

NEW FIRE STATION

GRAND RIDGE FIRE DEPARTMENT

FOR:

THE TOWN OF GRAND RIDGE, FLORIDA

PROJECT DIRECTORY

OWNER	■ TOWN OF GRANDRIDGE 2086 PORTER AVE. GRAND RIDGE, FLORIDA (850) 592-4621
PROGRAM MANAGER	■ D.H.M./MELVIN ENGINEERING 4428 LAFAYETTE ST. MARIANNA, FLORIDA (850) 482-3045
ARCHITECT OF RECORD	■ DONOFRO ARCHITECTS 2910 CALEDONIA ST. MARIANNA, FLORIDA (850) 482-5261
CIVIL ENGINEER	■ D.H.M./MELVIN ENGINEERING 4428 LAFAYETTE ST. MARIANNA, FLORIDA (850) 482-3045
STRUCTURAL ENGINEER	■ D.H.M./MELVIN ENGINEERING 2541-1 BARRINGTON CIRCLE TALLAHASSEE, FLORIDA (850) 671-7221
MECHANICAL ENGINEER	■ WATFORD ENGINEERING INC. 4471 CLINTON ST. MARIANNA, FLORIDA (850) 526-3447
ELECTRICAL ENGINEER	■ WATFORD ENGINEERING INC. 311 N COLLEGE ST. AUBURN, ALABAMA (334) 209-0212

PROJECT INFORMATION

OCCUPANCY CLASSIFICATION — MODERATE HAZARD STORAGE

CONSTRUCTION TYPE — TYPE II (2) B - NON COMBUSTIBLE

BUILDING SQUARE FOOTAGE — 8,889 S.F.

OCCUPANT LOAD — APPARATUS BAYS - 6,385 S.F. @ 1 PERSON PER 200 S.F. = 31 PERSONS
OFFICE/ADMIN. AREA - 2,504 S.F. @ 1 PERSON/100 S.F. OR 25 PERSONS

EXIT ACCESS TRAVEL DISTANCE — MAX 200' (WITH OUT SPRINKLER SYSTEM) COMPLY

MIN. # OF EXITS — MIN. 2 REQUIRED / COMPLY

AUTOMATIC FIRE PROTECTION — NOT REQUIRED / NOT PROVIDED
SPRINKLER SYSTEM

FIRE ALARM SYSTEM — NOT REQUIRED / PROVIDED

PORTABLE FIRE EXTINGUISHERS — REQUIRED / PROVIDED

CORRIDOR RATING — NOT REQUIRED / NOT PROVIDED

PROJECT DESIGN LOADS

ROOF LIVE LOAD — 20 P.S.F.

WIND LOAD CRITERIA — BUILDING RISK CATEGORY - IV
BASIC WIND SPEED - 140 MPH (V) ULT.
EXPOSURE CATEGORY - EXPOSURE (C)
INTERNAL PRESSURE COEFFICIENT - 0.18 (GPCI)

P.E.M.B. SUPPLEMENTAL DESIGN CRITERIA

ROOF LIVE LOAD - 20 PSF
DEAD LOAD - WEIGHT OF STRUCTURE
COLLATERAL LOAD - 5 PSF
CONCENTRATED LOADS - MECHANICAL EQUIPMENT, ECT.
LATERAL FRAME DRIFT - H/100
WALL GIRT DEFLECTION - L/240 OR 1-1/2" MAX
COLUMN SHAFT DEFLECTION - L/240

APPLICABLE CODES

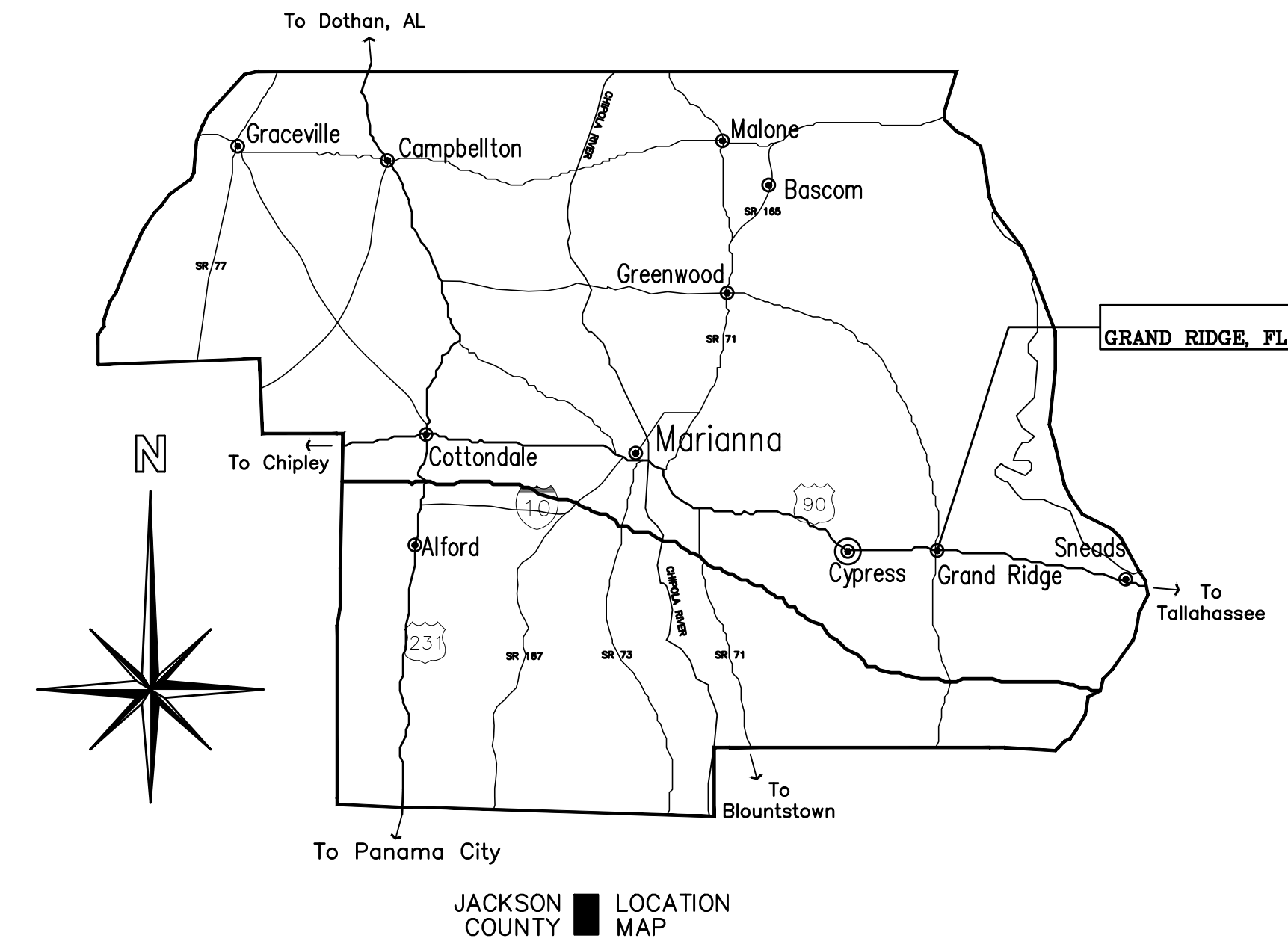
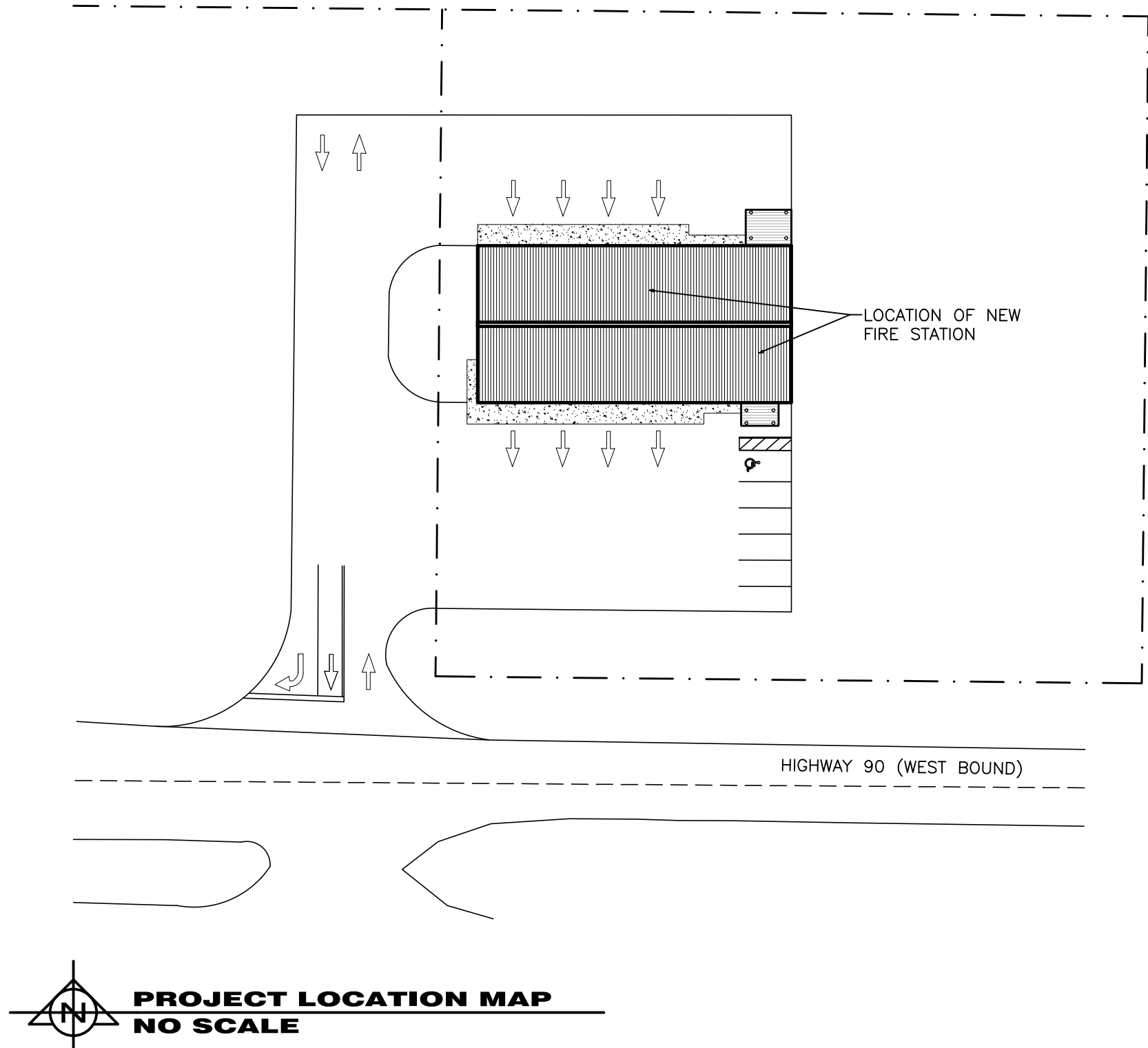
2023 FLORIDA BUILDING CODE ; F.B.C. EIGHTH EDITION

2023 F.F.P.C. ; EIGHTH EDITION

TOWN OFFICIALS

MAYOR	■ CHRIS HARRELL
COUNCILWOMAN	■ KIM APPLEWHITE
COUNCILMAN	■ TIM BAGGETT
COUNCILWOMAN	■ TRACY HAGAN
COUNCILMAN	■ CHRIS WRIGHT JR.
TOWN MANAGER	■ JUSTIN BRANCH
TOWN CLERK	■ AMANDA APPLEWHITE
ATTORNEY	■ CLAY MILTON

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	C-1.2	EXCAVATION NOTES & DETAILS
	C-2.0	SITE & DIMENSION PLAN
	C-2.1	CONCRETE SLAB CONSTRUCTION JOINT PLAN
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	E-1.1	ELECTRICAL POWER & LIGHTING PLAN
	E-1.2	FIRE ALARM PLAN

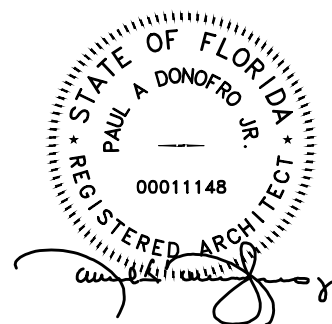


D.H.M./MELVIN ENGINEERING
4428 LAFAYETTE MARIANNA, FLORIDA (850) 482-3045

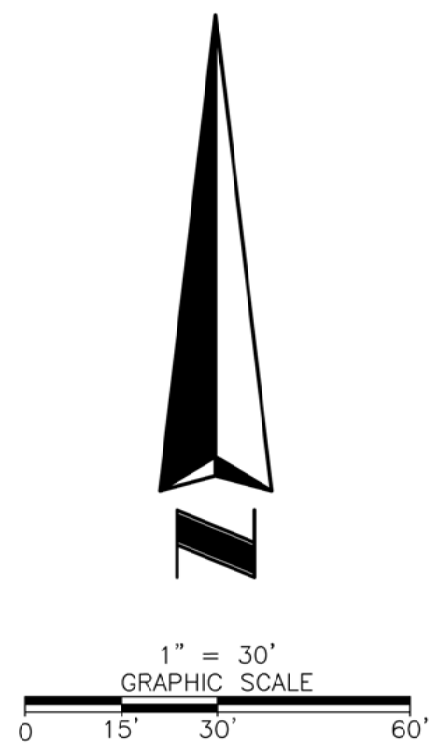
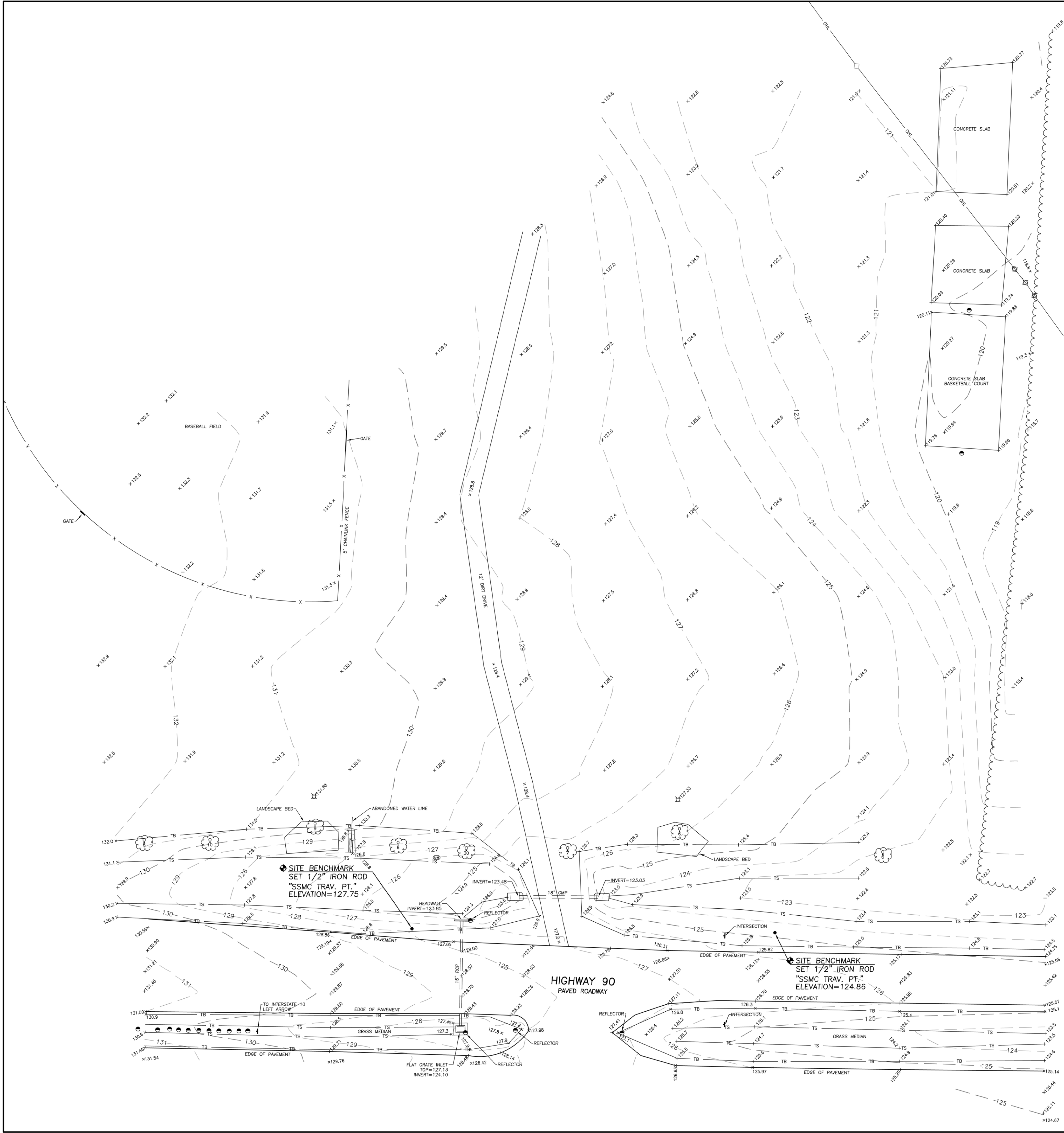


DONOFRO ARCHITECTS
2910 CALEDONIA MARIANNA, FLORIDA (850) 482-5261

RELEASED FOR BIDS:
10.09.2025



JOB NUMBER: M-2024-12
DATE: AUGUST 13TH, 2025
CONSTRUCTION SET # _____



LEGEND & ABBREVIATIONS:

- | | | | |
|---|----------------------------|----------|------------------------------------------------|
| ◆ | = COMBINATION UTILITY POLE | -X- | = FENCE |
| ● | = IRON ROD | ~ | = TREE/HEDGE LINE |
| ⋈ | = LIGHT POLE | LB | = LICENSED BUSINESS |
| ◇ | = UTILITY POLE | RCP | = REINFORCED CONCRETE PIPE |
| + | = TRAFFIC SIGN | CMP | = CORRUGATED METAL PIPE |
| ⊙ | = UTILITY MARKER | -WL- | = WATER LINE |
| ● | = POST/BOLLARD | -TB- | = TOP OF BANK |
| | | -TS- | = TOE OF SLOPE |
| | | -OHL- | = OVERHEAD UTILITY LINE |
| | | TRAV.PT. | = TRAVERSE POINT |
| | | SSMC | = SOUTHEASTERN SURVEYING & MAPPING CORPORATION |
- SIZE SHOWN IS TRUNK DIAMETER IN INCHES MEASURED AT CHEST HEIGHT
- = TREE
O = OAK

SURVEYOR'S REPORT:

- UTILITY LOCATIONS IF SHOWN HEREON ARE BASED ON FIELD LOCATION OF MARKINGS BY UTILITY COMPANY REPRESENTATIVES, SURFACE FEATURES AND CONSTRUCTION PLANS FURNISHED TO THE SURVEYOR. ADDITIONAL SUB-SURFACE UTILITIES MAY EXIST THAT HAVE NOT BEEN FIELD LOCATED.
- EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
- MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATION CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF.
- THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.
- UNDERGROUND FOUNDATIONS HAVE NOT BEEN LOCATED.
- SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, AND IF SHOWN HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE 5J-17.062 AND FLORIDA STATUTE 472.025.
- FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- HORIZONTAL AND VERTICAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO NORTH AMERICAN DATUM, (NAD83), 2011 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, AND ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION STATIONS: "53-01-A156", ELEVATION 133.14'; & "53-01-A160", ELEVATION 124.37', NAVD88. THE CONTOUR INTERVAL IS 1 FOOT. DISTANCES SHOWN ARE GRID DISTANCES.
- THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
- IMPROVEMENTS & TOPOGRAPHIC FEATURES SHOWN HEREON ARE LIMITED TO AREAS PER SPECIFIC INSTRUCTIONS OF THE CLIENT.

NOTICE OF LIABILITY:

THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.

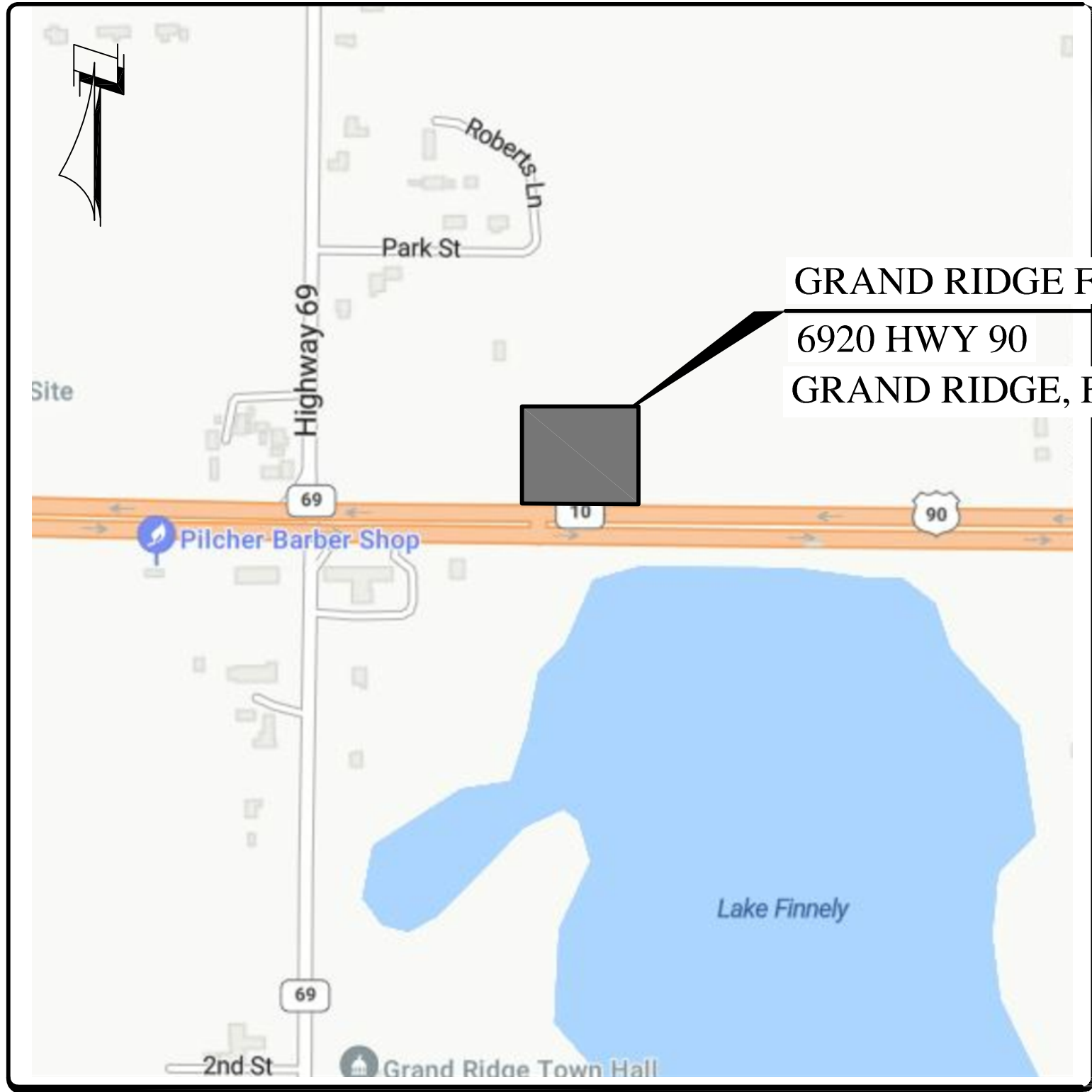
SOUTHEASTERN SURVEYING AND MAPPING CORPORATION Chipley, Florida 32428 (850) 638-0790 e-mail: info@southesternsurveying.com Certification Number: 152106		SSMC SUE • SURVEY • GIS	
TOPOGRAPHIC SURVEY		BY	
HIGHWAY 90		REVISION	
GRAND RIDGE, FLORIDA		DATE	
Project:		SHEET NUMBER 1 OF 1	
Field Date: 8/29/24		NOT VALID WITHOUT SHEETS 1 THROUGH 1	
DHW, MELVIN ENGINEERING		Scale: 1" = 30'	
Confirmed for:		ES	
DRAWING NUMBER		1 OF 1	
71354001			
SHEET NUMBER			

SITE CONSTRUCTION PLANS
FOR:

NEW FIRE STATION

PREPARED
FOR:

TOWN OF GRAND RIDGE
2086 PORTER AVENUE
GRAND RIDGE, FL 32442



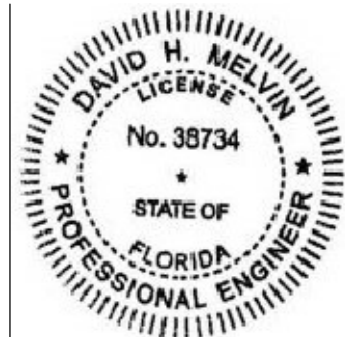
LOCATION MAP
GRAND RIDGE, FLORIDA
SECTION 27, TOWNSHIP 4 NORTH, RANGE 8 WEST
FDOT ROADWAY ID: 53020000
MILEPOST: 13.649

DRAWING INDEX	
DWG NO.	DRAWING NAME
T-1	TITLE SHEET
S1	SURVEY
A1	SITE AERIAL
C-1.0	EXISTING CONDITIONS AND DEMOLITION PLAN
C-1.1	EXCAVATION AND BACKFILL PLAN
C-1.2	EXCAVATION CROSS-SECTION AND DETAILS
C-2.0	SITE AND DIMENSION PLAN
C-3.0	GRADING AND DRAINAGE PLAN
C-3.1	STORMWATER MANAGEMENT PLAN & DETAILS
C-3.2	SANDFILTER PLAN & DETAILS
C-4.0	UTILITY PLAN
C-5.0	STORMWATER POLLUTION PREVENTION PLAN
C-6.0	SITE DETAILS
C-6.1	UTILITY DETAILS
C-6.2	UTILITY DETAILS
C-7.0	DRIVEWAY PLAN AND DETAILS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
DAVID H. MELVIN, P.E. ON THE DATE ADJACENT TO THE
SEAL.

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MELVIN ENGINEERING, INC.
4428 LAFAYETTE STREET
MARIANNA, FL 32446
CERTIFICATE OF AUTHORIZATION; EB: 00005637
DAVID H. MELVIN, P.E. NO. 38734

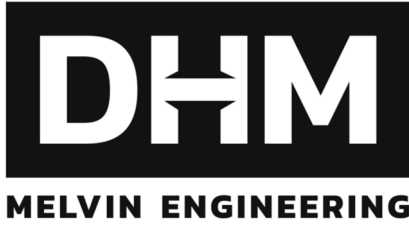


THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE
RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE
WITH RULE 61G15-23.004 F.A.C.
SHEETS T-1, C-1.0 THRU C-7.

RELEASED DATE:

AUGUST 2025

PREPARED BY:



4428 LAFAYETTE STREET / MARIANNA, FLORIDA 32446/ (850) 482-3045

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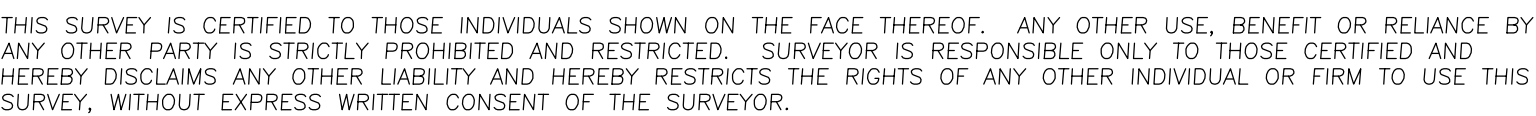
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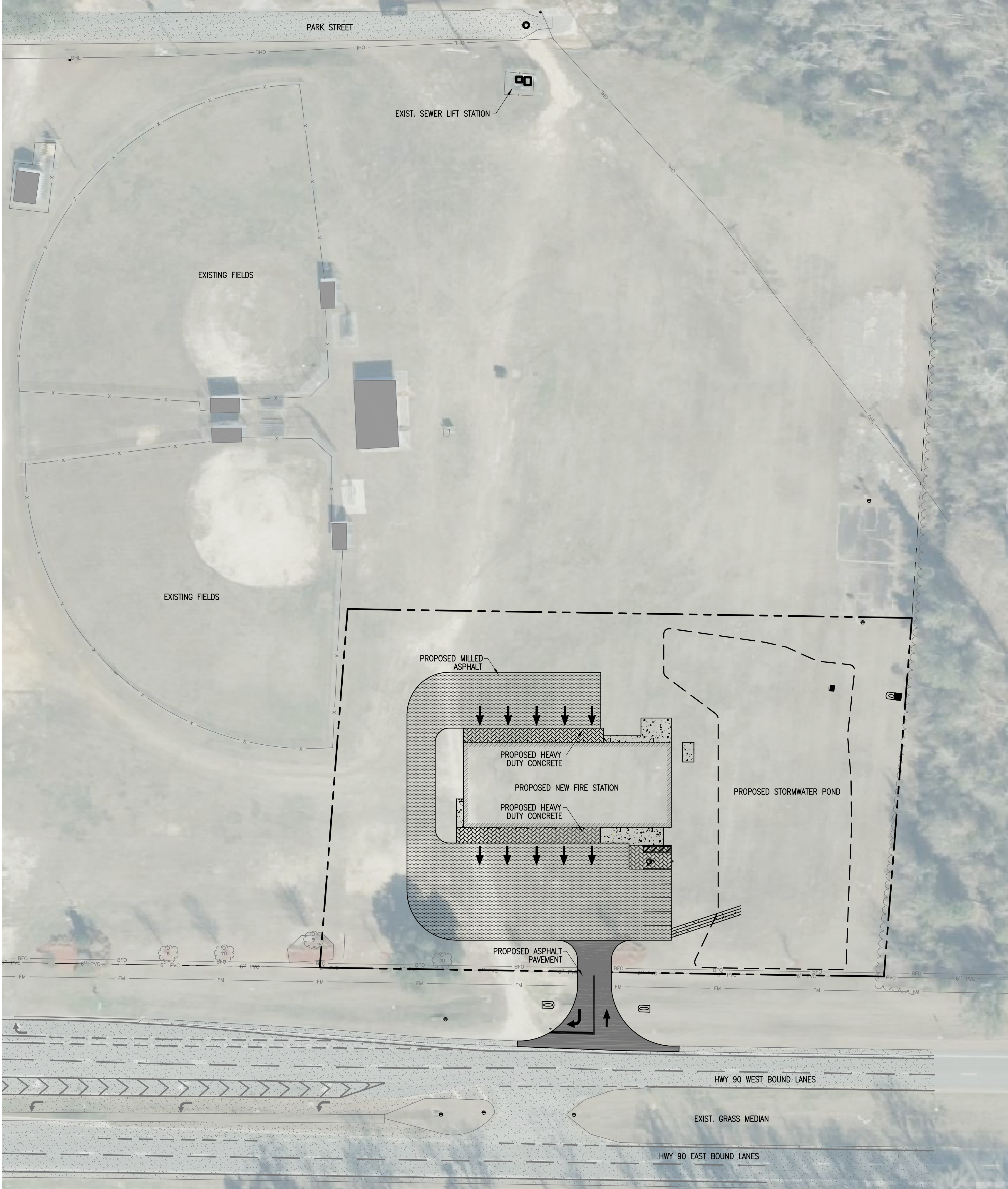


SHEET TITLE SHEET
TITLE
NEW FIRE STATION
FOR
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT
DATE:
08-2025
DRAWN BY:
MMF
CHECKED BY:
DHM

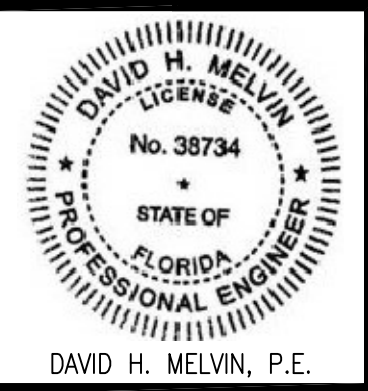
SHEET No.
T-1
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CONSTRUCTION DOCUMENTS





LEGEND

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- PROPOSED REGULAR CONCRETE
- PROPOSED STORMWATER MANAGEMENT FACILITY
- PROPOSED MILLED ASPHALT
- PROPOSED ASPHALT
- PROPOSED HEAVY DUTY CONCRETE



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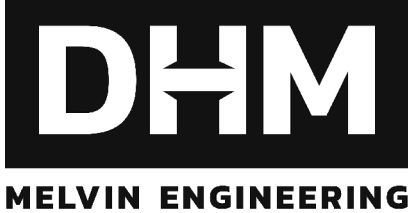
SHEET SITE AERIAL
TITLE
FOR: RESILIENCY HUB/FIRE STATION
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT
DATE: 08-2025
DRAWN BY: MMF
CHECKED BY: DHM

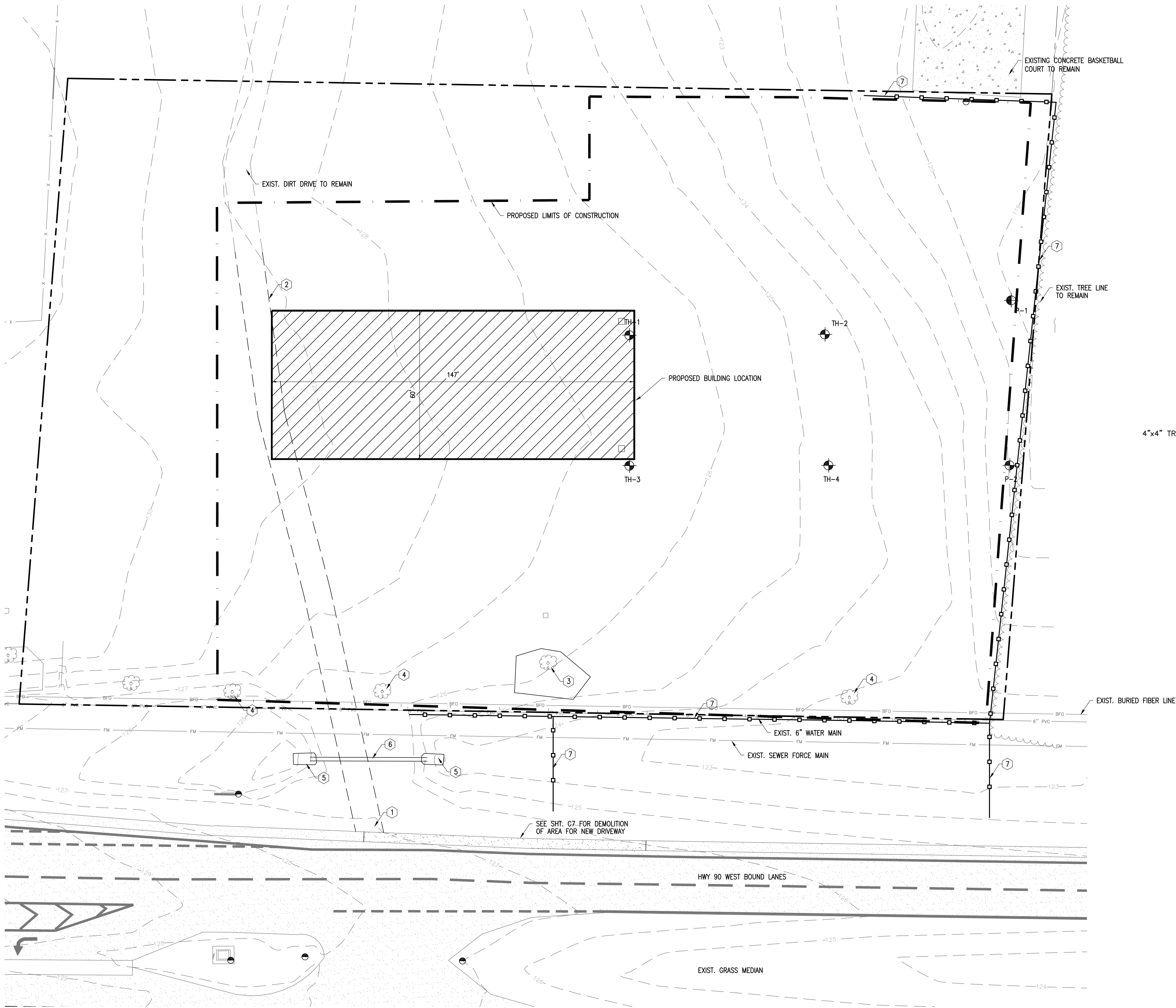
SHEET No.

A-1

100% COMPLETE
CONSTRUCTION DOCUMENTS

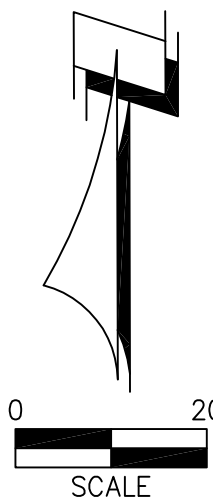


EB-0005637 LC-0000277
MARIANNA OFFICE
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Marianna, FL 32446
Phone: (850) 482-3045



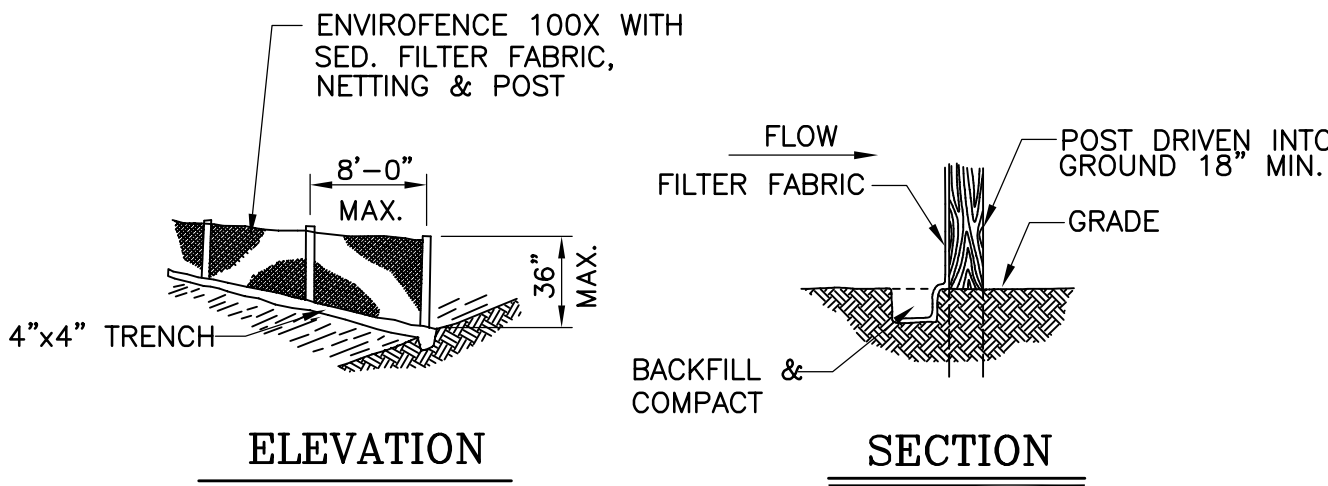
LEGEND

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXISTING CONTOURS
- PROPOSED SILT FENCE
- PROPOSED LIMITS OF CONSTRUCTION



DEMOLITION NOTES

- EXISTING GRADED DRIVEWAY TO BE USED AS THE CONSTRUCTION ENTRANCE AND THEN EXISTING DIRT ROAD SHALL BE REMOVED AS PART OF NEW CONSTRUCTION.
- EXISTING DIRT ROAD
- EXISTING TREE AND PLANTER AREA TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING MES TO BE REMOVED
- EXISTING CULVERT TO BE REMOVED AND REPLACED
- INSTALL SILT FENCE (SEE DETAIL A/C-1.0)

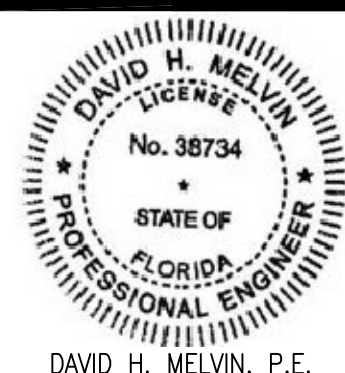


SILT FENCE DETAIL

A
C-1.0
N.T.S.

DHM
MELVIN ENGINEERING

EB-0005637 LC-0000277
MARIANNA OFFICE
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DONOFRO ARCHITECTS

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FAX: (850) 482-8609

SHEET/EXISTING CONDITIONS AND DEMOLITION PLAN

FOR: RESILIENCY HUB/FIRE STATION

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT

DATE:
08-2025

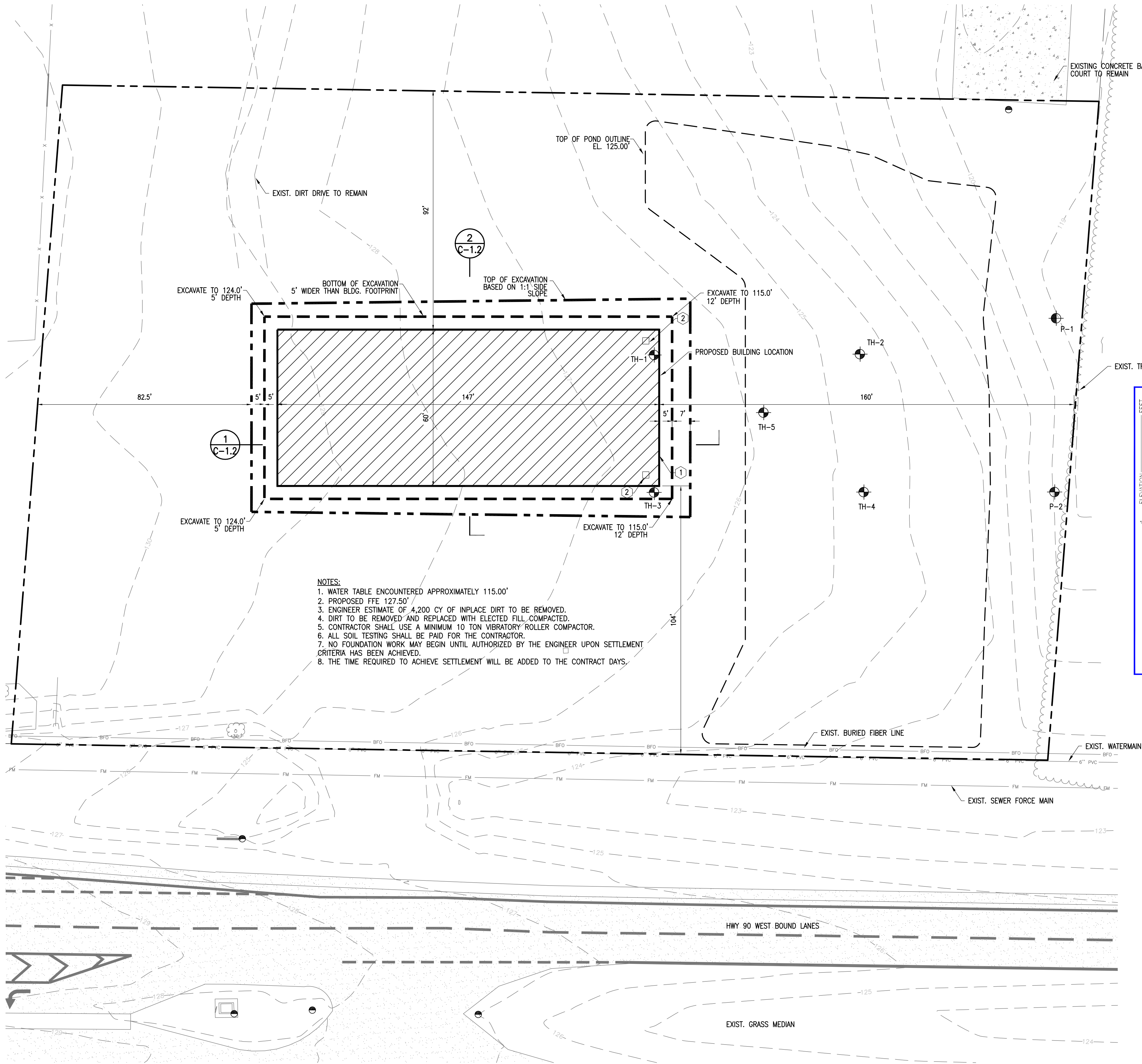
DRAWN BY:
MMF

CHECKED BY:
DHM

SHEET No.

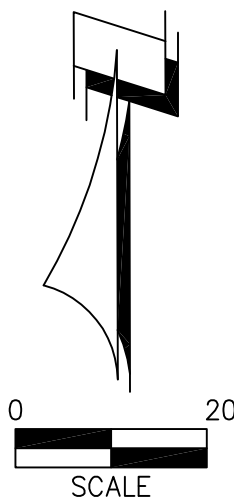
C-1.0

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CONSTRUCTION DOCUMENTS



LEGEND

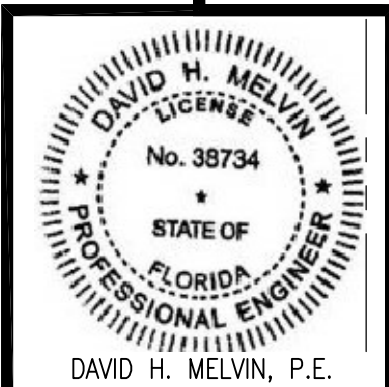
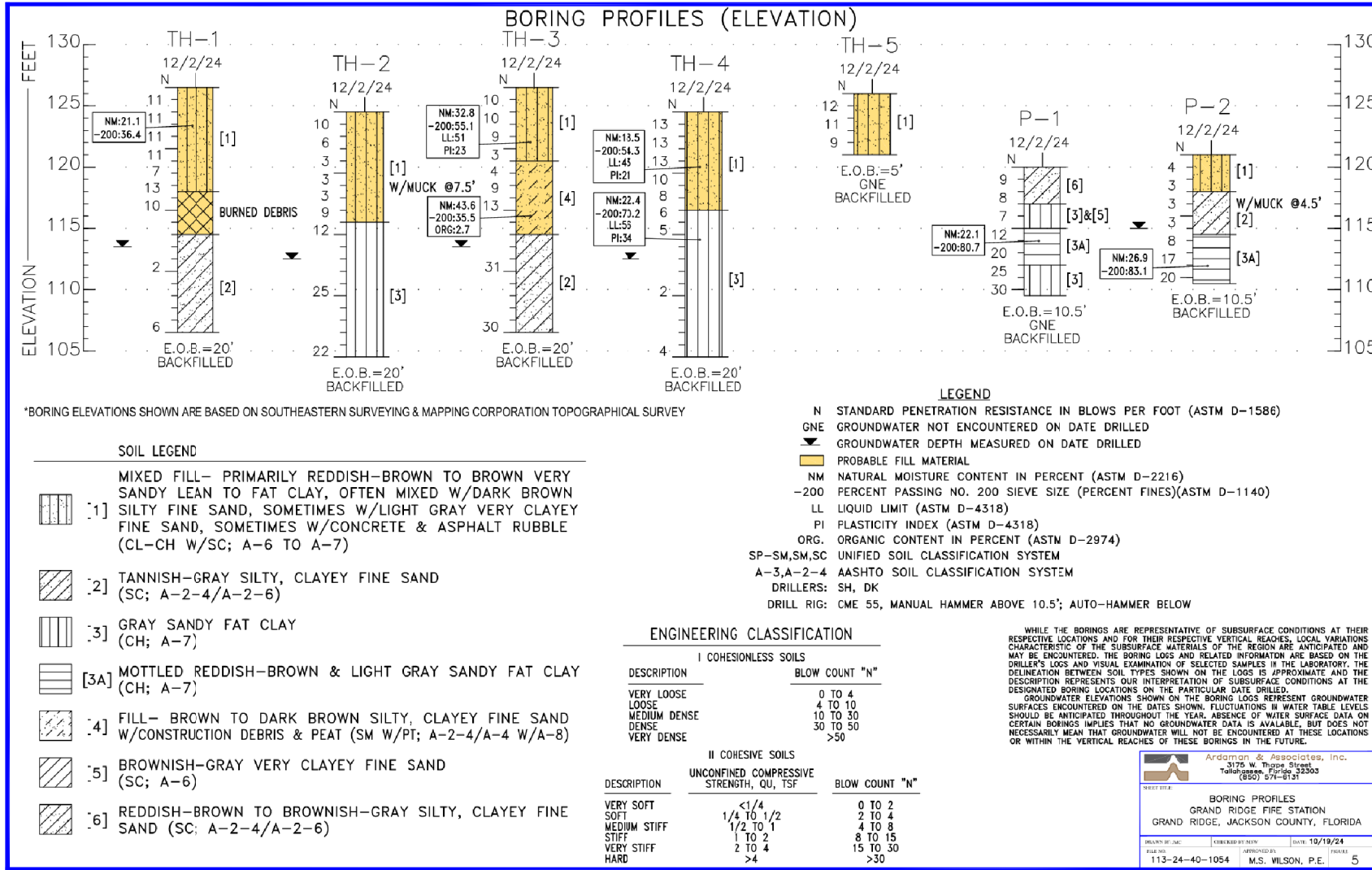
- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXISTING CONTOURS
- PROPOSED BUILDING FOOTPRINT



EXCAVATION NOTES

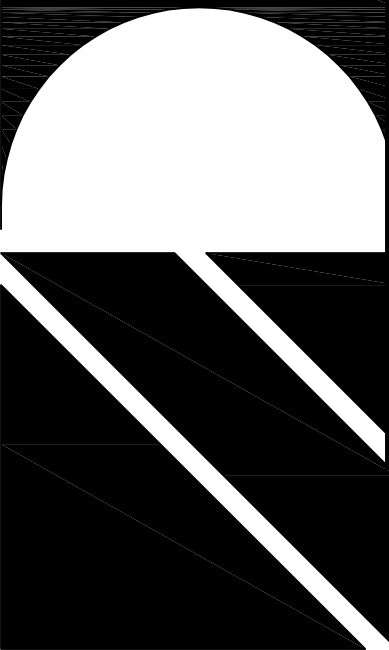
- PROPOSED BUILDING FOOTPRINT AREA (60'x174')
- INSTALL SETTLEMENT MONITORING PLATES TYP. OF TWO (SEE DETAIL B/C1.2)

- NOTES:
- WATER TABLE ENCOUNTERED APPROXIMATELY 115.00'
 - PROPOSED FFE 127.50'
 - ENGINEER ESTIMATE OF 4,200 CY OF INPLACE DIRT TO BE REMOVED.
 - DIRT TO BE REMOVED AND REPLACED WITH ELECTED FILL COMPACTED.
 - CONTRACTOR SHALL USE A MINIMUM 10 TON VIBRATORY ROLLER COMPACTOR.
 - ALL SOIL TESTING SHALL BE PAID FOR THE CONTRACTOR.
 - NO FOUNDATION WORK MAY BEGIN UNTIL AUTHORIZED BY THE ENGINEER UPON SETTLEMENT CRITERIA HAS BEEN ACHIEVED.
 - THE TIME REQUIRED TO ACHIEVE SETTLEMENT WILL BE ADDED TO THE CONTRACT DAYS.



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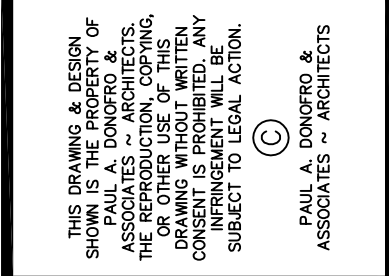
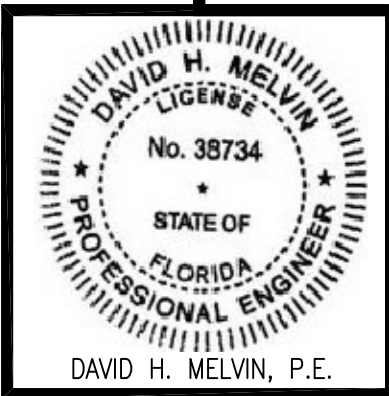


SHEET: EXCAVATION AND BACKFILL PLAN
TITLE: RESILIENCY HUB/FIRE STATION
FOR: GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

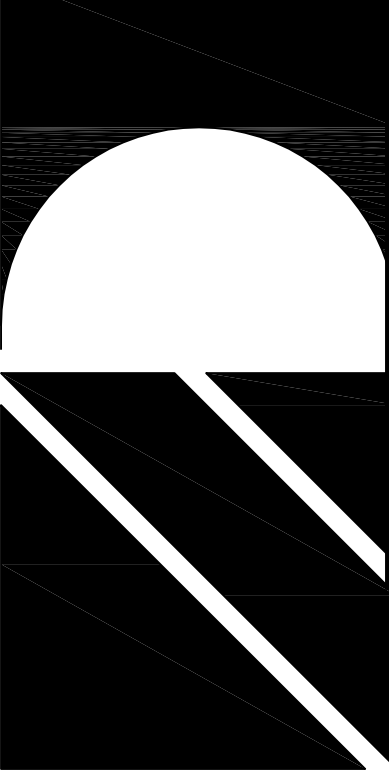
JOB NUMBER: GRD22MT
DATE: 08-2025
DRAWN BY: MMF
CHECKED BY: DHM

SHEET No.
C-1.1
100% COMPLETE
CONSTRUCTION DOCUMENTS

DHM
MELVIN ENGINEERING
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MARIANNA OFFICE
4428 Lafayette Street
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Phone: (850) 482-3045



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MARIANNA, FL 32447
FAX: (850) 482-8609



GRAND RIDGE FIRE DEPARTMENT
RESILIENCY HUB/FIRE STATION
FOR: GRAND RIDGE, FLORIDA

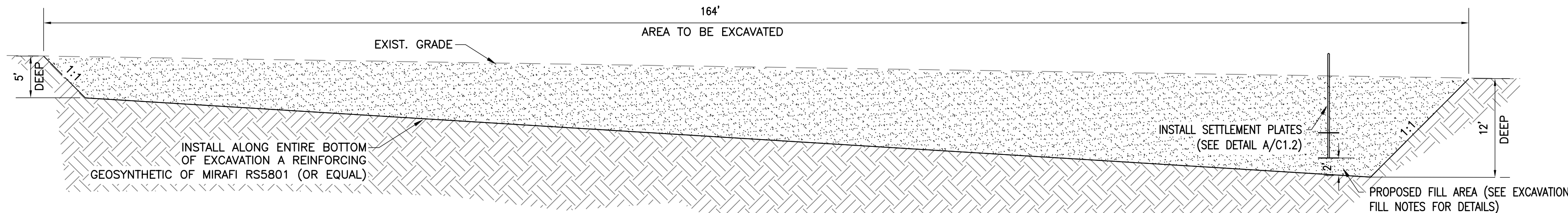
JOB NUMBER: GRD22MT
DATE: 08-2025
DRAWN BY: MMF
CHECKED BY: DHM

SHEET No.
C-1.2
100% COMPLETE
CONSTRUCTION DOCUMENTS

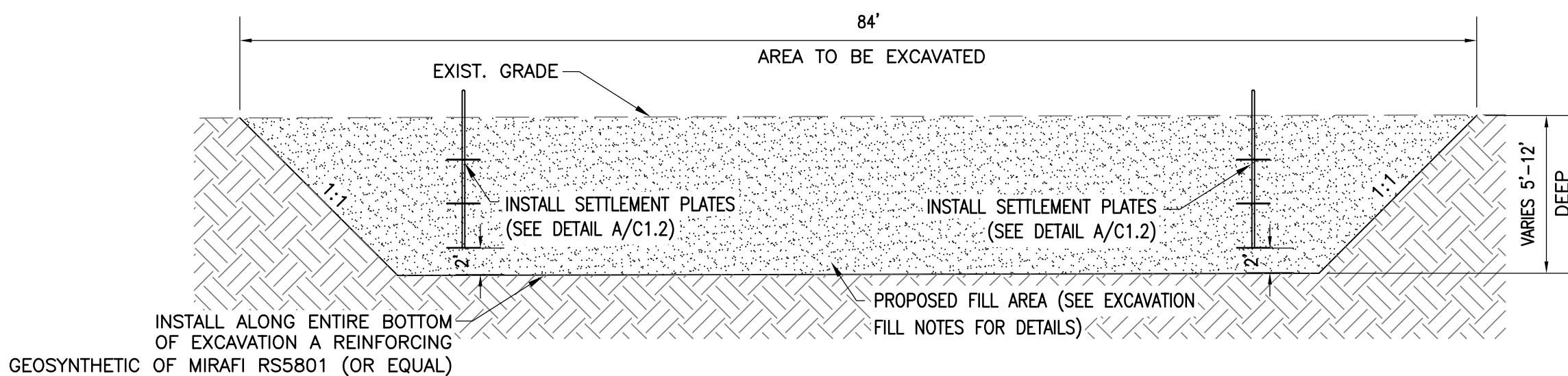
DHM
MELVIN ENGINEERING
EB-0005637 LC-0000277
MARIANNA OFFICE
4428 Lafayette Street
Marianna, FL 32446
Phone: (850) 482-3045

EXCAVATION/FILL NOTES (PER GEOTECH REPORT):

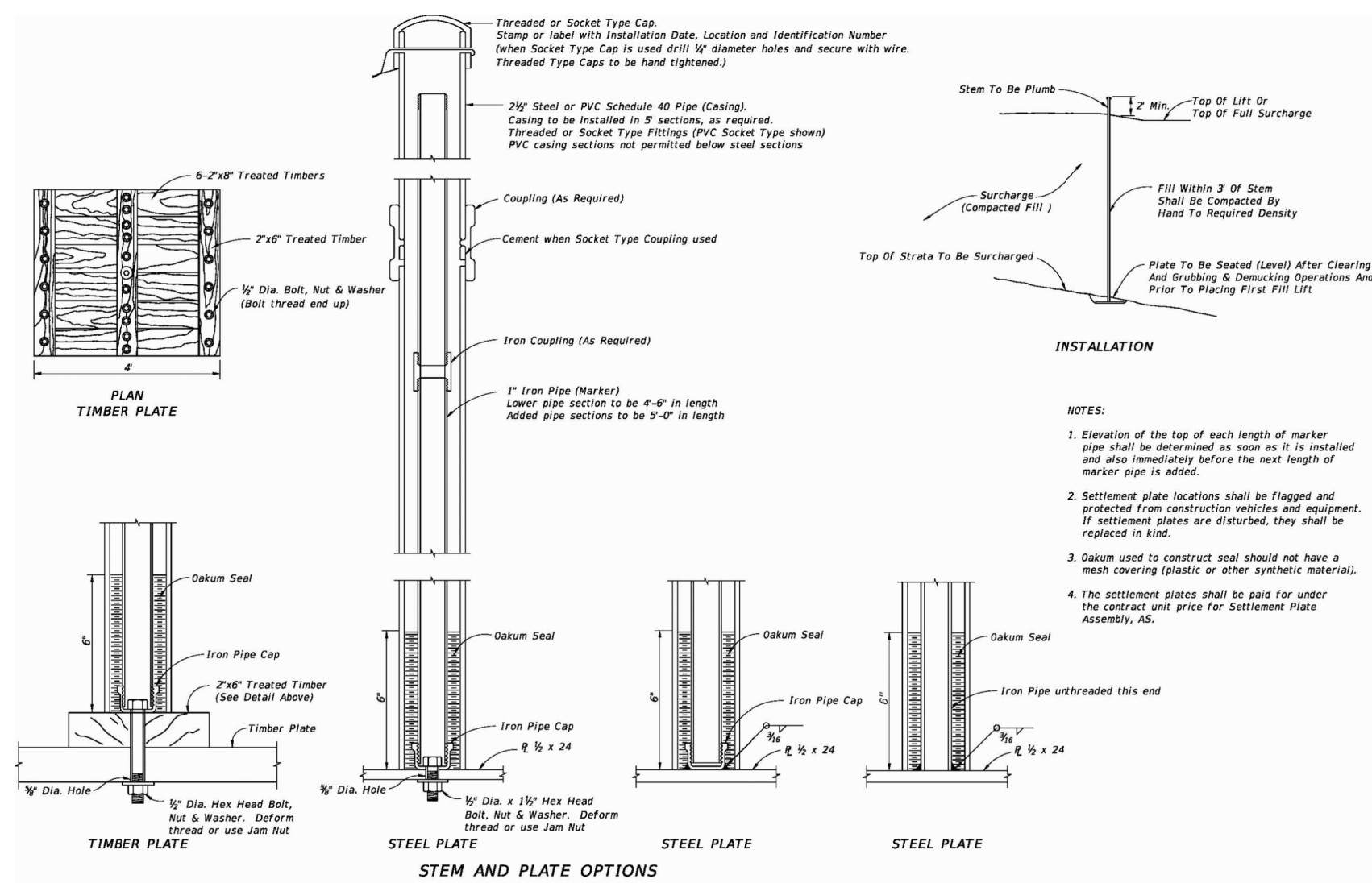
- ALL WORK SHALL BE PERFORMED TO REQUIREMENTS OF THE GEOTECHNICAL REPORT PRODUCED BY ARDAMAN & ASSOCIATES DATED DECEMBER 20, 2024. EXCAVATE EXISTING SOIL 5'-12' BELOW EXISTING GRADE, PLUS A MARGIN OF AT LEAST 5 FEET EITHER SIDE OF AREA.
- INSTALL REINFORCING GEOSYNTHETIC MIRAFI RS580i (OR EQUAL) ALONG THE NATIVE SUBGRADE AREA.
- FILL SHALL BE INSTALLED IN 12" LIFTS. INITIAL LIFT SHALL NOT BE COMPACTED TO AVOID DAMAGE TO THE GEOSYNTHETIC. ADDITIONAL FILL SHALL BE INSTALLED IN 12" LIFTS AND COMPACTED (95% MOD. PROCTOR). IF HAND-HELD EQUIPMENT IS USED, THE LIFT THICKNESS SHOULD BE REDUCED TO NO MORE THAN 6". CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL TESTING. A MINIMUM OF TWO PASSING DENSITY PER LIFT AT LOCATIONS SELECTED BY THE ENGINEER'S INSPECTOR.
- THE RECOMMENDED FILL TYPE IS SAND (WITH LESS THAN 12% DRY WEIGHT MATERIAL PASS US STD. NO. 200 SIEVE SIZE). A CLAYEY SAND (% PASS US NO. 200 SIEVE OF 25%-30%, WITH LL<40 AND PI<15) SHALL BE INSTALLED IN THE FINAL 12" AT GROUND SURFACE TO REDUCE SURFACE DRAINAGE INTO SAND BACKFILL.
- DEWATERING MIGHT BE REQUIRED TO ACHIEVE THE NECESSARY STRIPPING AND BACKFILLING AND COMPACTION REQUIREMENTS. CONTRACTOR SHALL DETERMINE THE METHOD OF DEWATERING. IT IS RECOMMENDED TO DRAW DOWN THE WATER TABLE BELOW 2 FEET OF THE BOTTOM OF ANY EXCAVATION OR COMPACTION SURFACE TO PRECLUDE COMPACTION RELATED PROBLEMS.
- SETTLEMENT PLATES SHALL BE INSTALLED AFTER THE INITIAL 2 FOOT THICK LIFT OF FILL IS PLACED ON TOP OF THE GEOSYNTHETIC. AT LEAST 3 SETTLEMENT PLATES ARE TO BE INSTALLED. EARTHWORK OPERATIONS SHOULD OCCUR WITH CARE AROUND THE PLATES AS TO NOT DAMAGE THEM. THE SETTLEMENT PLATES SHALL BE MONITORED BEFORE AND AFTER EACH 2-3 FOOT OF FILL IS PLACED. MONITORING OF PLATES SHOULD CONTINUE AFTER THE AREA HAS BEEN FULLY BACKFILLED AND UNTIL ON-GOING SETTLEMENT BECOMES NEGLIGIBLE.
- ANYTHING NOT SPECIFIED IN THE ABOVE NOTES IS ADDRESSED IN THE GEOTECHNICAL REPORT PROVIDED.



EXCAVATION CROSS-SECTION
1
C-1.1
SCALE: 1" = 10'



EXCAVATION CROSS-SECTION
2
C-1.1
SCALE: 1" = 10'



SETTLEMENT PLATE DETAIL
A
C1.1
R.D.O.T. STD. INDEX NO. 141-T01
N.T.S.

DEVELOPMENT NOTES

DEVELOPER: TOWN OF GRAND RIDGE
2086 PORTER AVENUE
GRAND RIDGE, FLORIDA 32442
CONTACT: AMANDA APPLEWHITE

ENGINEER: DAVID H. MELVIN, INC. CONSULTING ENGINEERS
4428 LAFAYETTE STREET
MARIANNA, FL 32446
CONTACT: MARY-MARGARET FARRIS, EI
(850) 482-3045

SURVEYOR: SOUTHEASTERN SURVEYING & MAPPING
1130 HIGHWAY 90
CHIPLEY, FL 32428
(850) 706-2535

SITE NARRATIVE

IT IS PROPOSED TO DEVELOP 2.34-ACRES LOCATED ON THE NORTH SIDE OF HWY 90 FOR A FIRE STATION. PROPOSED IMPROVEMENTS ARE TO CONSIST OF 8,820 SF BUILDING, VEHICULAR USE AREA, NEW DRIVEWAY ACCESS ON HWY 90, ON-SITE STORMWATER FACILITY AND ON-SITE UTILITY IMPROVEMENTS. SEWER IS TO BE PROVIDED BY CONNECTION TO EXISTING MAIN. WATER IS TO BE PROVIDED BY CONNECTION TO EXISTING WATER LINE. STORMWATER TREATMENT IS TO BE PROVIDED BY AN ON-SITE STORMWATER FACILITY. GARBAGE DISPOSAL WILL BE PROVIDED BY A PROPOSED ROLL-AWAY CANISTER.

LEGEND

	PROPERTY BOUNDARY
	EXISTING ASPHALT AREA
	PROPOSED REGULAR CONCRETE
	PROPOSED STORMWATER MANAGEMENT FACILITY
	PROPOSED MILLED ASPHALT
	PROPOSED ASPHALT
	PROPOSED HEAVY DUTY CONCRETE

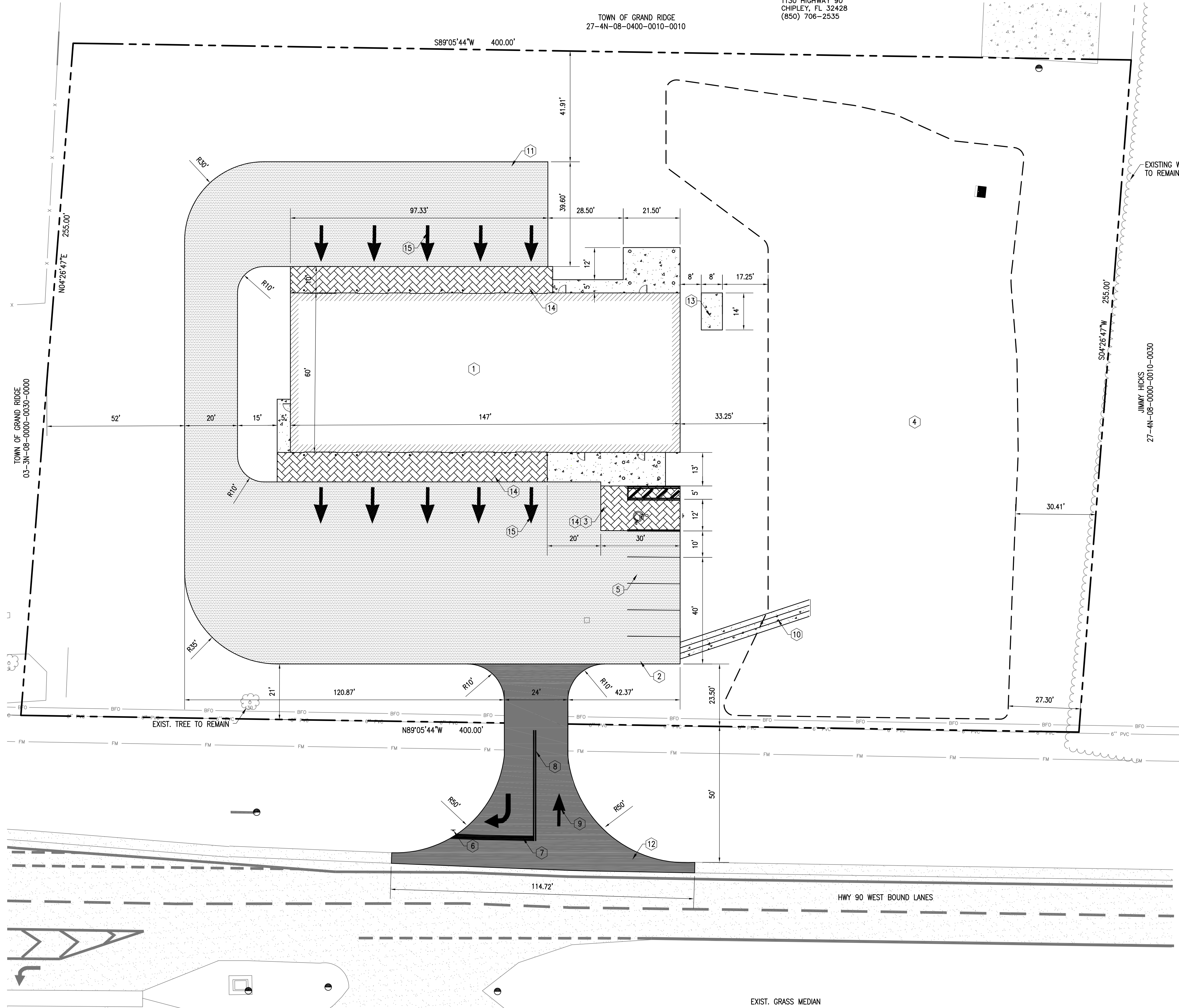


SITE STATISTICS TABLE

General Information			
Property Tax ID #(s):	27-4N-08-0000-0400-0022		
Site Address:	Hwy 90		
Owner:	Town of Grand Ridge		
Engineer:	David H. Melvin, Inc.		
Surveyor:	Southeastern Surveying and Mapping, Corp.		
Utilities:			
Water	Town of Grand Ridge		
Sewer	Town of Grand Ridge		
Land Use:	Recreation/Residential		
Density:	N/A		
Flood Zone:	12063C0475D; Zone X		
Site Data Table			
Total Parcel Area (SF):	101,930 SF	2.34 AC	
Proposed Impervious Area (SF):	32,835 SF	32.21 %	
Building Area (SF):	8,820 SF	8.65 %	
Milled Asphalt (SF):	19,315 SF	18.95 %	
Asphalt Pavement (SF):	700 SF	0.69 %	
Concrete Area (SF):	4,000 SF	3.92 %	
Parking Data			
Total Parking Spaces Provided:		7 Spaces	
Regular Parking Spaces		6 Spaces	
Handicap Parkings Spaces (1 space per 25 regular spaces)		1 Spaces	

SITE NOTES

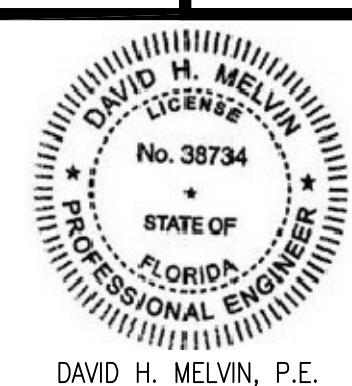
- PROPOSED 8,820 SF BUILDING (SEE ARCHITECTURAL FOR DETAILS)
- INSTALL CONCRETE PAVEMENT (SEE DETAIL D/C-6.0)
- INSTALL 12'x20' ADA PARKING SPACE (SEE DETAIL B/C-6.0)
- PROPOSED DRY DETENTION STORMWATER MANAGEMENT FACILITY (SEE SHEET C3.1)
TOP ELEV. 125.00'
BOTT. ELEV. 121.00'
- INSTALL 10'x20' REGULAR PARKING SPACE (SEE DETAIL B/C-6.0)
- INSTALL CO-MOUNTED 36"x36" STOP SIGN (R1-1) AND RIGHT TURN ONLY SIGN
- INSTALL 24" WIDE WHITE THERMOPLASTIC STOP BAR
- INSTALL DOUBLE YELLOW SOLID THERMOPLASTIC STRIPE
- INSTALL PAVEMENT MESSAGE (FDOT STD. INDEX NO. 711-001)
- INSTALL 6" THICK 6' WIDE CONCRETE FLUME (SEE DETAIL G/C-6.0)
- INSTALL MILLED ASPHALT PAVEMENT (SEE DETAIL F/C-6.0)
- INSTALL ASPHALT PAVEMENT (SEE DETAIL H/C-6.0)
- INSTALL 8'x14'x10" THICK CONCRETE GENERATOR PAD (SEE ELECTRICAL FOR DETAILS)
- INSTALL HEAVY DUTY CONCRETE PAVEMENT (SEE DETAIL A/C-6.0)
- DIRECTIONAL ARROWS SHOWN FOR ILLUSTRATION PURPOSES ONLY, NOT TO BE INSTALLED. (TYP.)



