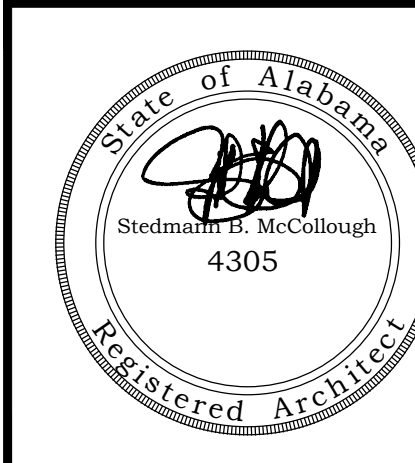
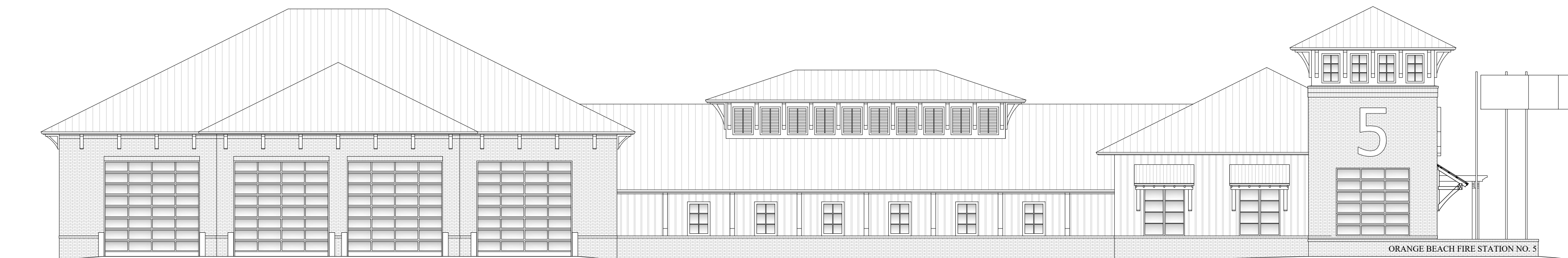


A NEW FIRE STATION FOR ORANGE BEACH

BID DOCUMENTS - NOVEMBER 01, 2021



ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

GENERAL NOTES:	
1.	ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
2.	THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
3.	IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
4.	CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
5.	DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
6.	DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
7.	THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION
8.	PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
9.	ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
10.	PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
11.	NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
12.	ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
13.	THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
14.	ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY w/ OSHA REQUIREMENTS.
15.	ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.
16.	ALL PRODUCTS, MATERIALS AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

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C-2	PROJECT NOTES
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APPLICABLE BUILDING CODES	
LOCAL OFFICIAL HAVING JURISDICTION IS ORANGE BEACH, ALABAMA	
2018	INTERNATIONAL RESIDENTIAL CODE
2018	INTERNATIONAL FUEL GAS CODE
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL PLUMBING CODE
2018	INTERNATIONAL BUILDING CODE
2017	NATIONAL ELECTRICAL CODE

JOB NO.:	
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.11.01
REVISION:	
SCALE:	
SHEET NO.:	
T1.0	
TITLE SHEET	

FIRE STATION NO. 5

CITY OF ORANGE BEACH

CIVIL CONSTRUCTION DRAWINGS

SEPTEMBER, 2021



SHEET LIST	
SHEET NUMBER	SHEET TITLE
1	TITLE
2	PROJECT NOTES
3	EXISTING CONDITIONS
4	TYPICAL SECTIONS
5	TYPICAL SECTIONS
6	GEOMETRY PLAN
7	JOINT PLAN
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18	SEWER DETAILS
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20	EROSION DETAILS



VICINITY MAP

UTILITY PROVIDERS	
SANITARY SEWER	ORANGE BEACH SEWER
WATER	ORANGE BEACH WATER
POWER	BALDWIN EMC
TELEPHONE	CENTURYLINK
GAS	ORANGE BEACH GAS

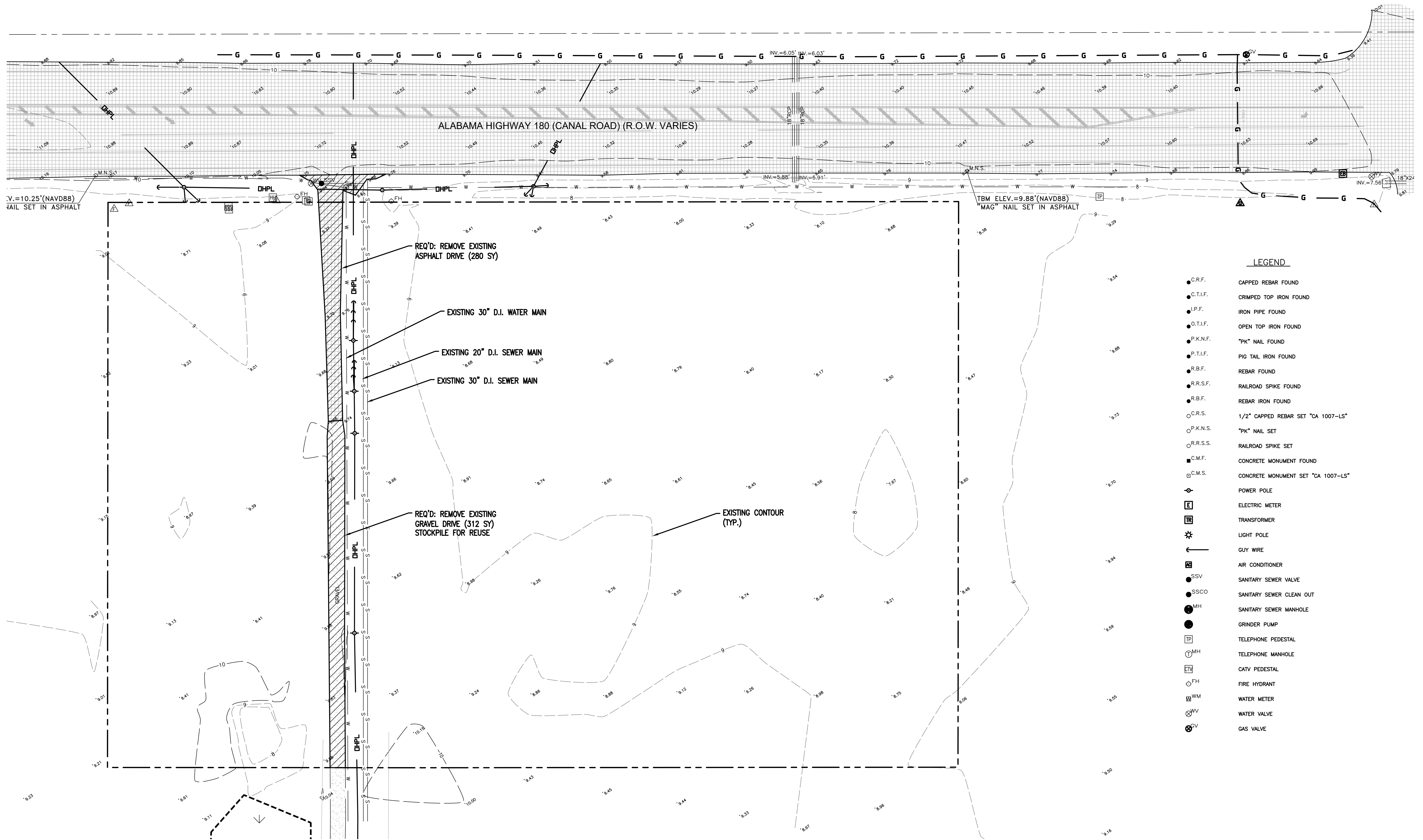
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PREPARED BY:



