFER TO SPECIFICATIONS

EXIT EXIT EXIT SIGNS - SEE ELECTRICAL

TRAVEL DISTANCES LEVEL 1

PATH ID	TRAVEL DISTANCE ON PATH
1	121' - 8"
2	102' - 7"
3	85' - 10"
4	70' - 3"
5	61' - 1"

_DAG - Occupant Load Ch.10 (G10 Floor Plan_Life Safety)

ROOM NAME	OCCUPANCY TYPE PER SPACE	AREA PER OCCUPANT	AREA	MAX OCCUPANTS	NET OR GROSS
Level 1					
ELEV			106.43 SF		
STAIR			297.32 SF		
A-3					
CLASSROOM	A-3	20.00 SF	2,247.25 SF	113	
B					
BUSINESS	B	150.00 SF	6,605.15 SF	45	
SKILLS LAB 1	B	50.00 SF	1,888.92 SF	38	
SKILLS LAB 2	B	50.00 SF	1,845.88 SF	37	
S					
MECH/ELEC	S	300.00 SF	795.95 SF	3	
STG 2	S	300.00 SF	669.65 SF	3	
STORAGE	S	300.00 SF	777.53 SF	3	
Level 2					
ELEV			113.12 SF		
STAIR			295.45 SF		
A-3					
CLASSROOM	A-3	20.00 SF	1,881.73 SF	95	
B					
BUSINESS	B	150.00 SF	5,864.35 SF	40	
MULTI-PURPOSE LAB	B	50.00 SF	1,528.88 SF	31	
SIM LAB	B	50.00 SF	2,451.58 SF	50	
STUDENT SUCCESS LAB	B	50.00 SF	1,231.29 SF	25	
S					
MECH	S	300.00 SF	437.07 SF	2	
TOTALS			29,037.57 SF	485	

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A1 LEVEL 1 LIFE SAFETY PLAN
1/8" = 1'-0"

PRINT THIS SHEET IN COLOR TO READ RATED WALL TYPES AND OCCUPANCY TYPE AREAS

LIFE SAFETY PLAN LEVEL 1
LS111

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LIFE SAFETY SYMBOLS

ONE HOUR-RATED FIRE BARRIER

TWO HOUR-RATED FIRE BARRIER

SMOKE-RATED BARRIER

TRAVEL DIST. = XX
START POINT
END POINT
TRAVEL DISTANCE (IN FEET)
PATH OF TRAVEL

ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
340 120
ACTUAL OCCUPANT LOAD SERVED
DOOR EGRESS CAPACITY

ALLOWABLE EGRESS COMPONENT OCCUPANT LOAD
220 16
ACTUAL OCCUPANT LOAD SERVED
STAIR EGRESS CAPACITY

OCCUPANCY TYPE
E
AREA PER OCCUPANT
30 /OCC.
1,550 SF
AREA
52
OCCUPANTS
OCCUPANT LOAD PER AREA

OCCUPANCY TYPES

A-3, ASSEMBLY - LECTURE HALLS

B, BUSINESS

S, STORAGE

FE — FIRE EXTINGUISHER (BRACKET MOUNTED) REFER TO SPECIFICATIONS

FEC — FIRE EXTINGUISHER CABINET; RECESSED; MT 4'-0" TO TOP INCLUDE 4-A:80-BC TYPE FIRE EXTINGUISHER

FEB — FIRE EXTINGUISHER (CABINET WITH BLANKET) REFER TO SPECIFICATIONS

EXIT EXIT — EXIT SIGNS - SEE ELECTRICAL

— ASSEMBLY MAX. OCCUPANCY SIGN

A — SIGNAGE, SEE SHEET A-001

TRAVEL DISTANCES LEVEL 2

PATH ID	TRAVEL DISTANCE ON PATH
1	136' - 10"
2	151' - 4"
3	190' - 1"
4	157' - 6"

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AR0017640
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LIFE SAFETY PLAN LEVEL 2

LS121

A1 LEVEL 2 LIFE SAFETY PLAN
1/8" = 1'-0"

PRINT THIS SHEET IN COLOR TO READ RATED WALL TYPES AND OCCUPANCY TYPE AREAS

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GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT CURRENT YEAR DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE STATED OR SHOWN IN THE PLANS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PANAMA CITY STANDARDS AND SPECIFICATIONS, UNLESS APPROVED BY THE CITY OF PANAMA CITY.
3. WHERE THE FDOT DESIGN STANDARDS DIFFER FROM THE CITY OF PANAMA CITY STANDARDS, THE MORE STRINGENT STANDARD SHALL APPLY, UNLESS APPROVED BY THE CITY OF PANAMA CITY.
4. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
5. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (800-432-4770) AT LEAST TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. THE CONTRACTOR SHALL WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. THE CONTRACTOR SHALL PROTECT THE MARKS DURING CONSTRUCTION. IF THE MARKS ARE DESTROYED, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL FLORIDA AGAIN. THE CONTRACTOR SHALL DIG SAFELY, USING EXTREME CAUTION, WHEN DIGGING WITHIN 36 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.
8. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 522-001 (FORMERLY INDEX 310).
9. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP / FDOT EROSION AND SEDIMENT CONTROL HANDBOOK. THIS INCLUDES ALL INLETS ADJACENT TO THE SITE AS WELL AS THE NEAREST DOWNSTREAM INLET.
10. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.
11. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION (STREET SIGNS) VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
12. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE ENGINEER SHALL COORDINATE WITH THE PROJECT ADMINISTRATOR PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
13. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROJECT ADMINISTRATOR OF DISCOVERY. THE PROJECT ADMINISTRATOR WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER. THE PROJECT ADMINISTRATOR WILL ADVISE THE ENGINEER.
14. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
15. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT / FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
16. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 120-001 (FORMERLY INDEX 505).
17. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT.
19. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
20. SWEEPING SHALL OCCUR DAILY OR IMMEDIATELY AFTER SUCH EVENTS THAT CAUSE TRACKING ONTO STREET.
21. ALL SIGNAGE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RELOCATED BY CONTRACTOR AT NO ADDITIONAL COST.
22. ANY SIGNS DAMAGED BY THE CONTRACTOR OR STOCKPILED BY THE CONTRACTOR THAT BECOME DAMAGED SHALL BE REPLACED.
23. ALL FINAL PROPOSED STRIPING AND MESSAGES SHALL BE THERMOPLASTIC. TEMPORARY STRIPING SHALL BE PAINT.
24. CONTRACTOR SHALL PROVIDE SIX (6) SETS OF AS-BUILT DRAWINGS AND ONE (1) DIGITAL COPY IN AUTOCAD FORMAT OF THE COMPLETED PROJECT. THE AS BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR.
25. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
26. ALL ABANDONED UTILITIES SHALL BE REMOVED FROM THE GROUND, NOT ABANDONED IN PLACE.

CONSTRUCTION SEQUENCE AND BMP'S

1. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED.
2. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
3. SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE WITH THE STATE NPDES PROGRAM.
5. THE DESIGN OF THE STORM WATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.

EROSION CONTROL:

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

UTILITY GENERAL NOTES:

1. ALL 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 MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
4. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ITEMS ENCOUNTERED IN THE FIELD, I.E. SIGNS, FENCING, POST, ETC.
5. MAINS SHALL HAVE A MINIMUM OF 36" COVER UNLESS APPROVED BY ENGINEER.
6. CONTRACTOR IS TO FURNISH "AS BUILT" PLANS INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH DIMENSIONS TO THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
8. ALL PVC WATER MAINS AND REUSE MAINS LESS THAN 4" SHALL BE ASTM D22441, SDR-21. ALL PVC WATER MAINS AND REUSE MAINS (4 INCH THROUGH 8 INCH) SHALL BE C900, CLASS 235, DR18. ALL PVC WATER MAINS AND REUSE MAINS (10 INCHES TO 12 INCHES) SHALL BE C900, CLASS 235, DR25.
9. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION.
11. UTILITIES SHOWN ON THE PLAN MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
12. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
13. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON, NOT PVC.
14. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS.
15. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6" CLEARANCE EACH WAY IN THE AXIAL DIRECTION.
16. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES 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 PATH OF THE NEW UTILITIES.
17. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7 DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
18. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
19. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION ONTO NEARBY STREETS AND ADJACENT PROPERTY.
20. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
21. DETECTION TAPE AND INSULATED 10 GA. LOCATING WIRE SHALL BE INSTALLED ON TOP OF ALL NON-METALIC PIPE. WHICH INCLUDES SERVICE CONNECTIONS. ALL DETECTION TAPE AND LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS SHOWN IN THE DETAILS.
22. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
23. THE FLUSHING VELOCITY SHALL BE A MINIMUM OF 3 FEET PER SECOND FOR 3 TIMES THE PIPE VOLUME. THE CONTRACTOR WILL PAY FOR THE FIRST FLUSH AND PRESSURE TEST WATER. THE CONTRACTOR WILL PAY FOR ANY WATER FOR ADDITIONAL REPAIRS, FLUSHING, AND TESTING. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY ABOVE GROUND OUTLETS AND VALVES FOR FLUSHING THE PIPES ON THIS PROJECT.
24. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
25. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF PERMITS.
26. ALL DISTURBED AREAS SHALL BE SODDED.
27. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.
28. ALL ABOVE GROUND WATER SERVICE PIPING AND APPURTENANCES SHALL BE INSULATED WITH WEATHER PROOF FOAM INSULATION.

SIGNING AND MARKING NOTES:

1. FOR SIGN DETAILS, USE THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITION).
2. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE PROJECT ADMINISTRATOR.
3. SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH CURRENT MUTCD, AMERICANS WITH DISABILITIES ACT, FDOT DESIGN STANDARDS (CURRENT EDITION), AND THE PLANS.
4. THE PAVEMENT MARKINGS AT ALL EXISTING / PROPOSED INTERFACE LOCATIONS SHALL MATCH IN TERMS OF ALIGNMENT AND COLOR.
5. ALL PAVEMENT MARKINGS SHALL BE FREE OF LEAD CONTAMINATES AND SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED IN PLANS.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

GENERAL NOTES

C-001

August 28, 2025 (09:24:57 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\3DFOLDER_PRODUCTION\50186685_NOTES-DETAILS.DWG C-001 GENERAL NOTES BY: MHURST

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

1. SITE DESCRIPTION:
   A. CONSTRUCTION ACTIVITY: SITE GRADING, UTILITY INSTALLATION AND DRAINAGE IMPROVEMENTS FOR A PROPOSED THREE STORY BUILDING.
   PROJECT LIMITS: SEE SHEET C6.
   MAJOR SOIL DISTURBING ACTIVITIES: SITE GRADING, UTILITY INSTALLATION AND DRAINAGE IMPROVEMENTS.
   B. TOTAL PROJECT AREA: 54,100± SF (1.25± AC)
   TOTAL SOIL AREA TO BE DISTURBED: 54,100± SF (1.25± AC)
   C. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.48, DURING: 0.60, AFTER: 0.80
   (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: SEE GEOTECHNICAL REPORT
   (3)ESTIMATES OF SIZE OF DRAINAGE AREA FOR OUTFALL: 1.25 ACRES
   D. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS:
   E. (1) NAME OF RECEIVING WATERS: NORTH BAY
   (2) WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED

2. CONTROLS:
   NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
   THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SILT FENCE AND TURBIDITY BARRIERS WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SILT FENCE SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

   A. EROSION AND SEDIMENT CONTROLS:
   (1) STABILIZATION PRACTICES:
   TEMPORARY SODDING
   X TEMPORARY GRASSING
   X PERMANENT PLANTING, SODDING, OR SEEDING
   TEMPORARY MULCHING
   ARTIFICIAL COVERING
   BUFFER ZONES
   X PRESERVATION OF NATURAL RESOURCES
   (2) STRUCTURAL PRACTICES:

SAND BAGGING	SEDIMENT TRAPS
X SILT FENCES	SEDIMENT BASINS
X HAY BALES	STORM INLET SEDIMENT TRAP (ROCK BAGS)
BERMS	STONE OUTLET STRUCTURES
X DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES	CURBS AND GUTTERS
PIPE SLOPE DRAINS	X STORM SEWERS
FLUMES	VELOCITY CONTROL DEVICES
ROCK BEDDING AT CONSTRUCTION EXIT	TURBIDITY BARRIER
TIMBER BEDDING AT CONSTRUCTION EXIT	RIP RAP
DITCH LINER	

   B. DESCRIPTION OF STORMWATER MANAGEMENT: N/A (URBAN INFILL).
   C. OTHER CONTROLS:
   (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
   (2) OFFSITE VEHICLE TRACKING:
   HAUL ROADS DAMPENED FOR DUST CONTROL
   X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
   X EXCESS DIRT ON ROAD REMOVED DAILY
   X STABILIZED CONSTRUCTION ENTRANCE
   (3) SANITARY WASTE: N/A
   (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
   (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): TO BE USED DURING DEWATERING PROPER BMPS.
   D. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS: LYNN HAVEN DEVELOPMENT ORDER, AND FDEP/NWFWMD ENVIRONMENTAL RESOURCE PERMIT

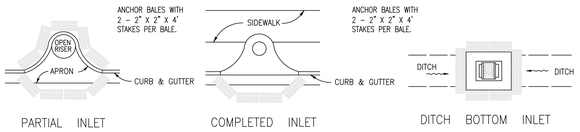
3. MAINTENANCE:
   ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

4. INSPECTION:
   ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER ONE HALF INCH (0.50") OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
   A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORM WATER POLLUTION PREVENTION PLAN.
   B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
   C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.

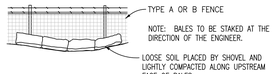
6. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE," WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY, AS WELL AS REQUIREMENTS DEFINED IN THE LYNN HAVEN LAND DEVELOPMENT CODE CHAPTER 3.02.05.

7. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT AS REQUIRED.

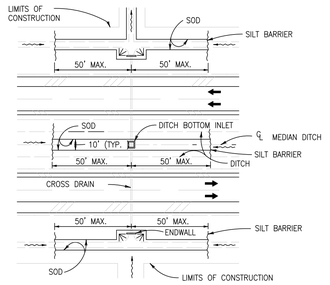


PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

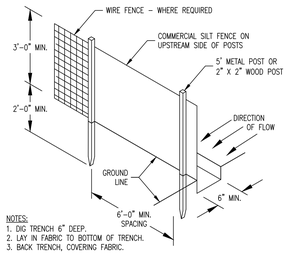
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BALES BACKED BY FENCE

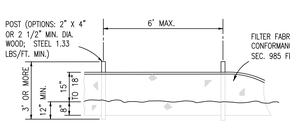


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

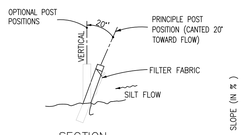


DETAIL SILT FENCE

SCALE: N.T.S.



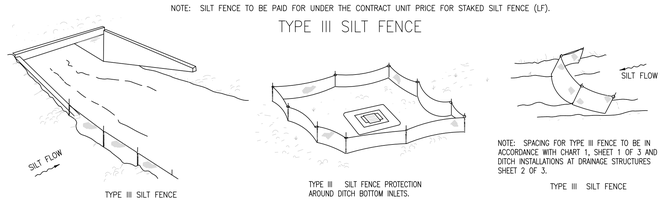
ELEVATION



SECTION

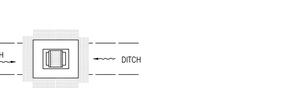
NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE

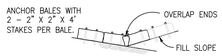


DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

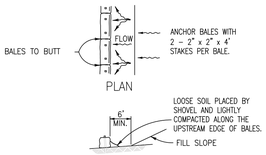


PLAN



ELEVATION

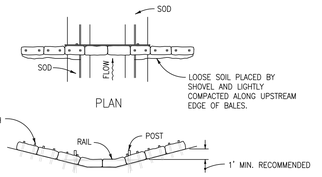
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

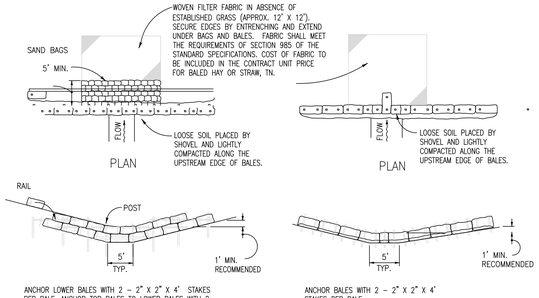
BARRIERS FOR FILL SLOPES



ELEVATION

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

BARRIER FOR PAVED DITCH



ELEVATION ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN THE CHART BELOW.

TYPE II TYPE I

BARRIER FOR UNPAVED DITCHES

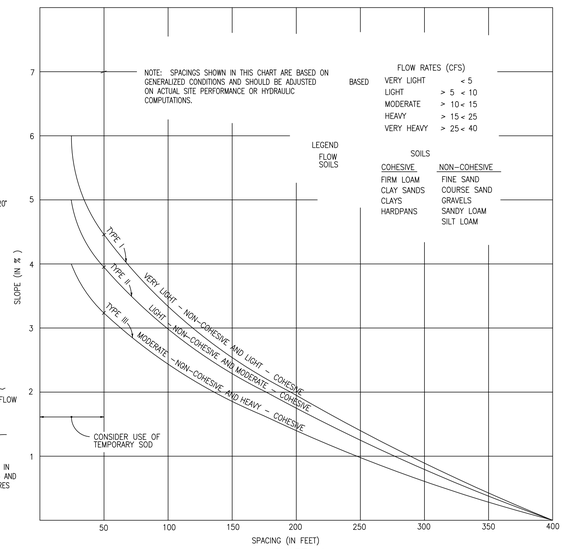
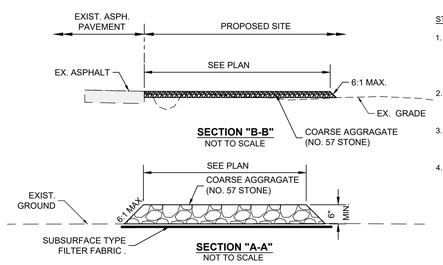


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES



STABILIZED CONSTRUCTION ENTRANCE

DETAIL

SCALE: N.T.S.

STABILIZED ENTRANCE NOTES:

1. THE SITE CONSTRUCTION ACCESS SHALL BE STABILIZED USING 6" MINIMUM THICKNESS OF COARSE AGGREGATE TO REDUCE EROSION CAUSED BY CONSTRUCTION TRAFFIC, AND TO MINIMIZE TRANSPORT OF SEDIMENT ONTO THE EXISTING ROADWAY.
2. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE AS NEEDED TO PROVIDE POSITIVE DRAINAGE. MAINTAIN ONE FOOT (MIN.) OF COVER OVER CULVERT PIPE.
3. AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF ANY PROPOSED UTILITY CONSTRUCTION WITHIN THE RIGHT OF WAY.
4. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE PUBLIC STREETS OR GUTTERS. PERIODIC TOP-DRESSING WITH STONE WILL BE NECESSARY AND AN ADEQUATE SUPPLY SHOULD BE ON HAND. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE RECOVERED AND CLEANED UP IMMEDIATELY.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

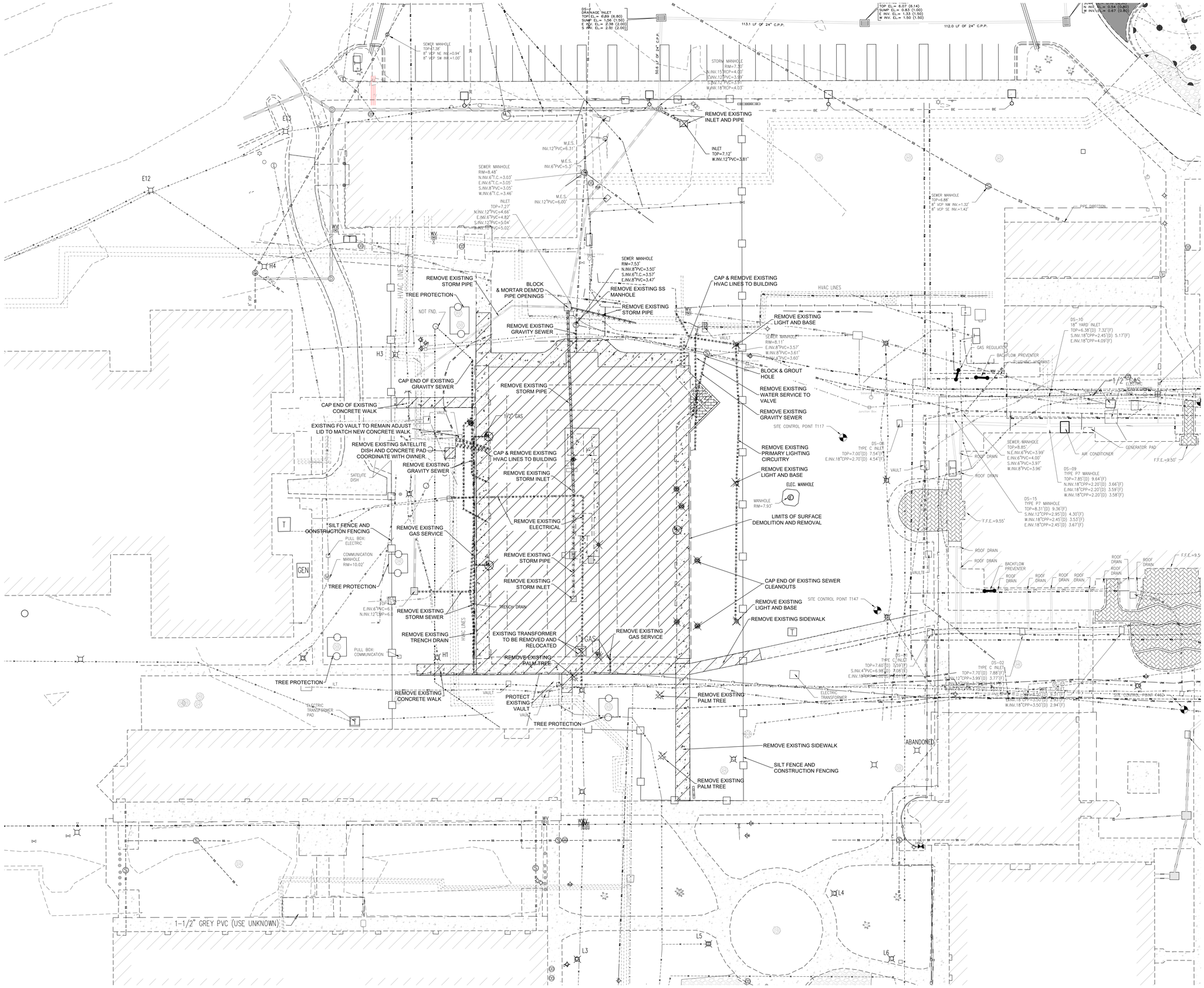
NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

SWPPP

C-002

August 28, 2025 (09:24:57 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\DP\CALDER_PRODUCTION\50186685_NOTES-DETAILS.DWG C-002 SWPPP BY: MHURST



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August 28, 2025 (09:25:51 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\DFOLDER_PRODUCTION\50186685_DEMOPLAN.DWG C-101 DEMO & EROSION CONTROL PLAN BY: MHURST

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

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

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

DEMO & EROSION CONTROL PLAN

C-101

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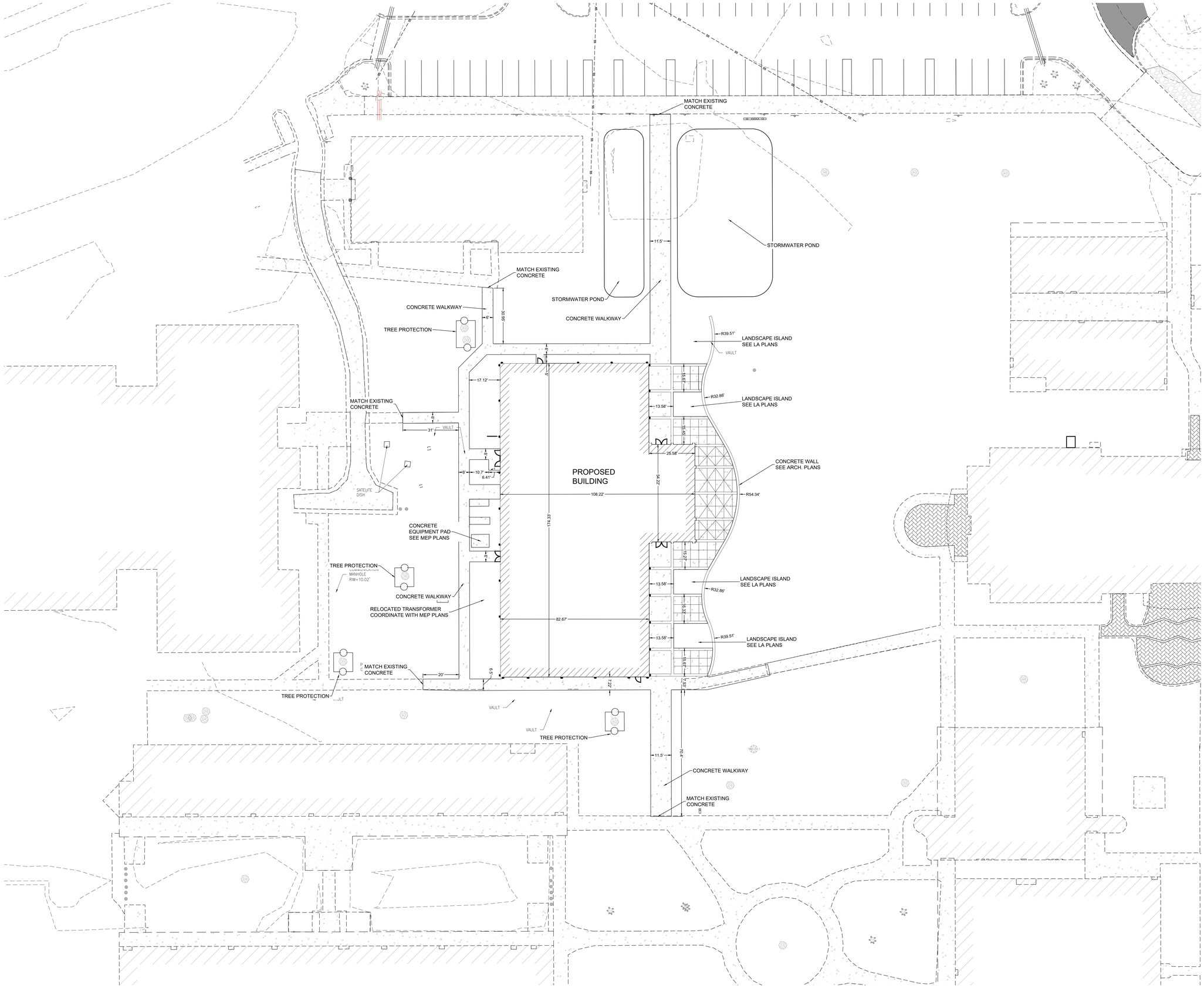

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

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SCALE: 1" = 20'

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

SITE PLAN

C-102

August 29, 2025 (09:22:37 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\3DFOLDER_PRODUCTION\50186685_SITEPLAN.DWG C-102 SITE PLAN BY: MHURST

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

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

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

GRADING & DRAINAGE

C-103

August 28, 2025 (09:23:27 EST)
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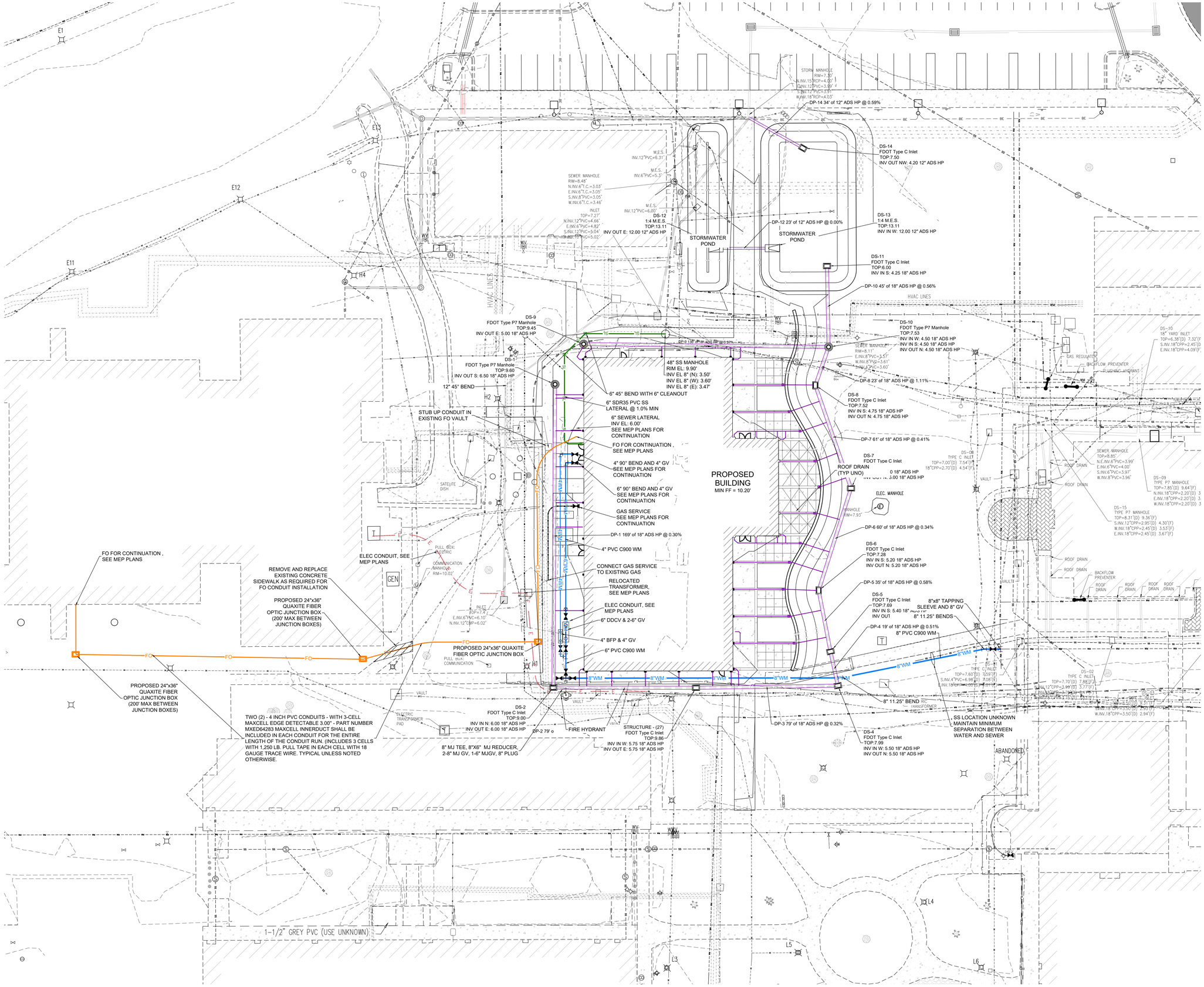
August 28, 2025 (09:22:37 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\SP FOLDER_PRODUCTION\50186685_SITEPLAN.DWG C-300 UTILITY PLAN BY: MHURST



DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

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

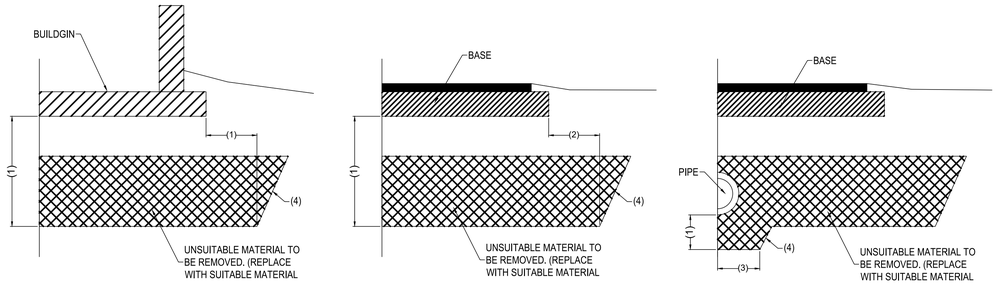
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

UTILITY PLAN

C-104

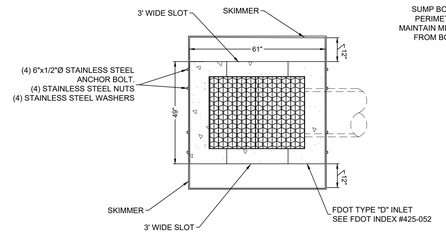


NOTES

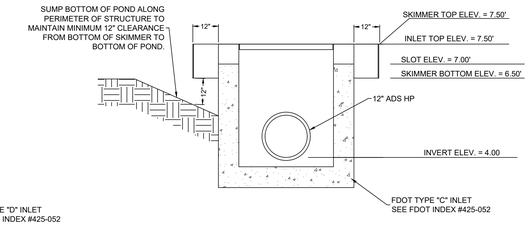
1. CONTRACTOR TO REMOVE UNSUITABLE MATERIAL BENEATH BUILDINGS AND FOUNDATIONS TO FULL DEPTH IN ACCORDANCE WITH GEOTECHNICAL REPORT AND TECHNICAL SPECIFICATIONS. EXTEND UNSUITABLE MATERIAL REMOVAL LIMITS FOR A DISTANCE EQUAL TO DEPTH OF EXCAVATION BEYOND BUILDINGS AND FOUNDATIONS, BUT NOT LESS THAN 5 FEET.
2. CONTRACTOR TO REMOVE UNSUITABLE MATERIAL BENEATH PAVEMENT AREAS UP TO A DEPTH OF 4 FEET BENEATH BOTTOM OF BASE COURSE OR BOTTOM OF CONCRETE. ACTUAL DEPTH OF REMOVAL AND REPLACEMENT WILL VARY WITH DEPTH OF UNSUITABLE MATERIAL. SEE GEOTECHNICAL REPORT. EXTEND UNSUITABLE MATERIAL REMOVAL LIMITS FOR A DISTANCE OF 2 FEET BEYOND EDGE OF PAVEMENT OR BACK OF CURB.
3. CONTRACTOR TO REMOVE UNSUITABLE MATERIAL BENEATH UTILITIES UNDER ROADWAYS UP TO A DEPTH OF 1.5 TIMES DIAMETER OF PIPE, BUT NOT MORE THAN 4 FEET BENEATH BOTTOM OF PIPE. ACTUAL DEPTH OF REMOVAL AND REPLACEMENT WILL VARY WITH DEPTH OF UNSUITABLE MATERIAL. SEE GEOTECHNICAL REPORT. EXTEND UNSUITABLE MATERIAL REMOVAL LIMITS FOR A DISTANCE OF 2 FEET BEYOND WIDTH OF PIPE.
4. PRIOR TO COMMENCEMENT, CONTRACTOR TO REQUEST AUTHORIZATION FROM GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO OBSERVE REMOVAL AND NOTIFY CONTRACTOR WHEN TO TERMINATE REMOVAL AND BEGIN FILL. COORDINATE ANY DEWATERING WITH GEOTECHNICAL ENGINEER. EXCAVATION SIDE SLOPE TO BE AS DIRECTED BY GEOTECHNICAL ENGINEER.
5. UNSUITABLE MATERIAL QUANTITIES TO BE MEASURED AND CALCULATED IN ACCORDANCE WITH SPECIFICATION SECTION 02200
6. REMOVAL OF UNSUITABLE MATERIAL NOT PERFORMED IN ACCORDANCE WITH SPECIFCATION SECTION 02200 WILL BE AT CONTRACTOR'S COST.

DETAIL UNSUITABLE MATERIAL REMOVAL LIMITS

SCALE: N.T.S.



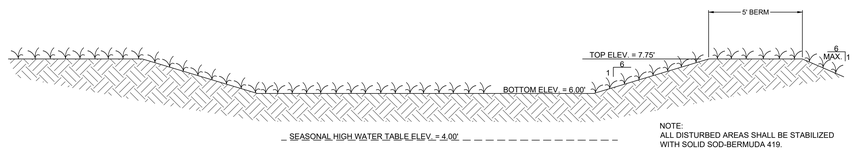
PLAN VIEW



SECTION VIEW

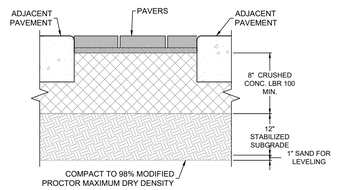
DETAIL CONCRETE DISCHARGE STRUCTURE

SCALE: N.T.S.



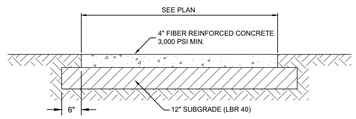
SECTION TYPICAL POND SECTION

SCALE: N.T.S.

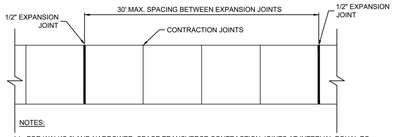


DETAIL SIDEWALK & BRICK PAVERS

SCALE: N.T.S.



SIDEWALK CROSS SECTION

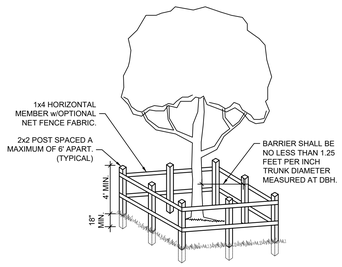


NOTES:

1.) FOR WALKS 8' AND NARROWER, SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVAL EQUAL TO WIDTH OF WALK OR AS NOTED.
2.) CONTRACTION JOINTS TO BE 1" DEEP SCORED, SAW-CUT, OR FORMED WITH INSERT AT CONTRACTORS OPTION UNLESS NOTED OTHERWISE. SCORED JOINTS TO USE AN APPROVED TOOL. INSERTS TO BE GREENSTREAK ZIPCAP #855 OR EQUAL. SCORED JOINTS TO BE EDGED WITH 1/8" RADIUS.
3.) EXPANSION JOINT REQUIRED WHERE SHOWN. EXPANSION JOINT TO CONSIST OF 1/2" FIBER BOARD AND GREENSTREAK CAP SEAL #624 OR EQUAL.
4.) ALL SIDEWALKS SHALL HAVE A MAXIMUM 2% CROSS SLOPE.

DETAIL CONCRETE SIDEWALK

SCALE: N.T.S.



TREE PROTECTION NOTES:

1. TREE PROTECTION BARRIER SHALL BE PLACED NO LESS THAN 1.25 FEET PER INCH TRUNK DIAMETER (DBH) FROM THE PROTECTED TREE.
2. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE MINIMUM SETBACK OF A TREE TO REMAIN ON SITE UNLESS OTHERWISE APPROVED BY THE CITY.
3. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.
4. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA INDICATED ON THE PLAN.
5. THE IRRIGATION SYSTEM (IF PRESENT) SHALL BE DESIGNED TO MINIMIZE ROOT DISTURBANCE TO EXISTING TREES AND OTHER VEGETATION TO BE RETAINED.

DETAIL TREE PROTECTION BARRIER

SCALE: N.T.S.

STORMWATER OPERATION/MAINTENANCE PLAN

OPERATION AND MAINTENANCE ENTITY IS GCSC

AFTER EACH RAINFALL EVENT

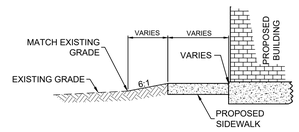
1. PAVEMENT AREAS – CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS.
2. SEDIMENTS IN RETENTION/DETENTION AREAS – REMOVED IMMEDIATELY.
3. DEBRIS IN RETENTION/DETENTION AREAS – ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED IMMEDIATELY.
4. YARD INLETS, CATCH BASINS, ETC. – ALL DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED IMMEDIATELY.

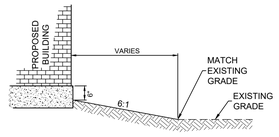
PERIODIC POND/SYSTEM MAINTENANCE

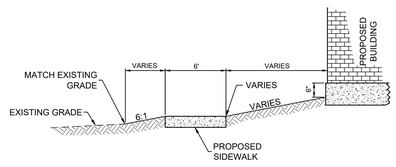
1. CLEANING/SWEEPING OF PAVEMENT AREAS SHALL BE ACCOMPLISHED WEEKLY OR AS REQUIRED.
2. INSPECT POND PERIODICALLY FOR ACCUMULATION OF TRASH AND DEBRIS AND REMOVE IT UPON DISCOVERY.
3. MOWING AND LANDSCAPING MAINTENANCE SHOULD BE DONE ON A MONTHLY BASIS DURING THE ACTIVE GROWING SEASON FOR THE AREA. INSPECT AND MAINTAIN AS REQUIRED DURING THE GROWING SEASON.
4. WEEDS OR UNDESIRABLE GROWTH SHALL BE REMOVED UPON DISCOVERY.
5. CATCH BASINS SHALL BE FLUSHED AS NECESSARY (IF ANY).
6. THE OWNER SHALL RE-GRADE AND RE-STABILIZE SWALE/RETENTION/DETENTION AREAS AS REQUIRED TO MAINTAIN THE APPROVED DESIGN, CROSS-SECTION, LINE, AND GRADE.
7. REMOVE SEDIMENT FROM POND WHEN ACCUMULATION REACHES FOUR (4) INCHES. MEASURE ACCUMULATION ONCE A YEAR.

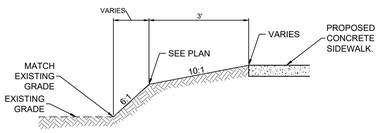
INSPECTIONS

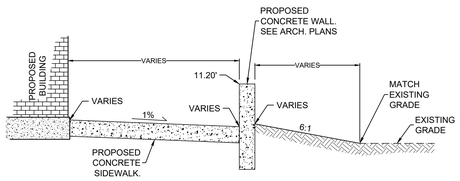
1. A MAINTENANCE INSPECTION MUST BE PERFORMED EVERY THIRD YEAR BY A REGISTERED PROFESSIONAL.
2. THE MAINTENANCE INSPECTION MUST BE DOCUMENTED ON THE FDEP AND/OR NWFWMD STANDARD INSPECTION FORM 62-330.311(1).
3. THE INSPECTION MUST BE SIGNED, SEALED, AND DATED BY THE REGISTERED PROFESSIONAL.
4. THE INSPECTION MUST BE CONDUCTED USING THE PLANS, CALCULATIONS AND SPECIFICATIONS APPROVED BY THE FDEP AND/OR NWFWMD.









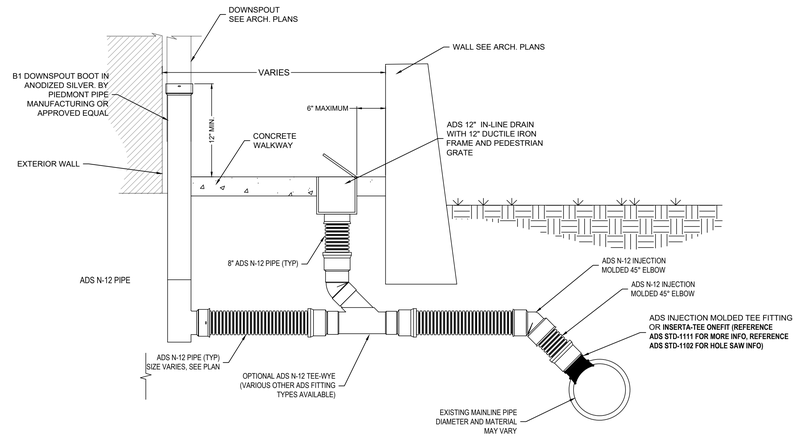


NOTES:

1.) UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH SOLID SOD.

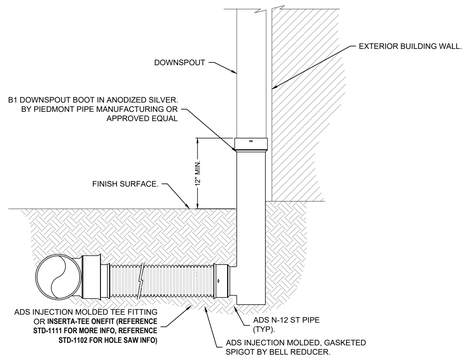
TYPICAL SECTIONS

SCALE: N.T.S.



DETAIL DOWNSPOUT WITH YARD DRAIN CONNECTION TO STORM DRAIN

SCALE: N.T.S.



NOTES:

1. D.S. = DOWNSPOUT
2. DOWNSPOUT LOCATIONS ARE APPROXIMATE. ALL DOWNSPOUTS SHALL BE CONNECTED TO THE STORM PIPE NETWORK UNLESS OTHERWISE SPECIFIED ON THE PLANS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
3. GUTTERS SHALL BE CONTINUOUS 5" ALUMINUM WITH 5"x5" DOWNSPOUT OR AS SHOWN ON ARCHITECTURAL / MEP PLANS.
4. ALL PIPE UNDERDRAINS SHALL MAINTAIN POSITIVE FLOW TO STORM WATER COLLECTION SYSTEM.

DETAIL DOWNSPOUT CONNECTION TO STORM DRAIN

SCALE: N.T.S.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

MISCELLANEOUS DETAILS

C-201

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August 28, 2025 (09:24:57 EST)
K:\50186685.000_DAG_GCSC-NURSING AND SIMULATION CENTER_CIVIL\DFOLDER_PRODUCTION\50186685_NOTES-DETAILS.DWG C-201 MISCELLANEOUS DETAILS BY MHURST

W-TER M-IN INST-LL-TION GENER-L REQUIREMENTS:

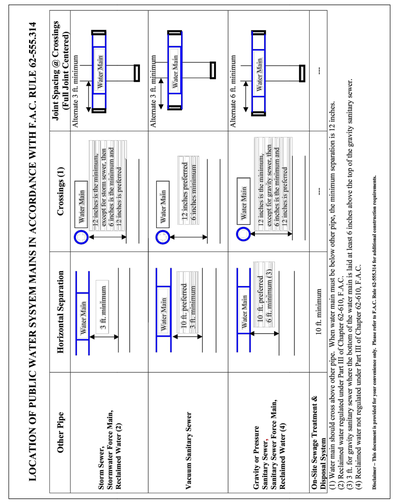
1. -LL W-TER M-INS SH-LL BE INST-LLED -CCORDING TO ENGINEERING PL-NS -ND -SPECIFIC-TIONS
2. -LL V-LVES -ND M-TER-LS SH-LL COMPLY WITH - W- (-MERIC-N W-TER WORKS -SSOCI-TION) ST-ND-RDS, L-TEST EDTION.
3. -LL PVC W-TER M-INS SIZES SM-LLER TH-N 3" SH-LL BE -STM D2241 SDR 21, R-TED PRESSURE 200 PSI. -LL PVC W-TER M-INS SIZES 3" -ND L-RGER SH-LL BE - W- C900 DR18, PRESSURE CL-SS 235
4. -LL HDPE W-TER M-INS SIZE 3" -ND LESS SH-LL BE -WW- C901 SDR9 IPS. -LL HDPE W-TER M-INS 4" -ND L-RGER SH-LL BE -WW- C906 DIRS DR9 (200 PSI) OR DIPS DR11 (160 PSI).
5. -LL W-TER SERVICE SIZES 2" -ND LESS SH-LL BE PE FLEXIBLE TUBING PE4710 SDR 9 CTS.
6. -LL NEW W-TER M-IN IS TO BE 8" OR GRE-TER WITH - M-XIMUM OF 400 LF OF 6" FOR DE-D ENDS WITH - FIRE HYDR-NT -T THE TR-NSITION.
7. -LL DUCTLE IRON W-TER M-INS SH-LL BE SIZES 4" TO 12" SH-LL BE - W- C151 CL-SS 250 WITH CEMENT LINING, PER - W- C104.
8. -LL POT-BLE W-TER M-IN SH-LL BE COLOR BLUE. -LL RECL-IMED W-TER M-INS SH-LL BE COLOR PURPLE.
9. -LL M-IN LINE V-LVES 4" -ND L-RGER SH-LL BE EPOXY CO-TED RESILIENT SE-TED G-TE V-LVES.
10. -LL W-TER M-INS SH-LL H- E - MINIMUM OF 36" COVER. IN DITCH BOTTOMS, W-TER M-INS -ND SERVICE LINES SH-LL BE - MINIMUM OF 5.0' BELOW THE BOTTOM.
11. -LL W-TER M-INS SH-LL BE HYDROST-TIC-LLY TESTED PER - W- ST-ND-RD C600 (L-TEST EDTION) -T 150 PSIG (MINIMUM) FOR TWO HOURS. CONTR-CTOR SH-LL NOTIFY CITY'S ENGINEER WITHIN 48 HOURS OF PRESSURE TESTING. NO EXCEPTIONS.
12. -LL M-INS -ND SERVICE LINES SH-LL BE DISINFECTED IN -CCORD-NCE WITH - W- C651. CITY'S ENGINEER SH-LL BE PRESENT DURING B-CTERIOLOGIC-L S-MPLING -ND PRESSURE TESTING. -LL W-TER M-INS SH-LL BE FLUSHED @ 3 FT PER SECOND -ND 10 TIMES THE PIPE VOLUME SH-LL BE FLUSHED.
13. -LL V-LVE BOXES SH-LL BE INST-LLED PER DET-IL SHOWN -ND SET FLUSH TO FINISH GR-DE. PRE-C-ST V-LVE P-DS SH-LL NOT BE USED. -LL V-LVE BOX RISERS SH-LL BE DUCTLE IRON -ND NOT PVC.
14. -LL PIPE -ND B-CKFILL SH-LL BE INST-LLED IN DRY CONDITIONS. WELL POINTING OR CL-SS I PIPE EMBEDMENT M-TER-L (#67 CRUSHED OR GR-TED LIMEROCK OR -PPROVED EQU-L) M-Y BE REQUIRED -T THE DIRECTION OF THE ENGINEER.
15. WHERE THERE IS LESS TH-N 12" CLE-R-NCE BETWEEN PVC/DI PIPE -ND OTHER PIPE OR SPECIFIED -RE-S, THE PIPE SH-LL BE CONCRETE ENC-SED WITH 6" THICKNESS -ROUND THE PIPE -ND 6" CLE-R-NCE E-CH W-Y IN THE -XI-L DIRECTION.
16. THE CONTR-CTOR SH-LL USE RESTR-INED JOINT PIPE FOR -LL BENDS, TEES, V-LVES, -ND TR-NSITION FITTINGS.
17. -LL W-TER M-IN SH-LL BE INST-LLED WITH INSUL-TED 10 G-. COPPER TR-CER WIRE -ND LOC-TOR T-PE SH-LL ON TOP OF -LL PIPE, WHICH INCLUDES SERVICE CONNECTIONS. -LL LOC-TING WIRE SH-LL BE CONNECTED -ND SH-LL TERMIN-TE IN V-LVE BOXES -ND METER BOXES -S SHOWN IN THE DET-ILS. LOC-TOR T-PE SH-LL BE M-RKED "POT-BLE W-TER BELOW" -ND INST-LLED 12" TO 18" -BOVE THE PIPE.
18. THE CONTR-CTOR SH-LL PROVIDE -LL FITTINGS, SLEEVES -ND TR-NSITION -D-PTERS -S NECESS-RY TO COMPLETE THIS PROJECT.
19. CONTR-CTOR SH-LL BE RESPONSIBLE FOR TEMPOR-RY W-TER SERVICE.
20. -LL W-TER M-IN T-PS TO THE EXISTING SYSTEM REQUIRES NOTIFIC-TION -T LE-ST 72-HOURS IN -DV-NCE TO THE CITY OF P-N-M- CITY UNDERGROUND UTILITIES DEP-RTMENT. CONT-CT PHONE NUMBER IS (850-872-3165).

PANAMA CITY, FLORIDA
STANDARD DETAILS

WATER MAIN INSTALLATION
GENERAL REQUIREMENTS

DATE : MARCH 2023
SCALE : NTS

FIGURE : PW-1



PANAMA CITY, FLORIDA
STANDARD DETAILS

FDEP WATER SYSTEM SEPARATION
REQUIREMENT TABLE

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-2A

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND OWNER WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING NON-REGULATED RECLAIMED WATER.
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION. THE FOLLOW SPECIAL CASE
9. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE HORIZONTAL REQUIREMENTS IN NOTES 3 AND 4 THE FOLLOWING ALTERNATIVE CONSTRUCTION FEATURES ARE ACCEPTABLE:
   A. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER
   B. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND PRESSURE-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTH PIPELINES ARE PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS AND WHERE WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS ARE USED FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

PANAMA CITY, FLORIDA
STANDARD DETAILS

WATER MAIN AND NON-WATER MAIN
SEPARATION REQUIREMENTS

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-2B

62-555.314 (5)

(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE.

1. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERIAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY - OR VACUUM - TYPE PIPELINE;
2. USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
3. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:

1. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN; AND
2. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

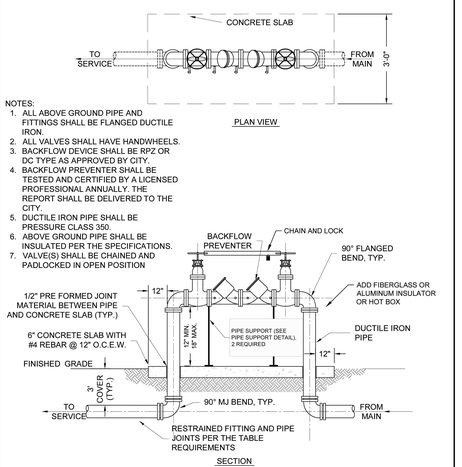
F.A.C. 62-555.314 EXCEPTIONS

PANAMA CITY, FLORIDA
STANDARD DETAILS

WATER MAIN SEPARATION REQUIREMENTS
EXCEPTIONS

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-3



BACKFLOW PREVENTER - 3" AND LARGER

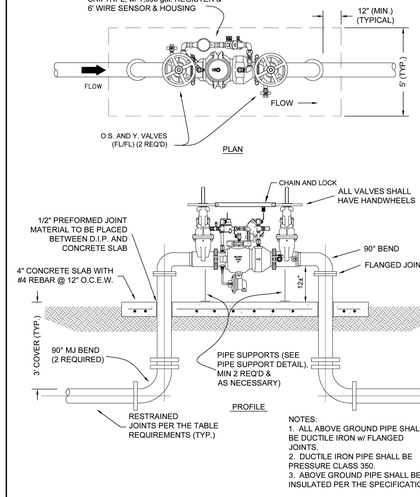
N.T.S.

PANAMA CITY, FLORIDA
STANDARD DETAILS

BACKFLOW PREVENTER - 3" AND LARGER

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-12



DOUBLE DETECTOR CHECK VALVE ASSEMBLY

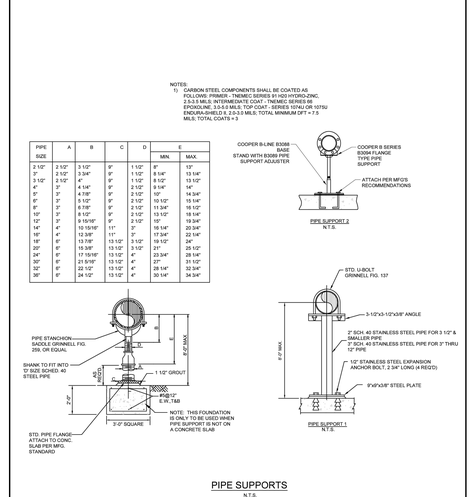
N.T.S.

PANAMA CITY, FLORIDA
STANDARD DETAILS

DOUBLE DETECTOR CHECK VALVE ASSEMBLY

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-13



PIPE SUPPORTS

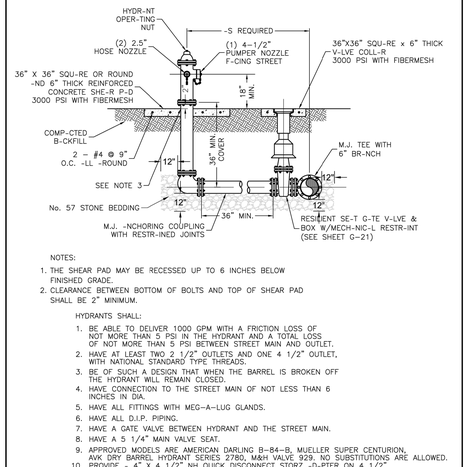
N.T.S.

PANAMA CITY, FLORIDA
STANDARD DETAILS

PIPE SUPPORTS

DATE : NOVEMBER 2022
SCALE : NTS

FIGURE : PW-17



FIRE HYDRANT ASSEMBLY

N.T.S.

PANAMA CITY, FLORIDA
STANDARD DETAILS

FIRE HYDRANT ASSEMBLY

DATE : MARCH 2023
SCALE : NTS

FIGURE : PW-18

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
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Dewberry
203 Aberdeen Parkway
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GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

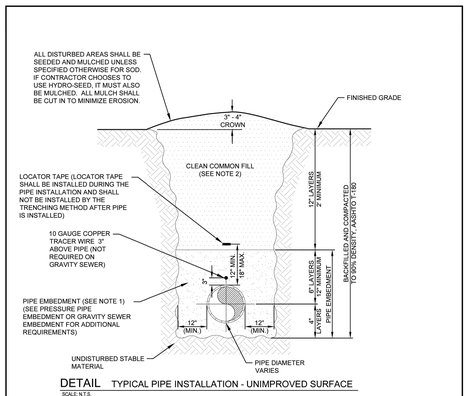
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

UTILITY DETAILS

C-202

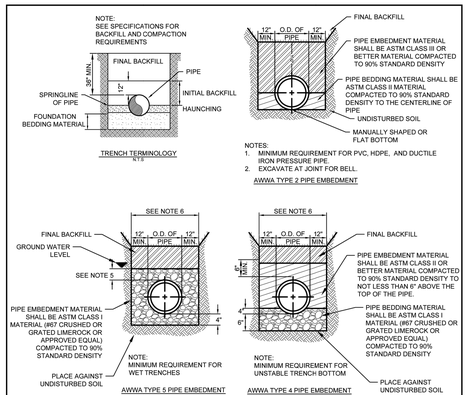


DETAIL TYPICAL PIPE INSTALLATION - UNIMPROVED SURFACE

SCALE: N.T.S.

NOTES:
1. PRESSURE PIPE EMBEDMENT SHALL BE ASTM CLASS II MATERIAL (MINIMUM). GRAVITY PIPE EMBEDMENT SHALL BE ASTM CLASS I MATERIAL, OR PIPE EMBEDMENT MATERIAL AS SPECIFIED BY ENGINEER. PRESSURE PIPE SHALL BE BEDDED AND COMPACTED IN ACCORDANCE WITH AWWA C605-TYPE 2 BEDDING REQUIREMENTS FOR PVC PIPE AND AWWA C600-TYPE 2 BEDDING REQUIREMENTS FOR DUCTILE IRON PIPE. GRAVITY PIPES SHALL BE BEDDED AND COMPACTED IN ACCORDANCE WITH ASTM D2321.
2. CLEAN COMMON BACKFILL SHALL BE ASTM CLASS III MATERIAL OR BETTER. ASTM CLASS IV OR V MATERIALS SHALL BE USED FOR BACKFILL. CLEAN COMMON BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12 INCH THICKNESS AND EACH LAYER SHALL BE COMPACTED TO 90% STANDARD DENSITY.
3. NO TRASH, RUBBISH, ROCKS OR DEBRIS WILL BE ALLOWED IN TRENCHES.
4. ALL PIPE SHALL BE INSTALLED IN DRY TRENCHES.
5. CONTRACTOR MAY BE REQUIRED BY THE ENGINEER TO DE-WATER PIPE TRENCH, IF NECESSARY.
6. BACK FILL FOR PIPE IN WET TRENCHES SHALL BE ASTM CLASS I MATERIAL (#67 CRUSHED OR GRATED LIMEROCK) TO BE COMPACTED IN THE TRENCH TO A LEVEL ABOVE THE GROUND WATER.
7. AT THE ENGINEER'S DISCRETION, THE CONTRACTOR SHALL SUBSTITUTE SELECT BACKFILL IN LIEU OF NATIVE SOILS FOR A UNIT PRICE SPECIFIED IN THE CONTRACTOR'S BID FORM.
8. THE CONTRACTOR WILL BE COMPENSATED FOR SELECT BACKFILL ONLY IF DIRECTED BY THE ENGINEER IN WRITING. THE ENGINEER MAY ISSUE A FIELD ORDER WITH WRITTEN CONFIRMATION WITHIN 24 HOURS.

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	OCTOBER 2022
TYPICAL PIPE INSTALLATION - UNIMPROVED SURFACE	SCALE :	NTS
	FIGURE :	G-4



TRENCH TERMINOLOGY
N.T.S.

NOTES:
1. MINIMUM REQUIREMENT FOR PVC, HDPE, AND DUCTILE IRON PRESSURE PIPE
2. EXCAVATE AT JOINT FOR BELL.

AWWA TYPE 2 PIPE EMBEDMENT

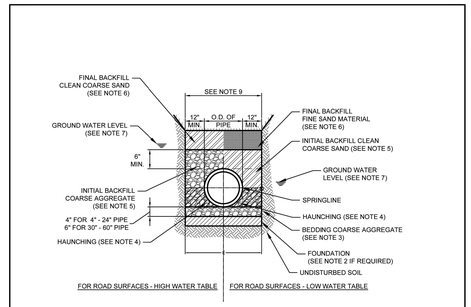
AWWA TYPE 5 PIPE EMBEDMENT

AWWA TYPE 4 PIPE EMBEDMENT

PIPE EMBEDMENT MATERIAL SPECIFICATIONS.

EMBEDMENT MATERIALS (CLASS I, II AND III) SHALL CONFORM TO PARAGRAPHS 6.1.1, 6.1.2 AND 6.1.3, ASTM D-2321 WHICH READS AS FOLLOWS:
1. CLASS I - ANGULAR, 1/4 TO 1-1/2 IN. GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CRUSHED STONE, CRUSHED GRAVEL, AND CRUSHED SHELLS.
2. CLASS II - COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2 IN., INCLUDING VARIOUSLY GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.
3. CLASS III - FINE SAND AND CLAYEY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES, SOIL TYPES GM, GC, SM AND SC ARE INCLUDED IN THIS CLASS.
4. SOIL CLASSIFICATION IS IN CONFORMANCE WITH UNIFIED SOIL CLASSIFICATION SYSTEM ASTM DESIGNATION D-2487 AND D-2488. NATIVE SOILS MEETING THE REQUIREMENTS FOR CLASS II AND CLASS III MATERIALS MAY BE ACCEPTED BY THE ENGINEER.
5. PIPE EMBEDMENT SHALL EXTEND TO NOT LESS THAN 6" ABOVE THE TOP OF THE PIPE OR THE CURRENT GROUND WATER LEVEL.
6. PIPE O.D. PLUS 24" FOR PIPES LESS THAN 18" - PIPE O.D. PLUS 32" FOR PIPES GREATER THAN 18"

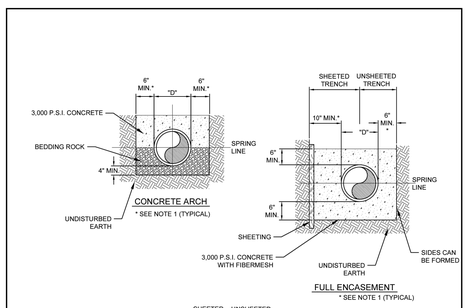
PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	APRIL 2023
PIPE EMBEDMENT- PRESSURE PIPE	SCALE :	NTS
	FIGURE :	G-7



FOR ROAD SURFACES - HIGH WATER TABLE | FOR ROAD SURFACES - LOW WATER TABLE

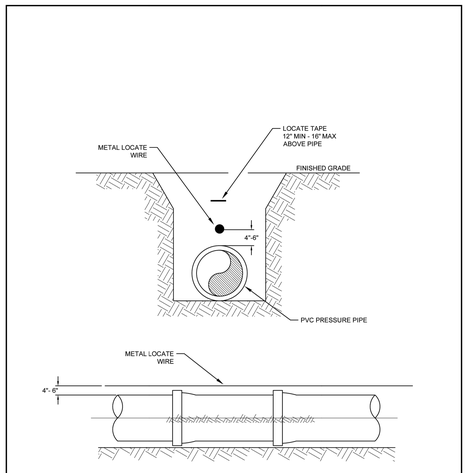
NOTES:
1. INSTALLATION: ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM D2321 AND MANUFACTURING INSTALLATION GUIDE.
2. FOUNDATION: UNSTABLE TRENCH BOTTOM MATERIAL AND / OR ROCK SHALL BE EXCAVATED TO A DEPTH SPECIFIED BY THE ENGINEER AND REPLACED WITH A SUITABLE MATERIAL PER THE ENGINEER REQUIREMENTS. IN LIEU OF OVER-EXCAVATION, THE DESIGN ENGINEER MAY SPECIFY THE USE OF GEOTEXTILE TO STABILIZE THE TRENCH BOTTOM.
3. BEDDING: SUITABLE MATERIAL SHALL BE ASTM CLASS I (#67 CRUSHED OR GRATED LIMEROCK). MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" - 24" DIAMETER PIPE, AND 6" FOR 30" - 60" DIAMETER PIPE, AND MECHANICALLY COMPACTED TO 95% STANDARD DENSITY.
4. HAUNCH: SUITABLE MATERIAL SHALL BE ASTM CLASS I (#67 CRUSHED OR GRATED LIMEROCK). HAND FILL VOIDS AND COMPACT TO 90% STANDARD DENSITY.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE ASTM CLASS I (#57 CRUSHED OR GRATED LIMEROCK FOR IMPROVED ROADWAY SURFACES AND CLASS II OR BETTER FOR UNIMPROVED SURFACES). INITIAL BACKFILL SHALL BE INSTALLED IN 6" LIFTS AND MECHANICALLY COMPACTED TO 95% STANDARD DENSITY. INITIAL BACKFILL SHALL EXTEND TO NOT LESS THAN 6" ABOVE THE TOP OF THE PIPE.
6. FINAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS III OR BETTER FOR UNIMPROVED SURFACES AND INSTALLED PER TYPICAL PIPE INSTALLATION DETAIL. SUITABLE MATERIAL SHALL BE ASTM CLASS II OR BETTER FOR ROADWAY SURFACES AND INSTALLED PER DETAIL.
7. WET TRENCHES: SUITABLE MATERIAL SHALL BE ASTM CLASS I (#67 CRUSHED OR GRATED LIMEROCK). BACKFILL SHALL BE INSTALLED IN 6" LIFTS AND MECHANICALLY TAMPED TO 90% MAXIMUM DENSITY AND SHALL EXTEND TO NOT LESS THAN 6" ABOVE THE TO OF THE PIPE OR TO THE CURRENT GROUND WATER LEVEL.
8. MINIMUM COVER: FOR ALL H-25 TRAFFIC BEARING APPLICATIONS, A MINIMUM COVER OF 12" IS REQUIRED FOR 4" - 48" DIAMETER PIPE, AND 24" FOR 60" DIAMETER PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE RIGID PAVEMENT SECTION OR TO THE BOTTOM OF FLEXIBLE PAVEMENT SYSTEM.
9. PIPE O.D. PLUS 24" FOR PIPES LESS THAN 18" - PIPE O.D. PLUS 32" FOR PIPES GREATER THAN 18"

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	APRIL 2023
PIPE EMBEDMENT - GRAVITY SEWER PIPE UNDER ROADWAYS	SCALE :	NTS
	FIGURE :	G-8



NOTES:
1. "D" = 12" MAX.
2. "D" REFERS TO THE DIAMETER OF THE PIPE.
3. USE OF CONCRETE ARCH, HALF ENCASEMENT, OR FULL ENCASEMENT TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	OCTOBER 2022
CONCRETE ARCH AND ENCASEMENT	SCALE :	NTS
	FIGURE :	G-9



NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 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 24" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	OCTOBER 2022
LOCATE TAPE AND WIRE FOR PVC PRESSURE PIPE	SCALE :	NTS
	FIGURE :	G-10

PIPE JOINT RESTRAINT TABULATION
(ALL RESTRAINT JOINT LENGTHS SHOWN ARE IN FEET)
SOURCE: EBAA RESTRAINT JOINT CALCULATOR V7.1.2

HORIZONTAL BENDS
EVERY JOINT WITHIN THE LENGTH SPECIFIED BELOW (IN FEET) SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING

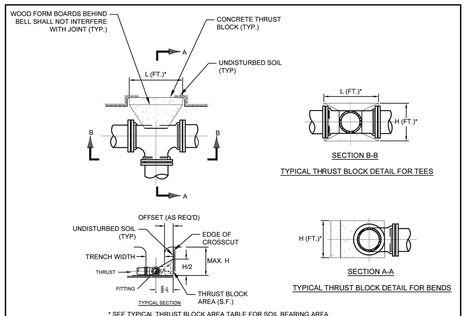
PIPE SIZE AND TYPE	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.	DEAD ENDS
3" PVC	17	7	4	2	36
4" PVC	18	8	4	2	39
6" PVC	25	11	5	3	55
8" PVC	33	14	7	4	72
10" PVC	39	16	8	4	87
12" PVC	45	19	9	5	102
14" PVC	52	22	11	6	119
16" PVC	57	24	12	6	131
18" PVC	63	26	13	7	145
20" PVC	68	29	14	7	159
24" PVC	79	33	16	8	185

SMALLER PIPE SIZE		3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
REDUCER (LARGER PIPE RESTRAINT)	3"	-	-	-	-	-	-	-	-	-	-
	4"	13	-	-	-	-	-	-	-	-	-
	6"	37	29	-	-	-	-	-	-	-	-
	8"	59	52	31	-	-	-	-	-	-	-
	10"	76	71	53	29	-	-	-	-	-	-
	12"	93	89	74	54	30	-	-	-	-	-
	14"	111	107	95	78	57	31	-	-	-	-
	16"	124	121	111	96	78	56	30	-	-	-
	18"	139	136	127	114	98	79	56	30	-	-
	20"	154	151	143	131	117	100	79	56	30	-

BRANCH SIZE		3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
TEE (BRANCH RESTRAINT)	3"	18	-	-	-	-	-	-	-	-	-
	4"	12	21	-	-	-	-	-	-	-	-
	6"	1	12	37	-	-	-	-	-	-	-
	8"	1	3	31	54	-	-	-	-	-	-
	10"	1	1	24	49	68	-	-	-	-	-
	12"	1	1	18	44	64	83	-	-	-	-
	14"	1	1	11	39	60	80	100	-	-	-
	16"	1	1	3	33	55	76	96	112	-	-
	18"	1	1	1	27	50	72	93	109	125	-
	20"	1	1	1	21	45	68	89	105	122	139

NOTES :
1. TEST PRESSURE=150 PSI, SOIL GROUP=SM, TRENCH TYPE=3, DEPTH=3, SAFETY FACTOR=1.5; ACTUAL FIELD CONDITIONS MAY VARY
2. RESTRAINED LENGTHS FOR VERTICAL OFFSETS MUST BE INDIVIDUALLY CALCULATED.
3. MINIMUM PIPE LENGTH ALONG TEE RUN=5FEET OR LARGER.
4. ALWAYS ROUND UP PARTIAL LENGTHS TO THE NEXT PIPE JOINT.
5. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
6. ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 150 PSI TEST PRESSURE IN EITHER DIRECTION.
7. IF THE TEE BRANCH DIAMETER IS LARGER THAN THE RUN DIAMETER, THE ENGINEER OF RECORD MUST SPECIFY THE RESTRAINT LENGTHS.
8. FOR HOT TAPS THE MAIN LINE SHALL BE RESTRAINED A MIN OF 20 FT IN EACH DIRECTION WITH BELL RESTRAINTS IF NOT RESTRAINED IN EXISTING STATE.

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	APRIL 2023
RESTRAINED JOINT TABLE FOR PVC PRESSURE PIPE	SCALE :	NTS
	FIGURE :	G-11



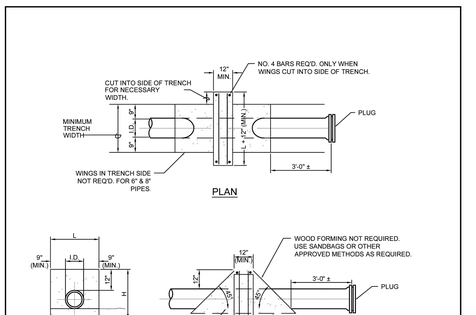
* SEE TYPICAL THRUST BLOCK AREA TABLE FOR SOIL BEARING AREA

TYPICAL THRUST BLOCK AREA @ 150 PSI, SOIL BEARING PRESSURE OF 1500 PSF, F.S. = 1.5

INSIDE DIA. PIPE LINE IN INCHES	90° BENDS	TEES, DEAD ENDS, OR 45° BENDS	22½° BENDS
4"	2.7	2.0	7.5
6"	6.0	4.2	1.7
8"	10.7	7.5	3.0
10"	16.7	11.9	4.7
12"	24.0	17.0	6.6
16"	42.6	30.2	11.7
18"	54.0	38.1	14.9
20"	66.6	47.1	18.5
24"	96.0	67.8	26.6
30"	150	106	41.4

NOTES:
1. LOCATION OF THRUST BLOCK INSTALLATION SHALL BE DETERMINED IN THE FIELD
2. CONCRETE THRUST BLOCK SIZE TO SUIT ACTUAL SOIL CONDITIONS IN THE FIELD. SEE TABLE FOR MINIMUM THRUST BLOCK AREA.
3. 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.
4. EXTEND THRUST BLOCK THE FULL LENGTH OF FITTINGS. JOINTS SHALL NOT BE COVERED BY THRUST BLOCKS. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM (24 MIL) PRIOR TO PLACING CONCRETE THRUST BLOCK.
5. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS, AS REQUIRED.
6. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT.
7. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE AND/OR SOIL RESISTANCE BEARING IS LESS THAN 1,500 PSF.
8. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	APRIL 2023
THRUST BLOCKERS FOR UNRESTRAINED PIPE FITTINGS	SCALE :	NTS
	FIGURE :	G-14



NOTES:
1. 3,000 PSI CONCRETE WITH FIBERMESH

PANAMA CITY, FLORIDA STANDARD DETAILS	DATE :	APRIL 2023
ANCHOR BLOCK FOR 6" AND LARGER PIPE	SCALE :	NTS
	FIGURE :	G-15

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August 28, 2025 (09:24:57 EST)
K:\50186685.000_DAG_GCSC NURSING AND SIMULATION CENTER_CIVIL\DT\FILDER_PRODUCTION\50186685_NOTES-DETAILS.DWG C-203 UTILITY DETAILS BY: MHURST

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0006794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

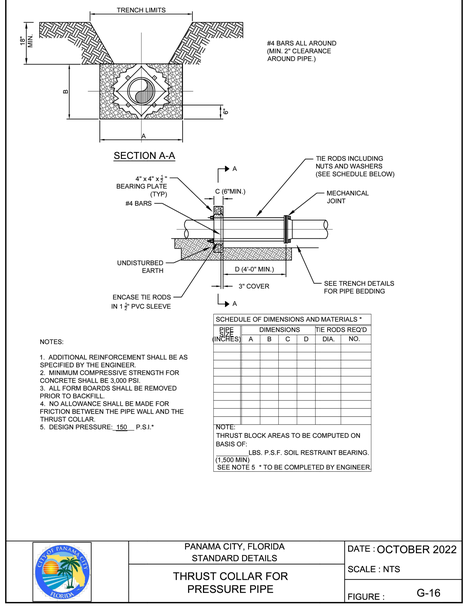
REVISIONS

NO.	DESCRIPTION	DATE

Project Number 50186685
Dated 08.29.2025

UTILITY DETAILS

C-203

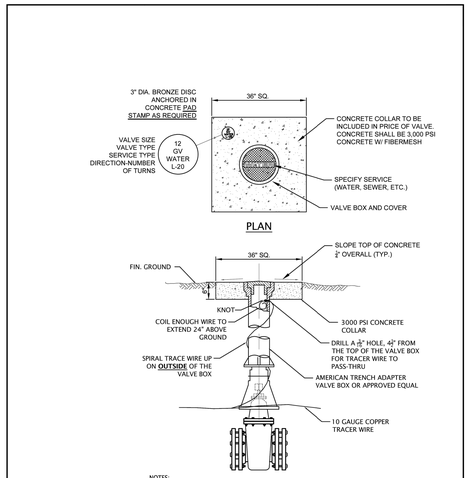


SCHEDULE OF DIMENSIONS AND MATERIALS *							
PIPE SIZE (INCRES)	DIMENSIONS					TIE RODS REQ'D	
	A	B	C	D		DIA.	NO.

NOTE:
THRUST BLOCK AREAS TO BE COMPUTED ON BASIS OF:
_____ LBS. P.S.F. SOIL RESTRAINT BEARING.
(1,500 MIN)
SEE NOTE 5 * TO BE COMPLETED BY ENGINEER.

NOTES:
1. ADDITIONAL REINFORCEMENT SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3,000 PSI.
3. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
4. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
5. DESIGN PRESSURE: 150 P.S.I.*

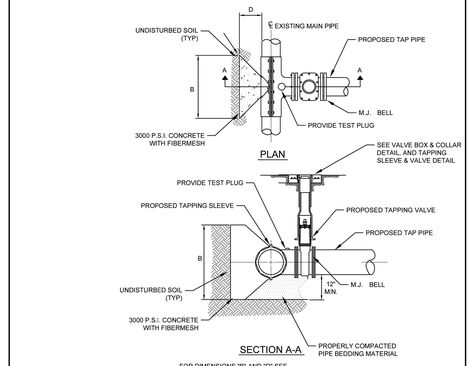
	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : OCTOBER 2022
	THRUST COLLAR FOR PRESSURE PIPE	SCALE : NTS
		FIGURE : G-16



NOTES:
1. SEE SPECIFICATIONS FOR TECHNICAL REQUIREMENTS AND APPROVED GATE VALVES AND VALVE BOXES.
2. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
3. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 2 FOOT DEPTH BELOW FINISHED GRADE.

SECTION

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : OCTOBER 2022
	VALVE BOX AND COLLAR	SCALE : NTS
		FIGURE : G-21



FOR DIMENSIONS "B" AND "D" SEE THRUST BLOCK REQUIREMENTS

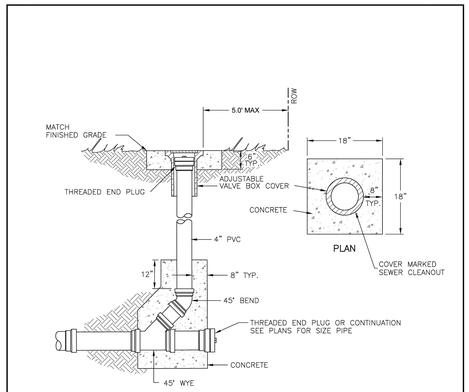
NOTES:
1.) NO CUTS SHALL BE MADE BEFORE:
(A) A TEST ON THE SLEEVE AT 150 P.S.I. FOR 30 MINUTES IS MADE.
(B) ALL FITTINGS TO BE WRAPPED WITH 24 MIL POLYETHYLENE AT THE THRUST BLOCK
(C) ALL TAPS ARE TO BE MADE BY THE CITY OF PANAMA CITY UTILITIES DEPT. UNLESS OTHER ARRANGEMENTS ARE MADE. THE MATERIAL IS TO BE FURNISHED BY THE INFRASTRUCTURE 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 ONE (1) MAIN PIPE DIAMETER PLUS TWO (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.
3.) CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : APRIL 2023
	TAPPING SLEEVE AND VALVE BLOCKING	SCALE : NTS
		FIGURE : G-23

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 RESIDENCE 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 AREA. 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 AREA.
6. ALL DISTURBED YARD AND GRASSED AREAS SHALL BE SODDED WITH ZOYSIA.
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 ℄ HORIZONTAL SEPARATIONS CANNOT BE MAINTAINED BETWEEN EXISTING 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 ADEQUACY. 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 FLOWABLE FILLED. 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.
25. THE CONTRACTOR SHALL VIDEO THE ENTIRE ROUTE PRIOR TO CONSTRUCTION AND PROVIDE A COPY TO THE ENGINEER PRIOR TO CONSTRUCTION.
26. DEMOLITION NOTE: ALL EXISTING WATER/SEWER UTILITIES TO BE ABANDONED MUST BE CAPPED IN THE PRESENCE OF PANAMA CITY STAFF. THE GRAVITY MAIN IN THE PUBLIC RIGHT-OF-WAY ADJACENT TO THE PROPERTY MUST BE VIDEO TAPED AND A COPY SUBMITTED TO THE CITY OF PANAMA CITY FOR VERIFICATION OF EXISTING SERVICE LOCATIONS PRIOR TO DEMOLITION.
27. ALL WATER MAIN TAPS AND AND CONNECTIONS TO THE EXISTING SYSTEM REQUIRES NOTIFICATION 72-HOURS IN ADVANCE TO THE CITY OF PANAMA CITY UNDERGROUND UTILITIES DEPARTMENT(850-872-3165).

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : APRIL 2023
	PUBLIC R.O.W. UTILITY CONSTRUCTION NOTES	SCALE : NTS
		FIGURE : G-27

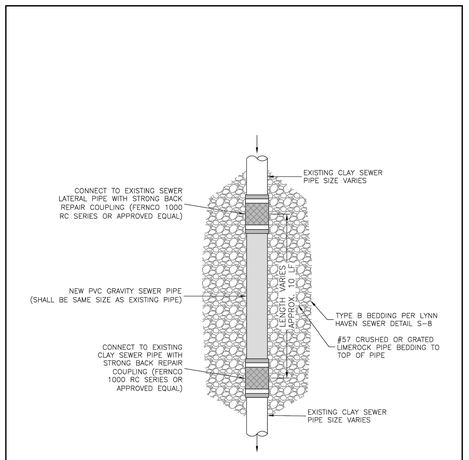


TYPICAL SEWER SERVICE CLEANOUT
NOT TO SCALE

NOTE:

1. SEWER LATERALS NOT BEING CONNECTED TO AN EXISTING SERVICE SHALL BE CAPPED 6' MIN. FROM THE CLEANOUT.
2. CLEANOUTS ARE REQUIRED AT EACH CHANGE OF DIRECTION GREATER THAN 45° AND AT A MAX SPACING OF 100 FT.
3. ALL CLEAN OUTS SHALL BE COVERED WITH CAST IRON CLEANOUT BOX MARKED C.O.

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : MARCH 2022
	TYPICAL SEWER SERVICE CLEANOUT	SCALE : NTS
		FIGURE : SR-1



CLAY GRAVITY SEWER MAIN POINT REPAIR
NOT TO SCALE

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : MARCH 2022
	CLAY GRAVITY SEWER MAIN POINT REPAIR	SCALE : NTS
		FIGURE : SR-3

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0006794

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

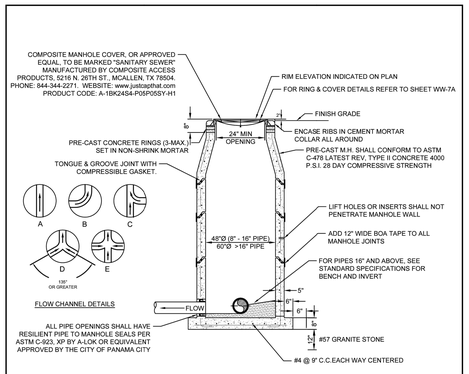
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	50186685
Dated	08.29.2025

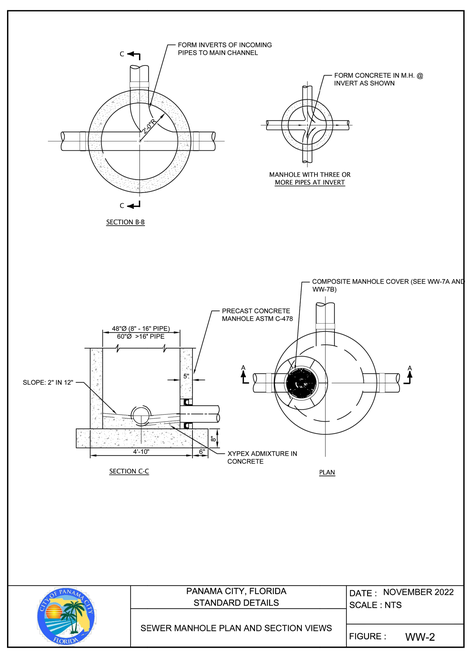
UTILITY DETAILS

C-204

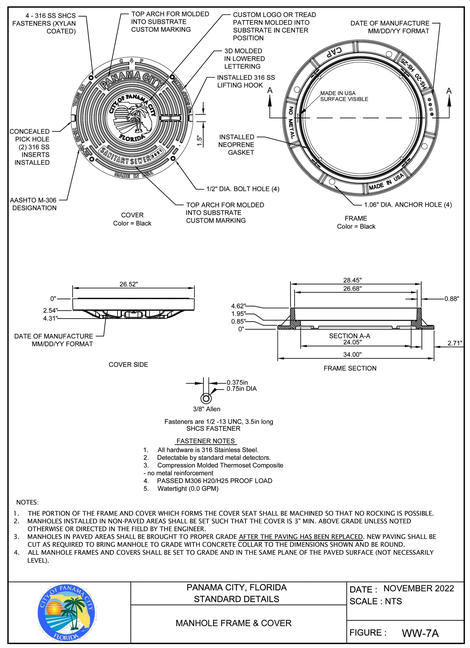


NOTES:
1. PRE-CAST M.H. SHALL CONFORM TO ASTM C-478 LATEST REV, TYPE II CONCRETE 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH.
2. AN APPROVED LINER, SEE SPECIFICATION SECTION 02574, SHALL BE PROVIDED FOR DROP MANHOLES, MANHOLES WITH OPPOSING FLOW (DETAILS D & E) MANHOLES IMMEDIATELY UPSTREAM OF A LIFT STATION WET WELL, MANHOLES WITH GRAVITY SEWERS GREATER THAN OR EQUAL TO 12 INCHES IN DIAMETER, MANHOLES RECEIVING A FORCE MAIN AND THE FIRST TWO GRAVITY MANHOLES DOWNSTREAM OF MANHOLES RECEIVING A FORCE MAIN.
3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE FROM PLASTIC GASKET OR EQUIVALENT.
4. ALL PATCHING TO BE PREFORMED WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.
5. NEW MANHOLES SHALL BE PROVIDED WITH A 6" FLOTATION RING.
6. NEW MANHOLES ARE TO RECEIVE A 12" THICK #57 LIMESTONE FOUNDATION.
7. XYPEX CONCRETE ADMIXTURE SHALL BE USED IN ALL NEW MANHOLES. XYPEX ADMIXTURE SHALL BE C-1000R (RED): 3.5% BY WEIGHT OF PORTLAND CEMENT CONTENT.
8. NEW MANHOLE JOINTS SHALL BE WRAPPED WITH A 12" WIDE BOA JOINT TAPE OR APPROVED EQUIVALENT.
9. EXISTING PIPE EXTENSIONS TO NEW MANHOLES SHALL BE MADE USING A COUPLING MANUFACTURED BY INDIANA SEAL WITH "SHEAR GUARD" OR APPROVED EQUIVALENT.
10. FIELD CORES FOR CONNECTIONS TO EXISTING OR NEW MANHOLES SHALL BE CUT USING A ROTARY CORE DRILL AND SHALL INCLUDE A "KOR-N-SEAL" FLEXIBLE CONNECTION AS MANUFACTURED BY TRELLEBORG OR APPROVED EQUIVALENT.
11. ALL MANHOLES SHALL BE TESTED PER SPECIFICATION SECTION 02510.

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : APRIL 2023 SCALE : NTS
	SANITARY SEWER MANHOLE	FIGURE : WW-1



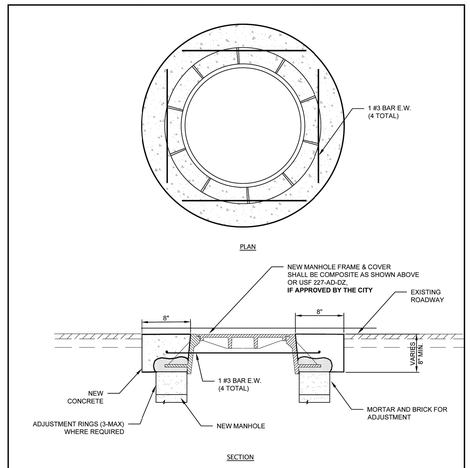
	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : NOVEMBER 2022 SCALE : NTS
	SEWER MANHOLE PLAN AND SECTION VIEWS	FIGURE : WW-2



FASTENER NOTES:
1. All hardware is 316 Stainless Steel.
2. Detectable by standard metal detectors.
3. Compression Molded Thermoset Composite - no metal reinforcement
4. PASSED M306 H20/H25 PROOF LOAD
5. Watertight (0.0 GPM)

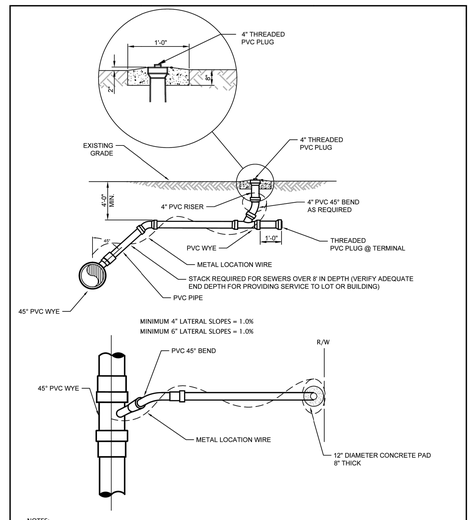
NOTES:
1. THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.
2. MANHOLES INSTALLED IN NON-PAVED AREAS SHALL BE SET SUCH THAT THE COVER IS 3" MIN. ABOVE GRADE UNLESS NOTED OTHERWISE OR DIRECTED IN THE FIELD BY THE ENGINEER.
3. MANHOLES IN PAVED AREAS SHALL BE BROUGHT TO PROPER GRADE AFTER THE PAVING HAS BEEN REPLACED. NEW PAVING SHALL BE CUT AS REQUIRED TO BRING MANHOLE TO GRADE WITH CONCRETE COLLAR TO THE DIMENSIONS SHOWN AND BE ROUND.
4. ALL MANHOLE FRAMES AND COVERS SHALL BE SET TO GRADE AND IN THE SAME PLANE OF THE PAVED SURFACE (NOT NECESSARILY LEVEL).

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : NOVEMBER 2022 SCALE : NTS
	MANHOLE FRAME & COVER	FIGURE : WW-7A



NOTES:
1. THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.
2. MANHOLES INSTALLED IN NON-PAVED AREAS SHALL BE SET SUCH THAT THE COVER IS 3" MIN. ABOVE GRADE UNLESS NOTED OTHERWISE OR DIRECTED IN THE FIELD BY THE ENGINEER.
3. MANHOLES IN PAVED AREAS SHALL BE BROUGHT TO PROPER GRADE AFTER THE PAVING HAS BEEN REPLACED. NEW PAVING SHALL BE CUT AS REQUIRED TO BRING MANHOLE TO GRADE WITH CONCRETE COLLAR TO THE DIMENSIONS SHOWN AND BE ROUND.
4. ALL MANHOLE FRAMES AND COVERS SHALL BE SET TO GRADE AND IN THE SAME PLANE OF THE PAVED SURFACE (NOT NECESSARILY LEVEL).

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : NOVEMBER 2022 SCALE : NTS
	MANHOLE FRAME & COVER ADJUSTMENT	FIGURE : WW-7B



NOTES:
1) FOR NEW CONSTRUCTION, MARK SEWER LATERAL LOCATION IN THE FRESHLY POURED CONCRETE CURB
2) SUBMIT "AS BUILT" OF MAIN LINE, LATERALS AND MANHOLE LOCATIONS WITH TWO (2) OFFSET DISTANCES EACH.
3) SINGLE "HOUSE" CONNECTIONS ONLY
4) PIPE AND FITTINGS SHALL BE PUSH ON JOINT
5) PVC PIPE SHALL REQUIRE INSULATED METAL LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : JULY 2023 SCALE : NTS
	TYPICAL WYE & LATERAL INSTALLATION	FIGURE : WW-8

GRAVITY SEWER INSTALLATION RELATED ITEMS:
1. ALL GRAVITY SEWER PIPE, MANHOLES, SERVICE LATERALS AND PIPE BEDDING SHALL BE INSTALLED ACCORDING TO 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" 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 . ALL SEWER SERVICE LATERAL 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 OTHER WISE. 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 NGVD.
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 DRAWN.

	PANAMA CITY, FLORIDA STANDARD DETAILS	DATE : NOVEMBER 2022 SCALE : NTS
	GRAVITY SEWER INSTALLATIONS GENERAL REQUIREMENTS	FIGURE : WW-10

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

J. MORGAN HURST, P.E. 60813
EB 0008794

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Digital Signature

BID DOCUMENTS

Dewberry
203 Aberdeen Parkway
Panama City, FL 32405
850.522.0644

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

0' 15' 30' 60'
SCALE: 1" = 30'

REVISIONS

NO.	DESCRIPTION	DATE

Project Number 50186685
Dated 08.29.2025

UTILITY DETAILS

C-205

August 28, 2025 (09:24:57 EST)
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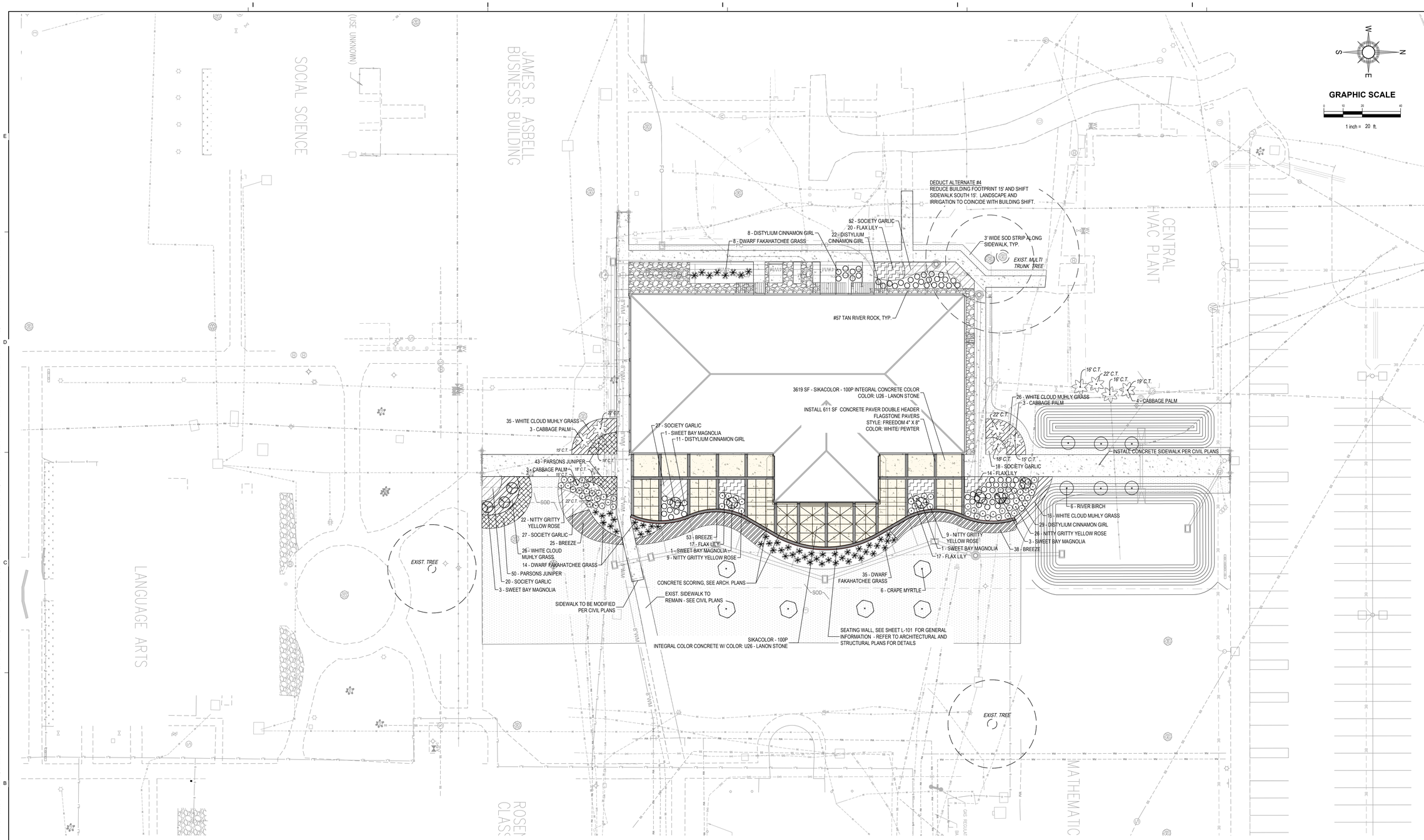

PLANTING SCHEDULE

	QTY	BOTANICAL NOMENCLATURE	COMMON NAME	SIZE	SPACING/REMARKS
TREES					
	6	BETULA NIGRA 'BNMTF' DURA-HEAT	DURA-HEAT RIVER BIRCH	FG	12' HT X 5'-6' SPR, MULTI-TRUNK
	6	LAGERSTROEMIA INDICA 'TUSKAGEE'	TUSKAGEE CRAPE MYRTLE	100 GAL	13' HT X 6'-7' SPR, 3" CAL
	9	MAGNOLIA VIRGINIANA 'SILVER MIST'	SWEET BAY MAGNOLIA	65 GAL	7' HT X 3' SPR, MULTI-TRUNK
	13	SABAL PALMETTO "REGENERATED ROOTS'	CABBAGE PALM	FG	15'-22' CLEAR TRUNK, SLICK
SHRUBS					
	70	DISTYLIUM 'PIIDIST-V' PP27631	DISTYLIUM CINNAMON GIRL	3 GAL	12" HEIGHT, FULL, 36" OC
	116	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE	3 GAL	18" HEIGHT, FULL, 36" OC
	103	MUHLENBERGIA CAPILLARIS 'WHITE CLOUD'	WHITE CLOUD MUHLY GRASS	3 GAL	12" HT X 10" SPR, 36" OC
	66	ROSA X 'RUIR0109A' PP #33134	NITTY GRITTY YELLOW ROSE	3 GAL	10" HT X 12" SPR, 36" OC
	57	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE GRASS	3 GAL	12" HT X 14" SPR, 36" OC
GROUNDCOVER					
	93	DIANELLA TASMANICA	FLAX LILY	1 GAL	24" OC, FULL FOLIAGE
	93	JUNIPERUS SHINENSIS 'PARSONII'	PARSONS JUNIPER	3 GAL	8" - 10" HT, 24" OC
	144	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL	12" HT, 18" OC
	1970 SY	EREMOCHLOA OPHIUROIDES	ZOYSIA 'EL TORO'	SOD	12" X 24" RECTANGLES
	165 SY	DECORATIVE ROCK	#57 TAN RIVER ROCK		4" MIN DEPTH
		MULCH	PINE STRAW		3" MIN DEPTH

GRAPHIC SCALE

0 10 20 40

1 inch = 20 ft.

DAG Architects

AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

Tullo Planning Group

LAND USE PLANNING
LANDSCAPE ARCHITECTURE

PO Box 27601, Panama City Beach, Florida 32411
gtullo@tulloplanning.com (850) 527-0653
www.tulloplanning.com

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**

Dated 08.29.2025

LANDSCAPE PLAN

L-100

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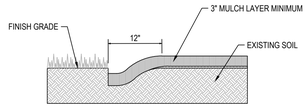
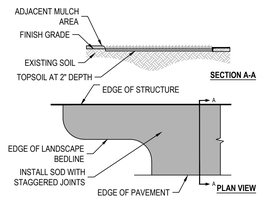


MULCH ON GRADE AREAS

NOT TO SCALE



TYPICAL SOD INSTALLATION

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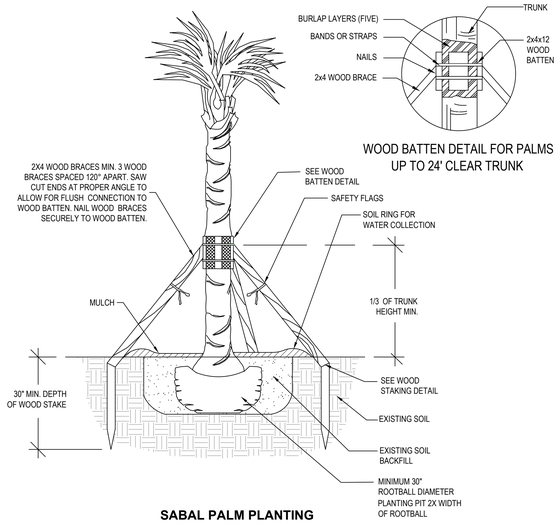

WOOD BATTEN DETAIL FOR PALMS UP TO 24' CLEAR TRUNK

SABAL PALM PLANTING

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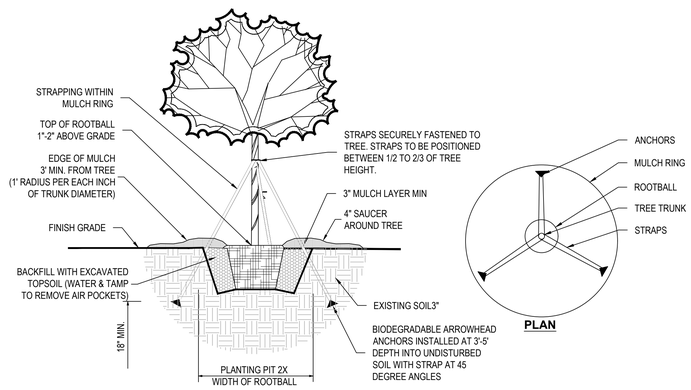

TREE PLANTING DETAIL

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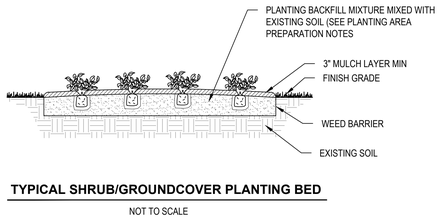

TYPICAL SHRUB/GROUNDCOVER PLANTING BED

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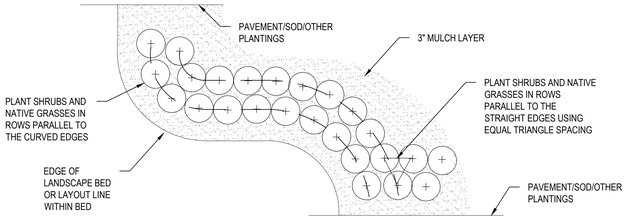

LAYOUT DETAIL - TYPICAL SHRUB WITH ON CENTER SPACING

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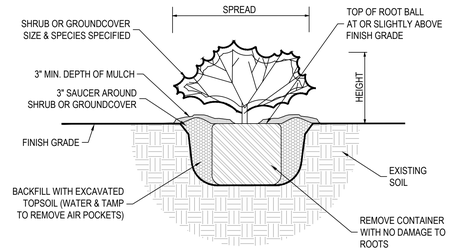

SHRUB AND GROUNDCOVER DETAIL

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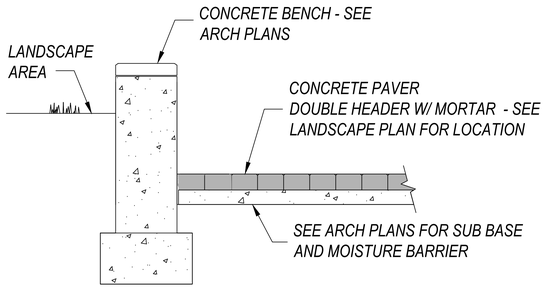

CONCRETE HEADER DETAIL

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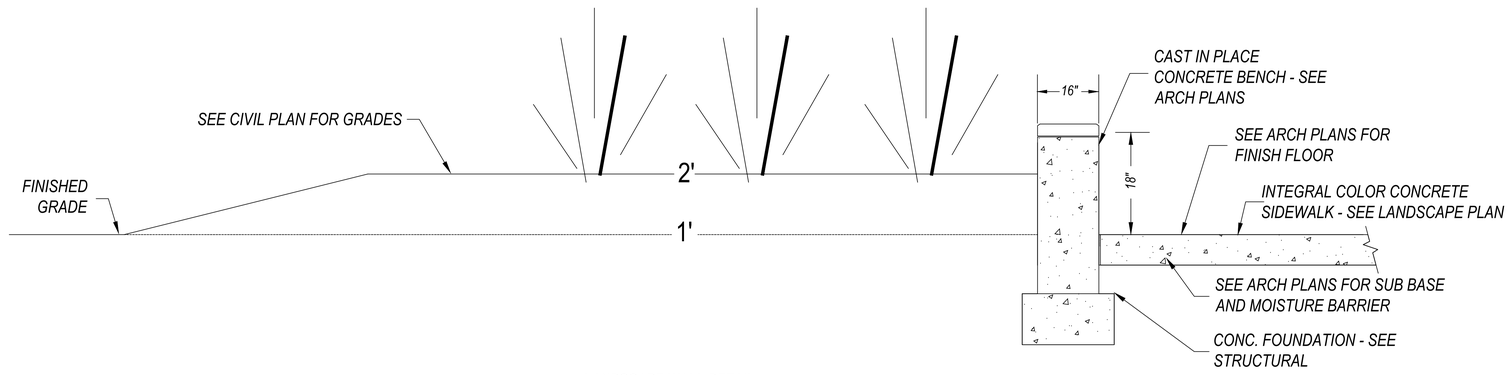

LANDSCAPE WALL DETAIL

NOT TO SCALE

NOTE:

1. *COORDINATE PLACEMENT WITH CONCRETE INSTALLATION TO ENSURE ACCURATE DIMENSIONS FOR INSTALLATION OF SPECIFIED PATTERN AND PAVER TYPE..*
2. *PAVERS SHALL BE LAID IN A DOUBLE HEADER PATTERN AND LAID OUT TO AVOID HAVING SMALL SLIVERS NEAR TERMININUS POINTS.*
3. *LAY ALL PAVERS AND CUT LAST EDGE PAVER TO FIT SPACE NEXT TO THE EDGE CONSTRAINT.*
4. *ALL PAVERS SHALL BE LAID TO ENSURE POSITIVE DRAINAGE.*
5. *FILL VOIDS IN JOINTS BY SWEEPING IN A FINE, DRY MASONRY SAND (BRUSH OFF EXCESS).*
6. *INSTALL PAVER MATERIAL AS PER MANUFACTURERS SPECIFICATIONS.*
7. *FINISH GROUND ELEVATIONS SHALL PROVIDE POSITIVE DRAINAGE WITHIN PLAZA - REFER TO CIVIL PLANS FOR GRADING.*

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

Tullo Planning Group
LAND USE PLANNING
LANDSCAPE ARCHITECTURE
PO Box 27601, Panama City Beach, Florida 32411
gtullo@tulloplanning.com (850) 527-0653
www.tulloplanning.com

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**

Dated 08.29.2025

LANDSCAPE DETAILS

L-101

PROJECT NOTES

1. QUANTITIES ON LANDSCAPE PLAN ARE MINIMUM ONLY. CONTRACTOR IS RESPONSIBLE FOR HIS OWN QUANTITY TAKE-OFF, AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL PLANT BED AREA AT SPACING ON PLANT SCHEDULE.

2. PLANS REFLECT ESTIMATE OF EXISTING UTILITIES AND THEIR LOCATION. CONTRACTOR IS RESPONSIBLE FOR CONTACTING 811 SUNSHINE PRIOR TO ANY DIGGING FOR UTILITY LOCATIONS.

3. NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF 5 BUSINESS DAYS PRIOR TO DELIVERY OF PLANT MATERIAL SO THAT A REPRESENTATIVE MAY BE PRESENT TO VERIFY PLANT MATERIAL MEETS PROJECT REQUIREMENTS. AFTER INITIAL ACCEPTANCE, THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND MAINTENANCE OF ALL PLANTS DURING THE INSTALLATION AND ESTABLISHMENT PERIODS. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO REPLACEMENT, PRUNING, WATERING, FERTILIZATION AND PEST AND DISEASE MANAGEMENT. MAINTAIN ALL PLANT MATERIAL TO THE ORIGINAL STANDARDS.

4. ADJUST LANDSCAPE MATERIAL AND ASSOCIATED DEVICES IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING TO REMAIN STRUCTURES OR REGULATORY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, UTILITY STRUCTURES, DRAINAGE STRUCTURES, DRAINAGE DISCHARGE PATHS, AND LIGHTING. DO NOT KNOWINGLY PLACE THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR AND/OR RELOCATE WORK PLACED THAT HAS NOT BEEN APPROVED SHALL BE AT THE CONTRACTOR'S EXPENSE.

5. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY UNFORESEEN SITE CONDITIONS (OBSTRUCTIONS, UTILITY, ETC.) PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION. THE LANDSCAPE ARCHITECT WILL REVIEW PLANT RELOCATION OR OTHER ACTION PROPOSED BY THE CONTRACTOR.

LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK
   A. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
   B. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS AS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

2. PROTECTION OF EXISTING STRUCTURES
   A. EXISTING WALKS TO REMAIN, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
   B. WORK WITHIN 15 FT OF EXISTING TREES TO REMAIN SHALL BE PERFORMED BY HAND. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN, SHARP TOOLS.

3. MATERIALS
   A. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS PART I AND II. DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS FOR NURSERY STOCK.

   B. CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.

   C. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LONG TERM HEALTH AND VIABILITY OF PLANT MATERIAL, DETERMINE, AT A MINIMUM, SITE CONDITIONS, PLANT MATERIAL AVAILABILITY, SOIL ANALYSIS/AMENDMENTS, FERTILIZER APPLICATION RATES, MYCORRIHZAL SOIL INOCULATE APPLICATION RATES AND WATERING REQUIREMENTS.

   D. WARRANT ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. REMOVE AND REPLACE TREES, SHRUBS OR OTHER PLANTS FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD. PLANT MISSING TREES, SHRUBS AND GROUND COVER. MAKE REPLACEMENTS DURING GROWTH SEASON FOLLOWING END OF WARRANTY PERIOD, OR AS REQUESTED BY OWNER. FURNISH AND PLANT REPLACEMENTS WHICH COMPLY WITH REQUIREMENTS SHOWN AND SPECIFIED.

4. SOIL MIXTURE
   A. COLLECT SOIL SAMPLES AND SEND TO AN AGRONOMIC SOILS TESTING LABORATORY. ANALYSIS TO INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS & RECOMMENDATIONS ALONG WITH PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO THE LANDSCAPE ARCHITECT.

   B. "BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMMERCIALLY PROCESSED AND COMPOSTED COW MANURE AND 1/3 COMPOSTED BARK.

5. FERTILIZER
   THE FOLLOWING APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL;
   A. ASSUME THE FOLLOWING CONCERNING FERTILIZER:
      FOR INITIAL INSTALLATION OF TREES AND SHRUBS: FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES TO BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.

6. MYCORRHIZAL INOCULANT FOR PLANTING PITS AND SOD
   USE AND APPLY SOIL INOCULANT PER MANUFACTURER RECOMMENDATIONS TO EACH PLANTING PIT. THE INOCULANT IS TO BE SLOW RELEASE AND CONTAIN BOTH ENDO AND ECTOMYCORRHIZAL INOCULANTS COMBINED WITH HUMIC ACIDS, TRICHODERMA, STIMULANTS, BENEFICIAL BACTERIA, SOLUBLE SEA KELP, YUCCA PLANT EXTRACTS, AND A WATER RETENTION GEL.

7. MULCH
   FOR PLANT BEDS, MULCH ON GRADE AREAS, AND INDIVIDUAL TREE RINGS WITH SPECIFED MULCH. UNIFORMLY SPREAD MULCH OVER THE FULL DIAMETER OF EACH PLANTING BED, MULCH ON GRADE AREA, AND INDIVIDUAL TREE RINGS. MULCH INCLUDES INITIAL INSTALLATION (3" DEPTH). DO NOT PLACE MULCH AGAINST TRUNKS OR STEMS OF PLANTS.

8. IRRIGATION
   PROVIDE AN AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE TO ALL NEW PLANTINGS.

9. FINAL INSPECTION/ACCEPTANCE OF WORK/WARRANTY
   A. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED WITHIN 2 WEEKS OR AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING PREPARATION" AT NO ADDITIONAL COST TO THE COLLEGE.

PLANTING AREA PREPARATION NOTES

1. LOCATE ALL UTILITIES PRIOR TO ANY DIGGING. ALL EXISTING UTILITIES AND STRUCTURES ARE NOT SHOWN ON PLANS. CONTRACTOR TO VERIFY ALL AREAS OF IMPROVEMENTS.

2. STAKE LOCATIONS AND LIMITS OF PLANTS AREAS TO REFLECT PLANS TO GREATEST EXTENT POSSIBLE. COORDINATE WITH THE LANDSCAPE ARCHITECT TO VIEW LAYOUT AND STAKING OF TREE LOCATIONS AND BED OUTLINES ON SITE. MAKE MODIFICATIONS AS MAY BE REQUESTED PER THE LANDSCAPE ARCHITECT.

3. HERBICIDE APPLICATION: BEGIN TURF SPRAYING PROCESS A MINIMUM 30 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS. 7 DAYS AFTER SPRAYING, CLOSE MOW TO 1" HEIGHT. 14 DAYS AFTER CLOSE MOWING, RE-SPRAY WITH GLYPHOSATE PER MANUFACTURER RECOMMENDATIONS. 7 DAYS AFTER RE-SPRAYING. LEAVE KILLED TURF IN PLACE FOR PROPOSED MULCH BEDS. PROPOSED INDIVIDUAL TREE RINGS DO NOT REQUIRE HERBICIDE APPLICATION.

4. WHERE INDIVIDUAL TREE/PALM RINGS , REMOVE SOD TO BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 4". REMOVE EXCAVATED MATERIAL FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. THOROUGHLY REMOVE TURF PRIOR TO THE PLANTING AND BACKFILL PROCESS.

5. FOR PROPOSED MULCH BEDS, AFTER SPRAYING WITH HERBICIDE, LEAVE KILLED TURF IN PLACE. REMOVE KILLED TURF ONLY AT EDGES OF BED, APPROXIMATELY 12" WIDTH, AS REQUIRED TO ESTABLISH A TAPERED DIFFERENCE IN GRADE SO THAT INSTALLED MULCH TO BE FLUSH TO 1" ABOVE ADJACENT TURF.

6. EXCAVATE PLANTING PITS AS DETAILED. TO ASSURE DRAINAGE/PERCOLATION OF PLANTING PITS PRIOR TO INSTALLATION, FILL SAMPLE TREE PITS WITH WATER AND OBSERVE PERCOLATION. HOLES TO PERCOLATE IN 30 MINUTES OR LESS. BRING DISCREPANCIES TO THE LANDSCAPE ARCHITECT'S ATTENTION.

7. FILL IN PLANTING PIT WITH PLANTING BACKFILL MIXTURE.

8. PLACE THE ROOTBALL ON PLATEAU WITHIN PIT, MAKING SURE THE TOP OF ROOTBALL IS 1"-2" HIGHER THAN THE SURROUNDING SOIL.

9. FILL IN PLANTING PIT WITH BACKFILL MIXTURE.

10. INSTALL MYCORRHIZAL INOCULANT PER MANUFACTURER RECOMMENDATIONS.

11. FILL PLANTING HOLE WITH PLANTING BACKFILL MIX IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL WITH THE TOP OF ROOTBALL 1"-2" ABOVE FINISHED GRADE. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS.

12. BUILD SAUCER TO CONTAIN WATER AROUND EACH PLANTING PIT. REMOVE EXCESS EXCAVATED SOIL FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER.

13. ESTABLISH FINISHED PRE-MULCHING GRADE.

14. APPLY PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS. USE SUITABLE ACTIVE INGREDIENTS FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. APPLY HERBICIDE BY HAND. STRICTLY ADHERE TO MANUFACTURER RECOMMENDATIONS FOR APPLICATION METHOD, TIMING AND APPLICATION RATE.

15. SPREAD MULCH AROUND INDIVIDUAL TREE/PALM RINGS AND ACROSS MULCH BEDS TO A DEPTH OF 3".

16. INSTALL SOD IN ANY DISTURBED AREA NOT CONTAINING NEW PLANTINGS. BUTT SOD PIECES TOGETHER CLOSELY, IF NEEDED. ENSURE EDGES ARE TRIMMED EVENLY AND SOD IS ROLLED TO AN EVEN FINISHED GRADE AND APPEARANCE.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

LAND USE PLANNING
LANDSCAPE ARCHITECTURE
PO Box 27601, Panama City Beach, Florida 32411
gtullo@tulloplanning.com (850) 527-0653
www.tulloplanning.com

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

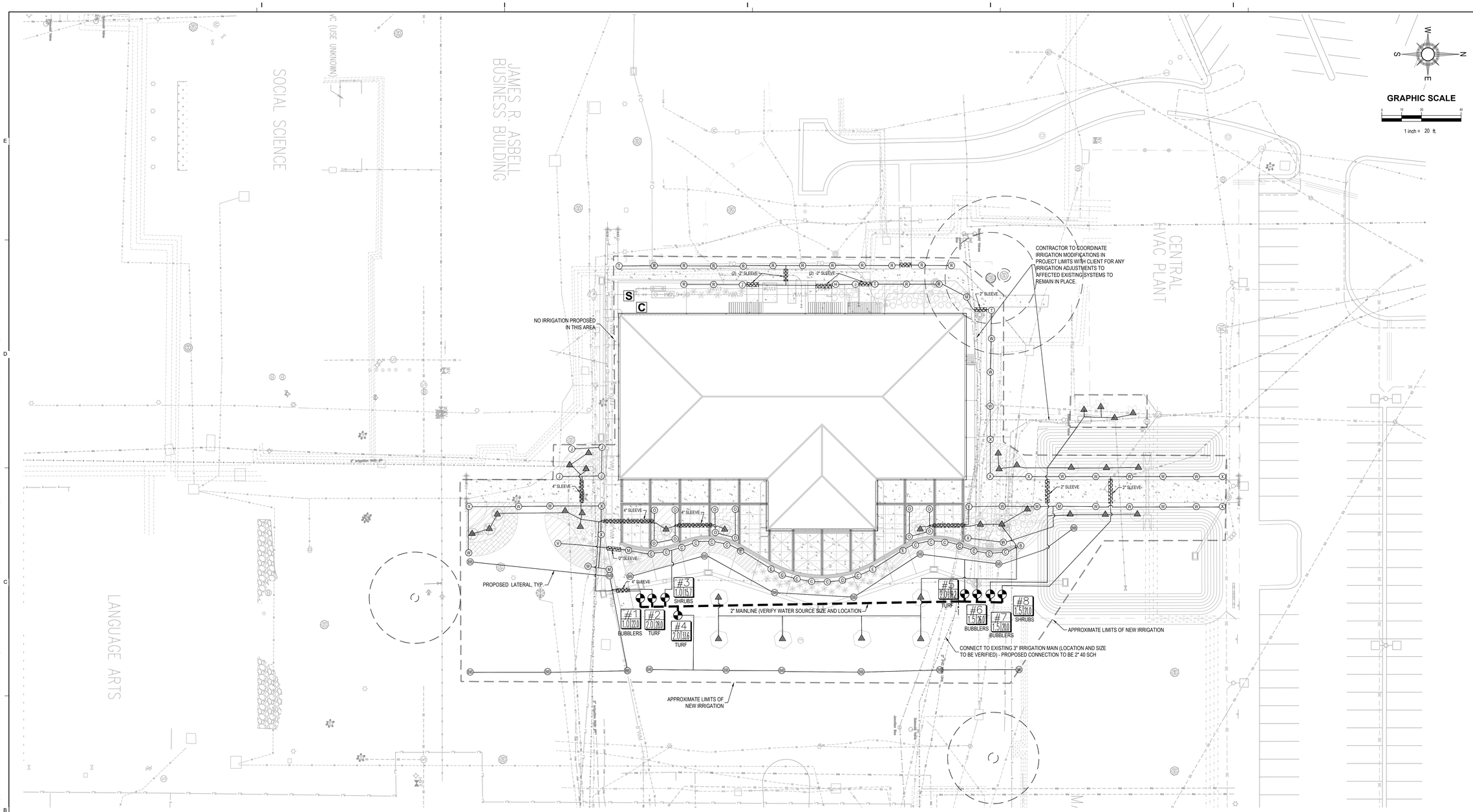
REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

LANDSCAPE NOTES

L-102



IRRIGATION NOTES AND SPECIFICATIONS

1. AN IRRIGATION SYSTEM PROVIDING 100% COVERAGE SHALL BE PROVIDED BY CONTRACTOR TO ALL NEW LANDSCAPE AREAS.
2. ALL SECONDARY (CIRCUIT) IRRIGATION LINES 1 INCH DIAMETER TO 3 INCH DIAMETER SHALL BE CLASS 160 PVC. CIRCUIT WATER LINES 1/2 INCH TO 3/4 INCH DIAMETER SHALL BE CLASS 315 PVC. SECONDARY IRRIGATION LINES SHALL BE INSTALLED WITHIN THE LANDSCAPED AREA AT A MINIMUM DEPTH OF 12 INCHES. POP-UP SPRINKLER HEADS MUST BE UTILIZED WITHIN ANY MOWABLE AREA.
3. THE IRRIGATION CONTRACTOR SHALL REVIEW THE PLANTING PLANS TO DETERMINE THE PROPOSED PLANT MATERIALS FOR EACH HEAD LOCATION PRIOR TO BIDDING.
4. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING HEAD INSTALLATION TYPES, DEPENDING ON THE FINAL LOCATIONS OF ALL PLANT MATERIAL.
5. ALL SPRINKLER HEADS ARE TO BE INSTALLED WITH A 18 INCH MINIMUM LENGTH OF FLEXIBLE PVC PIPE, USING STANDARD PVC FITTINGS.
6. ALL HEADS SHALL BE ADJUSTED TO REDUCE WATER WASTE ON HARD SURFACES AND WALLS.
7. THE IRRIGATION CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING UTILITIES. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED AS A RESULT OF HIS OR HER WORK.
8. ALL LOW VOLTAGE DIRECT BURIED WIRING SHALL BE UL APPROVED, TYPE UF AND A MINIMUM SIZE OF #14 AWG. THE COMMON WIRE SHALL BE WHITE AND ALL WIRING SHALL BE THE SAME COLOR FROM CONTROLLER VALVE. ONE SPARE WIRE SHALL BE RUN ALONG ENTIRE LENGTH OF THE MAINLINE THEN TERMINATE AT THE CONTROLLER. ALL SPLICES SHALL BE IN A VALVE OR SPLICE BOX. PROVIDE 48 INCH EXPANSION COILS AT ALL VALVES. ALL SPLICES SHALL BE MADE WITH 3M-DB4.
9. ALL PRIMARY (MAIN) IRRIGATION LINES SHALL BE SCHEDULE 40 PVC, INSTALLED IN SLEEVES 24 INCHES BELOW PAVEMENT AND 18 INCHES BELOW GROUND SURFACE OUTSIDE OF ROADWAY CROSSINGS.
10. ALL PIPING UNDER CONSTANT PRESSURE SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF NOT LESS THAN 100 P.S.I. FOR ONE HOUR WITH NO MORE THAN 5 PSI LOSS.
11. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND ELECTRICAL CONNECTION TO THE IRRIGATION CONTROLLERS.
12. THE RAIN SENSOR SHALL BE LOCATED IN AN AREA WHERE NO OVERHEAD OBSTRUCTIONS THAT WILL ALTER RAIN FALL OR PRODUCE DEBRIS THAT MAY INVALIDATE RAINFALL READINGS.
13. THIS PLAN IS DIAGRAMMATIC. ALL PIPING OR VALVES SHOWN OUTSIDE LANDSCAPE AREAS ARE SHOWN THERE FOR CLARITY. ALL LINES AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.
14. REFER TO LANDSCAPE DRAWINGS WHEN TRENCHING TO AVOID EXISTING AND PROPOSED TREES AND SHRUBS. HAND DIGGING SHALL BE USED BENEATH CANOPIES OF TREES TO AVOID DAMAGING ROOTS. THE IRRIGATION CONTRACTOR SHALL VERIFY THAT THE QUANTITIES INDICATED WILL PROVIDE THE COVERAGE AS SPECIFIED AND REPORT ANY DISCREPANCIES AT TIME OF BIDDING TO THE LANDSCAPE ARCHITECT.

PIPE SIZE TABLE	
IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	MINIMUM PIPE SIZE
0 – 6	3/4"
7 – 11	1"
12 – 19	1 1/4"
20 – 26	1 1/2"
27 – 42	2"
43 – 60	2 1/2"
61 – 90	3"

REFER TO EACH IRRIGATION ZONE ON PLAN DRAWINGS FOR ZONE GPM

-IRRIGATION SCHEDULE-

SYMBOL	MANF.	NUMBER	GPM	PSI	RAD.
MP800SR-8' RADIUS					
A	PROS	04/12-8F	0.56	30-40	8'
B	PROS	04/12-8TQ	0.37	30-40	8'
C	PROS	04/12-8H	0.32	30-40	8'
D	PROS	04/12-8T	0.28	30-40	8'
E	PROS	04/12-8Q	0.23	30-40	8'
MP800SR-10' RADIUS					
F	PROS	04/12-10F	0.78	30-40	10'
G	PROS	04/12-10TQ	0.43	30-40	10'
H	PROS	04/12-10H	0.42	30-40	10'
I	PROS	04/12-10T	0.35	30-40	10'
J	PROS	04/12-10Q	0.28	30-40	10'
MP1000-12' RADIUS					
K	PROS	04/12-12F	0.69	30-40	12'
L	PROS	04/12-12TQ	0.34	30-40	12'
M	PROS	04/12-12H	0.23	30-40	12'
N	PROS	04/12-12T	0.20	30-40	12'
O	PROS	04/12-12Q	0.17	30-40	12'
MP815-15' RADIUS					
P	PROS	04/12-15F	0.84	30-40	15'
Q	PROS	04/12-15TQ	0.63	30-40	15'
R	PROS	04/12-15H	0.42	30-40	15'
S	PROS	04/12-15T	0.28	30-40	15'
T	PROS	04/12-15Q	0.21	30-40	15'
MP2000-17' RADIUS					
U	PROS	04/12-17F	1.27	30-40	17'
V	PROS	04/12-17TQ	0.95	30-40	17'
W	PROS	04/12-17H	0.63	30-40	17'
X	PROS	04/12-17Q	0.31	30-40	17'
ROTORS, SPRAY, BUBBLERS					
AA	SRM	DK. GREEN 1.5	1.30	30-40	21'
BB	PGP	BLUE 6.0	5.60	30-40	40'
	PROS	12-ES515	0.65	30-40	5'X15'
	PROS	12-CS530	1.30	30-40	5'X30'
	ADJ TREE BUBBLER	- 2 PER TREE TOTAL 2.0 GPM			

- IRRIGATION LEGEND -

SYMBOL	DESCRIPTION
	2" IRRIGATION MAINLINE: SCHEDULE 40 PVC SOLVENT W/ DETECTOR TAPE SCHEDULE 40 PVC SOLVENT WELD FITTINGS &
	LATERAL SCHEDULE 40
	SCHEDULE 40 PVC SLEEVING
	ELECTRIC VALVE: HUNTER PGV- W/ 2-WIRE DECODER & LSP1 LINE SURGE PROTECTION EVERY 500 LINEAR FEET INSTALLED IN RECTANGULAR VALVE BOX WITH LID
C	HUNTER 12CF-800-PL CONTROLLER WITH PLASTIC WALL CABINET
S	RAIN SENSOR
ZONE / #4 1.0 I10.0 / VALVE SIZE / GPM	PROPOSED IRRIGATION ZONE

NOTE: IRRIGATION SYMBOLS ARE GRAPHIC REPRESENTATIONS ONLY.