DHM
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DONOFRO ARCHITECTS

P.O. BOX 861
MARIANNA, FL 32447
FAX: (850) 482-8609



SHEET SITE AND DIMENSION PLAN

TITLE

RESILIENCY HUB/FIRE STATION

FOR:

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT

DATE:
08-2025

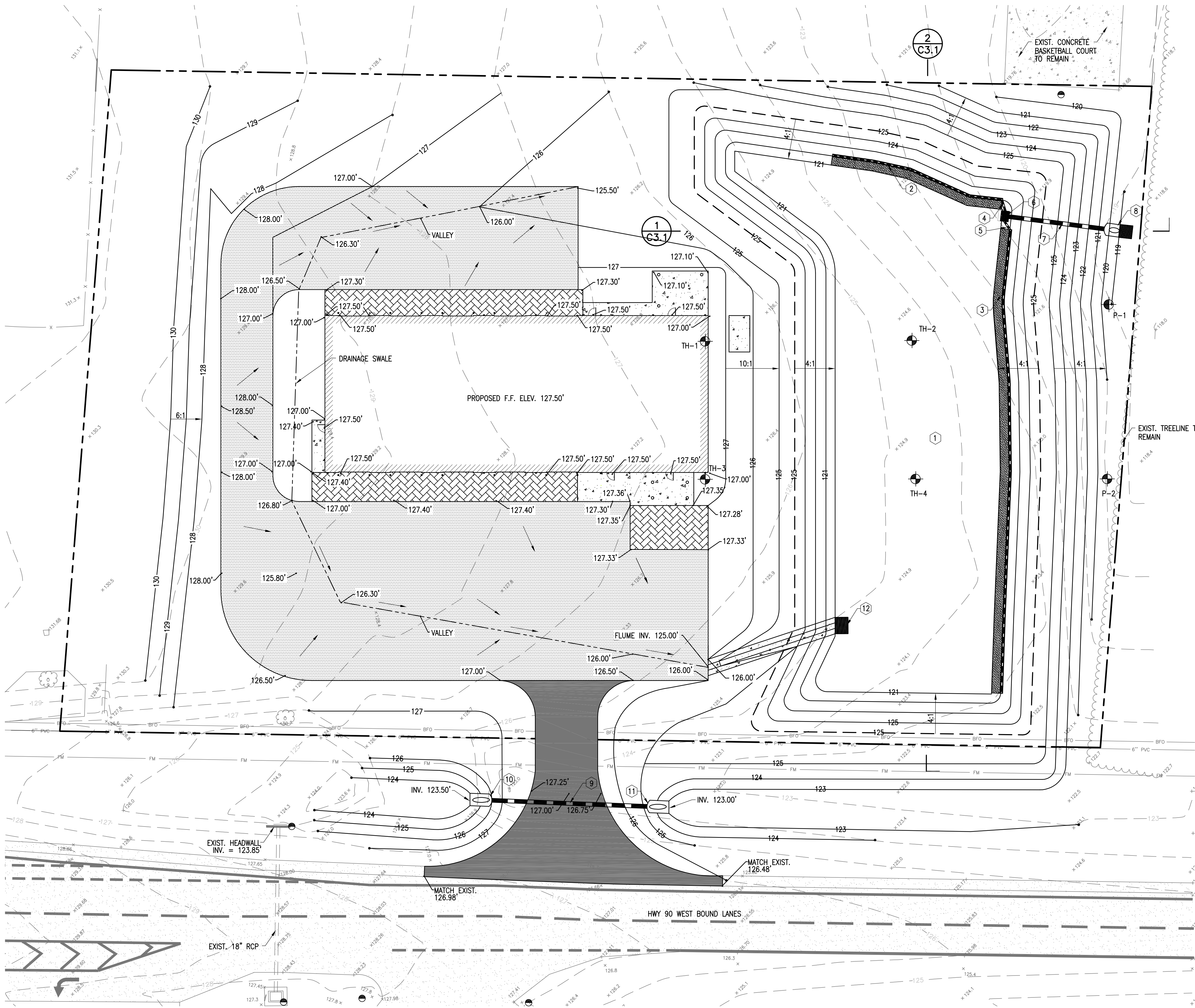
DRAWN BY:
MMF

CHECKED BY:
DHM

SHEET No.

C-2.0

100% COMPLETE
CONSTRUCTION DOCUMENTS



LEGEND

	PROPERTY BOUNDARY
	EXISTING ASPHALT AREA
	PROPOSED CONCRETE
	PROPOSED STORMWATER MANAGEMENT FACILITY
	EXISTING CONTOURS
	PROPOSED CONTOURS
	POND SOIL BORING LOCATION
	PROPOSED MILLED ASPHALT
	PROPOSED ASPHALT
	PROPOSED HEAVY DUTY CONCRETE
	PROPOSED DRAINAGE SWALE
	DRAINAGE ARROWS

DRAINAGE NOTES

1. PROPOSED DRY DETENTION STORMWATER FACILITY (SEE SHEET C3.1)
TOP ELEV. 125.00'
BOTT. ELEV. 121.00'
2. INSTALL 73 LF OF SIDEBANK SANDFILTER (SEE DETAIL B/C-3.2)
3. INSTALL 177 LF OF SIDEBANK SANDFILTER (SEE DETAIL B/C-3.2)
4. INSTALL 5 LF 8" SAND FILTER HEADER PIPE @ 0.50% SLOPE
5. INSTALL 4 LF 8" SAND FILTER HEADER PIPE @ 0.50% SLOPE
6. INSTALL TYPE C DBI (SEE DETAIL A/C-3.1)
7. INSTALL 37 LF 18" PIPE
8. INSTALL 18" MES INV. ELEV. 119.00' W/5'x5'x6" THICK CONC. RIP-RAP (6" DIA. MIN.)
9. INSTALL 60 LF 18" RCP @ 0.83% SLOPE
10. INSTALL 18" MES INV. ELEV. 123.50'
11. INSTALL 18" MES INV. ELEV. 123.00'
12. INSTALL 5'x6'x6" THICK CONC. RIP-RAP (6" DIA. MIN.)

CONSTRUCTION NOTES:

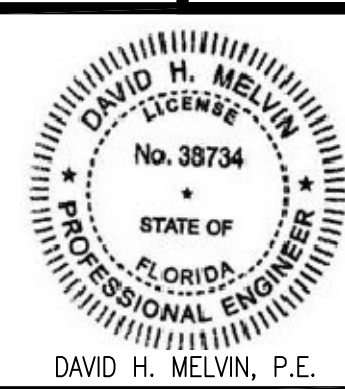
1. ENGINEER SHALL PROVIDE CONTRACTOR WITH ELECTRONIC FILE FOR SITE STAKEOUT. CONTRACTOR SHALL VERIFY ALL LAYOUT FEATURES PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR AMBIGUITY. THE CONTRACTOR SHALL UTILIZE REGISTERED SURVEYOR FOR LAYOUT OF ALL SITE IMPROVEMENTS.
2. UNLESS OTHERWISE INDICATED OR MODIFIED ON THE PLANS OR IN THE SPECIFICATIONS, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE THE GOVERNING SPECIFICATIONS FOR CONSTRUCTION MATERIAL AND SITE WORK.
3. WHERE REFERENCE IS MADE TO A STANDARD INDEX OR DETAIL, THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION SHALL BE USED AS IF A PART OF THIS PLAN.
4. PRIOR TO COMMENCING CONSTRUCTION IN ANY CITY, OR STATE RIGHT-OF-WAY OR EASEMENT, THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE APPROPRIATE UTILITY PROVIDER FOR ANY NECESSARY UTILITY RELOCATION'S REQUIRED TO IMPLEMENT THE PROPOSED PLAN. ANY REQUIRED UTILITY RELOCATION WORK SHALL BE INCLUDED IN THE CONSTRUCTION BID.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
6. EXISTING SURVEY ELEVATION INFORMATION WAS OBTAINED FROM SOUTHEASTERN SURVEYING AND MAPPING, CORP. IF ANY DISCREPANCIES ARE FOUND DURING CONSTRUCTION WITH EXISTING ELEVATION INFORMATION THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO ANY FURTHER CONSTRUCTION OR INSTALLATION OF IMPROVEMENTS.
7. CONTRACTOR SHALL SOD ALL DISTURBED AREA AND RE-GRADE SMOOTH ALL AREAS WITHIN HWY 90 DRIVEWAY RIGHT-OF-WAY (2,000 SY OF SOD), HWY 90 TURN LANE RIGHT-OF-WAY (450 SY) AND ON-SITE AREAS (6,500 SY). THE REMAINDER OF THE DISTURBED AREA SHALL BE SEEDED AND MULCHED TO ENSURE STABILITY AND PROHIBIT EROSION. CONTRACTOR SHALL STOCK PILE AND REUSE TOP SOIL UNDER SODDED AREAS.
8. CONTRACTOR SHALL NOTIFY ENGINEER FOR SITE VISIT AND CONFIRMATION OF GRADE STAKING PRIOR TO INSTALLATION OF ANY STRUCTURE, CONCRETE OR ASPHALT.
9. GRADING AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2-PERCENT WHERE LOCATED WITHIN 10 FEET OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2-PERCENT AWAY FROM THE BUILDING.
10. BUILDING ROOF SHALL BE CONSTRUCTED WITH GUTTERS AND DOWNSPOUTS TO PROVIDE POSITIVE DRAINAGE CONVEYANCE AWAY FROM THE BUILDINGS.

CONSTRUCTION SEQUENCE:

1. ALL PERMITS (TOWN, FDOT & NFWFMD) MUST BE OBTAINED PRIOR TO ANY CONSTRUCTION COMMENCEMENT AND KEPT ON-SITE DURING CONSTRUCTION UNTIL COMPLETION OF PROJECT.
2. THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. CONSTRUCT SEDIMENTATION/EROSION CONTROLS AND THEN CLEARLY "FLAG" THE LIMITS OF CLEARING. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN INSPECTED AND APPROVED. THE CONTRACTOR SHALL CONTACT CITY REPRESENTATIVE TO INSPECT SAID SEDIMENT/EROSION CONTROLS PRIOR TO CONSTRUCTION ACTIVITY.
4. CLEAR THE REMAINING PORTION OF THE SITE AND CREATE DIVERSION CHANNELS TO DIRECT THE FLOW. WHERE NEEDED, CHECK DAMS CONSTRUCTED OF HAY BALES SHALL BE USED TO TRAP SEDIMENT.
5. CONSTRUCT SITE IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED PLANS.
6. SOD OR SEED ALL REMAINING DISTURBED AREAS.
7. CONTACT PROJECT ENGINEER FOR INSPECTION OF SITE DURING CONSTRUCTION.
8. PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIAL FROM THE SITE THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LOCATION OF ALL PROPOSED DISPOSAL SITES. ALL DISPOSAL SITES SHALL BE PROPERLY PERMITTED AND APPROVED TO RECEIVE THE EXCAVATED MATERIALS. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF THE ALLOWABLE DISPOSAL SITES FROM THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXCAVATED MATERIALS.
9. OBTAIN FINAL APPROVAL FROM THE ENGINEER AND OWNER. CONTRACTOR SHALL REPAIR, REPLACE OR RECONSTRUCT AT NO EXTRA COST ANY RELATED ITEMS TO THE STORMWATER CONVEYANCE SYSTEM THAT ARE FOUND TO BE IN NON-COMPLIANCE WITH THE PERMITTED PLANS.



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MARIANNA, FL 32447
FAX: (850) 482-8609

SHEET GRADING AND DRAINAGE PLAN

TITLE:

NEW FIRE STATION

FOR:

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:

GRD22MT

DATE:

08-2025

DRAWN BY:

MMF

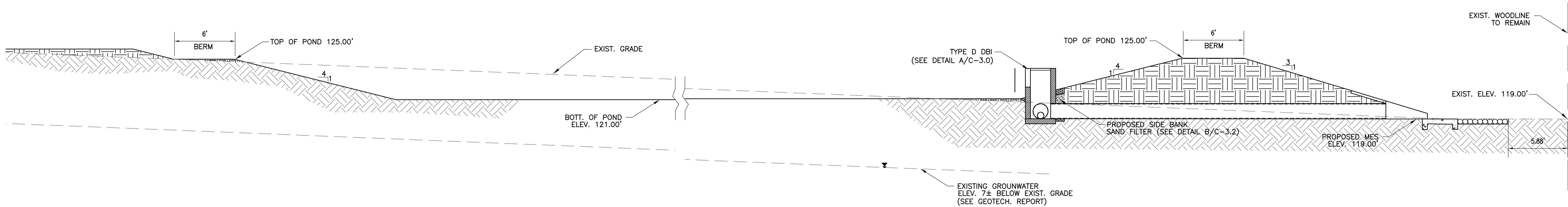
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DHM

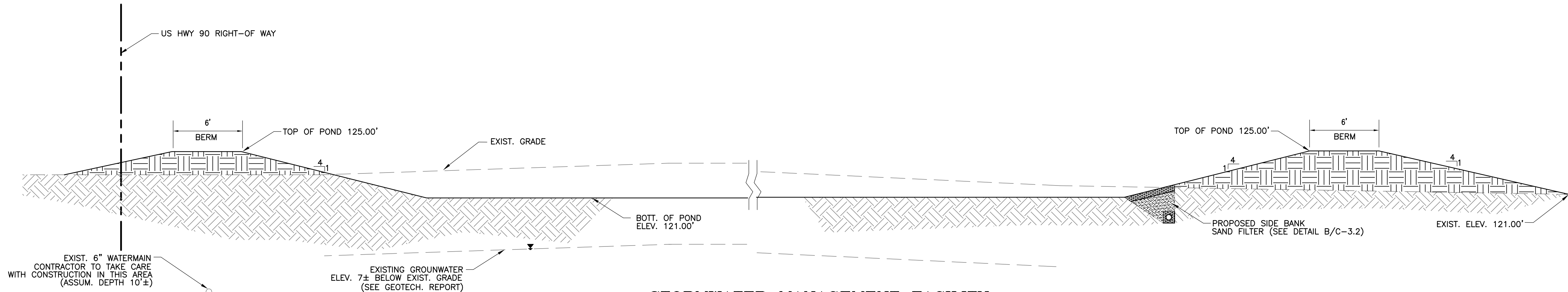
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C-3.0

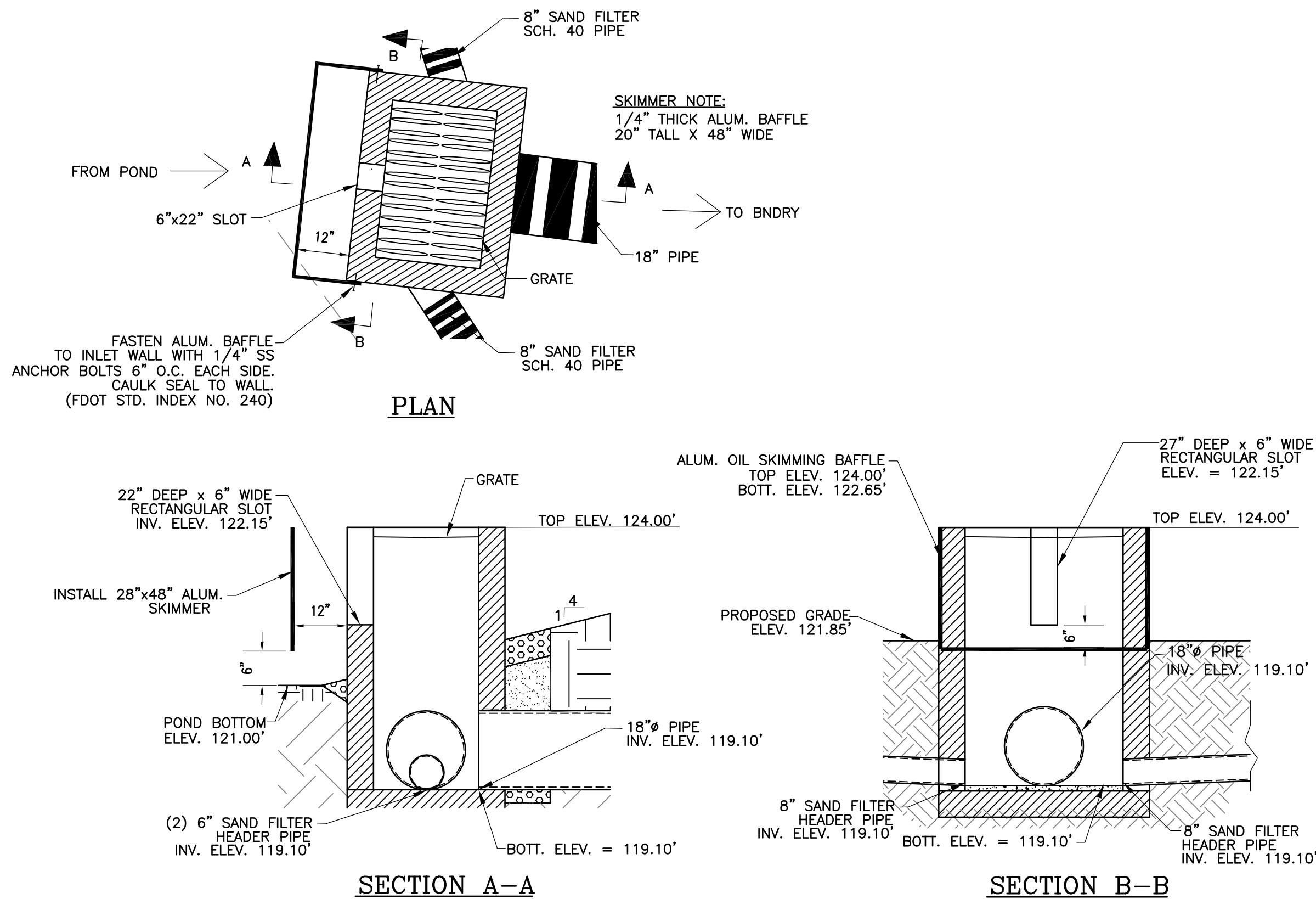
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CONSTRUCTION DOCUMENTS



1
C-3.0
STORMWATER MANAGEMENT FACILITY
SCALE: 1" = 5'



2
C-3.0
STORMWATER MANAGEMENT FACILITY
SCALE: 1" = 10'



A
C-3.0
FDOT TYPE D INLET
F.D.O.T. STD. INDEX NO. 232
SCALE: 1" = 2'

DHM
MELVIN ENGINEERING
EB-0005637 LC-0000277
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DAVID H. MELVIN
No. 38734
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
DAVID H. MELVIN, P.E.

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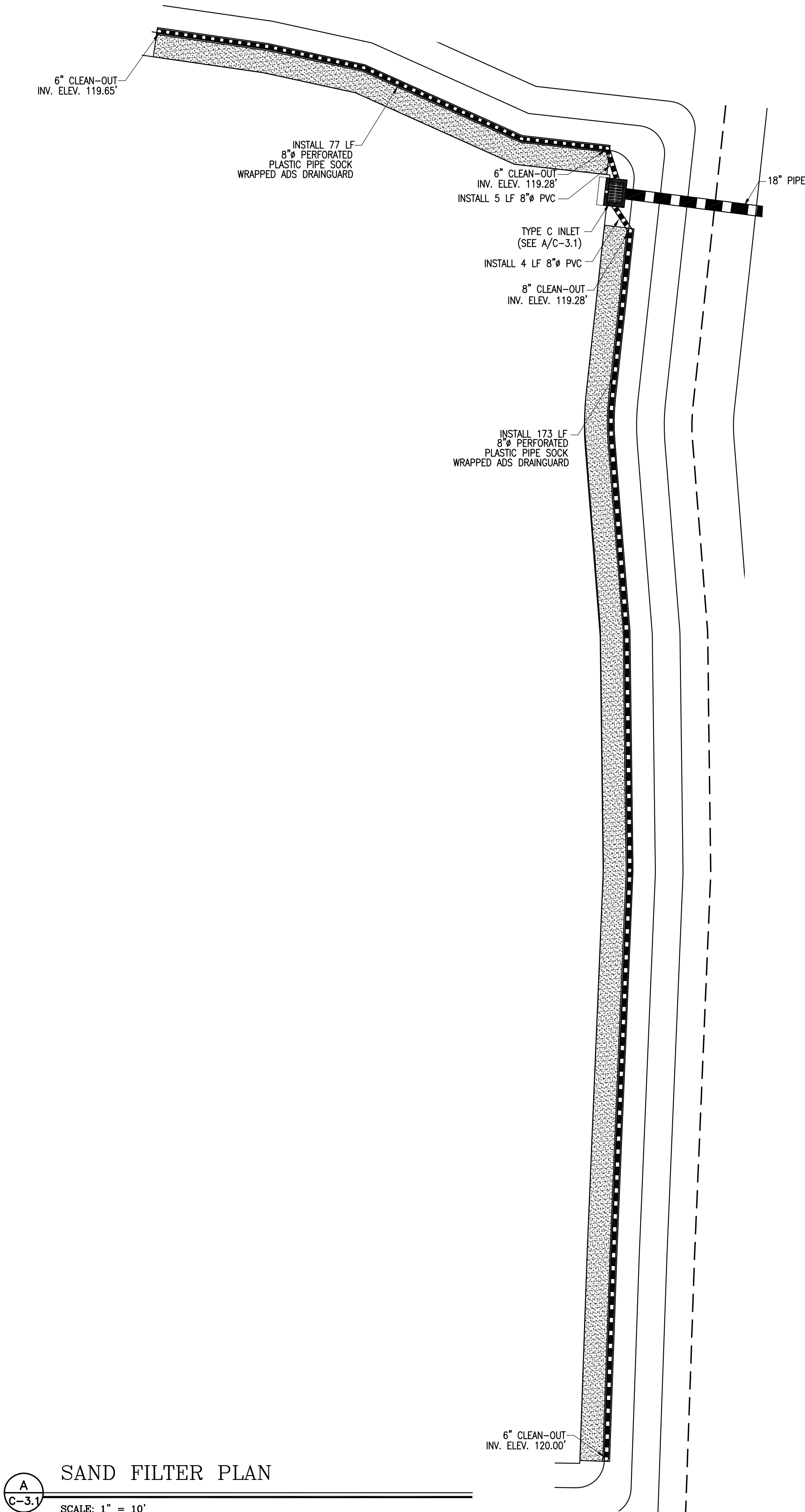
SHEET STORMWATER POND PLAN AND DETAILS

NEW FIRE STATION
FOR
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT
DATE: 08-2025
DRAWN BY: MMF
CHECKED BY: DHM

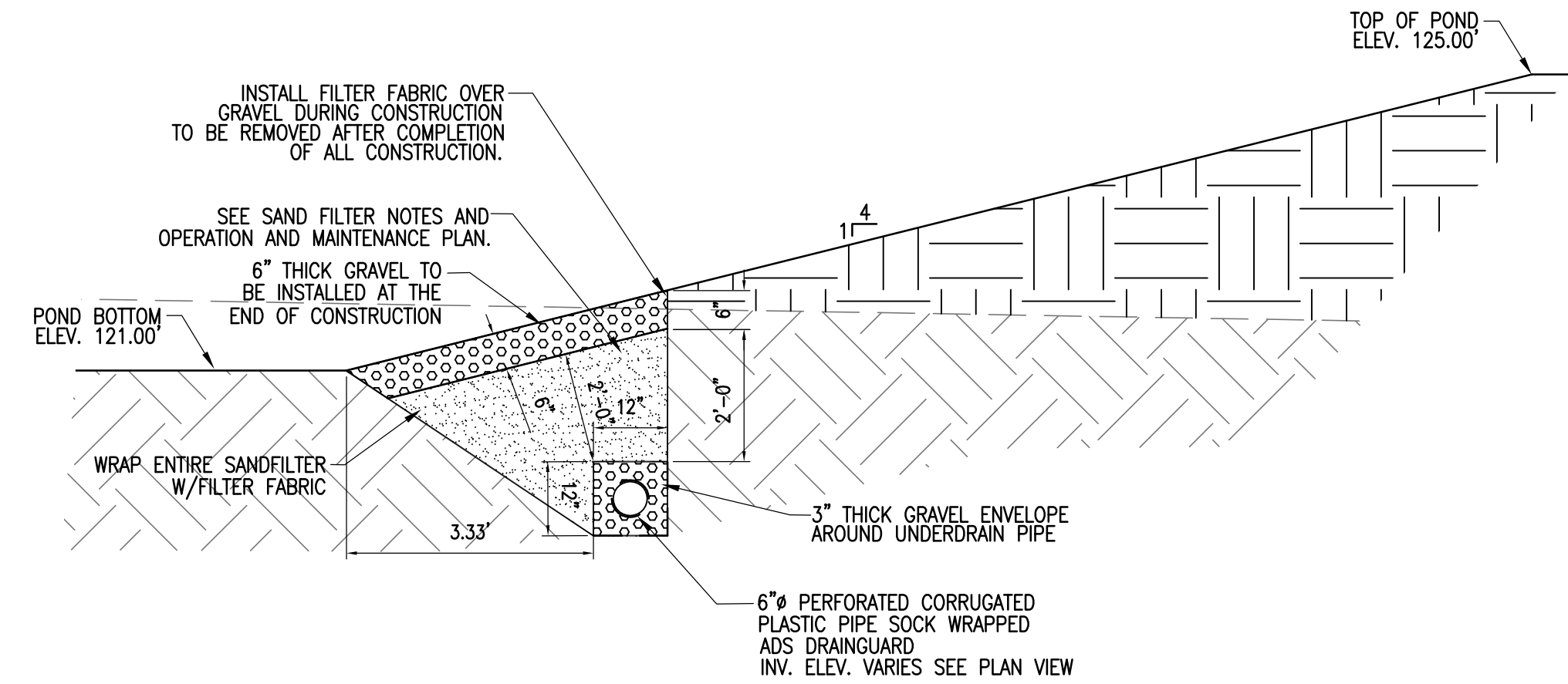
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SAND FILTER NOTES

1. SAND FOR SAND FILTER SHALL BE AS SPECIFIED IN THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 902-4 FOR TYPE V UNDERDRAINS AND SHALL CONFORM WITH THE FOLLOWING FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS:
 - A. CONTAIN LESS THAN 1% SILT, CLAY AND ORGANIC MATTER.
 - B. UNIFORMITY COEFFICIENT SHALL BE 1.5 TO 4.0.
 - C. EFFECTIVE GRAIN SIZE SHALL BE BETWEEN 0.20 AND 0.55 MM IN DIAMETER.
2. PERCOLATION RATE OF SAND SHALL BE 24 FT/DAY (1 FT/HR).
3. PRIOR TO BACKFILL, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION OF THE PERFORATED PIPE, GRAVEL AND FILTER FABRIC. (I.E. INSPECT UNDERDRAIN SYSTEM PRIOR TO BACKFILL).
4. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER OF RECORD A CERTIFIED GEOTECHNICAL REPORT FOR THE SAND FILTER MEDIA THAT DEMONSTRATES COMPLIANCE WITH THE ABOVE SPECIFICATIONS. CONTRACTOR SHALL ALSO PROVIDE A GEOTECHNICAL CERTIFICATION OF THE FILTER PERMEABILITY UTILIZING THE FIELD MEASUREMENTS OF THE SAND FILTER.



SAND FILTER DETAIL SECTION

B
C-3.1

SCALE: 1" = 2'

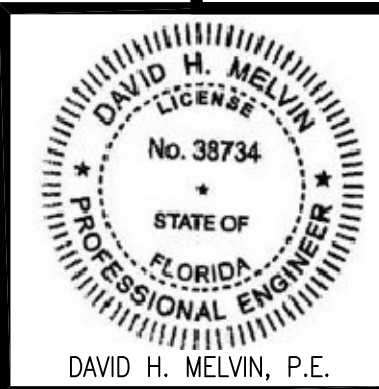
A
C-3.1

SAND FILTER PLAN

SCALE: 1" = 10'

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SHEET STORMWATER POND PLAN AND DETAILS

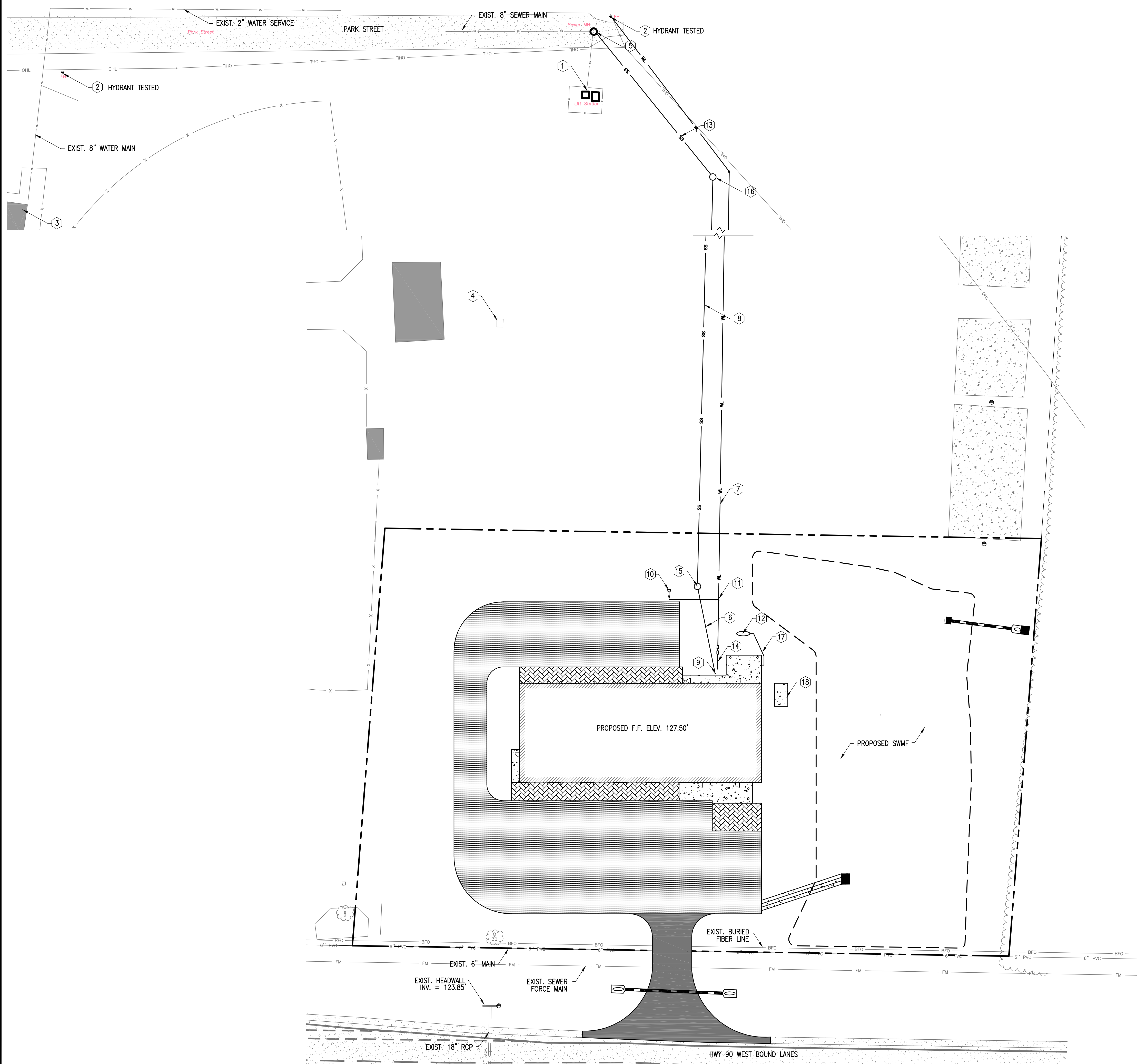
NEW FIRE STATION
FOR
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT
DATE:
08-2025
DRAWN BY:
MMF
CHECKED BY:
DHM

SHEET No.

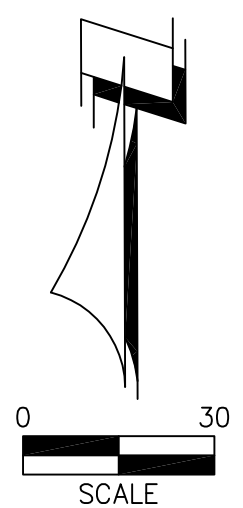
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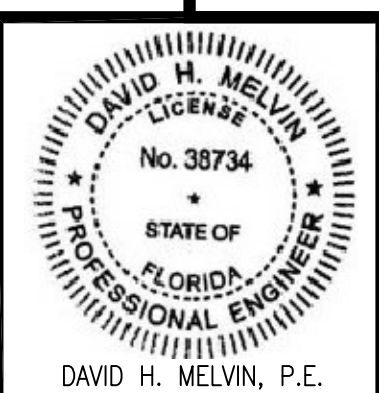
LEGEND

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- PROPOSED REGULAR CONCRETE
- PROPOSED STORMWATER MANAGEMENT FACILITY
- EXISTING CONTOURS
- EXISTING WATER LINE
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- EXIST. SEWER LINE
- PROPOSED MILLED ASPHALT
- PROPOSED ASPHALT
- PROPOSED HEAVY DUTY CONCRETE



UTILITY NOTES

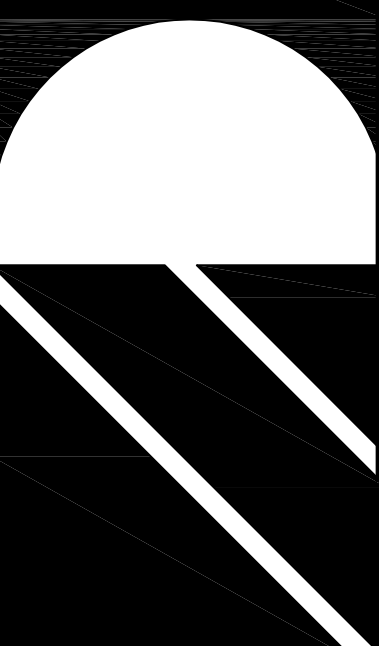
- EXISTING SEWER LIFTSTATION
- EXISTING FIRE HYDRANT
- EXISTING WELL
- EXISTING ELECTRICAL TRANSFORMER
- EXIST. SEWER MANHOLE
TOP ELEV. 121.51'
INV. ELEV. 116.08 (W)
INV. ELEV. 115.88 (S)
CORE 12" HOLE @ INV. ELEV. 116.00'. GROUT AROUND HOLE AND MAKE WATER TIGHT.
- CONSTRUCT 52 LF 6" SEWER LATERAL @ 5.28% SLOPE
- CONSTRUCT 533 LF 6" WATER MAIN
- CONSTRUCT 380 LF 8" SEWER MAIN @ 0.50% SLOPE
- INSTALL 6" CLEAN-OUT
INV. ELEV. = 124.75'
- INSTALL FIRE HYDRANT ASSEMBLY
- INSTALL 2"x6" REDUCER, TEE AND 2" GATE VALVE
- PROPOSED 250 GAL. UNDERGROUND STORAGE TANK (BY OTHERS)
- CONSTRUCT 110 LF 8" SEWER MAIN @ 3.75% SLOPE
- INSTALL 2" WATER LINE
- MH--1, INSTALL 4" SEWER MANHOLE
TOP ELEV. 126.50'
INV. ELEV. 122.00'
DEPTH = 4.0'
- MH--2, INSTALL 4" SEWER MANHOLE
TOP ELEV. 124.50'; INSTALL MH LID AT LEAST 12" ABOVE EXIST. GRADE
INV. ELEV. 120.00'
DEPTH = 4.5'
- INSTALL FUEL SERVICE LINE AND STUB-OUT (SEE PLUMBING PLAN FOR DETAILS)
- INSTALL 5'x8'x6" THICK CONCRETE SLAB FOR GENERATOR (SEE PLUMBING PLAN FOR DETAILS)



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SHEET UTILITY PLAN
TITLE:
NEW FIRE STATION
FOR:
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT
DATE:
08-2025
DRAWN BY:
MMF
CHECKED BY:
DHM

SHEET No.
C-4.0
100% COMPLETE
CONSTRUCTION DOCUMENTS

DHM
MELVIN ENGINEERING
EB-0005637 LC-0000277
MARIANNA OFFICE
4428 Lafayette Street
Marianna, FL 32446
Phone: (850) 482-3045

1. INTRODUCTION

THIS DOCUMENT IS INTENDED TO PROVIDE GUIDANCE TO THE RESPONSIBLE AUTHORITY/OPERATOR FOR THE CREATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES.

THE INFORMATION CONTAINED HEREIN IS ORGANIZED TO CORRESPOND TO THE ITEMS OUTLINED IN PART 4 OF THE FDEP FORM 62-621.300(4)(a) "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES". IT SHALL BE THE RESPONSIBILITY OF THE RESPONSIBLE AUTHORITY/OPERATOR TO DEVELOP THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN AND TO SUBMIT THE FDEP FORM 62-621.300(4)(b) "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" AT LEAST TWO (2) CALENDAR DAYS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. THE RESPONSIBLE AUTHORITY/OPERATOR SHALL POST A COPY OF THE NOTICE OF INTENT (NOI) OR ACKNOWLEDGMENT LETTER FROM FDEP AT THE CONSTRUCTION SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING. THE RESPONSIBLE AUTHORITY/OPERATOR SHALL ALSO MAINTAIN RECORDS OF THE SWPPP AND OTHER DOCUMENTS SPECIFIED IN THE GENERIC PERMIT AT THE CONSTRUCTION SITE TO BE AVAILABLE FOR REVIEW.

2. SITE DESCRIPTION

COUNTY: JACKSON
SECTION, TOWNSHIP, RANGE: 27, 4N, 08W
COUNTY PARCEL NO.: 27-4N-08-0000-0400-0022

STREET ADDRESS: HWY 90, GRAND RIDGE, FLORIDA
PROJECT AREA: 2.00+ACRES±
SITE LOCATION MAP: REFER TO CONSTRUCTION PLANS

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROJECT IS COMPRISED OF THE CONSTRUCTION OF 8,820 SF BUILDING, VEHICULAR USE AREA, ON-SITE STORMWATER FACILITY, NEW DRIVEWAY ON HWY 90 AND UTILITY IMPROVEMENTS.

ANTICIPATED START DATE: NOVEMBER 2025
ANTICIPATED COMPLETION DATE: NOVEMBER 2026

THE START AND END DATES FOR EACH MAJOR CONSTRUCTION ACTIVITY SHALL BE INCLUDED WITH THE SWPPP. THE SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES OUTLINED BELOW IS PROVIDED AS A GENERAL GUIDELINE. THE ACTUAL SEQUENCING AND DATES ARE TO BE PROVIDED IN THE SWPPP:

B. GENERAL SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

- PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE PRACTICES DESCRIBED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL' (CURRENT EDITION) AND FOOT STANDARD SPECIFICATION SECTION 104 (CURRENT EDITION).
- THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.
- ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
- THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
- IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION. THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.
- THE PERMANENT ROADWAYS/ DRIVEWAYS SHALL BE ROUGHLY GRADED.
- THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
- THE PERMANENT ROADWAY / DRIVEWAY SUBGRADE SHALL BE COMPACTED, A BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT OR CONCRETE PAVEMENT.
- UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
- UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND BE EXCAVATED TO THE DESIGN BOTTOM ELEVATION. ONCE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).
- ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THE CONSTRUCTION AND/OR LANDSCAPING PLANS. TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

C. SITE AREA ESTIMATES AND RUNOFF DATA:

TOTAL PROJECT SITE AREA: 2.00+ACRES±
TOTAL SITE AREA TO BE DISTURBED: 2.00+ACRES±

RUNOFF COEFFICIENTS:

PRE-DEVELOPMENT 'C' FACTOR: 0.38
POST-DEVELOPMENT 'C' FACTOR: 0.75

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF OFF-SITE FILL. REFER TO THE GENERAL NOTES SHEET IN THE CONSTRUCTION PLANS FOR INFORMATION REGARDING THE GEOTECHNICAL INVESTIGATIONS FOR THE SITE.

E. SITE MAP

REFER TO CONSTRUCTION PLANS

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY.

OUTFALL ID#	LOCATION	RECEIVING WATERBODY
C DBI	30°43'12N 85°01'02"W	N/A

3. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP), ALL CONVEYERS ARE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: THE VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES TO RETAIN SEDIMENT ON-SITE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS OUTLINED IN THE SWPPP, THE RESPONSIBLE AUTHORITY/OPERATOR OR OTHER SUBCONTRACTORS SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES, REGULAR INSPECTION AND MAINTENANCE OF THESE MEASURES IS REQUIRED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. THE FOLLOWING INFORMATION IS INTENDED TO PROVIDE GUIDANCE ON STANDARD MEASURES AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. PLEASE REFER TO THE SWPPP FOR SPECIFIC DETAILS AND REQUIREMENTS FOR THE SITE.

4. EROSION AND SEDIMENT CONTROLS

A. GENERAL STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY THE RESPONSIBLE AUTHORITY/OPERATOR. TYPE I SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE SWPPP. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN SEVEN (7) DAYS OR AS REQUIRED BY THE PERMITTING AGENCY, IN PORTIONS OF THE SITE WHERE CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASED. UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ANY ACCUMULATED SEDIMENT OR DEBRIS. ALL TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF FOOT STANDARD SPECIFICATION SECTION 570 AND EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO THE REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

B. GENERAL STORM STRUCTURE PROTECTION PRACTICES

A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION PLANS AND WILL BE COMPRISED OF A WET DETENTION FACILITY AND A STORM PIPE CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCES TO BE INSTALLED IN THE LOCATIONS SHOWN WITHIN THE CONSTRUCTION PLANS AND THE SWPPP. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED IN ACCORDANCE WITH THE MEASURES DETAILED IN THE SWPPP AND/OR THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL' (CURRENT EDITION) UNTIL CONSTRUCTION HAS BEEN COMPLETED. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBANCE ACTIVITIES, THE STORM PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT.

C. DRAINAGE AREAS SERVING LESS THAN 10 DISTURBED ACRES

DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR LESS ARE RECOMMENDED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED. SILT FENCES OR OTHER SEDIMENT CONTROL SHALL BE INSTALLED AS OUTLINE IN THE CONSTRUCTION PLANS AND THE SWPPP. LOCATIONS WHERE SILT FENCE SHALL BE INSTALLED INCLUDES, BUT IS NOT LIMITED TO, SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATIONS, OUTLET LOCATIONS, WETLAND SETBACKS, OR AS OTHERWISE NOTED IN THE SWPPP. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBING ACTIVITIES, SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. NOTE THAT EROSION CONTROL IS SUBJECT TO THE SWPPP AND MAY BE AMENDED BY THE RESPONSIBLE AUTHORITY/OPERATOR AS NEEDED TO ENSURE SEDIMENTATION IS ADEQUATELY CONTROLLED.

D. DRAINAGE AREAS SERVING MORE THAN 10 DISTURBED ACRES
DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR MORE ARE REQUIRED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED. SILT FENCES OR OTHER SEDIMENT CONTROL SHALL BE INSTALLED AS OUTLINE IN THE CONSTRUCTION PLANS AND THE SWPPP. LOCATIONS WHERE SILT FENCE SHALL BE INSTALLED INCLUDES, BUT IS NOT LIMITED TO, SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATIONS, OUTLET LOCATIONS, WETLAND SETBACKS, OR AS OTHERWISE NOTED IN THE SWPPP. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBING ACTIVITIES, SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. NOTE THAT EROSION CONTROL IS SUBJECT TO THE SWPPP AND MAY BE AMENDED BY THE RESPONSIBLY AUTHORITY/OPERATOR AS NEEDED TO ENSURE SEDIMENTATION IS ADEQUATELY CONTROLLED.

5. STORMWATER MANAGEMENT PRACTICES

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY, THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS; STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY.

B. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING.

C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIPRAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

6. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE SPECIFIED IN THE SWPPP OR APPROVED BY THE ENGINEER: PROVIDE LITTER COLLECTION AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES, DISPOSE OF ALL FERTILIZERS OR OTHER CHEMICAL CONTAINERS TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER, DISPOSE OF SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, OFF THE PROJECT SITE IN APPROVED LOCATIONS. NO MATERIALS SHALL BE DISPOSED OF IN SURFACE WATERS OR WETLANDS.

B. OFF-SITE VEHICLE TRACKING & DUST CONTROL

TO MINIMIZE OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE AND SOIL TRACKING PREVENTION DEVICE SHALL BE ESTABLISHED AT ALL CONSTRUCTION ENTRANCES. INCLUDE THE FOLLOWING METHODS IN ADDITION TO THOSE SPECIFIED IN THE SWPPP OR AS DIRECTED BY THE ENGINEER: COVER LOADED HAUL TRUCKS WITH TARPULINS, REMOVE EXCESS DIRT FROM ROADS DAILY, USE ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION OR MILLING OPERATIONS.

C. TEMPORARY POTABLE WATER AND SANITARY SEWER SYSTEMS

ENSURE THAT TEMPORARY/CONSTRUCTION POTABLE CONNECTIONS TO EXISTING PUBLIC WATER MAINS ARE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: THE OWNER'S REQUIREMENTS. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE WILL BE DIRECTED BY THE LANDSCAPE PLAN AND TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THE VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVERUSE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. HAZARDOUS MATERIAL

THE SWPPP SHALL PROVIDE A LIST OF HAZARDOUS MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES. THE CONSTRUCTION SITE MUST BE IN COMPLIANCE WITH STATE (FDEP RULE CHAPTER 62-25 F.A.C.) AND FEDERAL REQUIREMENTS. IN ADDITION, THE CONSTRUCTION SITE SHALL BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL CODES, ORDINANCES, OR REQUIREMENTS.

7. CHANGES TO THE STORMWATER POLLUTION PREVENTION PLAN

THE SWPP SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGES IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE RESPONSIBLE AUTHORITY/OPERATOR RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL REVISE THE SWPPP TO REFLECT THE CHANGES. THE SWPPP WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES, AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

8. MAINTENANCE

THE SWPPP SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT THE DURATION OF THE PROJECT. THE MAINTENANCE PLAN SHOULD, AT A MINIMUM, THE SWPPP SHOULD COMPLY WITH THE FOLLOWING:

- SILT FENCE: MAINTAIN PER FOOT STANDARD SPECIFICATION SECTION 104. ANTICIPATE REPLACEMENT OF SILT FENCE ON 12 MONTH INTERVALS.
- SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURE'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
- STORMWATER PONDS: REMOVE SEDIMENT FROM THE PONDS OR BASINS WHEN IT BECOMES 1.5' DEEP AT ANY POINT OR AS DIRECTED BY THE ENGINEER
- IF REPAIRS ARE REQUIRED TO ANY OF THE EROSION AND SEDIMENT CONTROLS, IT SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED.

12. INSPECTIONS

INSPECTION OF THE PROJECT SITE AND SEDIMENT & EROSION CONTROLS SHALL BE DONE IN ACCORDANCE WITH THE SWPPP. AT A MINIMUM, QUALIFIED PERSONNEL SHALL INSPECT ITEMS A - G AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF STORM EVENT THAT IS 0.50 INCHES OR GREATER. IN ORDER TO ENSURE COMPLIANCE, RAIN GAUGE(S) SHALL BE INSTALLED AND MAINTAINED AT THE PROJECT SITE TO RECORD THE DAILY RAINFALL AMOUNTS. IN PORTIONS OF THE PROJECT WHERE PERMANENT STABILIZATION HAS BEEN COMPLETED, CONDUCT INSPECTIONS AT LEAST ONCE EVERY MONTH.

ALL INSPECTIONS ARE TO BE RECORDED AND INCLUDE THE NAME(S) AND QUALIFICATION OF THE INSPECTOR, THE DATE OF INSPECTION, RAINFALL DATA, LOCATION AND CONDITION OF CONTROL MEASURES, OBSERVATIONS, AND CORRECTIVE ACTIONS RECOMMENDED. A COPY OF THE SWPPP INSPECTION REPORT FORM FROM FDEP HAS BEEN INCLUDED ON THIS SHEET AS AN EXAMPLE. ALSO, INSPECT AND ENSURE THAT CONTROLS INSTALLED IN THE FIELD CORRESPOND TO THOSE SPECIFIED ON THE CURRENT SWPPP.

AREAS TO INSPECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES
- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS (MS4)
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
- STRUCTURAL CONTROLS
- STORMWATER MANAGEMENT SYSTEMS
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, OR PREVENT DISCHARGE OF POLLUTANTS, PROVIDE ADDITIONAL MEASURES AS REQUIRED AND THE RESPONSIBLE AUTHORITY/OPERATOR SHALL REVISE THE SWPPP ACCORDINGLY.

13. NON-STORMWATER DISCHARGES

REFER TO THE SWPPP FOR ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOW FROM FIRE FIGHTING ACTIVITIES). THE SWPPP SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT THE POLLUTION OF THESE NON-STORMWATER DISCHARGES. SUCH DISCHARGES MAY INCLUDE IRRIGATION OPERATIONS OR RUNOFF GENERATED FROM CONSTRUCTION PRACTICES.

14. CONTRACTORS CERTIFICATION

ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS WORKING WITHIN THE PROJECT AREA SIGN THE FOLLOWING CERTIFICATION, AN EXAMPLE FORM HAS BEEN PROVIDED ON THIS SHEET:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

15. RETENTION OF RECORDS

THE RESPONSIBLE AUTHORITY/OPERATOR SHALL RETAIN COPIES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ALL REPORTS REQUIRED BY THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, AND ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE HAS REACHED FINAL STABILIZATION AND THE NOTICE OF TERMINATION (N.O.T) IS SUBMITTED.

16. NOTICE OF TERMINATION

WHEN THE SITE HAS REACHED FINAL STABILIZATION AND ALL STORMWATER DISCHARGE AUTHORIZED BY THE GENERIC PERMIT HAS BEEN ELIMINATED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL SUBMIT A NOTICE OF TERMINATION (FDEP FORM 62-621.300(6)) THAT IS SIGNED IN ACCORDANCE WITH PART VI.C OF FDEP DOCUMENT NO. 62.621.300(4)(g) WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT. THE ELIMINATION OF STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES MEANS THAT ALL DISTURBED SOILS AT THE SITE FINAL BEEN FINALLY STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED. FOR CONSTRUCTION ACTIVITIES WHERE THE RESPONSIBLE AUTHORITY/OPERATOR CHANGES, THE CURRENT RESPONSIBLE AUTHORITY/OPERATOR SHALL FILE A NOTICE OF TERMINATION WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO THE NEW RESPONSIBLE AUTHORITY/OPERATOR. NOTE THAT COVERAGE UNDER THE GENERIC PERMIT IS NOT TRANSFERABLE.

THE NOTICE OF TERMINATION CAN BE SUBMITTED EITHER OF THE FOLLOWING WAYS:

- ONLINE AT <http://www.fdepportal.com/gs/>
- EMAIL TO NPDES-stormwater@dep.state.fl.us
- MAIL TO THE FOLLOWING ADDRESS:
NPDES STORMWATER NOTICES CENTER, MS# 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

IF THE PROJECT DISCHARGES TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE RESPONSIBLE AUTHORITY/OPERATION SHALL ALSO SUBMIT A COPY OF THE NOTICE OF TERMINATION OR THE ACKNOWLEDGEMENT LETTER WITHIN SEVEN (7) CALENDAR DAYS OF RECEIPT TO THE OPERATOR OF THE MS4.

17. OWNER'S INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AND NOTICE OF TERMINATION, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE STORMWATER SYSTEM. THE ENTIRE STORMWATER SYSTEM SHOULD BE INSPECTED ON AT LEAST A SEMI-ANNUAL BASIS. THIS SHOULD INCLUDE A VISUAL INSPECTION OF THE POND, POND BANKS, BLEED-DOWN ORIFICES, OTHER CONTROL STRUCTURES, AND DISCHARGE PIPES. THESE SHOULD BE KEPT FREE OF DEBRIS AND CLEANED ON A FREQUENCY AS REQUIRED TO KEEP THEM FUNCTIONAL, AS DESIGNED. MOWING/CLEARING AROUND THE STRUCTURES MAY BE REQUIRED TO PREVENT VEGETATION FROM CLOGGING THEM. SEDIMENT SUMPS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW THEM TO EFFICIENTLY REMOVE SUSPENDED PARTICLES. THEY SHOULD BE RE-DUG TO THE ORIGINAL DESIGN SPECIFICATIONS, IF SILTED IN.

FOR PERCOLATION TREATMENT PONDS/SWALES, THE OWNER OF THE FACILITY SHALL INSPECT THE POND BOTTOM PERIODICALLY AFTER HEAVY RAINFALL EVENTS TO CHECK FOR PERSISTENT PONDING OR POOLING OF WATER. ALL LARGE DEBRIS SHALL BE REMOVED AND DISPOSED OF ELSEWHERE. IF PROLONGED PONDING PERSISTS, I.E., IN EXCESS OF 72 HOURS, THE OWNER SHALL RAKE OR SCARIFY THE SURFACE. IF REQUIRED, THE SOIL IN THE AREA OF PONDING SHALL BE REMOVED AND REPLACED WITH CLEAN SANDY, NON-COHESIVE SOILS.

SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. PLEASE BE AWARE OF ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE PERMIT COMPLIANCE.

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: _____ FDEP NPDES Stormwater Identification Number: FLR _____

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective Action / Other Remarks

Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Name	Qualification	Date
------	---------------	------

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority)	Date
------------------------------	------

CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT

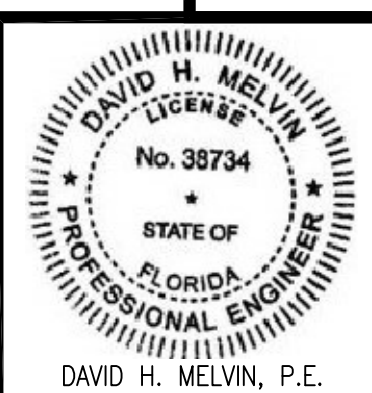
SITE NAME: _____

SITE LOCATION: _____

NOTE: THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

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

DATE	RESPONSIBLE INDIVIDUAL NAME	RESPONSIBLE INDIVIDUAL SIGNATURE	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER



DAVID H. MELVIN, P.E.

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2910 CALEDONIA ST.
MARIANNA, FL 32446

OFFICE: (850) 482-8601



SHEET STORMWATER POLLUTION PREVENTION PLAN

NEW FIRE STATION

FOR:

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT

DATE: 08-2025

DRAWN BY: MMF

CHECKED BY: DHM

SHEET No.

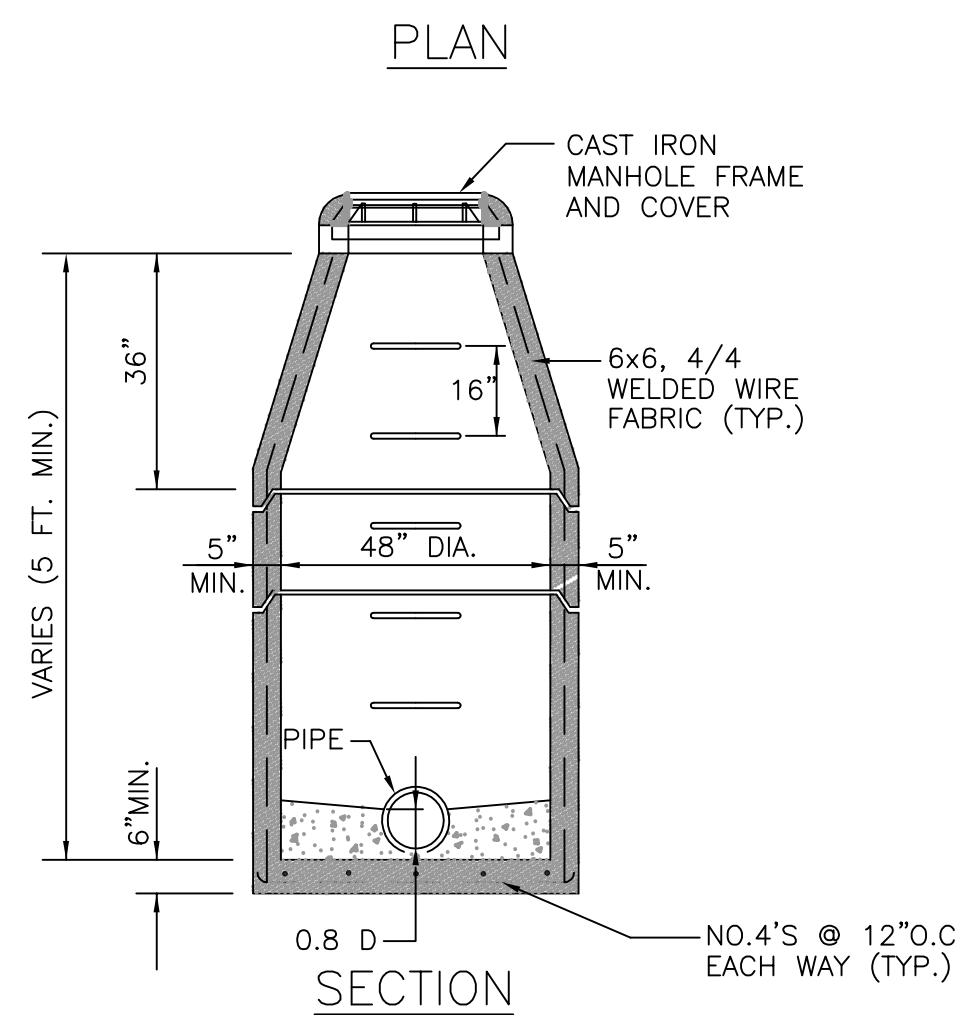
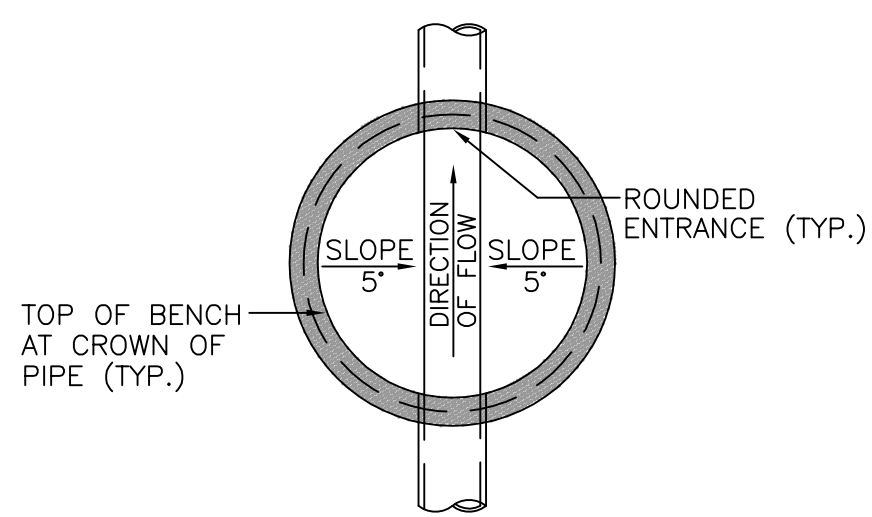
C-5.0

100% COMPLETE
CONSTRUCTION DOCUMENTS

DHM
MELVIN ENGINEERING

MARIANNA OFFICE
4428 Lafayette Street
Marianna, FL 32446
Phone: (850) 482-3045

EB-0005637 LC-0000277



MANHOLE TYPE "A"
N.T.S.

4 FT. DIA. PRECAST CONC. MANHOLE FOR DEPTHS MORE THAN 5 FT.

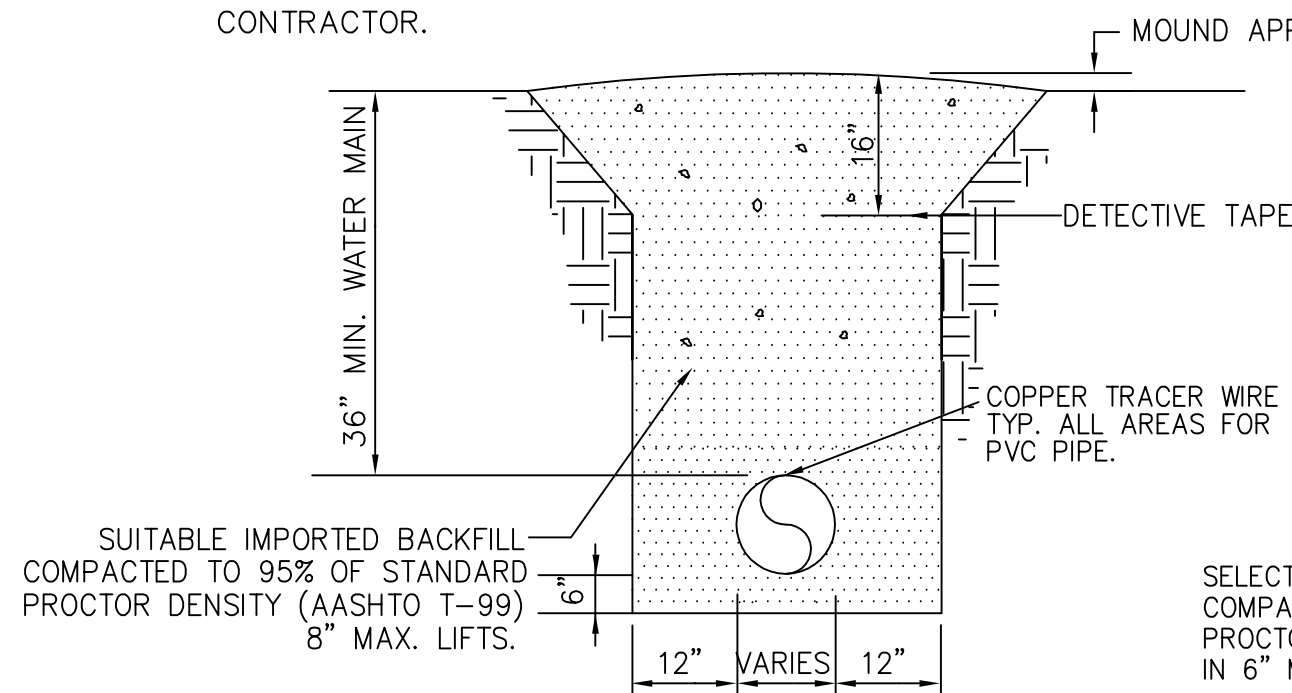
GENERAL NOTES:

1. PRECAST MANHOLE SECTIONS AND GRADE RINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM SPECIFICATIONS C-478 AND C-76 WITH 4000 P.S.I. CONCRETE, TYPE II CEMENT, STANDARD WALL THICKNESS SHALL BE 5" WITH A SINGLE LAYER OF 6 X 6, 4/4 WELDED WIRE FABRIC (0.192" WIRE DIA.) FOR ALL MANHOLES.
2. CONCRETE TOP SLABS, WHERE REQUIRED, SHALL BE CAPABLE OF SUPPORTING THE OVERBURDEN PLUS A LIVE LOAD EQUIVALENT TO AASHTO H-20 LOADING.
3. PRE-MOULDED POLYURETHANE COMPRESSION JOINTS ON ALL INFLUENT AND EFFLUENT ADAPTERS MEET OR EXCEED ASTM. SPECIFICATIONS C-425.
4. ALIGN TOP OPENING WITH CENTER LINE OF EFFLUENT LINE FROM MANHOLE.
5. ALIGN STEPS VERTICALLY OVER CENTER LINE OF EFFLUENT LINE FROM MANHOLE.
6. SEE SPECIFICATION FOR COMPACTION REQUIREMENTS OF TYPE "D" BACKFILL.
7. MANHOLE STEPS SHALL BE DRIVEN INTO PRECAST 3 5/8" DEEP, TAPERED HOLE.
8. MANHOLE "LIFT HOLES" SHALL BE A MAXIMUM OF 3 1/2" DEEP, 16" ON CENTER VERTICALLY.

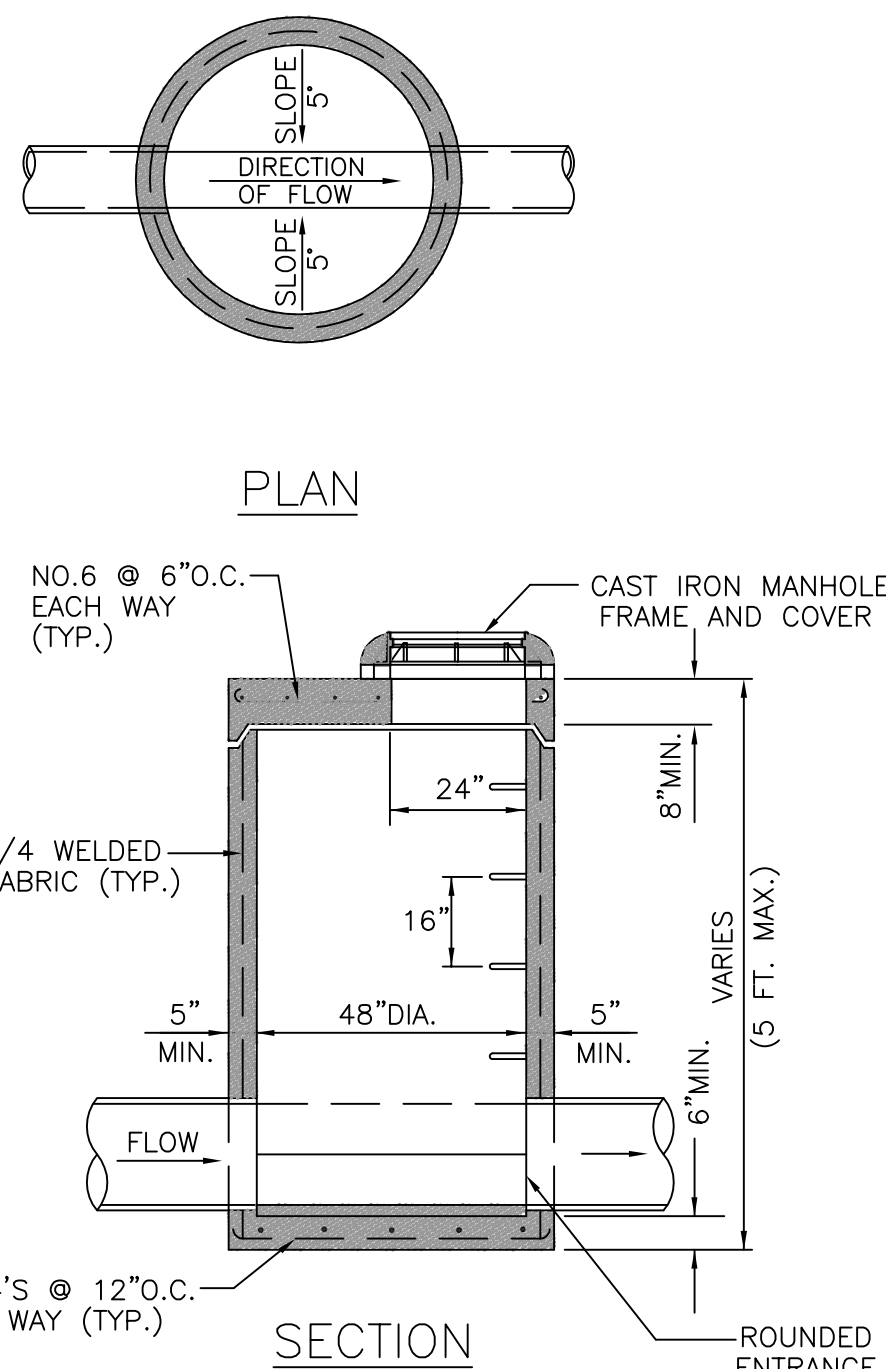
UTILITY TRENCH NOTES:

1. DETECTIVE TAPE REQUIRED OVER ALL TYPES OF PIPE 1" OR LARGER INCLUDING SEWER SERVICES BUT EXCLUDING SEWER MAIN AND WATER SERVICES.
2. COPPER TRACER WIRE REQUIRED ON ALL NON-METAL PIPE INCLUDING WATER SERVICES BUT EXCLUDING GRAVITY SEWER AND SEWER SERVICES.
3. WHERE TRENCH EXCAVATION EXCEEDS 5 FEET IN DEPTH THE FOLLOWING SHALL BE ADHERED TO:

- A. INCLUDE OSHA STANDARD 29 CFR, SECTION 1926.650 SUBPART P.
- B. THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH OSHA STANDARD 39 CFR, SECTION 1926.650 SUBPART P.
- C. A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE.
- D. A TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.

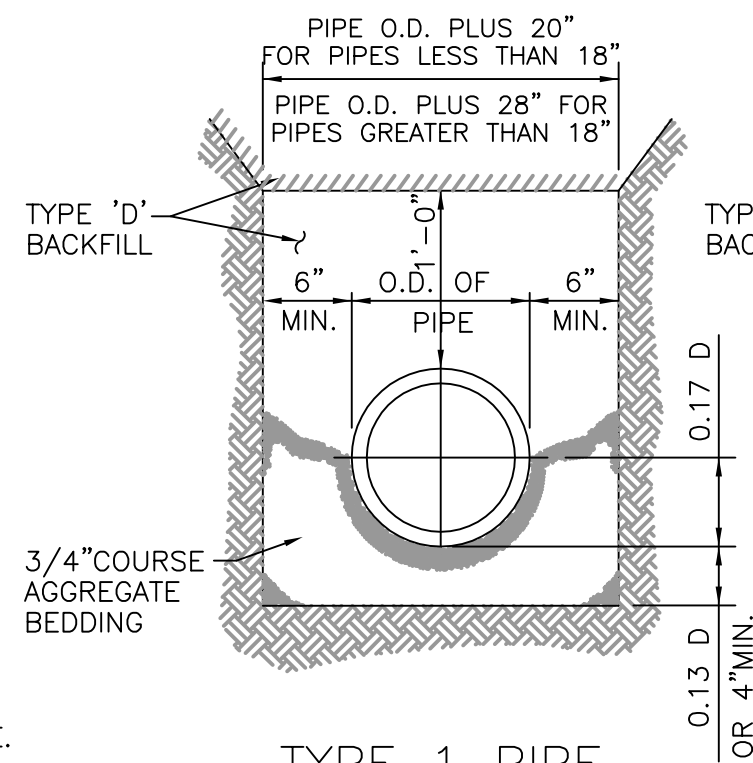


UNPAVED STREET &
STREET SHOULDER AREAS

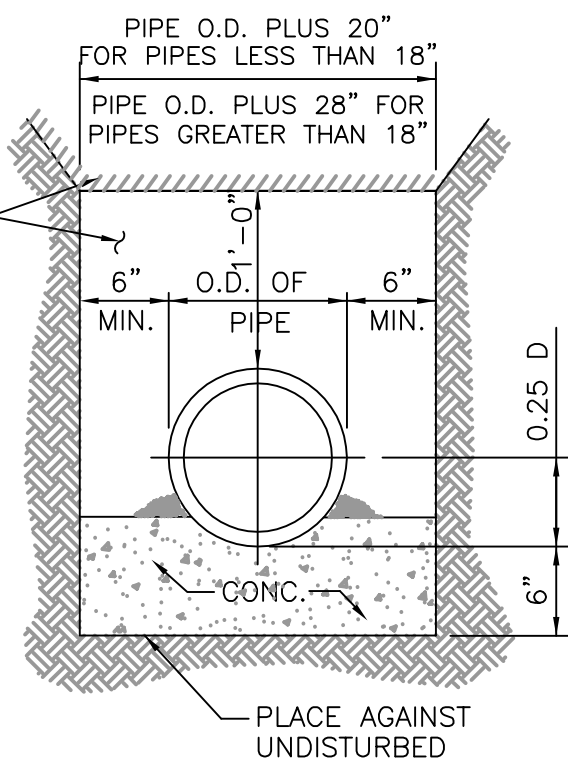


MANHOLE TYPE "D"
N.T.S.