ENGINEER OF RECORD

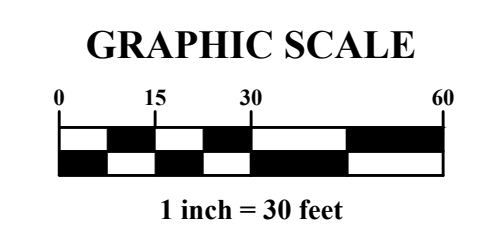
11-9-21
DATE



LEGEND

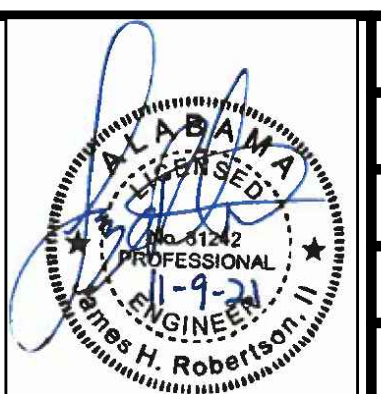
- C.R.F. CAPPED REBAR FOUND
- C.T.I.F. CRIMPED TOP IRON FOUND
- I.P.F. IRON PIPE FOUND
- O.T.I.F. OPEN TOP IRON FOUND
- P.K.N.F. "PK" NAIL FOUND
- P.T.I.F. PIG TAIL IRON FOUND
- R.B.F. REBAR FOUND
- R.R.S.F. RAILROAD SPIKE FOUND
- R.B.F. REBAR IRON FOUND
- C.R.S. 1/2" CAPPED REBAR SET "CA 1007-LS"
- P.K.N.S. "PK" NAIL SET
- R.R.S.S. RAILROAD SPIKE SET
- C.M.F. CONCRETE MONUMENT FOUND
- C.M.S. CONCRETE MONUMENT SET "CA 1007-LS"
- ⊕ POWER POLE
- ⊞ ELECTRIC METER
- ⊞ TRANSFORMER
- ⊞ LIGHT POLE
- ← AIR WIRE
- ⊞ AIR CONDITIONER
- SSV SANITARY SEWER VALVE
- SSCO SANITARY SEWER CLEAN OUT
- MH SANITARY SEWER MANHOLE
- GRINDER PUMP
- ⊞ TP TELEPHONE PEDESTAL
- ⊞ TM TELEPHONE MANHOLE
- ⊞ TV CATV PEDESTAL
- ⊞ FH FIRE HYDRANT
- ⊞ WM WATER METER
- ⊞ WV WATER VALVE
- ⊞ GV GAS VALVE

NUMBER:	REVISION:	DATE:



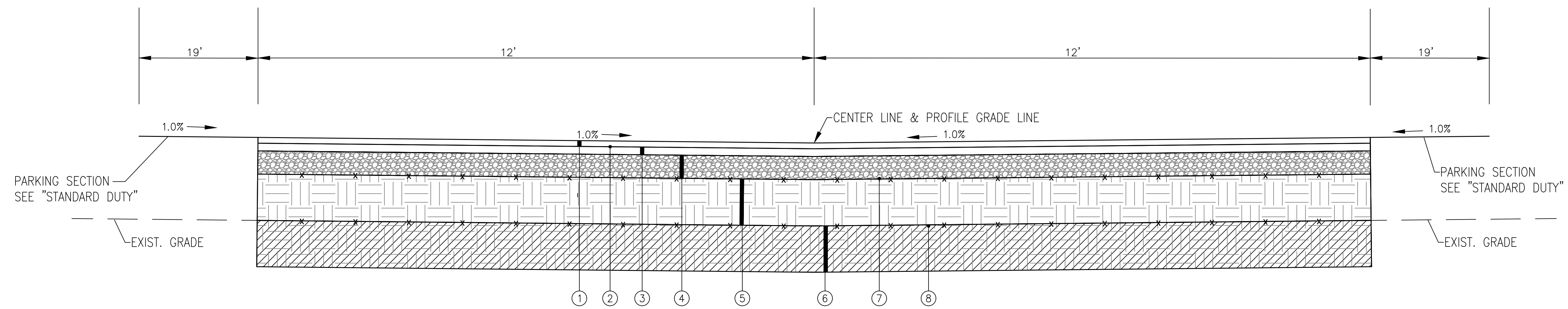
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

EXISTING CONDITIONS
 FIRE STATION NO. 5
 CITY OF ORANGE BEACH



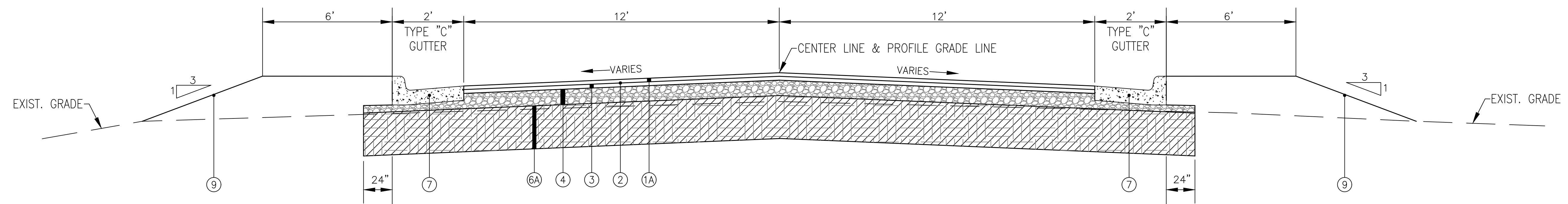
SCALE: 1"=30'
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 3 OF 20

DWG INFO: S:\V-Clients\21-084-ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH\ENGINEERING\PRODUCTION - DWGS\BASE - 25-21-DWG-11/10/2021 - 2:20:22 PM



MEDIUM DUTY PAVEMENT SECTION

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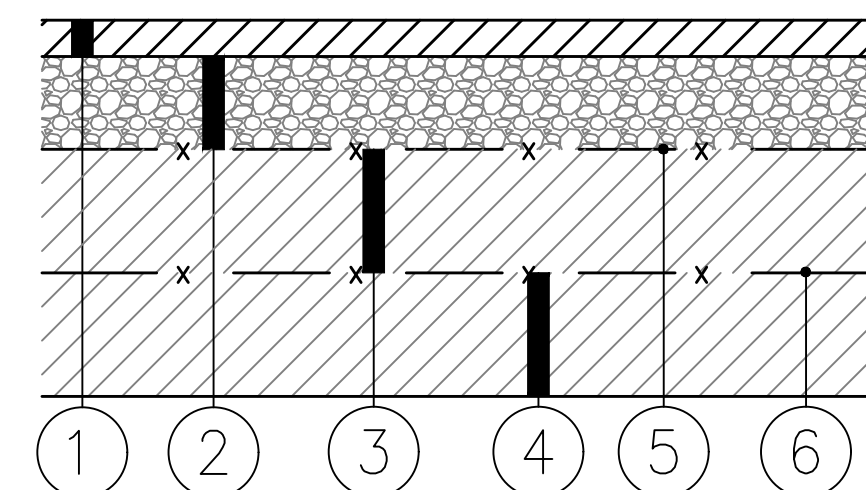


POWERLINE ROAD PAVEMENT SECTION

N.T.S.

LEGEND

- ① 1.5" ALDOT SECTION 424-A - BITUMINOUS CONCRETE WEARING SURFACE LAYER (165 LB/SY)
- ①A 2.0" ALDOT SECTION 424-A - BITUMINOUS CONCRETE WEARING SURFACE LAYER (220 LB/SY)
- ② ALDOT SECTION 405 - TACK COAT, 0.20 GALLONS PER SQUARE YARD
- ③ 2" ALDOT SECTION 424-B - BITUMINOUS CONCRETE BINDER LAYER (220 LB/SY)
- ④ 6" ALDOT SECTION 825 - CRUSHED AGGREGATE BASE COURSE (100% STANDARD DENSITY)
- ⑤ 12" BORROW EXCAVATION - SELECT SAND FILL (COMPACTED TO 100% STANDARD DENSITY)
- ⑥ 12" UNCLASSIFIED EXCAVATION/BORROW EXCAVATION - CLEAN COARSE SAND (SEE GEOTECHNICAL REPORT) (TBM)
- ⑥A 18" UNCLASSIFIED EXCAVATION/BORROW EXCAVATION - CLEAN COARSE SAND (SEE GEOTECHNICAL REPORT) (TBM)
- ⑦ GEOTEXTILE FABRIC, MARIFI 500X OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)
- ⑧ GEOTEXTILE FABRIC, TENSAR TX 160 OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)
- ⑨ TOPSOIL & SOLID SOD