NOTE:
1. 12" POP-UP TO BE INSTALLED IN ALL SHRUB AREAS. 4" POP-UP TO BE INSTALLED FOR ALL SOD AREAS.
2. UTILIZE PRESSURE REGULATING POP-UP WHERE REQUIRED.
3. CONTRACTOR VERIFY EXISTING WATER SOURCE LOCATION AND AVAILABLE PRESSURE WITH ALL ADJOINING SYSTEMS IN ACTIVE USE PRIOR TO CONNECTING.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

Tullo Planning Group
LAND USE PLANNING
LANDSCAPE ARCHITECTURE
PO Box 27601, Panama City Beach, Florida 32411
gtullo@tulloplanning.com (850) 527-0653
www.tulloplanning.com

GULF COAST STATE COLLEGE

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5230 US-98
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Dated 08.29.2025

IRRIGATION PLAN

IR-100

IRRIGATION SPECIFICATIONS

GENERAL/PRODUCTS

1. SYSTEM SHALL CONFORM TO ALL LOCAL CROSS-CONNECTIONS, PLUMBING AND ELECTRICAL CODES.
2. ALL MATERIALS TO BE INCORPORATED IN THIS SYSTEM SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS. ALL PIPE DAMAGED OR REJECTED BECAUSE OF DEFECTS SHALL BE REMOVED, WITH EXCEPTION TO RELOCATED MATERIAL, FROM THE SITE AT THE TIME OF REJECTION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE AND GUARANTEE COMPLETE 100% COVERAGE OF THE AREAS SHOWN ON THE DRAWINGS TO BE IRRIGATED. HE SHALL ALSO GUARANTEE THE SATISFACTORY OPERATION OF THE ENTIRE SYSTEM AND THE RESTORATION OF THE SITE PRIOR TO WORK.
4. CONTRACTOR SHALL COORDINATE WITH COLLEGE MAINTENANCE TO REVIEW EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF THE PROJECT.
5. THE CONTRACTOR SHALL VERIFY WATER SOURCE AND AVAILABLE PRESSURE WITH ALL EXISTING SYSTEMS ACTIVE PRIOR TO INSTALLATION. THE CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING AVAILABLE PRESSURE AND ADEQUACY OF PROPOSED WATER SOURCE.
6. THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND FULLY OPERATIONAL FOR THE PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTS OCCURRING WITHIN THAT YEAR, FREE OF EXPENSE TO THE OWNER.
7. AFTER FINAL ACCEPTANCE OF THE COMPLETED INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING COMPLETE REPRODUCIBLE DRAWINGS PREPARED AND SHOWING ALL CHANGES. THESE DRAWINGS SHALL SHALL BE TURNED OVER TO THE OWNER.

AS BUILTS

1. STATIC PRESSURE OF THE WATER SOURCE SHALL BE MEASURED AND NOTED ON THE SHOP DRAWINGS.
2. THE PRESSURE LOSS THROUGH THE SYSTEM SHALL BE INCLUDED AS PART OF THE SHOP DRAWINGS.
3. THE MAXIMUM AND MINIMUM PRESSURE AT THE BASE OF THE CLOSEST AND FURTHEST SPRINKLER SHALL BE INDICATED ON THE SHOP DRAWING.
4. ADEQUATE PRESSURE RELIEF, SURGE PROTECTION, THRUST RESTRAINT, AND AIR RELIEF VALVES SHALL BE USED FOR ALL PIPING.

HYDROSTATIC TESTS

1. TESTING OF THE INSTALLED SYSTEM SHALL BE REQUESTED OF THE CONTRACTOR BY THE OWNER IN WRITING AT LEAST 48 HOURS IN ADVANCE OF THE TEST.
2. TESTING SHALL BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.
3. WHEN TESTING WITH OPEN TRENCHES, CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE.
4. MAIN LINES AND SUBMAINS SHALL BE TESTED FOR TWO HOURS AND LATERAL LINES FOR ONE HOUR.
5. IF LINES OR FITTINGS DO NOT HOLD OR MORE THAN 5 PSI IS LOST DURING TESTING, THE CONTRACTOR MUST MAKE CORRECTIONS AND RESCHEDULE TESTING.

EXECUTION

1. ALL PRESSURIZED PLASTIC AND GALVANIZED PIPE, SPRINKLER LINES OR MAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES BASED ON FINISHED GRADES. NON-PRESSURIZED LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 12" BASED ON FINISHED GRADE.
2. DEPTH OF SLEEVES UNDER ASPHALT OR CONCRETE SHALL BE 24", EXCEPT 30" FOR 6" AND LARGER PIPES, WHERE ANY CUTTING OR BREAKING OF SIDEWALKS, CONCRETE WORK AND/OR ASPHALT IS NECESSARY, IT SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR. PERMISSION TO CUT OR BREAK SIDEWALKS, CONCRETE AND/OR ASPHALT SHALL BE OBTAINED FROM THOSE HAVING PROPER JURISDICTION.
3. THE BACKFILL SHALL BE THOROUGHLY COMPACTED AND EVENED OFF WITH THE ADJACENT SOIL LEVEL. BACKFILL SHALL CONTAIN NO LUMPS OR ROCKS LARGER THAN 2 1/2".
4. TRENCHES SHALL BE OPENED AND BACKFILLED ON THE SAME DAY.
5. PLASTIC PIPE SHALL BE CUT WITH A HACK SAW WITH THE ASSISTANCE OF A SQUARE SAWING DEVICE, OR IN A MANNER TO ENSURE A SQUARE CUT. BURRS AT CUT ENDS SHALL BE REMOVED PRIOR TO INSTALLATION TO PROVIDE A SMOOTH UNOBSTRUCTED FLOW.
6. ALL PLASTIC TO PLASTIC JOINTS SHALL BE SOLVENT WELD JOINTS OR SLIP SEAL JOINTS. ONLY THE SOLVENT RECOMMENDED BY THE PIPE MANUFACTURER (ASTMD-2564) SHALL BE USED. ALL FLEX PIPE SWING JOINTS SHALL BE CEMENTED WITH IPS #795, OR EQUAL. ALL PLASTIC PIPE AND FITTINGS SHALL BE CLEANED WITH APPROPRIATE PVC CLEANER (ASTM F-656), AND INSTALLED AS OUTLINED AND INSTRUCTED BY THE PIPE MANUFACTURER. NO GLUE SHALL BE LEFT INSIDE THE PIPE.
7. THE SOLVENT WELD JOINTS SHALL BE MADE IN THE FOLLOWING MANNER:
   A. THOROUGHLY CLEAN THE MATING PIPE AND FITTING WITH A CLEAN DRY CLOTH.
   B. APPLY A UNIFORM COAT OF SOLVENT TO THE PIPE WITH AN APPROVED APPLICATOR.
   C. APPLY SOLVENT TO FITTING IN A SIMILAR MANNER.
   D. REAPPLY A LIGHT COAT OF SOLVENT TO THE PIPE AND IMMEDIATELY INSERT INTO THE FITTING.
   E. TURN THE PIPE OR FITTING ONE QUARTER TO INSURE EVEN DISTRIBUTION IN THE SOCKET. INSERT PIPE TO THE FULL DEPTH OF THE FITTING SOCKET.
   F. WIPE OFF ANY EXCESS SOLVENT THAT APPEARS AT THE OUTER SHOULDER OF THE FITTING. DO NOT USE AN EXCESSIVE AMOUNT OF SOLVENT SO AS TO AVOID ANY OBSTRUCTION TO FORM ON THE PIPE. ALLOW JOINTS TO SET A MINIMUM OF 24 HOURS BEFORE PRESSURE IS APPLIED TO THE SYSTEM.
8. ALL OPENINGS SHALL BE CAPPED OR PLUGGED FOLLOWING THE INSTALLATION OF LINES TO PREVENT THE ENTRANCE OF MATERIALS THAT WOULD OBSTRUCT THE PIPE OR SPRINKLERS. LEAVE PLUG OR CAP IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION OF INSTALLATION.
9. THOROUGHLY FLUSH OUT ALL WATER LINES BEFORE INSTALLING HEADS, VALVES, AND OTHER HYDRANTS.
10. UPON COMPLETION OF THE FLUSHING, THE CONTRACTOR SHALL RECAP THE LINES FOR PRESSURE TESTING.

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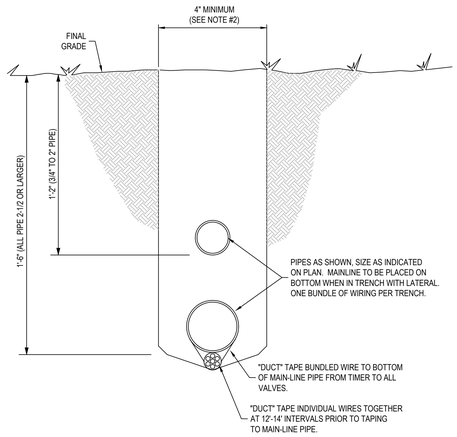
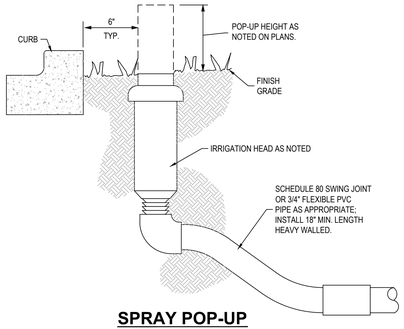
NOTES:
1. PREVENT UNCOVERED PIPE FROM FLOATING UP DURING RAINS. PIPE WHICH FLOATS-UP DUE TO WATER ACCUMULATION IN TRENCH SHALL BE RESET TO SPECIFIED DEPTHS AT NO EXTRA COSTS.

2. TRENCH WIDTH TO BE SIZED ACCORDING TO NEEDS. DO NOT DIG EXCESSIVELY WIDE TRENCH SO AS TO MINIMIZE DAMAGE TO SURROUNDING SOILS AND VEGETATION.



TRENCHING DETAIL
NOT TO SCALE



SPRAY POP-UP
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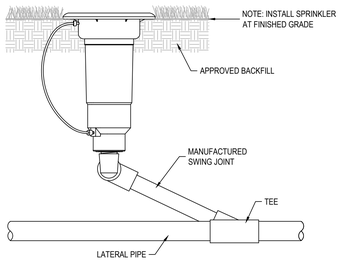
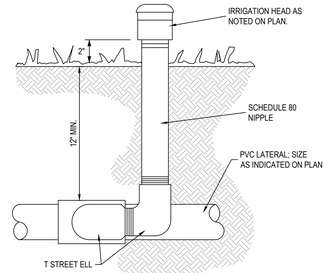
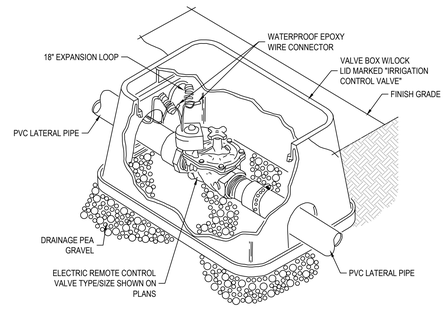


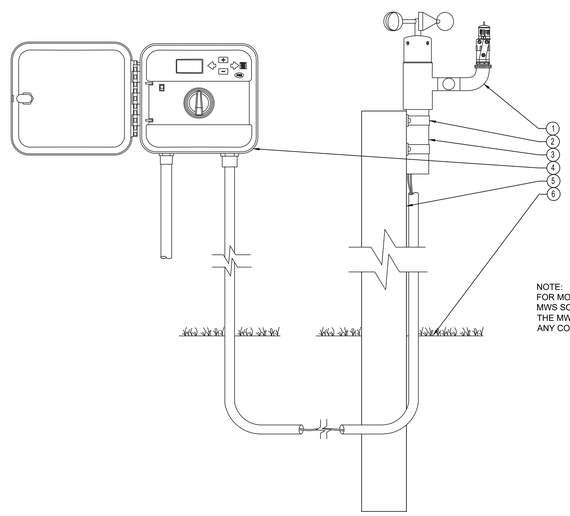
LARGE TURF GEARED ROTOR
NOT TO SCALE



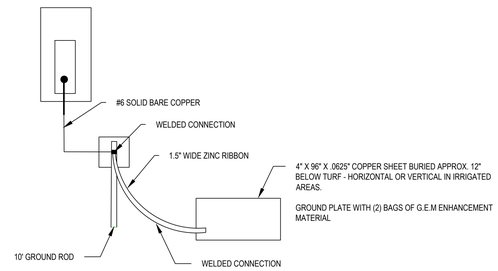
PRESSURE COMPENSATING BUBBLER
NOT TO SCALE



ELECTRIC VALVE
NOT TO SCALE

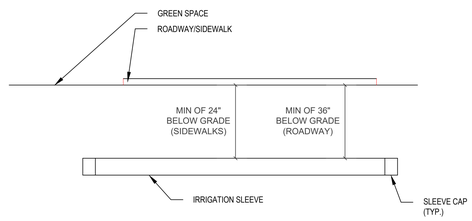


IRRIGATION CONTROLLER AND MINI WEATHER STATION
NOT TO SCALE



¾" X 10' COPPER CLAD GROUNDING ROD. A MINIMUM OF 11' APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF 10 OHMS OR LESS.

DECODER SURGE GROUNDING
NOT TO SCALE



SLEEVE DETAIL
NOT TO SCALE

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

Tullo Planning Group
LAND USE PLANNING
LANDSCAPE ARCHITECTURE
PO Box 27601, Panama City Beach, Florida 32411
gtullo@tulloplanning.com (850) 527-0653
www.tulloplanning.com

Gulf Coast State College

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

IRRIGATION DETAILS

IR-101

GENERAL
1. THE OWNER/CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL FINAL DIMENSIONS, PRIOR TO START.
2. THE CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL WORKS DOCUMENTS WITH THE STRUCTURAL CONTRACT DOCUMENTS. NOTIFICATION SHALL BE MADE TO THE ENGINEER OF RECORD OF ANY CONFLICT AND/OR OMISSIONS.
3. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE THE ARCHITECTURAL PLANS.
4. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING WORK. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IN EXISTING SITE CONDITIONS, DIMENSIONS, OR ELEVATIONS TO THOSE SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.
5. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO DEMOLITION PROCEDURES AND TEMPORARY SHORING.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND ERECTION OF SAFE AND ADEQUATE BRACING, SHORING, TEMPORARY SUPPORTS, ETC. REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION AND/OR DEMOLITION.
7. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE ENGINEER OF RECORD IN WRITING.
8. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
9. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
10. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
11. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
12. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
13. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATIONS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
14. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
15. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
16. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.
17. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SEALED BY ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SEALED BY ENGINEER LICENSED IN PROJECT STATE.
18. WHERE A SECTION OR DETAIL IS SHOWN OR DETAILED FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR. THE CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.
19. ALL FLASHING AND WATERPROOFING BY CONTRACTOR/ARCH PLANS.
20. ALL ADA REQUIREMENTS SHALL BE ADHERED (IF APPLICABLE) TO AND MAY NOT BE SHOWN ON THESE PLANS IN ITS ENTIRETY.
21. PLANS DO NOT INCLUDE ANY FIRE ESCAPE PLAN, FIRE SPRINKLER, OR FIRE RELATED DESIGN ASPECTS, U.N.O.. OWNER/CONTRACTOR SHALL PROVIDE APPLICABLE FIRE PROTECTION DESIGN/DOCUMENTS NOT SHOWN ON THIS PLAN SET.
22. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THRESHOLD INSPECTION REQUIREMENTS (IF APPLICABLE).

CODE DESIGN
1. WIND LOADS: SEE TABLE

ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/240 OR < 1"	L/180
FLOOR MEMBERS:	L/360 OR < 1/2"	L/240

WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.)

FOUNDATION
1. FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE BEARING PRESSURE OF 2000 PSF. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. ALL FOUNDATION BEARING SOIL SHALL BE COMPACTED TO 98% STANDARD PROCTOR OR 95% MODIFIED PROCTOR AS SPECIFIED BY AASHTO T-99 AND AASHTO T-180, RESPECTIVELY.
3. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED w/ 3/4" X 3/4" (MIN.) KEY WAY. ALL SURFACES SHALL BE CLEANED BEFORE PLACEMENT OF ADJACENT CONCRETE. CONTRACTION JOINTS / SAW CUTS SHALL BE INSTALLED AT 10' O.C. EACH WAY OR NO GREATER THAN 30 TIMES THE SLAB THICKNESS (LESSER OF THE TWO) AND SHALL BE A MINIMUM OF 1/8" WIDE AND TO A DEPTH OF 25% OF THE SLAB THICKNESS (MIN.) UNLESS OTHERWISE NOTED. ALL CONCRETE SLABS LOCATED WITHIN VE FLOOD ZONES SHALL BE SCORED IN 25 SQ. FT. SECTIONS (MAXIMUM). REFER TO F.D.E.P. PERMIT DRAWINGS FOR ALL CONCRETE SLABS LOCATED SEAWARD OF THE COASTAL CONSTRUCTION CONTROL LINE.
4. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM BEFORE STARTING CONSTRUCTION.
5. NO FOOTINGS SHALL BE PLACED IN WATER.
6. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THESE NOTES OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER OF RECORD BEFORE PROCEEDING.
7. BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.

CONCRETE MASONRY
1. CONCRETE MASONRY WORK SHALL CONFORM TO ACI 530, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1, SPECIFICATION FOR MASONRY STRUCTURES.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE F'M = 1,500 PSI.
3. MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY AND SHALL BE OF THE FOLLOWING TYPE:
   WALLS BELOW GRADE — TYPE M OR S
4. CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2,500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT SHALL CONFORM TO ASTM C476.
5. PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE LONGITUDINAL WIRES AT 16" VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
6. MINIMUM VERTICAL WALL REINFORCEMENT SHALL BE #5 @32" UNLESS NOTED OTHERWISE.
7. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENTS OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.
8. REINFORCING DOWELS MUST BE TIED IN PLACE PRIOR TO POURING FOOTING. "WET-STICKING" IS NOT ALLOWED.

GENERAL CONCRETE
1. ALL CONCRETE, UNLESS NOTED OTHERWISE ON SPECIFIC VIEW/DETAIL, SHALL BE 4000 psi MIN. 28-DAY COMPRESSION TEST.
2. SEE MEP & ARCHITECTURAL FOR ALL FLOOR & SLAB OPENINGS, DRAINS, & SLOPING.
3. CONDUITS PLACED IN STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   A. CONDUITS SHALL BE PLACED ONLY IN THE MIDDLE THIRD OF THE DEPTH OF THE STRUCTURAL MEMBER
   B. CONDUITS SHALL NOT HAVE AN OUTISDE DIAMETER GREATER THAN 1/3 OF THE SLAB, WALL, OR COLUMN THICKNESS.
   C. CONDUITS SHALL NOT BE PLACED IN THE WALLS (INCLUDING ICF) AND SLAB UNLESS SPECIFICALLY NOTED ON THE ELECTRICAL DRAWINGS.
   D. INTERSECTING CONDUITS SHALL NOT HAVE A COMBINED DEPTH GREATER THAN 1/3 OF THE OVERALL DEPTH OF THE SLAB OR WALL.
   E. CONDUITS SHALL NOT BE PLACE IN ANY STRUCTURAL COLUMN.
   F. FOR STEEL DECK CONCRETE FLOORS, THE DEPTH OF SLAB SHALL BE CONSIDERED THE TOTAL SLAB THICKNESS.
4. CONSTRUCTION JOINTS IN WALLS, BEAMS, AND SLABS SHALL BE PLACED MIDWAY BETWEEN SUPPORTS & SHALL HAVE THE SURFACE OF THE INITIAL POUR ROUGHED TO 1/4".
5. CONTRACTOR SHALL SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH AC I318 WITH THE APPROPRIATE GRAPHS & GENERAL DATA. MIX DESIGN SHALL ALSO INDICATE 7 & 28 DAY COMPRESSIVE STRENGTHS.

INSULATED CONCRETE FORMS (ICF)
1. FOR WALLS WITH BOTH VERTICAL AND HORIZONTAL REINFORCEMENT, PLACE THE VERTICAL BARS @ THE CENTER OF ICF CORE WITH THE HORIZONTAL REINFORCING STAGGERED @ EITHER SIDE.
2. HORIZONTAL AND VERTICAL CONSTRUCTION JOIST SHALL HAVE THEIR SURFACES ROUGHENED TO 1/4" U.N.O.
3. DESIGN, DETAILING, FABRICATION, AND TESTING OF WALLS USING ICF SHALL CONFORM TO AC I318.
4. ALL CONCRETE USED IN THE CORE OF ICF WALLS SHALL HAVE:
   A. A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 psi.
   B. A MAXIMUM SLUMP OF 6" +/- 1".
   C. A MAXIMUM WATER CEMENT RATIO OF 0.50

BRICK LINTELS
1. CONTRACTOR SHALL INSTALL BRICK VENEER LINTELS LOCATED AT **LEVEL 1 (+0' - 0" TO +16' - 0")** PER THE FOLLOWING:
   A. FOR OPENINGS OF 4' - 0" AND LESS, INSTALL 5" X 3-1/2" X 3/8" LOOSE LINTEL
   B. FOR OPENINGS GREATER THAN 4' - 0" AND LESS THAN 8' - 6", INSTALL 6" X 3-1/2" X 3/8" LOOSE LINTEL
2. CONTRACTOR SHALL INSTALL BRICK VENEER LINTELS LOCATED AT **LEVEL 2 (+16' - 0" TO +30' - 0")** PER THE FOLLOWING:
   A. FOR OPENINGS OF 8' - 6" AND LESS, INSTALL 5" X 3-1/2" X 3/8" LOOSE LINTEL
   B. FOR OPENINGS GREATER THAN 4' - 0" AND LESS THAN 8' - 6", INSTALL 6" X 3-1/2" X 3/8" LOOSE LINTEL
3.

REINFORCEMENT
1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE MINIMUM SIDE AND END LAPS OF 8".FOR ALL MONOLITHIC FOOTINGS, A DOUBLE LAYER OF WELDED WIRE FABRIC SHALL BE INSTALLED WITHIN 3'-0" OF ALL FOOTINGS (3" CLEAR OF OUTSIDE PERIMETER OF FOOTING)
3. REINFORCING STEEL SHALL ONLY BE WELDED OR TACK-WELDED IF IT CONFORMS TO ASTM A706, AND AWS D1.4. REINFORCING SHALL NOT BE WELDED NOR TACK-WELDED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE. REINFORCING DOWELS MUST BE TIED IN PLACE PRIOR TO POURING FOOTING. "WET-STICKING" IS NOT ALLOWED.
6. WALL FOOTING REINFORCEMENT SHALL EXTEND 2' - 0" MIN. INTO ADJACENT COLUMN FOOTINGS, U.N.O.
7. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
   A. CAST-IN-PLACE (NON POST-TENSIONED) CONCRETE REINFORCEMENT COVER

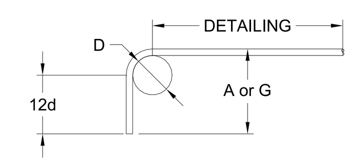
PERMANENTLY EXPOSED TO EARTH:	
CAST AGAINST THE EARTH	3" CLEAR
EXPOSED TO EARTH OR WEATHER:	
FOR BARS LARGER THAN A NO. 5 BAR	2" CLEAR
NO. 5 BARS OR SMALLER	1 1/2" CLEAR
NOT EXPOSED TO EARTH OR WEATHER	
SLABS & WALLS	3/4" CLEAR
BEAMS AND COLUMNS	1 1/2" CLEAR TO TIES

   B. MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF CMU CELLS, UNLESS NOTED OTHERWISE.

8. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

MINIMUM LAP SPLICE LENGTH (IN.) - 4000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
	22	29	36	43	63	72
MINIMUM LAP SPLICE LENGTH (IN.) - 1500 PSI NORMAL WEIGHT CMU						
6-in CMU WALL	19	25	39	81	NA	NA
8-in CMU WALL	19	25	31	57	79	113
12-in CMU WALL	19	25	31	53	61	75

RECOMMENDED END HOOKS ANCHORAGE LENGTH (IN.) - 3000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
D	2.25	3.00	3.75	4.50	5.25	6.00
A or G	6	8	10	12	14	16



POST INSTALLED ANCHORS
1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQ'D BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT. CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
   A. CONCRETE ANCHORS
      a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
         - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
         - SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
      b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
         - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
         - SIMPSON STRONG-TIE "AT-XP" (IAPMO-ES ER-0263)
         - HILTI HIT HY150 INJECTION ADHESIVE
         - EPCON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
         - POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING
      c. POWDER AND GAS-ACTUATED FASTENERS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED POWDER ACTUATED FASTENERS INCLUDE:
         - SIMPSON STRONG-TIE "POWER-DRIVEN FASTENERS" (ICC-ES ESR-2138)
         - SIMPSON STRONG-TIE "GAS-ACTUATED FASTENERS" (ICC-ES ESR-2811)
2. MASONRY ANCHORS
   A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY:
      a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
         - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
         - SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAMPO-ES ER-0240)
         - SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
      b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
         - SIMPSON STRONG-TIE "AT-XP" (IAMPO-ES ER-0281)
         - SIMPSON STRONG-TIE "SET-XP" (IAMPO-ES ER-0265)
         - HILTI HIT HY150 INJECTION ADHESIVE
         - EPCON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
         - POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING
3. ANCHORAGE TO HOLLOW CONCRETE MASONRY:
   A. ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
      - SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)
      - SIMPSON STRONG-TIE "AT" (ICC-ES ESR-1958)
      - HILTI HIT HY150 INJECTION ADHESIVE
      - EPCON CERAMIC 6 EPOXY ADHESIVE SUPPLIED BY ITW RAMSET/RED HEAD
      - POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENING
4. ALL DRILLED & EPOXIED 5/8" THREADED RODS SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 1 3/4" AND CLEAR SPACING OF 4" O.C. (MAX.)

CAST-IN-PLACE CONCRETE
1. ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318 AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 301.
2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
4. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
5. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING O.O1 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL
1. ALL STRUCTURAL STEEL WIDE FLANGE MEMBERS CONFORM TO ASTM A992 GRADE 50.
2. ALL STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B.
3. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
4. ALL STRUCTURAL BOLTS SHALL BE ASTM F3125 GRADE A325. ALL BOLTED CONNECTIONS NEED ONLY TO BE 'SNUG TIGHT' UNLESS NOTED OTHERWISE ON THE PLAN SET.
5. ALL WASHERS SHALL BE ASTM F436 HARDENED WASHERS.
6. ALL WELDING SHALL BE PERFORMED BY PERSONNEL CURRENTLY CERTIFIED BY THE AMERICAN WELDING SOCIETY (AWS) AS HAVING PASS ALL AWE QUALIFICATION TESTS FOR WELDING PROCESSES THEY ARE TO PERFORM. ALL WELDS SHALL BE PERFORMED USING E70XX ELECTRODES & SHALL CONFORM TO ALL AISC & AWS STANDARDS.
7. CONTRACTOR SHALL CONFIRM AVAILABILITY OF ALL MATERIAL SPECIFICATIONS WITHIN THIS PLAN SET. SCE SHALL BE NOTIFIED IN WRITING OF ANY MATERIALS NOT AVAILABLE FOR RECOMMENDATIONS / CONSULTATION SUBSTITUTION.
8. CONTRACTOR SHALL SUBMIT A WRITTEN RFI TO SCE FOR ANY MATERIAL SPECIFICATION SUBSTITUTION FOR APPROVAL PRIOR TO CONSTRUCTION / MFG.
9. ALL HOLES AND OPENINGS REQUIRED IN STRUCTURAL STEEL MEMBERS BY OTHER TRADES SHALL BE SHOWN ON THEIR RESPECTIVE DRAWINGS AND ON SHOP DRAWINGS SUBMITTED FOR REVIEW.
10. FIELD MODIFICATION OF THE STRUCTURAL STEEL & ITS CONNECTIONS IS NOT PERMITTED PRIOR TO REVIEW AND APPROVAL BY THE (STRUCTURAL) ENGINEER OF RECORD.
11. WELDING SEQUENCING AND MEANS (PER STEEL FABRICATOR, STEEL ERECTOR, AND/OR CONTRACTOR) SHALL BE SUCH THAT MINIMIZES AND AVOIDS UNDUE DISTORTION & WARPING.

STEEL DECK
1. FABRICATION AND INSTALLATION OF METAL DECK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE MANUAL.
2. FLOOR DECK SHALL CONFORM TO ASTM A653 SS GRADE 50.
3. METAL DECK SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES:
   A. FLOOR DECK I+ (I-) = 0.197 (0.217) in4//ft S+ (S-) = 0.224 (0.229) in3//ft
4. PROVIDE RIDGE/VALLEY PLATES, REINFORCING CHANNELS, CLOSURES, CANT STRIPS, FINISH STRIPS, POUR STOPS, AND ANY OTHER ACCESSORIES AS REQ'D.

COLD-FORMED METAL FRAMING
1. GALVANIZED STUDS AND TRACKS (12, 14, AND 16 GAUGE) SHALL BE MADE OF STEEL CONFORMING TO ASTM A653, GRADE 50.
2. GALVANIZED STUDS, TRACKS, BRIDGING, END CLOSURES, AND ALL OTHER ACCESSORIES (18 AND 20 GAUGE) SHALL BE MADE OF STEEL CONFORMING TO ASTM A653 GRADE 33.
3. ALL COLD-FORMED METAL FRAMING SHALL HAVE G-90 GALVANIZED COATING.
4. FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING AND SHOULD BE SQUARE WITH COMPONENTS ATTACHED IN A MANNER TO PREVENT RACKING. HANDLING AND LIFTING OF THE PANELS DURING ERECTION SHALL BE DONE IN A MATTER TO PREVENT DISTORTION OF ANY MEMBER.
5. AT TRACK BUTT JOINTS, ABUTTING PIECES SHALL BE BUTT WELDED OR SPLICED TOGETHER.
6. STUDS SHALL BE PLUMBED, ALIGNED, AND FASTENED TO THE FLANGES OR WEBS OF THEIR ASSOCIATED TRACKS. THE ENDS OF STUDS MUST ALSO BEAR AGAINST THE WEB OF BOTH THE UPPER AND LOWER TRACKS U.N.O.
7. ALL COLD-FORMED FRAMING SHALL BE TEMPORARILY BRACED AND SHORED UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETE.

CERTIFICATION
THE STRUCTURE ON THESE PLANS IS DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 8TH EDITION (2023)

ABBREVIATIONS

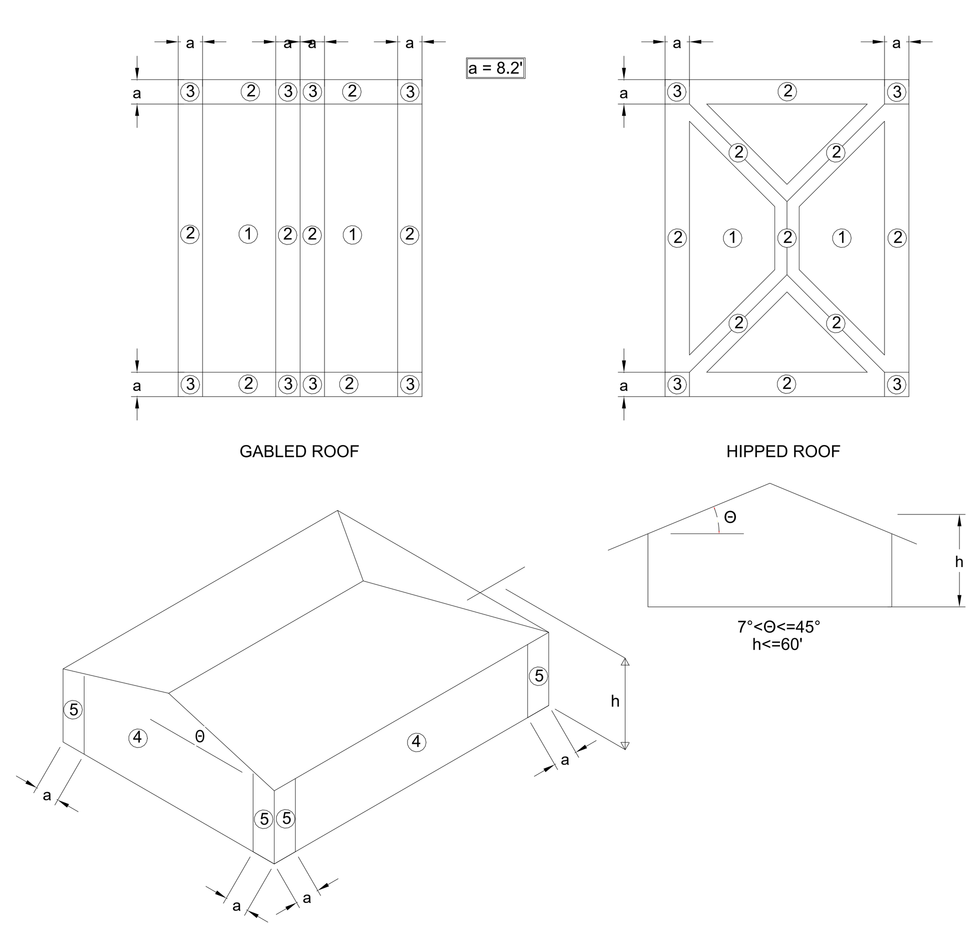
CONC. = CONCRETE	E.O.R. = ENGINEER OF RECORD
WWM = WELDED WIRE MESH	BTM. = BOTTOM
CONT. = CONTINUOUS	C.I.P. = CAST IN PLACE
CMU = CONCRETE MASONRY UNIT	S.S. = STAINLESS STEEL
N.T.S. = NOT TO SCALE	TYP. = TYPICAL
BTW. = BETWEEN	REQ'D = REQUIRED
SIM. = SIMILAR	U.N.O. = UNLESS NOTED OTHERWISE
LOC. = LOCATION	MFG. = MANUFACTURER
HC.A. = HEADED CONCRETE ANCHOR	

MAIN WIND FRAME RESISTING SYSTEM (MWFRS)		
AREA	INTERIOR ZONE	END ZONE
WALLS	39.86 PSF	49.83 PSF
ROOF	± 34.66 PSF	± 43.33 PSF

COMPONENTS AND CLADDING ROOF PRESSURES (PSF)		
ZONE	+ GCpi	- GCpi
ROOF (ZONE 1)	32.28	-72.62
ROOF (ZONE 2)	32.28	-94.63
ROOF (ZONE 3)	32.28	-101.97

COMPONENTS AND CLADDING WALL PRESSURES (PSF)								
	0 SF - 10 SF		10 SF - 30 SF		30 SF - 60 SF		60 SF - 100 SF	
ZONE	+ GCpi	- GCpi	+ GCpi	- GCpi	+ GCpi	- GCpi	+ GCpi	- GCpi
4	43.28	-46.95	43.28	-46.95	40.19	-43.86	38.24	-41.91
5	43.28	-57.95	43.28	-57.95	40.19	-51.77	38.24	-47.87

NOTE: ALL PRESSURES SHOWN ARE BASED UPON ASD DESIGN, WITH A LOAD FACTOR OF 0.6.



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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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SCE SOUTHEASTERN CONSULTING ENGINEERS, INC.
120 N Hwy 71
P.O. Box 141
Wewahitchka, FL 32465
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Gulf Coast State College

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	8/29/25

General Notes

S-001

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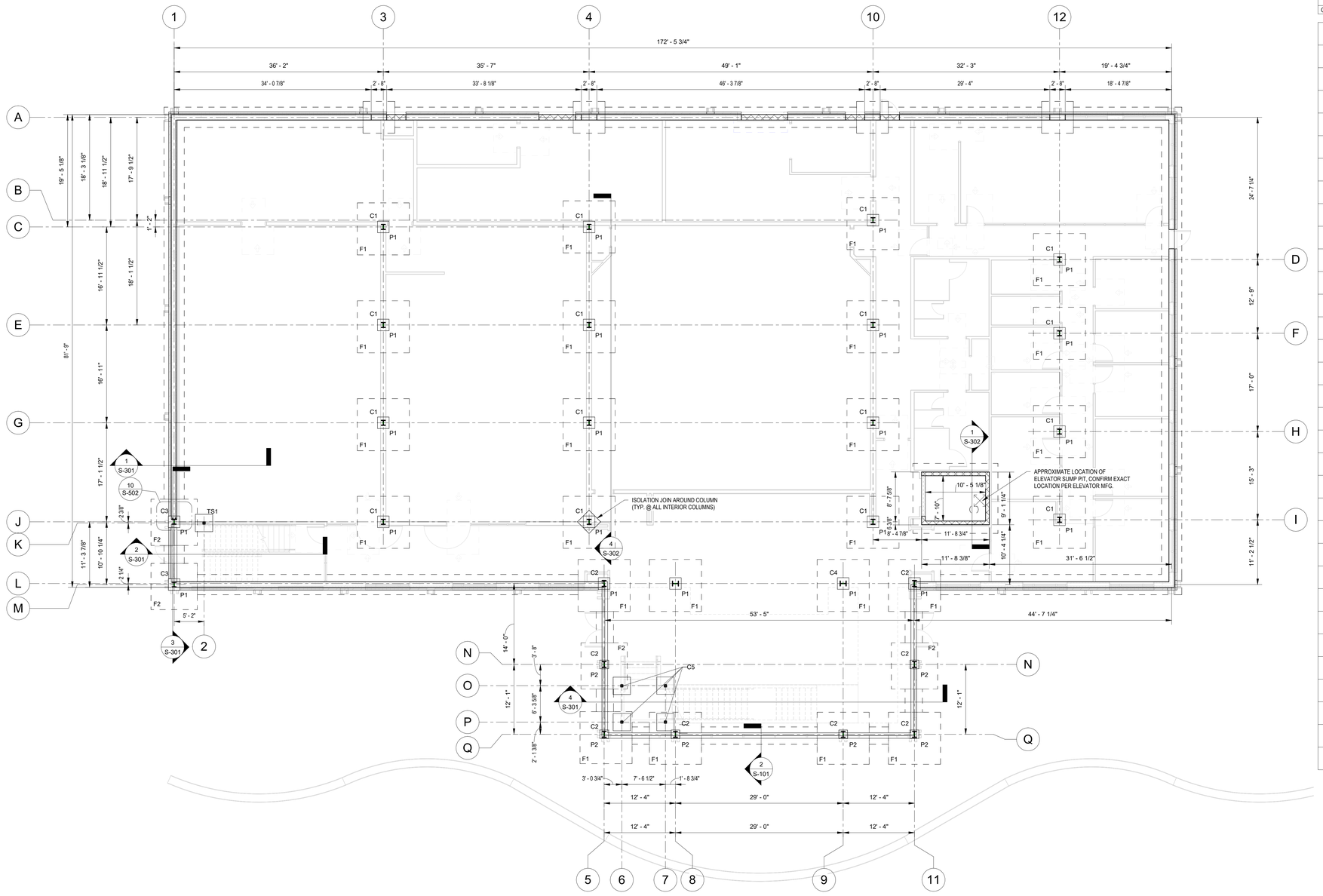
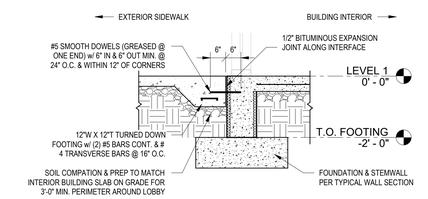


1 FOUNDATION PLAN
1/8" = 1'-0"



2 SECTION - LOBBY FOUNDATION & SIDEWALK CONNECTION
1/2" = 1'-0"

FOUNDATION PLAN NOTES:

1. SLAB ON GRADE SHALL BE 6"TH NORMAL WEIGHT CONCRETE (3000 psi MIN.) w/ 6"x6" W2.5 x W2.5 WWM w/ 15 MIL VAPOR BARRIER OVER CLEAN, COMPACTED FILL.
2. SEE ARCH PLANS FOR LOCATIONS OF ALL SLAB DEPRESSIONS, SLOPES, OPENINGS; IF APPLICABLE.
3. ELEVATOR PIT FINISHED DEPTH SHALL BE COORDINATED WITH ELEVATOR MANUFACTURER AND COMFIRMED WITH EOR PRIOR TO CONSTRUCTION.
4. AT LOCATIONS WHERE STEEL COLUMN IS WITHIN 6" OF OPENING, CONTRACTOR SHALL INSTALL STEEL STUD FRAMING (DELEGATED DESIGN) TO ACHIEVE DESIRED ROUGH OPENING DIMENSIONS.

Column Schedule - By Location

Column Location	Mark	Base Offset	Type	Base Level	Top Level	Top Offset	Length	Base Plate	Anchorage
B-10	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
C-3	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
C-4	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
D-12	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
E-3	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
E-4	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
E-10	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
F-12	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
G-3	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
G-4	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
G-10	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
H-12	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
I-12	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
J-1	C3	0' - 0"	W10X33	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
J-3	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
J-4	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
J-10	C1	0' - 0"	W10X45	T.O. PEDESTAL	LEVEL 2	-0' - 9 1/2"	15' - 8 1/2"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
K-2	C5	0' - 0"	HSS4X4X3/8	LEVEL 1	LEVEL 1	9' - 8 5/8"	9' - 8 5/8"	1/2" X 9" X 9"	(4) 1/2" X 5" SIMPSON TITEN HD
L-5	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
L-8	C4	0' - 0"	W12X58	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
L-9	C4	0' - 0"	W12X58	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
L-11	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
M-1	C3	0' - 0"	W10X33	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 18" X 18"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
N-5	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	-2' - 0"	28' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
N-11	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
O-6	C5	0' - 0"	HSS4X4X3/8	LEVEL 1	LEVEL 1	2' - 10 1/4"	2' - 10 1/4"	1/2" X 9" X 9"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
O-7	C5	0' - 0"	HSS4X4X3/8	LEVEL 1	LEVEL 1	2' - 10 1/4"	2' - 10 1/4"	1/2" X 9" X 9"	(4) 1/2" X 5" SIMPSON TITEN HD
P-6	C5	0' - 0"	HSS4X4X3/8	LEVEL 1	LEVEL 1	2' - 10 1/4"	2' - 10 1/4"	1/2" X 9" X 9"	(4) 1/2" X 5" SIMPSON TITEN HD
P-7	C5	0' - 0"	HSS4X4X3/8	LEVEL 1	LEVEL 1	2' - 10 1/4"	2' - 10 1/4"	1/2" X 9" X 9"	(4) 1/2" X 5" SIMPSON TITEN HD
Q-5	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
Q-8	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
Q-9	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)
Q-11	C2	0' - 0"	W12X50	T.O. PEDESTAL	ROOF	0' - 0"	30' - 6"	1-1/2" X 16" X 16"	(4) 1" X 16" ANCHOR BOLTS (3" HOOKS)

Footing Schedule

Mark	Type	Count	Elevation at Top	Reinforcement	Concrete Compressive Strength
F1	108" x 108" x 18"	24	-2' - 0"	(14) #5 BARS EA. WAY, TOP & BTM	4000 psi
F2	96" x 96" x 18"	4	-2' - 0"	(12) #5 BARS EA. WAY TOP & BTM	4000 psi
F3	66" x 66" x 18"	4	-2' - 0"	(9) #5 BARS EA. WAY TOP & BTM	4000 psi
P1	24" x 24" x 18"	22	-0' - 6"	(8) #6 VERTICAL BARS	4000 psi
P2	18" x 18" x 18"	6	-0' - 6"	(8) #6 VERTICAL BARS	4000 psi
TS1	36" x 36" x 12"	5	0' - 0"	(5) #5 BARS EA. WAY	4000 psi

Wall Footing Schedule

Mark	Type	Elevation at Top	Continuous Reinforcement	Transverse Reinforcement	Concrete Compressive Strength
WF1	Bearing Footing - 36" x 12"	-2' - 0"	(5) #5 Bars	#5 Bars @ 12" O.C.	4000 psi
WF2	Bearing Footing - 42" x 12"	-2' - 0"	(6) #5 Bars	#5 Bars @ 12" O.C.	4000 psi

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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SCE SOUTHEASTERN CONSULTING ENGINEERS, INC.
120 N Hwy 71
P.O. Box 141
Wewahitchka, FL 32465
SCE Project Number: 25-93-01

Gulf Coast State College

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25004
Dated	8/29/25

Foundation Plan

S-101

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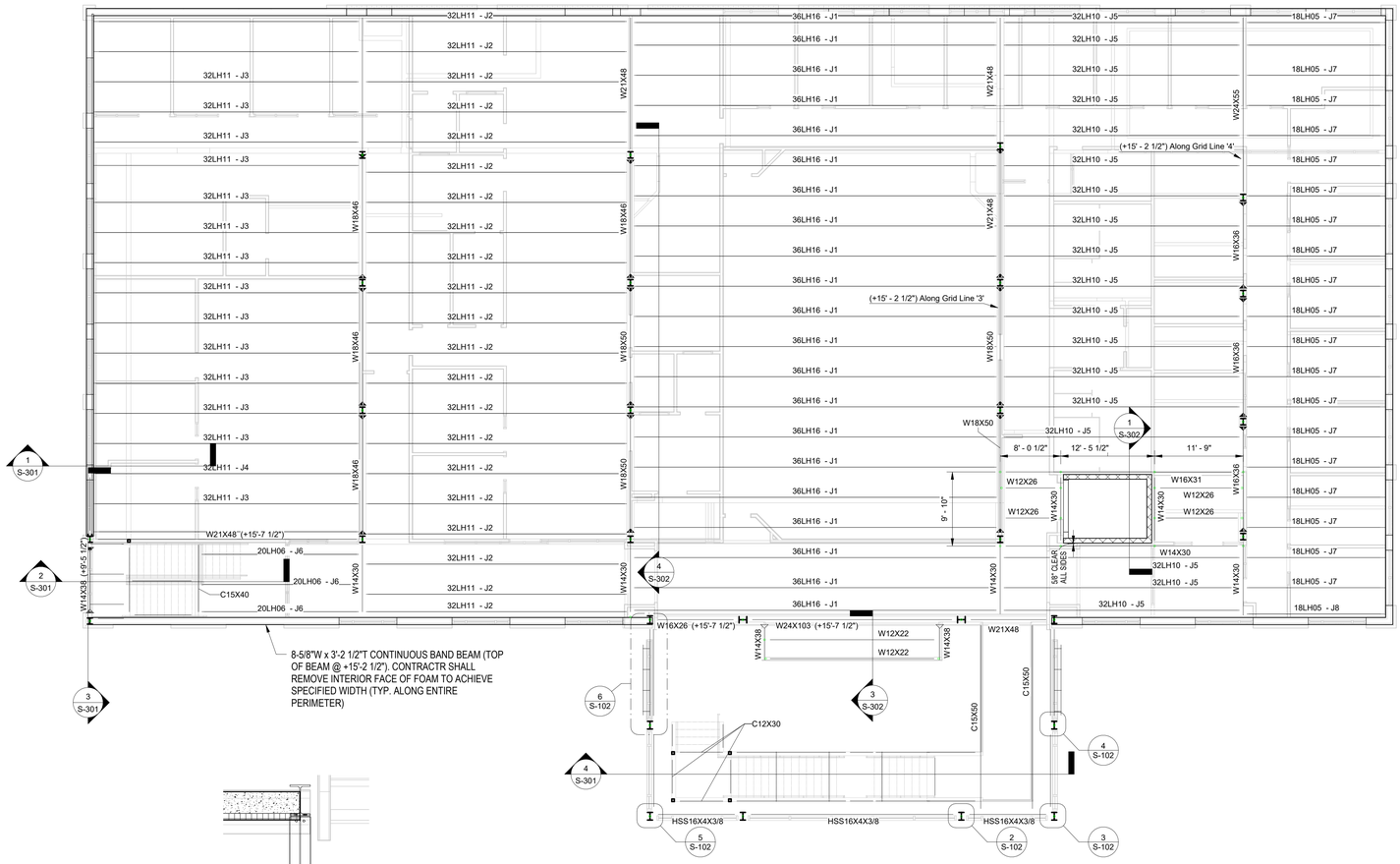
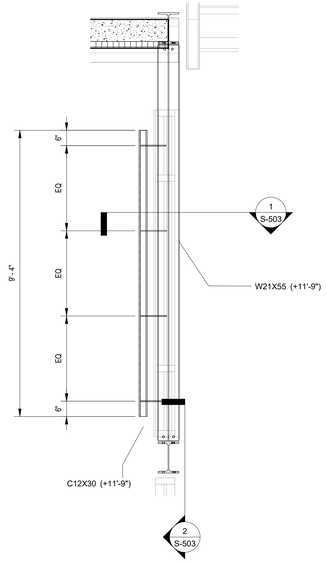
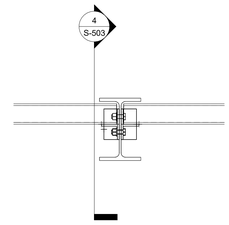


8-5/8"W x 3'-2 1/2"T CONTINUOUS BAND BEAM (TOP OF BEAM @ +15'-2 1/2"). CONTRACTR SHALL REMOVE INTERIOR FACE OF FOAM TO ACHIEVE SPECIFIED WIDTH (TYP. ALONG ENTIRE PERIMETER)

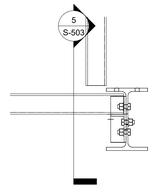
1 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"



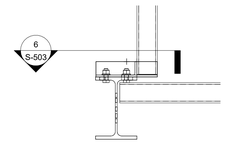
6 LOBBY CANOPY BUILT UP BEAM
1/2" = 1'-0"



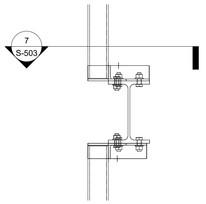
2 LOBBY CURTAIN WALL SUPPORT TO INTERIOR COLUMN 1
1" = 1'-0"



3 LOBBY CURTAIN WALL SUPPORT TO CORNER COLUMN 1
1" = 1'-0"



5 LOBBY CURTAIN WALL SUPPORT TO CORNER COLUMN 2
1" = 1'-0"



4 LOBBY CURTAIN WALL SUPPORT TO INTERIOR COLUMN 2
1" = 1'-0"

LEVEL 2 FRAMING PLAN NOTES:

1. FLOOR SLAB SHALL BE 3"TH NORMAL WEIGHT CONCRETE (4000 psi MIN.) w/ 6"x6" W2.5 x W2.5 WWM OVER 1.5VLI-20 GA COMPOSITE FLOOR DECK BY VULCRAFT OR OTHER EQUAL (3 SPAN MIN., 4.5" TOTAL THICKNESS).
2. TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) FOR ALL FRAMING MEMBERS SHALL (+15'-7.5") AND ARE TO BE MEASURED FROM LEVEL 1 TOP OF SLAB (+/-0'-0" RELATIVE ELEVATION).
3. ALL HORIZONTAL STRUCTURE MEMBERS HAVING TOP OF STEEL ELEVATION DIFFERING FROM THAT OF UNDERSIDE OF DECK (+15'-7.5") HAVE THEIR RESPECTIVE ELEVATIONS FOLLOWING THEIR RESPECTIVE BEAM TAGS (+X'-X").
4. ALL BAR JOISTS SHALL HAVE 5" SEAT DEPTH.
5. ALL STAIR LANDING ELEVATIONS SHALL BE CONFIRMED PER ARCH PLANS PRIIOR TO CONSTRUCTION.
6. REFER TO MECHANICAL PLANS FOR ALL FLOOR OPENINGS AND LOCATIONS.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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SCE SOUTHEASTERN CONSULTING ENGINEERS, INC.
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Gulf Coast State College

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

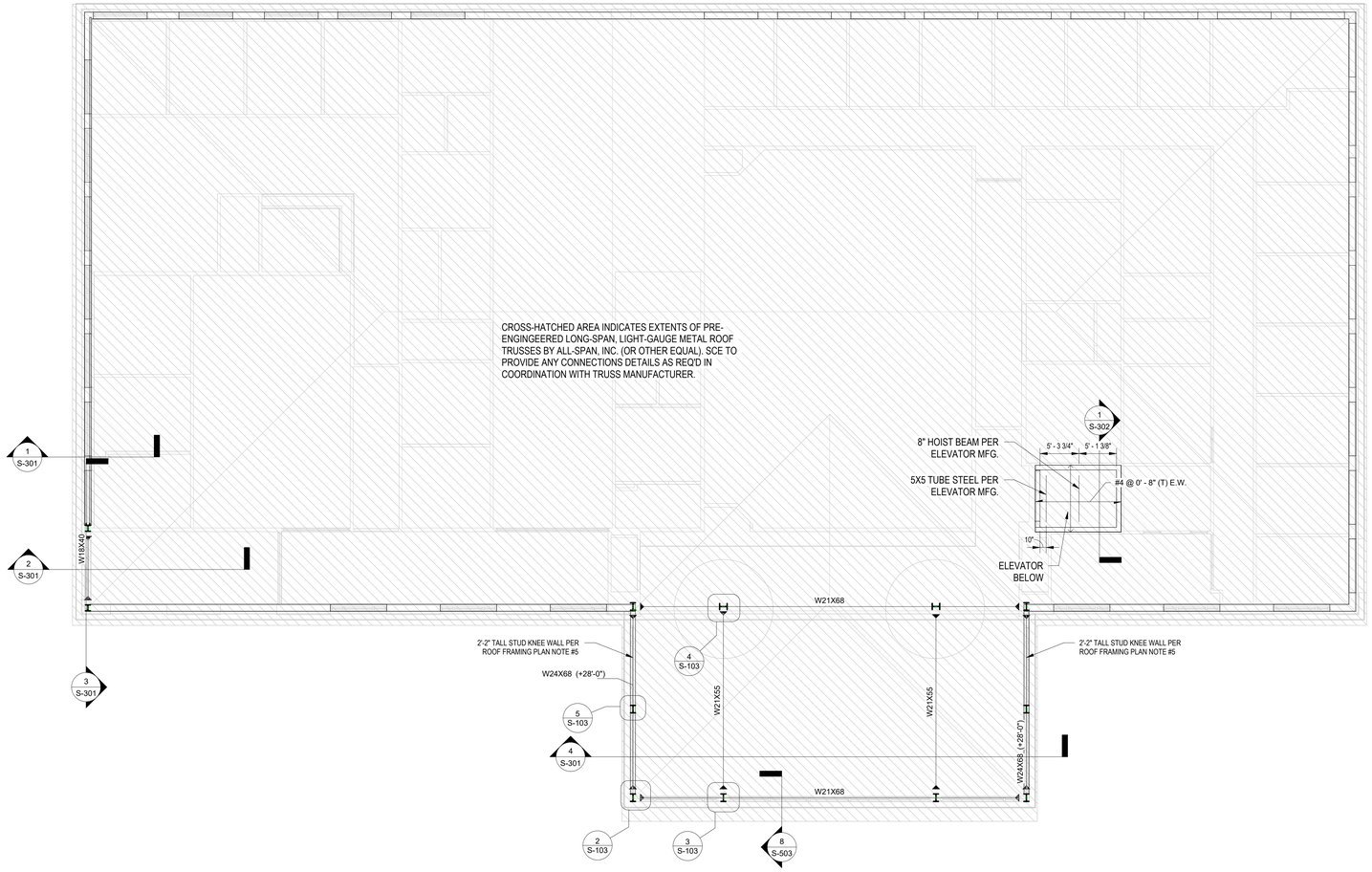
REVISIONS

NO.	DESCRIPTION	DATE

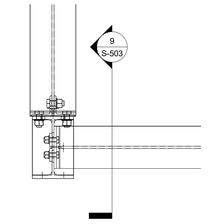
Project Number	**25004**
Dated	8/29/25

Level 2 Framing Plan

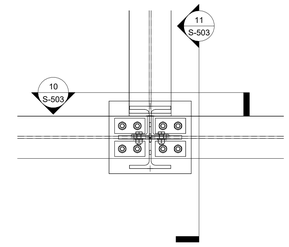
S-102



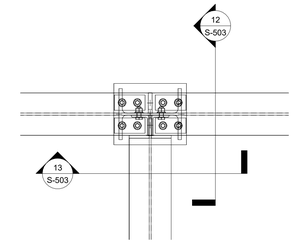
1 ROOF FRAMING PLAN
1/8" = 1'-0"



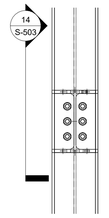
2 LOBBY UPPER MOMENT FRAME TO CORNER COLUMN
1" = 1'-0"



3 LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 1
1" = 1'-0"



4 LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 2
1" = 1'-0"



5 LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 3
1" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. FLOOR SLAB SHALL BE 3"TH NORMAL WEIGHT CONCRETE (4000 psi MIN.) w/ 6"x6" W2.5 x W2.5 WWM OVER 1.5VLI-20 GA COMPOSITE FLOOR DECK BY VULCRAFT OR OTHER EQUAL (3 SPAN MIN., 4.5" TOTAL THICKNESS).
2. TOP OF STEEL ELEVATION (TOP OF WALL) FOR ALL FRAMING MEMBERS SHALL (+30'-0") AND ARE TO BE MEASURED FROM LEVEL 1 TOP OF SLAB (+/-0'-0" RELATIVE ELEVATION).
3. ALL HORIZONTAL STRUCTURE MEMBERS HAVING TOP OF STEEL ELEVATION DIFFERING FROM THAT OF FINISHED WALL (+30'-0") HAVE THEIR RESPECTIVE ELEVATIONS FOLLOWING THEIR RESPECTIVE BEAM TAGS (+X'-X").
4. ROOF FRAMING SHALL CONSIST OF PRE-ENGINEERED, LONG-SPAN, LIGHT-GAUGE METAL ROOF TRUSSES BY OTHERS (MANUFACTURER TO BE DETERMINED). TRUSS MANUFACTURER SHALL PROVIDE TRUSS LAYOUT PLAN TO SCE PRIOR TO CONSTRUCTION. SCE SHALL PROVIDE ADDITIONAL DETAILING AS REQUIRED IN COORDINATION WITH ROOF TRUSS MANUFACTURER.
5. AT LOCATIONS REQ'D PER ROOF FRAMING PLAN, CONTRACTOR SHALL INSTALL 8"TH STEEL STUD KNEE WALL (DELEGATED DESIGN).

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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SCE SOUTHEASTERN CONSULTING ENGINEERS, INC.
120 N Hwy 71
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SCE Project Number: 25-93-01

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Gulf Coast State College

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

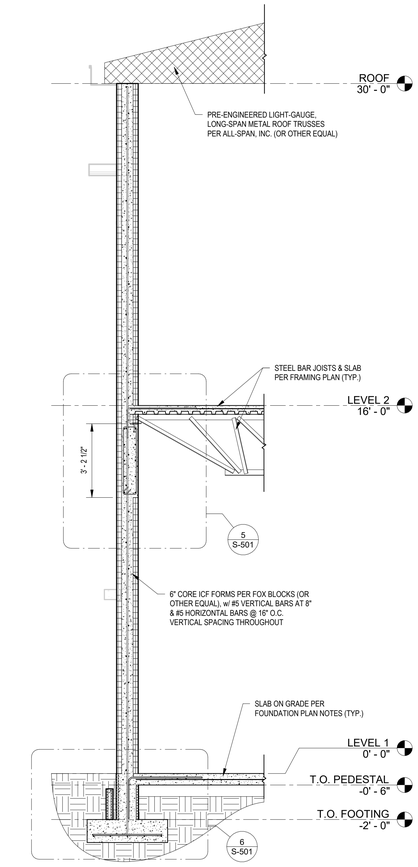
REVISIONS

NO.	DESCRIPTION	DATE

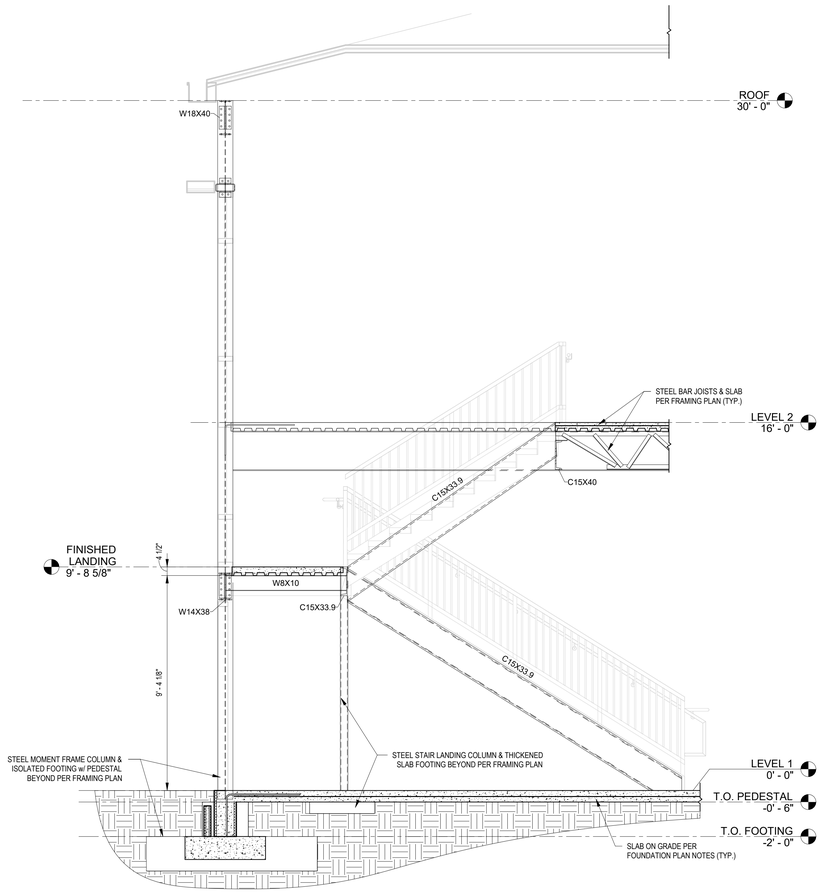
Project Number	**25004**
Dated	8/29/25

Roof Framing Plan

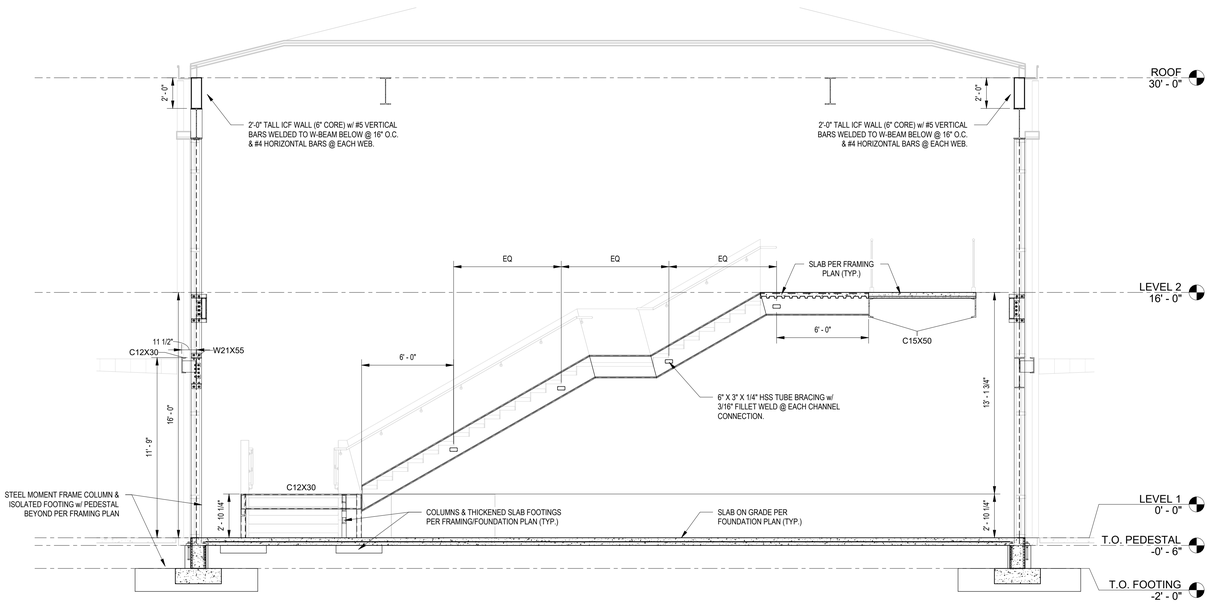
S-103



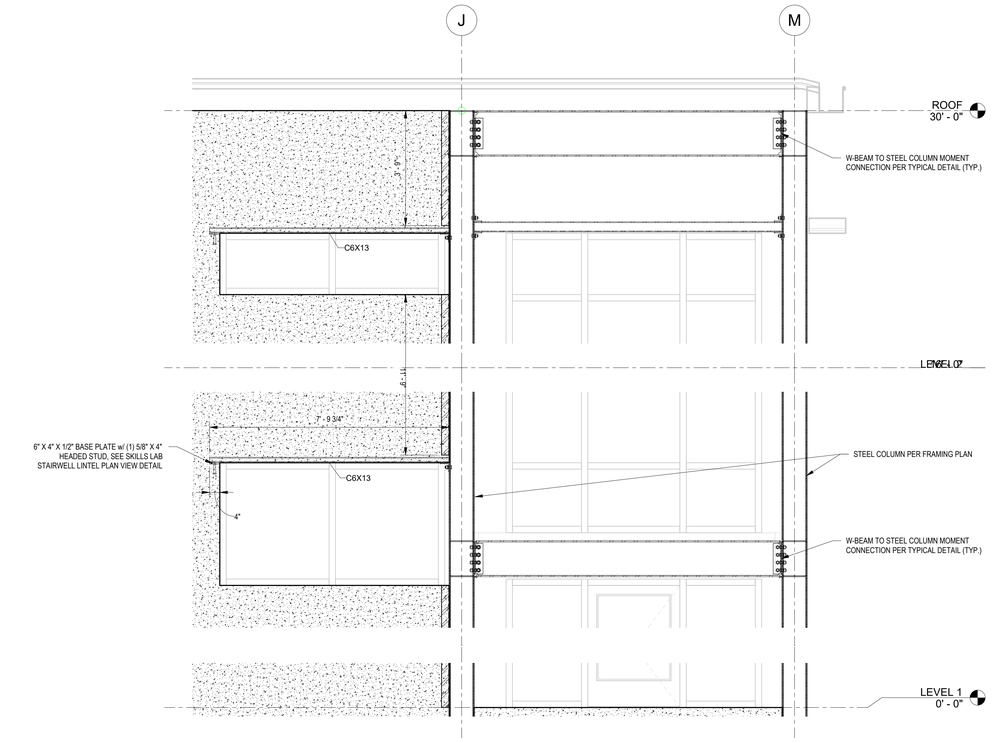
1 TYPICAL WALL SECTION
3/8" = 1'-0"



2 SECTION - SKILLS LAB STAIRWELL
3/8" = 1'-0"



4 SECTION - LOBBY STAIRWELL
1/4" = 1'-0"



ELEVATION - SKILLS LAB STAIRWELL
3 MOMENT FRAME & MISC.
1/2" = 1'-0"

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Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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CONSULTING ENGINEERS, INC.
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P.O. Box 141
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GCSC NURSING SIM. CENTER

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PANAMA CITY, FL, 32401

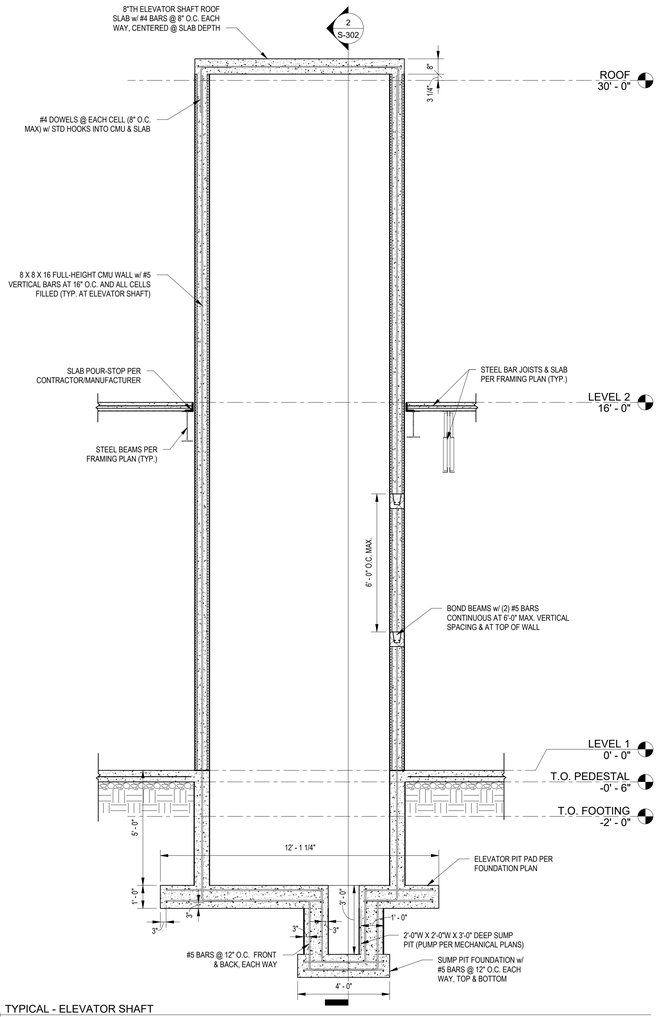
REVISIONS

NO.	DESCRIPTION	DATE

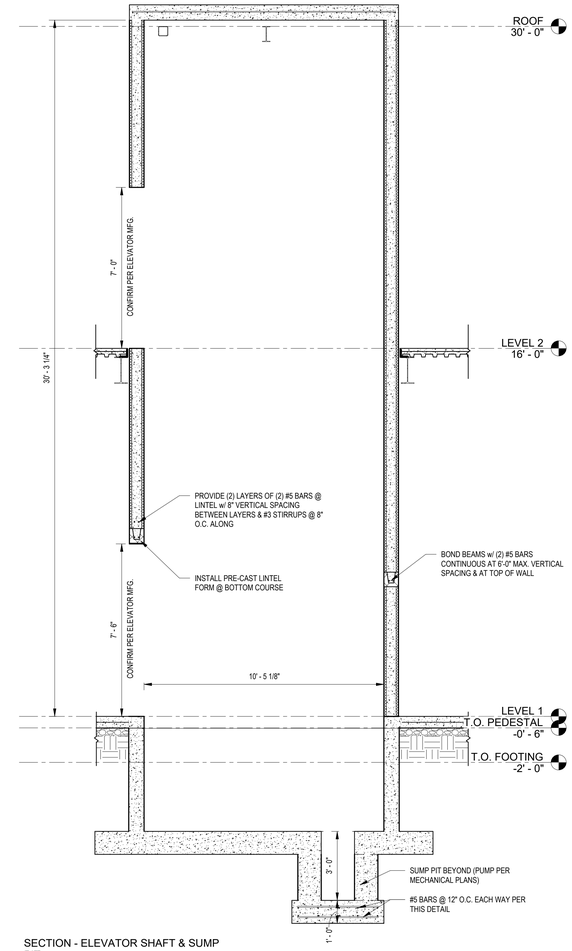
Project Number	25004
Dated	8/29/25

Typical Sections

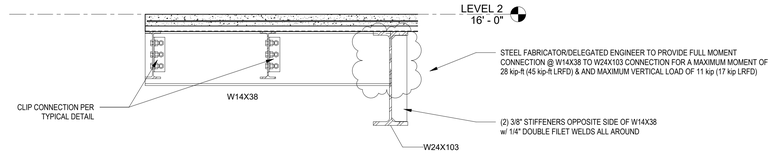
S-301



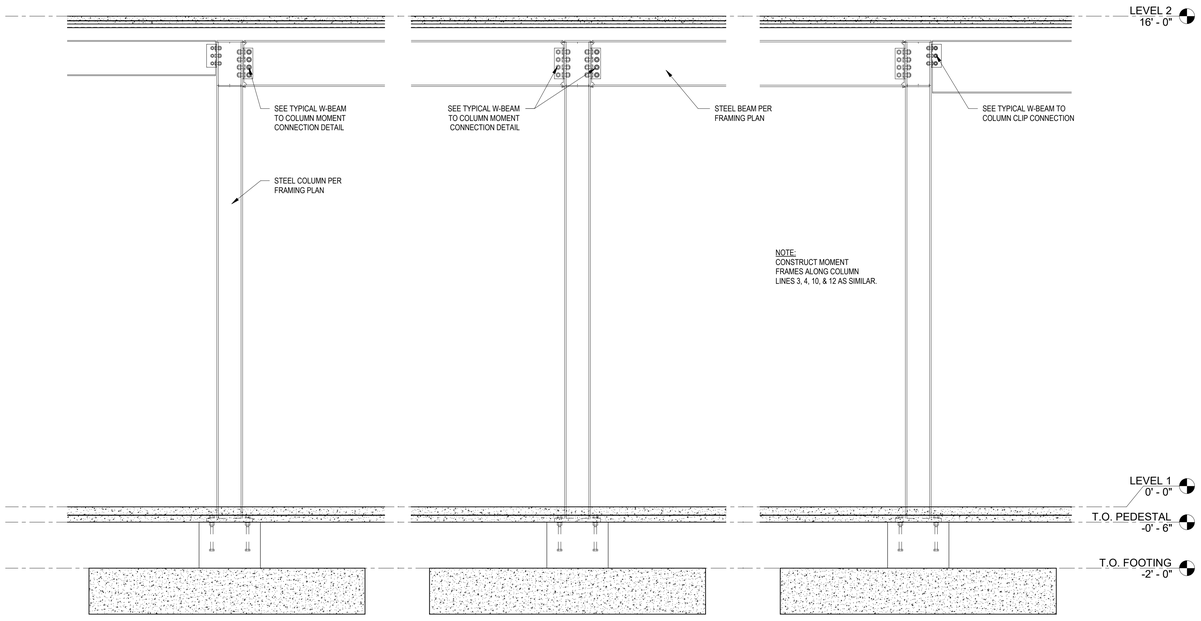
1 TYPICAL - ELEVATOR SHAFT
3/8" = 1'-0"



2 SECTION - ELEVATOR SHAFT & SUMP PIT
3/8" = 1'-0"



3 SECTION - CANTILEVERED BALCONY SECTION
3/4" = 1'-0"



4 SECTION - TYPICAL INTERIOR MOMENT FRAME
1/2" = 1'-0"

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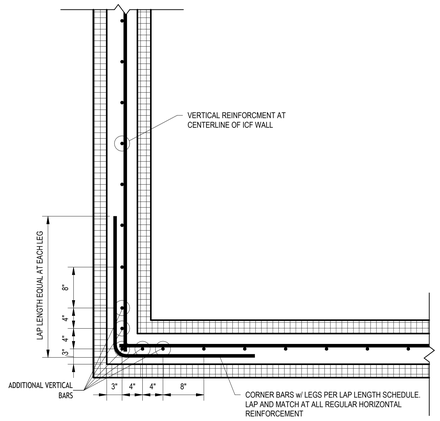
REVISIONS

NO.	DESCRIPTION	DATE
1	Revision 1	Date 1

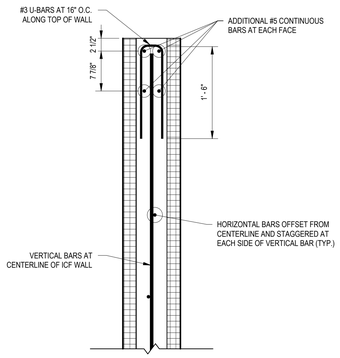
Project Number	**25004**
Dated	8/29/25

Typical Sections

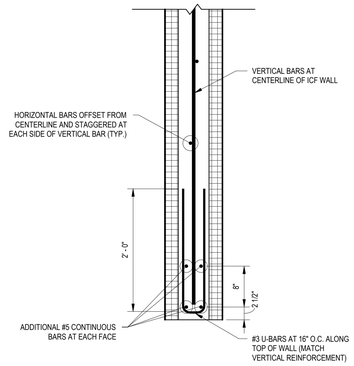
S-302



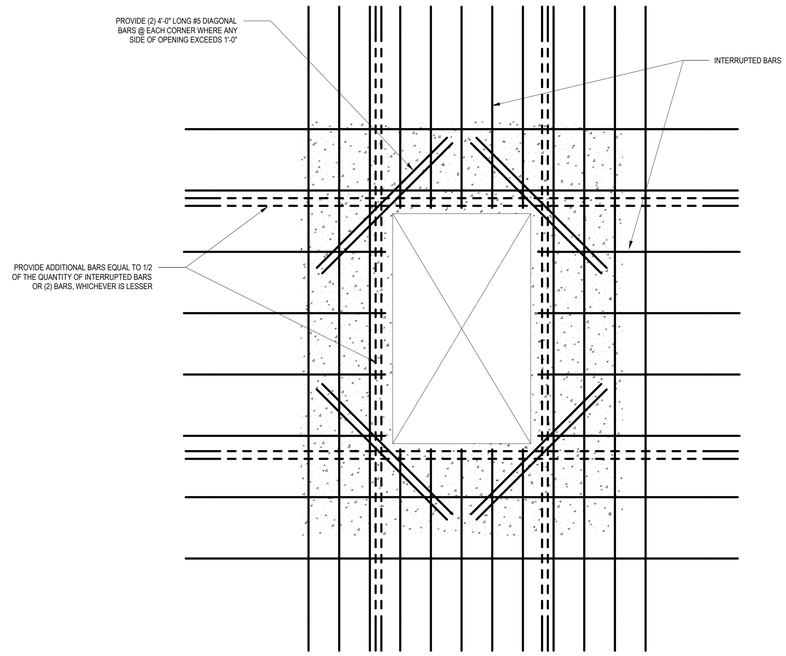
1 TYPICAL ICF REINFORCEMENT - PLAN VIEW
1" = 1'-0"



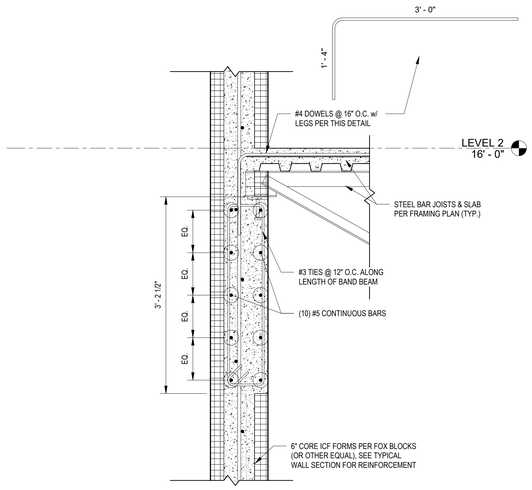
2 TYPICAL TOP OF WALL REINFORCEMENT - ELEVATION VIEW
1" = 1'-0"



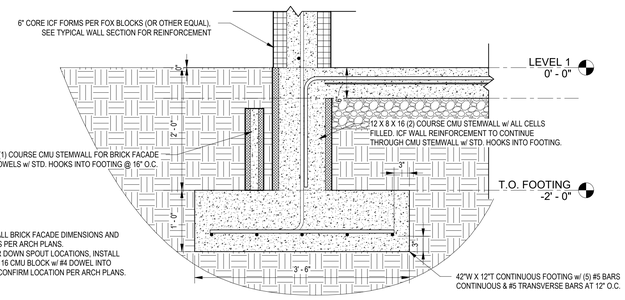
3 TYPICAL ICF WALL OPENING HEADER REINFORCEMENT
1" = 1'-0"



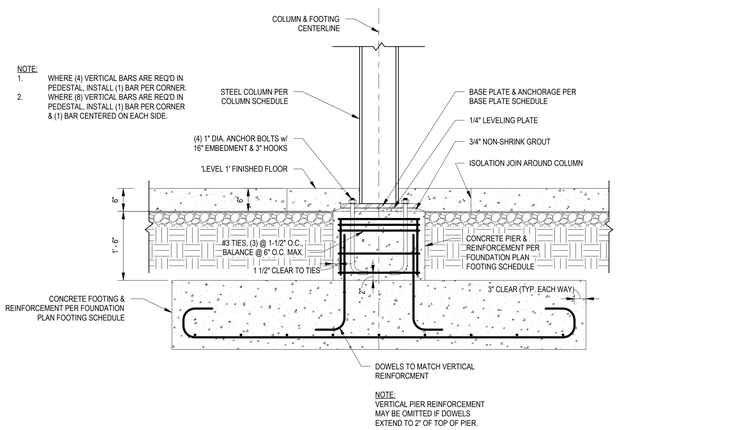
4 TYPICAL - ICF WALL OPENING REINFORCEMENT ELEVATION
3/4" = 1'-0"



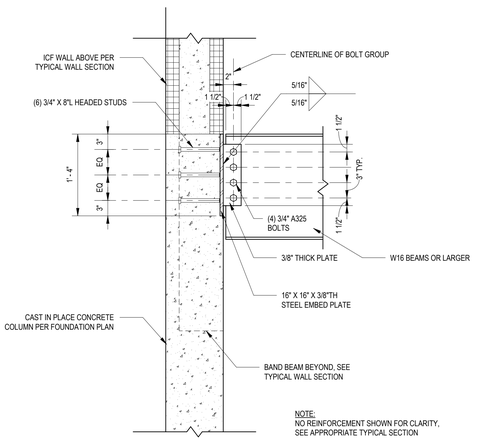
5 TYPICAL BAND BEAM & SLAB TIE-IN
1" = 1'-0"



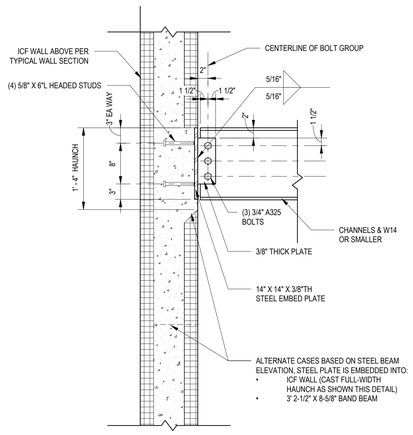
6 TYPICAL WALL FOOTING DETAIL
1" = 1'-0"



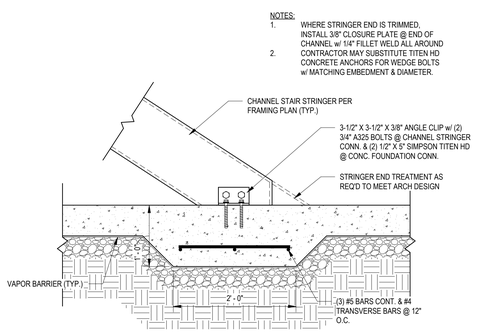
7 TYPICAL - CLOUMN, FOOTING, AND PIER
3/4" = 1'-0"



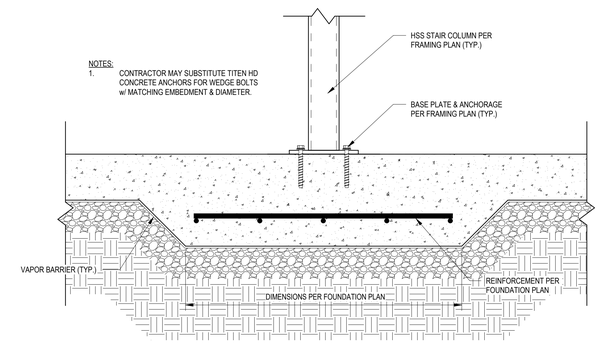
8 TYPICAL - HEAVY DUTY BEAM END EMBED @ BAND BEAM
1" = 1'-0"



9 TYPICAL - LIGHT DUTY BEAM END EMBED @ ICF WALL
1" = 1'-0"



10 TYPICAL - DEEPENED SLAB AT STRINGER
1" = 1'-0"



11 TYPICAL - THICKENED SLAB DETAIL
1 1/2" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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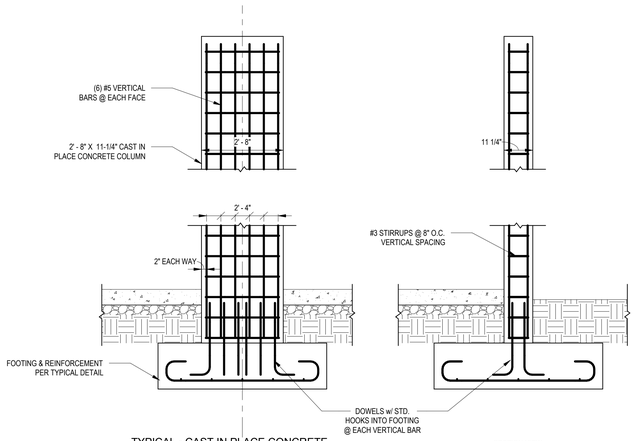
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25004
Dated	8/29/25

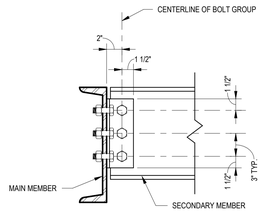
Typical Details

S-501



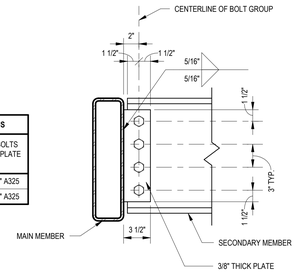
1 TYPICAL - CAST IN PLACE CONCRETE COLUMN
1/2" = 1'-0"

REQUIRED CONNECTION SPECIFICATIONS		
SECONDARY MEMBER DEPTH, d	NO. OF CLIPS	NO. BOLTS EACH CLIP
d < 9"	SINGLE	(2) 3/4" A325
9" < d < 16"	SINGLE	(3) 3/4" A325
16" < d	SINGLE	(3) 3/4" A325

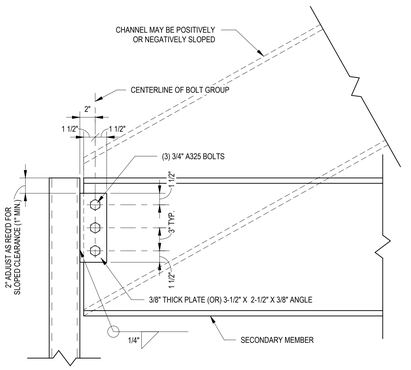


2 TYPICAL - CHANNEL TO CHANNEL CLIP CONNECTION
1 1/2" = 1'-0"

REQUIRED CONNECTION SPECIFICATIONS		
SECONDARY MEMBER DEPTH, d	NO. OF PLATES	NO. BOLTS EACH PLATE
d < 9"	SINGLE	(3) 3/4" A325
9" < d	SINGLE	(4) 3/4" A325

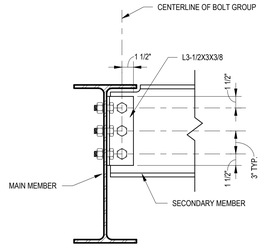


3 TYPICAL - CHANNEL TO HSS PLATE CONNECTION
1 1/2" = 1'-0"

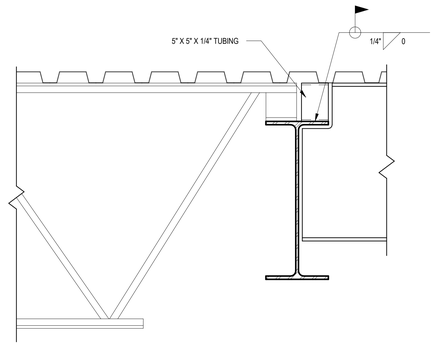


4 TYPICAL - CHANNEL TO TUBE COLUMN PLATE CONNECTION
1 1/2" = 1'-0"

REQUIRED CONNECTION SPECIFICATIONS		
SECONDARY MEMBER DEPTH, d	NO. OF CLIPS	NO. BOLTS EACH CLIP
W8 OR SMALLER	SINGLE	(2) 3/4" A325
CHANNELS, W14 OR SMALLER	SINGLE	(3) 3/4" A325
16" < d	SINGLE	(4) 3/4" A325



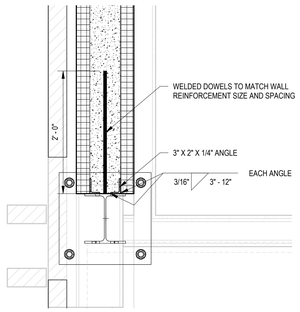
5 TYPICAL - W-BEAM/CHANNEL TO W-BEAM CLIP CONNECTION
1 1/2" = 1'-0"



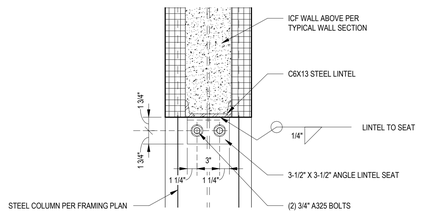
NOTE:
THIS DETAIL ALSO APPLIES FOR CONDITIONS WITH COPED BEAMS ON BOTH SIDES OF GIRDER

8 TYPICAL - DECK SUPPORT AT COPED BEAM
1 1/2" = 1'-0"

9 SKILLS LAB STAIRWELL LINTEL PLAN VIEW
1 1/2" = 1'-0"

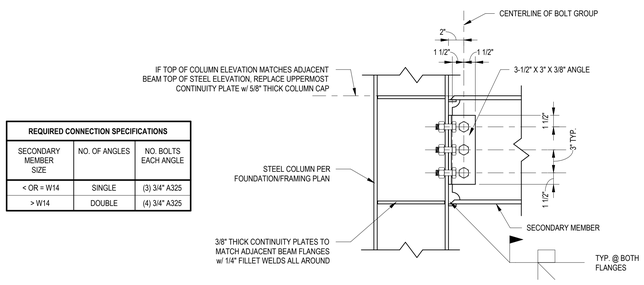


10 SKILLS LAB COLUMN WELDED FLANGE TO ICF PLAN VIEW
1" = 1'-0"



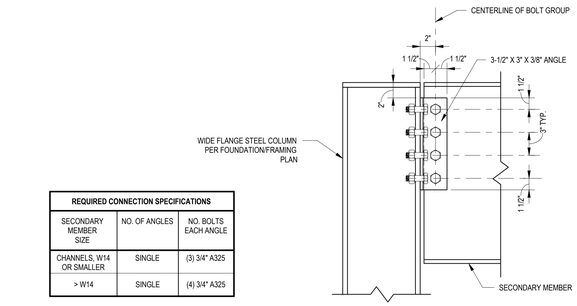
11 SECTION - STEEL LINTEL TO COLUMN CONNECTION
1 1/2" = 1'-0"

REQUIRED CONNECTION SPECIFICATIONS		
SECONDARY MEMBER SIZE	NO. OF ANGLES	NO. BOLTS EACH ANGLE
< OR = W14	SINGLE	(3) 3/4" A325
> W14	DOUBLE	(4) 3/4" A325



6 TYPICAL - W-BEAM TO COLUMN MOMENT CONNECTION
1 1/2" = 1'-0"

REQUIRED CONNECTION SPECIFICATIONS		
SECONDARY MEMBER SIZE	NO. OF ANGLES	NO. BOLTS EACH ANGLE
CHANNELS, W14 OR SMALLER	SINGLE	(3) 3/4" A325
> W14	SINGLE	(4) 3/4" A325



7 TYPICAL - W-BEAM/CHANNEL TO COLUMN CLIP CONNECTION
1 1/2" = 1'-0"

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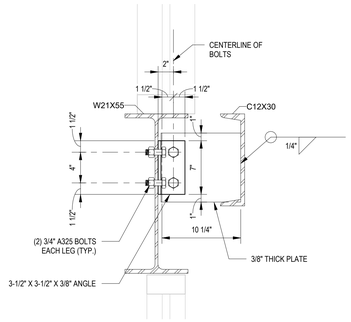
REVISIONS

NO.	DESCRIPTION	DATE

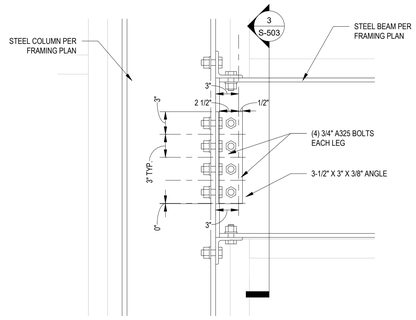
Project Number	**25004**
Dated	8/29/25

Typical Details

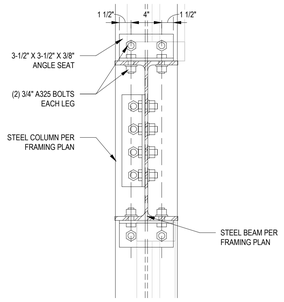
S-502



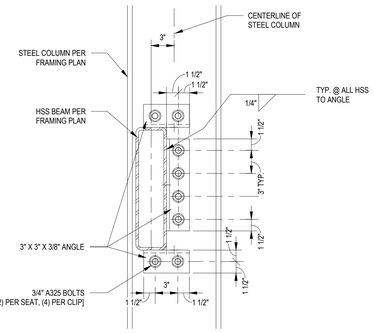
SECTION - LOBBY CANOPY BUILD UP BEAM SECTION
1 1 1/2" = 1'-0"



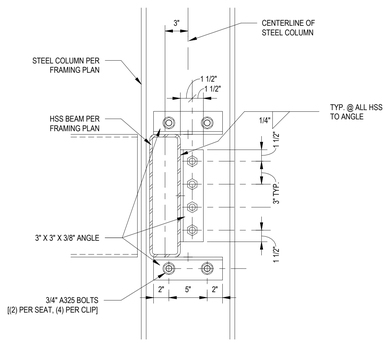
SECTION - LOBBY CANOPY HEADER CONNECTION VIEW 1
2 1 1/2" = 1'-0"



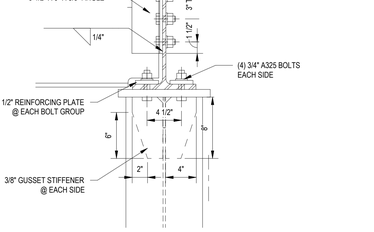
SECTION - LOBBY CANOPY HEADER CONNECTION VIEW 2
3 1 1/2" = 1'-0"



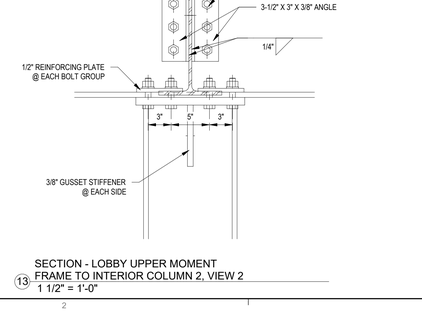
SECTION - LOBBY CURTAIN WALL SUPPORT TO INTERIOR COLUMN 1
4 1 1/2" = 1'-0"



SECTION - LOBBY CURTAIN WALL SUPPORT TO CORNER COLUMN 1
5 1 1/2" = 1'-0"



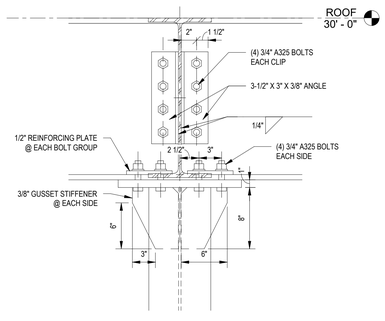
SECTION - LOBBY CURTAIN WALL SUPPORT TO CORNER COLUMN 2
6 1 1/2" = 1'-0"



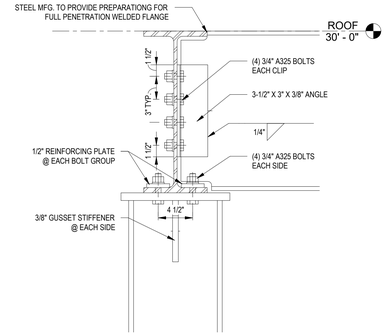
SECTION - LOBBY CURTAIN WALL SUPPORT TO INTERIOR COLUMN 2
7 1 1/2" = 1'-0"

SECTION - LOBBY CURTAIN WALL HEADER SECTION
8 1 1/2" = 1'-0"

SECTION - LOBBY UPPER MOMENT FRAME TO CORNER COLUMN
9 1 1/2" = 1'-0"



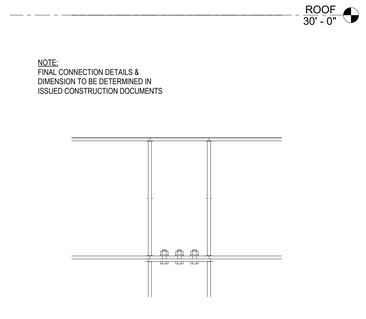
SECTION - LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 1, VIEW 1
10 1 1/2" = 1'-0"



SECTION - LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 1, VIEW 2
11 1 1/2" = 1'-0"

SECTION - LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 2, VIEW 1
12 1 1/2" = 1'-0"

SECTION - LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 2, VIEW 2
13 1 1/2" = 1'-0"



SECTION - LOBBY UPPER MOMENT FRAME TO INTERIOR COLUMN 3
14 1" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

SCE SOUTHEASTERN CONSULTING ENGINEERS, INC.
120 N Hwy 71
P.O. Box 141
Wewahitchka, FL 32465
SCE Project Number: 25-93-01

Gulf Coast State College

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	8/29/25

Typical Details

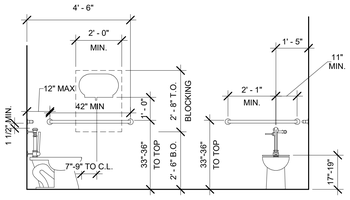
S-503

GENERAL NOTES

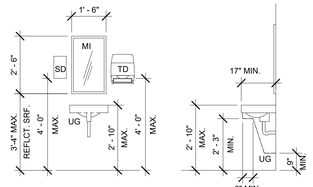
1. THE LIMIT OF WORK IN THESE CONTRACT DOCUMENTS IS 5'-0" FROM THE BUILDING PERIMETER OR UNLESS OTHERWISE SPECIFICALLY NOTED. SEE CIVIL FOR WORK OUTSIDE ARCHITECTURAL SCOPE OF WORK.
2. CONTRACTOR SHALL PREPARE EXISTING SURFACES TO RECEIVE NEW WORK AND/OR SHALL PATCH AND REPAIR SURFACES DAMAGED DURING REMOVAL OR INSTALLATION OF THE WORK INDICATED. DAMAGED SURFACES SHALL BE REPAIRED TO MATCH THE EXISTING ADJACENT SURFACES. WHERE REMOVAL OF EXISTING ITEMS CREATES VOIDS OR DEPRESSION IN EXISTING CONTRACTOR SHALL PATCH AND REPAIR FLUSH WITH EXISTING.
3. ARCHITECT DID NOT PERFORM A COMPREHENSIVE FIELD SURVEY AND IS NOT TO BE HELD ACCOUNTABLE FOR INACCURATE DIMENSIONS OR HIDDEN CONDITIONS. ALL DIMENSIONS OF EXISTING CONDITIONS ARE TO FINISHED SURFACES, WERE HAND MEASURED AND MAY HAVE BEEN ROUNDED OFF TO THE VALUES THE REPRESENTATION OF HIDDEN CONDITIONS IS BASED UPON ARCHITECT'S KNOWLEDGE OF TYPICAL CONSTRUCTION PRACTICES AND SHOULD BE VERIFIED BY THE CONTRACTOR.
4. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS TO INCLUDE DIMENSIONS, ELEVATIONS, COMPONENTS AND ASSEMBLIES BEFORE BIDDING, PURCHASE, FABRICATION, ASSEMBLY OR INSTALLATION. CONTRACT ADJUSTMENTS DUE TO FAILURE TO VERIFY NON-HIDDEN CONDITIONS WILL NOT BE ACCEPTED.
5. CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED ACCESS TO AND EGRESS FROM THE AREA OF WORK.
6. CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS ON A DAILY BASIS.
7. GENERAL CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AND MAINTAIN A QUALIFIED SUPERINTENDENT FULL-TIME WHEN WORK IS TO BE PERFORMED ON SITE AT ALL TIMES, NO EXCEPTIONS.
8. THE LOCATIONS OF KNOWN UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. SEE CIVIL FOR ADDITIONAL DIRECTIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION PRIOR TO CONSTRUCTION AND MAINTENANCE/REPAIRS DURING CONSTRUCTION OF SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS AND EROSION ON THE SITE OF DEVELOPMENT.
10. GENERAL CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE DURING CONSTRUCTION THAT SHOW AS-BUILT CONDITIONS OF ALL WORK INCLUDING PIPING, ELECTRICAL RUNS, DIMENSIONS, DISCOVERED ITEMS DUE TO DEMOLITION, ETC. THESE RECORD DRAWINGS ARE TO BE PROVIDED TO THE ARCHITECT PRIOR TO SUBSTANTIAL COMPLETION.
11. ANY DEVIATIONS IN THE WORK SHALL BE COORDINATED BETWEEN OWNER AND ARCHITECT PRIOR TO WORK PERFORMED. IF IT DOES NOT MEET APPROVAL OF OWNER AND ARCHITECT, THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED IN CORRECTING THE WORK AT NO EXPENSE TO THE OWNER. **DO NOT ACT ON OWNER VERBAL REQUESTS. ALL CHANGES SHALL BE IN WRITING FROM THE ARCHITECT, UNLESS NOTED ELSEWHERE.**
12. CONTRACTOR SHALL PROVIDE ALL LABOR, TOOLS & EQUIPMENT NECESSARY WHETHER INDICATED OR REQUIRED TO PROVIDE THE OWNER WITH A COMPLETE PROJECT READY FOR USE.
13. CONTRATORS SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL CODES AND LAWS IN PERFORMANCE OF THE WORK. ALL CONTRACTORS SHALL PROVIDE WRITTEN PROOF OF INSURANCE PRIOR TO NOTICE TO PROCEED.
14. GENERAL CONTRACTOR SHALL WARRANTY ALL PORTIONS OF THE WORK ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. GENERAL CONTRACTOR SHALL ACQUIRE ALL WARRANTIES FROM ALL TRADES AND SUBMIT FOR SUBSTANTIAL COMPLETION.
15. ALL DIMENSIONS ARE TO FACE OF STUD, TO FACE OF CMU, TO CENTER LINE OF COLUMN AND TO EDGE OF SLAB.
16. GENERAL CONTRACTOR SHALL COORDINATE SITE ACCESS AND SCHEDULE WITH THE OWNER IN ORDER TO MINIMIZE DISRUPTION OF THE OWNER'S ACCESS TO THE FACILITIES.
17. WORK SHALL BE PERFORMED ONLY DURING THE HOURS OF 7 AM TO 6 PM MONDAY THROUGH FRIDAY OR AS OTHERWISE DIRECTED BY LOCAL ORDINANCES, CODES OR RESTRICTIONS ESTABLISHED BY THE OWNER.
18. PROJECT KEYNOTES ARE SHEET SPECIFIC. EACH KEYNOTE IS FOR THAT PARTICULAR SHEET ONLY. IF SAME KEYNOTES ARE USED ON DIFFERENT SHEETS, THIS IS FOR EASE OF COMMUNICATION, BUT DOES NOT PRECLUDE OR OVERRIDE EACH INDIVIDUAL SHEET'S KEYNOTES.
19. PROVIDE EVIDENCE OF NOTICE OF ACCEPTANCE BY THE STATE OF FLORIDA FOR ALL EXTERIOR ASSEMBLIES AND PRODUCTS . THIS IS TO BE SUBMITTED TO THE AUTHORITY OF JURISDICTION PRIOR TO NOTICE OF COMMENCEMENT.
20. SEE STRUCTURE FOR DESIGN PRESSURES AND SOIL PREPARATION.
21. THIS PROJECT SHALL FOLLOW ALL REQUIREMENTS SET FORTH IN AIA DOCUMENT A201-2017 - GENERAL CONDITIONS. CONTRACTOR SHALL USE ALL AIA FORMS FOR PAY APPLICATIONS, CHANGE ORDERS, CHANGE DIRECTIVES, REQUESTS FOR INFORMATION, RELEASE OF LIENS, SUBSTANTIAL COMPLETION, FINAL COMPLETION, AND ETC. THAT REQUIRE COMMUNICATION BETWEEN ALL PARTIES, UNLESS DIRECTED OTHERWISE..
22. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL, MECHANICAL, PLUMBING, TELECOMMUNICATION, AND FIRE SPRINKLER ET AL PENETRATIONS. SEE OTHER DISCIPLINES FOR COORDINATION.
23. REFER TO OTHER CONTRACT DOCUMENTS FOR CLARIFICATIONS AND QUALIFICATIONS OF ITEMS NOT SPECIFICALLY IDENTIFIED IN THESE DOCUMENTS.
24. CONTRACTOR SHALL PROVIDE SOIL TERMITE CONTROL WITH THE OWNER'S CURRENT TERMITE SERVICE. GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING. PROVIDE MINIMUM ONE WEEK WRITTEN NOTIFICATION TO THE OWNER PRIOR TO WHEN TREATMENT IS TO BE APPLIED. IF AREAS DISTURBED BY SUBSEQUENT EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES AFTER THE APPLICATION OF THE SOIL TERMITE CONTROL, NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR ANY RE-APPLICATIONS IF REQUIRED AS DETERMINED BY THE ARCHITECT.
25. IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.
26. 7 DAYS PRIOR TO BID, IF A PRODUCT IS NOT SPECIFIED IN THESE DOCUMENTS, CONTRACTOR SHALL PROVIDE A LIST OF INTENDED PRODUCTS THAT INCLUDES MAKE, MANUFACTURER, MODEL, AND COLOR FOR REVIEW AND APPROVAL OF THE ARCHITECT. SEE DIVISION ONE FOR SUBMITTAL REQUIREMENTS.

STANDARD MOUNTING HEIGHTS

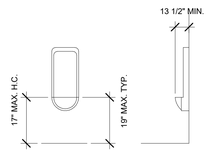
GENERAL NOTES:
1. COORDINATE ACCESSORY INSTALLATION WITH OWNER AND ARCHITECT.
2. SEE ENLARGED PLANS FOR SPECIFIC ACCESSORY LOCATIONS.



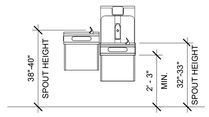
WATER CLOSET
STANDARD ADA



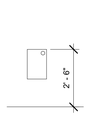
WALL MOUNTED LAVATORY
STANDARD ADA



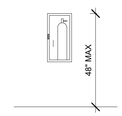
WALL MOUNTED URINAL



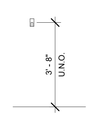
DRINKING FOUNTAIN HI/LOW



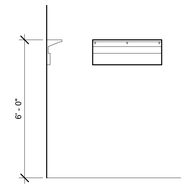
SANITARY NAPKIN
DISPOSAL



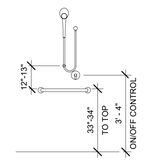
FIRE EXTINGUISHER CABINET



CLOTHES HOOK, TYP.



CUSTODIAL SHELF WITH MOP HOLDER



SHOWER CONTROLS

SPECIALTY EQUIPMENT SCHEDULE

MARK	DESCRIPTION	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED	OWNER PROVIDED	OWNER INSTALLED	COMMENTS
BB	FUTURE BALANCE BOX & VESA BRACKET FOR FLAT PANEL			OWNER PROVIDED	OWNER INSTALLED	CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING TO SUPPORT 250+ LBS AT LOCATIONS INDICATED. REFERENCE AV DRAWINGS
CP1	FREE STANDING COPIER			OWNER PROVIDED	OWNER INSTALLED	
CP2	DESKTOP PRINTER			OWNER PROVIDED	OWNER INSTALLED	
DR1	FRONT LOAD ELECTRIC DRYER	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			
EM1	EMERGENCY BROADCAST SYSTEM, WALL		CONTRACTOR INSTALLED	OWNER PROVIDED		REFERENCE TELECOMM DRAWINGS
EM2	EMERGENCY BROADCAST SYSTEM, CEILING		CONTRACTOR INSTALLED	OWNER PROVIDED		REFERENCE TELECOMM DRAWINGS
IM	ICE MAKER	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			
MB6	BLACK GLASS MARKER BOARD	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			
MW	MICROWAVE	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			
RF1	REFRIGERATOR WITH ICE MAKER	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			
TM1	WALL MOUNT FOR EBM	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			REFERENCE TELECOMM DRAWINGS
TM2	CEILING MOUNT FOR EBM	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			REFERENCE TELECOMM DRAWINGS
TV1	SMALL FLAT PANEL MONITOR		CONTRACTOR INSTALLED	OWNER PROVIDED		REFERENCE TELECOMM DRAWINGS
TV2	MEDIUM FLAT PANEL MONITOR		CONTRACTOR INSTALLED	OWNER PROVIDED		REFERENCE AV DRAWINGS
VM	VENDING MACHINE			OWNER PROVIDED	OWNER INSTALLED	
WS1	FRONT LOAD ELECTRIC WASHER	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED			

MEDICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROVIDED BY	INSTALLED BY	COMMENTS
MED-01	HOSPITAL BED	OWNER	OWNER	
MED-02	PYXIS MACHINE	OWNER	OWNER	PROVIDE ELECTRICAL AND DATA CONNECTIONS
MED-03	AMICO SURFACE MOUNT CONSOLE UNIT, WITH ELECTRICAL & DATA	CONTRACTOR	CONTRACTOR	
MED-04	DIAGNOSTIC STATION HEADWALL, WITH MEDICAL GAS: COMPRESSED AIR	CONTRACTOR	CONTRACTOR	PROVIDE ELECTRICAL AND DATA CONNECTIONS
MED-05	DIAGNOSTIC STATION HEADWALL, WITH MEDICAL GAS: COMPRESSED AIR & SUCTION	CONTRACTOR	CONTRACTOR	PROVIDE ELECTRICAL AND DATA CONNECTIONS
MED-06	DIAGNOSTIC STATION HEADWALL, WITH MEDICAL GAS: OXYGEN & SUCTION	CONTRACTOR	CONTRACTOR	PROVIDE ELECTRICAL AND DATA CONNECTIONS
MED-07	CLINIC CURTAIN END PANEL	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-08	CLINIC CURTAIN HI LOW WRAP AROUND	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-09	CLINIC CURTAIN WRAP AROUND	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-10	CLINIC CURTAIN WRAP AROUND	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-11	CLINIC CURTAIN END PANEL	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-12	CLINIC CURTAIN END PANEL	CONTRACTOR	CONTRACTOR	CEILING MOUNTED, REFER TO INTERIORS DRAWINGS FOR MANUFACTURER AND COLOR
MED-13	BED BUMPERS, AMICO 4" x 20" VERTICAL BED BUMPERS IN "BISCOTTI"	OWNER	OWNER	PROVIDE 2 WALL MOUNTED BUMPERS PER BED

NOTE: ALL TOILET ACCESSORIES TO BE REVIEWED WITH OWNER PRIOR TO PURCHASE

TOILET ACCESSORY SCHEDULE

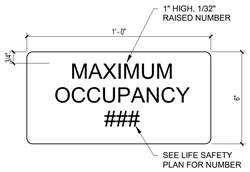
MARK	DESCRIPTION	MANUFACTURER	MODEL	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED	OWNER PROVIDED	OWNER INSTALLED
GB1	36" GRAB BAR	Bradley Corporation	8120-001360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
GB2	42" GRAB BAR	Bradley Corporation	8120-001360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MG1	MIRROR 18" x 36"	Bradley Corporation	781-018360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MG2	MIRROR 24" x 36"	Bradley Corporation	781-024360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MH	MOP & BROOM HOLDER, 3 HOLDERS	Bradley Corporation	9953 BradEX	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
PTD	PAPER TOWEL DISPENSER					OWNER PROVIDED	OWNER INSTALLED
SD	SOAP DISPENSER	Bradley Corporation	6A01-11			OWNER PROVIDED	OWNER INSTALLED
TTD	TOILET TISSUE DISPENSER					OWNER PROVIDED	OWNER INSTALLED

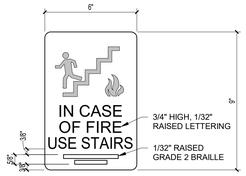
SOIL TREATMENT NOTE

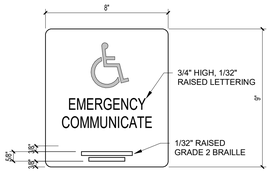
AS IDENTIFIED IN PROJECT SPECIFICATIONS SECTION 02280:
TREAT SOIL WITH EPA-REGISTRERED TERMITICIDE IN THE QUANTITY REQUIRED FOR APPLICATION AT THE LABEL VOLUME AND RATE FOR MAXIMUM TERMITICIDE CONCENTRATION ALLOWED FOR EACH SPECIFIED USE, ACCORDING TO THE PRODUCTS EPA-REGISTERED LABEL PRIOR TO PLACING CONCRETE FOOTINGS AND SLABS.

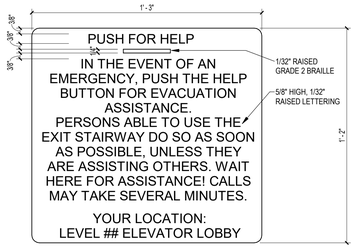
SIGNAGE TYPES

GENERAL NOTES:
1. ALL BRAILLE TO BE 1/4" HIGH & 1/32" RAISED.
2. ALL LETTERING TO BE 3/4" HIGH & 1/32" RAISED, UNLESS OTHERWISE NOTED.
3. ALL NUMBERS TO BE 1" HIGH & 1/32" RAISED.
4. SIGN TYPES LOCATED ON LIFE SAFETY AND ANNOTATION PLANS.
5. PROVIDE WALL MOUNTED ACRYLIC SLEEVES FOR EVACUATION MAPS AT INTERIOR OF ALL STUDENT OCCUPIED SPACES, IE. CLASSROOMS AND LABS.
6. REFER TO ALLOWANCES FOR ADDITIONAL SIGNAGE INFORMATION AND REQUIREMENTS.









STANDARD ABBREVIATIONS

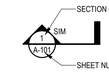
AC	AIR CONDITIONED
AD	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
BLDG	BUILDING
CL	CENTERLINE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CG	CORNER GUARD
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONT	CONTINUOUS
CTR	CENTER
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
EA	EACH
EIFS	EXT INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
EXIST	EXISTING
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER AND BRACKET
FEC	FIRE EXTINGUISHER AND CABINET
FLR	FLOOR
FT	FOOT, FEET
FV	FIELD VERIFY
GALV	GALVANIZED
GL	GLASS
HB	HOSE BIB
HC	HOLLOW CORE
HDCP	HANDICAP(PED)
HMF	HOLLOW METAL FRAME
HW	HARDWARE
IN	INCHES
INFO	INFORMATION
INT	INTERIOR
JAN	JANITOR
JB	JUNCTION BOX
JT	JOINT
KB	KNOX BOX
LAV	LAVATORY
LTG	LIGHTING
M	MOTOR
MAINT	MAINTENANCE
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE (HAND)
ORD	OVERFLOW ROOF DRAIN
OTS	OPEN TO STRUCTURE
PLBG	PLUMBING
PSI	POUNDS/SQUARE INCH
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RM	ROOM NAME
RO	ROUGH OPENING
R VALUE	THERMAL RESISTANCE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ FT	SQUARE FEET (FOOT)
STC	SOUND TRANSMISSION CLASS (COEFFICIENT)
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURE(AL)
SW	SWITCH
THRU	THROUGH
TLT	TOILET
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TYP	TYPICAL
UL	UNDERWRITER LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF
W/	WITH
WC	WATER CLOSET
WD	WOOD
WH	WALL HYDRANT
W/O	WITHOUT
XPS	EXTRUDED POLYSTYRENE BOARD

TOILET ACCESSORY ABBREVIATIONS

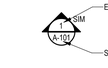
BCS	BABY CHANGING STATION
DCS	DIAPER CHANGING STATION
DF	DRINKING FOUNTAIN
EHD	ELECTRIC HAND DRYER
FCS	FOLDING SHOWER SEAT
FTD	FACIAL TISSUE DISPENSER
GB	GRAB BAR
HSD	HAND SANITIZER DISPENSER
MH	MOP AND BROOM HOLDER
MG	FRAMED MIRROR
MM	MIRROR MEDICINE CABINET
MT	MIRROR, TILT
PTD	PAPER TOWEL DISPENSER
RH	ROBE HOOK
SC	SHOWER CURTAIN
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SGR	SOAP & GRAB BAR COMBINATION, RECESSED
SH	SOAP HOLDER
SM	SHELF, METAL
SND	SANITARY NAPKIN DISPOSAL
SNTD	SANITARY NAPKIN AND TAMPON DISPENSER
TB	TOWEL BAR
TP	TOWEL PIN
TSCD	TOILET SEAT COVER DISPENSER
TTD	TOILET TISSUE DISPENSER
TSCRD	TOILET SEAT COVER/ TISSUE DISPENSER/ WASTE RECEPTACLE
TT	TOOTHBRUSH AND TUMBLER HOLDER
VM	VANITY MIRROR
WR	WASTE RECEPTACLE

STANDARD SYMBOLS

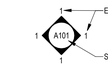
DRAWING SYMBOLS



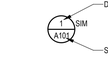
SECTION MARKER



ELEVATION MARKER



INTERIOR ELEVATION MARKER



DETAIL MARKER

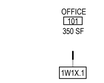
PROJECT NORTH ARROW

TRUE NORTH ARROW

INDICATES SLOPE DOWN

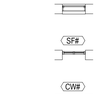
DENOTES REVISION NUMBER

PLAN SYMBOLS

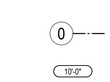


ROOM IDENTIFIER - NAME, NUMBER, AREA

PARTITION TYPE IDENTIFIER - SEE WALL TYPES



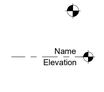
DOOR IDENTIFIER - SEE DOOR SCHEDULE



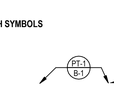
WINDOW IDENTIFIER -
SEE WINDOW TYPES AND ELEVATIONS

STOREFRONT WINDOW IDENTIFIER -
SEE STOREFRONT TYPES AND ELEVATIONS

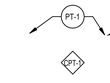
CURTAIN WALL IDENTIFIER -
SEE CURTAIN WALL TYPES AND ELEVATIONS



NEW COLUMN GRIDLINE



CEILING HEIGHT INDICATOR (DISTANCE AFF)



CEILING TYPE INDICATOR (TYPE MARK)

EQUIPMENT - CONTRACTOR-PROVIDED

EQUIPMENT - OWNER-PROVIDED

MEDICAL EQUIPMENT - OWNER-PROVIDED

SIGNAGE IDENTIFIER - SEE SIGN TYPES

SPOT ELEVATION MARKER

ELEVATION (FLOOR / LEVEL) MARKER

FINISH SYMBOLS

WALL AND BASE FINISH
EXTENT OF FINISH

WALL FINISH
EXTENT OF FINISH

FLOOR FINISH

CEILING / FLOOR FINISH

CHANGE IN SPECIFIED FINISH -
PROVIDE TRANSITION STRIP AS REQUIRED

DIRECTION OF SPECIFIED FINISH

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO.	DESCRIPTION	DATE

Project Number	25004
Dated	08.29.2025

ABBREVIATIONS & SYMBOLS

A-001

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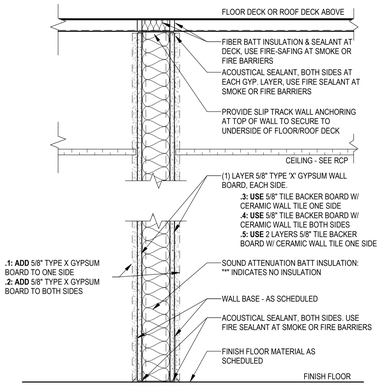
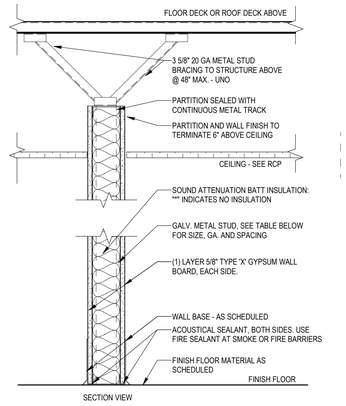


REFERENCE ACOUSTICAL ASSEMBLY GUIDE SOUNDBOOK 2.0 FOR NGC ASSEMBLIES
STC INDICATED IS BASED ON 20 GAUGE FULL HEIGHT PARTITIONS
NGC 2018106 @ 1S4 = 46 , NGC 2018130 @ 1S6 = 44
NGC 2028113 @ 1S4.2 = 52 , NGC 2018132 @ 1S6.2= 54

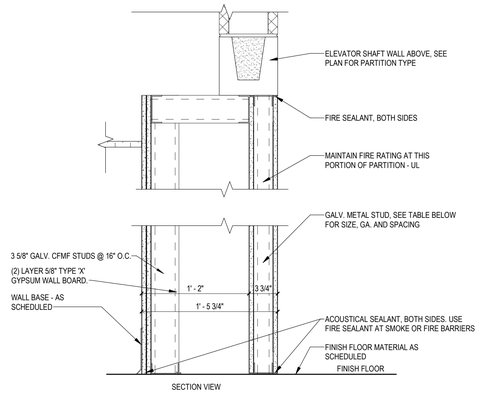
PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
1S4	-	-	46	3 5/8"	20 /16	"
1S4 | 1	1 HR	U 465	46	3 5/8"	20 /16	"
1S4.2		-	52	3 5/8"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD
1S4.2 | S	SMOKE	U 411	52	3 5/8"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD
1S4.2 | 1	1 HR	U 411	52	3 5/8"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD
1S4.3	-		46	3 5/8"	20 / 16	ONE SIDE: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
1S4.4			46	3 5/8"	20 /16	BOTH SIDES: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
1S4.5 | 1	1 HR	U 411	52	3 5/8"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ONE SIDE: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
1S6	-	-	44	6"	20 /16	
1S6 | 1	1 HR	U 465	44	6"	20 /16	"
1S6.2			54	6"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD
1S6.3			54	6"	20 /16	ONE SIDE: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
1S6.2 | 1	1 HR	U 411	54	6"	20 /16	BOTH SIDES: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD

1S#: METAL STUD INTERIOR FULL HEIGHT PARTITION



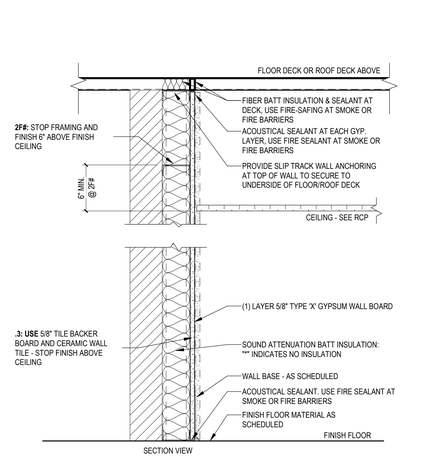
PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
2S4	-	-	-	3 5/8"		"
2S4.4	-		-	3 5/8"	20 / 16	BOTH SIDES: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
2S6	-	-	-	6"	20 / 16	"
2S6.1	-	-	-	6"	20 / 16	ONE SIDE: ADD ONE LAYER 5/8" TYPE "X" GYPSUM BOARD

2S#: METAL STUD INTERIOR PARTIAL HEIGHT ABOVE CEILING PARTITION



PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
3S4.1|1	1 HR	U465	-	3 5/8" & 2 1/2"	20 / 16	MAINTAIN FIRE RATING OF WALL IN LINE WITH CMU WALL

3S#: METAL STUD INTERIOR PARTIAL HEIGHT PARTITION AT ELEVATOR CONTROLLER



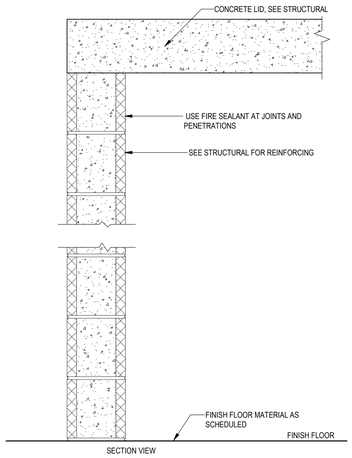
REFERENCE NATIONAL GYPSUM DESIGN & RESOURCE CENTER ONLINE FOR NGC ASSEMBLIES
STC INDICATED IS BASED ON 20 GAUGE FULL HEIGHT PARTITIONS
NGC 2018083 = 60

PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
4S10	-	-	-	3 5/8"	20 / 16	
4S10|S	SMOKE	UL V488	60	3 5/8"	20 / 16	
4S10|1	1 HR	UL V488	60	3 5/8"	20 / 16	

4S#: METAL STUD INTERIOR FULL HEIGHT CHASE WALL PARTITION

PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
2F0	-	-	-	7/8"	20 / 16	EXTEND 6" ABOVE CEILING, NO INSULATION IN CAVITY
***2F3**	-	-	-	2 1/2"	20 / 16	EXTEND 6" ABOVE CEILING, NO INSULATION IN CAVITY
1F4	-	-	-	3 5/8"	20 / 16	
***1F4**	-	-	-	3 5/8"	20 / 16	NO INSULATION IN CAVITY
2F4	-	-	-	3 5/8"	20 / 16	"
2F4.3	-	-	-	3 5/8"	20 / 16	ONE SIDE: USE 5/8" TILE BACKER BOARD AND CERAMIC WALL TILE
2F6	-	-	-	6"	20 / 16	"

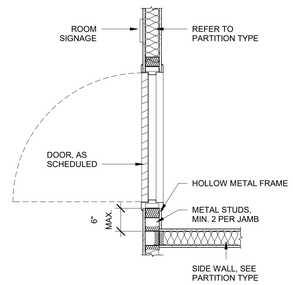
#F#: METAL INTERIOR FURRING



PARTITION TYPE	RATING	UL	STC	STUD SIZE	STUD MODIFICATION GA / SPACING	NOTES
M8 | 1	1 HR	UL906	-		- / -	COORDINATE OPENINGS WITH ELEVATOR MFR/SHOP DRAWINGS

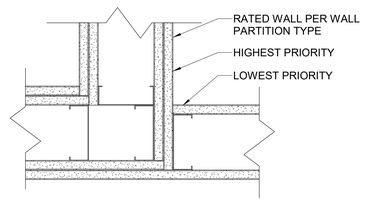
M8: 8" CMU

NOTE: REFER TO DIMENSION PLANS FOR EXCEPTIONS TO TYPICAL INSTALL



TYPICAL INTERIOR DOOR INSTALL

3/4" = 1'-0"



WALL PRIORITY LEGEND:	
2 HOUR FIRE AND SMOKE WALL	PRIORITY 1
2 HOUR FIRE WALL	PRIORITY 2
2 HOUR SHAFTWALL	PRIORITY 2
1 HOUR FIRE AND SMOKE WALL	PRIORITY 3
1 HOUR FIRE WALL	PRIORITY 4
NON-RATED WALL	PRIORITY 5

WALL PRIORITY DETAIL

3" = 1'-0"

GENERAL NOTES

PARTITION TYPES

WALL AND PARTITION GENERAL NOTES:

1. ALL MASONRY TO BE RUNNING BOND WITH CONCAVE JOINTS, UNLESS OTHERWISE INDICATED.
2. REFER TO STRUCTURE FOR LOAD BEARING AND LATERAL LOAD RESISTANT WALL CONSTRUCTION
3. MAXIMUM STUD SPACING TO BE 16" O.C. UNLESS OTHERWISE INDICATED.
4. MINIMUM STUD GAUGE TO BE PER MANUFACTURER'S SPAN CHARTS AS DERIVED FROM ASTM C754-15 FOR PROJECT CONDITIONS UNLESS OTHERWISE INDICATED.
5. PROVIDE (2) METAL STUDS MIN. AT ALL JAMB CONDITIONS.
6. PROVIDE CEMENTITIOUS TILE BACKER BOARD BEHIND TILE AND MOISTURE RESISTANT GYPSUM WALL BOARD ABOVE CEMENTITIOUS BACKER AND TILE, WHERE OCCURS.
7. CONTRACTOR SHALL PROVIDE **20 GAUGE GALV. SHEET METAL** REINFORCING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT INCLUDING TVs, CASEWORK, GRAB BARS, AND OTHER ITEMS.
8. ALL STUD PARTITION CAVITIES SHALL RECEIVE UNFACED SOUND BATT INSULATION FULL THICKNESS AND HEIGHT OF FRAMING UNLESS OTHERWISE INDICATED.
9. PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT BOTTOM OF GYP. BOARD AT STUD PARTITIONS
10. SOUND RATED PARTITIONS: AT ALL 1, 2, AND 4 TYPE PARTITIONS PROVIDE THE FOLLOWING UNLESS OTHERWISE INDICATED.
    - PROVIDE 2 CONTINUOUS BEADS OF ACOUSTICAL SEALANT AROUND PERIMETER OF PARTITIONS AT JOINT BETWEEN END OF WALL AND ADJACENT CONSTRUCTION.
    - ALL JUNCTION BOXES ARE TO BE INSTALLED WITH SOUND PUTTY PADS FULLY WRAPPING THE OUTSIDE OF THE BOX.
    - ISOLATE ALL RIGID CONDUIT, DUCTS, PLUMBING PIPES, VENTS, ETC. FROM THE BUILDING CONSTRUCTION BY MEANS OF RESILIENT SLEEVES, MOUNTS, OR 1/4" MINIMUM THICK RESILIENT MATERIALS.
11. ELECTRICAL JUNCTION BOXES SHALL NEVER BE INSTALLED "BACK TO BACK".
12. CUT GYPSUM BOARD TO FIT AROUND METAL DECK PROFILE.
13. SEAL ALL FLOOR AND WALL PENETRATIONS.