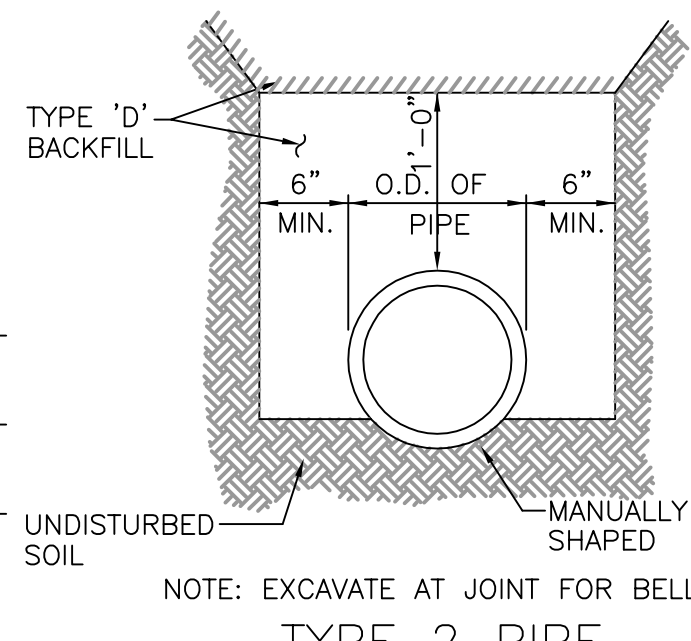
4 FT. DIA. PRECAST CONC. MANHOLE FOR DEPTHS OF 5 FT. AND LESS



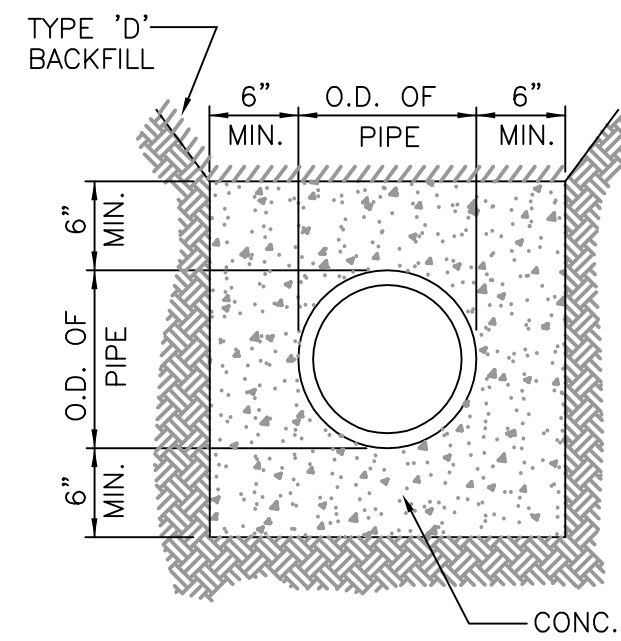
TYPE 1 PIPE
ENVELOPE



CONCRETE CRADLE



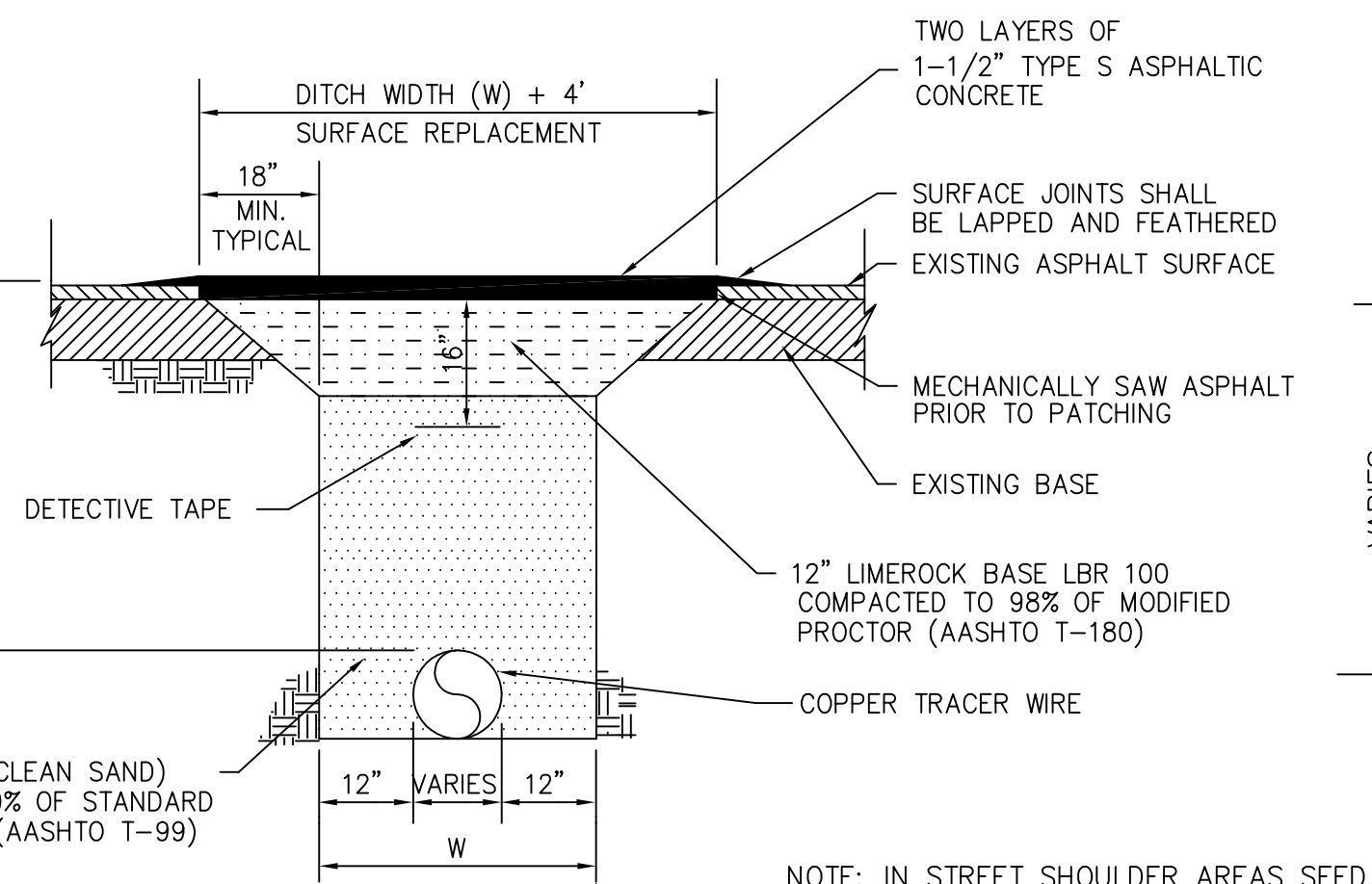
TYPE 2 PIPE
ENVELOPE (MIN.)



CONCRETE ENCASEMENT

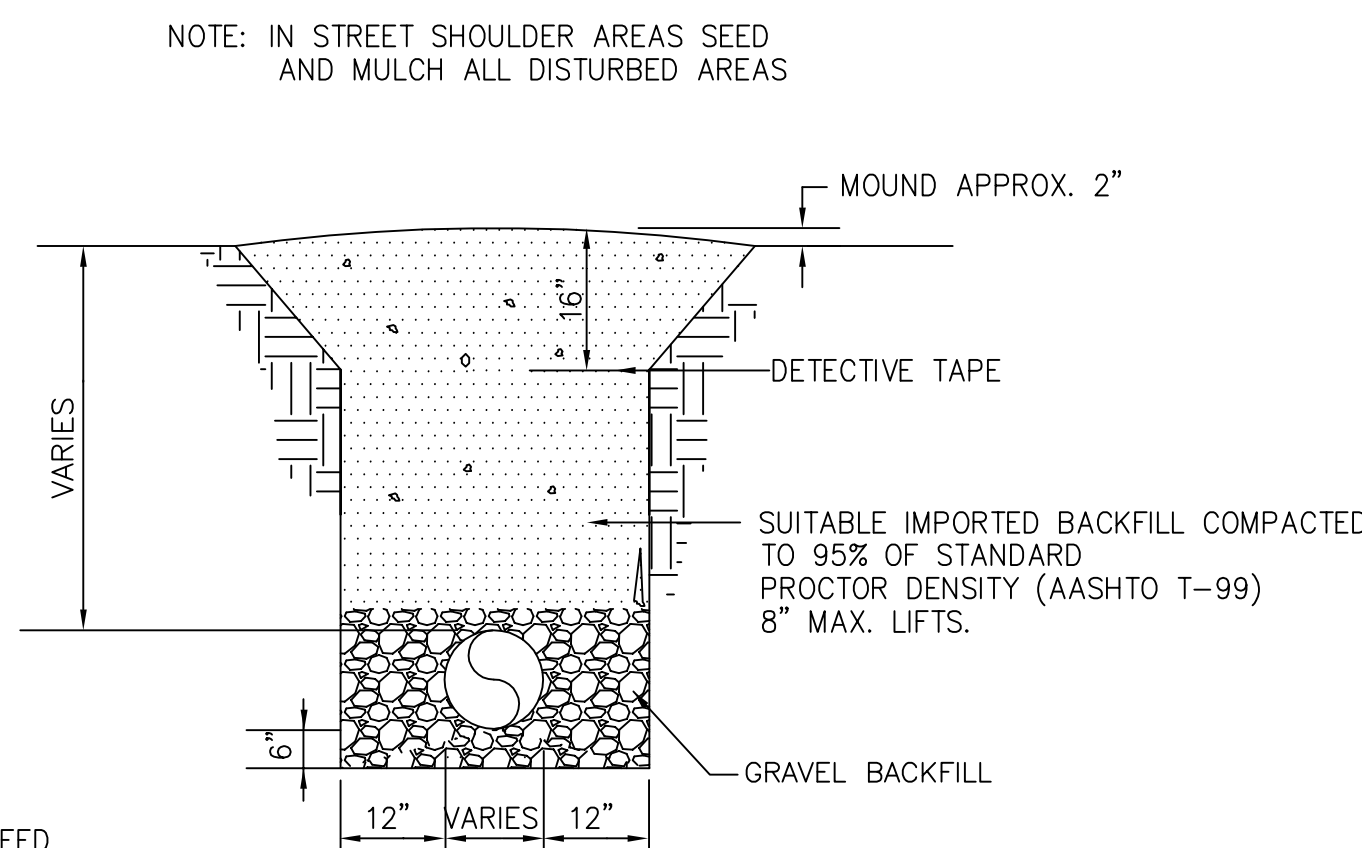
PIPE TRENCH DETAILS

NTS

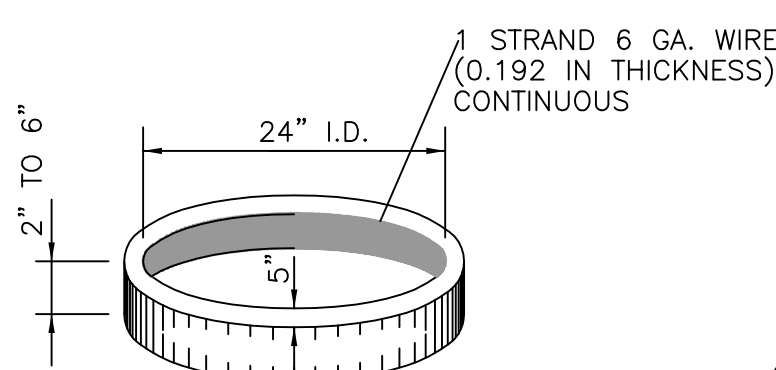


UTILITY CONSTRUCTION
IN PAVED STREETS

UTILITY TRENCH DETAILS



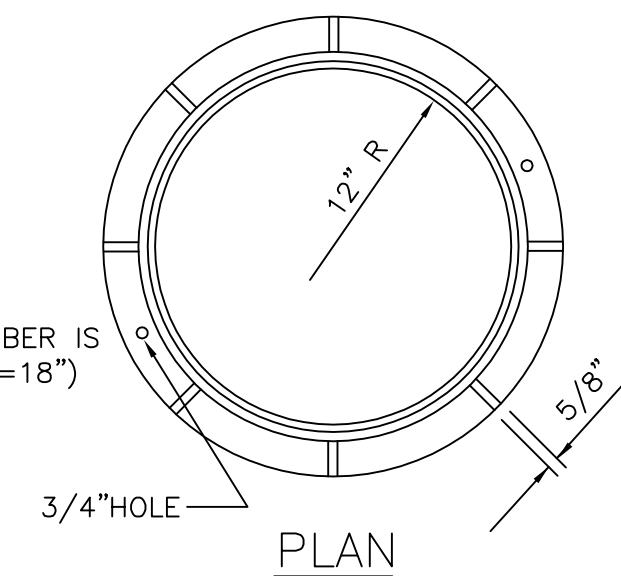
GRAVITY SEWER
TRENCH BACKFILL DETAIL



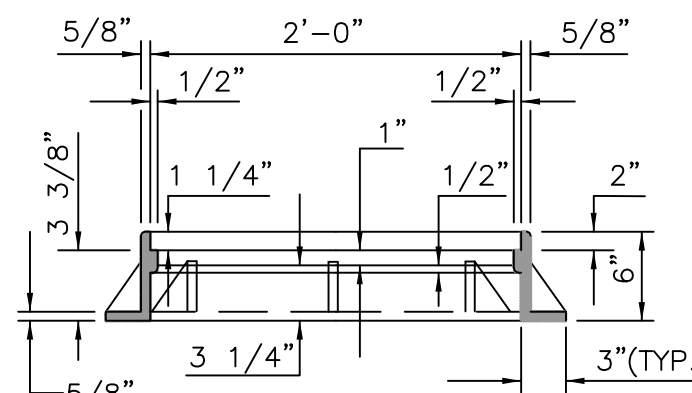
ADJUSTMENT RING
DETAIL

N.T.S.

NOTE: MAXIMUM NUMBER IS THREE (TOTAL=18")



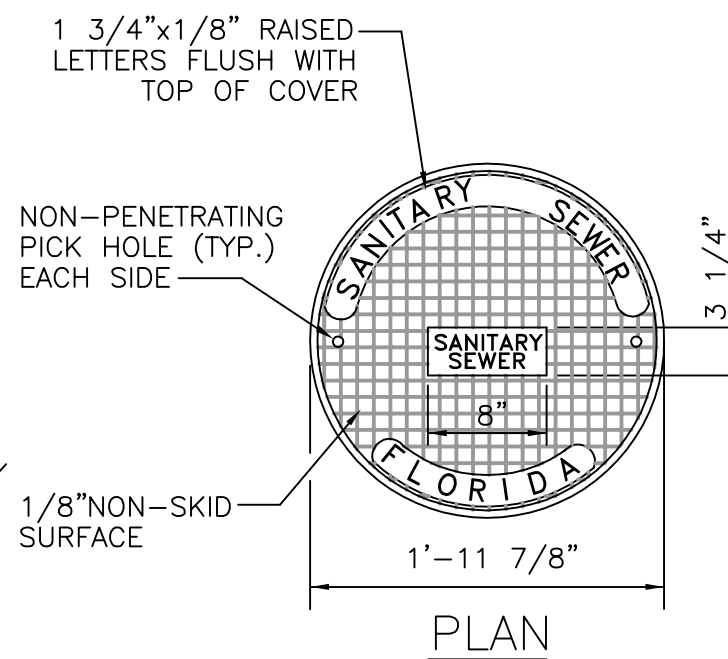
PLAN



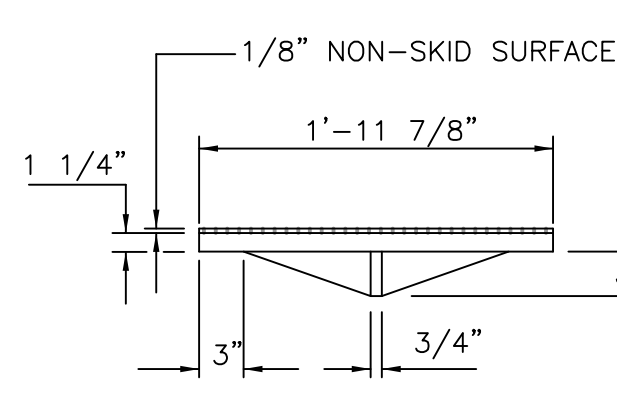
SECTION

FRAME AND COVER DETAILS

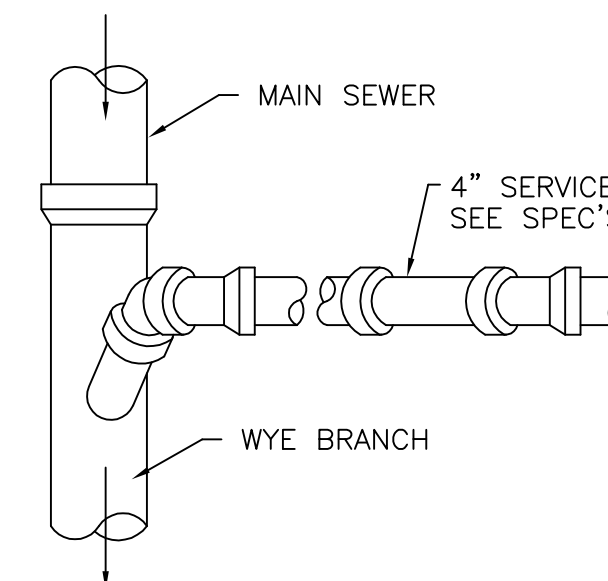
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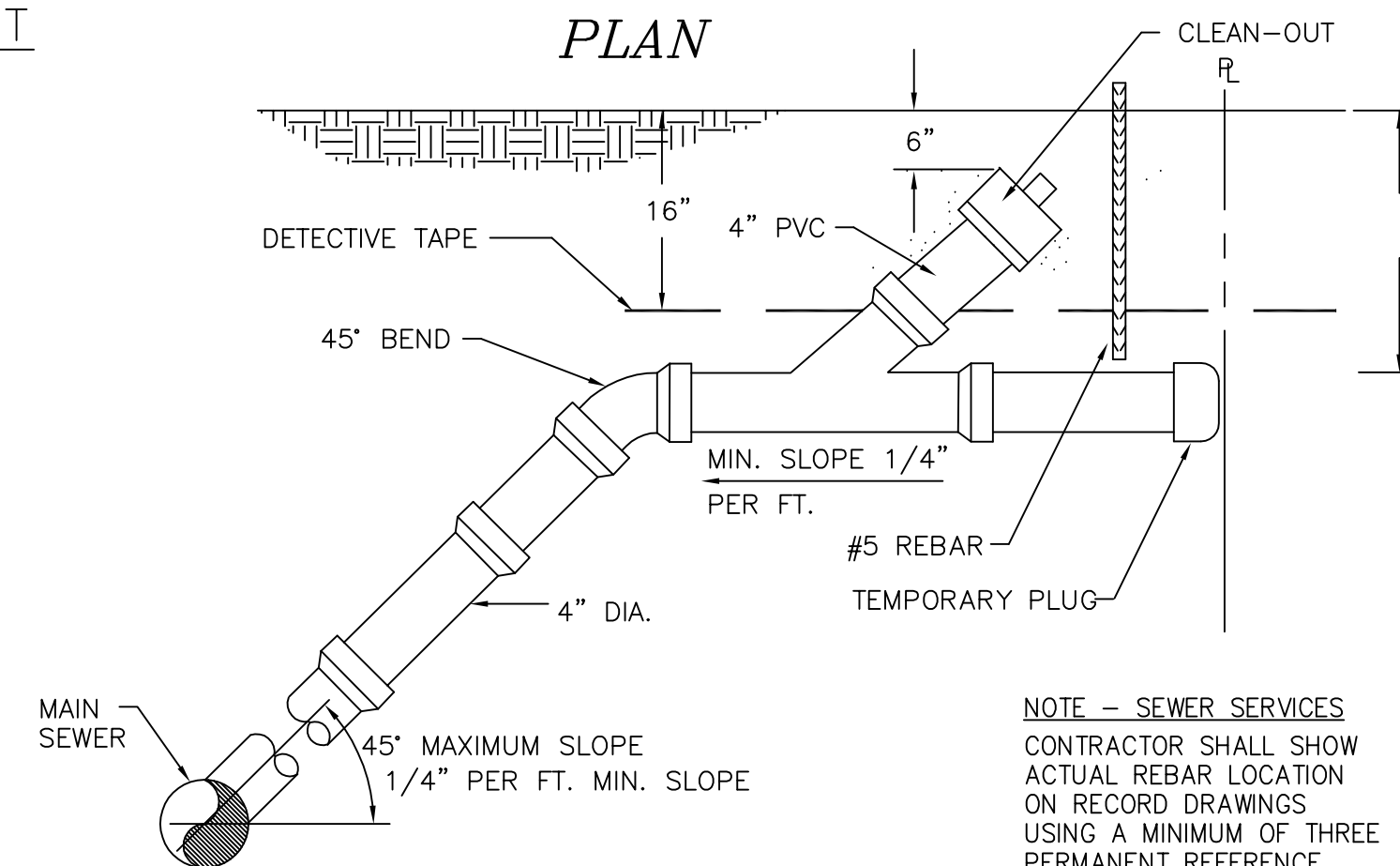
PLAN



SECTION



PLAN



SECTION

TYP. SEWER SERVICE CONNECTION

NTS

NOTE - SEWER SERVICES CONTRACTOR SHALL SHOW ACTUAL REBAR LOCATION ON RECORD DRAWINGS USING A MINIMUM OF THREE PERMANENT REFERENCE POINTS

DHM
MELVIN ENGINEERING

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P.O. BOX 861
MARIANNA, FL 32447
FAX: (850) 482-8609

SHEET UTILITY DETAILS

TITLE:

NEW FIRE STATION

FOR:

GRAND RIDGE FIRE DEPARTMENT

FOR:

GRAND RIDGE FIRE DEPARTMENT

FOR:

GRAND RIDGE FIRE DEPARTMENT

JOB NUMBER:

GRD22MT

DATE:

08-2025

DRAWN BY:

MMF

CHECKED BY:

DHM

SHEET No.

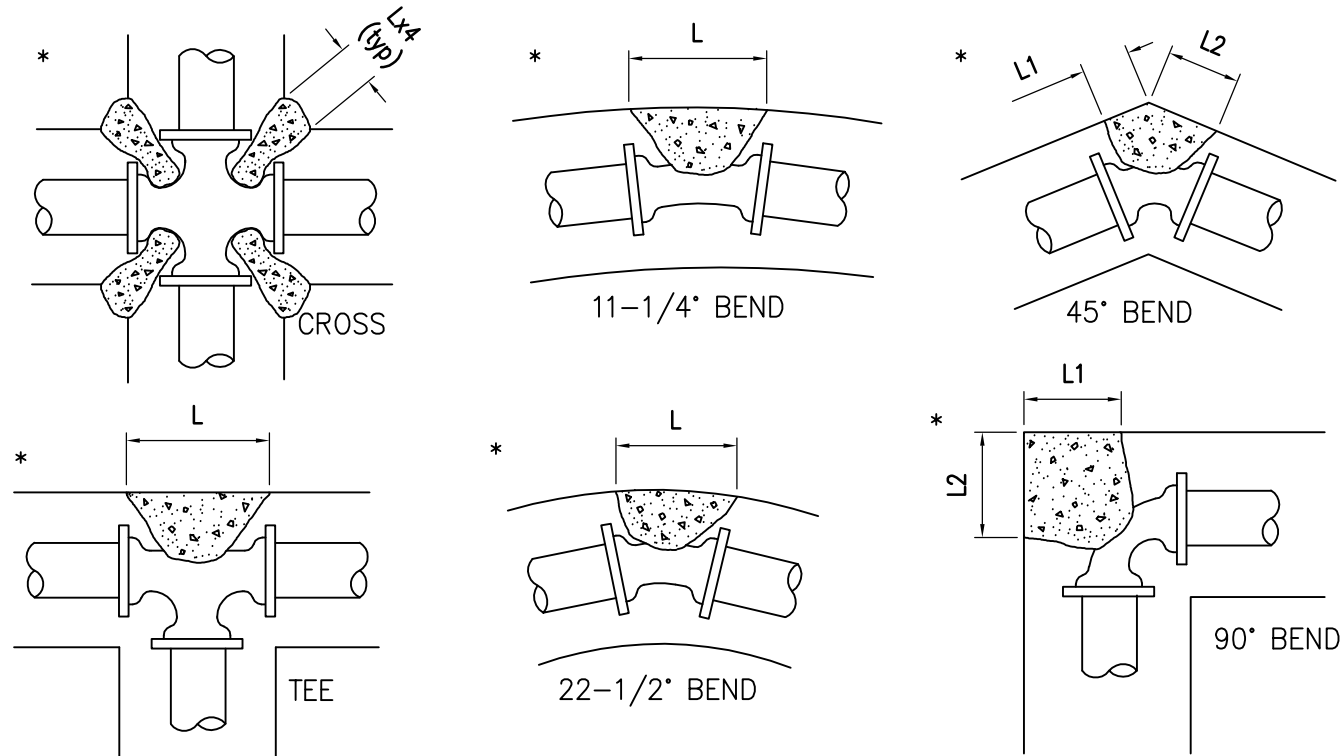
C-6.1

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CONSTRUCTION DOCUMENTS

REQUIRED THRUST BLOCK AREAS

BASED ON 150 P.S.I. TEST PRESSURE

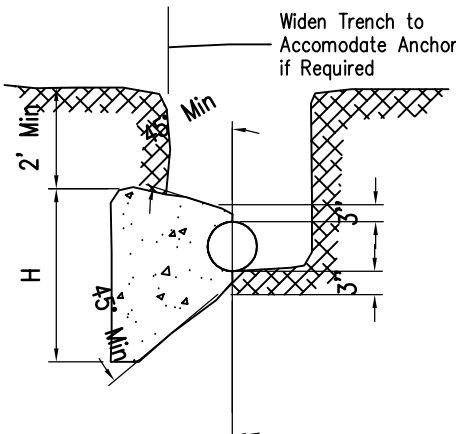
Bearing Area Table (Square Feet = Total "L" x "H")						
PIPE SIZE	TEE OR PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	CROSS
4"	1.0	1.5	1.0	1.0	1.0	2.0
6"	2.5	3.0	2.0	1.0	1.0	5.0
8"	4.0	5.5	3.0	2.0	1.0	8.0
10"	6.0	8.5	5.0	3.0	1.5	6.0
12"	8.5	12.0	7.0	4.0	2.0	17.0



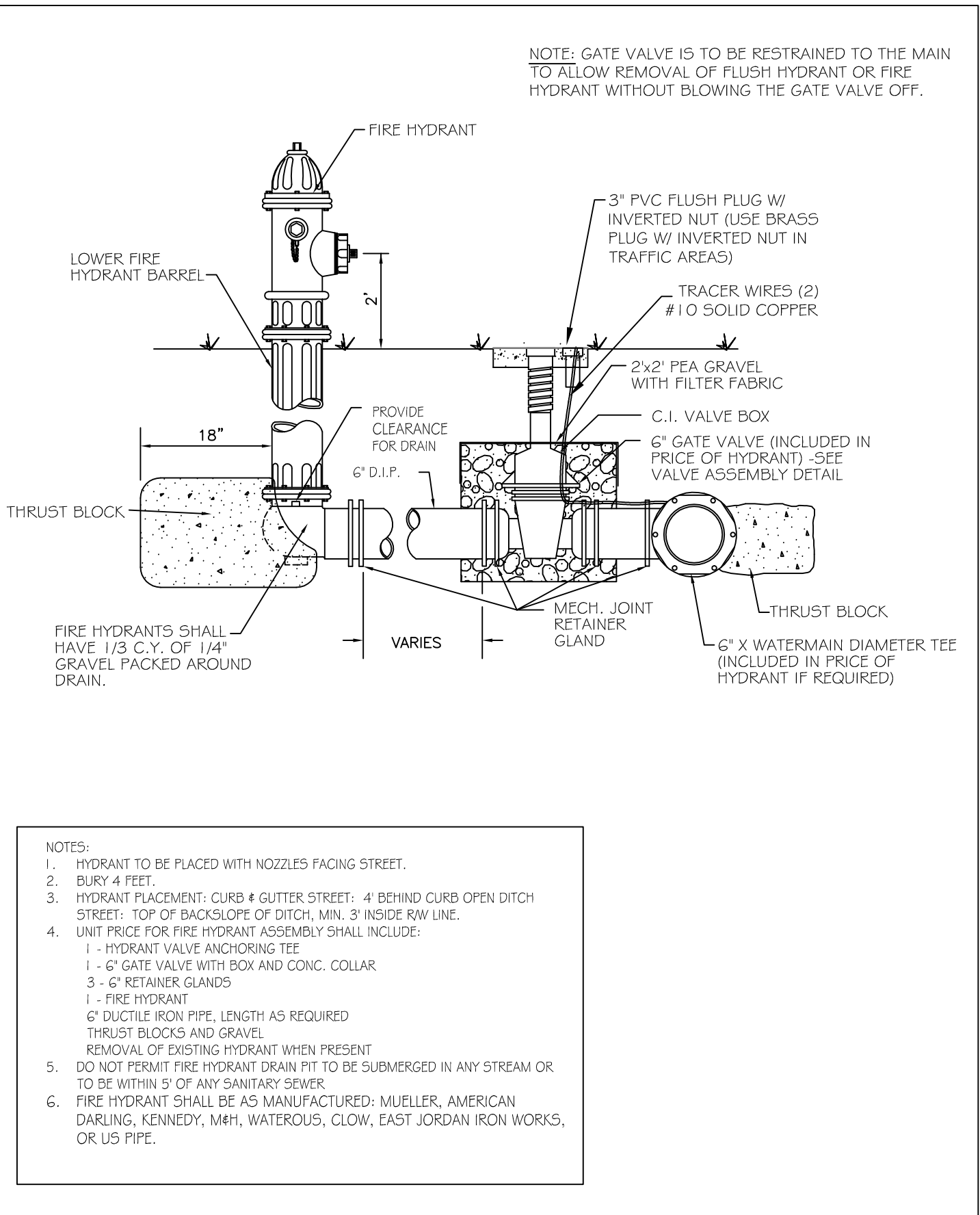
* ALSO REQUIRE MECHANICAL JOINT RETAINER GLANDS
(SEE THRUST BLOCK NOTE No. 5)

THRUST BLOCK NOTES:

- THRUST BLOCKS SHALL BE USED FOR ALL WATER MAINS AND SHALL BE PLACED AGAINST UNDISTURBED EARTH IN TRENCH.
- THRUST BLOCKS SHALL BE FORMED AND POURED IN SUCH A MANNER TO AVOID COVERING OR PROHIBITING ACCESS TO PIPE JOINTS.
- MINIMUM OF 2500 P.S.I. CONCRETE WILL BE USED.
- ALL FITTINGS SHALL BE WRAPPED IN 5 MIL PLASTIC TO PREVENT THE CONCRETE FROM BONDING TO THE FITTING.
- THRUST BLOCKS AND MECHANICAL JOINT RETAINER GLANDS ARE REQUIRED ON ALL FITTINGS.



SECTION VIEW

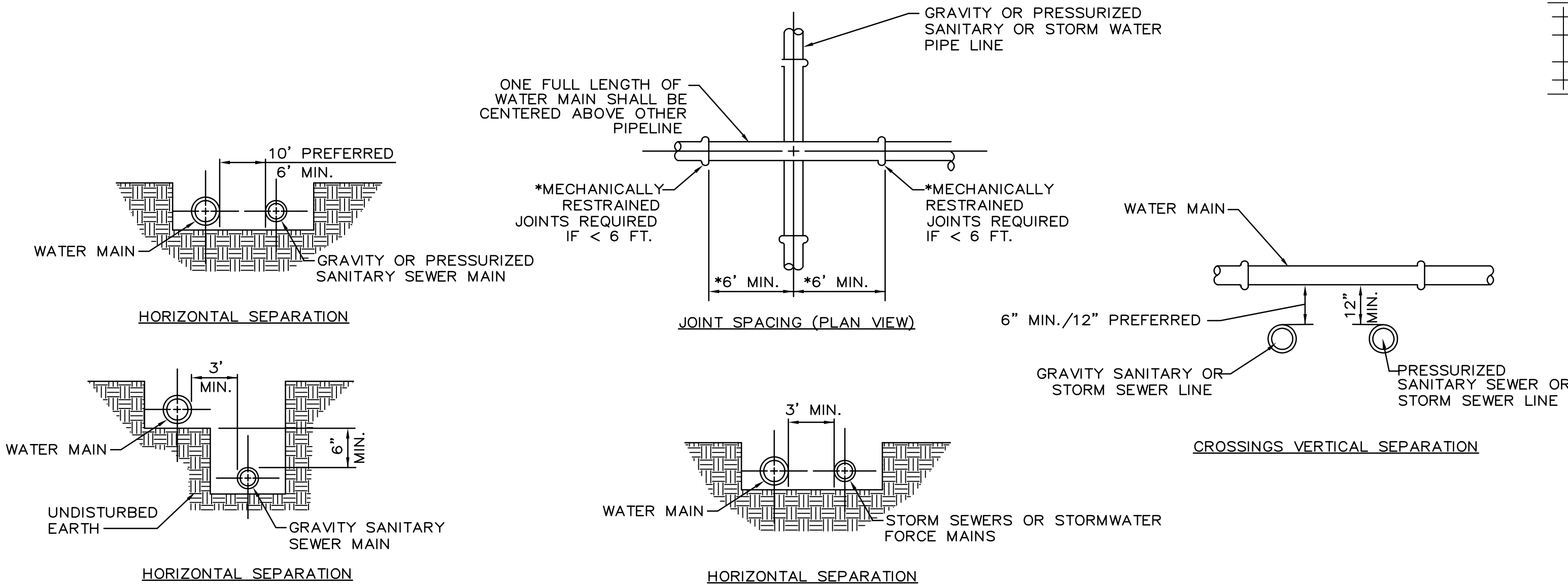


FIRE HYDRANT DETAIL

NTS

THRUST BLOCK DETAILS

NTS

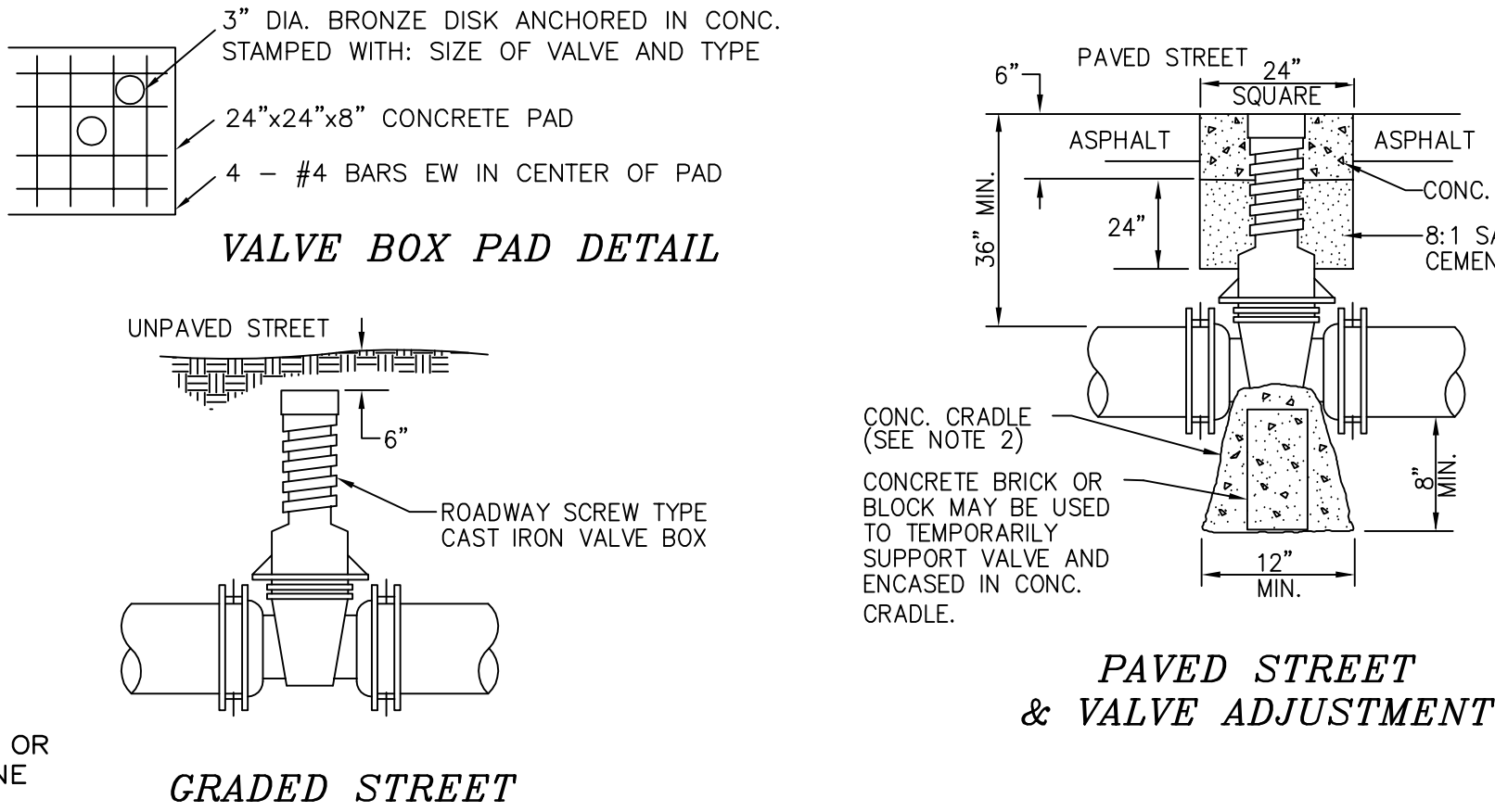


NOTES:

- THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND GRAVITY OR PRESSURIZED SANITARY SEWER MAINS IS 10' PREFERRED AND A MINIMUM OF 6 FEET. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND GRAVITY SEWER MAINS IS 3 FEET WITH A MINIMUM 6 INCH SEPARATION BELOW THE WATER MAIN.
- THE MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND PRESSURE SEWER MAINS IS 12 INCHES (ABOVE IS PREFERRED). THE MINIMUM VERTICAL SEPARATION FOR A WATER MAIN ABOVE A GRAVITY SEWER PIPE IS 6 INCHES.
- WHERE THE 3 FOOT HORIZONTAL SEPARATION OR THE MINIMUM REQUIRED VERTICAL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND SEWER MAIN THE USE OF A PIPE OR CASING PIPE HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO THAT OF A 0.25-INCH THICK DUCTILE IRON PIPE) OR CONCRETE ENCASUREMENT AT LEAST FOUR INCHES THICK FOR BOTH THE WATER MAIN AND THE SEWER MAIN (GRAVITY AND PRESSURIZED SEWER) SHALL BE USED.
- WHERE THE 12 INCH VERTICAL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND SEWER MAIN THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 6 INCHES AND THE WATER MAIN SHALL BE SLEEVED TO A MINIMUM DISTANCE OF 6 FEET ON BOTH SIDES OF THE SEWER PIPE.

SEWER SEPARATION DETAILS

N.T.S.

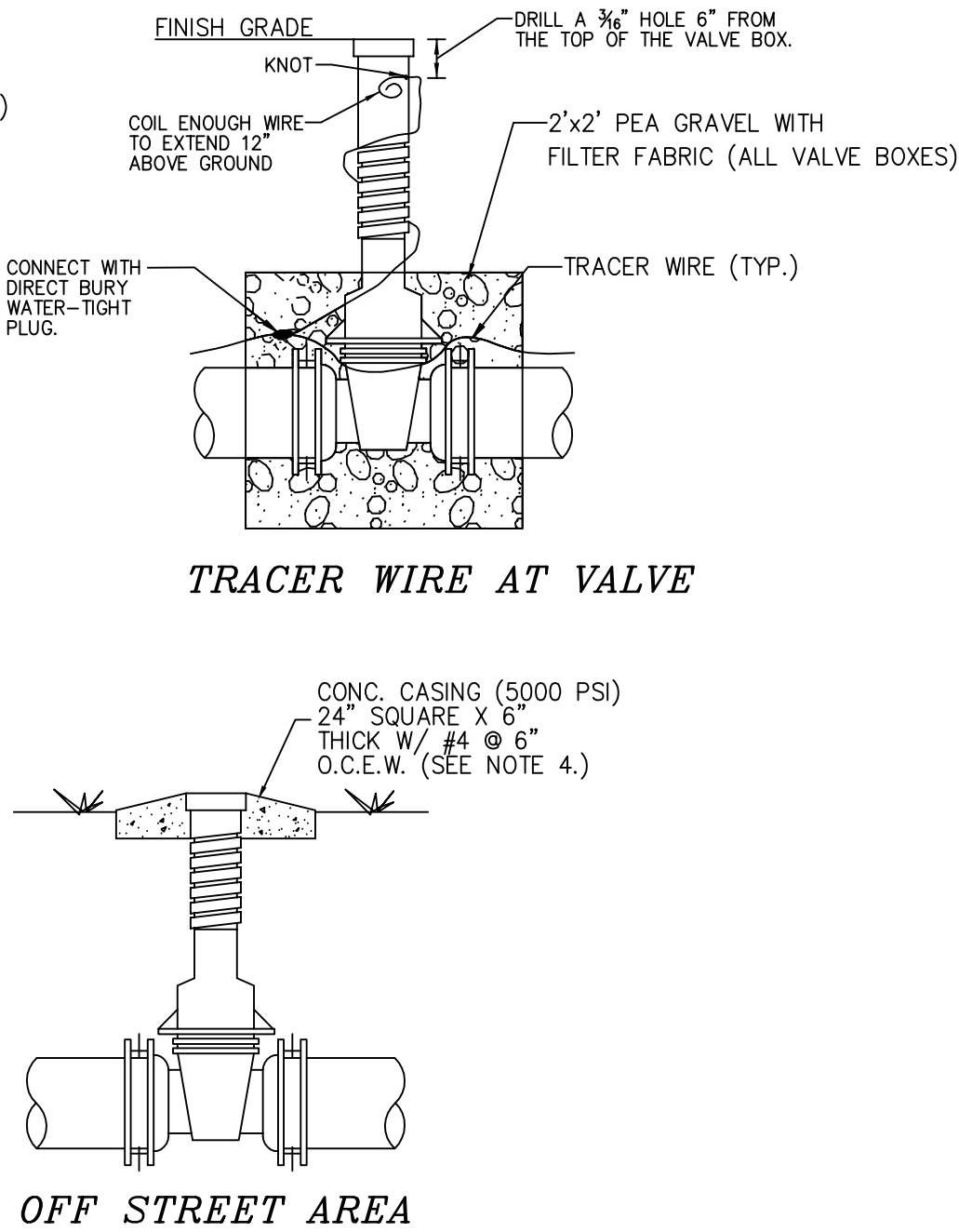


VALVE NOTES:

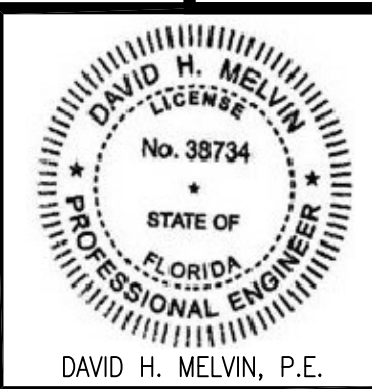
- FOR VALVE CONSTRUCTION, CONSTRUCT VALVE WITH TOP 1' BELOW PROPOSED STREET GRADE. AFTER FINAL PAVING, CUT SMOOTH, SQUARE HOLE AROUND VALVE AND ADJUST TOP FLUSH WITH FINISH PAVEMENT. BACKFILL WITH 8:1 SAND-CEMENT MIX TO 24" BELOW GRADE; COMPLETE BACKFILL WITH 5000 P.S.I. CONCRETE AND TROWEL SMOOTH TO MATCH FINISH PAVEMENT.
- CONCRETE CRADLE REQUIRED ON 10" AND LARGER VALVES.
- ALL VALVES SHALL BE SECURED TO MAIN WITH RETAINER GLANDS EXCEPT WHERE THREADED RODS ARE USED.
- IF MULTIPLE VALVES ARE CLOSE TOGETHER, POUR CONCRETE PAD AS A SINGLE LARGER PAD.

TYPICAL VALVE DETAIL

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FAX: (850) 482-8609

SHEET UTILITY DETAILS

TITLE: NEW FIRE STATION

FOR: GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT

DATE: 08-2025

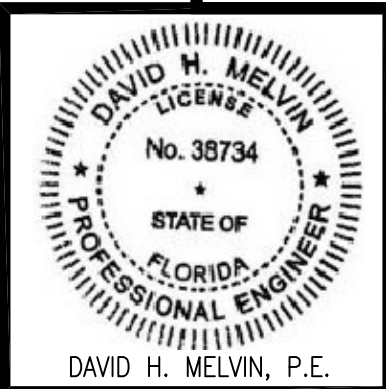
DRAWN BY: MMF

CHECKED BY: DHM

SHEET No.

C-6.2

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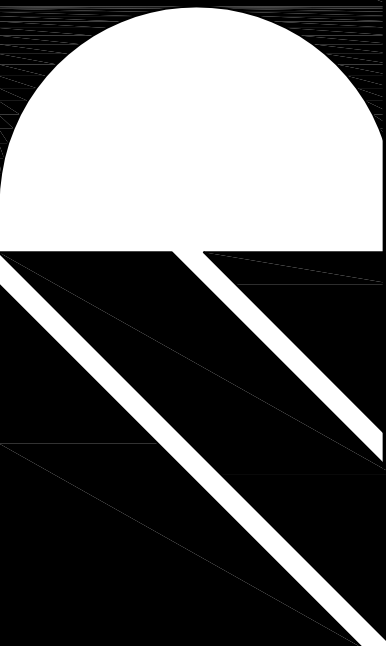


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PAUL A. DONOFRO & ASSOCIATES - ARCHITECTS

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SHEET DRIVEWAY PLAN AND DETAIL

TITLE:
NEW FIRE STATION
FOR:
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT

DATE:
08-2025

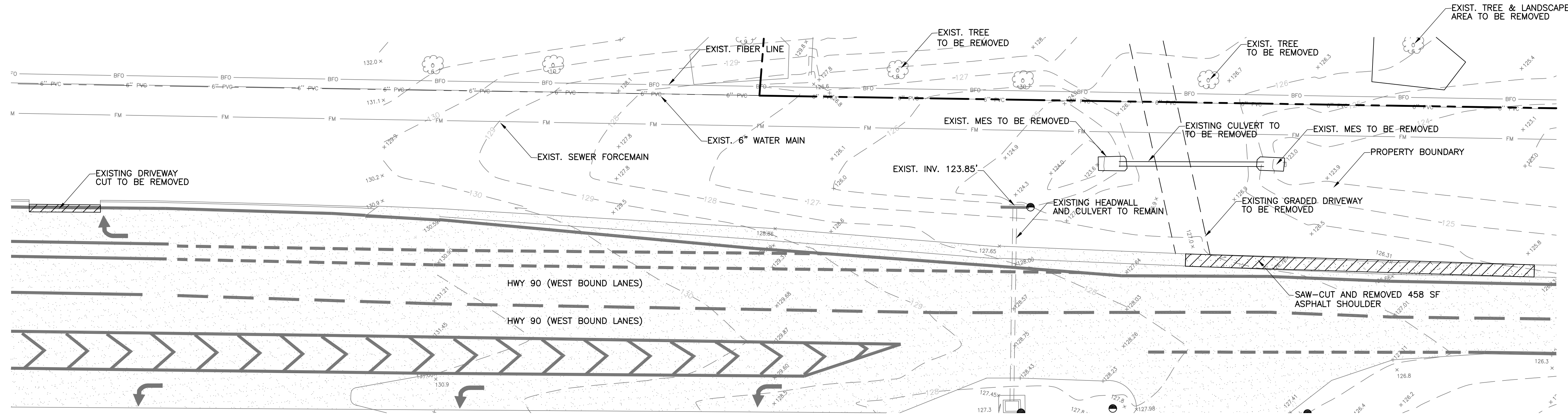
DRAWN BY:
MMF

CHECKED BY:
DHM

SHEET No.

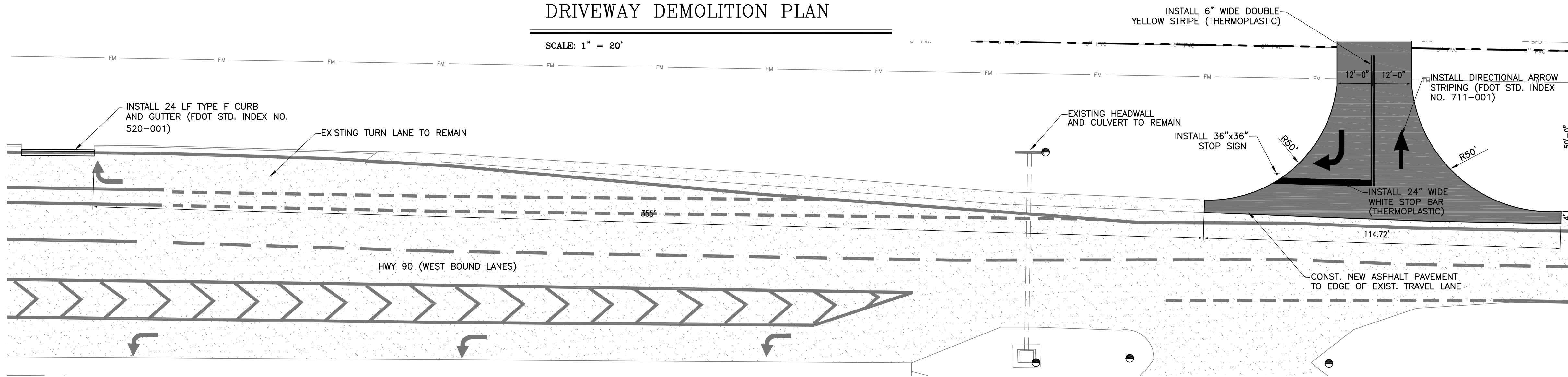
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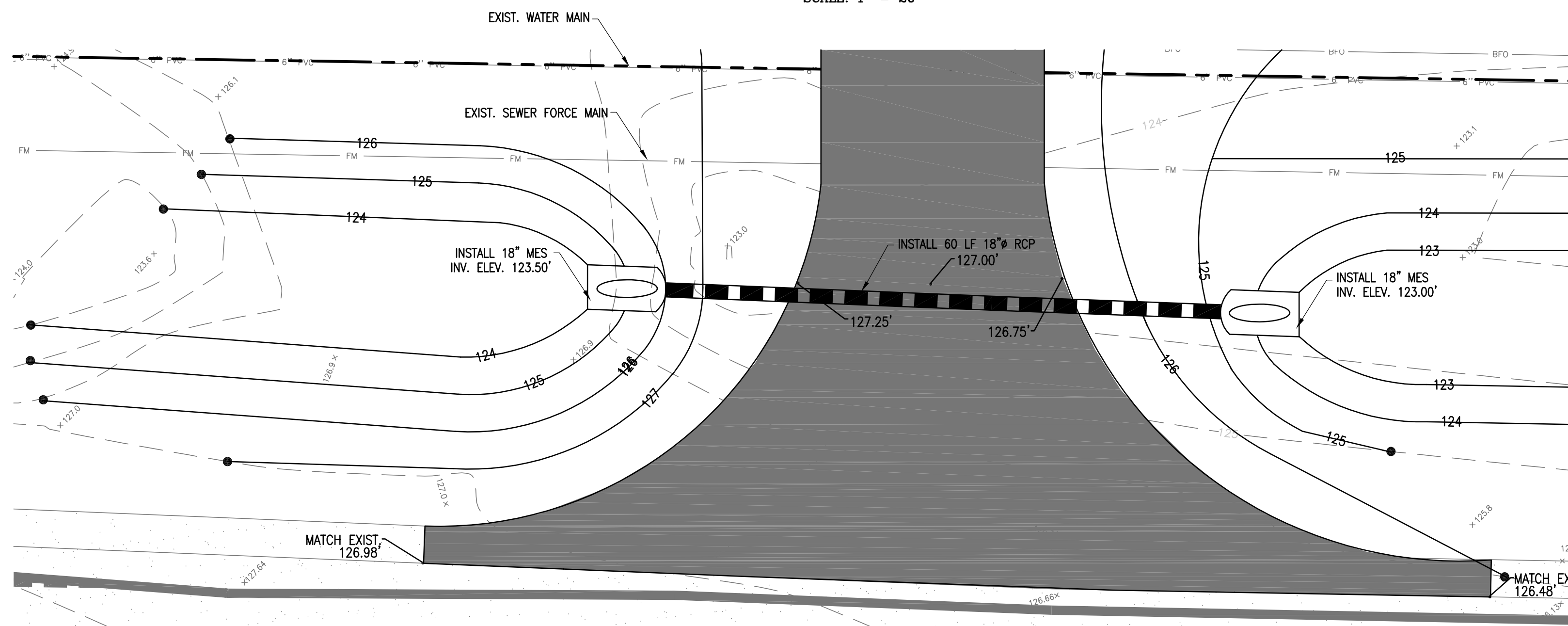
DRIVEWAY DEMOLITION PLAN

SCALE: 1" = 20'



STRIPING AND DIMENSION PLAN

SCALE: 1" = 20'

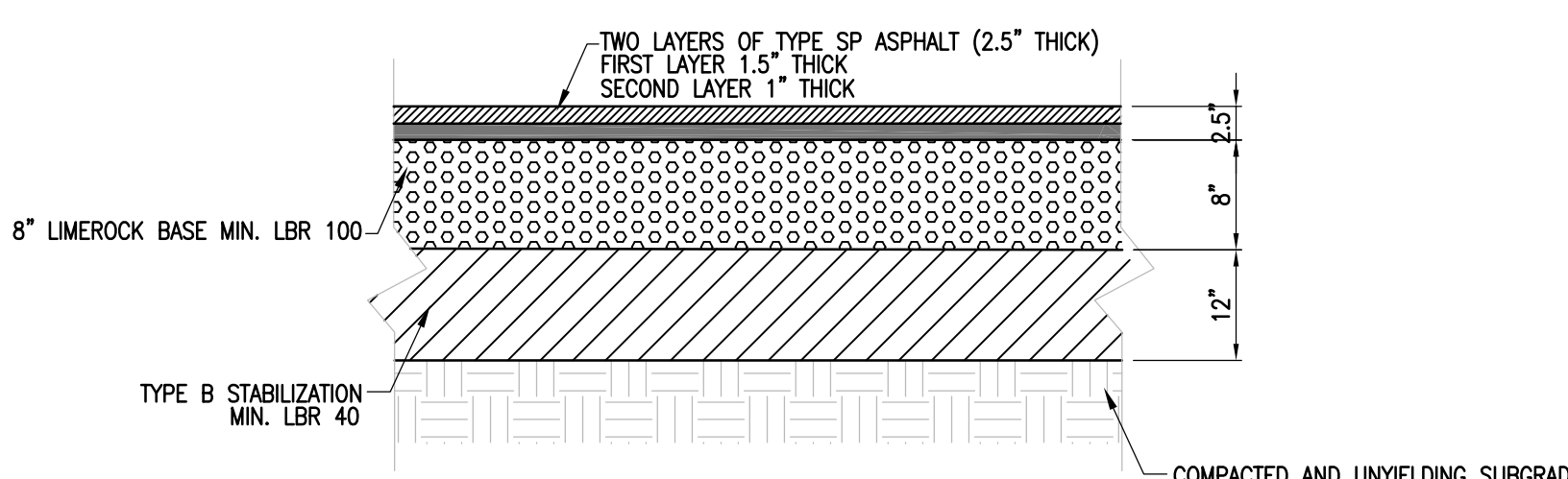


GRADING AND DRAINAGE PLAN

SCALE: 1" = 10'

GENERAL NOTES

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION'S "STANDARD PLANS FOR ROAD CONSTRUCTION", THE DEPARTMENT'S SPECIFICATIONS AND THESE PLANS.
- MAINTENANCE OF TRAFFIC CONTROL MEASURES, INCLUDING THE PLACEMENT OF PROPER SIGNAGE AND PROTECTING DROP-OFF HAZARDS, SHALL COMPLY WITH THE CURRENT APPLICABLE FDOT STANDARD PLANS INDEX 102-600 SERIES, INCLUDING BUT NOT LIMITED TO INDEX 102-600, 102-601, 102-602 AND 102-603.
- THE POSTED REGULATORY SPEED LIMIT SHALL REMAIN AS POSTED. THE CONTRACTOR MAY REDUCE THE SPEED IN THE AREAS OF ACTIVE WORK ZONES, BY THE USE OF ADVISORY SPEED PLATES WITH THE PERMISSION FROM FDOT MAINTENANCE OFFICE (MINIMUM SPEED WILL BE 35 MPH).
- THE CONTRACTOR SHALL OPEN ALL LANES TO TRAFFIC AND SHALL INSTALL TEMPORARY PAVEMENT MARKINGS PRIOR TO LEAVING THE PARTICULAR CONSTRUCTION SITE. THIS INCLUDES OVERNIGHT, WEEKENDS, AND OTHER TIMES WHEN NO WORK IS TO BE UNDERWAY IN THE PARTICULAR AREA FOR THE REMAINDER OF THE WORKDAY. THE CONTRACTOR SHALL APPLY FOR LANE CLOSURE PERMIT THROUGH THE PONCE DE LEON OPERATION PERMIT OFFICE 48 HOURS PRIOR TO CONSTRUCTION COMMENCEMENT.
- STATIONARY WARNING SIGNS SHALL BE INSTALLED ON THE INTERSECTING SIDE ROADS FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH THE CURRENT "STANDARD PLANS FOR ROAD CONSTRUCTION".
- ALL SIGNS WHICH CONFLICT WITH THE MAINTENANCE OF TRAFFIC SIGNS SHALL EITHER BE COVERED WITH AN OPAQUE MATERIAL WHILE THE CONFLICT EXISTS. THE CONTRACTOR SHALL RESTORE THESE SIGNS TO THEIR ORIGINAL CONDITION WHEN THE MAINTENANCE OF TRAFFIC SIGNS ARE REMOVED. IF PERMANENT GUIDE SIGNS MUST BE REMOVED DURING CONSTRUCTION, PROVISIONS MUST BE MADE FOR TEMPORARY GUIDE SIGNING. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE NOTICE AS DIRECTED BY THE ENGINEER.
- THE FOLLOWING RESTRICTIONS APPLY TO ALL PHASES OF MAINTENANCE OF TRAFFIC. LANE CLOSURES ARE NOT ALLOWED ON STATE ROADS WITHOUT PRIOR WRITTEN AUTHORIZATION. THE CONTRACTOR WILL NOT BE PERMITTED TO HINDER TRAFFIC MOVEMENT BY BLOCKING OR PARTIALLY BLOCKING ANY TRAFFIC LANE ON THE STATE HIGHWAY SYSTEM ON THE DAYS DESIGNATED BY THE STATE LEGISLATURE OR CABINET AS HOLIDAYS, WHICH INCLUDE BUT ARE NOT LIMITED TO, NEW YEAR'S DAY, MARTIN LUTHER KING'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, VETERAN'S DAY, THANKSGIVING DAY AND THE FOLLOWING FRIDAY AND CHRISTMAS DAY.
- PROVISIONS FOR TRAFFIC DISRUPTIONS THAT ARE NOT ANTICIPATED IN THE TRAFFIC CONTROL PLAN, BUT ARE NECESSARY TO CONSTRUCT THE PROJECT WILL BE SUBMITTED IN WRITING TO THE FDOT PERMITS MANAGER AND APPROVED 72 HOURS BEFORE THE START OF ANY WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS, AND OTHER DATA REQUIRED BY THE FDOT PERMITS MANAGER.



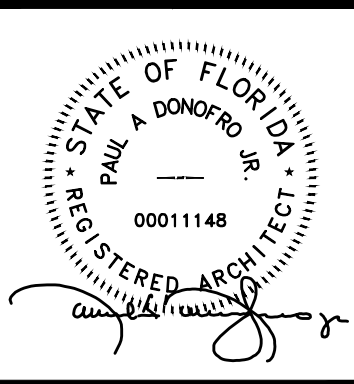
ASPHALT PAVING DETAIL (FDOT ROW)

A
C-7.0

N.T.S.



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SHEET FLOOR PLAN * LEGEND * NOTES

TITLE: BOLLARD DETAIL

NEW FIRE STATION

FOR
GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12

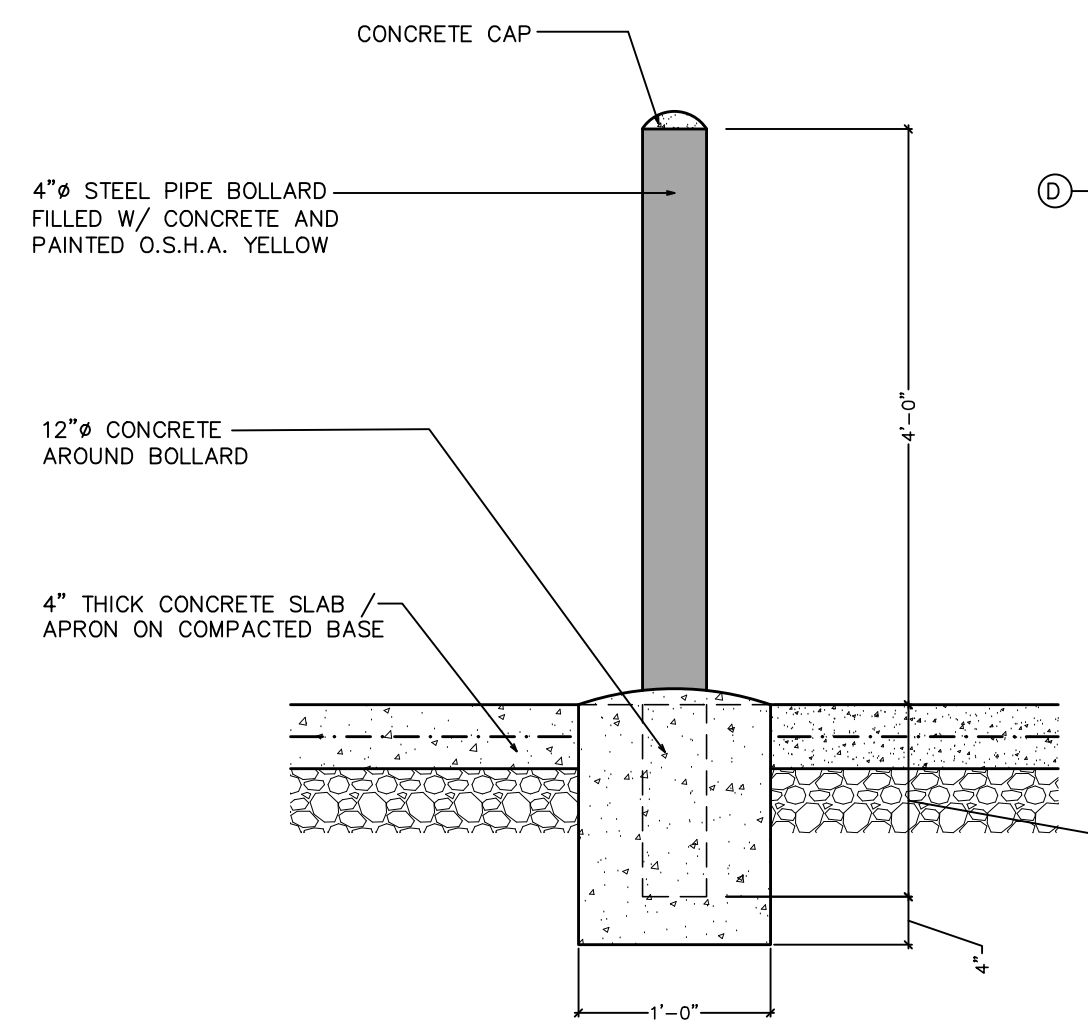
DATE:
AUG 13, 2025

DRAWN BY:
C.L.D.

CHECKED BY:
P.A.D., JR.

SHEET No.

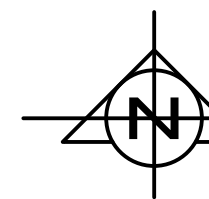
A-1.0



1
A-1.1
TYPICAL BOLLARD DETAIL
1" = 1'-0"

INTERIOR WALL LEGEND

- 3.5" X 20GA. C.F.S. STUDS @ 16" O.C. W/ 5/8" GYP. BOARD DRYWALL
EA. SIDE & 3-1/2" FIBERGLASS SOUND BATTS IN BETWEEN STUDS
- 3.5" X 20GA. C.F.S. STUDS @ 16" O.C. W/ 5/8" GYP BOARD DRYWALL
ONE SIDE & 1/2" PAINTED PLYWOOD ONE SIDE & 3-1/2" SOUND BATTS
IN BETWEEN STUDS
- 1 HOUR RATED WALL ASSEMBLY. SEE CONSTRUCTION SECTIONS 1/A-5.1
- 3.5" X 20GA. C.F.S. STUDS @ 16" O.C. W/ 5/8" GYP BOARD DRYWALL
ONE SIDE & CERAMIC TILE OVER HIGH PERFORMANCE THIN SET MORTAR
OVER LIQUID APPLIED WATERPROOF CRACK ISOLATION MEMBRANE OVER
1/2" CEMENT BACKER BOARD SHOWER SIDE
- SEE CONSTRUCTION NOTES **1** OR **3** FOR INSTALLATION OF
EITHER GYP. BOARD, OR CERAMIC TILE OVER ONE SIDE OF C.M.U. WALL



FLOOR PLAN

1/8" = 1'-0"

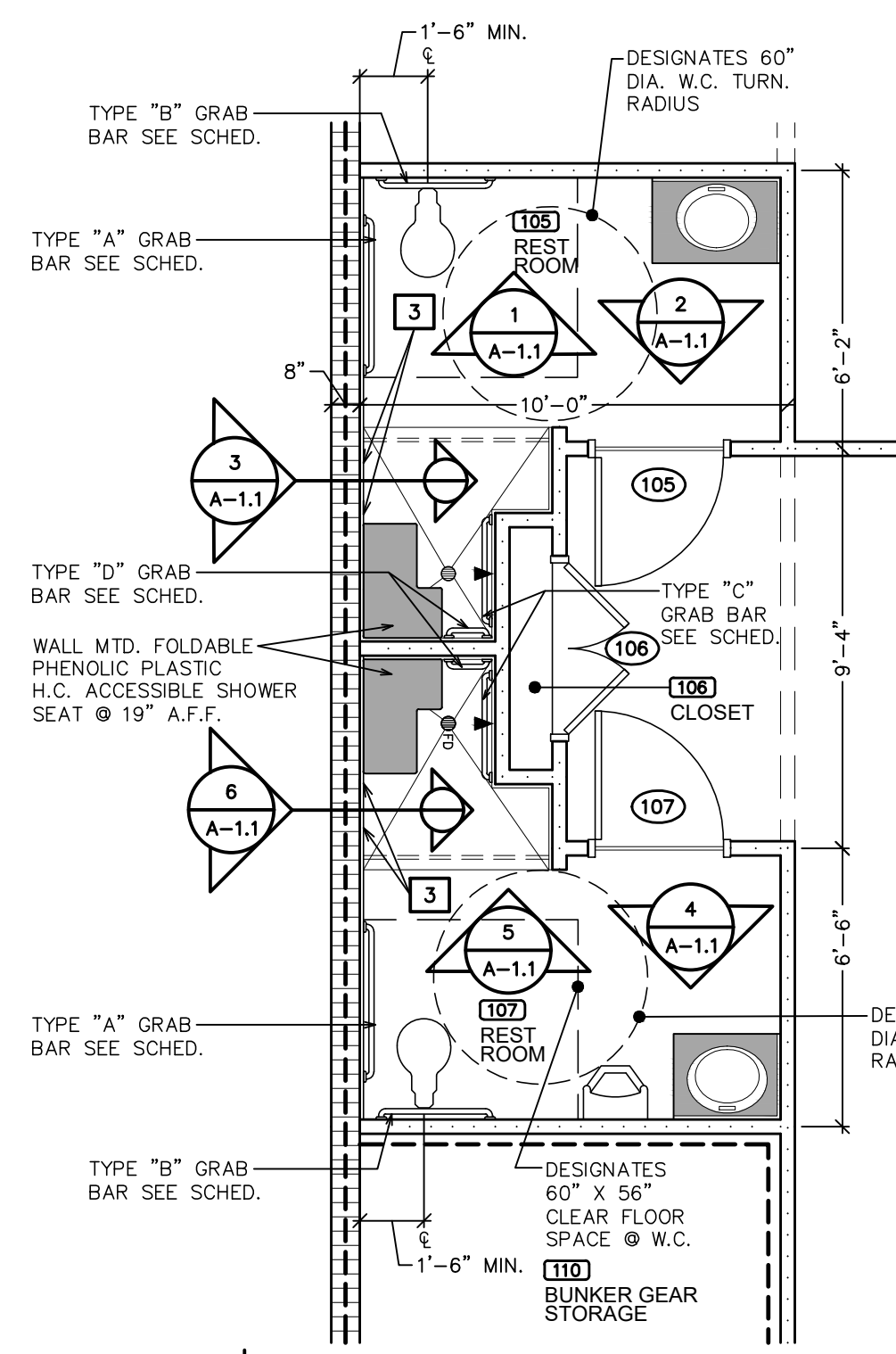
CONSTRUCTION NOTES

- INSTALL 5/8" GYP. BOARD DRYWALL OVER 1-1/2" DEEP STEEL "Z" FURRING STRIPS @ 16" O.C. W/
1-1/2" RIGID INSULATION BOARD OVER MOISTURE & AIR BARRIER OVER C.M.U. WALL
- CONSTRUCT NEW ENTRANCE PORTICO. SEE EXTERIOR ELEVATIONS, CONSTRUCTION SECTIONS
& DETAILS
- AT WEST WALL OF SHOWER INSTALL CERAMIC WALL TILE OVER HIGH PERFORMANCE MODIFIED
THIN SET MORTAR EXCEEDING ANSI A118.4 OVER LIQUID APPLIED WATERPROOF CRACK ISOLATION
MEMBRANE OVER C.M.U. WALL
- PROVIDE & INSTALL 4" DIA. X 60" CONCRETE FILLED STL. PIPE BOLLARD W/ TOP @ 48" A.F.F.
PAINT BOLLARD "OSHA YELLOW". SEE DETAIL THIS SHEET FOR INSTALLATION
- LOCATION OF PORTAL FRAME AS REQUIRED BY P.E.M.B.
- LOCATION OF FUTURE ICE MACHINE. SEE MECH. & ELECT. DRAWINGS FOR UTILITIES
- INDICATES LOCATION OF FUTURE DRYING CABINET. SEE MECH. & ELECT. DRAWINGS FOR UTILITIES
- INDICATES LOCATION OF FUTURE WASHER EXTRACTOR. SEE MECH. & ELECT. DRAWINGS FOR UTILITIES
- INDICATES DRAINAGE TROUGH. SEE PLUMBING DWGS. FOR SIZE & LOCATION
- INDICATES LOCATION OF FUTURE REFRIGERATOR. SEE MECH. & ELECT. DRAWINGS FOR UTILITIES
- INDICATES LOCATION OF FUTURE ELECT. RANGE & EXHAUST HOOD. SEE MECH. & ELECT.
DRAWINGS FOR UTILITIES
- INDICATES LOCATION OF FUTURE (2) COMPART. S.S. SINK SEE MECH. DRAWINGS FOR UTILITIES

FLOOR PLAN LEGEND

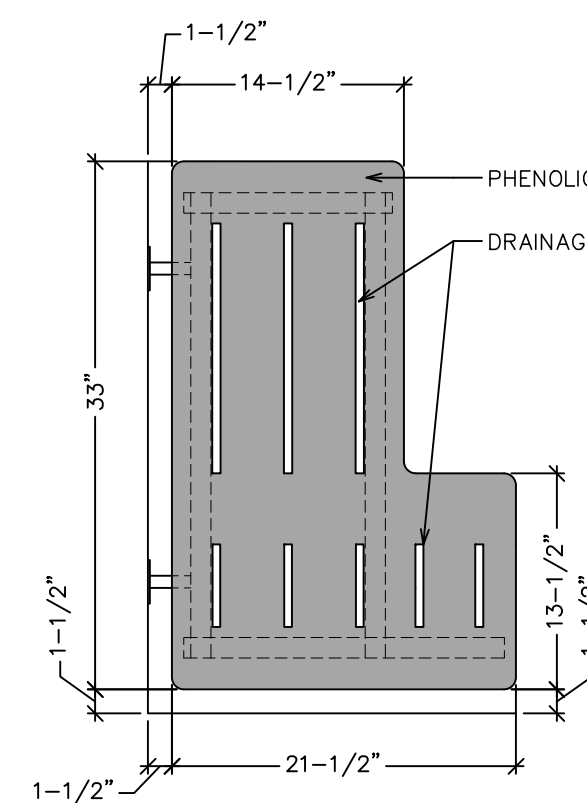
- ROOM FINISH SCHEDULE REFERENCE SYMBOL
- WINDOW SCHEDULE REFERENCE SYMBOL
- DOOR SCHEDULE REFERENCE SYMBOL
- STEEL COLUMN LOCATION
REFERENCE SYMBOL
- GENERAL CONSTRUCTION NOTE
REF. SYMBOL SEE SHEET A-1.1
- WALL MTD. 10 LB. CAPACITY
FIRE EXTINGUISHER
- METAL DOWNSPOUT LEADER
LOCATION
- NEW EXTERIOR WALL CONSTRUCTION
SEE TRANSVERSE SECTION
- NEW C.F.S. STUD INTERIOR WALL
CONSTRUCTION / ASSEMBLY. SEE
WALL LEGEND FOR DETAILS.
- NEW 1 HR. RATED WALL CONSTRUCTION
/ ASSEMBLY. SEE WALL LEGEND FOR
DETAILS
- EXTERIOR ELEVATION REFERENCE SYMBOL
- INTERIOR ELEVATION REFERENCE SYMBOL
- NEW REINFORCED CONC. PAD,
APRON, RAMP, OR WALK
- HOSE BIB
- PRE-FINISHED DOWNSPOUT
LEADER LOCATION

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CONSTRUCTION DOCUMENTS
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AUGUST 13TH, 2025



ENLARGED PARTIAL FLOOR PLAN

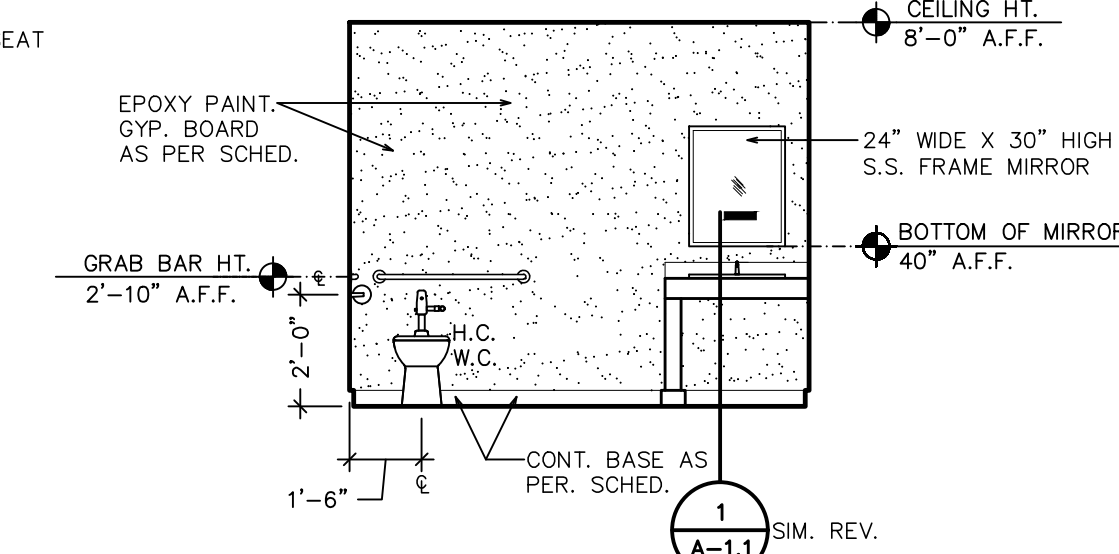
1/4" = 1'-0"



SHOWER SEAT DETAIL

1" = 1'-0"