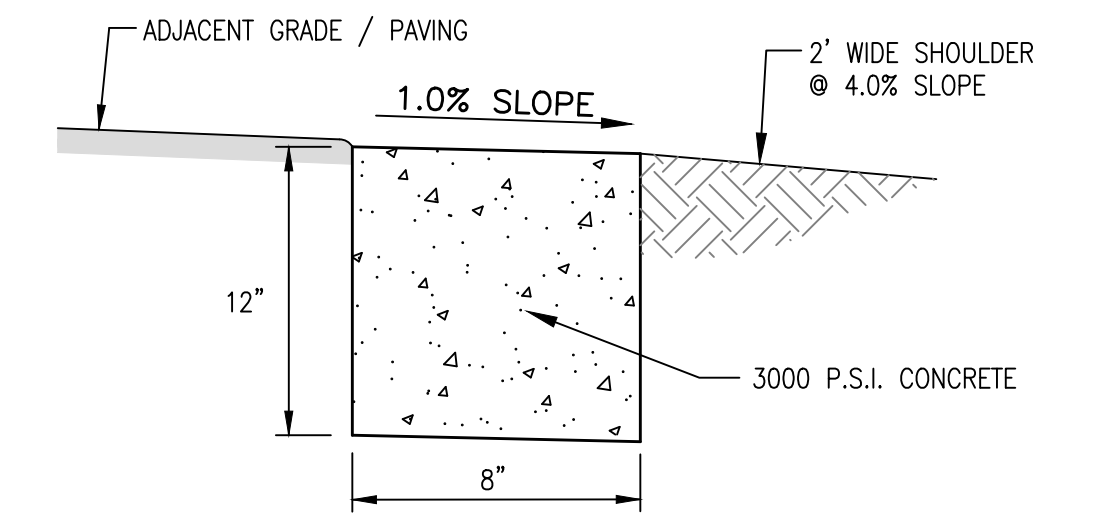


STANDARD DUTY PAVEMENT SECTION

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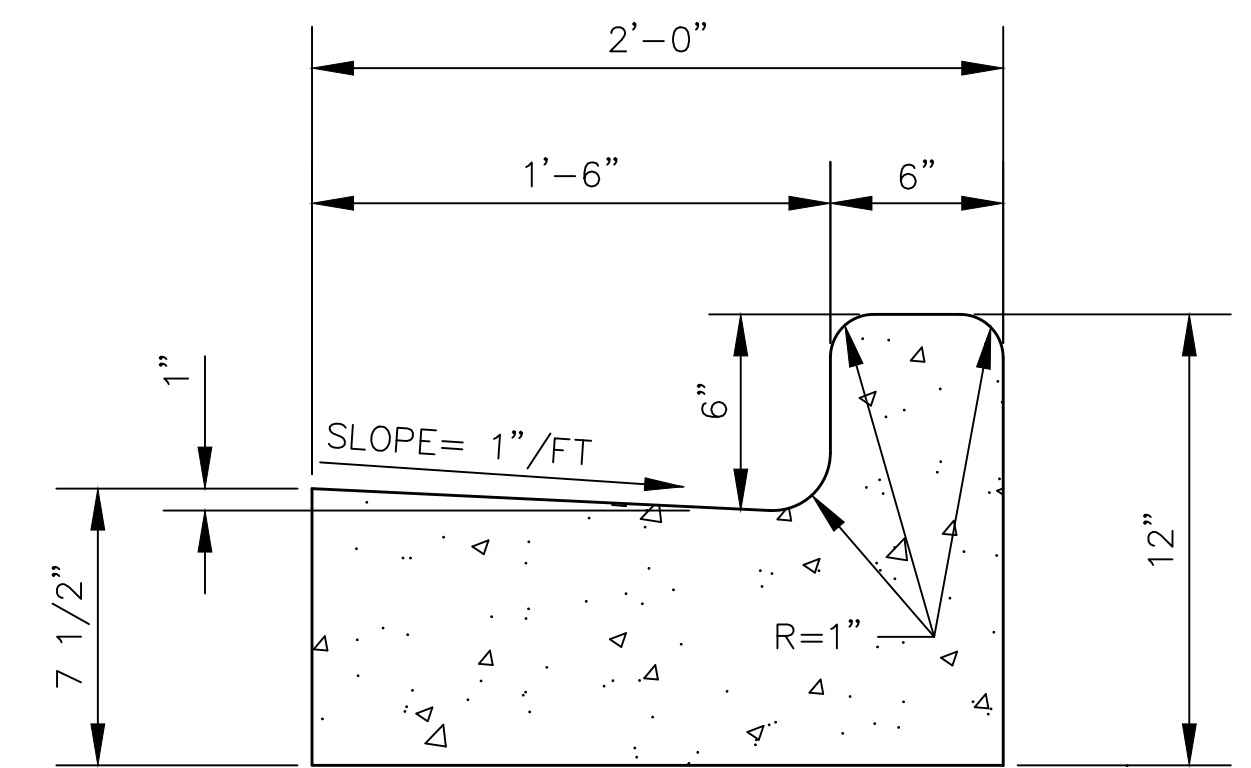
LEGEND

- ① 1 1/2" ALDOT SECTION 424-A, BITUMINOUS WEARING SURFACE (165 LB/SY)
- ② 6" ALDOT SECTION 825 - CRUSHED AGGREGATE BASE COURSE (100% STANDARD DENSITY)
- ③ BORROW EXCAVATION - SELECT SAND FILL (TOP 6" COMPACTED TO 100% STANDARD DENSITY)
- ④ BORROW EXCAVATION - CLEAN COARSE SAND (SEE GEOTECHNICAL REPORT)
- ⑤ GEOTEXTILE FABRIC, MARIFI 500X OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)
- ⑥ GEOTEXTILE FABRIC, TENSAR TX 160 OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)



RIBBON CURB

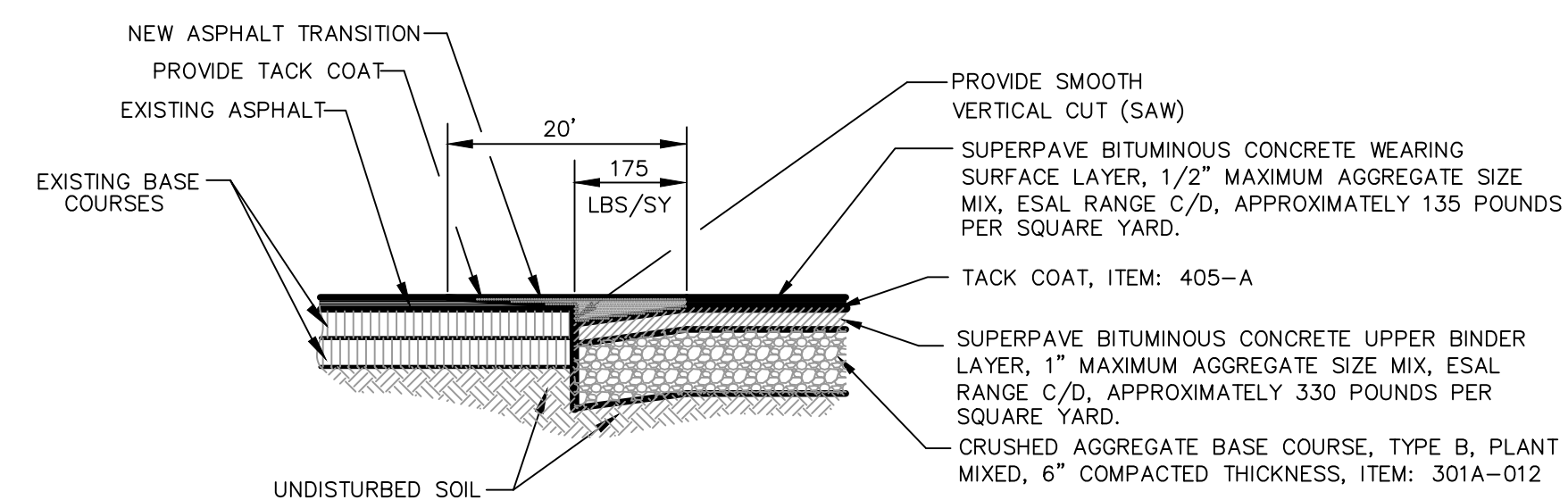
N.T.S.



***24" CURB & GUTTER DETAIL**

(TYPE "C" MODIFIED)

N.T.S.



BUTT JOINT DETAIL

N.T.S.