GENERAL NOTES FOR FIRE RATED WALLS AND PARTITIONS; AND SMOKE PARTITIONS:

1. PROVIDE FIRE RATED GYPSUM WALL BOARD AT FIRE RATED PARTITION ASSEMBLIES.
2. PROVIDE FIRE SEALANT AT TOP AND BOTTOM TRACKS OF ALL FIRE-RATED WALLS AND PARTITIONS.
3. PROTECT ALL CABLE, CONDUIT, PIPE, AND MECHANICAL DUCT PENETRATIONS WITH A FIRE-STOP SYSTEM OR DEVICES AT ALL FIRE-RATED WALLS, PARTITIONS, FLOORS, AND ROOF.
4. PENETRATIONS FOR CABLES, CONDUIT, PIPES AND MECHANICAL DUCTS SHALL BE PROTECTED BY A SYSTEM OR MATERIALS CAPABLE OF LIMITING THE TRANSFER OF SMOKE AT SMOKE RATED WALLS AND/OR PARTITIONS.
5. AIR TRANSFER OPENINGS IN SMOKE PARTITIONS SHALL BE PROVIDED WITH SMOKE DAMPERS PER NFPA 101, SECTION 8.4.6 WHERE REQUIRED - REFER TO MECHANICAL.
6. LABEL FIRE AND SMOKE WALLS AND PARTITIONS ABOVE CEILING, IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. LETTERING TO BE MIN. 3" HIGH, WITHIN 15' OF EACH END OF PARTITION AND NOT EXCEEDING 30' APART.

TOP OF PARTITION IDENTIFIER or CORE ASSEMBLY VARIATION LEGEND:

1 FULL HEIGHT: PARTITION TO TERMINATE AND SEAL TO UNDERSIDE OF DECK ABOVE.

2 PARTIAL HEIGHT, ABOVE CEILING: PARTITION TO TERMINATE ABOVE HIGHEST ADJACENT CEILING AND BRACE TO STRUCTURE ABOVE; HEIGHT AND BRACING AS INDICATED IN PARTITION DIAGRAMS.

3 PARTIAL HEIGHT: PARTITION TO TERMINATE AT HEIGHT INDICATED AND BE BRACED / REINFORCED AS INDICATED ON PARTITION DIAGRAMS.

4 FULL/PARTIAL HEIGHT: PARTITION FRAMING TO TERMINATE AT UNDERSIDE OF DECK ABOVE. PARTITION FINISH TO TERMINATE AT INDICATED DISTANCE ABOVE FINISH CEILING.

PARTITION CORE TYPE AND SIZE LEGEND:

#F0 - 7/8" HAT CHANNEL
#F1 - 1 1/2" CHANNEL
#F2 - 1 5/8" METAL STUD
#F3 - 2 1/2" METAL STUD
#F4 - 3 5/8" METAL STUD
#F6 - 6" METAL STUD
#F8 - 8" METAL STUD

M4 - 4" CONCRETE MASONRY UNIT
M6 - 6" CONCRETE MASONRY UNIT
M8 - 8" CONCRETE MASONRY UNIT
M12 - 12" CONCRETE MASONRY UNIT

#S4 - 3 5/8" METAL STUD
#S6 - 6" METAL STUD
#S8 - 8" METAL STUD

SH3 - 2 1/2" METAL C-H STUD
SH4 - 4" METAL C-H STUD

PARTITION MODIFIER LEGEND

.1 ADD ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD ONE SIDE.

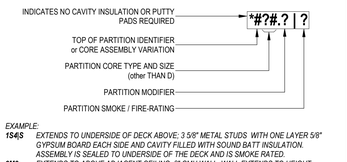
.2 ADD ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE.

.3 REPLACE GYPSUM BOARD ONE SIDE WITH 5/8" TILE BACKER BOARD AND CERAMIC TILE.

.4 REPLACE GYPSUM BOARD EACH SIDE WITH 5/8" TILE BACKER BOARD AND CERAMIC TILE.

.5 ADD ONE LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE; REPLACE BOTH LAYERS OF GYPSUM BOARD ONE SIDE WITH 5/8" TILE BACKER BOARD AND CERAMIC TILE.

LEGEND



EXAMPLE:

1S4|S *EXTENDS TO UNDERSIDE OF DECK ABOVE; 3 5/8" METAL STUDS WITH ONE LAYER 5/8" GYPSUM BOARD EACH SIDE AND CAVITY FILLED WITH SOUND BATT INSULATION. ASSEMBLY IS SEALED TO UNDERSIDE OF THE DECK AND IS SMOKE RATED.*

2M8 *EXTENDS TO ABOVE ADJACENT CEILING; 8" CMU WALL. WALL EXTENDS TO HEIGHT INDICATED OR AT LEAST ONE FULL COURSE ABOVE ADJACENT CEILING HEIGHT.*

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AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

PARTITION TYPES INTERIOR

A-011

GENERAL NOTES

SITE PLAN

1. UNLESS OTHERWISE INDICATED, FOR CONCRETE SIDEWALKS AND EXISTING SITE ELEMENTS, REFER TO CIVIL DRAWINGS.
2. THE PRIMARY INTENT OF THIS DRAWINGS IS FOR COORDINATION OF SITE ELEMENTS INCLUDED IN THE ARCHITECTURAL PORTION OF THE DRAWINGS. FOR ADDITIONAL SITE ELEMENTS, REFER TO ENGINEERING DRAWINGS.
3. REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPING.

STUDENT UNION EAST

SOCIAL SCIENCE

HVAC LINES

JAMES R. ASBELL BUSINESS BUILDING

LIBRARY

A1
A-102

CENTRAL HVAC PLANT

COLLEGIATE DRIVE

ADDITIVE ALTERNATE#2: PAVING, SEATWALL, LANDSCAPING, AND ASSOCIATED UNDERGROUND DRAINAGE

LANGUAGE ARTS

LA FRIANDISE DINING ROOM

ROSENWALD CLASSROOM

PHYSICAL SCIENCE

TRUE NORTH

1" = 30'-0"

30 0 30 60

SCALE FEET

A1 ARCHITECTURAL SITE PLAN
1" = 30'-0"

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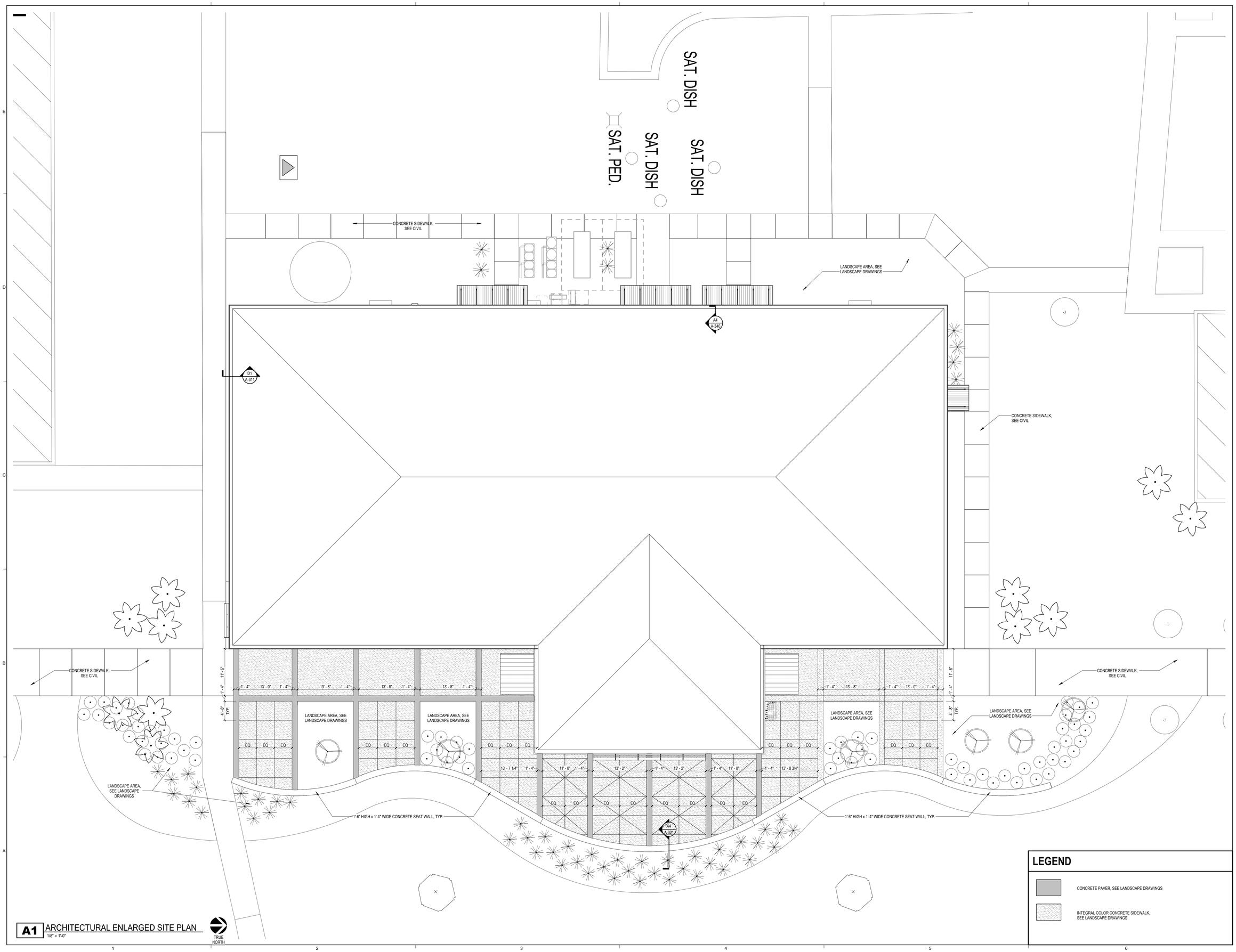
ARCHITECTURAL SITE PLAN
A-101



LEGEND

- CONCRETE PAVER, SEE LANDSCAPE DRAWINGS
- INTEGRAL COLOR CONCRETE SIDEWALK, SEE LANDSCAPE DRAWINGS

A1 ARCHITECTURAL ENLARGED SITE PLAN
1/8" = 1'-0"

TRUE NORTH

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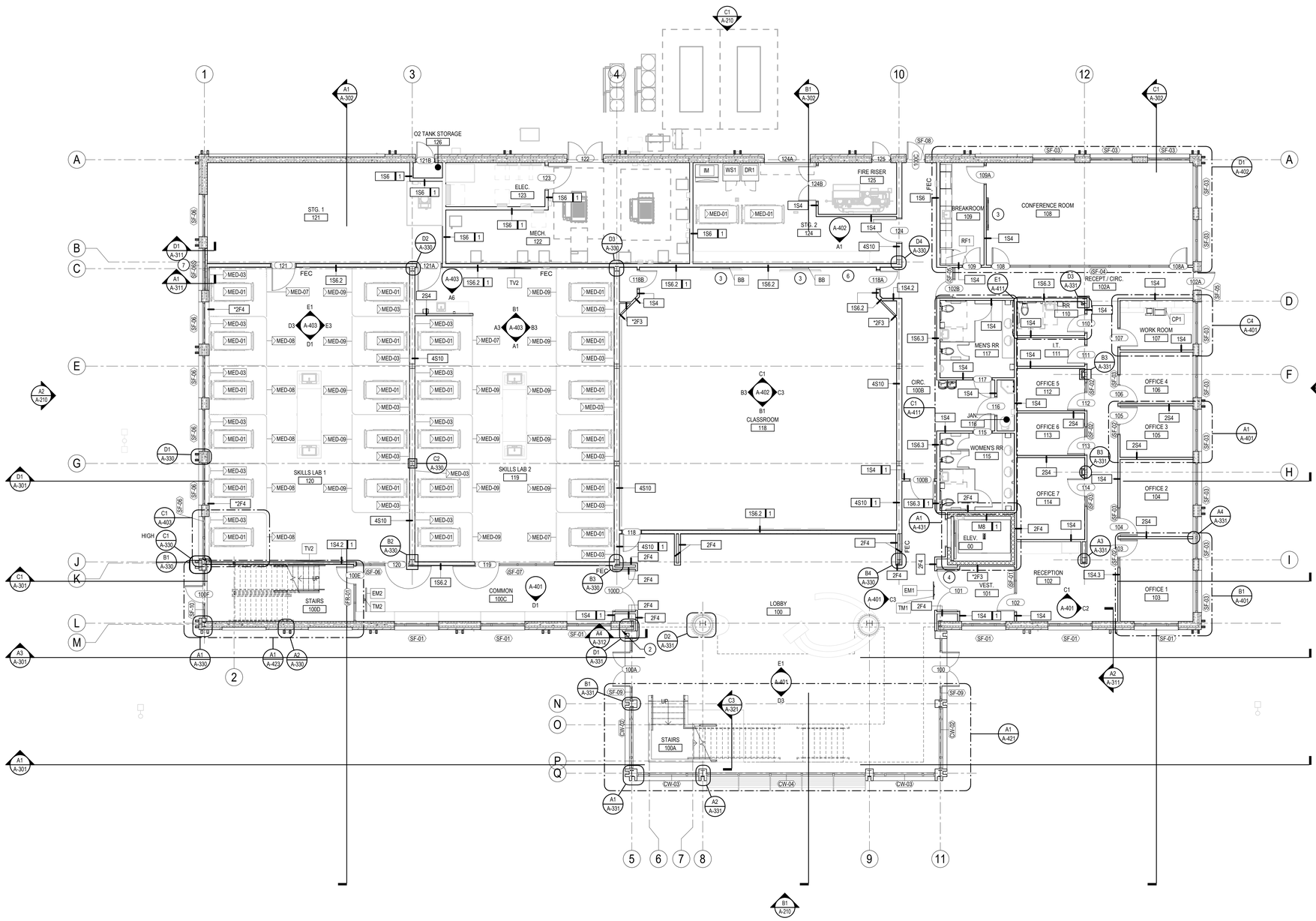
ARCHITECTURAL ENLARGED SITE PLAN

A-102



GENERAL NOTES

FLOOR PLAN

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
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3. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
4. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
5. REFER TO FINISH SCHEDULE(S) IN INTERIORS SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. ALL DIMENSIONS ON THE DIMENSION PLANS ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - ALL DIMENSIONS TO CMU ARE TO FACE OF CMU.
   - ALL DIMENSIONS TO STUDS ARE TO FACE OF STUD, INCLUDING PARTITION TYPES WITH RESILIENT CHANNELS
   - ALL DIMENSIONS TO BRICK ARE TO OUTSIDE FACE OF BRICK.
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9. REFER TO LS-SERIES LIFE SAFETY SHEETS FOR FIRE RATED AND SMOKE PARTITION LOCATIONS.
10. REFER TO STRUCTURAL FOR BRACING TYPE AND LOCATIONS.
11. REFER TO PLUMBING FOR FIXTURE SCHEDULES.
12. CONTRACTOR SHALL PROVIDE ISOLATION BETWEEN DISSIMILAR METALS.
13. PROVIDE CONCRETE SPLASH BLOCKS / METAL SPLASH PANS AT ALL DOWNSPOUTS THAT DRAIN TO ROOFS OR GRADE, AND AT ALL CANOPY COLUMNS THAT DRAIN TO GRADE.

LEGEND

FLOOR PLAN

- OFFICE 100 350 SF — ROOM IDENTIFIER - NAME, NUMBER, AREA
- 1W1X.1 — PARTITION TYPE IDENTIFIER - SEE WALL TYPES
- 100.1A — DOOR IDENTIFIER - SEE DOOR SCHEDULE
- # — WINDOW IDENTIFIER - SEE WINDOW TYPES AND ELEVATIONS
- SF# — STOREFRONT WINDOW IDENTIFIER - SEE STOREFRONT TYPES AND ELEVATIONS
- CW# — CURTAIN WALL IDENTIFIER - SEE CURTAIN WALL TYPES AND ELEVATIONS
- 0 — NEW COLUMN GRIDLINE
- SPOT ELEVATION MARKER
- EQ-1 — EQUIPMENT - CONTRACTOR-PROVIDED
- EQ-1 — EQUIPMENT - OWNER-PROVIDED
- MED-99 — MEDICAL EQUIPMENT - OWNER-PROVIDED
- 1 — SIGNAGE IDENTIFIER - SEE SIGN TYPES

SHEET NOTES

ANNOTATION PLAN

1. WALLS TO RECEIVE LEVEL 5 GYPSUM BOARD FINISH.
2. BUILDING PLAQUE, COORDINATE FINAL LOCATION WITH ARCHITECT.
3. FLAT PANEL DISPLAY, REFERENCE AV DRAWINGS.
4. SIGNAGE FOR "EMERGENCY COMMUNICATE", AND "PUSH FOR HELP" TO BE LOCATED ON BACK OF DOOR, COORDINATE WITH ELECTRICAL. REFERENCE A-001 FOR SIGNAGE DETAILS.
5. SIGNAGE FOR "IN CASE OF FIRE USE STAIRS" TO BE LOCATED ON SIDE WALL. REFERENCE A-001 FOR SIGNAGE DETAILS.
6. SIGNAGE FOR "MAXIMUM OCCUPANCY" TO BE PROVIDED, REFERENCE A-001 FOR SIGNAGE DETAILS.
7. FURR-OUT WALL ON INTERIOR AT SPANDREL GLAZING, TYP. SEE SECTION A1/A-311 AND D1/A-311 FOR TYPICAL DETAIL INFORMATION.

A1 LEVEL 1 ANNOTATED FLOOR PLAN
1/8" = 1'-0"
TRUE NORTH

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
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www.dagarchitects.com

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LEVEL 1 ANNOTATION PLAN

A-111

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GENERAL NOTES

FLOOR PLAN

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE SHEET METAL REINFORCING BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT, AND WHERE INDICATED FOR FUTURE WALL MOUNTED ITEMS. COORDINATE WITH A/V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
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4. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
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6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. ALL DIMENSIONS ON THE DIMENSION PLANS ARE AS FOLLOWS, UNLESS NOTED OTHERWISE:
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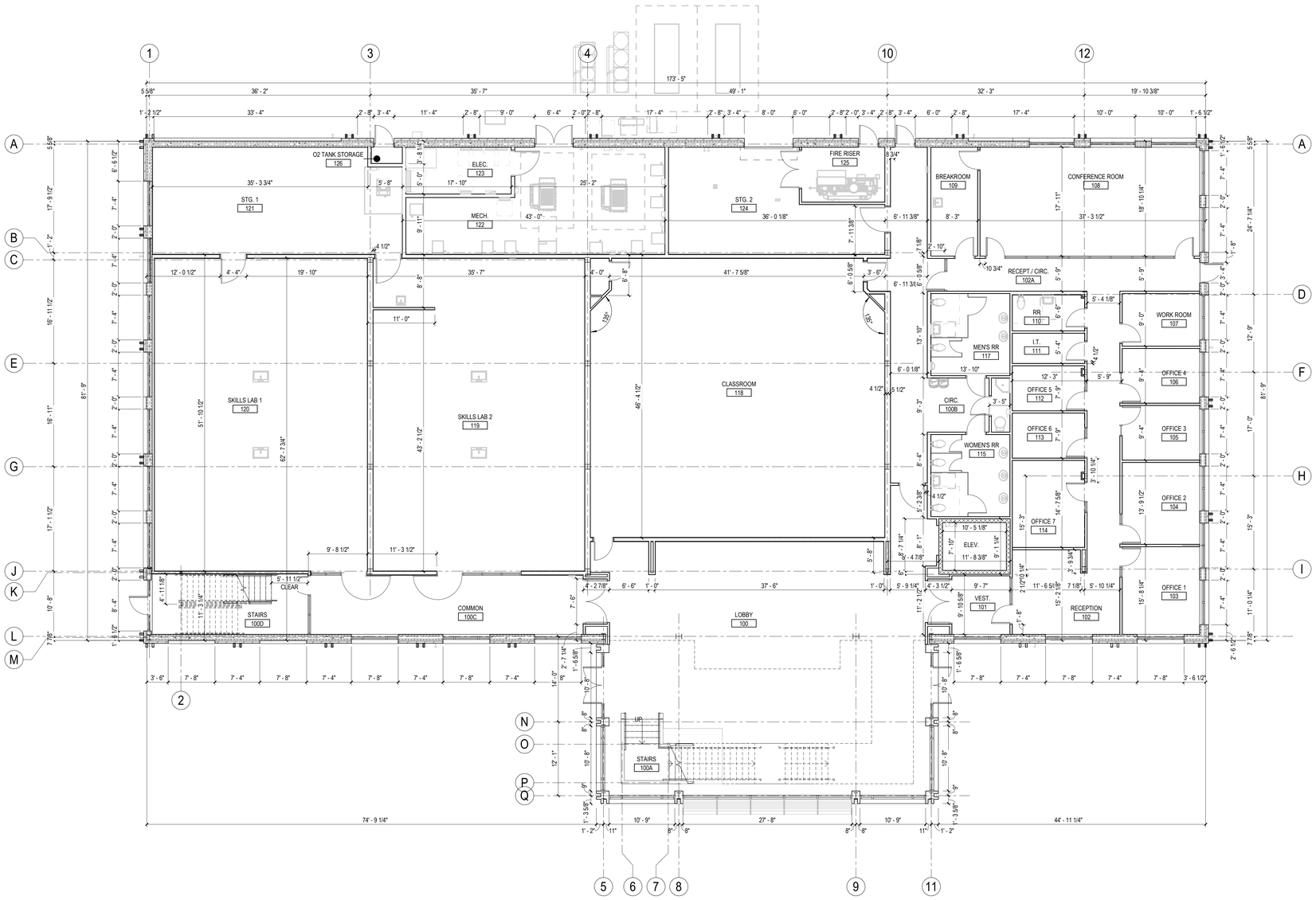
   - ALL DIMENSIONS TO BRICK ARE TO OUTSIDE FACE OF BRICK.
8. REFER TO A-400 SERIES SHEETS FOR ADDITIONAL INFORMATION, INCLUDING TOILET ROOM DIMENSIONS.
9. REFER TO LS-SERIES LIFE SAFETY SHEETS FOR FIRE RATED AND SMOKE PARTITION LOCATIONS.
10. REFER TO STRUCTURAL FOR BRACING TYPE AND LOCATIONS.
11. REFER TO PLUMBING FOR FIXTURE SCHEDULES.
12. CONTRACTOR SHALL PROVIDE ISOLATION BETWEEN DISSIMILAR METALS.
13. PROVIDE CONCRETE SPLASH BLOCKS / METAL SPLASH PANS AT ALL DOWNSPOUTS THAT DRAIN TO ROOFS OR GRADE, AND AT ALL CANOPY COLUMNS THAT DRAIN TO GRADE.



A1 LEVEL 1 DIMENSIONED FLOOR PLAN
1/8" = 1'-0"

TRUE NORTH

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455 Harrison Avenue
Suite I
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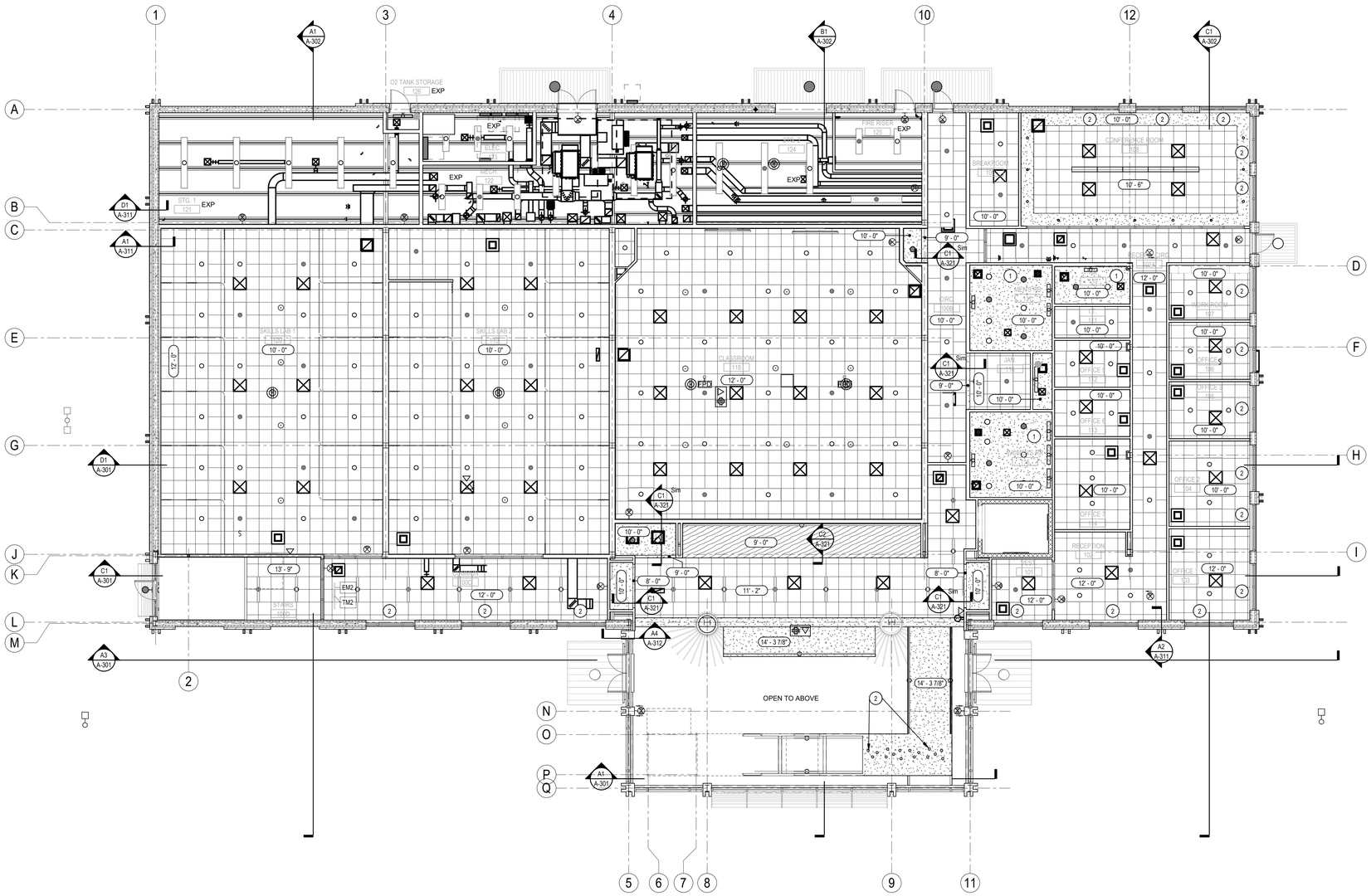
LEVEL 1
DIMENSION PLAN

A-112



GENERAL NOTES

REFLECTED CEILING

1. CONTRACTORS SHALL COORDINATE ALL WORK, SHOWN OR UN-SHOWN, WITH ALL OTHER DISCIPLINES.
2. CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND ALL CEILING MOUNTED EQUIPMENT.
3. REFER TO FINISH SCHEDULE(S) IN A-600 SERIES SHEETS FOR FINISHES AND ADDITIONAL INFORMATION.
4. ALL ACCESS PANEL SIZES AND LOCATIONS TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SPRINKLER WORK.
5. CENTER ACT GRID AND LIGHTS WITHIN EACH ROOM, UNO.
6. REFER TO ELECTRICAL FOR LIGHTING FIXTURE SCHEDULE(S).
7. ALL FIRE SPRINKLER HEADS AND ELECTRICAL FIXTURES SHALL BE CENTERED WITHIN CEILING TILES, UNO.
8. CEILING HEIGHTS NOTED REFERENCE ELEVATION ABOVE FINISH FLOOR OF ASSOCIATED BUILDING LEVEL.

LEGEND

REFLECTED CEILING

- LIGHT FIXTURES - SEE ELECTRICAL
- MECHANICAL DEVICES - SEE MECHANICAL
- CEILING - TYPE A
  2' x 2' ACOUSTICAL CEILING TILE 9'-0" AFF UNLESS NOTED OTHERWISE, SEE FINISH SCHEDULE
- CEILING - TYPE B
  GYPSUM BOARD CEILING 9'-0" AFF UNLESS NOTED OTHERWISE, PROVIDE MOISTURE RESISTANT @ ALL WET AREAS AND JANITOR'S CLOSET
- CEILING - TYPE C
  GYPSUM BOARD CEILING WITH FINISH PANEL SYSTEM, REFER TO INTERIORS DRAWINGS
- PREFINISHED METAL SOFFIT PANELS
- (S) SPEAKER SYSTEM, SEE FIRE ALARM
- EXIT LIGHT, SEE ELECTRICAL
- EXIT DIRECTIONAL EXIT LIGHT, SEE ELECTRICAL
- (M) MOTION DETECTOR, SEE ELECTRICAL
- CLG-1 CEILING TYPE
- 10'-0" CEILING HEIGHT AFF DESIGNATION
- EXP EXPOSED CEILING
- PM PROJECTOR MOUNT
- ACCESS PANEL
- (N) SECURITY CAMERA

SHEET NOTES

CEILING PLAN

1. PROVIDE CEILING MOUNTED ACCESS PANEL, COORDINATE WITH MECHANICAL AND ELECTRICAL FOR LOCATION.
2. MANUAL ROLLER SHADES AT EXTERIOR STOREFRONT, SEE INTERIORS.
3. MOTORIZED ROLLER SHADES AT EXTERIOR CURTAINWALL, SEE INTERIORS.
4. ARRAY OF CEILING HUNG PENDANT LIGHT FIXTURES, SEE INTERIORS.

A1 LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"

TRUE NORTH

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Project Number **25004**
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LEVEL 1
REFLECTED
CEILING PLAN

A-113

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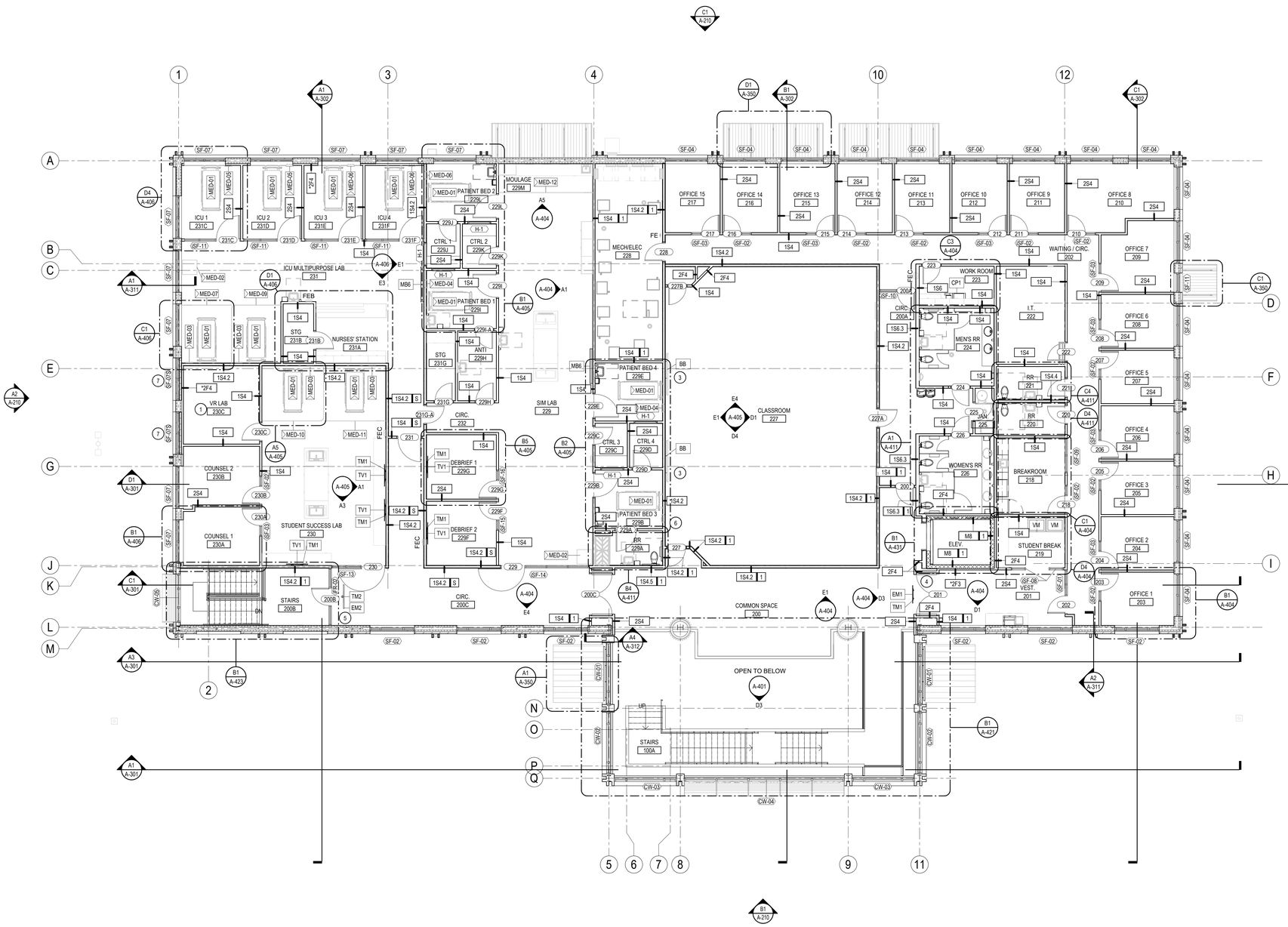

A1 LEVEL 2 ANNOTATED FLOOR PLAN
1/8" = 1'-0"

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LEGEND

FLOOR PLAN

- OFFICE 101 350 SF — ROOM IDENTIFIER - NAME, NUMBER, AREA
- 1W1X.1 — PARTITION TYPE IDENTIFIER - SEE WALL TYPES
- 100(A) — DOOR IDENTIFIER - SEE DOOR SCHEDULE
- # — WINDOW IDENTIFIER - SEE WINDOW TYPES AND ELEVATIONS
- SF# — STOREFRONT WINDOW IDENTIFIER - SEE STOREFRONT TYPES AND ELEVATIONS
- CW# — CURTAIN WALL IDENTIFIER - SEE CURTAIN WALL TYPES AND ELEVATIONS
- 0 — NEW COLUMN GRIDLINE
- SPOT ELEVATION MARKER
- EQ-1 — EQUIPMENT - CONTRACTOR-PROVIDED
- EQ-1 — EQUIPMENT - OWNER-PROVIDED
- MED-99 — MEDICAL EQUIPMENT - OWNER-PROVIDED
- 1 — SIGNAGE IDENTIFIER - SEE SIGN TYPES

SHEET NOTES

ANNOTATION PLAN

1. WALLS TO RECEIVE LEVEL 5 GYPSUM BOARD FINISH.
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REVISIONS

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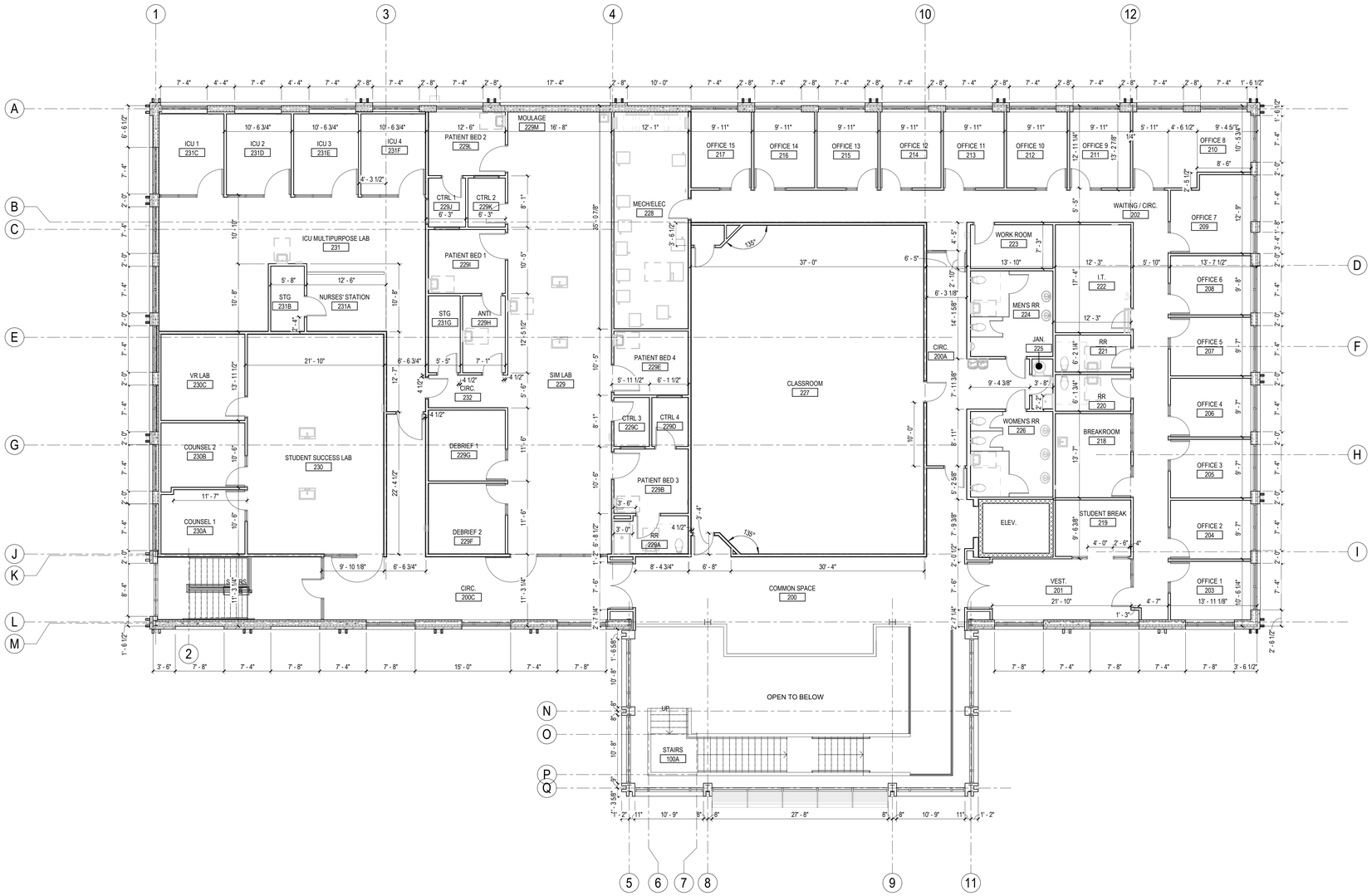
Dated 08.29.2025

LEVEL 2 ANNOTATION PLAN

A-121



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A1 LEVEL 2 DIMENSIONED FLOOR PLAN
1/8" = 1'-0"
TRUE NORTH

LEVEL 2
DIMENSION PLAN
A-122

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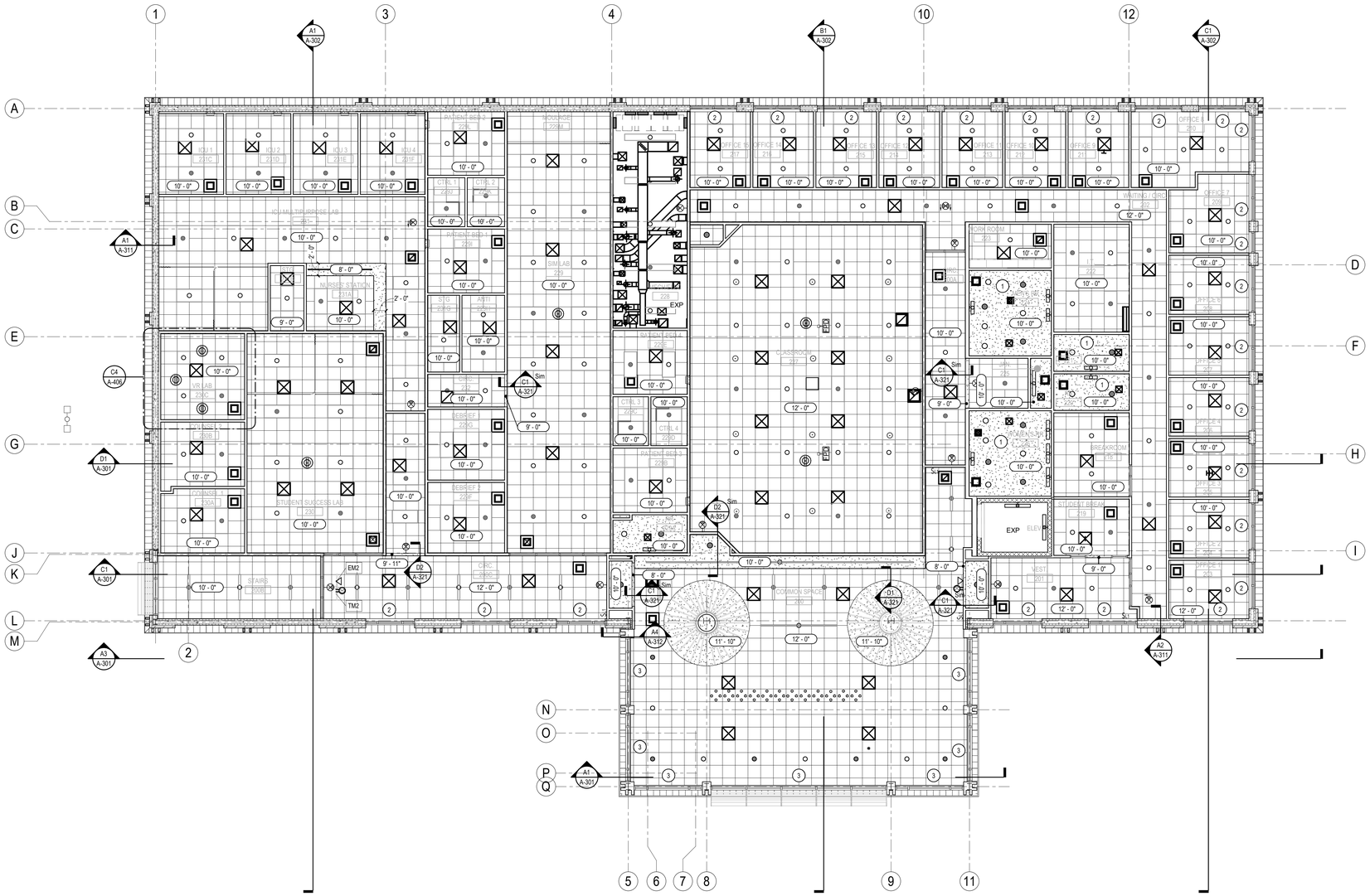

GENERAL NOTES

REFLECTED CEILING

1. CONTRACTORS SHALL COORDINATE ALL WORK, SHOWN OR UN-SHOWN, WITH ALL OTHER DISCIPLINES.
2. CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND ALL CEILING MOUNTED EQUIPMENT.
3. REFER TO FINISH SCHEDULE(S) IN A-600 SERIES SHEETS FOR FINISHES AND ADDITIONAL INFORMATION.
4. ALL ACCESS PANEL SIZES AND LOCATIONS TO BE COORDINATED WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SPRINKLER WORK.
5. CENTER ACT GRID AND LIGHTS WITHIN EACH ROOM, UNO.
6. REFER TO ELECTRICAL FOR LIGHTING FIXTURE SCHEDULE(S).
7. ALL FIRE SPRINKLER HEADS AND ELECTRICAL FIXTURES SHALL BE CENTERED WITHIN CEILING TILES, UNO.
8. CEILING HEIGHTS NOTED REFERENCE ELEVATION ABOVE FINISH FLOOR OF ASSOCIATED BUILDING LEVEL.

LEGEND

REFLECTED CEILING

- LIGHT FIXTURES - SEE ELECTRICAL
- MECHANICAL DEVICES - SEE MECHANICAL
- CEILING - TYPE A
  2' x 2' ACOUSTICAL CEILING TILE 9'-0" AFF UNLESS NOTED OTHERWISE, SEE FINISH SCHEDULE
- CEILING - TYPE B
  GYPSUM BOARD CEILING 9'-0" AFF UNLESS NOTED OTHERWISE, PROVIDE MOISTURE RESISTANT @ ALL WET AREAS AND JANITOR'S CLOSET
- CEILING - TYPE C
  GYPSUM BOARD CEILING WITH FINISH PANEL SYSTEM, REFER TO INTERIORS DRAWINGS
- PREFINISHED METAL SOFFIT PANELS
- (S) SPEAKER SYSTEM, SEE FIRE ALARM
- EXIT LIGHT, SEE ELECTRICAL
- EXIT DIRECTIONAL EXIT LIGHT, SEE ELECTRICAL
- (M) MOTION DETECTOR, SEE ELECTRICAL
- CLG-1 CEILING TYPE
- 10'-0" CEILING HEIGHT AFF DESIGNATION
- EXP EXPOSED CEILING
- PM PROJECTOR MOUNT
- ACCESS PANEL
- (N) SECURITY CAMERA

SHEET NOTES

CEILING PLAN

1. PROVIDE CEILING MOUNTED ACCESS PANEL, COORDINATE WITH MECHANICAL AND ELECTRICAL FOR LOCATION.
2. MANUAL ROLLER SHADES AT EXTERIOR STOREFRONT, SEE INTERIORS.
3. MOTORIZED ROLLER SHADES AT EXTERIOR CURTAINWALL, SEE INTERIORS.
4. ARRAY OF CEILING HUNG PENDANT LIGHT FIXTURES, SEE INTERIORS.

A1 LEVEL 2 REFLECTED CEILING PLAN
1/8" = 1'-0"

TRUE NORTH

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AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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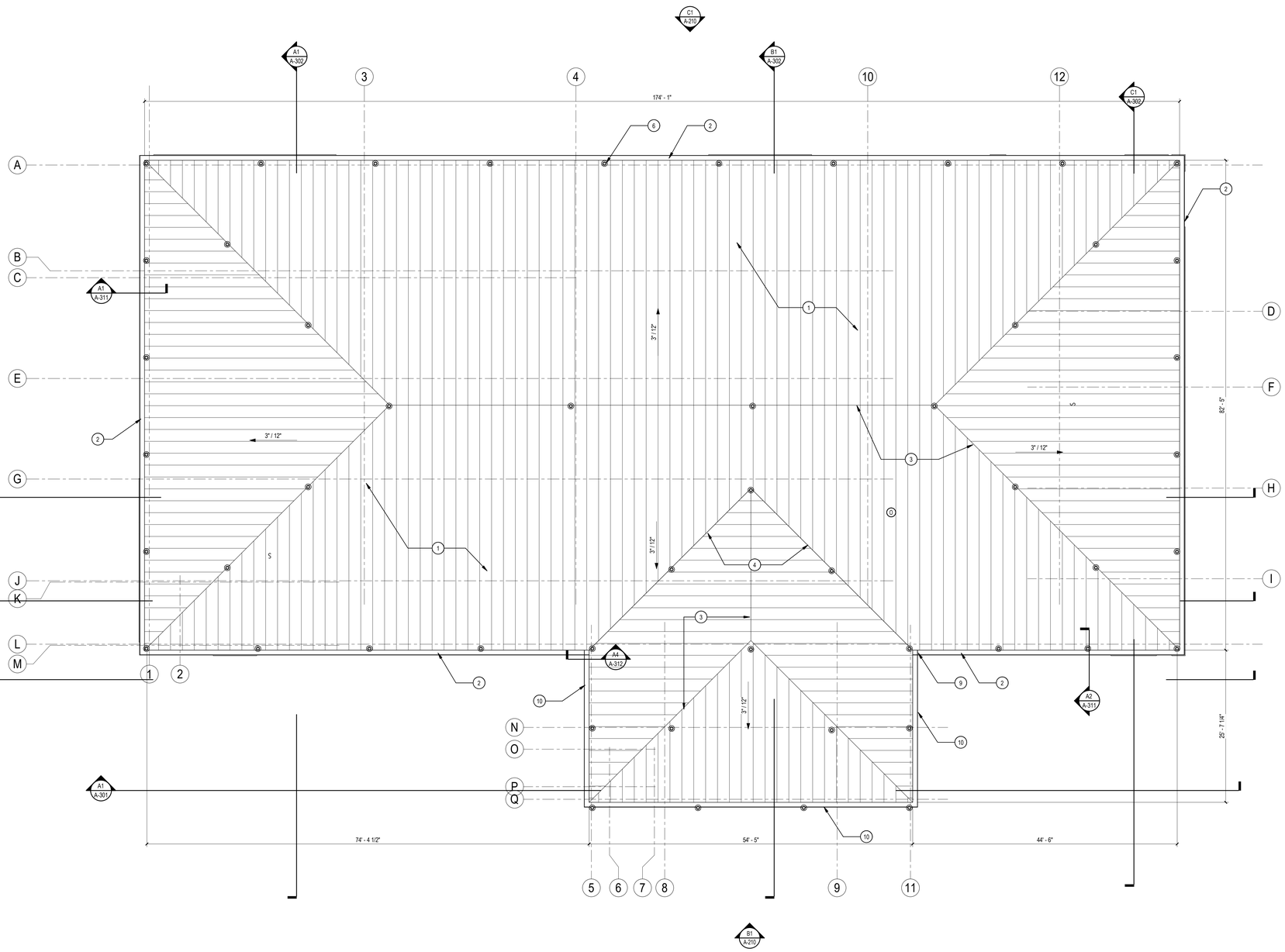
Dated 08.29.2025

LEVEL 2
REFLECTED
CEILING PLAN

A-123



GENERAL NOTES

ROOF PLAN

1. SEE REVIEWED FINAL SHOP DRAWINGS FOR ALL FLASHING AND WATERPROOFING CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.
2. ROOF SYSTEM DIMENSIONS, SHAPES, AND MEMBERS ARE FOR DESIGN INTENT ONLY. SEE REVIEWED FINAL ROOF SHOP DRAWINGS FOR SPECIFIC INFORMATION AND COORDINATION.
3. GENERAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
4. SEE OTHER DISCIPLINES FOR ROOF PENETRATIONS NOT SHOWN.
5. REFER TO PLUMBING FOR VTRS , FLASH PER ROOFING MFR. RECOMMENDED DETAILS

LEGEND

- PREFINISHED STANDING SEAM METAL ROOF SYSTEM, OVER SELF-ADHERING UNDERLAYMENT, OVER 1/2" ROOF PROTECTION BOARD, OVER STEEL ROOF DECK
- MECHANICAL EQUIPMENT, SEE MECHANICAL
- ROOF CURB
- EXHAUST FAN, SEE MECHANICAL

SHEET NOTES

ROOF PLAN

1. PRE-FINISHED ALUMINUM STANDING SEAM METAL ROOFING SYSTEM
2. PRE-FINISHED ALUMINUM GUTTER, 10" X 10" SEE DETAILS. SEE ANNOTATION PLAN FOR DOWNPOUT LOCATIONS. ALL DOWNSPOUTS TO HAVE CAST IRON BOOT AND TIE INTO UNDER DRAIN SYSTEM, TYP.
3. ROOF RIDGE
4. ROOF VALLEY
5. ALUMINUM, WALL MOUNTED CANOPY, SEE DETAILS AND SPECIFICATIONS
6. LIGHTNING PROTECTION AIR TERMINAL, SEE ELECTRICAL
7. VENT PIPE THROUGH ROOF (VTR) OR INTAKE, FLASH/INSTALL IN ACCORDANCE WITH ROOFING MANUFACTURER'S STANDARD DETAILS, SEE PLUMBING FOR SIZES AND LOCATIONS
8. FLUE PIPE THROUGH ROOF FLASH/INSTALL IN ACCORDANCE WITH ROOFING MANUFACTURER'S STANDARD DETAILS, SEE MECHANICAL/PLUMBING FOR SIZES AND LOCATIONS
9. PROVIDE GUTTER BAFFLE/SPLASH GUARD FLASHING AT VALLEY, TYP.
10. PRE-FINISHED ALUMINUM GUTTER, 11" W X 10"H SEE DETAILS. SEE ANNOTATION PLAN FOR DOWNPOUT LOCATIONS. ALL DOWNSPOUTS TO HAVE CAST IRON BOOT AND TIE INTO UNDER DRAIN SYSTEM, TYP.

GUTTER CALCULATIONS

BASED ON FBC PLUMBING CODE CH. 11
SECTION 1106

LENGTH OF GUTTER MAX: 40'
AREA OF ROOF: 15,350 SF+/-
GPM = RAIN FALL INTENSITY X AREA X CONVERSION FACTOR
718.38 GPM= 4.5 X 15,350 X 0.0104

SMALLEST GUTTER DEPTH/WIDTH PROVIDED: 10" X 10" = 472 GPM
CAPACITY

DOWNSPOUT CAPACITY: 37 PROVIDED- 5X5 @ 260 GPM EACH= 9,620 GPM

GUTTERS AND DOWNSPOUTS EXCEED CAPACITY REQUIRED

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455 Harrison Avenue
Suite I
Panama City, Florida 32401
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www.dagarchitects.com

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ROOF PLAN

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A1 ROOF PLAN
1/8" = 1'-0"

TRUE NORTH

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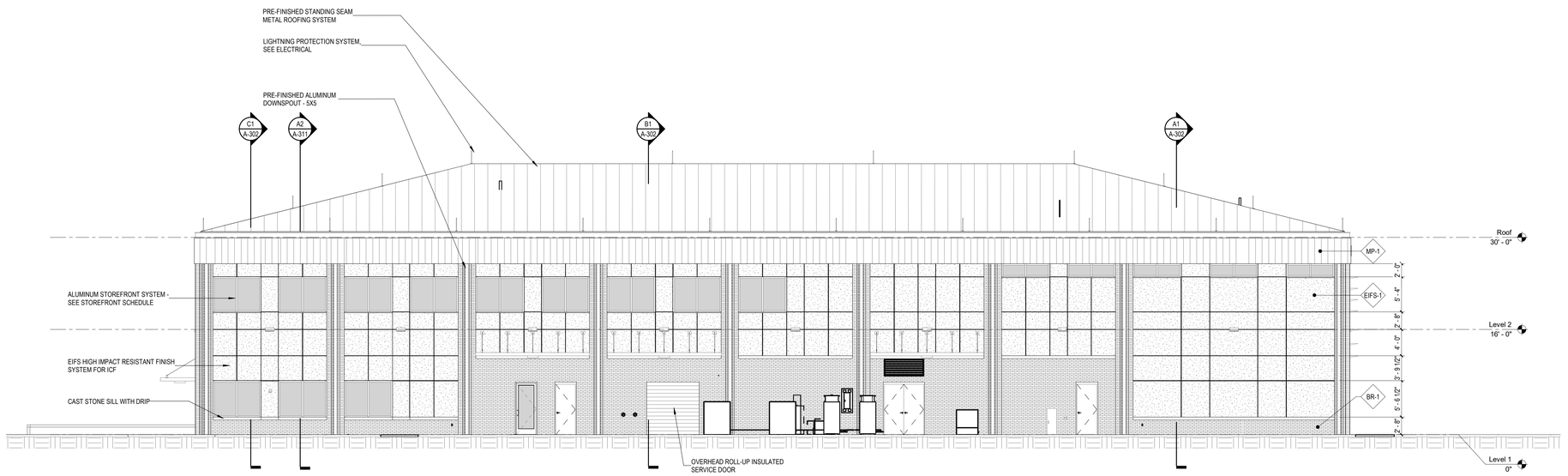
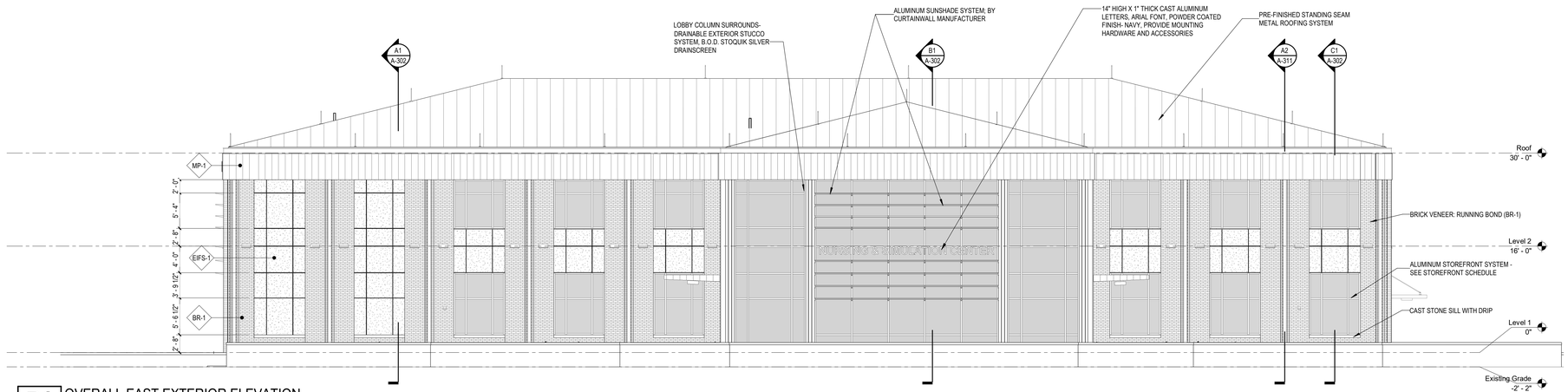
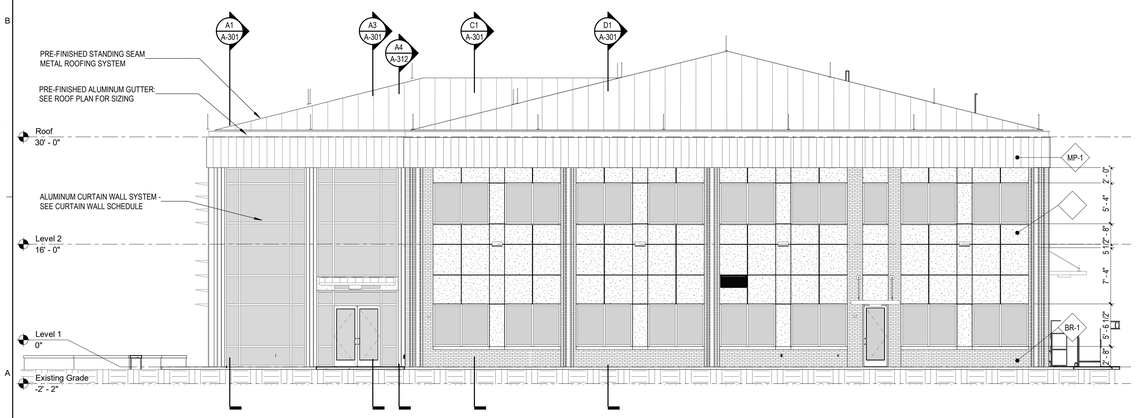


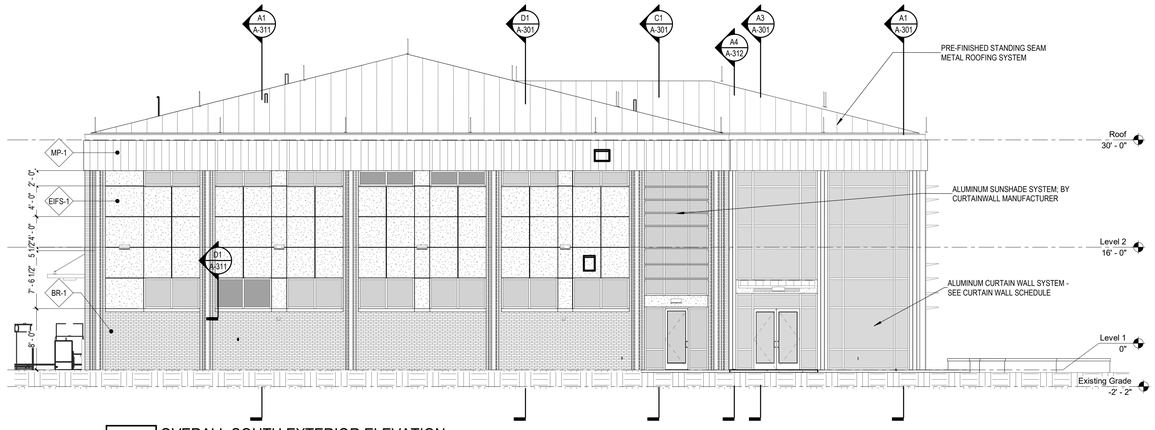
C1 OVERALL WEST EXTERIOR ELEVATION
1/8" = 1'-0"



B1 OVERALL EAST EXTERIOR ELEVATION
1/8" = 1'-0"



A1 OVERALL NORTH EXTERIOR ELEVATION
1/8" = 1'-0"



A2 OVERALL SOUTH EXTERIOR ELEVATION
1/8" = 1'-0"

GENERAL NOTES

BUILDING ELEVATION

1. CONTRACTOR SHALL PROVIDE THE ARCHITECT / OWNER SAMPLES OF ALL EXTERIOR FINISHES FOR APPROVAL.
2. SEE REVIEWED FINAL SHOP DRAWINGS FOR ALL FLASHING AND WATERPROOFING CONDITIONS AT THE BUILDING ENVELOPE PRIOR TO FABRICATION AND INSTALLATION.
3. SEE STRUCTURE FOR DESIGN PRESSURES REQUIRED FOR EXTERIOR CLADDING COMPONENTS.
4. ROOF SYSTEM DIMENSIONS, SHAPES, AND MEMBERS ARE FOR DESIGN INTENT ONLY. SEE REVIEWED FINAL ROOF SHOP DRAWINGS FOR SPECIFIC INFORMATION AND COORDINATION.
5. REFER TO A-600 SERIES SHEETS FOR DOOR AND WINDOW SCHEDULES AND ADDITIONAL INFORMATION.
6. GENERAL CONTRACTOR SHALL COORDINATE ALL SYSTEMS PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
7. ITEMS NOTED ARE TYPICAL EXAMPLES, EVERY INSTANCE MAY NOT BE NOTED OR TAGGED.
8. SEE ELECTRICAL FOR EXTERIOR LIGHTING FIXTURE AND DEVICE SCHEDULE(S).
9. SEE TELECOM FOR CAMERA, CARD READER, ETC. SCHEDULE(S).
10. DIMENSIONS SHOWN ARE REFERENCED TO FACE OF EXTERIOR FINISHES.
11. LANDSCAPE NOT SHOWN, REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
12. AT EIFS - DIMENSIONS ARE TO FACE OF RIGID FOAM INSULATION TYP.

GRAPHIC LEGEND

- PREFINISHED STANDING SEAM METAL ROOF SYSTEM
- EIFS-1 EIFS/STUCCO FINISH SYSTEM - SEE SECTIONS FOR LOCATIONS STO WHITE
- BR-1 BRICK VENEER CHEROKEE BRICK CHEROKEE ROSE
- MP-1 METAL PANEL PACCLAD

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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EXTERIOR ELEVATIONS

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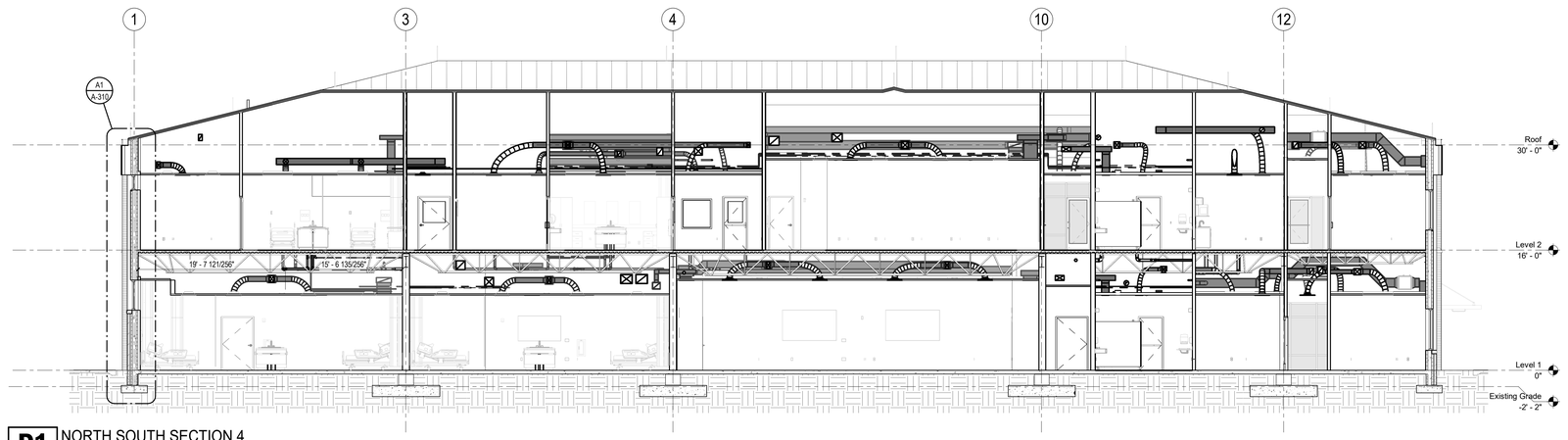
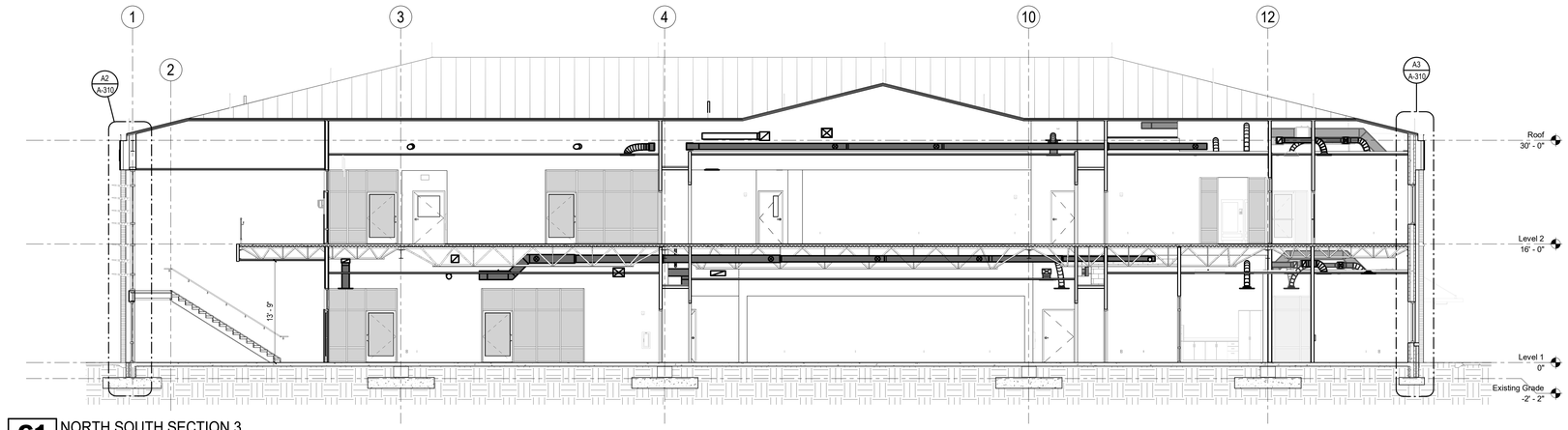
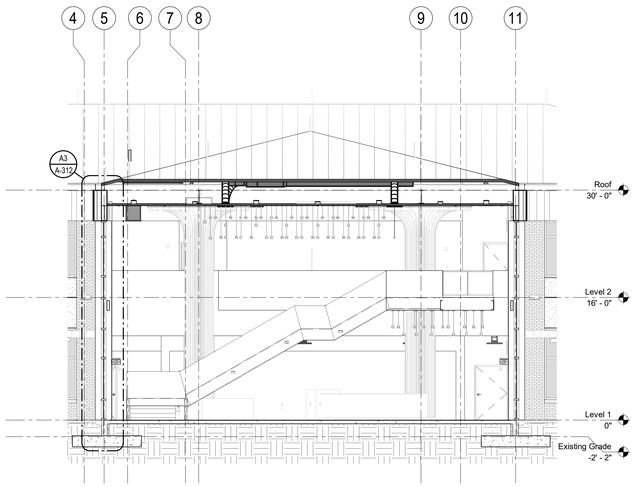


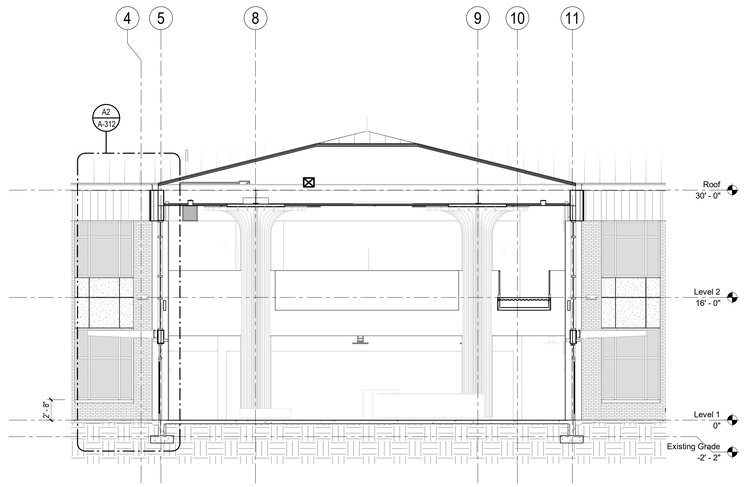
D1 NORTH SOUTH SECTION 4
1/8" = 1'-0"



C1 NORTH SOUTH SECTION 3
1/8" = 1'-0"



A1 NORTH SOUTH SECTION 1
1/8" = 1'-0"



A3 NORTH SOUTH SECTION 2
1/8" = 1'-0"

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Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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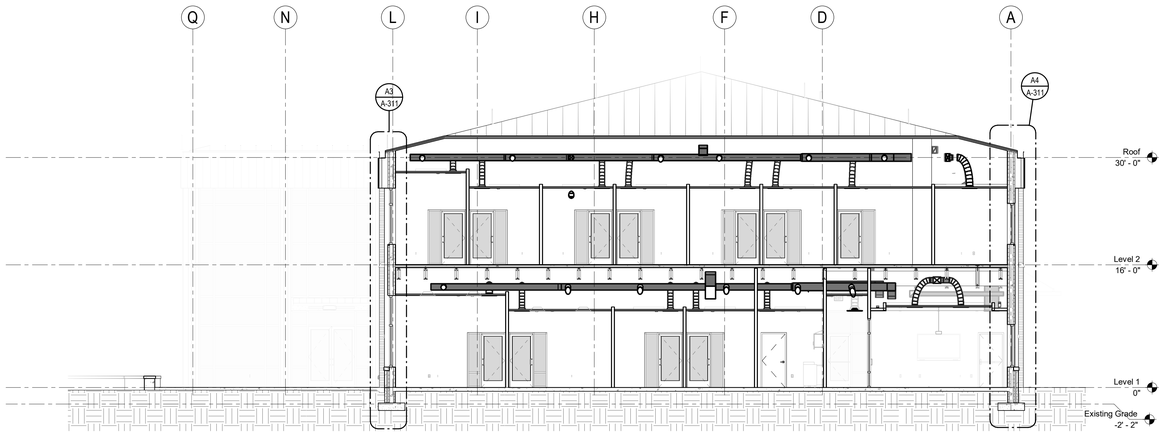
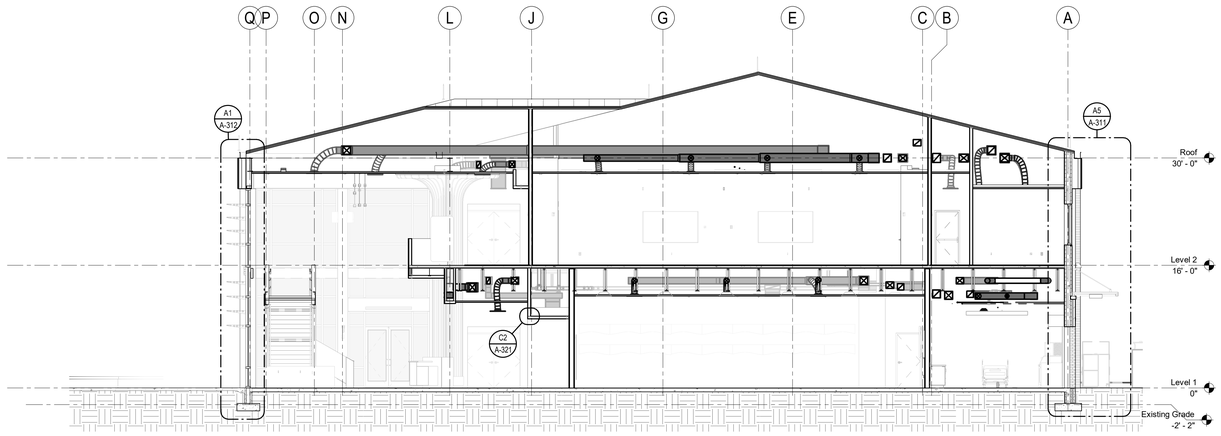
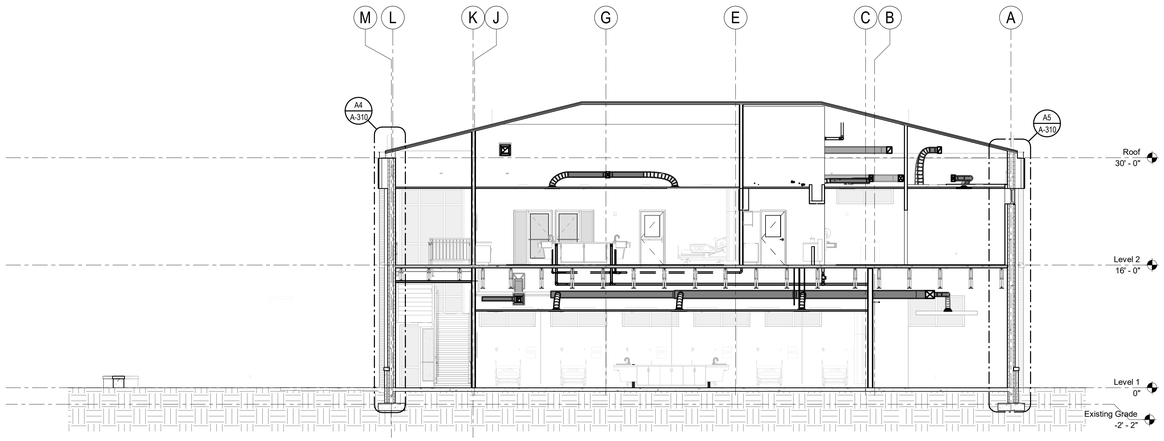
BUILDING SECTIONS
A-301



C1 CROSS SECTION 3
1/8" = 1'-0"



B1 CROSS SECTION 2
1/8" = 1'-0"



A1 CROSS SECTION 1
1/8" = 1'-0"

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850.387.1671
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BUILDING SECTIONS

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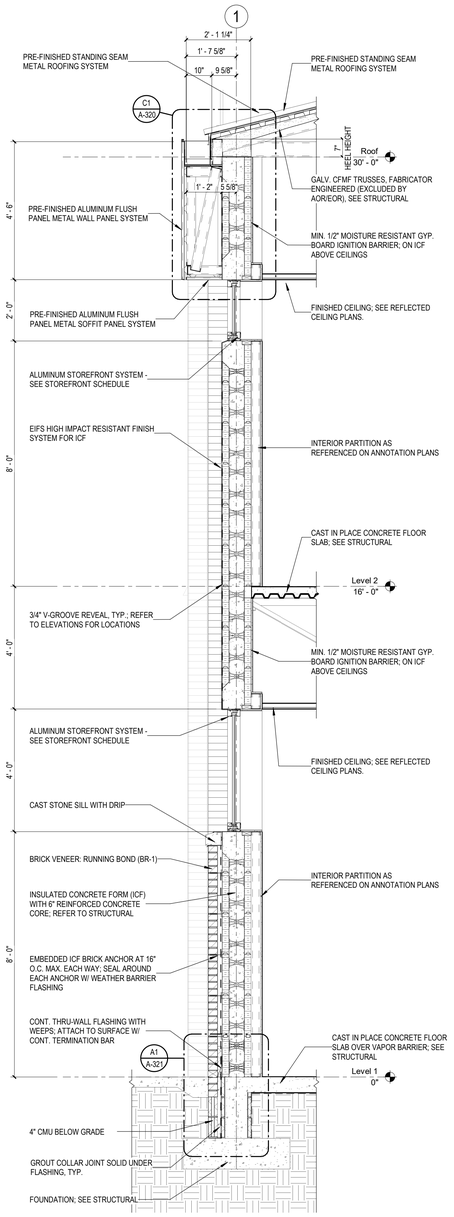

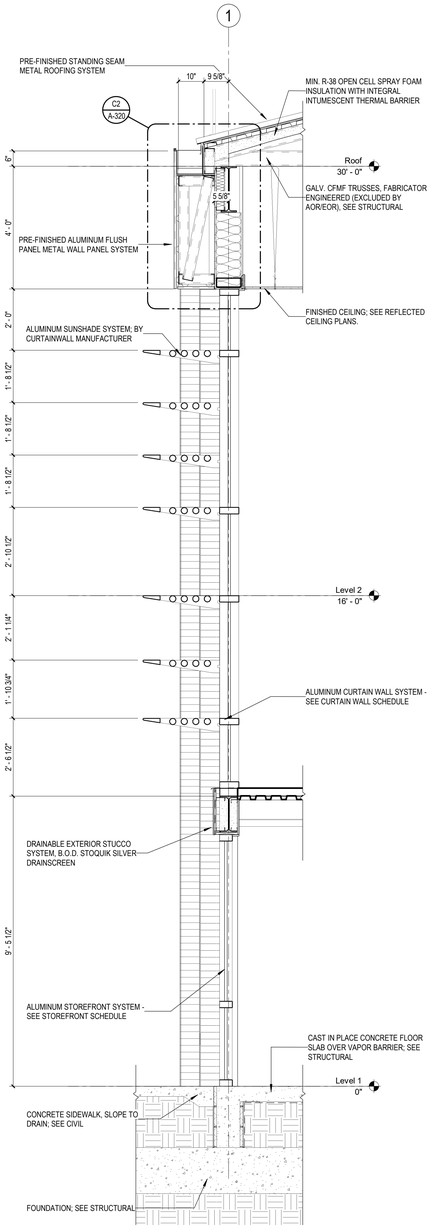

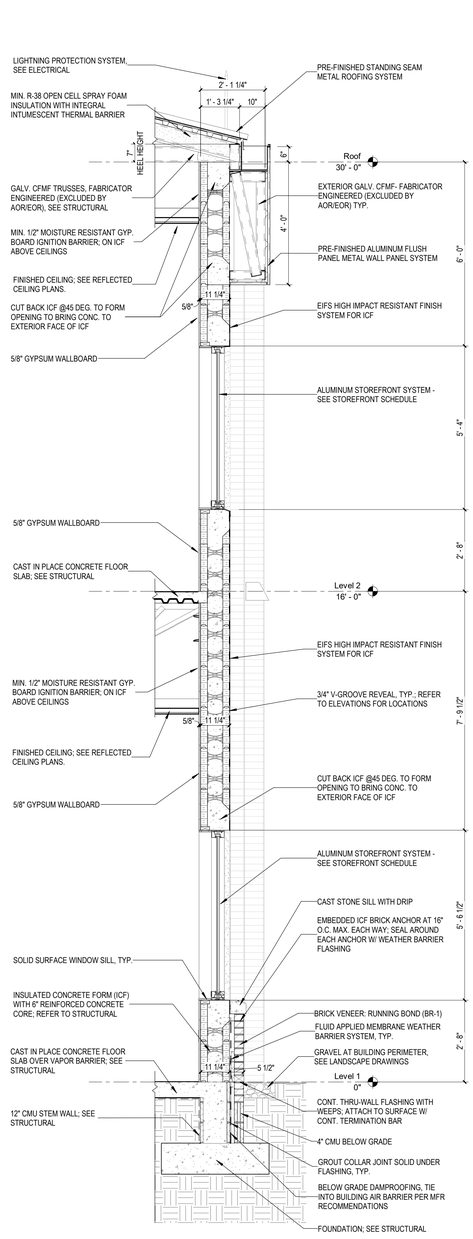

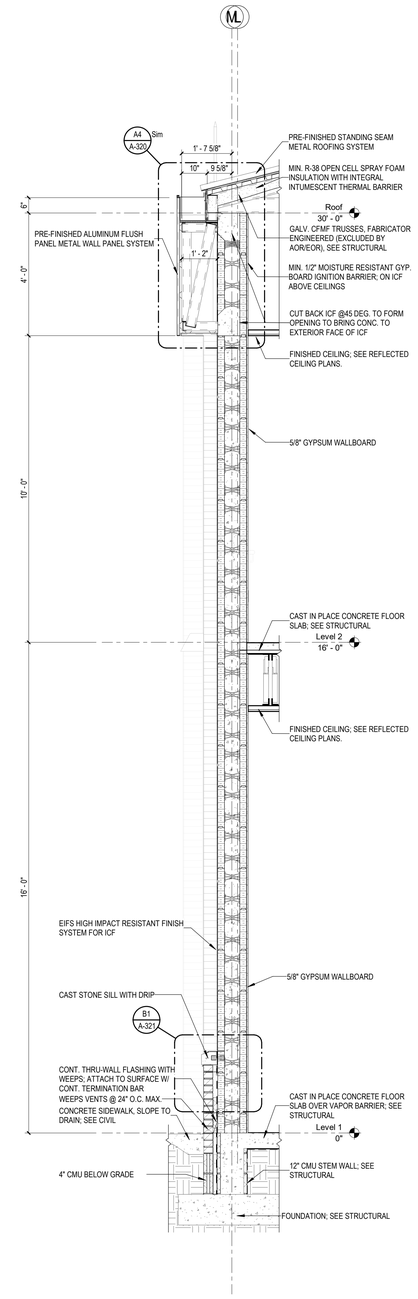

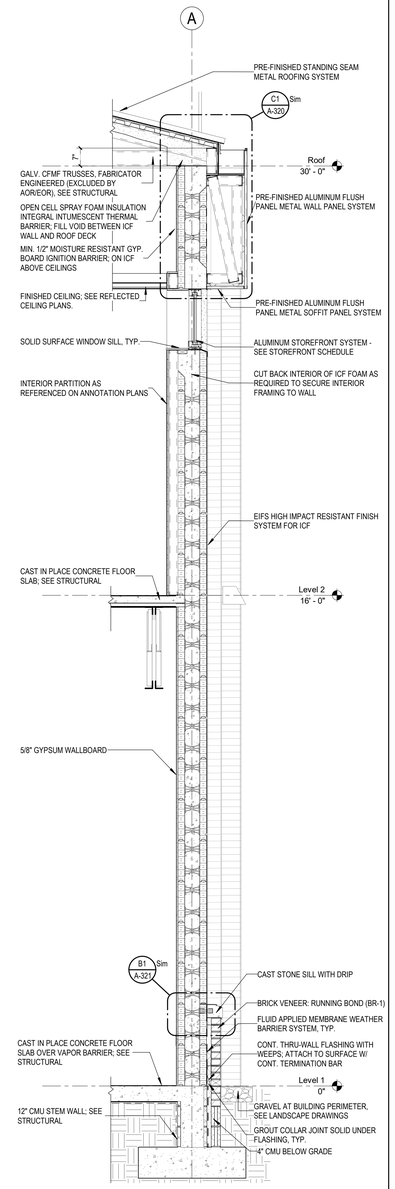

A1 SOUTH WALL SECTION
1/2" = 1'-0"

A2 SOUTH WALL SECTION AT STAIR
1/2" = 1'-0"

A3 NORTH WALL SECTION AT WINDOWS
1/2" = 1'-0"

A4 EAST WALL SECTION AT STAIRWELL
1/2" = 1'-0"

A5 WEST WALL SECTION AT HIGH WINDOW
1/2" = 1'-0"

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AR0017640
455 Harrison Avenue
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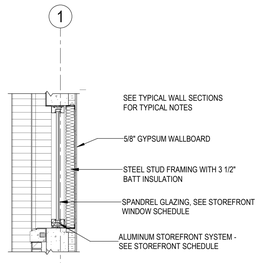
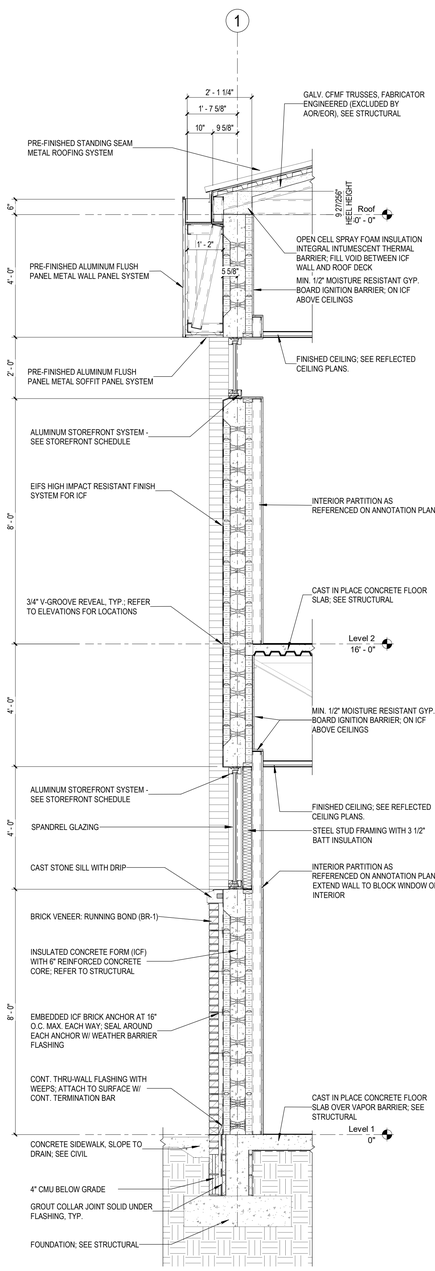
WALL SECTIONS

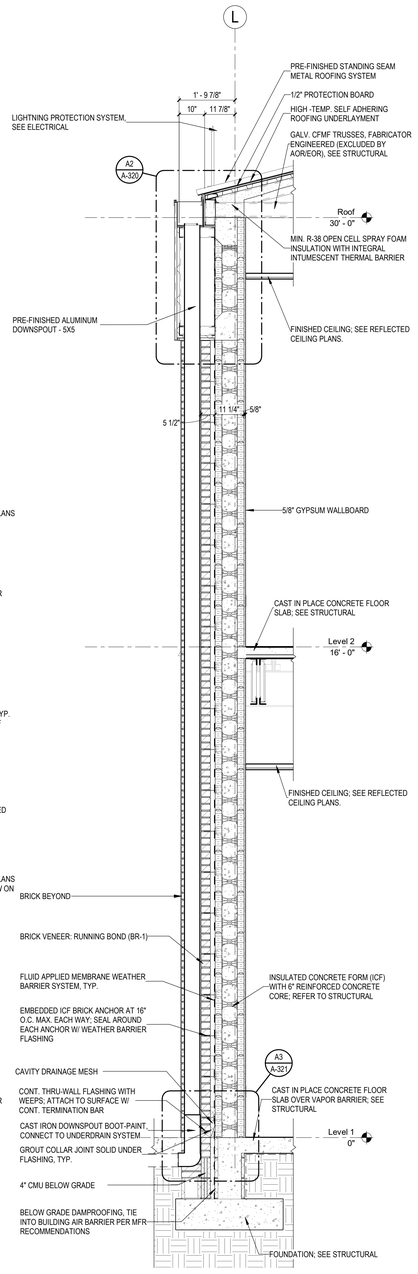
A-310



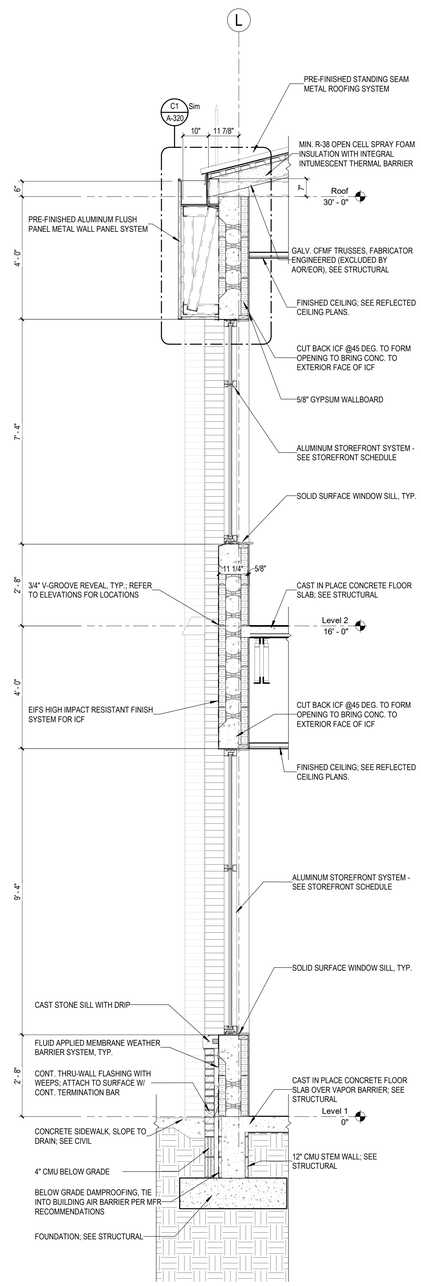
D1 SECTION AT SPANDREL GLAZING
1/2" = 1'-0"



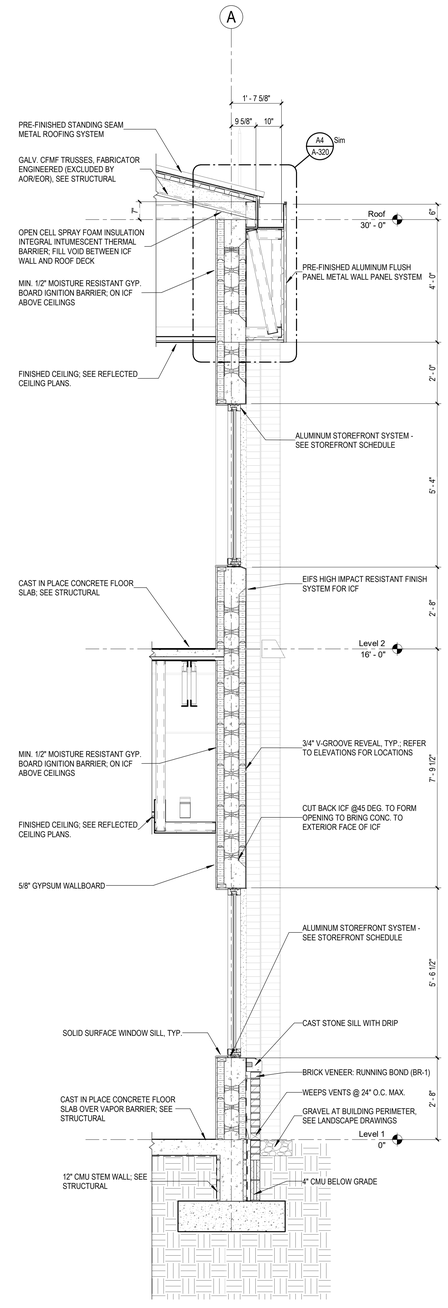
A1 TYP. SECTION AT SPANDREL GLAZING
1/2" = 1'-0"



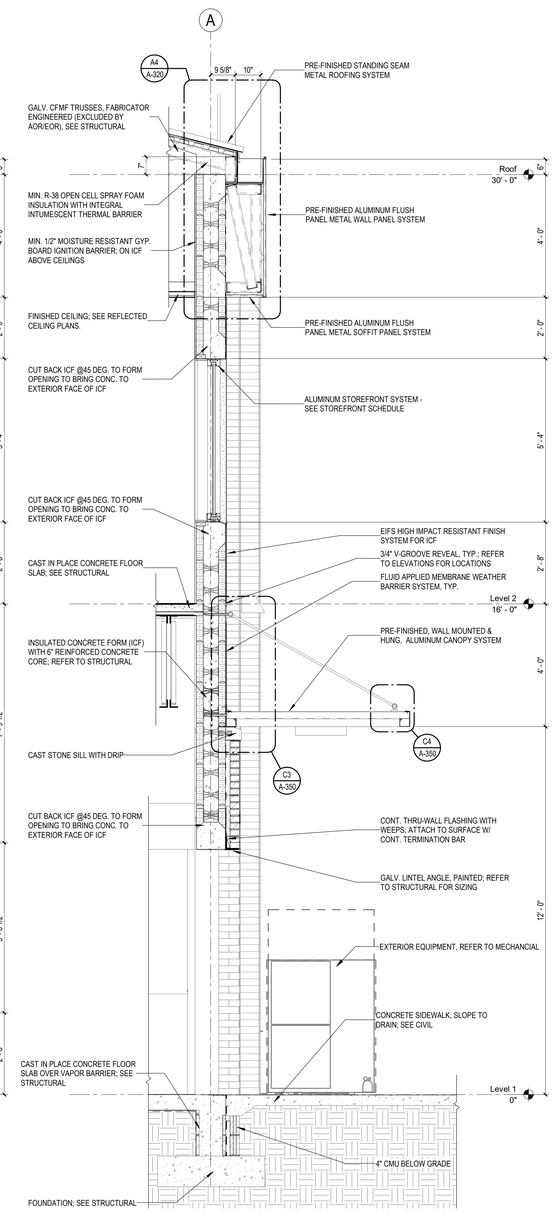
A2 EAST SECTION AT DOWNSPOUT
1/2" = 1'-0"



A3 EAST SECTION AT WINDOWS
1/2" = 1'-0"



A4 WEST WALL SECTION AT WINDOWS
1/2" = 1'-0"



A5 WEST WALL SECTION
1/2" = 1'-0"

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AR0017640
455 Harrison Avenue
Suite I
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WALL SECTIONS
A-311

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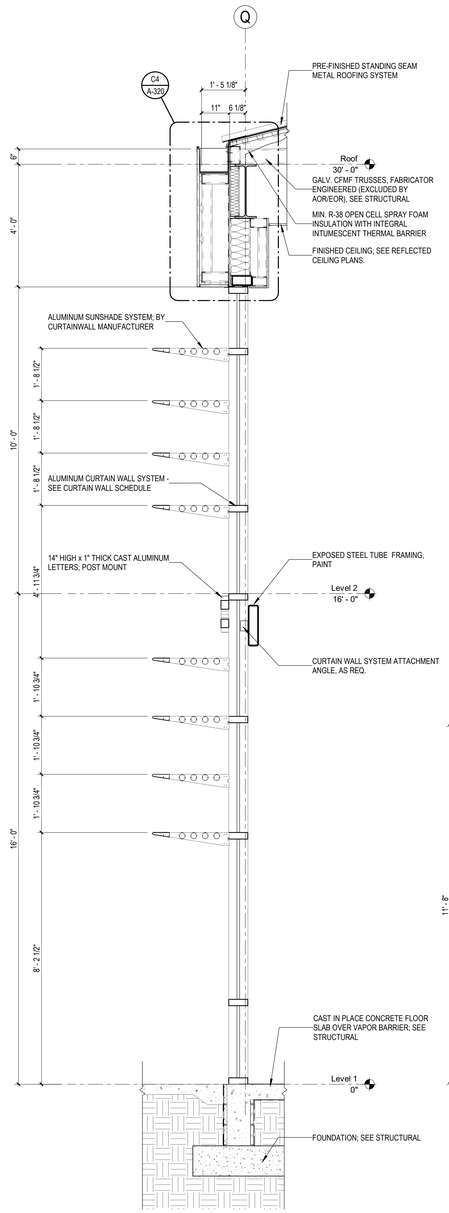

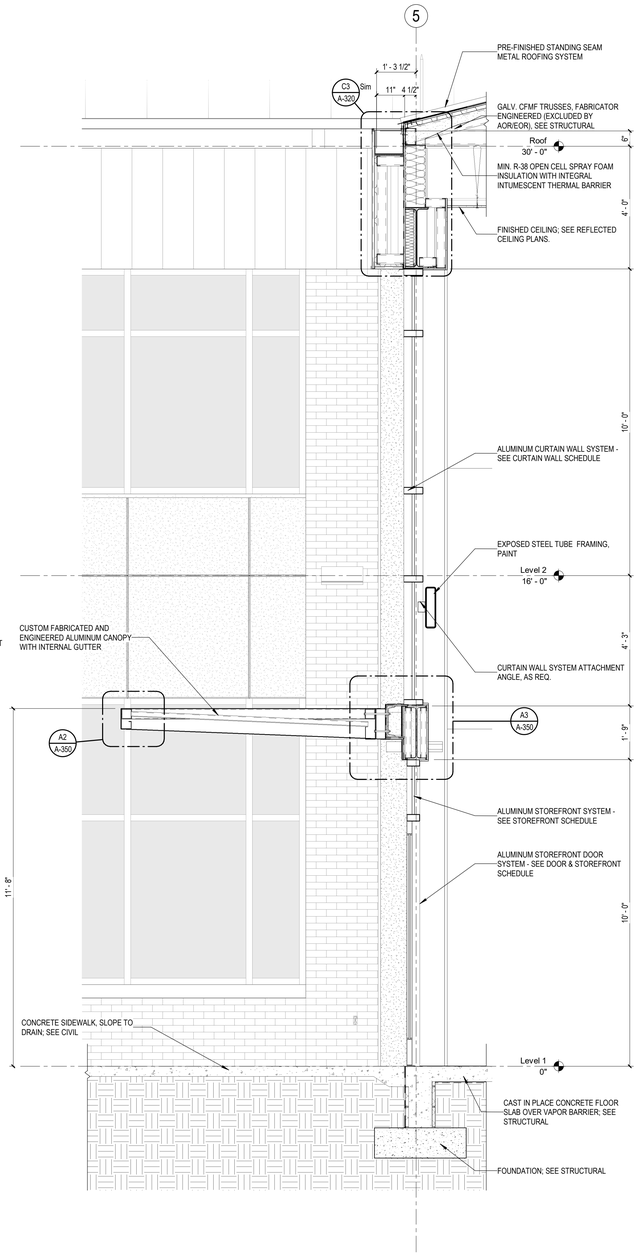

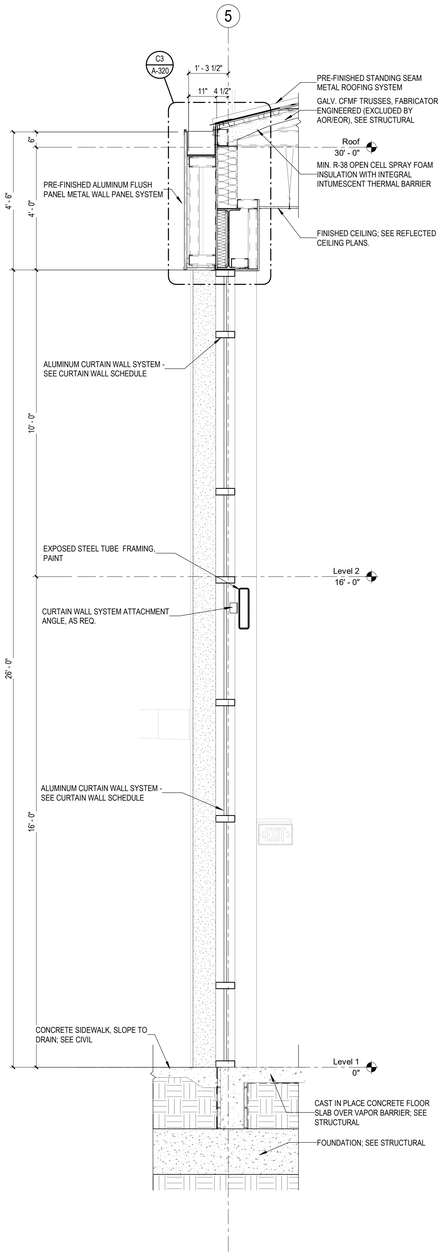

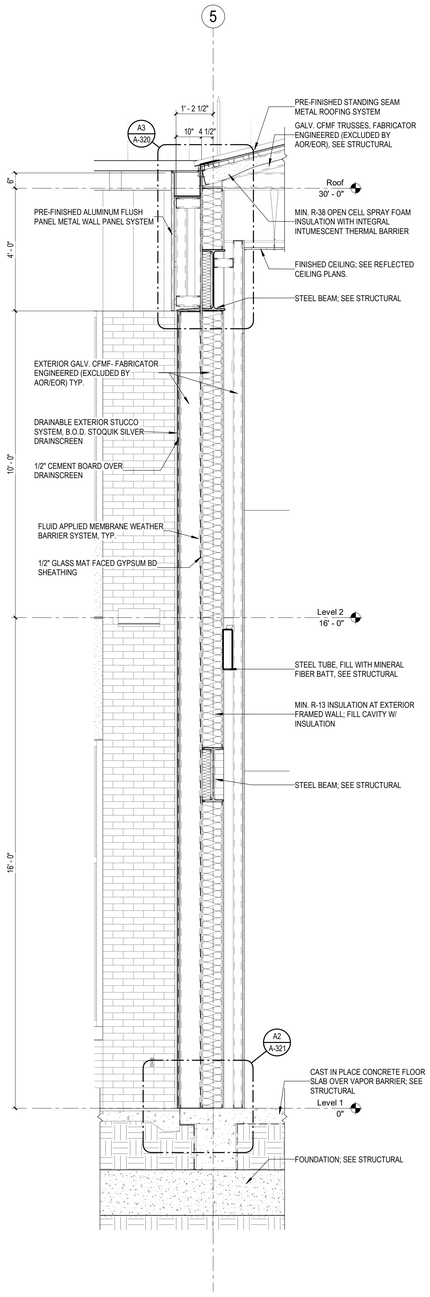

A1 EAST WALL SECTION LOBBY
1/2" = 1'-0"

A2 SOUTH WALL SECTION AT ENTRANCE
1/2" = 1'-0"

A3 SOUTH WALL SECTION AT LOBBY
1/2" = 1'-0"

A4 SECTION AT COLUMN
1/2" = 1'-0"

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

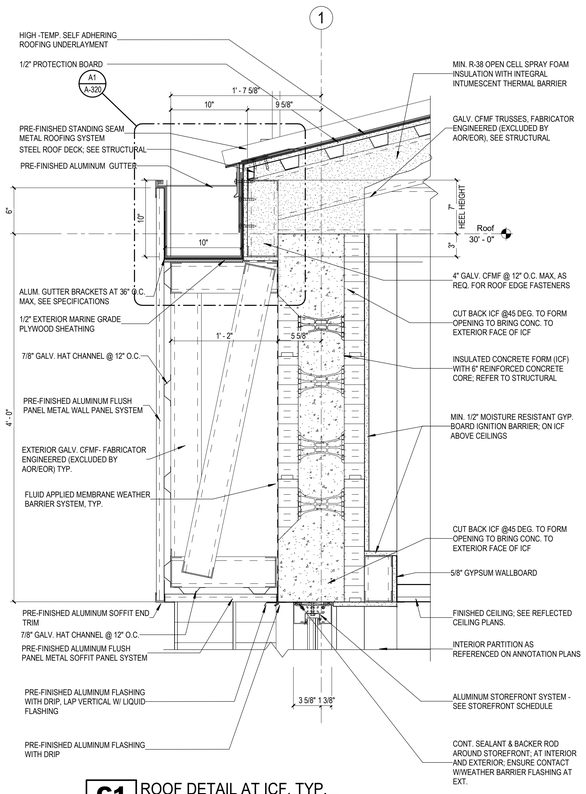
REVISIONS

NO.	DESCRIPTION	DATE

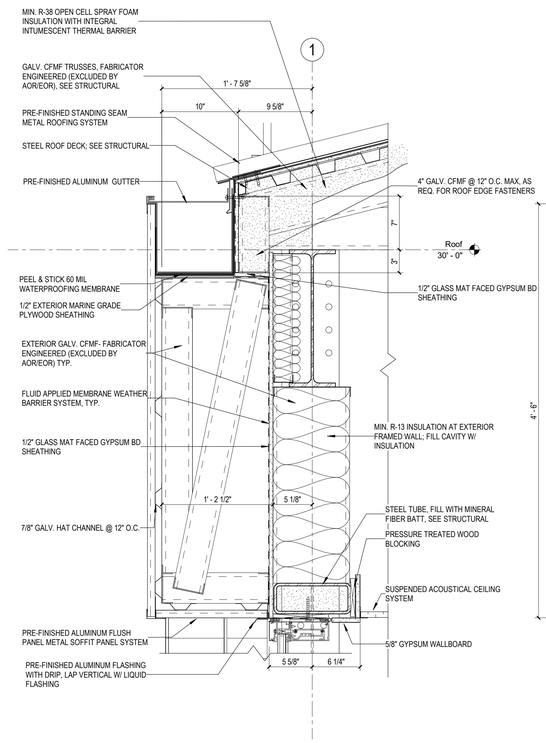
Project Number	**25004**
Dated	08.29.2025

WALL SECTIONS

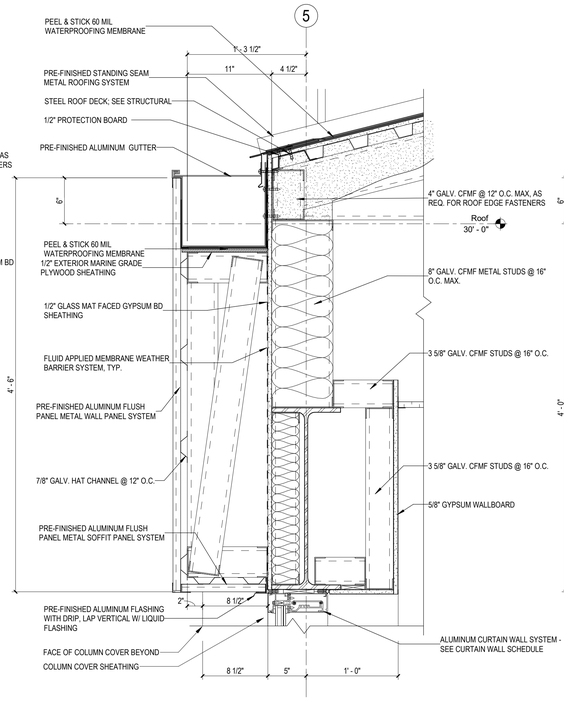
A-312



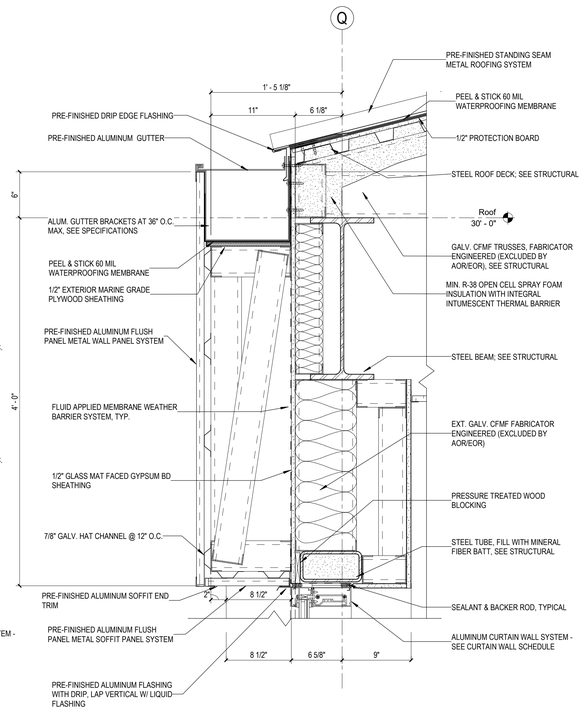
C1 ROOF DETAIL AT ICF, TYP.
1 1/2" = 1'-0"



C2 ROOF DETAIL AT STAIRWELL
1 1/2" = 1'-0"

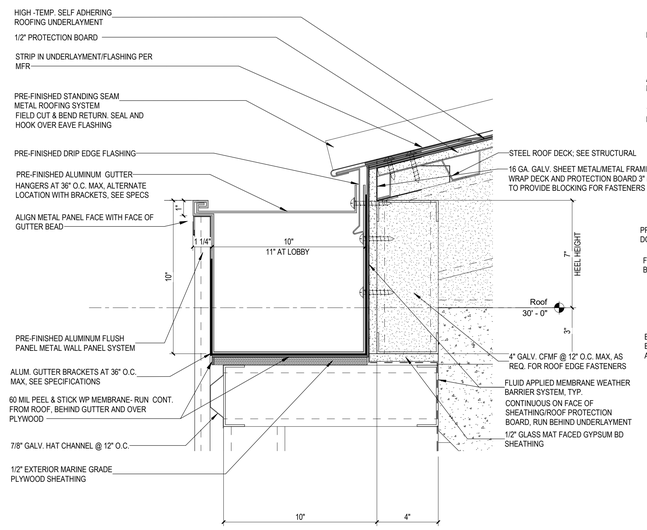


C3 ROOF DETAIL AT LOBBY, NORTH-SOUTH
1 1/2" = 1'-0"

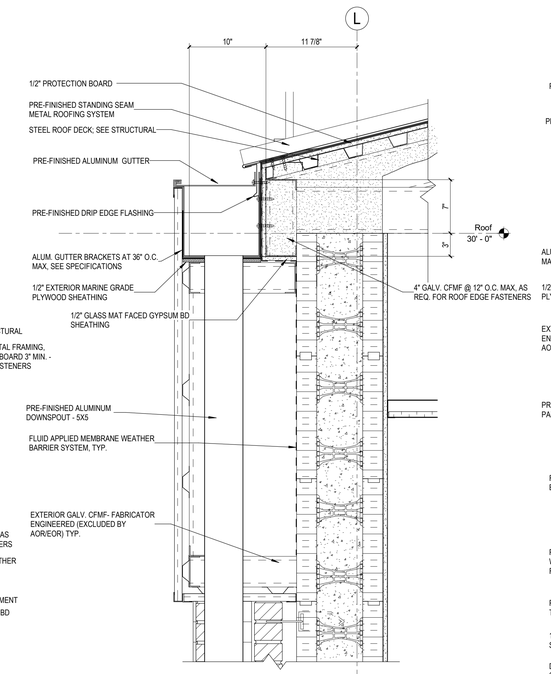


C4 ROOF DETAIL AT LOBBY, EAST-WEST
1 1/2" = 1'-0"

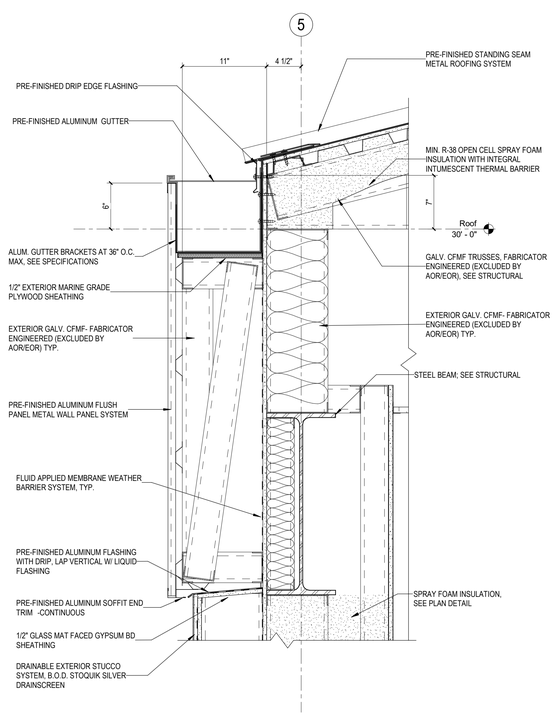
NOTE: ROOFING SHALL BE INSTALLED AND FASTENED PER FLORIDA PRODUCT APPROVAL INSTALLATON REQUIREMENTS AND ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS AND RECOMMENDED DETAILS



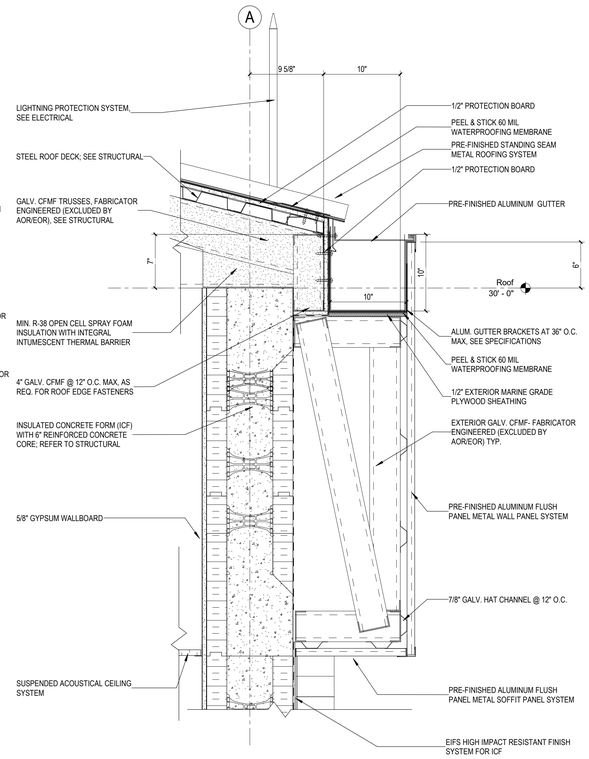
A1 GUTTER DETAIL
3" = 1'-0"



A2 ROOF DETAIL AT DOWNSPOUT
1 1/2" = 1'-0"



A3 ROOF DETAIL AT LOBBY COLUMN
1 1/2" = 1'-0"



A4 TYP. ROOF DETAIL AT EIFS
1 1/2" = 1'-0"

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DAG Architects
AR0017640
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BID DOCUMENTS

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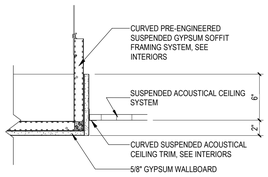
GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

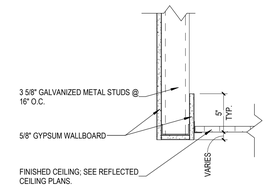
REVISIONS
NO. DESCRIPTION DATE

Project Number 25004
Dated 08.29.2025

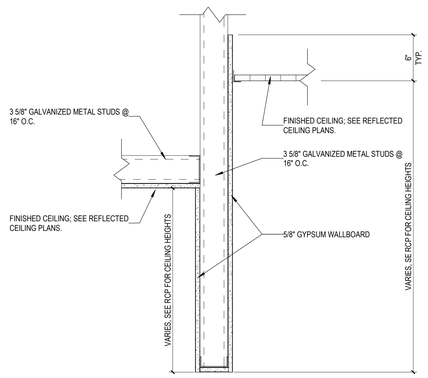
DETAILS
A-320



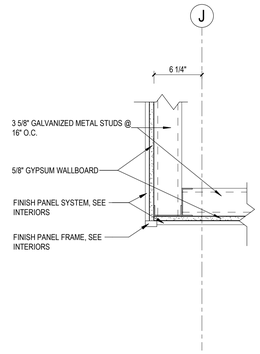
D1 SOFFIT DETAIL AT LOBBY TREE
1 1/2" = 1'-0"



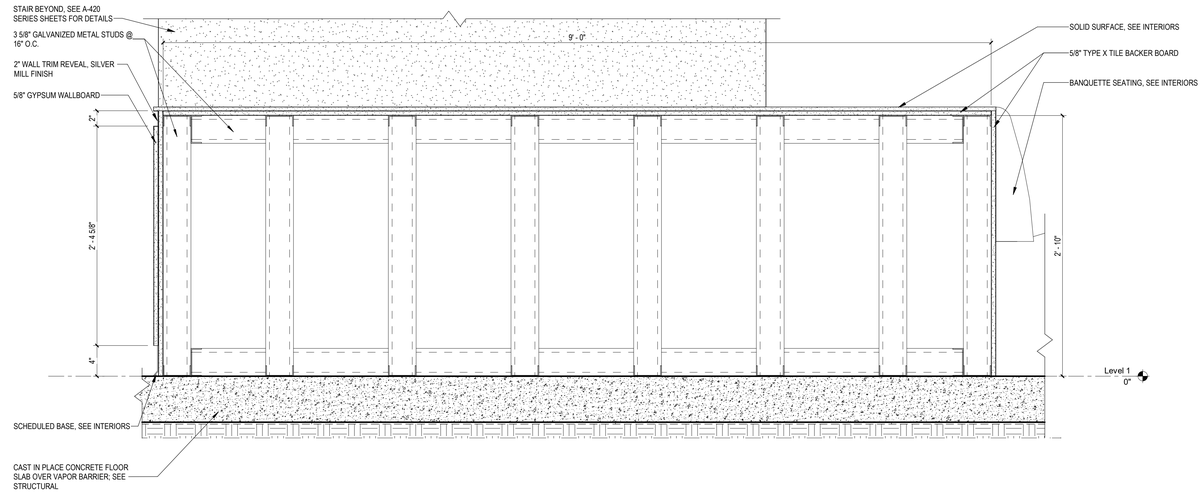
D2 TYP. SOFFIT DETAIL AT CEILING
1 1/2" = 1'-0"



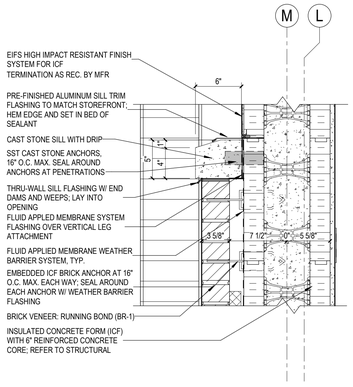
C1 TYP. SOFFIT DETAIL AT GYPSUM BULKHEAD
1 1/2" = 1'-0"



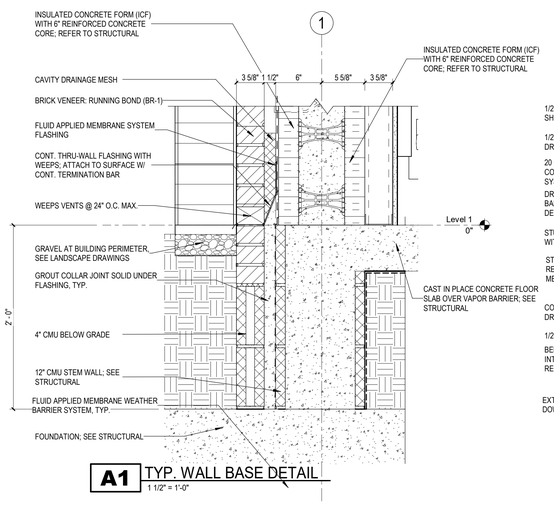
C2 SOFFIT DETAIL AT LOBBY NICHE
1 1/2" = 1'-0"



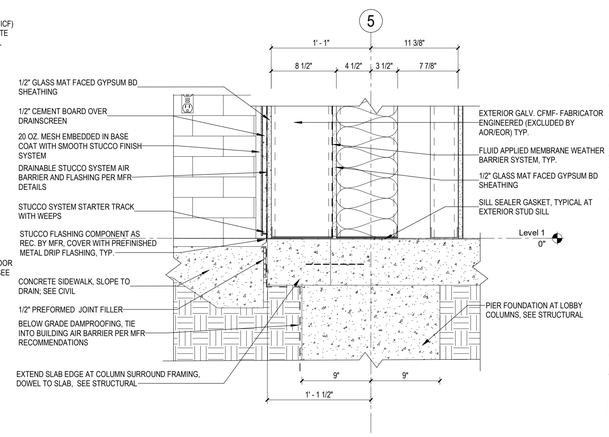
C3 DETAIL AT LOBBY STAIR PLATFORM
1 1/2" = 1'-0"



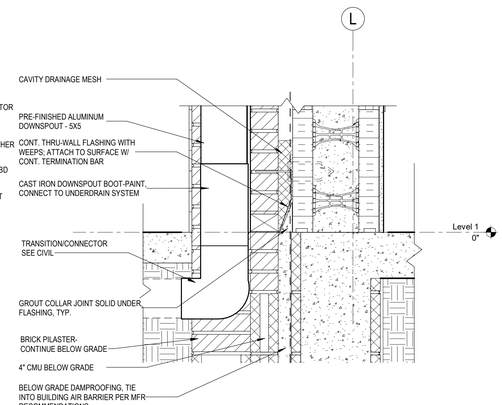
B1 TYP. PRECAST BAND AND SILL
1 1/2" = 1'-0"



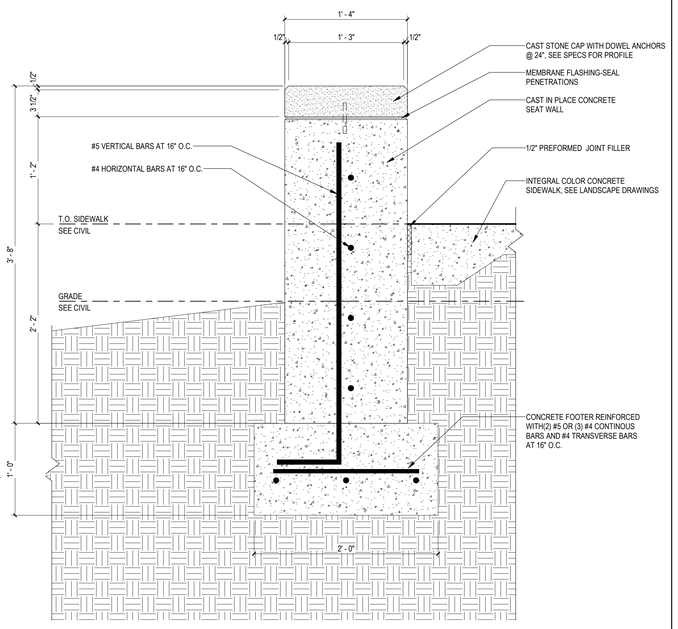
A1 TYP. WALL BASE DETAIL
1 1/2" = 1'-0"



A2 STUCCO COLUMN SURROUND BASE DETAIL
1 1/2" = 1'-0"



A3 DOWNSPOUT BOOT DETAIL
1 1/2" = 1'-0"



A4 TYP. DETAIL AT SEAT WALL
1 1/2" = 1'-0"

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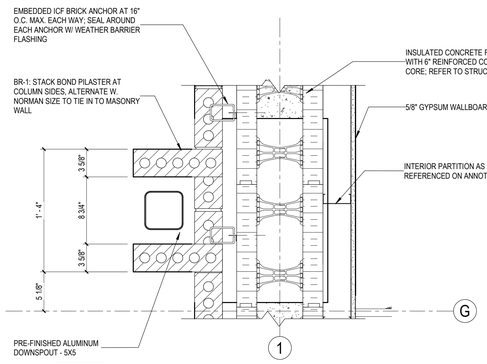
REVISIONS

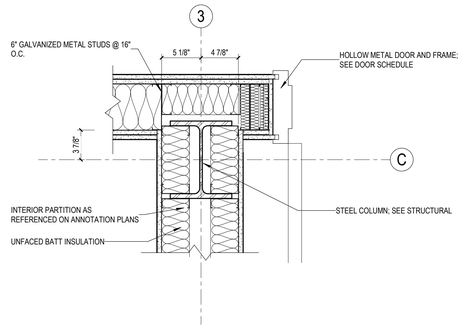
NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

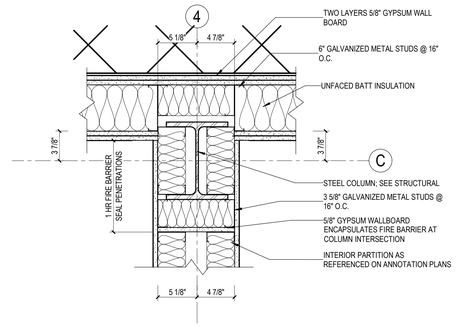
DETAILS
A-321



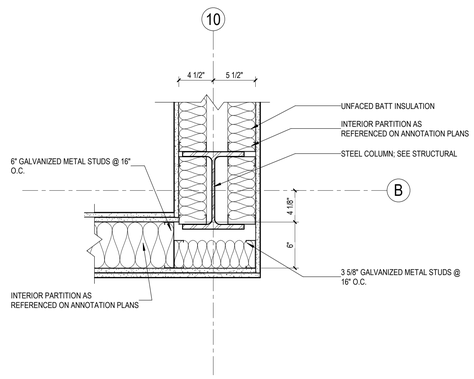
D1 BRICK SURROUND AT DOWNSPOUT
1 1/2" = 1'-0"



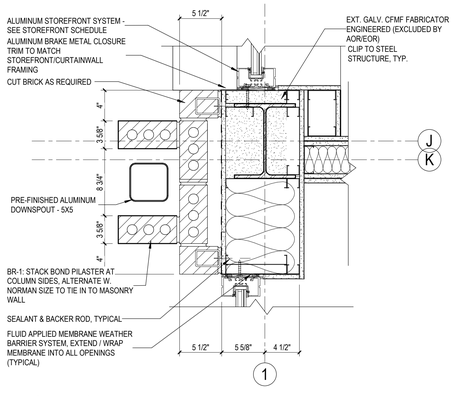
D2 COLUMN DETAIL C/3
1 1/2" = 1'-0"



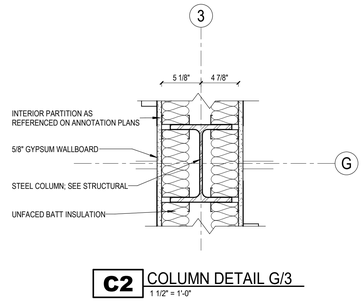
D3 COLUMN DETAIL C/4
1 1/2" = 1'-0"



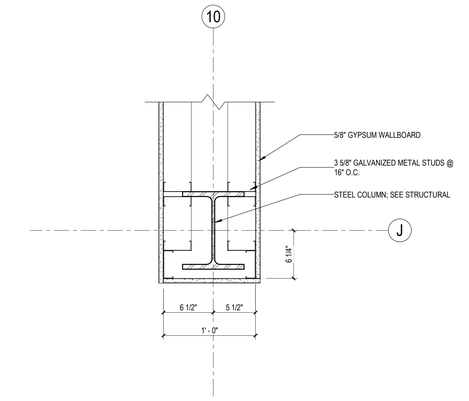
D4 COLUMN DETAIL B/10
1 1/2" = 1'-0"



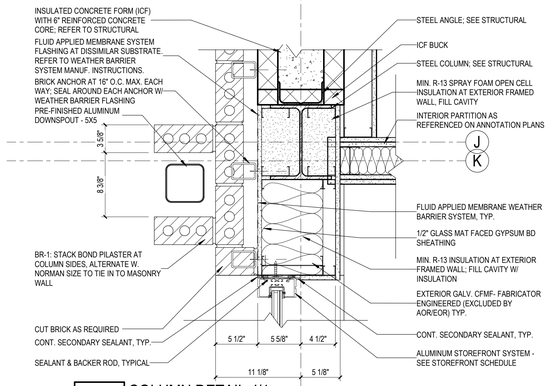
C1 COLUMN DETAIL J/1 HIGH
1 1/2" = 1'-0"