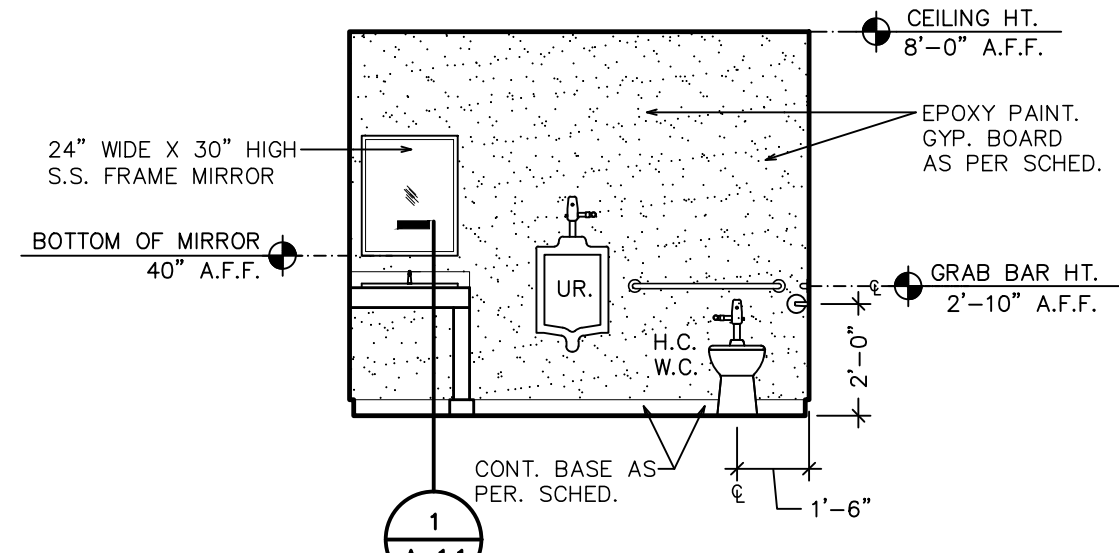
NOTE!
SHOWER SEAT EQUAL TO HEAVY HARDWARE
MODEL # 19071 FOLDING A.D.A. COMPLIANT
FOLDING SHOWER SEAT W/ STAINLESS STEEL
FRAME & PHENOLIC PLASTIC SEAT DESIGNED
TO SUPPORT 250 LBS. WHEN INSTALLED
PROPERLY. FRAME IS FABRICATED FROM
304 GRADE STEEL W/ US32D BRUSHED
STAINLESS STEEL FINISH



INTERIOR ELEVATION

1/4" = 1'-0"

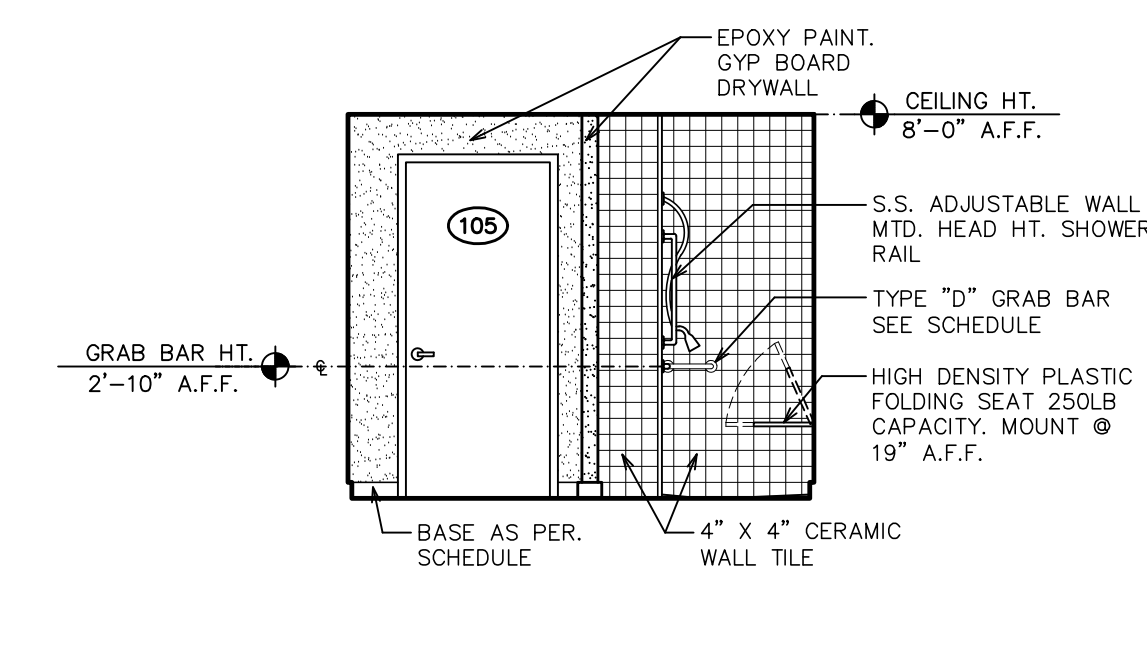
NORTH WALL ROOM 105



INTERIOR ELEVATION

1/4" = 1'-0"

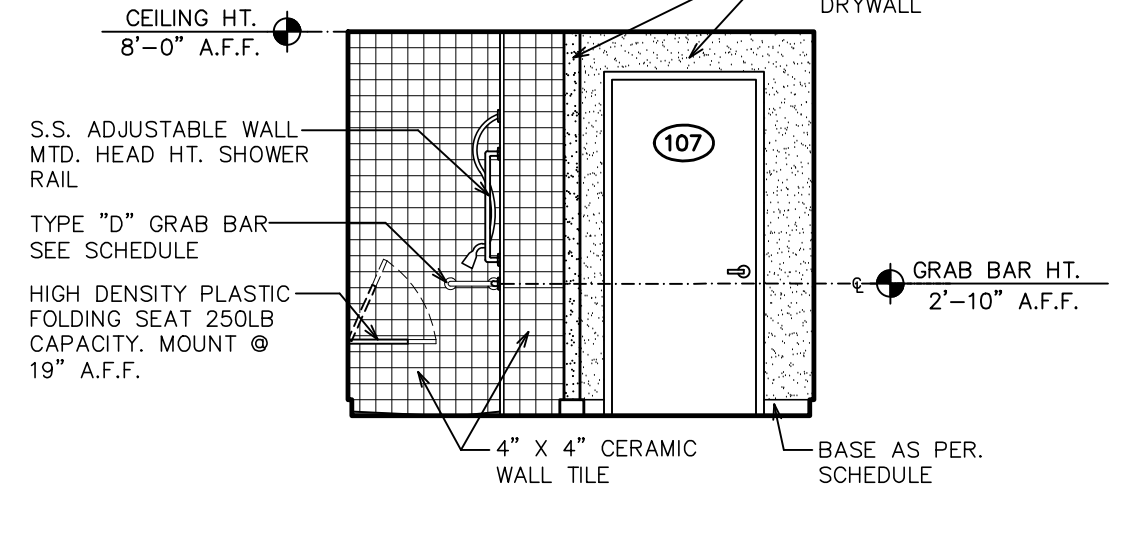
SOUTH WALL ROOM 107



INTERIOR ELEVATION

1/4" = 1'-0"

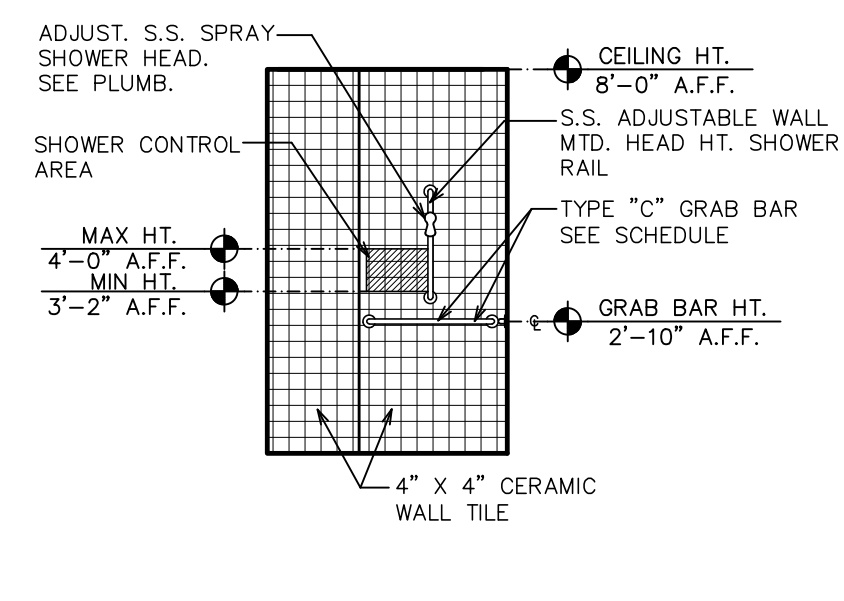
SOUTH WALL ROOM 105



INTERIOR ELEVATION

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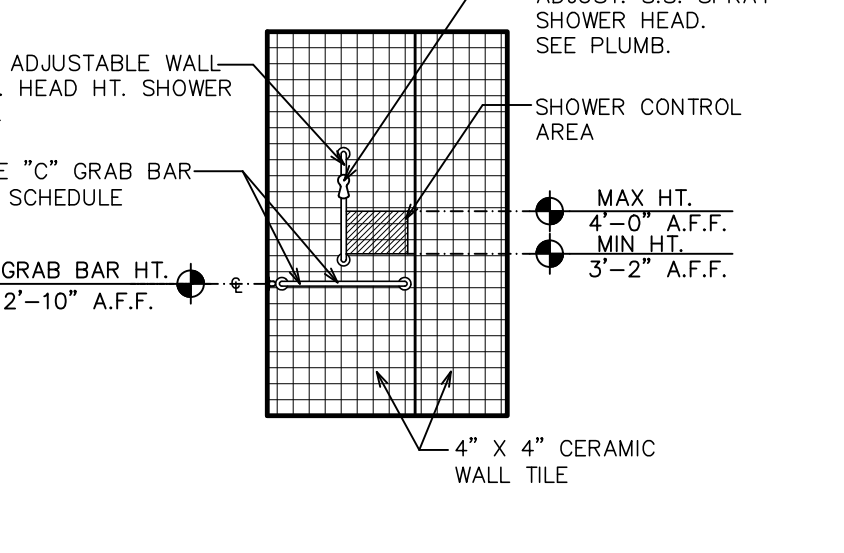
NORTH WALL ROOM 107



INTERIOR ELEVATION

1/4" = 1'-0"

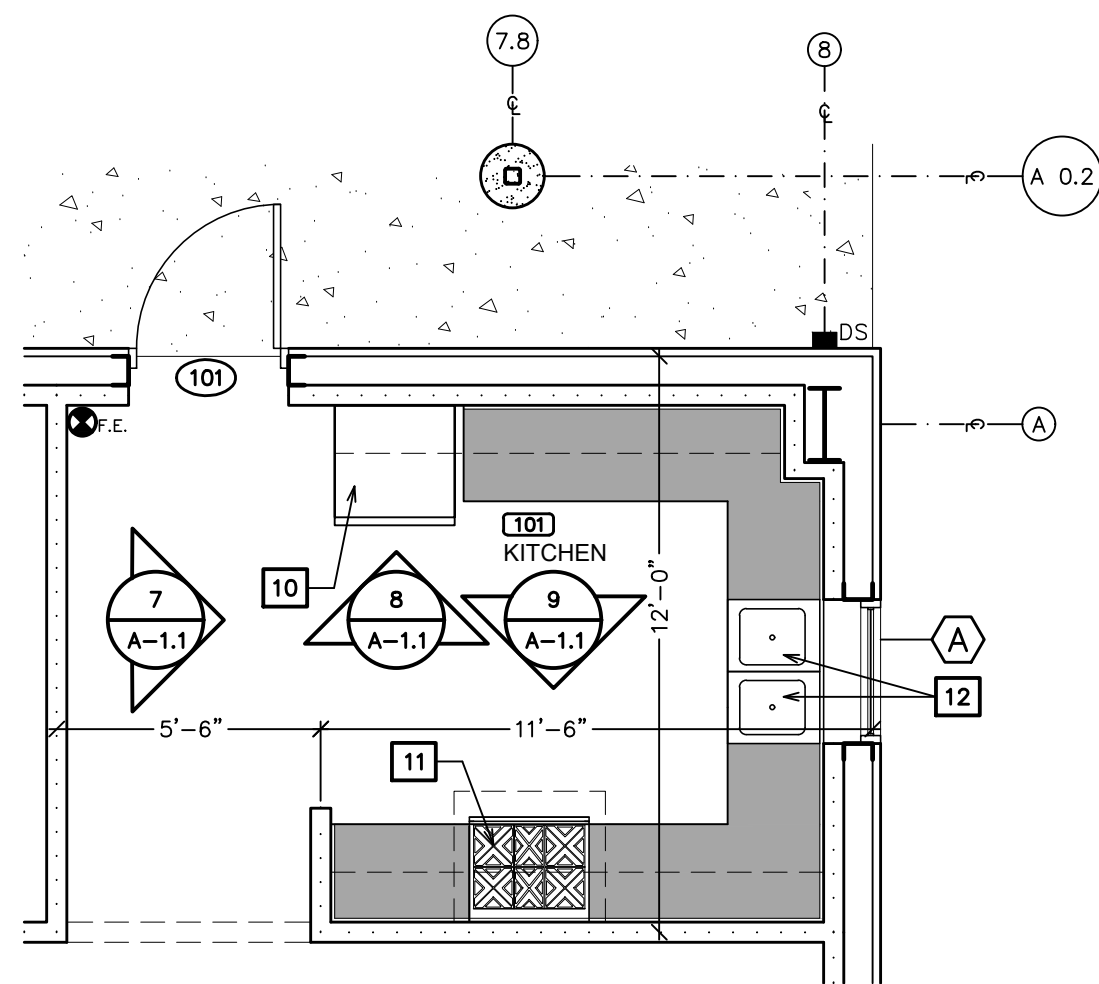
EAST SHOWER WALL ROOM 105



INTERIOR ELEVATION

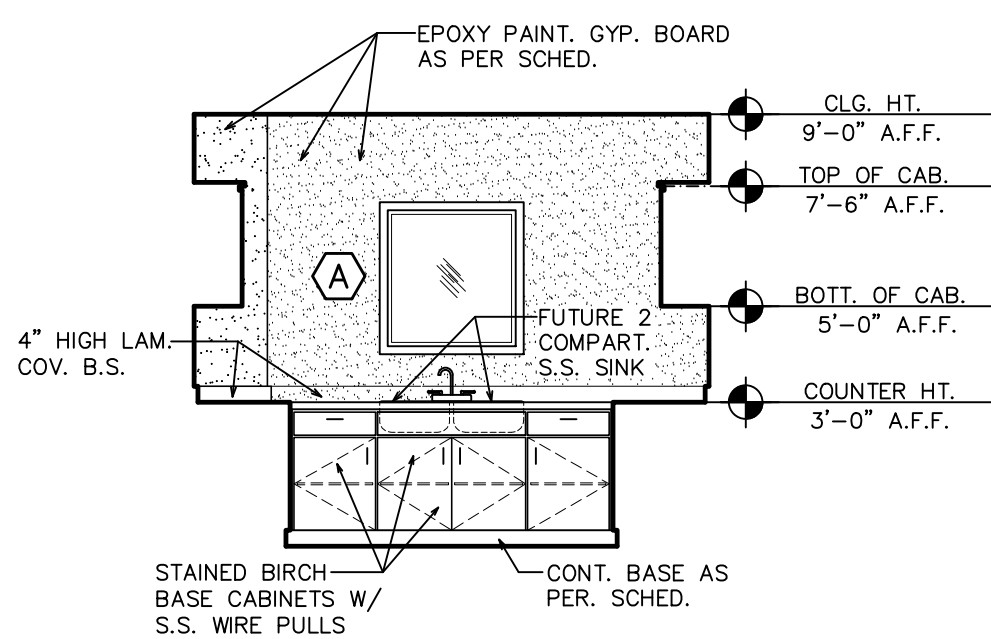
1/4" = 1'-0"

EAST SHOWER WALL ROOM 107



ENLARGED PARTIAL FLOOR PLAN

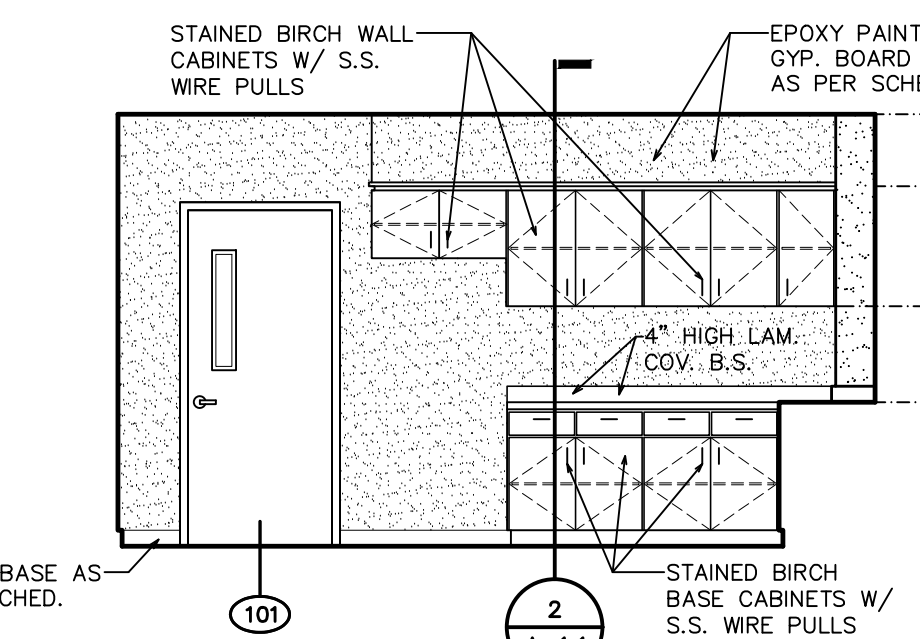
1/4" = 1'-0"



INTERIOR ELEVATION

1/4" = 1'-0"

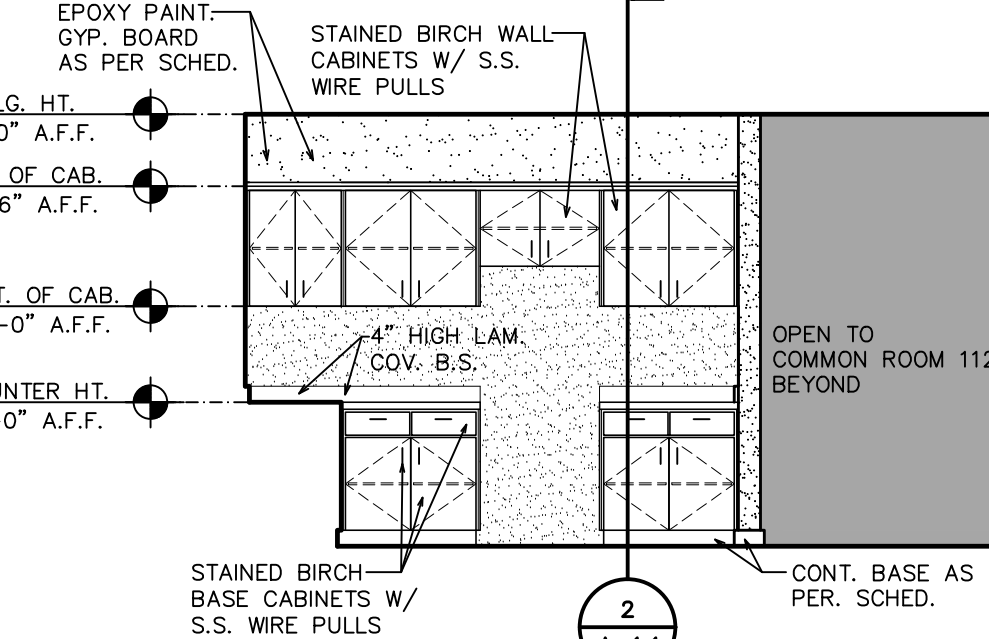
EAST WALL KITCHEN 101



INTERIOR ELEVATION

1/4" = 1'-0"

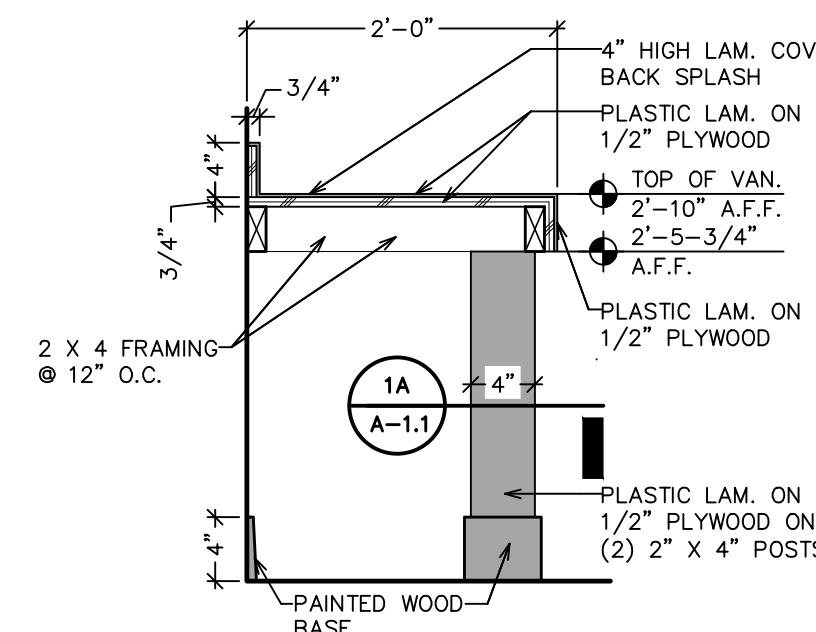
NORTH WALL KITCHEN 101



INTERIOR ELEVATION

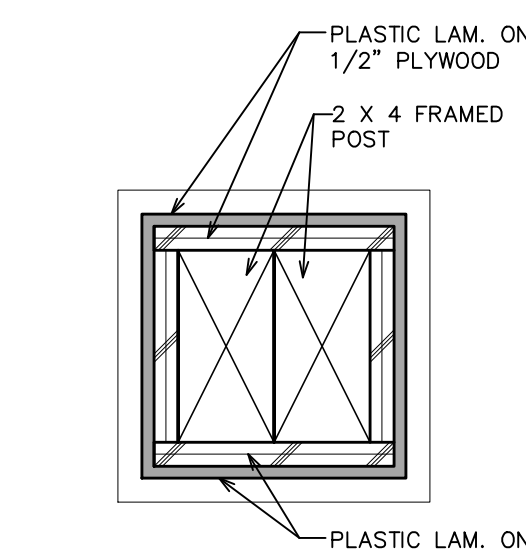
1/4" = 1'-0"

SOUTH WALL KITCHEN 101



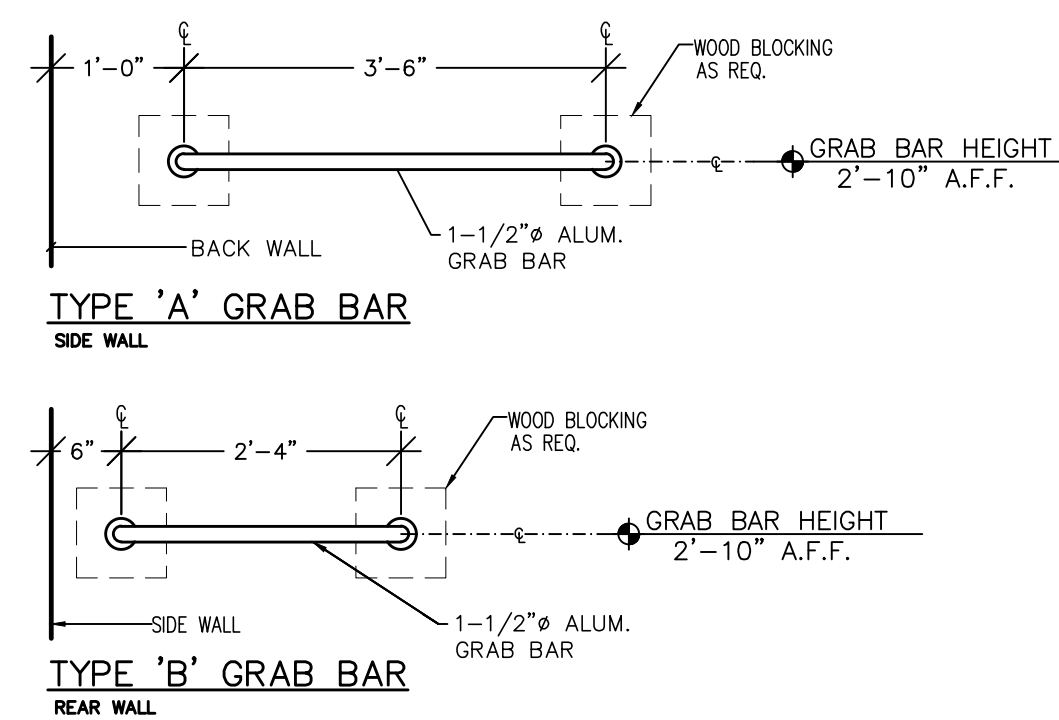
VANITY SECTION

1/4" = 1'-0"



POST DETAIL

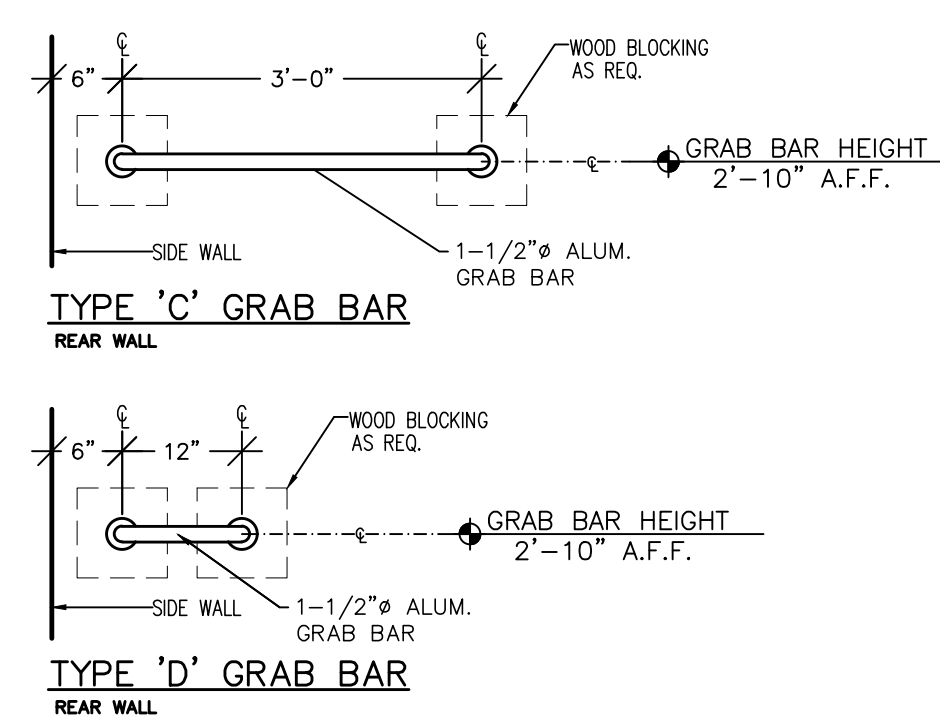
1/4" = 1'-0"



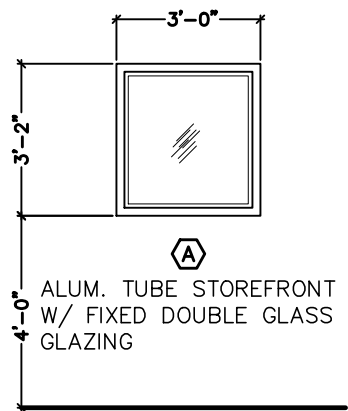
GRAB BAR SCHEDULE

NO SCALE

NOTE!
PROVIDE WOOD BLOCKING AS REQ.

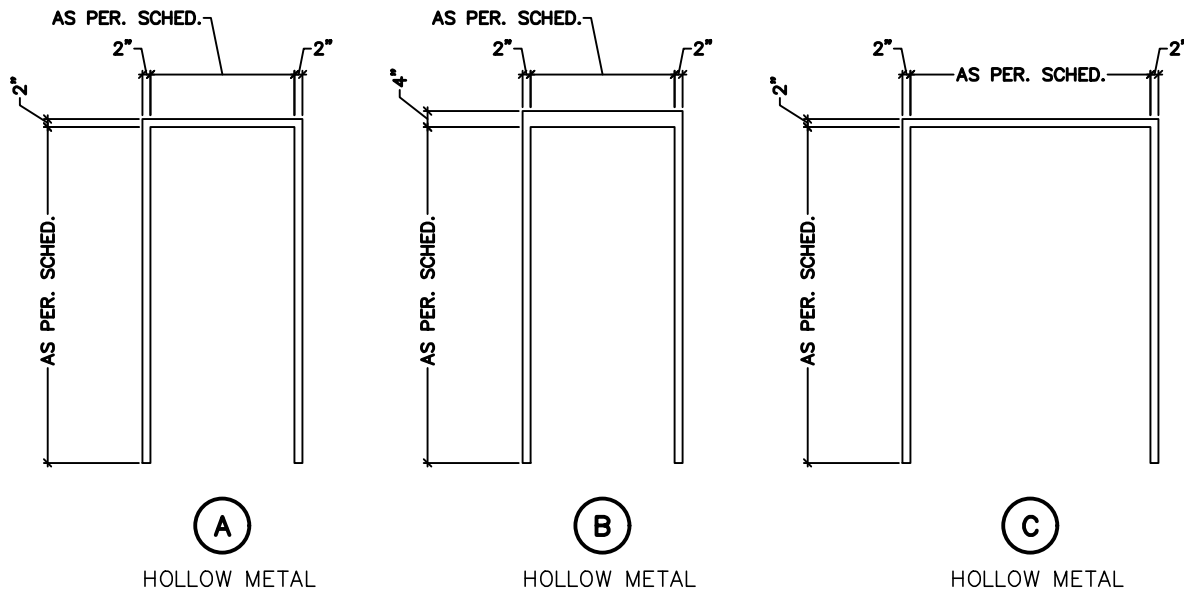


GRAB BAR SCHEDULE



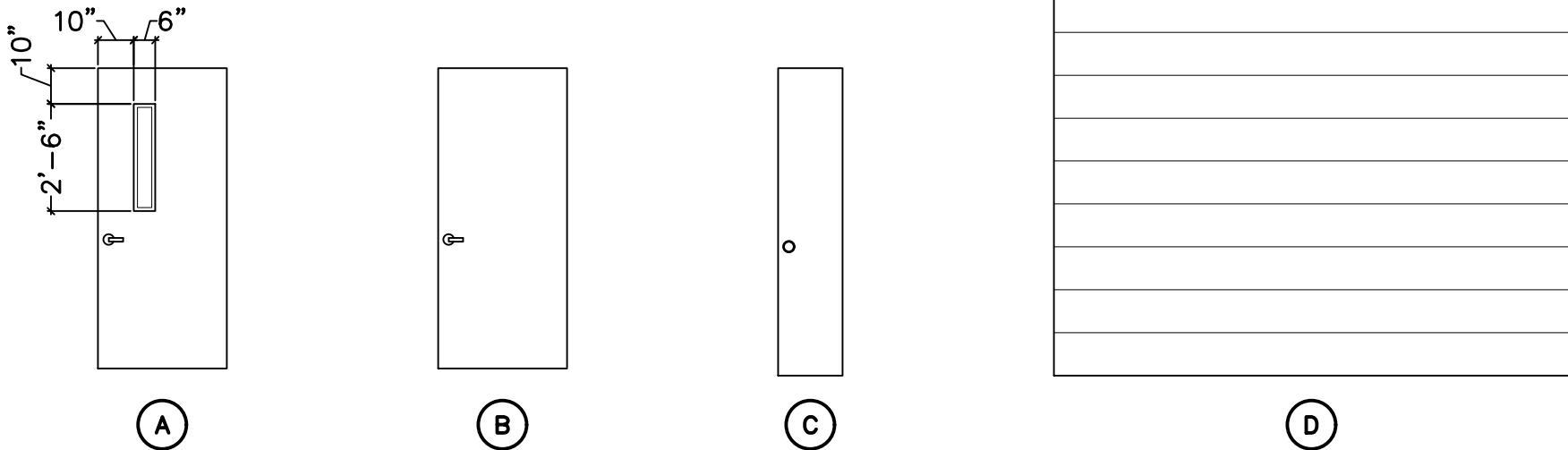
WINDOW TYPES

1/4" = 1'-0"



DOOR FRAME TYPES

1/4" = 1'-0"



DOOR TYPES

1/4" = 1'-0"

ROOM FINISH SCHEDULE																					
ROOM NUMBER	ROOM NAME	FLOORING				BASE		WALLS			CEILING			CEILING HEIGHT	REMARKS	ROOM NUMBER					
		CARPET TILE	SOLID VINYL PLANK TILE	CERAMIC TILE	SEALED CONC.	EPOXY	CERAMIC TILE	RUBBER	NONE	PAINTED GYP. BOARD	PAINTED C.M.U.	EPGYP. PAINTED GYPSUM BOARD	PAINTED PLYWOOD				CERAMIC TILE	TRUSSEDOOS	ACUSTICAL TILE	SUSPENDED VINYL	PAINTED GYP. BOARD
101	KITCHEN		●					●						●						101	
102	OFFICE		●					●												102	
103	OFFICE		●					●												103	
104	CUSTODIAL				●			●		●					●					104	
105	RESTROOM			●			●				●		●		●				INSTALL CERAMIC TILE @ WALLS OF SHOWER FROM F.F. TO CLG.	105	
106	CLOSET		●					●						●						106	
107	RESTROOM			●			●				●		●		●		●		INSTALL CERAMIC TILE @ WALLS OF SHOWER FROM F.F. TO CLG.	107	
108	BUNKER GEAR STORAGE				●			●		●		●			●				INSTALL C6 X 18GA. CLG. JOISTS @ 16" O.C. FOR GYP. BOARD CLG.	108	
109	MEETING ROOM		●					●							●			10'-0"		109	
110	STORAGE							●							●					110	
111	MECHANICAL				●			●								●			INSTALL C6 X 18GA. CLG. JOISTS @ 16" O.C. FOR GYP. BOARD CLG.	111	
112	COMMON ROOM		●					●						●				10'-0"		112	
113	APPARATUS BAYS				●			●							●					EXPOSED VINYL FACED BLANKED INSULATION @ WALLS	113

DOOR SCHEDULE														
DOOR NUMBER	DOOR SIZE			DOOR DESCRIPTION	DOOR TYPE	FRAME DESCRIPTION	FRAME TYPE	HARDWARE			REMARKS	SIGNAGE		DOOR NUMBER
	WIDTH	HEIGHT	THICKNESS					SET NUMBER	CLOSER	WEATHERSTRIPPING		PUSH	PULL	
101	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	A		●	●				101
102	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A					OFFICE		102
103	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A					OFFICE		103
104	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A					CUSTODIAL		104
105	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A						WOMENS H/C ACCESS SYMBOL	105
106	1'-6"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	C				PAIR OF DOORS		STORAGE	106
107	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A						MENS H/C ACCESS SYMBOL	107
108A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	B		●	●	1HR. RATED DOOR & FRAME	BUNKER GEAR		108A
108B	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	A		●	●				108B
109A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	A		●	●				109A
109B	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	A	HOLLOW METAL	A					COMMON RM.	MEETING RM.	109B
110	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	C				PAIR OF DOORS		STORAGE	110
111	3'-0"	7'-0"	1-3/4"	SOLID CORE WOOD FLUSH PANEL	B	HOLLOW METAL	A						MECHANICAL	111
112	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	B		●	●	1HR. RATED DOOR & FRAME	OFFICE AREA	APPARATUS BAYS	112
113A	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	A		●	●				113A
113B	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113B
113C	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113C
113D	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113D
113E	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113E
113F	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113F
113G	3'-0"	7'-0"	1-3/4"	HOLLOW METAL FLUSH PANEL	A	HOLLOW METAL	A		●	●				113G
113H	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113H
113I	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113I
113J	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113J
113K	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113K
113L	12'-0"	14'-0"		ELECT. OPERATED ROLLING STL. SERV. BAY DOOR	D									113L

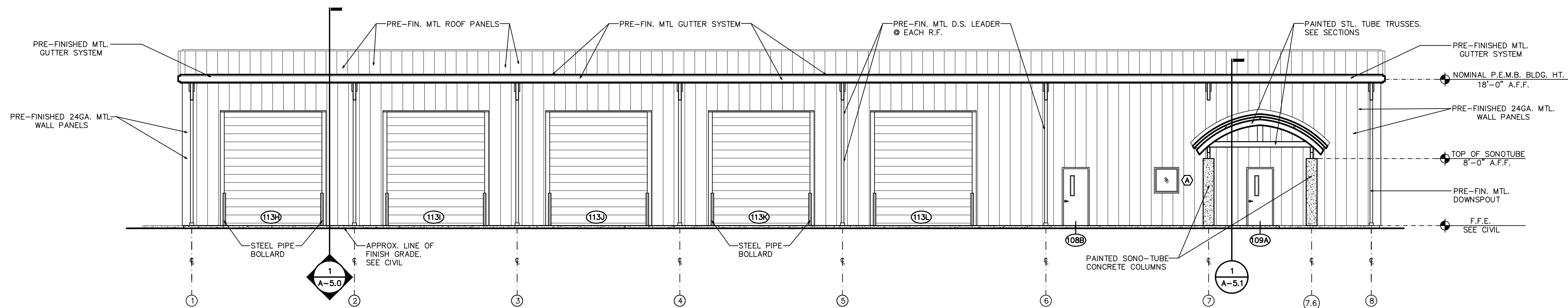




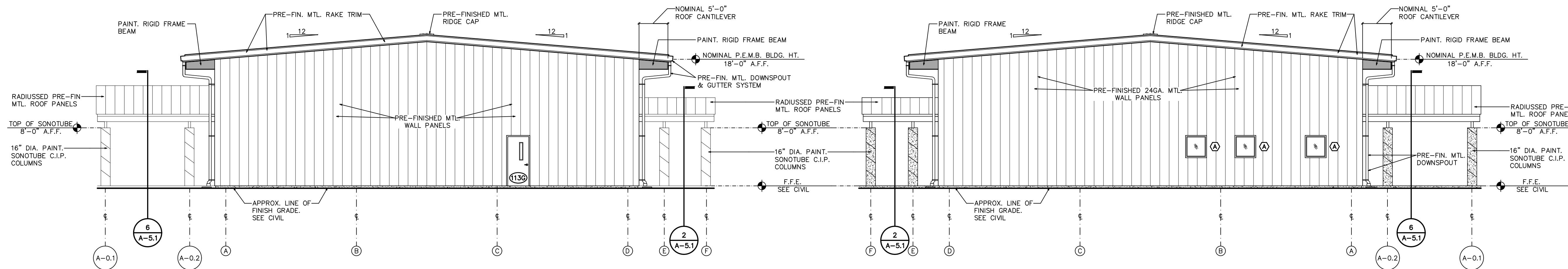
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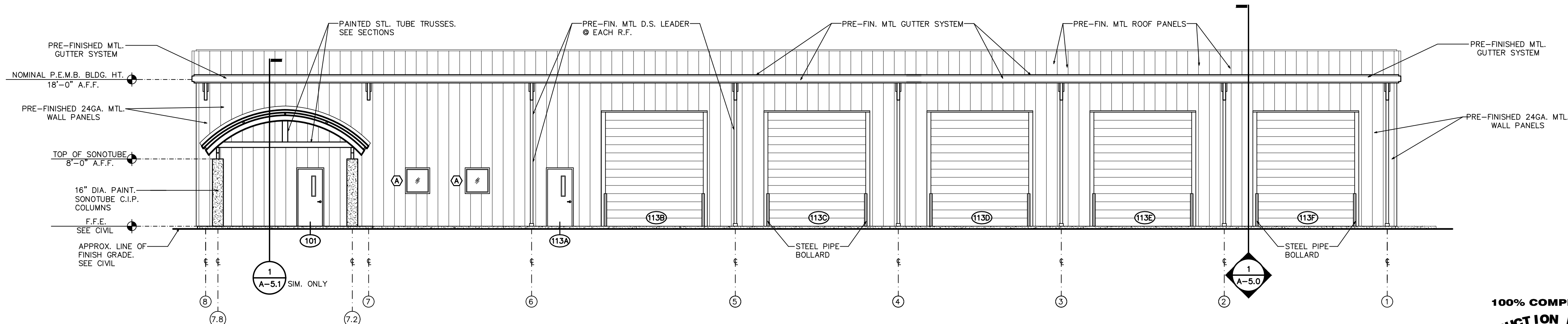


SOUTH ELEVATION
1/8" = 1'-0"



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

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



NORTH ELEVATION
1/8" = 1'-0"

100% COMPLETE
CONSTRUCTION DOCUMENTS
DONOFRO ARCHITECTS
AUGUST 13TH, 2025

SHEET EXTERIOR ELEVATIONS

NEW FIRE STATION

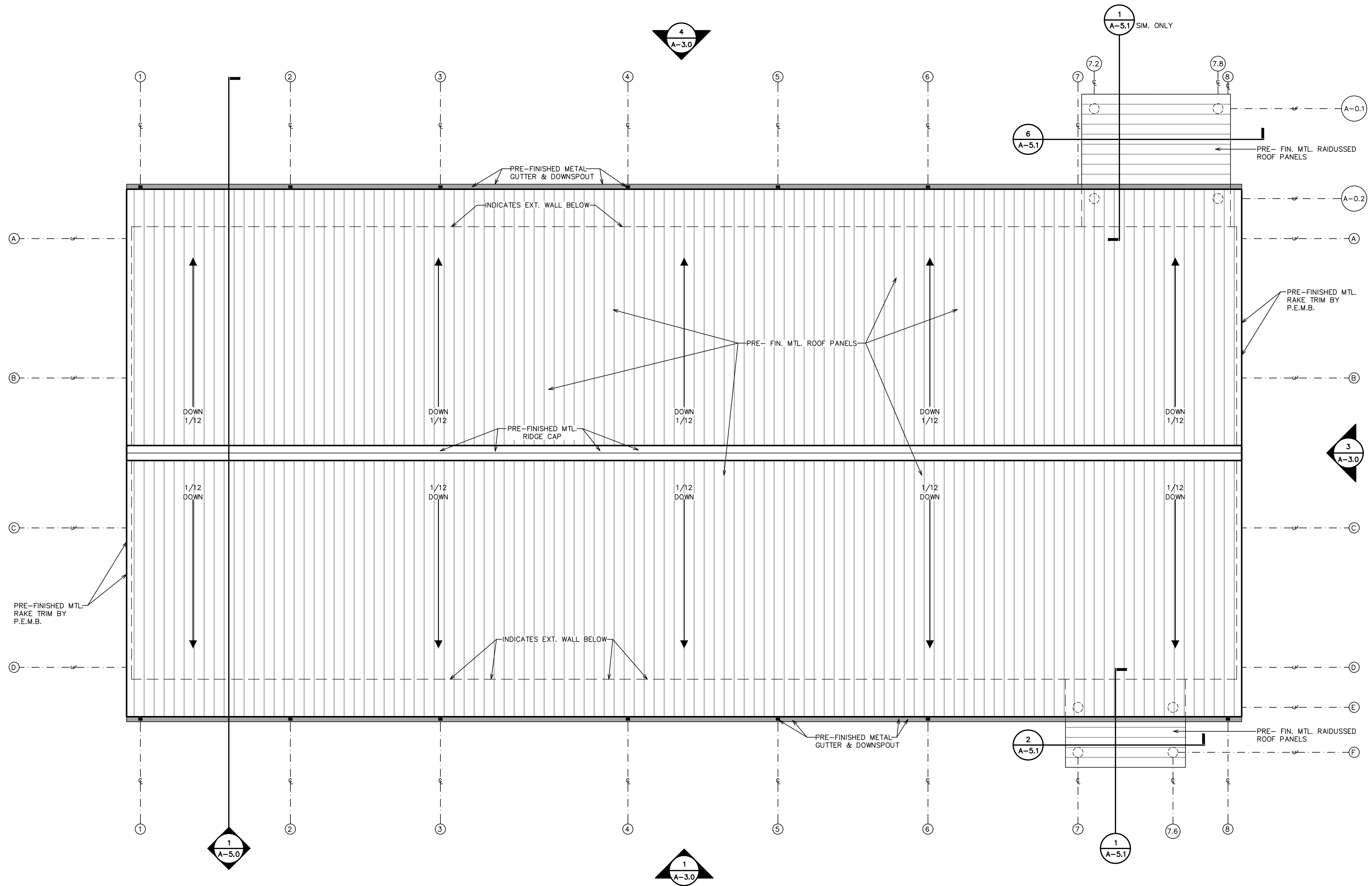
FOR
GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

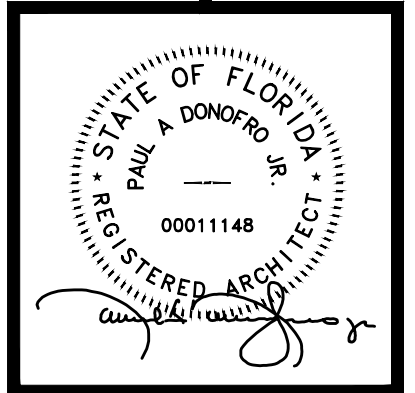
JOB NUMBER: M-2024-12
DATE: AUG 13, 2025
DRAWN BY: C.L.D.
CHECKED BY: P.A.D., JR.

SHEET No.

A-3.0

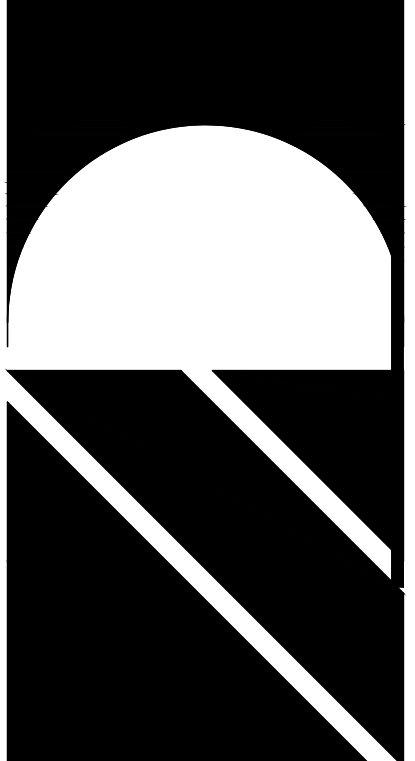


 **ROOF PLAN**
1/8" = 1'-0"



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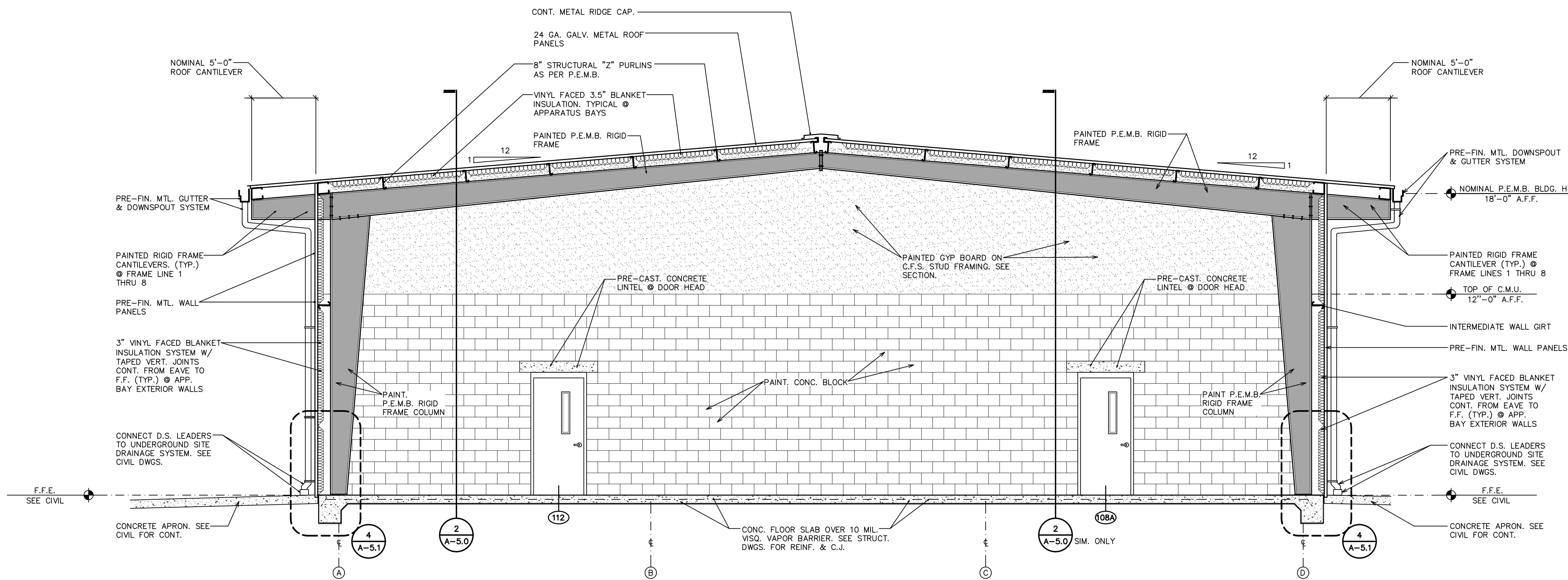


SHEET **ROOF PLAN**
TITLE: **NEW FIRE STATION**
FOR: **GRAND RIDGE FIRE DEPARTMENT**
GRAND RIDGE, FLORIDA

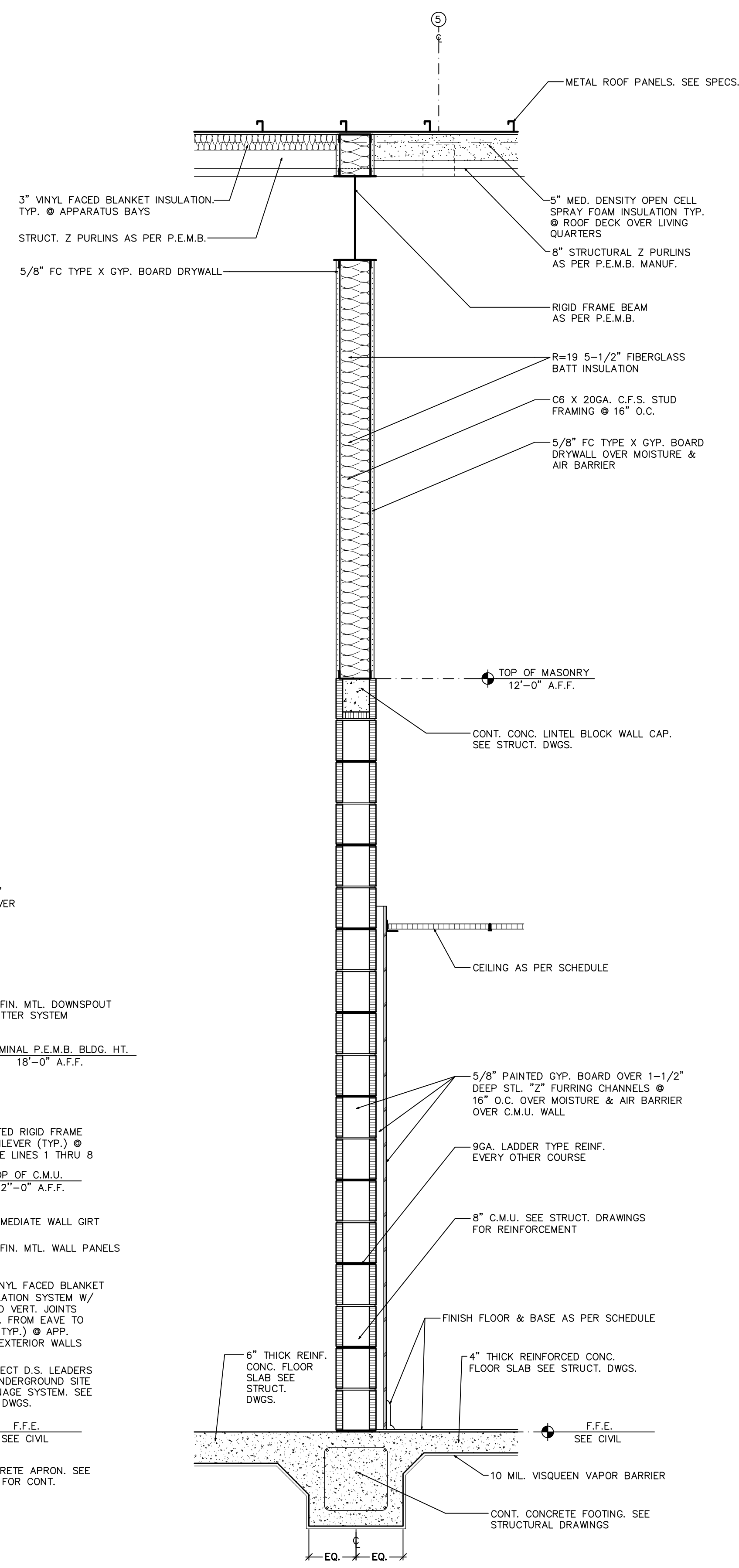
JOB NUMBER: **M-2024-12**
DATE: **AUG 13, 2025**
DRAWN BY: **C.L.D.**
CHECKED BY: **P.A.D., JR.**

SHEET No. **A-4.0**

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AUGUST 13TH, 2025

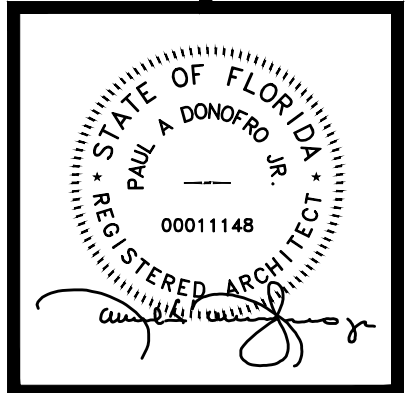


1
A-5.0
TRANSVERSE BUILDING SECTION
1/4" = 1'-0"



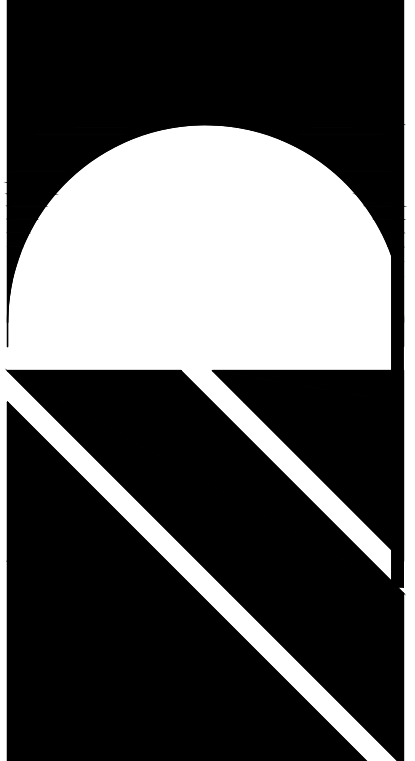
2
A-5.0
CONSTRUCTION SECTION
3/4" = 1'-0"

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DONOFRO ARCHITECTS
AUGUST 13TH, 2025



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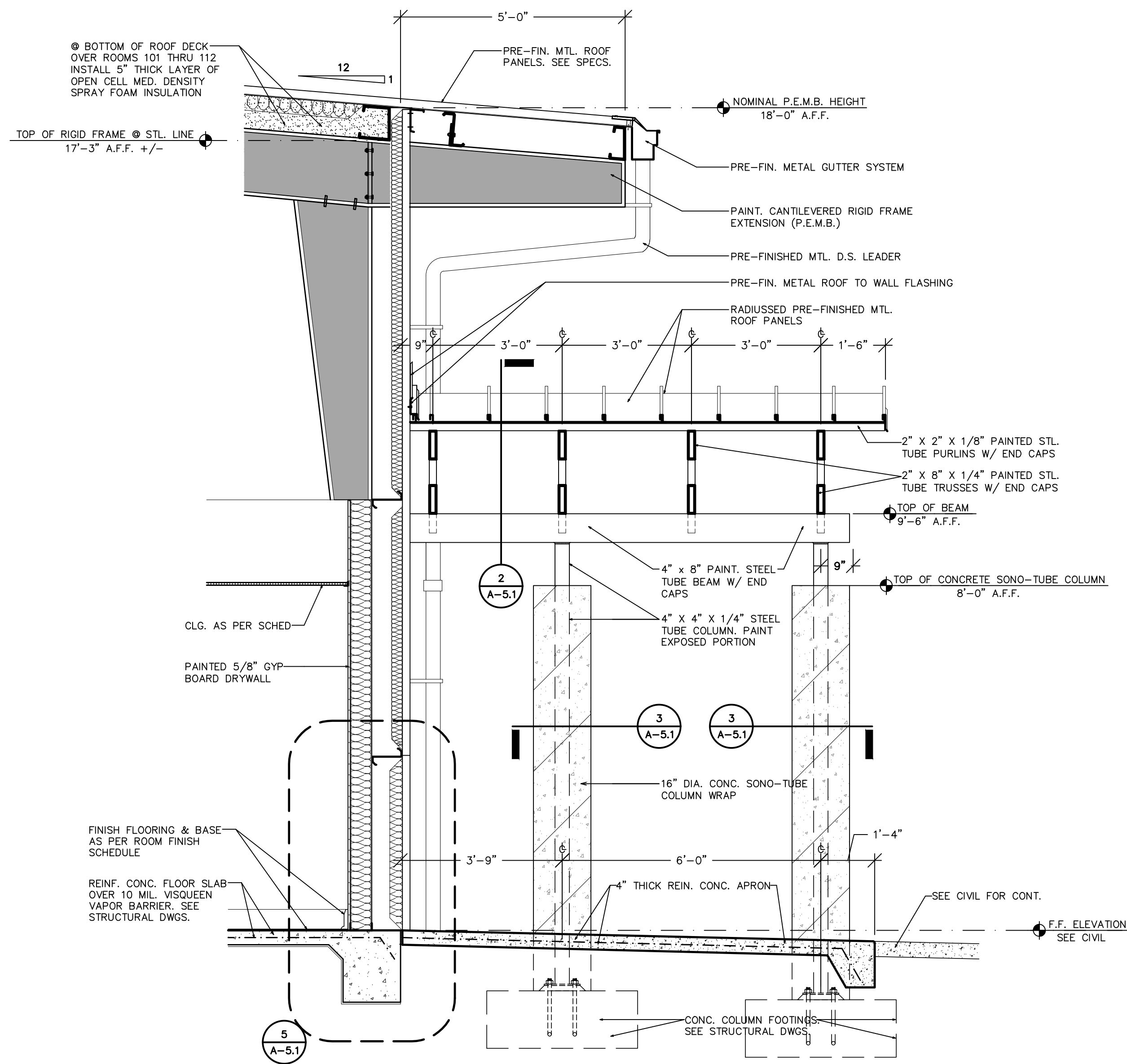
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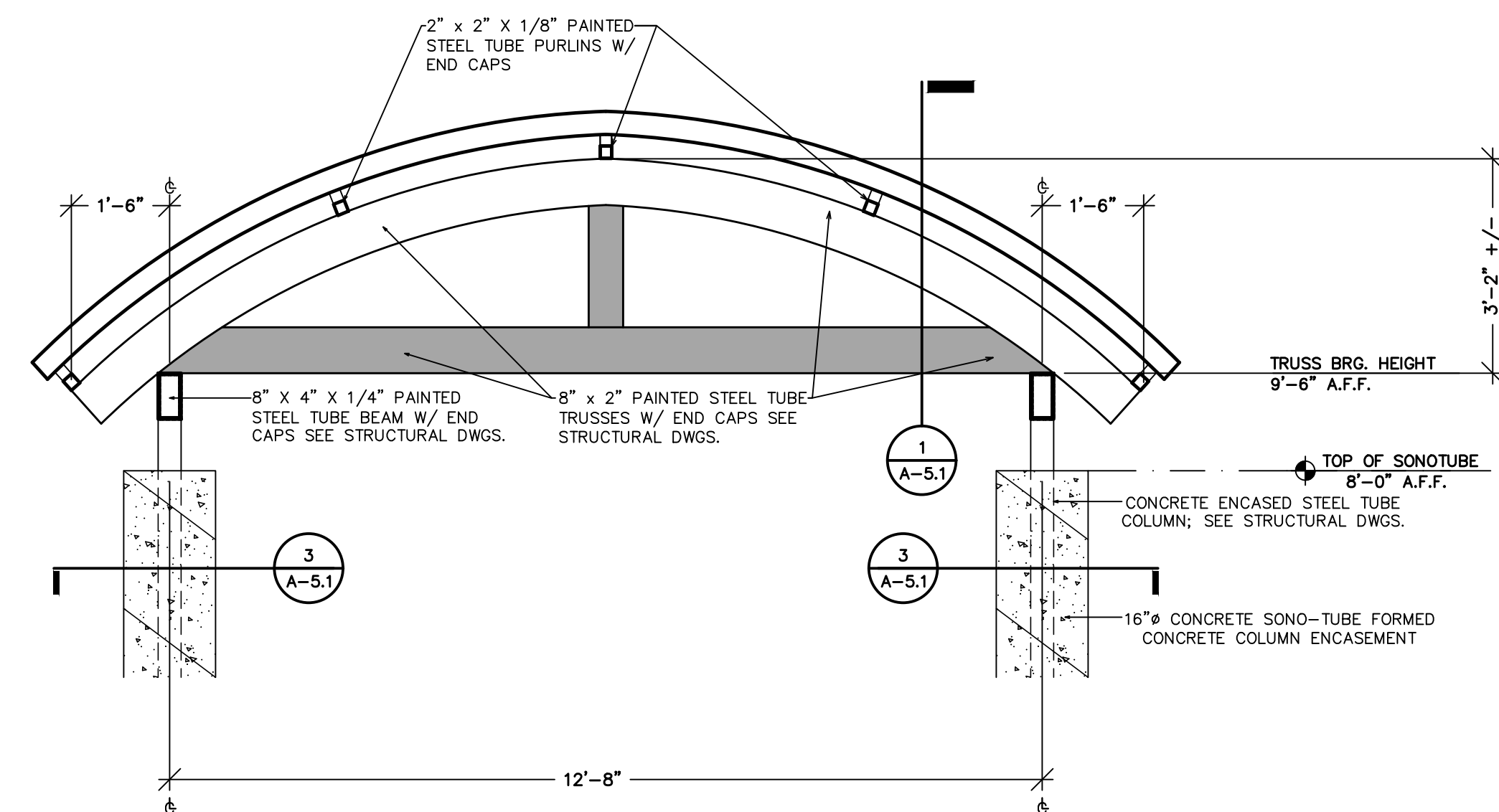
SHEET TRANSVERSE BUILDING SECTION
TITLE: CONSTRUCTION SECTION
FOR: NEW FIRE STATION
FOR: GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12
DATE: AUG 13, 2025
DRAWN BY: C.L.D.
CHECKED BY: P.A.D., JR.

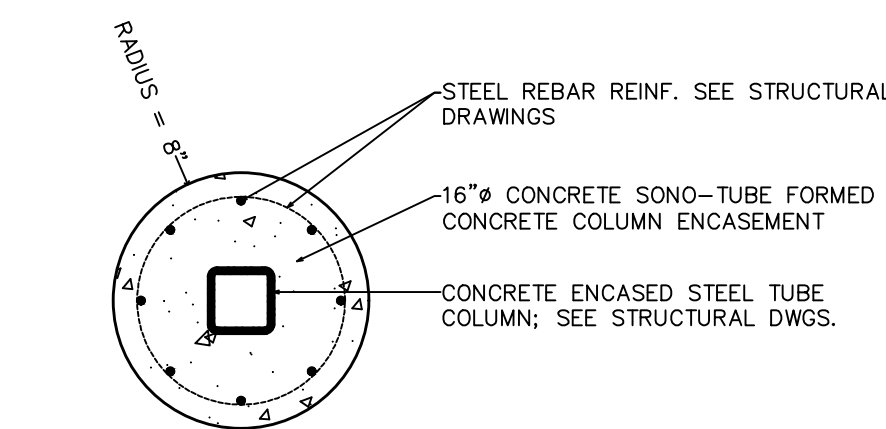
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A-5.0



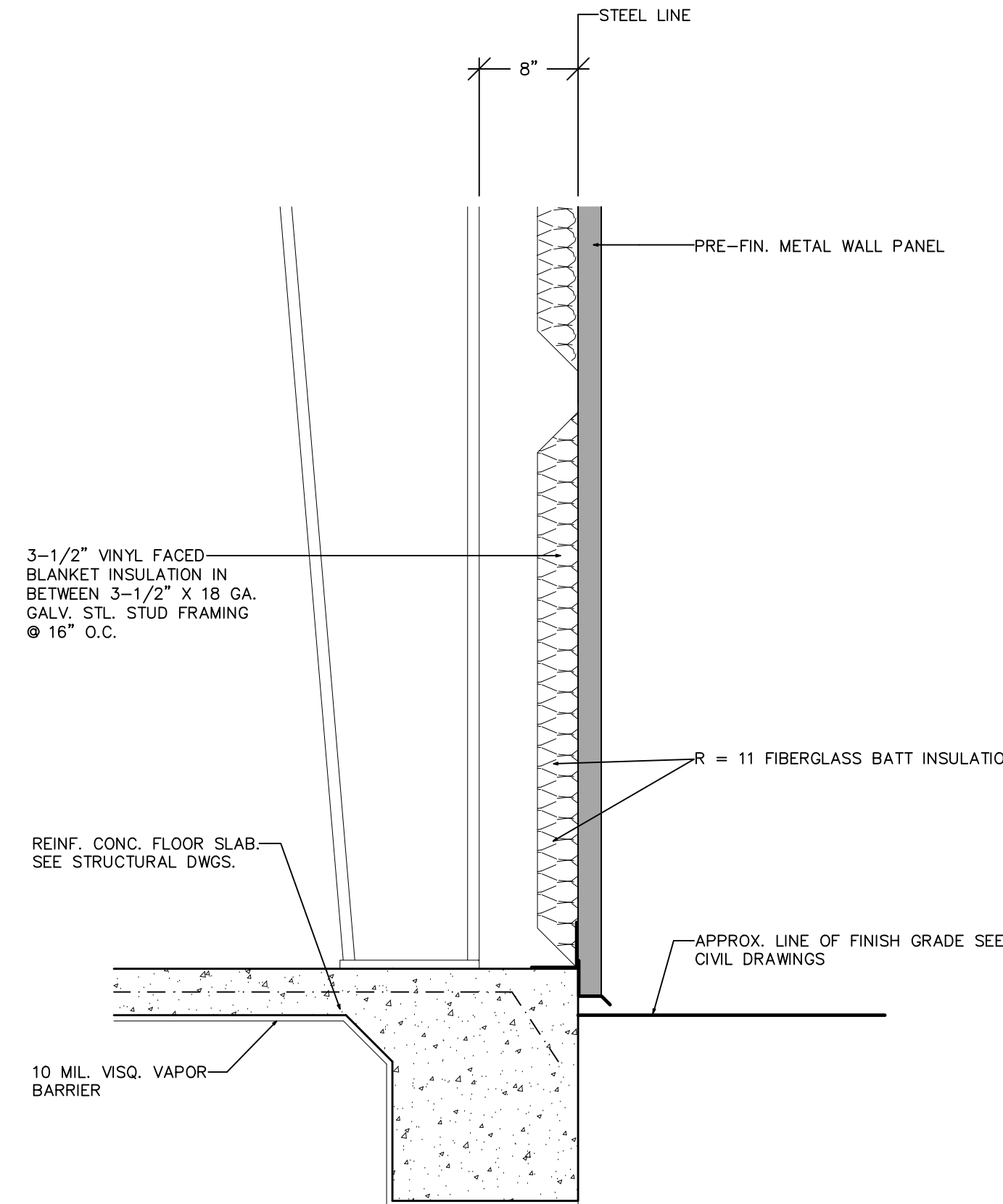
1 CONSTRUCTION SECTION
1/2" = 1'-0"



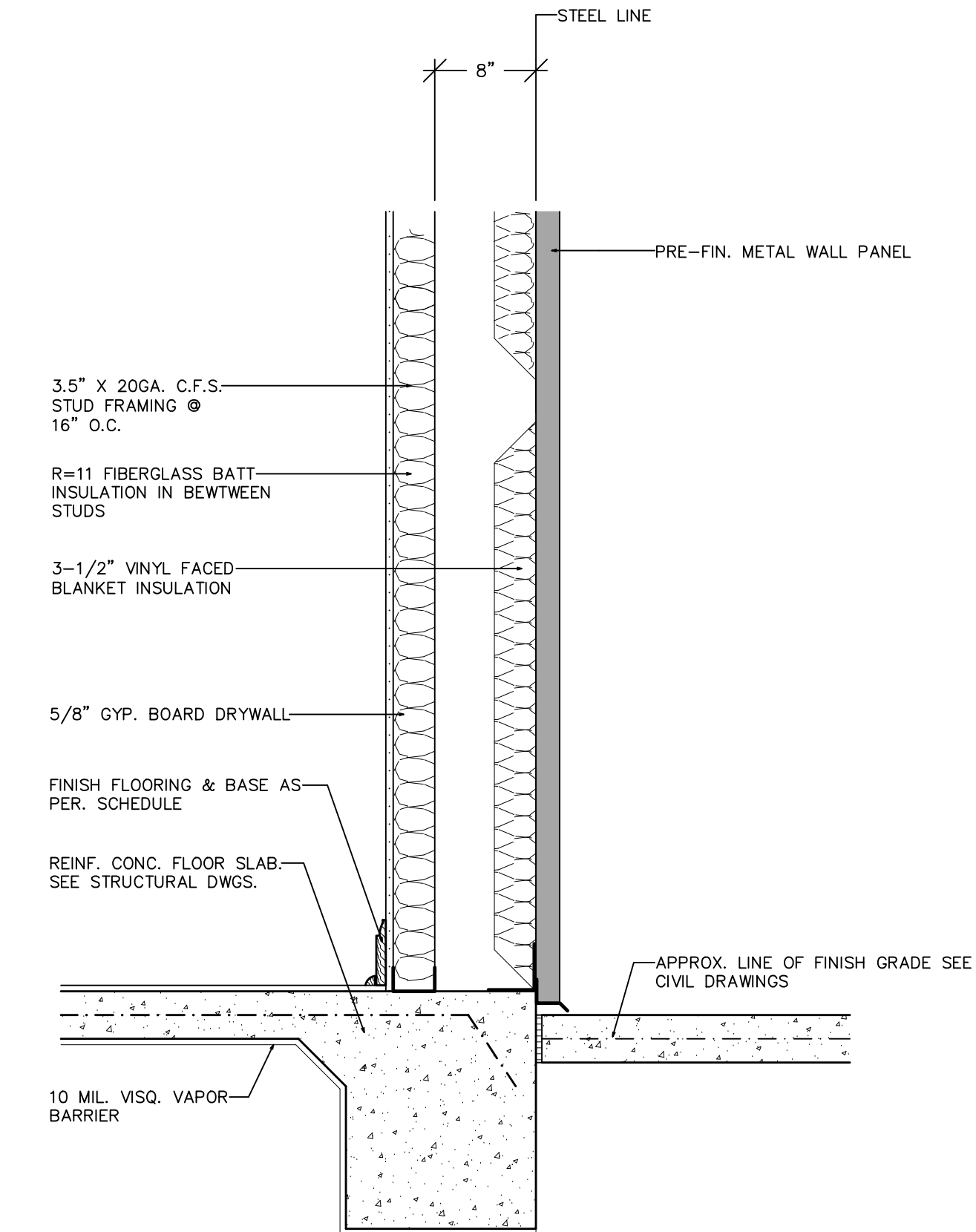
2 CONSTRUCTION DETAIL
1/2" = 1'-0"



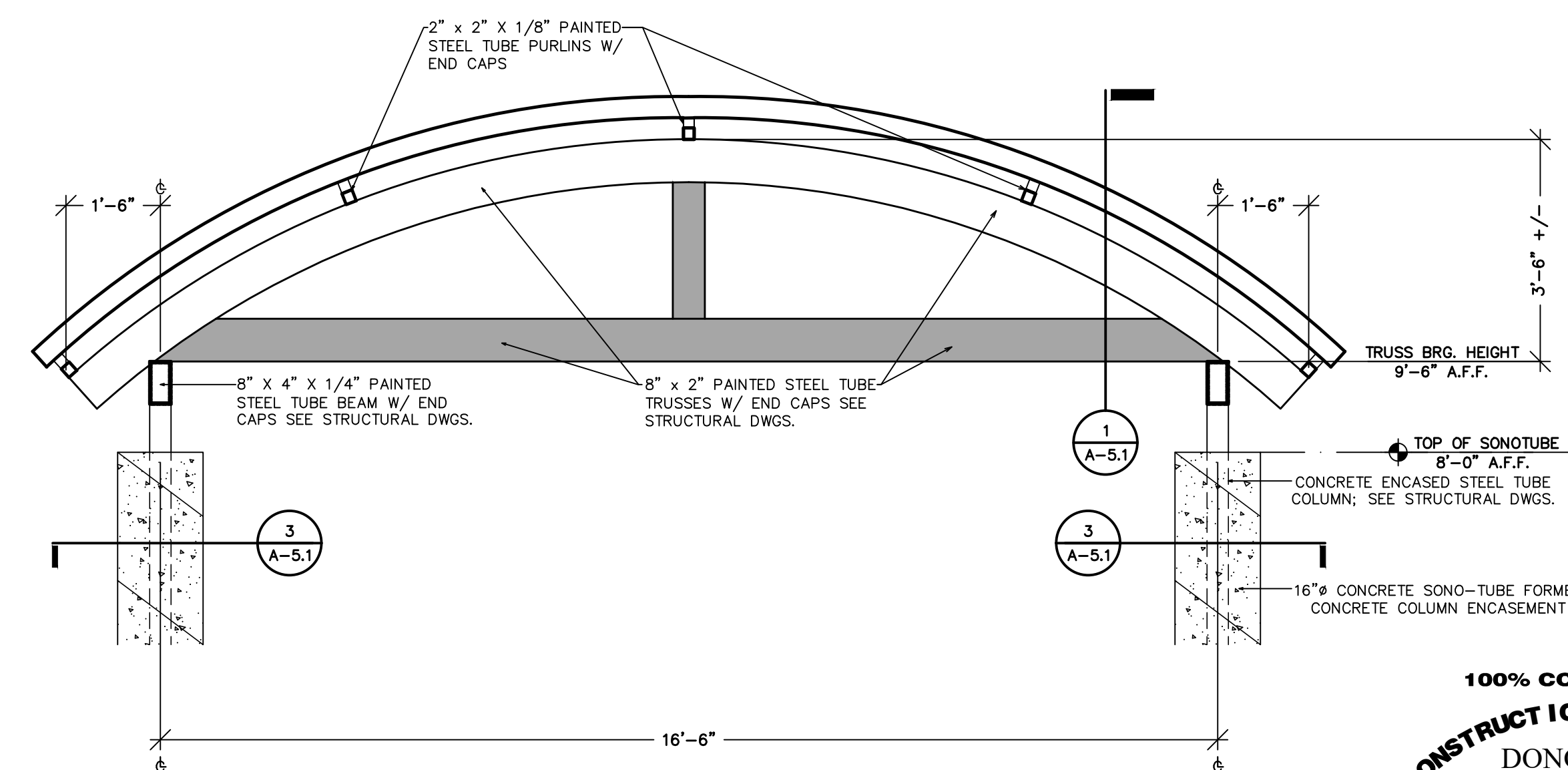
3 CONSTRUCTION DETAIL
1" = 1'-0"



4 PARTIAL WALL SECTION
1" = 1'-0"
AT APPARATUS BAYS

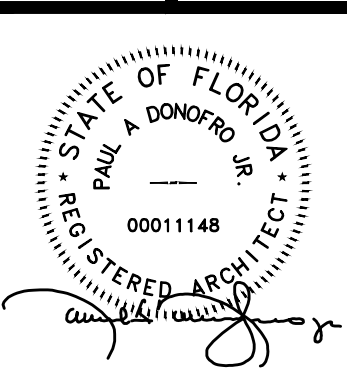


5 PARTIAL WALL SECTION
1" = 1'-0"



6 CONSTRUCTION DETAIL
1/2" = 1'-0"

100% COMPLETE
CONSTRUCTION DOCUMENTS
DONOFRO ARCHITECTS
AUGUST 13TH, 2025



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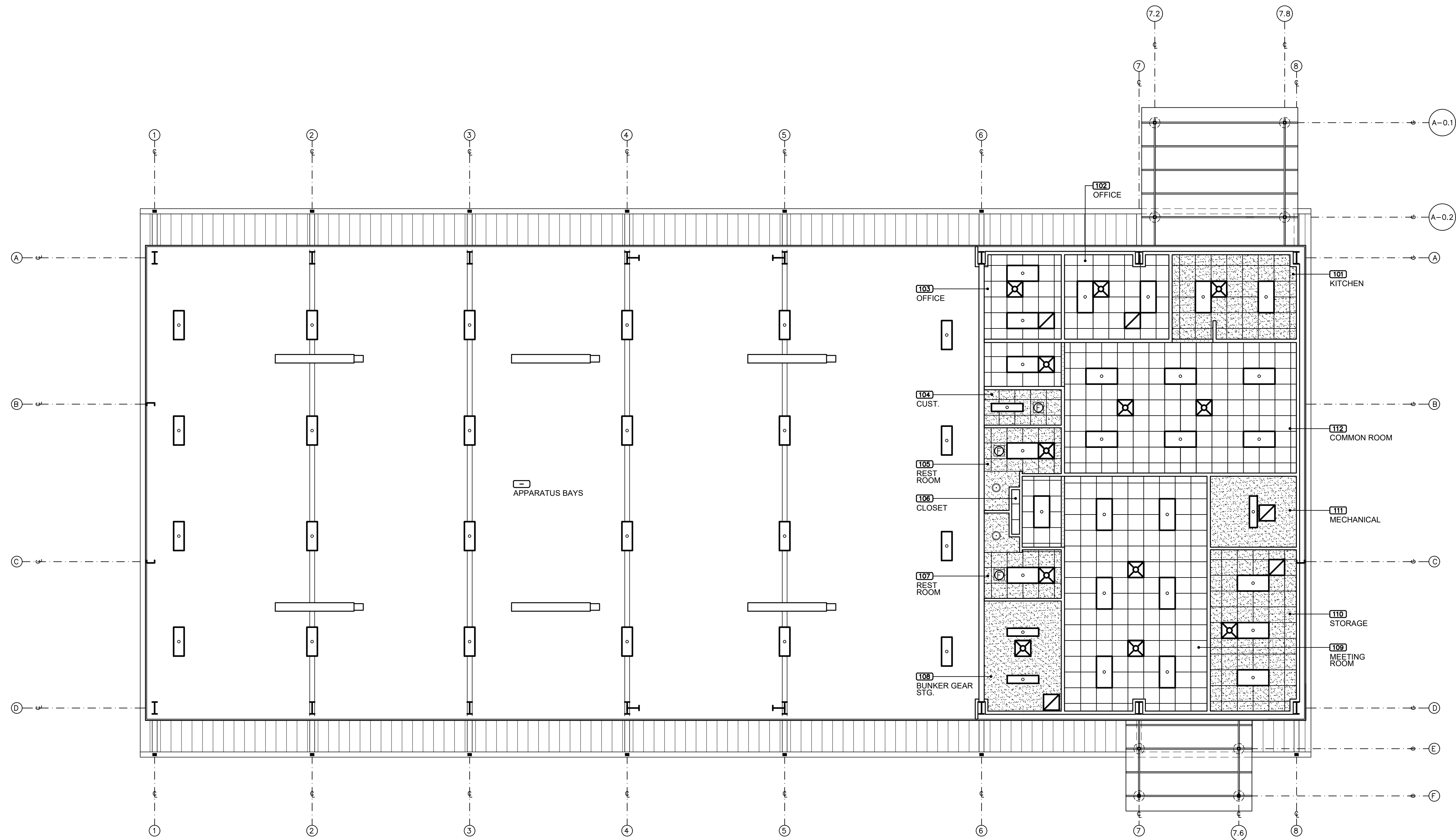
DONOFRO ARCHITECTS
2910 CALEDONIA ST.
MARIANNA, FL 32446
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P.O. BOX 861
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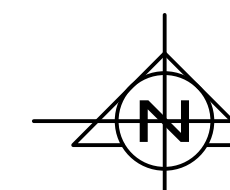


SHEET CONSTRUCTION SECTIONS * DETAILS
TITLE: NEW FIRE STATION
FOR: GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12
DATE: AUG 13, 2025
DRAWN BY: C.L.D.
CHECKED BY: P.A.D., JR.