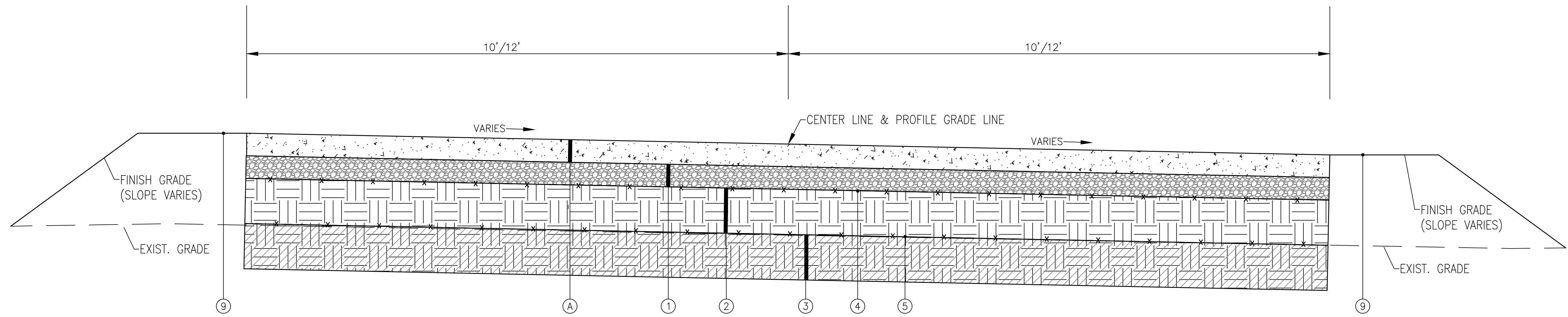
NUMBER:	REVISION:	DATE:



TYPICAL SECTIONS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 4 OF 20

DWG INFO: SA - CLIENTS.VL - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG TITLE: NOTES - DETAILS.DWG - 11/10/2021 2:20:23 PM



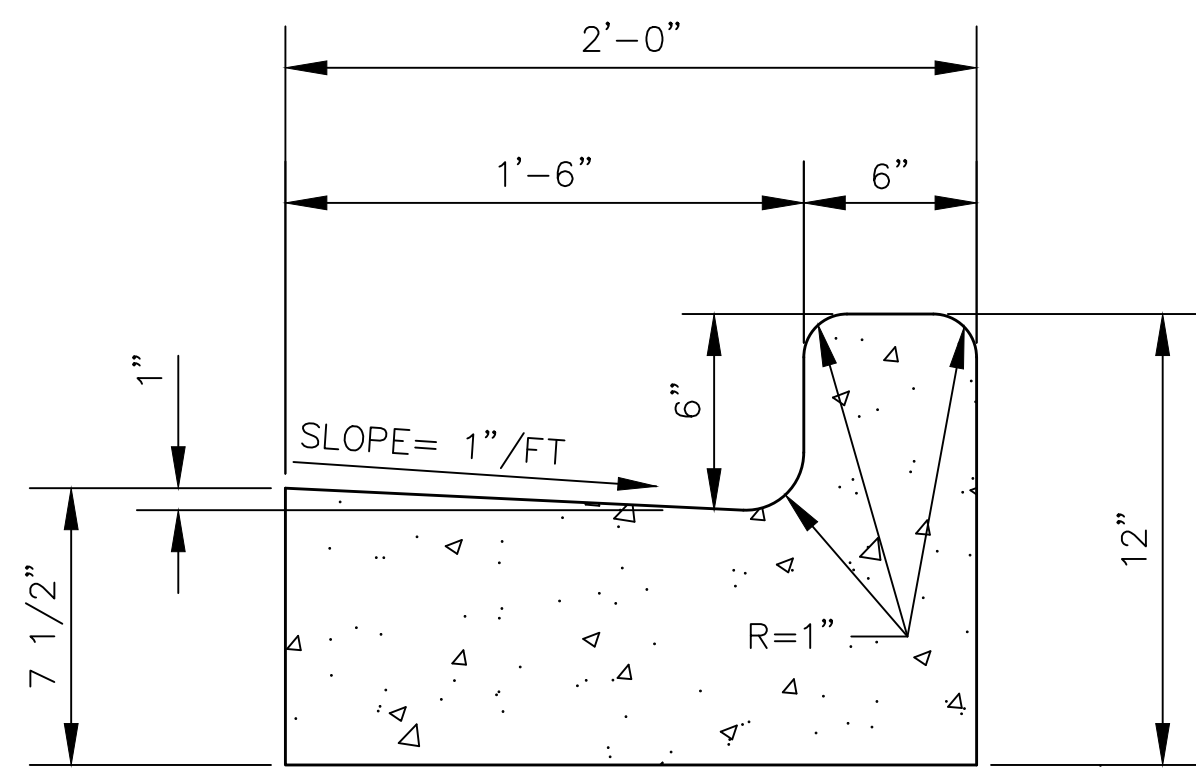
CONCRETE PAVEMENT SECTION

N.T.S.

LEGEND

- (A) 6" 4,000 PSI (500 PSI FLEXURAL STRENGTH) PORTLAND CEMENT CONCRETE
- (1) 6" ALDOT SECTION 825 - CRUSHED AGGREGATE BASE COURSE (100% STANDARD DENSITY)
- (2) 12" BORROW EXCAVATION - SELECT SAND FILL (COMPACTED TO 100% STANDARD DENSITY)
- (3) 12" UNCLASSIFIED EXCAVATION/BORROW EXCAVATION - CLEAN COARSE SAND (SEE GEOTECHNICAL REPORT) (TBM)
- (4) GEOTEXTILE FABRIC, MARIFI 500X OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)
- (5) GEOTEXTILE FABRIC, TENSAR TX 160 OR APPROVED EQUAL (AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER)
- (6) TOPSOIL & SOLID SOD

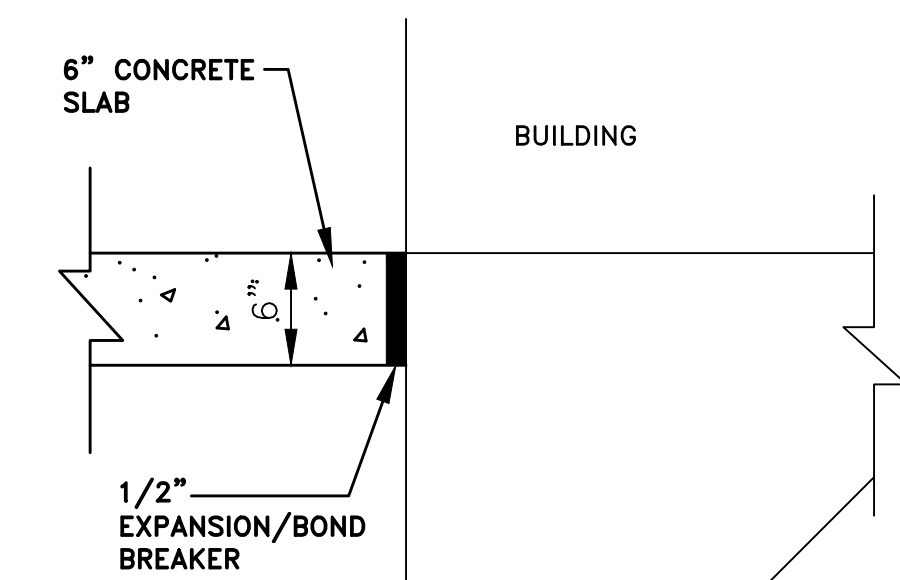
* NOTE:
SEE SHEET 7 OF 12 FOR CONCRETE JOINT PLAN



***24" CURB & GUTTER DETAIL**

(TYPE "C" MODIFIED)

N.T.S.



EXPANSION / BOND BREAKER

SCALE: N.T.S.

CONCRETE NOTES:

JOINTS SHOULD BE INSTALLED IN THE PCC PAVEMENTS TO LIMIT STRESSES RESULTING FROM EXPANSION AND CONTRACTION. CONTRACTION JOINTS SHOULD BE FORMED BY SAWING AS SOON AS THE CONCRETE HAS HARDENED ENOUGH TO PREVENT RAVELING. THESE JOINTS SHOULD EXTEND TO A DEPTH OF AT LEAST 1/4 OF THE PAVEMENT THICKNESS AND BE PLACED ON A 12 TO 15 FOOT SPACING. THE DESIGN AND LOCATION OF ALL PAVEMENT JOINTS SHOULD BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND ACI 330.