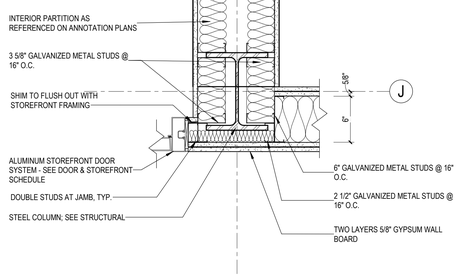
C2 COLUMN DETAIL G/3
1 1/2" = 1'-0"



B4 COLUMN DETAIL J/10
1 1/2" = 1'-0"



B1 COLUMN DETAIL J/1
1 1/2" = 1'-0"



B2 COLUMN DETAIL J/3
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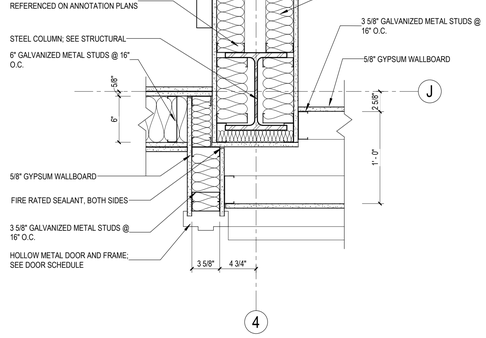
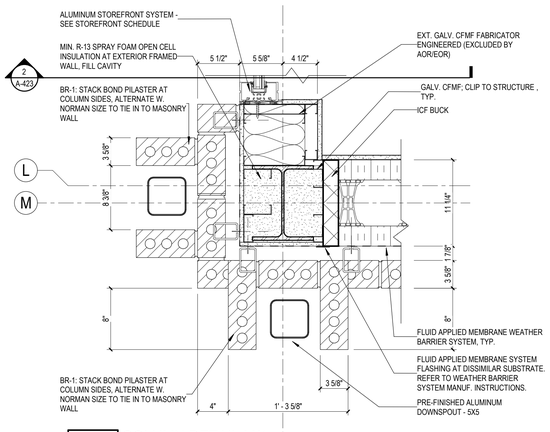
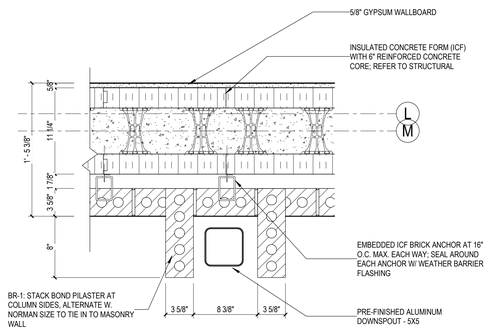


B3 COLUMN DETAIL J/4
1 1/2" = 1'-0"



A1 COLUMN DETAIL M/1
1 1/2" = 1'-0"



A2 TYP. BRICK SURROUND AT DOWNSPOUT
1 1/2" = 1'-0"

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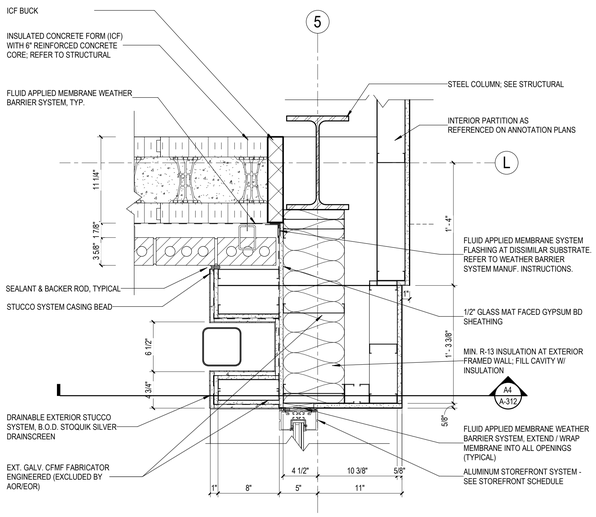
REVISIONS

NO.	DESCRIPTION	DATE

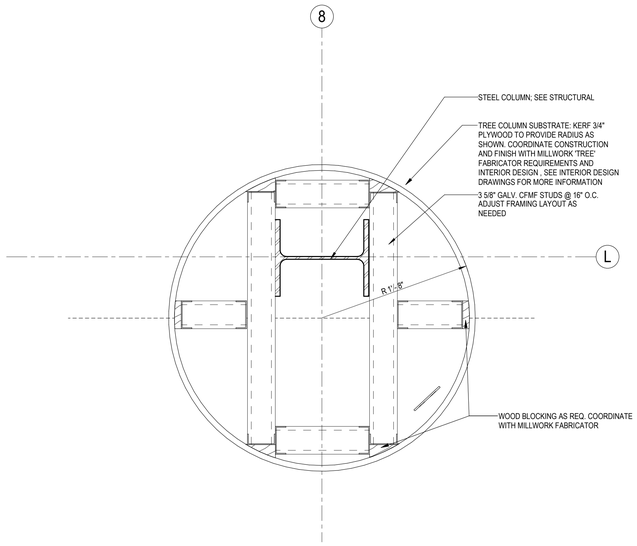
Project Number	**25004**
Dated	08.29.2025

PLAN DETAILS

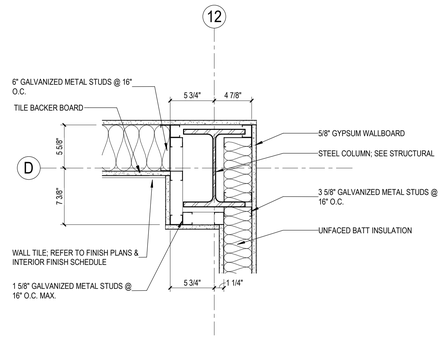
A-330



D1 COLUMN DETAIL L/5
1 1/2" = 1'-0"

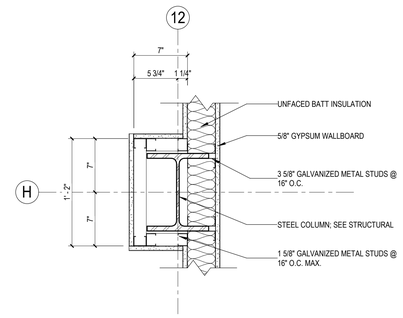


D2 DETAIL AT CUSTOM 'TREE' COLUMN
1 1/2" = 1'-0"

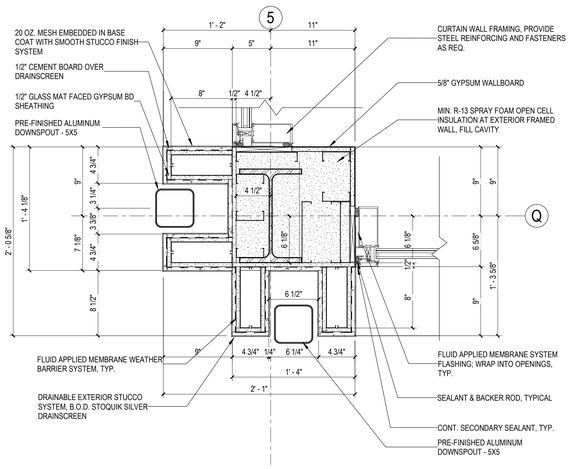


D3 COLUMN DETAIL D/12
1 1/2" = 1'-0"

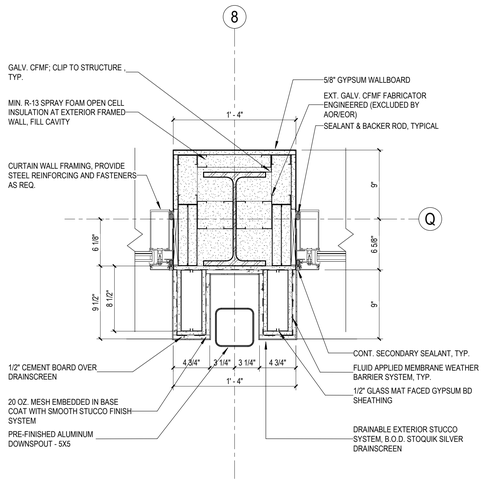
B1 COLUMN DETAIL N/5
1 1/2" = 1'-0"



B3 COLUMN DETAIL H/12
1 1/2" = 1'-0"



A1 COLUMN DETAIL Q/5
1 1/2" = 1'-0"



A2 COLUMN DETAIL Q/8
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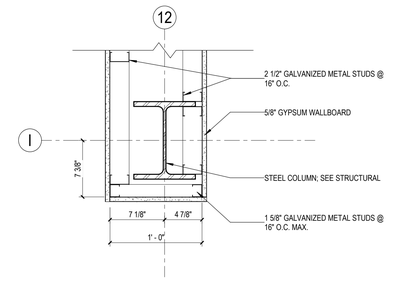

A3 COLUMN DETAIL I/12
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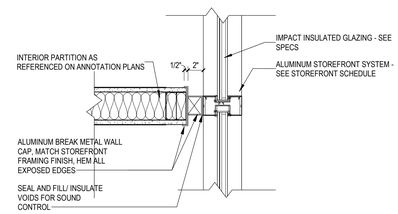

A4 PARTITION AT STOREFRONT MULLION DETAIL
1 1/2" = 1'-0"

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DAG
Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

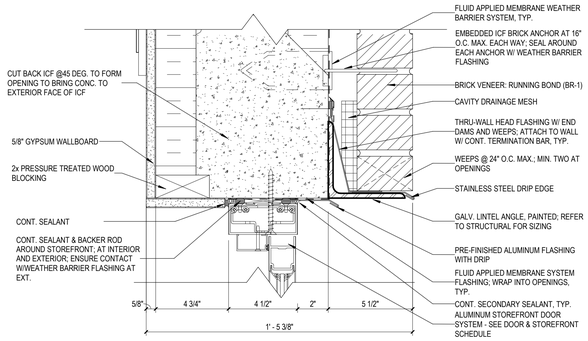
REVISIONS

NO.	DESCRIPTION	DATE

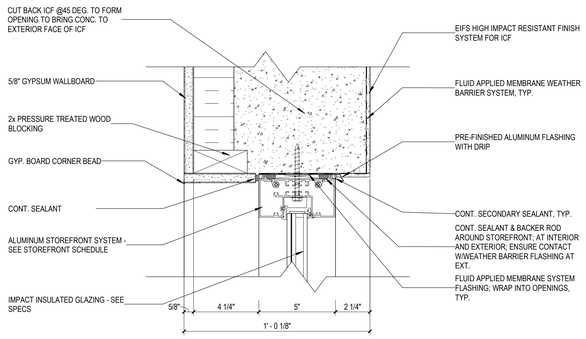
Project Number	**25004**
Dated	08.29.2025

PLAN DETAILS

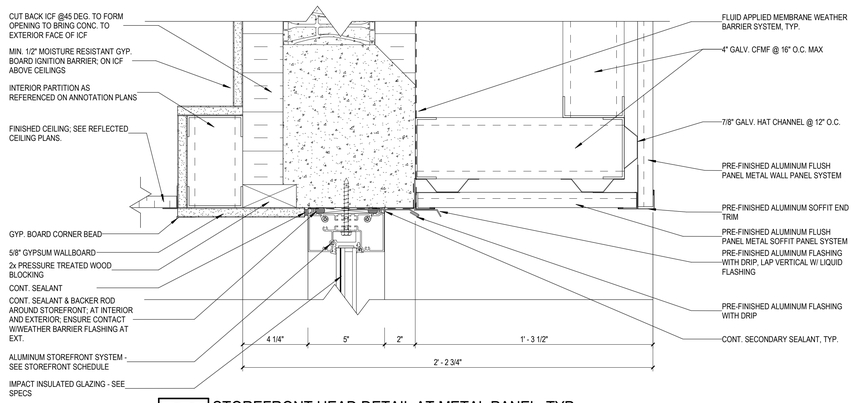
A-331



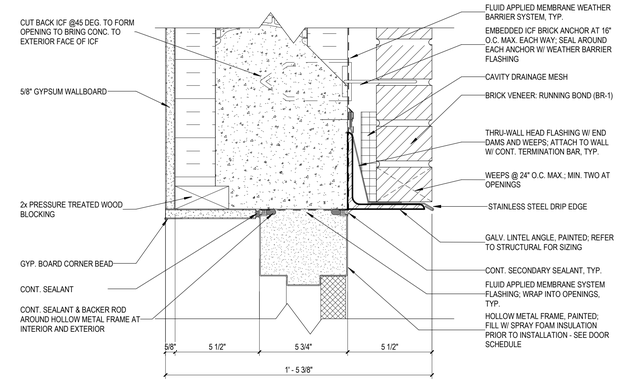
D3 STOREFRONT HEAD DETAIL AT DOOR 100C
3" = 1'-0"



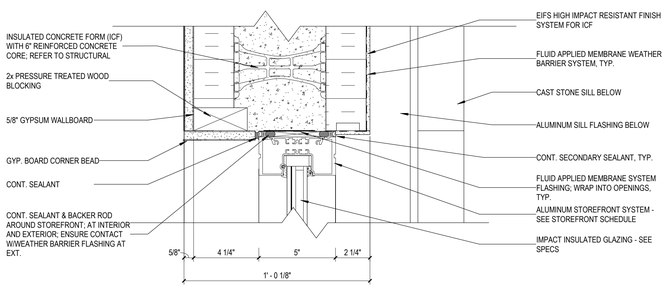
C1 STOREFRONT HEAD DETAIL AT EIFS, TYP.
3" = 1'-0"



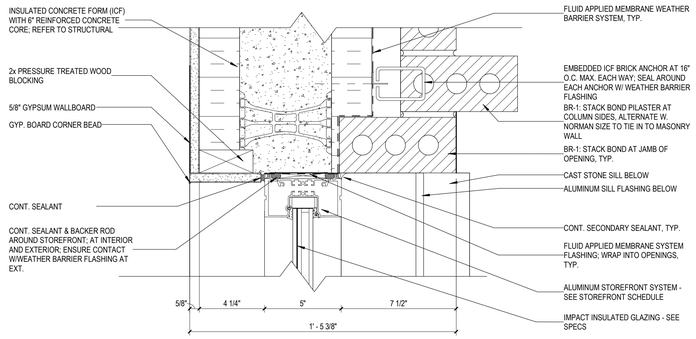
C3 STOREFRONT HEAD DETAIL AT METAL PANEL, TYP.
3" = 1'-0"



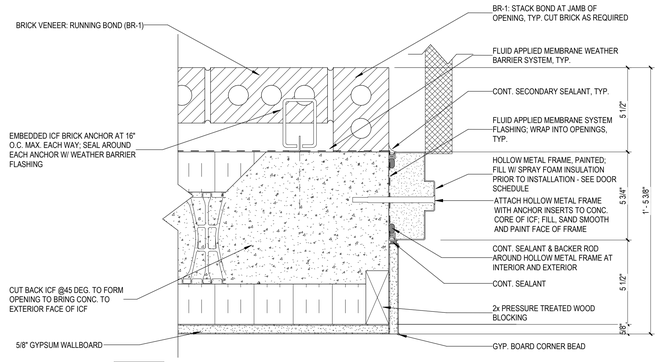
C4 EXTERIOR HOLLOW METAL DOOR HEAD DETAIL, TYP.
3" = 1'-0"



B1 STOREFRONT JAMB DETAIL AT EIFS, TYP.
3" = 1'-0"



B3 STOREFRONT JAMB DETAIL AT BRICK, TYP.
3" = 1'-0"



B4 EXTERIOR HOLLOW METAL DOOR JAMB DETAIL, TYP.
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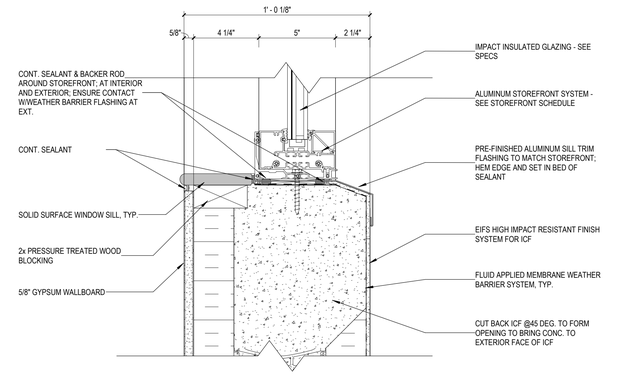
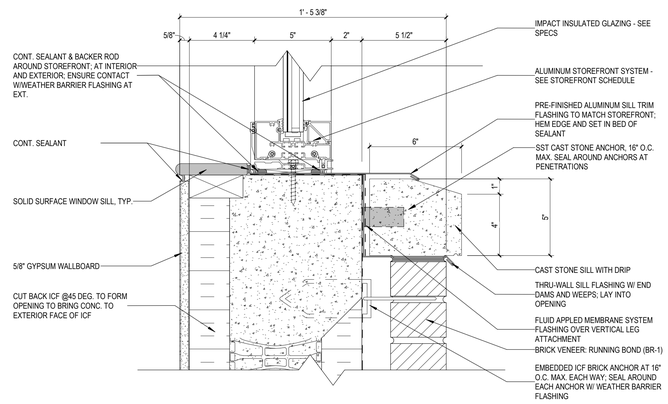
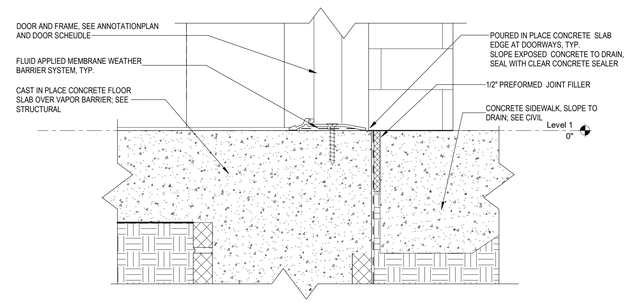


A1 STOREFRONT SILL DETAIL AT EIFS, TYP.
3" = 1'-0"



A3 STOREFRONT SILL DETAIL AT BRICK, TYP.
3" = 1'-0"



A4 TYP. EXT. DOOR SILL DETAIL
3" = 1'-0"

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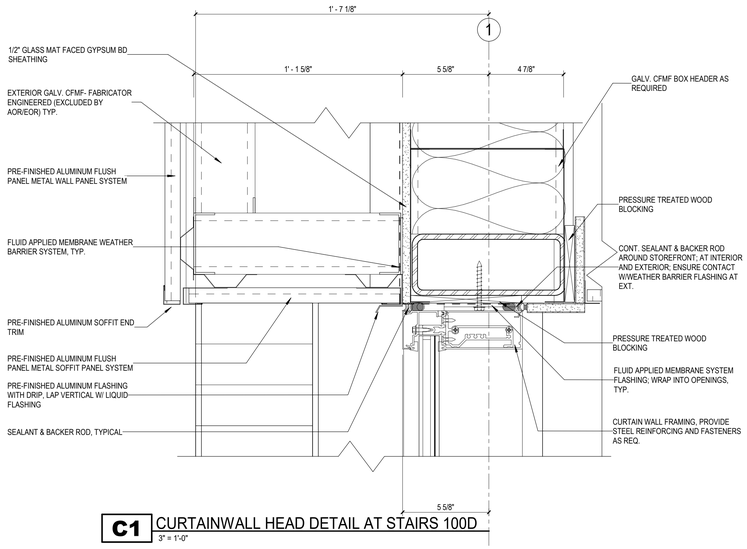
REVISIONS

NO.	DESCRIPTION	DATE

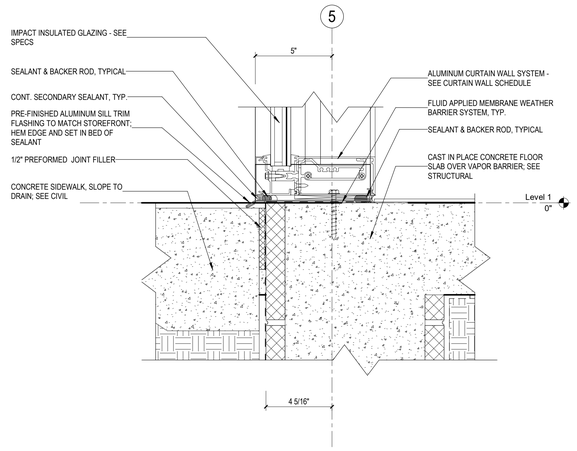
Project Number	**25004**
Dated	08.29.2025

DOOR AND WINDOW DETAILS

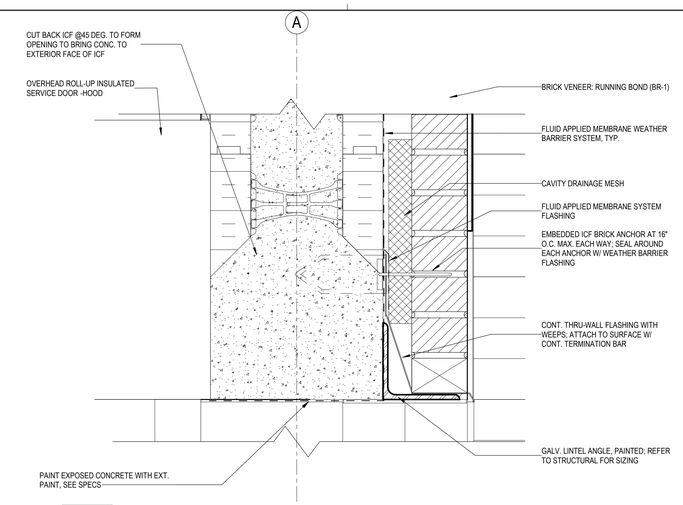
A-340



C1 CURTAINWALL HEAD DETAIL AT STAIRS 100D
3" = 1'-0"



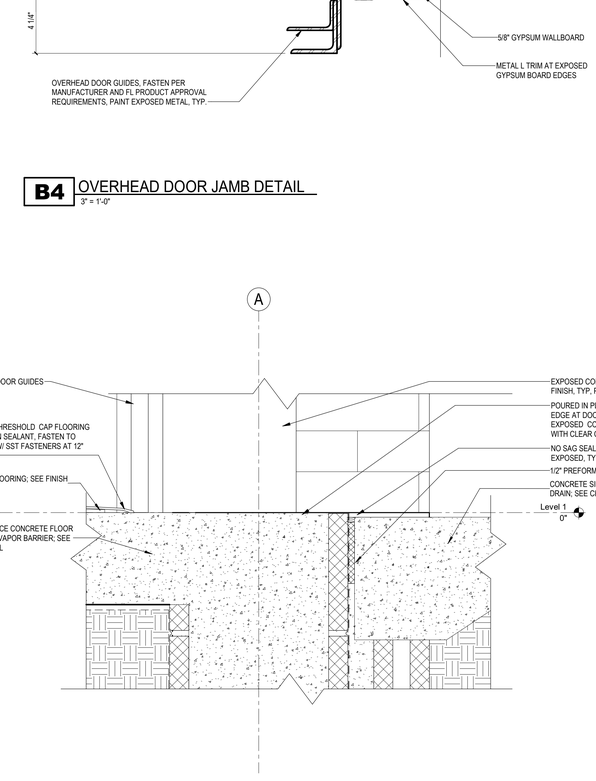
C2 CURTAIN WALL SILL DETAIL CL 5
3" = 1'-0"



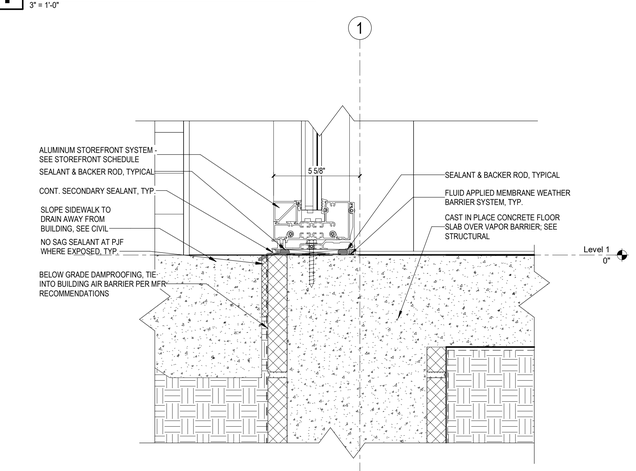
C4 OVERHEAD DOOR HEAD DETAIL
3" = 1'-0"

B1 CURTAINWALL DETAIL AT STAIRS 100D
3" = 1'-0"

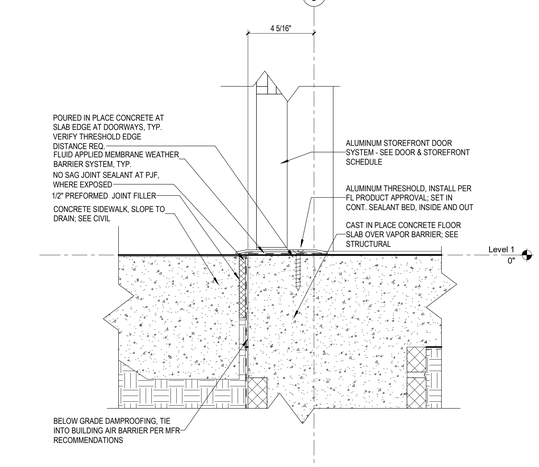
B2 CURTAINWALL SILL DETAIL
3" = 1'-0"



B4 OVERHEAD DOOR JAMB DETAIL
3" = 1'-0"



A1 STOREFRONT SILL DETAIL AT STAIRS 100D
3" = 1'-0"



A2 STOREFRONT DOOR SILL DETAIL AT LOBBY 100
3" = 1'-0"

A4 OVERHEAD DOOR SILL DETAIL
3" = 1'-0"

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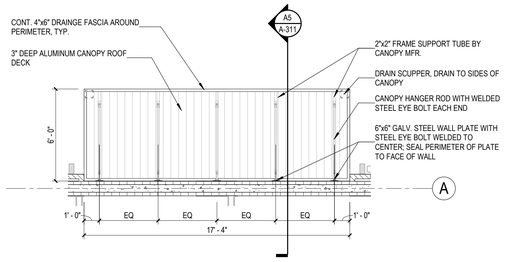
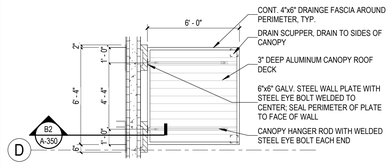
DOOR AND WINDOW DETAILS

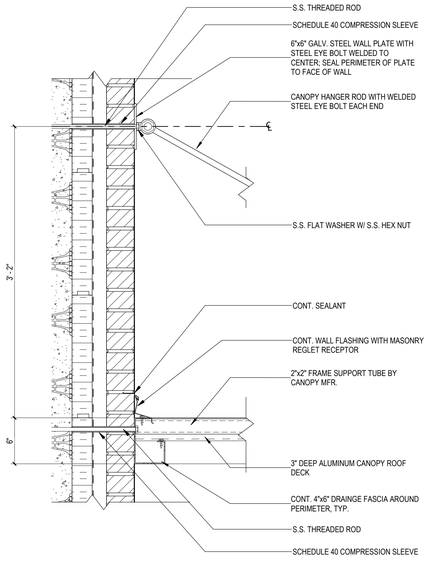
A-341



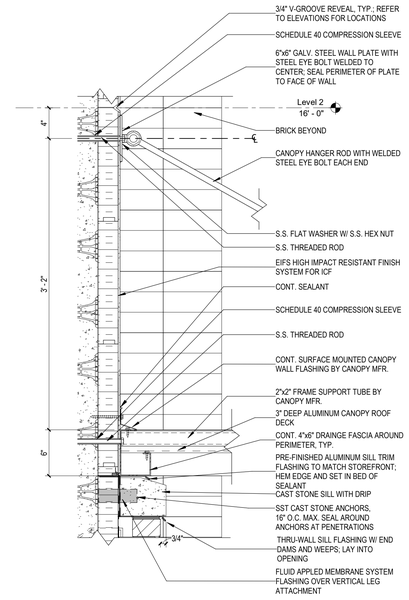
D1 ENLARGED PLAN - WALL MOUNTED CANOPY, TYPICAL
1/4" = 1'-0"



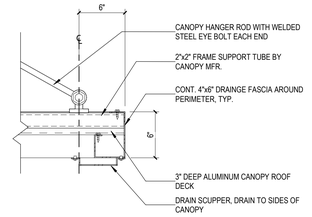
C1 ENLARGED PLAN - CANOPY AT DOOR 102A
1/4" = 1'-0"



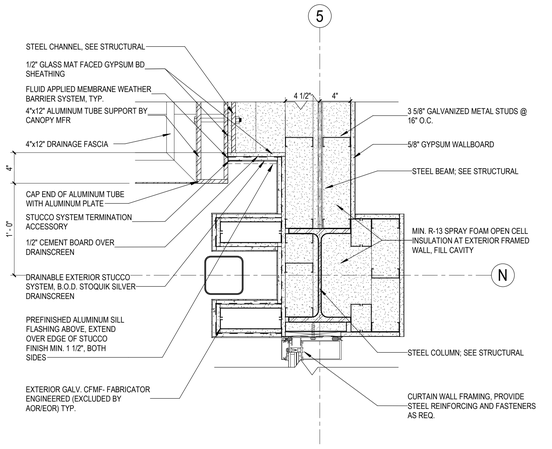
B2 TYPICAL DETAIL AT CANOPY DECK TO BRICK
1 1/2" = 1'-0"



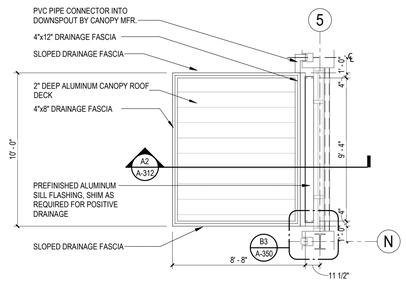
C3 TYPICAL DETAIL AT CANOPY DECK TO EIFS
1 1/2" = 1'-0"



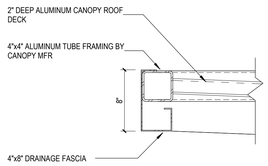
C4 TYPICAL DETAIL AT WALL MOUNTED CANOPY
1 1/2" = 1'-0"



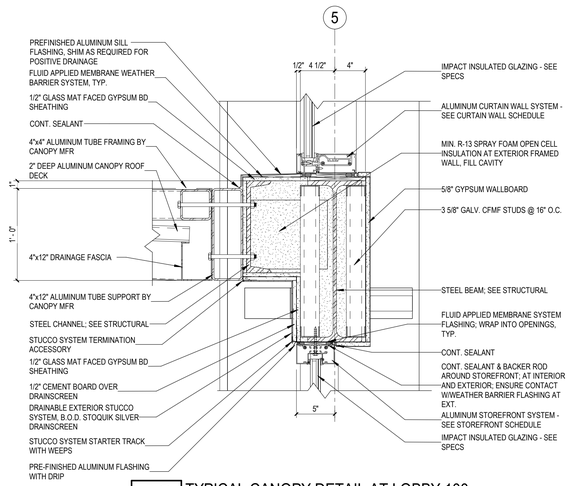
B3 CANOPY PLAN DETAIL AT COLUMN N/5
1 1/2" = 1'-0"



A1 ENLARGED PLAN - CUSTOM CANOPY AT LOBBY ENTRANCES
1/4" = 1'-0"



A2 TYPICAL CANOPY EDGE DETAIL AT LOBBY 100
1 1/2" = 1'-0"



A3 TYPICAL CANOPY DETAIL AT LOBBY 100
1 1/2" = 1'-0"

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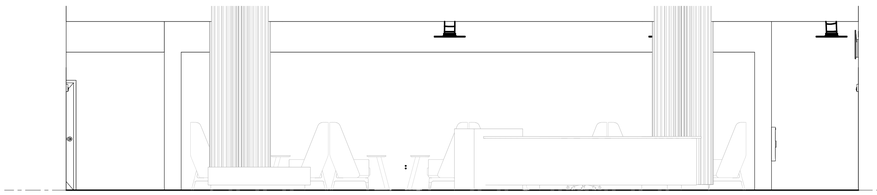
REVISIONS

NO.	DESCRIPTION	DATE

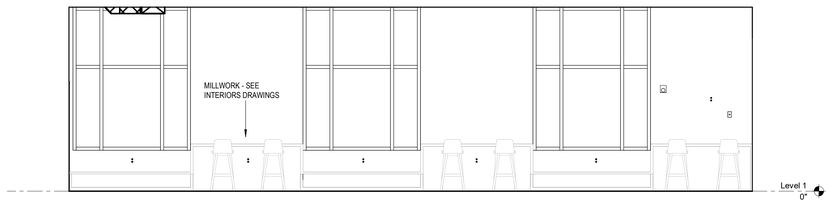
Project Number	**25004**
Dated	08.29.2025

ENLARGED CANOPY PLANS AND DETAILS

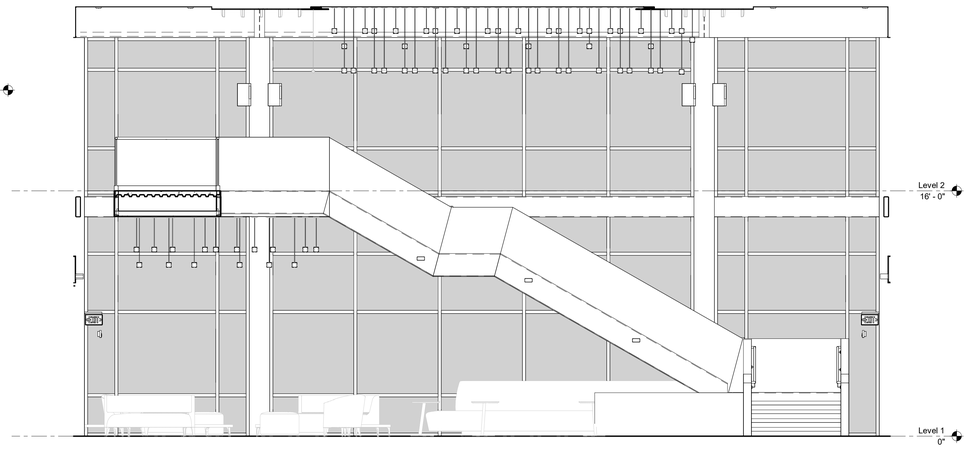
A-350



E1 100 LOBBY - 1
1/4" = 1'-0"



D1 100C CIRCULATION
1/4" = 1'-0"



D3 100 LOBBY - 2
1/4" = 1'-0"

GENERAL NOTES
ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO INTERIOR DESIGN SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

GENERAL NOTES
INTERIOR ELEVATIONS

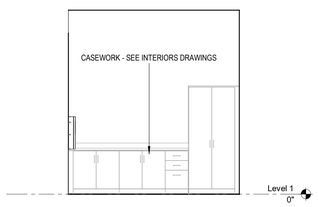
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE 20 GA. STEEL SHEET METAL BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO INTERIOR DESIGN SHEETS FOR FINISH SCHEDULE.
5. REFER TO SHEET A-001 FOR STANDARD MOUNTING HEIGHTS AND TOILET ACCESSORY LEGEND.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION. SEE ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES.

GRAPHIC LEGEND
INTERIOR ELEVATIONS

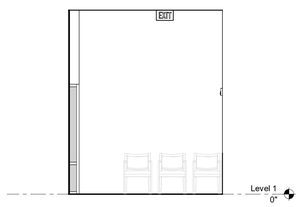
BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

EQ-1 — SPECIALTY EQUIPMENT, REFER TO SPECIALTY EQUIPMENT SCHEDULE ON SHEET A-001

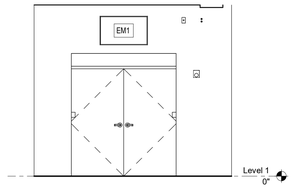
P-1 — WALL FINISH / EXTENT OF FINISH



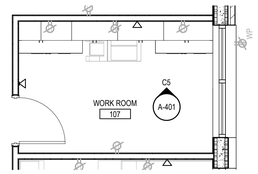
C1 102 RECEPTION - 1
1/4" = 1'-0"



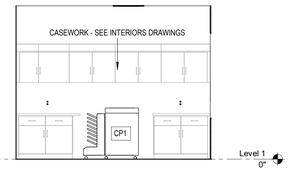
C2 102 RECEPTION - 2
1/4" = 1'-0"



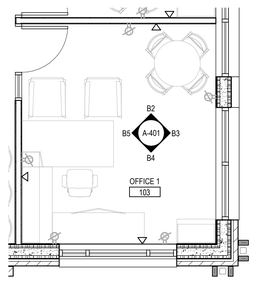
C3 100 LOBBY - 3
1/4" = 1'-0"



C4 107 WORKROOM
1/4" = 1'-0"

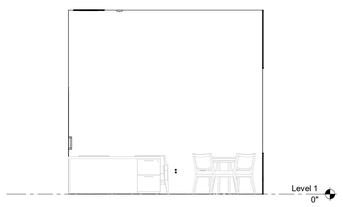


C5 107 WORKROOM
1/4" = 1'-0"

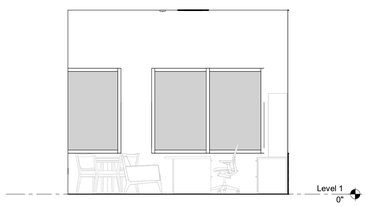


TYPICAL FOR ROOMS:
103
104
114

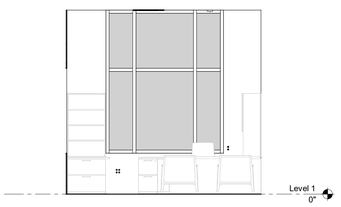
B1 103 OFFICE
1/4" = 1'-0"



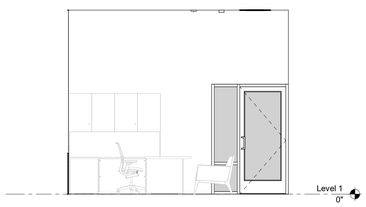
B2 103 OFFICE - 1
1/4" = 1'-0"



B3 103 OFFICE - 2
1/4" = 1'-0"

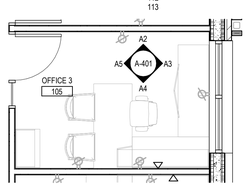


B4 103 OFFICE - 3
1/4" = 1'-0"

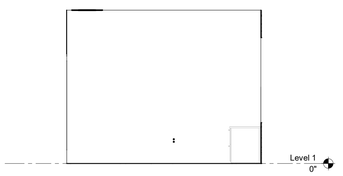


B5 103 OFFICE - 4
1/4" = 1'-0"

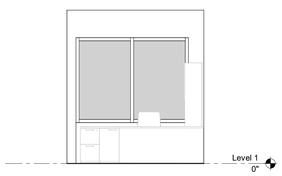
TYPICAL FOR ROOMS:
105
106
112
113



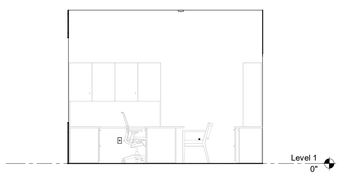
A1 105 OFFICE
1/4" = 1'-0"



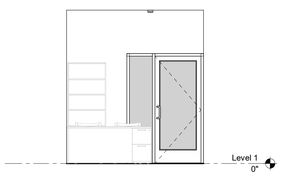
A2 105 OFFICE - 1
1/4" = 1'-0"



A3 105 OFFICE - 2
1/4" = 1'-0"



A4 105 OFFICE - 3
1/4" = 1'-0"



A5 105 OFFICE - 4
1/4" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

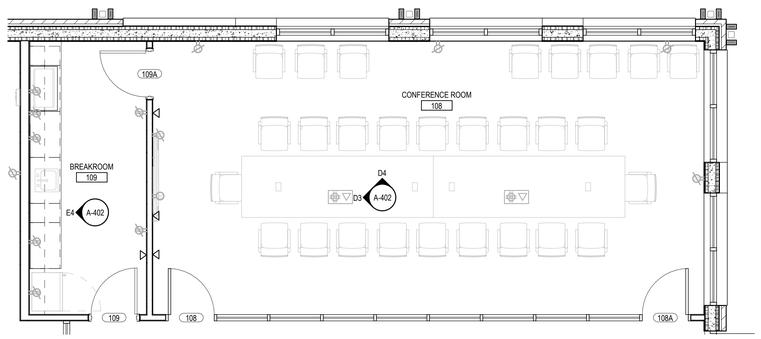
REVISIONS

NO.	DESCRIPTION	DATE

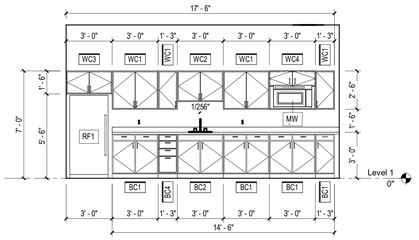
Project Number **25004**
Dated 08.29.2025

ENLARGED PLANS & ELEVATIONS

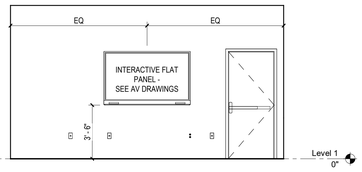
A-401



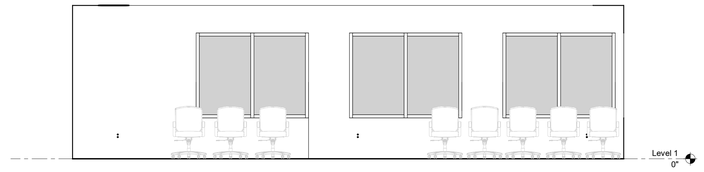
D1 108 CONFERENCE & 109 BREAKROOM
1/4" = 1'-0"



E4 109 BREAKROOM
1/4" = 1'-0"



D3 108 CONFERENCE ROOM - 1
1/4" = 1'-0"



D4 108 CONFERENCE ROOM - 2
1/4" = 1'-0"

GENERAL NOTES — ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO INTERIOR DESIGN SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

GENERAL NOTES — INTERIOR ELEVATIONS

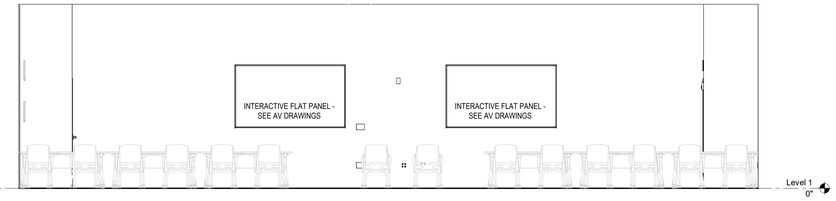
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE 20 GA. STEEL SHEET METAL BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO INTERIOR DESIGN SHEETS FOR FINISH SCHEDULE.
5. REFER TO SHEET A-001 FOR STANDARD MOUNTING HEIGHTS AND TOILET ACCESSORY LEGEND.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION. SEE ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES.

GRAPHIC LEGEND — INTERIOR ELEVATIONS

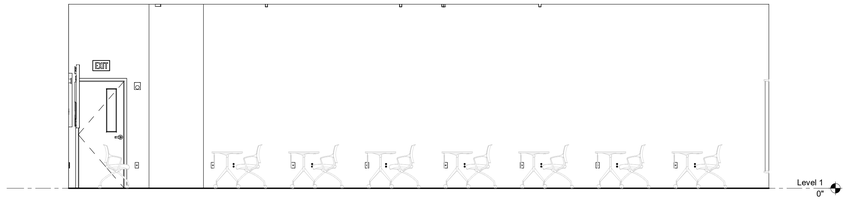
BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

EQ-1 — SPECIALTY EQUIPMENT, REFER TO SPECIALTY EQUIPMENT SCHEDULE ON SHEET A-001

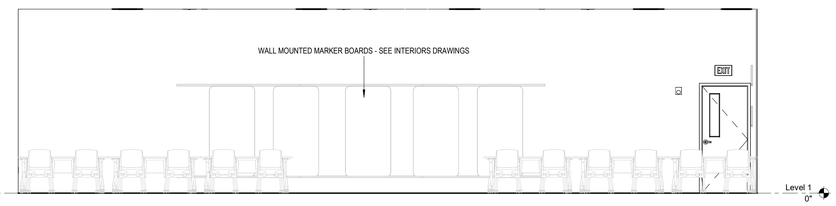
P-1 — WALL FINISH
EXTENT OF FINISH



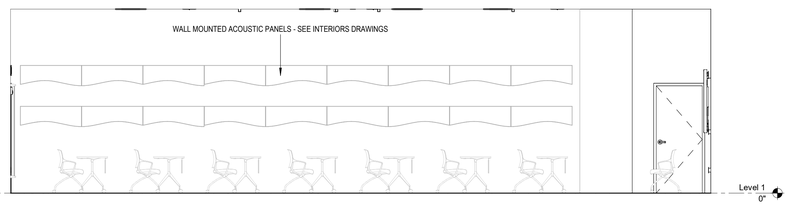
C1 118 CLASSROOM - 1
1/4" = 1'-0"



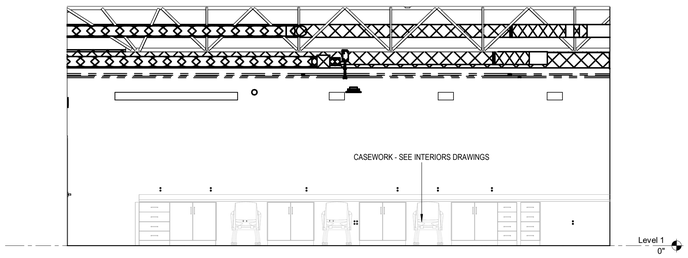
C3 118 CLASSROOM - 2
1/4" = 1'-0"



B1 118 CLASSROOM - 3
1/4" = 1'-0"



B3 118 CLASSROOM - 4
1/4" = 1'-0"



A1 124 STORAGE 2
1/4" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

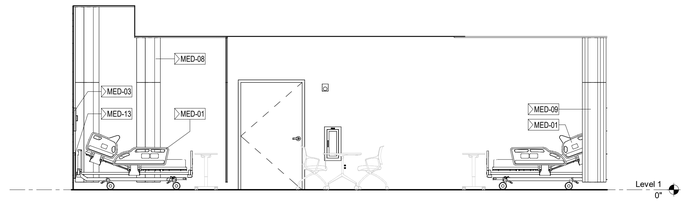
5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION *DATE*

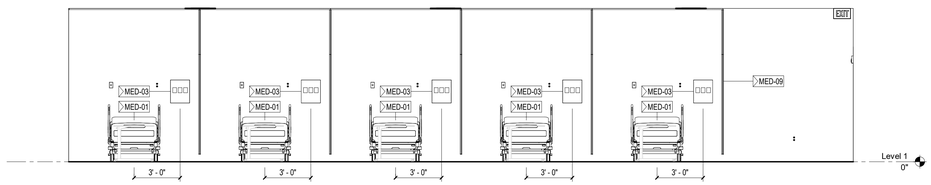
Project Number **25004**
Dated 08.29.2025

ENLARGED PLANS & ELEVATIONS

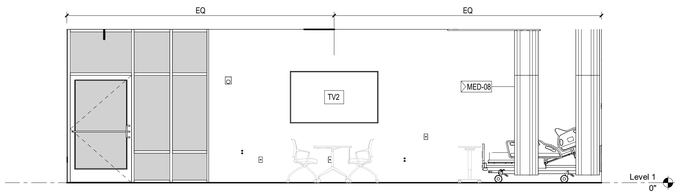
A-402



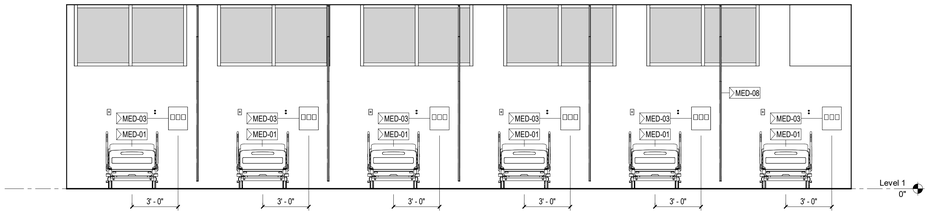
E1 120 SKILLS LAB - 1
1/4" = 1'-0"



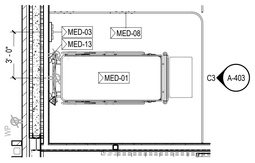
E3 120 SKILLS LAB - 2
1/4" = 1'-0"



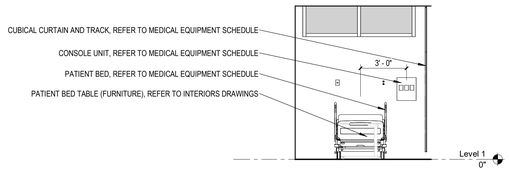
D1 120 SKILLS LAB - 3
1/4" = 1'-0"



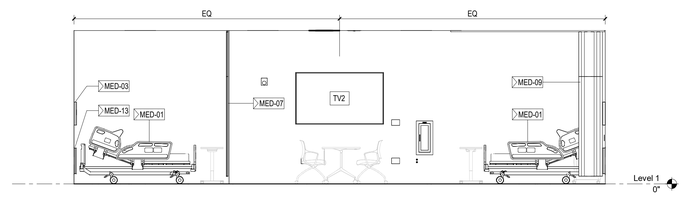
D3 120 SKILLS LAB - 4
1/4" = 1'-0"



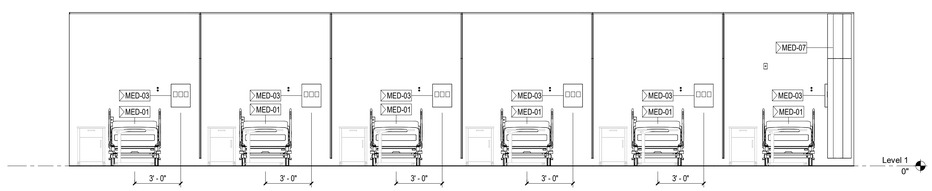
C1 TYPICAL SKILLS BED
1/4" = 1'-0"



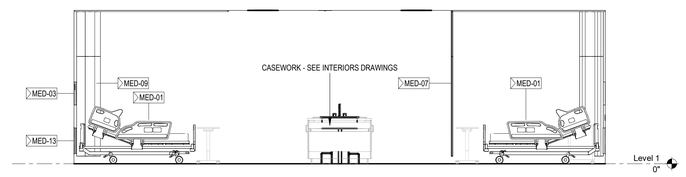
C3 TYPICAL SKILLS BED
1/4" = 1'-0"



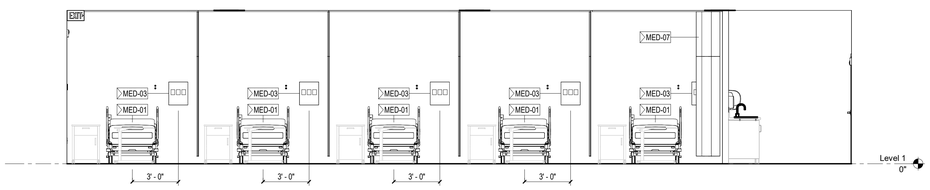
B1 119 SKILLS LAB - 1
1/4" = 1'-0"



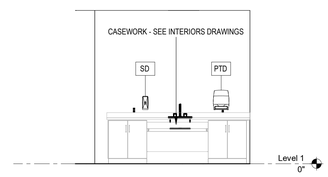
B3 119 SKILLS LAB - 2
1/4" = 1'-0"



A1 119 SKILLS LAB - 3
1/4" = 1'-0"



A3 119 SKILLS LAB - 4
1/4" = 1'-0"



A6 119 SKILLS LAB - 5
1/4" = 1'-0"

GENERAL NOTES — ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO INTERIOR DESIGN SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

GENERAL NOTES — INTERIOR ELEVATIONS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE 20 GA. STEEL SHEET METAL BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO INTERIOR DESIGN SHEETS FOR FINISH SCHEDULE.
5. REFER TO SHEET A-001 FOR STANDARD MOUNTING HEIGHTS AND TOILET ACCESSORY LEGEND.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION. SEE ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES.

GRAPHIC LEGEND — INTERIOR ELEVATIONS

BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

EQ-1 — SPECIALTY EQUIPMENT, REFER TO SPECIALTY EQUIPMENT SCHEDULE ON SHEET A-001

P-1 — WALL FINISH / EXTENT OF FINISH

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

ENLARGED PLANS & ELEVATIONS

A-403

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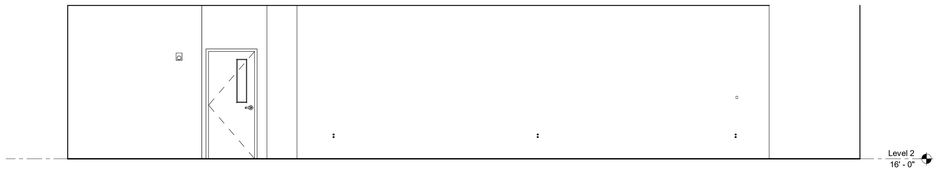
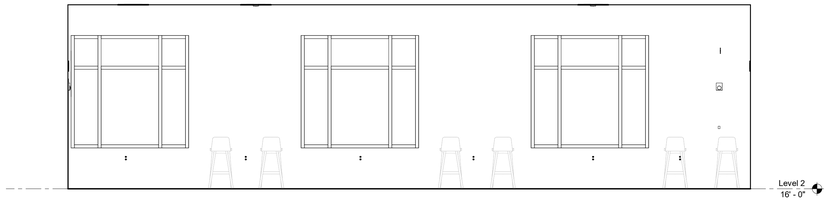
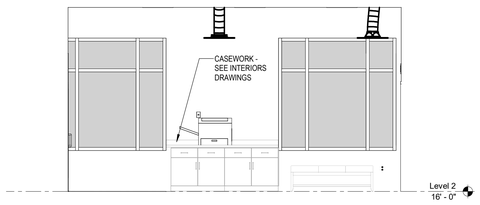


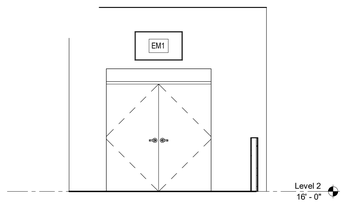
E1 200 COMMON SPACE - 1
1/4" = 1'-0"



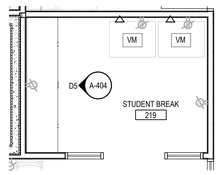
E4 200C CIRCULATION
1/4" = 1'-0"



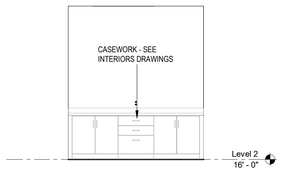
D1 201 VESTIBULE
1/4" = 1'-0"



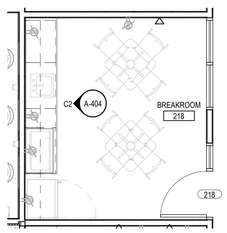
D3 200 COMMON SPACE - 2
1/4" = 1'-0"



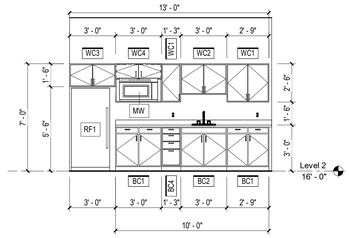
D4 219 STUDENT BREAK
1/4" = 1'-0"



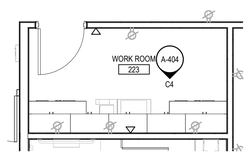
D5 219 STUDENT BREAK
1/4" = 1'-0"

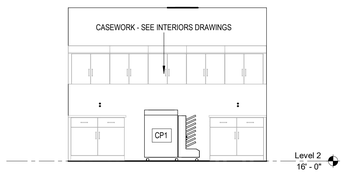


C1 218 BREAKROOM
1/4" = 1'-0"



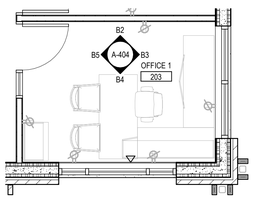
C2 218 BREAKROOM
1/4" = 1'-0"





C3 223 WORKROOM
1/4" = 1'-0"

C4 223 WORKROOM
1/4" = 1'-0"



TYPICAL FOR ROOMS:
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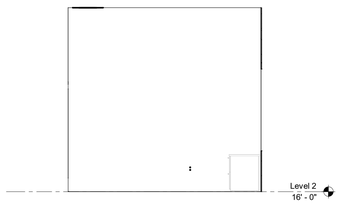
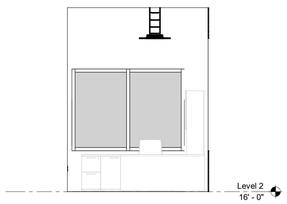
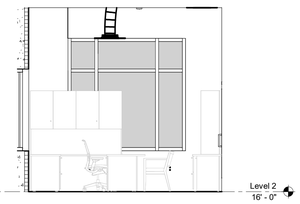
B1 203 OFFICE
1/4" = 1'-0"



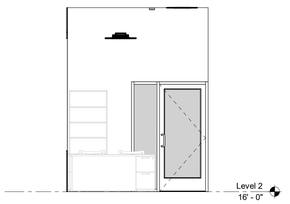
B2 203 OFFICE - 1
1/4" = 1'-0"



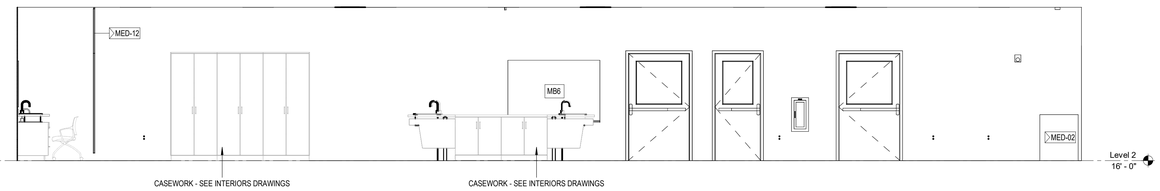
B3 203 OFFICE - 2
1/4" = 1'-0"



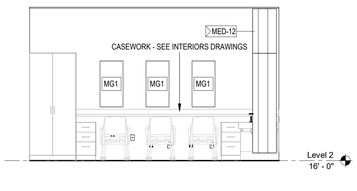
B4 203 OFFICE - 3
1/4" = 1'-0"



B5 203 OFFICE - 4
1/4" = 1'-0"



A1 229 SIM LAB
1/4" = 1'-0"



A5 229M MOULAGE
1/4" = 1'-0"

GENERAL NOTES — ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO INTERIOR DESIGN SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

GENERAL NOTES — INTERIOR ELEVATIONS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE 20 GA. STEEL SHEET METAL BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO INTERIOR DESIGN SHEETS FOR FINISH SCHEDULE.
5. REFER TO SHEET A-001 FOR STANDARD MOUNTING HEIGHTS AND TOILET ACCESSORY LEGEND.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION. SEE ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES.

GRAPHIC LEGEND — INTERIOR ELEVATIONS

BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

EQ-1 — SPECIALTY EQUIPMENT, REFER TO SPECIALTY EQUIPMENT SCHEDULE ON SHEET A-001

P-1 — WALL FINISH / EXTENT OF FINISH

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AR0017640
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BID DOCUMENTS

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

ENLARGED PLANS & ELEVATIONS

A-404

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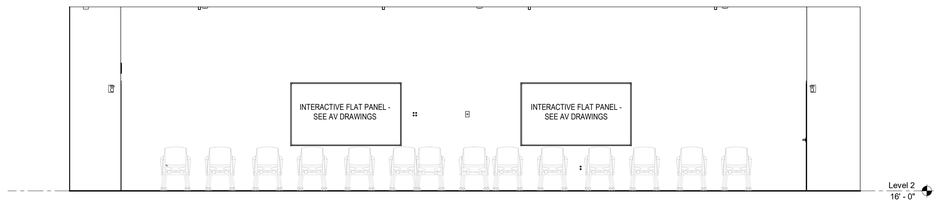
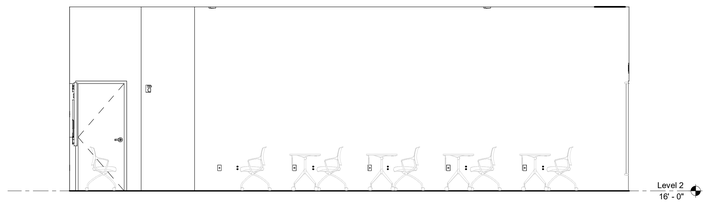
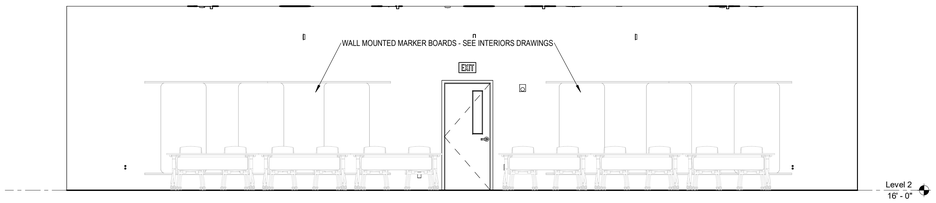


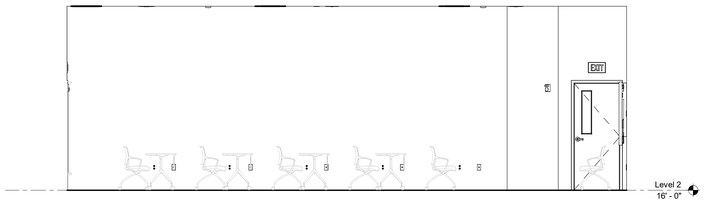
E1 227 CLASSROOM - 1
1/4" = 1'-0"



E4 227 CLASSROOM - 2
1/4" = 1'-0"



D1 227 CLASSROOM - 3
1/4" = 1'-0"



D4 227 CLASSROOM - 4
1/4" = 1'-0"

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BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

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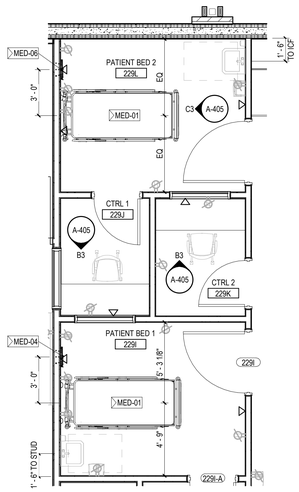
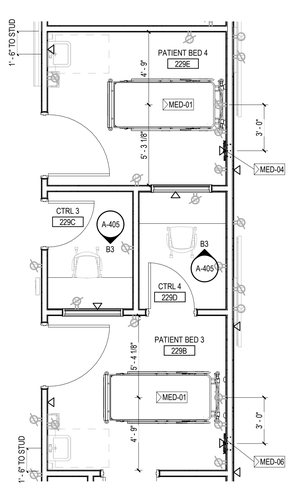
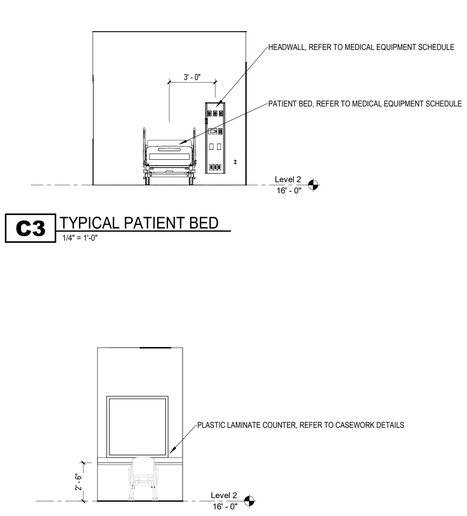


B1 PATIENT BEDS #1 & #2
1/4" = 1'-0"

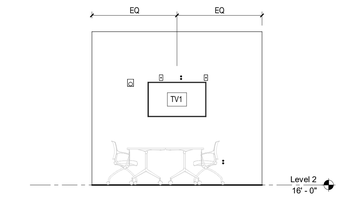


B2 PATIENT BEDS #3 & #4
1/4" = 1'-0"

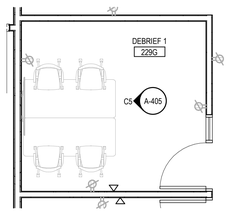


C3 TYPICAL PATIENT BED
1/4" = 1'-0"

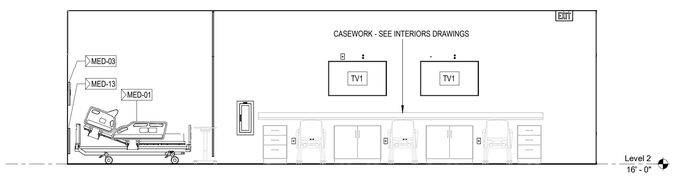
B3 TYPICAL CONTROL ROOM
1/4" = 1'-0"



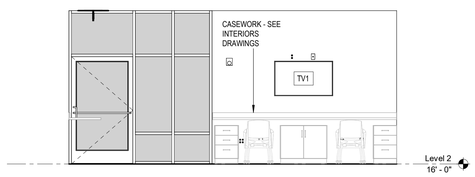
C5 229G DEBRIEF
1/4" = 1'-0"



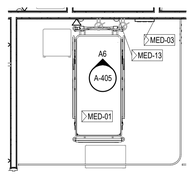
B5 229G DEBRIEF
1/4" = 1'-0"



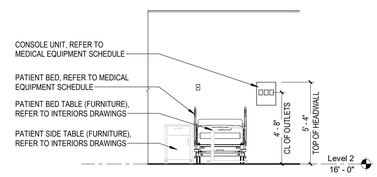
A1 230 SUCCESS LAB - 1
1/4" = 1'-0"



A3 230 SUCCESS LAB - 2
1/4" = 1'-0"



A5 230 SUCCESS BED
1/4" = 1'-0"



A6 230 SUCCESS BED
1/4" = 1'-0"

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AR0017640
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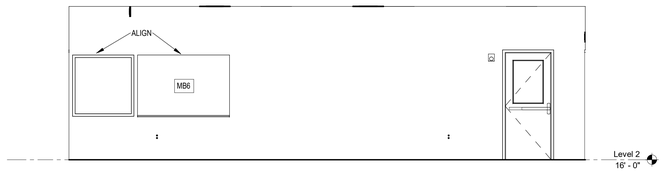
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION *DATE*

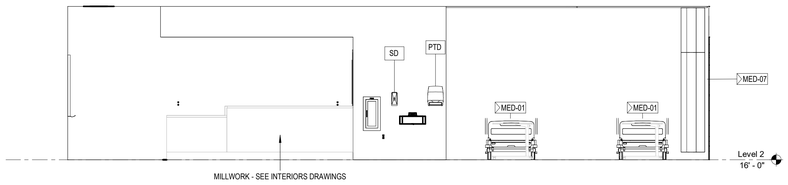
Project Number **25004**
Dated 08.29.2025

ENLARGED PLANS & ELEVATIONS

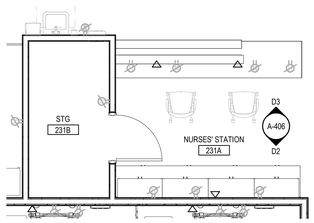
A-405



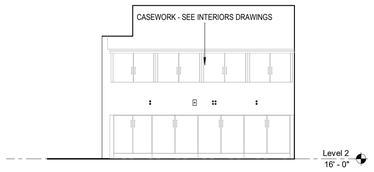
E1 231 ICU LAB - 1
1/4" = 1'-0"



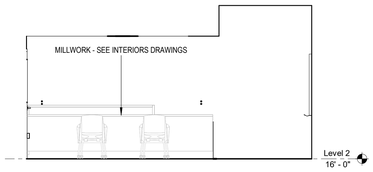
E3 231 ICU LAB - 2
1/4" = 1'-0"



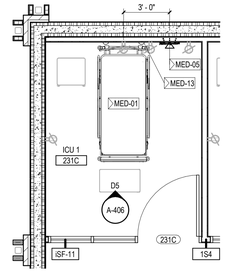
D1 231A NURSES STATION
1/4" = 1'-0"



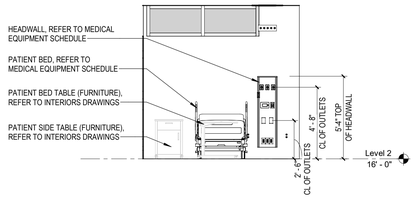
D2 231A NURSES STATION - 1
1/4" = 1'-0"



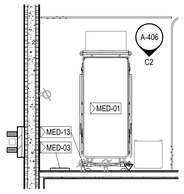
D3 231A NURSES STATION - 2
1/4" = 1'-0"



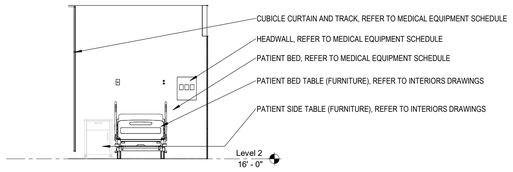
D4 TYPICAL ICU ROOM
1/4" = 1'-0"



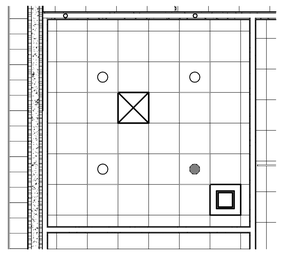
D5 TYPICAL ICU ROOM
1/4" = 1'-0"



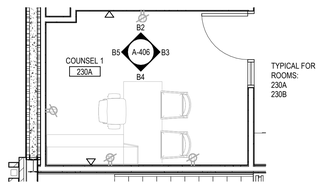
C1 TYPICAL ICU BED
1/4" = 1'-0"



C2 TYPICAL ICU BED
1/4" = 1'-0"

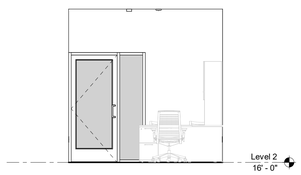


C4 230C VR LAB ENLARGED RCP
1/4" = 1'-0"

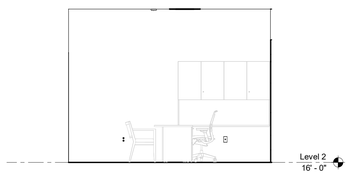


B1 230A COUNSEL
1/4" = 1'-0"

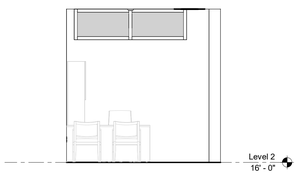
B2 230A COUNSEL - 1
1/4" = 1'-0"



B3 230A COUNSEL - 2
1/4" = 1'-0"



B4 230A COUNSEL - 3
1/4" = 1'-0"



B5 230A COUNSEL - 4
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DAG Architects
AR0017640
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REVISIONS
NO. DESCRIPTION DATE

Project Number **25004**
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ENLARGED PLANS & ELEVATIONS

A-406

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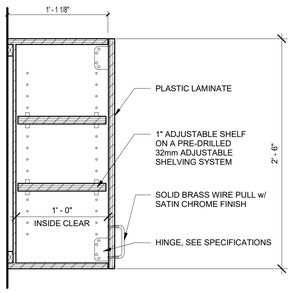
GENERAL NOTES

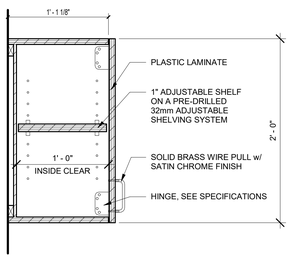
CASEWORK

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. ALL SMALL VOIDS BETWEEN WALLS OR PARTITIONS AND ADJACENT CASEWORK, SHELVING, DOOR FRAMES, BUILT-IN OR SURFACE MOUNTED EQUIPMENT AND FIXTURES, AND SIMILAR ITEMS TO RECEIVE JOINT SEALANT. MATCH SEALANT TO ADJACENT FINISH. ARCHITECT AND/OR INTERIOR DESIGNER TO APPROVE FINAL COLOR. FOR MORE SEALANT INFORMATION SEE SPECIFICATIONS.
3. ALL FINISHES INDICATED ON INTERIOR ELEVATIONS AND INTERIOR DESIGN SHEETS.
4. ALL CASEWORK TO BE CONSTRUCTED TO FIT THROUGH 3'-0" DOOR AND HOLLOW METAL FRAME ASSEMBLY.
5. INSTALL FLOORING PRIOR TO CASEWORK INSTALLATION.
6. CASEWORK TO HAVE TOE KICK ON ALL EXPOSED SIDES UNO.
7. CLOSET SHELF DEPTH TO VARY, SEE ELEVATIONS FOR SIZING.



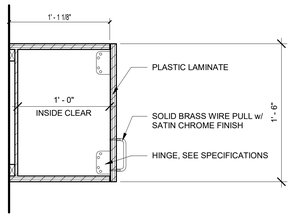
WC1 = (30" H) UPPER CABINET

1 1/2" = 1'-0"



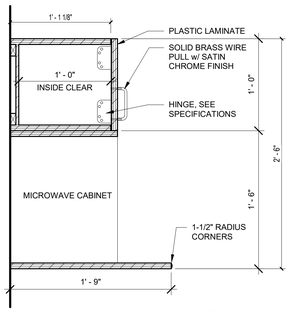
WC2 = (24" H) ABOVE SINK CABINET

1 1/2" = 1'-0"



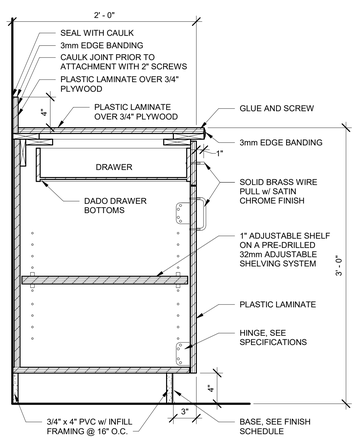
WC3 = (24" H) ABOVE FRIDGE CABINET

1 1/2" = 1'-0"



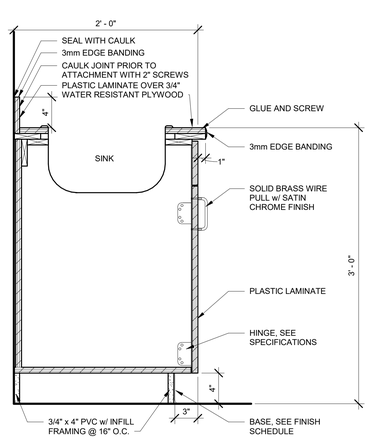
WC4 = (12"/30" H) UPPER MICROWAVE

1 1/2" = 1'-0"



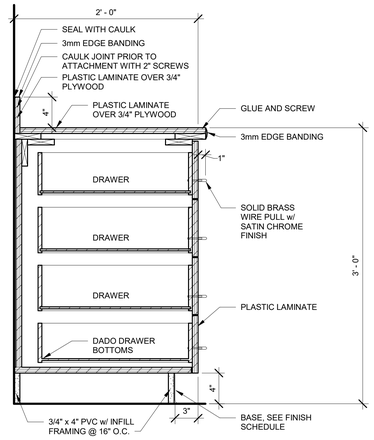
BC1 = 36" HIGH BASE CABINET (24" DEEP)

1 1/2" = 1'-0"



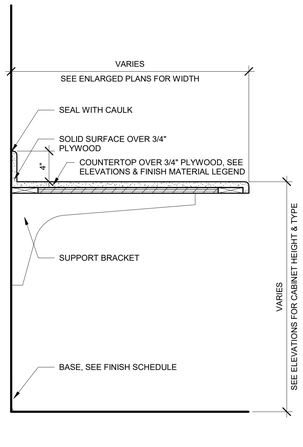
BC2 = 36" HIGH BASE SINK (24" DEEP)

1 1/2" = 1'-0"



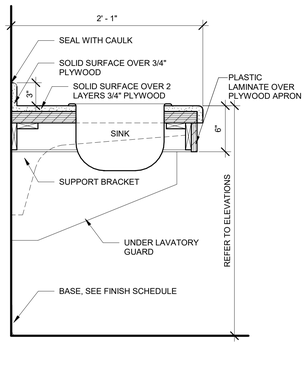
BC4 = 36" HIGH BASE 4 DRAWERS (24" DEEP)

1 1/2" = 1'-0"



KNEE SPACE (TYPICAL)

1 1/2" = 1'-0"



RESTROOM SINK

1 1/2" = 1'-0"

DAG
Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

CASEWORK SECTIONS

A-407

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED	OWNER PROVIDED	OWNER INSTALLED
GB1	36" GRAB BAR	Bradley Corporation	8120-001360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
GB2	42" GRAB BAR	Bradley Corporation	8120-001360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MG1	MIRROR 18" x 36"	Bradley Corporation	781-018360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MG2	MIRROR 24" x 36"	Bradley Corporation	781-024360	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
MH	MOP & BROOM HOLDER, 3 HOLDERS	Bradley Corporation	9953 BradEX	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED		
PTD	PAPER TOWEL DISPENSER					OWNER PROVIDED	OWNER INSTALLED
SD	SOAP DISPENSER	Bradley Corporation	6A01-11			OWNER PROVIDED	OWNER INSTALLED
TTD	TOILET TISSUE DISPENSER					OWNER PROVIDED	OWNER INSTALLED

GENERAL NOTES — ENLARGED PLANS

1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. THE CONTRACTOR SHALL PROVIDE REINFORCING [TYPE TBD] BEHIND WALL MOUNTED AND CEILING MOUNTED EQUIPMENT. COORDINATE WITH A / V, DATA, CASEWORK, FURNITURE, ELECTRICAL, AND INTERIOR ELEVATION DRAWINGS.
3. INTERIOR DOORS TO BE LOCATED MIN 6" FROM ADJACENT STUD PARTITIONS AND 8" FROM ADJACENT MASONRY PARTITIONS, UNLESS DIMENSIONED OR NOTED OTHERWISE.
4. CONTRACTOR SHALL COORDINATE WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND ALL OTHER DISCIPLINES.
5. REFER TO INTERIOR DESIGN SHEETS FOR FINISHES.
6. REFER TO A-011 FOR ADDITIONAL INFORMATION ON INTERIOR PARTITION TYPE ASSEMBLIES.
7. PROVIDE 1/8" / FT MIN SLOPE TOWARDS ALL FLOOR DRAINS, UNO.

GENERAL NOTES — INTERIOR ELEVATIONS

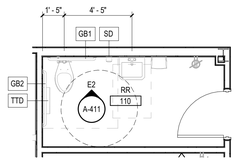
1. ALL CONTRACTORS MUST FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING NEW WORK.
2. CONTRACTORS SHALL PROVIDE 20 GA. STEEL SHEET METAL BLOCKING BEHIND WALL MOUNTED AND CEILING MOUNTED ITEMS, AS NEEDED. COORDINATE WITH A/V, DATA, AND ELECTRICAL DRAWINGS.
3. CONTRACTORS TO COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AS NEEDED.
4. REFER TO INTERIOR DESIGN SHEETS FOR FINISH SCHEDULE.
5. REFER TO SHEET A-001 FOR STANDARD MOUNTING HEIGHTS AND TOILET ACCESSORY LEGEND.
6. ALL GAPS BETWEEN CASEWORK AND WALLS TO RECEIVE INFILL PANELS TO MATCH ADJACENT CASEWORK.
7. REFER TO TOILET ACCESSORY SCHEDULE FOR ADDITIONAL INFORMATION. SEE ENLARGED PLANS FOR ADDITIONAL TOILET ACCESSORIES.

GRAPHIC LEGEND — INTERIOR ELEVATIONS

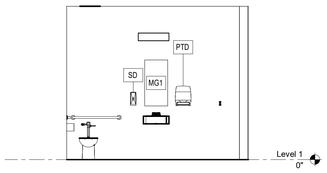
BC4.4 — CASEWORK, REFER TO SHEET A-430 FOR CASEWORK SECTIONS

EQ-1 — SPECIALTY EQUIPMENT, REFER TO SPECIALTY EQUIPMENT SCHEDULE ON SHEET A-001

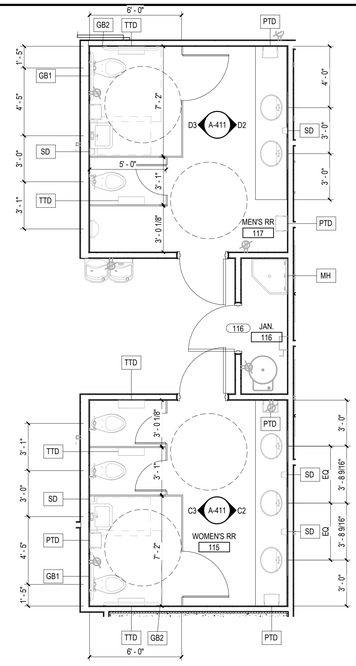
P-1 — WALL FINISH EXTENT OF FINISH



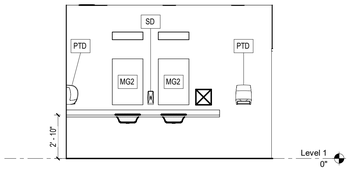
E1 110 RR
1/4" = 1'-0"



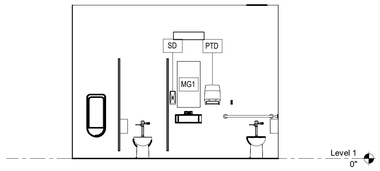
E2 110 RR
1/4" = 1'-0"



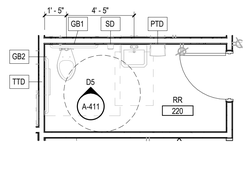
C1 115 WOMENS RR & 119 MENS RR
1/4" = 1'-0"



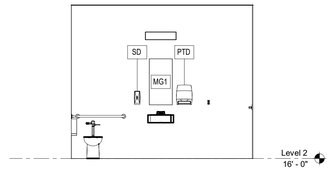
D2 117 MENS RR - 1
1/4" = 1'-0"



D3 117 MENS RR - 2
1/4" = 1'-0"



D4 220 STAFF RR
1/4" = 1'-0"



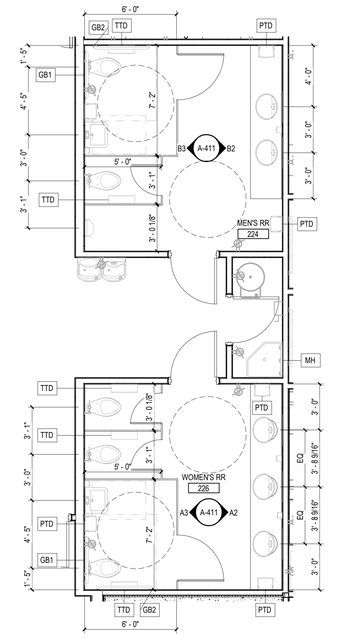
D5 220 STAFF RR
1/4" = 1'-0"

C2 115 WOMENS RR - 1
1/4" = 1'-0"

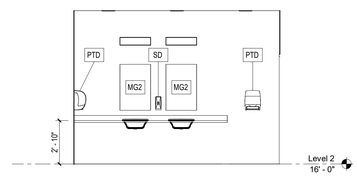
C3 115 WOMENS RR - 2
1/4" = 1'-0"

C4 221 STAFF RR
1/4" = 1'-0"

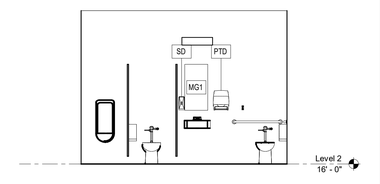
C5 221 STAFF RR
1/4" = 1'-0"



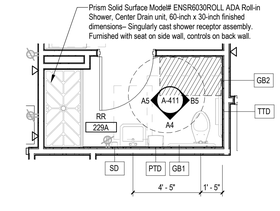
A1 226 WOMENS RR & 224 MENS RR
1/4" = 1'-0"



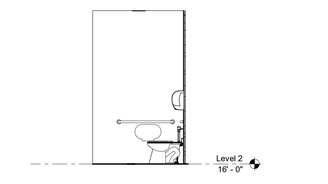
B2 224 MENS RR - 1
1/4" = 1'-0"



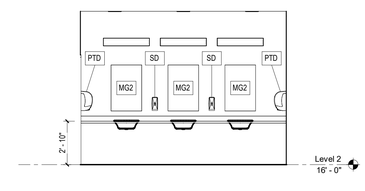
B3 224 MENS RR - 3
1/4" = 1'-0"



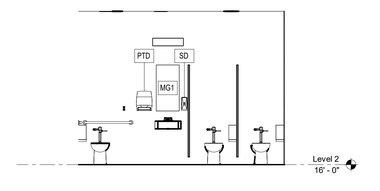
B4 229A SHOWER ROOM
1/4" = 1'-0"



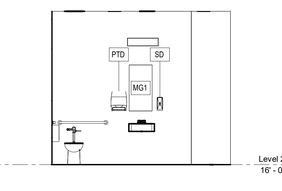
B5 229A SHOWER ROOM - 1
1/4" = 1'-0"



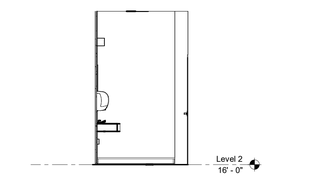
A2 226 WOMENS RR - 1
1/4" = 1'-0"



A3 226 WOMENS RR - 3
1/4" = 1'-0"



A4 229A SHOWER ROOM - 2
1/4" = 1'-0"



A5 229A SHOWER ROOM - 3
1/4" = 1'-0"

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25004
Dated	08.29.2025

RESTROOM ENLARGED PLANS & ELEVATIONS

A-411

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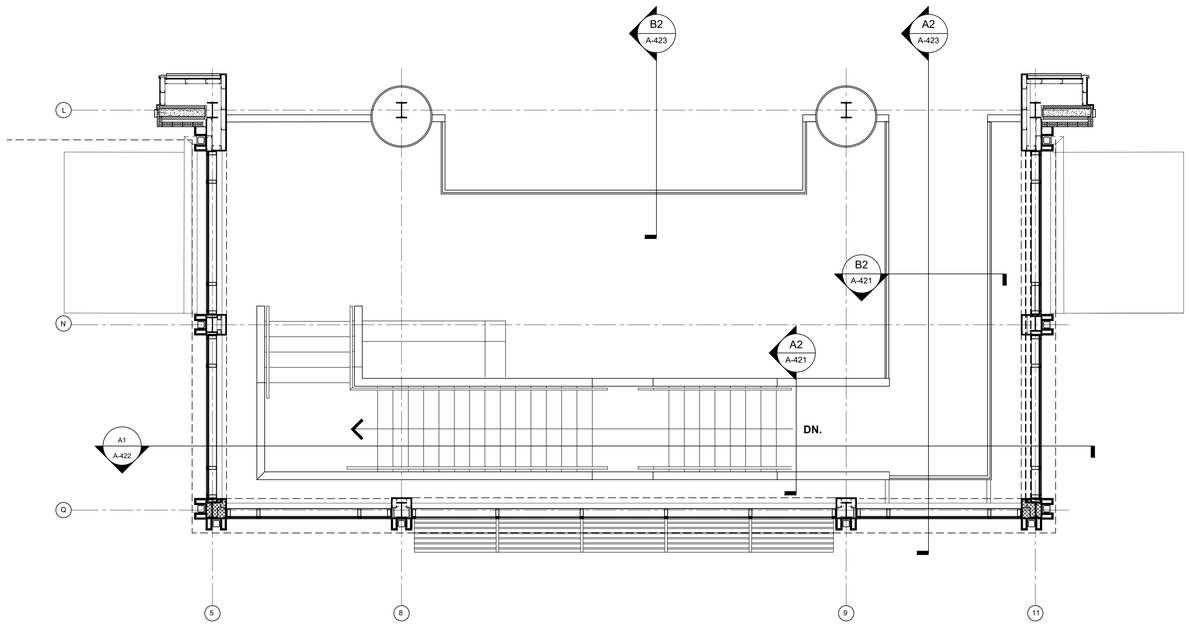
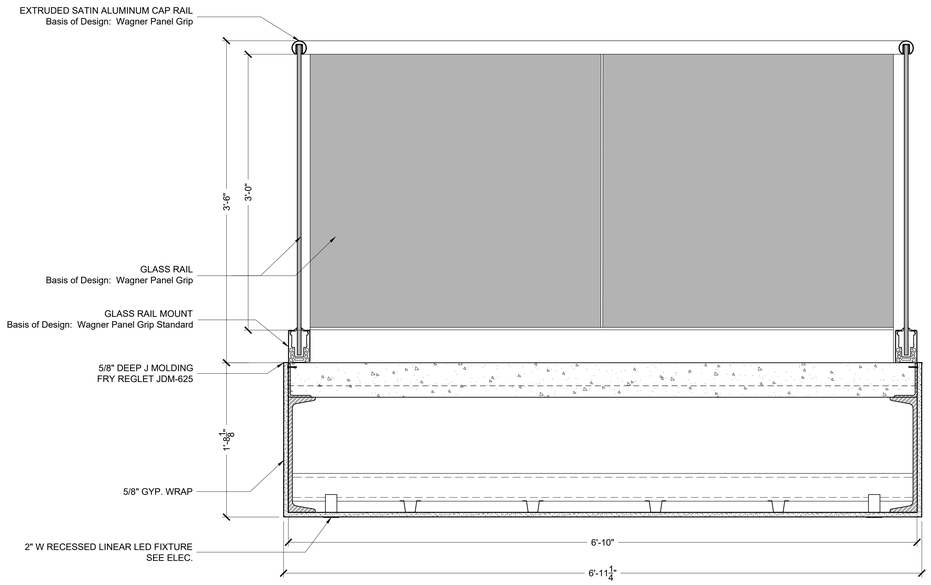
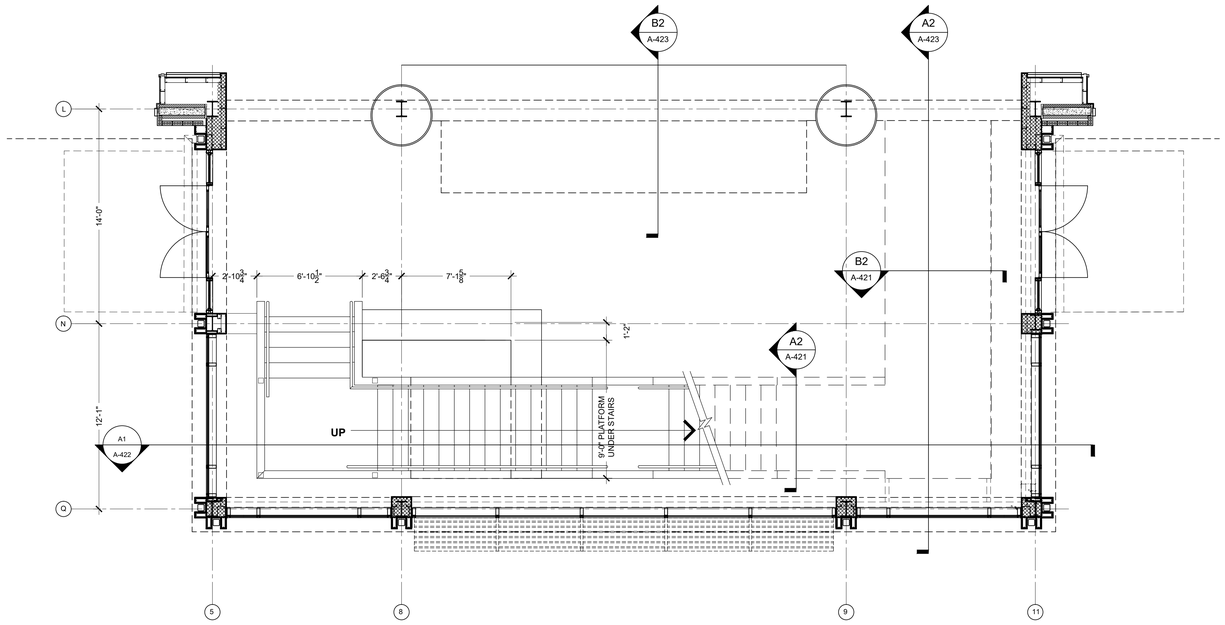


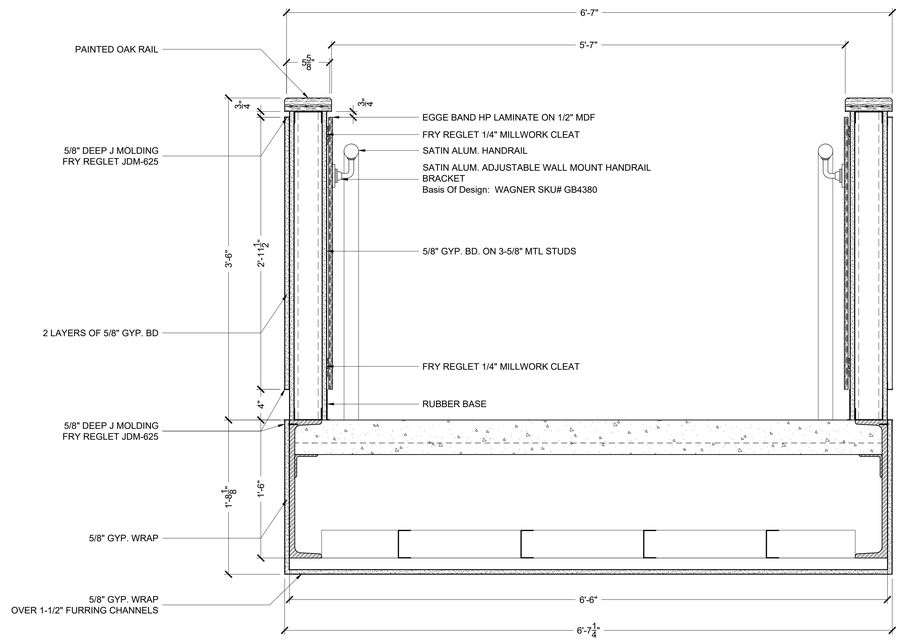
B1 100A MAIN STAIR - SECOND FLOOR PLAN
1/4" = 1'-0"



B2 100A STAIR SECTION
1-1/2" = 1'-0"



A1 100A MAIN STAIR - FIRST FLOOR PLAN
1/4" = 1'-0"



A2 100A STAIR SECTION
1-1/2" = 1'-0"

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

REVISIONS

Project Number	25004
Dated	08.29.2025

VERTICAL CIRCULATION - MAIN STAIR

A-421

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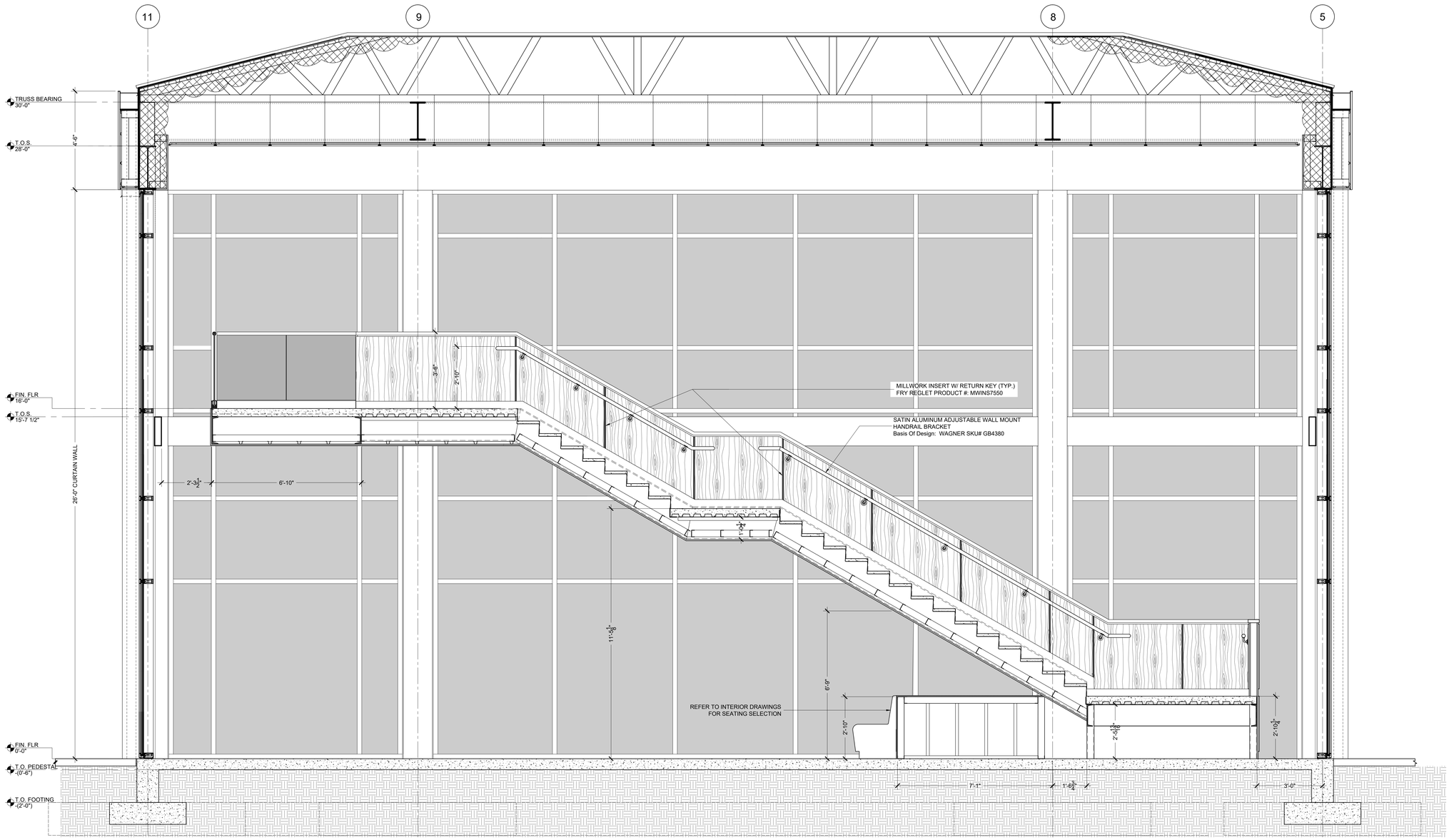

A1 STAIR 100A SECTION 1
1/2" = 1'-0"

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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REVISIONS

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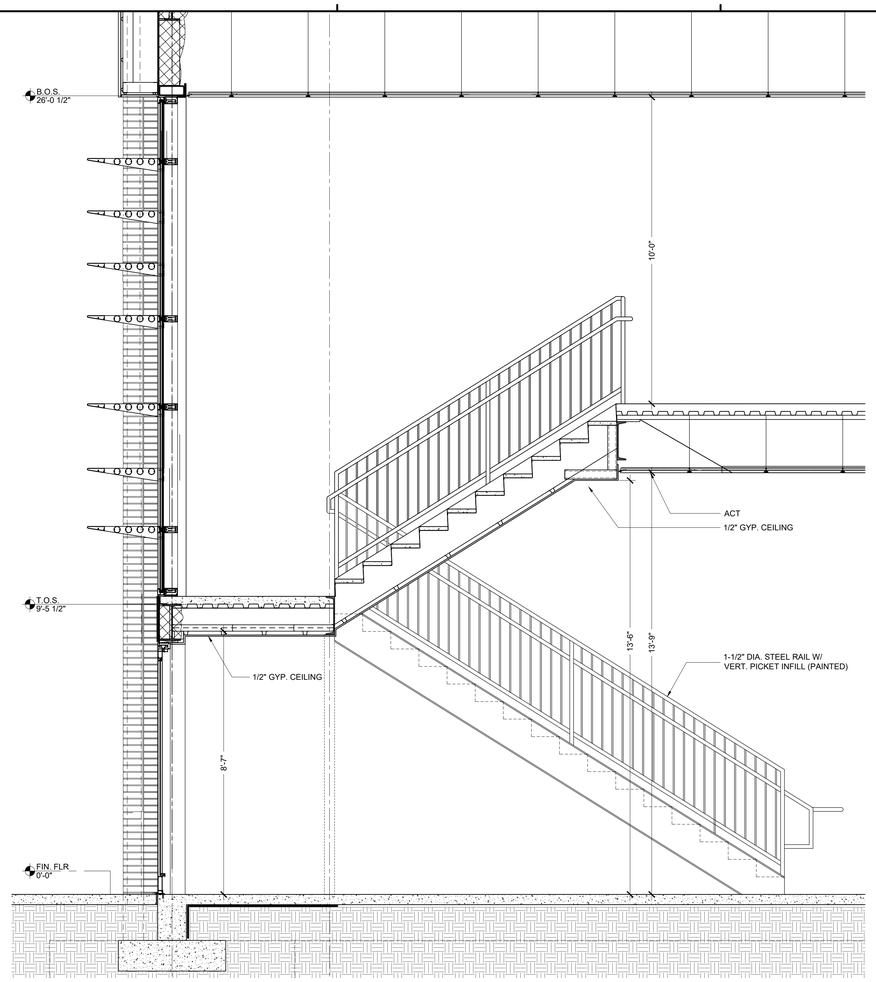
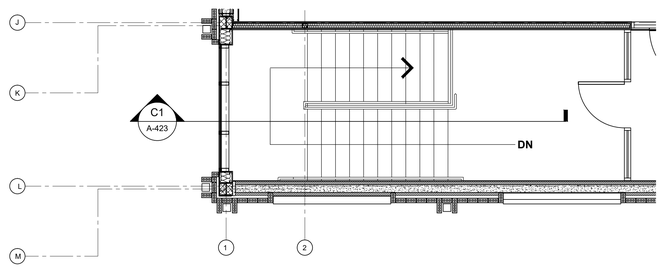
Dated	08.29.2025

VERTICAL CIRCULATION - MAIN STAIR

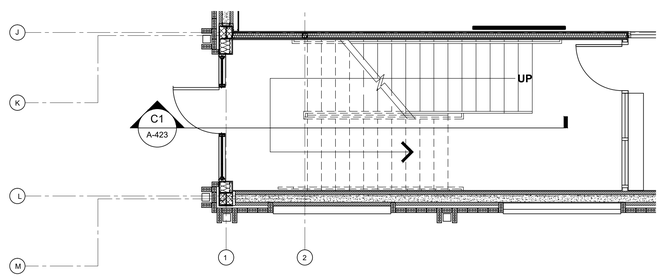
A-422



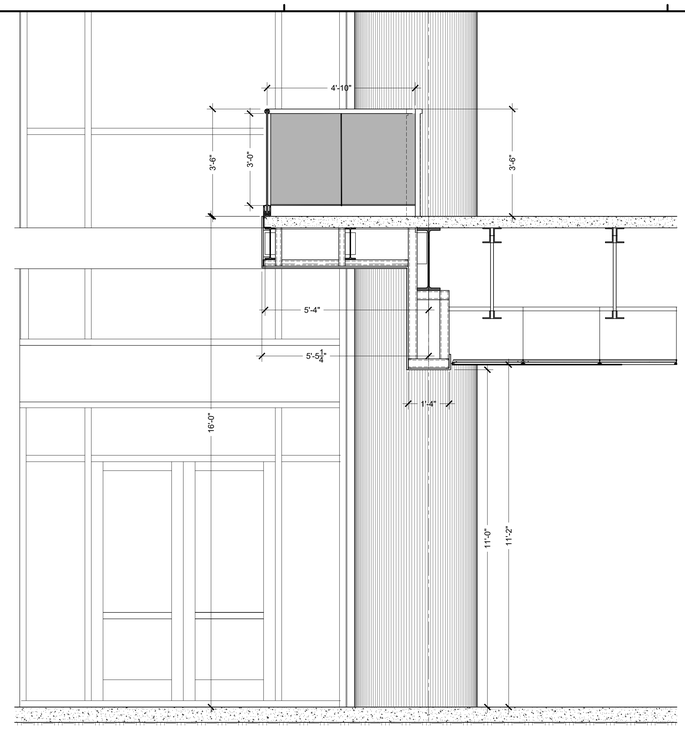
C1 STAIR 100B SECTION
1/2" = 1'-0"



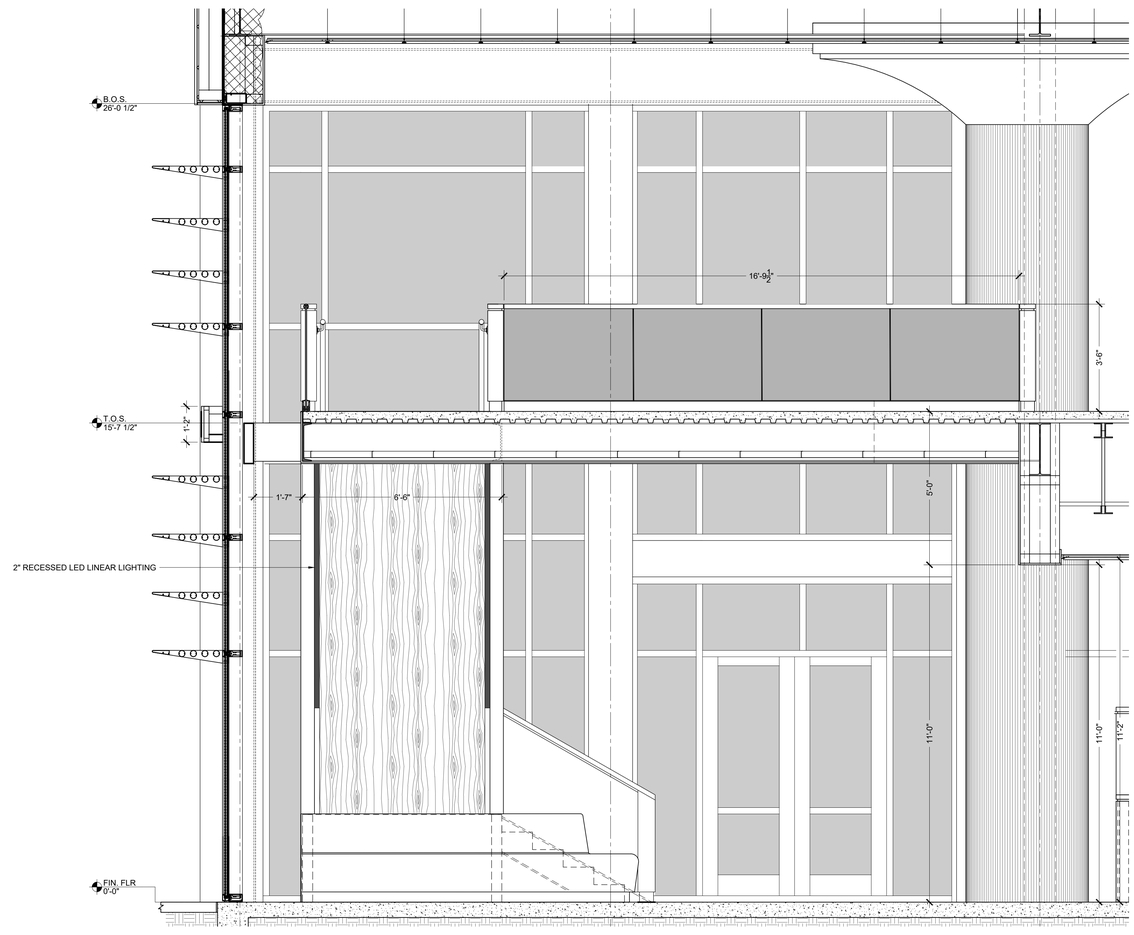
B1 100A MAIN STAIR - SECOND FLOOR PLAN
1/4" = 1'-0"



A1 100A MAIN STAIR - FIRST FLOOR PLAN
1/4" = 1'-0"



B2 COMMON SPACE 200 BALCONYSECTION
1/2" = 1'-0"



A2 100A STAIR SECTION
1/2" = 1'-0"

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AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

REVISIONS

Project Number **25004**
Dated 08.29.2025

VERTICAL CIRCULATION - STAIR

A-423

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GENERAL NOTES

ELEVATOR

1. VERIFY AND COORDINATE ALL ELEVATOR DIMENSIONS AND MINIMUM CLEAR PRE-CONSTRUCTION WALL OPENING DIMENSIONS WITH ELEVATOR MANUFACTURER REQUIREMENTS, PRIOR TO CONSTRUCTION.
2. CONTROLLER TO BE LOCATED AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
3. WALL INFILL, FROM ROUGH OPENING TO CLEAR OPENING, TO BE SELECTED BY CONTRACTOR.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

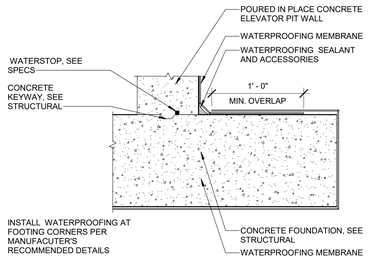
REVISIONS

NO.	DESCRIPTION	DATE

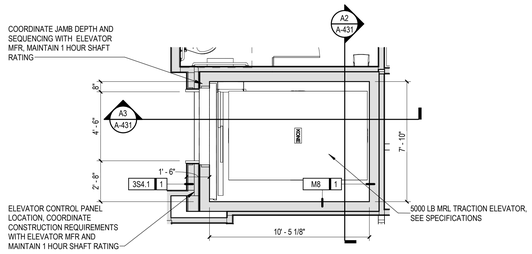
Project Number	**25004**
Dated	08.29.2025

VERTICAL CIRCULATION - ELEVATOR

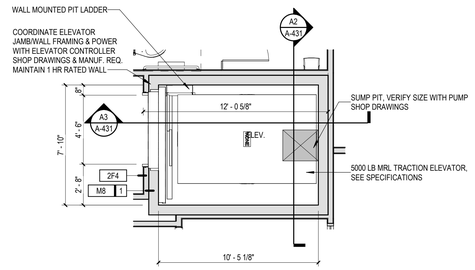
A-431



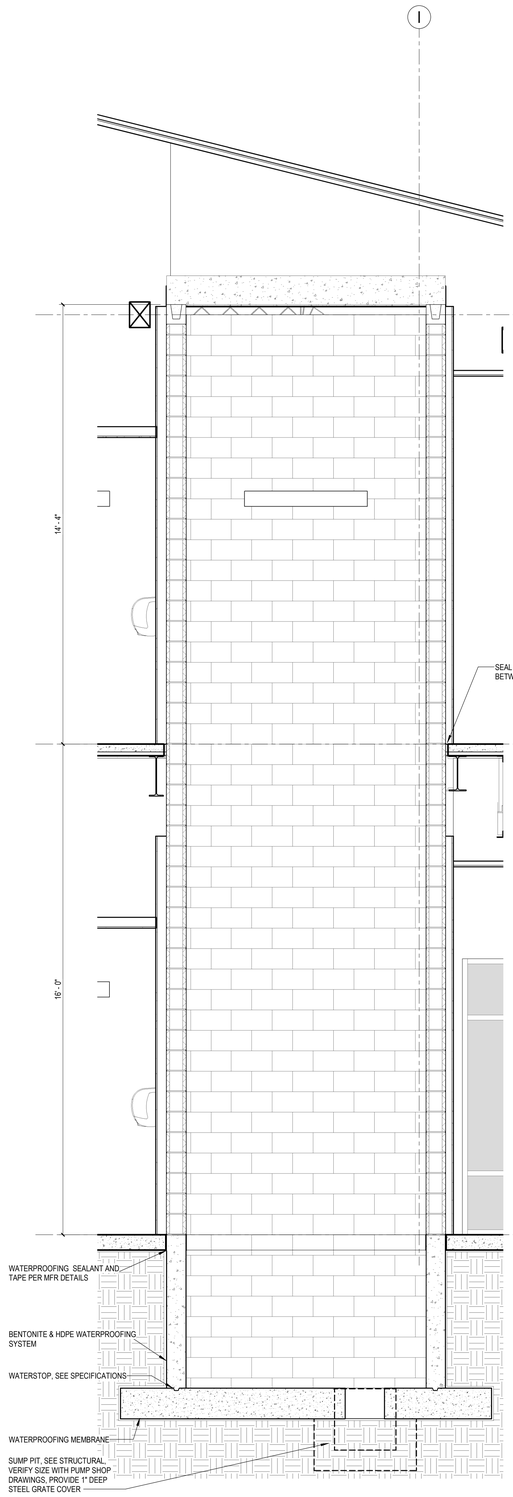
C1 ELEVATOR PIT DETAIL
1 1/2" = 1'-0"



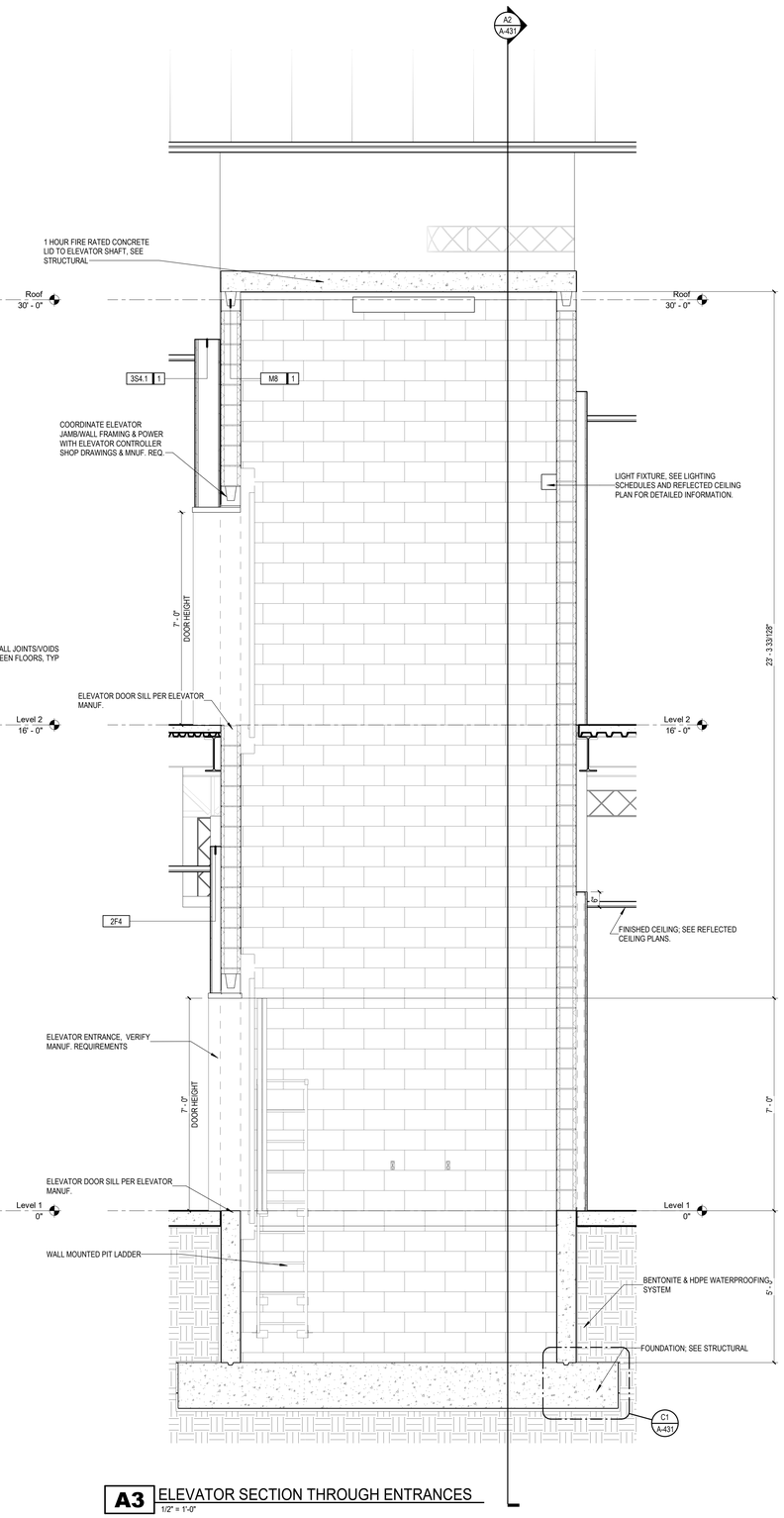
B1 2ND FLOOR PLAN ELEVATOR
1/4" = 1'-0"



A1 1ST FLOOR PLAN ELEVATOR
1/4" = 1'-0"



A2 ELEVATOR SECTION
1/2" = 1'-0"



A3 ELEVATOR SECTION THROUGH ENTRANCES
1/2" = 1'-0"

GENERAL NOTES DOORS

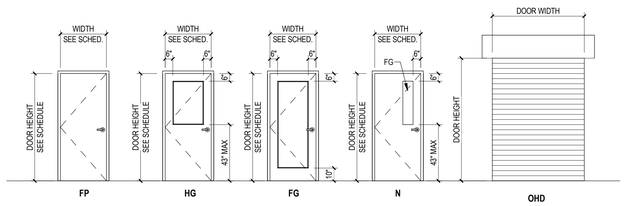
1. MATERIAL ABBREVIATIONS:
   HM = HOLLOW METAL (ALL HOLLOW METAL DOORS AND FRAMES IN EXTERIOR LOCATIONS TO BE GALVANIZED)
   STL = STEEL
   ALUM = ALUMINUM
   SCWD = SOLID CORE WOOD DOOR
   SF = ALUMINUM STOREFRONT
2. GLASS TYPE ABBREVIATIONS; REFER TO SPECIFICATIONS FOR DEFINITIONS:
   TG = TEMPERED GLASS
   FRG = FIRE RATED GLASS
   LG = LAMINATED GLASS
   XGT = INSULATED LAMINATED GLASS, TINTED
   FT = FROSTED GLASS, TEMPERED
   BR= BULLET RESISTANT
3. UNLESS NOTED OTHERWISE ALL DOORS ARE 1-3/4" THICK.
4. SEE DOOR HARDWARE SPECIFICATIONS FOR HARDWARE LOCKSET SCHEDULE.
5. EXTERIOR DOORS AND FRAMES SHALL MEET WIND LOAD REQUIREMENTS OF THE PROJECT.
6. EXTERIOR DOORS, FRAMES, GLASS, SIDELITES, AND LIGHT KITS TO BE LARGE MISSILE IMPACT RATED.
7. GLASS FOR ALL INTERIOR DOORS AND SIDELITES SHALL BE CLEAR TEMPERED, UNLESS NOTED OTHERWISE.
8. AT ALL FIRE RATED DOORS PROVIDE FIRE RATED GLAZING WITH MARKINGS AS REQUIRED.
9. HOLLOW METAL EXTERIOR DOORS AND FRAMES ARE TO BE PAINTED GALVANIZED HOLLOW METAL.
10. GROUT EXTERIOR DOOR FRAMES AT CMU WALLS.
11. ALL HOLLOW METAL FRAMES OCCURRING IN GYP. BOARD PARTITION WALLS ARE TO BE WRAP AROUND FRAMES, REGARDLESS OF WALL THICKNESS.
12. DOORS AND FRAMES AT FIRE RATED WALLS SHALL BE FIRE RATED WHETHER INDICATED OR NOT.
13. AT EXTERIOR DOORS, INSTALL SHEATHING AND FLASHING PRIOR TO INSTALLING JAMB ANCHORS.
14. AT INTERIOR DOORS, REFER TO TYPICAL INTERIOR DETAILS FOR FLOORING TRANSITIONS AT SILLS
15. SEE MECHANICAL DRAWINGS FOR DOOR UNDERCUT LOCATIONS.
16. DOOR DETAILS NOT SPECIFICALLY LISTED ARE MANUFACTURER STANDARD DETAILS.

GENERAL NOTES WINDOWS

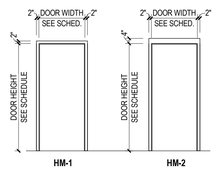
1. MATERIAL ABBREVIATIONS:
   HM = HOLLOW METAL (ALL HOLLOW METAL DOORS AND FRAMES IN EXTERIOR LOCATIONS TO BE GALVANIZED)
   SCWD = SOLID CORE WOOD DOOR
   SF = ALUMINUM STOREFRONT
2. GLASS TYPE ABBREVIATIONS; REFER TO SPECIFICATIONS FOR DEFINITIONS:
   TG = TEMPERED GLASS
   FRG = FIRE RATED GLASS
   LG = LAMINATED GLASS, CLEAR
   LGT= LAMINATED GLASS, TINTED
   XGT = INSULATED LAMINATED GLASS, TINTED
   FT = FROSTED GLASS, TEMPERED
   BR = BULLET RESISTANT
   SPR= INSULATED, LAMINATED, SPANDREL
3. EXTERIOR WINDOWS TO MEET WIND LOAD REQUIREMENTS OF THE PROJECT, INSTALL PER FL PRODUCT APPROVAL INSTRUCTIONS.
4. EXTERIOR WINDOWS, STOREFRONT, CURTAINWALL AND GLAZING TO BE LARGE MISSILE IMPACT RATED.
5. AT EXTERIOR WINDOWS INSTALL SHEATHING & FLASHING PRIOR TO INSTALLING JAMB ANCHORS.
6. REFER TO REFLECTED CEILING PLANS FOR ROLLER SHADE LOCATIONS.
7. MANUFACTURER SHALL PROVIDE ADDITIONAL REINFORCING STRUCTURE AS REQUIRED TO MEET WINDLOADS.
8. FIELD VERIFY ALL DIMENSIONS.
9. GLASS STOPS TO BE ON PUBLIC SIDE OF ALL GLAZED OPENINGS.
11. KAWNEER STOREFRONT BASIS OF DESIGN IS IR521 U.N.O.
12. KAWNEER CURTAINWALL 1600 WALL SYSTEM 1 IR IS BASIS OF DESIGN U.N.O.

DOOR SCHEDULE

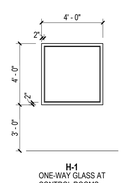
	DOOR					FRAME								
	SIZE			DOOR	DOOR	FRAME	FRAME	DETAILS			FIRE	IMPACT	HARDWARE	
DOOR NO.	LEAFS	WIDTH x HEIGHT	THICK	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	RATING	RESISTANT	SET	COMMENTS
Level 1														
100	2	6' - 0" x 8' - 0"	2"	FG	ALUM	SF-09	ALUM			A2/A-341		YES	42	
100A	2	6' - 0" x 8' - 0"	2"	FG	ALUM	SF-09	ALUM			A2/A-341		YES	1	
100B		4' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		27	
100C		3' - 0" x 7' - 10"	2"	FG	ALUM	SF-08	ALUM	D3/A-340	B3/A-340 SIM.	A2/A-341 SIM.		YES	5	
100D	2	7' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		25	
100E		3' - 0" x 7' - 0"	2"	FG	ALUM	iFR-01	ALUM				1 HR		26	
100F		3' - 0" x 8' - 0"	2"	FG	ALUM	SF-10	ALUM			A2/A-341 SIM.		YES	2	
101	2	7' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		25	
102		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-01	ALUM						16	
102A		3' - 0" x 8' - 0"	2"	FG	ALUM	SF-05	ALUM	C1/A-340 SIM.	B3/A-340 SIM.	A2/A-341 SIM.		YES	2	
102B		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-05	ALUM						17	
103		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
104		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
105		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
106		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
107		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						30	
108		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-04	ALUM						19	
108A		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-04	ALUM						20	
109		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						13	
109A		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						31	
110		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						36	
111		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						12	
112		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
113		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
114		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
115		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						38	
116		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						35	
117		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						38	
118		3' - 0" x 7' - 0"	1 3/4"	N	SCWD	HM-1	HM				1 HR		11	
118A		3' - 0" x 7' - 0"	1 3/4"	N	SCWD	HM-1	HM						11	
118B		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						43	
119		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-07	ALUM						17	
120		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-06	ALUM						17	
121		4' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						6	
121A		4' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						7	
121B		3' - 0" x 7' - 8"	1 3/4"	FP	HM	HM-2	HM	C4/A-340	B4/A-340	A4/A-340		YES	4	
122	2	6' - 0" x 7' - 8"	1 3/4"	FP	HM	HM-2	HM	C4/A-340	B4/A-340	A4/A-340		YES	3	
123		4' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		10	
124		4' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						9	
124A		8' - 0" x 8' - 0"	3"	OHD	STL	- - -	STL	C4/A-341	B4/A-341	A4/A-341			39	
124B	2	6' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						10A	
125		3' - 0" x 7' - 8"	1 3/4"	FP	HM	HM-2	HM	C4/A-340	B4/A-340	A4/A-340		YES	4	
Level 2														
200		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		33	
200A		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-10	ALUM						17	
200B		3' - 0" x 7' - 0"	2"	FG	ALUM	iFR-02	ALUM				1 HR		41	
200C	2	7' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		32	
201	2	7' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		32	
202		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-01	ALUM						16	
203		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
204		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
205		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
206		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
207		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
208		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
209		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
210		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
211		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
212		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
213		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
214		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
215		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
216		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
217		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
218		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-09	ALUM						23	
220		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						36	
221		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						36	
222		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						12	
223		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						30	
224		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						38	
225		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						34	
226		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						38	
227		3' - 0" x 7' - 0"	1 3/4"	N	SCWD	HM-1	HM				1 HR		11	
227A		3' - 0" x 7' - 0"	1 3/4"	N	SCWD	HM-1	HM						14	
227B		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						43	
228		3' - 0" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM				1 HR		9	
229		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-14	ALUM						16	
229A		3' - 6" x 7' - 0"	1 3/4"	FP	SCWD	HM-1	HM						29	
229B		4' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
229C		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						45	
229D		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						45	
229E		4' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
229F		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-15	ALUM						23	
229G		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-16	ALUM						23	
229H		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
229I		4' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
229I-A		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
229J		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						45	
229K		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						45	
229L		4' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						28	
230		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-13	ALUM						22	
230A		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-03	ALUM						18	
230B		3' - 0" x 7' - 0"	2"	FG	ALUM	iSF-02	ALUM						18	
230C		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						12	
231		4' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						8	
231B		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						15	
231C		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-11	ALUM						24	
231D		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-11	ALUM						24	
231E		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-11	ALUM						24	
231F		4' - 0" x 7' - 0"	2"	FG	ALUM	iSF-11	ALUM						24	
231G		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						44	
231G-A		3' - 0" x 7' - 0"	1 3/4"	HG	SCWD	HM-1	HM						40	



DOOR TYPES
1/4" = 1'-0"



HM FRAME TYPES
1/4" = 1'-0"



HM FRAME TYPES - WINDOWS
1/4" = 1'-0"

FIRE PROTECTION RATED GLAZING SCHEDULE

GLAZING IN DOORS, SIDE LIGHTS & TRANSOMS

DOOR FIRE RATING	VISION LITE GLASS TYPE	MARKINGS
20 MIN.	FPGL-1 (FPGL-2 at sidelites and transoms)	D-20 OR D-W-20 (D-H-20,D-H-W-20 at sidelites & transoms)
45 MIN.	FPGL-3	D-H-45 OR D-H-W-45
60 MIN.	FPGL-4	D-H-60 OR D-H-W-60
90 MIN.	FPGL-5	D-H-90 OR D-H-W-90

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
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www.dagarchitects.com

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GULF COAST STATE COLLEGE

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION DATE

Project Number 25004
Dated 08.29.2025

GCSC NURSING SIM. CENTER

DOOR AND FRAME SCHEDULE

A-601

GENERAL NOTES WINDOWS

1. MATERIAL ABBREVIATIONS:
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   BR = BULLET RESISTANT
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4. EXTERIOR WINDOWS, STOREFRONT, CURTAINWALL AND GLAZING TO BE LARGE MISSILE IMPACT RATED.
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6. REFER TO REFLECTED CEILING PLANS FOR ROLLER SHADE LOCATIONS.
7. MANUFACTURER SHALL PROVIDE ADDITIONAL REINFORCING STRUCTURE AS REQUIRED TO MEET WINDLOADS.
8. FIELD VERIFY ALL DIMENSIONS.
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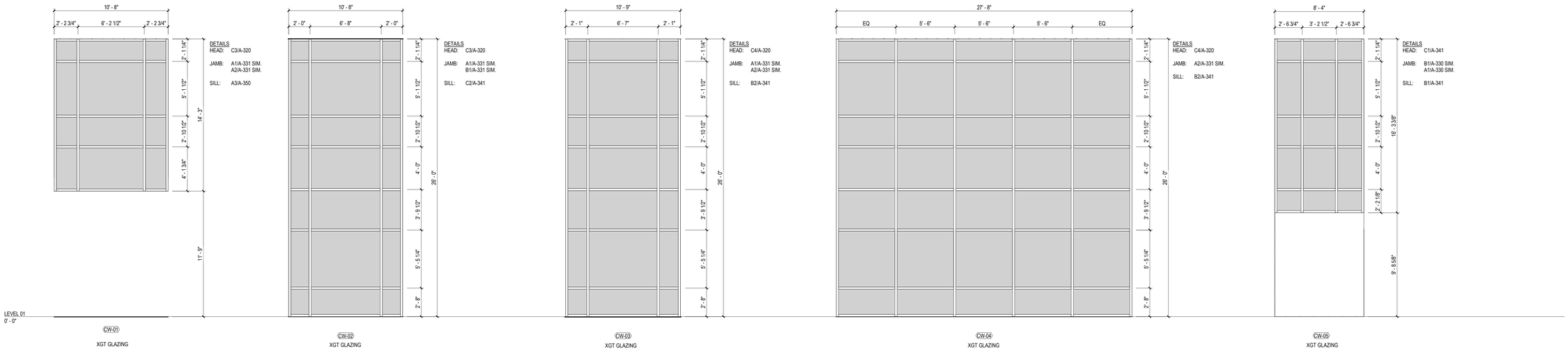
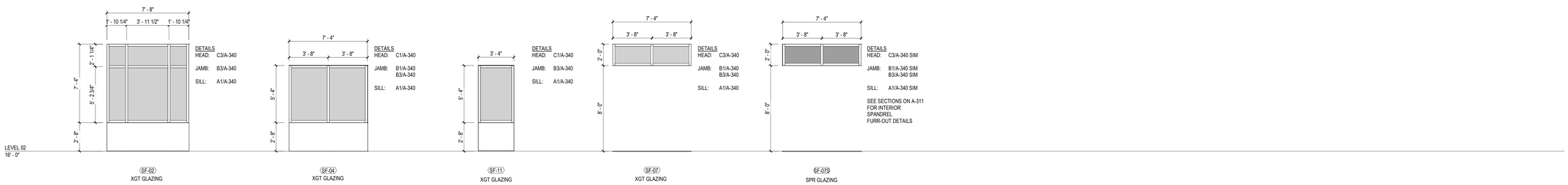
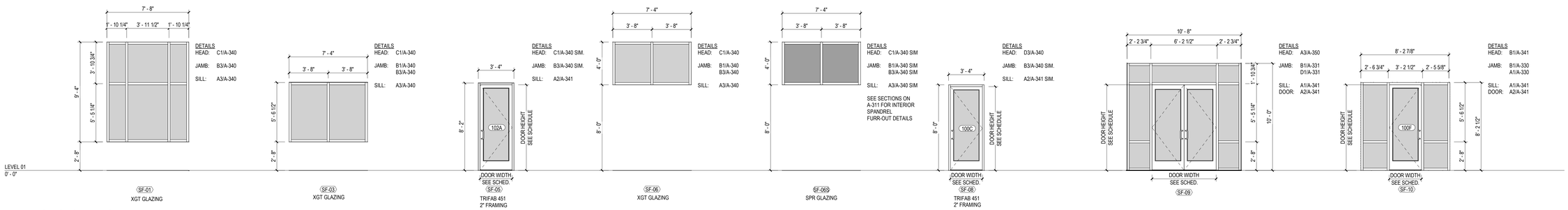
12. KAWNEER CURTAINWALL 1600 WALL SYSTEM 1 IR IS BASIS OF DESIGN U.N.O.