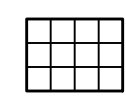
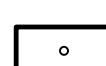


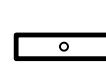

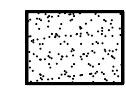
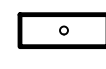
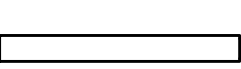
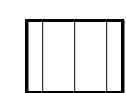

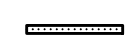



SHEET No.
A-5.1

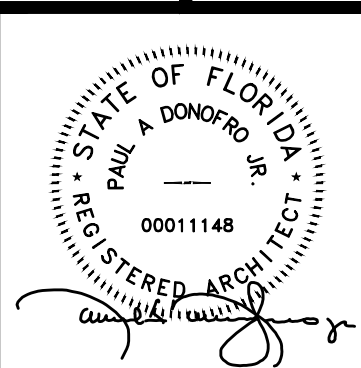


 **REFLECTED CEILING PLAN**
1/8" = 1'-0"

NOTE!
SEE ELECTRICAL DRAWINGS FOR LIGHTS
W/ EMERGENCY BATTERY BACK UP

REFLECTED CEILING PLAN LEGEND

	INDICATES NEW 2' X 2' SUSPENDED GRID & ACOUSTICAL TILE CEILING SYSTEM W/ 3-1/2" THICK SOUND ATTENUATION BLANKETS OVER ALL TILE.		LIGHT FIXTURE, SEE ELECTRICAL		CEILING MTD. FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR. SEE ELECT. DWGS.
	INDICATES NEW 2' X 2' SUSPENDED GRID & VINYL COVERED GYP. BOARD TILE CEILING SYSTEM W/ 3-1/2" THICK SOUND ATTENUATION BLANKETS OVER ALL TILE.		LIGHT FIXTURE, SEE ELECTRICAL		CEILING MTD. AUTOMATIC HEAT DETECTOR. SEE ELECT. DWGS.
	NEW 5/8" PAINTED GYP. BOARD CEILING		LIGHT FIXTURE, SEE ELECTRICAL		INFRARED RADIANT HEATERS. SEE MECH.
	BOTTOM OF METAL ROOF PANELS ABOVE		HVAC DIFFUSERS, SEE HVAC PLAN		
	NEW BULKHEAD		RETURN AIR, SEE HVAC PLAN		
	ROOM FINISH SCHEDULE REFERENCE SYMBOL		EXHAUST FAN, SEE HVAC PLAN		



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SHEET REFLECTED CEILING PLAN * LEGEND * NOTES
TITLE:
NEW FIRE STATION
FOR:
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12
DATE:
AUG 13, 2025
DRAWN BY:
C.L.D.
CHECKED BY:
P.A.D., JR.

SHEET No.
A-6.0

GENERAL NOTES

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY, AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
6. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
7. LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADING USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
8. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
9. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.
10. AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
- A. STEEL REINFORCING SHOP DRAWINGS
B. CONCRETE MASONRY UNIT MATERIAL SUBMITTALS
C. STRUCTURAL STEEL SHOP DRAWINGS
D. CAST-IN-PLACE CONCRETE MIX DESIGNS
- **OTHER SUBMITTALS MAY BE REQUIRED PER THE NOTES CONTAINED HEREIN AND THE PROJECT SPECIFICATIONS.
11. ALL "STRUCTURAL SUBMITTALS" SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION, INSTALLATION, AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEER'S SIGNATURE AND AN INDICATION THAT HE OR SHE CHECKED THE WORK.
12. DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SIGNED, SEALED, AND DATED BY THE ENGINEER PREPARING SUCH WORK.

DESIGN CRITERIA

1. THE INTENDED DESIGN STANDARDS AND/OR CRITERIA ARE AS FOLLOWS:

GENERAL CONCRETE	2023 FLORIDA BUILDING CODE, BUILDING (FBC-B) 8th EDITION
STRUCTURAL STEEL	ACI 318-19 (LRFD) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
MASONRY	AISC 360-16 (ASD) SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
	TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. DESIGN SUPERIMPOSED GRAVITY DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

METAL ROOF DECK (24 GA.)	1.7 PSF
INSULATION (3.5")	5.3 PSF
Z-PURLINS PER PEMB (8")	0.5 PSF
RIGID FRAME PER PEMB	5.0 PSF
SUPERIMPOSED GRAVITY DEAD LOAD	12.5 PSF

3. DESIGN COLLATERAL DEAD LOAD USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

SUSPENDED CEILING	3 PSF
LIGHTING	1 PSF
HVAC	1 PSF
COLLATERAL DEAD LOAD	5 PSF

4. DESIGN SUPERIMPOSED GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

OCCUPANCY	UNIFORM
ROOF	20 PSF

5. DESIGN LATERAL WIND LOADS USED IN THE DESIGN OF THESE STRUCTURES ARE AS FOLLOWS:

WIND LOADS PER ASCE 7-22 (3-SEC GUST)
ULTIMATE WIND SPEED (V_w) = 140 MPH
TORNADO SPEED (V_t) = 59 MPH
RISK CATEGORY IV
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT:
GCp1= +0.18 (ENCLOSED)
TORNADO INTERNAL PRESSURE COEFFICIENT:
GCp1T= +0.55 & -0.18 (ENCLOSED)

6. DESIGN RAINFALL INTENSITY (100-YEAR HOURLY RAINFALL RATE) OF THIS STRUCTURE IS AS FOLLOWS:

RAINFALL INTENSITY (i) = 4.5 IN/YR

7. THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE INTENDED DESIGN, FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.

FOUNDATION NOTES

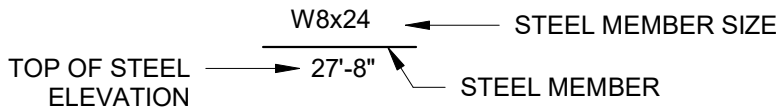
1. ALL FOOTINGS HAVE BEEN DESIGNED USING AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF. ALL CONSOLIDATION OF SUBSOIL SHALL CLOSELY FOLLOW THE GEOTECHNICAL REPORTS PREPARED BY ARDAMAN & ASSOCIATES, DATED DECEMBER 20, 2024. ARDAMAN & ASSOCIATES FILE NUMBER: 113-24-40-1054. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO PLACING FOUNDATION CONCRETE.
2. AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED FOR EACH ISOLATED FOOTING AND EACH 50 LINEAR FEET OF CONTINUOUS WALL FOOTING PER LIFT TO VERIFY DESIGN BEARING CAPACITIES.
3. ALL FOUNDATION CONCRETE SHALL OBTAIN A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
4. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
6. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
- A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"
- B) CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS - 2"
#5 BAR, W31 OR D31 WIRE & SMALLER- 1 1/2"
7. ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES UNLESS OTHERWISE INDICATED.
8. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
9. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING AND NEW UTILITIES. FOUNDATIONS SHALL BE STEPPED OR SLEEVED AS REQUIRED TO AVOID UTILITIES.
10. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.

CONCRETE MASONRY NOTES

1. MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 402/602-16)", PUBLISHED BY THE MASONRY SOCIETY.
2. THE MINIMUM DESIGN COMPRESSIVE STRENGTH OF THE MASONRY (fm) SHALL BE 2,000 PSI AT 28 DAYS AS DETERMINED BY THE UNIT STRENGTH METHOD USING TABLE 2 IN THE TMS 602 SPECIFICATION. THE STRUCTURE IS SUPPORTED BY BEARING WALLS UNLESS NOTED OTHERWISE. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.
3. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N. BLOCK SHALL HAVE A NET AREA COMPRESSIVE STENGTH OF 2,800 PSI AND SHALL BE MANUFACTURED WITH NORMAL WEIGHT AGGREGATE.
4. THE USE OF MASONRY-CEMENT MORTAR IS STRICTLY PROHIBITED. MORTAR SHALL CONFORM TO ASTM C-270, TYPE S EXCEPT USE TYPE M MORTAR BELOW GRADE. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM C-270 AND SHALL BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED). HEAD AND BED JOINTS SHALL BE 3/8" FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS; IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2" OR MORE INTO THE CELL.
5. FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH FINE GROUT. GROUT SHALL CONFORM TO ASTM C-476 AND SHALL OBTAIN A MIN. 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT WITH A SLUMP OF 8" TO 10". GROUT ALL MASONRY CONTAINING REINFORCING, ALL CELLS OF 4 HOUR RATED WALLS, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" MAXIMUM LIFTS, WITH 1/2 HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
6. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. USE BAR SPACERS AT 10 FT. O.C. WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
7. UNLESS OTHERWISE INDICATED, ALL WALLS SHALL BE LAID IN RUNNING BOND. SAWCUT UNITS WHICH ARE NOT IN MULTIPLES OF 8" . UNITS SHALL BE AT LEAST 8" LONG. BOND CORNERS BY LAPPING 8" IN SUCCESSIVE VERTICAL COURSES.
8. PROVIDE VERTICAL REINFORCING BARS OF THE GIVEN SIZE AND SPACING AS INDICATED.
9. PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING.
10. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS INDICATED. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT BEARING ELEVATIONS.
11. ALL VERTICAL WALL REINFORCING SHALL BE EXTENDED TO WITHIN 2" OF THE TOP OF ALL WALLS.
12. PROVIDE STANDARD 9 GAUGE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER IN ALL WALLS. JOINT REINFORCING AND ANCHORS IN EXTERIOR WALLS SHALL CONFORM TO ASTM A153 CLASS B2, WITH A COATING THICKNESS OF 1.50 OZ/SF; CONFORM TO ASTM A641 IN INTERIOR WALLS. OVERLAP DISCONTINUOUS ENDS 8". USE PREFABRICATED CORNERS AND TEES. PROVIDE LADDER TYPE JOINT REINFORCING FOR ALL CONCRETE MASONRY. STOP ALL HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS.
13. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 602.
14. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL DOOR AND WINDOW OPENINGS.
15. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION (SEE "GENERAL NOTES").
16. WHERE ANCHOR BOLTS, WEDGE ANCHORS OR ANCHORS SET IN EPOXY ARE SET IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW. DO NOT SET MORE THAN ONE ANCHOR PER CELL.
17. WALL CONTROL JOINTS SHALL BE SPACED AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 1.5 TIMES THE WALL HEIGHT. SEE LOCATIONS ON FOUNDATION PLAN.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE 2017 AISC STEEL CONSTRUCTION MANUAL AND ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS:
- | MEMBER | ASTM | MIN. STRENGTH |
|----------------------------|----------------|---------------|
| STRUCTURAL TUBING | A500 (GRADE B) | 46 KSI |
| WIDE FLANGE SHAPES | A992 | 50 KSI |
| OTHER ROLLED PLATES/SHAPES | A36 | 36 KSI |
| CONNECTION BOLTS | A325 | 92 KSI |
| ANCHOR RODS | F1554 | 36 KSI |
| THREADED RODS | A36 | 36 KSI |
| NONSHRINK GROUT | C1107 | 5000 PSI |
3. TRUSS JOINTS, HANGERS, AND DIAGONAL BRACING (AS OCCURS) SHALL HAVE SLIP-CRITICAL CONNECTIONS, ALL OTHER CONNECTIONS SHALL HAVE NON-SLIP CRITICAL BEARING-TYPE CONNECTIONS.
4. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR FOR THE FACTORED SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR LOAD AND RESISTANCE FACTOR DESIGN, 15TH EDITION. CONNECTIONS SHALL UTILIZE MINIMUM 3/4-INCH DIAMETER A325-N BOLTS. SLOTTED HOLES ARE PERMITTED ONLY WHERE THE DIRECTION OF THE LOAD IS NORMAL TO THE AXIS OF THE SLOT. BOLTS USED IN SHEAR/BEARING TYPE CONNECTIONS SHALL BE "SNUG-TIGHT". BOLTS USED IN SLIP-CRITICAL CONNECTIONS SHALL BE TIGHTENED USING THE TURN-OF-THE NUT METHOD, CALIBRATED WRENCH METHOD, OR DIRECT TENSION INDICATOR BOLTS.
5. UNLESS OTHERWISE NOTES OR IF FACTORED SHEAR FORCES ARE NOT SHOWN ON THE PLANS, PROVIDE SIMPLE SHEAR TYPE CONNECTIONS THAT UTILIZE THE MAXIMUM NUMBER OF ROWS AT 3 INCH STANDARD BOLT SPACING USING MINIMUM 3/4-INCH DIAMETER A325-N BOLTS. ALL BOLTS SHALL BE SHEAR/BEARING TYPE BOLTS AND BE "SNUG-TIGHT".
6. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED, PROVIDE CONT. MIN. SIZED FILLET WELDS PER AISC REQUIREMENTS. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 58 KSI.
7. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
8. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A159. ALL STRUCTURAL TUBE, PIPE SHAPES, AND STRUCTURAL ASSEMBLIES SHALL HAVE ADEQUATE DRAIN HOLES AND SEAL WELDS.
10. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL NOTES").
11. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. STEEL FABRICATOR SHALL BE THOSE QUALIFIED FABRICATORS THAT HAVE SUCCESSFULLY COMPLETED A MINIMUM OF FIVE PROJECTS OF SIMILAR SIZE AND SCOPE WITHIN THE PAST 2 YEARS.
13. PROTECTIVE COATINGS DAMAGED DURING THE TRANSPORTING, ERECTING, AND FIELD WELDING PROCESSES SHALL BE REPAIRED IN THE FIELD TO MATCH THE SHOP APPLIED COATING.
14. ALL COLUMNS ERECTED IN THE FIELD SHALL BE PLUMBED IN ACCORDANCE TO AISC TOLERANCES USING LASER OR OTHER SIMILAR EQUIPMENT.
15. THE FOLLOWING IS AN EXAMPLE OF A TYPICAL STEEL BEAM CALLOUT:



CAST-IN-PLACE CONCRETE NOTES

1. CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595, AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618, C-989 AND C-260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH C-94.
2. CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND WATER/CEMENT RATIO REQUIREMENTS:
- | CONCRETE BEAMS AND COLUMNS | (28 DAY STRENGTH) | SLUMP* | W/C RATIO |
|----------------------------|---------------------------|---------|-----------|
| CONCRETE NOT NOTED | 4,000 PSI | 4" ± 1" | 0.46 |
| FOUNDATIONS | 3,000 PSI | 4" ± 1" | 0.50 |
| SLABS | "SEE FDN NOTES" | 4" ± 1" | 0.50 |
| | "SEE SLAB ON GRADE NOTES" | | |
- * AT CONTRACTOR'S OPTION, AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURER'S TECHNICAL DATA FOR APPROVAL PRIOR TO PLACING THE CONCRETE.
3. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4.
5. ALL WELDED WIRE REINFORCING (WWR) SHALL CONFORM TO A-185.
6. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.
7. REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) SHALL BE LAPPED WITH A CLASS B TENSION LAP SPLICE UNLESS OTHERWISE NOTED.
8. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
- A) CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS 2"
#5 BAR, W31 OR D31 WIRE & SMALLER 1 1/2"
- B) CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLABS, WALLS, JOISTS:
#14 AND #18 BARS 1 1/2"
#11 BAR AND SMALLER 3/4"
- BEAMS AND COLUMNS:
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1 1/2"
- C) FOUNDATION CONCRETE (SEE "FOUNDATION NOTES")
9. BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR STAINLESS STEEL.
10. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.

COLD-FORMED METAL FRAMING

1. DESIGN, DETAIL, AND ERECT EXTERIOR COLD-FORMED METAL FRAMING IN ACCORDANCE WITH THE GENERAL NOTES AND SPECIFICATIONS.
2. COLD-FORMED STEEL FRAMING DETAILS SHOWN ON CONTRACT DOCUMENTS REPRESENT THE MINIMUM DESIGN INTENT TO BE FOLLOWED. CONNECTIONS NOT DETAILED IN CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY THE DELEGATED ENGINEER ACCORDING TO SPECIFICATIONS AND REQUIREMENTS HEREIN. THE MINIMUM DESIGN THICKNESS OF EXTERIOR COLD-FORMED METAL FRAMING SHALL BE 43 MILS. NO EXCEPTIONS WILL BE ACCEPTED.
3. SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS SHOWING METHOD OF FABRICATION, ERECTION PROCEDURES, ATTACHMENT OF THE SYSTEM TO THE BUILDING, JOINTS, CONNECTIONS AND FRAMING. CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED, SIGNED AND SEALED BY THE DELEGATED ENGINEER LICENSED IN THE STATE OF FLORIDA.
4. USE GALVANIZED STEEL "C" STUDS, TRACKS, ANGLES AND STRAPS AS SHOWN ON DRAWINGS AND DETAILS HAVING A MINIMUM YIELD STRENGTH AS FOLLOWS:
- 54 MIL THICKNESS AND GREATER: Fy= 50 KSI MIN.
43 MIL THICKNESS: Fy= 30 KSI MIN.
- ALL TRACKS TO HAVE SAME DESIGN THICKNESS AS STUDS WITH MINIMUM 1 1/4 " LEGS. UNLESS NOTED OTHERWISE.
5. DOOR AND WINDOW SILLS, HEADERS, AND JAMBS SHALL BE DESIGNED TO RESIST WIND FORCES ON TRIBUTARY WINDOWS AND DOORS AND TO TRANSMIT THE FORCES TO THE PRIMARY STRUCTURAL FRAME.
6. ALL JAMBS, HEADERS, AND OTHER BUILT-UP MEMBERS SHALL BE CONSTRUCTED USING UNPUNCHED MATERIAL.
7. ALL JAMB STUDS SHALL BE FASTENED TOGETHER TO FORM A CONTINUOUS BUILT-UP SECTION.
8. SCREWS, WHERE REQUIRED, SHALL MEET THE MINIMUM REQUIREMENTS OF SAE J429 GRADE 5; AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766.
9. FIELD CUTTING OF COLD-FORM METAL FRAMING SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT PERMITTED.
10. LIMIT DEFLECTIONS OF STUDS BETWEEN SUPPORTS TO L/600 WHEN SUPPORTING MASONRY, L/360 WHEN SUPPORTING GYPSUM WALL BOARD OR PORTLAND CEMENT STUCCO AND L/240 FOR OTHER CONDITIONS.
11. ADD WEB STIFFENERS AT CONCENTRATED LOADS AS REQUIRED BY DESIGN.
12. ALL WELDERS SHALL BE CERTIFIED BY AWS FOR THIN METAL SECTIONS.

JAMIE M. GRAHAM, P.E.

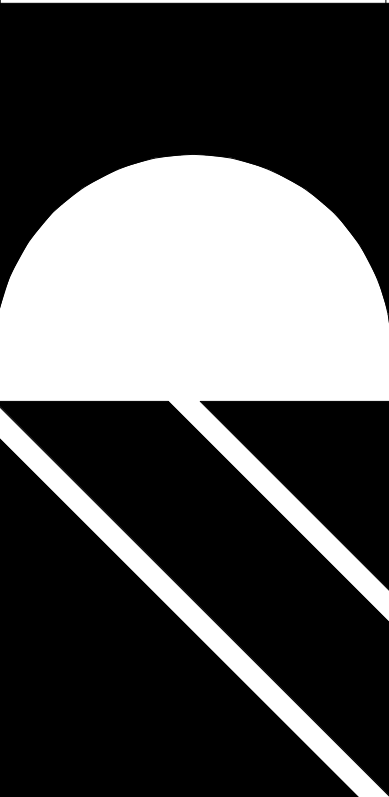
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SHEET STRUCTURAL NOTES

TITLE: NEW FIRE RESCUE STATION

FOR THE:

TOWN OF GRAND RIDGE

GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT

DATE: AUG. 13, 2025

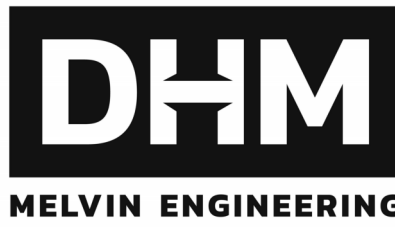
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S-1.0

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CONSTRUCTION DOCUMENTS



EB-0005637 | LB-006435 | LC-0000277

TALLAHASSEE
2541-1 BARRINGTON CIRCLE
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PRE-ENGINEERED METAL BUILDING NOTES

1. THE ENTIRE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER IN CONFORMANCE WITH THE PROVISIONS OF THE 2023 FLORIDA BUILDING CODE, BUILDING (FBC-B), 8TH EDITION AND THE 2018 METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA) METAL BUILDING SYSTEMS MANUAL.
2. THE MANUFACTURER'S FACILITY SHALL BE ACCREDITED ACCORDING TO THE INTERNATIONAL ACCREDITATION SERVICE'S AC472, "ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS."
3. THE BUILDING FRAMES AND COMPONENTS SHALL BE DESIGNED TO LIMIT DEFLECTIONS AND LATERAL DRIFT TO THE FOLLOWING RATIOS UNDER CONTROLLING GRAVITY, WIND, AND COMBINED LOADINGS:

FRAME MAXIMUM VERTICAL DEFLECTION	L/180
FRAME LIVE LOAD VERTICAL DEFLECTION	L/240
FRAME LATERAL DRIFT (AT EAVE LINE)	L/100
ROOF PURLIN MAXIMUM DEFLECTION	L/240
ROOF PURLIN LIVE LOAD DEFLECTION	L/360
WALL GIRT MAXIMUM LATERAL DEFLECTION	L/240

4. A COMPREHENSIVE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR THE RIGID FRAMES, GIRTS, PURLINS, X-BRACING, AND CRANE RUNWAY BEAMS FOR GRAVITY, WIND, AND CRANE LOADS AND A LAYOUT OF ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF ALL MAIN MEMBERS, TYPICAL CONNECTIONS (SHOWING BOLT HOLES AND WELDS), ANCHOR BOLTS AND ERECTION DRAWINGS. ALL OF THE ABOVE ARE TO BE SUPPLIED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.
5. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL OVERHEAD DOORS, DOOR FRAMES AND MECHANICAL EQUIPMENT INCLUDING EXHAUST SYSTEMS, ETC. ADDITIONAL PURLINS OR GIRTS SHALL BE PLACED AT REQUIRED LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.
6. REFER TO DESIGN CRITERIA FOR WIND LOADING REQUIREMENTS.

7. THE PRELIMINARY FOUNDATION DESIGN IS BASED UPON DESIGN LOADS COMPUTED BY THE ENGINEER OF RECORD. FOUNDATION REACTIONS SHALL BE PROVIDED PRIOR TO CONSTRUCTION OF ANY FOUNDATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE ITEMS AND ANY ADDITIONAL CONSTRUCTION COSTS ASSOCIATED WITH FOUNDATION REVISIONS REQUIRED IF CONSTRUCTION OF FOUNDATIONS ARE COMPLETED PRIOR TO REVIEW AND APPROVAL OF FINAL FOUNDATION REACTIONS PROVIDED BY THE MANUFACTURER.

8. DESIGN CALCULATIONS FOR THE BUILDING FRAME, BUILDING COMPONENTS, AND FOR ANY FOUNDATION REDESIGN SHALL BE PREPARED, SIGNED, SEALED, AND DATED BY A PROFESSIONAL ENGINEER LICENSED IN FLORIDA AND EMPLOYED BY THE MANUFACTURER.

9. THE CONSTRUCTION MANAGER SHALL SUBMIT, AS A PART OF THE PROPOSAL OR BID TO THE OWNER, A CERTIFICATE FROM THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SELECTED TO FURNISH THE PRE-ENGINEERED PORTION OF THE WORK STATING THE FOLLOWING:

"MANUFACTURER'S NAME] CERTIFIES THAT STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS DESCRIBING THE GEOMETRY, LOADING CONDITIONS, DEFLECTION AND DRIFT LIMITATIONS, AND OTHER SPECIFIC REQUIREMENTS FOR THIS PROJECT HAVE BEEN EXAMINED IN DETAIL BY OUR PROJECT MANAGER AND DESIGN ENGINEER. WE ACKNOWLEDGE THAT SOME REQUIREMENTS DESCRIBED IN THE CONSTRUCTION DOCUMENTS MAY BE MORE STRINGENT THAN MBMA REQUIREMENTS AND OUR NORMAL DESIGN AND SHOP PRACTICE. WE CERTIFY THAT WE UNDERSTAND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THAT OUR PROPOSAL TO THE CONSTRUCTION MANAGER FOR SUPPLYING THE PRE-ENGINEERED METAL BUILDING AND ITS COMPONENTS WILL MEET OR EXCEED ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS."

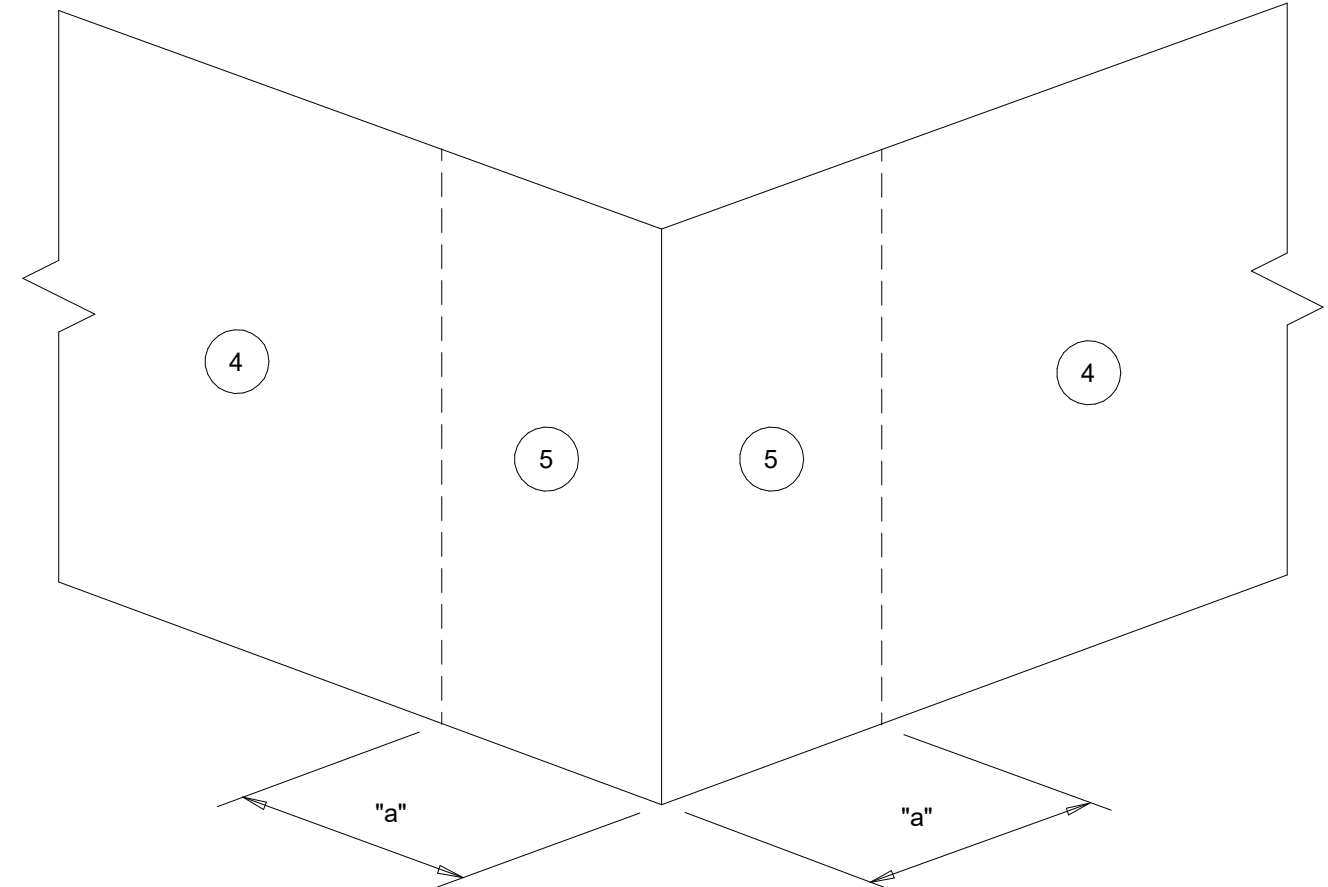
FAILURE OF THE MANUFACTURER TO PROVIDE THIS CERTIFICATE SHALL BE REGARDED AS NON-RESPONSIVE BY THE CONSTRUCTION MANAGER AND MANUFACTURER'S PROPOSAL SHALL BE CONSIDERED INVALID.

SLAB ON GRADE NOTES

1. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
2. ABOVE SUBGRADE, USE TERMITE TREATED FILL CONTAINING NOT MORE THAN 12% PASSING, BY DRY WEIGHT, FINER THAN THE U.S. NO. 200 MESH SIEVE AND MAXIMUM 1" DIAMETER. COMPACT TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. EACH LAYER OF FILL SHALL NOT EXCEED 12" INCHES LOOSE THICKNESS. COMPACT PRIOR TO PLACEMENT OF NEXT LIFT.
3. FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF ONE FIELD DENSITY TEST (ASTM D-1556-OR D-2922) FOR EACH 2,500 SQUARE FEET OF EACH LIFT OF FILL PLACED.
4. ALL CONCRETE FOR SLAB-ON-GRADE SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. PLACE CONCRETE WITH A MAXIMUM 4" SLUMP +/- 1 INCH AS MEASURED AT POINT OF DISCHARGE. REINFORCE WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING UNLESS NOTED OTHERWISE.
5. FOR INTERIOR AND EXTERIOR SLABS PLACE VAPOR BARRIER BETWEEN SOIL AND BOTTOM OF SLAB. SEE SPECIFICATIONS FOR REQUIREMENTS.
6. ALL WELDED WIRE REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH LENGTH.
7. SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINT, THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS FOLLOWS:
- 6" SLAB - AROMATIC POLYUREA JOINT FILLER
8. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR WALKWAYS AND OTHER EXTERIOR SLABS NOT INDICATED ON THE STRUCTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" THICK WALKS REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE REINFORCING UNLESS NOTED OTHERWISE.
9. SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/-1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260. DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%.
10. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
11. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, LIMIT THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR TO 100 FEET OR LESS. THE MAXIMUM SPACING OF CONTRACTION JOINTS SHALL BE 12-FEET FOR 4-INCH THICK SLABS AND 15-FEET FOR 6-INCH THICK SLABS.
12. THE ALTERNATE WIRES OF THE WELDED WIRE REINFORCING MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A "WEAKENED PLANE". WITHOUT CUTTING THE ALTERNATE WIRES, THE STRENGTH OF THE WIRE WILL PREVENT THE SLAB FROM CRACKING (SEPARATING) AT THE JOINT AND THE SLAB MAY BEGIN TO CRACK ELSEWHERE.
13. THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WIRE REINFORCING) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
14. IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM, SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS NOT GREATER THAN THE SIDEWALK WIDTH UNLESS DETAILED ELSEWHERE.
15. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

C&C LEGEND:

- WIND LOAD SEPARATION
- OVERHANG



C&C WALL DIAGRAM

COMPONENTS AND CLADDING WIND PRESSURES

ULTIMATE WIND PRESSURES AT GABLE

Building Length (L) = 147 ft
Least Width (B) = 60 ft
Type of Roof = Gable
Roof Slope (θ) = 4.76 deg

Mean Roof Height (h) = 20 ft
Kh(case 1) = 0.90
Base Pressure (qh) = 38.5 psf
Gcpi = +/-0.18

ROOF ULTIMATE WIND PRESSURES

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE AND SUCTION (PSF)	
		PRESSURE	SUCTION
1	10	+18.5	-72.4
	20	+17.3	-67.6
	50	+16.0	-61.3
	100	+16.0	-56.5
1'	10	+18.5	-41.6
	20	+17.3	-41.6
	50	+16.0	-41.6
	100	+16.0	-41.6
2	10	+18.5	-95.5
	20	+17.3	-89.3
	50	+16.0	-81.2
	100	+16.0	-75.1
3	10	+18.5	-130.1
	20	+17.3	-117.8
	50	+16.0	-101.6
	100	+16.0	-89.3

ROOF OVERHANG ULTIMATE WIND PRESSURES

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE AND SUCTION (PSF)	
		PRESSURE	SUCTION
2 O.H.	10	+18.5	-88.5
	20	+17.3	-80.4
	50	+16.0	-69.5
	100	+16.0	-61.4
3 O.H.	10	+18.5	-123.2
	20	+17.3	-108.9
	50	+16.0	-89.9
	100	+16.0	-75.6

0.2h = 4 ft
0.6h = 12ft

WALL ULTIMATE WIND PRESSURES

ZONE	EFFECTIVE WIND AREA, SF	WIND PRESSURE AND SUCTION (PSF)	
		PRESSURE	SUCTION
4	10	+41.6	-45.0
	20	+39.7	-43.2
	50	+37.3	-40.8
	100	+35.5	-38.9
5	10	+41.6	-55.4
	20	+39.7	-51.8
	50	+37.3	-46.9
	100	+35.5	-43.2
	500	+31.2	-34.6
	500	+31.2	-34.6

a = 6 ft

JAMIE M. GRAHAM, P.E.

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SHEET STRUCTURAL NOTES & WINDLOAD DIAGRAM

TITLE: NEW FIRE RESCUE STATION

FOR THE: TOWN OF GRAND RIDGE

GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT

DATE: AUG. 13, 2025

DRAWN BY: JMG/AMM

CHECKED BY: KMH

SHEET No.

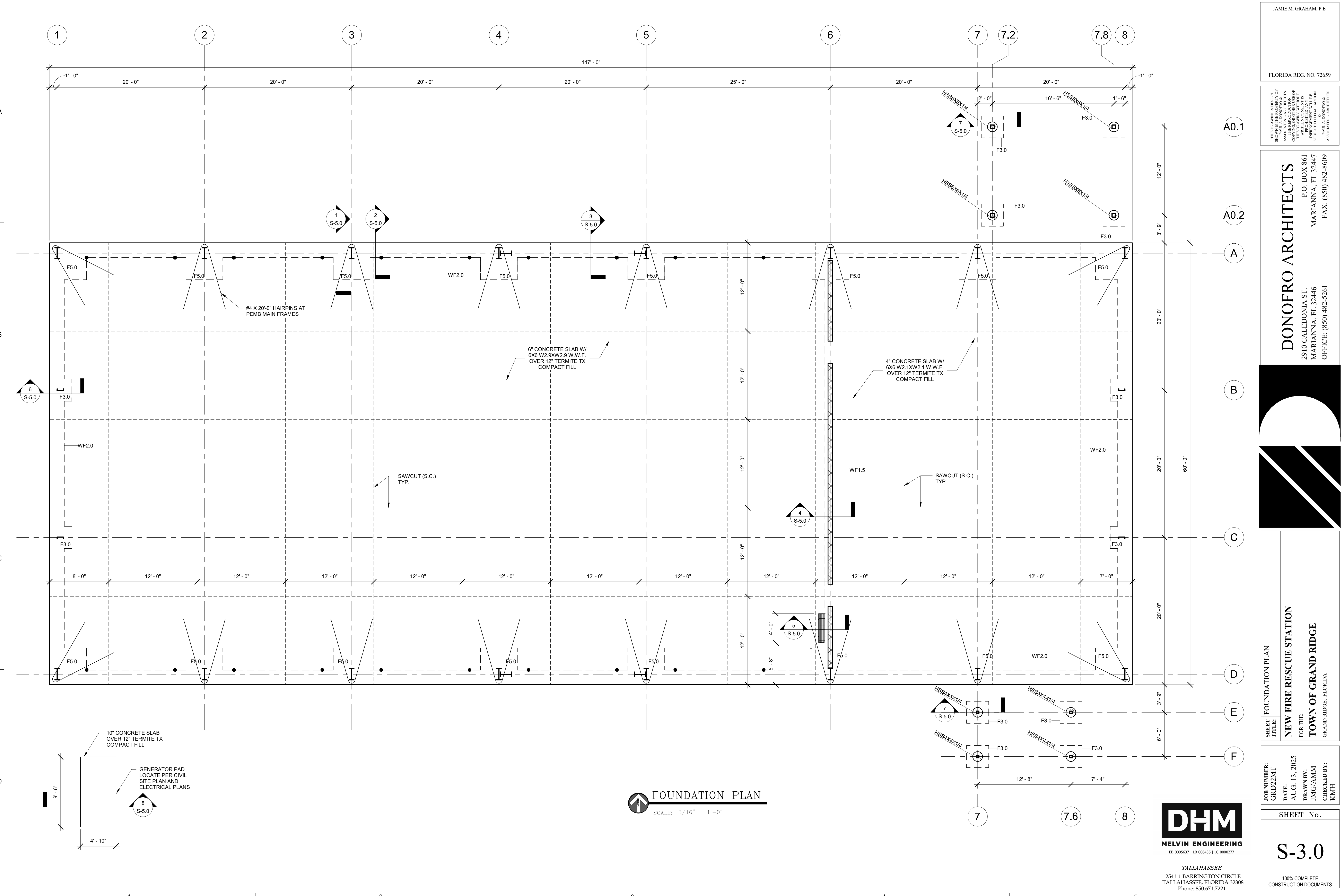
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CONSTRUCTION DOCUMENTS

DHM
MELVIN ENGINEERING

EB-0005637 | LB-006435 | LC-0000277

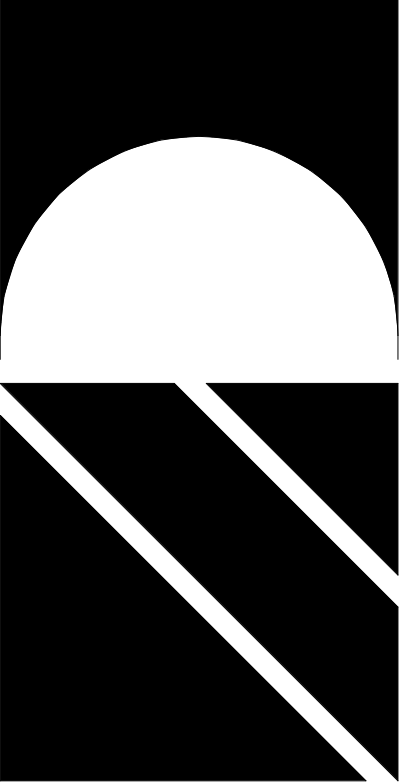
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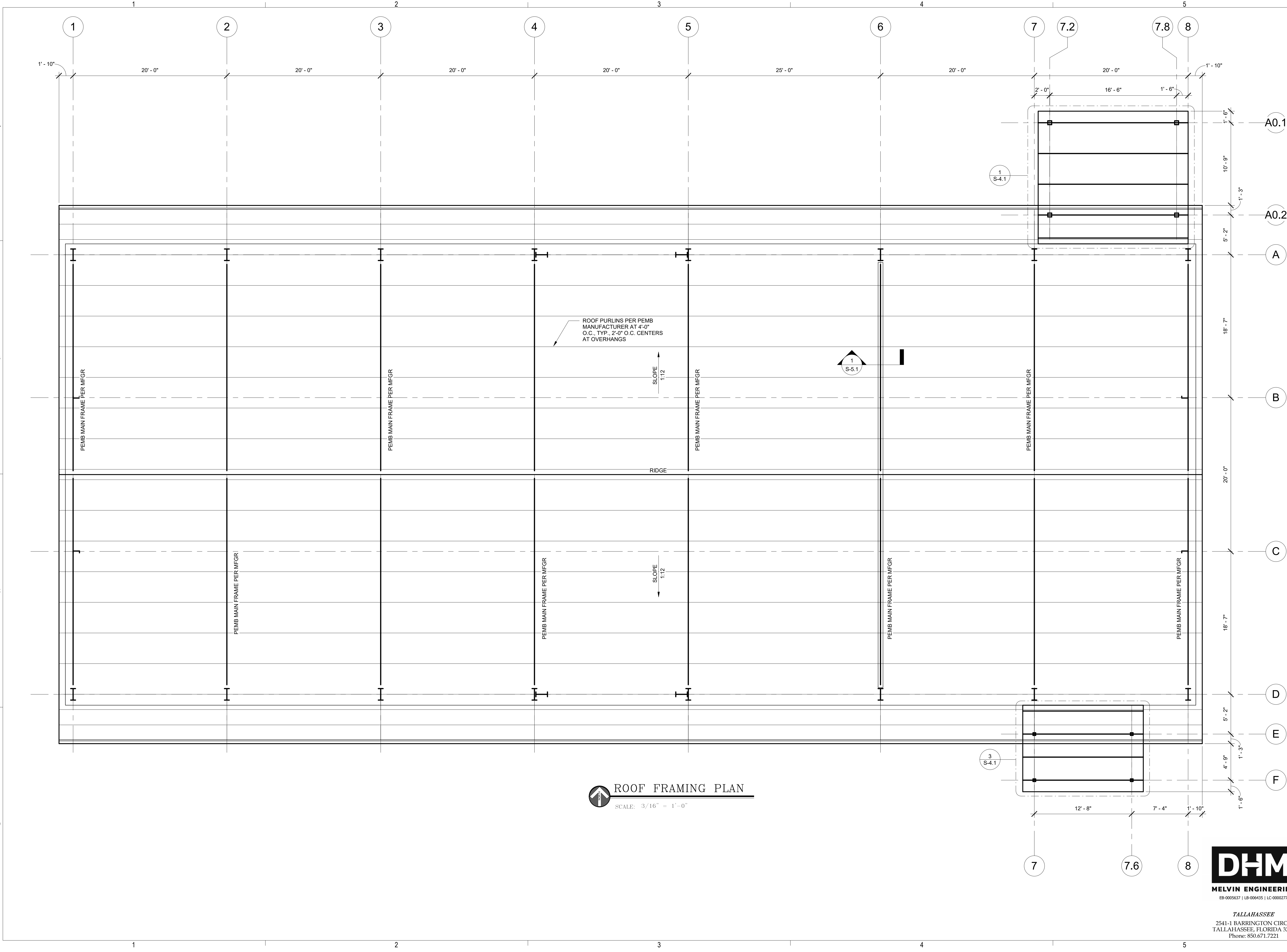
FOUNDATION PLAN
NEW FIRE RESCUE STATION
FOR THE
TOWN OF GRAND RIDGE
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT
DATE:
AUG. 13, 2025
DRAWN BY:
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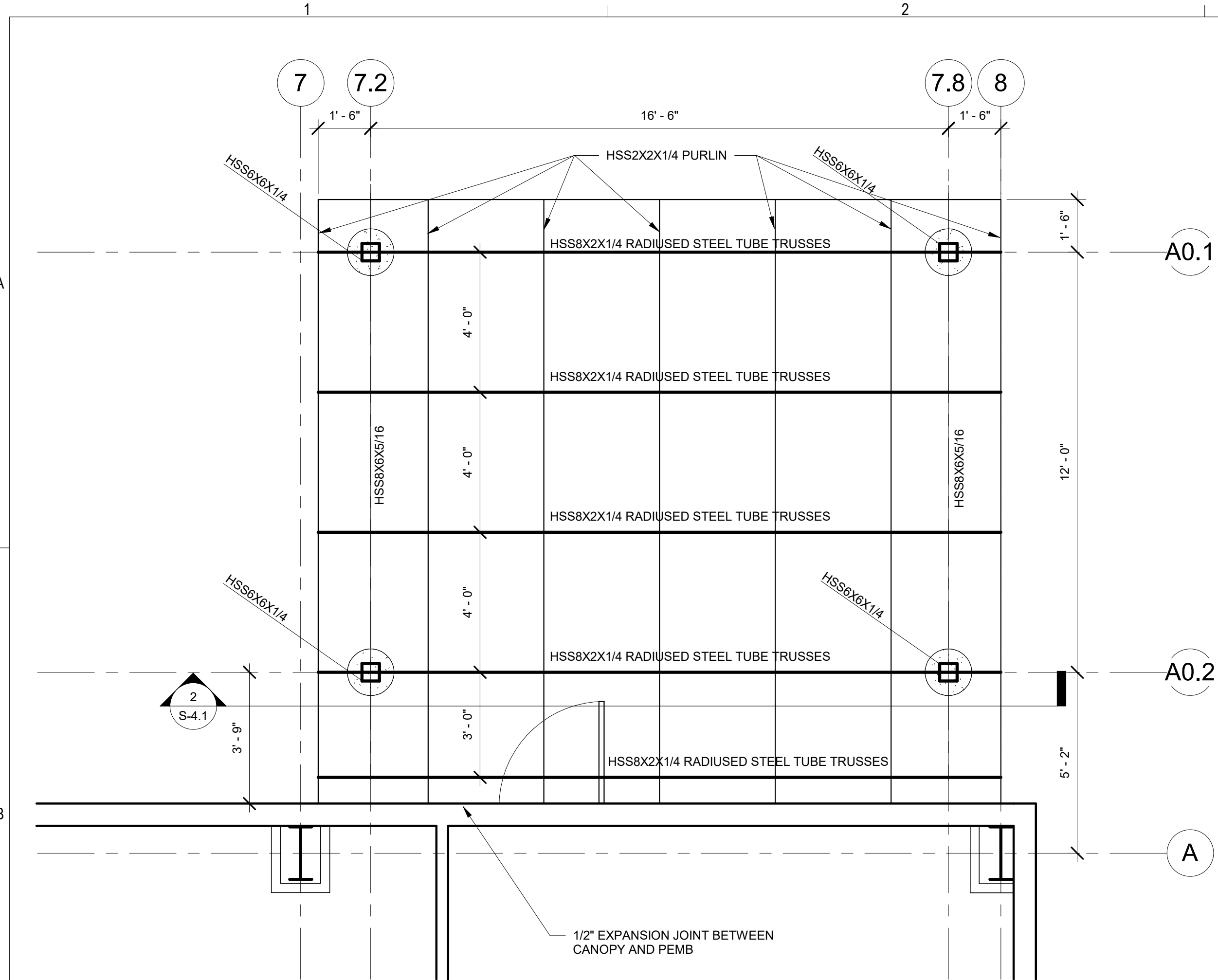
NEW FIRE RESCUE STATION
FOR THE
TOWN OF GRAND RIDGE
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT
DATE:
AUG. 13, 2025
DRAWN BY:
JMG/AMM
CHECKED BY:
KMH

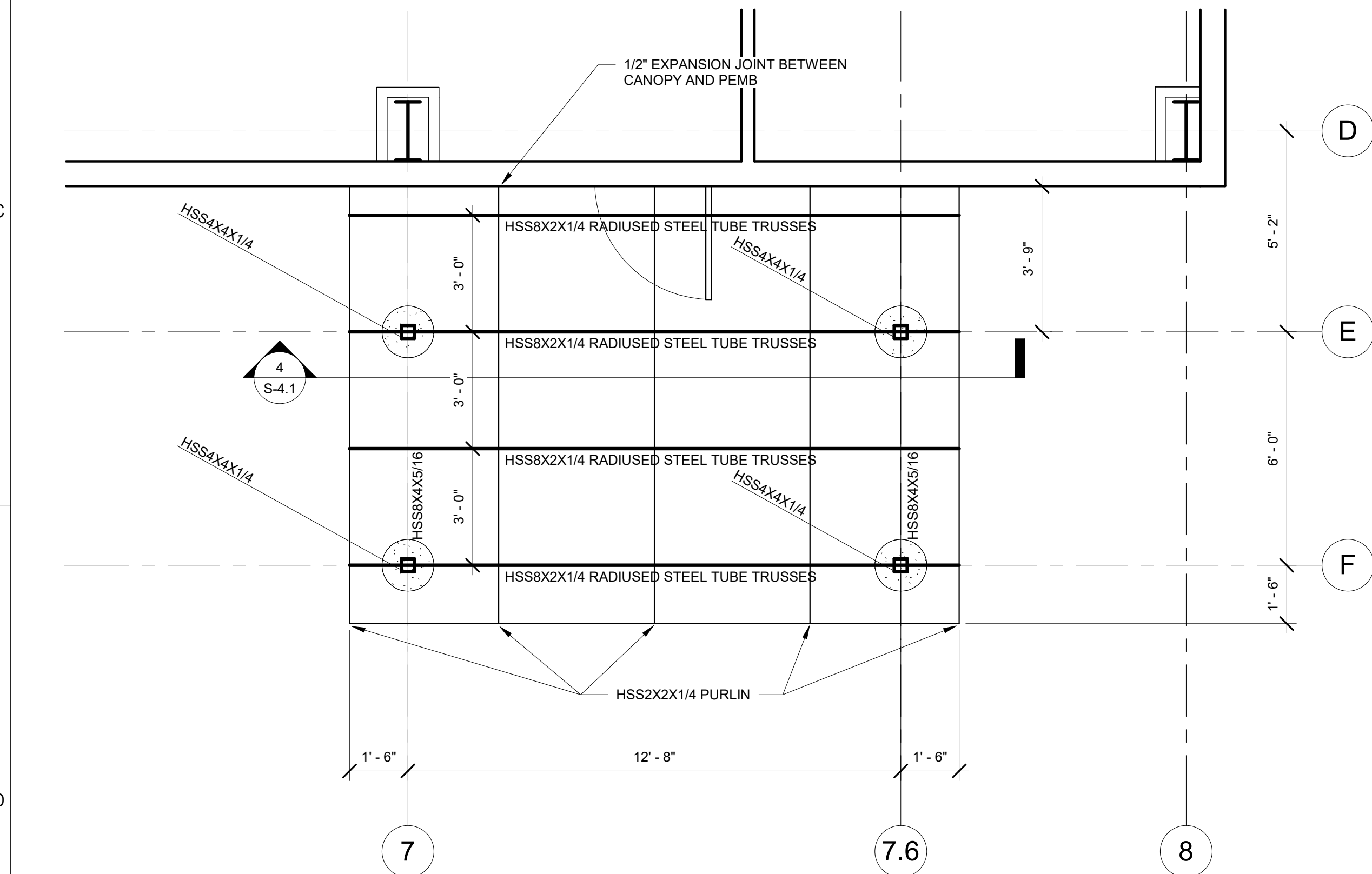
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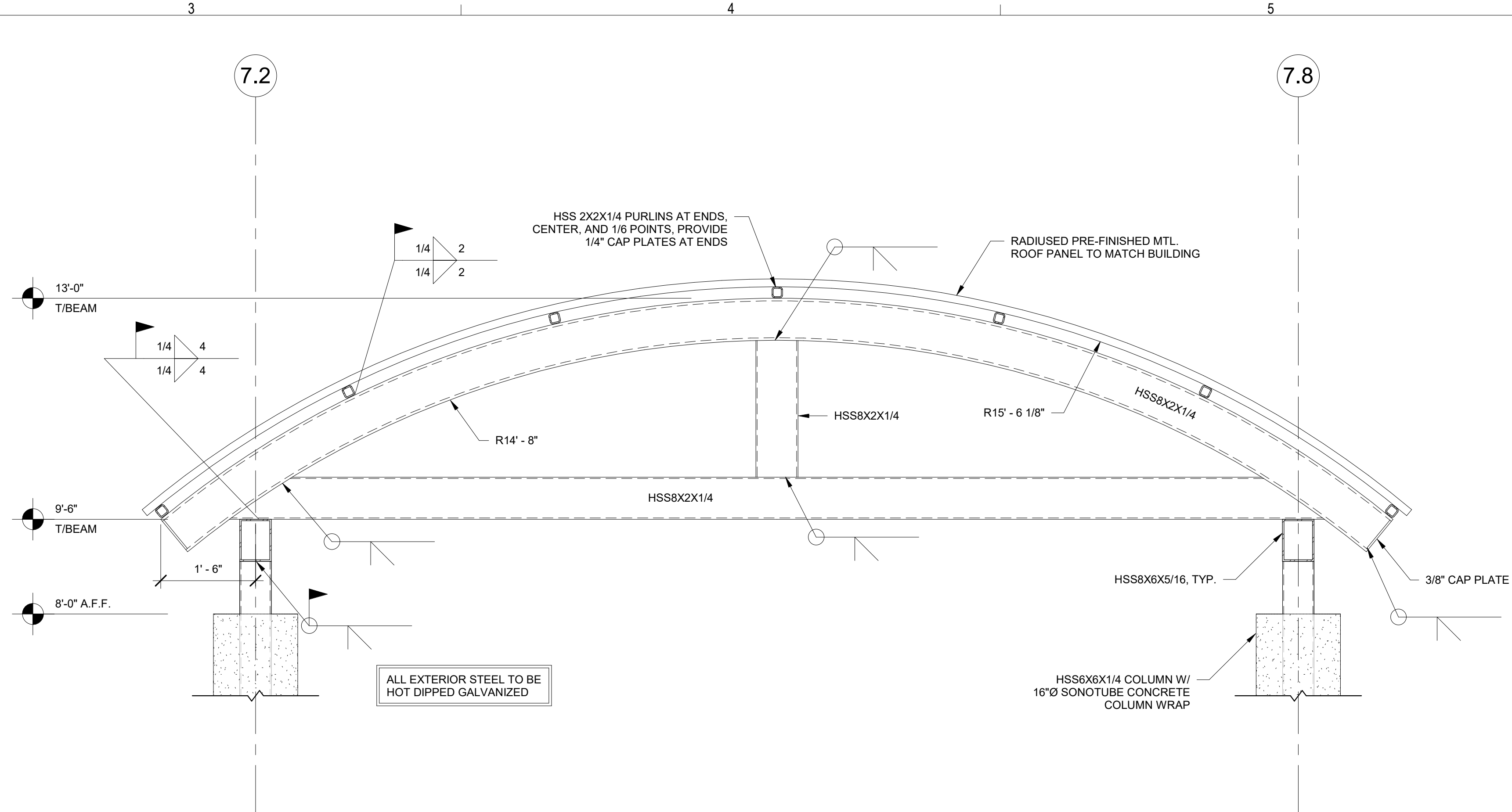
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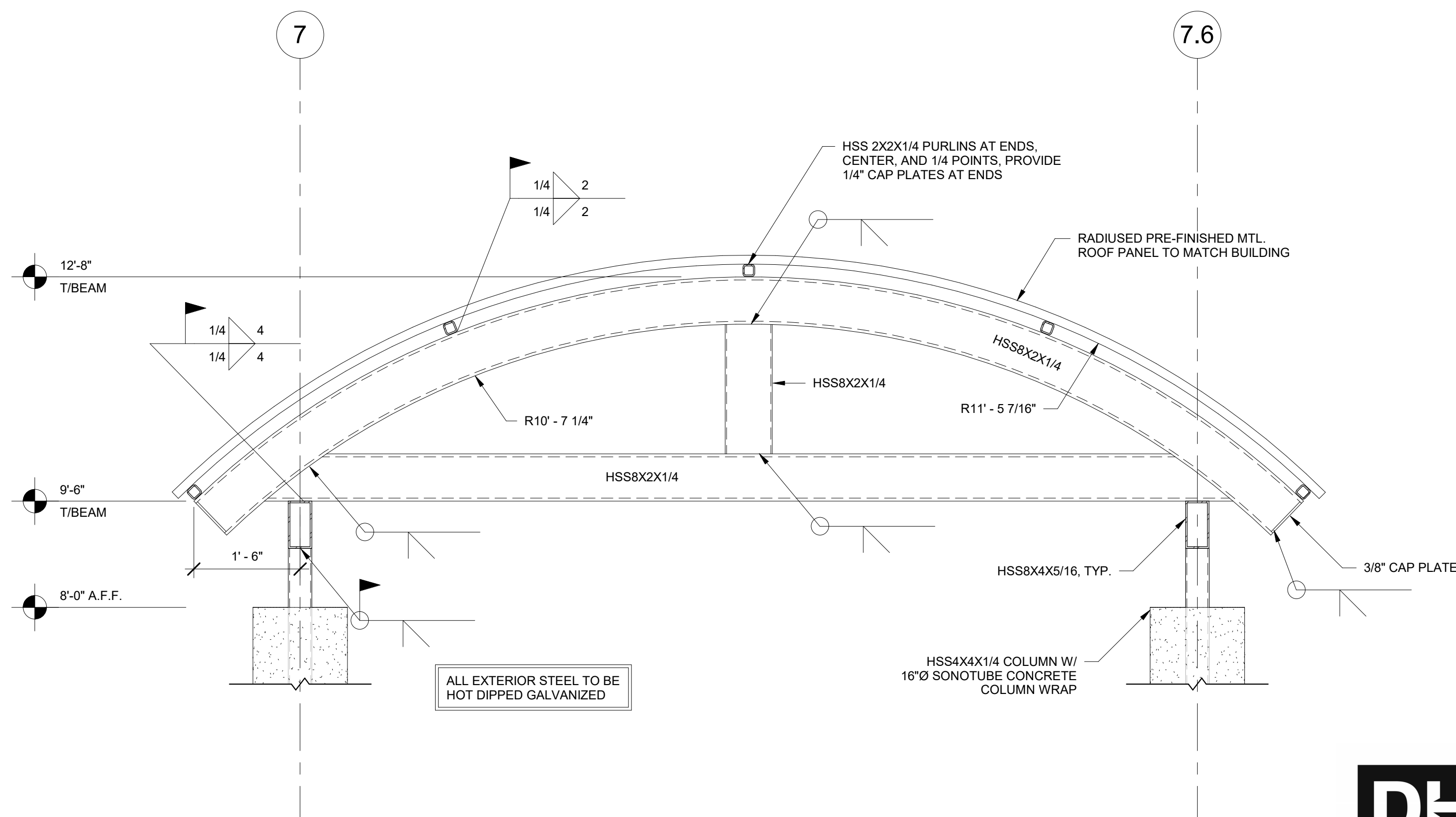
1 COVERED ENTRY CANOPY - NORTH
SCALE: 3/8" = 1'-0"



3 COVERED ENTRY CANOPY - SOUTH
SCALE: 3/8" = 1'-0"



2 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0"



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SHEET COVERED ENTRY CANOPY FRAMING PLAN AND
TITLE: FRAMING DETAILS

FOR THE:
NEW FIRE RESCUE STATION

TOWN OF GRAND RIDGE
GRAND RIDGE, FLORIDA

JOB NUMBER:
GRD22MT

DATE:
AUG. 13, 2025

DRAWN BY:
JMG/AMM

CHECKED BY:
KMH

SHEET No.