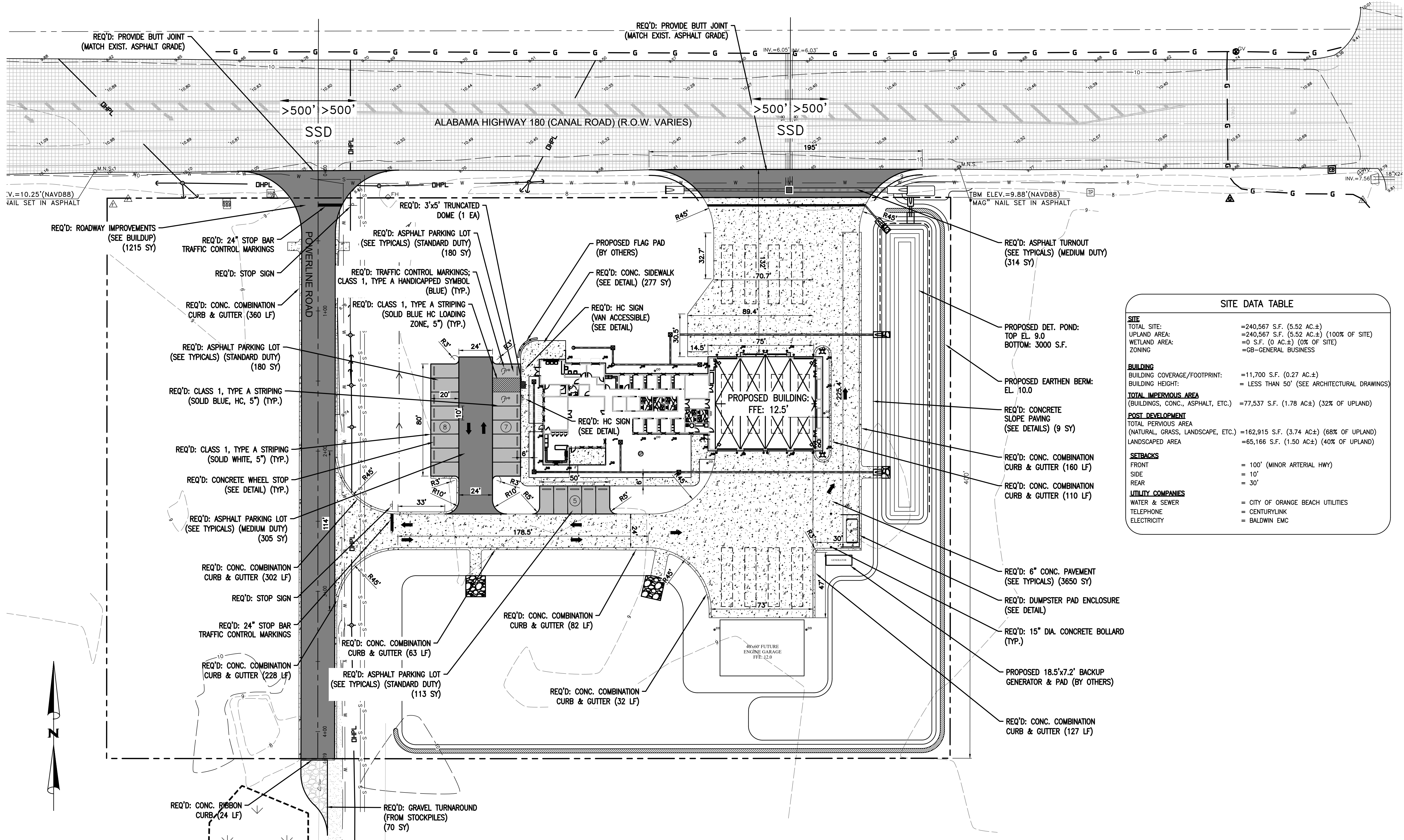
ISOLATION JOINT MATERIAL SHOULD COMPLY WITH ACI STANDARDS. THE UPPER ONE INCH OF THE JOINT MATERIAL SHOULD BE REMOVED AND THE JOINT SEALED WITH A SELF-LEVELING ELASTOMERIC JOINT SEALANT IMMEDIATELY AFTER THE CURING PERIOD AND PRIOR TO OPENING TO TRAFFIC. CONSTRUCTION JOINTS SHOULD BE PROPERLY CLEANED AND SEALED WITH THE SAME TYPE OF JOINT SEALANT. DOWEL SIZING AND SPACING FOR CONSTRUCTION JOINTS SHOULD CONFORM TO THE RECOMMENDATIONS OF ACI 330.

DWG INFO: SA - CLIENTS: V - 064 - ORANGE BEACH FIRE STATION CITY OF ORANGE BEACH ENGINEERING PRODUCTION DWG TITLE: NOTES: DETAILS: DWG -- 11/10/2021 2:20:24 PM

NUMBER:	REVISION:	DATE:

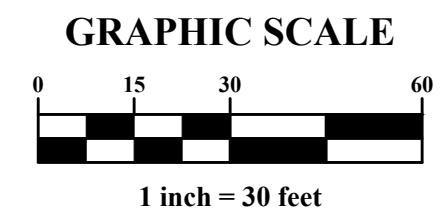
TYPICAL SECTIONS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 5 OF 20



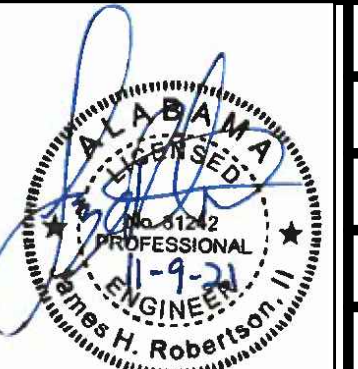
SITE DATA TABLE	
SITE	
TOTAL SITE:	=240,567 S.F. (5.52 AC.±)
UPLAND AREA:	=240,567 S.F. (5.52 AC.±) (100% OF SITE)
WETLAND AREA:	=0 S.F. (0 AC.±) (0% OF SITE)
ZONING:	=GB-GENERAL BUSINESS
BUILDING	
BUILDING COVERAGE/FOOTPRINT:	=11,700 S.F. (0.27 AC.±)
BUILDING HEIGHT:	= LESS THAN 50' (SEE ARCHITECTURAL DRAWINGS)
TOTAL IMPERVIOUS AREA (BUILDINGS, CONC., ASPHALT, ETC.)	=77,537 S.F. (1.78 AC.±) (32% OF UPLAND)
POST DEVELOPMENT	
TOTAL PERVIOUS AREA (NATURAL, GRASS, LANDSCAPE, ETC.)	=162,915 S.F. (3.74 AC.±) (68% OF UPLAND)
LANDSCAPED AREA	=65,166 S.F. (1.50 AC.±) (40% OF UPLAND)
SETBACKS	
FRONT	= 100' (MINOR ARTERIAL HWY)
SIDE	= 10'
REAR	= 30'
UTILITY COMPANIES	
WATER & SEWER	= CITY OF ORANGE BEACH UTILITIES
TELEPHONE	= CENTURYLINK
ELECTRICITY	= BALDWIN EMC

NUMBER:	REVISION:	DATE:



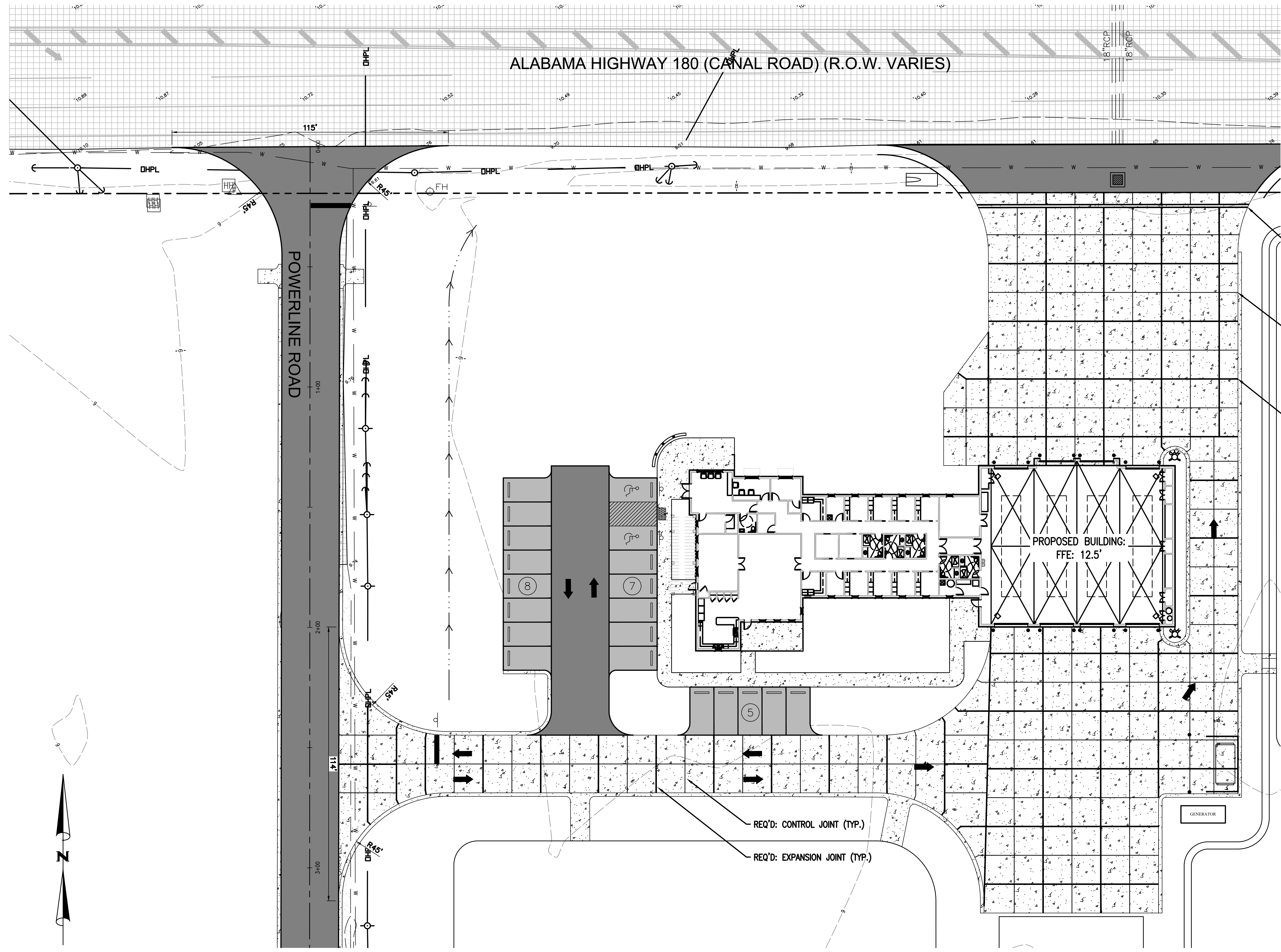
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GEOMETRY PLAN
 FIRE STATION NO. 5
 CITY OF ORANGE BEACH