CURTAIN WALL TYPES
1/4" = 1'-0"





EXTERIOR STOREFRONT TYPES
1/4" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION DATE

Project Number 25004
Dated 08.29.2025

STOREFRONT AND CURTAIN WALL SCHEDULES

A-611

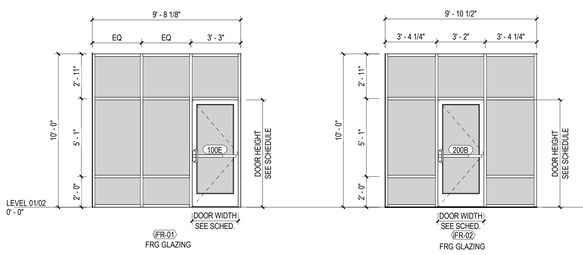
FIRE PROTECTION RATED GLAZING SCHEDULE

GLAZING IN DOORS, SIDE LIGHTS & TRANSOMS

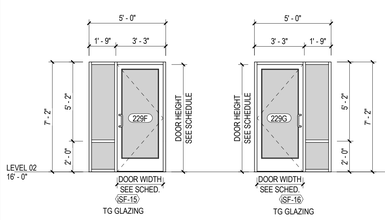
DOOR FIRE RATING	VISION LITE GLASS TYPE	MARKINGS
20 MIN.	FPGL-1 (FPGL-2 at sidelites and transoms)	D-20 OR D-W-20 (D-H-20,D-H-W-20 at sidelites & transoms)
45 MIN.	FPGL-3	D-H-45 OR D-H-W-45
60 MIN.	FPGL-4	D-H-60 OR D-H-W-60
90 MIN.	FPGL-5	D-H-90 OR D-H-W-90

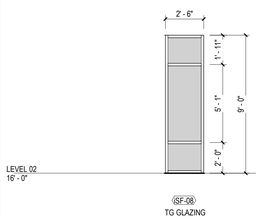
GENERAL NOTES WINDOWS

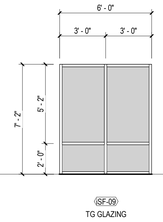
1. MATERIAL ABBREVIATIONS:
   HM = HOLLOW METAL (ALL HOLLOW METAL DOORS AND FRAMES IN EXTERIOR LOCATIONS TO BE GALVANIZED)
   SCWD = SOLID CORE WOOD DOOR
   SF = ALUMINUM STOREFRONT
2. GLASS TYPE ABBREVIATIONS; REFER TO SPECIFICATIONS FOR DEFINITIONS:
   TG = TEMPERED GLASS
   FRG = FIRE RATED GLASS
   LG = LAMINATED GLASS, CLEAR
   LGT= LAMINATED GLASS, TINTED
   XGT = INSULATED LAMINATED GLASS, TINTED
   FT = FROSTED GLASS, TEMPERED
   BR = BULLET RESISTANT
   SPR= INSULATED, LAMINATED, SPANDREL
3. EXTERIOR WINDOWS TO MEET WIND LOAD REQUIREMENTS OF THE PROJECT, INSTALL PER FL PRODUCT APPROVAL INSTRUCTIONS.
4. EXTERIOR WINDOWS, STOREFRONT, CURTAINWALL AND GLAZING TO BE LARGE MISSILE IMPACT RATED.
5. AT EXTERIOR WINDOWS INSTALL SHEATHING & FLASHING PRIOR TO INSTALLING JAMB ANCHORS.
6. REFER TO REFLECTED CEILING PLANS FOR ROLLER SHADE LOCATIONS.
7. MANUFACTURER SHALL PROVIDE ADDITIONAL REINFORCING STRUCTURE AS REQUIRED TO MEET WINDLOADS.
8. FIELD VERIFY ALL DIMENSIONS.
9. GLASS STOPS TO BE ON PUBLIC SIDE OF ALL GLAZED OPENINGS.
11. KAWNEER STOREFRONT BASIS OF DESIGN IS IR521 U.N.O.
12. KAWNEER CURTAINWALL 1600 WALL SYSTEM 1 IR IS BASIS OF DESIGN U.N.O.

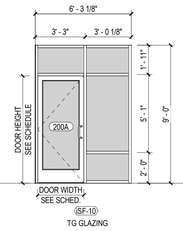


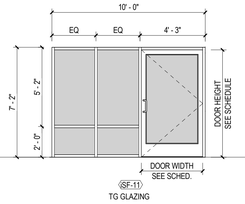
FIRE RATED STOREFRONT TYPES
1/4" = 1'-0"

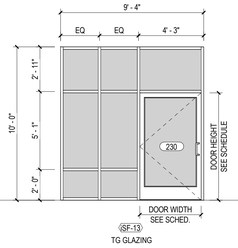


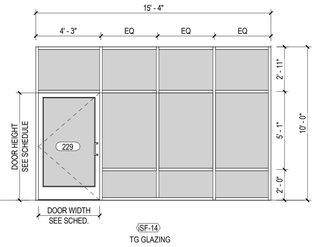


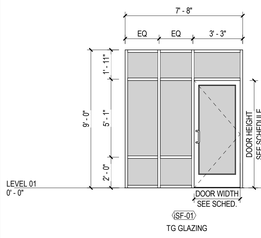


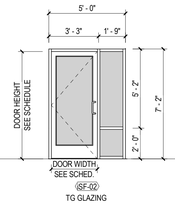


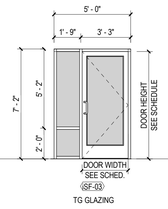


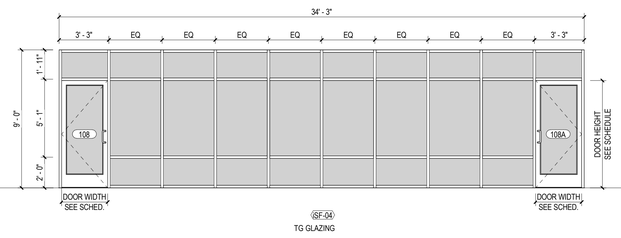


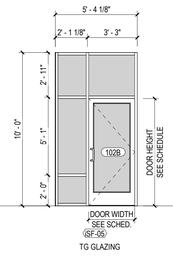


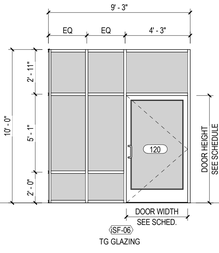


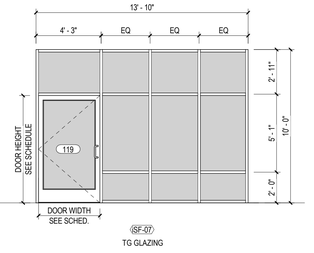












INTERIOR STOREFRONT TYPES
1/4" = 1'-0"

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INTERIOR STOREFRONT SCHEDULE

A-612

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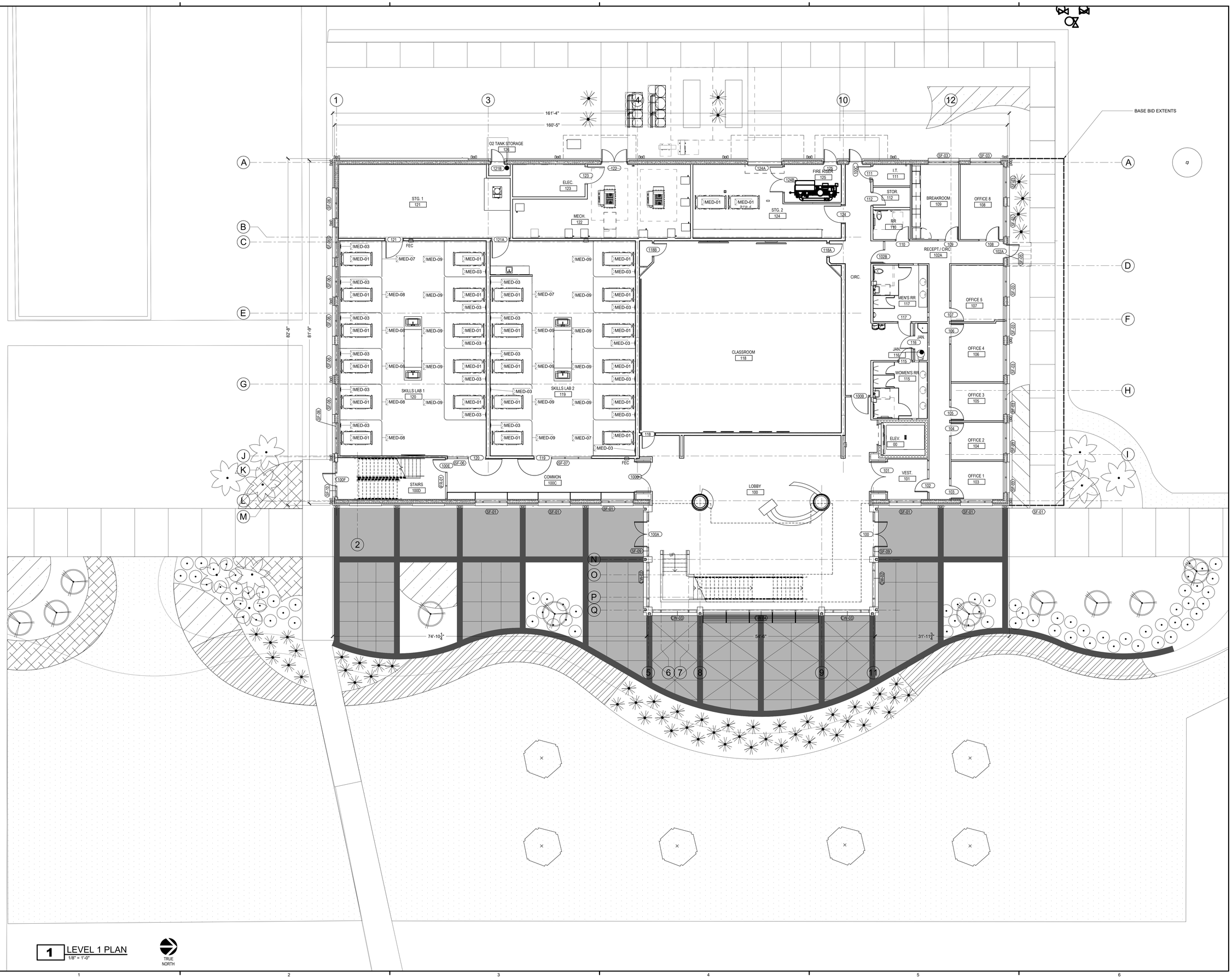

1 LEVEL 1 PLAN
1/8" = 1'-0"

TRUE NORTH

DAG Architects
AR0017640
455 Harrison Avenue
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Panama City, Florida 32401
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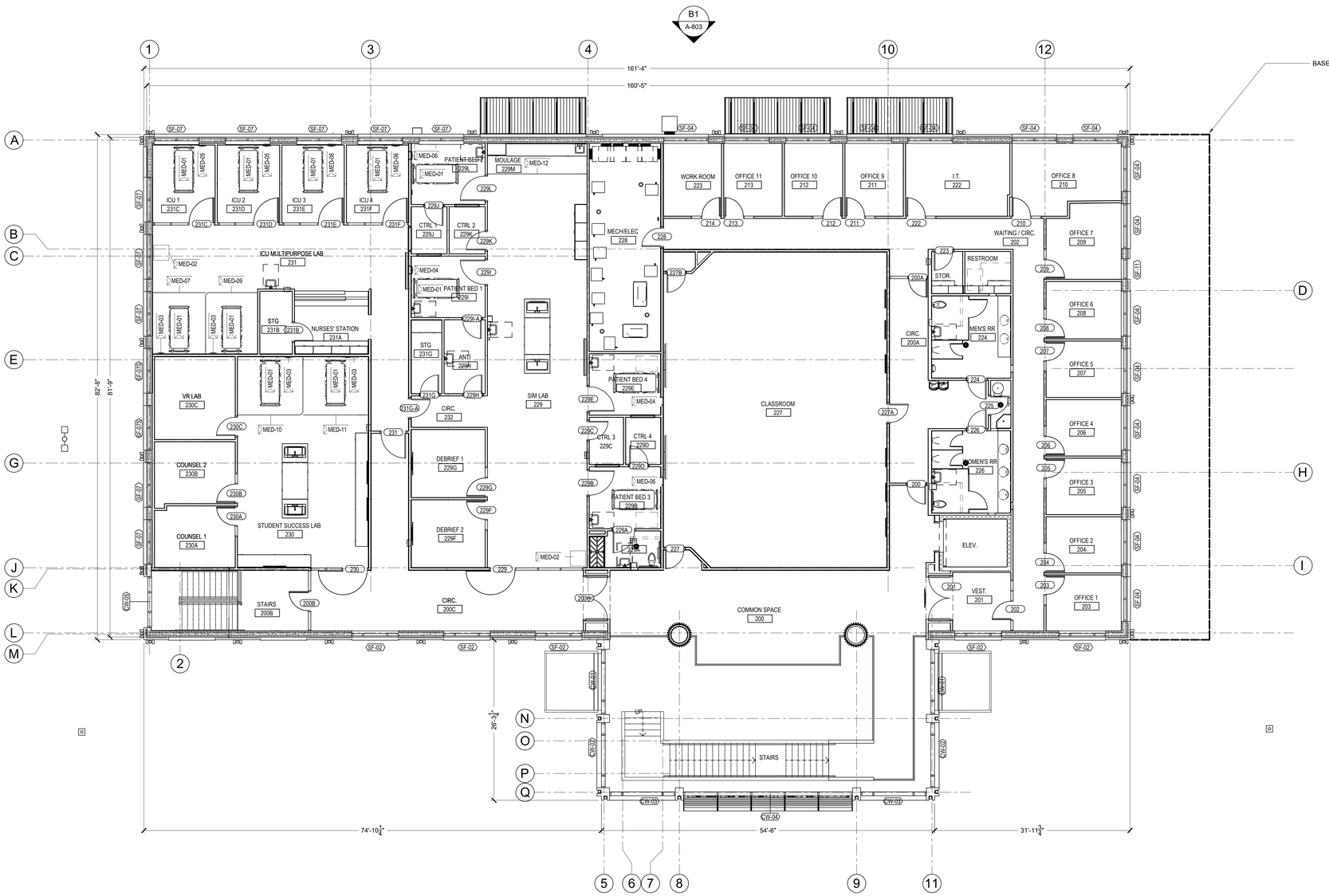
ALTERNATE # 4
LEVEL 1 PLAN

A-801



1 LEVEL 2 PLAN
1/8" = 1'-0"

TRUE NORTH

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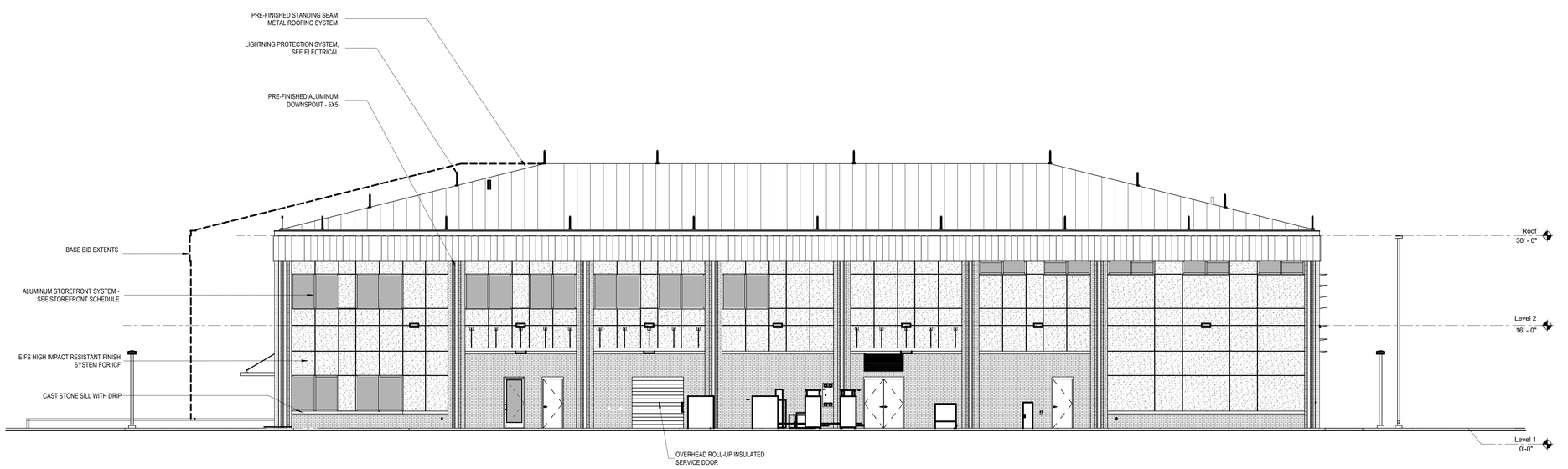
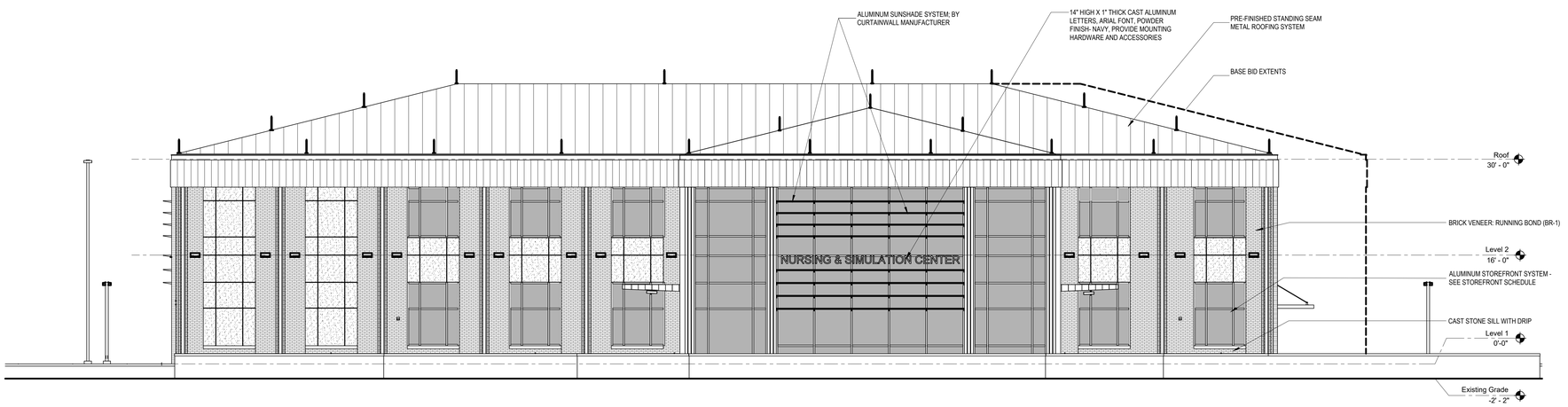
ALTERNATE #4
LEVEL 2 PLAN

A-802



B1 WEST ELEVATION
1/8" = 1'-0"



A1 EAST ELEVATION
1/8" = 1'-0"

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ALTERNATE #4
EXTERIOR ELEVATIONS

A-803

PROJECT DESIGNER - INTERIORS

HLG STUDIO
1401 PEACHTREE STREET, NE
SUITE 200
ATLANTA, GA 30309
404.760.7788 MAIN

DEANNA HARRIS
DHARRIS@HLGSTUDIO.COM
404.978.1250

STELLA PIERSON
SPIERSON@HLGSTUDIO.COM
404.760.7745

CONTRACTOR SHALL ASSURE ALL FINISH MATERIALS, DELIVERY AND INSTALLATION MATERIALS/ METHODS COMPLY WITH SPECIFIED FINISH MANUFACTURER'S GUIDELINES AND MEET ALL REQUIRED ASTM/ANSI CODES FOR HEALHCARE OCCUPANCY.

GENERAL FINISH NOTES

1. DO NOT SCALE DRAWINGS.
2. THE PROJECT MANAGER CERTIFIES THAT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THESE DOCUMENTS HAVE BEEN PREPARED IN CONFORMITY WITH THE GEORGIA ACCESSIBILITY CODE.
3. THESE DOCUMENTS ARE THE GRAPHIC AND PICTORIAL TOOL FOR ASSISTING THE GENERAL CONTRACTOR IN HIS PRICING PROCESS. THE PROJECT MANAGER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS, AND/OR OMISSIONS IN THE GENERAL CONTRACTOR'S BID. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PERFORM AN ON-SITE INSPECTION TO COVER ANY ITEMS NOT INDICATED IN THESE DOCUMENTS AND SHALL NOTIFY THE PROJECT MANAGER AT ONCE OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED PRIOR TO SUBMISSION OF SCHEMATIC DESIGN PRICING.
4. THESE DOCUMENTS INDICATE MATERIALS AND METHODS OF INTERIOR CONSTRUCTION TO SET STANDARDS OF QUALITY AND/OR PERFORMANCE. OTHER MATERIALS AND/OR METHODS WILL BE CONSIDERED BY THE PROJECT MANAGER FOR ACCEPTANCE, PROVIDED THEY DO NOT ALTER THE VISIBLE APPEARANCE AND PERFORMANCE ORIGINALLY INTENDED.
5. ALL CONTRACTORS SHALL CARRY ADEQUATE LIABILITY INSURANCE AS MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS, PROJECT AND BUILDING, ETC., FROM LOSS OR DAMAGE BY FIRE, THEFT, ETC., AS REQUIRED BY OWNER.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS, INSPECTION CERTIFICATES, AND HEALTH DEPARTMENT APPROVALS AS REQUIRED BY THE OWNER.
7. THE PROJECT MANAGER HAS NOT CONDUCTED ANY INVESTIGATION AS TO THE PRESENCE OF ASBESTOS OR ANY OTHER HAZARDOUS SUBSTANCES ON THE PROJECT SITE AND ASSUMES NO RESPONSIBILITY WITH RESPECT TO THE SAME. NO PRODUCTS CONTAINING ASBESTOS OR UREA FORMALDEHYDE WILL BE ACCEPTED.
8. DISPOSAL OF ALL CHEMICALS MUST BE DONE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES.
9. THE EXTENT OF WORK SHALL BE LIMITED TO THAT INDICATED IN THE CONTRACT DOCUMENTS. NO ADDITIONAL WORK SHALL BE DONE WITHOUT WRITTEN APPROVAL. ANY ADDITIONAL WORK PERFORMED WITHOUT CONSENT SHALL BE DONE AT THE GENERAL CONTRACTOR'S EXPENSE.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH THE OWNER AND COMPLYING WITH THE OWNER'S RULES AND REGULATIONS. NOTIFY THE PROJECT MANAGER OF ANY CONFLICTS.
11. UPON AWARDING CONTRACTS TO SUBCONTRACTORS, THE GENERAL CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER A SCHEDULE FOR ALL LONG LEAD TIME ITEMS ON THE PROJECT (I.E. MATERIALS, HARDWARE, FINISHES, ETC.) AND SHALL BE RESPONSIBLE FOR NOTIFYING THE PROJECT MANAGER AND OWNER AS TO ANY ITEM WHICH MAY CAUSE THE PROJECT TO BE DELAYED, PRIOR TO ORDERING THAT ITEM.
12. FIELD CHANGES REQUESTED BY THE OWNER MUST BE REVIEWED, PRICED AND APPROVED BY THE OWNER/PROJECT MANAGER PRIOR TO IMPLEMENTATION. CONTRACTOR SHALL INDICATE HOW CHANGES WILL AFFECT THE COMPLETION DATE WITH SUBMISSION OF CHANGE ORDER PRICING.
13. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING AND SECURING OF WORK TO STRUCTURE ABOVE CEILING, INTERIOR PARTITIONS, GLASS WALLS, ETC., AND SHALL BE TOTALLY RESPONSIBLE FOR THE SECURITY OF THAT PORTION OF WORK.
14. THE GENERAL CONTRACTOR, DURING AND AT THE COMPLETION OF THE WORK, SHALL LEAVE ALL OCCUPIED, AND WORK AREAS AND FINISHED SPACE IN A CLEAN AND ACCEPTABLE CONDITION CLEAR OF MATERIALS. FINAL CLEAN UP INCLUDES THE INTERIOR OF WINDOWS, MULLIONS AND SILLS, BLINDS, LIGHT FIXTURES, AND DOORS.
15. CONTRACTOR IS TO PROVIDE ALL CERTIFICATES OF OCCUPANCY PERMITS TO OWNER AT COMPLETION OF PROJECT.
16. REFERENCE PROJECT DOCUMENTS FOR COMPLETE FINISH MATERIAL SPECIFICATIONS, INSTALLATION PROCEDURES AND PROJECT REQUIREMENTS.
17. THE FOLLOWING GENERAL FINISH APPLICATION NOTES ARE IN ADDITION TO THE SPECIFICATIONS AS OUTLINED IN THE CONTRACT DOCUMENTS. IN CASE OF CONFLICT, CONTACT THE PROJECT MANAGER FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
18. CONSULT THE PROJECT MANAGER FOR ANY QUESTIONS OR DISCREPANCIES THAT OCCUR OR FOR CLARIFICATIONS OF LAYOUT/PLANS SHOWN AND CORRESPONDING FINISH PLANS OR SCHEDULES. NOTIFY THE PROJECT MANAGER OF ANY PARTITIONS, DOOR LOCATIONS, MILLWORK CONFIGURATIONS, FIXTURE OR SPACE LAYOUTS, ETC., WHICH IN ACTUALITY DO NOT CORRESPOND TO THOSE SHOWN ON DRAWINGS OR IN FINISH SCHEDULE.
19. ALL FINISHES REQUIRED OF THE PROJECT MANAGER ARE INCLUDED HEREIN. SHOULD THERE BE ANY DISCREPANCIES, DISCONTINUED OR DELAYED MATERIALS, THE PROJECT MANAGER IS TO BE NOTIFIED IMMEDIATELY AND CONSULTED BEFORE PROCEEDING. NO SUBSTITUTIONS OF MATERIALS WILL BE ACCEPTED WITHOUT THE PROJECT MANAGER'S APPROVAL.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SAMPLES AS OUTLINED IN THE SPECIFICATIONS. ANY WORK DONE WITHOUT SAMPLE SUBMITTAL AND APPROVAL OF SAMPLE WHERE REQUESTED, IS SUBJECT TO FINISH REJECTION BY THE PROJECT MANAGER.
21. ALL SURFACES TO RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH, CLEAN AND FREE OF DEFECTS. SURFACES NOT MEETING THE FINISH MANUFACTURER'S SUBSTRATE REQUIREMENTS SHALL BE REPAIRED OR BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR/PROJECT MANAGER TO HAVE SURFACES CORRECTED PRIOR TO BEGINNING FINISH APPLICATION.
22. FOR CLARIFICATION OF FINISH APPLICATION WHERE MILLWORK OR SPECIAL FINISH TREATMENTS OCCUR, REFERENCE THE REMARK INDICATED ON THE FINISH DRAWINGS.
23. AT EXISTING WAITING AREAS BECOMING NEW CLINICAL SPACE, EXISTING FLOORING, EPOXY SUBFLOOR AND SUBSTRATE MUST BE DEMOLISHED AND SUBFLOOR SHOT BLASTED AND PRIMED. PROVIDE SELF LEVELER AND ALLOW ADEQUATE DRY TIME PRIOR TO FLOORING INSTALLATION.

FLOORING

1. ALL SURFACES TO RECEIVE FLOORCOVERING SHALL BE SMOOTH, EVEN AND FREE OF DEFECTS. SURFACES NOT MEETING SUBSTRATE CONDITIONS SHALL BE REPAIRED OR BROUGHT TO BE ATTENTION OF THE PROJECT MANAGER.
2. INSTALL ALL FLOORING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO SUBMIT ACTUAL SAMPLE OF ALL FLOORING SPECIFIED TO THE PROJECT MANAGER FOR COLORATION APPROVAL PRIOR TO INSTALLATION.
3. INSTALL CARPET WITH NAP RUNNING SAME DIRECTION, UNLESS OTHERWISE SPECIFIED. SUBMIT SEAMING DIAGRAM TO PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION.
4. CARPET TILE SHALL BE INSTALLED UTILIZING MANUFACTURER'S RECOMMENDED INSTRUCTIONS FOR HIGH TRAFFIC AREAS. UTILIZE ADHESIVE TYPE AS RECOMMENDED BY CARPET MANUFACTURER.
5. CARPET OR OTHER FLOORCOVERING TRANSITIONS TO OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION. FLOORING MATERIAL CHANGES ARE TO BE HANDLED WITH THE USE OF A TRANSITION STRIP OR THRESHOLD, AS REQUIRED BY INSTALLATION CONDITION.
6. INSTALL RESILIENT GLUE-DOWN CARPET EDGE, AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT/DISSIMILAR FLOORING. PROVIDE JOHNSONITE, RESILIENT TRANSITION STRIP, IN PROFILE TO COORDINATE WITH FIELD CONDITIONS, IN COLOR TO MATCH RUBBER BASE (B-1).
7. INSTALL RUBBER BASE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE UPGRADE RUBBER BASE IN ALL AREAS, UNLESS OTHERWISE DESIGNATED. MITER INSIDE AND OUTSIDE CORNERS. PROVIDE WRAPPED EXTERNAL CORNERS AT ALL CORNERS WHERE COVE BASE IS INSTALLED, EXCEPT AT ALL CORNER GUARD LOCATIONS. AT CORNER GUARDS, SCORE BACK OF RUBBER COVE BASE/ MITER UPGRADE BASE AND INSTALL RUBBER BASE CONTINUOUS AROUND FACE OF CORNER GUARD RETAINER. ASSURE BASE INSTALLATION CONCEALS RETAINER FROM VIEW. RUBBER BASE SECTIONS LESS THAN 12" IN LENGTH ARE NOT ACCEPTABLE.
8. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FLASH COVE/RUBBER BASE AT ALL MILLWORK TOE KICKS AND OWNER PROVIDED CASEWORK, REGARDLESS OF SCHEDULE FOR INSTALL OF SUCH. COORDINATE BASE INSTALLATION SCHEDULE WITH INSTALLATION OF ALL ITEMS REQUIRING BASE FINISH TO ASSURE PROPER SEQUENCING OF WORK.
9. BUTT VINYL TILES/SHEET VINYL TIGHTLY TO ADJACENT VERTICAL SURFACES, THRESHOLDS, NOSINGS AND EDGINGS. SCRIBE AROUND OBSTRUCTIONS. EXTEND FLOORING INTO TOE SPACES, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS.
10. INSTALL VINYL TILES/SHEET VINYL SO THAT GRAINING RUNS IN THE SAME DIRECTION. MATCH TILES FOR COLOR AND PATTERN BY USING TILES FROM CARTONS IN THE SAME SEQUENCE AS MANUFACTURED AND PACKAGED.
11. DISCOLORED, CHIPPED OR CRACKED TILE WILL NOT BE ACCEPTED. CUT FLOORING NEATLY TO AND AROUND ALL FIXTURES.
12. FLOORING SUBCONTRACTOR TO SUBMIT LAYOUTS OF CARPET, LVT AND SHEET VINYL PATTERNS AS INDICATED IN THE DOCUMENTS. SUBMITTAL SHALL INDICATE EXACT FIELD DIMENSIONS AND CONDITIONS, TILE GRAIN DIRECTIONS, AND CUT TILE SIZES AND LOCATIONS. CARPET/VCT CUTS OF LESS THAN 6" WILL NOT BE ACCEPTABLE, UNLESS PATTERN DICTATES, AND CUT SIZE IS CLEARLY INDICATED ON SUBMITTAL.
13. ALL SHEET VINYL FLOORING IS TO BE INSTALLED SO THAT THE LONGEST PIECE OF RUNNING PRODUCT AVAILABLE IS UTILIZED. NO "HEAD TO HEAD" SEAMS ARE ACCEPTABLE.
14. WHERE SCHEDULED, PROVIDE 6" HIGH SHEET VINYL BASE, WITH HIGH QUALITY HEAT WELDED SEAMS, SELF-FLASH COVED WITH BRUSHED ALUMINUM TRIM CAP. ASSURE THAT "BUTTERFLY" CUT CORNERS ARE PROVIDED, WITH HEAT WELDED SEAMS AT ALL INSIDE AND OUTSIDE CORNERS.
15. AT ALL RESILIENT FLOORING LOCATIONS, PROVIDE CAULK TO MATCH FLOORING COLOR TO TRANSITION JOINTS FROM DOOR JAMB TO FLOORING ADJACENT.
16. PRIOR TO INSTALLATION OF NEW FLOORING MATERIALS, CONTRACTOR SHALL SECURE THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PERFORM RELATIVE HUMIDITY TESTS ON THE EXISTING SLAB PER ASTM TESTING REQUIREMENTS ((3) TESTS PER FIRST 1000 SF, (1) TEST PER EACH ADDITIONAL 1000 SF.) RESULTS ARE TO BE REVIEWED AND APPROVED BY THE HOSPITAL AND INTERIOR DESIGNER PRIOR TO INSTALLATION OF THE NEW FLOORING. THE COST FOR TESTING SHALL BE IN THE CONTRACTOR'S BID COST.
17. IF REMEDIATION IS REQUIRED, THIS COST WILL BE EXCLUSIVE OF BASE BID COST AND DEPENDENT ON THE SCOPE NECESSARY TO OBTAIN A SUBSTRATE VIABLE FOR NEW FLOORING MATERIAL INSTALLATION. FOR THE PURPOSES OF SCHEMATIC DESIGN PRICING, CONTRACTOR TO ASSUME THAT ALL FLOORING SUBSTRATES WILL REQUIRE REMEDIATION AND SET AN ALLOWANCE FOR SUCH.
18. THE FLOORING INSTALLER SHALL COORDINATE WITH THE ENVIRONMENTAL SERVICES DEPARTMENT TO ASSURE THAT THE PROPER MAINTENANCE IS UTILIZED AND APPLIED IN A MANNER THAT ACCOMMODATES FUTURE HOSPITAL MAINTENANCE. THE SUBCONTRACTOR'S INTENT SHALL BE THAT THE OWNER INCURS ONE COST FOR INITIAL FLOORING MAINTENANCE, PRIOR TO "TURN-OVER" TO THE OWNER. IT IS ALSO THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ASSURE THAT THE MANUFACTURER'S WARRANTY IS UPHELD DURING THE INITIAL MAINTENANCE EXERCISE.
19. AT TIME OF SUBSTANTIAL COMPLETION, PRIOR TO FINAL ACCEPTANCE, ALL NEW RESILIENT FLOORING SHALL BE THOROUGHLY CLEANED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THE OWNER'S REQUEST.

WOODWORK GENERAL NOTES

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ARCHITECTURAL WOODWORK. INCLUDE CUT SHEETS FOR APPROVAL FOR ALL HARDWARE TO BE SUPPLIED. SHOW CONSTRUCTION GRADE, INTENDED FINISH, DESIGN AND CONSTRUCTION DETAILS.
2. **QUALITY STANDARDS FOR ARCHITECTURAL WOODWORK SHALL COMPLY WITH AWI STANDARDS, LATEST EDITION.**
3. ALL STAINED FINISH CARPENTRY AND STANDING AND RUNNING TRIM WORK SHALL BE PROVIDED BY A COMMERCIAL INTERIORS MILLWORK SUBCONTRACTOR WITH A MINIMUM OF 5 YEARS EXPERIENCE IN WOODWORK FABRICATION OF SIMILAR SCOPE AND QUALITY TO THAT SHOWN IN THESE DOCUMENTS.
4. PLASTIC LAMINATE AND VENEER MILLWORK SHALL BE AS SPECIFIED BY ARCHITECT. REFER TO FINISH MATERIAL LEGEND FOR MORE INFORMATION ON PLASTIC LAMINATE COLORS AND WOOD VENEER STAINS.
5. PLASTIC LAMINATE MILLWORK SHALL BE AWI PREMIUM GRADE.
6. STAINED SOLID STOCK SHALL BE AWI SHOP FINISHED PREMIUM GRADE. STAIN COLOR SHALL BE SUBMITTED TO AND APPROVED BY THE INTERIOR DESIGNER.
7. STAINED MILLWORK SHALL BE AWI SHOP FINISHED PREMIUM QUALITY GRADE, SELECT VENEERS ON 3/4" FIRE RETARDANT MDF OR PLYWOOD AS SPECIFIED. VENEER SHALL BE AS SPECIFIED IN DOCUMENTS, BOOK MATCHED AND SEQUENCED. FINISH SHALL BE SUBMITTED TO AND APPROVED BY THE INTERIOR DESIGNER.
8. FINISHED WOODWORK SHALL BE SHOP FINISHED WITH AWI FINISH CATALYZED CONVERSION VARNISH, PREMIUM QUALITY. SHEEN FINISH SHALL BE SATIN, AND MATCH SAMPLE SUBMITTED TO AND APPROVED BY INTERIOR DESIGNER.
9. SUBMIT THREE (3) FINISH SAMPLES OF EACH STAIN TYPE SPECIFIED ON ACTUAL WOOD SUBSTRATE FOR APPROVAL BY INTERIOR DESIGNER
10. PLASTIC GROMMET INSERTS AT COUNTERTOPS TO BE FIELD INSTALLED PER OWNER DIRECTION. ASSURE (1) GROMMET AT EACH POWER/DATA OUTLET LOCATION, OR EVERY 4'-0". COLOR TO MATCH COUNTERTOP COLOR.
11. PLASTIC LAMINATE MILLWORK SHALL BE AWI PREMIUM GRADE. UTILIZE 2MM PVC EDGE BANDING AT ALL PLASTIC LAMINATE DOOR AND DRAWER EDGES.
12. ALL CABINETS TO BE PLASTIC LAMINATE, WITH ADJUSTABLE SHELVES, UNLESS OTHERWISE NOTED.
13. CONTRACTOR TO COORDINATE ALL CABINET DIMENSIONS WITH EQUIPMENT. SEE EQUIPMENT DRAWINGS.
14. ALL SOLID SURFACE/QUARTZ COUNTERTOPS AND WORKSURFACES TO HAVE EASED EDGES.
15. AT ALL QUARTZ COUNTERTOPS, ALL OUTSIDE CORNERS TO RECEIVE MITERED CUTS.
16. ALL COUNTERTOPS/BACKSPLASHES TO BE SOLID SURFACE, UNLESS OTHERWISE NOTED.
17. CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3", UNO.
18. PROVIDE FILLER PANELS TO FINISH OUT CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS. MAXIMUM FILLER WIDTH IS 1", UNLESS SPECIAL CONDITIONS APPLY.
19. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS AT CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
20. PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS.
21. PROVIDE WALL BRACKET SUPPORTS AT 36" O.C. MAXIMUM TO SUPPORT CONTINUOUS COUNTERTOPS WHERE BASE CABINETS ARE NOT PROVIDED FOR SUPPORT.
22. ALL COUNTERTOP SUPPORT BRACKETS TO EXTEND TO FLOOR UTILIZING CLEAR ACCESS PLASTIC LAMINATE SUPPORT PANELS, UNO.
23. PROVIDE END SPLASH WHERE COUNTERTOP IS ADJACENT TO SIDE WALLS.
24. WHERE CABINETS HAVE OPENINGS FOR EQUIPMENT OR KNEE SPACE AND AT ACCESSIBLE SINKS, WRAP WALL BASE IN AND AROUND OPEN CABINET.
25. GYPSUM WALLBOARD SOFFIT TO BE PROVIDED AT ALL WALL CABINETS. WHERE SPECIFIED, PROVIDE PLASTIC LAMINATE FASCIA TO BE IN SAME COLOR AND STYLE AS WALL CABINETS.
26. ALL SYSTEMS FURNITURE TO BE O.F.O.I. CONTRACTOR TO COORDINATE WALL BRACKET LOCATIONS TO AVOID CONFLICT WITH ELECTRICAL/DATA DEVICES.
27. CONTRACTOR TO PROVIDE WALL BLOCKING FOR ALL WALL MOUNTED SYSTEMS FURNITURE AND OWNER FURNISHED EQUIPMENT.

MISCELLANEOUS FINISHES

1. PROVIDE SURFACE MOUNTED CORNER GUARDS AT ALL OUTSIDE CORNER AND PARTITION ENDS THROUGHOUT ALL CLINICAL & BACK OF HOUSE SPACES. PROVIDE AT ALL OUTSIDE CORNERS, EVEN IF NOT INDICATED ON FINISH DRAWINGS.
2. INSTALL ALL CERAMIC TILE MATERIALS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR SUBSTRATE CONDITIONS, AND PER TCNA SPECIFICATIONS, LATEST EDITION. PROVIDE WATERPROOF BARRIER MEMBRANE AT ALL CERAMIC TILE FLOORING/SHOWER AREA INSTALLATIONS. PROVIDE CEMENTIOUS BACKERBOARD AT ALL CERAMIC WALL TILE INSTALLATIONS. BACKERBOARD SEAMS TO BE PROPERLY TAPED AND FINISHED BY DRYWALL SUBCONTRACTOR IN PREPARATION FOR CERAMIC TILE INSTALLATION.
3. REFERENCE ARCHITECT'S CONTRACT DOCUMENTS, IN CONJUNCTION WITH FINISH DRAWINGS, FOR CEILING TILE/GRID SPECIFICATIONS.
4. CONTRACTOR TO INCLUDE INSTALLATION OF ITEMS LISTED BELOW IN THEIR BASE BID. INSTALL ITEMS UTILIZING DRYWALL ANCHORS AND SCREWS OR TOGGLE BOLTS. DOUBLE STICK TAPE AND/OR LIQUID GLUE WILL NOT BE ACCEPTABLE.

CONTRACTOR SHALL PROVIDE ATTIC STOCK AS NOTED OF THE QUANTITY ORDERED FOR EACH OF THE FOLLOWING FINISHES:

- o 1 BOX OF EACH TYPE OF CARPET TILE SPECIFIED
- o (1) ROLL OF EACH SHEET VINYL FLOORING SPECIFIED
- o 3% OF VINYL PLANK FLOORING SPECIFIED
- o (1) BOX OF EACH PORCELAIN AND CERAMIC TILE/TRIM SPECIFIED
- o (1) BOX OF EACH BASE SPECIFIED, UNLESS OTHERWISE NOTED
- o (1) BOX OF EACH CEILING TILE SPECIFIED
- o ALL REUSABLE SCRAPS OF WALL PROTECTION SPECIFIED, UNLESS OTHERWISE NOTED
- o (4) SHEETS OF WALL PROTECTION (WP-1)
- o (1) OF EACH TOILET ACCESSORY. REFERENCE ARCHITECT'S DRAWINGS

WALLCOVERING

1. INSTALL ALL WALLCOVERING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PRIOR TO BEGINNING INSTALLATION OF WALLCOVERING, SUBMIT A MINIMUM OF (3) 8 1/2" X 11" SAMPLES OF EACH TYPE OF WALLCOVERING SPECIFIED TO PROJECT MANAGER FOR APPROVAL. SAMPLES SHALL BE CUT FROM THE ACTUAL WALLCOVERING TO BE USED IN THE INSTALLATION.
2. ALL WALLCOVERINGS ARE TO BE STORED IN A DRY AREA, IN ORIGINAL CONTAINERS WITH LABELS INTACT. ROLLS OF FABRIC AND VINYL WALLCOVERING SHALL BE STORED HORIZONTALLY TO PREVENT DAMAGE TO ROLL EDGES.
3. REMOVE WALLCOVERING MATERIALS FROM PACKAGING AND ALLOW TO ACCLIMATIZE TO AREA OF INSTALLATION TWENTY-FOUR (24) HOURS BEFORE APPLICATION TO WALLS.
4. ALL WALLS RECEIVING WALLCOVERING TO BE LEVEL 5 FINISH AND PRIMED WITH A LATEX WALL PRIMER, PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO APPLICATION.
5. INSTALL WALLCOVERING WITH MANUFACTURER'S RECOMMENDED ADHESIVE, PRIMER AND SEALER MANUFACTURED EXPRESSLY FOR USE WITH WALLCOVERING/WALL LINER SPECIFIED. ADHESIVE TO BE MILDEW-RESISTANT AND NON-STAINING TO WALLCOVERING. PROVIDE MANUFACTURER'S STRIPPABLE TYPE ADHESIVE FOR USE WITH WALLCOVERING APPLIED OVER DRYWALL.
6. PROVIDE WALLCOVERING CONTINUOUSLY OVER EXTERNAL CORNERS. OVERLAP SEAMS AND DOUBLE CUT TO ASSURE TIGHT CLOSURE. ROLL, BRUSH OR USE BROAD KNIFE TO REMOVE ALL AIR BUBBLES, WRINKLES, BLISTERS AND OTHER DEFECTS.
7. ALL WALLCOVERING TO BE WRAPPED AT LEAST THREE INCHES (3") AROUND OUTSIDE CORNERS.
8. ALL WALLCOVERING PATTERNS TO BE MATCHED.
9. INSTALL ALL WALLCOVERING SEAMS VERTICALLY AND PLUMB.
10. ALL SOFFIT FACES SHALL RECEIVE THE SAME WALLCOVERING AS SPECIFIED ON THE ADJACENT WALL, WITH SEAM AT OUTSIDE BOTTOM EDGE OF SOFFIT. CUT EDGE SHALL HAVE CRISP EDGE TIGHT TO BOTTOM OF SOFFIT FACE. NOTIFY PROJECT MANAGER OF ANY UNDESIGNATED SOFFIT FINISH SPECIFICATION OR OF ANY CONDITIONS WHERE A DESIGNATED SOFFIT ADJOINING A WALL SURFACE IS NOT DESIGNATED TO RECEIVE THE SAME FINISH AS SPECIFIED FOR THE ADJOINING WALL.
11. USE FULL HEIGHT CORNER GUARD, AS SPECIFIED, ON OUTSIDE CORNERS WHERE TWO DIFFERENT VINYL WALLCOVERINGS MEET. REFERENCE FINISH DRAWINGS FOR CORNER GUARD LOCATIONS.
12. WHERE WALLCOVERING MEETS A CORNER GUARD, IT SHALL BE WRAPPED TO OVERLAP METAL RETAINER REVEALS AND ATTACHED TIGHT SO THAT WALLCOVERING EDGES DO NOT PUCKER. ASSURE THAT WALLCOVERING ADHESIVE IS ALLOWED TO SET AT INSIDE CORNER GUARD REVEALS FOR 2-3 DAYS PRIOR TO CORNER GUARD INSTALLATION.

PAINT

1. APPLY ALL PAINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND FINISH SPECIFICATIONS. PAINTING SUBCONTRACTOR SHALL SUBMIT A MINIMUM OF (3) 8 1/2" X 11" SIZE PAINT SAMPLES SHOWING COLOR AND FINISH OF EACH PAINT COLOR SPECIFIED TO PROJECT MANAGER FOR APPROVAL.
2. ALL PAINT SURFACES ARE TO RECEIVE ONE PRIMER COAT AND A MINIMUM OF TWO FINISH COATS. PRIME ALL SURFACES ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THE NUMBER OF COATS SPECIFIED IS THE MINIMUM NUMBER REQUIRED. APPLY ADDITIONAL COATS WHEN UNDERCOAT OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT OR UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE.
3. ALL MISCELLANEOUS GRILLES, PLATES, ETC. OCCURRING ON WALLS OR CEILINGS ARE TO BE PAINTED TO MATCH SURFACES ON WHICH THEY OCCUR. PAINT TO BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS FOR SUBSTRATE ON WHICH THEY OCCUR.
4. PRIMER SHALL BE LATEX PRIMER/SEALER FOR SURFACE APPLIED, AS RECOMMENDED BY MANUFACTURER FOR SURFACE SUBSTRATE.
5. PAINT ALL INTERIOR METAL WINDOW FRAMES, AND HOLLOW METAL DOOR FRAMES. FINISH COAT TO BE (P-4B) UNLESS NOTED OTHERWISE.
6. ALL GYPSUM BOARD CEILINGS WITHIN PROJECT SHALL BE (P-5D), UNLESS OTHERWISE DESIGNATED. REFERENCE FINISH DRAWING REMARKS FOR SPECIFIC CONDITIONS.
7. PAINT UNDERSIDE OF SOFFITS WITH (P-5D), UNLESS OTHERWISE DESIGNATED IN FINISH PLANS. AT WALL CABINETS, PAINT EXPOSED UNDERSIDE OF SOFFIT WITH SAME PAINT COLOR AS SPECIFIED FOR WALLS.
8. ALL SOFFIT FACES SHALL RECEIVE THE SAME FINISH AS THE ADJACENT WALL SURFACE, UNLESS NOTED OTHERWISE ON THE FINISH PLAN. ASSURE A CLEAN, HORIZONTAL TRANSITION LINE AT BOTTOM EDGE. NOTIFY PROJECT MANAGER OF ANY UNDESIGNATED SOFFIT FINISH SPECIFICATION OR OF CONDITIONS WHERE A DESIGNATED SOFFIT ADJOINING A WALL SURFACE IS NOT DESIGNATED TO RECEIVE THE SAME FINISH AS SPECIFIED FOR THE ADJOINING WALL.
9. BLIND POCKETS AND FILLER PANELS BETWEEN WINDOW MULLIONS AND PARTITIONS ARE TO BE PAINTED TO MATCH WALL ON WHICH THEY OCCUR.
10. AT ALL LOCATIONS WITH EXPOSED CEILINGS, PAINT WALLS WITH SPECIFIED PAINT TO 10'-0" A.F.F. PROVIDE CRISP, STRAIGHT TRANSITION LINE TO UNPAINTED SURFACES ABOVE.
11. PROVIDE FIRE RETARDANT PAINT IN COLOR "P-1" AT ALL ELECTRICAL/IDF ROOM PLYWOOD BACKERBOARDS. ASSURE FIRE RETARDANT IDENTIFYING MARKER IS LEFT VISIBLE.
12. AT ALL STAIRS, PAINT ALL METAL COMPONENTS, STRINGERS, PANS, AND RAILING PAINT (P-4B).

SOFTGOODS

1. ALL CUBICLE CURTAINS WITH TRACKS AND ALL WINDOW SHADES SHALL BE FURNISHED/INSTALLED BY GENERAL CONTRACTOR IN CONJUNCTION WITH SOFTGOOD SUBCONTRACTOR. SOFTGOOD SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL TREATMENTS AND HARDWARE FOR A COMPLETE INSTALLATION OF ALL CUBICLE CURTAINS AND WINDOW TREATMENTS AS INDICATED IN DRAWINGS.
2. GENERAL CONTRACTOR SHALL COORDINATE WITH SOFTGOOD SUBCONTRACTOR ON SCOPE AND INSTALLATION REQUIREMENTS, AND INSTALLATION OF BLOCKING SUPPORTS,AND RECESSED WINDOW POCKETS TO ALLOW A FUNCTIONAL TREATMENT INSTALLATION.
3. LOCATIONS AND SPECIFICATIONS OF CUBICLE CURTAINS AND WINDOW TREATMENTS ETC., ARE SHOWN FOR INFORMATION ONLY. FIELD VERIFICATION/CONFIRMATION OF LAYOUT IS REQUIRED. CEILING MOUNTED TRACKS SHALL BE COORDINATED WITH LIGHT FIXTURES, HVAC GRILLES AND OTHER CEILING MOUNTED DEVICES TO AVOID CONFLICT OR OVERLAP OF INTENDED TRACK LAYOUT.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HLG studio
1401 Peachtree Street NE, Suite 200
Atlanta, GA 30309
404.760.7788
www.HLGstudio.com

GULF COAST STATE COLLEGE SINCE 1957

CLIENT

GULF COAST STATE COLLEGE NURSING SKILLS LAB

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25.008.01**
Dated 08/29/2025

FINISH GENERAL NOTES

I-000

FINISH LEGEND

PAINT
PAINT COLORS

P-1 (GENERAL)
MANUF: SHERWIN WILLIAMS
COLOR NAME: DRIFT OF MIST
COLOR #: SW 9166

P-2 (ACCENT)
MANUF: SHERWIN WILLIAMS
COLOR NAME: STARGAZER
COLOR #: SW 9635

P-3 (ACCENT)
MANUF: SHERWIN WILLIAMS
COLOR NAME: SILVERMIST
COLOR #: SW 7621

P-4 (DOOR FRAMES)
MANUF: SHERWIN WILLIAMS
COLOR NAME: FAWN BRINDLE
COLOR #: SW 7640

P-5
MANUF: SHERWIN WILLIAMS
COLOR NAME: PURE WHITE
COLOR #: SW 7005

PAINT FINISHES

A
MANUF: SHERWIN WILLIAMS
PRODUCT: PRO MAR 200 LOW VOC, LATEX EGG-SHELL FINISH

B (DOOR FRAMES)
MANUF: SHERWIN WILLIAMS
PRODUCT: PRO INDUSTRIAL DTM ACRYLIC, SEMI-GLOSS

C
MANUF: SHERWIN WILLIAMS
PRODUCT: PRO MAR 200 LATEX SEMI-GLOSS

D (CEILINGS)
MANUF: SHERWIN WILLIAMS
PRODUCT: PRO MAR 200 LATEX FLAT FINISH

CARPET

C-1
MANUF: INTERFACE
COLLECTION: BEAUMONT RANGE
PATTERN: EBEN
COLOR: 107539 GREIGE
SIZE: 25 CM X 1 M
INSTALL: ASHLAR
CONTACT: SHELBY EANES, 470.698.4508, SHELBY.EANES@INTERFACE.COM

LUXURY VINYL TILE

LVT-1
MANUF: INTERFACE
COLLECTION: EARTHEN FORMS
PATTERN: ON GRAIN
COLOR: A03308 SMOKEY ASH
SIZE: 25 CM X 1 M
THICKNESS: 5 MM
INSTALL: ASHLAR
NOTE: USE MANUFACTURER'S ADHESIVE AS RECOMMENDED FOR SUBSTRATE CONDITIONS.
CONTACT: SHELBY EANES, 470.698.4508, SHELBY.EANES@INTERFACE.COM

LVT-2
MANUF: INTERFACE
COLLECTION: BRUSHED LINES
PATTERN: BRUSHED LINES
COLOR: A01608 SANDALWOOD
SIZE: 25 CM X 1 M
THICKNESS: 5 MM
INSTALL: ASHLAR
NOTE: USE MANUFACTURER'S ADHESIVE AS RECOMMENDED FOR SUBSTRATE CONDITIONS.
CONTACT: SHELBY EANES, 470.698.4508, SHELBY.EANES@INTERFACE.COM

LVT-3
MANUF: INTERFACE
COLLECTION: BRUSHED LINES
PATTERN: BRUSHED LINES
COLOR: CELADON
SIZE: 25 CM X 1 M
THICKNESS: 5 MM
INSTALL: ASHLAR
NOTE: USE MANUFACTURER'S ADHESIVE AS RECOMMENDED FOR SUBSTRATE CONDITIONS.
CONTACT: SHELBY EANES, 470.698.4508, SHELBY.EANES@INTERFACE.COM

LVT-4
MANUF: INTERFACE
COLLECTION: SCORPIO
PATTERN: STARGAZING
COLOR: A01713 PEBBLE
SIZE: 50 CM X 50 CM
THICKNESS: 4.5 MM
INSTALL: MONOLITHIC
NOTE: USE MANUFACTURER'S ADHESIVE AS RECOMMENDED FOR SUBSTRATE CONDITIONS.
CONTACT: SHELBY EANES, 470.698.4508, SHELBY.EANES@INTERFACE.COM

LVT-5 (RESTROOMS)
MANUF: MANNINGTON
STYLE: SPACIA
PATTERN: STONE
COLOR: GIBSON SSSS2603
SIZE: 18" X 18"
THICKNESS: 20 MIL., 4 MM THICK
INSTALL: MONOLITHIC
NOTE: USE MANUFACTURER'S ADHESIVE AS RECOMMENDED FOR SUBSTRATE CONDITIONS. NO MICRO BEVELED EDGES.
CONTACT: SCOTT PRESSMAN, SCOTT.PRESSMAN@MANNINGTON.COM

SHEET VINYL

SV-1
MANUF: MANNINGTON
COLLECTION: BIOSPEC ARMOR
COLOR: LUNAR ROCK OR118
SIZE: 6'6"
THICKNESS: 0.080"
INSTALL: RANDOM REPEAR, REVERSE SHEET FOR SEAMING
CONTACT: SCOTT PRESSMAN, SCOTT.PRESSMAN@MANNINGTON.COM

TILE

T-1
MANUF: NASCO STONE + TILE
COLLECTION: FORAGE PORCELAIN TILE
COLOR: PERLA
FINISH: MATTE
SIZE: 24" X 24"
THICKNESS: 3/8"
GROUT: UTILIZE MANUFACTURER'S RECOMMENDED EPOXY GROUT JOINT SIZE PER TCNA GUIDELINES.
INSTALL: RANDOM RUNNING BOND
CONTACT: ERICA GALVIS, ERICA@NASCOSTONETILE.COM

T-2
MANUF: TILEBAR
COLLECTION: RIZO
COLOR: TAUPE
FINISH: MATTE
SIZE: 24" X 24"
THICKNESS: 9 MM
GROUT: UTILIZE MANUFACTURER'S RECOMMENDED EPOXY GROUT JOINT SIZE PER TCNA GUIDELINES.
INSTALL: MONOLITHIC
CONTACT: EMILY HATCH, 678.614.3473, EHATCH@TILEBAR.COM

T-3 (LOBBY STAIR)
MANUF: TILEBAR
COLLECTION: RIZO
COLOR: TAUPE
FINISH: MATTE
SIZE: 24" X 24"
THICKNESS: 2 CM PAVER
GROUT: UTILIZE MANUFACTURER'S RECOMMENDED EPOXY GROUT JOINT SIZE PER TCNA GUIDELINES.
INSTALL: MONOLITHIC
CONTACT: EMILY HATCH, 678.614.3473, EHATCH@TILEBAR.COM

SEALED CONCRETE

SC-1
FINISHED AND CLEAR SEALED CONCRETE FLOORING, LATICRETE DRESS & SEAL WB 30. MATTE FINISH.

BASE

B-1
MANUF: TARKETT / JOHNSONITE
PRODUCT: MILLWORK PROFILE - EXHIBIT
COLOR: 29 MOON ROCK
SIZE: 4.25" H
CONTACT: NICOLETTE PIZZOFERRATO, 470.825.5494, NICOLETTE.PIZZOFERRATO@TARKETT.COM

B-2
MANUF: TARKETT / JOHNSONITE
PRODUCT: COVE BASE
COLOR: 29 MOON ROCK
SIZE: 4" H
CONTACT: NICOLETTE PIZZOFERRATO, 470.825.5494, NICOLETTE.PIZZOFERRATO@TARKETT.COM

B-3
PRODUCT: (FLASH COVE) 6" HIGH SV-1 BASE, SELF-FLASH COVED
INSTALL: ANODIZED ALUMINUM TRIM CAP OR OVERLAP INSTALLATION.
PROVIDE CORNER FILLER STRIP (REFERENCE SPECIFIC SCHEDULED SHEET VINYL
FLOORING SPECIFICATION FOR MATERIAL TO BE USED).
UTILIZE HEAT WELDED INSIDE AND OUTSIDE CORNER DETAIL.

WALL TILE

WT-1
MANUF: DALTILE
COLLECTION: VERTUO
COLOR: MAESTRO VR10
FINISH: MATTE
SIZE: 12" X 24"
THICKNESS: 5/16"
GROUT: UTILIZE MANUFACTURER'S RECOMMENDED EPOXY GROUT JOINT SIZE PER TCNA GUIDELINES.
INSTALL: 1/2 OFFSET RUNNING BOND
CONTACT: KATIE BERRY, 205.616.4405, KATIE.BERRY@DALTILE.COM

WALLCOVERING

WC-1
MANUF: WOLF GORDON RAMPART
PATTERN: SHIFT
COLOR: CREAM
SIZE: 52" W, 35 OZ/LY, REVERSE HAND, RANDOM MATCH
CONTACT: KAELIN STROSCHEIN, 770.212.0629, Kaelin.stroschein@Wolfgordon.com

WC-2
MANUF: KOROSEAL
PRODUCT: TYPE II DIGITAL WALLCOVERING
STYLE: CUSTOM IMAGE
COLOR: CUSTOM IMAGE
WIDTH: 72"
INSTALL: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
CONTACT: MAUREEN GUNDAKER, 404.432.1016

SOLID SURFACE

SS-1
MANUF: CAMBRIA
PRODUCT: QUARTZ
PATTERN: IRONSBRIDGE
THICKNESS: 2 CM
EDGE: EASED
INSTALL: ENSURE CONTINUOUS HORIZONTAL VEINING ON ALL SIDES OF INSTALLATION.
CONTACT: BRANDON FAVIA, BRANDON.FAVIA@GO.CAMBRIAUSA.COM

SS-2
MANUF: LX HAUSYS
PRODUCT: HI MACS
COLOR #: MOONDUST G160
THICKNESS: 1/2"
EDGE: EASED
CONTACT: ERIK MOSCA, 404.661.3658, EMOSCA@LXHAUSYS.COM

SS-3
MANUF: LX HAUSYS
PRODUCT: HI MACS
COLOR #: ALPINE WHITE
THICKNESS: 1/2"
EDGE: EASED
CONTACT: ERIK MOSCA, 404.661.3658, EMOSCA@LXHAUSYS.COM

SS-4 (TREE BASE)
MANUF: WILSONART
PRODUCT: SOLID SURFACE
COLOR: METRO CONCRETE, 9249SS
THICKNESS: 1/2"
SIZE: 30"X144"
CONTACT: JOE VELA, 704.989.3819, VELAJ@WILSONART.COM

PLASTIC LAMINATE

PL-1
MANUF: WILSONART
COLOR: FRENCH PEAR
COLOR #: 8220-38
FINISH: FINE VELVET TEXTURE
NOTE: VERTICAL INSTALLATION
SIZE: 48" X 144"
CONTACT: SAM SPUNG, SAMANTHA.SPUNG@WILSONART.COM

PL-2
MANUF: WILSONART
COLOR: MANGALORE MANGO
COLOR #: 7984-38
FINISH: FINE VELVET TEXTURE
INSTALL: VERTICAL INSTALLATION
SIZE: 49.6" X 51.18"
CONTACT: SAM SPUNG, SAMANTHA.SPUNG@WILSONART.COM

PL-3
MANUF: PIONITE
COLOR: LOVE LETTERS
COLOR #: AW300
FINISH: TEXTURED/SUEDE
NOTE: VERTICAL INSTALLATION
SIZE: 48" X 96"
CONTACT: BRYCE WALKER, 678.687.7201, BRYCE_WALKER@PANOLAM.COM

DOORS/STAIN

WD-1
MANUF: VT INDUSTRIES
SPECIES: WHITE BIRCH, PLAIN SLICED, FLAT CUT (FC)
COLOR: R118, RIVERSTONE
CONTACT: JACOB FREESE, 712.369.8902, JFREESE@VTINDUSTRIES.COM

CORNER GUARDS

CG-1
MANUF: C/S ACROVYN
PRODUCT: SURFACE-MOUNTED CORNER GUARD, #SSM-20N
COLOR: #262 DRIFTWOOD
RETURN: 2" RETURN
INSTALL: FULL HEIGHT
CONTACT: PAM REGISTER, PREGISTER@C-SGROUP.COM, 404.922.5653

CEILINGS

ACT-1
MANUF: ARMSTRONG
PRODUCT: #1772 DUNE
COLOR: WHITE
SIZE: 24" X 24" X 5/8"
EDGE: SQUARE EDGE LAY-IN
GRID: ARMSTRONG 15/16" PRELUDE XL STEEL EXPOSED TEE GRID
CONTACT: JODY TEETER, JTTEETER@ARMSTRONGCEILINGS.COM

ACT-2
MANUF: ARMSTRONG
PRODUCT: OPTIMA HIGH NRC
COLOR: WHITE
SIZE: 24" X 24" X 5/8"
EDGE: SQUARE EDGE LAY-IN
GRID: ARMSTRONG 15/16" PRELUDE XL STEEL EXPOSED TEE GRID
CONTACT: JODY TEETER, JTTEETER@ARMSTRONGCEILINGS.COM

SPECIALTY FINISHES

SF-2 (STONE SLAB)
MANUF: INFINITY
PRODUCT: ICONIC CIPOLLINO MB25
COLOR: GREEN
FINISH: POLISHED
SIZE: 63.5" X 127.5"
NOTE: CUT TO DIMENSIONS SHOWN ON ELEVATION 7/I-800
THICKNESS: 6 MM RECTIFIED
CONTACT: INFO@INFINITYSURFACES.IT

SF-3 (ACOUSTIC PANEL)
MANUF: SOELBERG
PRODUCT: CORSA - ACOUSTIC PANEL
COLOR: CARIBBEAN PRINT/GRADIENT, COLOR SEAFOAM
SIZE: 42" x 108"
THICKNESS: +/- 1/2"
INSTALL: INSTALL WITH DARKER GRADIENT AT TOP TO LIGHTER GRADIENT AT BOTTOM.
NOTE: CONTRACTOR TO SEND DIGITAL MOCK-UP PRIOR TO ORDERING.
CONTACT: MELISSA MONK, 404.276.0494, MELISSA@MAPCONTRACT.COM

SF-4 (ACOUSTIC TILE)
MANUF: CARNEGIE
PRODUCT: XOREL ACOUSTIC TILES - RIPPLE
FINISH: QUIET CORE SUBSRTATE - NRC 0.70
SIZE: 1" THICK
NOTE: SEE ELEVATION 2/I-801 FOR INSTALL INFORMATION. USE MANUFACTUER'S RECOMMENDED ADHESIVE FOR PROPER INSTALLATION.
CONTACT: BRYNA WIGGINS, 404.660.5945, Brynawiggins@witcontract.com

A. FLASHBACK, 6603 38
B. FLASHBACK, 6615, 51

SF-5 (STAIR TREAD/RISER)
MANUF: AMERICAN BILTRITE
PRODUCT: ABRURE HAMMERED STAIR TREAD WITH RISER - OPM
COLOR: OPM-32 APPALACHAIN TRAIL
NOTE: STAIR TREAD/RISER
CONTACT: CHRIS LEE, 864.616.5049, clee@american-biltrite.com

SF-6 (WOOD PANEL)
MANUF: STACKED WOOD
PRODUCT: 3313 POLYGON, 3D WOOD PANEL
COLOR: STAIN TO MATCH WD-1.
SIZE: 14" X 48.5"
FIRE TREATMENT: CLASS B / II
THICKNESS: .26"
CONTACT: info@biboyd.com <info@biboyd.com>

SF-7 (PLAM PANEL)
MANUF: MARLITE
PRODUCT: SIEVA LARGE PANEL WALL SYSTEM
SIZE: REFER TO ELEVATION FOR EXTENTS & FINISH DETAILS. CONFIRM ALL INSTALLATION DETAILS DURING SHOP DRAWING REVIEW PROCESS.
COLOR: PL-1, FINISH FOR REVEALS - CLEAR SATIN ANODIZED
CONTACT: ANITA CRAIG, 330.260.7621, ACRAIG@MARLITE.COM

SF-8 (FILM)
MANUF: SOLYX WINDOW FILM
PRODUCT: SX-3131-CTS
PATTERN: ECO DUSTED
NOTE: CUT TO SIZE, SEE WALL FINISH PLAN FOR INSTALLATION LOCATION. ALL WINDOW FILM ON INTERIOR GLAZING TO GO UP TO 6' MINIMUM - SEE TYPICAL ELEVATION.
CONTACT: JAMIE HAMILTON, 404.360.7866, Jamie@nationalglazingsolutions.com

SF-9 (METAL)
MANUF: FORMS+SURFACES
PRODUCT: FUSED GRAPHITE METAL
FINISH: SANDSTONE FINISH
SIZE: 48" X 120"
NOTE: REFER TO INTERIOR ELEVATIONS SHEET I-800 FOR APPLICATION LOCATION
CONTACT: JENNIFER LOUX, 404.323.8265, Jennifer.loux@forms-surfaces.com

SF-10 (DIMENSIONAL PANEL)
MANUF: MARIO ROMANO
PRODUCT: CORIAN DIMENSIONAL PANEL
PATTERN: V90, LAKE
COLOR: WHITE
SIZE: CUSTOM SIZE - SEE ELEVATION 6/I-200 FOR DIMENSIONS
CONTACT: 310.243.6967

ROLLER SHADES

RS-1 (MANUAL)
MANUF: INPRO
PRODUCT: CF200 SOLOMOUNT CORDLESS SHADE
PATTERN: WT 24X
COLOR: 241-18 WHITE/GREY
OPENNESS: 3%
SIZE: MANUFACTURER TO VERIFY IN FIELD
CONTACT: PAUL BATES, 770.880.2948, Pbates@inprocorp.com

RS-2 (MOTORIZED)
MANUF: INPRO
PRODUCT: CF200 SOLOMOUNT DUAL CORDLESS SHADE
PATTERN: 1) WT 24X, 2)
COLOR: 1) 241-18 WHITE/GREY, 2) 245B WHITE/GREY
OPENNESS: 1) 3%, 2) BLACKOUT
SIZE: MANUFACTURER TO VERIFY IN FIELD
CONTACT: PAUL BATES, 770.880.2948, Pbates@inprocorp.com

TOILET PARTITIONS

TP-1
MANUF: BRADLEY
PRODUCT: PHENOLIC PRIVACY PARTITIONS
COLOR: FASHION GREY
SIZE: AVAILABLE IN 4'X10' SHEETS
INSTALL: FLOOR TO CEILING SUPPORTED BETWEEN DOORS
CONTACT: RYAN BARNES, 678.516.0377, ryanbarnes@harrywarren.com

CUBICLE CURTAINS

CC-1
MANUF: ARCCOM
NUMBER: AC-33375X
COLOR: SEAFOAM #6
WIDTH: 72"
REPEAT: RAILROAD
NOTE: INPRO FORMATRAC BENDABLE TRACK WITH MOLDED NYLON CARRIERS, COLOR: WHITE. PROVIDE CONTINUOUS TRACK AT ALL CUBICLE CURTAIN LOCATIONS.
CONTACT: SARA HELPER 404.242.3352, SHELPER@ARC-COM.COM

WALL PROTECTION

WP-1
MANUF: INPRO
PRODUCT: PRISM SOLID SURFACE
COLOR: FROSTED WHITE P9711
THICKNESS: .040" THICK
SIZE: 48" X 120"
INSTALL: INSTALL FULL 4'-0" PANEL ON TOP OF BASE (TOTAL HEIGHT TO TOP OF WALL PROTECTION TO BE 52"-54" +/- (DEPENDENT ON BASE HEIGHT)), UNLESS OTHERWISE NOTED, WITH FINISHED CORNER AND SEAM TRIMS IN MATCHING COLOR FOR COMPLETE, MONOLITHIC INSTALLATION. WALL PROTECTION TO BE APPLIED DIRECTLY TO GYPSUM BOARD. CAULK AT WALL TO TRIM JOINT IN COLOR TO MATCH WALL PROTECTION.
CONTACT: PAUL BATES, 770.880.2948, Pbates@inprocorp.com

ELEVATORS

PUBLIC ELEVATORS
DOOR FINISH: MANUFACTURER'S STANDARD BRUSHED STAINLESS STEEL
INTERIOR PANELS: PLASTIC LAMINATE - PL-1
CAB REVEALS: BRUSHED STAINLESS STEEL 1-1/2"
HANDRAILS: 1-1/4" CYLINDRICAL STAINLESS STEEL WITH SATIN FINISH, ALL THREE WALLS
FLOORING: LVT-1
CEILING: LF-97 STAINLESS STEEL PANELS WITH SATIN FINISH AND SQUARE LED LIGHTING

FINISH MATERIAL REMARKS

VINYL FLOOR

1. CAULK ALL VINYL TILE/VINYL COMPOSITION TILE FLOORING TO DOOR JAMBS/MILLWORK TRANSITIONS IN COLOR TO MATCH FLOORING.
2. CONTRACTOR TO COORDINATE WITH THE INTERIOR DESIGN DRAWINGS FOR FLOORING PATTERN/LAYOUT.
3. **CONTRACTOR TO SUBMIT SEAMING DIAGRAMS FOR PROJECT MANAGER & OWNER APPROVAL OF ALL FLOOR TYPES ON BOTH LEVELS PRIOR TO INSTALLATION.**

SHEET VINYL

1. AT ALL SHEET VINYL FLOORING, INSTALLATION/PATTERNING SHALL BE FIELD CUT WITH A TEMPLATE. LAYOUT AND WELDING ROD COLOR PLACEMENT TO BE APPROVED BY INTERIOR DESIGNER PRIOR TO CUTTING.
2. A SEAMING DIAGRAM SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO BE APPROVED BY THE INTERIOR DESIGNER PRIOR TO CUTTING.
3. AT ALL LOCATIONS, UTILIZE 2-PART EPOXY/POLYURETHANE ADHESIVE AS RECOMMENDED BY MANUFACTURER FOR HIGH WHEEL TRAFFIC/HIGH STATIC LOAD INSTALLATION REQUIREMENTS.
4. CAULK ALL SHEET VINYL FLOORING TO DOOR JAMB/MILLWORK TRANSITIONS IN COLOR TO MATCH FLOORING.

PAINT

1. MINIMUM ONE (1) PRIMER COAT AND TWO (2) FINISH COATS AS RECOMMENDED BY MANUFACTURERE AND SPECIFIED IN CONTRACT DOCUMENTS.
2. SUBMIT PAINT BRUSH DOWN SAMPLES OF COLOR MATCHING FOR INTERIOR DESIGNER APPROVAL PRIOR TO ORDER.

WALL TILE

1. MINIMUM ONE (1) PRIMER COAT AND TWO (2) FINISH COATS AS RECOMMENDED BY MANUFACTURER AND SPECIFIED IN CONTRACT DOCUMENTS.
2. SUBMIT PAINT BRUSH DOWN SAMPLES OF COLOR MATCHING FOR INTERIOR DESIGNER APPROVAL PRIOR TO ORDER.

WALL PROTECTION

1. REFERENCE FLOOR PLANS IN CONJUNCTION WITH FINISH LEGEND FOR TYPE AND LOCATION OF WALL PROTECTION AND CORNER GUARDS.
2. PROVIDE FULL HEIGHT SURFACE MOUNTED CORNER GUARDS AT ALL OUTSIDE CORNERS WITHIN BACK OF HOUSE AREAS. LOCATIONS TO BE CONFIRMED DURING SHOP DRAWING REVIEW PROCESS.

CEILINGS

1. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR MORE INFORMATION AND DETAILS ON REFLECTED CEILING PLAN.

MILLWORK

1. FOR ALL MILLWORK IN PROJECT, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY DESIGNER AND OWNER.
2. FOR ALL WALL PANELS, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY DESIGNER AND OWNER.

PLASTIC LAMINATE

1. GRAIN/PATTERN TO RUN VERTICALLY UNLESS OTHERWISE NOTED.

SOFT GOODS

1. ALL DECORATIVE WINDOW TREATMENTS/CUBICLE CURTAINS WITH TRACKS SHALL BE FURNISHED/INSTALLED BY GENERAL CONTRACTOR.
2. MATCH CAMPUS FABRICATION STANDARDS IN ALL RESPECTS.

CUBICLE CURTAINS

1. INSTALL WITH SNAP PANELS PER SPECIFICATIONS.

TRACK

1. CUBICLE CURTAIN TRACK TO BE INPRO FORMATRAC BENDABLE TRACK WITH MOLDED NYLON CARRIERS, COLOR: WHITE. PROVIDE CONTINUOUS TRACK AT ALL CUBICLE CURTAIN LOCATIONS.
2. USE SPLICES ONLY WHERE ONE-PIECE SECTIONS CANNOT BE OBTAINED.
3. FASTEN TRACK TO CEILING GRID WITH INPRO TRACK CLIPS SPACED NOT MORE THAN 2' ON CENTER, OR APPROVED EQUAL METHOD.
4. PROVIDE ALL TRACK, CARRIERS, AND ACCESSORIES FOR COMPLETE AND OPERATIONAL SYSTEM.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
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BID DOCUMENTS

HLG studio
1401 Peachtree Street NE, Suite 200
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CLIENT

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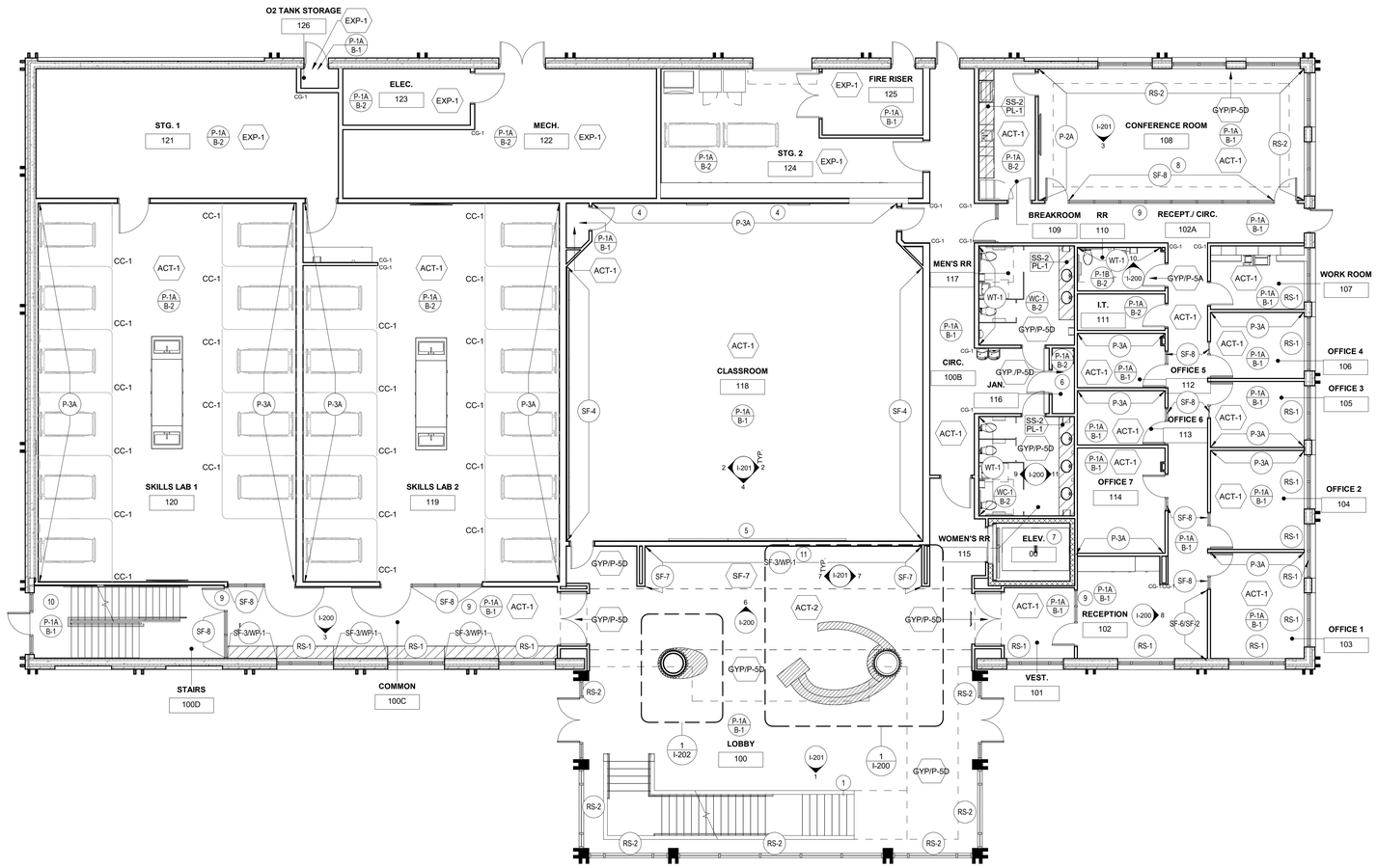
FINISH LEGEND

I-001



1 LEVEL 1 WALL FINISH PLAN
1/8" = 1'-0"

KEYNOTES

1 REFER TO INTERIOR ELEVATION FOR STAIR DETAILS AND FINISHES.

2 GLASS RAILING PANELS TO BE CLAD WITH SF-8 ON BOTH SIDES.

4 SMART TV. COORDINATE WITH AV.

5 FF&E - STEELCASE FLEX MARKERBOARDS AND TRACK. QUANTITY OF 5 MARKERBOARDS. SEE ELEVATION FOR MORE INFORMATION.

6 PAINT DOOR FRAME P-2B TO MATCH ACCENT WALL.

7 REFER TO FINISH LEGEND (I-001) FOR ELEVATOR FINISH SPECIFICATIONS.

8 SEE INTERIOR ELEVATION FOR SF-8 (WINDOW FILM) EXTENTS.

9 DO NOT PAINT ANY ALUMINUM FRAMED SYSTEMS AS A TYPICAL ACROSS THE PROJECT.

10 REFER TO FLOOR FINISH PLAN FOR STAIR TREAD AND RISER FINISHES. UNDERSIDE OF STAIR TO BE PAINTED P-1C, HANDRAILS TO BE PAINTED P-4C.

11 ADD ALTERNATE: USE SF-10 IN LIEU OF SF-3

GENERAL NOTES

A. ALL PARTITIONS TO BE PAINTED P-1A, UNLESS NOTED OTHERWISE.

B. ALL PARTITIONS TO RECEIVE B-1, UNLESS NOTED OTHERWISE.

C. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-5 IN FLAT FINISH, UNLESS NOTED OTHERWISE.

D. ALL WALL SURFACES SCHEDULED TO RECEIVE WALLCOVERING OR APPLIED GRAPHICS SHALL RECEIVE A LEVEL 5 FINISH.

E. ALL WINDOWS TO RECEIVE RS-1, UNLESS NOTED OTHERWISE.

F. ALL ELEVATOR WALLS TO BE MANUFACTURER'S PREMIUM STANDARD LAMINATE WITH METAL PANEL DROP CEILING WITH INTERGRAL LIGHTS, UNLESS NOTED OTHERWISE.

G. REFER TO DAG DRAWINGS AND ELEVATIONS FOR DELINIATION BETWEEN CASEWORK AND MILLWORK PIECES.

H. ALL DOORS TO BE STAINED WD-1, UNLESS NOTED OTHERWISE.

I. REFER TO I08.02 FOR DETAIL INFORMATION ON THE "TREE COLUMNS".

J. CC-1 TO BE HUNG FROM INPRO FORMATRAC BENDABLE TRACK WITH MOLDED NYLON CARRIERS, COLOR: WHITE. PROVIDE CONTINUOUS TRACK AT ALL CUBICLE CURTAIN LOCATIONS. COORDINATE WITH ARCHITECTURAL SET.

K. LIGHTING TO BE CONTROLLED VIA REMOTE DRIVE LOCATED OVER SECOND FLOOR BALCONY, CONFIRM AND COORDINATE WITH ELECTRICAL SUBCONTRACTOR.

L. ALL CASEWORK IS NOT IN CONTEXT AND PURCHASED BY OWNER, CONTRACTOR INSTALLED.

M. ALL WINDOW SILLS TO BE SS-3.

WALL FINISH SYMBOLS

REFERENCE FINISH LEGEND, SHEET I00.01 FOR COMPLETE FINISH MATERIAL SPECIFICATIONS.

1 KEYNOTE

P1 / B1 WALL FINISH / BASE FINISH / EXTENT OF FINISH

P1 WALL FINISH / EXTENT OF FINISH

INDICATES HORIZONTAL / INDICATES VERTICAL

CG INDICATES CORNER GUARD LOCATION

EG INDICATES END GUARD LOCATION

WP INDICATES WALL PROTECTION

CR INDICATES CRASHRAIL LOCATION

INDICATES MILLWORK

INDICATES CASEWORK FURNITURE PIECE

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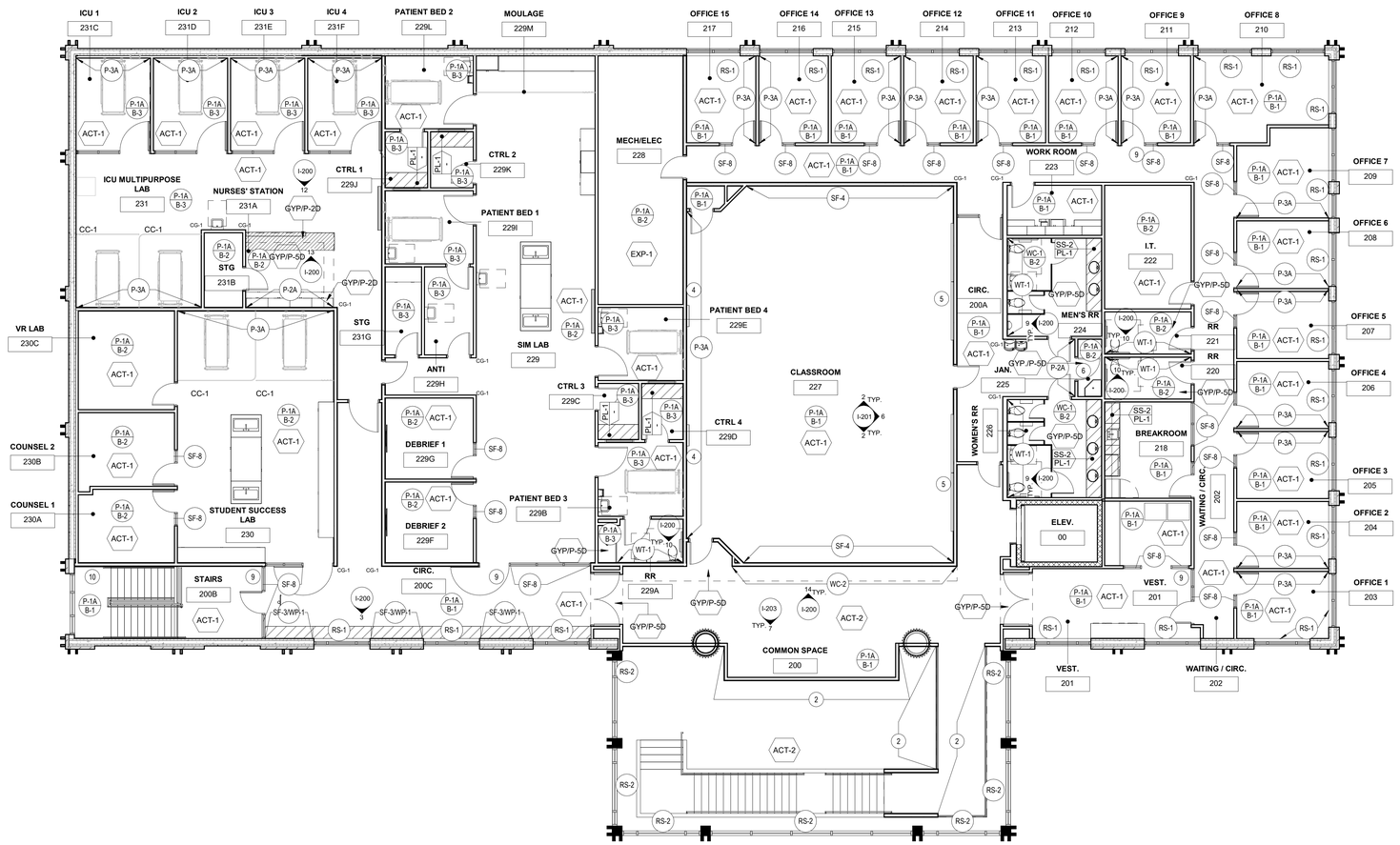
WALL FINISH PLAN - LEVEL 1

I-100



1 LEVEL 2 WALL FINISH PLAN
1/8" = 1'-0"

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KEYNOTES

1 REFER TO INTERIOR ELEVATION FOR STAIR DETAILS AND FINISHES.

2 GLASS RAILING PANELS TO BE CLAD WITH SF-8 ON BOTH SIDES.

4 SMART TV. COORDINATE WITH AV.

5 FF&E - STEELCASE FLEX MARKERBOARDS AND TRACK. QUANTITY OF 5 MARKERBOARDS. SEE ELEVATION FOR MORE INFORMATION.

6 PAINT DOOR FRAME P-2B TO MATCH ACCENT WALL.

7 REFER TO FINISH LEGEND (I-001) FOR ELEVATOR FINISH SPECIFICATIONS.

8 SEE INTERIOR ELEVATION FOR SF-8 (WINDOW FILM) EXTENTS.

9 DO NOT PAINT ANY ALUMINUM FRAMED SYSTEMS AS A TYPICAL ACROSS THE PROJECT.

10 REFER TO FLOOR FINISH PLAN FOR STAIR TREAD AND RISER FINISHES. UNDERSIDE OF STAIR TO BE PAINTED P-1C, HANDRAILS TO BE PAINTED P-4C.

11 ADD ALTERNATE: USE SF-10 IN LIEU OF SF-3

GENERAL NOTES

A. ALL PARTITIONS TO BE PAINTED P-1A, UNLESS NOTED OTHERWISE.

B. ALL PARTITIONS TO RECEIVE B-1, UNLESS NOTED OTHERWISE.

C. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED P-5 IN FLAT FINISH, UNLESS NOTED OTHERWISE.

D. ALL WALL SURFACES SCHEDULED TO RECEIVE WALLCOVERING OR APPLIED GRAPHICS SHALL RECEIVE A LEVEL 5 FINISH.

E. ALL WINDOWS TO RECEIVE RS-1, UNLESS NOTED OTHERWISE.

F. ALL ELEVATOR WALLS TO BE MANUFACTURER'S PREMIUM STANDARD LAMINATE WITH METAL PANEL DROP CEILING WITH INTERGRAL LIGHTS, UNLESS NOTED OTHERWISE.

G. REFER TO DAG DRAWINGS AND ELEVATIONS FOR DELINIATION BETWEEN CASEWORK AND MILLWORK PIECES.

H. ALL DOORS TO BE STAINED WD-1, UNLESS NOTED OTHERWISE.

I. REFER TO I08.02 FOR DETAIL INFORMATION ON THE "TREE COLUMNS".

J. CC-1 TO BE HUNG FROM INPRO FORMATRAC BENDABLE TRACK WITH MOLDED NYLON CARRIERS, COLOR: WHITE. PROVIDE CONTINUOUS TRACK AT ALL CUBICLE CURTAIN LOCATIONS. COORDINATE WITH ARCHITECTURAL SET.

K. LIGHTING TO BE CONTROLLED VIA REMOTE DRIVE LOCATED OVER SECOND FLOOR BALCONY, CONFIRM AND COORDINATE WITH ELECTRICAL SUBCONTRACTOR.

L. ALL CASEWORK IS NOT IN CONTEXT AND PURCHASED BY OWNER, CONTRACTOR INSTALLED.

M. ALL WINDOW SILLS TO BE SS-3.

WALL FINISH SYMBOLS

REFERENCE FINISH LEGEND, SHEET I00.01 FOR COMPLETE FINISH MATERIAL SPECIFICATIONS.

1 KEYNOTE

P1 / B1 WALL FINISH / BASE FINISH

EXTENT OF FINISH

P1 WALL FINISH

EXTENT OF FINISH

INDICATES HORIZONTAL
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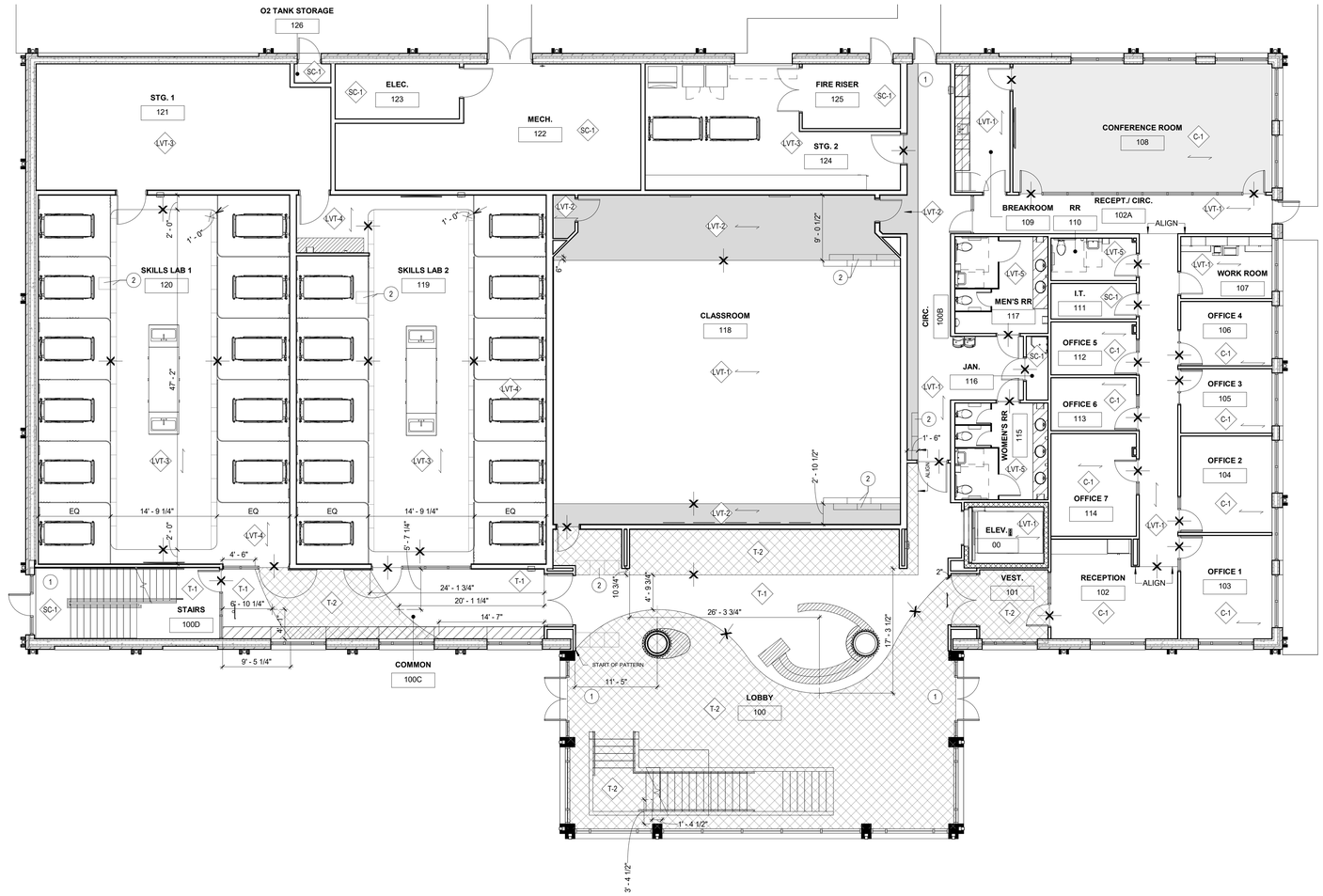
WALL FINISH PLAN - LEVEL 2

I-101



1 LEVEL 1_FLOOR FINISH PLAN
1/8" = 1'-0"

KEYNOTES

1 COORDINATE WITH GULF COAST STATE COLLEGE ON ROLL-UP WALK OFF MATS AT ENTRANCES SPECIFIED.

2 FULL PLANK/TILE WIDTH TO BE ON PERIMETER OF FLOOR PATTERN.

GENERAL NOTES

A. PROVIDE SCHLUTER SCHLENE TRANSITION STRIPS BETWEEN MATERIALS WITH 1/4" MAXIMUM THICKNESS DIFFERENCE.

B. PROVIDE SCHLUTER RENO-U TRANSITION STRIPS BETWEEN MATERIALS UP TO 1/2" THICKNESS DIFFERENCE.

C. MATERIAL TRANSITIONS TO OCCUR AT CENTERLINE OF DOORS UNLESS NOTED OTHERWISE.

D. SEAMING DIAGRAMS ARE REQUIRED OF FLOORING FOR INTERIOR DESIGNER TO REVIEW.

E. ALL ELEVATORS TO RECEIVE LVT-1, UNLESS NOTED OTHERWISE.

F. PROVIDE CEMENTITIOUS LEVELER AS REQUIRED FOR SMOOTH TRANSITION BETWEEN VARYING FLOOR TYPES.

FLOOR FINISH SYMBOLS

REFERENCE FINISH LEGEND, SHEETS I00-01 AND I00-02 FOR COMPLETE FINISH MATERIAL SPECIFICATIONS.

(1) KEYNOTE

C1 FLOOR FINISH

DIRECTION OF SPECIFIED FINISH

LOCATION OF FLOORING TRANSITION AT CENTERLINE OF DOOR ITSELF

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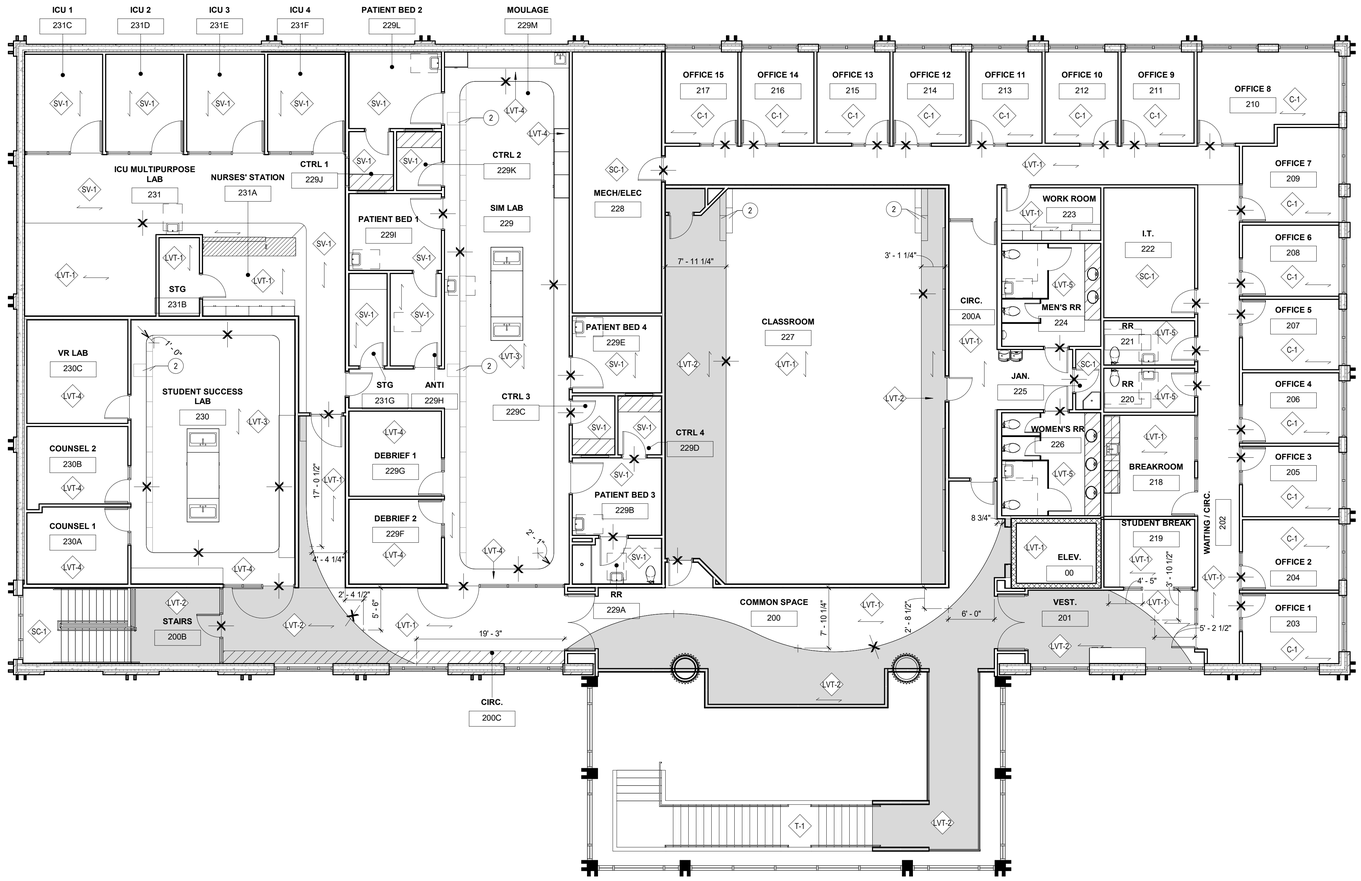
FLOOR FINISH PLAN - LEVEL 1

I-102



1 LEVEL 2_FLOOR FINISH PLAN
1/8" = 1'-0"

KEYNOTES

1 COORDINATE WITH GULF COAST STATE COLLEGE ON ROLL-UP WALK OFF MATS AT ENTRANCES SPECIFIED.

2 FULL PLANK/TILE WIDTH TO BE ON PERIMETER OF FLOOR PATTERN.

GENERAL NOTES

A. PROVIDE SCHLUTER SCHLENE TRANSITION STRIPS BETWEEN MATERIALS WITH 1/4" MAXIMUM THICKNESS DIFFERENCE.

B. PROVIDE SCHLUTER RENO-U TRANSITION STRIPS BETWEEN MATERIALS UP TO 1/2" THICKNESS DIFFERENCE.

C. MATERIAL TRANSITIONS TO OCCUR AT CENTERLINE OF DOORS UNLESS NOTED OTHERWISE.

D. SEAMING DIAGRAMS ARE REQUIRED OF FLOORING FOR INTERIOR DESIGNER TO REVIEW.

E. ALL ELEVATORS TO RECEIVE LVT-1, UNLESS NOTED OTHERWISE.

F. PROVIDE CEMENTITIOUS LEVELER AS REQUIRED FOR SMOOTH TRANSITION BETWEEN VARYING FLOOR TYPES.

FLOOR FINISH SYMBOLS

REFERENCE FINISH LEGEND, SHEETS I00-01 AND I00-02 FOR COMPLETE FINISH MATERIAL SPECIFICATIONS.

1 KEYNOTE

C1 FLOOR FINISH

DIRECTION OF SPECIFIED FINISH

LOCATION OF FLOORING TRANSITION AT CENTERLINE OF DOOR ITSELF

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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404.760.7788
www.HLGstudio.com

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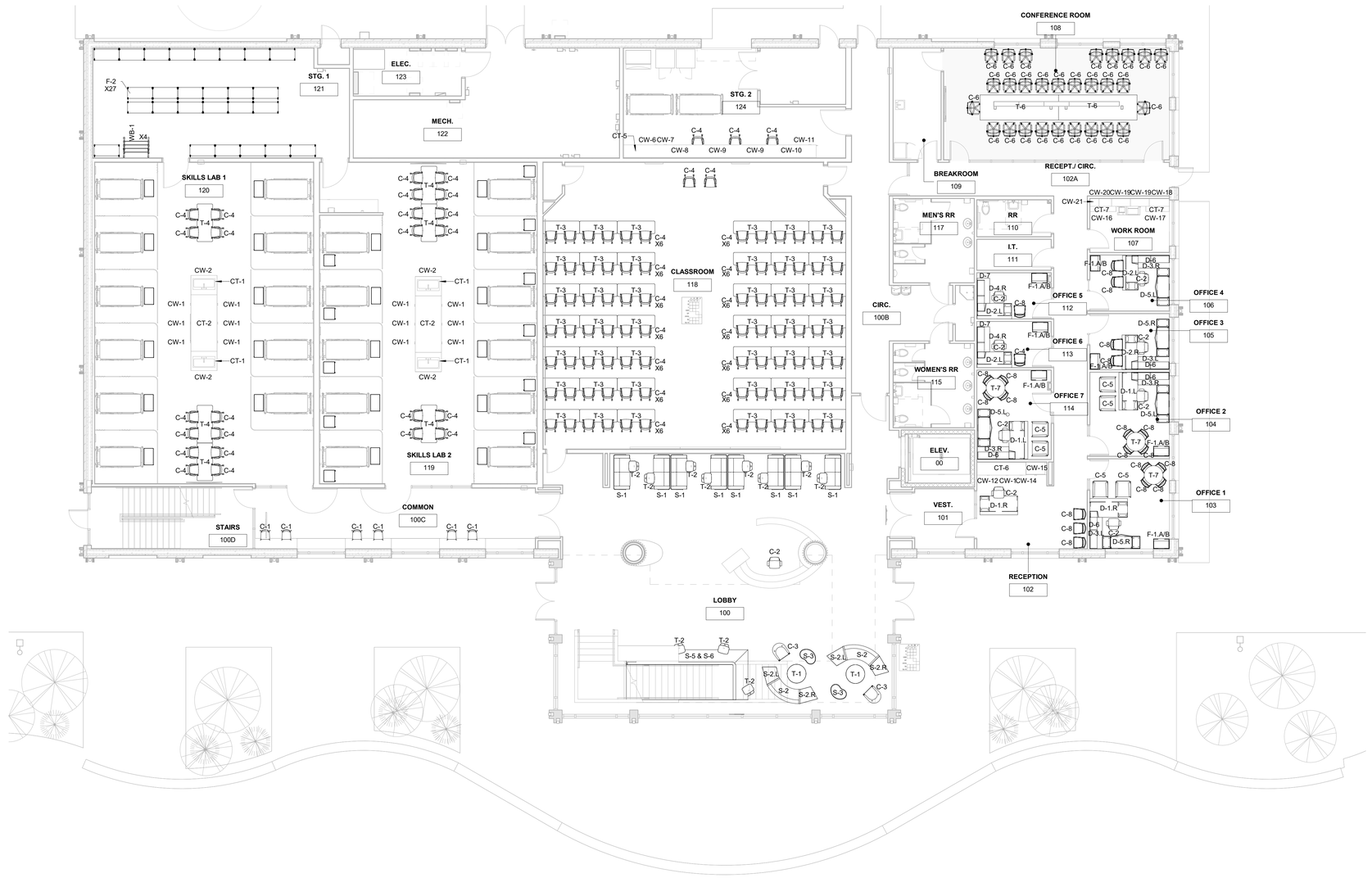
REVISIONS
NO. DESCRIPTION *DATE*

Project Number **25.008.01**
Dated 08/29/2025

FLOOR FINISH PLAN - LEVEL 2

I-103



1 LEVEL 1_FURNITURE PLAN
1/8" = 1'-0"

KEYNOTES

GENERAL NOTES

A. FURNITURE IS FOR REFERENCE ONLY.

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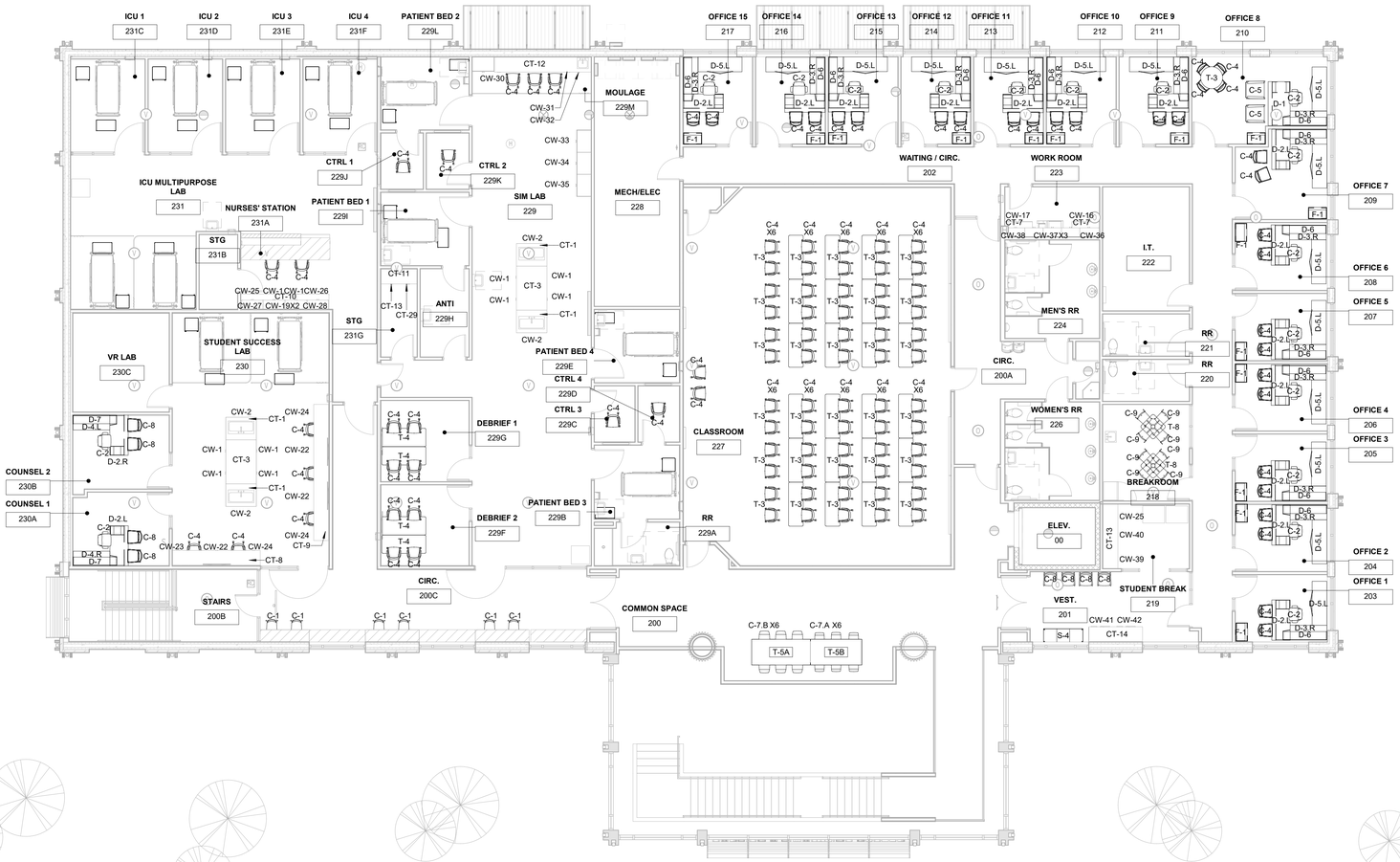
FURNITURE PLAN
- LEVEL 1

I-104



1 LEVEL 2_FURNITURE PLAN
1/8" = 1'-0"

KEYNOTES

GENERAL NOTES

A. FURNITURE IS FOR REFERENCE ONLY.

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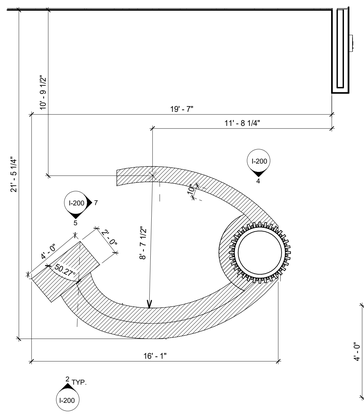
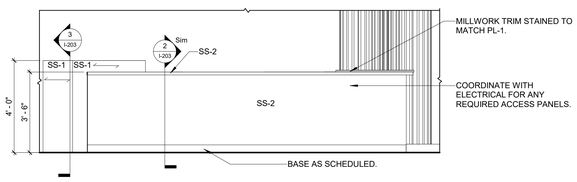
FURNITURE PLAN
- LEVEL 2

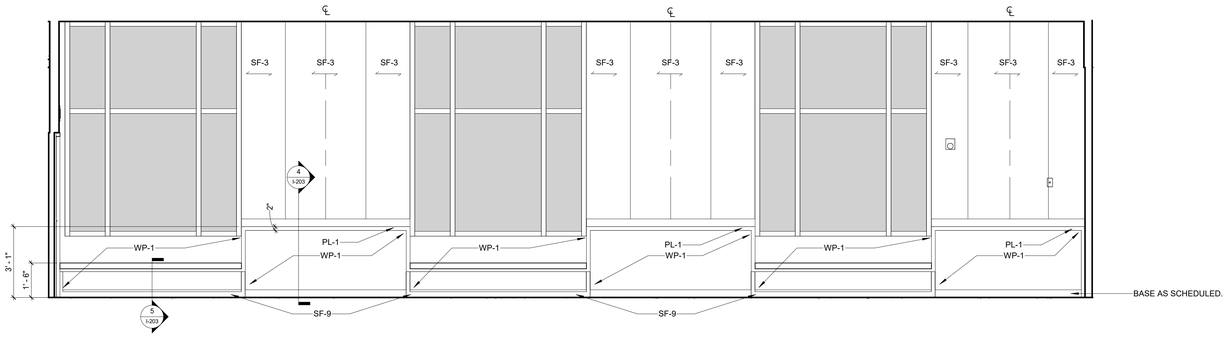
I-105



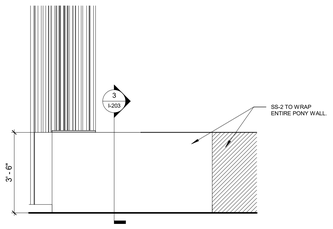
1 RECEPTION DESK
1/4" = 1'-0"



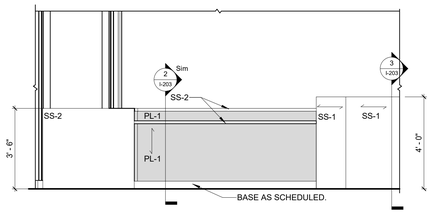
2 FRONT OF RECEPTION DESK
3/8" = 1'-0"



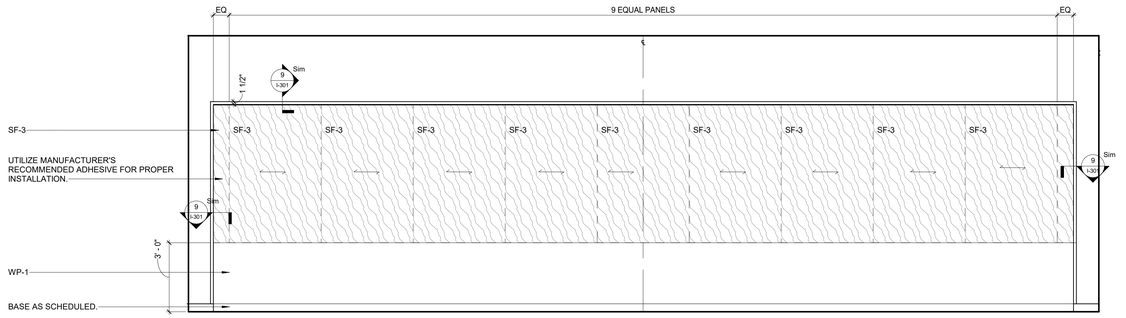
3 COMMON CORRIDORS
3/8" = 1'-0"



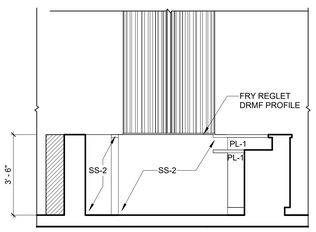
4 ELEVATION OF RECEPTION PONY WALL
3/8" = 1'-0"



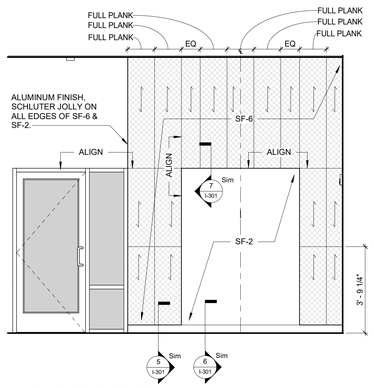
5 RECEPTION DESK INSIDE FRONT
3/8" = 1'-0"



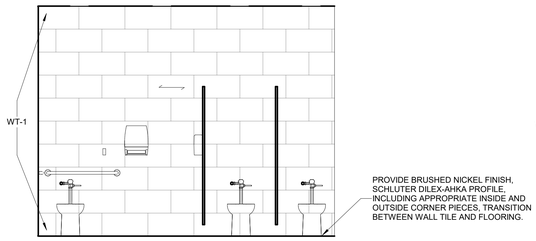
6 LOBBY FOCAL WALL
3/8" = 1'-0"



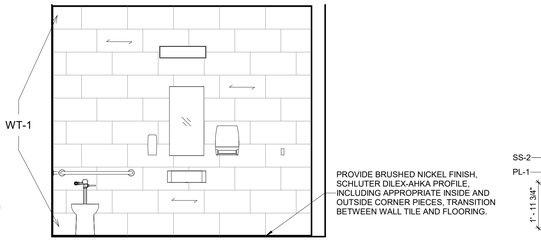
7 INSIDE ELEVATION OF RECEPTION DESK
3/8" = 1'-0"



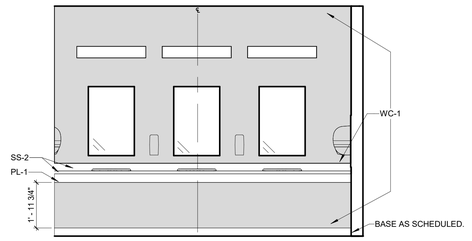
8 OFFICE CORRIDOR FOCAL WALL
3/8" = 1'-0"



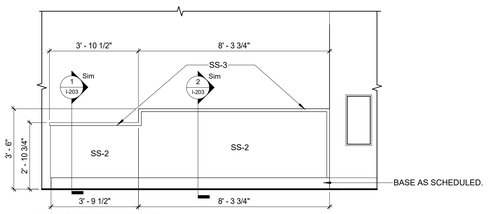
9 RESTROOM WET WALL
3/8" = 1'-0"



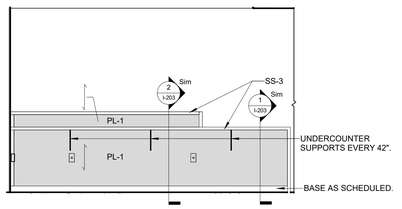
10 ELEVATION OF SINGLE RESTROOM WET WALL
3/8" = 1'-0"



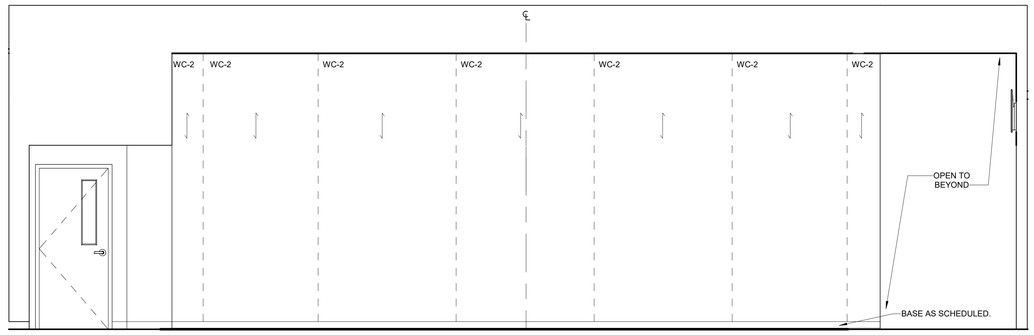
11 TYPICAL RESTROOM VANITY
3/8" = 1'-0"



12 NURSE STATION FRONT
3/8" = 1'-0"



13 NURSE STATION INSIDE BACK
3/8" = 1'-0"



14 ELEVATION OF TIMELINE WALL
3/8" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
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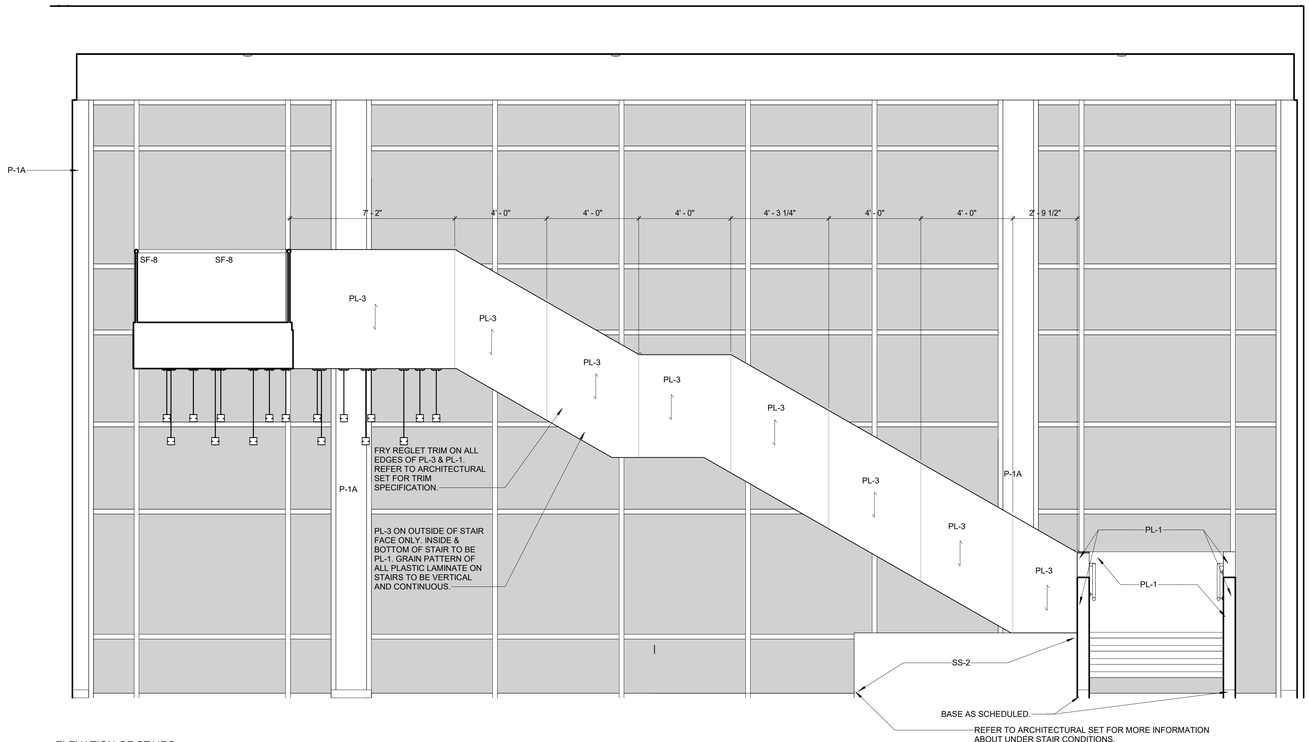
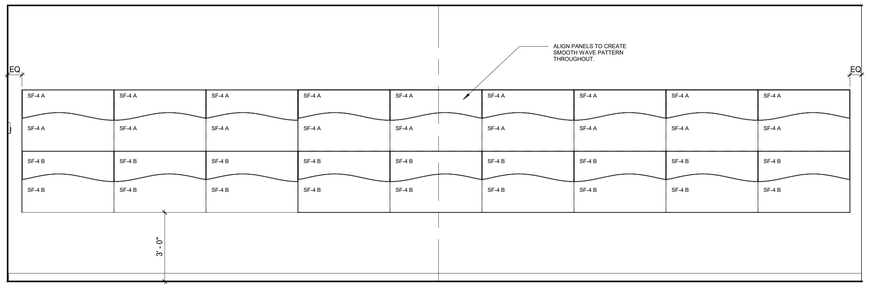
INTERIOR ELEVATIONS

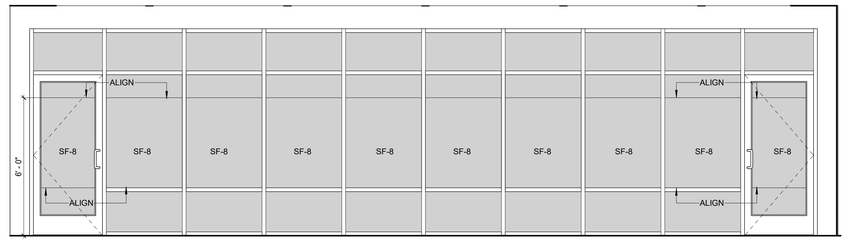
I-200



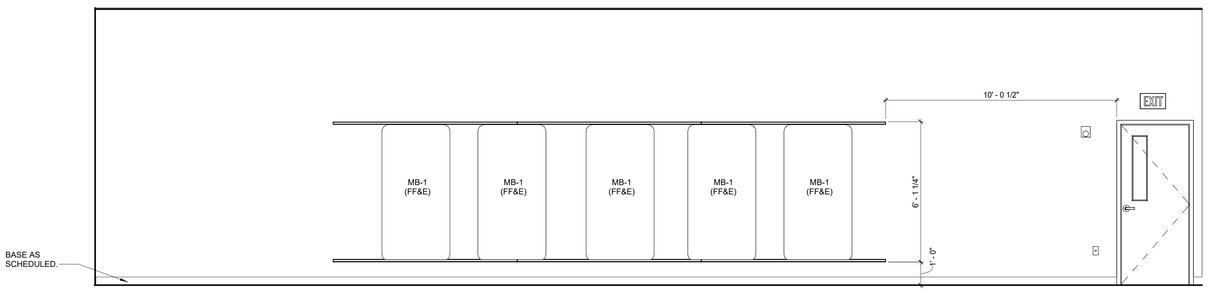
1 ELEVATION OF STAIRS
3/8" = 1'-0"