S-4.1

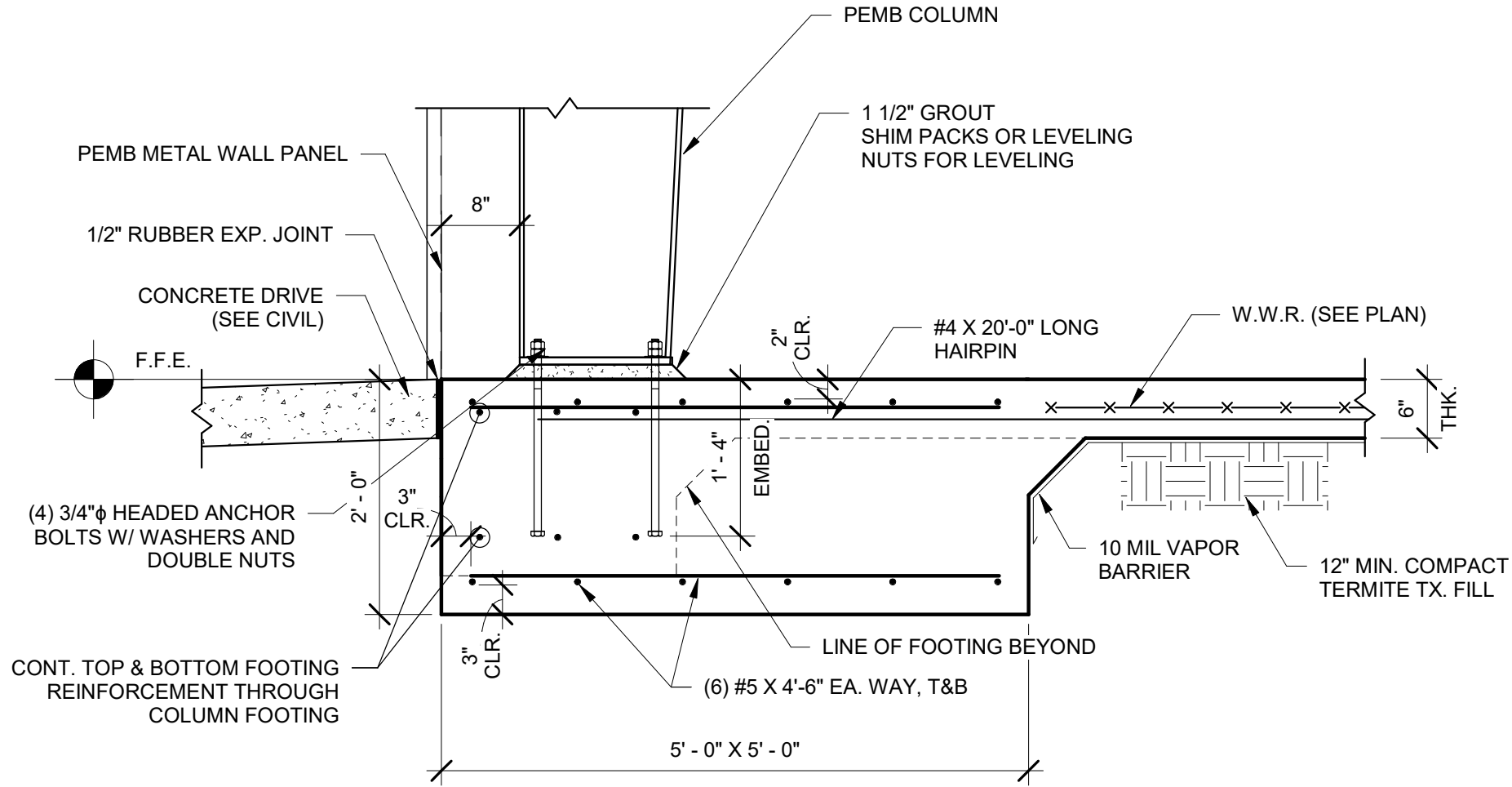
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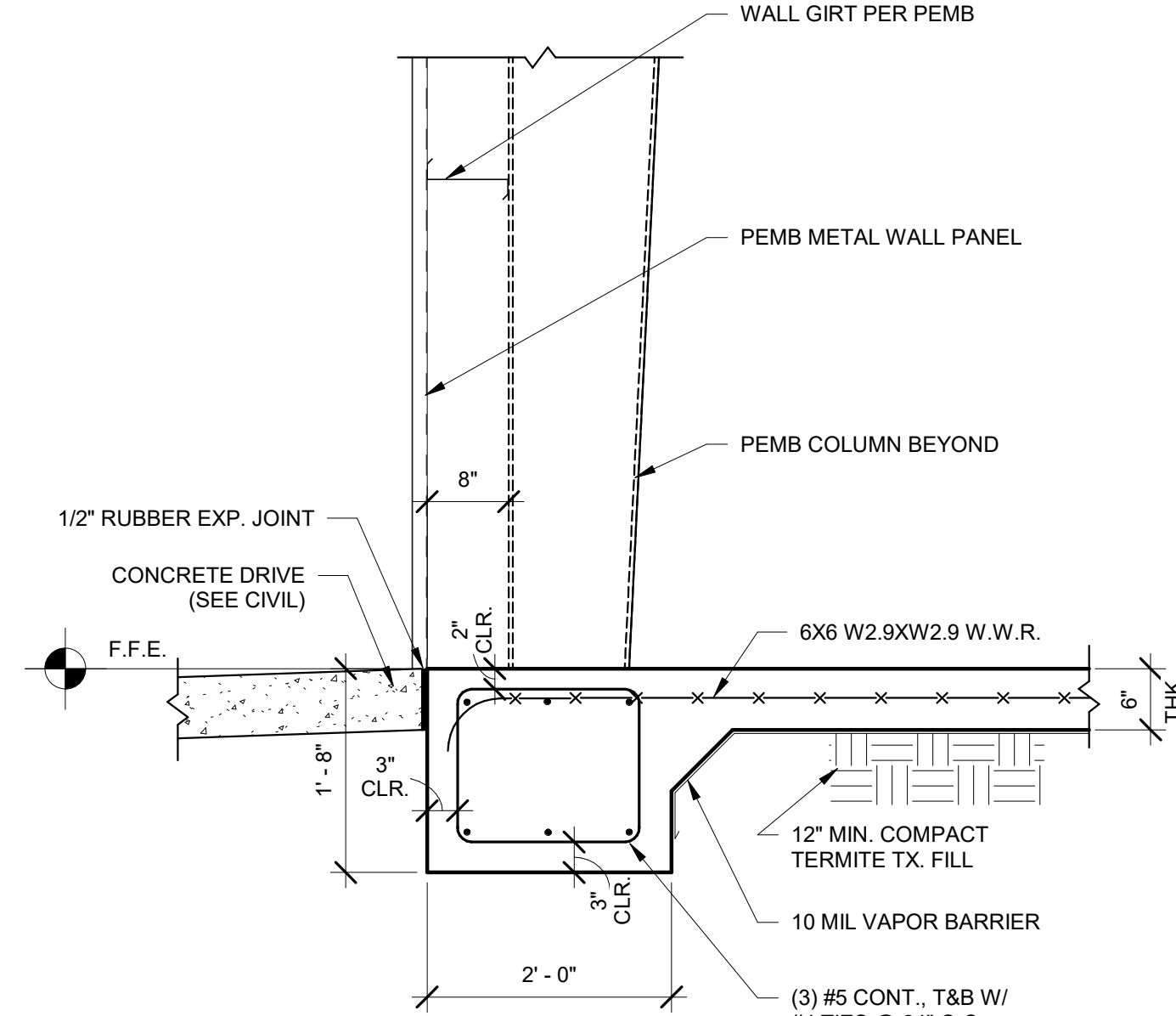
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D

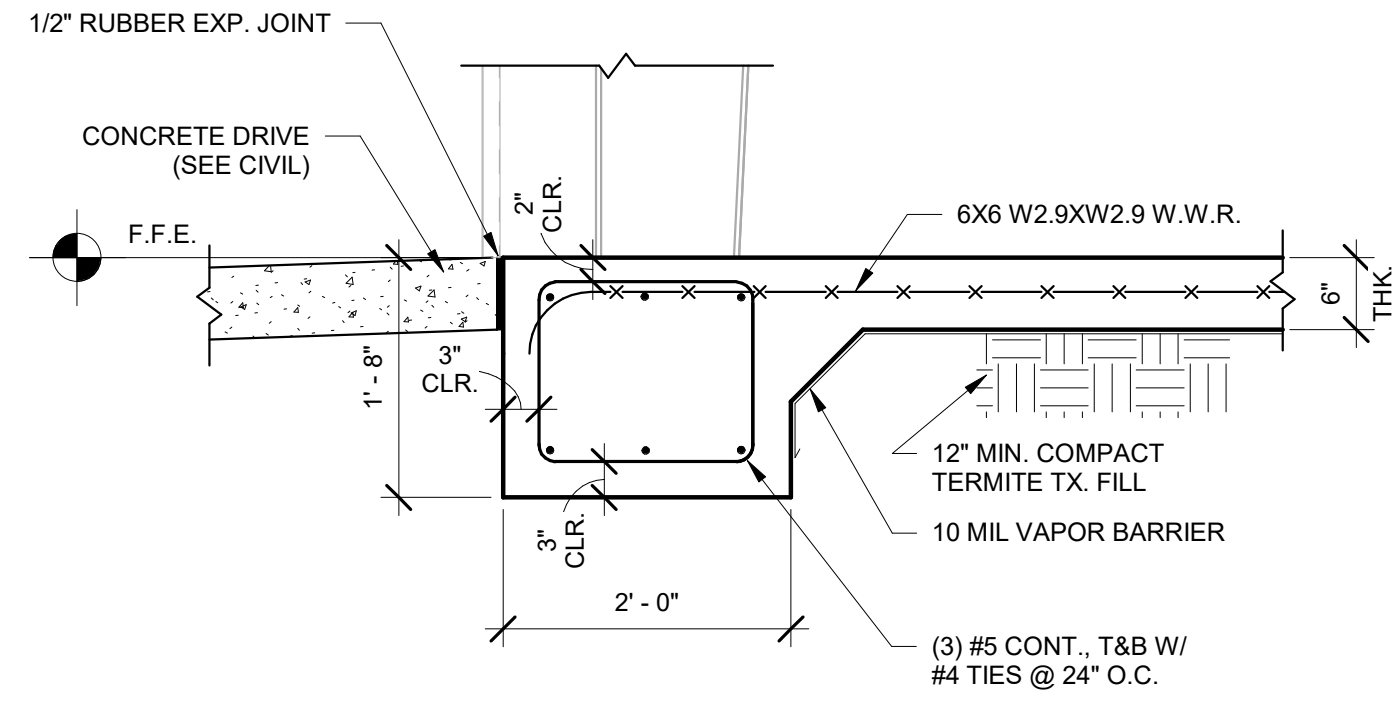


- ANCHOR BOLT NOTES:
1. HEADED ANCHOR BOLTS: ASTM F 1554 HEAVY HEX, GRADE 36, STRAIGHT
 2. NUTS: ASTM A 563 HEAVY HEX CARBON STEEL
 3. PLATE WASHERS: ASTM A36 CARBON STEEL, 2x2x1/4 W/ STD. HOLE
 4. HOT-DIP ZINC COATING, ASTM A 153, CLASS C

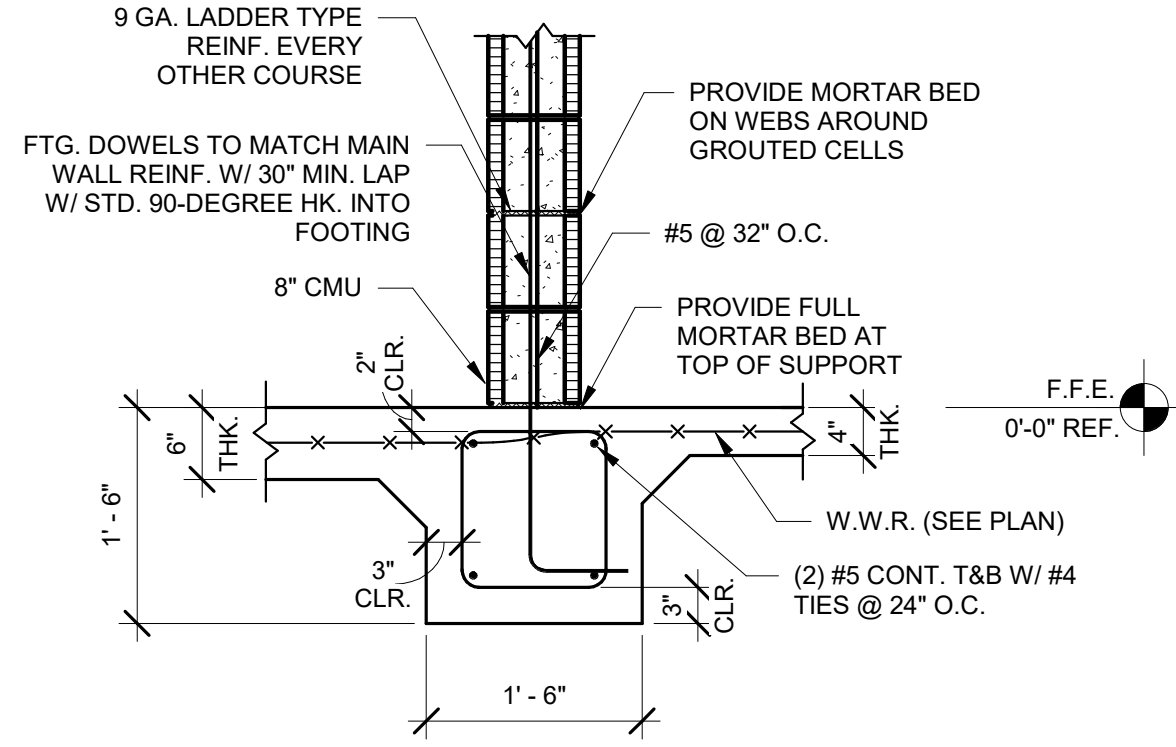
1 SECTION
SCALE: 3/4" = 1'-0"



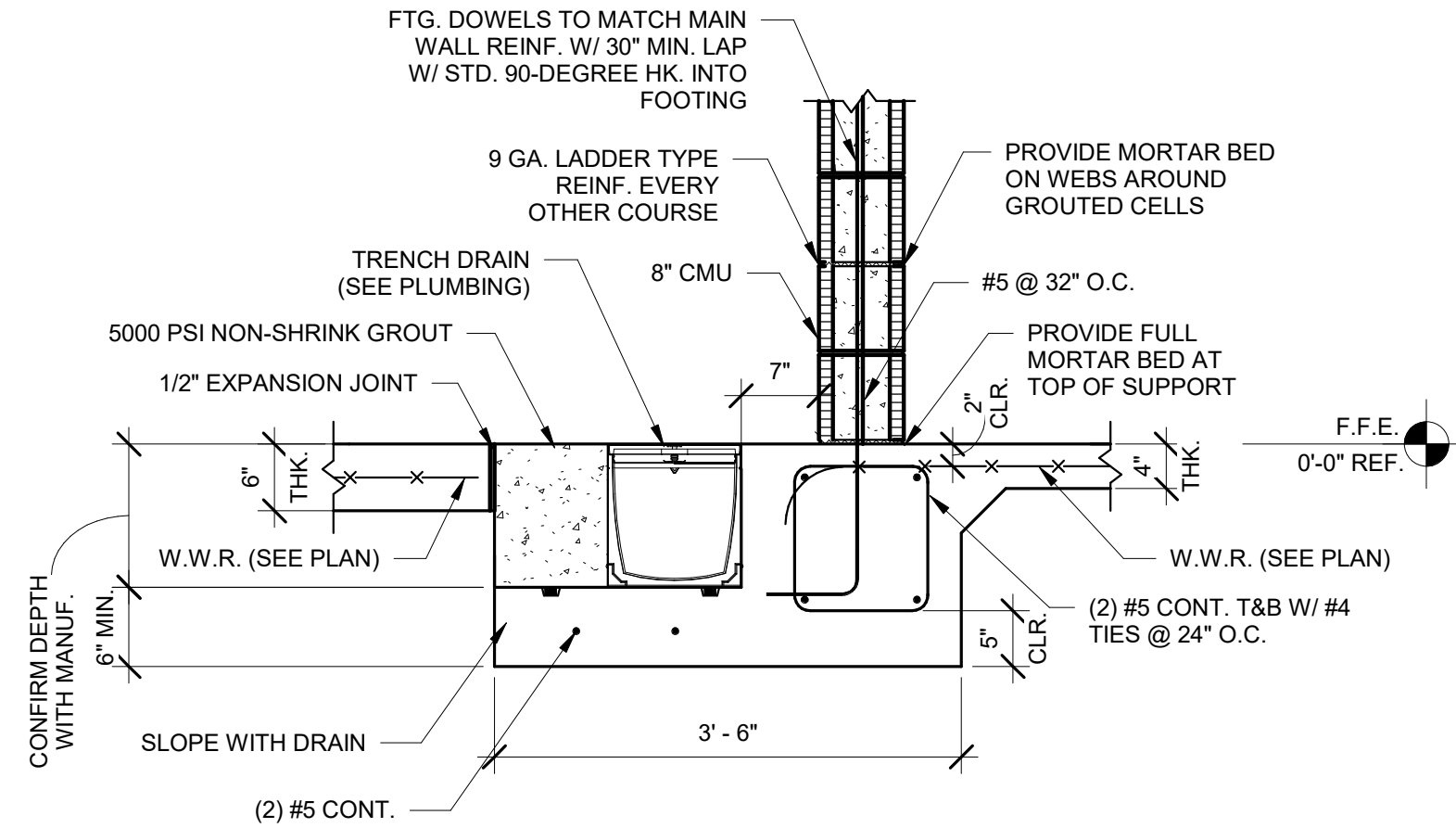
2 SECTION
SCALE: 3/4" = 1'-0"



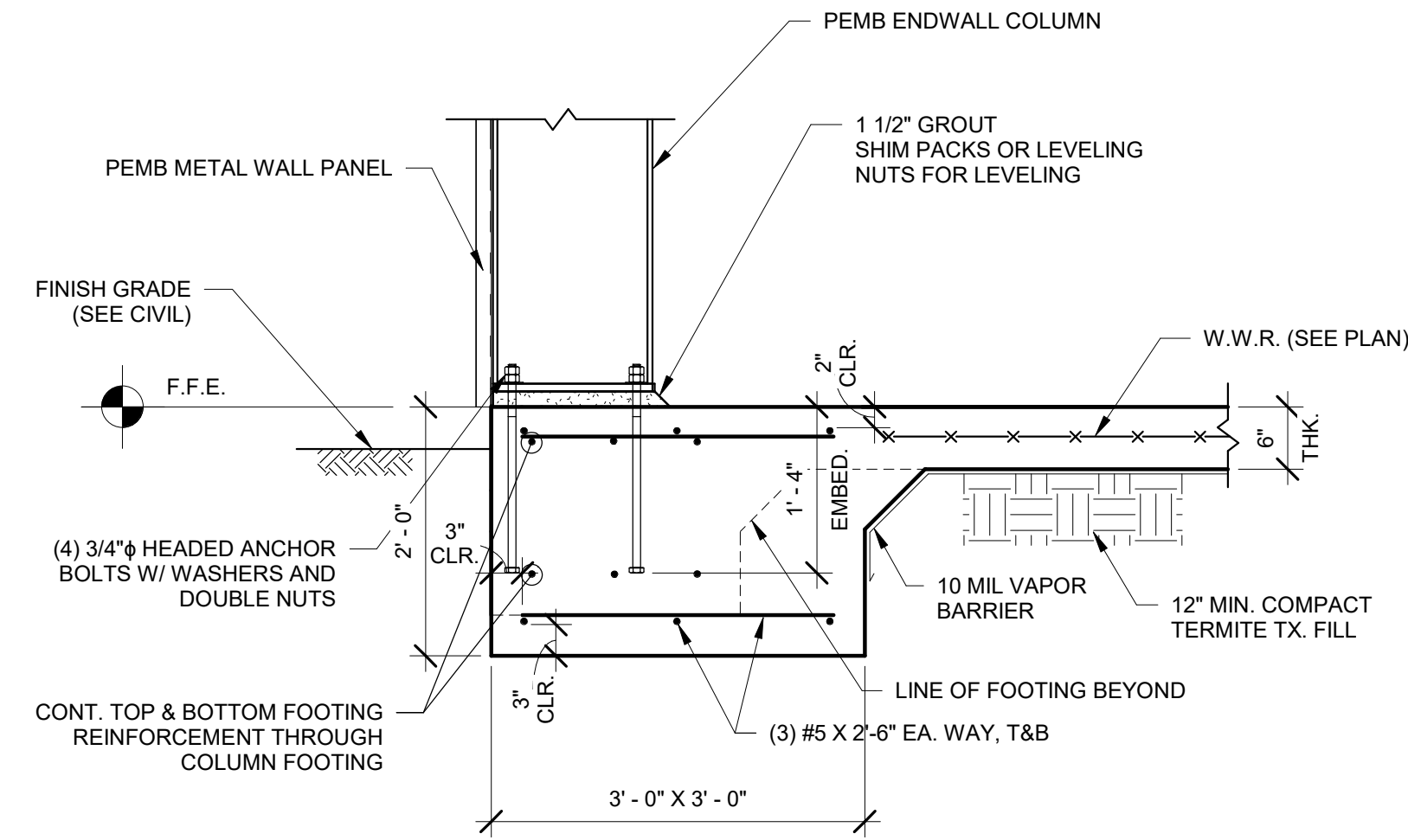
3 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0"

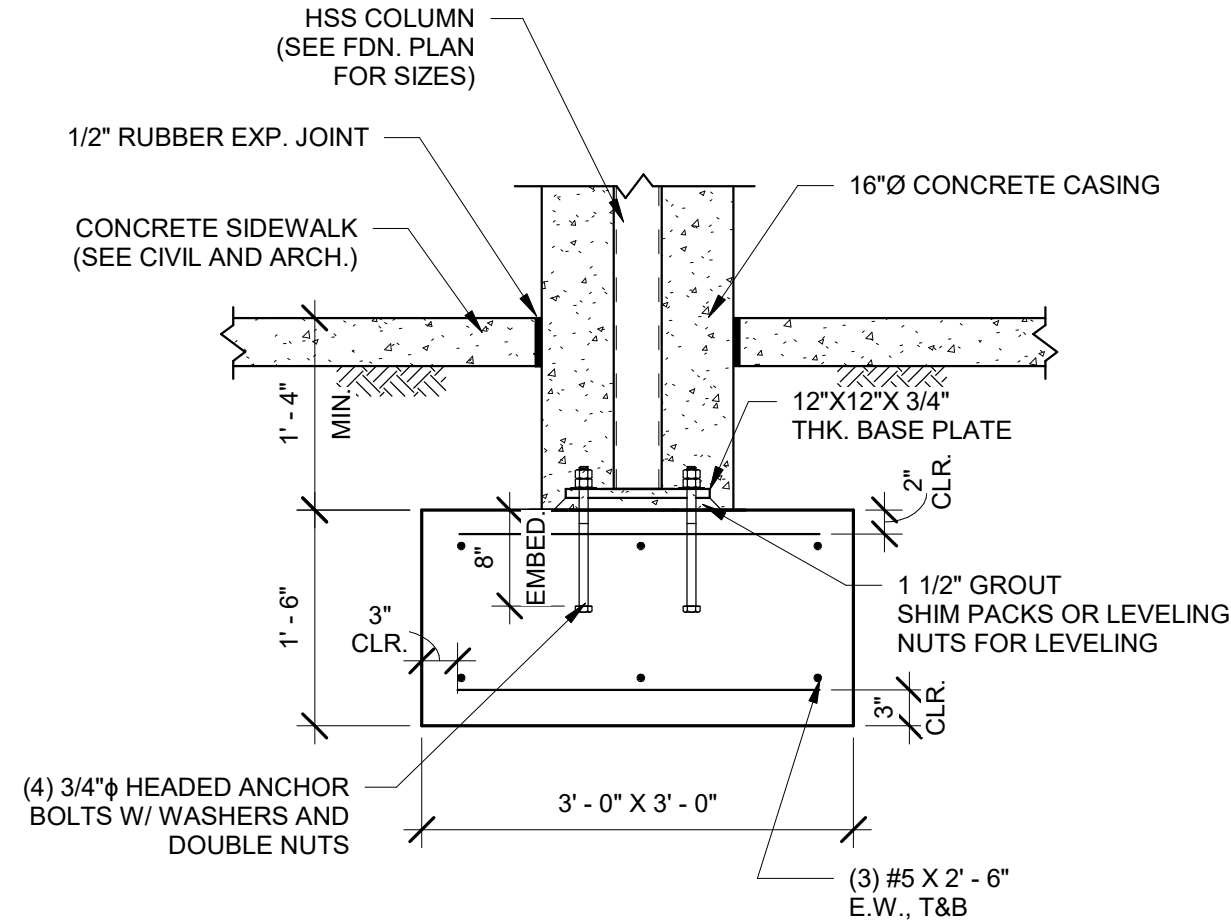


5 SECTION
SCALE: 3/4" = 1'-0"

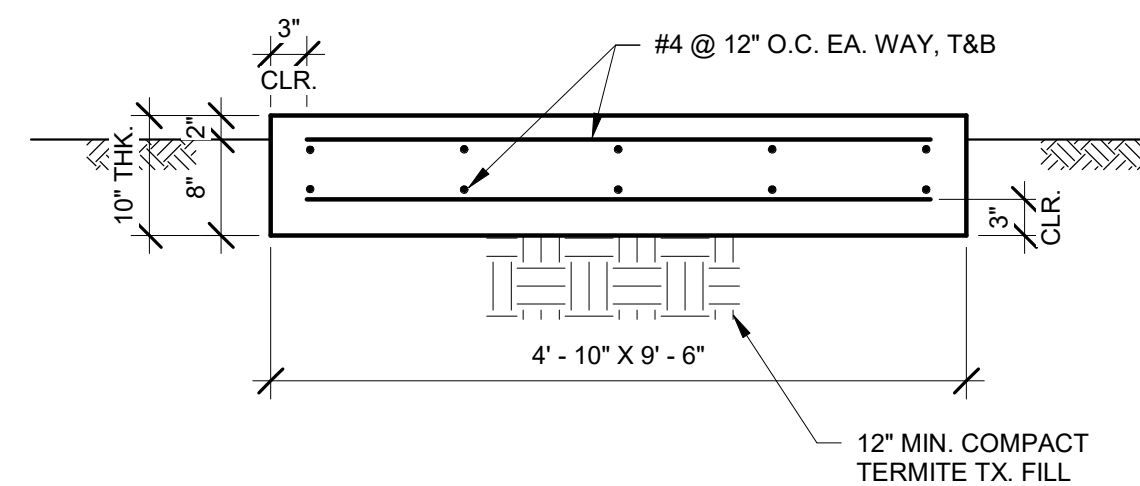


- ANCHOR BOLT NOTES:
1. HEADED ANCHOR BOLTS: ASTM F 1554 HEAVY HEX, GRADE 36, STRAIGHT
 2. NUTS: ASTM A 563 HEAVY HEX CARBON STEEL
 3. PLATE WASHERS: ASTM A36 CARBON STEEL, 2x2x1/4 W/ STD. HOLE
 4. HOT-DIP ZINC COATING, ASTM A 153, CLASS C

6 SECTION
SCALE: 3/4" = 1'-0"



7 SECTION
SCALE: 3/4" = 1'-0"



8 SECTION
SCALE: 3/4" = 1'-0"

JAMIE M. GRAHAM, P.E.

FLORIDA REG. NO. 72659

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FOUNDATION DETAILS

NEW FIRE RESCUE STATION

FOR THE TOWN OF GRAND RIDGE

GRAND RIDGE, FLORIDA

JOB NUMBER: GRD22MT

DATE: AUG. 13, 2025

DRAWN BY: JMG/AMM

CHECKED BY: KMH

SHEET No.

S-5.0

100% COMPLETE
CONSTRUCTION DOCUMENTS

DHM
MELVIN ENGINEERING

EB-0005637 | LB-006435 | LC-0000277

TALLAHASSEE
2541-1 BARRINGTON CIRCLE
TALLAHASSEE, FLORIDA 32308
Phone: 850.671.7221



CONCRETE BAR TENSION LAP SPLICE (CLASS B) SCHEDULE						
BAR	f _c = 3,000 PSI		f _c = 4,000 PSI		f _c = 5,000 PSI	
	TOP BARS	OTHERS	TOP BARS	OTHERS	TOP BARS	OTHERS
#3	28"	22"	25"	19"	22"	17"
#4	38"	29"	33"	25"	29"	23"
#5	47"	36"	41"	31"	36"	28"
#6	56"	43"	49"	37"	44"	34"
#7	81"	63"	71"	54"	63"	49"
#8	93"	72"	81"	62"	72"	56"
#9	105"	81"	91"	70"	81"	63"
#10	116"	89"	101"	78"	90"	69"



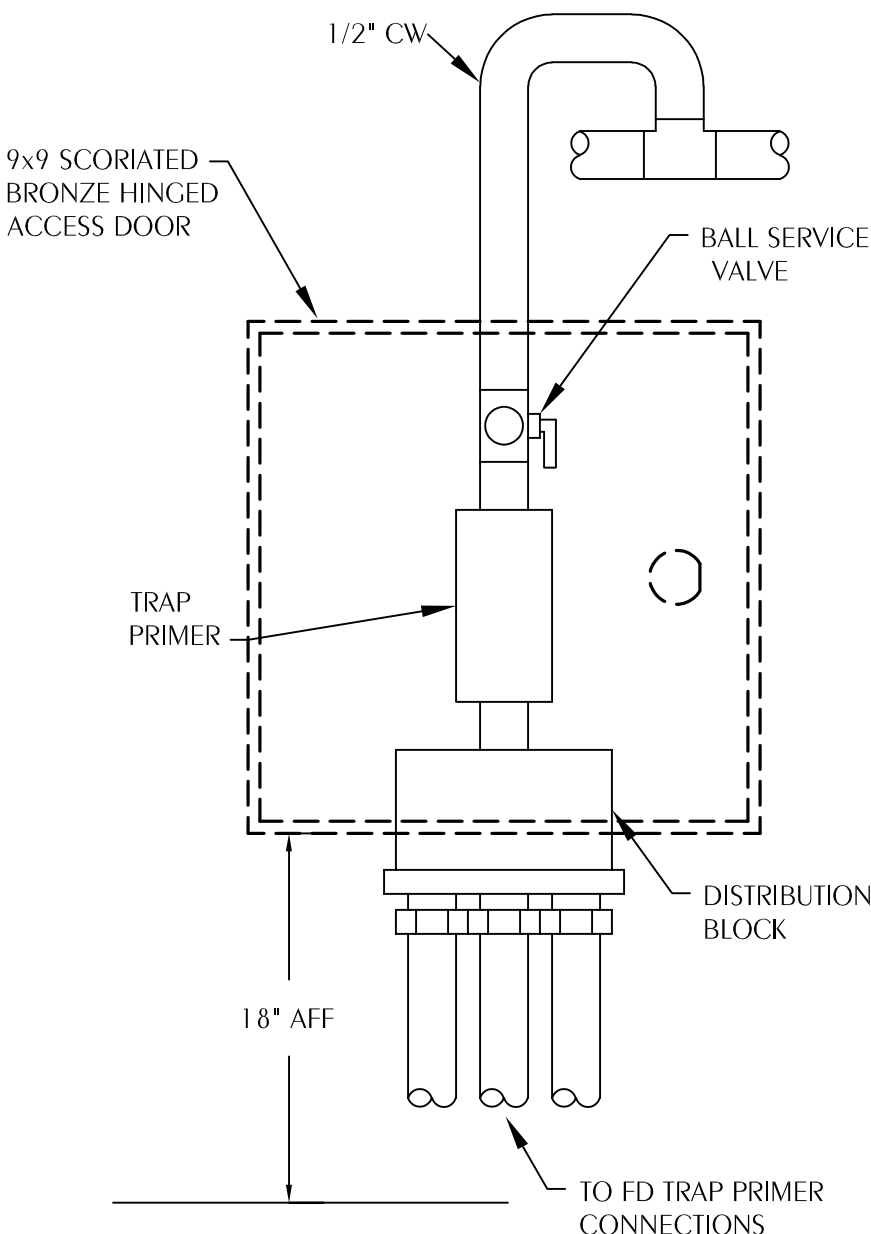
LEGEND

	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
	A	COMPRESSED AIR
	G	GAS
	CV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COTG	CLEANOUT TO GRADE
	COAC	CLEANOUT ABOVE CEILING
		UNION
	VTR	VENT THRU ROOF
		SHEET NOTE
		POINT OF CONNECTION TO EXISTING

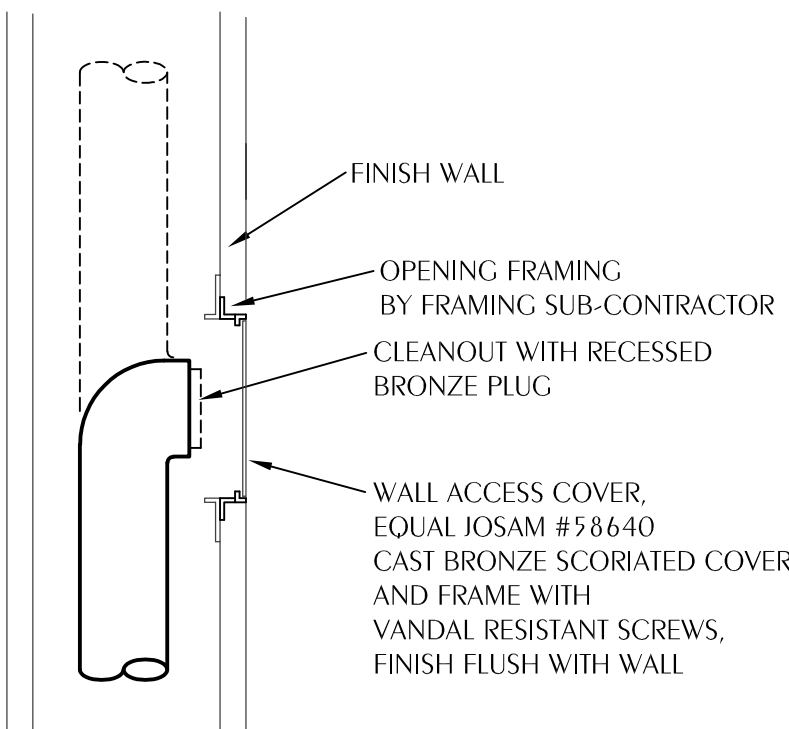
SH	SHOWER
MR	MOP RECEPTOR
UR	URINAL
WC	WATER CLOSET
UB	WALL MOUNTED UTILITY BOX
IWH	INSTANTANEOUS ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
L	LAVATORY
WH	WALL HYDRANT
HB	HOSE BIBB
KW	KILOWATT
AD	AIR DROP
TP	AUTOMATIC TRAP PRIMER
WHA	TYPE "A" WATER HAMMER ARRESTER
WHB	TYPE "B" WATER HAMMER ARRESTER
WHC	TYPE "C" WATER HAMMER ARRESTER
HR	HOSE REEL
A	AIR
G	GAS
AC	AIR COMPRESSOR
TD	TRENCH DRAIN
DT	TROUGH DRAIN
COTS	CLEANOUT TO SIDEWALK
OI	OIL INTERCEPTOR

MARK	FIXTURE	PIPE SIZES-INCHES		
		CW	HW	W
WC-1	WATER CLOSET	1	-	4
L-1	LAVATORY	3/8	3/8	1-1/4
SK-1	DUAL COMPARTMENT SINK	3/8	3/8	1-1/2
MV-1	WATER MIXING VALVE	1/2	1/2	-
SS-1	SERVICE SINK	1/2	1/2	3
SH-1	SHOWER	1/2	1/2	2
EWH-1	ELECTRIC WATER HEATER	1/2	1/2	-
CP-1	CIRCULATOR PUMP(INLINE)	-	3/4 FLANGE	-
UB-1	RECESSED UTILITY WALL BOX (ICE MAKER HOOK-UP)	3/8	-	-
FD	FLOOR DRAIN	-	-	3
TP-1	TRAP PRIMER	-	-	-
HB	HOSE BIBB	3/4	-	-
DT-1	TROUGH DRAIN	-	-	4

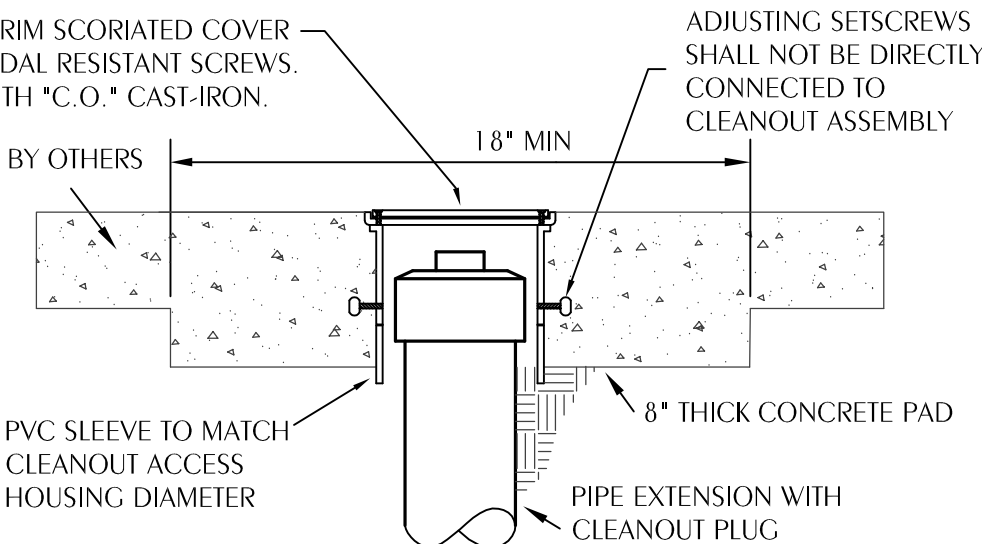
- WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
- SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
- PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.



3 TRAP PRIMER DETAIL
P.O.1 SCALE: NONE



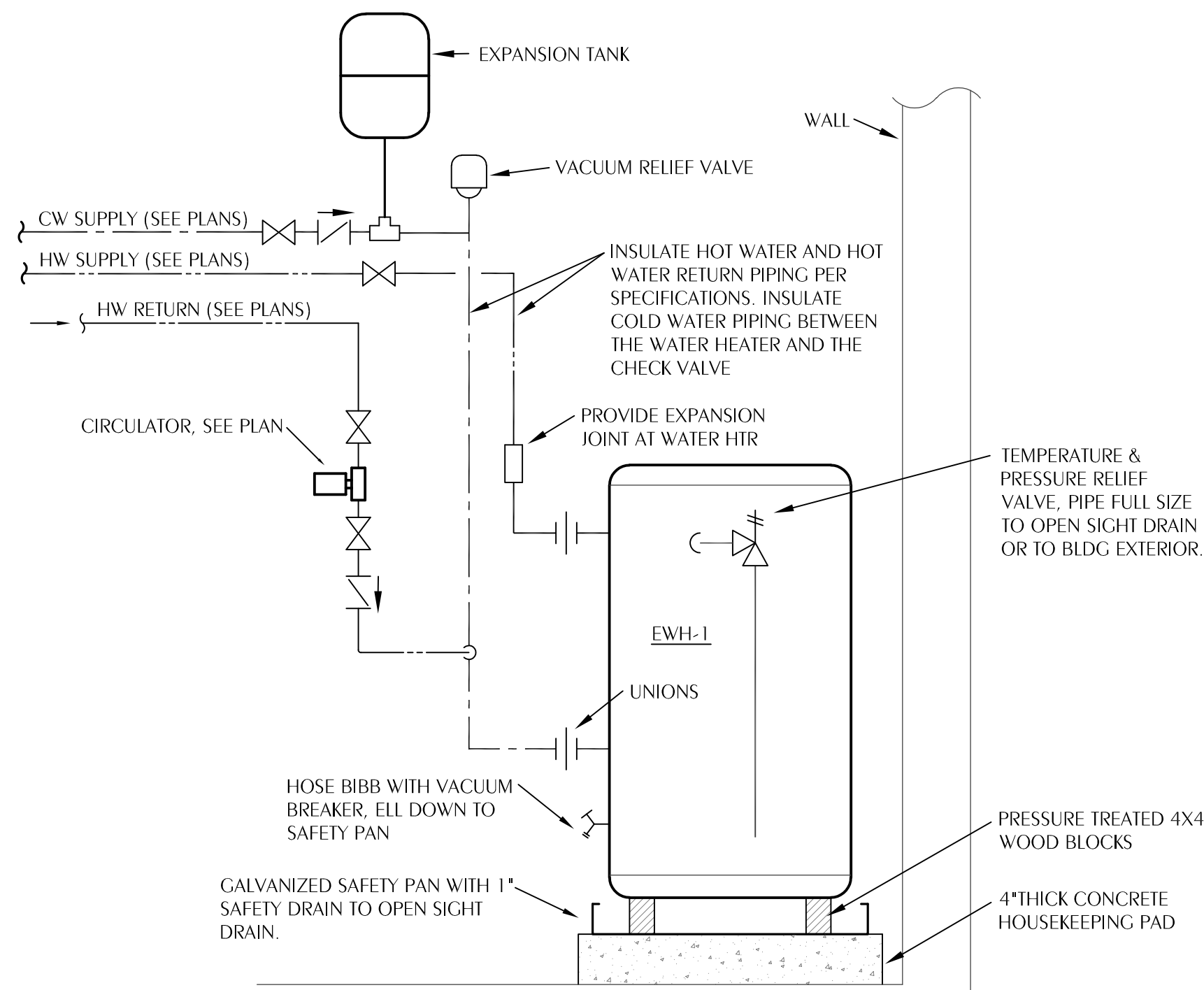
4 CLEANOUT TO WALL
P.O.1 SCALE: NONE



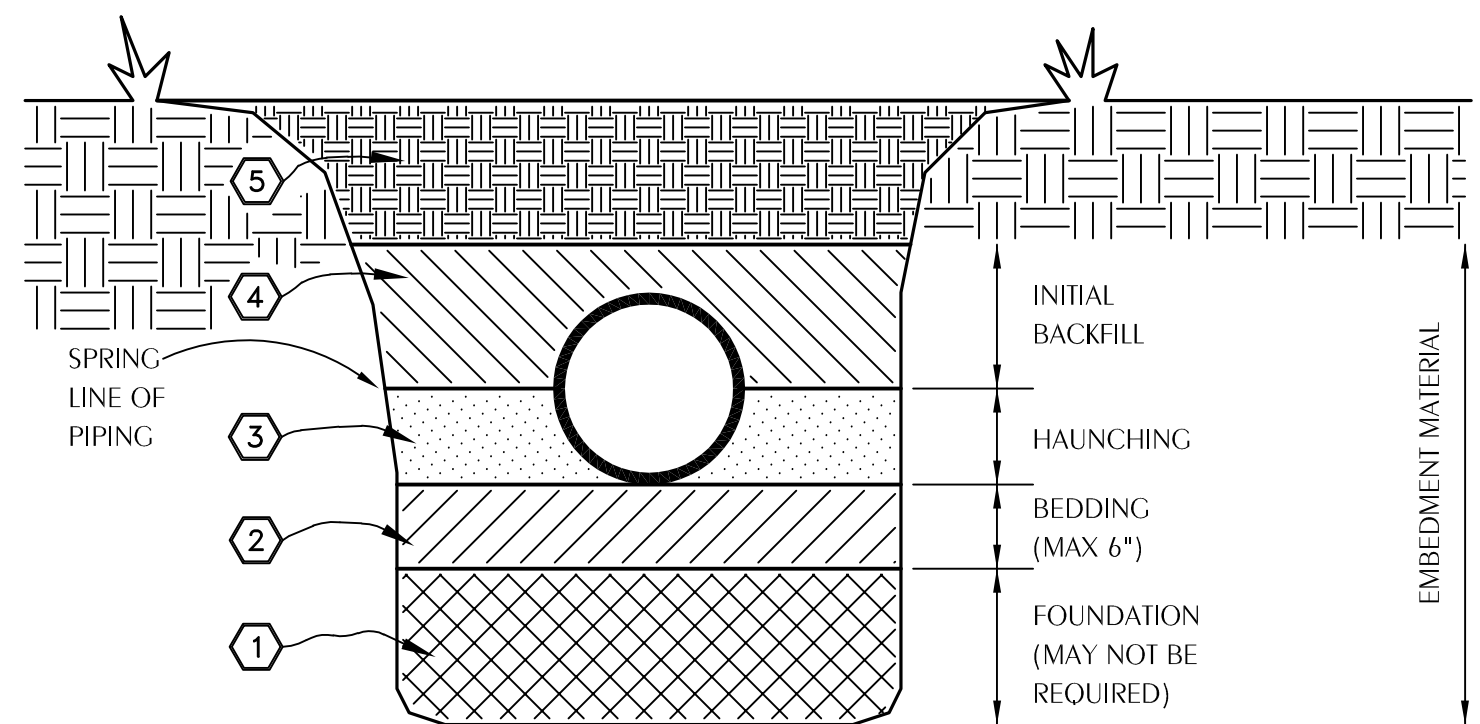
5 CLEANOUT TO SIDEWALK
P.O.1 SCALE: NONE

PLUMBING GENERAL NOTES

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
- FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
- ALL PIPING PASSING THROUGH WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
- ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS.
- ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
- SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
- COORDINATE LOCATION OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT WITH HVAC EQUIPMENT SHOP DRAWINGS.
- 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.
- PRIOR TO SUBSTANTIAL COMPLETION OF NEW 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.
- 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.
- ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
- 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.
- ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
- CONTRACTOR SHALL DEVELOP COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.



1 TYPICAL WATER HEATER PIPING DIAGRAM
P.O.1 SCALE: NONE



- EMBEDMENT MATERIALS
- CLASS I: ANCUALAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SIAG, 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 CW, 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.

2 EXCAVATION AND BACKFILL DETAIL
P.O.1 SCALE: NONE



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SHEET PLUMBING LEGEND, SCHEDULE, TITLE, NOTES, AND DETAILS
NEW FIRE STATION
FOR THE
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12
DATE: AUG 13, 2025
DRAWN BY: JDD
CHECKED BY: KAJ

SHEET No.
P-0.1

PLUMBING SPECIFICATIONS

WC-1 WATER CLOSET, FLOOR-MOUNT (ADULT HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES, HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET VALVE SEAT CLOSET BOLT/WAX RING KIT

ZURN Z5665BWL
ZURN Z6000PL-HET
ZURN Z5955S-EL-5TS
ZURN Z5972-COMB

L-1 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", 8" ON CENTERS, 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 CHROME PLATED CAST BRASS WATER FAUCET WITH WRIST BLADE HANDLES, WITH 0.5 GPM AERATOR. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED 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 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. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

LAVATORY FAUCET SUPPLY W/STOP P-TRAP STRAINER/TAIPIECE INSULATION KIT CARRIER BASE ANCHORAGE MIXING VALVE

ZURN Z5348
ZURN Z-81104-XL-3M
ZURN Z8800LRK-PC
ZURN Z8700-PC
ZURN Z8746
ZURN Z8946-3-NT
ZURN Z-1231
B-LINE ANCHORS AWA-50-375
MV-1

SK-1 DOUBLE COMPARTMENT STAINLESS STEEL SINK

33" X 22" X 8-1/8" DEEP (BOWL IS 13-1/2X16X7-3/4), 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 WITH STRAIGHT LEVER HANDLES, WATER SAVING AERATOR, HOSE AND SPRAY, 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 ACCOMMODATE FITTING INSTALLATION ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

SINK FAUCET STRAINER WASTE SUPPLIES P-TRAP MIXING VALVE

ELKAY L2-3222
ZURN Z-871 C1-4HS
ELKAY LK-35
ELKAY LK-353
ZURN Z-8802-LK
ZURN Z-8702 PC
WATTS LFUSG-B

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.

SHOWER DRAIN

ZURN Z-7301-SS-MT-DV-2P-HW
ZURN ZN-415 2" WITH 5" B

MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRASS BODY, LEAD FREE, LIMITS HOT WATER BETWEEN 80°F & 120°F, DUAL CHECK VALVES, 0.25GPM MIN. FLOW, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE

WATTS LFUSG-B

UB-1 RECESSED UTILITY BOX (REFR. SPACE):

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' OF 1/4" O.D. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX

CLUY GRAY BIM 875

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 95°F AND 115°F. 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 110°F.

CIRCULATOR TIMER AQUASTAT CIRCUIT SETTER RECIRCULATION VALVE (TVC)

TACO 006E3
TACO 265-3
TACO 565-2
XYLEM CB-1/2S LF
CIRCUIT SOLVER CS-1/2-110,

EW-H-1 ELECTRIC WATER HEATER:

ASHRAE STANDARD 90, GLASS LINED TANK SUITABLE FOR 150 PSI WORKING PRESSURE, 300-PSI TEST. FINISH OF DURABLE HIGH GLOSS BAKED ENAMEL. BLANKET GLASS FIBER INSULATION OVER ENTIRE TANK. CONTROL CIRCUIT TRANSFORMER AND MANUAL RESET HIGH TEMPERATURE LIMIT CONTROL. ASME PRESSURE AND TEMPERATURE RELIEF VALVE. WATER HEATER SHALL BE ACCEPTABLE FOR COMMERCIAL APPLICATION BY MANUFACTURER. PROVIDE 3 FULL YEAR WARRANTY, SNAP ACTION AUTOMATIC IMMERSION MOUNTED THERMOSTATS, IMMERSION TYPE HEATING ELEMENTS AND MAGNESIUM ANODE ROD. PROVIDE UNIT MOUNTED DISCONNECT SWITCH. PROVIDE INLET AND OUTLET SHUT-OFF VALVES, VACUUM RELIEF VALVE ON INLET WATER SUPPLY. PROVIDE GALVANIZED STEEL DRIP PAN. PROVIDE PRE-CHARGED EXPANSION TANK. OUTER STEEL SHELL (FLEXIBLE DIAPHRAGM TYPE), ON COLD WATER INLET SIDE OF WATER HEATER FOR THERMAL EXPANSION CONTROL. TANK VOLUME IN GALLONS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE WATER HEATER SIZE IN GALLONS. 50 GAL, 9 KW, 240V/1 PHASE. TWO 4.5 KW ELEMENTS WIRED FOR SIMULTANEOUS OPERATION.

WATER HEATER VACUUM RELIEF EXPANSION TANK

A. O. SMITH DEN-40
WATTS 36A
AMTROL "THERM-X-TROL"

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

SS-1 SERVICE SINK (WALL MOUNT):

22-1/4" X 18-1/4" CAST IRON, ACID RESISTANT SERVICE SINK WITH BACK WALL HANGER, ROUGH CHROME PLATED FAUCET WITH TOP BRACE, ON 8" CENTERS, BUCKET HOOK, VACUUM BREAKER, STOPS AND HOSE END, 3" OUTLET DRAIN WITH STRAINER TO WALL ARE INSIDE WITH FOOT SUPPORT. 3" P-TRAP WITH CLEANOUT TO WALL INSIDE WITH FOOT SUPPORT.

SINK FAUCET HANGERS P-TRAP

KOHLER K-6714
KOHLER K-8905 RP
64515
ZURN TS-2900

TP-1 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 DISTRIBUTION UNIT

PPP PR-500
PPP DU-U

HB RECESSED HOSE BIB:

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING STAINLESS STEEL WALL BOX WITH HINGED COVER, 3/4 INCH HOSE THREAD, BRONZE BODY AND INTER PARTS, WHEEL HANDLE, LOOSE KEY FAUCET OPERATED CONTROL VALVE, DUAL CHECK VALVE, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, NARROW INSTALLATION.

WALL FAUCET

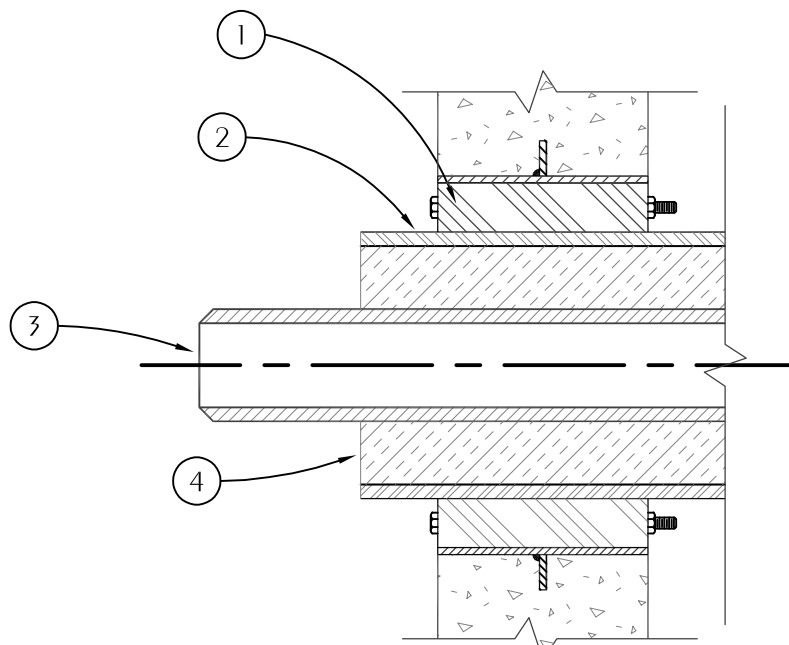
ZURN Z1335

DT-1 TROUGH DRAIN:

12"H X 18"W X 4"L, 45 GALLON CAPACITY, ARE 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 UNIT 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

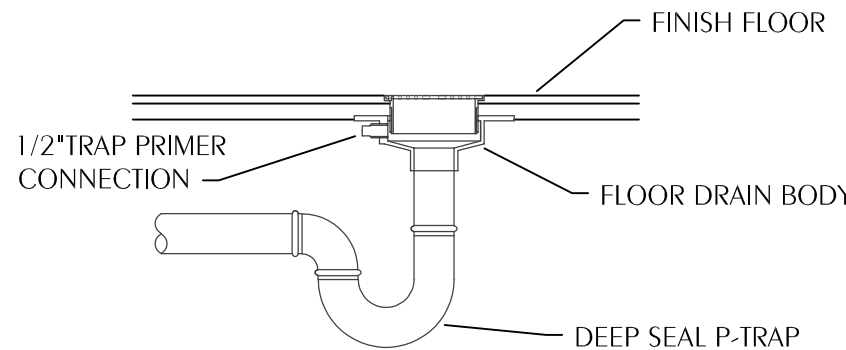
HIGH MARK DRAIN TROUGH



- 1 WALL SEAL APPURTENANCES PER SPECIFICATIONS
2 PIPE SLEEVE PER SPECIFICATIONS
3 PIPING
4 INSULATION

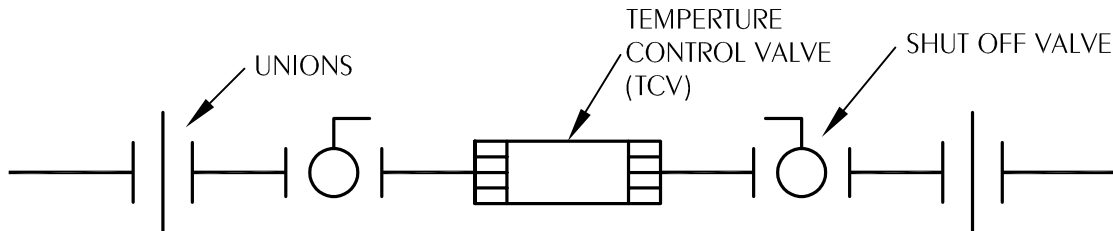
TYPICAL PIPE PENETRATION OF WALL

SCALE: NONE



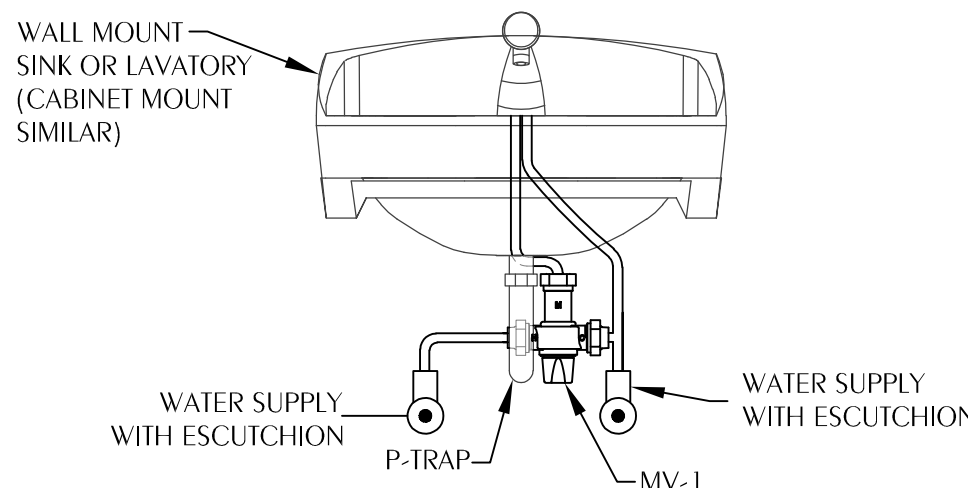
FLOOR DRAIN WITH TRAP PRIMER DETAIL

SCALE: NONE



THERMOSTATIC TEMPERATURE CONTROL VALVE DETAIL

SCALE: NONE



SET MV-1 TO 95°F

LAV/SINK MIXING VALVE DETAIL

SCALE: NONE

NOTE: MIXING VALVE WILL BE TYPICAL FOR SK-1 AND L-1

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SHEET PLUMBING SPECIFICATIONS AND DETAILS

NEW FIRE STATION

FOR THE: GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12

DATE: AUG 13, 2025

DRAWN BY: JDD

CHECKED BY: KAJ

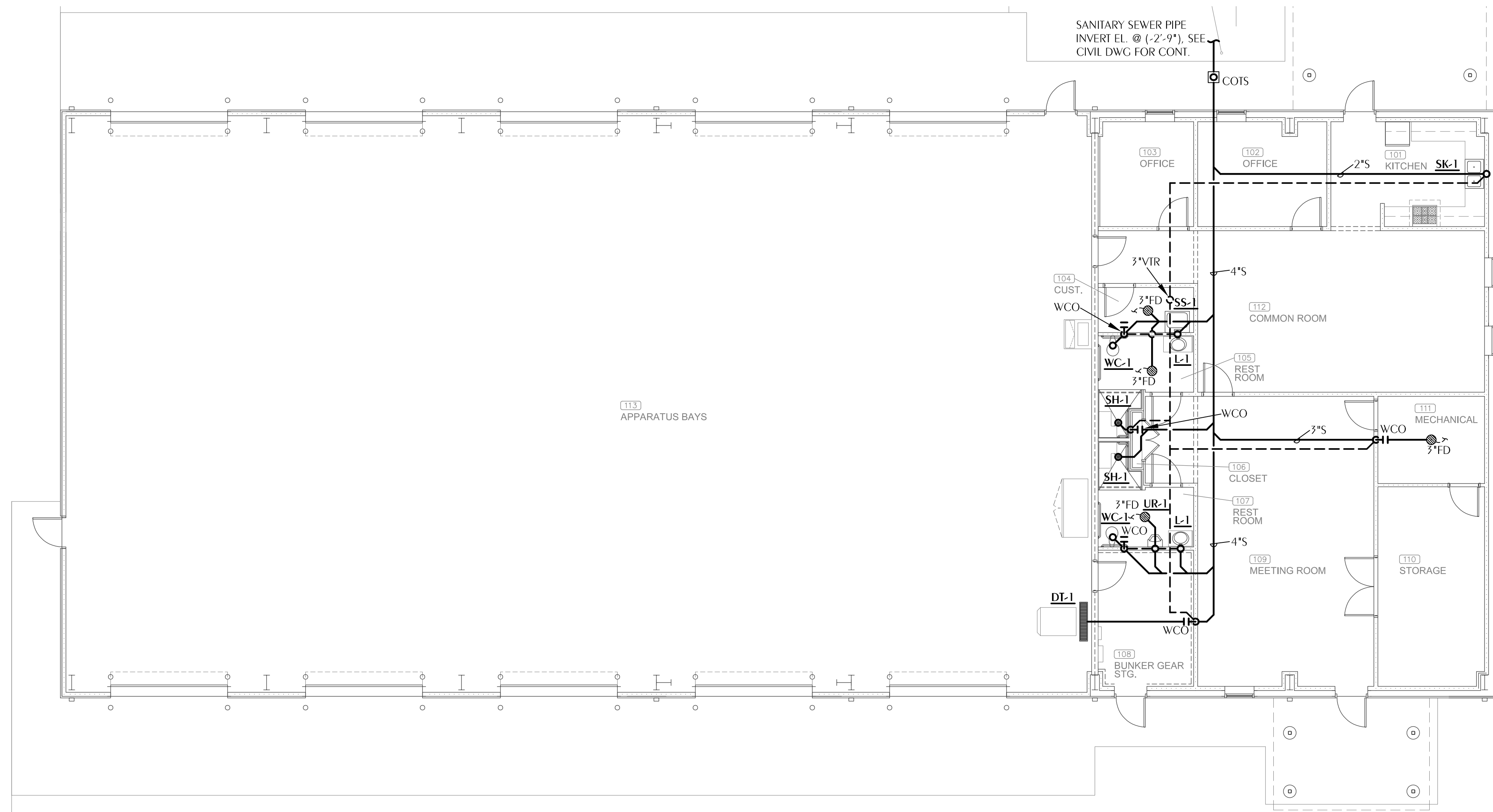
SHEET No.

P-0.2



Florida CA Number: 27825
Keith A. Johnson, P.E.
Florida License Number: 88457
600.526.3447
Project Number: 2025-009





 **1** **PLUMBING SANITARY FLOOR PLAN**
P-1.0 SCALE: 1/8" = 1'-0"

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

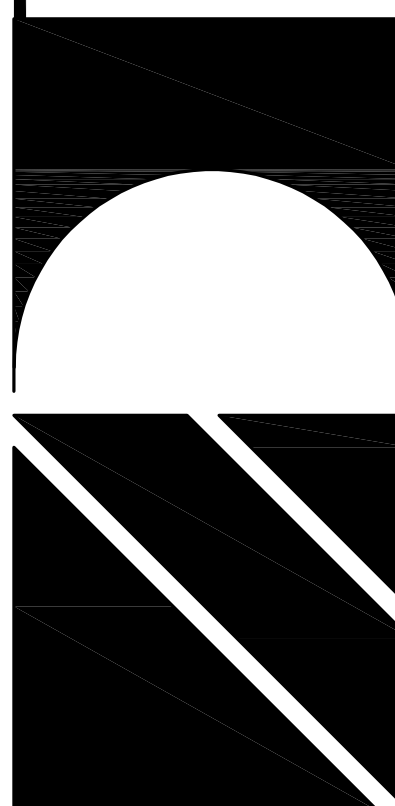

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Florida License Number: 86457
850.526.3447
Project Number: 2025-009

100% COMPLETE
CONSTRUCTION DOCUMENTS

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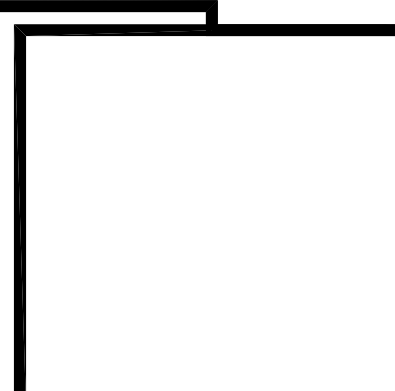
JOB NUMBER:
M- 2024-12
DATE:
AUG 13, 2025
DRAWN BY:
JDD
CHECKED BY:
KAJ

SHEET | PLUMBING - SANITARY FLOOR PLAN
TITLE:
NEW FIRE STATION
FOR THE:
GRAND RIDGE FIRE DEPARTMENT
GRAND RIDGE, FLORIDA



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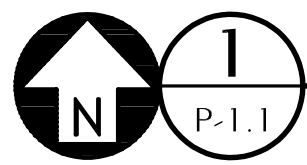
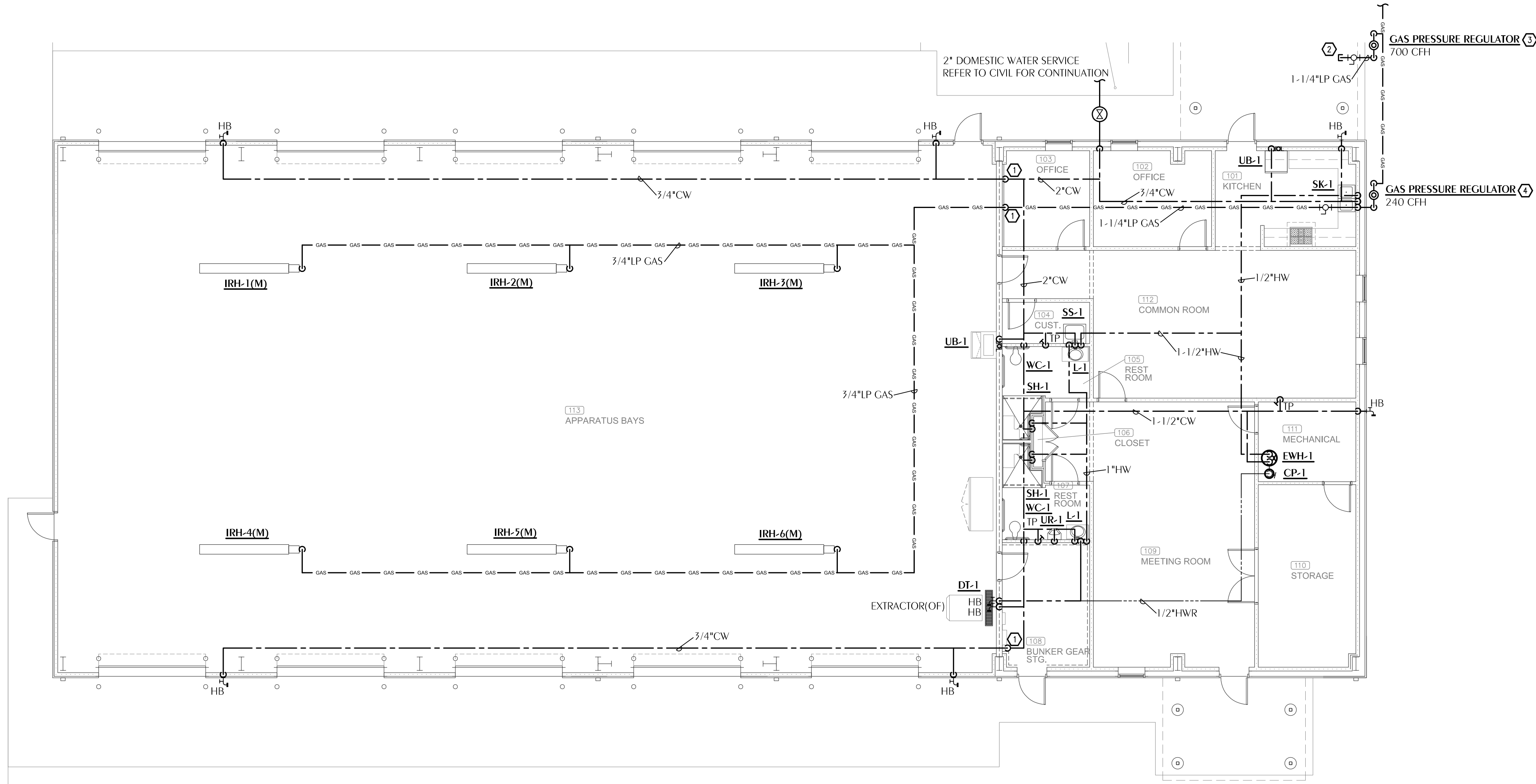
SHEET NOTES

- 1 RISE FROM FINISHED CEILING TO ROOF OF STRUCTURE AS REQUIRED.
- 2 STUB UP AND CAP GAS PIPING FOR FUTURE EQUIPMENT.
- 3 NEW LP GAS REGULATOR AND SERVICE - COORDINATE WITH LOCAL GAS AUTHORITY FOR THE INSTALLATION OF A NEW GAS PRESSURE REGULATOR AND SERVICE AND PAY ALL FEES AND COSTS IF ANY. OUTLET PRESSURE = 11"WC. CAPACITY = 700 CFH. COORDINATE EXACT LOCATION OF NEW GAS PRESSURE REGULATOR WITH OWNER AND GAS UTILITY PRIOR TO ROUGH-IN.
- 4 NEW LP GAS REGULATOR AND SERVICE - COORDINATE WITH LOCAL GAS AUTHORITY FOR THE INSTALLATION OF A NEW GAS PRESSURE REGULATOR AND SERVICE AND PAY ALL FEES AND COSTS IF ANY. OUTLET PRESSURE = 11"WC. CAPACITY = 240 CFH. COORDINATE EXACT LOCATION OF NEW GAS PRESSURE REGULATOR WITH OWNER AND GAS UTILITY PRIOR TO ROUGH-IN.

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PLUMBING DOMESTIC WATER FLOOR PLAN

SCALE: 1/8" = 1'-0"

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

WATFORD
ENGINEERING

Florida CA Number: 27825
Keith A. Johnson, PE
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850.526.3447
Project Number: 2025-009

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AUG. 13, 2025

SHEET TITLE: PLUMBING DOMESTIC WATER FLOOR PLAN

FOR THE: NEW FIRE STATION

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12

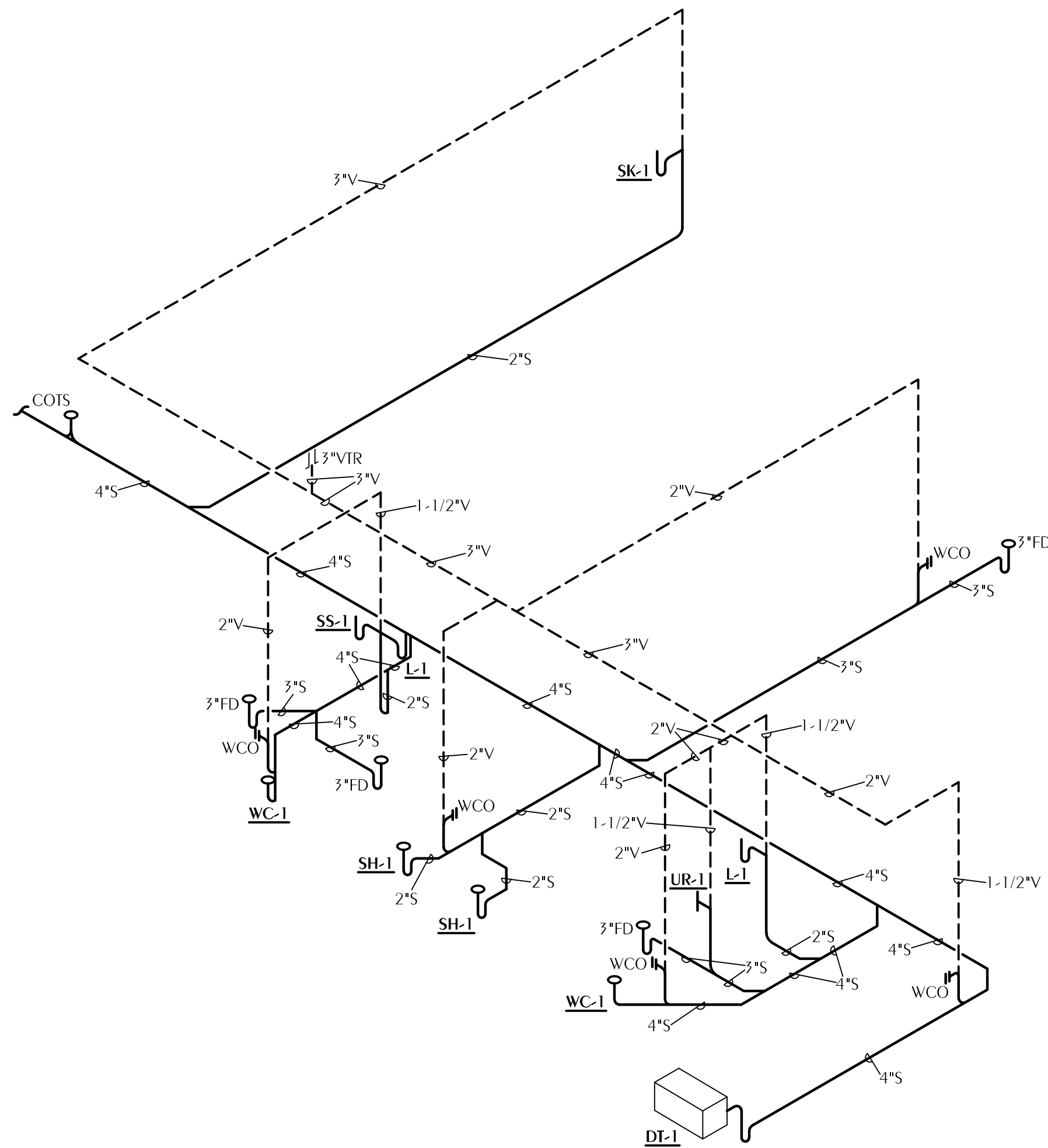
DATE:
AUG 13, 2025

DRAWN BY:
JDD

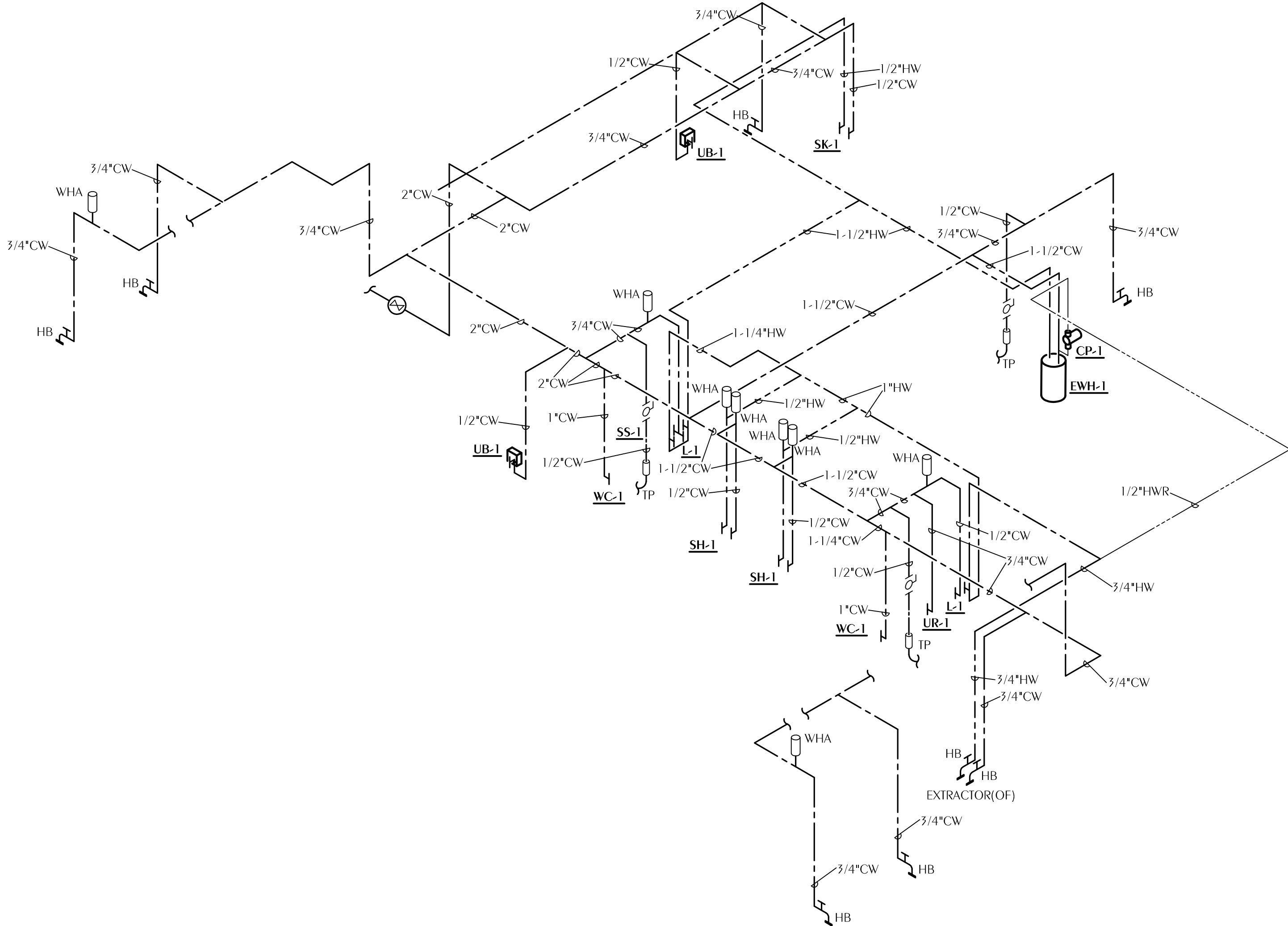
CHECKED BY:
KAJ

SHEET No.

P-1.1



1 PLUMBING SANITARY RISER DIAGRAM
P-2.0 SCALE: NONE



2 PLUMBING DOMESTIC WATER RISER DIAGRAM
P-2.0 SCALE: NONE

GAS FIRED EQUIP. SCHEDULE

TAG	INPUT (BTUH)	CONNECTION SIZE	INLET PRESSURE RANGE
IRH-1(M) THRU IRH-6(M)	40,000	1/2"	11" - 14" W.C.
OUTDOOR EQUIPMENT (FUTURE)	700,000 (BASIS)	-	-

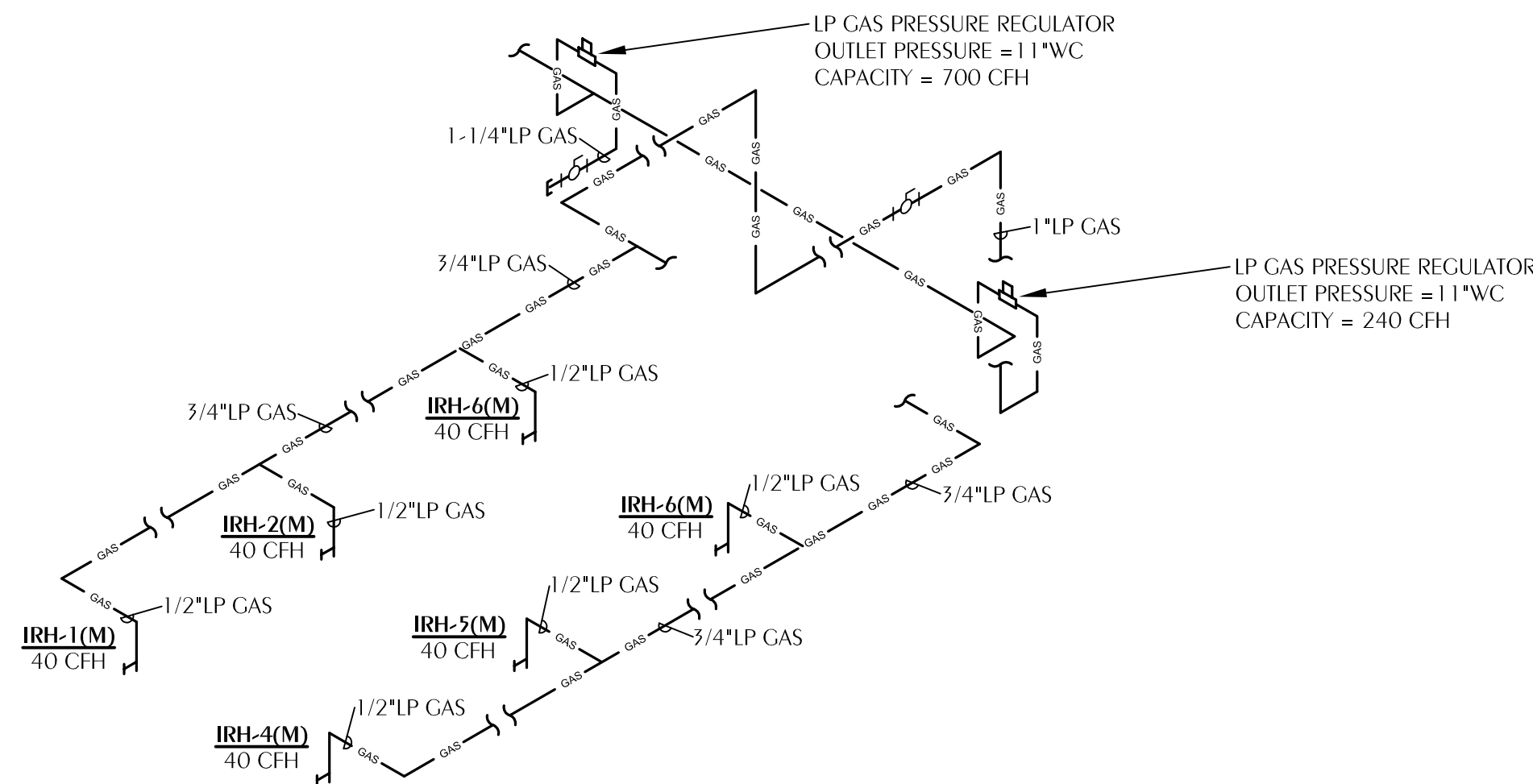
NOTE: SIZES BASED ON A LP GAS SYSTEM, INLET PRESSURE OF 11 PSI OR LESS, PRESSURE DROP OF 0.5" W.C., AND A SPECIFIC GRAVITY OF 1.50.

GENERAL NOTES

- COORDINATE GAS SERVICE AND METERING WITH GAS UTILITY. CONTRACTOR SHALL PAY ALL FEES AND INSTALLATION COST FOR SERVICE TO THE BUILDING.
- COORDINATE FINAL CONNECTION SIZE AND LOCATION WITH EQUIPMENT SUPPLIED.
- GAS PIPING WITHIN INACCESSIBLE CEILINGS AND WALLS SHALL BE WITHIN A VENTED CONDUIT.
- PROVIDE SHUTOFF GAS COCK AT EACH HEATER.

SHEET NOTES

- INTERFACE WITH GAS UTILITY SERVICE AT 5 FOOT FROM BUILDING.
- PROVIDE SLEEVE AND FILLER, EXTEND GAS SERVICE THROUGH EXTERIOR WALL ABOVE GRADE.



3 LP GAS RISER DIAGRAM
P-2.0 SCALE: NONE

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SHEET PLUMBING RISER DIAGRAMS

NEW FIRE STATION

FOR THE: GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12

DATE:
AUG 13, 2025

DRAWN BY:
JDD

CHECKED BY:
KAJ

SHEET No.