SCALE:	1"=30'
DATE:	SEPTEMBER, 2021
DRAWN BY:	JNF
CHECKED BY:	JHR
SHEET:	6 OF 20

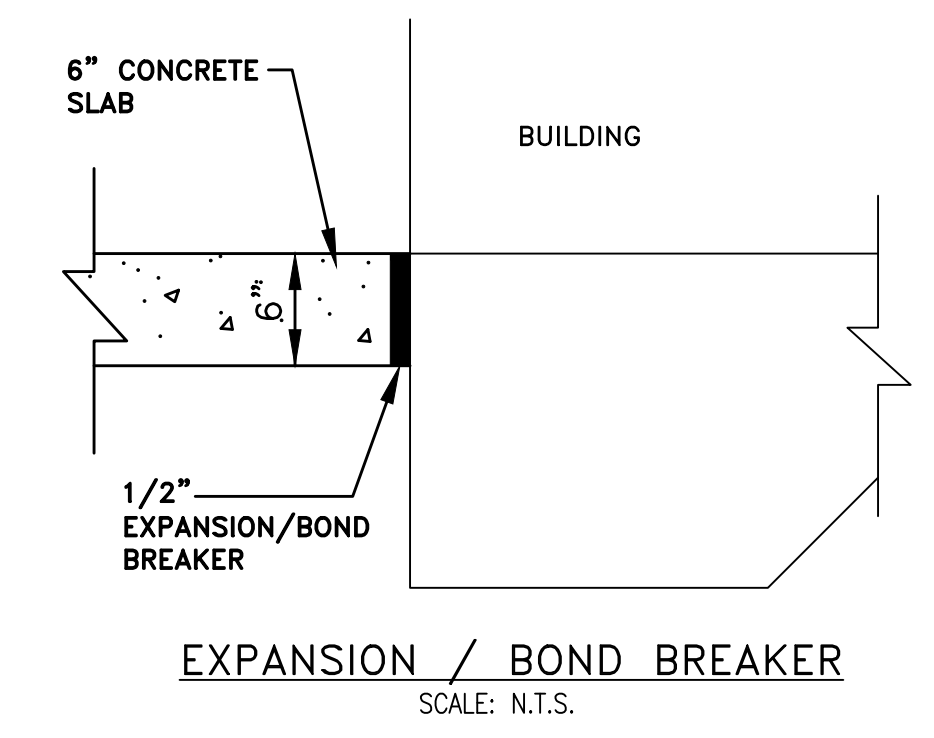
DWG INFO: SAJ - CLIENTS: VJ - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG'S BASE - 8-23-21 DWG - 11/10/2021 - 2:20:31 PM



REQ'D: EXPANSION JOINT AROUND PROPOSED TRENCH DRAIN (BOTH SIDES)

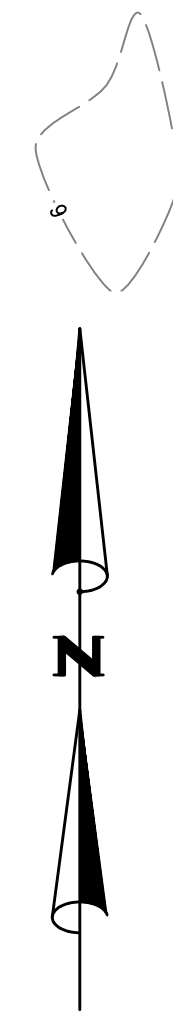
REQ'D: CONTROL JOINT (TYP.)

REQ'D: EXPANSION JOINT (TYP.)

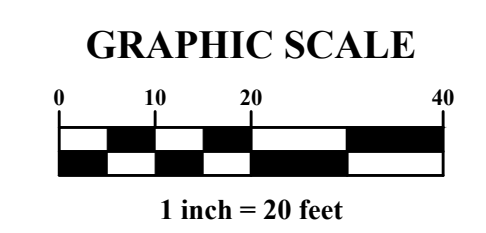


CONCRETE NOTES:
 JOINTS SHOULD BE INSTALLED IN THE PCC PAVEMENTS TO LIMIT STRESSES RESULTING FROM EXPANSION AND CONTRACTION. CONTRACTION JOINTS SHOULD BE FORMED BY SAWING AS SOON AS THE CONCRETE HAS HARDENED ENOUGH TO PREVENT RAVELING. THESE JOINTS SHOULD EXTEND TO A DEPTH OF AT LEAST 1/4 OF THE PAVEMENT THICKNESS AND BE PLACED ON A 12 TO 15 FOOT SPACING. THE DESIGN AND LOCATION OF ALL PAVEMENT JOINTS SHOULD BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE PORTLAND CEMENT ASSOCIATION (PCA) AND ACI 330.

ISOLATION JOINT MATERIAL SHOULD COMPLY WITH ACI STANDARDS. THE UPPER ONE INCH OF THE JOINT MATERIAL SHOULD BE REMOVED AND THE JOINT SEALED WITH A SELF-LEVELING ELASTOMERIC JOINT SEALANT IMMEDIATELY AFTER THE CURING PERIOD AND PRIOR TO OPENING TO TRAFFIC. CONSTRUCTION JOINTS SHOULD BE PROPERLY CLEANED AND SEALED WITH THE SAME TYPE OF JOINT SEALANT. DOWEL SIZING AND SPACING FOR CONSTRUCTION JOINTS SHOULD CONFORM TO THE RECOMMENDATIONS OF ACI 330.



NUMBER:	REVISION:	DATE:

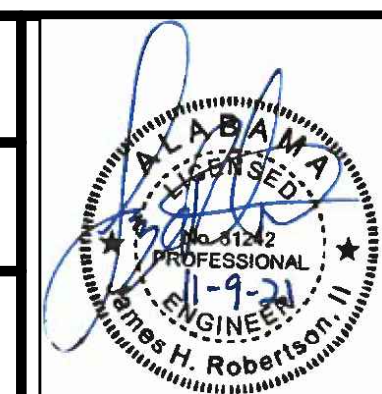


30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

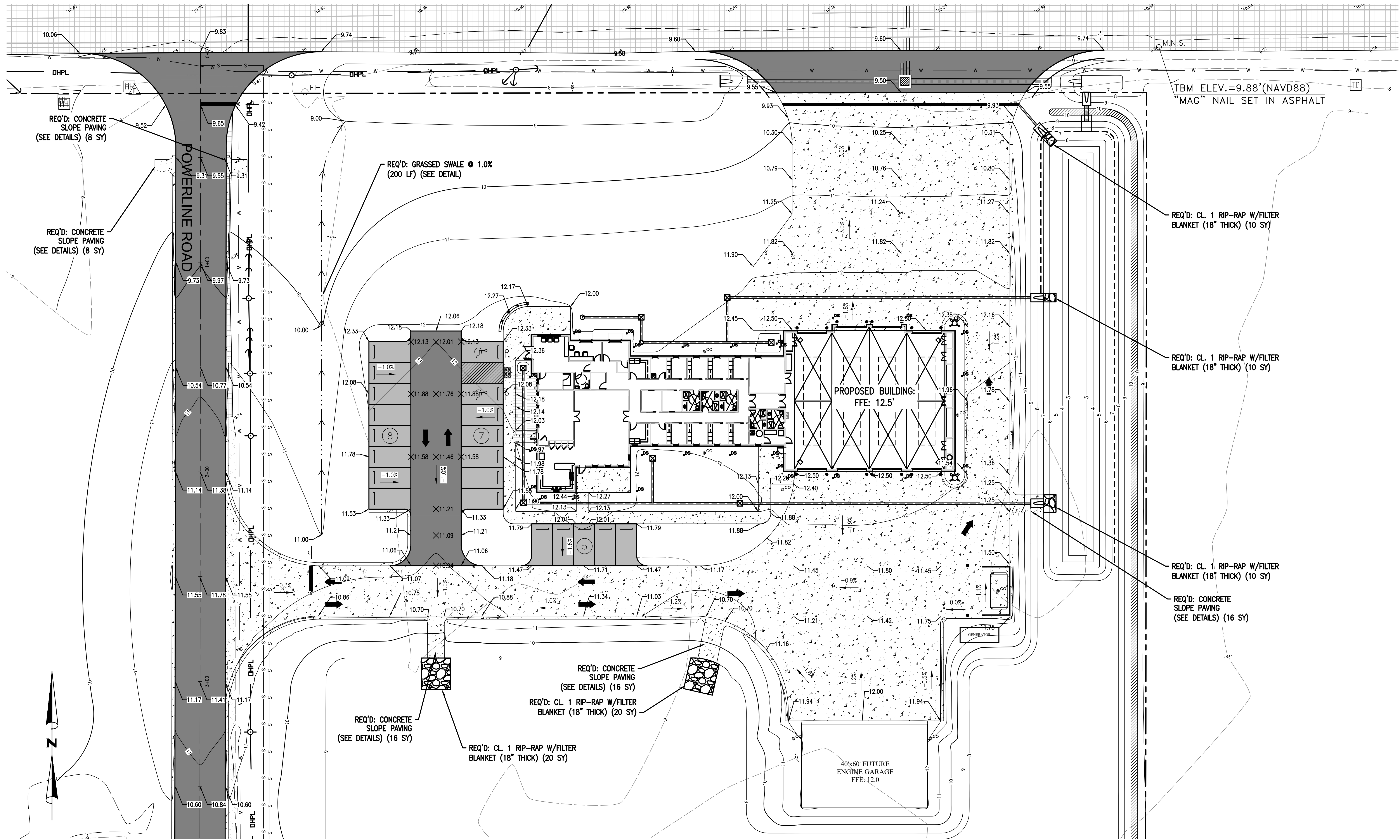
JOINT PLAN

FIRE STATION NO. 5

CITY OF ORANGE BEACH

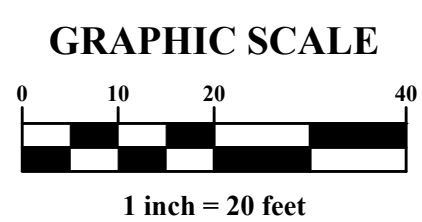


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DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 7 OF 20



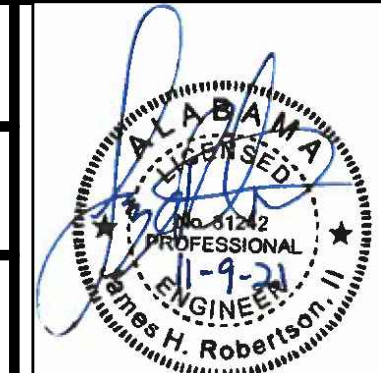
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NUMBER:	REVISION:	DATE:

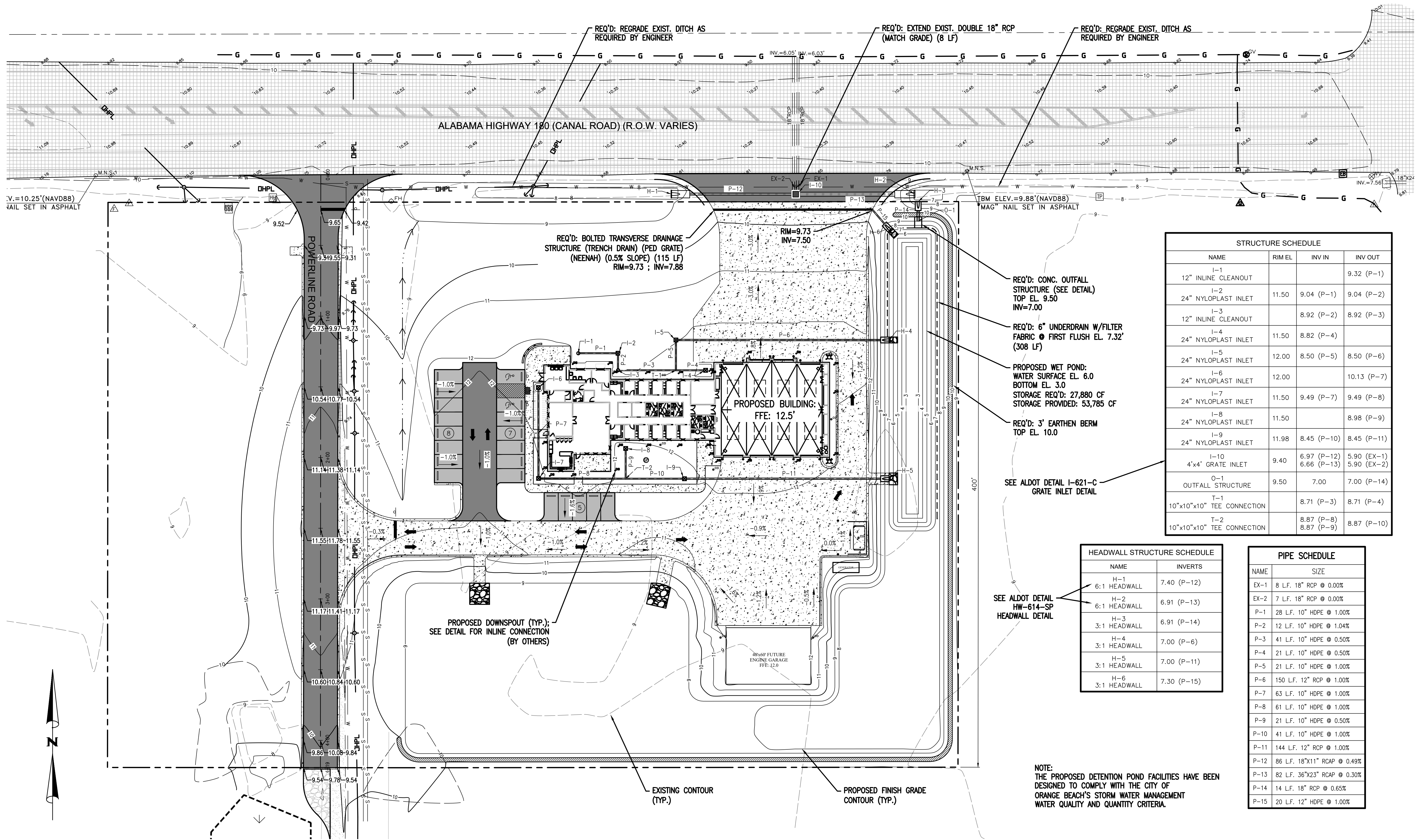


Sawgrass
 ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GRADING PLAN
FIRE STATION NO. 5
CITY OF ORANGE BEACH



SCALE: 1"=20'
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 8 OF 20



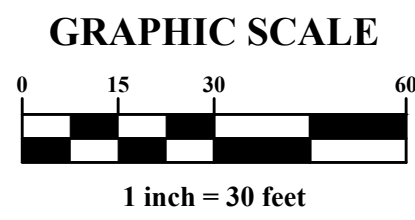
STRUCTURE SCHEDULE			
NAME	RIM EL.	INV IN	INV OUT
I-1			9.32 (P-1)
12" INLINE CLEANOUT			
I-2	11.50	9.04 (P-1)	9.04 (P-2)
24" NYLOPLAST INLET			
I-3		8.92 (P-2)	8.92 (P-3)
12" INLINE CLEANOUT			
I-4	11.50	8.82 (P-4)	
24" NYLOPLAST INLET			
I-5	12.00	8.50 (P-5)	8.50 (P-6)
24" NYLOPLAST INLET			
I-6	12.00		10.13 (P-7)
24" NYLOPLAST INLET			
I-7	11.50	9.49 (P-7)	9.49 (P-8)
24" NYLOPLAST INLET			
I-8	11.50		8.98 (P-9)
24" NYLOPLAST INLET			
I-9	11.98	8.45 (P-10)	8.45 (P-11)
24" NYLOPLAST INLET			
I-10	9.40	6.97 (P-12)	5.90 (EX-1)
4'x4' GRATE INLET		6.66 (P-13)	5.90 (EX-2)
O-1	9.50	7.00	7.00 (P-14)
OUTFALL STRUCTURE			
T-1		8.71 (P-3)	8.71 (P-4)
10"x10"x10" TEE CONNECTION			
T-2		8.87 (P-8)	8.87 (P-9)
10"x10"x10" TEE CONNECTION			