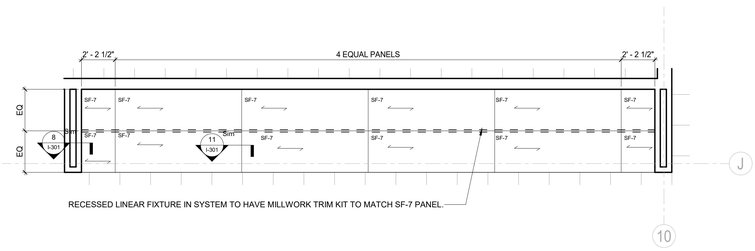
2 CLASSROOM ACOUSTIC TILE LAYOUT
3/8" = 1'-0"



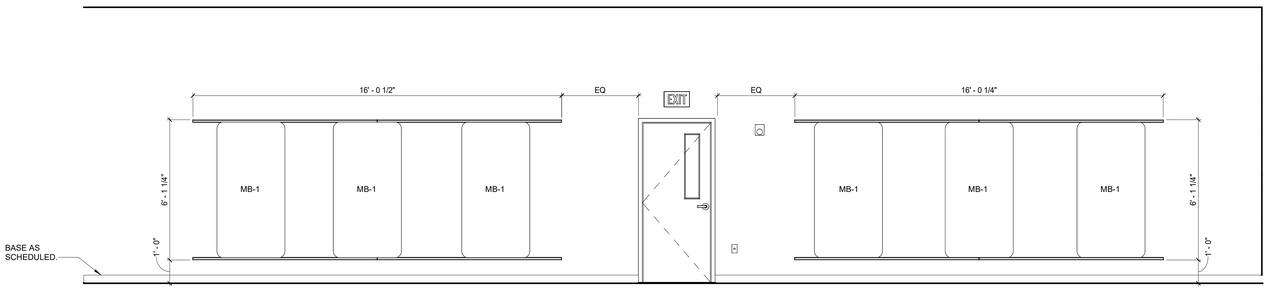
3 CONFERENCE ROOM 108 STOREFRONT FILM/TYPICAL SF-8 LAYOUT
3/8" = 1'-0"



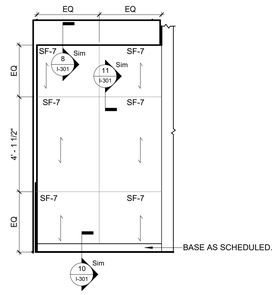
4 CLASSROOM 118 SOUTH WALL
3/8" = 1'-0"



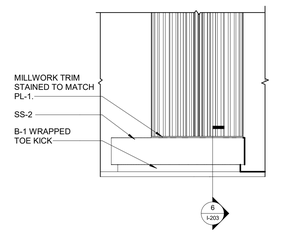
5 ENLARGED CEILING PLAN OF SF-7 PANEL NICHE
1/4" = 1'-0"



6 CLASSROOM 227 EAST WALL
3/8" = 1'-0"



7 ELEVATION OF LOBBY SF-7 NICHE
3/8" = 1'-0"



8 ELEVATION OF LOBBY BENCH
3/8" = 1'-0"

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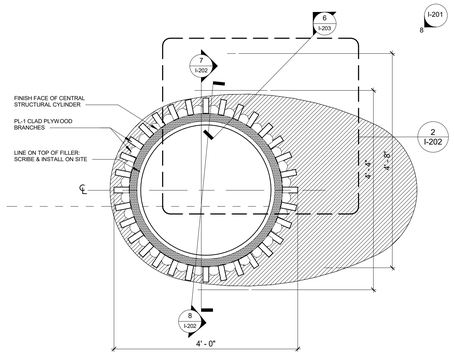
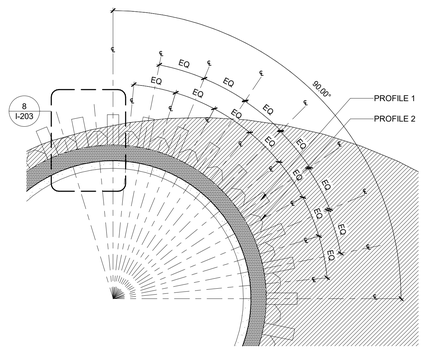
INTERIOR ELEVATIONS

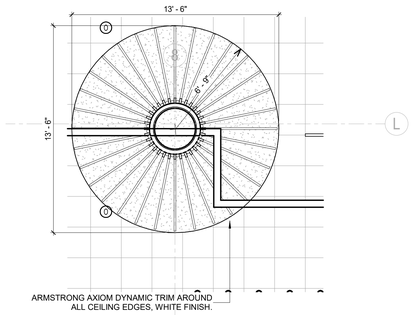
I-201



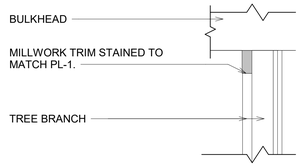
1 PLAN VIEW OF TREE
3/4" = 1'-0"



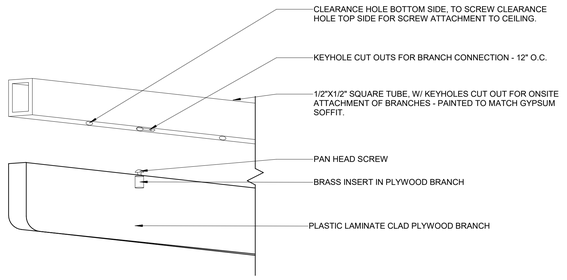
2 PLAN DETAIL - TREE/MILLWORK
1 1/2" = 1'-0"



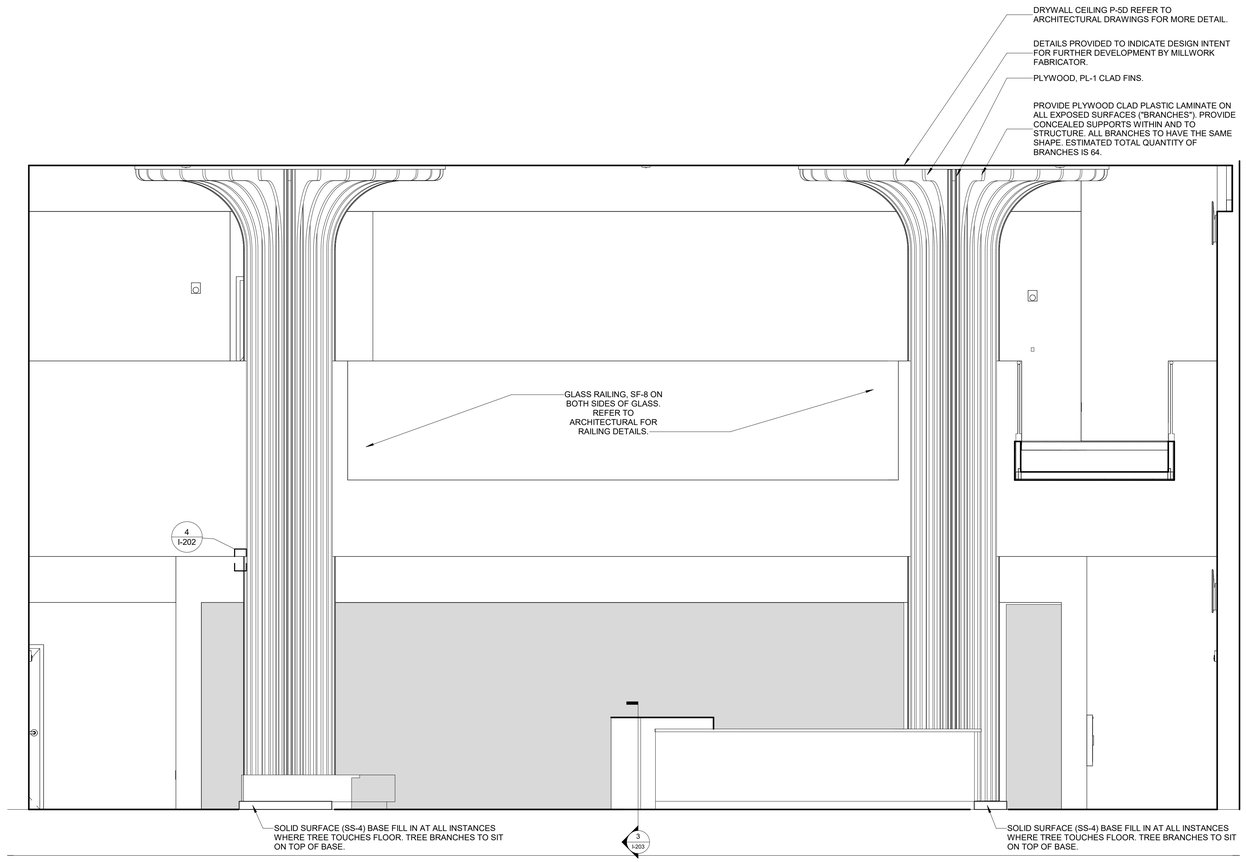
3 ENLARGED CEILING PLAN DETAIL - TREE OPENING
1/4" = 1'-0"



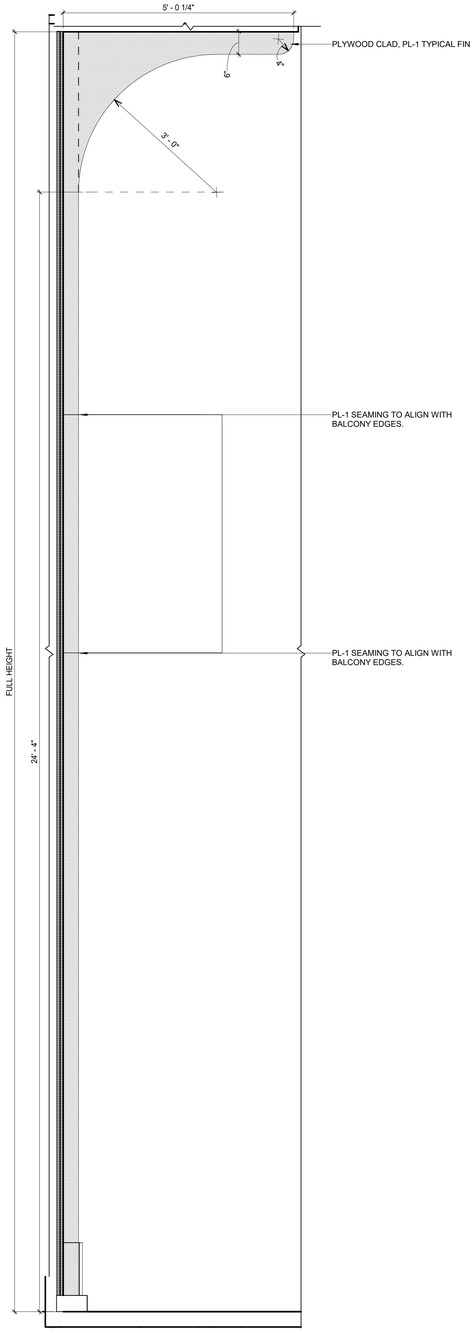
4 TREE TO STRUCTURE DETAIL
3" = 1'-0"



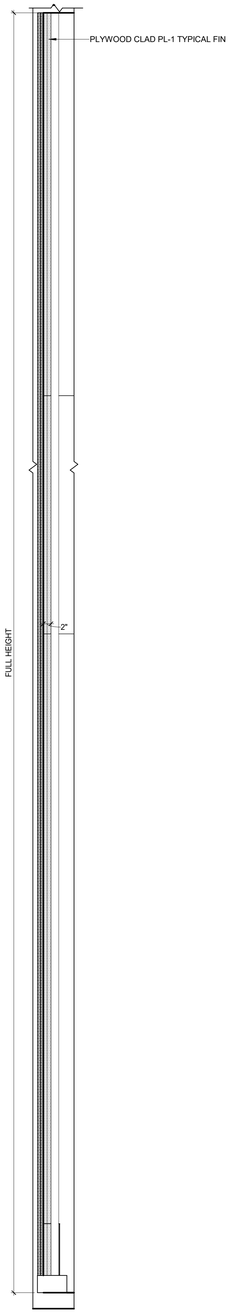
5 DETAIL @ BRANCH TO CEILING CONNECTION ISO
3/8" = 1'-0"



6 FRONT ELEVATION OF TREES
3/8" = 1'-0"



7 TREE COLUMN PROFILE 1
3/4" = 1'-0"



8 TREE COLUMN PROFILE 2 (SPACER)
3/4" = 1'-0"

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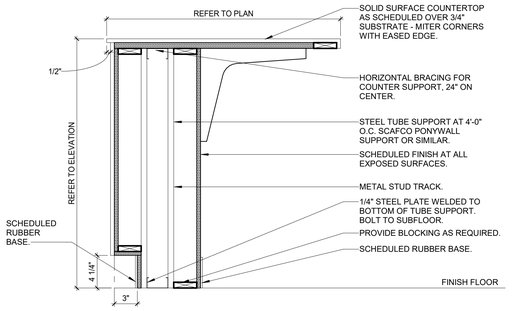
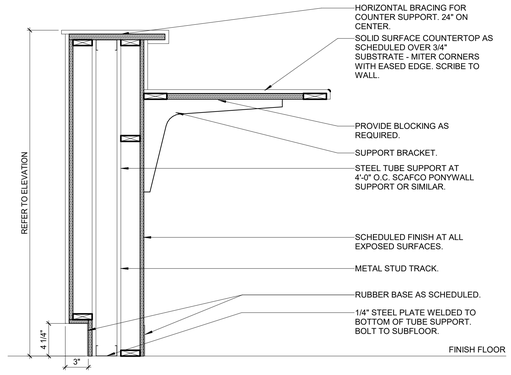
TREE COLUMN DETAILS AND ELEVATIONS

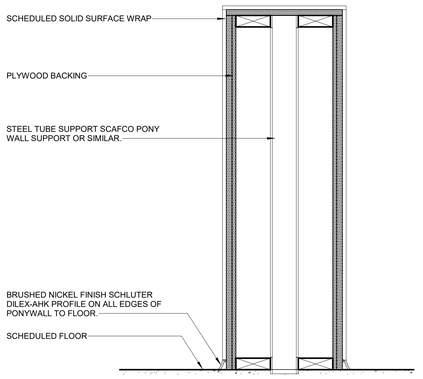
I-202



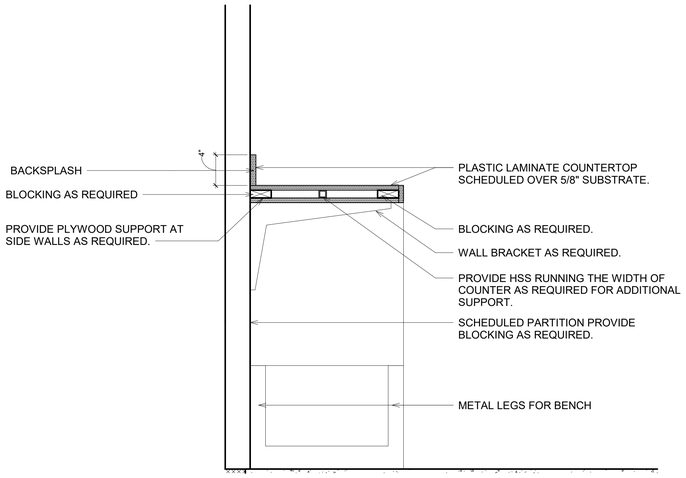
1 SECTION OF NURSE STATION ADA COUNTER
1 1/2" = 1'-0"



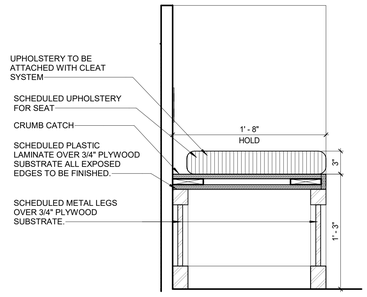
2 SECTION OF HIGH PARTITION AT NURSE STATION
1 1/2" = 1'-0"



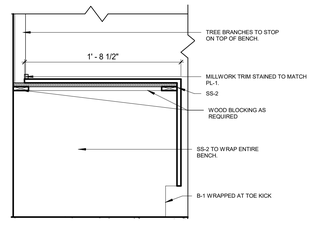
3 SECTION THROUGH RECEPTION PONY WALL
1 1/2" = 1'-0"



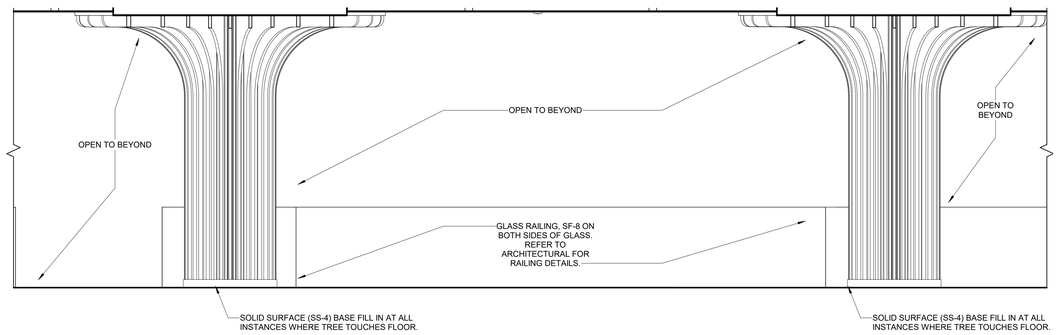
4 SECTION THROUGH CORRIDOR MILLWORK COUNTER
1 1/2" = 1'-0"



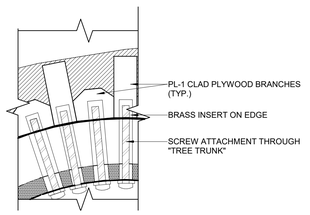
5 SECTION THROUGH UPHOLSTERED CORRIDOR BENCH
1 1/2" = 1'-0"



6 SECTION THROUGH LOBBY BENCH
1 1/2" = 1'-0"



7 ELEVATION OF TREES, SECOND FLOOR
3/8" = 1'-0"



8 DETAIL AT BRANCH TO TRUNK
3" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HLG studio
1401 Peachtree Street NE, Suite 200
Atlanta, GA 30309
404.760.7788
www.HLGstudio.com

CLIENT

GULF COAST STATE COLLEGE NURSING SKILLS LAB

5230 US-98
PANAMA CITY, FL, 32401

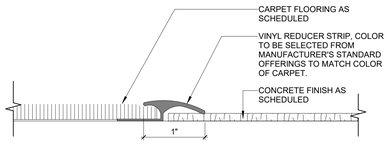
REVISIONS

NO.	DESCRIPTION	DATE

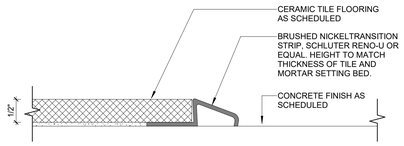
Project Number	**25.008.01**
Dated	08/29/2025

MILLWORK & ADDITIONAL TREE DETAILS

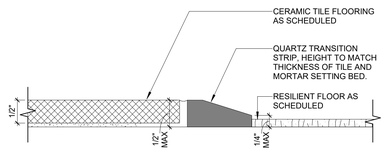
I-203



1 CARPET TO RESILIENT TRANSITION
12" = 1'-0"



2 CERAMIC TILE TO CONCRETE TRANSITION
12" = 1'-0"



3 CERAMIC TILE TO RESILIENT FLOORING TRANSITION
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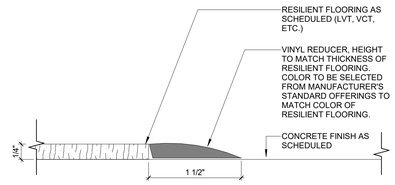
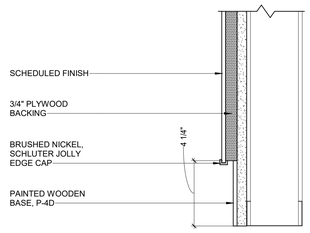
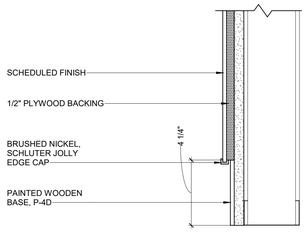


4 LVT OR VCT TO CONCRETE TRANSITION
12" = 1'-0"



5 SECTION OF SF-6 TO BASE
3" = 1'-0"



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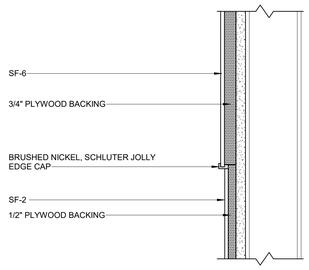
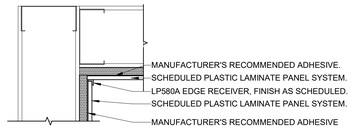
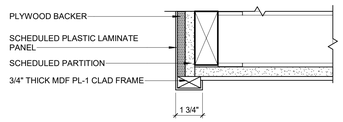
3" = 1'-0"



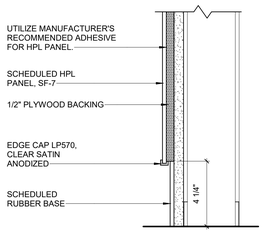
7 SECTION OF SF-6 TO SF-2
3" = 1'-0"



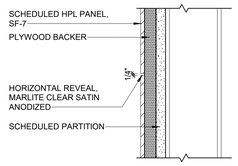
8 SF-7 TO CEILING DETAIL
3" = 1'-0"



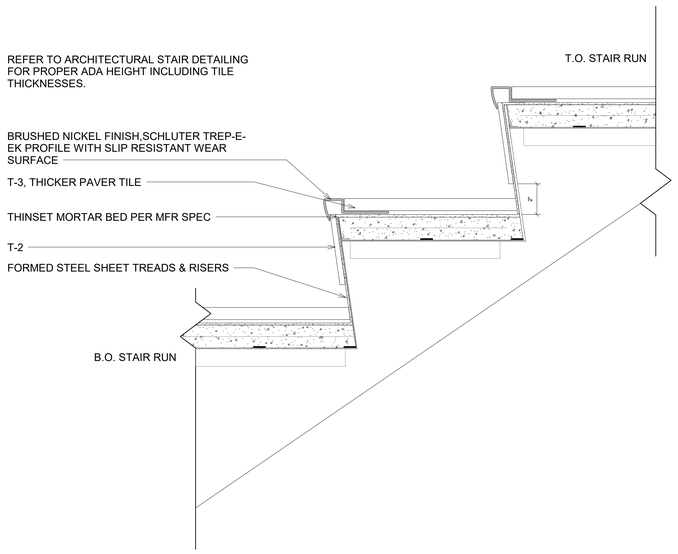
9 SECTION OF LOBBY NICHE PICTURE FRAME DETAIL
3" = 1'-0"



10 SECTION OF SF-7 TO BASE
3" = 1'-0"



11 SF-7 REVEAL DETAIL
3" = 1'-0"



12 SECTION THROUGH LOBBY STAIR
3" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

HLG studio
1401 Peachtree Street NE, Suite 200
Atlanta, GA 30309
404.760.7788
www.HLGstudio.com

CLIENT

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PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25.008.01**
Dated	08/29/2025

TRANSITION DETAILS

I-301

DESIGN CRITERIA

EACH BULIDING SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH NO INSIDE HOSE STREAM ALLOWANCE AND FIRE PROTECTION SPRINKLER DENSITY VALUES AS FOLLOWS:

LIGHT HAZARD = 0.10 GPM/SF WITH A MAXIUMUM OF 225 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP 1 = 0.15 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP II = 0.20 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

THE SPRINKLER DESIGN SHALL BE BASED ON THE MOST HYDRAULICALLY DEMANDING 1500 SF. THE CONTRACTOR IS ALLOWED TO REDUCE THE DESIGN AREA BASED ON THE USE OF QUICK RESPONSE SPRINKLERS AND CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.

THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION. WATER SUPPLY SHALL BE PRESUMED AVAILABLE AT THE POINT OF CONNECTION OF THE FIRE MAIN TO THE WATER SUPPLY SYSTEM. THE FOLLOWING FLOW TEST DATA WAS OBTAINED BY THE ENGINEER ON APRIL 30, 2025, PROVIDED BY RUSTY PITTS.

HYDRANT #1:

STATIC = 62 PSI

RESIDUAL = 20 PSI

HYDRANT #2:

FLOWING 650 GPM

OUTLET SMOOTH & ROUNDED COEF. 0.90

WATER BASED SPRINKLER SYSTEM REQUIREMENTS

1. THE POINT OF SERVICE, BACKFLOW PREVENTER, & FDC ARE SHOWN FOR REFERENCE ONLY. REFER TO THE CIVIL SITE UTILITY PLAN FOR FURTHER INFORMATION.
2. THE BUILDING SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH NFPA 13-2019 AND 2023 FLORIDA FIRE PREVENTION CODE (8TH EDITION).
3. REFER TO PLAN SHEETS AND HAZARD CLASSIFICATION LEGEND FOR HAZARD CLASSIFICATION OF EACH ROOM OR AREA.
4. THE NEW SYSTEMS SHALL SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13.

   LIGHT HAZARD: 0.10 GPM/SF, MAX 225 SF PER HEAD, 15 FT MAX NOMINAL SPACING; ORDINARY TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 1: 0.15 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 2: 0.20 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.

   FOR ADDITIONAL REQUIREMENTS, REFER TO DESIGN CRITERIA NOTES ON THIS SHEET.
5. THE POINT OF SERVICE CONNECTION IS TO A MUNICIPAL POTABLE WATER MAIN.
6. REFER TO DESIGN CRITERIA NOTES ON THIS SHEET FOR FLOW TEST DATA.
7. REFER TO RISER DETAIL FOR VALVE AND SUPERVISION REQUIREMENTS.
8. MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED IN THIS PROJECT.
9. REFER TO CIVIL SITE UTILITY DRAWINGS FOR BACKFLOW PREVENTER. MAXIMUM DESIGN PRESSURE DROP SHALL NOT EXCEED 5 PSI.
10. REFER TO DIVISION 21 SPECIFICATIONS FOR QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS.
11. FIRE PUMP IS REQUIRED.
12. NO ON SITE FIREWATER STORAGE TANK IS REQUIRED.

1 FIRE PROTECTION SITE PLAN
FP001
SCALE: 1" = 80'-0"

PROJECT NORTH TRUE NORTH

GENERAL NOTES

1. IT IS NOTED THAT SOME AREAS WILL BE REQUIRED TO BE PROTECTED AS ORDINARY HAZARD (MECHANICAL ROOMS, ETC.) THESE AREAS HAVE BEEN IDENTIFIED BY A DIFFERENT HATCHING PATTERN THEN THE LIGHT HAZARD AREAS ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT WATER FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY.
3. MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
4. CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
6. ALL PIPING SHALL OBSERVE PROPER PITCH. PROVIDE DRAINS FOR LOW POINTS.
7. THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
8. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICE SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
9. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
10. ALL UNDERGROUND PIPING SHALL BE DUCTILE IRON WITH FITTINGS AND JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND.
11. ALL ABOVE GROUND WET SPRINKLER PIPE THAT IS THREADED SHALL BE SCHEDULE 40 BLACK WITH BLACK CAST/MALLEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND. CPVC PIPING IS NOT ACCEPTABLE.
12. ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS WELDED OR ROLL-GROOVED SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALLEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. CPVC PIPING IS NOT ACCEPTABLE.
13. TRENCHING SHALL BE PERFORMED BY HAND WHERE THERE IS THE POSSIBILITY OF ENCOUNTERING OBSTACLES OR EXISTING UTILITY LINES. WHERE CLEAR AND UNOBSTRUCTED AREAS ARE TO BE EXCAVATED, APPROPRIATE MACHINE EXCAVATION METHODS MAY BE EMPLOYED. PROVIDE PROPER BACKFILL AS REQUIRED PER SPECIFICATIONS.
14. INSTALL SPRINKLER HEADS IN CENTER OF TILE IN ACCOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.
15. DO NOT LOCATE INSPECTOR'S TEST LOCATIONS OR DRAINS IN FINISHED SPACES. INDICATE ALL LOCATIONS OF EXPOSED PIPING ON SHOP DRAWINGS.
16. SITE PIPING BEYOND 5'-0" OUTSIDE OF BUILDING SHOWN FOR REFERENCE ONLY. REFER TO CIVIL SITE UTILITY PLANS FOR BACK FLOW PREVENTER AND HYDRANT LOCATIONS.
17. FLEXIBLE CONNECTIONS TO SPRINKLER HEADS ARE NOT ALLOWED.
18. PROVIDE SIGNED AND SEALED LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS FOR DOE SUBMITTAL AFTER APPROVAL BY ENGINEER AND LOCAL AHJ.
19. DIESEL FIRE PUMP AND DIESEL FUEL TANK LOCATED IN THE FIRE PUMP ROOM SHALL BE INSTALLED AND PROTECTED IN ACCORDANCE WITH NFPA 20.

SYSTEM ENGINEERING SUMMARY

AREA SERVICED (WET PIPE)	30,103 SF
HYDRAULICALLY MOST REMOTE AREA	1500 SF
HAZARD CLASSIFICATION OF REMOTE AREA	ORD II
SYSTEM DESIGN FLOW RATE (INDOOR)	390 GPM
OUTSIDE HOSE STREAM DEMAND	250 GPM
TOTAL WATER DEMAND	640 GPM
WATER PRESSURE DATA	
END HEAD PRESSURE	7.0 PSI
ELEVATION LOSS	13 PSI
OUTSIDE FRICTION LOSS	3.34 PSI
BACK FLOW PREVENTOR	5 PSI
SAFETY FACTOR	10 PSI
AVAILABLE INSIDE FRICTION LOSS	20 PSI

LEGEND

Symbol	Abbr.	Description
———	FW	FIRE WATER SUPPLY
— W —	PW	POTABLE WATER SUPPLY
◉		CEILING MOUNTED PENDANT HEAD
◎		UPRIGHT HEAD
▽		SIDEWALL HEAD
▽F		FREEZE PROOF SIDEWALL HEAD (EXTENDED COVERAGE)

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4452 Clinton Street, Marianna, Florida 32446
850.526.3447 Project Number: 2024-096
Drawn By: TLC
Florida Certificate of Authorization: 27825
David N Watford, PE Florida License 58208
Checked By: DNW

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25004
Dated	08.29.2025

FIRE PROTECTION SITE PLAN

FP001

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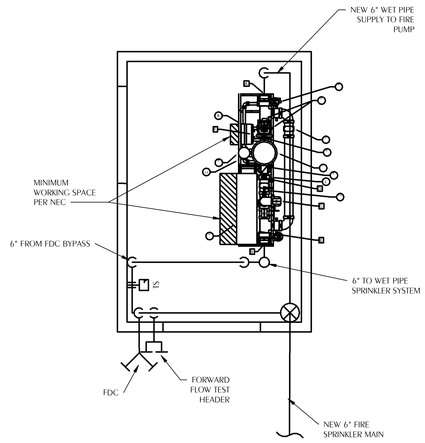
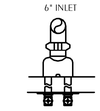


FIRE PUMP SCHEDULE

MARK	DESCRIPTION
1	HORIZONTAL SPLIT CASE ENGINE DRIVEN FIRE PUMP: CUMMINS MODEL - CFP5E-F10 TIER-3. 4X3 M, 400 GPM @ 78PSI 2600 RPM, IMPELLER PATTERN D02-127255 100HP, DIESEL ENGINE, SUCTION & DISCHARGE FLANGE, HOT START 120 VOL
2	FIRE PUMP CONTROLLER WITHOUT TRANSFER SWITCH: FIRETROL 1100-JL12N-N30, 12V, DUAL BATTERY OPERATION WITH BUILT -IN CHARGER, LOW FUEL LEVEL SWITCH
3	OS&Y GROOVED GATE VALVE WITH TAMPER SWITCH
4	BUTTERFLY ISOLATION VALVE WITH TAMPER SWITCH
5	GROOVED CHECK VALVE
6	SUCTION AND DISCHARGE GAUGES
7	CASING RELIEF VALVE
8	JOCKEY CONTROLLER:: FIRETROL FTA570F-AG001Ii, 208V/3 PHASE, 60 CYCLE, 1HP, TEFC ENCLOSURE
9	JOCKEY PUMP :: WEBTROL NVkB9FE3T, RATED FOR 5 GPM 102PSI, 1HP, 3450RPM, STACKABLE CAST IRON, 3PHASE, 60 CYCLE, 208V
10	1/2" PRESSURE SENSING LINE
11	SYSTEM MOUNTING STRUCTURAL BASE (SKID)
12	JOCKEY RELIEF VALVE (OPTIONAL; NOT SHOWN)
A	6" SUCTION, GROOVED
B	6" DISCHARGE, GROOVED
C	6" HOSE HEADER, GROOVED
D	CASING RELIEF VALVE, 3/4"FNPT
E	FIRE PUMP CONTROLLER INCOMING ELECTRICAL
F	JOCKEY PUMP CONTROLLER INCOMING ELECTRICAL

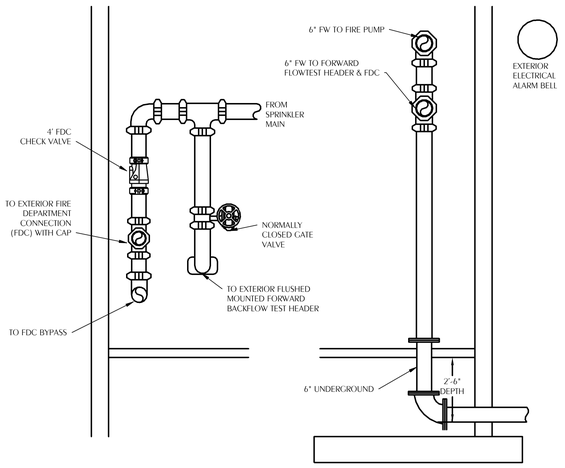
NOT SHOWN:
120 GALLON DOUBLE WALL EXTERIOR FUEL TANK WITH LEAK SENSING
FLOAT SWITCH ASSEMBLY.
FLEXIBLE EXHAUST CONNECTOR AND MUFFLER



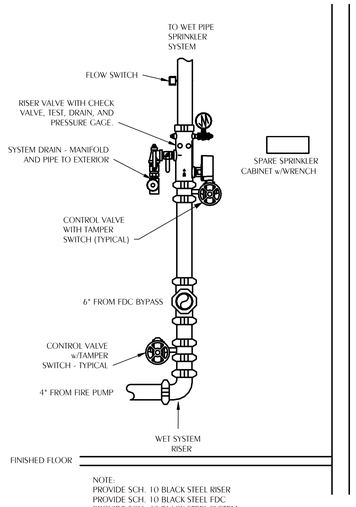
TWO 2-1/2" THREADED HOSE OUTLETS WITH CAP
PLAN VIEW

FRONT VEIW

2 FORWARD FLOWTEST HEADER DETAIL
FP002 SCALE: NONE



NORTH SECTION EAST SECTION



NOTE:
PROVIDE SCH. 10 BLACK STEEL RISER
PROVIDE SCH. 10 BLACK STEEL FDC
PROVIDE SCH. 40 BLACK STEEL SYSTEM DRAIN (THREADED), ROUTE DIRECTLY TO EXTERIOR.

SOUTH SECTION

TWO 2-1/2" THREADED HOSE OUTLETS WITH CAP
PLAN VIEW

FRONT VEIW

3 FDC DETAIL
FP002 SCALE: NONE

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: TLC Checked By: **DNW**

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

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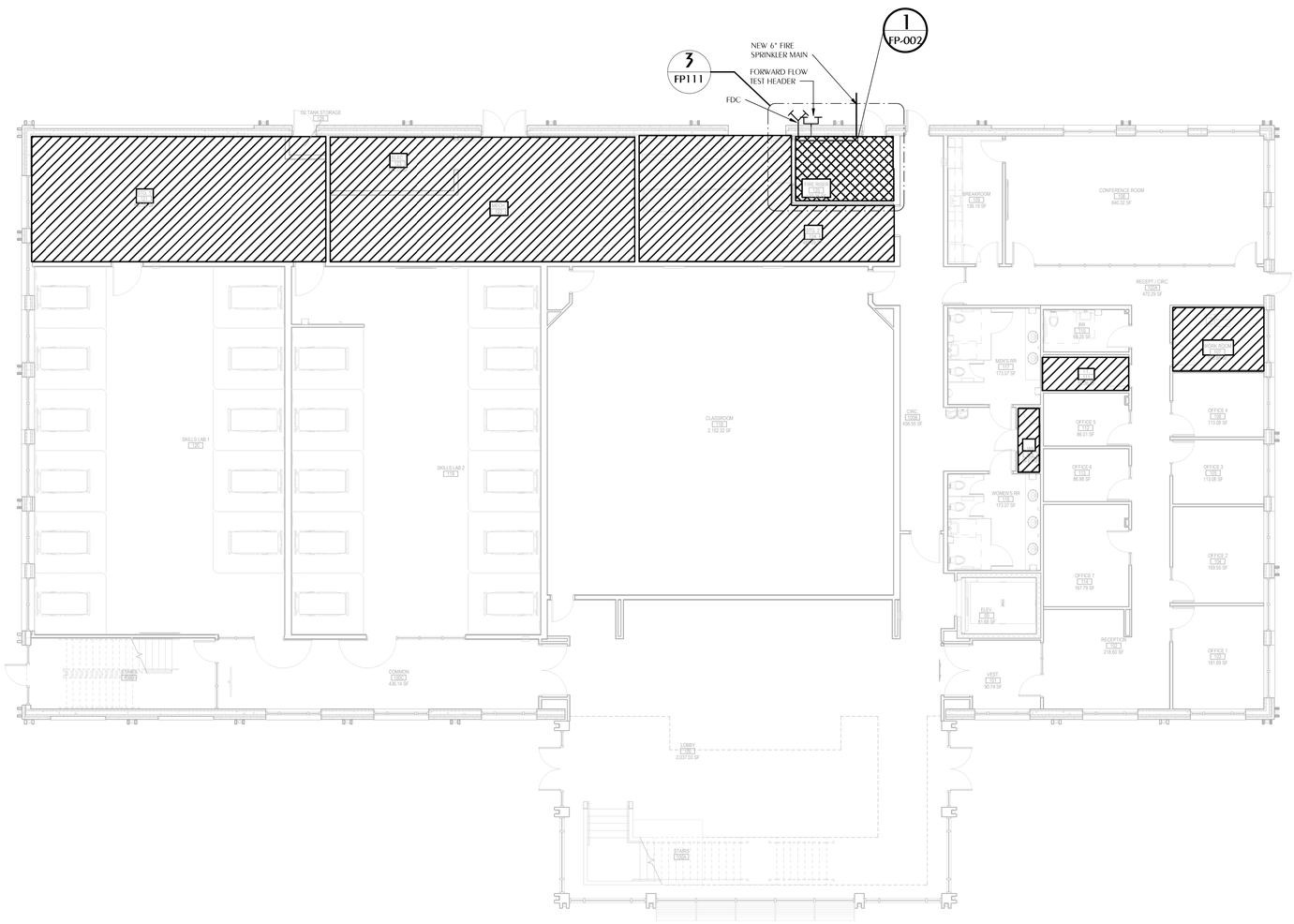
REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

FIRE PROTECTION DETAILS

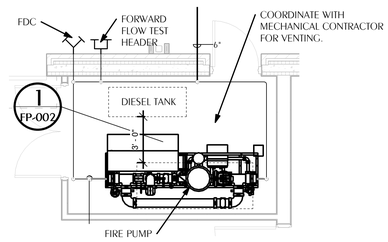
FP002



FIRE PROTECTION FLOOR PLAN-LEVEL 1

PROJECT NORTH / TRUE NORTH — 1 FP111 — SCALE: 1/8" = 1'-0"

HAZARD CLASSIFICATION	
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	EXTRA HAZARD GROUP 2



ENLARGED FIRE PUMP ROOM

PROJECT NORTH / TRUE NORTH — 3 FP111 — SCALE: 1/4" = 1'-0"

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: TLC Checked By: **DNW**

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

FIRE PROTECTION FLOOR PLAN-LEVEL 1

FP111

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HAZARD CLASSIFICATION

	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	EXTRA HAZARD GROUP 2

N PROJECT NORTH

N TRUE NORTH

1 FP121

FIRE PROTECTION FLOOR PLAN-LEVEL 2

SCALE: 1/8" = 1'-0"

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AR0017640
455 Harrison Avenue
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Panama City, Florida 32401
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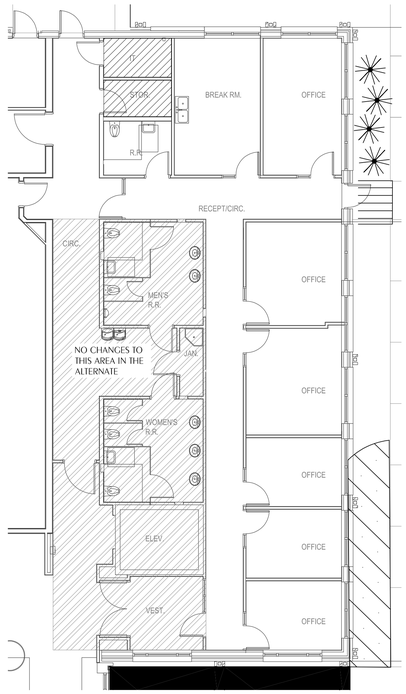
FIRE PROTECTION FLOOR PLAN-LEVEL 2

FP121

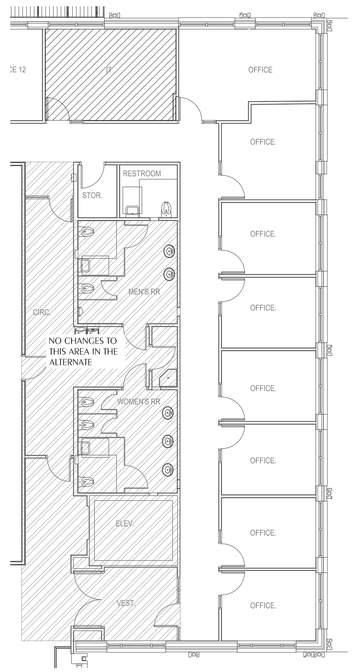
HAZARD CLASSIFICATION	
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2



FIRE PROTECTION ALTERNATE PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH



FIRE PROTECTION ALTERNATE PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

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FIRE PROTECTION PLANS - ALTERNATE

FP800

LEGEND

———	S OR W	SOIL OR WASTE PIPING
- - - -	V	VENT PIPING
— — —	CW	COLD WATER SUPPLY PIPING
— - - —	HW	HOT WATER SUPPLY PIPING
———	HWR	HOT WATER RETURN PIPING
— · · —	TW	TEMPERED WATER PIPING (85°F)
——G——G——	G	GAS PIPING
	GV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	FD	FLOOR DRAIN WITH TRAP PRIMER CONNECTION
	COTG	CLEANOUT TO GRADE
		UNION
	VTR	VENT THRU ROOF
1		SHEET NOTE
		POINT OF CONNECTION TO EXISTING
S		SOLENOID VALVE
	SS	SERVICE SINK
	WC	WATER CLOSET
	TP	TRAP PRIMER
	EWH	ELECTRIC WATER HEATER
	WHA	WATER HAMMER ARRESTOR TYPE A
	WHB	WATER HAMMER ARRESTOR TYPE B
	WHC	WATER HAMMER ARRESTOR TYPE C
	L	LAVATORY
	UR	URINAL
	KW	KILOWATT
	TCV	THERMOSTATIC CONTROL VALVE
	(E)	EXISTING
	(M)	INDICATES MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
	(C)	INDICATES CIVIL EQUIPMENT, REFER TO CIVIL DRAWINGS.

GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH EXISTING SITE UTILITIES. REPORT ANY CONFLICT WITH ARCHITECT.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING. COORDINATE WITH EXISTING CONDITIONS.
4. ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.
8. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
9. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
10. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
11. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
12. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.
13. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PLUMBING.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	FIXTURE CONNECTIONS-INCHES		
		CW	HW	W
WC-1	WATER CLOSET (ELECTRONIC)	1	-	3
WC-2	WATER CLOSET (ELECTRONIC)	1	-	3
L-1	LAVATORY (ELECTRONIC)	3/8	3/8	1-1/4
L-2	LAVATORY (ELECTRONIC)	3/8	3/8	1-1/4
L-3	LAVATORY	3/8	3/8	1-1/4
UR-1	URINAL (ELECTRONIC)	1/2	-	2
SK-1	SINGLE COMPARTMENT SINK	1/2	1/2	2
SK-2	SINGLE COMPARTMENT SINK (EYEWASH)	1/2	1/2	2
HS-1	HAND SINK (EYEWASH)	1/2	1/2	2
HS-2	HAND SINK (EYEWASH)	1/2	1/2	2
MR-1	MOP RECEPTOR (24"x24"x12")	1/2	1/2	3
MR-2	MOP RECEPTOR (36"x24"x12")	1/2	1/2	3
SH-1	SHOWER (HANDICAP)	1/2	1/2	2
EWH-1	ELECTRIC WATER HEATER	1-1/4 INLET	1-1/4 OUTLET	-
EWH-2	ELECTRIC WATER HEATER	3/4 INLET	3/4 OUTLET	-
CP-1	CIRCULATION PUMP (INLINE)	-	3/4 FLANGE	-
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-
FD	FLOOR DRAIN	1/2	-	3
HDFD	HEAVY DUTY FLOOR DRAIN	-	-	4
TD-1	TROUGH DRAIN	-	-	4
WH	RECESSED WALL HYDRANT	3/4	-	-
MV-1	WATER MIXING VALVE	1/2	1/2	-
TP-1	TRAP PRIMER	1/2	-	-
SP-1	SUMP PUMP	-	-	-
HR-1	HOSE REEL	-	-	-
UB-1	UTILITY BOX (ICE MAKER HOOK-UP)	1/2	-	-
UB-2	UTILITY BOX (CONDENSATE)	-	-	2
AC-1	AIR COMPRESSOR	-	-	-
VP-1	VACUUM PUMP	-	-	-

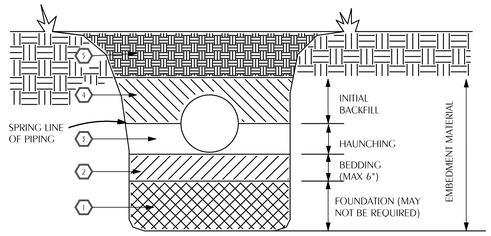
1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

MEDICAL GAS EQUIPMENT SCHEDULE

MARK	EQUIPMENT DESCRIPTION	REMARKS
MG-1	O2 MANIFOLD	-

1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, Ii OR III MATERIAL SHALL BE HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
5. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL- LOADED.

NOTE:
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE.



EMBEDMENT MATERIALS

CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.

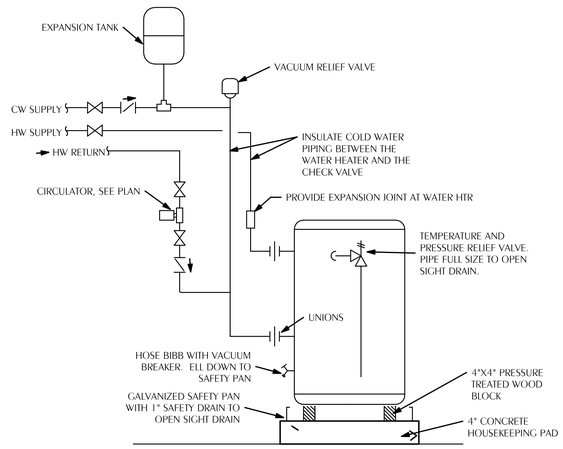
CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.

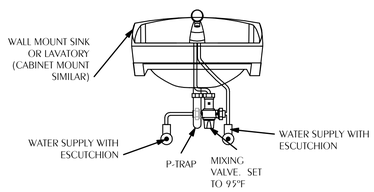
CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

1 EXCAVATION AND BACKFILL DETAIL
P-001 SCALE: NONE

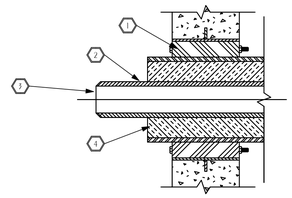


2 FLOOR MOUNTED ELECTRIC WATER HEATER
P-001 SCALE: NONE

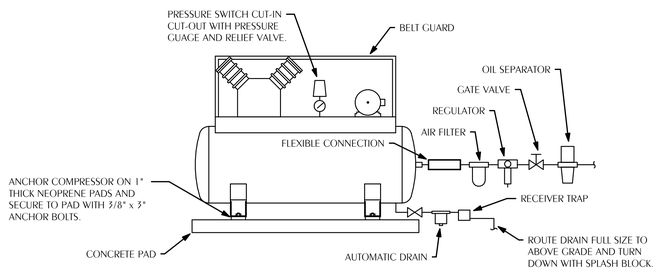


3 UNDER SINK MIXING VALVE DETAIL
P-001 SCALE: NONE

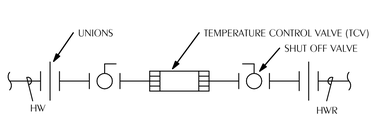
TYPICAL FOR ALL L-1, L-2, L-3, SK-1, SK-2, HS-1, HS-2



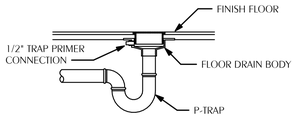
4 TYPICAL PIPE PENETRATION OF WALL
P-001 SCALE: NONE



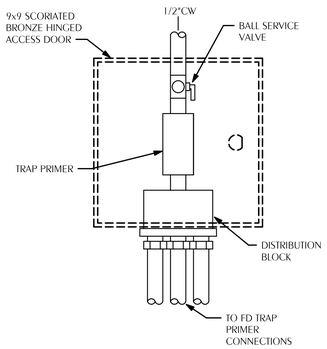
5 AIR COMPRESSOR
P-001 SCALE: NONE



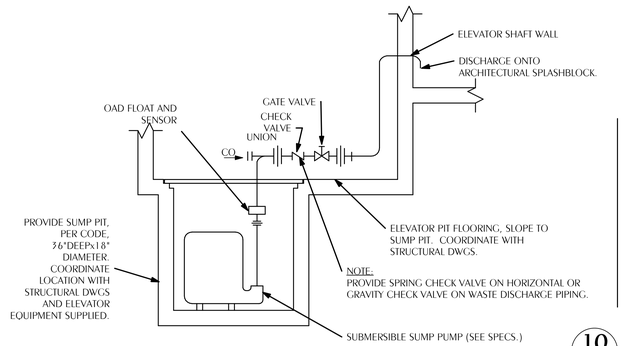
6 TEMPERATURE CONTROL VALVE DETAIL
P-001 SCALE: NONE



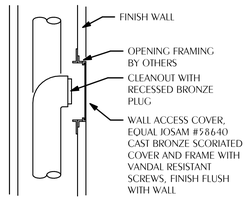
7 FLOOR DRAIN WITH TRAP PRIMER
P-001 SCALE: NONE



8 TRAP PRIMER DETAIL
P-001 SCALE: NONE



9 SUMP PUMP DETAIL
P-001 SCALE: NONE



10 CLEANOUT TO WALL
P-001 SCALE: NONE

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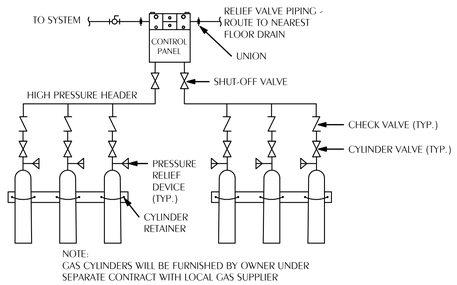
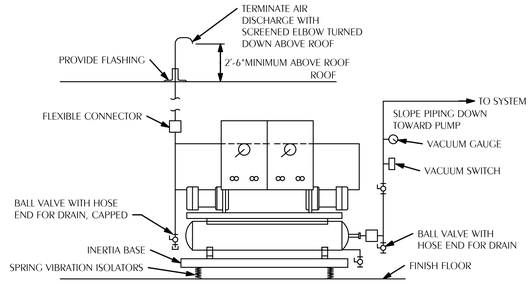
PLUMBING LEGEND, SCHEDULE, DETAILS & NOTES

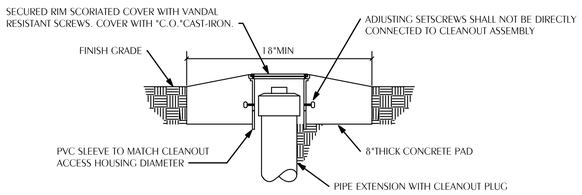
P-001



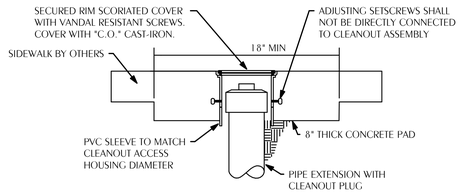
1 MEDICAL GAS MANIFOLD DETAIL
P-002 SCALE: NONE



2 MEDICAL VACUUM PUMP PIPING DETAIL
P-002 SCALE: NONE



3 CLEANOUT TO GRADE
P-002 SCALE: NONE



4 CLEAN OUT TO SIDEWALK
P-002 SCALE: NONE

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PLUMBING DETAILS

P-002

PLUMBING FIXTURE SPECIFICATIONS

WC-1 WATER CLOSET, FLOOR-MOUNT (HANDICAP, ELECTRONIC VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. PROVIDE QUIET CONCEALED DIAPHRAGM TYPE ELECTRONIC 6VDC MOTOR ACTUATOR, SENSOR AND OVER-RIDE BUTTON, CHECK ANGLE STOP, NON-HOLD-OPEN FEATURE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGES, VACUUM BREAKER, CHROME PLATED WALL COVER PLATES WITH VANDAL RESISTANT SCREWS, ALL EXPOSED PARTS CHROME PLATED, HARDWIRED WITH POWER CONVERTER. CONTROL CIRCUIT SHALL BE SOLID STATE 24V INPUT AND OUTPUT INITIATING DELAY FUNCTIONS. TRANSFORMER, 120V PRIMARY, 24V SECONDARY, UL LISTED SERVING UP TO TEN CLOSET VALVES, COORDINATE TRANSFORMER WITH MAXIMUM NUMBER OF VALVES FURNISHED, LOW VOLTAGE WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET	ZURN Z5665-BWL1
VALVE	ZURN ZEMS6000AV-IS
SEAT	ZURN Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	ZURN Z5972-COMB
POWER CONVERTER	ZURN P6000-HW6

WC-2 WATER CLOSET, FLOOR-MOUNT (STANDARD, ELECTRONIC VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, SIPHON JET, WHITE, WITH 1-1/2" TOP SPUD, 15" STANDARD HEIGHT. PROVIDE QUIET CONCEALED DIAPHRAGM TYPE ELECTRONIC 6VDC MOTOR ACTUATOR, SENSOR AND OVER-RIDE BUTTON, CHECK ANGLE STOP, NON-HOLD-OPEN FEATURE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGES, VACUUM BREAKER, CHROME PLATED WALL COVER PLATES WITH VANDAL RESISTANT SCREWS, ALL EXPOSED PARTS CHROME PLATED, HARDWIRED WITH POWER CONVERTER. CONTROL CIRCUIT SHALL BE SOLID STATE 24V INPUT AND OUTPUT INITIATING DELAY FUNCTIONS. TRANSFORMER, 120V PRIMARY, 24V SECONDARY, UL LISTED SERVING UP TO TEN CLOSET VALVES, COORDINATE TRANSFORMER WITH MAXIMUM NUMBER OF VALVES FURNISHED, LOW VOLTAGE WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET	ZURN Z5665-BWL1
VALVE	ZURN ZEMS6000AV-IS
SEAT	ZURN Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	Z5972-COMB
POWER CONVERTER	ZURN P6000-HW6

L-1 LAVATORY, WALL-MOUNT, ELECTRONIC (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED HARD-WIRED CHROME PLATED CAST BRASS METERING FAUCET WITH COVER PLATE AND SENSOR OPERATION. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH A WHITE FORM FITTING EVA FOAM TUBULAR SINK TRAP COVER FOR P-TRAP, SUPPLY STOPS, AND RISERS. COVER SHALL BE SECURED WITH SECURE HOOK AND LOOP (VELCRO). LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. PROVIDE WITH MV-1.

LAVATORY	ZURN Z5341
FAUCET	ZURN Z-6901-HW6-CP4-MV
POWER CONVERTER	ZURN P6000-HW6
SUPPLY W/STOP	ZURN Z8800LRLK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746
INSULATION KIT	OATEY DEARBORN ADA100
AERATOR	ZURN -5M
CARRIER	ZURN Z-1231
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375
MIXING VALVE	WATTS LFUSG-B

L-2 LAVATORY, COUNTERTOP, ELECTRONIC (HANDICAP):

VITREOUS CHINA 19" X 16", UNDERMOUNT, OVAL, COLOR "WHITE", 0.5 GPM, FRONT OVERFLOW. PROVIDE CHROME PLATED ELECTRONIC PROXIMITY SENSOR OPERATED LAVATORY FAUCET WITH POWER KIT FOR HARD WIRED INSTALLATION, INTEGRAL PERFORATED CAST BRASS STRAINER WITH 1-1/4" TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. COORDINATE POWER CONVERTER WITH MAXIMUM NUMBER OF VALVES FURNISHED, LOW VOLTAGE WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING WRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON TYPE SUPPLIES WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FINAL APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. COORDINATE POWER CONVERTER WITH MAXIMUM NUMBER OF LAVATORIES FURNISHED.

LAVATORY	ZURN Z5220
FAUCET	ZURN Z6915-XL
SUPPLY W/STOP	ZURN 8800LRLK-PC
P-TRAP	ZURN Z8700-PC
DRAIN	ZURN Z8743-PC
INSULATION KIT	ZURN Z8946-3-NT
AERATOR	ZURN -FS
MIXING VALVE	WATTS LFUSG-B
POWER CONVERTER	ZURN P6000-HW6

L-3 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH WALL MOUNTED DURA-COATED SUPPORT PLATES WITH ARM SLEEVES, CONCEALED ARMS, AND MOUNTING FASTENERS, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE WATER FAUCET WITH 0.5 GPM AERATOR OUTLET AND SINGLE LEVER HANDLE. LAVATORY P-TRAP AND ANGLE STOP VALVE ASSEMBLY AND RISERS SHALL BE INSULATED WITH A WHITE FULLY MOLDED EVA FOAM TUBULAR COVER. COVERS SHALL JOIN USING SECURE FIT HOOK AND LOOP CONNECTION. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRONZE BODY, LIMITS HOT WATER BETWEEN 80F & 120F, DUAL CHECK VALVES, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS..

LAVATORY	ZURN Z5341
FAUCET	ZURN Z82200-3M
SUPPLY W/STOP	ZURN Z8800LRLK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746-PC
INSULATION KIT	OATEY DEARBORN ADA100
AERATOR	ZURN -3M
CARRIER	ZURN Z-1254
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375
MIXING VALVE	WATTS LFUSG-B

UR-1 URINAL, WALL-MOUNT (HANDICAP, HARD-WIRED, ELECTRONIC VALVE):

VITREOUS CHINA, 0.125 GALLONS PER FLUSH, SIPHON JET FLUSH, 3/4" TOP SPUD, AND 2" OUTLET URINAL. EXPOSED CHROME PLATED QUIET DIAPHRAGM TYPE HARD-WIRED ELECTRONIC 7.6VDC MOTOR ACTUATOR, SENSOR AND OVER-RIDE PUSH BUTTON. MOUNT TO SATISFY ADA REQUIREMENTS, COORDINATE WITH ARCHITECTURAL DRAWINGS (TOILET ROOM ELEVATIONS) FOR FINAL MOUNTING HEIGHT. FURNISH FLOOR MOUNTED SINGLE CARRIER WITH HANGER PLATE, BEARING PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325.

URINAL	ZURN Z5738-U
VALVE	ZURN ZEMS6003AV-IS-ULF
URINAL FLANGE KIT	ZURN Z5976-URINAL
CARRIER	ZURN Z-1222
POWER SUPPLY	ZURN P6000-HW6
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375

SH-1 SHOWER (HANDICAP):

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. TWO WAY CHROME DIVERTER VALVE. BRASS SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. ABOVE CEILING MIXING VALVE WITH SOLDERED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80ºF & 120ºF, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. PROVIDE 6" CORE HOLE FOR DRAIN. ADA ROLL-IN SHOWER RECEPTOR SHALL BE: 62"X31-1/16", CENTER DRAIN, INTEGRAL ADA COMPLIANT THRESHOLD. COORDINATE WITH SHOWER PAN PROVIDED BY OTHERS.

SHOWER	ZURN Z-7301-SS-MT-DV-2P-HW
DRAIN	ZURN ZN-415 2" WITH 5" B
MIXING VALVE	WATTS MMV-US-M1
SHOWER RECEPTOR	INPRO 60"X30" ROLL-IN SHOWER BASE

EWC-1 ELECTRIC WATER COOLER (DUAL PURPOSE/TWO LEVELS/BOTTLE STATION):

WALL MOUNT, DUAL-PURPOSE UNIT, SELF-CONTAINED ELECTRIC WATER COOLER WITH SENSOR-ACTIVATED BOTTLE FILLING STATION. FURNISH FLOOR MOUNTED TWO LEVELS DOUBLE CARRIER WITH BEARING PLATE, HANGAR PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE TO FLOOR WITH 1/2" BOLTS AND ANCHORS. UNIT TO BE COMPLETE WITH HERMETIC AIR COOLED REFRIGERATION SYSTEM, COOLER PRE-COOLER, THERMOSTAT, SAFETY CONTROLS, CONDENSER FAN MOTOR, SILVER ION ANTIMICROBIAL PROTECTION ON KEY PLASTIC COMPONENTS, FLEXI-GUARD SAFETY BUBBLER, VERMIN PROOF INSULATION, HEAVY GAUGE STEEL CABINET, MOISTURE RESISTANT FINISH, QUIET OPERATION. TOP OF COOLER SHALL BE NO. 3 SATIN FINISH STAINLESS STEEL. COOLER CAPACITY SHALL BE 8.0 GPH, LAMINAR FLOW, VISUAL FILTER MONITOR, COOLING 80-DEGREE F WATER TO 50 DEGREE F. PROVIDE ONE-YEAR WARRANTY ON ENTIRE COOLER. PROVIDE CHROME PLATED STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE 1-1/2" CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. 115V/60HZ, SINGLE PHASE, 5 FULL LOAD AMPS, 370 RATED WATTS, HERMETICALLY-SEALED RECIPROCATING COMPRESSOR. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. FINISH TO BE SELECTED BY ARCHITECT. CERTIFIED TO NSF/ANSI 42, 53, 61, & 372. UL 399 REQUIREMENTS.

EDF	ELKAY LZSTL8WSSP
TRAP	ZURN Z-8702-PC
SUPPLIES	ZURN Z-8800LK
CARRIER	Z1225 BL

SK-1 SINGLE COMPARTMENT SINK:

19-1/2"X19"X7-1/2" DEEP (BOWL IS 16X13-1/2X7-3/8), TYPE 304, 18 GAUGE, 8" CENTERS, SELF RIMMING SINGLE COMPARTMENT, (18-8) NICKEL BEARING STAINLESS STEEL, BACK LEDGE SINK WITH SATIN FINISH AND SOUND DEADENING MATERIALS ON SIDE AND BOTTOM OF SINK. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING GOOSENECK SPOUT AND VACUUM BREAKER, STRAIGHT LEVER HANDLES, 2.2GPM, PRESSURE COMPENSATING AERATOR, STRAINER WITH REMOVABLE CRUMB CUP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. COORDINATE WITH CABINET SHOP DRAWINGS, BASE CABINET MUST BE A TRUE MINIMUM 24" DEEP BACK TO FRONT IN ORDER FOR SINK TO DROP INTO COUNTERTOP OPENING. SINK DRILLINGS SHALL ACCOMODATE FITTING INSTALLATION, ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED.

SINK	ELKAY LR1919
FAUCET	ZURN Z871B1-XL-HS-2F
STRAINER	ELKAY LK-35
SUPPLIES	ZURN Z-8800-LR-LK
P-TRAP	ZURN Z-8702-PC

SK-2 SINGLE COMPARTMENT SINK (EYEWASH):

PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING GOOSENECK SPOUT AND VACUUM BREAKER, STRAIGHT LEVER HANDLES, PRESSURE COMPENSATING AERATOR, STRAINER WITH REMOVABLE CRUMB CUP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. COORDINATE WITH CABINET SHOP DRAWINGS. SINK DRILLINGS SHALL ACCOMODATE FITTING INSTALLATION, ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. INSTALL FAUCET-MOUNT EYEWASH PER MANUFACTURERS' WRITTEN INSTRUCTIONS.

SINK	FURNISHED BY OTHERS
FAUCET	ZURN Z871B1-XL
STRAINER	ELKAY LK-35
SUPPLIES	ZURN Z-8800-LR-LK
P-TRAP	ZURN Z-8702-PC
EYEWASH	BRADLEY S19-200B

EWH-1 ELECTRIC WATER HEATER:

WATER HEATER SHALL BE GOLD SERIES COMMERCIAL ELECTRIC MODEL NO. DRE-52 AS MANUFACTURED BY A. O. SMITH. HEATER SHALL BE RATED AT 12.3KW, SIMULTANEOUS OPERATION, 208V/3PHASE, 60 CYCLE AC, AND LISTED BY UNDERWRITERS' LABORATORIES AND APPROVED TO THE NSF STANDARD 5 BY UL. TANK SHALL BE 50 GALLON CAPACITY. HEATER SHALL HAVE 150 PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. HEATER TANK SHALL HAVE A THREE YEAR LIMITED WARRANTY AS OUTLINED IN THE WRITTEN WARRANTY. MANUFACTURER SHALL SUPPLY ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. MEETS STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.

WATER HEATER	A. O. SMITH DRE-52
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

EWH-2 ELECTRIC WATER HEATER:

WATER HEATER SHALL BE GOLD SERIES COMMERCIAL ELECTRIC MODEL NO. DRE-52 AS MANUFACTURED BY A. O. SMITH. HEATER SHALL BE RATED AT 15KW, SIMULTANEOUS OPERATION, 208V/3PHASE, 60 CYCLE AC, AND LISTED BY UNDERWRITERS' LABORATORIES AND APPROVED TO THE NSF STANDARD 5 BY UL. TANK SHALL BE 50 GALLON CAPACITY. HEATER SHALL HAVE 150 PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. HEATER TANK SHALL HAVE A THREE YEAR LIMITED WARRANTY AS OUTLINED IN THE WRITTEN WARRANTY. MANUFACTURER SHALL SUPPLY ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. MEETS STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.

WATER HEATER	A. O. SMITH DRE-52
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

CP-1 CIRCULATOR PUMP (INLINE TYPE):

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT ECM PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ., WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING. TEMPERATURE AQUASTAT, MAINTAINS WATER TEMPERATURE BETWEEN 95ºF AND 115ºF. CIRCUIT SETTER CALIBRATED BALANCE VALVE, LEAD-FREE BRASS, WITH 1/4" NPT TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 1 GPM. PROVIDE CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110ºF.

CIRCULATOR	TACO 006E3
TIMER	TACO 265-3
AQUASTAT	TACO 563-2
CIRCUIT SETTER	XYLEM CB-1/2S LF
RECIRCULATION VALVE (TVC)	CIRCUIT SOLVER CS-1/2-110

HS-1 HAND SINK, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH WALL MOUNTED DURA-COATED SUPPORT PLATES WITH ARM SLEEVES, CONCEALED ARMS, AND MOUNTING FASTENERS, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE WATER FAUCET WITH 0.5 GPM AERATOR OUTLET AND SINGLE LEVER HANDLE. LAVATORY P-TRAP AND ANGLE STOP VALVE ASSEMBLY AND RISERS SHALL BE INSULATED WITH A WHITE FULLY MOLDED EVA FOAM TUBULAR COVER. COVERS SHALL JOIN USING SECURE FIT HOOK AND LOOP CONNECTION. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRONZE BODY, LIMITS HOT WATER BETWEEN 80F & 120F, DUAL CHECK VALVES, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. INSTALL FAUCET-MOUNT EYEWASH PER MANUFACTURERS' WRITTEN INSTRUCTIONS.

LAVATORY	ZURN Z5318
FAUCET	ZURN Z871B1-XL-3F
SUPPLY W/STOP	ZURN Z8800LRLK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746-PC
INSULATION KIT	OATEY DEARBORN ADA100
AERATOR	ZURN -3M
CARRIER	ZURN Z-1254
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375
MIXING VALVE	WATTS LFUSG-B
EYEWASH	BRADLEY S19-200B

HS-2 HAND SINK, COUNTERTOP:

15"X15" (BOWL IS 12X9-1/4X7-1/8), TYPE 304, 18 GAUGE, CENTER HOLE, 8" CENTERS, SELF RIMMING SINGLE COMPARTMENT WITH COVERED CORNERS, (18-8) NICKEL BEARING STAINLESS STEEL, BACK LEDGE SINK WITH SATIN FINISH AND SOUND DEADENING MATERIAL ON SIDES AND BOTTOM OF SINK. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING GOOSENECK SPOUT AND VACUUM BREAKER, STRAIGHT LEVER HANDLES, PRESSURE COMPENSATING AERATOR, STRAINER WITH REMOVABLE CRUMB CUP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL, WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. SINK DRILLINGS SHALL ACCOMODATE FITTING INSTALLATION ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. PROVIDE WITH MIXING VALVE. INSTALL FAUCET-MOUNT EYEWASH PER MANUFACTURERS' WRITTEN INSTRUCTIONS.

SINK	ELKAY BLR-15
FAUCET CENTER	ZURN Z-871B1-XL
STRAINER	ELKAY LK-35
SUPPLIES	ZURN Z-8800-LR LK
P-TRAP	ZURN Z-8702 PC
MIXING VALVE	MV-1
EYEWASH	BRADLEY S19-200B

MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

UNDER SINK MIXING VALVE, BRONZE BODY, 0.25 GPM ACTIVATION, LIMITS HOT WATER BETWEEN 80ºF & 120ºF, DOUBLE THROTTLING, DUAL CHECK VALVES, INTEGRAL STRAINER WITH 40 MESH SCREEN, TAMPER RESISTANT LOCKING NUT. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE	WATTS LFUSG-B

FD FLOOR DRAIN:

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. TYPE B POLISHED NICKEL BRONZE STRAINER, MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN	ZURN Z-415B-P

HDFD HEAVY DUTY FLOOR DRAIN:

12" ROUND TOP, SLOTTED SEDIMENT BUCKET, DURA-COATED CAST-IRON BODY, FLASHING COLLAR WITH CAST-IRON TRACTOR GRATE.

FLOOR DRAIN	ZURN Z-541-TG

TD-1 TROUGH DRAIN:

12"H X 18"W X 4'L, 45 GALLON CAPACITY, MADE OF 3/8" ABS PLASTIC, SHALL BE SLOPED BETWEEN 1/8" & 1/4" PER FOOT, WASHER CAN DRAIN INTO SIDE OR TOP, AND THE OUTLET DRAIN CAN BE LOCATED AT EITHER END OR ON BOTTOM. REMOVABLE LINT FILTER SCREEN MADE OF 1/8" PVC WITH 3/8" HOLES ON 3/4" SPACING, & ARE DESIGNED WITH A SAFETY OVERFLOW. END OF DRAIN PIPE SHOULD BE 1" BELOW TOP OF TRENCH.

TROUGH DRAIN	HIGH MARK DRAIN TROUGH

WH RECESSED WALL HYDRANT:

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING WALL BOX, 3/4 INCH, MALE HOSE THREAD, BRASS CASTING WITH CHROME FINISH POLYCARBONATE WHEEL HANDLE, LOOSE KEY FAUCET OPERATOR.

WALL FAUCET	WOODFORD MODEL B24

TCV TEMPERATURE CONTROL VALVE:

CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110ºF.

RECIRCULATION VALVE (TVC)	CIRCUIT SOLVER CS-1/2-110

UB-1 ICE MAKER HOOK-UP:

RECESSED METAL WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS, COMPLETE WITH FACTORY INSTALLED SHANK VALVE WITH 1/4" O.D. COPPER OUTLET TESTED AT 100 PSI. PROVIDE APPROXIMATELY 5'0" OF 1/4" O.S. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	GUY GRAY BIM 875

UB-2 RECESSED UTILITY BOX (CONDENSATE):

RECESSED PVC WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS WITH AN OPEN FACE PLATE. PROVIDE CONDENSATE DRAIN ADAPTER THAT PROVIDES A 1" AIR GAP. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	IPS MBFRS1200DB1
DRAIN ADAPTER	IPS MB1250AD

TP TRAP PRIMER:

PROVIDE BRASS TRAP PRIMERS AND DISTRIBUTION UNITS TO SEAL FLOOR DRAINS INDICATED ON DRAWINGS. TRAP PRIMER VALVES SHALL BE AUTOMATIC, SELF CONTAINED TYPE WITH NO SPRINGS OR DIAPHRAGMS AND SHALL NOT REQUIRE ADJUSTMENT. INLET AND OUTLET SIZE IS 1/2". TRAP PRIMER VALVES SHALL BE THE TYPE THAT CAN BE INSTALLED ANYWHERE ON COLD WATER PIPING SIZE 1-1/2" OR LESS. DISTRIBUTION UNITS SHALL SUPPLY 1-4 FLOOR DRAINS. TRAP PRIMER VALVES SHALL COMPLY WITH ASSE 1018. PRECISION PLUMBING PRODUCTS (PPP).

TRAP PRIMER	PPP PR-500
DISTRIBUTION UNIT	PPP DU-U

SP-1 SUMP PUMP:

SUBMERSIBLE SUMP PUMP, BRONZE WITH I.P.S. CONNECTION, CAPACITY OF 50 GPM @ 14 FT. DISCHARGE HEAD, PROVIDE WITH MAGNETIC STARTERS, 3450 RPM, INTEGRAL SUBMERSIBLE SWITCH WITH ROD AND FLOAT FOR AUTOMATIC CONTROL. FURNISH WITH METAL FRAME AND STEEL COVER, SIZE TO BE FOR 24"X24"X30" DEEP CONCRETE PIT, COORDINATE WITH STRUCTURAL AND ARCHITECTURAL ELEVATOR WALL FOOTING DETAILS.

SUMP PUMP	LIBERTY ELV280
REMOTE ALARM	LIBERTY OTC-115

MR-1 MOP RECEPTOR (FLOOR TYPE, CORNER):

24" X 24" X 12" DEEP, FLOOR MOUNT, TERRAZZO WITH 20 GAUGE STAINLESS STEEL INTEGRAL CAST CAP, 3" CAST BRASS OUTLET DRAIN WITH STAINLESS STEEL STRAINER. ROUGH CHROME PLATED 8" FAUCET WITH TOP BRACE, STRAIGHT LEVER HANDLES, SWIVEL INLETS, BUCKET HOOK, VACUUM BREAKER, STOPS AND HOSE END. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES.

SINK	ACORN TNC-24-TF2
FAUCET	ZURN Z843 M1 RC

MR-2 MOP RECEPTOR (FLOOR TYPE):

36"X24"X12" DEEP, FLOOR MOUNT, TERRAZZO WITH 20 GAUGE STAINLESS STEEL INTEGRAL CAST CAP, 3" CAST BRASS OUTLET DRAIN WITH STAINLESS STEEL STRAINER. ROUGH CHROME PLATED 8" FAUCET WITH TOP BRACE, STRAIGHT LEVER HANDLES, SWIVEL INLETS, BUCKET HOOK, VACUUM BREAKER, STOPS AND HOSE END. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES.

SINK	ACORN TSH3624
FAUCET	ZURN Z843 M1 RC
SUPPLY	ZURN Z8800-LRLK

AC-1 AIR COMPRESSOR:

OUTDOOR RATED ENCLOSED AIR COMPRESSOR PACKAGE COMPLETE WITH RECIEVER TANK, DRYER, PRESSURE GAUGE, REGULATOR, OIL SEPARATOR, FILTER, PRESSURE SWITCH, RELIEF VALVE, AND AUTOMATIC DRAIN KIT. SEE DETAIL 5/P-001. ENTIRE PACKAGE SHALL BE RATED FOR EXPOSURE TO RAIN, WIND, DUST, AND DIRECT SUNLIGHT. COMPRESSOR SHALL BE CAPABLE OF PROVIDING 20 CFM AT 112 PSI (MAXIMUM WORKING PRESSURE), 7.5 HORSEPOWER, 208 VOLTS, 3 PHASE. DESIGNED AND SUPPLIED WITH ALL NECESSARY EQUIPMENT. ALL COMPONENTS TO BE MOUNTED WITHIN A COMMON 6-SIDED LOW SOUND ENCLOSURE WITH SOLID BASE FRAME.

AIR COMPRESSOR	INGERSOLL RAND OR EQUAL

VP-1 VACUUM PUMP:

ROTARY VANE MEDICAL VACUUM PACKAGE TO FEATURE COMMON BASE WITH SINGLE POINT CONNECTIONS FOR ELECTRICAL PANEL AND INTAKE. SYSTEM SHALL BE CAPABLE OF ACCESS THROUGH STANDARD 34.5" DOORWAY. SYSTEM TO BE DESIGNED & MANUFACTURED WITH ISO 13485 PROCESSES. 208V/3 PHASE, 2 HP.

VACUUM PUMP	BEACONMEDAES VDV02BS-030V-BS

MG-2 MEDICAL AIR MANIFOLD:

AUTOMATIC CHANGEOVER MANIFOLD SHALL BE ABLE TO ACCOMODATE MULTIPLE HIGH PRESSURE CYLINDERS DIVIDED EQUALLY INTO TWO BANKS FOR A SPECIFIC GAS SERVICE. CYLINDER BANKS TO BE ARRANGED IN STAGGERED CONFIGURATION AND PROVIDE UNINTERRUPTED GAS SUPPLY FOR SPECIFIC GAS APPLICATION. MANIFOLD TO BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF LATEST EDITION OF NFPA 99 AND CGA.

MANIFOLD	BEACONMEDAES MNE-HH2X2S-O2-AS

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

WATFORD ENGINEERING
4452 Clinton Street, Marianna, Florida 32446 850.526.3447 Project Number: 2024-096 Drawn By: JDD
Florida Certificate of Authorization: 27825 David N Watford, PE Florida License 58208 Checked By: DNW

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION DATE

Project Number	**25004**
Dated	08.29.2025

PLUMBING SPECIFICATIONS

P-003

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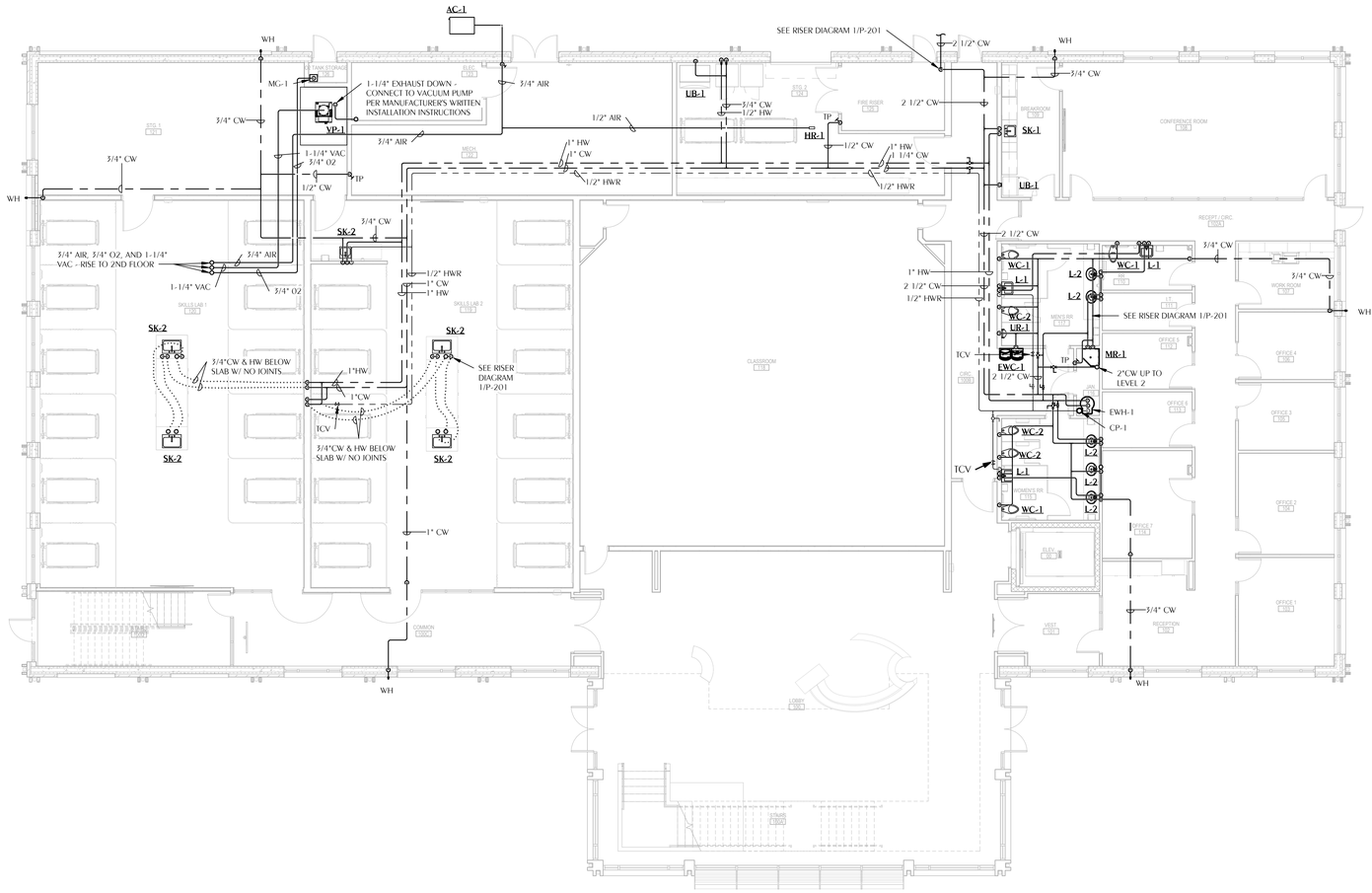

PLUMBING FLOOR PLAN-LEVEL 1 DOMESTIC WATER

1 / P-111 SCALE: 1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

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AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
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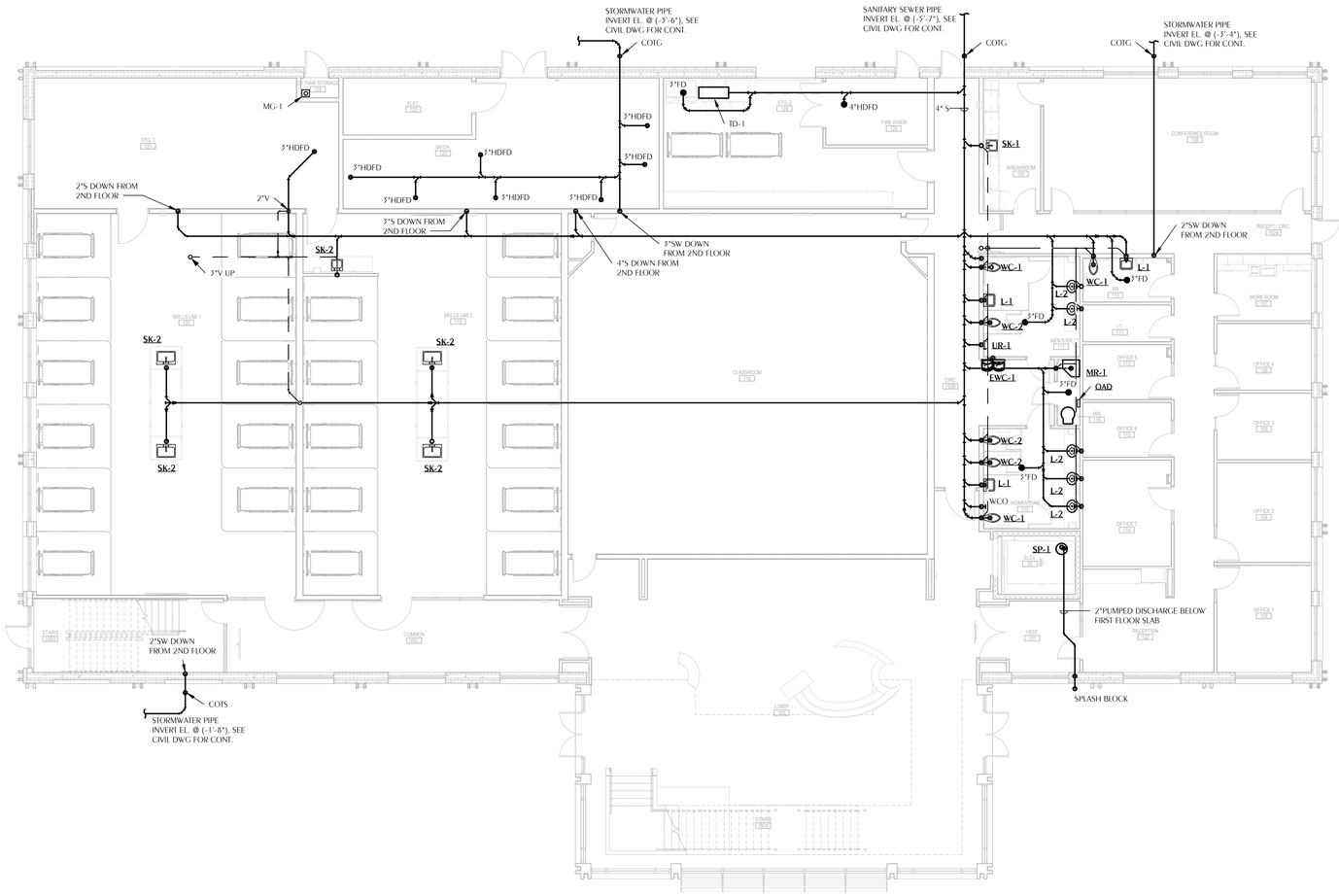
PLUMBING FLOOR PLAN-LEVEL 1 DOMESTIC WATER

P-111



N PROJECT NORTH

N TRUE NORTH

1 P-112 PLUMBING FLOOR PLAN-LEVEL 1 SANITARY

SCALE: 1/8" = 1'-0"

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

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Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
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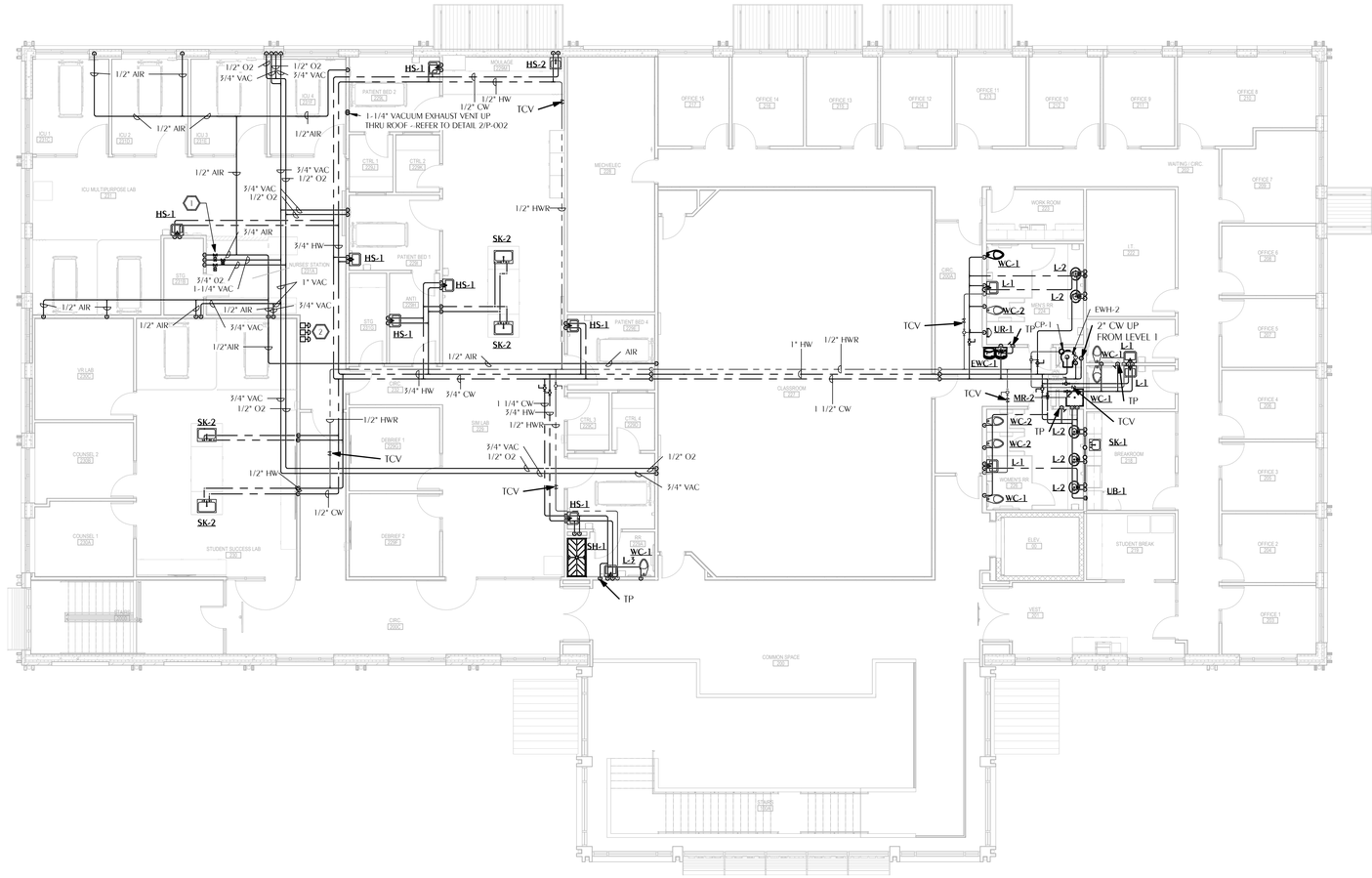
PLUMBING FLOOR PLAN-LEVEL 1 SANITARY

P-112

SHEET NOTES

1. ELECTRONIC SOLENOID EMERGENCY SHUT-OFF VALVES (NORMALLY CLOSED) ABOVE CEILING FOR 3/4" AIR, 3/4" O2, AND 1-1/4" VACUUM PIPING SERVING DEMONSTRATION HEADWALL UNITS. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS. SOLENOID VALVE EQUAL TO ASCO SERIES 8210 (120 VOLTS).
2. EMERGENCY SHUT-OFF SWITCH FOR AIR, O2, AND VACUUM SHALL BE PROVIDED AND INSTALLED BY DIVISION 26.



N PROJECT NORTH — Z TRUE NORTH

1 P-121 **PLUMBING FLOOR PLAN-LEVEL 2 DOMESTIC WATER**

SCALE: 1/8" = 1'-0"

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AR0017640
455 Harrison Avenue
Suite I
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850.387.1671
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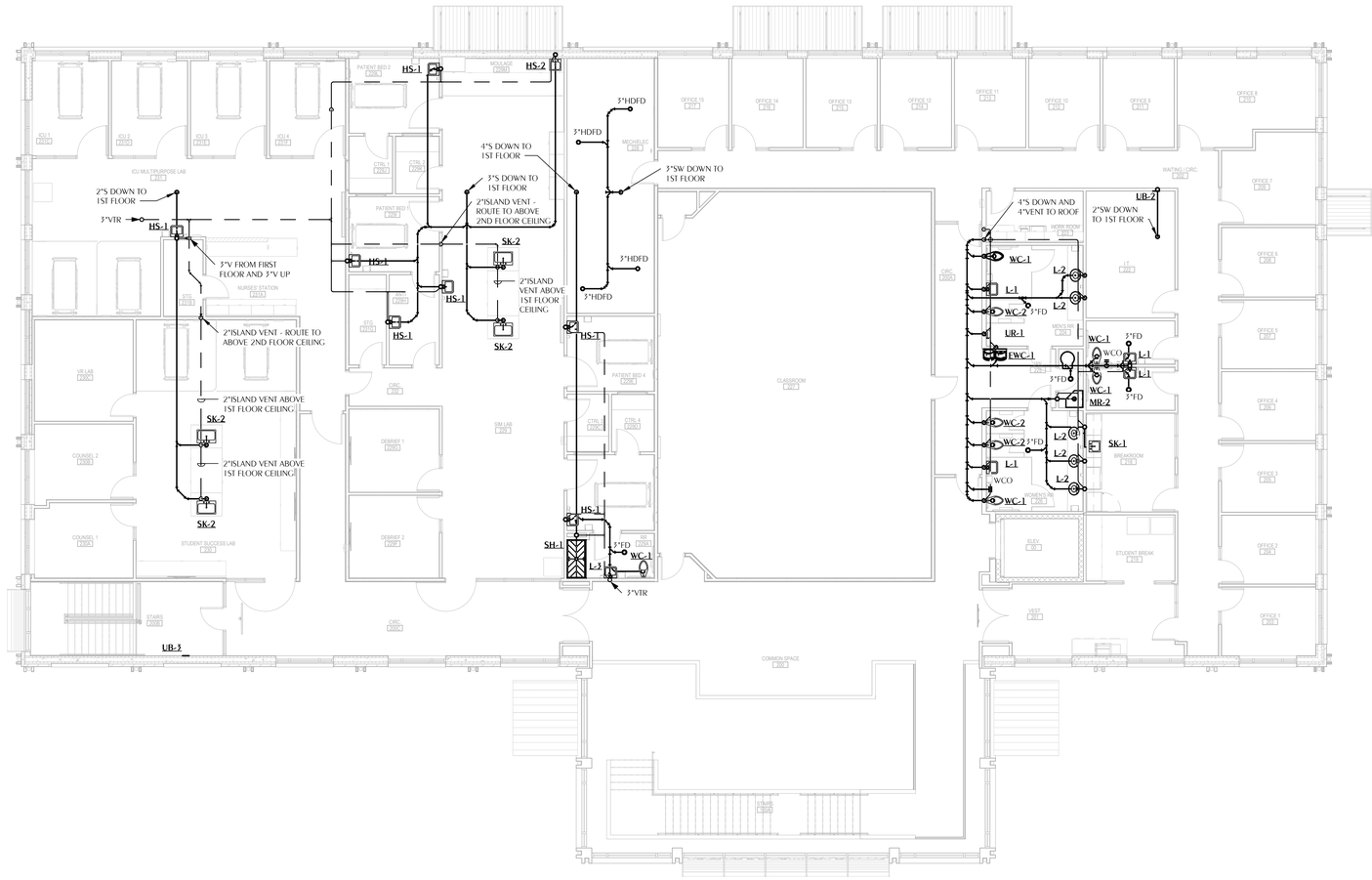
PLUMBING FLOOR PLAN-LEVEL 2 DOMESTIC WATER

P-121



1 PLUMBING FLOOR PLAN-LEVEL 2 SANITARY

P-122 SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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Suite I
Panama City, Florida 32401
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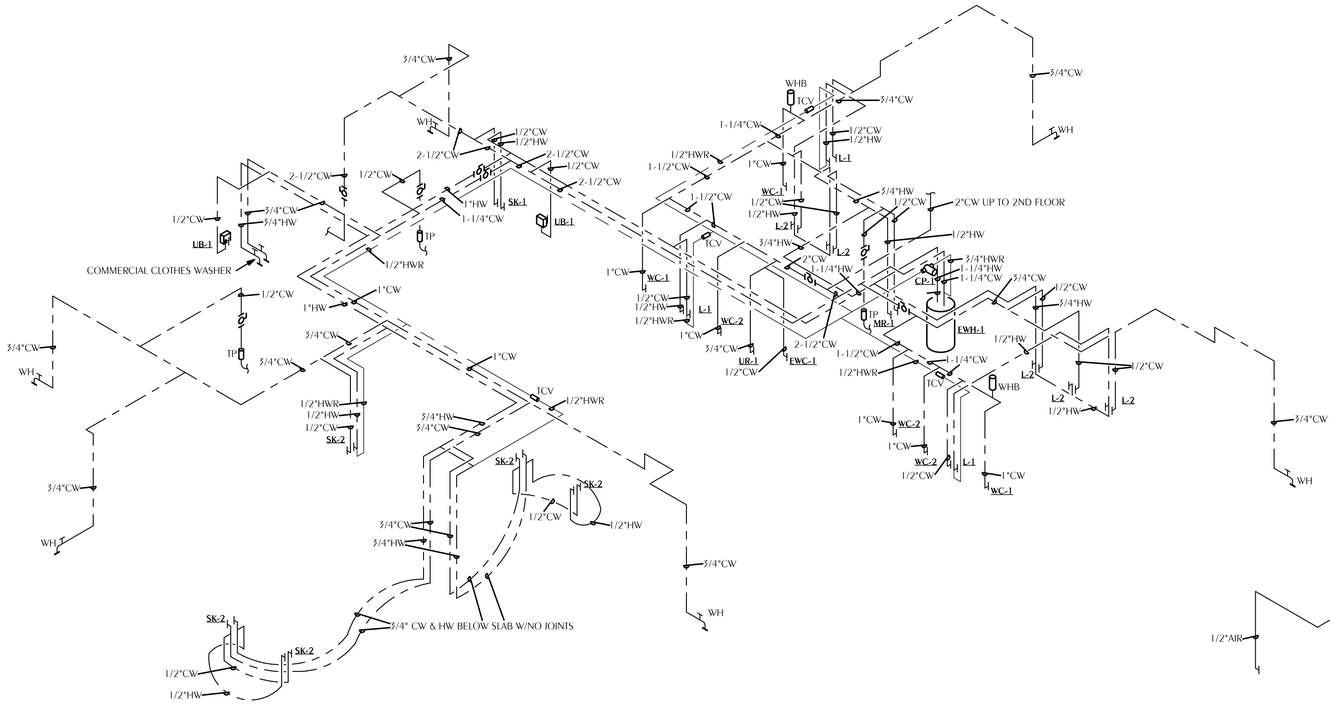
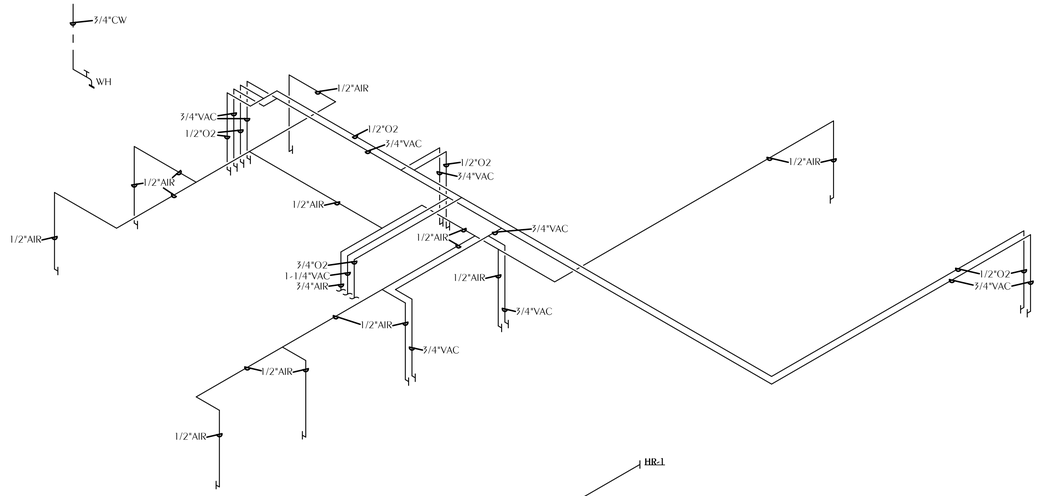
PLUMBING FLOOR PLAN-LEVEL 2 SANITARY

P-122



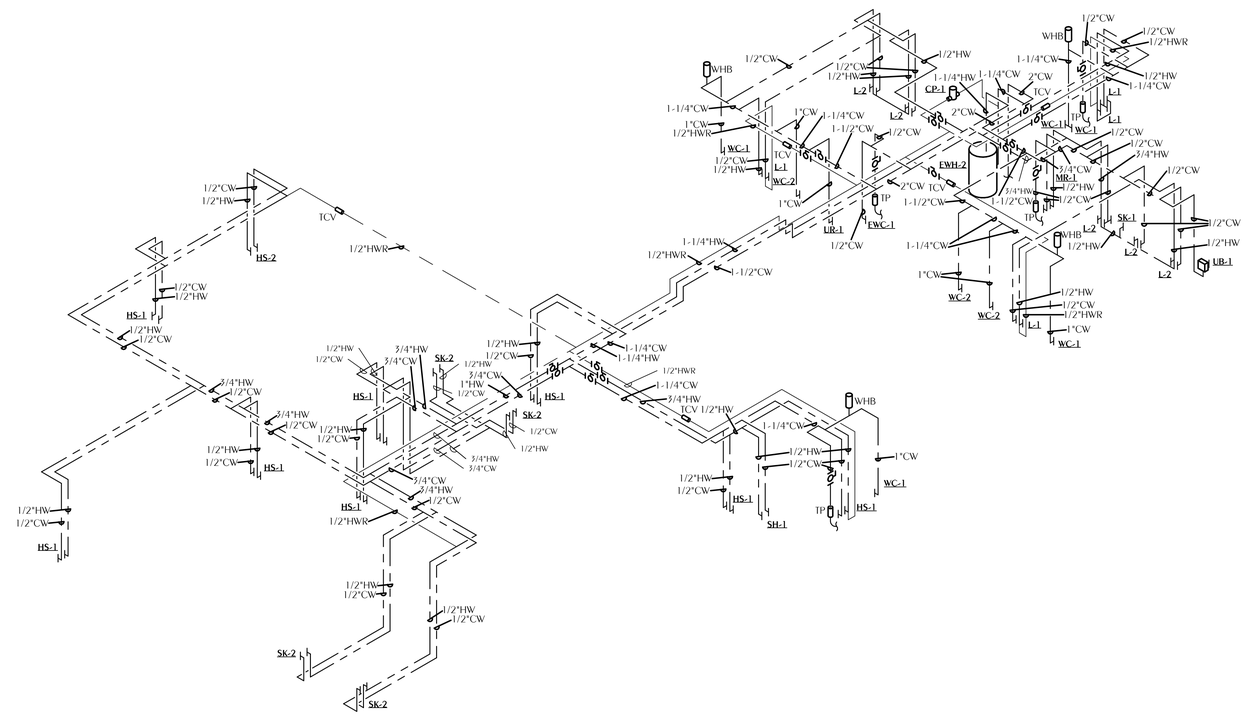
1 DOMESTIC WATER RISER DIAGRAM - 1ST FLOOR

P-201 SCALE: NONE



3 MEDICAL AIR RISER DIAGRAM

P-201 SCALE: NONE



2 DOMESTIC WATER RISER DIAGRAM - 2ND FLOOR

P-201 SCALE: NONE

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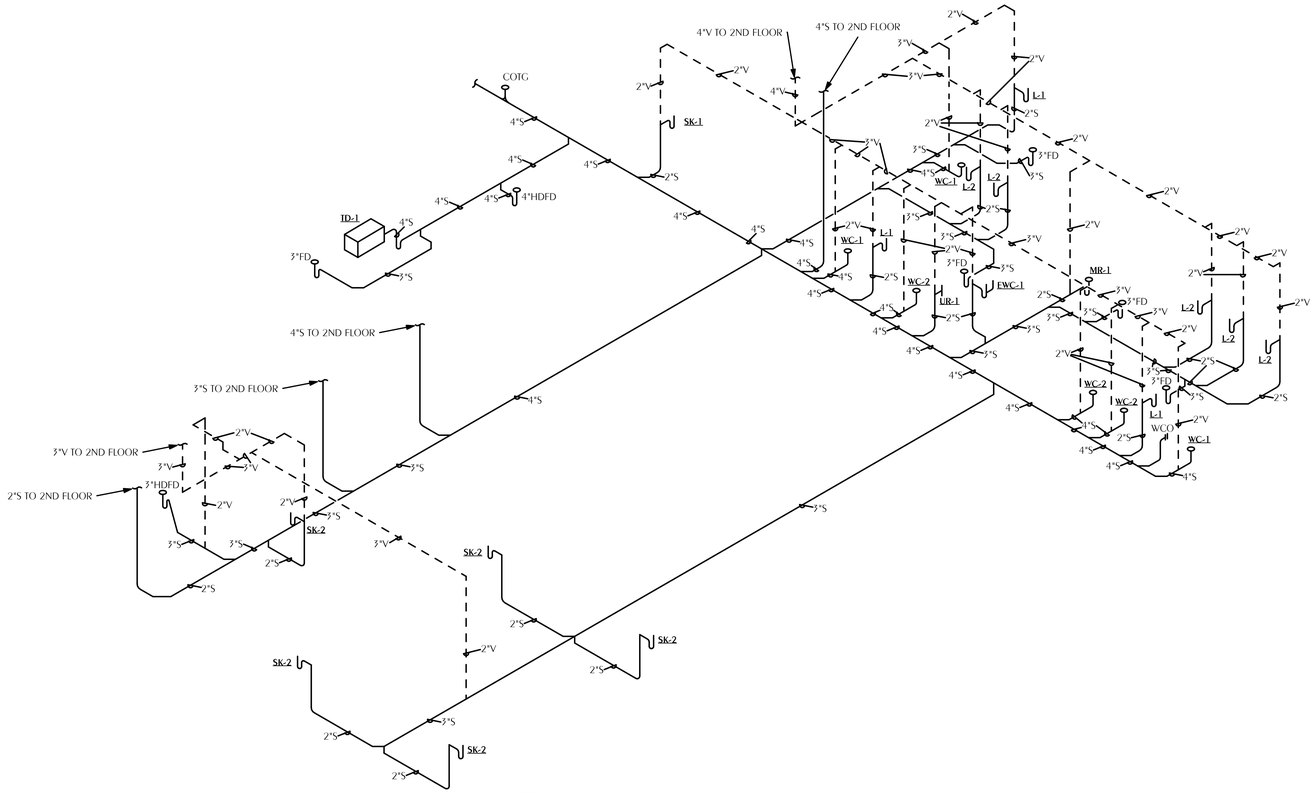
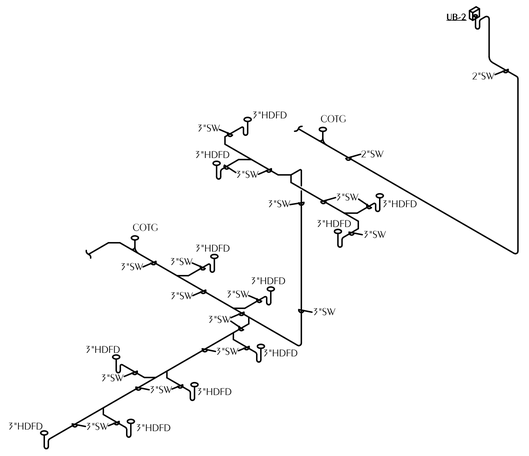
PLUMBING RISER DIAGRAMS

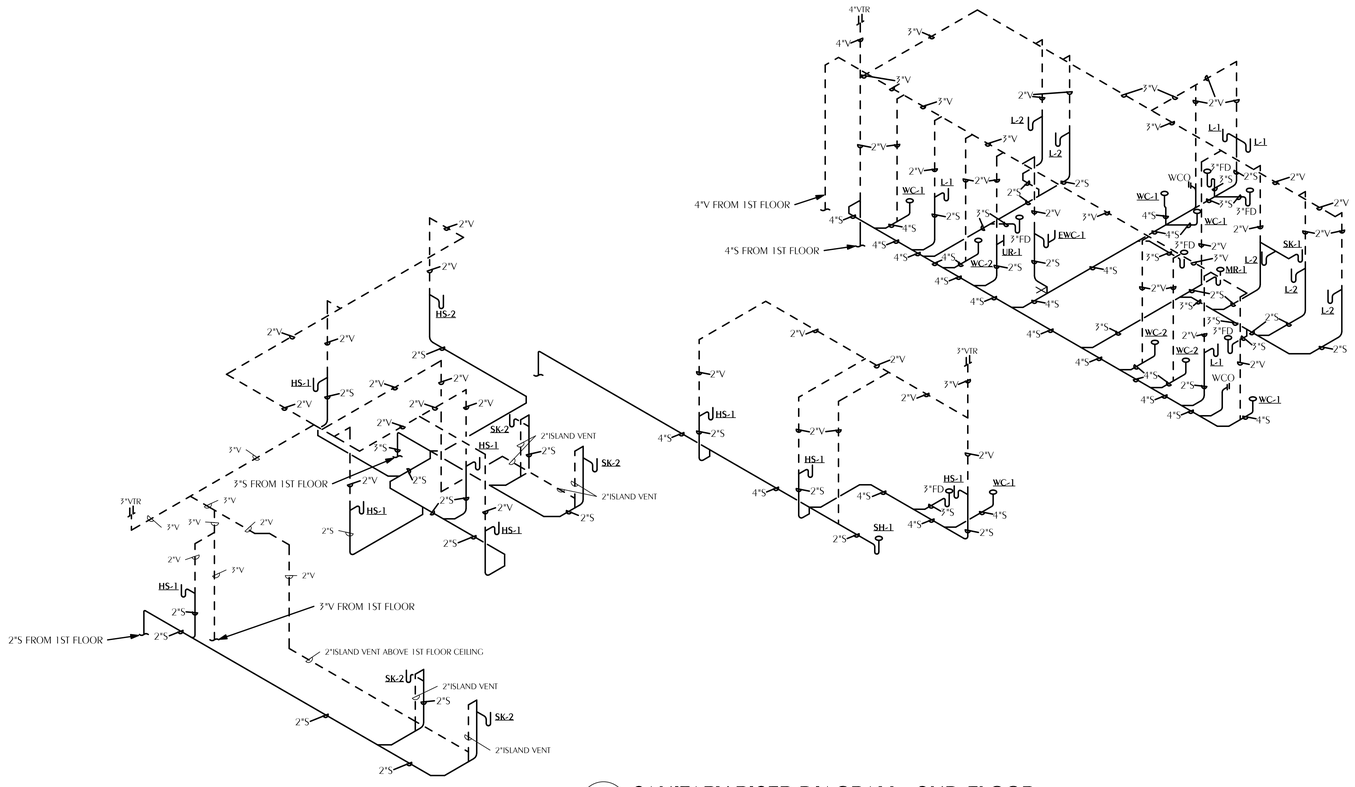
P-201



1 SANITARY RISER DIAGRAM - 1ST FLOOR
P-202 SCALE: NONE



3 STORMWATER RISER DIAGRAM
P-202 SCALE: NONE



2 SANITARY RISER DIAGRAM - 2ND FLOOR
P-202 SCALE: NONE

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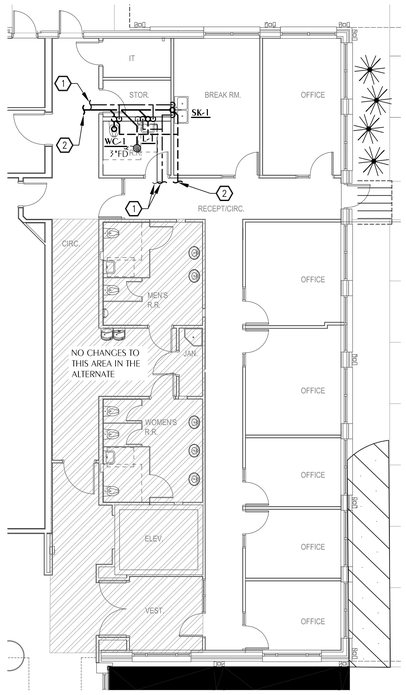
PLUMBING RISER DIAGRAMS

P-202



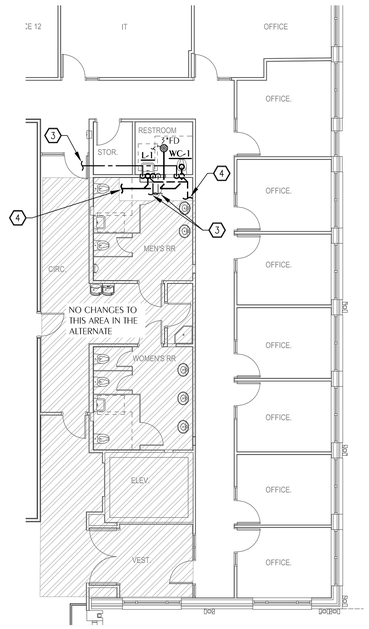
1 PLUMBING ALTERNATE PLAN - 1ST FLOOR

P-131

SCALE: 1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH



2 PLUMBING ALTERNATE PLAN - 2ND FLOOR

P-131

SCALE: 1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

SHEET NOTES

1. REFER TO P-111 FOR CONTINUATION AND FOR WORK IN SHADED AREA.
2. REFER TO P-112 FOR CONTINUATION AND FOR WORK IN SHADED AREA.
3. REFER TO P-121 FOR CONTINUATION AND FOR WORK IN SHADED AREA.
4. REFER TO P-122 FOR CONTINUATION AND FOR WORK IN SHADED AREA.

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PLUMBING ALTERNATE FLOOR PLANS

P-800

HVAC LEGEND

AHU-1	EQUIPMENT TAG	SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
1 M3	DETAIL TAG ("1" INDICATES IDENTIFICATION NUMBER; "M3" INDICATES THE SHEET NUMBER DRAWN ON)	(2)SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
1	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
		RA	RETURN AIR
AxB	RECTANGULAR DUCT SIZE ("A" INDICATES SIDE SHOWN; "B" INDICATES SIDE NOT SHOWN)	EA	EXHAUST AIR
	INDICATES RISE IN ELEVATION OF DUCT.	MA	MIXED AIR
		OA	OUTDOOR AIR
	EXTERNALLY INSULATED DUCTWORK	TA	TRANSFER AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	EF	EXHAUST FAN
	DUCT ELBOW WITH TURNING VANES	CD	CEILING DIFFUSER
		RG	RETURN GRILLE
	RADIUSED DUCT ELBOW	EG	EXHAUST GRILLE
	FLEXIBLE DUCT CONNECTION	ER	EXHAUST REGISTER
		CREF	CEILING ROOF EXHAUST FAN
	MANUAL VOLUME BALANCING DAMPER	AHU	INDOOR AIR HANDLING UNIT
		HP	HEAT PUMP
M	MOTORIZED DAMPER	OAU	OUTSIDE AIR UNIT
T FD	FIRE DAMPER WITH ACCESS DOORS	T 1	THERMOSTAT, "1" INDICATES UNIT CONTROLLED
S SD	SMOKE DAMPER WITH ACCESS DOORS	S	DUCT MOUNTED SMOKE DETECTOR
BD	BACKDRAFT DAMPER	UC	UNDERCUT DOOR 3/4"
		DG	DOOR GRILLE, REFER TO DOOR SCHEDULE
	TEE WITH TURNING VANES	AFF	ABOVE FINISHED FLOOR
			FIRE DAMPER AT CEILING DIFFUSER OR GRILLE
	TRANSITION		
		XFR	TRANSFER AIR
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	ESP	EXTERNAL STATIC PRESSURE
		DDC	DIRECT DIGITAL CONTROLS
	BRANCH DUCT TAKEOFF WITH MVD	TAB	TESTING, ADJUSTING, AND BALANCING
		NOM	NOMINAL
		VFD	VARIABLE FREQUENCY DRIVE
	INTERNALLY INSULATED DUCTWORK	WM	DUCTLESS FCU - WALL MOUNTED UNIT

GENERAL NOTES

1. ALL DUCT DIMENSIONS ARE NET INSIDE.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
6. WASTE VENT STACKS, EXHAUST FANS, ETC. SHALL BE A MINIMUM OF 10 FT. FROM OUTSIDE AIR INTAKES.
7. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
8. ALL AHU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
9. PROVIDE ACCESS PANELS IN HARD CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
10. ALL BIRD AND INSECT SCREENS SHALL BE ANODIZED ALUMINUM.
11. BECAUSE OF THE SMALL SCALE OF CONTRACT DOCUMENTS IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, TRANSITIONS, ETC. THE CONTRACT DOCUMENTS ARE ESSENTIALLY DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH THE STRUCTURE AND ARCHITECTURAL WORK FOR REVIEW PRIOR TO COMMENCING WORK
12. ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE.
13. THIS PROJECT SHALL INCLUDE COMMISSIONING OF THE HVAC, CONTROLS, AND RELATED ELECTRICAL SYSTEMS. THE SERVICES OF THE COMMISSIONING AGENT ARE PROVIDED UNDER SEPARATE CONTRACT. UNDER THIS CONTRACT, THE PRIME CONTRACTOR, SUBCONTRACTORS, AND EQUIPMENT MANUFACTURERS SHALL PROVIDE LABOR AND MATERIAL AS REQUIRED TO ASSIST AND PARTICIPATE IN THE COMMISSIONING PROCESS FOR THE SCOPE OF WORK AS DESCRIBED IN SECTION 23 08 00 OF THE PROJECT SPECIFICATIONS.

DUCTWORK AND INSULATION GENERAL NOTES

1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
2. SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS AND FLOORS ARE FIRE RATED OR NOT.
3. ALL SUPPLY AIR DUCTWORK (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK, 1PCF FLEXIBLE FIBERGLASS INSULATION, SEALED WITH OPEN MESH FABRIC AND MASTIC. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK, 1 PCF FLEXIBLE FIBERGLASS INSULATION SEALED WITH OPEN MESH FABRIC AND MASTIC. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
5. ALL AHU RETURN DUCT WITHIN 40' OF AHU RETURN PLENUM SHALL BE LINED WITH 2" DUCT LINER PER PROJECT SPECIFICATIONS.
6. ALL AHU RETURN PLENUMS SHALL BE LINED WITH 2" DUCT LINER PER PROJECT SPECIFICATIONS.
7. ALL OUTSIDE AIR DUCTWORK TO AND FROM OAUs SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 1-1/2" THICK, 3 PCF RIGID FIBERGLASS INSULATION, SEALED WITH OPEN MESH FABRIC AND MASTIC. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
8. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, INSULATION NOT REQUIRED.
9. AVOID ROUTING DUCTWORK AND TU'S WITHIN 6" OF TOP OF LIGHT FIXTURES WHEREVER POSSIBLE. MAINTAIN CLEARANCE BETWEEN TU'S AND DUCT INSULATION TO TOP OF LIGHTS. PROVIDE CLEARANCE ALL AROUND AIR TERMINAL UNITS AS REQUIRED FOR ROUTINE MAINTENANCE.
10. PROVIDE MVD'S AT ALL TAKEOFFS FROM MAIN DUCTS.
11. CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL AND PLUMBING PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
12. ALL DUCTWORK INSIDE MECHANICAL ROOMS SHALL BE INSULATED WITH 1-1/2" THICK, 3 PCF RIGID FIBERGLASS INSULATION, SEALED WITH OPEN MESH FABRIC AND MASTIC. APPLY A SECOND COAT OF GENERAL PURPOSE MASTIC OVER ALL RIGID INSULATION.
13. PROVIDE DUCT ACCESS DOORS AT ALL CONTROL DAMPERS, SMOKE DETECTORS, FIRE DAMPERS, AND SMOKE DAMPERS. MINIMUM SIZE OF ACCESS DOOR SERVING FIRE DAMPERS IS 12X12.
14. PROVIDE REMOVABLE DUCT SECTIONS IN DUCTWORK CONTAINING FIRE DAMPERS IF FULL 12X12 ACCESS DOOR CAN NOT BE PROVIDED.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	9x9	6Ø	TDC
CD-2 CFM	230	12x12	8Ø	TDC
CD-3 CFM	350	12x12	10Ø	TDC
LD-1 CFM	550	5' LONG, TWO 2" SLOTS, 5' PLENUM, TWO SIZE 10Ø DUCT CONNECTIONS		FL-20
SWG-1 CFM	560	12x12	12x12	272RL
RG, EG, SG, TG, RR, ER				
xx-1 CFM	530	12x12	12x12	350FL
xx-2 CFM	1800	22x22	22x22	350FL

NOTES:
1. MAX NC=20
2. PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.
5. PAINT ALL DUCT VISIBLE THROUGH GRILLES FLAT BLACK.

LOUVER SCHEDULE

MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT (MIN)
LVR-1	5400	72x36	9.04
LVR-2	1550	40x18	1.89
LVR-3	650	24x18	1.10

1. PROVIDE GREENHECK MODEL 'EHV-901D' (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN RESISTANT, STATIONARY LOUVER WITH BIRDSCREEN AND FLORIDA PRODUCT APPROVAL.
2. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
3. COORDINATE ELEVATIONS WITH ARCHITECT.
4. MAXIMUM PRESSURE DROP SHALL BE 0.10".

VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON	EXHAUST CFM
CORRIDOR	0.06	0	0
CLASSROOM	0.06	7.5	0
RESTROOM	0	0	50/FIXTURE
STORAGE	0.06	5	0
JANITORS CLOSET	0	0	1/SF

NOTE:

VENTILATION RATES IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019.

FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H20)	MAX. MOTOR POWER	SONES/(B (MAX)	BASIS OF DESIGN	MODEL	CONTROL	ELECRICAL VOLTS/PHASE	NOTES
EF-1.1	INLINE	1345	755	0.35	0.14 HP	5.0	COOK	165SQN10D	INTERLOCK WITH OAU-1 OA DAMPER	115/1	1,2,3,4,5,6
EF-1.2	INLINE	600	910	0.30	11W	3.6	COOK	120SQN10D	INTERLOCK WITH OAU-1 OA DAMPER	115/1	1,2,3,4,5,6
EF-2.1	INLINE	1170	1100	0.35	11W	7.1	COOK	135SQN10D	INTERLOCK WITH OAU-2 OA DAMPER	115/1	1,2,3,4,5,6
EF-2.2	INLINE	474	900	0.30	44W	3.5	COOK	120SQN10D	INTERLOCK WITH OAU-2 OA DAMPER	115/1	1,2,3,4,5,6

1. PROVIDE DISCONNECT
2. PROVIDE SOLID STATE SPEED CONTROLLER
3. PROVIDE BACKDRAFT DAMPER
4. PROVIDE THERMAL OVERLOAD
5. PROVIDE DIRECT DRIVE FAN WITH EC MOTOR.
6. PROVIDE RUBBER IN SHEAR VIBRATION ISOLATION.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: KAJ Checked By: **DNW**

GULF COAST STATE COLLEGE

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO. DESCRIPTION DATE

Project Number **25004**
Dated 08.29.2025

HVAC LEGEND, SCHEDULES, AND NOTES

M-001

VRF INDOOR UNIT SCHEDULE

UNIT AHU	BASIS OF DESIGN	MODEL	TYPE	DESIGN COOLING ENTER TEMP DB/WB	DESIGN COOLING CAPACITY (BTUH)		NOMINAL COOL CAPICITY (BTUH)	DESIGN HEATING TOTAL CAPICITY (BTUH)	DESIGN HEATING ENTERING TEMP DB	REFRIG. PIPE DIAMETER LIQUID/SUCTION (IN)	AIRFLOW (CFM)	VOLTS/PHASE	MCA	MOCP	NOTES
					COOLING TOTAL	COOLING SENSIBLE									
1.1	TRANE	TPVFYP036	VERTICAL AIR HANDLER	72.3/61.9	22900	19400	36000	3900	71.0	3/8 / 5/8	1065	208/1	4.13	15	1,2,3,4,5,6,7,8
1.2	TRANE	BCVE048	VERTICAL BLOWER COIL	72.7/61.2	32700	30500	36000	21100	71.2	3/8 / 5/8	1600	208/1	9.66	15	1,2,3,4,5,6,7,8,9
1.3	TRANE	TPVFYP024	VERTICAL AIR HANDLER	72.2/61.8	14100	11800	24000	0	-	3/8 / 5/8	640	208/1	3.00	15	1,2,3,4,5,6,7,8
1.4	TRANE	TPVFYP012	VERTICAL AIR HANDLER	73.1/62.4	9500	7800	12000	0	-	1/4 / 1/2	400	208/1	3.00	15	1,2,3,4,5,6,7,8
1.5	TRANE	TPVFYP036	VERTICAL AIR HANDLER	72.6/61.7	21400	19200	36000	3700	70.8	3/8 / 5/8	1045	208/1	4.13	15	1,2,3,4,5,6,7,8
1.6	TRANE	TPVFYP054	VERTICAL AIR HANDLER	71.7/60.8	28200	26600	54000	0	-	3/8 / 5/8	1480	208/1	5.63	15	1,2,3,4,5,6,7,8
1.7	TRANE	TPVFYP018	VERTICAL AIR HANDLER	72.3/62.4	11100	9100	18000	900	70.9	1/4 / 1/2	500	208/1	3.00	15	1,2,3,4,5,6,7,8
1.8	TRANE	TPVFYP030	VERTICAL AIR HANDLER	72.7/61.8	17500	15500	30000	4900	71.0	3/8 / 5/8	835	208/1	4.13	15	1,2,3,4,5,6,7,8
1.9	TRANE	TPVFYP024	VERTICAL AIR HANDLER	72.6/61.4	13300	12400	24000	3300	71.1	3/8 / 5/8	675	208/1	3.00	15	1,2,3,4,5,6,7,8
1.10	TRANE	TPVFYP012	VERTICAL AIR HANDLER	71.5/60.8	4000	3800	12000	400	71.0	1/4 / 1/2	265	208/1	3.00	15	1,2,3,4,5,6,7,8
2.1	TRANE	TPVFYP012	VERTICAL AIR HANDLER	72.7/61.8	6900	6200	12000	2800	71.1	1/4 / 1/2	330	208/1	3.00	15	1,2,3,4,5,6,7,8
2.2	TRANE	TPVFYP012	VERTICAL AIR HANDLER	72.7/61.3	8000	7400	12000	2100	71.0	1/4 / 1/2	385	208/1	3.00	15	1,2,3,4,5,6,7,8
2.3	TRANE	TPVFYP012	VERTICAL AIR HANDLER	72.5/61.9	8500	7400	12000	2200	70.9	1/4 / 1/2	400	208/1	3.00	15	1,2,3,4,5,6,7,8
2.4	TRANE	TPVFYP036	VERTICAL AIR HANDLER	72.7/61.7	21900	19900	36000	9100	70.9	3/8 / 5/8	1070	208/1	4.13	15	1,2,3,4,5,6,7,8
2.5	TRANE	TPVFYP012	VERTICAL AIR HANDLER	71.9/61.0	6700	6500	12000	1200	70.9	1/4 / 1/2	365	208/1	3.00	15	1,2,3,4,5,6,7,8
2.6	TRANE	TPVFYP036	VERTICAL AIR HANDLER	72.5/61.6	22200	20000	36000	4400	71.0	3/8 / 5/8	1090	208/1	4.13	15	1,2,3,4,5,6,7,8
2.7	TRANE	TPVFYP018	VERTICAL AIR HANDLER	72.7/62.1	14200	12100	24000	5900	70.9	3/8 / 5/8	655	208/1	3.00	15	1,2,3,4,5,6,7,8
2.8	TRANE	TPVFYP048	VERTICAL AIR HANDLER	73.0/61.6	28200	26200	48000	16800	70.7	3/8 / 5/8	1390	208/1	5.63	15	1,2,3,4,5,6,7,8
2.9	TRANE	BCVE048	VERTICAL AIR HANDLER	73.0/61.6	27700	27200	48000	2400	70.9	3/8 / 5/8	1525	208/1	9.66	15	1,2,3,4,5,6,7,8,9
2.10	TRANE	TPVFYP024	VERTICAL AIR HANDLER	72.6/61.5	13300	11800	24000	1500	70.9	3/8 / 5/8	620	208/1	3.00	15	1,2,3,4,5,6,7,8
2.11	TRANE	TPVFYP048	VERTICAL AIR HANDLER	72.9/61.4	25600	24200	48000	8400	71.0	3/8 / 5/8	1295	208/1	5.63	15	1,2,3,4,5,6,7,8

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67F (DB/WB), OUTDOOR OF 95dF (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70dF (DB), OUTDOOR OF 45d(WB)
3. HEATING AND COOLING SHALL INCLUDE NO DIVERSITY.
4. CORRECTED CAPACITY IS NET CAPICITY FOR INSTALLATION ACCOUNTING FOR PIPE RUN LENGTHS, ETC.
5. PROVIDE FACTORY ENGINEERED SHOP DRAWINGS WITH REFRIGERANT PIPE SIZES.
6. EXPOSED (INDOOR OR OUTDOOR) REF PIPING SHALL BE HARD DRAWN COPPER.
7. PROVIDE HARD WIRED REMOTE THERMOSTAT.
8. PROVIDE BAC-NET MODULE.
9. PROVIDE LEV KIT TO CONNECT BLOWER COIL UNIT TO VRF SYSTEM.