P-2.0

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LEGEND

AHU-1	EQUIPMENT TAG	SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	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
	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
	RECTANGULAR DUCT SIZE (**A* INDICATES SIDE SHOWN; *B* INDICATES SIDE NOT SHOWN)	RA	RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT.	EA	EXHAUST AIR
	EXTERNALLY INSULATED DUCTWORK	MA	MIXED AIR
	INTERNALLY INSULATED DOUBLE WALL SPIRAL DUCTWORK	OA	OUTDOOR AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	TA	TRANSFER AIR
	DUCT ELBOW WITH TURNING VANES	EF	EXHAUST FAN
	RADIUSED DUCT ELBOW	CD	CEILING DIFFUSER
	FLEXIBLE DUCT CONNECTION	RG	RETURN GRILLE
	MANUAL VOLUME BALANCING DAMPER	EG	EXHAUST GRILLE
	MOTORIZED DAMPER	ER	EXHAUST REGISTER
	FIRE DAMPER WITH ACCESS DOORS	CREF	CEILING ROOF EXHAUST FAN
	BACKDRAFT DAMPER	AHU	INDOOR AIR HANDLING UNIT
	TEE WITH TURNING VANES	CU	OUTDOOR CONDENSING UNIT
	TRANSITION	①	TEMPERATURE AND HUMIDITY SENSOR WITH SET POINT ADJUSTMENT, *1* INDICATES UNIT CONTROLLED
	FLEX DUCT TAKE OFF WITH MVD. SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	⑤	DUCT MOUNTED SMOKE DETECTOR
	BRANCH DUCT TAKEOFF WITH MVD	FD	FLOOR DRAIN
		UC	UNDERCUT DOOR ½"
		DG	18"x18" DOOR GRILLE WITH AUXILIARY MOUNTING FRAME. TITUS MODEL CT-700L
		AFF	ABOVE FINISHED FLOOR
		FD	FIRE DAMPER AT CEILING DIFFUSER OR GRILLE.
		XFR	TRANSFER AIR
		DDC	DIRECT DIGITAL CONTROLS
		IRH	INFRARED RADIANT HEATER
		TC	TIME CLOCK
		SWG	SIDE WALL GRILLE WITH OPPOSED BLADE BALANCING DAMPER
		S	EQUIPMENT SWITCH
		CF	CEILING FAN

VENTILATION SCHEDULE		
SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON
CORRIDOR	0.06	0
MEETING ROOM	0.06	5
OFFICE	0.06	5
RESTROOM	0	50/FIXTURE
SHOWER	0	50/FIXTURE
STORAGE	0.12	0
VEHICLE STORAGE	0.75	0
KITCHEN	0.12	7.5

NOTE:
VENTILATION RATES IN ACCORDANCE WITH ASHRAE STANDARD 62.1-2019, VENTILATION RATE PROCEDURE.

AIR DEVICE SCHEDULE				
MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	12x12	6Ø	TDC-AA
CD-2 CFM	245	12x12	8Ø	TDC-AA
CD-3 CFM	350	12x12	10Ø	TDC-AA
RG, EG, SG, TC, RR, ER				
xx-1 CFM	450	12x12	12x12	350FL
xx-2 CFM	1705	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. PROVIDE ALUMINUM BIRD SCREEN FOR SOFFIT GRILLES.

SPLIT SYSTEM HEAT PUMP SCHEDULE																						
UNIT AHU/HP	BASIS OF DESIGN	MODEL (AHU/HP)	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING			HEATING				SUPPL HEAT (KW)	AHU ELECTRICAL		HP ELECTRICAL		NOTES			
							MAT ° (DB/WB)	OAT ° (DB/WB)	TOTAL (BTUH)		MAT ° (DB)	OAT ° (DB)	TOTAL (BTUH)	HSPF2								
1	TRANE	5TEM6B03AV21/5TWA4036A3	1125	155	0.30	1/2	75.3/62.8	95.0/78.0	34100		63.9	25	22200	7.8	3.84	230/1	25	25	230/1	19	30	1,2,3,4,5,6,7,8
2	TRANE	5TEM6B03AV21/5TWA4036A3	1085	150	0.30	1/2	75.2/63.0	95.0/78.0	31200		65.4	25	23700	7.8	3.84	230/1	25	25	230/1	19	30	1,2,3,4,5,6,7,8

1. PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
5. PROVIDE THERMAL EXPANSION VALVES.
6. DIRECT DRIVE AHU FAN.
7. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
8. PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.

SEQUENCE OF OPERATION

AHU/HP

GENERAL: PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH UNIT. THERMOSTAT SHALL BE CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. THERMOSTAT SHALL ACCEPT AN EXTERNAL OCCUPIED SCHEDULE FROM THE ELECTRONIC MECHANICAL EQUIPMENT TIME CLOCK.

OCCUPIED MODE: THE THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL OPERATE A 2ND STAGE OF HEAT ONLY WHEN OUTDOOR TEMPERATURE IS BELOW 40°F. THE SETPOINT FOR COOLING SHALL BE 75° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70° F ADJUSTABLE.

UNOCCUPIED MODE: THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 85° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HOUR.

IRH

PROVIDE SINGLE STAGE PROGRAMMABLE THERMOSTAT. OCCUPIED SETPOINT = 65°F (ADJUSTABLE) UNOCCUPIED SETPOINT = 50°F (ADJUSTABLE).

FAN SCHEDULE											
UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H2O)	MAX. MOTOR POWER	SONES/db (MAX.)	BASIS OF DESIGN	MODEL	CONTROL	ELECTRICAL VOLTS/PHASE	NOTES
EF-1	INLINE	235	1145	0.25	29W	2.5	COOK	GNVF-500	INTERLOCK WITH AHU-1 OA DAMPER	115/1	1,2,3,4,5
EF-2	WALL	4650	1725	0.25	1/2 HP	14.8	COOK	30XMW	DEDICATED SWITCH	115/1	1,2,3,4,6

1. PROVIDE DISCONNECT
2. PROVIDE SOLID STATE SPEED CONTROLLER
3. PROVIDE BACK DRAFT DAMPER
4. PROVIDE THERMAL OVERLOAD
5. PROVIDE DIRECT DRIVE FAN
6. SWITCH SHALL BE MOUNTED AT SAME HEIGHT AS LIGHT SWITCHES. REFER TO ELECTRICAL DRAWINGS.

INFRARED HEATER SCHEDULE											
UNIT IRH	BASIS OF DESIGN	MODEL	BTUH	MOUNT HEIGHT	TOTAL TUBE LENGTH	REFLECTOR PATTERN	ELECTRICAL VOLTS/PHASE	AMPS	GAS	NOTES	
IRH-1	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	
IRH-2	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	
IRH-3	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	
IRH-4	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	
IRH-5	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	
IRH-6	SPACE RAY	PTS-40	40000	16' AFF	10'	0 DEG	120/1	1.8	PROPANE	1,2,3,4,5,6,7	

1. PROVIDE ASYMMETRIC REFLECTOR.
2. HEATERS SHALL BE EQUIPPED WITH A 24-VOLT DIRECT SPARK IGNITION WITH AUTOMATIC 100% SHUTOFF SYSTEM.
3. HEATER CONTROL SHALL INCLUDE A PRESSURE SWITCH DESIGNED FOR COMPLETE UNIT SHUTOFF.
4. HEATERS SHALL BE EQUIPPED WITH AN ON-LINE DIAGNOSIS MONITORING LIGHT SYSTEM.
5. HEATERS SHALL OPERATE UNDER NEGATIVE PRESSURE.
6. HEATER EXHAUST SHALL INCLUDE A DRAFT INDUCER, THE DRAFT INDUCER SHALL BE PERMANENTLY LUBRICATED, TOTALLY ENCLOSED, SHIELDED, FAN COOLED AND HAVE A HEAVY DUTY BALL BEARING MOTOR.
7. TOP MOUNTED MINIMUM OF 12" BELOW STRUCTURAL FRAMING.

LOUVER SCHEDULE				
MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT² (MIN)	PRESSURE DROP IN. WG (MAX)
LVR-1 CFM	420	18X18	0.80	0.10
LVR-2 CFM	4690	48X48	8.70	0.10
LVR-3 CFM	2325	60X60	13.8	0.01
LVR-4 CFM	905	24X24	1.7	0.10

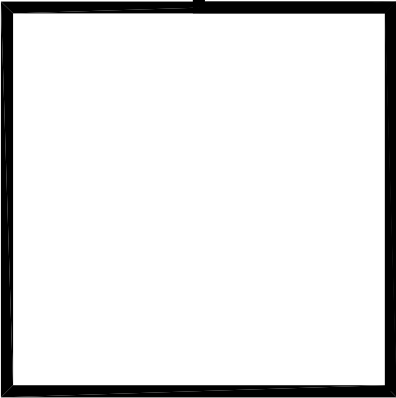
1. PROVIDE GREENHECK MODEL 'EHV-901D' (OR EQUAL) EXTRUDED ALUMINUM, WIND-DRIVEN RAIN-RESISTANT, STATIONARY LOUVER WITH BIRDSCREEN AND FLORIDA PRODUCT APPROVAL
2. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
3. PROVIDE LOUVERS WITH FLANGED FRAME. VERIFY FRAME TYPE WITH ARCHITECT.
4. ANY FRONT BAFFLE IN FRONT OF LOUVER BLADES SHALL BE NO GREATER THAN 2-1/2" IN HEIGHT.

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. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
7. ALL AHU AND OAU 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.
8. PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
9. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
10. ROUTE REFRIGERANT LINES AND CONDENSATE ALONG WALLS OF MECHANICAL ROOMS. LINES SHALL NOT CROSS WALKING PATH TO INDOOR EQUIPMENT.
11. ALL LOW VOLTAGE CONTROLS SHALL BE ROUTED IN CONDUIT.
12. ALL WORK SHALL COMPLY WITH 8TH EDITION (2023) FLORIDA BUILDING CODE.

DUCTWORK NOTES

1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX 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 AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
3. ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. 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 UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
5. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
6. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A.
7. WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.



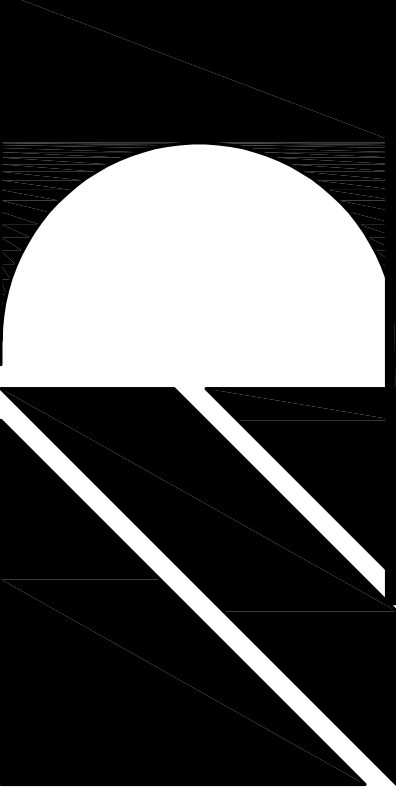
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PAUL DONOFRO
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SHEET HVAC LEGENDS, & NOTES

NEW FIRE STATION

FOR THE: GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12

DATE: AUG 13, 2025

DRAWN BY: IVB

CHECKED BY: KAJ

SHEET No.

M-0.1

WATFORD ENGINEERING

4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road Auburn, AL 36830

Florida CA Number: 27825
Keith A. Johnson, P.E.
Florida License Number: 88457
850.526.3447
Project Number: 2025-009

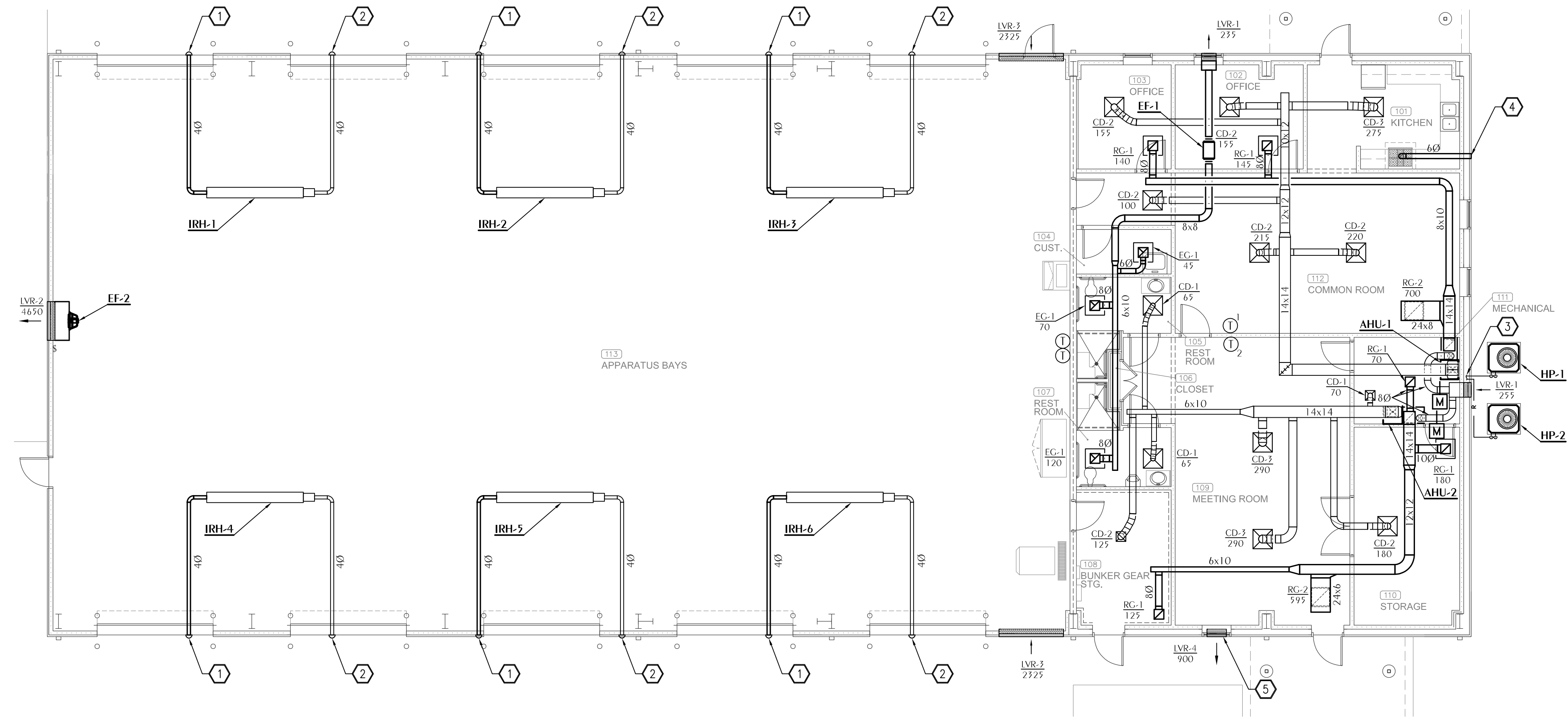
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CONSTRUCTION DOCUMENTS

DONOFRO ARCHITECTS

NOT FOR CONSTRUCTION

AUG. 13, 2025



HVAC NEW WORK PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

- 1 PROVIDE WALL CAP FOR GAS FLUE VENT.
- 2 PROVIDE WALL CAP FOR COMBUSTION AIR INTAKE.
- 3 ROUTE REFRIGERANT PIPING TO RESPECTIVE AIR HANDLER.
- 4 PROVIDE WALL CAP.
- 5 LOUVER FOR FUTURE DRYER IN 108 BUNKER GEAR STG. SEAL AND INSULATE LOUVER INSIDE.

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SHEET HVAC NEW WORK PLAN

FOR THE

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12

DATE:
AUG 13, 2025

DRAWN BY:
IVB

CHECKED BY:
K.A.J.

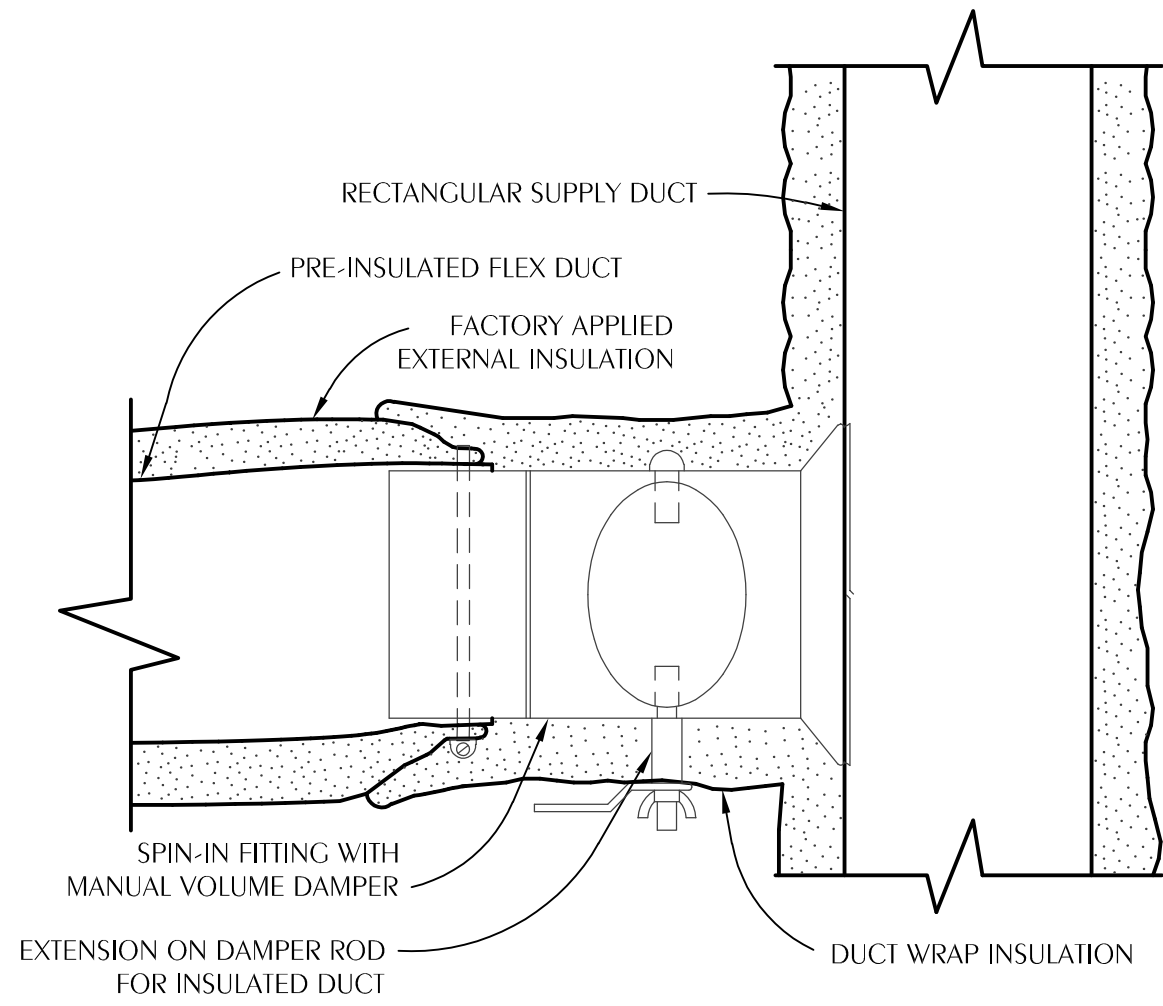
SHEET No.

M-1.1

**WATFORD
ENGINEERING**
4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road Auburn, AL 36830

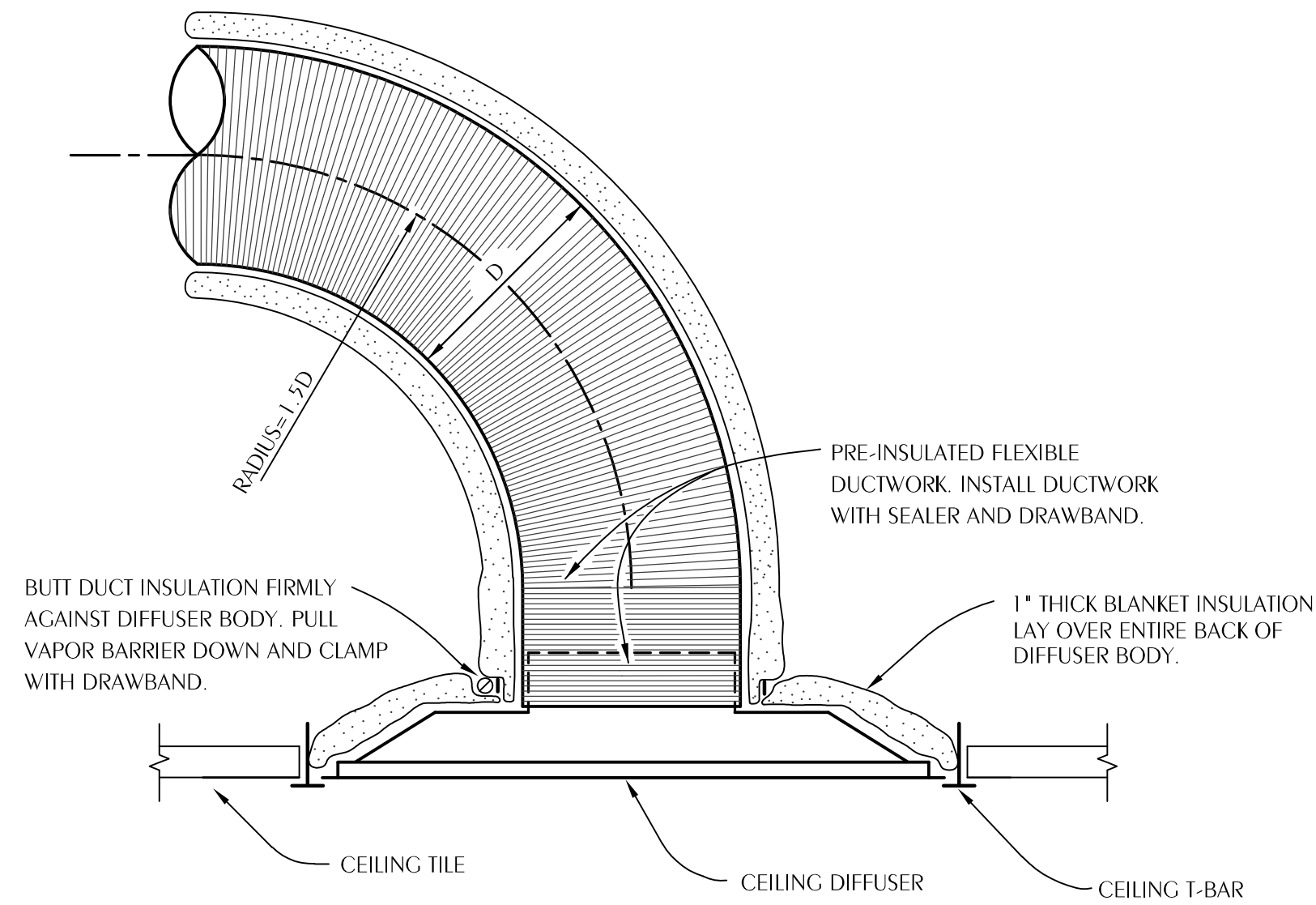
Florida CA Number: 27825
Keith A. Johnson, P.E.
Florida License Number: 86457
850.526.3447
Project Number: 2025-009

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CONSTRUCTION DOCUMENTS
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AUG. 13, 2025



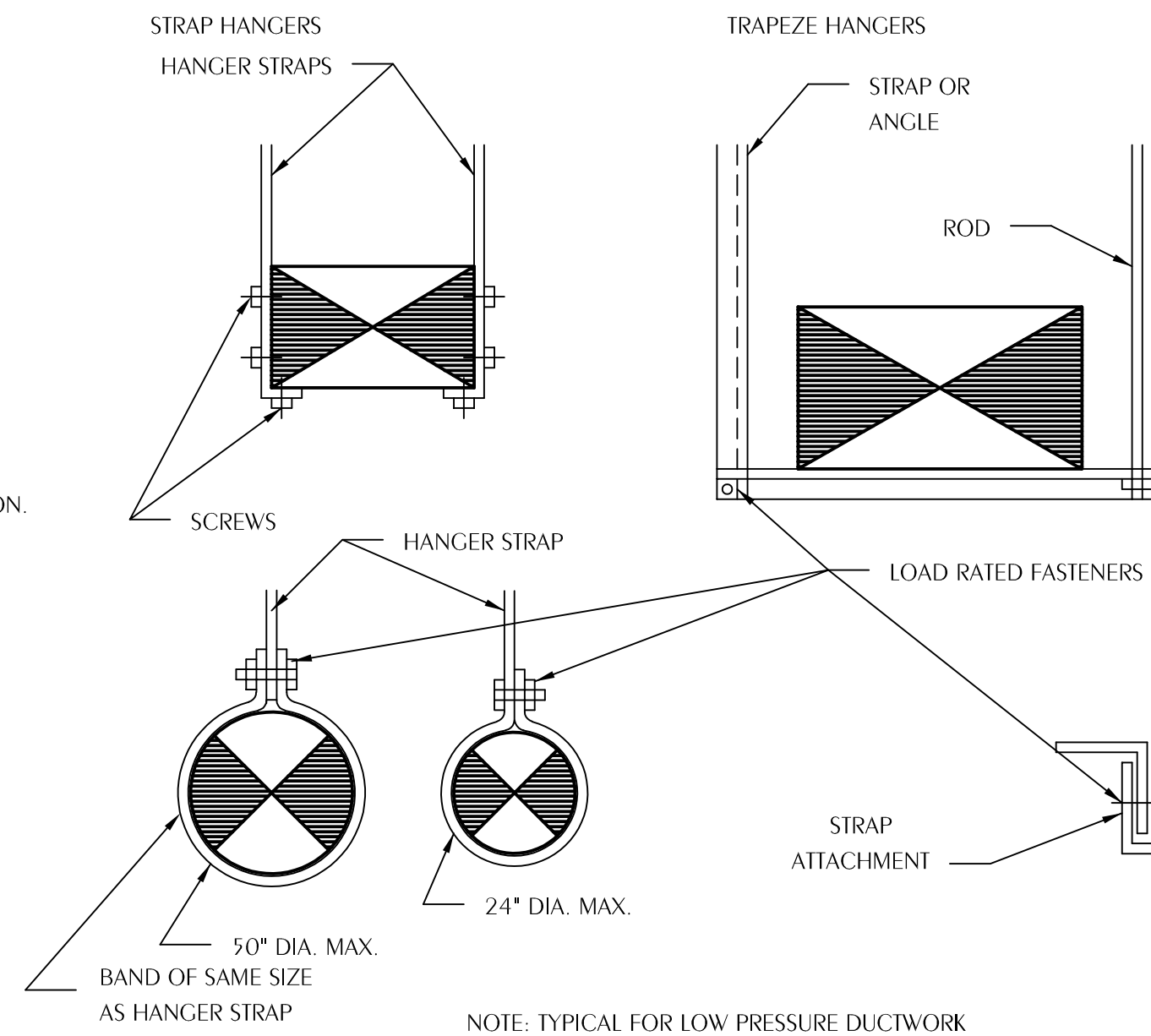
NOTES:
CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.
ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKE OFFS LOCATED ABOVE HARD CEILINGS.

1 TYPICAL FLEX DUCT TAKEOFF DETAIL
M-2.1 SCALE: NONE

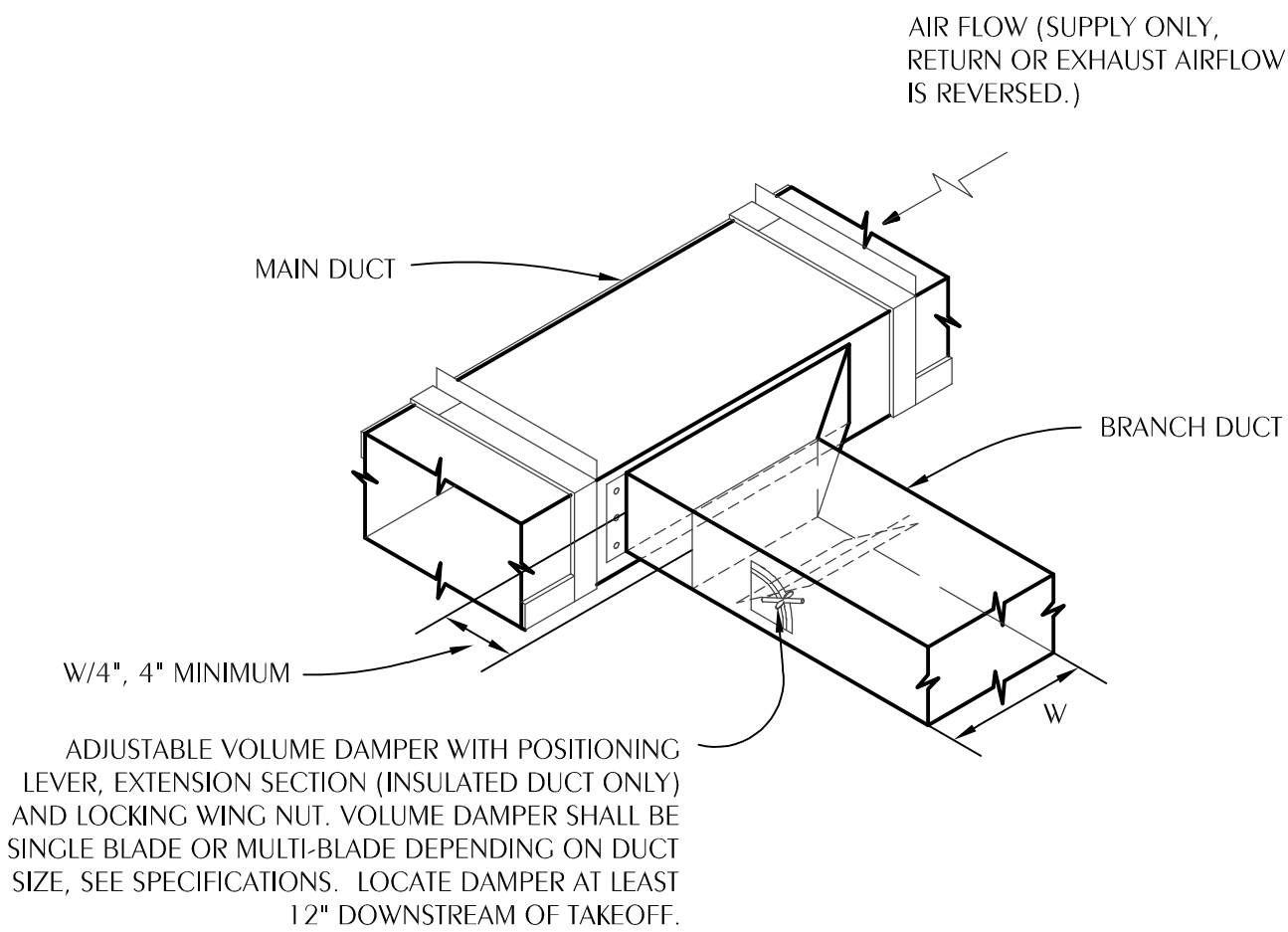


NOTES:
FLEX DUCT SHALL BE NO LONGER THAN 5'-0".
PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.
PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

2 TYPICAL CEILING DIFFUSER DETAIL
M-2.1 SCALE: NONE

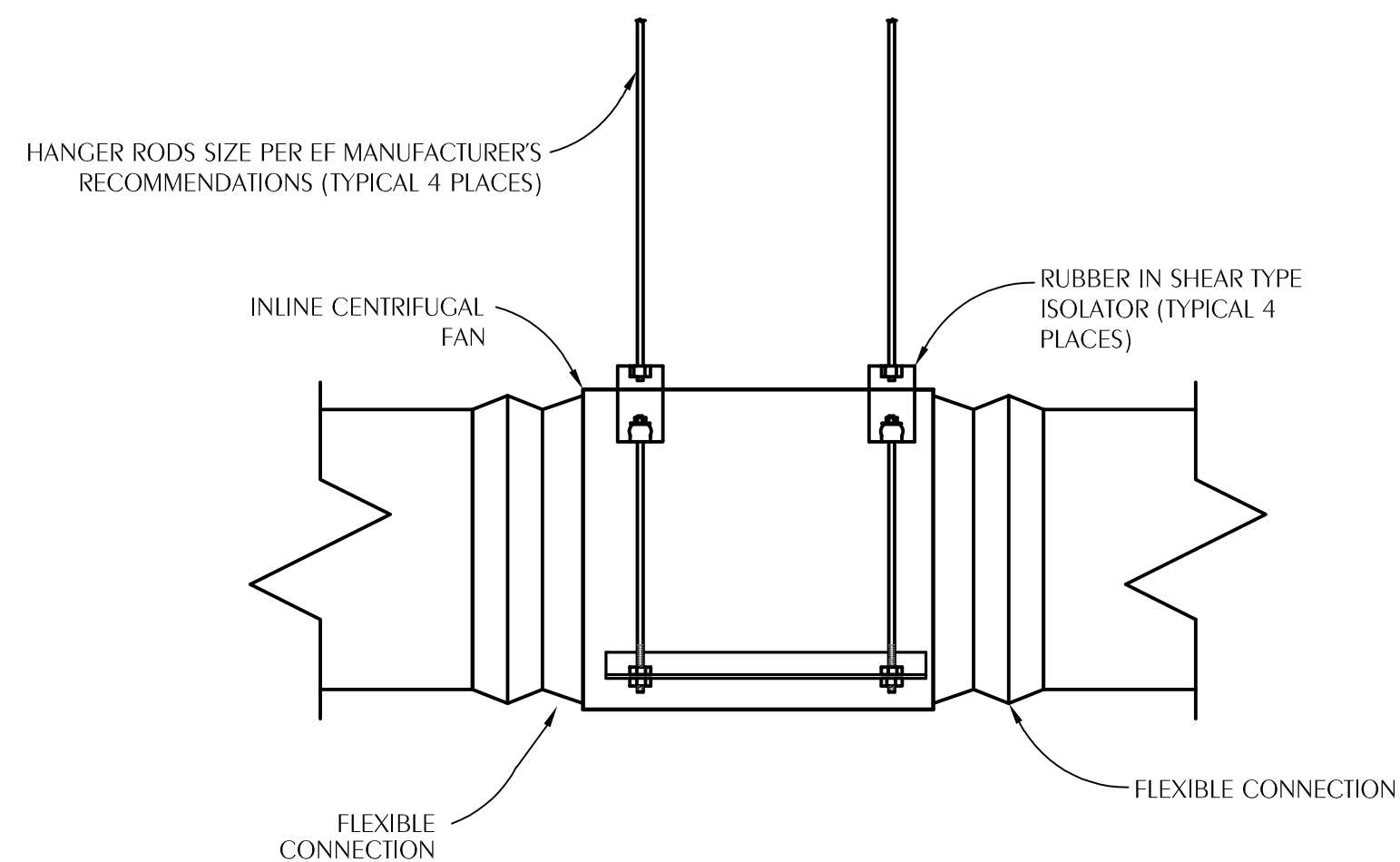


3 DUCT HANGER DETAILS
M-2.1 SCALE: NONE

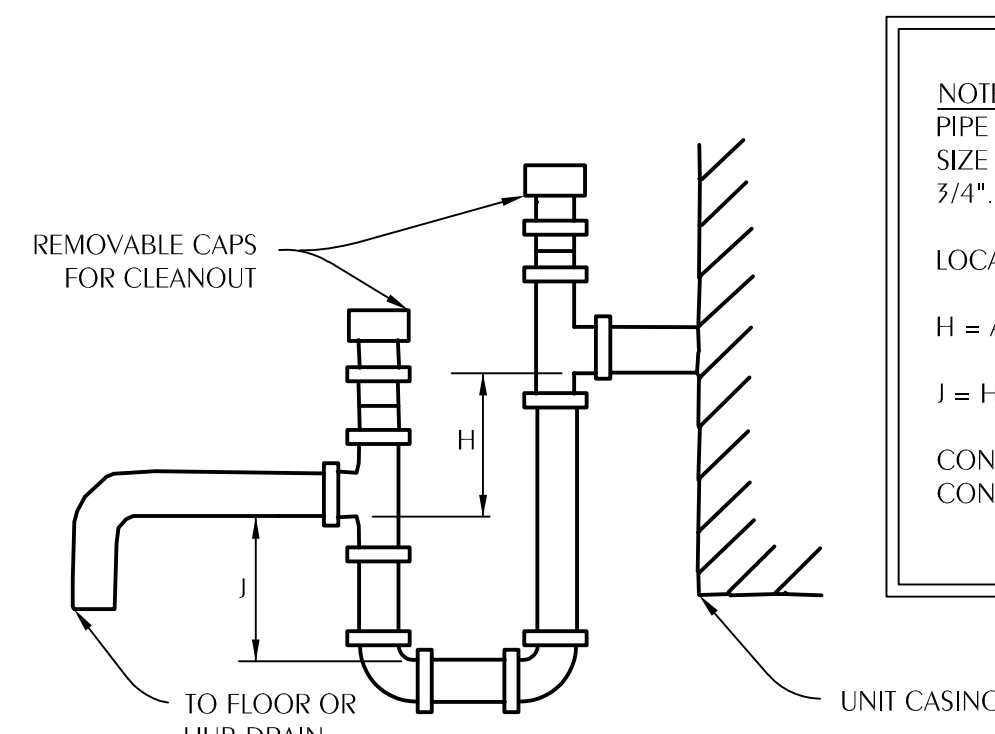


NOTES:
PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.

4 TYPICAL BRANCH DUCT TAKEOFF
M-2.1 SCALE: NONE

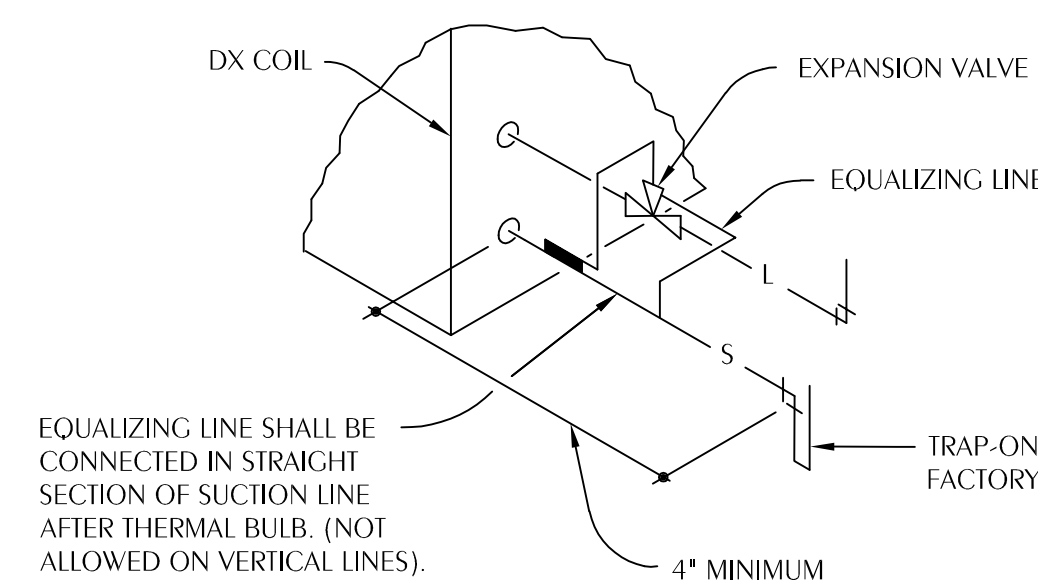


5 INLINE FAN DETAIL
M-2.1 SCALE: NONE

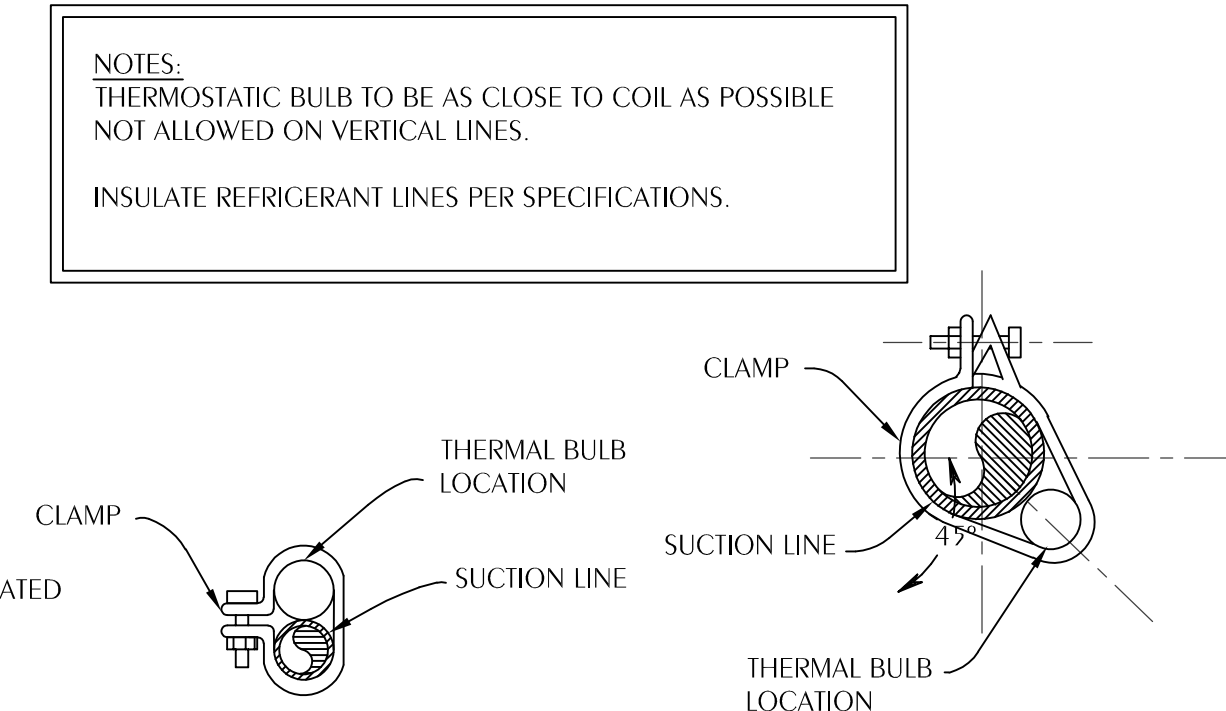


NOTES:
PIPE TYPE 'L' HARD DRAWN COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4".
LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
 $H = \text{AIR UNIT TOTAL STATIC PRESSURE} + 1"$
 $J = H/2$
CONDENSATE PIPE SHALL BE PROVIDED BY THE HVAC CONTRACTOR.

6 NEGATIVE PRESSURE CONDENSATE DRAIN TRAP
M-2.1 SCALE: NONE

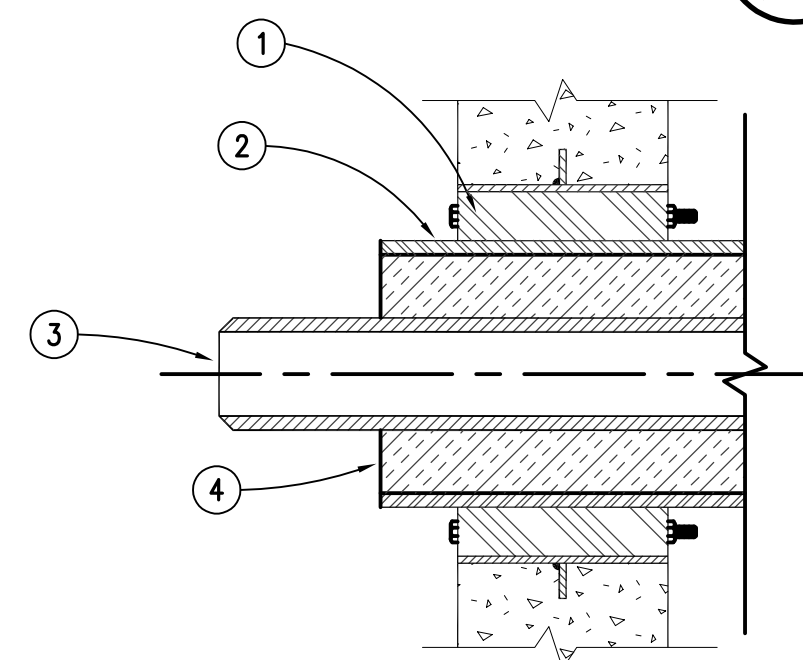


7 REFRIGERANT COIL CONNECTION DETAIL
M-2.1 SCALE: NONE



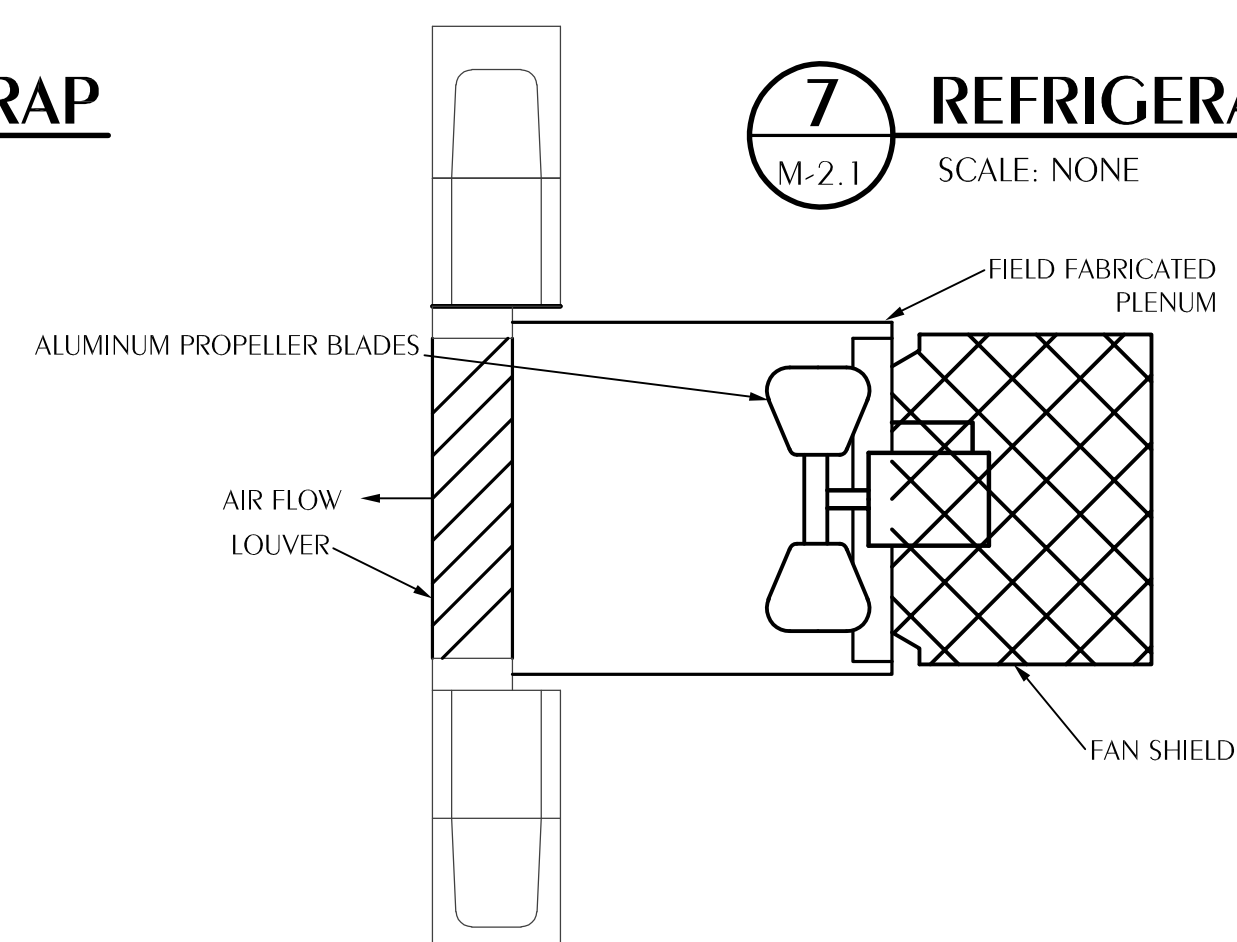
5/8" O.D. OR SMALLER

7/8" O.D. OR LARGER



- 1 WALL OR FLOOR SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

8 TYPICAL WALL PIPE PENETRATION
M-2.1 SCALE: NONE



NOTES:
FAN SHALL BE WALL MOUNTED, DIRECT DRIVEN, PROPELLER EXHAUST FAN.
FASTENERS SHOULD BE PLACED 6-10 INCHES CENTERS ON THE PERIMETER OF THE WALL COLLAR. COLLAR SHALL BE CAULKED TO THE EXTERIOR OF WALL.
FAN PLENUM SHALL EXTEND A MINIMUM OF 18" FROM THE WALL.

9 WALL FAN DETAIL
M-2.1 NONE

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FAX: (850) 482-8609

SHEET HVAC DETAILS
TITLE:

NEW FIRE STATION

FOR THE:

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER:
M-2024-12

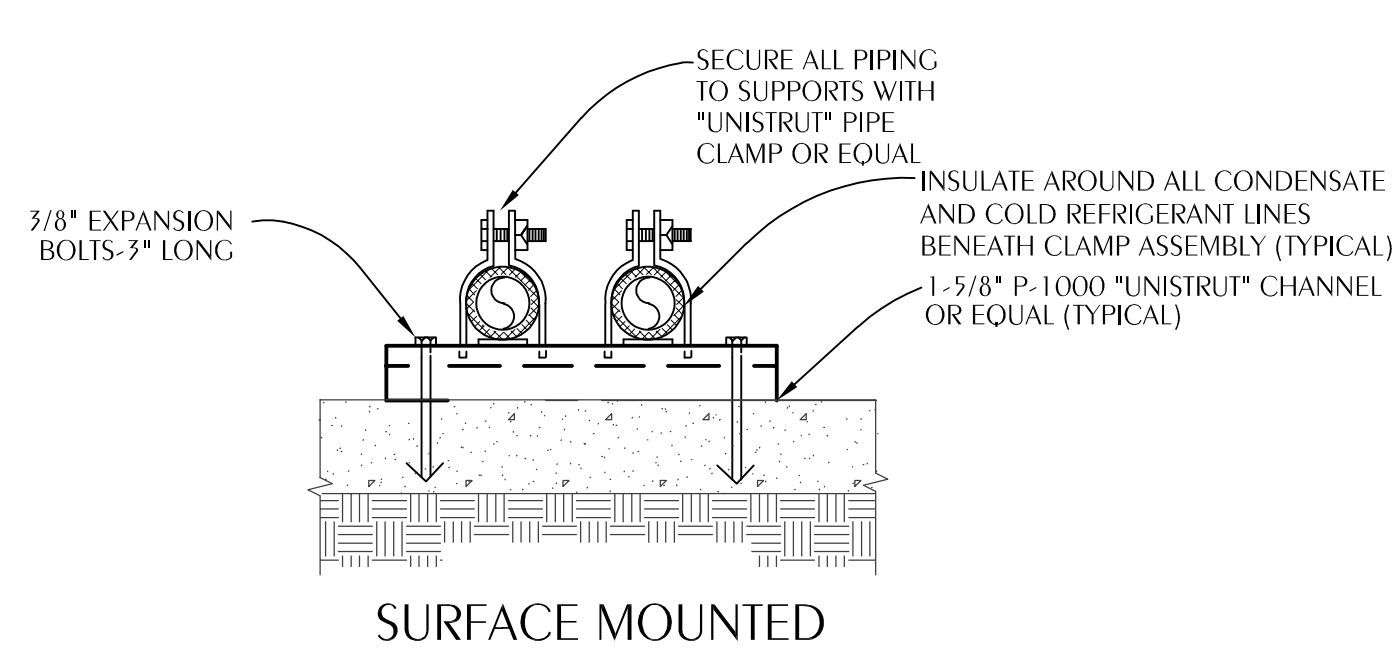
DATE:
AUG 13, 2025

DRAWN BY:
IVB

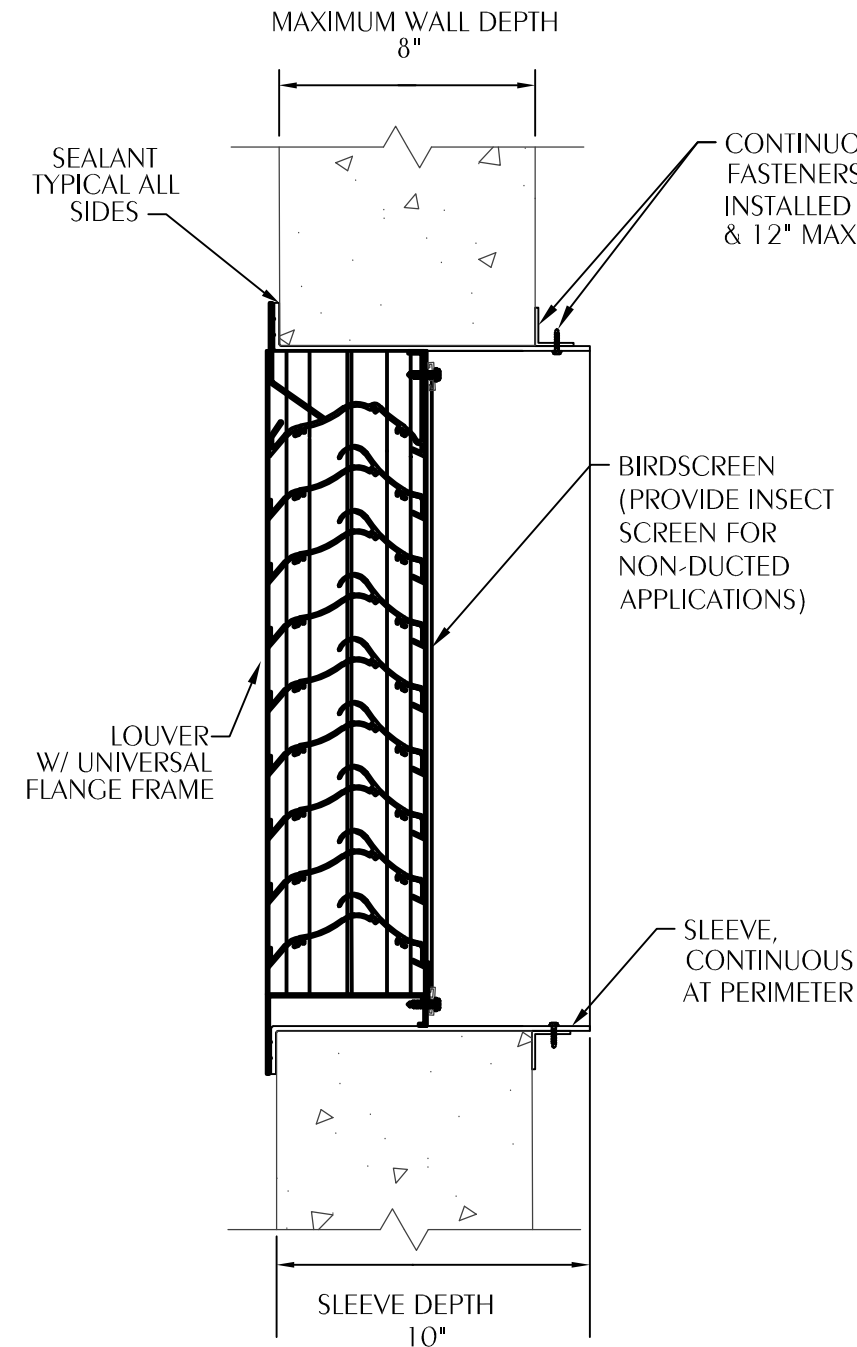
CHECKED BY:
K.A.J.

SHEET No.

M-2.1

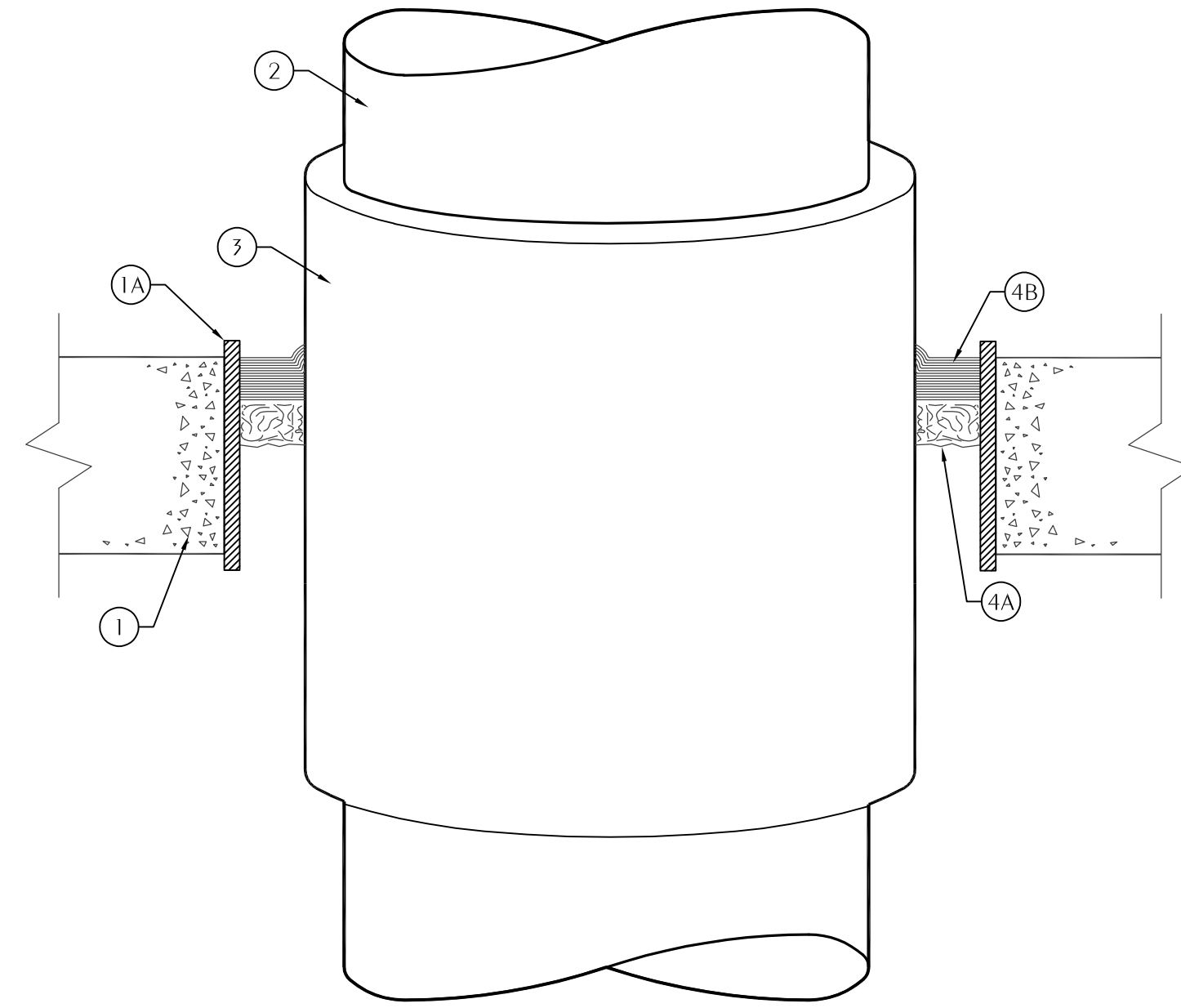


1 TYPICAL EXTERIOR PIPING SUPPORT DETAIL
M-2.2 SCALE: NONE



2 WALL LOUVER DETAIL
M-2.2 SCALE: NONE GREENHECK EHV-901D OR EQUAL
FLORIDA PRODUCT APPROVAL #19683

- NOTES:**
- THE INSTALLATION SHOWN HEREIN MUST BE FOLLOWED STRICTLY TO ENSURE COMPLIANCE WITH FLORIDA BUILDING CODE PRODUCT APPROVAL.
 - CONTINUOUS INSTALLATION ANGLES AND FASTENERS ARE SHIPPED LOOSE AND REQUIRE INSTALLATION IN THE FIELD.
 - ANCHORS OR FASTENERS INTO THE WALL ARE NOT REQUIRED.
 - SHIMS MAY BE REQUIRED TO ACHIEVE CONSISTENT CLEARANCE BETWEEN LOUVER AND OPENING ON ALL SIDES.



CONSULT CURRENT UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY" FOR DETAILS

UL SYSTEM CAJ5001

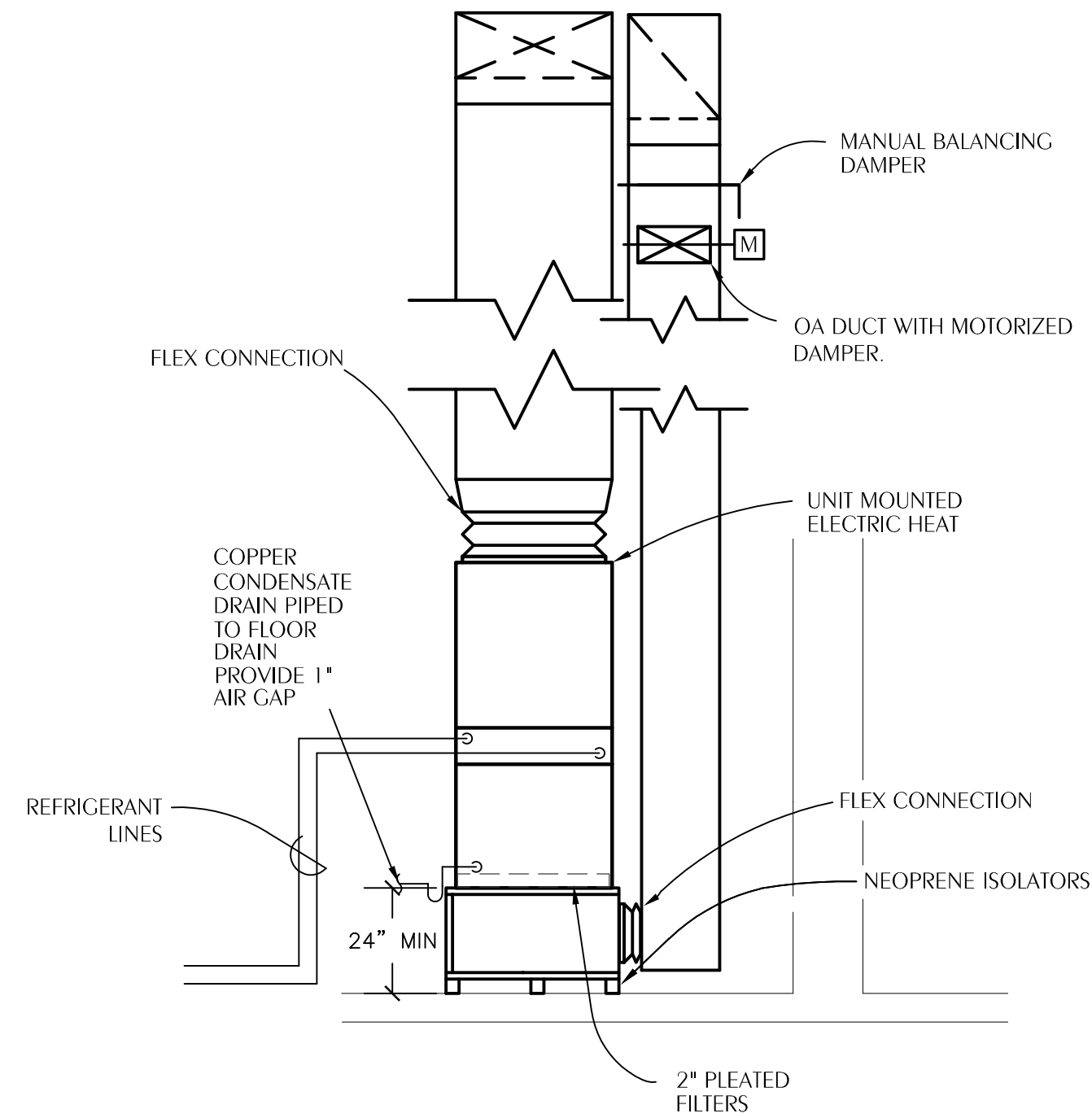
3 TYPICAL FIRE RATED WALL/FLOOR PENETRATION
M-2.2 SCALE: NONE FIBERGLASS INSULATED METALLIC PIPE

- 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.
- 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.
- THROUGH PENETRANT**—NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE, NOM 1/2 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 1/2 IN. DIAM (OR SMALLER) CLASS 501 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE OR NOM 1/2 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.
- 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.
- FIRESTOP SYSTEM**—THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - 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).
 - 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:

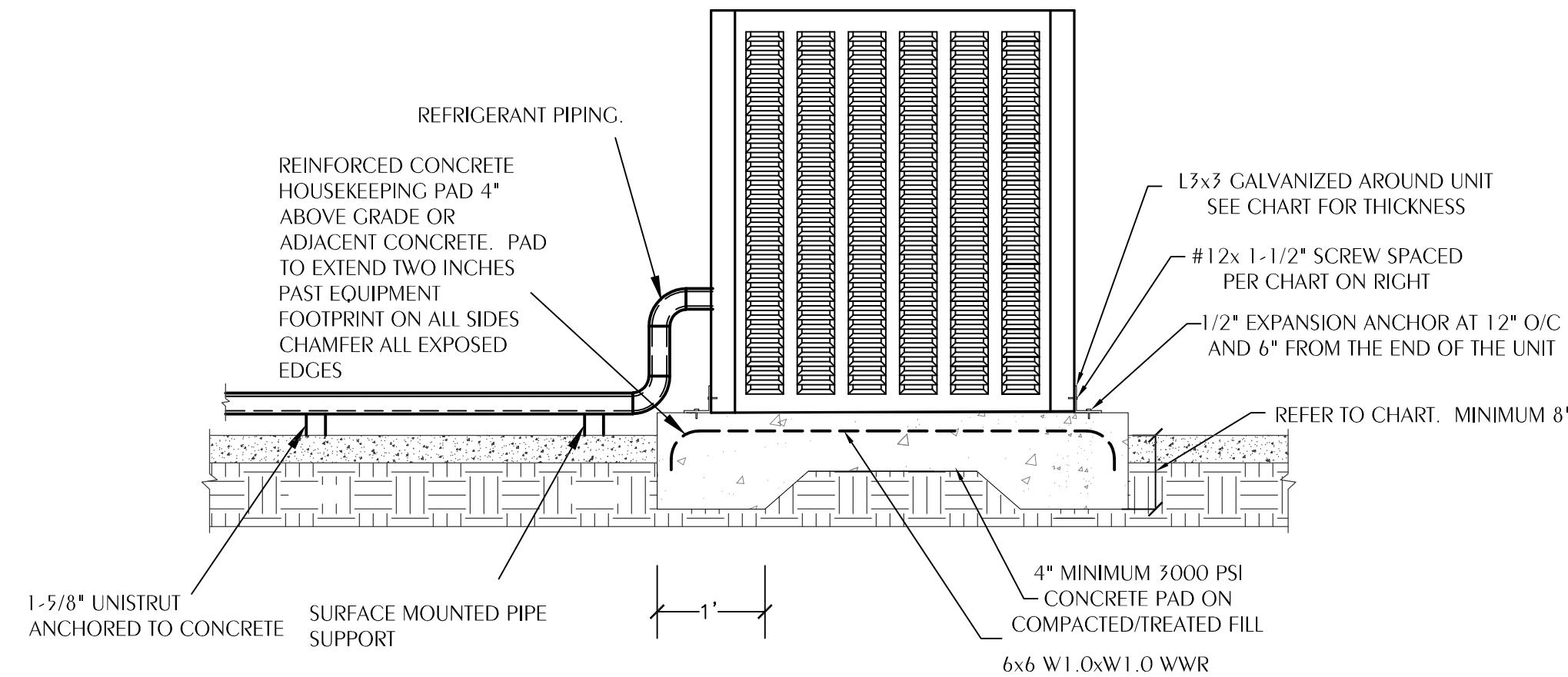
RATING	MIN FLOOR OR WALL THKNS	MAX PIPE DIAM	NOM PIPE COVERING THKNS	ANNULAR SPACE	F-RATING	T
HR						
2-1/2	4	1 OR 1-1/2	1/2 TO 2-3/8	2	2	1
4-1/2	4	2	1/4 TO 3-5/8	2	2	1-1/2
2-1/2	12	1	1/2 TO 1-1/2	2	2	1/2
4-1/2	12	1	1/2 TO 2-3/8	3	3	1
2-1/2	12	1/2	1/2 TO 2-3/8	2	2	0

MINNESOTA MINING & MFG. CO.—CP 25WB+.

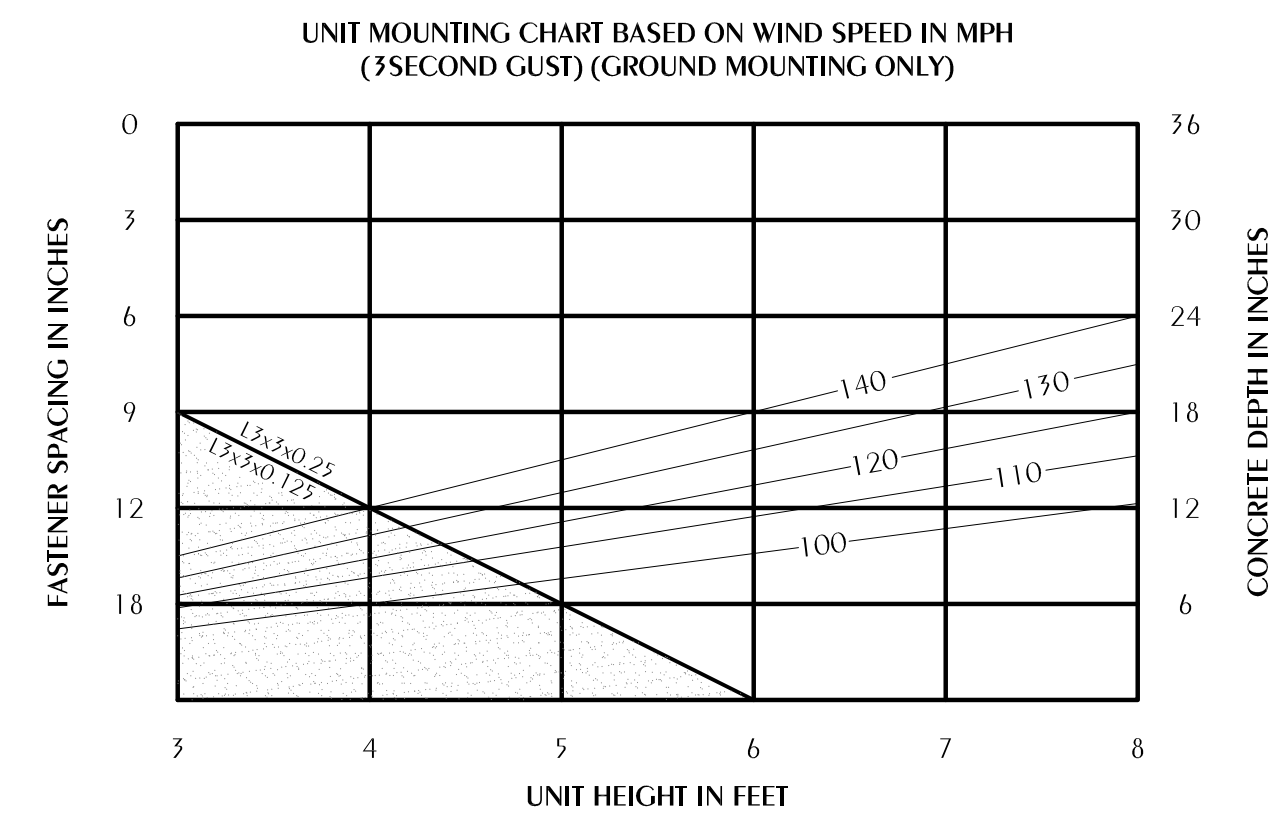
*BEARING THE UL CLASSIFICATION MARKING



4 VERTICAL UPFLOW AHU DETAIL
M-2.2 SCALE: NONE

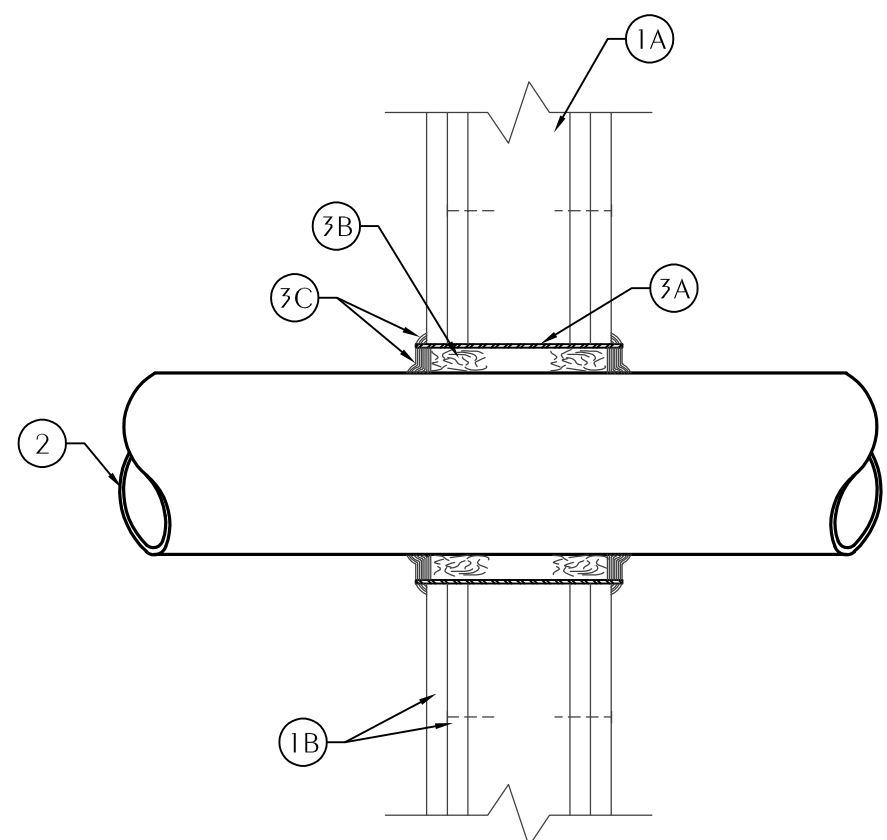


5 TYPICAL OUTDOOR MECHANICAL UNIT MOUNTING DETAIL
M-2.2 SCALE: NONE



DESIGN CRITERIA:

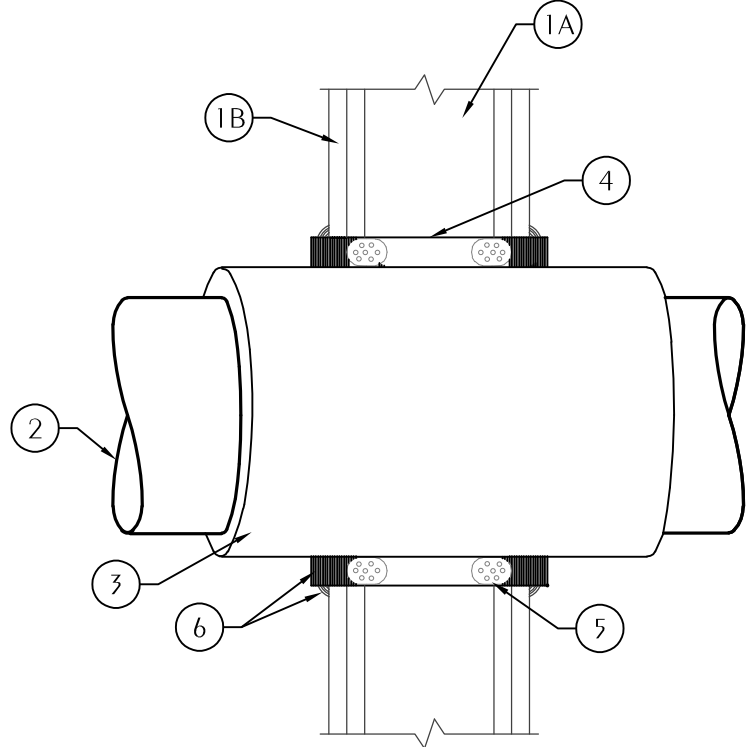
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VELOCITY: SEE BELOW
Kz: 0.70
Kzt: 1.00
Kd: 0.85
IMPORTANCE: 1.15
EXPOSURE: B
Cf: 1.3
Gf: 0.85
qs:
100 mph 17.92 psf
110 mph 21.20 psf
120 mph 25.22 psf
130 mph 29.60 psf
140 mph 34.33 psf
Pdesig:
100 mph 19.36 psf
110 mph 23.42 psf
120 mph 27.87 psf
130 mph 32.71 psf
140 mph 37.94 psf



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UL SYSTEM WL1003

- 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:
 - 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.
 - 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.
- 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:
 - STEEL PIPE**—NOM 1/2 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE**—NOM 1/2 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 1/2 IN. DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT**—NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER TUBING**—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- COPPER PIPE**—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FIRESTOP SYSTEM**—INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - 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.
 - 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.
 - 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.
 - 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.

*BEARING THE UL CLASSIFICATION MARKING



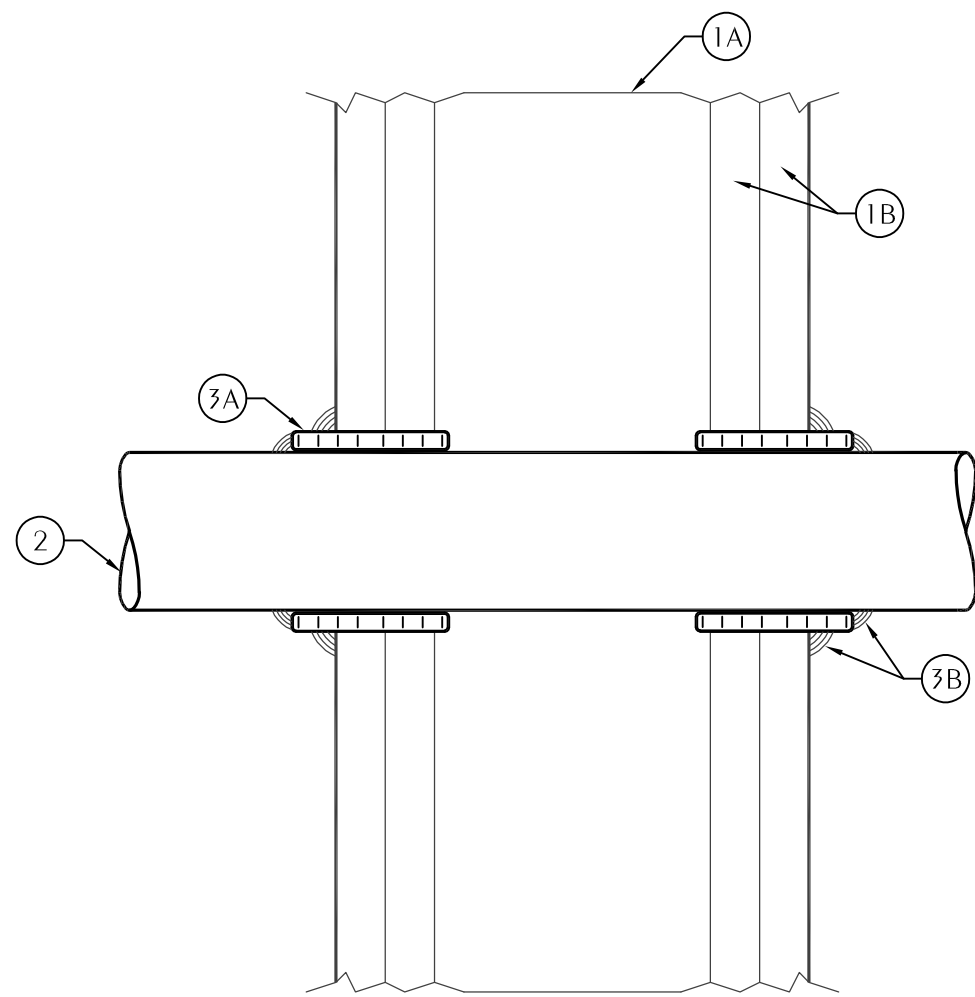
CONSULT CURRENT UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY" FOR DETAILS
UL SYSTEM WL5011

- WALL ASSEMBLY**—THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALLASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - 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 DEEP CHANNELS SPACED MAX 24 IN. OC.
 - 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 14-1/2 IN. FOR WOOD STUD WALLS AND 17 IN. FOR STEEL STUD WALLS.
- THROUGH PENETRANTS**—ONE METALLIC 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:
 - STEEL PIPE**—NOM 1/2 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. WHEN STEEL PIPE IS USED, T RATING IS 1 HR.
 - CONDUIT**—NOM 3 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. WHEN STEEL CONDUIT IS USED, T RATING IS 1/4 HR.
 - COPPER TUBING**—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. WHEN COPPER TUBING IS USED, T RATING IS 1/2 AND 1 HR WHEN INSTALLED IN 1 AND 2 HR RATED WALLS, RESPECTIVELY.
 - COPPER PIPE**—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. WHEN COPPER PIPE IS USED, T RATING IS 1/2 AND 1 HR WHEN INSTALLED IN 1 AND 2 HR RATED WALLS, RESPECTIVELY.
- PIPE COVERING**—NOM 1 OR 1-1/2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) CLASS FIBER UNITS JACKED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORYAPPLIED SELF-SEALING LAP TAPE.

TRANSVERSE JOINTS SEALED WITH METAL FASTENER STRIP TAPE SUPPLIED WITH THE PRODUCT.

SEE PIPE AND EQUIPMENT COVERINGS—MATERIALS—(BRCU) 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.

*MINNESOTA MINING & MFG. CO.—CP 25WB+
*BEARING THE UL CLASSIFICATION MARKING



CONSULT CURRENT UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY" FOR DETAILS
UL SYSTEM WL2003

- 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:
 - 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.
 - 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.
- THROUGH PENETRANTS**—ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED IN THE 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:
 - 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.
 - RIGID NONMETALLIC CONDUIT+**—NOM 4 IN. DIAM (OR SMALLER) (SCHEDULE 40 OR 80) PVC CONDUIT INSTALLED IN ACCORDANCE WITH ARTICLE 314.7 OF THE NATIONAL ELECTRIC CODE (NFPA NO. 70).
 - 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.
 - 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.
- 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.
- 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.
- 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:
 - 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.
 - 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.
 - 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

1 TYPICAL FIRE RATED WALL PENETRATION

SCALE: NONE

BARE METALLIC PIPE

2 TYPICAL FIRE RATED WALL PENETRATION

SCALE: NONE

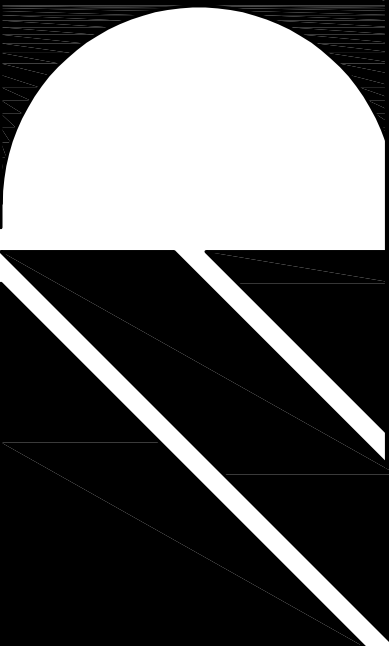
INSULATED METALLIC PIPE

3 TYPICAL FIRE RATED WALL PENETRATION

SCALE: NONE

BARE PLASTIC PIPE 2" DIAMETER OR SMALLER

NOTE: ALL SYSTEMS DETAILED ON MECHANICAL PENETRATIONS SHEETS ARE BASED ON THE MANUFACTURERS SPECIFIED AS BASIS OF DESIGN AND APPLY TO MECHANICAL, FIRE PROTECTION, 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.



ELECTRICAL GENERAL NOTES

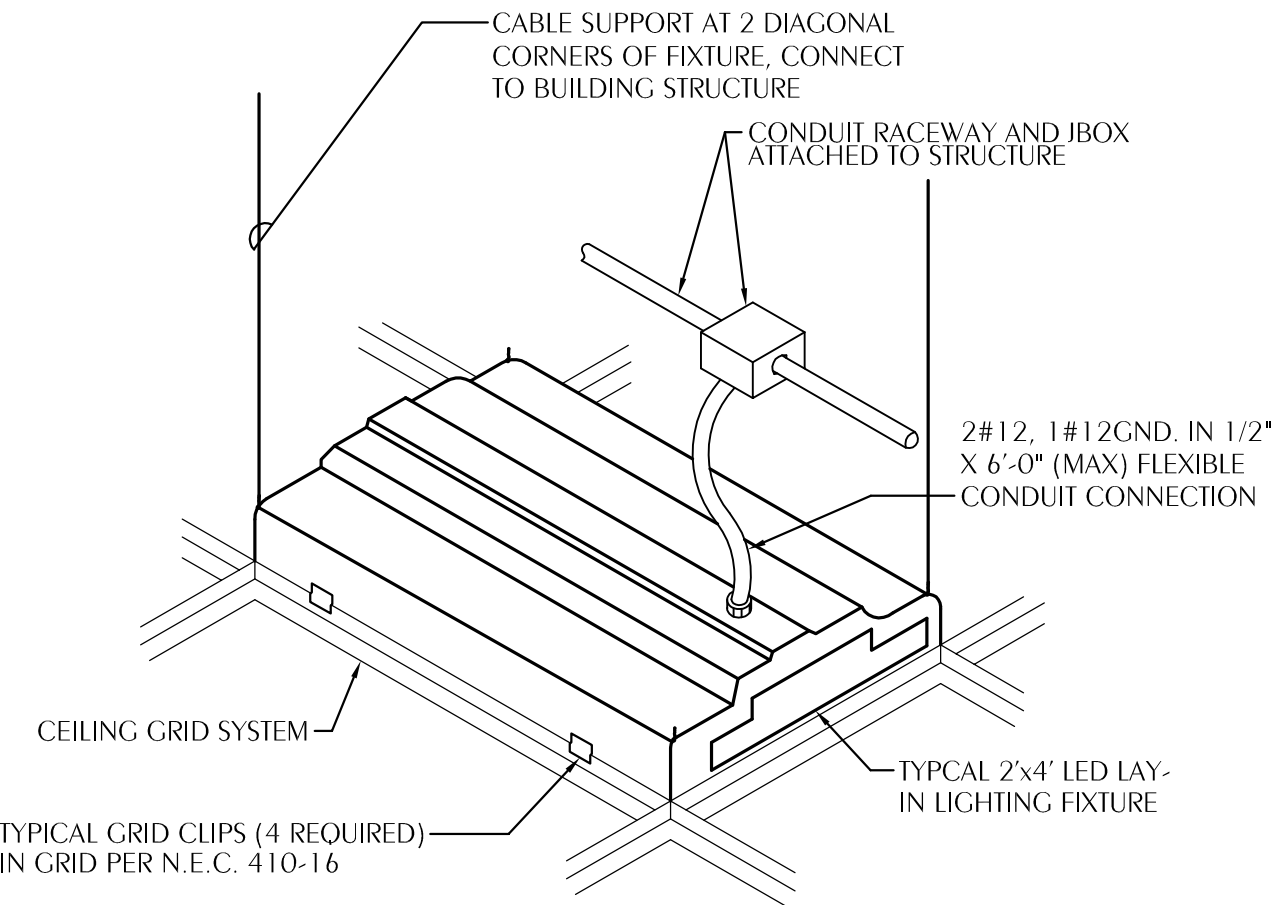
1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO A/V DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'A/V' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. 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.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL 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.
9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC 8TH EDITION, OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
11. OBTAIN ARCHITECTS/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
12. TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75deg C PER NEC 2011 ART. 110.14 & TABLE 310.15(B)(16).
13. WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

EQUALS TO BE SUBMITTED TO ARCHITECT/ENGINEER 10 DAYS PRIOR TO SUBMITTING BID FOR APPROVAL.

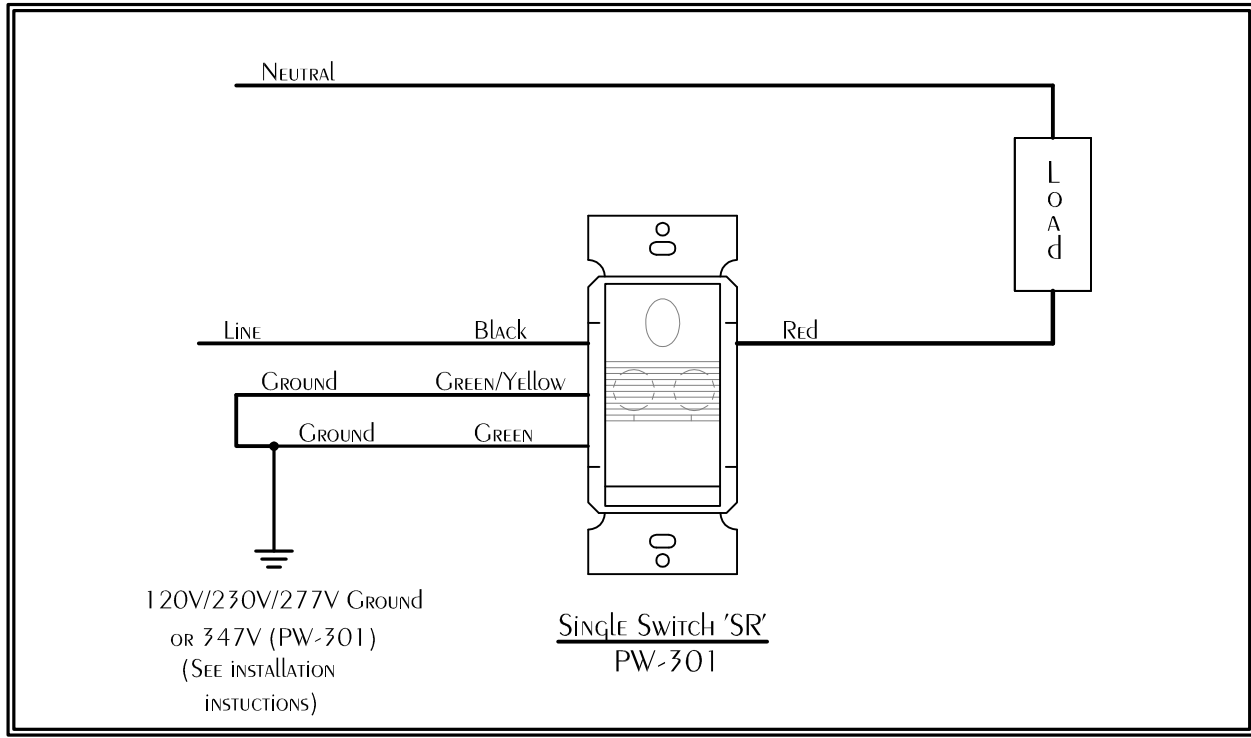
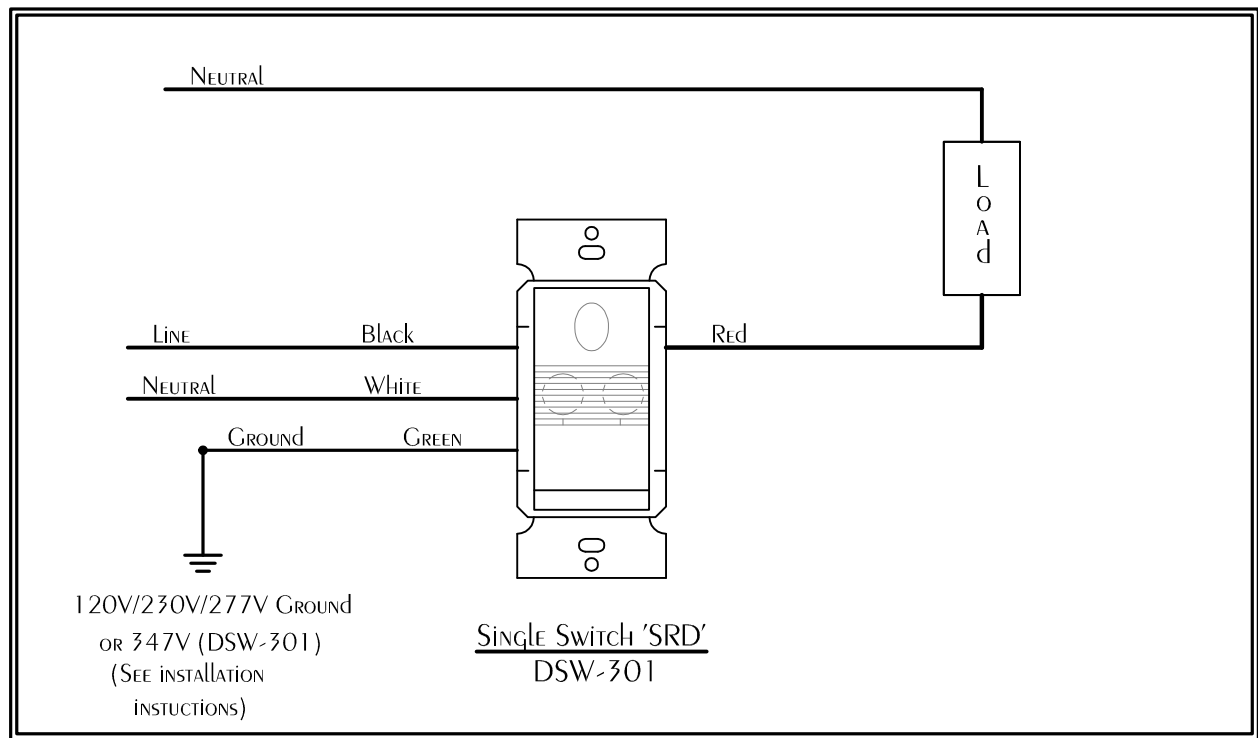
LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
BP	CHLORIDE CLU2NW	2	15 W LED	WALL @ 7'-6" AFF	120V
BPX BPXA	CHLORIDE CLCNRW	--	LED	WALL @ 7'-6" AFF	BATTERY PACK/EXIT SIGN COMBO, SELF-DIAGNOSTICS, 120V, USE PUNCH-OUTS TO SHOW DIRECTIONAL ARROWS AS DENOTED ON DRAWING(S).
LSH	H.E. WILLIAMS #CS-4-L240-840-MD-(L120)-CS-HUB MT-DIM-UNV	104W	4000K LED	PENDANT MOUNT	4' LED, MODULAR HIGH BAY, STD 0-10V DIMMING, 120 V, w/ CUSTOM L120 DRIVER
LFPA	H.E. WILLIAMS #BP-24-LS(3536L)/8CS(4000K)-DIM-UNV	28W	4000K LED	CEILING LAY-IN	2'X4' LED FLAT PANEL, STD 0-10V DIMMING, UNV VOLT
LFPB	H.E. WILLIAMS #BP-24-LS(4677L)/8CS(4000K)-DIM-UNV	38W	4000K LED	CEILING LAY-IN	2'X4' LED FLAT PANEL, STD 0-10V DIMMING, UNV VOLT
LS4	H.E. WILLIAMS #76R-4-LS2-840-DIM-UNV	36W	4000K LED	SURFACE MOUNTED	4' HIGH OUTPUT LED STRIP, 4000K, UNV
LSS	H.E. WILLIAMS 75-4-LS0-835-7511-DRV-UNV-VBY(HANGARS)	44W	4000K LED	SUSPENDED	4' HIGH OUTPUT LED STRIP, 4000K, UNV, EC TO FURNISH CHAIN, FLD-CUT FOR DESIRED HEIGHT
SH	H.E. WILLIAMS #6DR-TL-L20-840-DIM-UNV-SW-OF-WH-AD-N-FL-WET/CC	20W	4000K LED	CEILING-RECESSED	6" RECESSED DOWNLIGHT, STD 0-10V DIMMING, WET LOCATION LISTED, 120V.
SL	BOCK LIGHTING #5N614-LVEV1-3000-40K-GN48B-BCW6 (4000K)	26W	4000K LED	WALL MOUNT	14" STEP NECK ANGLE, EXTERIOR LIGHT, FINISH BY ARCH, 120V
WB36E	H.E. WILLIAMS #VWPH-L30-740-T3-SDGL-DIM-UNV	36W	4000K LED	WALL MOUNT	EXTERIOR WALLPACK, FINISH BY ARCH, 120V
WB70	H.E. WILLIAMS VWPH-L60-740-TFT-CGL-DIM-UNV	70W	4000K LED	WALL MOUNT	EXTERIOR WALLPACK, FINISH BY ARCH, 120V
WB70E	H.E. WILLIAMS VWPH-L60-740-TFT-CGL-EM/10WC-DIM-UNV	70W	4000K LED	WALL MOUNT	EXTERIOR WALL SCONCE, FINISH BY ARCH, EMERGENCY DRIVER, 120V
XXA	CHLORIDE# CXXL-3-R-W	1	LED	WALL MOUNT	THERMOPLASTIC LED EXIT SIGN, SELF-DIAGNOSTICS, 120V

FIXTURE FINISH SELECTIONS TO BE VERIFIED WITH ARCHITECT PRIOR TO ORDERING.



1 TYPICAL LAY-IN FIXTURE DETAIL
E-0.1 SCALE: N.T.S.

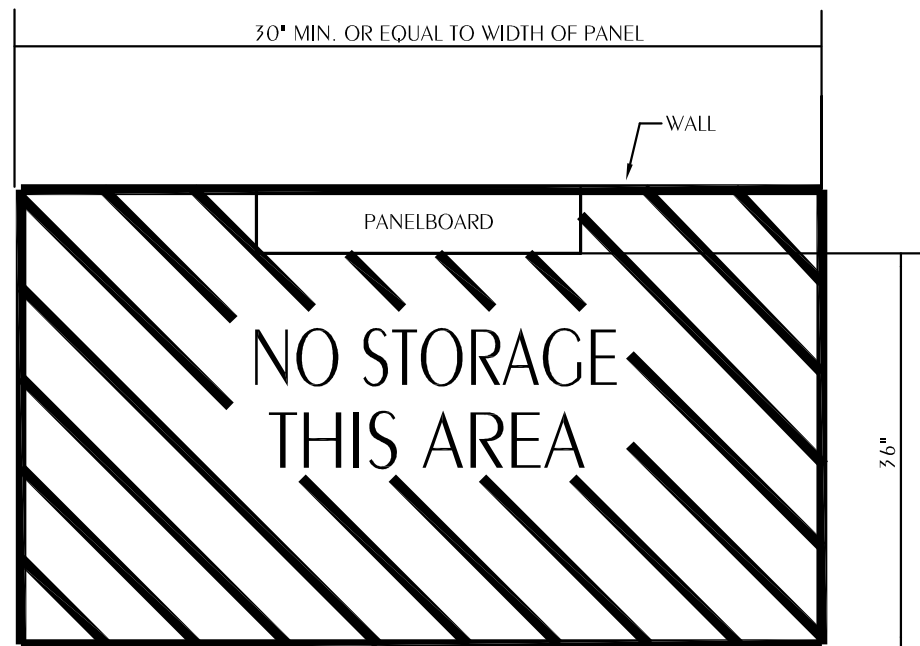


ELECTRICAL LEGEND

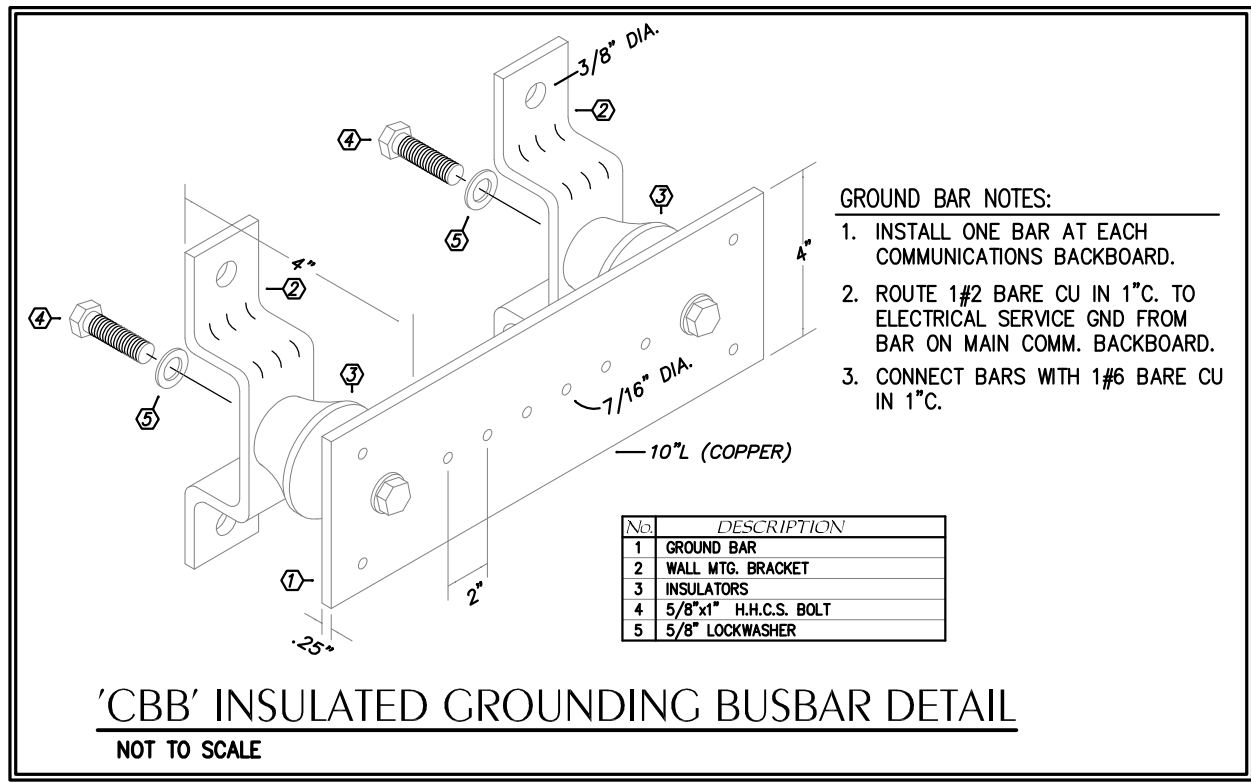
- CEILING OUTLETS**
- RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT TYPICAL
- RECESSED 2' X 4' LED FIXTURE INSTALLED FOR CONTINUOUS OPERATION
- INDICATES FIXTURE WITH EMERGENCY UNIT BATTERY PACK
- SURFACE MOUNTED, RECESSED OR SUSPENDED LED FIXTURE MARK "A" AS NOTED
- SURFACE MOUNTED LED STRIP FIXTURE MARK "FS" AS NOTED
- EXIT LIGHT
- JUNCTION BOX
- RECESSED/SURFACE MOUNT LIGHT
- RECESSED/SURFACE MOUNT LIGHT INSTALLED FOR CONTINUOUS OPERATION
- EXHAUST FAN
- PANELS AND POWER**
- 120/240 VOLT PANELBOARD
- EXISTING 120/240 VOLT PANELBOARD
- NON-FUSIBLE DISCONNECT SWITCH: XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)**
- A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT; MOUNT 48" AFF TO C/L
- A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT; MOUNT 48" AFF TO C/L
- A.C. TYPE, 4-WAY, 20 AMP, 120/277 VOLT; MOUNT 48" AFF TO C/L
- MOTOR-RATED TOGGLE SWITCH, FIELD-VERIFY EXACT HT & LOCATION WITH EQUIPMENT INSTALLER
- WALL MOUNTED OCCUPANCY SENSOR (PASSIVE INFRARED) EQUAL TO WATSTOPPER PW-301; SET DELAY OFF-TIME FOR 10 MINUTES (120/277V); MOUNT 48" AFF TO C/L
- WALL MOUNTED OCCUPANCY SENSOR EQUAL TO WATSTOPPER DSW-301; DUAL TECHNOLOGY; MOUNT 48" AFF TO C/L; SET DELAY OFF-TIME FOR 10 MINUTES (120/277V)
- FIRE ALARM SYSTEM**
- FIRE ALARM SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L
- FIRE ALARM SYSTEM SIGNAL HORN/STROBE; MT 80" AFF TO BOTTOM
- WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN; MOUNT 80" AFF TO BOTTOM
- FIRE ALARM SYSTEM STROBE; MT, 80" AFF TO BOTTOM
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- FIRE ALARM SYSTEM RACEWAY INSTALLED CONCEALED; ARROW INDICATES HOMERUN TO FIRE ALARM CONTROL PANEL
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN SUPPLY AIR DUCT
- FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT
- NORMALLY CLOSED RELAY IN H.V.A.C. CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS.
- REMOTE INDICATOR LIGHT; FIELD-VERIFY EXACT LOCATION OF INSTALLATION
- FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS, WHERE APPLICABLE, EC TO PROVIDE 120V POWER AT DEVICE
- FIRE ALARM SYSTEM FLOW SWITCH
- FIRE ALARM SYSTEM TAMPER SWITCH

- AUTOMATIC LIGHTING CONTROL SYSTEM**
- 180° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATSTOPPER DT-205 (LOW VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 2000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- 360° CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATSTOPPER DT-355 (LINE VOLTAGE); DUAL TECHNOLOGY INFRARED AND ULTRASONIC, 1000 SQ FT COVERAGE; SEE CEILING MOUNTED MOTION DETECTOR DETAIL
- POWER PACK RELAY EQUAL TO WATSTOPPER BZ-50 POWER PACK; SEE CEILING MOUNTED MOTION DETECTOR DEVICE TO BE MOUNTED ABOVE CEILING. (UNIVERSAL 100-277V); 20 AMP MAX. SWITCHING CAPABILITY CAPABILITY
- BRANCH CIRCUITING**
- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2#12, 1#12 GROUND-3/4"C. - 3 #12, 1 #12 GROUND - 3/4" C. - 4#12, 1 #12 GROUND - 3/4" C. ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- TELEPHONE & TV SYSTEM**
- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 18" A.F.F. TO C/L OF DEVICE U.N.O.; INSTALL 3/4"C TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 6" ABOVE COUNTER TO C/L OF DEVICE U.N.O.; INSTALL 3/4"C TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX @ 6" HORIZONTALLY ABOVE COUNTER TO C/L OF DEVICE; INSTALL 3/4"C TO ACCESSIBLE LOCATION ABOVE CEILING; COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC.
- 3/4" (60" HIGH) TELEPHONE BACKBOARD EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN
- TELEVISION CABLE WALL OUTLET - 4" SQ X 2-1/8" DEEP BOX; INSTALL 3/4"C TO ACCESSIBLE LOCATION ABOVE CEILING. COMMUNICATIONS CONTRACTOR SHALL PROVIDE COVERPLATES, INSERTS, ETC...MOUNT 18" A.F.F. TO C/L OF DEVICE U.N.O.
- WALL OUTLETS**
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. TAMPER RESISTANT
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
- DUPLEX WEATHER-RESISTANT (WR) RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE. DEVICE MUST COMPLY WITH NEC 406.9
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT FLUSH IN CEILING
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ADJACENT TO TELEVISION OUTLET AT SAME HEIGHT.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER, HORIZONTALLY
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN; HOMERUN TO BE TERMINATED ON GFCI BREAKER PER NEC 210.8
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- 240V RECEPTACLE - MOUNT 18" AFF UNLESS NOTED OTHERWISE; VERIFY TYPE REQUIRED WITH EQUIPMENT FURNISHED
- JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED JUNCTION BOX WITH BLANK SCREW COVER (UNLESS DEVICE SHOWN TO BE INSTALLED); SIZE OF BOX TO BE DETERMINED BY DEVICE BEING INSTALLED
- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED HIGH INTENSITY DISCHARGE FIXTURE
- WALL MOUNTED EMERGENCY UNIT BATTERY PACK
- WALL MOUNTED EXIT LIGHT/BATTERY PACK COMBO FIXTURE
- SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE, LABEL "COMPUTER USE ONLY"

- MISCELLANEOUS**
- A.F.F. ABOVE FINISH FLOOR
- B.F.C. BELOW FINISHED CEILING
- e EXISTING



2 TYPICAL CLEARANCE AT ELECTRICAL PANELS
E-0.1 SCALE: N.T.S.



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Project Number: 2025-009
Checked By: ALD
Drawn By: EMU



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SHEET ELECTRICAL LEGEND, GENERAL NOTES & DETAILS

NEW FIRE STATION

FOR THE: GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12

DATE: AUG 13, 2025

DRAWN BY: EMU

CHECKED BY: ALD

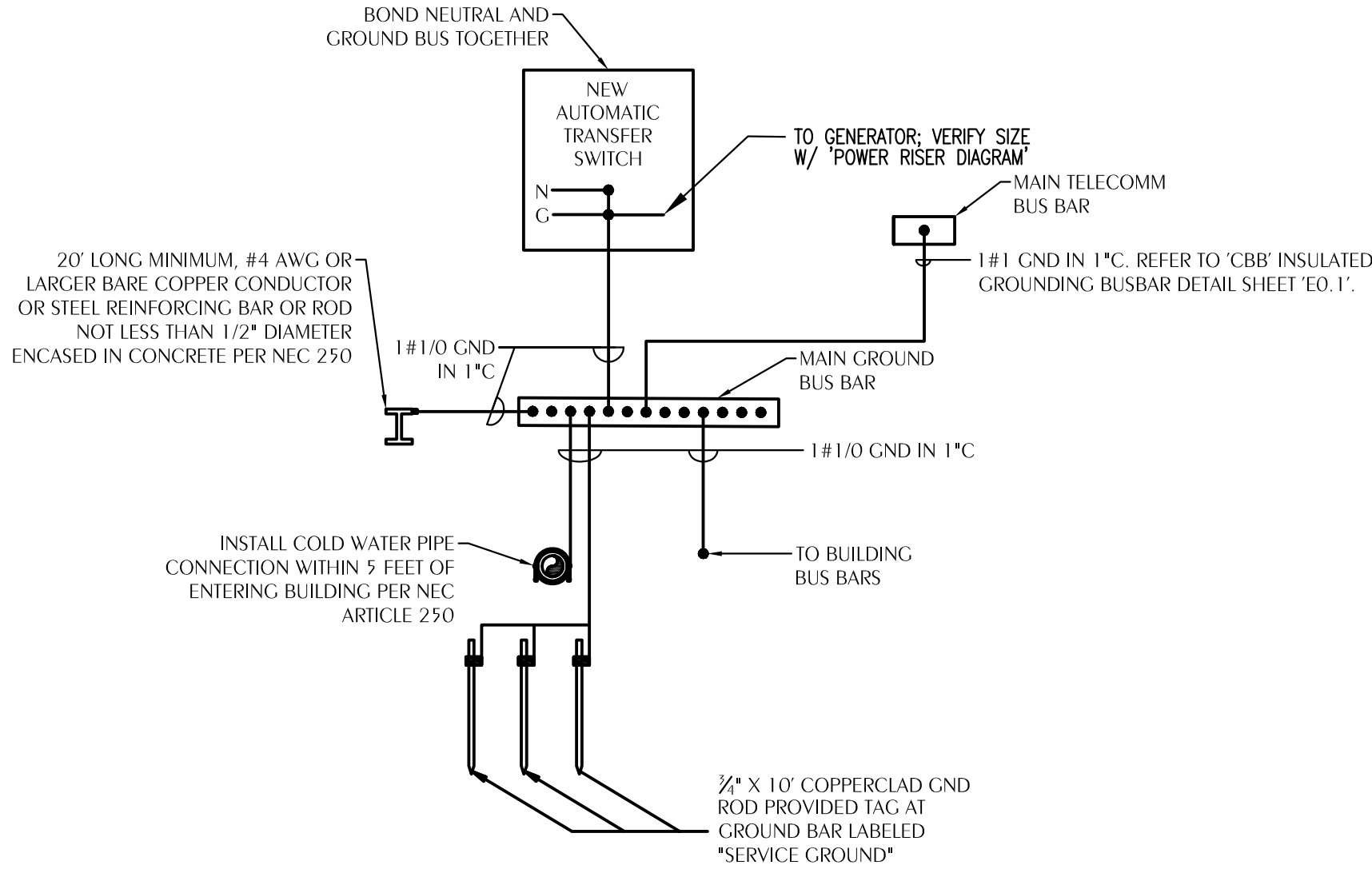
SHEET No.

E-0.1

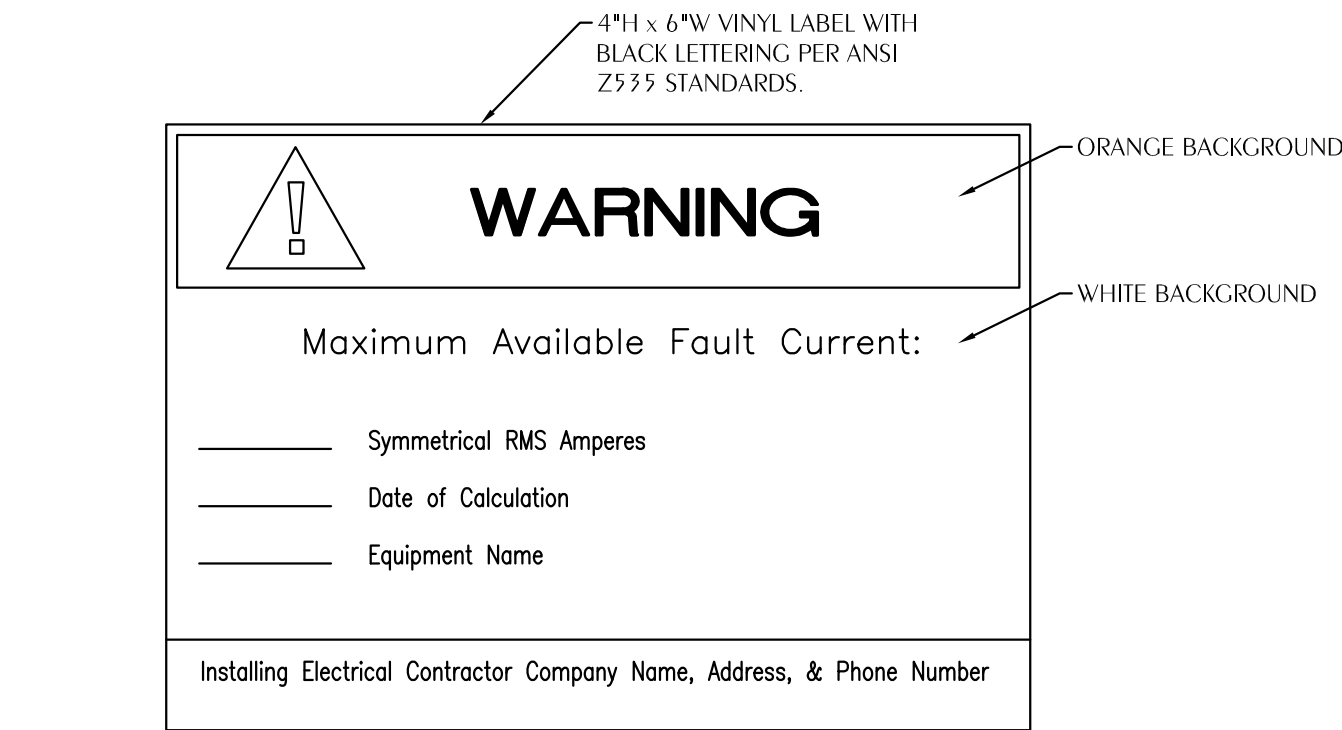
120/240 VOLT 1Ø 3W 400 AMP MAIN LUG ONLY SERVICE-RATED														SURFACE MOUNTED NEMA 1 ENCLOSURE	
CIRCUIT BREAKER PANEL SCHEDULE															
PANEL 'MP'															
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT						
		POLE	AMP			AMP	POLE								
1	EF-2	1	20	1.18	1.18	20	1	MOTORIZED DOOR OPERATOR	2						
3	LTS-SIGNAGE	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	4						
5	CORD-N-REEL	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	6						
7	CORD-N-REEL	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	8						
9	CORD-N-REEL	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	10						
11	CORD-N-REEL	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	12						
13	CORD-N-REEL	1	20	0.50	1.18	20	1	MOTORIZED DOOR OPERATOR	14						
15	IRH-1	1	15	0.22	1.18	20	1	MOTORIZED DOOR OPERATOR	16						
17	IRH-2	1	15	0.22	1.18	20	1	MOTORIZED DOOR OPERATOR	18						
19	IRH-3	1	15	0.22	1.18	20	1	MOTORIZED DOOR OPERATOR	20						
21	IRH-4	1	15	0.22	0.54	20	1	APPARATUS BAYS/EXTERIOR	22						
23	IRH-5	1	15	0.22	0.54	20	1	APPARATUS BAYS/EXTERIOR	24						
25	IRH-6	1	15	0.22	0.90	20	1	APPARATUS BAYS/EXTERIOR	26						
27	CBB	1	20	0.36	0.90	20	1	APPARATUS BAYS/EXTERIOR	28						
29	CBB	1	20	0.36	0.90	20	1	APPARATUS BAYS/EXTERIOR	30						
31	LTS-APPARATUS BAYS-ZONE B	1	20	1.00	0.90	20	1	APPARATUS BAYS/EXTERIOR	32						
33	LTS-APPARATUS BAYS-ZONE A	1	20	1.00	0.90	20	1	APPARATUS BAYS/EXTERIOR	34						
35	LTS-EXTERIOR	1	20	1.00	0.54	20	1	APPARATUS BAYS/EXTERIOR	36						
37	EWI-1	2	50	9.00	0.2	20	1	GENERATOR BATTERY CHARGER	38						
39	↓	↓	↓	↓	1.5	↓	↓	GENERATOR BLOCK HEATER	40						
41	RANGE	2	50	9.00	--	20	1	SPARE	42						
43	↓	↓	↓	↓	↓	↓	↓	↓	44						
45	SPACE	1	--	↓	↓	↓	↓	↓	46						
47	↓	1	--	↓	↓	↓	↓	↓	48						
49	↓	↓	↓	↓	↓	↓	↓	↓	50						
51	PANEL 'LP'	2	200	41.33	--	30	2	SURGE SUPPRESSOR	52						
53	↓	↓	↓	↓	↓	↓	↓	↓	54						
TOTAL CONNECTED LOAD- 87.00 KVA MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL										① HACR RATED BREAKER- VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED ② FURNISH GFCI BREAKER					

120/240 VOLT 1Ø 3W 225 AMP MAIN LUG ONLY														CIRCUIT BREAKER PANEL SCHEDULE PANEL 'LP'		SURFACE MOUNTED NEMA 1 ENCLOSURE	
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT								
		POLE	AMP			AMP	POLE										
1	LTS-INTERIOR	1	20	1.00	0.54	20	1	REC-BUNKER GEAR STORAGE 108	2								
3	FACP	1	20	0.20	0.90	20	1	REC-MEETING ROOM/EXTERIOR	4								
5	HP-1	2	30	3.65	0.54	20	1	REC-MEETING ROOM	6								
7	↓	2	1		0.72	20	1	REC-STORAGE/MECH/EXTERIOR	8								
9	HP-2	2	30	3.65	0.56	20	1	REC-COMMON ROOM/RESTROOM	10								
11	↓				0.90	20	1	REC-COMMON ROOM	12								
13	AHU-1	2	25	4.80	0.72	20	1	REC-COMMON ROOM	14								
15	↓				1.08	20	1	REC-OFFICE	16								
17	AHU-2	2	25	4.80	1.26	20	1	REC-OFFICE	18								
19	↓				0.36	20	1	REC-KITCHEN	20								
21	CP-1	1	20	0.05	0.56	20	1	REC-KITCHEN	22								
23	FUTURE FC20 GEAR DRYING CABINET	2	70	12.00	0.18	20	1	REC-KITCHEN	24								
25	↓				0.50	20	1	REFRIGERATOR	26								
27	FUTURE EXTRACTOR	2	15	2.12	0.64	20	1	RANCE HOOD	28								
29	↓				-	20	1	SPARE	30								
31	FUTURE ICE MAKER	1	20	-	-				32								
33	SPACE	1	-	-	-				34								
35	↓								36								
37	↓								38								
39	↓								40								
41	↓								42								
43	↓								44								
45	↓								46								
47	↓						1	SPACE	48								
49	↓								50								
51	↓								52								
53	↓								54								
TOTAL CONNECTED LOAD- 41.33 KVA MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL										① HACR RATED BREAKER- VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED ② FURNISH GFCI BREAKER ③ FURNISH BREAKER WITH HANDLE 'LOCK-ON' CAPABILITIES ③ FURNISH BREAKER WITH HANDLE 'LOCK-OFF' CAPABILITIES							

NOTE(S) TO ELECTRICAL CONTRACTOR:
IN APPARATUS BAY AREA, ALL ELECTRICAL DEVICES (LIGHTING, RECEPTACLES, DISCONNECTS, JUNCTION BOXES, SWITCHES, ETC.) ARE TO BE INSTALLED AT A MINIMUM OF 24" A.F.F.. EC TO ENSURE THE INSTALLATION IS COMPLIANT WITH NEC 511. ATTENTION SHOULD BE MADE TO AVOID INSTALLATION OF RECEPTACLES, DISCONNECTS, J-BOXES, SWITCHES, PANELS, LIGHTING, ETC. WITHIN THE PANELS, LIGHTING, ETC... WITHIN THESE AREAS. OTHERWISE, DEVICES SUITABLE FOR CLASS I, DIV I/II ENVIRONMENTS (EXPLOSION-PROOF APPARATUS MUST BE INSTALLED). NO GASES LIGHTER THAN AIR TO BE PRESENT IN BUILDING.



2 GROUNDING SYSTEM RISER DIAGRAM
SCALE: N.T.S.

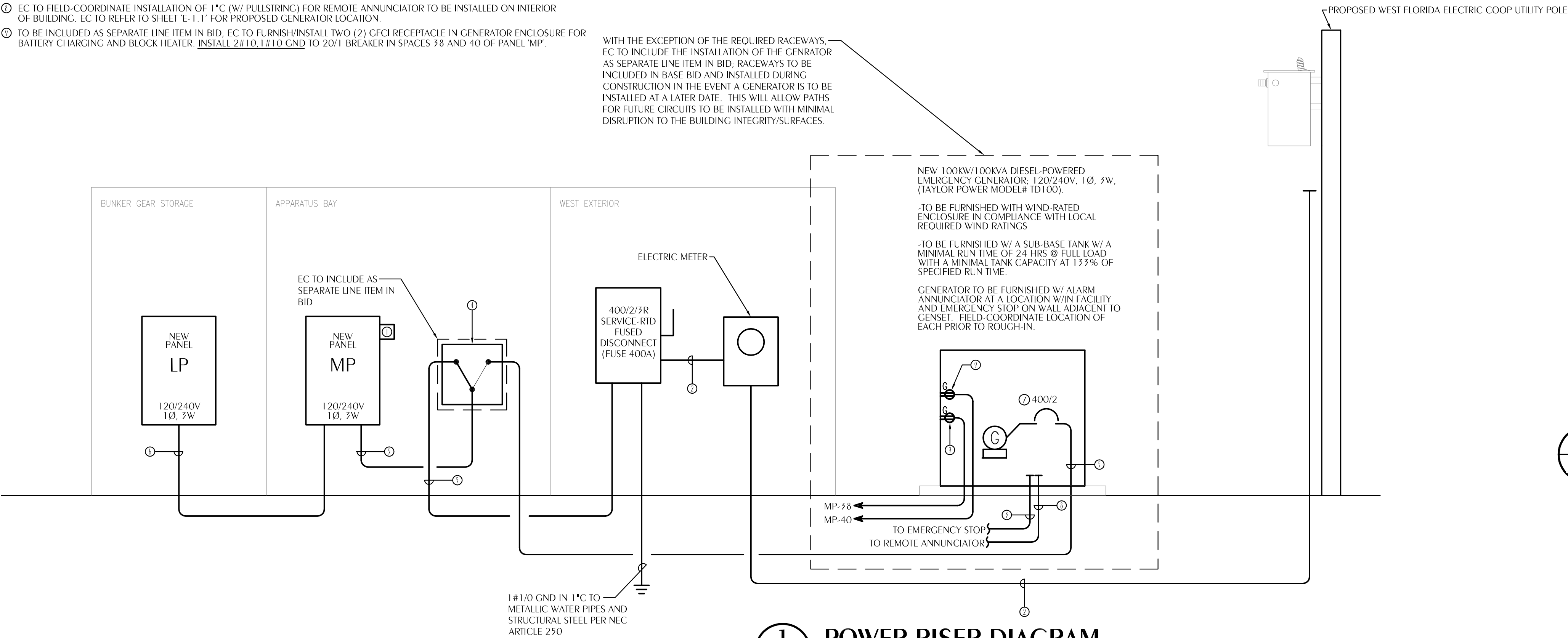


3 TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL
SCALE: N.T.S.

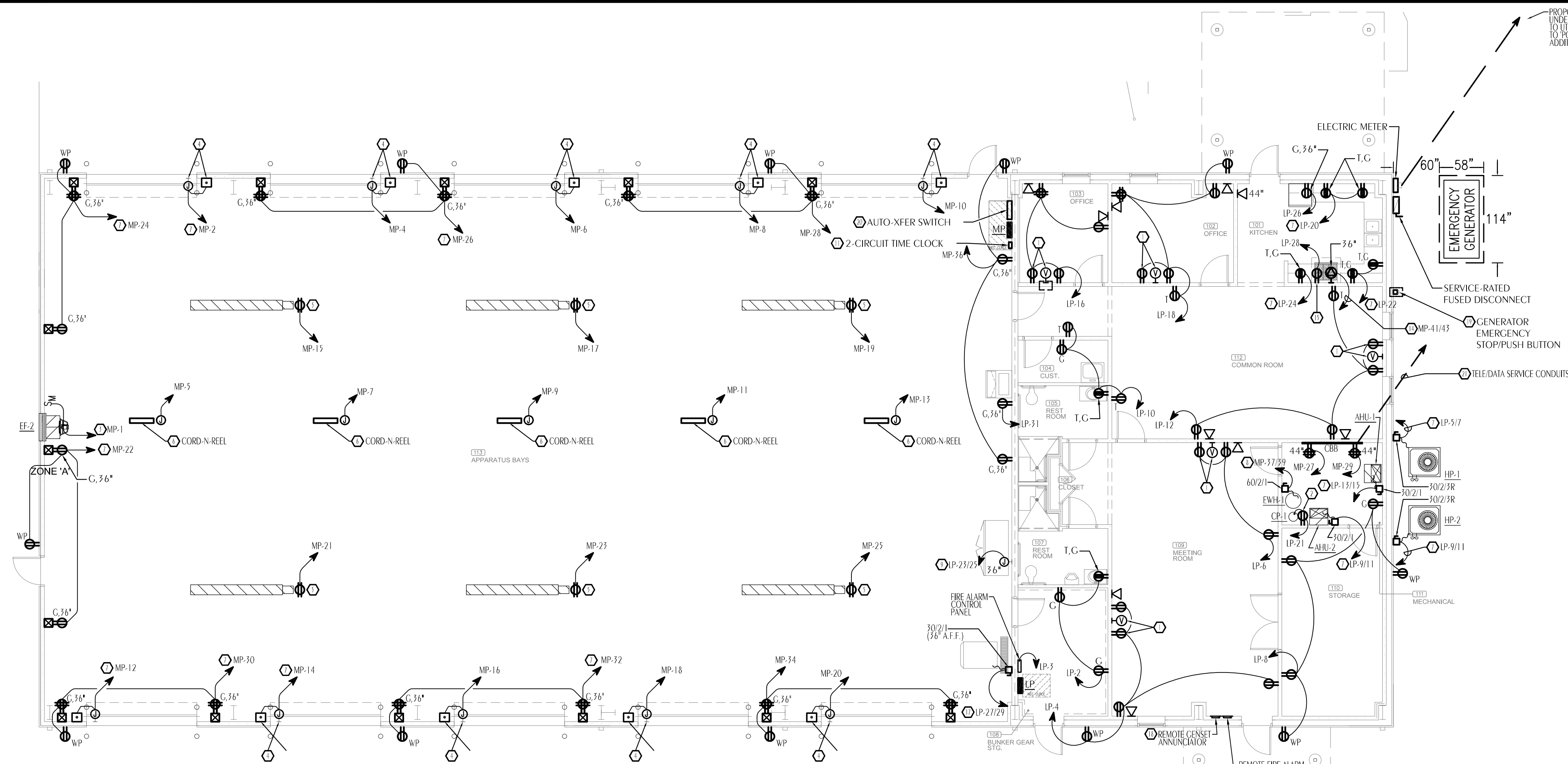
POWER RISER DIAGRAM KEYNOTES:

- ① SURGE SUPPRESSOR - INSTALL PER SPECIFICATIONS
- ② INSTALL 3#500 MCM CU IN 3" C. INCLUDE IN BID AS SEPARATE LINE ITEM IN THE EVENT THE UTILITY FURNISHES/INSTALLS SERVICE. IF UTILITY FURNISHES/INSTALLS SERVICE, DEDUCT THIS LINE ITEM DURING FINAL BILLING.
- ③ EC TO FIELD-COORDINATE INSTALLATION OF 1" C (W/ PULLSTRING) FOR EMERGENCY STOP TO BE INSTALLED ON ADJACENT EXTERIOR WALL OF BUILDING. EC TO REFER TO SHEET 'E-1.1' FOR PROPOSED GENERATOR LOCATION.
- ④ FURNISH/INSTALL 240V, 1-PHASE AUTOMATIC TRANSFER SWITCH IN NEMA 1 ENCLOSURE. SWITCH TO BE EQUIPPED WITH EXERCISER OPTION SO THAT GENERATOR MAY PERFORM ROUTINE BI-WEEKLY TESTING. SWITCH TO HAVE A MINIMUM RATING OF 400 AMPS. (ASCO SERIES 300 OR EQUAL). INCLUDE IN BID AS SEPARATE LINE ITEM IN THE EVENT THE GENERATOR IS NOT TO BE INSTALLED. EC TO FURNISH/INSTALL J-BOX (SIZED ACCORDINGLY). FEEDER FROM DISCONNECT TO PANEL 'MP' TO BE ROUTED VIA J-BOX SO J-BOX MAY BE REPLACED WITH TRANSFER SWITCH AND FEEDER TERMINATED ON BOTH SIDES OF TRANSFER SWITCH.
- ⑤ INSTALL 3#500 MCM CU, 1#3CU GND IN 3-1/2" C.
- ⑥ INSTALL 3#3/0 CU, 1#6CU GND IN 2" C.
- ⑦ GENSET TO BE FURNISHED WITH SERVICE-RATED BREAKER AS SHOWN.
- ⑧ EC TO FIELD-COORDINATE INSTALLATION OF 1" C (W/ PULLSTRING) FOR REMOTE ANNUNCIATOR TO BE INSTALLED ON INTERIOR OF BUILDING. EC TO REFER TO SHEET 'E-1.1' FOR PROPOSED GENERATOR LOCATION.
- ⑨ TO BE INCLUDED AS SEPARATE LINE ITEM IN BID. EC TO FURNISH/INSTALL TWO (2) GFCI RECEPTACLE IN GENERATOR ENCLOSURE FOR BATTERY CHARGING AND BLOCK HEATER. INSTALL 2#10, 1#10 GND TO 2011 BREAKER IN SPACES 38 AND 40 OF PANEL 'MP'.

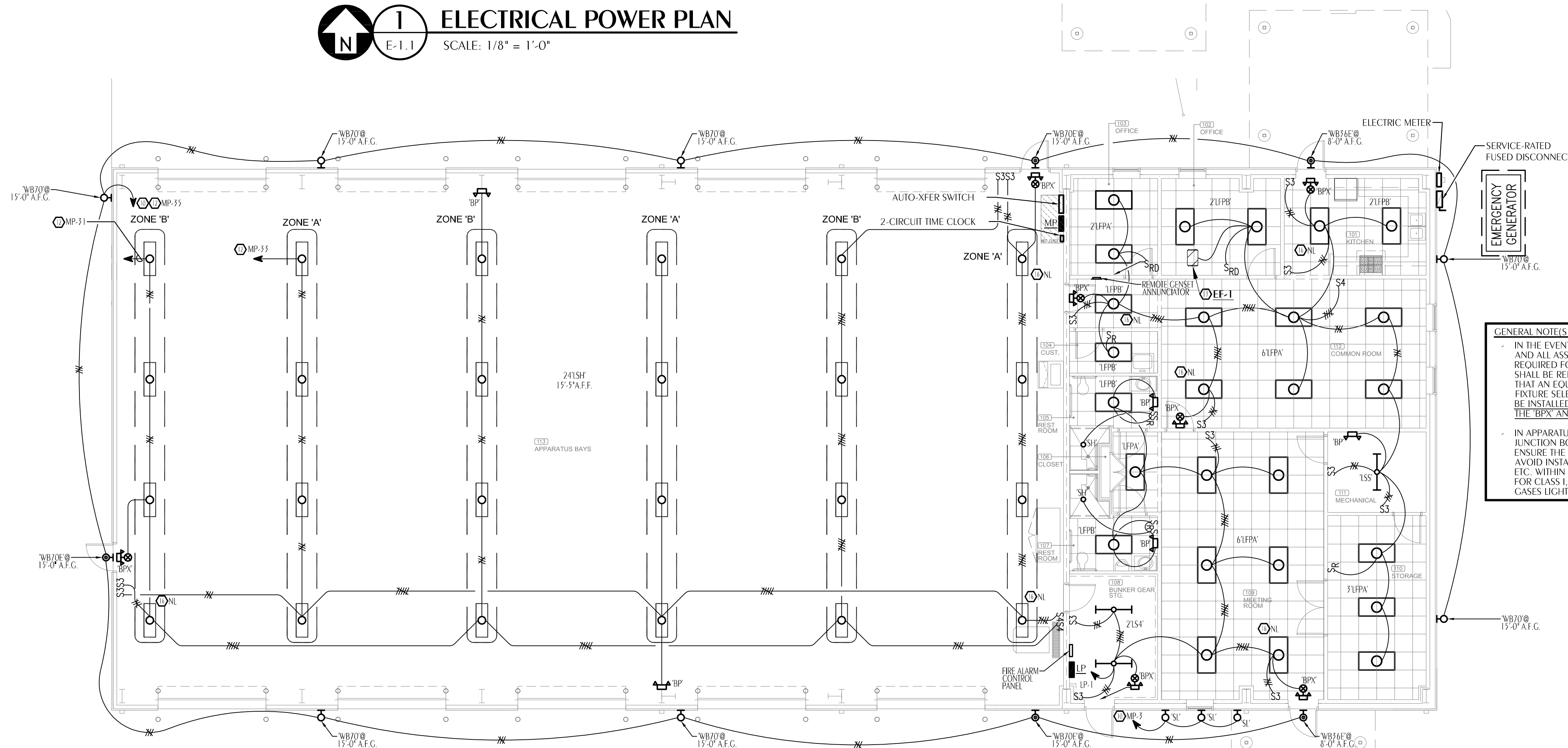
WITH THE EXCEPTION OF THE REQUIRED RACEWAYS, EC TO INCLUDE THE INSTALLATION OF THE GENERATOR AS SEPARATE LINE ITEM IN BID. RACEWAYS TO BE INCLUDED IN BASE BID AND INSTALLED DURING CONSTRUCTION IN THE EVENT A GENERATOR IS TO BE INSTALLED AT A LATER DATE. THIS WILL ALLOW PATHS FOR FUTURE CIRCUITS TO BE INSTALLED WITH MINIMAL DISRUPTION TO THE BUILDING INTEGRITY/SURFACES.



1 POWER RISER DIAGRAM
SCALE: N.T.S.



1 ELECTRICAL POWER PLAN
E-1.1 SCALE: 1/8" = 1'-0"



2 ELECTRICAL LIGHTING PLAN
E-1.1 SCALE: 1/8" = 1'-0"

KEYNOTES

- PRIOR TO ROUGH-IN, EC TO FIELD-VERIFY EXACT LOCATION/HEIGHT OF DEVICES FOR TV WITH GC/AV CONTRACTOR.
- PRIOR TO ROUGH-IN, EC TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT MOUNTING HEIGHT/LOCATION OF DUPLEX RECEPTACLE FOR CIRCULATION PUMP.
- PER MECHANICAL DESIGN, EC SHALL INTERLOCK EXHAUST FAN WITH WALL SWITCH. EC SHALL INSTALL A MOTORIZED TOGGLE SWITCH AND 2#10, 1#10GND IN 3/4" CONDUIT.
- INSTALL JUNCTION BOX ABOVE DOOR AND CONTROL SWITCH ADJACENT TO DOOR FOR MOTORIZED DOOR CONTROLLER. PRIOR TO INSTALLATION, VERIFY EXACT HEIGHT (MIN. OF 48" A.F.F.) AND LOCATION OF EACH DEVICE WITH DOOR INSTALLER IN FIELD.
- EC SHALL INSTALL CEILING MOUNTED RECEPTACLE TO SERVE 'IRH'. FIELD-COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT MOUNTING LOCATION OF DEVICE.
- EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT LOCATION OF CEILING-MOUNTED 1-BOX FOR CORD-N-REEL FOR ENGINE CHARGING. EC TO FURNISH/INSTALL 20A MINIMUM CORD-N-REEL.
- EC SHALL INSTALL 2#10, 1#10 GND IN 3/4" CONDUIT.
- EC SHALL INSTALL 2#8, 1#10 GND IN 3/4" CONDUIT.
- EC SHALL INSTALL 2#4, 1#8 GND IN 1" CONDUIT.
- ROUTE CIRCUIT VIA 2-CIRCUIT TIME CLOCK ADJACENT TO PANEL 'MP'.
- EC TO FURNISH/INSTALL INTERMATIC #ET8215C (OR EQUAL) 2-CIRCUIT ASTRONOMICAL TIME CLOCK.
- TO REDUCE VOLTAGE DROP AND COMPLY WITH NEC, ENTIRE CIRCUIT TO BE A MINIMUM #10CU.
- PER MECHANICAL DESIGN, EXHAUST FAN TO BE FURNISHED WITH INTEGRAL DISCONNECT. EC TO COORDINATE WITH MECHANICAL CONTRACTOR TO INTERLOCK FAN WITH HVAC EQUIPMENT.
- EC SHALL INSTALL 2#8, 1#8GND, 1#10GND IN 3/4" CONDUIT.
- PRIOR TO ROUGH-IN, EC TO FIELD-VERIFY WITH GC THE EXACT HEIGHT/LOCATION OF RECEPTACLE FOR RANGE HOOD.
- FIXTURE TO BE WIRED FOR CONTINUOUS (NON-SWITCHED) OPERATION.
- EC SHALL INSTALL 2#12, 1#12GND IN 3/4" CONDUIT.
- IN THE EVENT THE GENERATOR IS NOT INSTALLED, EC TO INSTALL RECESSED JUNCTION BOX AND 1" C (TO ACCESSIBLE LOCATION ABOVE CEILING) FOR FUTURE INSTALLATION OF GENSET ANNUNCIATOR. SEE 'ELECTRICAL SITE PLAN, ON SHEET 'E-2.0', AND 'POWER RISER DIAGRAM', ON SHEET 'E-0.2', FOR MORE INFORMATION.
- IN THE EVENT THE GENERATOR IS NOT INSTALLED, EC TO INSTALL SURFACE MOUNTED JUNCTION BOX FOR FUTURE INSTALLATION OF AUTOMATIC TRANSFER SWITCH. EC TO ENSURE JUNCTION BOX IS SIZED TO ACCOMMODATE SERVICE ENTRANCE FELLER (SEE 'POWER RISER DIAGRAM') FOR FUTURE EMERGENCY GENERATOR. SERVICE TO BE ROUTED VIA JUNCTION BOX ADJACENT TO PANEL 'MP'. SEE 'ELECTRICAL SITE PLAN, ON SHEET 'E-2.0', AND 'POWER RISER DIAGRAM', ON SHEET 'E-0.2', FOR MORE INFORMATION.
- PRIOR TO CONSTRUCTION, EC TO FIELD COORDINATE WITH TELE/DATA UTILITY FOR REQUIRED CONDUITS FOR TELE/DATA SERVICE. VERIFY EXACT POINTS OF TERMINATION AND EXACT NUMBER/SIZE OF CONDUITS. FOR BID PURPOSES, ASSUME TWO (2) 2" C (W/ PULLSTRING).

GENERAL NOTE(S) FOR ELECTRICAL CONTRACTOR:

- IN THE EVENT THAT THE GENERATOR IS INSTALLED, ALL 'BP' FIXTURES SHOULD NOT BE INSTALLED AND ALL ASSOCIATED COSTS (FIXTURE, CONDUIT, CONDUCTORS, JUNCTION BOXES, ETC.) REQUIRED FOR INSTALLATION OF FIXTURE SHOULD BE REMOVED FROM BID. ALL 'BPX' FIXTURES SHALL BE REPLACED WITH A CHLORIDE #CXL-3-R-W (AC ONLY) OR EQUAL. IF IT IS DETERMINED THAT AN EQUAL WILL BE SELECTED FOR REPLACEMENT OF 'BPX' FIXTURES, EC TO ENSURE THAT FIXTURE SELECTED IS AC ONLY OPERATION. FOR THE ABOVE ACTIONS, AN AUTOMATIC AIS MUST BE INSTALLED. IF IT IS DETERMINED THAT A MANUAL AIS IS TO BE INSTALLED TO DECREASE COST, THE 'BPX' AND 'BP' FIXTURES ARE TO REMAIN.
- IN APPARATUS BAY AREA, ALL ELECTRICAL DEVICES (LIGHTING, RECEPTACLES, DISCONNECTS, JUNCTION BOXES, SWITCHES, ETC.) ARE TO BE INSTALLED AT A MINIMUM OF 24" A.F.F.. EC TO ENSURE THE INSTALLATION IS COMPLIANT WITH NEC 511. ATTENTION SHOULD BE MADE TO AVOID INSTALLATION OF RECEPTACLES, DISCONNECTS, J-BOXES, SWITCHES, PANELS, LIGHTING, ETC. WITHIN THE PANELS, LIGHTING, ETC. WITHIN THESE AREAS. OTHERWISE, DEVICES SUITABLE FOR CLASS I, DIV VIII ENVIRONMENTS (EXPLOSION-PROOF APPARATUS MUST BE INSTALLED). NO GASES LIGHTER THAN AIR TO BE PRESENT IN BUILDING.

WATFORD ENGINEERING
4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road Auburn, AL 36830

Florida CA Number: 27825
Anthony L. Davis, PE
Florida License Number: 57419
602.526.3447
Project Number: 2025-009
Checked By: ALD
Drawn By: EMU

100% COMPLETE
CONSTRUCTION DOCUMENTS
DONOFRO ARCHITECTS
NOT FOR CONSTRUCTION
AUG. 13, 2025

DONOFRO ARCHITECTS

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MARIANNA, FL 32446
OFFICE: (850) 482-5261
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MARIANNA, FL 32447
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SHEET ELECTRICAL POWER AND LIGHTING PLAN

NEW FIRE STATION

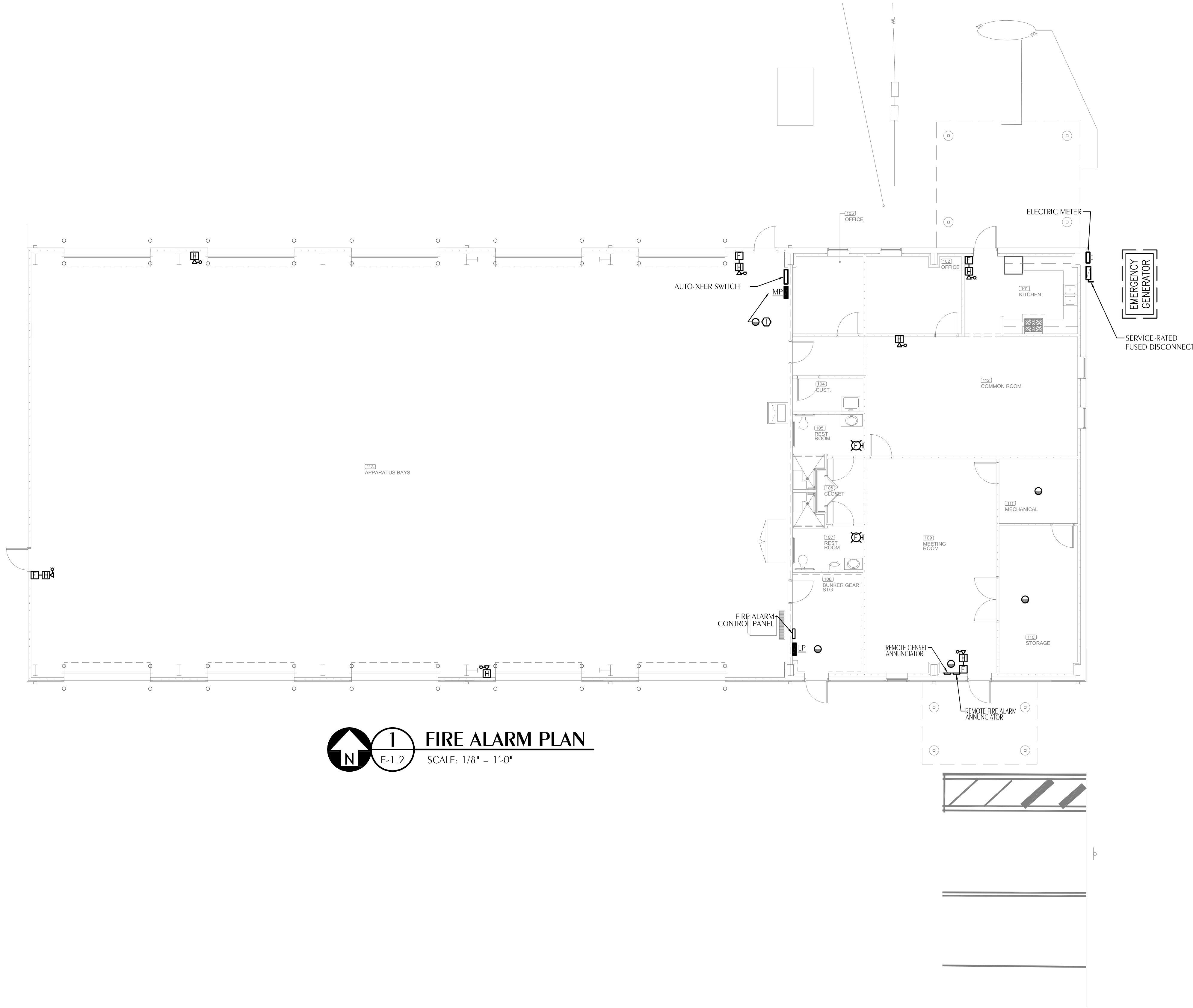
FOR THE
GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA

JOB NUMBER: M-2024-12
DATE: AUG 13, 2025
DRAWN BY: EMU
CHECKED BY: ALD

SHEET No.

E-1.1



KEYNOTES

○ SMOKE DETECTOR TO BE WALL MOUNTED ABOVE PANEL "MP".

 **FIRE ALARM PLAN**
SCALE: 1/8" = 1'-0"

WATFORD
ENGINEERING

Florida CA Number: 27825
Anthony L. Davis, PE
Florida License Number: 57419
650.535.3447
Project Number: 2025-009
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100% COMPLETE

CONSTRUCTION DOCUMENTS

DONOFRO
ARCHITECTS

NOT FOR CONSTRUCTION
AUG. 13, 2025

JOB NUMBER:
M-2024-12

DATE:
AUG 13, 2025

DRAWN BY:
EMU

CHECKED BY:
ALD

SHEET FIRE ALARM PLAN

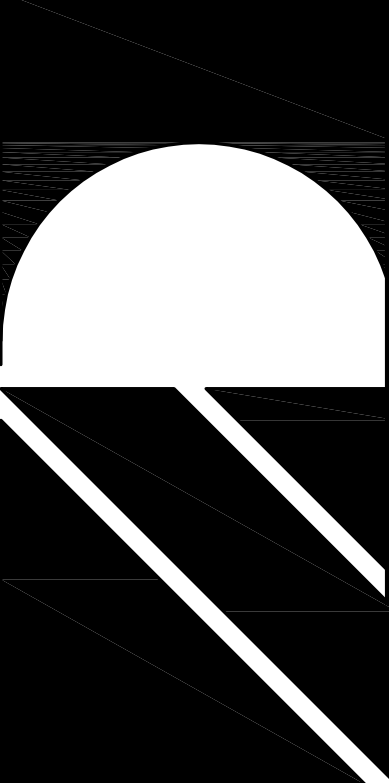
TITLE:

NEW FIRE STATION

FOR THE:

GRAND RIDGE FIRE DEPARTMENT

GRAND RIDGE, FLORIDA



DONOFRO ARCHITECTS

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