VRF CONDENSING UNIT SCHEDULE

UNIT HP	BASIS OF DESIGN	MODEL	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING OUTDOOR TEMP DB	EER	NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING OUTDOOR TEMP DB	COP	VOLTS/PHASE	MCA (AMPS) MODULE 1/2	MOCP (AMPS) MODULE 1/2	NOTES
1	TRANE	TURYP240	240000	95.0	9.5	270000	25.0	3.36	208/3	50/50	80/80	1,2,3,4,5,6
2	TRANE	TURYP192	192000	95.0	9.3	215000	25.0	3.24	208/3	40/40	60/60	1,2,3,4,5,6

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. EFFICIENCY VALUES FOR EER, IEER, AND COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS.
4. PROVIDE HEAT RECOVERY VRF UNIT.
5. HP CONSISTS OF TWO MODULES, EACH WITH 208/3 POWER. MCA AND MOCP ARE SHOWN FOR EACH MODULE.
6. PROVIDE HERESITE COIL COATING RATED FOR 15,000 HOUR SALT SPRAY PROTECTION PER ASTM B-117.

SINGLE ZONE MINI SPLIT CONDENSING UNIT SCHEDULE

UNIT MHP	BASIS OF DESIGN	MODEL	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING OUTDOOR TEMP DB	SEER2	NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING OUTDOOR TEMP DB	HSPF	VOLTS/PHASE	MCA (AMPS)	MOCP (AMPS)	NOTES
1	TRANE	TRUYA0181KA70NA	18000	95.0	20.2	NA	NA	NA	208/1	11	28	1,2,3
2	TRANE	TRUYA0361KA70NA	36000	95.0	19.4	NA	NA	NA	208/1	25	31	1,2,3

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. EFFICIENCY VALUES FOR EER, IEER, AND COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED AND NON-DUCTED INDOOR UNITS.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SCHEDULE

SYSTEM BC	BASIS OF DESIGN	CIRCUIT MODEL	DESIGN CONNECTED LOAD (BTUH)	VOLTS/PHASE	MCA	MOP	NUMBER OF PORTS	NOTES
1	TRANE	TCMBM1012IA21N4	282500	208/1	1.2	20	12	1
2	TRANE	TCMBM1012IA21N4	329800	208/1	1.2	20	12	1

1. PROVIDE DIAMONDBACK BALL VALVES BV-SERIES, 700 PSIG WORKING PRESSURE, FULL PORT, 410A RATED

SINGLE ZONE MINI SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

UNIT	BASIS OF DESIGN	MODEL	TYPE	NOMINAL COOL CAPACITY (BTUH)	DESIGN COOLING EAT °F DB/WB	DESIGN COOLING CAPACITY (BTUH)		NOMINAL HEAT CAPACITY (BTUH)	DESIGN HEATING TOTAL CAPACITY (BTUH)	DESIGN HEATING EAT °F DB	AIRFLOW (CFM)	VOLTS/PHASE	MCA (AMPS)	MOP (AMPS)	NOTES
						COOLING TOTAL	COOLING SENSIBLE								
WM-1.1	TRANE	TPKA0A0181HA070A	WALL MOUNT	18000	80/67	18000	-	-	-	-	340	NA	NA	NA	1,2,3,4,5,6,7,8
WM-2.1	TRANE	TPKA0A0361KA070A	WALL MOUNT	36000	80/67	36000	-	-	-	-	810	NA	NA	NA	1,2,3,4,5,6,7,8

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
3. DESIGN COOLING CONDITIONS ARE AT 95°F AMBIENT; DESIGN HEATING CONDITIONS ARE AT 25°F AMBIENT.
4. DESIGN CAPACITY IS NET CAPACITY FOR INSTALLATION ACCOUNTING FOR 65 FT PIPE RUN LEGNTHS, ETC.
5. CALCULATE REFRIGERANT LINE SIZES BASED UPON FINAL FIELD PIPING LAYOUT.
6. EXPOSED (INDOOR OR OUTDOOR) REF PIPING SHALL BE HARD DRAWN COPPER.
7. PROVIDE BAC-NET MODULE.
8. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.

100% OUTSIDE AIR UNIT SCHEDULE

UNIT OAU/OACU	BASIS OF DESIGN	OAU MODEL	OACU MODEL	CONFIGURATION	TOTAL AIRFLOW (CFM)	OA (CFM)	ESP (IN. W.C.)	FAN (BHP)	DEHUMIDIFICATION					HEATING		OAU ELECTRICAL			OACU ELECTRICAL			NOTES
									EAT° (DB/WB)	LAT° (DP)	TOTAL (BTUH)	SENSIBLE (BTUH)	MRE	EAT° (DB)	KW	VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP	
1	MULTISTACK	CUSTOM OAU	ACXXAH2	SPLIT	2550	2550	0.5	1.86	83.9/80.6	42.8	311900	112700	5.1	25.0	36	208/3	135.5	175	208/3	21.2	30	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
2	MULTISTACK	CUSTOM OAU	ACXXAH2	SPLIT	2700	2700	0.5	2.09	83.9/80.6	44.9	324100	115500	5.3	25.0	39	208/3	145.9	175	208/3	21.2	30	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

1. MRE IS MOISTURE REMOVAL EFFICIENCY IN LB/AWH.
2. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
3. PROVIDE 100% OUTSIDE AIR DEHUMIDIFICATION UNIT WITH HOT GAS REHEAT.
4. PROVIDE SCR ELECTRIC HEAT.
5. PROVIDE SINGLE POINT POWER CONNECTION
6. PROVIDE REFRIGERANT SHOP DRAWINGS.
7. PROVIDE DIRECT DRIVE FAN WITH EC MOTOR.
8. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
9. PROVIDE MERV 13 FILTERS.
10. PROVIDE UV LIGHT WITH 120V POWER.
11. PROVIDE MODULAR UNIT CAPABLE OF FITTING THROUGH A 6'X7' OPENING.
12. PROVIDE UNIT WITH R454B REFRIGERANT AND FACTORY REFRIGERANT MONITORING SYSTEM.
13. PROVIDE DUAL DIGITAL COMPRESSORS.
14. UNIT SHALL HAVE 1" FRAMED FOAM INSULATION.
15. PROVIDE ANTICORROSION COIL COATING RATED FOR 20,000 HOURS SALT SPRAY PROTECTION PER ASTM B-117.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4412 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-016 David N Watford, PE Florida License 58208
Drawn By: KAJ Checked By: DNW

GULF COAST STATE COLLEGE

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

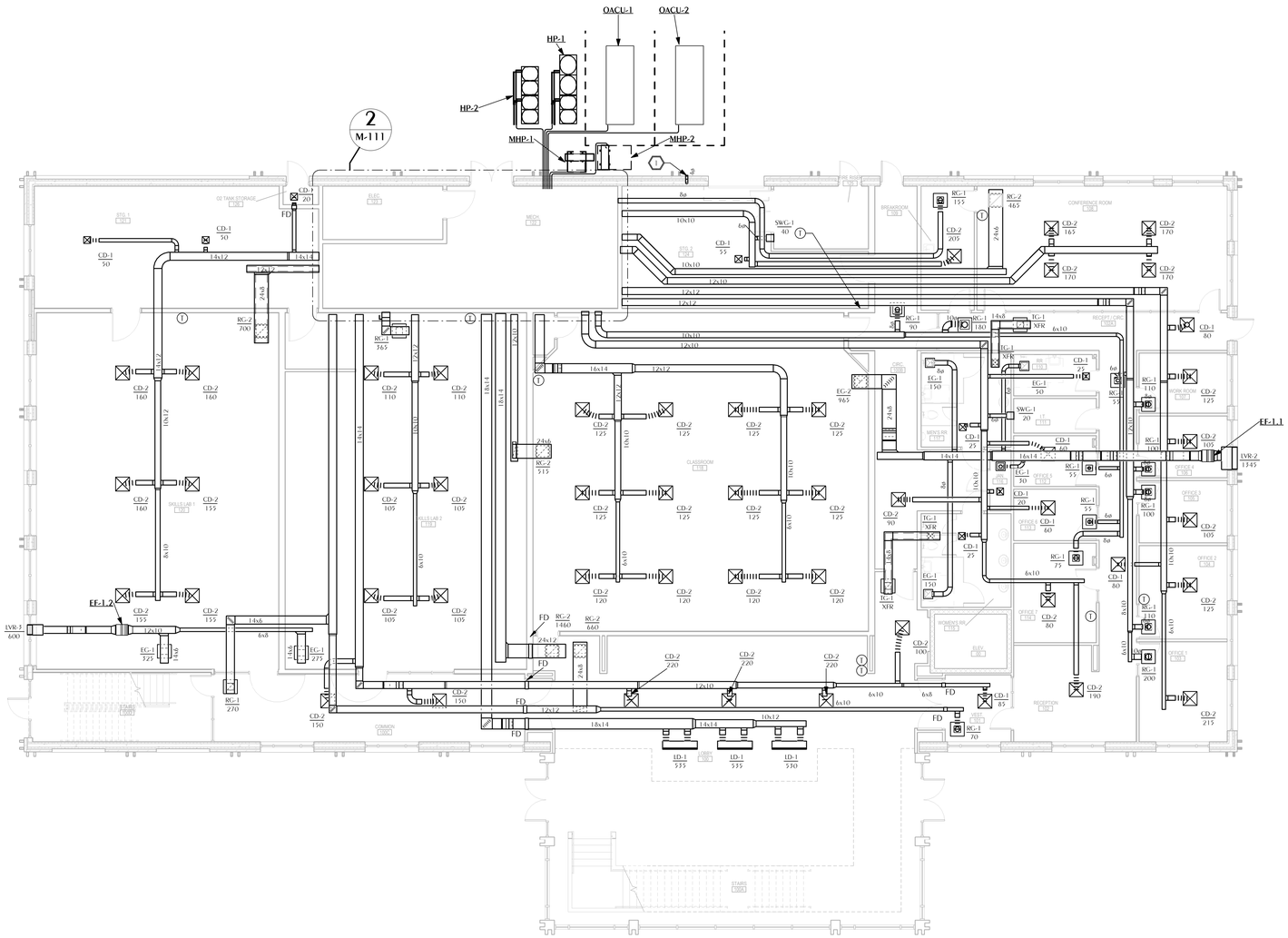
NO.	DESCRIPTION	DATE

Project Number **25004**

Dated 08.29.2025

HVAC SCHEDULES

M-002



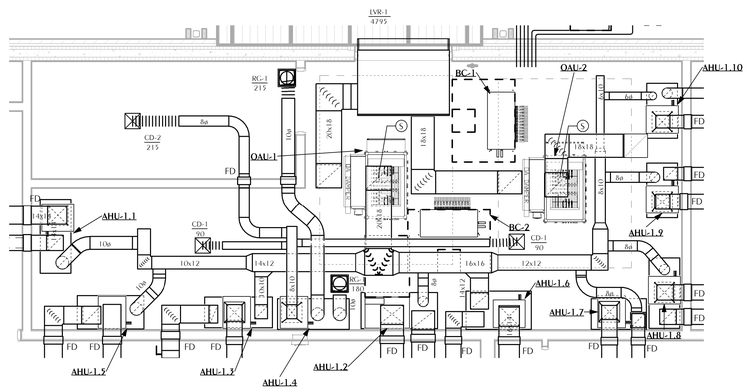
SHEET NOTES

1. PROVIDE SEIHO MODEL SFZC VENT CAP WITH BACKDRAFT DAMPER FOR DRYER EXHAUST.

1 HVAC FLOOR PLAN-LEVEL 1

M-111 SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



2 HVAC LEVEL 1 ENLARGED MECHANICAL ROOM

M-111 SCALE: 1/4" = 1'-0"

PROJECT NORTH TRUE NORTH

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: KAJ Checked By: DNW

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

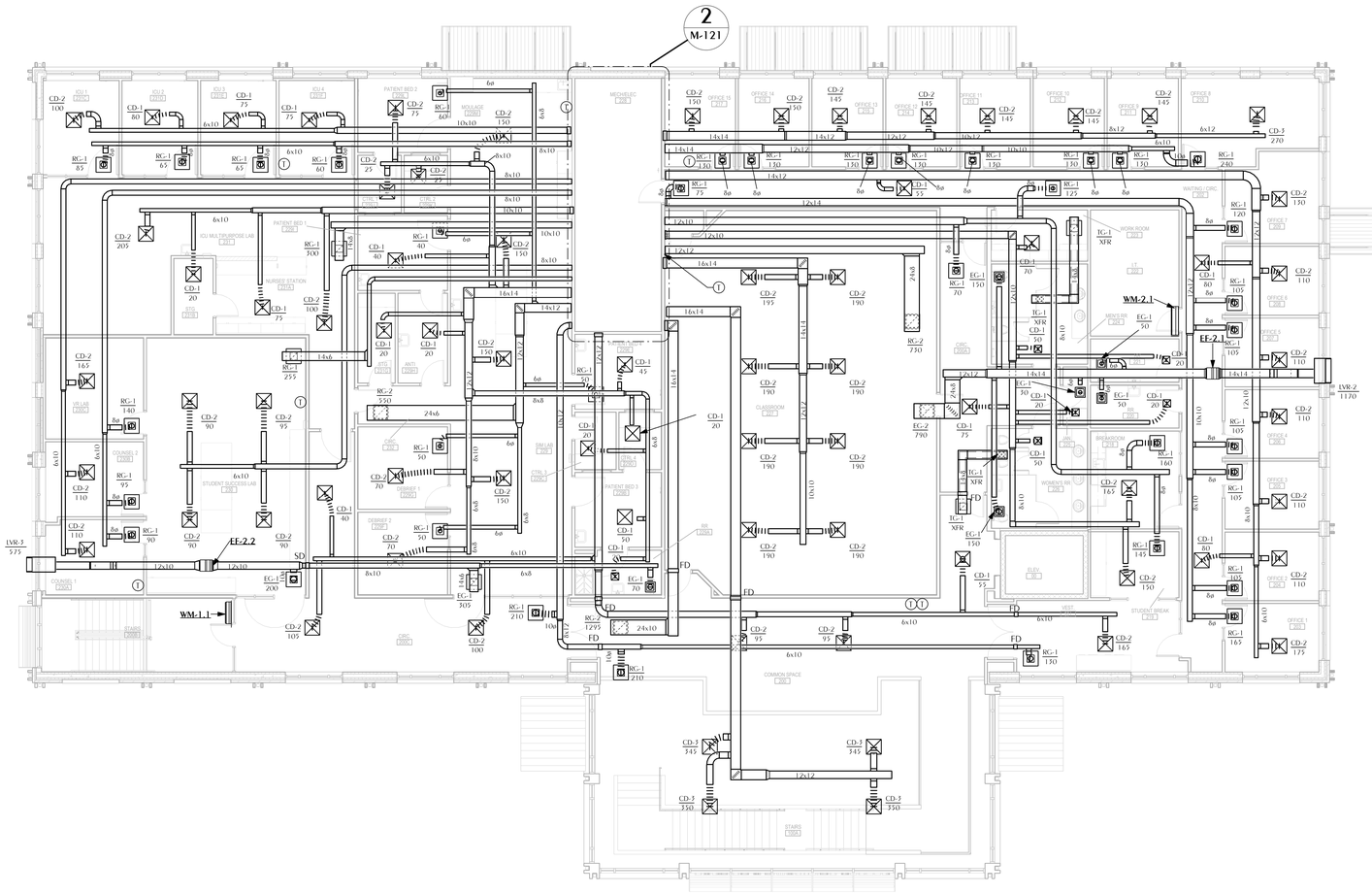
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

HVAC FLOOR PLAN-LEVEL 1

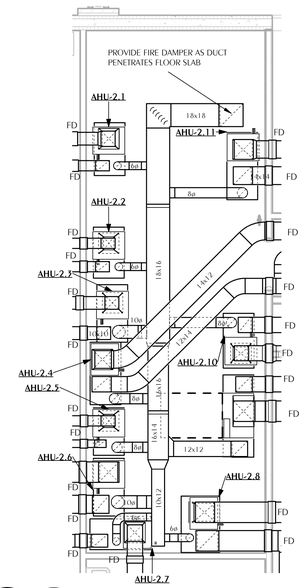
M-111



N PROJECT NORTH N TRUE NORTH

1 M-121 **HVAC FLOOR PLAN-LEVEL 2**

SCALE: 1/8" = 1'-0"



N PROJECT NORTH N TRUE NORTH

2 M-121 **HVAC LEVEL 2 ENLARGED MECHANICAL ROOM**

SCALE: 1/4" = 1'-0"

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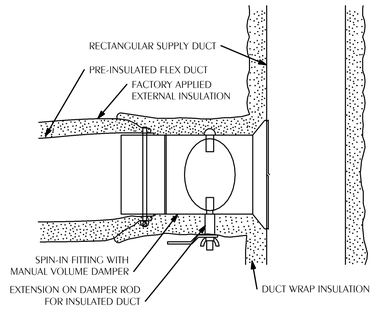
HVAC FLOOR PLAN-LEVEL 2

M-121



NOTES:

CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.

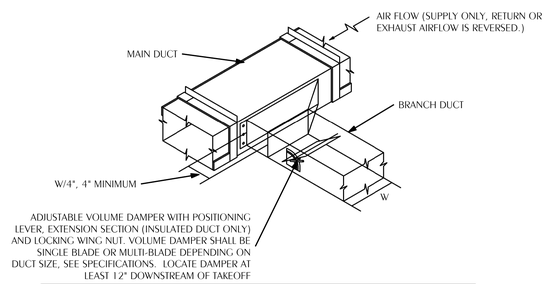
ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILART TO THIS DETAIL.

PROVIDE REMOTE CABLE ACTUATOR FOR AIR DEVICE IN HARD CEILINGS WITHOUT ACCESS. MOUNT ACTUATOR IN FACE OF AIR DEVICE.

FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

1 TYPICAL FLEX DUCT TAKEOFF DETAIL

M-201 SCALE: NONE



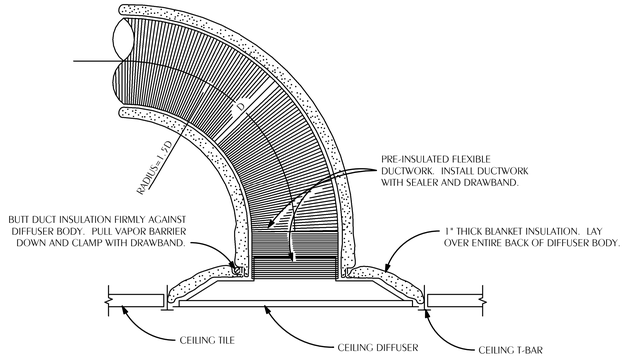
NOTES:

PROVIDE REMOTE CABLE ACTUATOR FOR AIR DEVICE IN HARD CEILINGS WITHOUT ACCESS. MOUNT ACTUATOR IN FACE OF AIR DEVICE.

FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

2 TYPICAL BRANCH DUCT TAKEOFF

M-201 SCALE: NONE



NOTES:

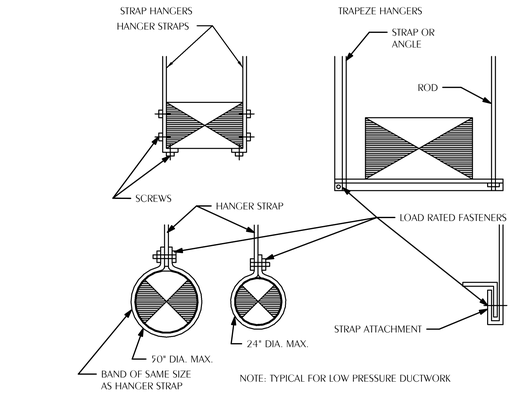
FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPULSLATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 6" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2020 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 36 OR APPROVED EQUAL.

PROVIDE 24X24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.

PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

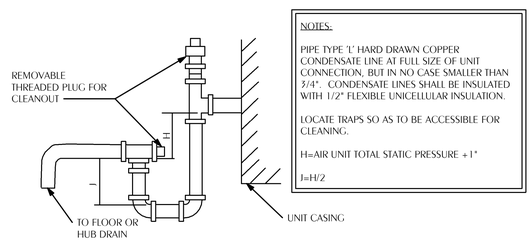
3 TYPICAL CEILING DIFFUSER DETAILS

M-201 SCALE: NONE



4 TYPICAL DUCT HANGER DETAILS

M-201 SCALE: NONE



NOTES:

PIPE TYPE 'L' HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4". CONDENSATE LINES SHALL BE INSULATED WITH 1/2" FLEXIBLE UNICELLULAR INSULATION.

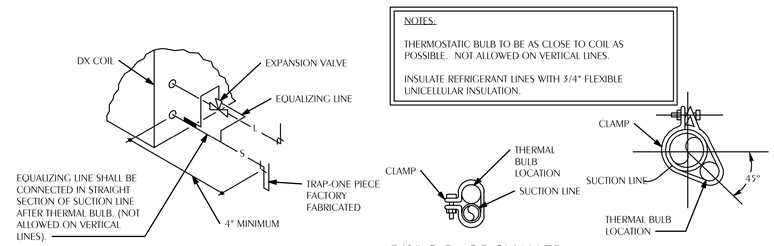
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

H=AIR UNIT TOTAL STATIC PRESSURE +1"

J=H/2

5 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP

M-201 SCALE: NONE



NOTES:

THERMOSTATIC BULB TO BE AS CLOSE TO COIL AS POSSIBLE. NOT ALLOWED ON VERTICAL LINES.

INSULATE REFRIGERANT LINES WITH 3/4" FLEXIBLE UNICELLULAR INSULATION.

6 REFRIGERANT COIL CONNECTION DETAIL

M-201 SCALE: NONE

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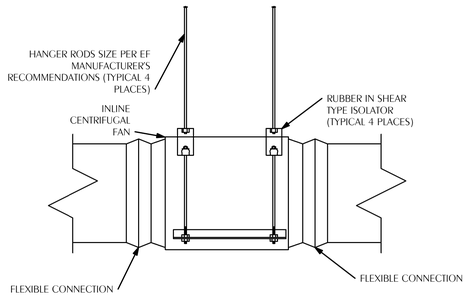
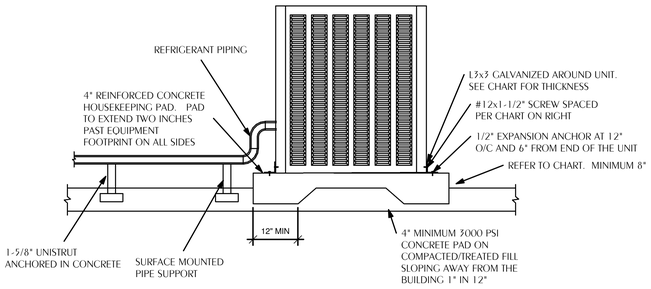
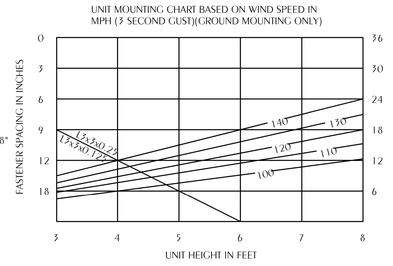
HVAC DETAILS

M-201



1 INLINE FAN DETAIL
M-202 SCALE: NONE

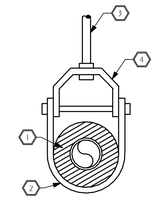




DESIGN CRITERIA:

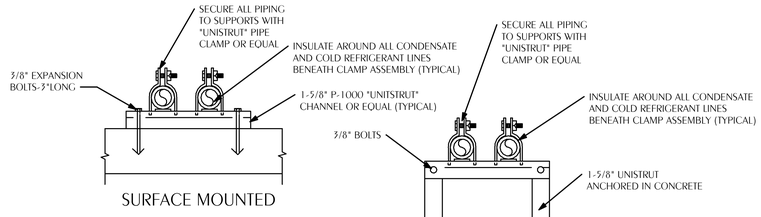
CODE:	ASCE 7-10
VELOCITY:	SEE BELOW
Kz:	0.70
Kzt:	1.00
Kd:	0.85
IMPORTANCE:	1.15
EXPOSURE:	B
GI:	1.3
Gi:	0.85
qz:	
100 mph	17.52 psf
110 mph	21.20 psf
120 mph	25.22 psf
130 mph	29.60 psf
140 mph	34.33 psf
Pdesign:	
100 mph	19.36 psf
110 mph	23.42 psf
120 mph	27.87 psf
130 mph	32.71 psf
140 mph	37.94 psf

TYPICAL OUTDOOR MECHANICAL UNIT MOUNTING DETAIL
2 M-202 SCALE: NONE



1. INSULATION
2. PIPE COVERING PROTECTION SADDLE
3. HANGER ROD FASTEN TO STRUCTURE PER SPECIFICATIONS
4. CLEVIS TYPE HANGER

3 OVERHEAD PIPE SUPPORT
M-202 SCALE: NONE



NOTE:
PROVIDE FACTORY END CAPS FOR CHANNEL.

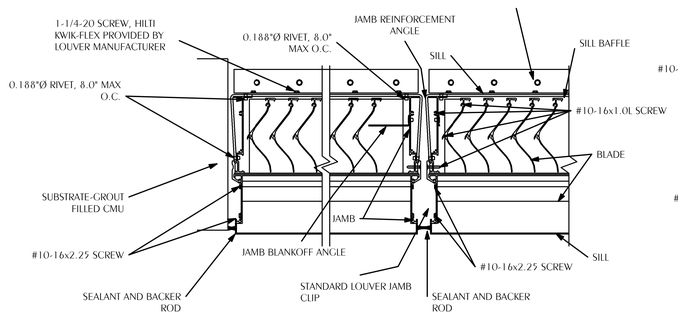
PROVIDE ALUMINUM JACKET BETWEEN INSULATION AND PIPE CLAMP AT ALL INDOOR LOCATIONS.

INSULATE ALL REFRIGERANT PIPING WITH 3/4" THICK FLEXIBLE UNICELLULAR INSULATION.

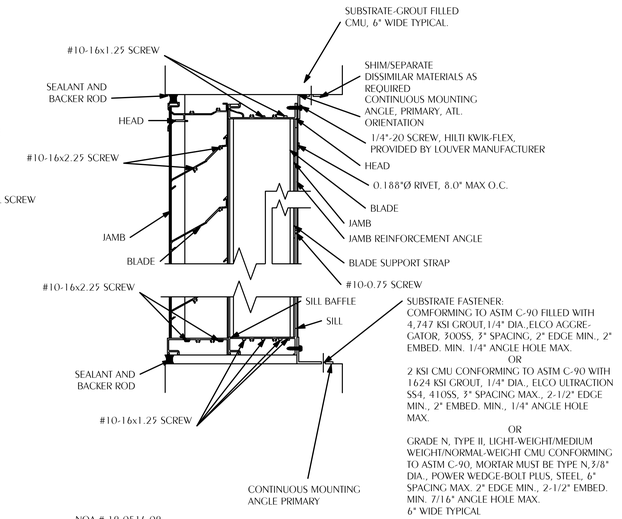
PROVIDE SMOOTH 0.016" ALUMINUM JACKET OVER ALL EXPOSED OUTDOOR INSULATION.

PROVIDE SUPPORT AT INTERVALS REQUIRED BY THE FLORIDA BUILDING CODE.

4 TYPICAL EXTERIOR PIPING SUPPORT DETAIL
M-202 SCALE: NONE



SUBSTRATE FASTENER:
CONFORMING TO ASTM C-90 FILLED WITH 4,747 KSI GROUT, 1/4" DIA.,ELCO AGGRE-GATOR, 3OOSS, 3" SPACING, 2" EDGE MIN., 2" EMBED. MIN. 1/4" ANGLE HOLE MAX.
OR
2 KSI CMU CONFORMING TO ASTM C-90 WITH 1624 KSI GROUT, 1/4" DIA., ELCO ULTRACTION SS4, 41OSS, 3" SPACING MAX., 2-1/2" EDGE MIN., 2" EMBED. MIN., 1/4" ANGLE HOLE MAX.
OR
GRADE N, TYPE II, LIGHT-WEIGHT/MEDIUM WEIGHT/NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90, MORTAR MUST BE TYPE N, 3/8" DIA., POWER WEDGE-BOLT PLUS, STEEL, 6" SPACING MAX. 2" EDGE MIN., 2-1/2" EMBED. MIN. 7/16" ANGLE HOLE MAX.
6" WIDE TYPICAL



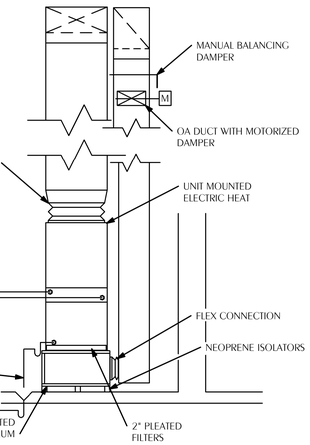
SUBSTRATE FASTENER:
CONFORMING TO ASTM C-90 FILLED WITH 4,747 KSI GROUT, 1/4" DIA.,ELCO AGGRE-GATOR, 3OOSS, 3" SPACING, 2" EDGE MIN., 2" EMBED. MIN. 1/4" ANGLE HOLE MAX.
OR
2 KSI CMU CONFORMING TO ASTM C-90 WITH 1624 KSI GROUT, 1/4" DIA., ELCO ULTRACTION SS4, 41OSS, 3" SPACING MAX., 2-1/2" EDGE MIN., 2" EMBED. MIN., 1/4" ANGLE HOLE MAX.
OR
GRADE N, TYPE II, LIGHT-WEIGHT/MEDIUM WEIGHT/NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90, MORTAR MUST BE TYPE N, 3/8" DIA., POWER WEDGE-BOLT PLUS, STEEL, 6" SPACING MAX. 2" EDGE MIN., 2-1/2" EMBED. MIN. 7/16" ANGLE HOLE MAX.
6" WIDE TYPICAL

NOA # 19-0516.09

5 WALL LOUVER DETAIL
M-202 SCALE: NONE

NOTES:

1. THE INSTALLATION SHOWN HEREIN MUST BE FOLLOWED STRICTLY TO ENSURE COMPLIANCE WITH FLORIDA BUILDING CODE PRODUCT APPROVAL.
2. CONTINUOUS INSTALLATION ANGLES AND FASTENERS ARE SHIPPED LOOSE AND REQUIRE INSTALLATION IN THE FIELD.
3. SHIMS MAY BE REQUIRED TO ACHIEVE CONSISTENT CLEARANCE BETWEEN LOUVER AND OPENING ON ALL SIDES.
4. INSTALLATION DETAIL IS BASED UPON GREENHECK MODEL 'EHV-901D', IF AN ALTERNATE MANUFACTURER'S LOUVER IS USED, IT MUST BE INSTALLED WITH ITS FLORIDA PRODUCT APPROVAL.



NOTES:
SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.

PROVIDE FACTORY FABRICATED RETURN AIR PLENUM OR ENGINEER APPROVED EQUAL WITH 2" FILTER FRAME.

SIZE COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4".

6 VERTICAL UPFLOW AHU DETAIL
M-202 SCALE: NONE

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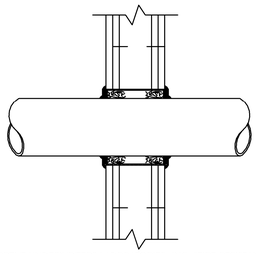


CONSULT CURRENT UNDERWRITERS LABORATORIES, INC. "FIRE RESISTANCE DIRECTORY" FOR DETAILS.
UL SYSTEM WL1003

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 U300 OR U400 SERIES WALL OR PARTITION DESIGN 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. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. **WALLBOARD, GYPSUM***—NOM 5/8 IN. THICK, 4 FT. 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 U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 15 IN.

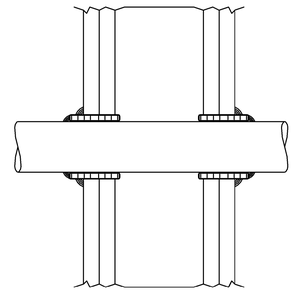
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. **THROUGH-PENETRANT**—ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPES, CONDUITS OR TUBING AND THE STEEL SLEEVE (ITEM 3A) SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2-3/8 IN. 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 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. **IRON PIPE**—NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. **CONDUIT**—NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
   D. **COPPER TUBING**—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. **COPPER PIPE**—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. **FIRESTOP SYSTEM**—INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
   A. **STEEL SLEEVE**—CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.019 IN. THICK (NO. 28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 2 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1 TO 4 IN. SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROXIMATELY 1/2 TO 2 IN. BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.
   B. **PACKING MATERIAL**—MIN 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MIN 1/2 IN. FROM END OF STEEL SLEEVE (FLUSH WITH OR RECESSED INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.
   B1. **PACKING MATERIAL**—(NOT SHOWN)—AS AN ALTERNATE TO ITEM B, NOM 1 IN. THICK POLYETHYLENE BACKER ROD MAY BE USED. THE BACKER ROD IS TO BE RECESSED WITHIN THE STEEL SLEEVE A MIN OF 1 IN. FROM EACH SURFACE OF WALL.
   C. **FILL, VOID OR CAVITY MATERIALS*—CAULK**—WHEN MINERAL WOOL BATT INSULATION IS USED, APPLIED TO FILL THE STEEL SLEEVE TO A MIN DEPTH OF 1/2 IN. ON BOTH SIDES OF WALL ASSEMBLY. WHEN BACKER ROD IS USED, A MIN THICKNESS OF 1 IN. OF CP-25WB+ CAULK IS REQUIRED FLUSH WITH SURFACE OF WALL. A NOM 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.
   MINNESOTA MINING & MFG. CO.—CP 25WB+

*BEARING THE UL CLASSIFICATION MARKING

1 M-203 **TYPICAL FIRE RATED WALL PENETRATION**
SCALE: NONE



CONSULT CURRENT UNDERWRITERS LABORATORIES, INC. "FIRE RESISTANCE DIRECTORY" FOR DETAILS.
UL SYSTEM WL2003

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 U300 OR U400 SERIES WALL OR PARTITION DESIGN 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. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. **WALLBOARD, GYPSUM***—5/8 IN. THICK, 4 FT 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 U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3-1/8 IN.

2. **THROUGH PENETRANTS**—ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED INTHE THROUGH OPENING. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 1/4 IN. AND MAX 3/8 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:
   A. **POLYVINYL CHLORIDE (PVC) PIPE**—NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
   B. **RIGID NONMETALLIC CONDUIT+**—NOM 4 IN. DIAM (OR SMALLER)(SCHEDULE 40 OR 80) PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRIC CODE (NFPA NO. 70).
   C. **CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE**—NOM 2 IN. DIAM (OR SMALLER) SDR17 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   D. **CELLULAR CORE POLYVINYL CHLORIDE (CCPVC) PIPE**—NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
   E. **ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE**—NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   F. **CELLULAR CORE ACRYLONITRILE BUTADIENE STYRENE (CCABS) PIPE**—NOM 2 IN. DIAM (OR SMALLER) SCHEDULE 40 CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.

3. **FIRESTOP SYSTEM**—INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F AND T RATINGS FOR THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.
   A. **FILL, VOID OR CAVITY MATERIALS*—WRAP STRIP**—NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND NONMETALLIC PIPE (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP PROTRUDES FROM THE WALL SURFACE.
   MINNESOTA MINING & MFG, CO.—FS-195+
   B. **FILL, VOID OR CAVITY MATERIALS*—CAULK OR PUTTY**—MIN 5/8 IN. THICKNESS OF CAULK OR PUTTY APPLIED INTO ANNULAR SPACE BETWEEN WRAP STRIP AND PERIPHERY OF OPENING. A NOM 1/4 IN. DIAM BEAD OF CAULK OR PUTTY TO BE APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYERS APPROX 3/4 IN. FROM THE WALL SURFACE. MINNESOTA MINING & MFG CO.—CP 25WB+ CAULK OR MPS-2 + PUTTY. (NOTE: L RATINGS APPLY ONLY WHEN TYPE CP-25 WB+ CAULK IS USED.)
   C. **FOIL TAPE**—(NOT SHOWN)—NOM 4 IN. WIDE, 3 MIL THICK ALUMINUM TAPE WRAPPED AROUND PIPE PRIOR TO THE INSTALLATION OF THE WRAP STRIP (ITEM 3A). MIN OF ONE WRAP, FLUSH WITH BOTH SIDES OF WALL AND PROCEEDING OUTWARD. TAPE IS NOT REQUIRED FOR PIPES SHOWN IN ITEMS 2A, 2B AND 2C.

*BEARING THE UL CLASSIFICATION MARKING

2 M-203 **TYPICAL FIRE RATED WALL PENETRATION**
SCALE: NONE

NOTE: ALL SYSTEMS DETAILED ON MECHANICAL PENETRATIONS SHEETS ARE BASED ON THE MANUFACTURERS SPECIFIED AS BASIS OF DESIGN AND APPLY TO MECHANICAL AND PLUMBING. THE CONTRACTOR SHALL SUBMIT A PENETRATIONS PACKAGE DETAILING EACH PENETRATION AND PRODUCTS TO BE USED TO THE PERMITTING AUTHORITY FOR THE ACTUAL SYSTEMS TO BE USED.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: IVB Checked By: **DNW**

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

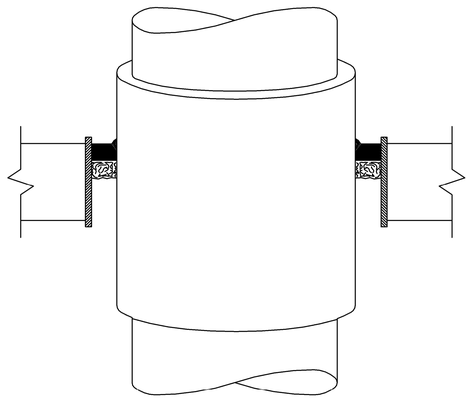
5230 US-98
PANAMA CITY, FL, 32401

REVISIONS
NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

HVAC FIRE PENETRATION DETAILS

M-203



CONSULT CURRENT UNDERWRITERS LABORATORIES, INC. "FIRE RESISTANCE DIRECTORY" FOR DETAILS.
UL SYSTEM CAJ5060

1. **FLOOR OR WALL ASSEMBLY**—MIN 2-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS***. F RATINGS AND T RATINGS ARE DEPENDENT ON THE MIN THICKNESS OF FLOOR OR WALL, AS WELL AS THE MAX SIZE OF THE PIPE AND THE NOM THICKNESS OF THE CELLULAR GLASS INSULATION, AS NOTED IN ITEM 3. MAX DIAM OF THROUGH OPENING IS 28-1/2 IN.
SEE **CONCRETE BLOCKS** (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAME OF MANUFACTURERS.

1A. **STEEL SLEEVE**—MAX 15 IN. ID (OR SMALLER), MIN 0.25 IN. WALL THICKNESS (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. T RATING IS 0 HR WHEN SLEEVE IS USED.

2. **THROUGH PENETRANTS**—ONE METALLIC PIPE OR TUBING TO BE POSITIONED 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 20 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. **COPPER TUBING**—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
C. **COPPER PIPE**—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. **PIPE COVERING MATERIALS*—CELLULAR GLASS INSULATION**—NOM 1-1/2 TO 3 IN. THICK CELLULAR GLASS UNITS SIZED TO THE OUTSIDE DIAM OF THE STEEL PIPE AND SUPPLIED IN NOM 24 IN. LONG HALF SECTIONS OR NOM 18 IN. LONG SEGMENTS. PIPE INSULATION INSTALLED ON PIPE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. F RATINGS AND T RATINGS ARE DEPENDENT ON THE ITEMS NOTED IN THE FOLLOWING TABLE:

MIN FLOOR OR WALL THKNS IN.	MAX PIPE DIAM IN.	NOM GLASS INSUL THKNS IN.	F RATING HR	T RATING HR
2-1/2	6	1-1/2 AND 3	2	3/4
4-1/2	6	1-1/2	3	1
4-1/2	6	3	3	1-1/2
4-1/2	20	1-1/2	2	1/2
4-1/2	20	3	2	1

PITTSBURGH CORNING CORP.—FOAMGLAS

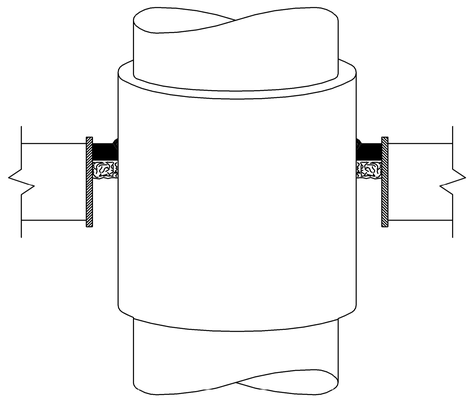
4. **PACKING MATERIAL**—MIN 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN 1 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE CAULK FILL MATERIAL (ITEM 5).

5. **FILL, VOID OR CAVITY MATERIALS*—CAULK**—INSTALLED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN., FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. A MIN 1/2 IN. DIAM BEAD OF CAULK SHALL BE APPLIED TO THE PIPE INSULATION/CONCRETE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF THE FLOOR AND ON BOTH SIDES OF WALLS.
MINNESOTA MINING & MFG. CO.—CP 25WB+

6. **METAL JACKET**—MIN 12 IN. LONG JACKET FORMED OF MIN 0.010 IN. THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MIN 2 IN. LAP AND SECURED USING BANDS AND SEALS OF SIMILAR MATERIAL. BANDS TO BE LOCATED WITHIN 2 IN. OF EACH END OF THE JACKET AND SPACED MAX 10 IN. OC. JACKET TO BE INSTALLED WITH EDGE ABUTING SURFACE OF CAULK FILL MATERIAL (ITEM 5) ON TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. METAL JACKET TO BE USED IN ADDITION TO ANY OTHER JACKETING MATERIAL WHICH MAY BE REQUIRED OR DESIRED ON THE PIPE INSULATION.

*BEARING THE UL CLASSIFICATION MARKING

1 TYPICAL FIRE RATED WALL/FLOOR PENETRATION
M-204 SCALE: NONE



CONSULT CURRENT UNDERWRITERS LABORATORIES, INC. "FIRE RESISTANCE DIRECTORY" FOR DETAILS.
UL SYSTEM CAJ5001

1. **FLOOR OR WALL ASSEMBLY**—MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150) PCF CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS***. MAX DIAM OF OPENING IS 18 IN. SEE **CONCRETE BLOCKS** (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. **STEEL SLEEVE**—NOM 10 IN. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. **T RATING IS 0 HR WHEN SLEEVE IS USED.**

2. **THROUGH PENETRANT**—NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE OR NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

3. **PIPE COVERING***—NOM 1/2 TO 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 OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. SEE PIPE AND EQUIPMENT COVERING—MATERIALS*(BRGU) CATEGORY IN 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. **FIRESTOP SYSTEM**—THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. **PACKING MATERIAL**—MIN 1 IN. 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).
B. **FILL, VOID OR CAVITY MATERIAL***—CAULK—APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOOR OR SLEEVE OR FLUSH WITH BOTH SURFACES OF WALL. WHEN NOM PIPE COVERING THICKNESS IS 2 IN., MIN THICKNESS OF CAULK FILL MATERIAL IS 2 IN. WHEN NOM PIPE COVERING THICKNESS IS 1-1/2 IN. OR LESS, MIN THICKNESS OF CAULK FILL MATERIAL IS 1 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOOR OR WALL, THE SIZE OF PIPE, THE THICKNESS OF PIPE COVERING MATERIAL AND THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL AND THE EDGE OF THE CIRCULAR THROUGH OPENING), AS SHOWN IN THE FOLLOWING TABLE:

MIN FLOOR OR WALL THKNS IN.	MAX PIPE DIAM IN.	NOM PIPE COVERING THKNS IN.	ANNULAR SPACE IN.	F RATING HR	T RATING HR
2-1/2	4	1 OR 1-1/2	1/2 TO 2-3/8	2	1
4-1/2	4	2	1/4 TO 3-5/8	2	1-1/2
2-1/2	12	1	1/2 TO 1-1/2	2	1/2
4-1/2	12	1	1/2 TO 2-3/8	3	1
2-1/2	12	1/2	1/2 TO 2-3/8	2	0

MINNESOTA MINING & MFG. CO.—CP 25WB+.

*BEARING THE UL CLASSIFICATION MARKING

2 TYPICAL FIRE RATED WALL/FLOOR PENETRATION
M-204 SCALE: NONE

NOTE: ALL SYSTEMS DETAILED ON MECHANICAL PENETRATIONS SHEETS ARE BASED ON THE MANUFACTURERS SPECIFIED AS BASIS OF DESIGN AND APPLY TO MECHANICAL AND PLUMBING. THE CONTRACTOR SHALL SUBMIT A PENETRATIONS PACKAGE DETAILING EACH PENETRATION AND PRODUCTS TO BE USED TO THE PERMITTING AUTHORITY FOR THE ACTUAL SYSTEMS TO BE USED.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: IVB Checked By: DNW

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

HVAC FIRE PENETRATION DETAILS

M-204

VERTICAL INSTALLATION

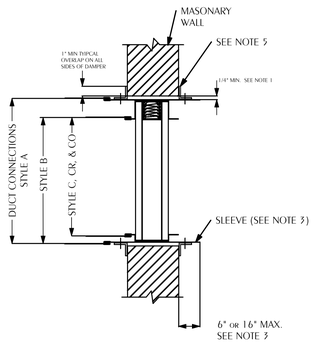
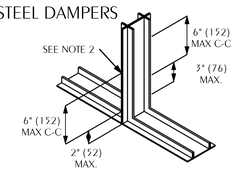


FIGURE 1

STAINLESS STEEL DAMPERS



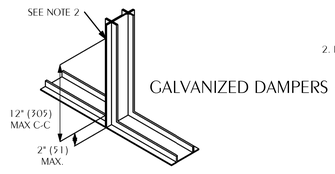


FIGURE 2
1 1/2 HOUR

HORIZONTAL INSTALLATION

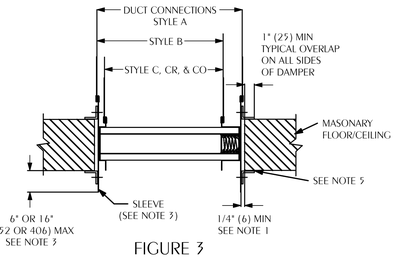


FIGURE 3

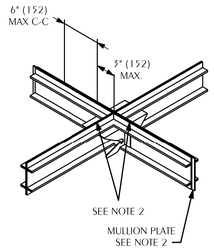


FIGURE 4
1 1/2 HOUR

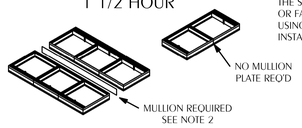
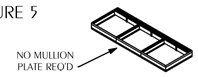


FIGURE 5



1. OPENING CLEARENCE
THE OPENING IN THE WALL OR FLOOR SHALL BE LARGER THAN THE DAMPER/SLEEVE ASSEMBLY TO PERMIT INSTALLATION OR EXPANSION. FOR TWO ANGLE INSTALLATIONS THE OPENING SHALL BE A MINIMUM OF 1/8" PER FOOT (3 PER 305) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAXIMUM OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT (3 PER 305) PLUS 2" (51), NOR SHALL THE OPENING BE LESS THAN 1/4" (6) LARGER THAN THE DAMPER/SLEEVE ASSEMBLY. FOR ONE ANGLE INSTALLATIONS, THE OPENING SHALL BE A MINIMUM OF 1/4" (6) TO A MAXIMUM OF 1" (25) LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE OPENING MAY BE AS MUCH AS 2" (51) LARGER THAN THE DAMPER/SLEEVE ASSEMBLY IF A 16GA (1.6) MOUNTING ANGLES IS UTILIZED.

2. FASTENERS AND MULTIPLE SECTION ASSEMBLY
USE NO. 10 (M5) BOLTS OR SCREWS, 3/16" (5) RIVETS, TACK WELDS AS DEPICTED IN FIGURES 3 AND 4 SPACED AS FOLLOWS WHEN JOINING INDIVIDUAL DAMPERS TO MAKE MULTIPLE SECTION DAMPER ASSEMBLIES OR WHEN FASTENING DAMPER TO THE SLEEVE:

VERTICAL MOUNT (IN WALL)	
GALVANIZED STEEL DAMPERS	12" (305) SPACING
STAINLESS STEEL DAMPERS	6" (152) SPACING
HORIZONTAL MOUNT (IN FLOOR)	
ALL DAMPERS	6" (152) SPACING

MULTIPLE SECTION HORIZONTAL MOUNT DAMPERS REQUIRE A 14 GAGE THICK x 4-1/2" (2 x 114) WIDE STEEL REINFORCING PLATE SANDWICHED BETWEEN THE DAMPER FRAMES WITH 1/2" (13) LONG WELDS STAGGERED INTERMITTENTLY AND SPACED ON MAXIMUM 6" (152) CENTERS. THE REINFORCING PLATE MUST BE THE SAME MATERIAL AS THE DAMPERS. THE LENGTH MUST BE EQUAL TO THE DAMPER WIDTH OF TWO OR MORE ADJOINING DAMPER SECTIONS. REINFORCING PLATES ARE NOT REQUIRED FOR ASSEMBLIES CONSISTING OF TWO DAMPERS ATTACHED END-TO-END OR THREE DAMPERS ATTACHED SIDE-TO-SIDE AS DEPICTED IN FIGURE 5.

3. DAMPER SLEEVE
SLEEVE THICKNESS MUST BE EQUAL TO OR THICKER THAN THE DUCT CONNECTED TO IT. SLEEVE REQUIRMENTS ARE LISTED IN THE SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS AND IN NFPA 90A. IF A BREAKAWAY STYLE DUCT/SLEEVE CONNECTION IS NOT USED, THE SLEEVE SHALL BE A MINIMUM OF 16 GAGE (1.6) FOR DAMPERS UP TO 36" (914) WIDE BY 24" (610) HIGH AND 14 GAGE (1.9) FOR DAMPERS EXCEEDING 36" (914) WIDE BY 24" (610) HIGH. DAMPER SLEEVE SHALL NOT EXTEND MORE THAN 6" (152) BEYOND THE FIRE WALL OR PARTITION UNLESS DAMPER IS EQUIPPED WITH A FACTORY INSTALLED ACCESS DOOR. SLEEVE MAY EXTEND UP TO 16" (406) BEYOND THE FIRE WALL OR PARTITION ON SIDES EQUIPPED WITH A FACTORY INSTALLED ACCESS DOOR. SLEEVE SHALL TERMINATE AT BOTH SIDES OF WALL WITHIN DIMENSIONS SHOWN.

4. DAMPER ORIENTATION
USE "AIR FLOW" AND "MOUNT WITH ARROW UP" LABELS ON DYNAMIC DIBD AND DIBDX MODELS FOR PROPER DAMPER ORIENTATION. FOR STATIC IBD MODELS USE ONLY "MOUNT WITH ARROW UP" LABEL ON DAMPER ORIENTATION.

5. MOUNTING ANGLES
MOUNTING ANGLES SHALL BE A MINIMUM OF 1-1/2" x 1-1/2" x 20 GAGE STEEL (38 x 38 x 1.0). FOR OPENINGS IN METAL STUD, WOOD STUD WALLS OR CONCRETE/MASONRY WALLS AND FLOORS OF SIZES 90" x 49" OR 49" x 90" (2286 x 1245 OR 1245 x 2286) AND LESS MOUNTING ANGLES ARE ONLY REQUIRED ON ONE SIDE OF THE WALL OR TOP SIDE OF THE FLOOR AND MUST BE ATTACHED TO BOTH THE SLEEVE AND THE WALL OR FLOOR. MOUNTING ANGLES MAY BE INSTALLED DIRECTLY TO THE METAL STUD UNDER THE WALL BOARD ON METAL STUD WALL INSTALLATIONS ONLY. LARGER OPENINGS REQUIRE MOUNTING ANGLES ON BOTH SIDES OF THE PARTITION AND MUST BE ATTACHED ONLY TO THE SLEEVE MOUNTING ANGLES MUST OVERLAP THE PARTITION A MINIMUM OF 1" (25). DO NOT WELD OR FASTEN ANGLES TOGETHER AT CORNERS OF DAMPERS. RUSKIN FIRE DAMPERS MAY BE INSTALLED USING RUSKIN FAST ANGLE FOR ONE ANGLE INSTALLATION OR RUSKIN PFMA FOR TWO ANGLE INSTALLATIONS.

A. MOUNTING ANGLE FASTENERS
SLEEVE: #10 BOLTS OR SCREWS, 3/16" (5) STEEL RIVETS OR 1/2" (13) LONG WELDS.
MASONRY/WALL OR FLOOR: #10 SELF-TAPPING CONCRETE SCREWS.
WOOD/STEEL STUD WALL: #10 SCREWS

B. MOUNTING ANGLE FASTENERS SPACING
FOR ONE ANGLE INSTALLATIONS THE SLEEVE FASTENERS SHALL BE SPACED AT 6" (152) O.C. AND THE WALL OR FLOOR FASTENERS SHALL BE SPACED AT 12" (305) O.C. WITH A MINIMUM OF 2 FASTENERS ON EACH SIDE, TOP AND BOTTOM. SCREW FASTENERS USED IN METAL STUD MUST ENGAGE THE METAL STUD A MINIMUM OF 1/2" (13). SCREW FASTENERS USED IN WOOD STUD MUST ENGAGE THE WOOD STUD A MINIMUM OF 3/4" (19). SCREW FASTENERS USED IN MASONRY WALLS OR FLOORS MUST ENGAGE THE WALL A MINIMUM OF 1-1/2" (38). FOR TWO ANGLE INSTALLATIONS THE FASTENERS SHALL BE SPACED AT 8" (203) O.C.

6. DUCT/SLEEVE CONNECTIONS
A. BREAK-AWAY DUCT/SLEEVE CONNECTIONS
RECTANGULAR DUCTS MUST USE ONE OR MORE OF THE CONNECTIONS: PLAIN "S" SLIP, DOUBLE "S" SLIP, INSIDE SLIP JOINT, STANDING "S", STANDING "S" (ANGLE REINFORCED), STANDING, STANDING "S" (BAR REINFORCED), STANDING "S" (ANGLE REINFORCED, OR DRIVE SLIP JOINT). A MAXIMUM OF TWO #10 SHEET METAL SCREWS ON EACH SIDE AND THE BOTTOM, LOCATED IN THE CENTER OF THE SLIP POCKET AND PENETRATING BOTH SIDES OF THE SLIP POCKET MAY BE USED. CONNECTIONS USING THESE SLIP JOINTS ON THE TOP AND BOTTOM WITH FLAT DRIVE SLIPS UP TO 20" (508) LONG ON THE SIDES MAY ALSO BE USED.

B. ROUND AND OVAL BREAK-AWAY CONNECTIONS
ROUND AND FLAT OVAL BREAK-AWAY CONNECTIONS MUST USE EITHER A 4" (102) WIDE DRAWBAND OR #10 SHEET METAL SCREWS SPACED EQUALLY AROUND THE CIRCUMFERENCE OF THE DUCT AS FOLLOWS:
-DUCT DIAMETERS 22" (559) AND SMALLER - MAX. 3 SCREWS.
-DUCT DIAMETERS OVER 22" (559) AND INCLUDING 36" (914) - MAX. 5 SCREWS
-DUCT DIAMETERS OVER 36" (914) AND UP TO AND INCLUDING 191" (4851) TOTAL PERIMETER - MAX. 8 SCREWS. FOR FLAT OVAL DUCTS, THE DIAMETER IS CONSIDERED THE LARGEST (MAJOR) DIMENSION OF THE DUCT.
NOTE: WHEN OPTIONAL SEALING OF THESE JOINTS IS DESIRED, THE FOLLOWING SEALENTS MAY BE APPLIED IN ACCORDANCE WITH THE SEALENT MANUFACTURER'S INSTRUCTIONS:

HARDCAST, INC. - IRON GRIP 601	PRECISION - PA2084T
ECO DUCT SEAL 44-52	DESIGN POLYMERICS - DP 1010

C. FLANGED BREAK-AWAY STYLE DUCT SLEEVE CONNECTIONS
FLANGED CONNECTION SYSTEMS MANUFACTURED BY DUCTMATE, NEXUS OR WARD ARE APPROVED BREAK-AWAY CONNECTIONS WHEN INSTALLED AS SHOWN ON THE FLANGED SYSTEM BREAKAWAY CONNECTIONS SUPPLEMENT. TDC AND TDF ROLL-FORMED FLANGED CONNECTIONS USING 3/8" (10) STEEL BOLTS AND NUTS, AND METAL CLEATS, AS TESTED BY SMACNA, ARE APPROVED BREAK-AWAY CONNECTIONS WHEN INSTALLED AS SHOWN ON THE FLANGED SYSTEM BREAKAWAY CONNECTIONS SUPPLEMENT.

D. NON-BREAK-AWAY DUCT/SLEEVE CONNECTIONS
IF OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE A MINIMUM OF 16 GAGE (1.6) FOR DAMPERS UP TO 36" (914) WIDE x 24" (610) HIGH AND 14 GAGE (2.0) FOR DAMPERS EXCEEDING 36" (914) WIDE x 24" (610) HIGH.

7. INSTALLATION AND MAINTENANCE
TO ENSURE OPTIMUM OPERATION AND PERFORMANCE, THE DAMPER MUST BE INSTALLED SO IT IS SQUARE AND FREE FROM RACKING. EACH FIRE DAMPER SHOULD BE MAINTAINED AND TESTED ON A REGULAR BASIS AND IN ACCORDANCE WITH THE LATEST EDITIONS OF NFPA 90A AND LOCAL CODES. CARE SHOULD BE EXERCISED TO ENSURE THAT SUCH TESTS ARE PERFORMED SAFELY AND DO NOT CAUSE SYSTEM DAMAGE.

TYPICAL HORIZONTAL AND VERTICAL FIRE DAMPER DETAIL

1 / M-205 SCALE: NONE

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

WATFORD ENGINEERING
4402 Clinton Street, Marianna, Florida 32446 Florida Certificate of Authorization: 27825
850.526.3447 Project Number: 2024-096 David N Watford, PE Florida License 58208
Drawn By: IVB Checked By: DNW

GULF COAST STATE COLLEGE

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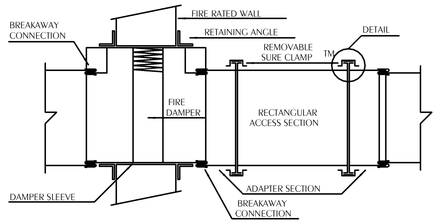
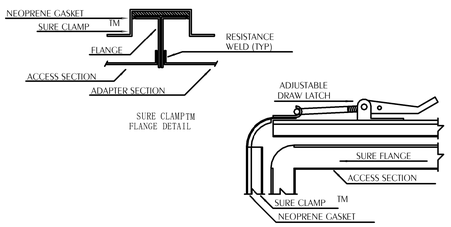
Project Number **25004**
Dated 08.29.2025

HVAC FIRE PENETRATION DETAILS

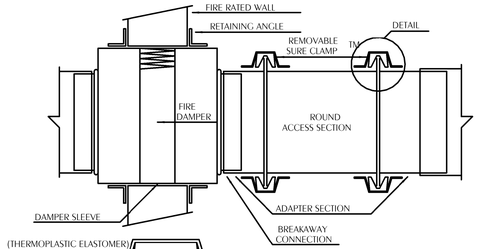
M-205





SURE • CLAMP ACCESS TM

RECTANGULAR REMOVABLE DUCTWORK SECTION
FIRE DAMPER ACCESS "NOT TO SCALE"



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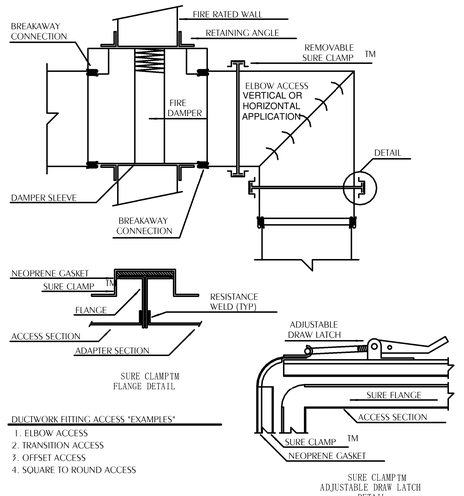
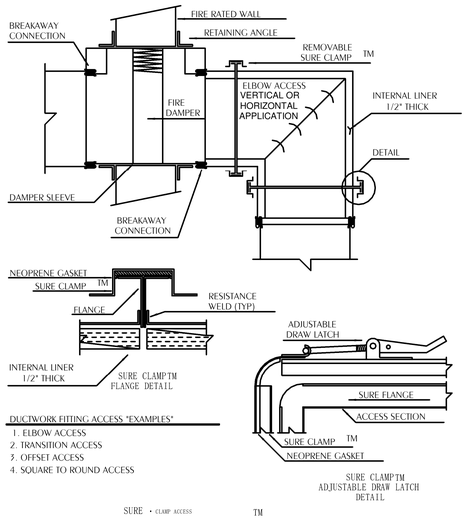
ROUND REMOVABLE DUCTWORK SECTION
FIRE DAMPER ACCESS "NOT TO SCALE"



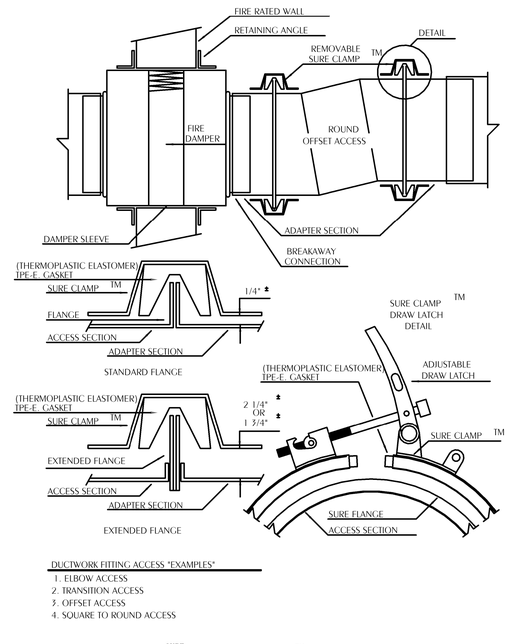
SURE • CLAMP ACCESS TM

RECTANGULAR REMOVABLE DUCTWORK FITTING SECTION
FIRE DAMPER ACCESS "NOT TO SCALE"



SURE • CLAMP ACCESS TM

RECTANGULAR REMOVABLE DUCTWORK FITTING SECTION
FIRE DAMPER ACCESS INTERNAL LINER "NOT TO SCALE"



SURE • CLAMP ACCESS TM

ROUND REMOVABLE DUCTWORK FITTING SECTION
FIRE DAMPER ACCESS "NOT TO SCALE"

PROVIDE REMOVABLE DUCTWORK SECTION PER DETAIL FOR ALL FIRE DAMPERS WHERE A MINIMUM 12"X12" DUCT ACCESS PANEL CAN NOT BE PROVIDED.

1 REMOVABLE DUCTWORK DETAILS
M-206 SCALE: NONE

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

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HVAC REMOVABLE DUCT DETAILS

M-206

DIRECT DIGITAL CONTROLS GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE NEW DDC CONTROLLERS TO PERFORM THE INDICATED SEQUENCES, ALL OTHER FUNCTIONS REQUIRED BY THE CONTRACT DOCUMENTS, AND ALL OTHER FUNCTIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. CONTROLLERS SHALL TIE INTO EXISTING SYSTEM.
2. ALL SEQUENCES ARE SUBJECT TO SAFETIES. DDC CONTRACTOR SHALL PROVIDE ALL NECESSARY AND CUSTOMARY SAFETIES.
3. ALL WIRING SHALL BE IN CONDUIT. ALL CONDUIT SHALL BE IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS, REQUIREMENTS FOR 120 VAC CIRCUITS.
4. ALL CONTROL TUBING SHALL BE RUN IN CONDUIT. ALL CONDUIT SHALL BE IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS, REQUIREMENTS FOR 120 VAC CIRCUITS.
5. THE DDC CONTRACTOR IS CO-RESPONSIBLE, ALONG WITH THE TAB CONTRACTOR FOR COORDINATING THE PROPER INSTALLATION OF WELLS, PRESSURE TAPS, AND P/T TAPS IN ALL LOCATIONS INDICATED AND OTHERWISE AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
6. THE DDC CONTRACTOR AND THE TAB CONTRACTOR SHALL UTILIZE P/TS TO CALIBRATE INSTRUMENTS TO CERTIFIED PRESSURE GAGES, PRESSURE METERS AND THERMOMETERS.
7. CONDUIT SHALL BE RUN PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A FIRST CLASS WORKMANSHIP LIKE MANNER.

SEQUENCE OF OPERATION
100% OUTSIDE AIR UNIT

GENERAL: THE DDC CONTRACTOR SHALL INSTALL FIELD MOUNTED SENSORS PROVIDED BY THE UNIT MANUFACTURER. THE DDC SYSTEM SHALL CONNECT TO THE UNITS BACnet INTERFACE TO READ THE POINTS INDICATED. THE DDC SYSTEM SHALL PROVIDE OCCUPIED/UNOCCUPIED SIGNAL TO THE FACTORY MOUNTED UNIT CONTROLLER, MONITOR ALARM STATUS, AND MONITOR VALUES INDICATED. THE DDC SHALL MONITOR BUILDING RELATIVE HUMIDITY (BACnet POINTS FROM ROOM THERMOSTATS) AND OUTSIDE AIR SUPPLY AIR DEWPOINT TEMPERATURE. WHEN THE OA DEWPOINT SUPPLY AIR TEMPERATURE RISES ABOVE 60°F FOR MORE THAN 10 MINUTES (ADJUSTABLE), THE DDC SHALL POST AN ALARM AND SHUT DOWN THE OUTSIDE AIR UNIT.

SUPPLY AIR RESET-TEMPERATURE BASED: AT THE START OF EACH PERIOD OF OCCUPANCY, THE DDC SHALL SET SUPPLY AIR TEMPERATURE TO 60°F. THE DDC SYSTEM SHALL MONITOR THE ASSOCIATED AHU'S AND RTU'S IN THE AREAS SERVED BY EACH OAU. UPON A CALL FOR HEATING FROM MORE THAN 10% OF THE UNITS SERVED BY THE OAU, THE DDC SHALL RESET OAU DISCHARGE AIR TEMPERATURE UP IN 5°F INCREMENTS UNTIL THERE ARE FEWER THAN 10% OF THE UNITS SERVED WITH HEATING DEMAND OR A MAXIMUM SUPPLY AIR TEMPERATURE OF 75°F HAS BEEN REACHED. OAU-1,2 ONLY: THE DDC SHALL SET THE INITIAL SUPPLY AIR SETPOINT TO 55°F, MONITOR THE SPACE TEMPERATURE IN ROOM 45 CORRIDOR, AND RESET SUPPLY AIR TEMPERATURE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT 74°F.

SUPPLY AIR RESET-HUMIDITY BASED: THE DDC SYSTEM SHALL MONITOR THE ASSOCIATED AHU'S AND RTU'S IN THE AREAS SERVED BY EACH OAU. UPON A RISE IN AVERAGE RELATIVE HUMIDITY ABOVE 65% (ADJUSTABLE), THE DDC SHALL RESET OAU DISCHARGE AIR TEMPERATURE UP IN 5°F INCREMENTS UNTIL THE CALL FOR DEHUMIDIFICATION HAS BEEN SATISFIED OR A MAXIMUM SUPPLY AIR TEMPERATURE OF 75°F HAS BEEN REACHED.

THE FOLLOWING SEQUENCE OF OPERATIONS SHALL BE PROVIDED BY THE UNIT MANUFACTURER:

GENERAL: STARTING AND STOPPING OF EQUIPMENT SHALL BE BY A UNIT MOUNTED DIGITAL CONTROLLER. WITH THE DIGITAL CONTROLLER IN THE AUTO-POSITION, THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE ELECTRONIC CONTROL SYSTEM AND ALL CONTROLS ACTIVATED SUBJECT TO THE FIRE ALARM RELAY, SAFETIES AND OVERLOADS.

OCCUPIED MODE DEHUMIDIFACTION: THE MOTORIZED OA DAMPER SHALL OPEN TO THE BALANCED POSITION AND THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE UNIT SHALL DEHUMIDIFY SUPPLY TO A SET POINT OF 50°F DEWPOINT AIR ANYTIME THE OUTDOOR AIR DEWPOINT IS ABOVE 55°F. THE UNIT SHALL REHEAT SUPPLY AIR TO THE SETPOINT PASSED DOWN FROM THE DIGITAL CONTROLS SYSTEM.

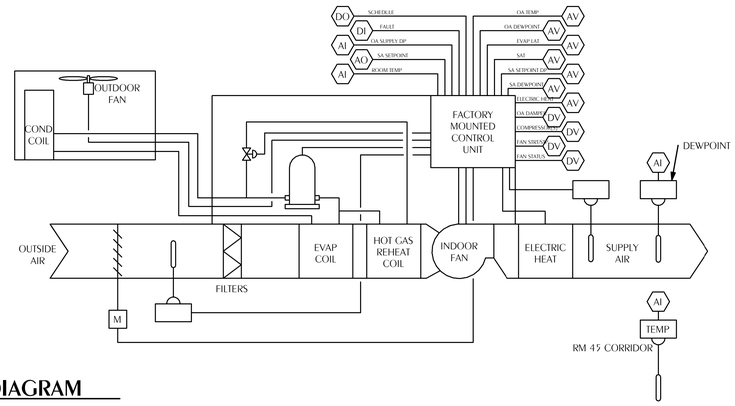
OCCUPIED MODE HEATING: WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 50°F, THE ELECTRIC HEAT SHALL OPERATE AS REQUIRED TO MAINTAIN 70°F LEAVING AIR TEMPERATURE. THE ELECTRIC HEAT SHALL BE LOCKED OUT DURING COOLING.

UNOCCUPIED MODE: THE MOTORIZED OA DAMPER SHALL CLOSE AND THE UNIT SHALL NOT OPERATE.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE AND THE OUTSIDE AIR DAMPER FOR THE UNIT IN OVERRIDE SHALL OPEN TO THE BALANCED POSITION.

100% OUTSIDE AIR UNIT POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS/FUNCTIONS					
POINT NAME	AI	AO	DI	DO	AV	DV	SCHED	TREND	ALARM	GRAPHIC
SCHEDULE				X						X
FAULT			X						X	X
OUTSIDE AIR SUPPLY DEW POINT	X								X	X
SUPPLY AIR SETPOINT		X								X
ROOM TEMP (45 CORRIDOR)	X									X
OUTDOOR AIR TEMP					X					X
OUTSIDE AIR DEW POINT					X					X
EVAPORATOR LEAVING TEMP					X					X
SUPPLY AIR TEMP					X					X
SUPPLY AIR SETPOINT-DEWPOINT					X					X
SUPPLY AIR DEWPOINT					X					X
ELECTRIC HEAT					X					X
OA DAMPER						X				X
COMPRESSOR(S)						X				X
FAN START/STOP						X				X
FAN STATUS						X			X	X



2 M-301 100% OUTSIDE AIR UNIT CONTROL DIAGRAM
SCALE: NONE

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

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Project Number **25004**

Dated 08.29.2025

HVAC CONTROLS

M-301

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SEQUENCE OF OPERATION
HEAT PUMP-PRETREATED OA

GENERAL: THE UNIT SHALL BE STARTED AUTOMATICALLY BY THE BACNET THERMOSTAT. ALL CONTROLS ACTIVATED SUBJECT TO THE FIRE ALARM RELAY, SAFETIES AND OVERLOADS. THE DDC SYSTEM SHALL INCLUDE A GRAPHIC FOR EACH UNIT AND COMMUNICATE THE INDICATED VALUES AND SETPOINTS ON THE GRAPHIC. THE DDC SHALL POST AN ALARM WHEN THE RELATIVE HUMIDITY EXCEEDS 65% (ADJUSTABLE) AND TEMPERATURE EXCEEDS SETPOINT ±5°F FOR SPACE TEMPERATURE MORE THAN 1 HOUR AFTER OCCUPIED MODE BEGINS. PROVIDE OVERFLOW PAN MOUNTED FLOAT SWITCH TO CUT CONTROLS POWER TO THE UNIT UPON CONDENSATE OVERFLOW FOR HORIZONTAL AHU'S MOUNTED ABOVE CEILING.

OCCUPIED MODE (UNITS WITH OA DUCTED TO RETURNS): THE INDOOR FAN SHALL RUN CONTINUALLY AND THE HEAT PUMP SHALL CYCLE WITH A CALL FOR HEATING AND COOLING. THE SET POINT FOR COOLING SHALL BE 75°F ADJUSTABLE FROM THE GRAPHIC. THE SET POINT FOR HEATING SHALL BE 70°F ADJUSTABLE FROM THE GRAPHIC. THE SUPPLEMENTAL ELECTRIC HEAT SHALL OPERATE AS A SECOND STAGE OF HEATING ENABLED ONLY DURING DEFROST OR WHEN THE OUTDOOR TEMPERATURE IS BELOW 35°F AND THE HEAT PUMP CAN NOT SATISFY THE CALL FOR HEATING AFTER 20 MINUTES OF RUN TIME.

OCCUPIED MODE (UNITS WITH OA DUCTED DIRECTLY TO THE SPACE): THE INDOOR FAN AND THE HEAT PUMP SHALL CYCLE WITH A CALL FOR HEATING AND COOLING. THE SET POINT FOR COOLING SHALL BE 75°F ADJUSTABLE FROM THE GRAPHIC. THE SET POINT FOR HEATING SHALL BE 70°F ADJUSTABLE FROM THE GRAPHIC. THE SUPPLEMENT ELECTRIC HEAT SHALL OPERATE AS A SECOND STAGE OF HEATING ENABLED ONLY DURING DEFROST OR WHEN THE OUTDOOR TEMPERATURE IS BELOW 35°F AND THE HEAT PUMP CAN NOT SATISFY THE CALL FOR HEATING AFTER 20 MINUTES OF RUN TIME.

UNOCCUPIED MODE: THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SET POINT TEMPERATURE. THE SET POINT FOR COOLING SHALL BE 80°F ADJUSTABLE FROM THE GRAPHIC. THE SET POINT FOR HEATING SHALL BE 65°F ADJUSTABLE FROM THE GRAPHIC.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HR.

HEAT PUMP-PRETREATED OA POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS/FUNCTIONS					
POINT NAME	AI	AO	DI	DO	AV	DV	SCHED	TREND	ALARM	GRAPHIC
OCCUPIED/UNOCCUPIED SCHED				X						X
BMS TEMPERATURE SETPOINT		X								X
ZONE COOLING SETPOINT	X									X
ZONE HEATING SETPOINT	X								X	X
ZONE TEMP	X								X	X
ZONE RELATIVE HUMIDITY	X								X	X
SUPPLY AIR TEMP	X									X
REVERSING VALVE				X						X
ION GEN STATUS			X						X	X
SUPPLY FAN			X							X
SUPPLY FAN STATUS				X						X

1 HEAT PUMP-PRETREATED OA CONTROL DIAGRAM
M-302 SCALE: NONE

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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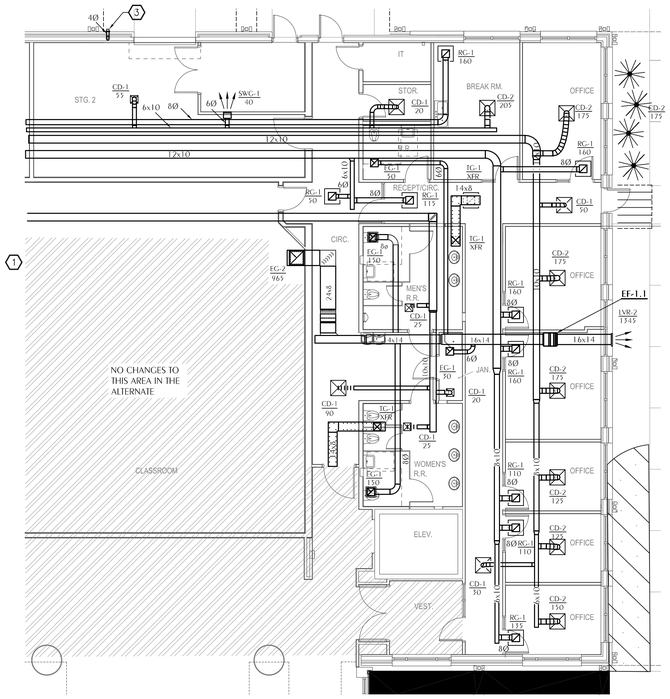
HVAC CONTROLS

M-302

SHEET NOTES

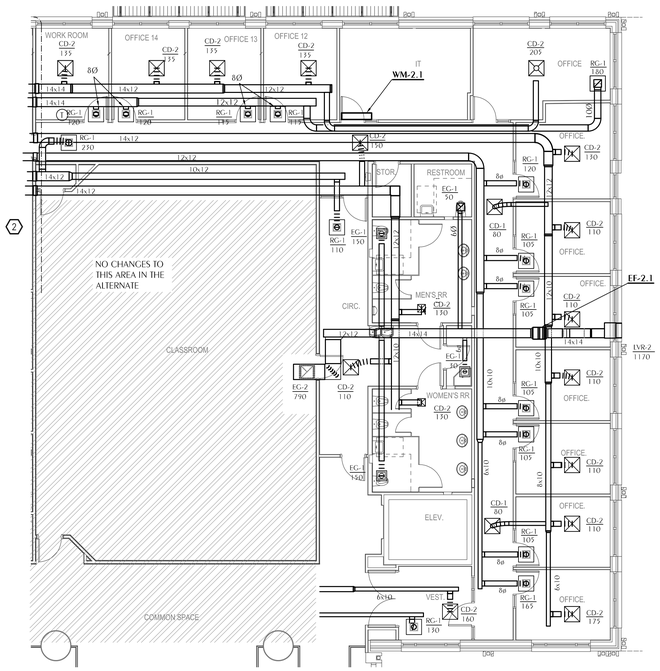
1. REFER TO M-111 FOR CONTINUATION AND FOR WORK IN SHADED AREA.
2. REFER TO M-112 FOR CONTINUATION AND FOR WORK IN SHADED AREA.
3. PROVIDE SEIHO MODEL SZFC VENT CAP WITH BACKDRAFT DAMPER FOR DRYER EXHAUST.



N PROJECT NORTH / N TRUE NORTH — 1 / M-131

HVAC ALTERNATE FLOOR PLAN-LEVEL 1

SCALE: 1/8" = 1'-0"



N PROJECT NORTH / N TRUE NORTH — 2 / M-131

HVAC ALTERNATE FLOOR PLAN-LEVEL 2

SCALE: 1/8" = 1'-0"

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HVAC ALTERNATE FLOOR PLANS

M-800

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.

B. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.

C. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.

D. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.

E. PROVIDE BUSHINGS ON ALL CONDUIT

F. .COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.

G. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.

H. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.

I. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	COPPER
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
Z	HERTZ (CYCLE) PER SECOND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND - GROUND TRIP UNITS
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
∅	PHASE
PNL	PANELBOARD
SEC	SECONDARY
SW	SWITCH
UG	UNDERGROUND
V	VOLT
W	WATT
XFMR	TRANSFORMER

RECEPTACLES

SYMBOL	DESCRIPTION	SPECIFICATION
	DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5352
	QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5352
	DUPLEX GFCI RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES GF5362
	DUPLEX TAMPER RESISTANT RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R A = PROVIDE WITH TWO (2) USB-A PORTS	HUBBELL SERIES BR20xxTR HUBBELL SERIES USB20A
	QUAD TAMPER RESISTANT RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES BR20xxTR
	DUPLEX TAMPER RESISTANT GFCI RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES GFTR20
	DUPLEX TVSS RECEPTACEL; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5362SA
	SIMPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES RR201WTR
	DUPLEX RECEPTACLE HALF SWITCHED	SEE DUPLEX RECEPTACLE
	QUAD RECEPTACLE HALF SWITCHED	SEE QUAD RECEPTACLE
X	SPECIAL PURPOSE RECEPTACLE. "X" INDICATES DEVICE TYPE. DEVICE TYPE: A = 125V, 30A, 3W, NEMA L5-30R B = 250V, 30A, 4W, NEMA 14-30R	A = HUBBELL SERIES HBL2610 B = HUBBELL SERIES HBL9430A
	RECEPTACLE INSTALLED IN FLOOR BOX/POKE THRU. DEVICE TYPE AS INDICATED; QUAD IS SHOWN.	SEE DETAILS; REFER TO DEVICE TYPE
	RECEPTACLE INSTALLED IN CEILING. DEVICE TYPE AS INDICATED; DUPLEX IS SHOWN.	REFER TO DEVICE TYPE
DESIGNATION	**DESCRIPTION**	**SPECIFICATION**
+XX"	MOUNTING HEIGHT INDICATION FOR OTHER THAN 18" AFF TO C/L. +XX" SHALL INDICATED MOUNTING INCHES ABOVE FINISHED FLOOR TO CENTER LINE. MOUNTING HEIGHT SHALL BE FIELD COORDINATED FOR THE FOLLOWING: +AC" = ABOVE COUNTER. +DF" = DRINKING FOUNTAIN +HB" = MEDICAL HEADBOARD +TV" = TELEVISION +SB" = SMARTBOARD/INTERACTIVE FLAT PANEL +TS" = TEACHER STATION RECEPTACLE +DW" = DISHWASHER RECEPTACLE	
WP	"WP" INDICATES WEATHER PROOF DEVICE AND WEATHER PROOF IN-USE COVER.	COVER: PASS AND SEYMOUR WIUFC10S REFER TO SPECIFICATIONS
PTA	"PTA" INDICATES BOX TYPE. EXAMPLE SHOWN INDICATES POKE THRU BOX "A".	SEE DETAILS FOR INDICATED BOX TYPE

RECEPTACLE NOTES

1. ANY RECEPTACLE LOCATED IN WET ENVIRONMENT PROVIDE THE EQUIVALENT WP VERSION OF RECEPTACLE.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
4. MOUNT RECEPTACLES 18" AFF TO C/L UNLESS NOTED OTHERWISE.

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION	SPECIFICATION
	SURFACE MOUNTED PANEL; LINE TO GROUND VOLTAGE GREATER THAN 150V; TYP. 480Y/277V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
	SURFACE MOUNTED PANEL; LINE TO GROUND VOLTAGE LESS THAN 150V; TYP. 208Y/120V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
	FLUSH MOUNTED PANEL; LINE TO GROUND VOLTAGE GREATER THAN 150V; TYP. 480Y/277V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
	FLUSH MOUNTED PANEL; LINE TO GROUND VOLTAGE LESS THAN 150V; TYP. 208Y/120V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
T	TRANSFORMER	SEE RISER; REFER TO SPECIFICATIONS
	NON-FUSED DISCONNECT	SEE EQUIP. SCHEDULE; REFER TO SPECIFICATIONS
	FUSED DISCONNECT	SEE EQUIP. SCHEDULE; REFER TO SPECIFICATIONS
MTS	TRANSFER SWITCH; AUTOMATIC INDICATED AS "ATS", MANUAL INDICATED AS "MTS"	SEE RISER; REFER TO SPECIFICATIONS
DESIGNATION	**DESCRIPTION**	
MDP	EQUIPMENT NAME INDICATION; EXAMPLE SHOWN AS "MDP"	
30/3/3R	DISCONNECT SIZE INDICATION SHALL BE AMPS/POLES/NEMA-RATING; EXAMPLE SHOWN IS 30 AMPS, 3 POLES, NEMA 3R	

EQUIPMENT NOTES

1. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM. REFER TO EQUIPMENT LABELING DETAILS.
2. LOCATION OF DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO EQUIPMENT LABELING DETAILS.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO EQUIPMENT LABELING DETAILS.

POWER DEVICES

SYMBOL	DESCRIPTION	SPECIFICATION
	JUNCTION BOX WALL MOUNTED	REFER TO SPECIFICATIONS
	JUNCTION BOX ABOVE CEILING	REFER TO SPECIFICATIONS
	JUNCTION BOX MOUNTED IN FLOOR	REFER TO SPECIFICATIONS
	RED MUSHROOM EMERGENCY STOP; MAINTAINED PUSH AND KEY RELEASE; LABEL 'EMERGENCY STOP'	SQUARE D MODEL XB6AS9345B. SEE DETAILS.
S_{2P}	2 POLE, 600V, 30A TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE	HUBBELL BRYANT 30102D
S_{3P}	3 POLE 600V, 30A TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE	HUBBELL BRYANT 30103D
S_{2P} WP	2 POLE600V, 30A, NEMA 3R TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE; WEATHERPROOF	HUBBELL BRYANT 30322D
S_{3P} WP	3 POLE 600V, 30A; NEMA 3R TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE; WEATHERPROOF	HUBBELL BRYANT 30323D
DESIGNATION	**DESCRIPTION**	**SPECIFICATION**
XX	"XX" INDICATES TYPE OF EQUIPMENT TO BE POWERED. EQUIPMENT TYPES: DDC = HVAC CONTROL PANEL, DDC ACP = ACCESS CONTROL PANEL AV = AUDIO VISUAL EQUIPMENT POWER	REFER TO SPECIFICATIONS

POWER DEVICE NOTES

1. FOR TOGGLE SWITCH USED AS EQUIPMENT DISCONNECT, ELECTRICAL PLANS INDICATING DEVICES MOUNTED TO EQUIPMENT IS DIAGRAMMATIC ONLY AND THE FINAL LOCATION OF DEVICES SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR. COORDINATE DEVICE MOUNTED TO EQUIPMENT SPECIFIED AND PROVIDED UNDER OTHER SECTIONS WITH INSTALLING CONTRACTOR AND THE SPECIFYING ENGINEER.

LIGHTING FIXTURES

SYMBOL	DESCRIPTION	SPECIFICATION
	CEILING MOUNTED FIXTURE; DRAWN TO SCALE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	CEILING MOUNTED FIXTURE; MIDDLE LINE INDICATES LENS DIRECTION; DRAWN TO SCALE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	WALL MOUNTED FIXTURE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	CEILING MOUNTED FIXTURE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	EXIT SIGN; WALL MOUNTED; SHADED REGION INDICATES ILLUMINATED FACE; ARROW INDICATES DIRECTIONAL ARROW	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	EXIT SIGN; CEILING MOUNTED; SHADED REGION INDICATES ILLUMINATED FACE; ARROW INDICATES DIRECTIONAL ARROW	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	COMBINATION EXIT SIGN EMERGENCY LIGHTING UNIT; MOUNTING AS INDICATED	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	EMERGENCY LIGHTING UNIT	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	CEILING FAN	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	DUAL HEAD POLE LIGHT	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
DESIGNATION	**DESCRIPTION**	**SPECIFICATION**
a DL	"DL" REPRESENTS FIXTURE IDENTIFIER. LOWERCASE LETTER "a" INDICATES SWITCHING ZONE.	REFER TO LIGHTING FIXTURE SCHEDULE. REFER TO LIGHTING CONTROLS MATRIX / SEQUENCE OF OPERATIONS.
	SHADED CENTER OF FIXTURE REPRESENTS FIXTURE FOR EMERGENCY EGRESS LIGHTING.	REFER TO LIGHTING FIXTURE SCHEDULE. REFER TO LIGHTING CONTROL DETAILS.

LIGHTING FIXTURE NOTES

1. LIGHTING FIXTURE SYMBOLS REPRESENT THE GENERAL SIZE AND SHAPE OF THE FIXTURE, BUT ARE NOT MEANT TO BE TO-SCALE REPRESENTATIONS UNLESS NOTED OTHERWISE. THE SYMBOLS LISTED IN THE ABOVE LEGEND ARE TYPICAL BUT MAY NOT REPRESENT ALL SYMBOLS SHOWN ON THE PLANS.
2. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.
3. LOCATION OF LIGHTING FIXTURES IN MECHANICAL EQUIPMENT ROOM SHALL BE COORDINATED WITH THE FINAL MECHANICAL EQUIPMENT LOCATION INCLUDING AC EQUIPMENT, PUMPS, DUCTWORK, PIPE, ETC. TO PROVIDE NEC REQUIRED ACCESS SPACE AND PROPER ILLUMINATION.
4. ALL EXIT SIGNS AND FIXTURES WITH INTEGRAL BATTERY BACKUP SHALL BE CONNECTED TO THE LIGHT CIRCUIT AHEAD OF LOCAL SWITCH CONTROL.

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	SPECIFICATION
LCP	LIGHTING CONTROL PANEL	REFER TO SPECIFICATIONS. SEE DETAILS
LNC	LIGHTING CONTROL NETWORK CONTROLLER	REFER TO SPECIFICATIONS. SEE DETAILS.
RC	LIGHTING CONTROLS ROOM CONTROLLER. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS.
EM	LIGHTING CONTROLS UL924 EMERGENCY RELAY. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS.
RP	RECEPTACLE "PLUG" LOAD CONTROLLER. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS.
BR	LIGHTING CONTROLS NETWORK BRIDGE. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS.
V	LIGHTING CONTROLS MOTION SENSOR; CEILING MOUNTED; PROGRAMMED FOR VACANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
O	LIGHTING CONTROLS MOTION SENSOR; CEILING MOUNTED; PROGRAMMED FOR OCCUPANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
V	LIGHTING CONTROLS MOTION SENSOR; WALL MOUNTED; PROGRAMMED FOR VACANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
M	LIGHTING CONTROLS MOTION SENSOR; WALL MOUNTED; PROGRAMMED FOR OCCUPANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
D	LIGHTING CONTROLS DAYLIGHT PHOTO SENSOR; CEILING MOUNT	REFER TO SPECIFICATIONS. SEE DETAILS.
P	PHOTO SENSOR; WALL MOUNT TO ON NORTH FACE OF BUILDING EXTERIOR	REFER TO SPECIFICATIONS. SEE DETAILS.
S_{LX}	LOW VOLTAGE SWITCH. "X" INDICATES BUTTON COUNT.	REFER TO SPECIFICATIONS. SEE DETAILS.
S_{M}	WALL SWITCH WITH MOTION SENSOR; PROGRAM FOR OCCUPANCY SENSING.	WATTSTOPPER #DWS-301-W
S_{V}	WALL SWITCH WITH MOTION SENSOR; PROGRAM FOR VACANCY SENSING.	WATTSTOPPER #DWS-301-W
D	DIMMER SWITCH; 120V; 0-10V	COORDINATE WITH FIXTURE DIMMING TYPE.
S	SINGLE POLE TOGGLE SWITCH	HUBBELL SERIES HBL1221
S_3	3-WAY TOGGLE SWICH	HUBBELL SERIES HBL1223
S_4	4-WAY TOGGLE SWITCH	HUBBELL SERIES HBL1224
S_{EP}	SINGLE POLE SWITCH; EXPLOSION PROOF	APPLETON SERIES EDS
S_{P}	SINGLE POLE SWITCH; PILOT LIGHT; LIGHT 'ON' WHEN SWITCH IS CLOSED	HUBBELL SERIES HBL1221PLC
DESIGNATION	**DESCRIPTION**	**SPECIFICATION**
S_{WP}	"WP" INDICATES DEVICE IN WEATHER PROOF COVER.	REFER TO SPECIFICATIONS

LIGHTING CONTROL NOTES

1. REFER TO LIGHTING CONTROL MATRIX / SEQUENCE OF OPERATIONS TABLE FOR PROGRAMMING OF LIGHTING CONTROLS.
2. REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL WIRING OF CONTROLS, LOW VOLTAGE NETWORKING OF CONTROLS, AND BASIS OF DESIGN EQUIPMENT SPECIFICATIONS.
3. ALL LIGHTING CONTROL SWITCHES SHALL BE MOUNTED 48" AFF TO C/L UNLESS NOTED OTHERWISE.
4. FOR ALL DEVICES INDICATED AS WEATHERPROOF PROVIDE THE EQUIVALENT WEATHERPROOF DEVICE TYPE AND WEATHERPROOF COVER.

RACEWAYS AND CONDUCTORS

SYMBOL	DESCRIPTION
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP/DOWN
	CONDUIT CAP
	RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING
	RACEWAY INSTALLED EXPOSED
	RACEWAY INSTALLED IN SLAB / BELOW GRADE / UNDER FLOOR
	EMERGENCY / LIFE SAFETY POWER CIRCUIT
	LOW VOLTAGE CONDUCTOR
P-1,3,5	HOMERUN ARROW WITH CIRCUIT TAG. CIRCUIT TAG INDICATES PANEL-SPACE,SPACE,SPACE. TAG SHOWN INDICATES PANEL "P" WITH 3 POLE CIRCUIT TO SPACES 1, 3, AND 5
	WIRE COUNT TICK MARKS. EACH TICK MARK INDICATES ONE CONDUCTOR IN RACEWAY. TICK MARK WITH DOT REPRESENTS EQUIPMENT GROUND. NO TICK MARK INDICATES 2 CONDUCTORS PLUS EQUIPMENT GROUND.
	ANNOTATIVE BREAK IN WIRE INDICATES CIRCUIT CONTINUES BEYOND WHAT IS SHOWN
	FLEXIBLE CONDUIT CONNECTION

(_)_#_ & _#_ - _"C

- TOTAL NUMBER OF RUNS. SEE NOTE 1.
- TOTAL NUMBER OF CONDUCTORS PER RUN
- SIZE OF CONDUCTORS AWG OR KCMIL
- TRADE SIZE OF CONDUIT
- SIZE OF GROUNDING CONDUCTOR
- NUMBER GROUNDING CONDUCTORS. SHOULD ALWAYS BE 1.

NOTES
1. ONLY INDICATED IF MORE THAN ONE.
2. SEE FEEDER SCHEDULE
3. NO WIRE SIZE NOTED INDICATES 2#12 & 1#12 - 3/4"C.

EXAMPLE
2#10 & 1#10 - 3/4"C
- ONE RUN OF 3/4" CONDUIT CONTAINING TWO #10AWG AND ONE #10AWG GROUNDING CONDUCTOR.

(2)4#3/0 & 1#3 - 2"C
- TWO RUNS OF 2" CONDUIT WITH EACH CONDUIT CONTAINING FOUR #3/0AWG AND ONE #3/0AWG GROUNDING WIRE.

WIRING NOTES

1. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
2. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
3. FINAL CONNECTION TO ALL DRY TYPE TRANSFORMERS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
4. PROVIDE BUSHINGS ON ALL CONDUIT.
5. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
6. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL,"T" FOR TELEPHONE,"V" FOR TV CABLE,"F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.
7. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, #6 AND SMALLER TO BE TYPE THWN, 600 VOLT INSULATION AND TYPE THWN OR THHN FOR #4 AND LARGER. ALUM. CONDUCTORS MAY BE USED FOR 100A. AND LARGER ONLY WHERE USED WITH COMPRESSION TERMINATIONS.
8. ALL WORK SHALL BE INSTALLED IN CONCEALED TYPE CONSTRUCTION. UNDERGROUND CONDUITS UP TO FIRST BOX IN CONCEALED CONSTRUCTION MAY BE SCH.40 PVC. EXTERIOR EXPOSED WORK SHALL BE I.M.C. BRANCH CIRCUIT CONDUIT RUN IN OPEN SPACES ABOVE CEILING OR IN WALLS MAY BE THINWALL (E.M.T.) CONDUIT 1/2" MIN. SIZE.

FIRE ALARM

SYMBOL	DESCRIPTION	SPECIFICATION
FACP	FIRE ALARM CONTROL PANEL / REMOTE ANNUNCIATOR PANEL AS INDICATED; SURFACE MOUNT.	REFER TO SPECIFICATIONS.
FACP	FIRE ALARM CONTROL PANEL / REMOTE ANNUNCIATOR PANEL AS INDICATED; RECESSED MOUNT.	REFER TO SPECIFICATIONS.
F	MANUAL PULL STATION.	REFER TO SPECIFICATIONS.
	WALL MOUNT SIGNAL SPEAKER/STROBE.	REFER TO SPECIFICATIONS.
	WALL MOUNT SIGNAL HORN/STROBE.	REFER TO SPECIFICATIONS.
	WALL MOUNT SIGNAL STROBE.	REFER TO SPECIFICATIONS.
	CEILING MOUNT SIGNAL SPEAKER/STROBE.	REFER TO SPECIFICATIONS.
	CEILING MOUNT SIGNAL HORN/STROBE.	REFER TO SPECIFICATIONS.
	CEILING MOUNT SIGNAL STROBE.	REFER TO SPECIFICATIONS.
H	CEILING MOUNT AUTOMATIC HEAT DETECTOR; 135 DEGREE RATE OF RISE.	REFER TO SPECIFICATIONS.
C	CEILING MOUNT CARBON MONOXIDE (CO) DETECTOR;	REFER TO SPECIFICATIONS.
	CEILING MOUNT AUTOMATIC SMOKE DETECTOR;	REFER TO SPECIFICATIONS.
	AUTOMATIC AIR DUCT SMOKE DETECTOR; MOUNTING COORDINATED WITH MECHANICAL.	REFER TO SPECIFICATIONS.
	REMOTE INDICATOR LIGHT FOR AIR DUCT SMOKE DETECTOR.	REFER TO SPECIFICATIONS.
H	FIRE ALARM CONNECTION TO MAGNETIC DOOR HOLDER.	REFER TO SPECIFICATIONS.
R	NORMALLY CLOSED RELAY IN HVAC CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT; CONTACTS RATED 5A, 120V.	REFER TO SPECIFICATIONS.
	FIRE ALARM SYSTEM MINI-SOUNDER WITH FLASHING STROBE.	REFER TO SPECIFICATIONS.
	FIRE ALARM SYSTEM MINI-SOUNDER.	REFER TO SPECIFICATIONS.
WP	FIRE ALARM SYSTEM EXTERIOR, WEATHERPROOF SIGNAL SPEAKER.	REFER TO SPECIFICATIONS.
H	FIRE DEPARTMENT COMMUNICATIONS SYSTEM REMOTE STATION.	REFER TO SPECIFICATIONS.
	FIRE SPRINKLER FLOW/TAMPER SWITCH.	REFER TO SPECIFICATIONS.
SD	FIRE ALARM CONNECTION TO SMOKE DAMPER.	REFER TO SPECIFICATIONS.
FSD	FIRE ALARM CONNECTION TO FIRE/SMOKE DAMPER.	REFER TO SPECIFICATIONS.
SV	FIRE ALARM CONNECTION TO SOLENOID VALVE.	REFER TO SPECIFICATIONS.
H	SELF-CONTAINED HEARING IMPAIRED RESIDENTIAL SMOKE ALARM 120V; BATTERY BACK-UP; PUSH-TO-TEST BUTTON & PILOT LIGHT; TANDEM TYPE (ONE ALARMS-ALL ALARM); SYNCHRONIZED FLASHER;	REFER TO SPECIFICATIONS.
C	SELF-CONTAINED RESIDENTIAL SMOKE/CARBON MONOXIDE ALARM 120V; WITH BATTERY BACK-UP; PUSH-TO-TEST BUTTON & PILOT LIGHT; TANDEM TYPE (ONE ALARMS-ALL ALARM)	REFER TO SPECIFICATIONS.
	SELF-CONTAINED RESIDENTIAL SMOKE ALARM 120V. WITH BATTERY BACK-UP; PUSH-TO-TEST BUTTON & PILOT LIGHT; TANDEM TYPE (ONE ALARMS-ALL ALARM);	REFER TO SPECIFICATIONS.
DESIGNATION	**DESCRIPTION**	**SPECIFICATION**
WP	'WP' INDICATES DEVICE LISTED AND RATED FOR EXTERIOR LOCATION (WEATHER PROOF).	REFER TO SPECIFICATIONS.
110	FOR SIGNAL STROBE DEVICES 110 INDICATES 110 CANDELA RATING; NO INDICATION 75 CANDELA.	REFER TO SPECIFICATIONS.

FIRE ALARM NOTES

1. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48" AFF TO C/L; ALL WALL MOUNTED SIGNAL DEVICES SHALL BE LOCATED 80" AFF TO BOTTOM OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.
2. FOR SIGNAL DEVICES, STROBE CANDELA AND AUDIO SIGNAL SHALL BE SELECTABLE ON THE BACK OF THE DEVICE.
3. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.

GROUNDING

SYMBOL	DESCRIPTION	SPECIFICATION
	GROUND ROD	REFER TO SPECIFICATIONS. SEE DETAILS.
	GROUND ROD TEST WELL	REFER TO SPECIFICATIONS. SEE DETAILS.
	GROUNDING BUSSBAR	REFER TO SPECIFICATIONS. SEE DETAILS.
	3-WAY TAP EXOTHERMIC WELD SPLICE	REFER TO SPECIFICATIONS. SEE DETAILS.
	4-WAY TAP EXOTHERMIC WELD SPLICE	REFER TO SPECIFICATIONS. SEE DETAILS.
	BONDING CONNECTION	REFER TO SPECIFICATIONS. SEE DETAILS.

REFERENCE DESIGNATIONS

SYMBOL	DESCRIPTION
?	KEYNOTE REFERENCE
?	FEEDER NOTE REFERENCE
?	REVISION REFERENCE
	REVISION CLOUD MARKS REVISED PORTION OF DRAWING.
VIEW NUMBER/IDENTIFICATION; VIEW REFERENCE; SHEET DRAWN ON	
VIEW LETTER/IDENTIFICATION; INTERIOR ELEVATION REFERENCE; SHEET DRAWN ON	
VIEW NUMBER/IDENTIFICATION; EXTERIOR ELEVATION REFERENCE; SHEET DRAWN ON	
VIEW NUMBER/IDENTIFICATION; SECTION REFERENCE; SHEET DRAWN ON	

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NURSE CALL LEGEND

SYMBOL	DESCRIPTION	SPECIFICATION
GW #	NURSE CALL GATEWAY - SURFACE WALL MOUNT/MAY SHARE EQUIPMENT CABINET WITH ANOTHER GATEWAY IF APPLICABLE. REQUIRES POWER SUPPLY AND MAY CONTAIN NETWORK SWITCH. SEE RISER DIAGRAM FOR DETAILS. EQUAL TO JERON #7993-7995A-7991-9777-9776 DENOTES EQUIP. CABINET NUMBER	
NCMS	NURSE CALL MASTER STATION - DESK TOP MOUNTEDEQUAL TO JERON #7965	
D	ROOM CONTROLLER W/ PRISM CORRIDOR LIGHT - WALL MOUNTED 4" ABOVE DOOR - EQUAL TO JERON # 7953-9779	
C	CONSOLE CONTROLLER - WALL OR CEILING MOUNTED - EQUAL TO JERON #7960-9779	
Z	PRISM CORRIDOR ZONE LIGHT - CEILING SURFACE MOUNTED IN SHOWN CORR. LOCATION - EQUAL TO JERON #793-9779	
SP	SINGLE PATIENT NURSE CALL STATION - 46" MOUNTING HEIGHT TO CENTER LINE - EQUAL TO JERON #7920	
SP E	ENHANCED SINGLE PATIENT NURSE CALL STATION - 46" MOUNTING HEIGHT TO CENTER LINE - EQUAL TO JERON #7923	
CB	CODE BLUE PUSH BUTTON STATION- 46" MOUNTING HEIGHT TO CENTER LINE - EQUAL TO JERON #7949	
D	NURSE CALL STAFF/DUTY STATION - 46" MOUNTING HEIGHT TO CENTER LINE - EQUAL TO JERON #7927	

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.6723
FL. Authorization No.00006680
Christopher A. Garick; FL PE 53924
Thomas A. Alexander; FL PE 73172
Daniel J. White; FL PE 73790
Caleb W. Leonard; FL PE 91782
Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	25004
Dated	08.29.2025

ELECTRICAL LEGENDS AND NOTES

E-001

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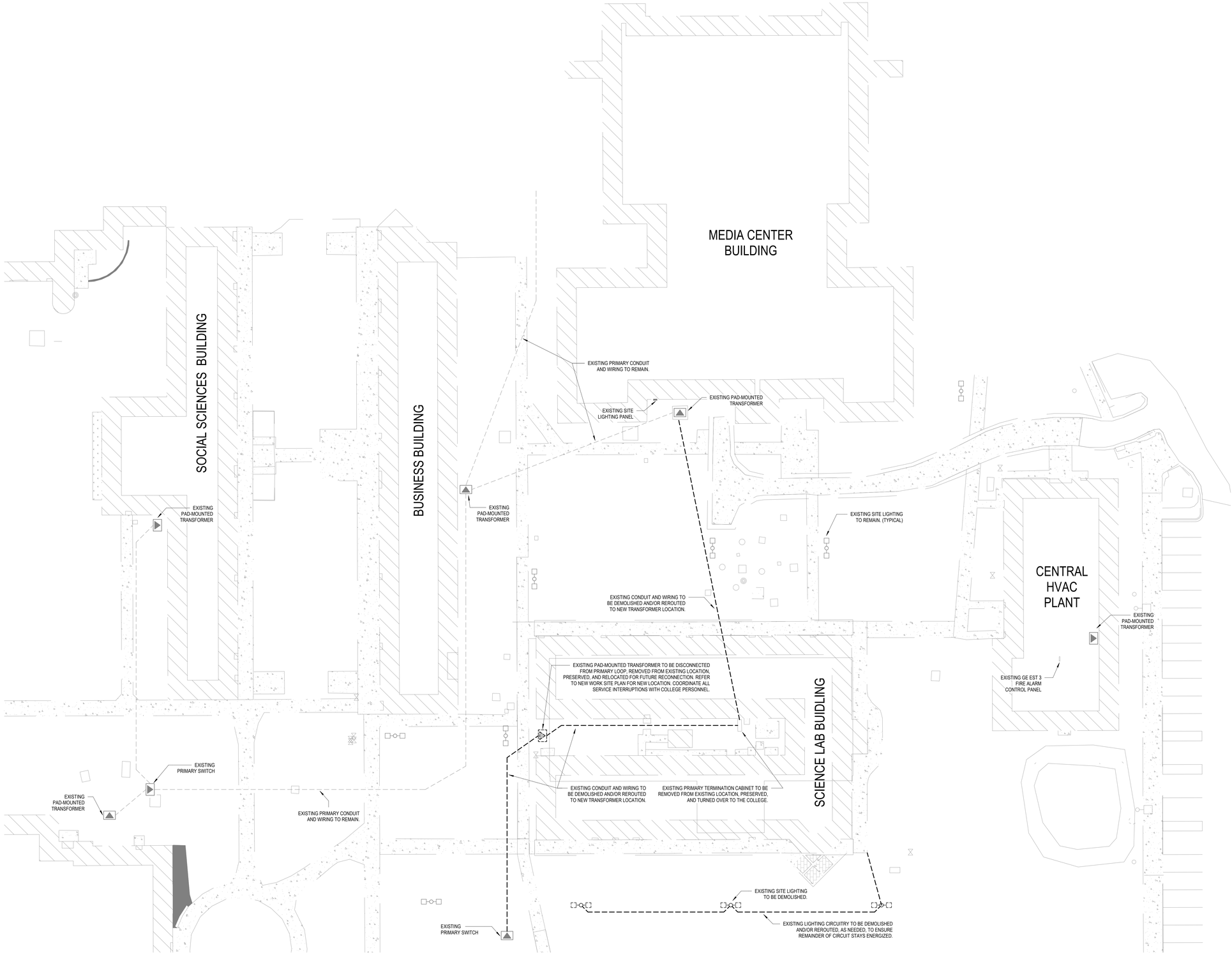

LEVEL 1 - SITE PLAN - DEMOLITION

1" = 20'-0"

0 10' 20'

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garick, FL PE 53924
Thomas A. Alexander, FL PE 73172
Jeffrey S. Hall, FL PE 97101
Caleb W. Leonard, FL PE 81192

Job No. 24113

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LEVEL 1 SITE PLAN - DEMOLITION

E-101

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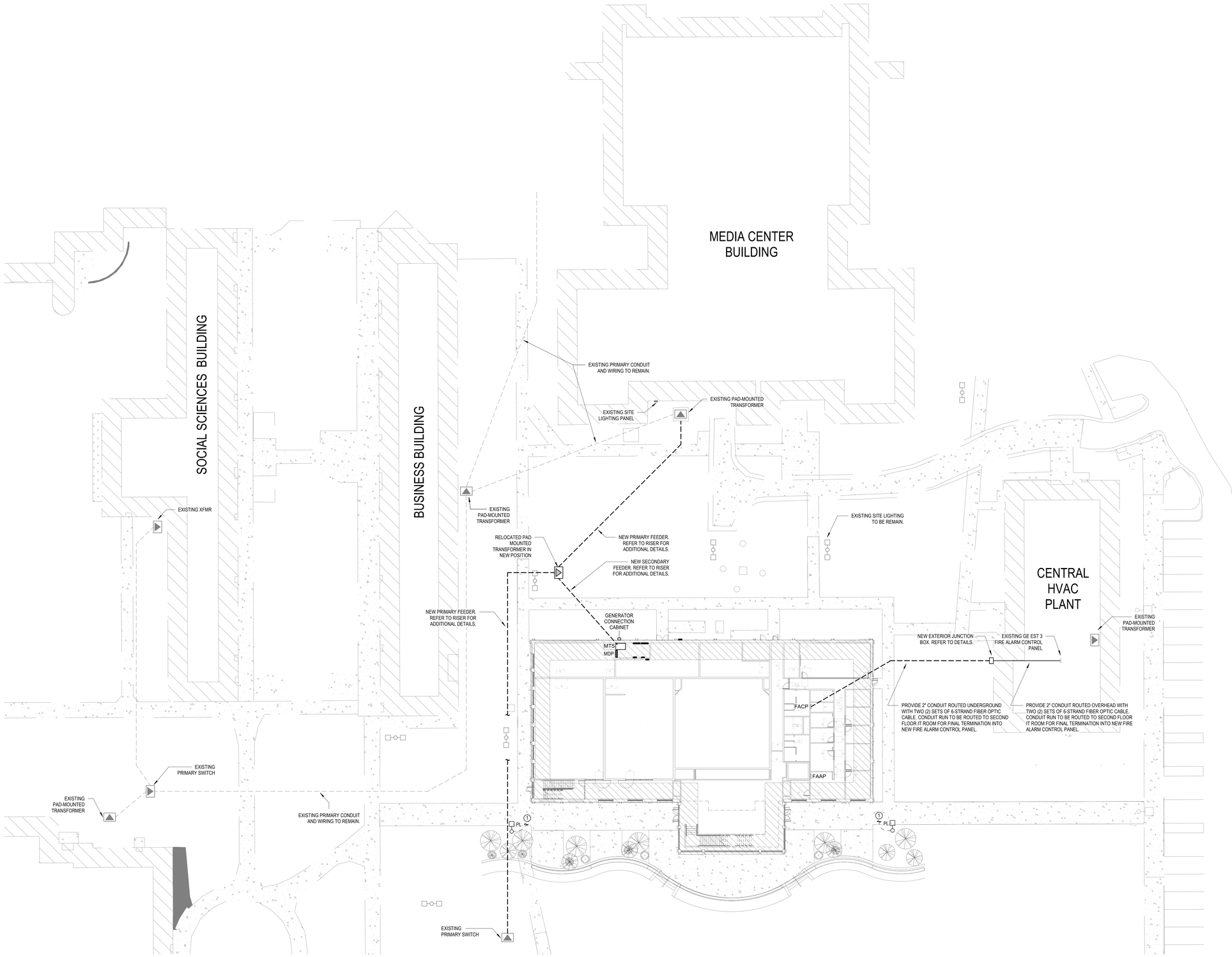
KEYNOTES

1	SITE POLE LIGHTING CIRCUIT TO RECEIVE POWER AND CONTROL FROM EXTERIOR BUILDING LIGHTING.



LEVEL 1 - SITE PLAN - NEW WORK

1" = 20'-0"

0 10' 20'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

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AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garick, FL PE 53924
Thomas A. Alexander, FL PE 73172
Jeffrey S. Hall, FL PE 97101
Caleb W. Leonard, FL PE 81182
Job No. 24113

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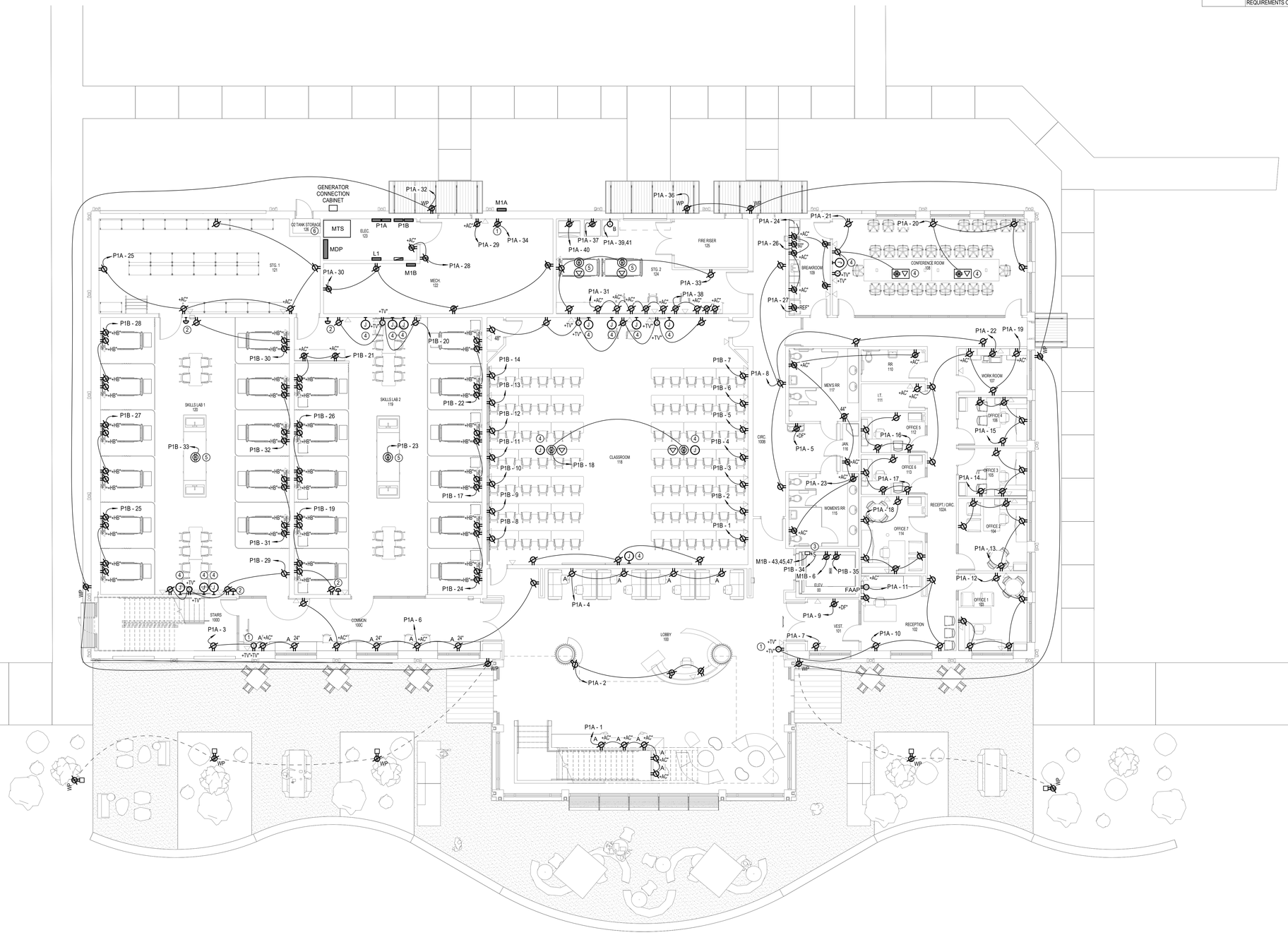
LEVEL 1 SITE PLAN - NEW WORK

E-102



KEYNOTES

1	RECEPTACLE FOR EBS NOTIFICATION SYSTEM, COORDINATE LOCATION AND MOUNTING HEIGHT WITH CONTRACTOR.
2	PROVIDE RED EMERGENCY STOP PUSH BUTTON FOR DEACTIVATION OF ALL NON-LIGHTING LOADS WITHIN LAB SPACE. LOCATE CONTACTOR ABOVE CEILING FOR ALL CIRCUITS WITHIN THE RESPECTIVE ROOM.
3	ELEVATOR CAB LIGHT AND CONTROLS CAPABLE OF BEING LOCKED IN THE OFF POSITION.
4	PROVIDE JUNCTION BOX, CONDUIT, AND/OR 120VAC CONNECTION FOR AV EQUIPMENT. SEE AV PLANS FOR MOUNTING HEIGHT, EQUIPMENT LOCATION, AND POWER REQUIREMENTS.
5	PROVIDE CORD REELS WITHIN THIS SPACE. ALL SHALL BE PROVIDED WITH A MINIMUM LENGTH OF 25' AND NO SMALLER THAN #12 AWG COPPER WITH ONE (1) DUPLEX RECEPTACLE. CORD REELS SHALL BE CEILING-MOUNTED AND SUPPORTED FROM STRUCTURE BASED ON MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
6	PROVIDE CLASS 1, DIVISION 2 INSTALLATION IN THIS SPACE, INCLUDING ALL NECESSARY EXPLOSION-RESISTANT ENCLOSURE(S), DEVICE(S), SEAL-OFF(S), AND ANY OTHER REQUIREMENTS OF NEC CHAPTER 5.

LEVEL 1 - POWER PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
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FL. Authorization No.00006680
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Caleb W. Leonard, FL PE 91740
Job No. 24113

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LEVEL 1 POWER PLAN

E-111

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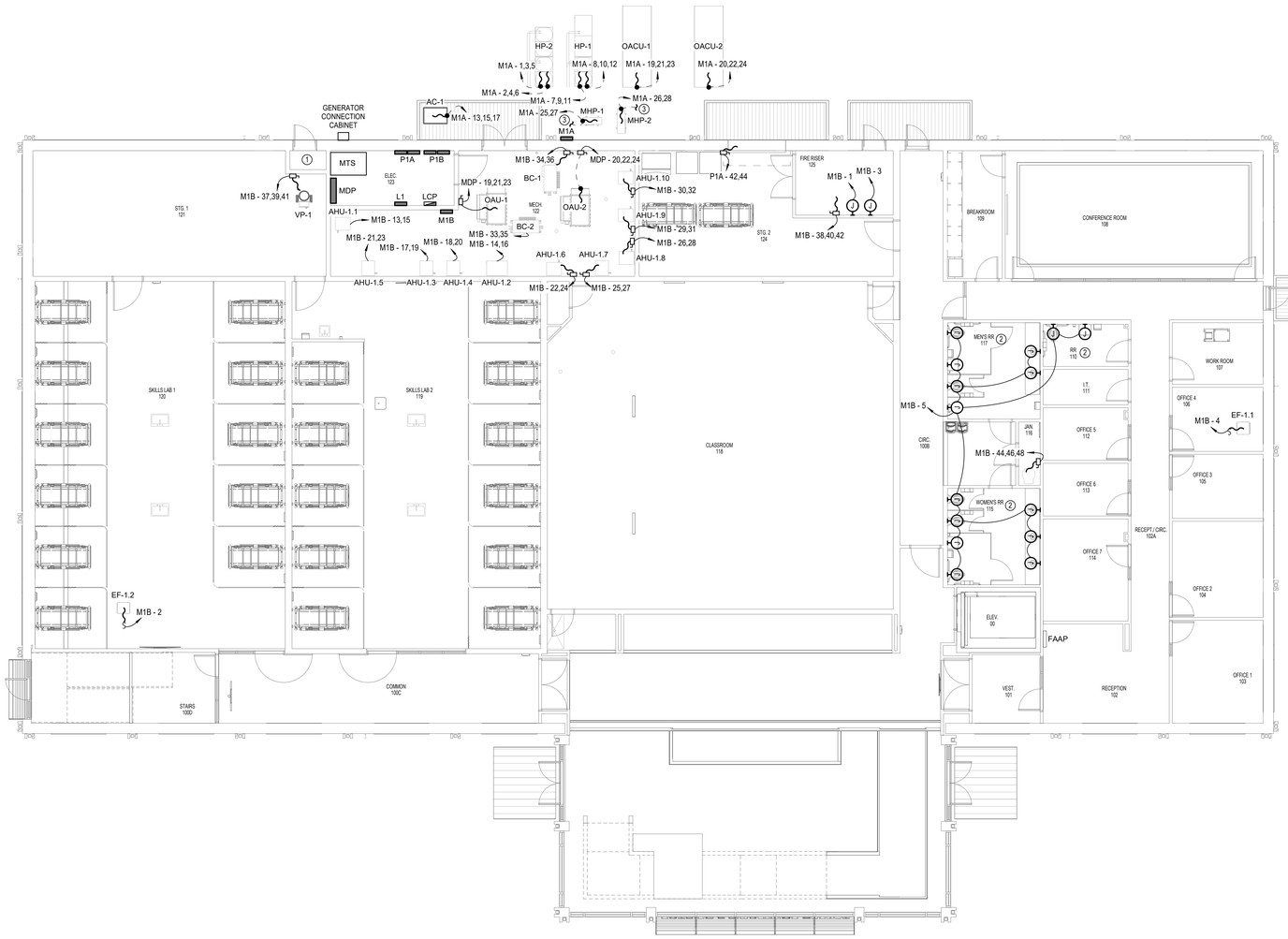

LEVEL 1 - MECH POWER PLAN

1/8" = 1'-0"

0 4' 8' 16'

KEYNOTES

1	PROVIDE CLASS 1, DIVISION 2 INSTALLATION IN THIS SPACE, INCLUDING ALL NECESSARY EXPLOSION-RESISTANT ENCLOSURE(S), DEVICE(S), SEAL-OFF(S), AND ANY OTHER REQUIREMENTS OF NEC CHAPTER 5.
2	PROVIDE JUNCTION BOX AND 120VAC CONNECTION FOR AC/DC TRANSFORMER, CAPABLE OF POWERING A MAXIMUM OF EIGHT (8) AUTOMATED FIXTURES. PLUMBING CONTRACTOR TO PROVIDE ONE (1) TRANSFORMER PER RESTROOM. PROVIDE JUNCTION BOX, CONDUIT, AND WIRE FROM THE TRANSFORMER TO EVERY AUTOMATED FIXTURE WITHIN THIS SPACE. COORDINATE LOCATION OF TRANSFORMER WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
3	OUTDOOR UNIT TO SUPPLY POWER TO INDOOR UNIT ON SECOND FLOOR.

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher D. Hall, FL PE 97100
Caleb W. Leonard, FL PE 91740
Job No. 24113

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LEVEL 1 MECH POWER PLAN

E-112

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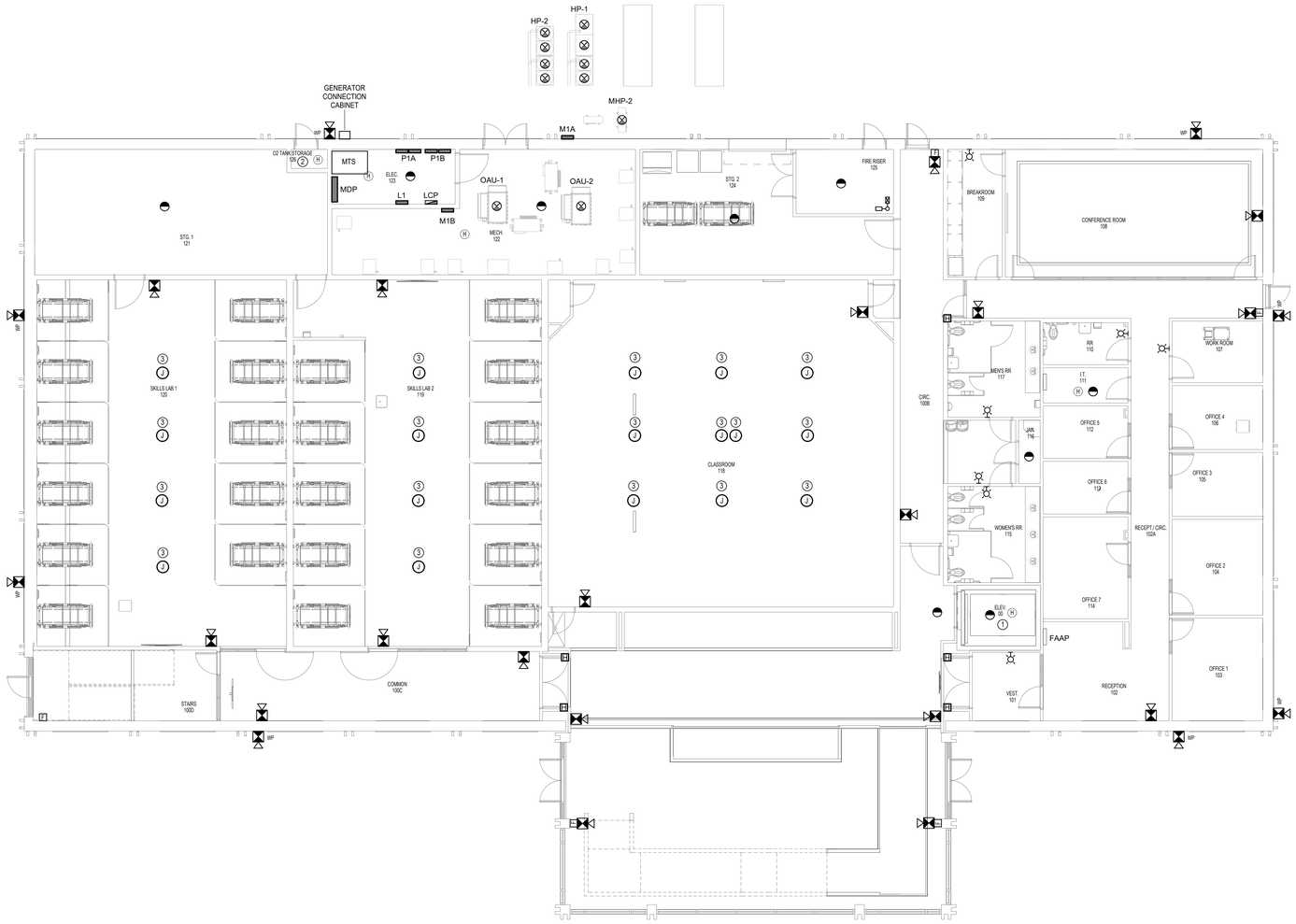

LEVEL 1 - MISC SYSTEMS PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

KEYNOTES

1	PROVIDE HEAT DETECTOR AT BOTTOM OF SHAFT AND SMOKE AND HEAT DETECTOR AT TOP OF SHAFT WITH ADDITIONAL NORMALLY CLOSED CONTACTS.
2	PROVIDE CLASS 1, DIVISION 2 INSTALLATION IN THIS SPACE, INCLUDING ALL NECESSARY EXPLOSION-RESISTANT ENCLOSURE(S), DEVICE(S), SEAL-OFF(S), AND ANY OTHER REQUIREMENTS OF NEC CHAPTER 5.
3	PROVIDE JUNCTION BOX, CONDUIT, AND/OR 120VAC CONNECTION FOR AV EQUIPMENT. SEE AV PLANS FOR MOUNTING HEIGHT, EQUIPMENT LOCATION, AND POWER REQUIREMENTS.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
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Caleb W. Leonard, FL PE 91782
Job No. 24113

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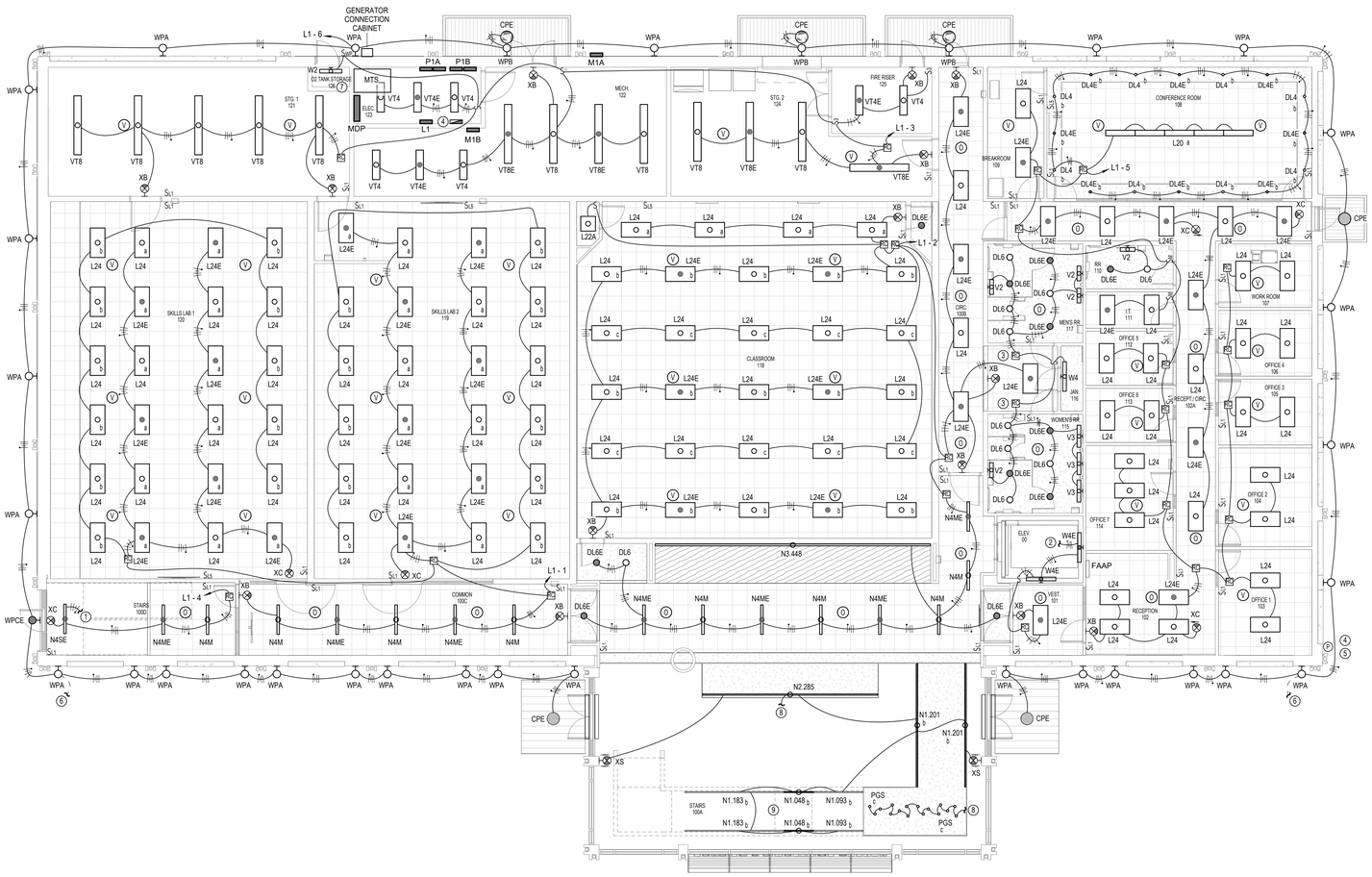
LEVEL 1 MISC SYSTEMS PLAN

E-113



LEVEL 1 - LIGHTING PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

KEYNOTES

1	CONTINUE STAIRWELL LIGHTING CIRCUIT TO SECOND FLOOR.
2	CONTINUE ELEVATOR LIGHTING CIRCUIT TO SECOND FLOOR.
3	ENSURE TO MOUNT ALL ROOM CONTROLLERS IN AN ACESSIBLE ABOVE-CEILING SPACE. IF ROOM CONTAINS A GYPSUM CEILING OR CONTAINS SOME OTHER OBSTRUCTION, INSTALLATION IN AN ADJACENT ACCESSIBLE SPACE IS PREFERRED.
4	EXTERIOR BUILDING AND SITE LIGHTING TO BE CONTROLLED VIA PHOTOCELL AND ASTRONOMICAL TIMECLOCK. COORDINATE WITH OWNER TO PROGRAM ACTIVATION SCHEDULE.
5	MOUNT PHOTOCELL ON NORTHERN WALL AS HIGH AS POSSIBLE BELOW BUILDING EAVE.
6	CONTINUE EXTERIOR BUILDING LIGHTING CIRCUIT TO SITE POLE FIXTURES.
7	PROVIDE CLASS 1, DIVISION 2 INSTALLATION IN THIS SPACE, INCLUDING ALL NECESSARY EXPLOSION-RESISTANT ENCLOSURE(S), DEVICE(S), SEAL-OFF(S), AND ANY OTHER REQUIREMENTS OF NEC CHAPTER 5.
8	UNDER-STAIR LIGHTING CIRCUIT TO RECEIVE POWER AND CONTROL FROM SECOND FLOOR.
9	UNDER-STAIR LINEAR LIGHTING LENGTHS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER CAPABILITIES PRIOR TO PROCURMENT. DESIGN INTENT IS TO MAINTAIN A NEAR-CONTINUOUS SET OF LINEAR FIXTURES WHICH TRANSITION TO AND FROM SLOPED AND LEVEL PLANES BENEATH THE LOBBY STAIRCASE.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
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LEVEL 1
LIGHTING PLAN

E-114

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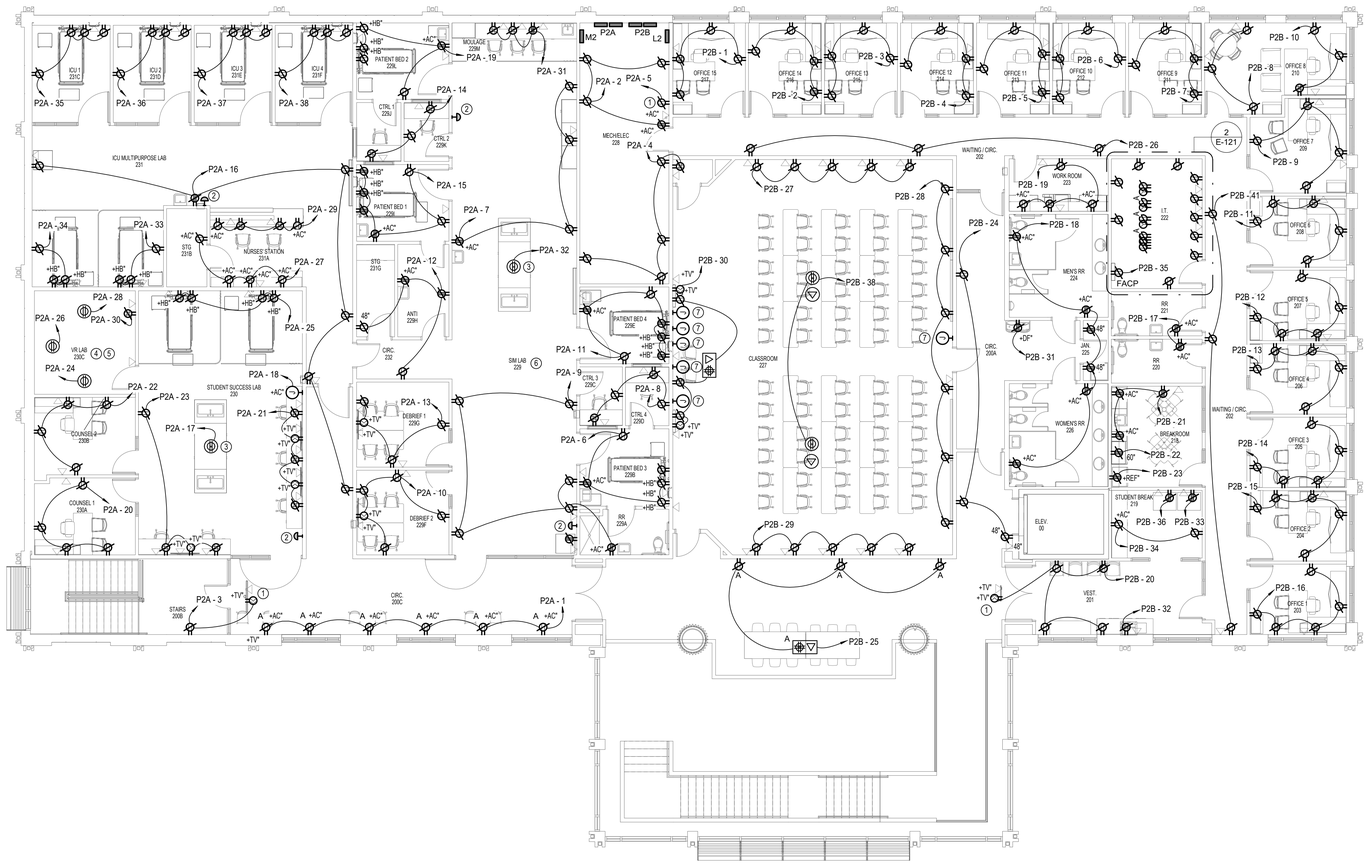
KEYNOTES

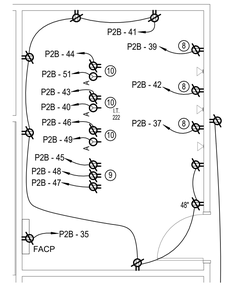
1	RECEPTACLE FOR EBS NOTIFICATION SYSTEM, COORDINATE LOCATION AND MOUNTING HEIGHT WITH CONTRACTOR.
2	PROVIDE RED EMERGENCY STOP PUSH BUTTON FOR DEACTIVATION OF ALL NON-LIGHTING LOADS WITHIN LAB SPACE. LOCATE CONTACTOR ABOVE CEILING FOR ALL CIRCUITS WITHIN THE RESPECTIVE ROOM.
3	PROVIDE CORD REELS WITHIN THIS SPACE. ALL SHALL BE PROVIDED WITH A MINIMUM LENGTH OF 25' AND NO SMALLER THAN #12 AWG COPPER WITH ONE (1) DUPLEX RECEPTACLE. CORD REELS SHALL BE CEILING-MOUNTED AND SUPPORTED FROM STRUCTURE BASED ON MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4	PROVIDE POWER TO THIRD PARTY VR LAB PROJECTORS. COORDINATE MOUNTING HEIGHTS AND LOCATIONS WITH THIRD-PARTY VENDOR TO ENSURE PROPER INSTALLATION.
5	PROVIDE THREE (3) 2" CONDUITS WITH PULLSTRING FROM THIRD PARTY VR LAB SERVER RACK TO ACCESSIBLE ABOVE-CEILING SPACE.
6	PROVIDE JUNCTION BOX AND CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING FOR EMS SYSTEM EQUIPMENT. SEE THIRD PARTY EMS DRAWINGS FOR ADDITIONAL DETAILS.
7	PROVIDE JUNCTION BOX, CONDUIT, AND/OR 120VAC CONNECTION FOR AV EQUIPMENT. SEE AV PLANS FOR MOUNTING HEIGHT, EQUIPMENT LOCATION, AND POWER REQUIREMENTS.
8	ACCESS CONTROL SYSTEM EQUIPMENT RACK. COORDINATE MOUNTING LOCATION AND SYSTEM REQUIREMENTS WITH SYSTEM INTEGRATOR PRIOR TO INSTALLATION.
9	EMERGENCY MANAGEMENT SYSTEM SERVER RACK. COORDIANTE MOUNTING LOCATION AND SYSTEM REQUIREMENTS WITH SYSTEM INTEGRATOR PRIOR TO INSTALLATION.
10	IT SERVER RACKS. COORDIANTE MOUNTING LOCATION AND SYSTEM REQUIREMENTS WITH SYSTEM INTEGRATOR PRIOR TO INSTALLATION.



LEVEL 2 - POWER PLAN

1/8" = 1'-0"

0 4' 8' 16'



ENLARGED IT ROOM PLAN

1/4" = 1'-0"

0 2 4 8

BID ALTERNATE 4:
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LEVEL 2 POWER PLAN

E-121

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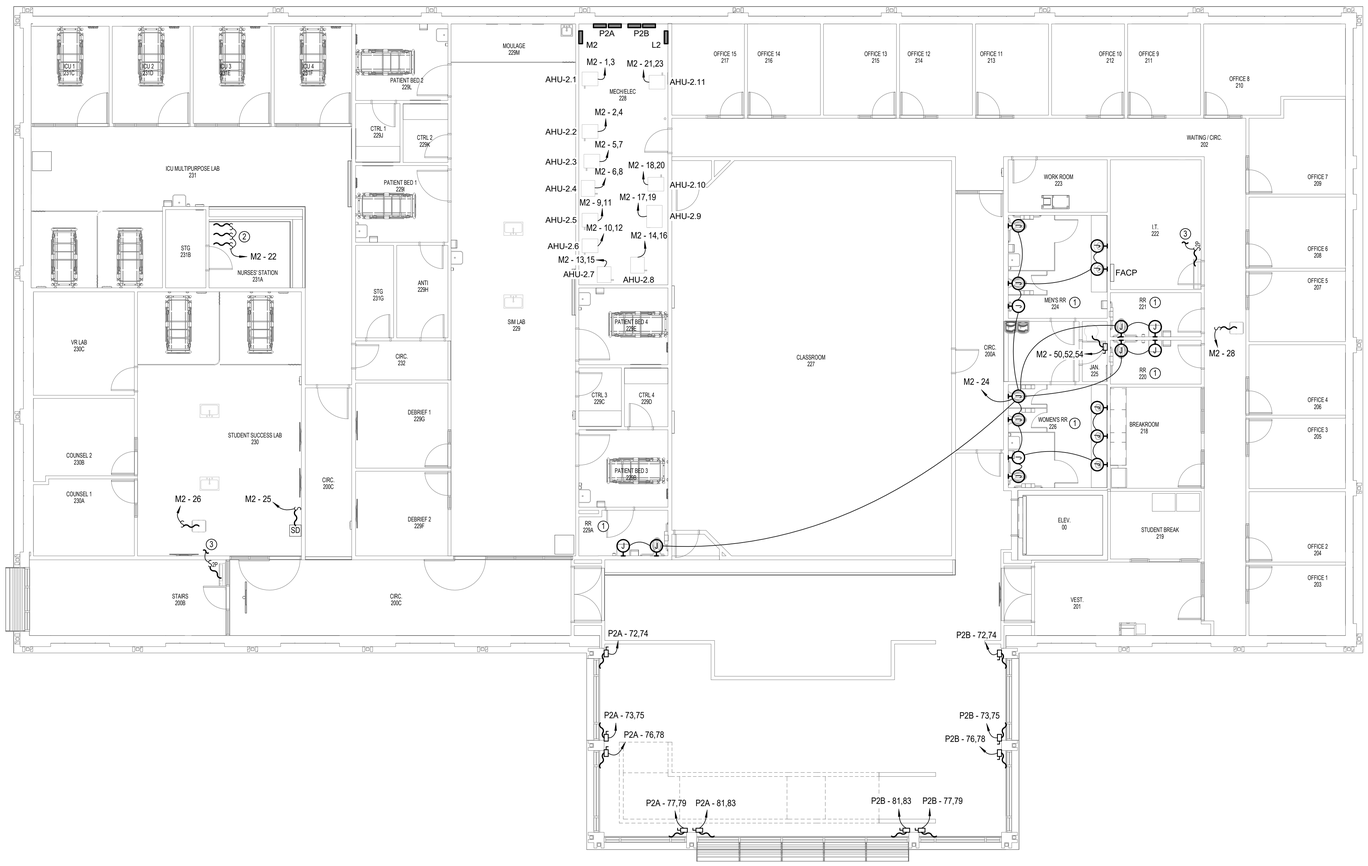
KEYNOTES

1	PROVIDE JUINCTION BOX AND 120VAC CONNECTION FOR AC/DC TRANSFORMER, CAPABLE OF POWERING A MAXIMUM OF EIGHT (8) AUTOMATED FIXTURES. PLUMBING CONTRACTOR TO PROVIDE ONE (1) TRANSFORMER PER RESTROOM. PROVIDE JUNCTION BOX, CONDUIT, AND WIRE FROM THE TRANSFORMER TO EVERY AUTOMATED FIXTURE WITHIN THIS SPACE. COORDINATE LOCATION OF TRANSFORMER WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
2	PROVIDE 120VAC POWER AND FIRE ALARM RELAY FOR MED GAS SOLENOID VALVES. VALVES SHALL BE TIED IN TO LOCAL EMERGENCY STOP BUTTON AND FIRE ALARM SYSTEM FOR DE-ENGERGIZATION UPON ACTIVATION OF EITHER SYSTEM.
3	INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT ON FIRST FLOOR.



LEVEL 2 - MECH POWER PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

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Project Number	**25004**
Dated	08.29.2025

LEVEL 2 MECH POWER PLAN

E-122

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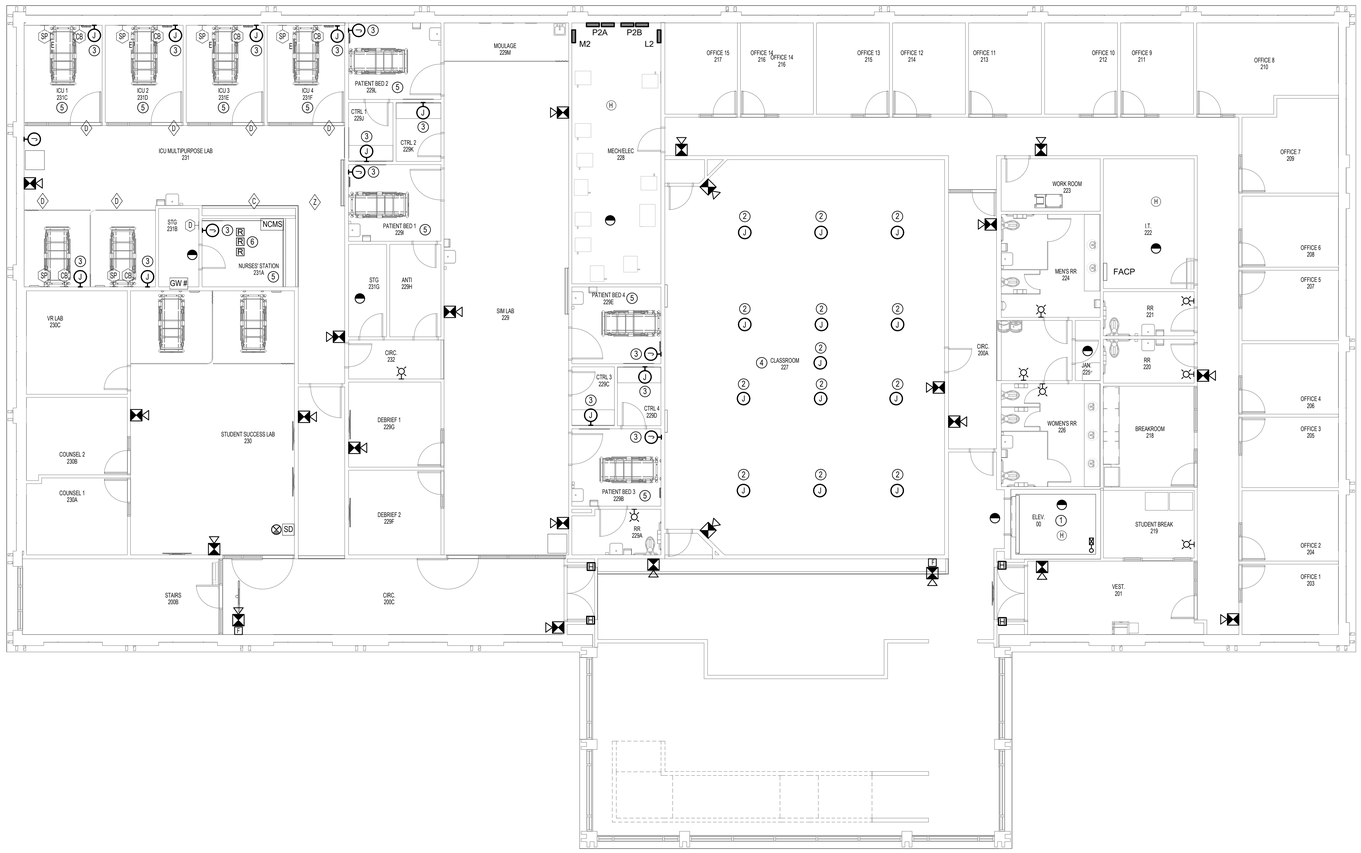
KEYNOTES

1	PROVIDE HEAT DETECTOR AT BOTTOM OF SHAFT AND SMOKE AND HEAT DETECTOR AT TOP OF SHAFT WITH ADDITIONAL NORMALLY CLOSED CONTACTS.
2	PROVIDE JUNCTION BOX, CONDUIT, AND/OR 120VAC CONNECTION FOR AV EQUIPMENT. SEE AV PLANS FOR MOUNTING HEIGHT, EQUIPMENT LOCATION, AND POWER REQUIREMENTS.
3	PROVIDE JUNCTION BOX AND CONDUIT WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING FOR EMS SYSTEM EQUIPMENT. SEE THIRD PARTY EMS DRAWINGS FOR ADDITIONAL DETAILS.
4	PROVIDE TWO (2) 3" CONDUITS SLEEVES THROUGH CORRIDOR SMOKE WALLS FOR EMS SYSTEM CABLING. SEE THIRD PARTY EMS DRAWINGS FOR ADDITIONAL DETAILS ON DESIRED LOCATION(S).
5	PROVIDE 1" AND/OR 2" CONDUIT SLEEVES BETWEEN CONTROL ROOMS, PATIENT BEDS, AND NURSE STATION WHERE SMOKE AND/OR FIRE WALLS ARE PRESENT. IF CABLING CAN BE FREE-AIRED ABOVE THE WALLS, NO SLEEVES SHALL BE REQUIRED. SEE THIRD PARTY EMS DRAWINGS FOR ADDITIONAL DETAILS ON DESIRED LOCATION(S) FOR RESPECTIVE SIZES.
6	PROVIDE 120VAC POWER AND FIRE ALARM RELAY FOR MED GAS SOLENOID VALVES. VALVES SHALL BE TIED IN TO LOCAL EMERGENCY STOP BUTTON AND FIRE ALARM SYSTEM FOR DE-ENGERGIZATION UPON ACTIVATION OF EITHER SYSTEM.



LEVEL 2 - MISC SYSTEMS PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher D. Hall, FL PE 91310
Caleb W. Leonard, FL PE 91740
Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

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LEVEL 2 MISC SYSTEMS PLAN

E-123

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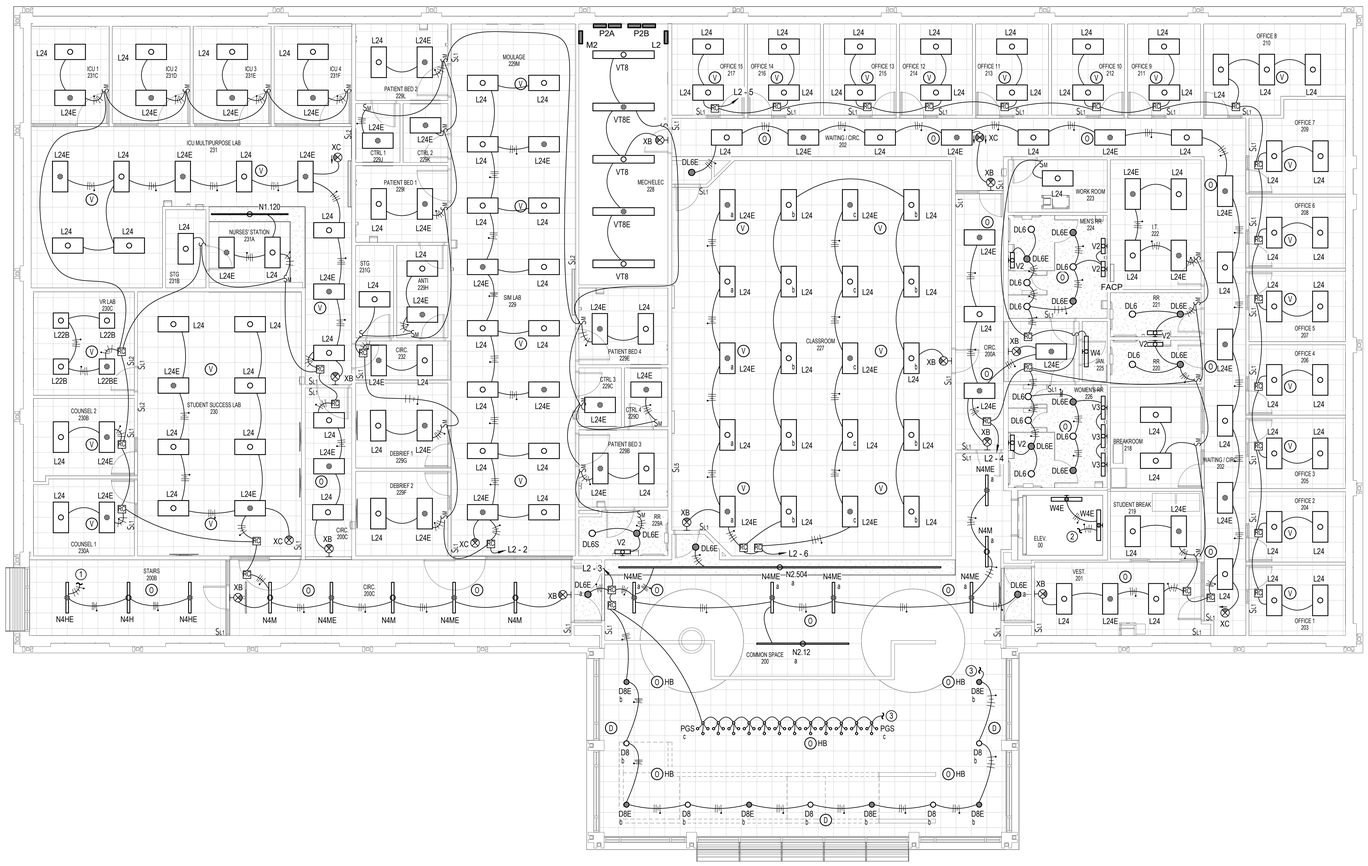
KEYNOTES

1	STAIRWELL LIGHTING CIRCUIT TO RECEIVE POWER FROM FIRST FLOOR.
2	ELEVATOR LIGHTING CIRCUIT TO RECEIVE POWER AND CONTROL FROM FIRST FLOOR.
3	CONTINUE LOBBY LIGHTING CIRCUIT TO FIRST FLOOR UNDER-STAIR LIGHTING.



LEVEL 2 - LIGHTING PLAN

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

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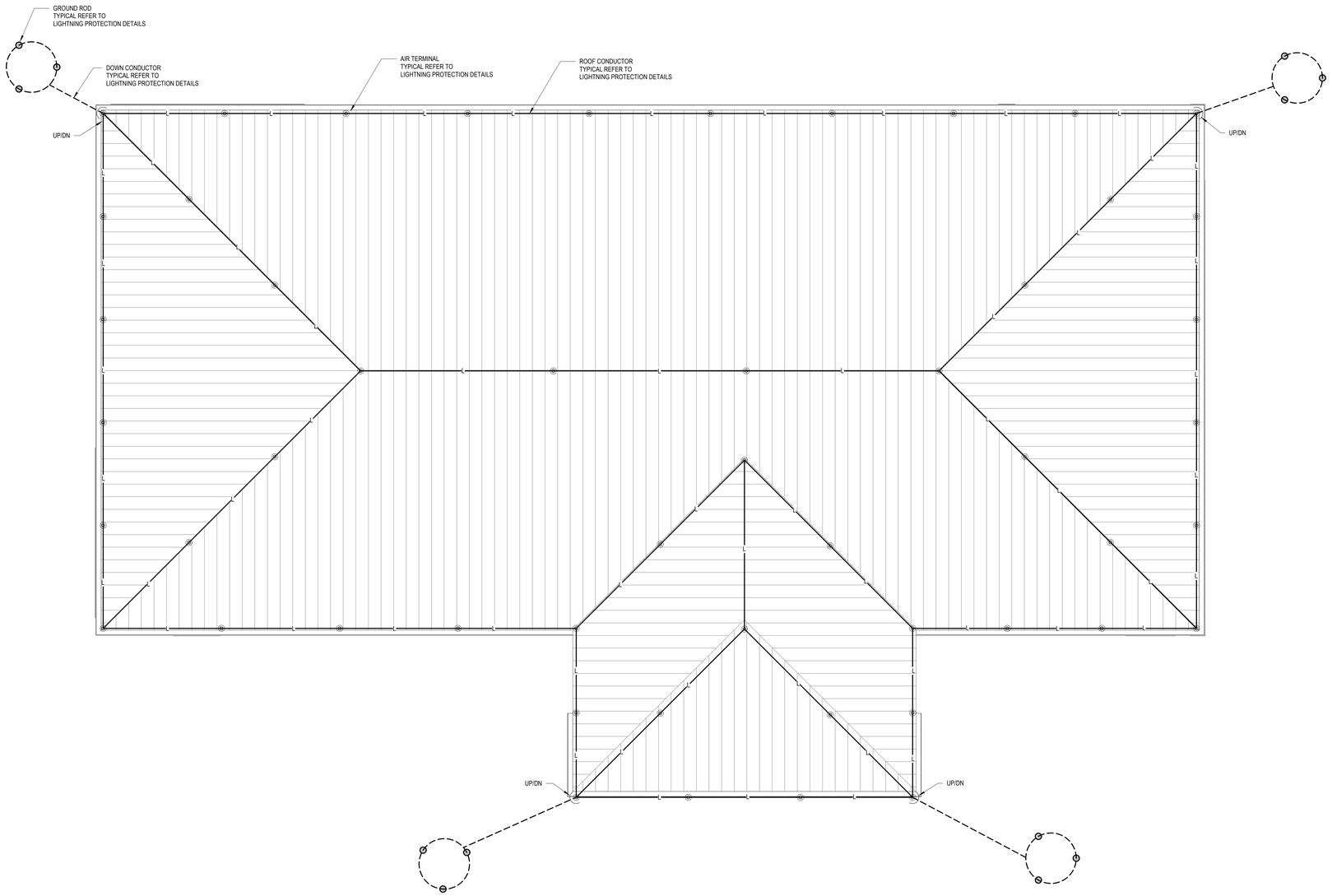
LEVEL 2
LIGHTING PLAN

E-124



LEVEL ROOF - LIGHTNING PROTECTION PLAN

N

1/8" = 1'-0"

0 4' 8' 16'

BID ALTERNATE 5:
PROVIDE DEDUCTIVE BID ALTERNATE FOR REMOVAL OF THE COMPLETE LIGHTNING PROTECTION SYSTEM.

BID ALTERNATE 4:
PROVIDE DEDUCTIVE BID ALTERNATE FOR BUILDING SIZE REDUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DELETION AND RELOCATION OF ROOMS ON THE NORTHERN SIDE OF THE BUILDING. THE IT ROOM AND SEVERAL OFFICES ARE RELOCATED AND/OR RESIZED IN ADDITION TO SERVERAL ROOMS BEING REMOVED ENTIRELY. ANY ASSOCIATED ELECTRICAL IS TO BE RELOCATED OR REMOVED IN ACCORDANCE WITH NEW FLOOR, CEILING, AND ROOF PLANS.

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DAG
Architects
AR0017640
455 Harrison Avenue
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Panama City, Florida 32401
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www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG ENGINEERS
HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Jonathan D. Hall, FL PE 97101
Caleb W. Leonard, FL PE 97182
Job No. 24113

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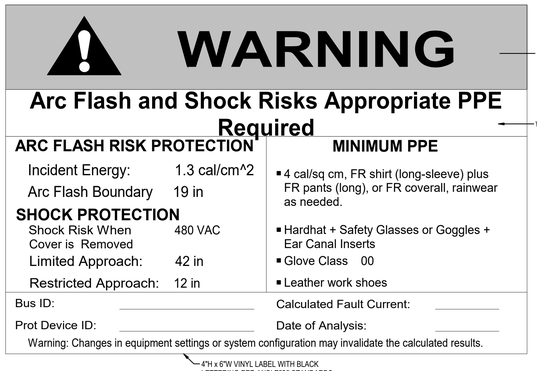
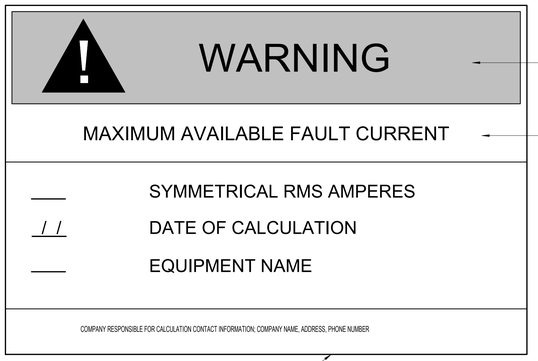
ROOF LIGHTNING PROTECTION PLAN

E-131



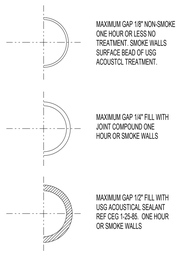
Arc Flash Hazard Label

NTS

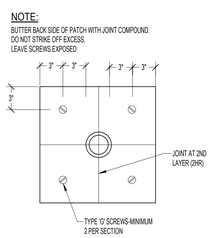


Service Equipment Fault Current Label

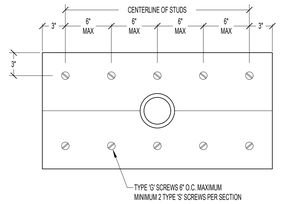
NTS



SMALL DIAMETER GAPS IN ONE-HOUR WALLS



OPENINGS UP TO 3" DIA.



OPENINGS OVER 3" DIA.

Fire Wall Penetrations

-APPLIES TO ALL CORRIDOR, SMOKE AND FIRE RATED WALLS

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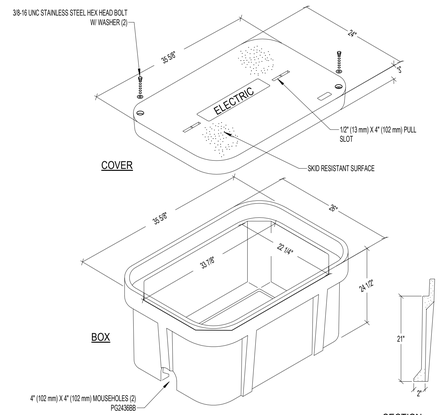
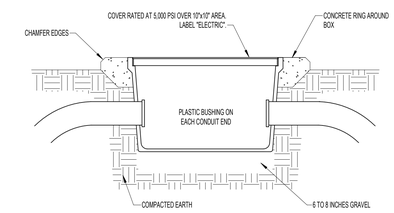
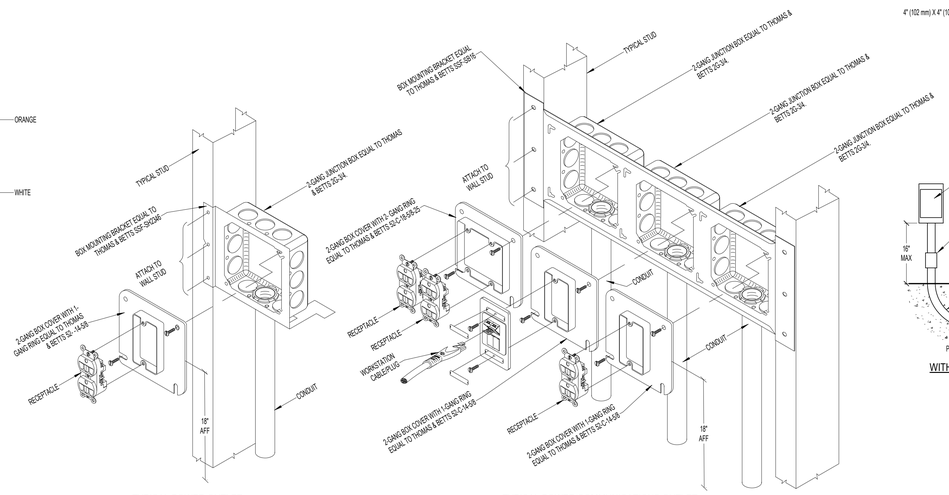


Underground Pullbox

NTS



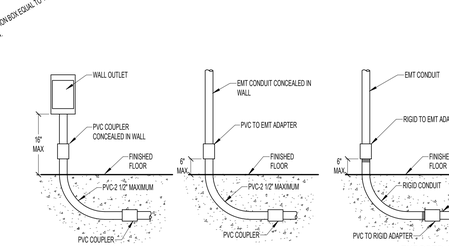


TYPICAL POWER OUTLET INSTALLATION

TYPICAL POWER/COMMUNICATIONS OUTLET INSTALLATION

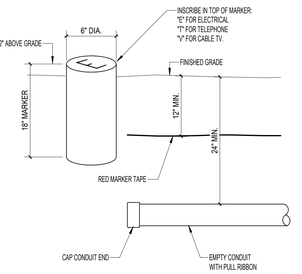
Outlet Installation

NTS



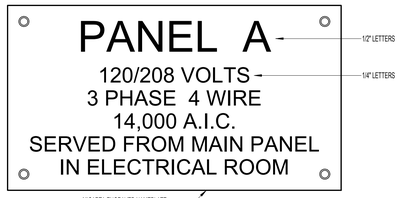
PVC Stub Up Details

NTS



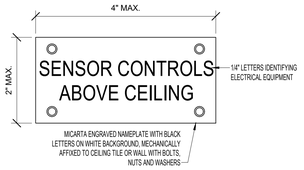
Conduit Marker

NTS



Electrical Equipment Nameplate

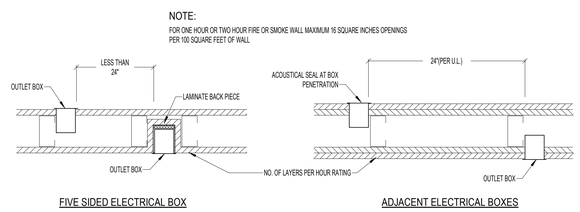
NTS



Elect Equipment Nameplate - Above Ceiling

NTS

NOTES	
(1)	FLOOR BOX FLANGED COVER, BY ELECTRICAL CONTRACTOR (WITH CARPET INSERT TO MATCH FLOOR).
(2)	POWER/COMMUNICATIONS PARTITION PLATE, BY ELECTRICAL CONTRACTOR.
(3)	1" HOMERUN COMMUNICATIONS CONDUIT BY STRUCTURED CABLING SYSTEM CONTRACTOR, RUN UNDERFLOOR TO SERVING COMMUNICATIONS RACK.
(4)	FLOOR BOX CONCRETE FORM BOX BARTHELMES MFG.CO. TELEPHONE #(716)328-8140 PART NUMBER U135808,BY ELECTRICAL CONTRACTOR.
(5)	"SO" CORD TO EACH RECEPTACLE. PROVIDE "CG" CONNECTION AT EACH END, BY ELECTRICAL CONTRACTOR.
(6)	POWER CONDUIT WITH WATERTIGHT FITTINGS, BY ELECTRICAL CONTRACTOR.
(7)	CONCRETE FLOOR SLAB. MAINTAIN THICKNESS AND CONSTRUCTION AROUND AND UNDER FORM BOX AS REQUIRED BY ARCHITECTURAL/STRUCTURAL DRAWINGS FOR STANDARD FLOOR CONSTRUCTION.
(8)	GALVANIZED BOX W/BLANK COVER, BY ELECTRICAL CONTRACTOR.
(9)	WATERPROOF MEMBRANE. MAINTAIN CONTINUOUS UNDER FORM BOX AS REQUIRED BY ARCHITECTURAL/STRUCTURAL DRAWINGS FOR STANDARD FLOOR CONSTRUCTION.
(10)	FLOOR BOX SHROUD, BY ELECTRICAL CONTRACTOR.
(11)	FLOOR BOX FRAME, BY ELECTRICAL CONTRACTOR.

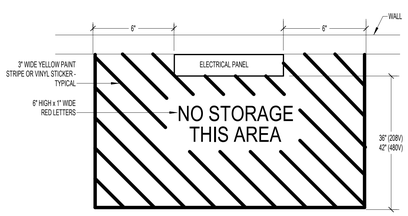


FIVE SIDED ELECTRICAL BOX

ADJACENT ELECTRICAL BOXES

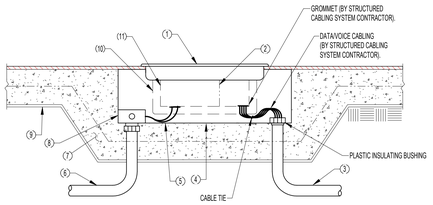
Wall Details - Electrical Box Installation

NTS



Panel Clearance

NTS



Floor Box Installation

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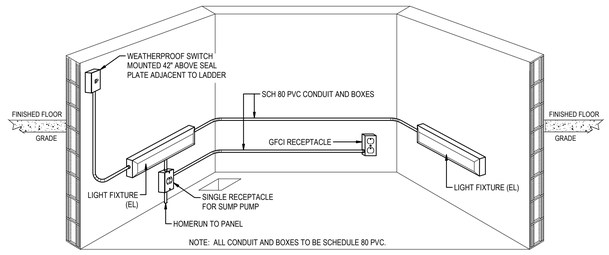

Elevator Pit Detail

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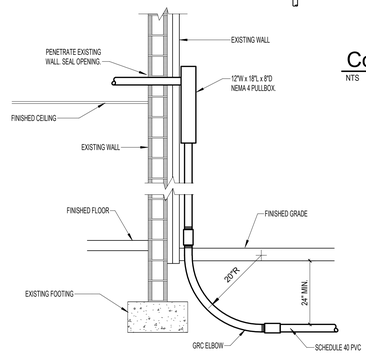

Existing Building Conduit Entry

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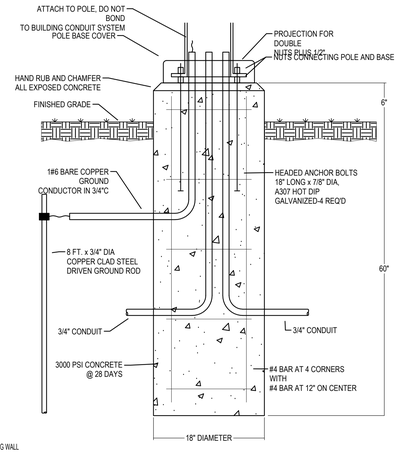

Concrete Pole Base Detail

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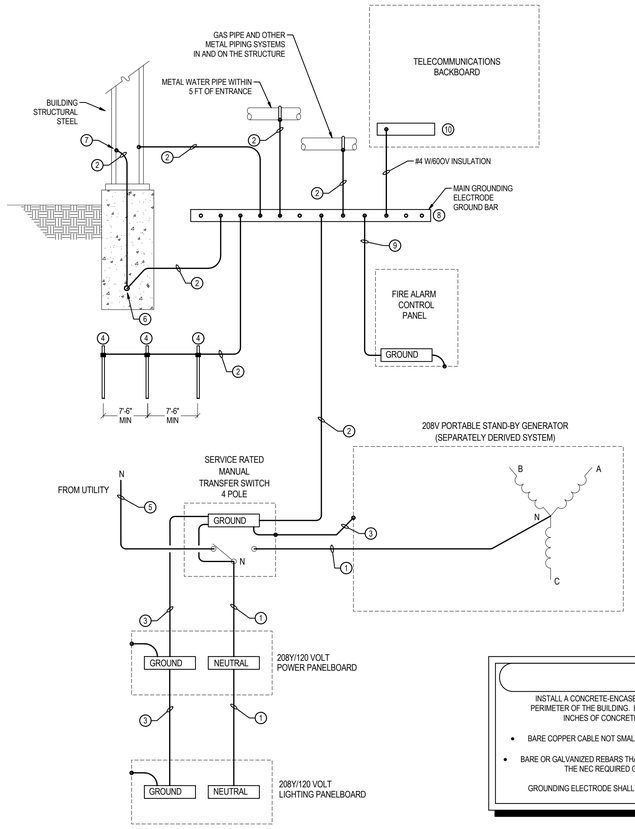
ELECTRICAL DETAILS

E-501



GENERAL NOTES

1.	BOND HOT AND COLD WATER PIPING SYSTEMS.
2.	CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
3.	INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
4.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE.
5.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.

KEYNOTES

(1)	INSTALL GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
(2)	INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO 4.
(3)	INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
(4)	10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL DRIVEN GROUND ROD.
(5)	INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250-66 OR 250.28(D)(1) USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE PHASE CONDUCTOR SIZE.
(6)	INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION PER NEC ARTICLE 250.52 (A) (3).
(7)	BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS OR USE EXOTHERMIC WELDS.
(8)	INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR
(9)	FIRE ALARM CONTROL PANEL GROUND - #6 COPPER CONDUCTOR.
(10)	INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4 COPPER CABLE AND COMPRESSION SPADE LUGS.

SPECIAL NOTE

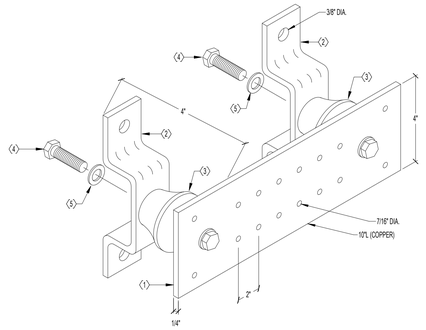
INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

- BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN NO 4.
- BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN NO 4 REBAR.

GROUNDING ELECTRODE SHALL BE INSPECTED AND VERIFIED BY THE ENGINEER PRIOR TO FILLING CONCRETE COVER.

208Y/120V Grounding System Diagram

NTS



GROUND BAR NOTES:	
1	INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
2	ROUTE 1#4 BARE CU IN 1"CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
3	CONNECT BARS WITH 1#6 BARE CU IN 1" CONDUIT.

NO.	DESCRIPTION
(1)	GROUND BAR
(2)	WALL MTG. BRACKET
(3)	INSULATORS
(4)	5/8"x1" H.H.C.S. BOLT
(5)	5/8" LOCKWASHER

Insulated Grounding Bar

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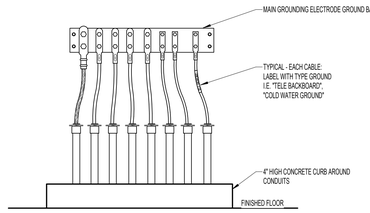

Grounding System Enclosure

NTS

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher M. Hall, FL PE 91310
Caleb W. Leonard, FL PE 91740
Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

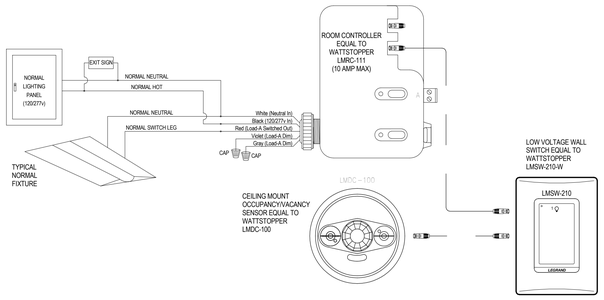
REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

GROUNDING DETAILS

E-502



Lighting Control Detail - Single Zone Without Dimming

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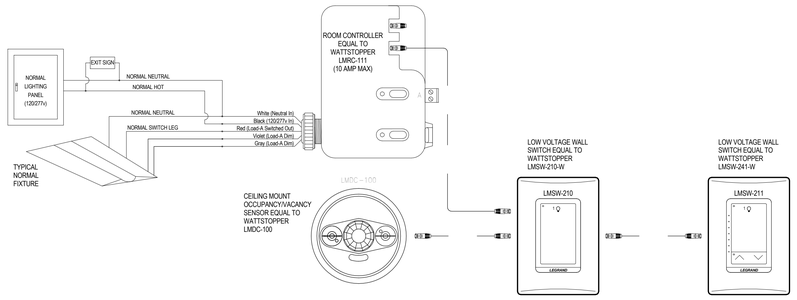

Lighting Control Detail - Single Zone With Dimming

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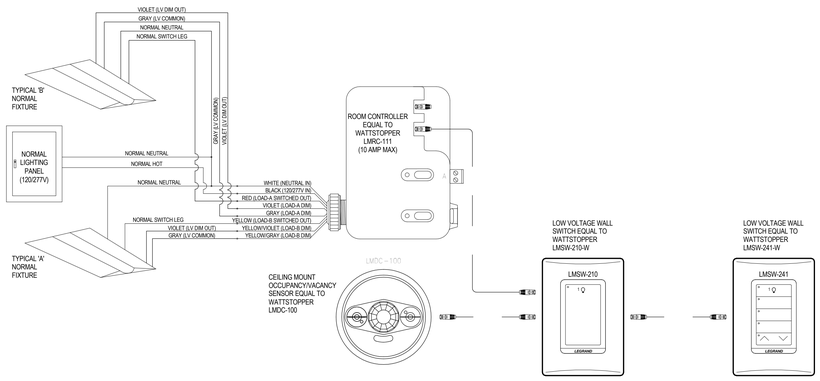

Lighting Control Detail - Dual Zone With Dimming

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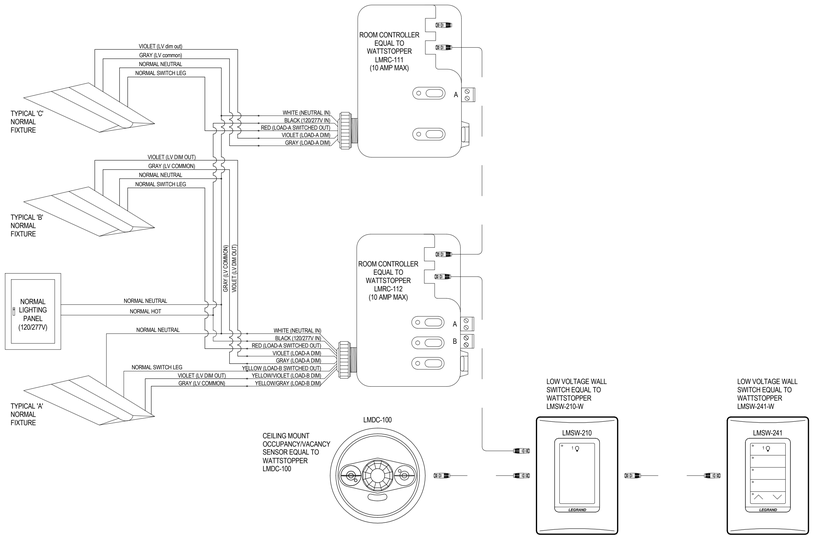

Lighting Control Detail - Tri Zone With Dimming

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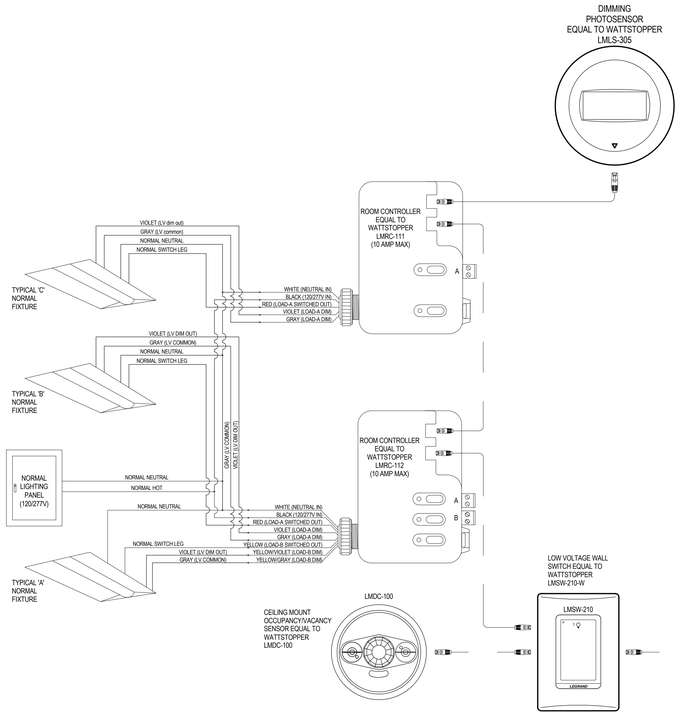

Lighting Control Detail - Tri Zone With Dimming & Daylight Harvesting

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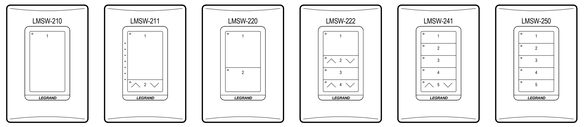
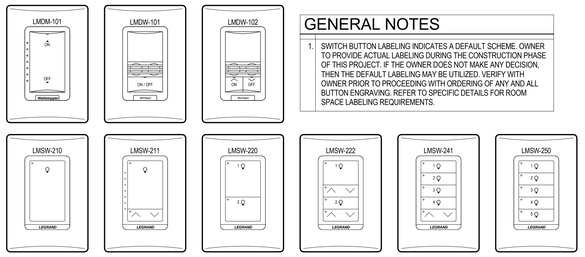


Lighting Control Detail - Switch Count

NTS



Lighting Control Detail - Switch Labeling

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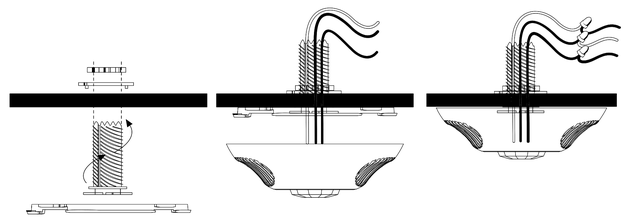
GENERAL NOTES

1. SWITCH BUTTON LABELING INDICATES A DEFAULT SCHEME. OWNER TO PROVIDE ACTUAL LABELING DURING THE CONSTRUCTION PHASE OF THIS PROJECT. IF THE OWNER DOES NOT MAKE ANY DECISION, THEN THE DEFAULT LABELING MAY BE UTILIZED. VERIFY WITH OWNER PRIOR TO PROCEEDING WITH ORDERING OF ANY AND ALL BUTTON ENGRAVING. REFER TO SPECIFIC DETAILS FOR ROOM SPACE LABELING REQUIREMENTS.



Occupancy Sensor Mounting

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ZONE LEGEND:

A LOCAL OCCUPANCY SENSOR 'ON'. 1-HOUR TIMED 'OFF'/OCC SENSOR CONFIRM 'OFF'.

B PHOTOCELL 'ON', TIMECLOCK 'OFF'; COORDINATE TIME SCHEDULE WITH OWNER.

C LOCAL LOW VOLTAGE DATALINE SWITCH OR OCC SENSOR 'ON'. BUILDING TIMESWEEP 'OFF'/OCC SENSOR CONFIRM 'OFF' AFTER CLOSE OF BUSINESS. 'FLASH' LIGHTS FOR OCCUPANT NOTIFICATION OF BUILDING TIMESWEEP EVENT. LOW VOLTAGE DATALINE SWITCH OVERRIDE TO RESET ONE HOUR TIMER. LOCAL LOW VOLTAGE DATALINE SWITCH OVERRIDE 'OFF'

D LOCAL LOW VOLTAGE DATALINE SWITCH OR OCC SENSOR 'ON'. LOCAL LOW VOLTAGE DATALINE SWITCH OVERRIDE 'OFF'

E BUILDING TIMESWEEP OR LOCAL LOW VOLTAGE DATALINE SWITCH 'ON'. AFTER CLOSE OF BUSINESS. 'FLASH' LIGHTS FOR OCCUPANT NOTIFICATION OF BUILDING TIMESWEEP EVENT. LOW VOLTAGE DATALINE SWITCH OVERRIDE TO RESET ONE HOUR TIMER. LOCAL LOW VOLTAGE DATALINE SWITCH OVERRIDE 'OFF'

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G BUILDING TIMESWEEP OR LOCAL OCC SENSOR 'ON'. BUILDING TIMESWEEP/OCC SENSOR CONFIRM 'OFF'. OCC SENSOR OVERRIDE TO RESET ONE HOUR TIMER.

LIGHTING CONTROL GENERAL NOTES

A. THE DIAGRAMS ARE NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR ESTIMATED DEVICE QUANTITIES AND LOCATIONS.

B. THE DIAGRAMS REPRESENT A TYPICAL SYSTEM AND ARE NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.

C. PROVIDE ADDITIONAL POWER AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.

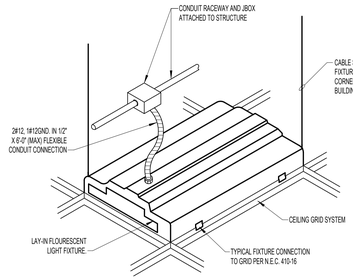
D. E.C. SHALL COORDINATE FIELD PROGRAMMING OF LIGHTING CONTROL SYSTEM WITH SYSTEM PROGRAMMER, SPECIFYING ENGINEER, AND OWNER TO ENSURE PROPER OPERATION AND TIME SCHEDULES.

E. ALL EMERGENCY AND EXIT LIGHTING CIRCUITS SHALL BE CONNECTED TO CONTINUOUS POWER SOURCE AHEAD OF RELAY PANEL OR INDIVIDUAL RELAY COMPONENTS.

F. SYSTEM PROGRAMMER SHALL COORDINATE A TRAINING SESSION WITH THE OWNER, TENANTS, AND THEIR REPRESENTATIVES PRIOR TO BUILDING OCCUPANCY.

G. INSTALL ALL CEILING SENSORS MINIMUM OF 6FT CLEAR OF DUCT REGISTERS.

H. ALL DATA LINE SWITCHES SHALL INCLUDE CUSTOM ENGRAVED LABEL INDICATING FUNCTION OF SWITCH. COORDINATE EXACT LABEL DESCRIPTIONS WITH OWNER PRIOR TO INSTALLATION.



Lay in Fixture 2 Cable Support

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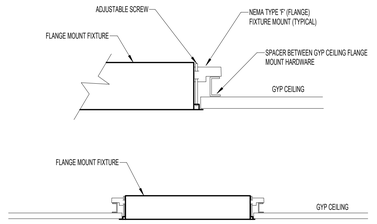

Flange Mount Fixture in Gyp Board Ceiling

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621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher M. Hall, FL PE 91310
Caleb W. Leonard, FL PE 91162
Job No. 24113

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LIGHTING CONTROL DETAILS

E-503

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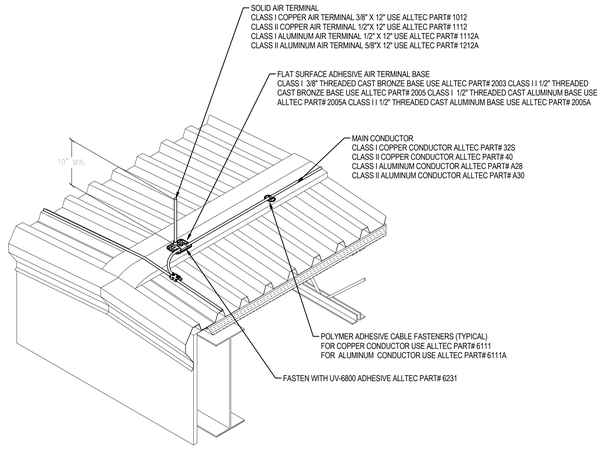

Air Terminal Mounted at Sloped Roof Ridge

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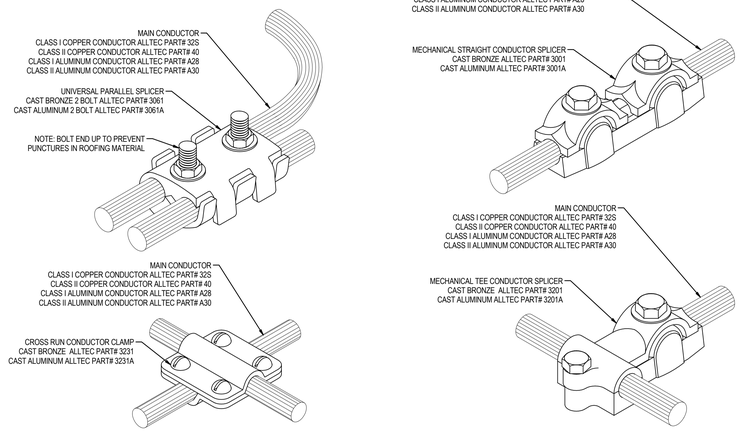

Cable Clamps & Splicers

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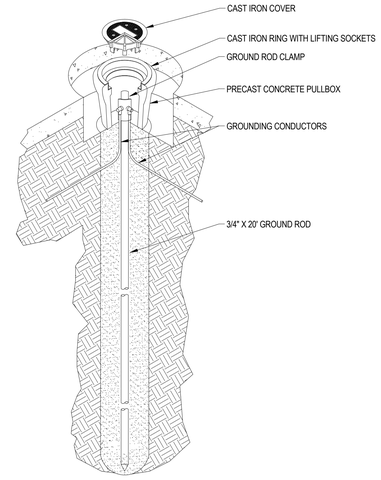

Grounding Well

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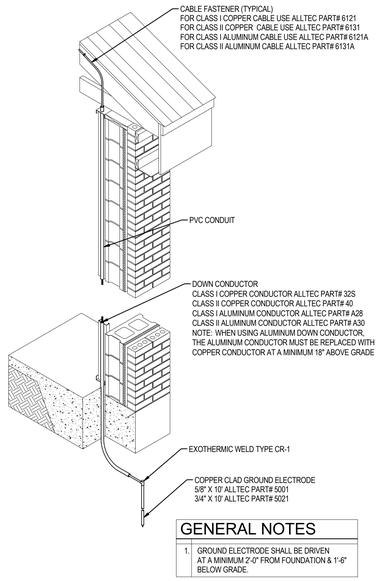

GENERAL NOTES	
1.	GROUND ELECTRODE SHALL BE DRIVEN AT A MINIMUM 2'-0" FROM FOUNDATION & 1'-6" BELOW GRADE.

Concealed Copper Down Conductor to Ground

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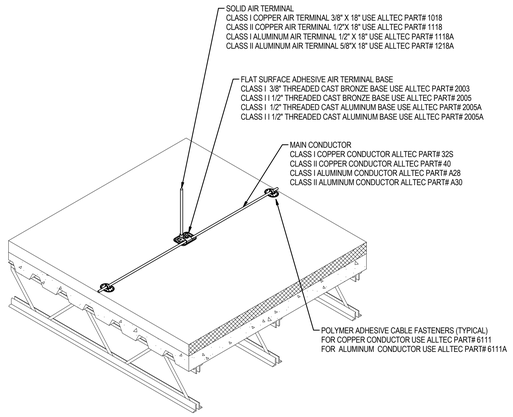

Mid Roof Mounted Air Terminal

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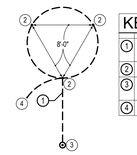

KEYNOTES	
1	LIGHTNING PROTECTION SYSTEM DOWNLEAD CONDUCTOR; SIZE TO BE DETERMINED BY SYSTEM SUPPLIER AND INSTALLER.
2	3/4"DIAx10' SECTIONAL DRIVEN GROUND ROD.
3	TYPICAL LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECS AND DETAIL THIS SHEET.
4	GROUND CONDUCTOR TO MAIN BUILDING GROUND.

Grounding Electrode System

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BID ALTERNATE 5:
PROVIDE DEDUCTIVE BID ALTERNATE FOR REMOVAL OF THE COMPLETE LIGHTNING PROTECTION SYSTEM.

DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

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Ph: 850.243.8723
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Caleb W. Leonard, FL PE 91782
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LIGHTNING PROTECTION DETAILS

E-504

PUBLIC SAFETY RADIO NOTES

1.	THE PUBLIC SAFETY RADIO SIGNAL STRENGTH SHALL MEET OR EXCEED MINIMUM LEVELS ESTABLISHED BY THE AHJ.
2.	THE CONTRACTOR SHALL PROVIDE SIGNAL TESTING WITHIN THE BUILDING. WHERE SIGNAL STRENGTH DOES NOT COMPLY WITH AHJ MINIMUM REQUIREMENTS A BIDIRECTIONAL ANTENNA (BDA) SYSTEM SHALL BE PROVIDED TO BOOST SIGNAL STRENGTH.
3.	ALL SIGNAL TESTING, BDA SYSTEM DESIGN, AND SYSTEM COMMISSIONING SHALL BE DONE BY A SINGLE THIRD PARTY COMPANY. THE THIRD PARTY COMPANY SHALL BE OEM CERTIFIED FROM THE MANUFACTURER OF PRODUCTS SPECIFIED WITHIN THE SYSTEM. ALL BDA SYSTEM DESIGN SHALL BE DONE WITH IBWAVE SOFTWARE AND THE DESIGNER OF RECORD SHALL HAVE A LEVEL 3 CERTIFICATION.
4.	SIGNAL TESTING SHALL BE COMPLETED NO SOONER THAN AFTER THE ROOF, WALLS, WINDOWS, AND ALL STRUCTURAL COMPONENTS THAT MAY IMPEDE SIGNAL STRENGTH ARE IN PLACE.
5.	FOR ANY BDA SYSTEM ADDITION, AN INSTALLATION DRAWING SHALL BE PRODUCED BY THE THIRD PARTY COMPANY AND SUBMITTED FOR REVIEW AS SHOP DRAWING. THE SUBMITTAL SHALL INCLUDE COMPANY QUALIFICATIONS, TEST RESULTS, PRODUCT CUT SHEETS, AND INSTALLATION DRAWING. THE INSTALLATION DRAWING SHALL INCLUDE PLANS WITH DEVICE/EQUIPMENT LOCATIONS, RISER DIAGRAMS, AND DETAILS.
6.	COMMISSIONING OF THE INSTALLED BDA SYSTEM SHALL BE PROVIDED BY THE THIRD PARTY COMPANY.
7.	THE BDA SYSTEM SHALL COMPLY WITH THE CURRENTLY ADOPTED YEAR NFPA 72, NFPA 1221, AND NFPA 1225 ACCORDING TO THE GOVERNING JURISDICTION.

PUBLIC SAFETY RADIO SIGNAL

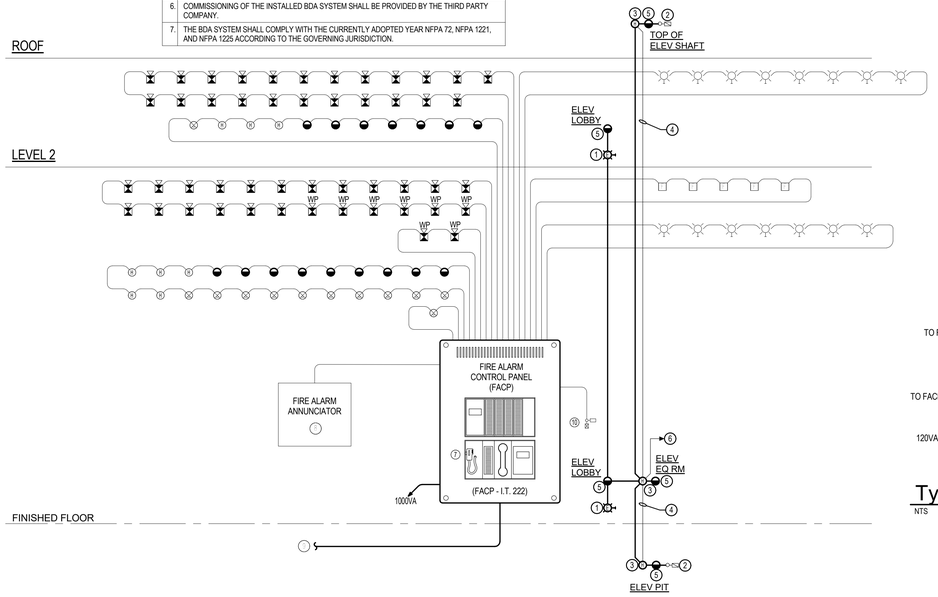
ALL NEW AND EXISTING BUILDINGS MUST COMPLY WITH THE FLORIDA FIRE PREVENTION CODE REQUIREMENTS FOR IN-BUILDING PUBLIC SAFETY COMMUNICATIONS COVERAGE. PUBLIC SAFETY RADIO SIGNAL STRENGTH SHALL MEET THE REQUIREMENTS AS SET FORTH BY THE LOCAL FIRE CODE OFFICIAL. REFER TO PUBLIC SAFETY RADIO NOTES.

LEGEND

———	FIRE ALARM WIRING

FIRE ALARM RISER GENERAL NOTES

1.	THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR DEVICE QUANTITIES AND LOCATIONS.
2.	THE RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION, SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
3.	PROVIDE ADDITIONAL MONITOR AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
4.	FIRE ALARM SYSTEM SHALL HAVE U.L. APPROVED DIGITAL ALARM DIALER/COMMUNICATOR TO SEND ALARM SIGNAL TO MONITORING SERVICE.
5.	FIRE ALARM SYSTEM LOW VOLTAGE SOURCE AND BATTERY STAND-BY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
6.	REFER TO MECHANICAL DRAWINGS FOR SMOKE AND/OR SMOKE/FIRE DAMPER LOCATIONS. CONNECT TO FIRE ALARM SYSTEM AND TO 120V POWER.
7.	VERIFY LOCATION AND QUANTITIES OF FLOW AND TAMPER SWITCHES WITH SPRINKLER CONTRACTOR.



Fire Alarm Riser

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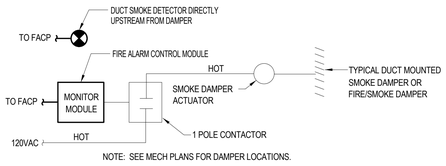
KEYNOTES

1	FLASHING "DO NOT USE ELEVATOR" SIGN, TO FLASH WHEN SMOKE DETECTED AT ELEVATOR SHAFT OR MACHINE ROOM.
2	FLOW SWITCH
3	135° FIXED TEMP. DUAL CONTACT HEAT DETECTOR. LOCATE ADJACENT TO SPRINKLER HEAD
4	SHUNT TRIP WIRING
5	DUAL CONTACT
6	TO SHUNT TRIP OF ELEVATOR POWER
7	INSTALL VOICE EVACUATION MICROPHONE & AMPLIFIER AS REQUIRED.
8	INSTALL FIRE ALARM ANNUNCIATOR PANEL IN LOBBY RECEPTION AREA TO MEET LIFE SAFETY CODE REQUIREMENTS FOR "CONSTANTLY MONITORED LOCATION".
9	TWO 6 STRAND FIRE OPTIC CABLE IN 2"C - SEE SITE PLAN.
10	BUILDING SPRINKLER FLOW AND TAMPER SWITCH. VERIFY EXACT LOCATION AND QUANTITY WITH SPRINKLER CONTRACTOR.



NOTE: SEE MECH PLANS FOR DAMPER LOCATIONS.

Typical Smoke or Smoke/Fire Damper Control Diagram

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FIRE ALARM RISER DIAGRAM

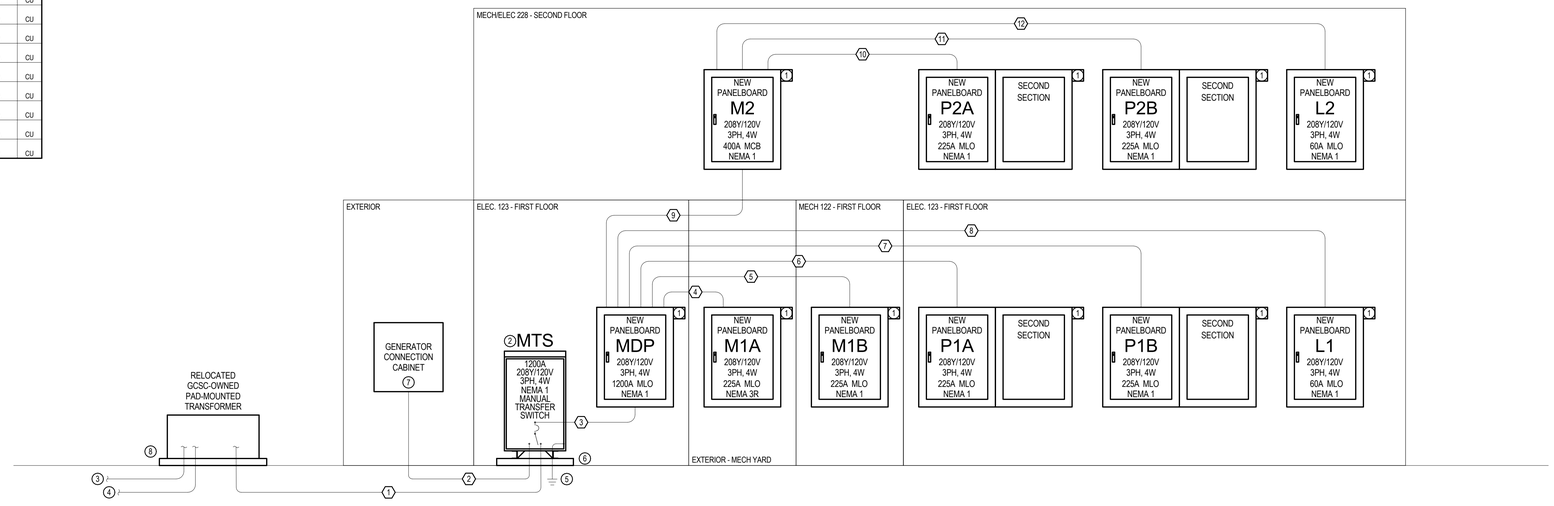
E-601

FEEDER SCHEDULE

	EQUIPMENT NAME	FED FROM	BREAKER RATING	BREAKER POLES	PARALLEL RUNS	CONDUIT	PH + N CONDUCTOR QTY.	PHASE & GROUND(GEN) CONDUCTOR	EQUIPMENT GROUND CONDUCTOR	SUPPLY SIDE BONDING CONDUCTOR	MATERIAL
1	MTS	UTILITY XFMR	1200	3	4	3"	4	350 KCMIL	N/A	3/0 AWG	CU
3	MDP	MTS	1200	3	4	3"	4	350 KCMIL	3/0 AWG	N/A	CU
4	M1A	MDP	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
5	M1B	MDP	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
6	P1A	MDP	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
7	P1B	MDP	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
8	L1	MDP	60	3	1	1"	4	6 AWG	10 AWG	N/A	CU
9	M2	MDP	400	3	2	2"	4	3/0 AWG	3 AWG	N/A	CU
10	P2A	M2	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
11	P2B	M2	225	3	1	2-1/2"	4	4/0 AWG	4 AWG	N/A	CU
12	L2	M2	60	3	1	1"	4	6 AWG	10 AWG	N/A	CU

KEYNOTES

1	INSTALL SURGE SUPPRESSOR IN BREAKER POSITION NEAREST NEUTRAL BAR WITH 3#10, 1#10G IN 3/4"C. LEAD LENGTH SHALL NOT EXCEED UL 1449 4TH EDITION TEST OF 14".
2	SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH 'ATS' FOR GENERATOR. PROVIDE AS NEMA 1, 4 POLE, 208Y/120V, 3PH, 4W, 65K AIC MINIMUM.
3	INCOMING PRIMARY ELECTRICAL, EC TO PROVIDE TWO (2) RUNS OF 4"C. PROVIDE THE FIRST CONDUIT RUN WITH 3#1/0 AL 15KV CONDUCTOR WITH FULLY CONCENTRIC NEUTRAL AND #4 THWN CU GROUND. PROVIDE THE SECOND CONDUIT RUN WITH PULLSTRING. COORDINATE WITH GCSC. TERMINATE AT EXISTING LIBRARY TRANSFORMER, SEE SITE PLAN FOR DETAILS.
4	INCOMING PRIMARY ELECTRICAL, EC TO PROVIDE TWO (2) RUNS OF 4"C. PROVIDE THE FIRST CONDUIT RUN WITH 3#1/0 AL 15KV CONDUCTOR WITH FULLY CONCENTRIC NEUTRAL AND #4 THWN CU GROUND. PROVIDE THE SECOND CONDUIT RUN WITH PULLSTRING. COORDINATE WITH GCSC. TERMINATE AT EXISTING PRIMARY SWITCH, SEE SITE PLAN FOR DETAILS.
5	REFER TO GROUNDING DETAILS SHEET FOR ADDITIONAL INFORMATION.
6	PROVIDE 4" CONCRETE PAD.
7	GENERATOR CONNECTION CABINET FOR PORTABLE GENERATOR. PROVIDE RATED AS 600A, 208Y/120V, 3PH, 4W WITH A NEMA 4X-SS ENCLOSURE.
8	CONTRACTOR TO PROVIDE NEW TRANSFORMER PAD, REFER TO DETAIL.



Single Line Power Riser Diagram

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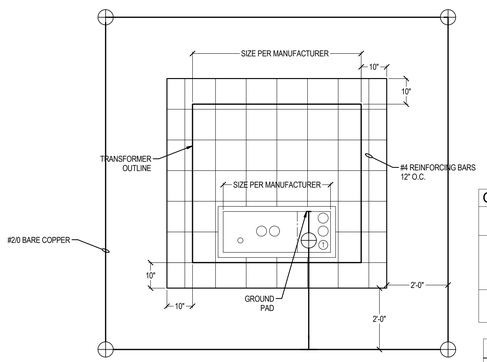
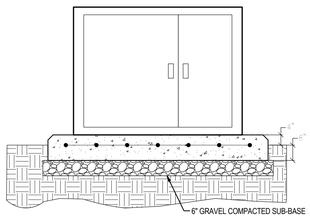


GENERAL NOTES

1	INSTALL WITH A MINIMUM CLEARANCE OF 10 FT FROM ALL BUILDINGS AND OBSTRUCTIONS.
2	CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 LBS. PAD SHALL NOT BE CURED LESS THAN 72 HOURS. PAD MOUNTING SURFACE SHALL BE LEVEL, SMOOTH AND UNIFORM.
3	SECURE TRANSFORMER TO CONCRETE PAD WITH ANCHOR BOLTS AS DIRECTED BY MANUFACTURER.

KEYNOTES

1	LEAVE 6" OF GROUND ROD EXPOSED



Transformer Pad Detail

NTS

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG ENGINEERS
HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garick, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher D. Hall, FL PE 91310
Caleb W. Leonard, FL PE 91192

Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

POWER RISER DIAGRAM

E-602

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

					ELECTRICAL LOAD						PROTECTION				CONDUCTOR / CONDUIT SIZE						
					MOTOR(S) FLA								SPECIFIED			CONDUCTORS					
EQUIPMENT DESIGNATION	DESCRIPTION	CFM	VOLT	Φ	QTY	LARGEST	SUM OF REMAINING	ELECTRIC kW	HEAT KW	OTHER VA	TOTAL CONNECTED VA	MCA	MOCP	TRIP	POLE	SETS	QTY.	SIZE	GND	CONDUIT	DISC.	REMARKS
	ELEVATOR		208	3	1						9727		60	60	3	1	4	#6	#10	1"	60/3/1	PROVIDE DISCONNECT LOCKABLE IN THE OFF POSITION WITH TWO (2) ADDITIONAL CONTACTS
	JOCKEY PUMP (1 HP)		208	3	1	4.8					1729	6	15	15	3	1	4	#12	#12	3/4"	30/3/1	
AHU-1.1	AIR HANDLER UNIT	1095	208	1	1	3.3					686	4.13	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-1.2	AIR HANDLER UNIT	1600	208	1	1	7.73					1608	9.66	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-1.3	AIR HANDLER UNIT	735	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-1.4	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-1.5	AIR HANDLER UNIT	1095	208	1	1	3.3					686	4.13	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-1.6	AIR HANDLER UNIT	1485	208	1	1	4.5					936	5.63	15	15	2	1	3	#12	#12	3/4"	30/2/1	
AHU-1.7	AIR HANDLER UNIT	585	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	30/2/1	
AHU-1.8	AIR HANDLER UNIT	875	208	1	1	3.3					686	4.13	15	15	2	1	3	#12	#12	3/4"	30/2/1	
AHU-1.9	AIR HANDLER UNIT	735	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	30/2/1	
AHU-1.10	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	30/2/1	
AHU-2.1	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.2	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.3	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.4	AIR HANDLER UNIT	1095	208	1	1	3.3					686	4.14	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.5	AIR HANDLER UNIT	400	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.6	AIR HANDLER UNIT	1095	208	1	1	3.3					686	4.13	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.7	AIR HANDLER UNIT	735	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.8	AIR HANDLER UNIT	1400	208	1	1	4.5					936	5.63	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.9	AIR HANDLER UNIT	1600	208	1	1	7.73					1608	9.66	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.10	AIR HANDLER UNIT	735	208	1	1	2.4					499	3	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
AHU-2.11	AIR HANDLER UNIT	1400	208	1	1	4.5					936	5.63	15	15	2	1	3	#12	#12	3/4"	PNL BRKR	
BC-1	BRANCH CONTROLLER		208	1	1	0.195		0.95			991	1.2	20	15	2	1	3	#12	#12	3/4"	30/2/1	
BC-2	BRANCH CONTROLLER		208	1	1	0.195		0.95			991	1.2	20	15	2	1	3	#12	#12	3/4"	PNL BRKR	
HP-1	HEAT RECOVERY SYSTEM	7400	208	3	3						6656	40	60	60	3	1	4	#6	#10	1"	PNL BRKR	MODULE 1
		7400	208	3	3						6656	40	60	60	3	1	4	#6	#10	1"	PNL BRKR	MODULE 2
HP-2	HEAT RECOVERY SYSTEM	8300	208	3	3						8320	50	80	80	3	1	4	#4	#8	1-1/4"	PNL BRKR	MODULE 1
		8300	208	3	3						8320	50	80	80	3	1	4	#4	#8	1-1/4"	PNL BRKR	MODULE 2
OACU-1	OUTDOOR AIR-COOLED CONDENSER		208	3	2	9.4	9.4				6773	21.2	30	30	3	1	4	#10	#10	3/4"	PNL BRKR	
OACU-2	OUTDOOR AIR-COOLED CONDENSER		208	3	2	9.4	9.4				6773	21.2	30	30	3	1	4	#10	#10	3/4"	PNL BRKR	
OAU-1	INDOOR AIR-COOLED CONDENSER	2500	208	3	3	51.3	59.2	36			75809	135.5	175	175	3	1	4	#20	#6	2"	200/3/1	PROVIDE ADDITIONAL 120V CIRCUIT FOR UV LIGHTS
OAU-2	INDOOR AIR-COOLED CONDENSER	2700	208	3	3	51.3	59.2	39			78809	145.9	175	175	3	1	4	#20	#6	2"	200/3/1	PROVIDE ADDITIONAL 120V CIRCUIT FOR UV LIGHTS
MHP-1	OUTDOOR MINI SPLIT SYSTEM	1500	208	1	2	7	0.5				1560	11	28	30	2	1	3	#10	#10	3/4"	PNL BRKR	OUTDOOR UNIT TO SUPPLY POWER TO INDOOR UNIT
MHP-2	OUTDOOR MINI SPLIT SYSTEM	3880	208	1	3	8	1				1872	25	31	30	2	1	3	#10	#10	3/4"	PNL BRKR	OUTDOOR UNIT TO SUPPLY POWER TO INDOOR UNIT
WM-1.1	INDOOR MINI SPLIT SYSTEM	455	208	1	1	0.19					40	1		30	2	1	3	#10	#10	3/4"	2P TOGGLE	INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT
WM-2.1	INDOOR MINI SPLIT SYSTEM	920	208	1	1	0.265					55	1		30	2	1	3	#10	#10	3/4"	2P TOGGLE	INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT
AC-1	AIR COMPRESSOR (7.5 HP)		208	3	1	25.3					9115	31.6	60	60	3	1	4	#6	#10	1"	PNL BRKR	
VP-1	VACUUM PUMP (2 HP)		208	3	1	7.8					2810	9.8	20	20	3	1	4	#12	#12	3/4"	30/3/1	
EF-1.1	EXHAUST FAN (1/2 HP)		120	1	1	9.8					1176					1	2	#N/A	#N/A	#N/A	1P TOGGLE	CONTINUOUS OPERATION DURING OCCUPANCY BY DDC
EF-1.2	EXHAUST FAN (1/6 HP)		120	1	1	4.4					528					1	2	#N/A	#N/A	#N/A	1P TOGGLE	CONTINUOUS OPERATION DURING OCCUPANCY BY DDC
EF-2.1	EXHAUST FAN (1/6 HP)		120	1	1	4.4					528					1	2	#N/A	#N/A	#N/A	1P TOGGLE	CONTINUOUS OPERATION DURING OCCUPANCY BY DDC
EF-2.2	EXHAUST FAN (1/6 HP)		120	1	1	4.4					528					1	2	#N/A	#N/A	#N/A	1P TOGGLE	CONTINUOUS OPERATION DURING OCCUPANCY BY DDC
EWH-1	ELECTRIC WATER HEATER		208	3				12.3			15375	34.1	35	35	3	1	4	#8	#10	3/4"	60/3/1	
EWH-2	ELECTRIC WATER HEATER		208	3				15			18750	41.6	45	45	3	1	4	#8	#10	3/4"	60/3/1	
EWC-1	ELECTRIC WATER COOLER		120	1	1	5					600	6.3	20	20	1	1	2	#12	#12	3/4"	5-20R GFCI	
SP-1	SUMP PUMP (1/2 HP)		120	1	1	8					960	10	20	20	1	1	2	#12	#12	3/4"	5-20R GFCI	
UR-1	URINAL FLUSH VALVE		120	1						30	30	0.3	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER
LV-1	LAVATORY		120	1						30	30	0.3	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER
LV-2	LAVATORY		120	1						30	30	0.3	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER
LV-3	LAVATORY		120	1						30	30	0.3	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER
WC-1	WATER CLOSET FLUSH VALVE		120	1						30	30	0.8	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER
WC-2	WATER CLOSET FLUSH VALVE		120	1						30	30	0.8	15	15	1	1	2	#12	#12	3/4"		MAX EIGHT UNITS PER DC POWER CONVERTER

SWITCH FUNCTION / CONTROL MATRIX

Room #	Low Voltage Switch Button Qty. (Switch Model #)	Zone of Control	Switch Button Number and Correlated Function...										Additional Notes
			Button #1		Button #2		Button #3		Button #4		Button #5		
			Function	Label	Function	Label	Function	Label	Function	Label	Function	Label	
100, 200	1	ALL	ON/OFF	ON/OFF									
101	1		ON/OFF	ON/OFF									
102	1		ON/OFF	ON/OFF									
Typical	1		ON/OFF	ON/OFF									103-107,112-116,203-217,230A-B
108	1	ALL	ON/OFF	ON/OFF									
	5	ALL	ON/OFF	ALL ZONES							DIM	UP/DOWN	
		A			ON/OFF	ZONE A							
		B					ON/OFF	ZONE B					
109	1		ON/OFF	ON/OFF									
115	1		ON/OFF	ON/OFF									
117	1		ON/OFF	ON/OFF									
118	1	ALL	ON/OFF	ON/OFF									
	5	ALL	ON/OFF	ALL ZONES							DIM	UP/DOWN	
		A			ON/OFF	ZONE A							
		B					ON/OFF	ZONE B					
		C							ON/OFF	ZONE C			
119	1	ALL	ON/OFF	ON/OFF									
	5	ALL	ON/OFF	ALL ZONES							DIM	UP/DOWN	
		A			ON/OFF	ZONE A							
		B					ON/OFF	ZONE B					
120	1	ALL	ON/OFF	ON/OFF									
	5	ALL	ON/OFF	ALL ZONES							DIM	UP/DOWN	
		A			ON/OFF	ZONE A							
		B					ON/OFF	ZONE B					
121	1		ON/OFF	ON/OFF									
124	1		ON/OFF	ON/OFF									
100D	1		ON/OFF	ON/OFF									
Typical	1		ON/OFF	ON/OFF									100B,100C,102A,200A,200C,202
201	1		ON/OFF	ON/OFF									
224	1		ON/OFF	ON/OFF									
226	1		ON/OFF	ON/OFF									
227	1	ALL	ON/OFF	ON/OFF									
	5	ALL	ON/OFF	ALL ZONES							DIM	UP/DOWN	
		A			ON/OFF	ZONE A							
		B					ON/OFF	ZONE B					
		C							ON/OFF	ZONE C			
229	1	ALL	ON/OFF	ON/OFF									
	2		ON/OFF	ON/OFF	DIM	UP/DOWN							
230	1		ON/OFF	ON/OFF									
	2		ON/OFF	ON/OFF	DIM	UP/DOWN							
231	1		ON/OFF	ON/OFF									
	2		ON/OFF	ON/OFF	DIM	UP/DOWN							

LIGHTING FIXTURE SCHEDULE

Project: #24113 - GCSC NURSING AND SIMULATION CENTER

Note: Per electrical specification...

Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Prior Approved Equal Required
CPE	LITHONIA	VCPG-LED-VA-P1-35K-80CRI-LANE-MVOLT-SRM-E10WH-DNAXD	120V	27	LED	80	3500K	CANOPY CEILING SURFACE		YES
DL4	H.E. WILLIAMS	4DR-TL-L10/835-DIM-UNV-LM-OF-WH-N-F1	120V	9	LED	80	3500K	GYPSUM CEILING RECESSED		YES
DL4E	H.E. WILLIAMS	4DR-TL-L10/835-DIM-UNV-LM-OF-WH-N-F1-EM7W	120V	9	LED	80	3500K	GYPSUM CEILING RECESSED		YES
DL6	H.E. WILLIAMS	6DR-TL-L10/835-DIM-UNV-LM-OF-WH-N-F1	120V	8.7	LED	80	3500K	GYPSUM CEILING RECESSED		YES
DL6E	H.E. WILLIAMS	6DR-TL-L10/835-DIM-UNV-LM-OF-WH-N-F1-EM7W	120V	8.7	LED	80	3500K	GYPSUM CEILING RECESSED		YES
DL6S	H.E. WILLIAMS	6DR-TL-L10/835-DIM-UNV-SW-OF-WH-WET/CC-N-F1	120V	8.7	LED	80	3500K	GYPSUM CEILING RECESSED		YES
DL8	H.E. WILLIAMS	8DR-L60/830-DIM-120-OM-CS-MWT-N-F1	120V	71.9	LED	80	3000K	GRID CEILING RECESSED		YES
DL8E	H.E. WILLIAMS	8DR-L60/830-DIM-120-OM-CS-MWT-N-F1-EM/10W	120V	71.9	LED	80	3000K	GRID CEILING RECESSED		YES
N1.XXX	LUMENWERX	V4A1.5R-D-HLO-FH-SW-80-200LMF-30K-XXX-UNV-D1-1C-DTR-W	120V	2.7 / FT	LED	80	3000K	GYPSUM CEILING RECESSED	XXX INDICATES TOTAL LENGTH IN INCHES. COORDINATE LENGTH WITH ARCHITECTUAL DRAWINGS AND MANUFACTURER PRIOR TO PROCURMENT.	YES
N2.XXX	LUMENWERX	V4A2R-D-HLO-FH-SW-80-500LMF-30K-XXX-UNV-D1-1C-DTR-W	120V	4.7 / FT	LED	80	3000K	GYP & GRID CEILINGS RECESSED	XXX INDICATES TOTAL LENGTH IN INCHES. COORDINATE LENGTH WITH ARCHITECTUAL DRAWINGS AND MANUFACTURER PRIOR TO PROCURMENT.	YES
N3.XXX	LUMENWERX	V3SEALPERD-D-IP54-EPDO-SW-80-500LMF-30K-XXX-UNV-D1-1C-TF-DTR-W	120V	5.3 / FT	LED	80	3000K	LAMINATE CEILING RECESSED	XXX INDICATES TOTAL LENGTH IN INCHES. COORDINATE LENGTH WITH ARCHITECTUAL DRAWINGS AND MANUFACTURER PRIOR TO PROCURMENT.	YES
N4H	LUMENWERX	V4A4R-D-HLO-FH-SW-80-1000LMF-30K-4FT-UNV-D1-1C-DTR-W	120V	34.8	LED	80	3000K	GRID CEILING RECESSED		YES
N4HE	LUMENWERX	V4A4R-D-HLO-FH-SW-80-1000LMF-30K-4FT-UNV-D1-1EMB-1C-DTR-W	120V	34.8	LED	80	3000K	GRID CEILING RECESSED		YES
N4M	LUMENWERX	V4A4R-D-HLO-FH-SW-80-750LMF-30K-4FT-UNV-D1-1C-DTR-W	120V	25.2	LED	80	3000K	GRID CEILING RECESSED		YES
N4ME	LUMENWERX	V4A4R-D-HLO-FH-SW-80-750LMF-30K-4FT-UNV-D1-1EMB-1C-DTR-W	120V	25.2	LED	80	3000K	GRID CEILING RECESSED		YES
N4SE	LUMENWERX	V4A4S-D-HLO-FH-SW-80-750LMF-30K-4FT-UNV-D1-1EMB-1C-DTR-W	120V	25.2	LED	80	3000K	GRID CEILING RECESSED		YES
L22	H.E. WILLIAMS	LT-22-L27/835-AF-DIM-UNV	120V	21.3	LED	80	3500K	GRID CEILING RECESSED		YES
L22E	H.E. WILLIAMS	LT-22-L27/835-AF-DIM-UNV-EM/10W	120V	21.3	LED	80	3500K	GRID CEILING RECESSED		YES
L24	H.E. WILLIAMS	LT-24-L40/835-AF-DIM-UNV	120V	32	LED	80	3500K	GRID CEILING RECESSED		YES
L24E	H.E. WILLIAMS	LT-24-L40/835-AF-DIM-UNV-EM/10W	120V	32	LED	80	3500K	GRID CEILING RECESSED		YES
PGS	SONNEMAN	2910.14-LRG	120V	6	LED	90	3000K	GRID CEILING SUSPENDED	VARIOUS PENDANT HEIGHTS; COORDINATE PENDANT LENGTH WITH ARCHITECTURAL DRAWINGS	YES
PL	COOPER LIGHTING	MSA-SA1-D-835-U-SWQ-BK	120V	67	LED	80	3500K	POLE TENON		YES
PL POLE	NLS LIGHTING	RSAP-10-5R-120-9BC-ND-T312R-BLK-3430	---	---	---	---	---	CONCRETE BASE	MOUNT AT GRADE	YES
SL20	H.E. WILLIAMS	AG-P33-20-L16/835-DIM-UNV	120V	52.6	LED	80	3500K	GRID CEILING SUSPENDED	MOUNT 7'-0" AFF	YES
V2	H.E. WILLIAMS	WMA-2-L20/835-AF-DIM-UNV	120V	15.3	LED	80	3500K	GYPSUM WALL SURFACE	COORDINATE MOUNTING HEIGHT ABOVE BATHROOM MIRRORS.	YES
V3	H.E. WILLIAMS	WMA-3-L30/835-AF-DIM-UNV	120V	21.3	LED	80	3500K	GYPSUM WALL SURFACE	COORDINATE MOUNTING HEIGHT ABOVE BATHROOM MIRRORS.	YES
V4	H.E. WILLIAMS	WMA-4-L40/835-AF-DIM-UNV	120V	29.2	LED	80	3500K	GYPSUM WALL SURFACE	COORDINATE MOUNTING HEIGHT ABOVE BATHROOM MIRRORS.	YES
VT4	H.E. WILLIAMS	96-4-L40/835-SFRA-DIM-UNV	120V	30	LED	80	3500K	EXPOSED CEILING SUSPENDED	MOUNT 10'-0" AFF	YES
VT4E	H.E. WILLIAMS	96-4-L40/835-SFRA-DIM-UNV-EM/10W	120V	30	LED	80	3500K	EXPOSED CEILING SUSPENDED	MOUNT 10'-0" AFF	YES
VT8	H.E. WILLIAMS	96-8-L80/835-SFRA-DIM-UNV	120V	61	LED	80	3500K	EXPOSED CEILING SUSPENDED	MOUNT 10'-0" AFF	YES
VT8E	H.E. WILLIAMS	96-8-L80/835-SFRA-DIM-UNV-EM/10W	120V	61	LED	80	3500K	EXPOSED CEILING SUSPENDED	MOUNT 10'-0" AFF	YES
W2	BEGHELLI	HZCAS400-2-HT-LO-DIM-WT50-120/277V	120V	30	LED	90	5000K	GYPSUM WALL SURFACE		YES
W4	H.E. WILLIAMS	SLF-4-L26/835-HIA-DIM-UNV	120V	20.1	LED	80	3500K	INTERIOR WALL SURFACE		YES
WPA	B-K LIGHTING	DE-WM-LID-LCB-AL-SM-CD-DD-120-X103-X103-SP-SP-O10-09-09-11-11-WL00-WHP	120V	13	LED	80	3500K	EXTERIOR WALL SURFACE	MOUNT 16'-0" AFG; UP/DOWN LIGHTING	YES
WPB	B-K LIGHTING	DE-WM-LID-LCB-AL-SM-CD-DD-120-X103-____SP-___-O10-09-__-11-11-WL00-WHP	120V	13	LED	80	3500K	EXTERIOR WALL SURFACE	MOUNT 16'-0" AFG; UP LIGHTING ONLY, INLCUDE DOWN SHIELD	YES
WPCE	H.E. WILLIAMS	VWPH-L30/835-T3-SLV-SDGL-EM/10CEC-DIM-UNV	120V	27	LED	80	3500K	EXTERIOR WALL SURFACE	MOUNT 9'-0" AFG; TIE IN TO MINI-INVERTER	YES
XC	H.E. WILLIAMS	EXIT/EL-SF-R-CP-WHT-EM-SDT-D	120V	3.6	LED	---	---	GYPSUM / GRID CEILING SURFACE	UTILIZE CEILING MOUNTING	YES
XS	H.E. WILLIAMS	EXIT/EL-SF-R-CP-WHT-EM-SDT-D	120V	3.6	LED	---	---	GYPSUM WALL SURFACE	UTILIZE SIDE MOUNTING	YES
XW	H.E. WILLIAMS	EXIT/EL-SF-R-CP-WHT-EM-SDT-D	120V	3.6	LED	---	---	GYPSUM WALL SURFACE	UTILIZE WALL MOUNTING COORDINATE MOUNTING HEIGHTS ABOVE DOORWAYS AND BULKHEADS	YES

Lighting Space and Zones / Sequence of Operations / Low Voltage Switch Matrix

(Button Labels to be designated by owner during installation)

Space Type	Room Number	ZONE OF CONTROL Description	ZONE OF CONTROL Designator	CONTROL SCENARIOS: Manual On	Manual Off	Dimming	Multi-Level Control	Timeclock On	Timeclock Off	Occupancy Sensor On	Vacancy Sensor Off	Daylight Harvesting	Photo Sensor On	CONNECT TO NETWORKED ROOM CONTROLLER OR LIGHTING CONTROL PANEL: S1.1 (1-Button)	S1.2 (2-Button)	S1.3 (3-Button)	S1.4 (4-Button)	CONNECT TO NON-NETWORKED LOCAL ROOM CONTROL: S1.5 (4-Pole Toggle, Line Voltage)	S3.1 (3-Way Toggle, Line Voltage)	S4.1 (4-Way Toggle, Line Voltage)	Occ (Integral Sensor, Line Voltage)	Remarks
Classroom	118, 227	Teaching Wall	a																			
		Alternating Rows	b	X	X	X	X				X			X		X						
		Alternating Rows	c																			
Skills Lab	119, 120	Alternating Rows	a	X	X	X	X				X			X		X						
		Alternating Rows	b																			
Second Floor Lab	229, 230, 231			X	X	X					X			X	X							
Patient Bed / ICU	Typical			X	X						X										X	
Nurses' Station	231A			X	X						X										X	
Control / Debrief / Antechamber	Typical			X	X						X										X	
Office / Counsel	Typical			X	X						X			X								
Conference Room	108	Linear Fixtures	a	X	X	X	X				X			X		X						
		Can Fixtures	b																			
Circulation / Reception / Vestibule	Typical			X	X					X	X			X								
Lobby	100, 200	Second Floor Corridor	a																			
		Can Lights & Stair Linears	b	X	X	X	X			X	X	X		X								
		Globe Pendants	c																			
Conference Breakroom	109			X	X						X			X								
Second Floor Breakroom / Work Room	218, 219, 223			X	X						X										X	
Small Restroom	220, 221			X	X						X										X	
Large Restroom	Typical			X	X					X	X			X								
Stairwell	1000, 2008			X	X					X	X			X								
Elevator	---			X	X													X				
Janitor	116, 225			X	X													X				
Small Storage	231G, 119A			X	X													X				
Large Storage	121, 124			X	X						X			X								
IT	222			X	X						X										X	
Fire Riser	125			X	X														X			
Mechanical / Electrical	122, 123, 228			X	X													X				
Exterior Lighting	Exterior							X	X				X									

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garick, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher M. Hall, FL PE 101
Caleb W. Leonard, FL PE 81782

Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**

Dated 08.29.2025

MECHANICAL, LIGHTING, & MATRIX SCHEDULES

E-611

MDP

MAIN 1200 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; INTEGRAL SMART METER

A.I.C. RATING 65kA
NEMA 1

LOCATION Space 107
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1				--	44484 VA								2
3	400A FUTURE PROVISION (SPACE ONLY)	--	3			--	42780 VA			3	400 A	PANEL M2	4
5								--	44154 VA				6
7				19301 VA	13994 VA								8
9	PANEL M1A	225 A	3			19301 VA	14150 VA			3	225 A	PANEL M1B	10
11								17538 VA	14360 VA				12
13				10620 VA	9180 VA								14
15	PANEL P1A	225 A	3			12260 VA	8720 VA			3	225 A	PANEL P1B	16
17								9420 VA	6360 VA				18
19				25270 VA	26270 VA								20
21	OAU-1	175 A	3			25270 VA	26270 VA			3	175 A	OAU-2	22
23								25270 VA	26270 VA				24
25				--	--								26
27	225A FUTURE PROVISION (SPACE ONLY)	--	3			--	--			3	--	225A FUTURE PROVISION (SPACE ONLY)	28
29								--	--				30
31				3297 VA	--								32
33	PANEL L1	60 A	3			1258 VA	--			3	--	100A FUTURE PROVISION (SPACE ONLY)	34
35								2588 VA	--				36
37				--	0 VA								38
39	100A FUTURE PROVISION (SPACE ONLY)	--	3			--	0 VA			3	60 A	SURGE PROTECTIVE DEVICE (SPD)	40
41								--	0 VA				42
		POWER/PHASE		152414 VA		150008 VA		145959 VA					
		AMPS/PHASE		1275 A		1255 A		1216 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	60757 VA	100.00%	60757 VA	**CONNECTED POWER** 448382 VA
Lighting	15089 VA	100.00%	15089 VA	**DEMAND POWER** 392692 VA
HVAC	251156 VA	100.00%	251156 VA	**CONNECTED AMPS** 1245 A
Receptacle	121380 VA	54.12%	65690 VA	**DEMAND AMPS** 1090 A

NOTES:

M1A

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 35k
NEMA 3R

LOCATION
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1				2219 VA	2219 VA								2
3	HP-1 MODULE 1	40 A	3			2219 VA	2219 VA			3	40 A	HP-1 MODULE 2	4
5								2219 VA	2219 VA				6
7				2773 VA	2773 VA								8
9	HP-2 MODULE 1	60 A	3			2773 VA	2773 VA			3	60 A	HP-2 MODULE 2	10
11								2773 VA	2773 VA				12
13				3038 VA	--					1	--	SPACE ONLY	14
15	AC-1	60 A	3			3038 VA	--			1	--	SPACE ONLY	16
17								3038 VA	--	1	--	SPACE ONLY	18
19				2258 VA	2258 VA								20
21	OACU-1	30 A	3			2258 VA	2258 VA			3	30 A	OACU-2	22
23								2258 VA	2258 VA				24
25	MHP-1 & WM-1.1	30 A	2	800 VA	963 VA								26
27						800 VA	963 VA			2	30 A	MHP-2 & WM-2.1	28
29	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	30
31	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	32
33	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	34
35	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	36
37	SPACE ONLY	--	1	--	0 VA								38
39	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	40
41	SPACE ONLY	--	1					--	0 VA				42
		POWER/PHASE		19301 VA		19301 VA		17538 VA					
		AMPS/PHASE		163 A		163 A		146 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
HVAC	56139 VA	100.00%	56139 VA	**CONNECTED POWER** 56139 VA
				DEMAND POWER 56139 VA
				CONNECTED AMPS 156 A
				DEMAND AMPS 156 A

NOTES:

M1B

MAIN 200 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 35k
NEMA 1

LOCATION Space 19
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	BATTERY CHARGER - FIRE RISER 125	20 A	1	200 VA	1176 VA					1	20 A	EF-1.1	2
3	HOT START CIRCUIT - FIRE RISER 125	20 A	1			200 VA	528 VA			1	15 A	EF-1.2	4
5	AUTOMATIC RESTROOM FIXTURES - 1ST FLOOR	15 A	1					720 VA	960 VA	1	20 A	ELEVATOR SUMP PUMP	6
7	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	8
9	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	10
11	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	12
13	AHU-1.1	15 A	2	343 VA	804 VA								14
15						343 VA	804 VA			2	15 A	AHU-1.2	16
17	AHU-1.3	15 A	2					250 VA	250 VA				18
19				250 VA	250 VA					2	15 A	AHU-1.4	20
21	AHU-1.5	15 A	2			343 VA	468 VA						22
23								343 VA	468 VA	2	15 A	AHU-1.6	24
25	AHU-1.7	15 A	2	250 VA	343 VA								26
27						250 VA	343 VA			2	15 A	AHU-1.8	28
29	AHU-1.9	15 A	2					250 VA	250 VA				30
31				250 VA	250 VA					2	15 A	AHU-1.10	32
33	BC-1	15 A	2			496 VA	496 VA						34
35								496 VA	496 VA	2	15 A	BC-2	36
37	VC-1	20 A	3	937 VA	576 VA								38
39						937 VA	576 VA			3	15 A	JOCKEY PUMP	40
41								937 VA	576 VA				42
43	ELEVATOR*	60 A	3	3242 VA	5125 VA								44
45						3242 VA	5125 VA			3	35 A	EWH-1	46
47								3242 VA	5125 VA				48
49	SPACE ONLY	--	1	--	0 VA								50
51	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	52
53	SPACE ONLY	--	1					--	0 VA				54
		POWER/PHASE		13994 VA		14150 VA		14360 VA					
		AMPS/PHASE		117 A		118 A		120 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	10447 VA	100.00%	10447 VA	**CONNECTED POWER** 42504 VA
HVAC	31097 VA	100.00%	31097 VA	**DEMAND POWER** 42504 VA
Receptacle	960 VA	100.00%	960 VA	**CONNECTED AMPS** 118 A
				DEMAND AMPS 118 A

NOTES:

P1A

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; TWO EQUAL SECTIONS

A.I.C. RATING 35k
NEMA 1

LOCATION Space 107
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - STAIRS 100A	20 A	1	900 VA	540 VA					1	20 A	REC - LOBBY 100	2
3	REC - COMMON 100C, STAIRS 100D	20 A	1			720 VA	720 VA			1	20 A	REC - LOBBY 100	4
5	REC - DRINKING FOUNTAIN CIRC. 100B	20 A	1					180 VA	1080 VA	1	20 A	REC - COMMON 100C	6
7	REC - COPIER VEST. 101	20 A	1	360 VA	900 VA					1	20 A	REC - CIRC. 100B, RECEPT/ CIRC. 102A	8
9	REC - DRINKING FOUNTAIN VEST. 101	20 A	1			300 VA	1080 VA			1	20 A	REC - RECEPTION 102	10
11	REC - FAAP	20 A	1					360 VA	1080 VA	1	20 A	REC - OFFICE 103	12
13	REC - OFFICE 104	20 A	1	900 VA	720 VA					1	20 A	REC - OFFICE 105	14
15	REC - OFFICE 106	20 A	1			720 VA	720 VA			1	20 A	REC - OFFICE 112	16
17	REC - OFFICE 113	20 A	1					720 VA	900 VA	1	20 A	REC - OFFICE 114	18
19	REC - WORK ROOM 107, RECEPT/ CIRC. 102A, I.T. 111	20 A	1	1080 VA	900 VA					1	20 A	REC - CONFERENCE ROOM 108	20
21	REC - CONFERENCE ROOM 108	20 A	1			900 VA	180 VA			1	20 A	REC - COPIER WORK ROOM 107	22
23	REC - RR 110, MEN'S RR 117, WOMEN'S 115, JAN. 116	20 A	1					1080 VA	1080 VA	1	20 A	REC - BREAKROOM 109	24
25	REC - STG. 1 121	20 A	1	900 VA	180 VA					1	20 A	REC - MICROWAVE BREAKROOM 109	26
27	REC - REFRIG BREAKROOM 109	20 A	1			180 VA	360 VA			1	20 A	REC - MECH. 122, ELEC. 123	28
29	REC - MECH. 122	20 A	1					180 VA	720 VA	1	20 A	REC - MECH. 122	30
31	REC - STG. 2 124	20 A	1	900 VA	1080 VA					1	20 A	REC - EXTERIOR NORTH, WEST, AND EAST	32
33	REC - STG. 2 124	20 A	1			900 VA	180 VA			1	20 A	REC - EMS/DDC SYSTEM CONNECTION	34
35	ICE MAKER - STG. 2 124	20 A	1					960 VA	1080 VA	1	20 A	REC - EXTERIOR SOUTH, WEST, AND EAST	36
37	WASHER - STG. 2 124	20 A	1	180 VA	1080 VA					1	20 A	REC - STG. 2 139	38
39	DRYER - STG. 2 124	30 A	2			4500 VA	800 VA			1	20 A	RECEPTACLE SPACE 20	40
41								0 VA	0 VA	2	30 A	ROLL UP DOOR - STG. 2 124	42
43	SPARE	20 A	1	0 VA	0 VA								44
45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	46
47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	50
51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	56
57	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	58
59	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	60
61	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	62
63	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	64
65	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	66
67	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	68
69	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	70
71	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	72
73	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	74
75	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	76
77	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	78
79	SPACE ONLY	--	1										80
81	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	82
83	SPACE ONLY	--	1					--	0 VA				84
		POWER/PHASE		10620 VA		12260 VA		9420 VA					
		AMPS/PHASE		90 A		104 A		79 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	0 VA	0.00%	0 VA	**CONNECTED POWER** 32300 VA
Receptacle	32300 VA	65.48%	21150 VA	**DEMAND POWER** 21150 VA
				CONNECTED AMPS 90 A
				DEMAND AMPS 59 A

NOTES:

P1B

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; TWO EQUAL SECTIONS

A.I.C. RATING 35k
NEMA 1

LOCATION Space 107
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - CLASSROOM 118	20 A	1	180 VA	180 VA					1	20 A	REC - CLASSROOM 118	2
3	REC - CLASSROOM 118	20 A	1			180 VA	180 VA			1	20 A	REC - CLASSROOM 118	4
5	REC - CLASSROOM 118	20 A	1					180 VA	180 VA	1	20 A	REC - CLASSROOM 118	6
7	REC - CLASSROOM 118	20 A	1	180 VA	180 VA					1	20 A	REC - CLASSROOM 118	8
9	REC - CLASSROOM 118	20 A	1			180 VA	180 VA			1	20 A	REC - CLASSROOM 118	10
11	REC - CLASSROOM 118	20 A	1					180 VA	180 VA	1	20 A	REC - CLASSROOM 118	12
13	REC - CLASSROOM 118	20 A	1	180 VA	180 VA					1	20 A	REC - CLASSROOM 118	14
15	REC - CLASSROOM 118	20 A	1			1260 VA	540 VA			1	20 A	REC - CLASSROOM 118	16
17	REC - SKILLS LAB 119	20 A	1					1560 VA	360 VA	1	20 A	REC - CEILING - CLASSROOM 118	18
19	REC - SKILLS LAB 119	20 A	1	1320 VA	540 VA					1	20 A	REC - SKILLS LAB 2 119	20
21	REC - SKILLS LAB 119	20 A	1			1140 VA	1560 VA			1	20 A	REC - SKILLS LAB 119	22
23	REC - CEILING - SKILLS LAB 119	20 A	1					180 VA	1560 VA	1	20 A	REC - SKILLS LAB 119	24
25	REC - SKILLS LAB 120	20 A	1	1560 VA	1560 VA					1	20 A	REC - SKILLS LAB 119	26
27	REC - SKILLS LAB 120	20 A	1			1560 VA	1560 VA			1	20 A	REC - SKILLS LAB 120	28
29	REC - SKILLS LAB 120	20 A	1					720 VA	960 VA	1	20 A	REC - SKILLS LAB 120	30
31	REC - SKILLS LAB 120	20 A	1	1560 VA	1560 VA					1	20 A	REC - SKILLS LAB 120	32
33	REC - CEILING - SKILLS LAB 120	20 A	1			180 VA	200 VA			1	20 A	ELEV .00	34
35	REC - ELEV. 00	20 A	1					300 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	44
45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	46
47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	50
51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	56
57	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	58
59	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	60
61	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	62
63	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	64
65	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	66
67	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	68
69	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	70
71	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	72
73	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	74
75	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	76
77	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	78
79	SPACE ONLY	--	1	--	0 VA								80
81	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	82
83	SPACE ONLY	--	1					--	0 VA				84
		POWER/PHASE		9180 VA		8720 VA		6360 VA					
		AMPS/PHASE		80 A		76 A		53 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Lighting	200 VA	100.00%	200 VA	**CONNECTED POWER** 24260 VA
Receptacle	24060 VA	70.78%	17030 VA	**DEMAND POWER** 17230 VA
				CONNECTED AMPS 67 A
				DEMAND AMPS 48 A

NOTES:
*PROVIDE SHUNT TRIP BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION, EQUIVALENT TO RK1 FUSES, AND WITH TWO ADDITIONAL CONTACTS.

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG Engineers
621 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garcia, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher M. Hall, FL PE 77101
Caleb W. Leonard, FL PE 81782
Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number **25004**
Dated 08.29.2025

PANEL SCHEDULES

E-612

L1

MAIN 60 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 22k
NEMA 1

LOCATION Space 107
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	LTG - COMMON 100C, SKILLS LAB 119 & 120	20 A	1	1672 VA	1625 VA					1	20 A	LTG - LOBBY 100, CLASSROOM 118	2
3	LTG - MECH 122, ELEC 123, WEST STORAGE ROOMS	20 A	1			1076 VA	183 VA			1	20 A	LTG - STAIRS 100D, 200B	4
5	LTG - CIRC 100B, VEST 101, RESTROOMS	20 A	1					1842 VA	746 VA	1	20 A	LTG - EXTERIOR	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	20
21	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	22
23	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	24
25	SPACE ONLY	--	1	--	0 VA								26
27	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	28
29	SPACE ONLY	--	1					--	0 VA				30
		POWER/PHASE		3297 VA		1258 VA		2588 VA					
		AMPS/PHASE		29 A		10 A		23 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Lighting	7143 VA	100.00%	7143 VA	**CONNECTED POWER** 7143 VA
				DEMAND POWER 7143 VA
				CONNECTED AMPS 20 A
				DEMAND AMPS 20 A

NOTES:

M2

MAIN 400 A MCB
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 42k
NEMA 1

LOCATION Space 76
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	AHU-2.1	15 A	2	250 VA	250 VA					2	15 A	AHU-2.2	2
3						250 VA	250 VA						4
5	AHU-2.3	15 A	2					250 VA	343 VA	2	15 A	AHU-2.4	6
7				250 VA	343 VA								8
9	AHU-2.5	15 A	2			250 VA	343 VA			2	15 A	AHU-2.6	10
11								250 VA	343 VA				12
13	AHU-2.7	15 A	2	250 VA	468 VA					2	15 A	AHU-2.8	14
15						250 VA	468 VA						16
17	AHU-2.9	15 A	2					804 VA	250 VA	2	15 A	AHU-2.10	18
19				804 VA	250 VA								20
21	AHU-2.11	15 A	2			468 VA	300 VA			1	15 A	MED GAS SOLENOID VALVES	22
23								468 VA	1200 VA	1	15 A	AUTOMATIC RESTROOM FIXTURES - 2ND FLOOR	24
25	SMOKE DAMPER	15 A	1	100 VA	528 VA					1	15 A	EF-2.1	26
27	SPACE ONLY	--	1			--	528 VA			1	15 A	EF-2.2	28
29	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	30
31	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	32
33	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	34
35	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	36
37	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	38
39	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	40
41	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	42
43	SPACE ONLY	--	1	--	0 VA								44
45	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	46
47	SPACE ONLY	--	1					--	0 VA				48
49				2923 VA	6250 VA								50
51	L2	60 A	3			3185 VA	6250 VA			3	45 A	EWH-2	52
53								1637 VA	6250 VA				54
55				17220 VA	14600 VA								56
57	P2A	225 A	3			15660 VA	14580 VA			3	225 A	P2B	58
59								15060 VA	17300 VA				60
		POWER/PHASE		44484 VA		42780 VA		44154 VA					
		AMPS/PHASE		372 A		357 A		370 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	50310 VA	100.00%	50310 VA	**CONNECTED POWER** 131417 VA
Lighting	7745 VA	100.00%	7745 VA	**DEMAND POWER** 104387 VA
HVAC	9302 VA	100.00%	9302 VA	**CONNECTED AMPS** 365 A
Receptacle	64060 VA	57.81%	37030 VA	**DEMAND AMPS** 290 A

NOTES:

L2

MAIN 60 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; TWO EQUAL SECTIONS

A.I.C. RATING 10k
NEMA 1

LOCATION Space 76
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	LTG - CIRC 200C, LAB 230, LAB 231	20 A	1	1405 VA	1518 VA					1	20 A	LTG - MECH/ELEC 228, SIM LAB 229	2
3	LTG - LOBBY 200	20 A	1			1910 VA	1275 VA			1	20 A	LTG - CIRC 200A, RESTROOMS, WORKROOM	4
5	LTG - OFFICES 203 THRU 217	20 A	1					992 VA	645 VA	1	20 A	LTG - COMMON 200, CLASSROOM 227,	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	20
21	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	22
23	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	24
25	SPACE ONLY	--	1	--	0 VA								26
27	SPACE ONLY	--	1			--	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	28
29	SPACE ONLY	--	1					--	0 VA				30
		POWER/PHASE		2923 VA		3185 VA		1637 VA					
		AMPS/PHASE		26 A		28 A		14 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Lighting	7745 VA	100.00%	7745 VA	**CONNECTED POWER** 7745 VA
				DEMAND POWER 7745 VA
				CONNECTED AMPS 21 A
				DEMAND AMPS 21 A

NOTES:

P2A

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; TWO EQUAL SECTIONS

A.I.C. RATING 22k
NEMA 1

LOCATION Space 76
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - CIRC 200C	20 A	1	1080 VA	720 VA					1	20 A	REC - MECH/ELEC 228	2
3	REC - STAIRS 200B	20 A	1			360 VA	900 VA			1	20 A	REC - MECH/ELEC 228	4
5	REC - MECH/ELEC 228	20 A	1					180 VA	1320 VA	1	20 A	REC - PATIENT BED 3 229B	6
7	REC - MECH/ELEC 228	20 A	1	720 VA	1080 VA					1	20 A	REC - CTRL 3 229C, CTRL 4 229D	8
9	REC - SIM LAB 229	20 A	1			1080 VA	900 VA			1	20 A	REC - DEBRIEF 2 229F	10
11	REC - PATIENT BED 4 229E	20 A	1					1500 VA	720 VA	1	20 A	REC - CIRC 232, ANTI 229H, STG 231G	12
13	REC - DEBRIEF 1 229G	20 A	1	720 VA	900 VA					1	20 A	REC - CTRL 1 229J, CTRL 2 229K	14
15	REC - PATIENT BED 1 229I	20 A	1			1500 VA	1080 VA			1	20 A	REC - ICU LAB 231	16
17	REC - CEILING - STUDENT SUCCESS LAB 230	20 A	1					180 VA	360 VA	1	20 A	EQUIP - STUDENT SUCCESS LAB 230	18
19	REC - PATIEN BED 2 229L	20 A	1	1320 VA	900 VA					1	20 A	REC - COUNSEL 1 230A	20
21	REC - STUDENT RESOURCE LAB 230	20 A	1			1440 VA	900 VA			1	20 A	REC - COUNSEL 2 230B	22
23	REC - STUDENT RESOURCE LAB 230	20 A	1					1080 VA	180 VA	1	20 A	REC - VR LAB 230C	24
25	REC - STUDENT RESOURCE LAB 230	20 A	1	1560 VA	180 VA					1	20 A	REC - VR LAB 230C	26
27	REC - NURSE STATION 231A	20 A	1			900 VA	180 VA			1	20 A	REC - VR LAB 230C	28
29	REC - NURSE STATION 231A	20 A	1					1080 VA	180 VA	1	20 A	REC - VR LAB 230C	30
31	REC - SIM LAB 229	20 A	1	1080 VA	180 VA					1	20 A	REC - CEILING - SIM LAB 229	32
33	REC - ICU 231A	20 A	1			960 VA	960 VA			1	20 A	REC - ICU 231B	34
35	REC - ICU 231C	20 A	1					1140 VA	1140 VA	1	20 A	REC - ICU 231D	36
37	REC - ICU 231E	20 A	1	1140 VA	1140 VA					1	20 A	REC - ICU 231F	38
39	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	44
45	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	46
47	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	50
51	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	56
57	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	58
59	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	60
61	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	62
63	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	64
65	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	66
67	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	68
69	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	70
71	SPACE ONLY	--	1					--	1500 VA				72
73	LOBBY SUN SHADE #1	30 A	2	1500 VA	1500 VA					2	30 A	LOBBY SUN SHADE #2	74
75						1500 VA	1500 VA						76
77	LOBBY SUN SHADE #3	30 A	2					1500 VA	1500 VA	2	30 A	LOBBY SUN SHADE #4	78
79				1500 VA	0 VA								80
81	LOBBY SUN SHADE #5	30 A	2			1500 VA	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	82
83								1500 VA	0 VA				84
		POWER/PHASE		17220 VA		15660 VA		15060 VA					
		AMPS/PHASE		144 A		131 A		126 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	15360 VA	100.00%	15360 VA	**CONNECTED POWER** 47940 VA
Receptacle	32580 VA	65.35%	21290 VA	**DEMAND POWER** 36650 VA
				CONNECTED AMPS 133 A
				DEMAND AMPS 102 A

NOTES:

P2B

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS; TWO EQUAL SECTIONS

A.I.C. RATING 22k
NEMA 1

LOCATION Space 76
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - OFFICE 217	20 A	1	900 VA	900 VA					1	20 A	REC - OFFICE 216	2
3	REC - OFFICE 215	20 A	1			900 VA	900 VA			1	20 A	REC - OFFICE 214	4
5	REC - OFFICE 213	20 A	1					900 VA	900 VA	1	20 A	REC - OFFICE 212	6
7	REC - OFFICE 211	20 A	1	900 VA	540 VA					1	20 A	REC - OFFICE 210	8
9	REC - OFFICE 209	20 A	1			900 VA	720 VA			1	20 A	REC - OFFICE 210	10
11	REC - OFFICE 208	20 A	1					1080 VA	1080 VA	1	20 A	REC - OFFICE 207	12
13	REC - OFFICE 206	20 A	1	1080 VA	1080 VA					1	20 A	REC - OFFICE 205	14
15	REC - OFFICE 204	20 A	1			1080 VA	1080 VA			1	20 A	REC - OFFICE 203	16
17	REC - RR 220, RR 221	20 A	1					360 VA	1080 VA	1	20 A	REC - RR 224, RR 225	18
19	REC - WORK ROOM 223	20 A	1	900 VA	720 VA					1	20 A	REC - VEST 201	20
21	REC - BREAKROOM 218	20 A	1			540 VA	180 VA			1	20 A	REC - MICROWAVE - BREAKROOM 218	22
23	REC - REFRIGERATOR - BREAKROOM 218	20 A	1					180 VA	540 VA	1	20 A	REC - CIRC 200A	24
25	REC - COMMON SPACE 200	20 A	1	900 VA	540 VA					1	20 A	REC - CIRC 202	26
27	REC - CLASSROOM 227	20 A	1			900 VA	1080 VA			1	20 A	REC - CLASSROOM 227	28
29	REC - CLASSROOM 227	20 A	1					900 VA	1260 VA	1	20 A	REC - CLASSROOM 227	30
31	REC - DF - CIRC 200A	20 A	1	180 VA	360 VA					1	20 A	REC - COPIER - VEST 201	32
33	REC - VENDING - STUDENT BREAK 219	20 A	1			500 VA	360 VA			1	20 A	REC - STUDENT BREAK 219	34
35	REC - FACP - IT 222 *	20 A	1					180 VA	500 VA	1	20 A	REC - VENDING - STUDENT BREAK 219	36
37	REC - IT 222	20 A	1	180 VA	360 VA					1	20 A	REC - CEILING - CLASSROOM 227	38
39	REC - IT 222	20 A	1			180 VA	200 VA			1	30 A	SPECIAL REC - IT 222	40
41	REC - IT 222	20 A	1					1800 VA	180 VA	1	20 A	REC - IT 222	42
43	REC - IT 222	20 A	1	180 VA	180 VA					1	20 A	REC - IT 222	44
45	REC - IT 222	20 A	1			180 VA	180 VA			1	20 A	REC - IT 222	46
47	REC - IT 222	20 A	1					180 VA	180 VA	1	20 A	REC - IT 222	48
49	SPECIAL REC - IT 222	30 A	1	200 VA									50
51	SPECIAL REC - IT 222	30 A	1			200 VA	0 VA			1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	56
57	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	58
59	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	62
63	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	64
65	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	66
67	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	68
69	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	70
71	SPACE ONLY	--	1					--	1500 VA				72
73	LOBBY SUN SHADE #6	20 A	2	1500 VA	1500 VA					2	20 A	LOBBY SUN SHADE #7	74
75						1500 VA	1500 VA						76
77	LOBBY SUN SHADE #8	20 A	2					1500 VA	1500 VA	2	20 A	LOBBY SUN SHADE #9	78
79				1500 VA	0 VA								80
81	LOBBY SUN SHADE #10	20 A	2			1500 VA	0 VA			3	30 A	SURGE PROTECTIVE DEVICE (SPD)	82
83								1500 VA	0 VA				84
		POWER/PHASE		14600 VA		14580 VA		17300 VA					
		AMPS/PHASE		122 A		122 A		144 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS
Power	15000 VA	100.00%	15000 VA	**CONNECTED POWER** 46480 VA
Receptacle	31480 VA	65.88%	20740 VA	**DEMAND POWER** 35740 VA
				CONNECTED AMPS 129 A
				DEMAND AMPS 99 A

NOTES:
* PROVIDE "RED" BREAKER LABELED "FIRE ALARM CIRCUIT", CAPABLE OF BEING LOCKED IN THE 'ON' POSITION. PER NFPA-70 - ARTICLE 760.121(B)

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DAG Architects
AR0017640
455 Harrison Avenue
Suite I
Panama City, Florida 32401
850.387.1671
www.dagarchitects.com

NOT FOR CONSTRUCTION

Digital Signature

BID DOCUMENTS

HG Engineers
821 N. Tyndall Pkwy, Suite C
Panama City, Florida, 32404
E-mail: office@hgengineers.com
Ph: 850.243.8723
FL. Authorization No.00006680
Christopher A. Garick, FL PE 53924
Thomas A. Alexander, FL PE 73172
Christopher D. Hall, FL PE 97102
Caleb W. Leonard, FL PE 97182

Job No. 24113

GULF COAST STATE COLLEGE

GCSC NURSING SIM. CENTER

5230 US-98
PANAMA CITY, FL, 32401

REVISIONS

NO.	DESCRIPTION	DATE

Project Number	**25004**
Dated	08.29.2025

PANEL SCHEDULES

E-613