HEADWALL STRUCTURE SCHEDULE	
NAME	INVERTS
H-1	7.40 (P-12)
6:1 HEADWALL	
H-2	6.91 (P-13)
6:1 HEADWALL	
H-3	6.91 (P-14)
3:1 HEADWALL	
H-4	7.00 (P-6)
3:1 HEADWALL	
H-5	7.00 (P-11)
3:1 HEADWALL	
H-6	7.30 (P-15)
3:1 HEADWALL	

PIPE SCHEDULE	
NAME	SIZE
EX-1	8 LF. 18" RCP @ 0.00%
EX-2	7 LF. 18" RCP @ 0.00%
P-1	28 LF. 10" HDPE @ 1.00%
P-2	12 LF. 10" HDPE @ 1.04%
P-3	41 LF. 10" HDPE @ 0.50%
P-4	21 LF. 10" HDPE @ 0.50%
P-5	21 LF. 10" HDPE @ 1.00%
P-6	150 LF. 12" RCP @ 1.00%
P-7	63 LF. 10" HDPE @ 1.00%
P-8	61 LF. 10" HDPE @ 1.00%
P-9	21 LF. 10" HDPE @ 0.50%
P-10	41 LF. 10" HDPE @ 1.00%
P-11	144 LF. 12" RCP @ 1.00%
P-12	86 LF. 18"x11" RCAP @ 0.49%
P-13	82 LF. 36"x23" RCAP @ 0.30%
P-14	14 LF. 18" RCP @ 0.65%
P-15	20 LF. 12" HDPE @ 1.00%

NOTE:
THE PROPOSED DETENTION POND FACILITIES HAVE BEEN
DESIGNED TO COMPLY WITH THE CITY OF
ORANGE BEACH'S STORM WATER MANAGEMENT
WATER QUALITY AND QUANTITY CRITERIA.

NUMBER:	REVISION:	DATE:

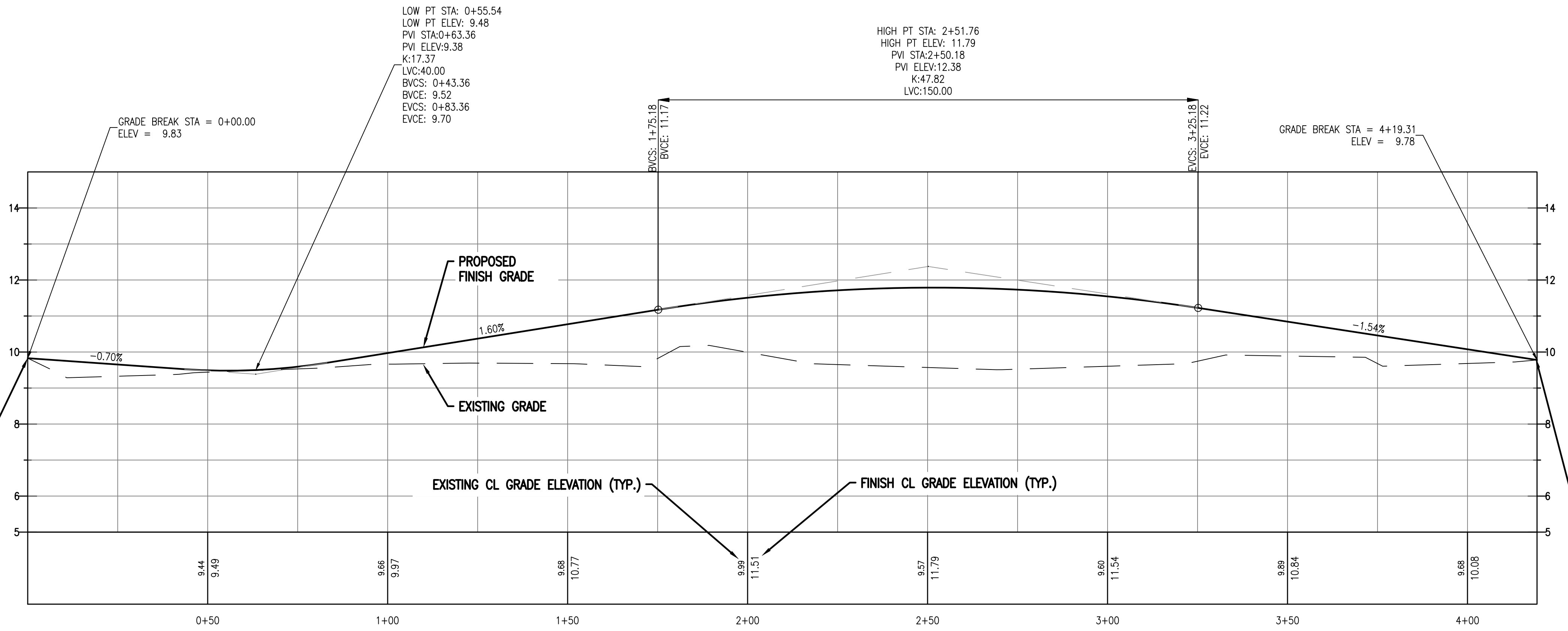
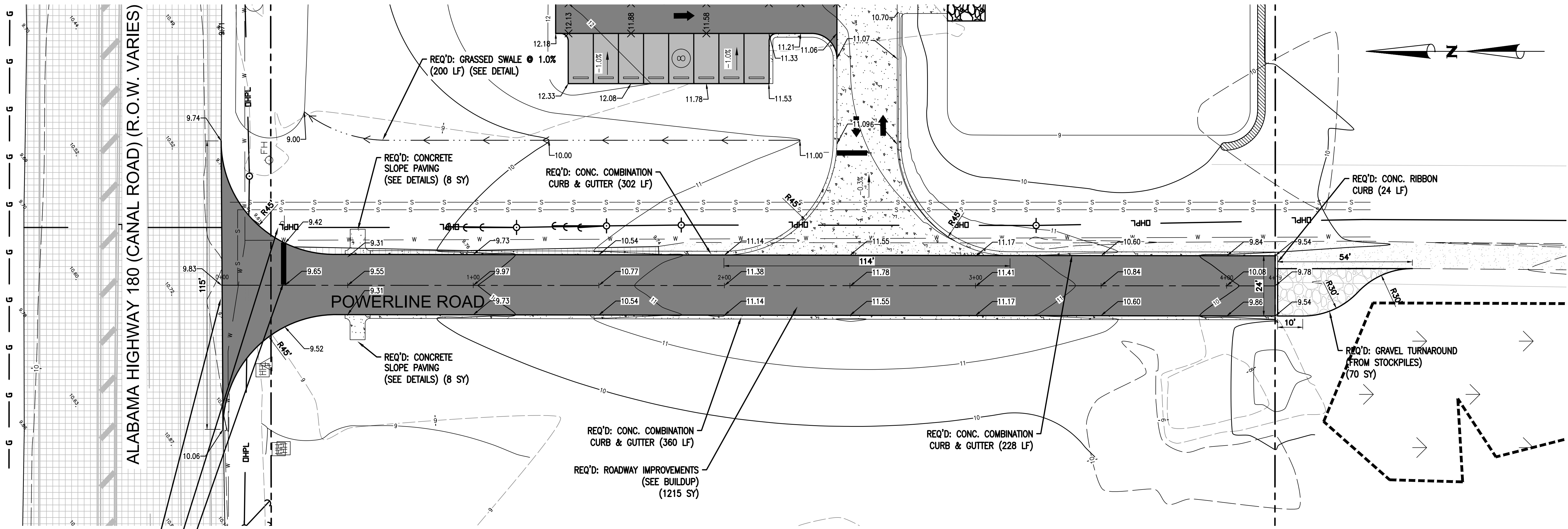


DRAINAGE PLAN
FIRE STATION NO. 5
CITY OF ORANGE BEACH



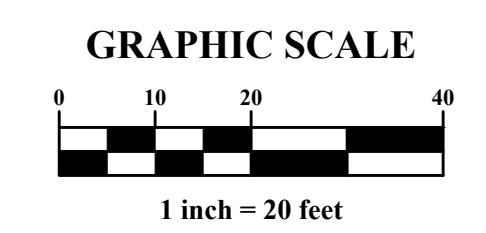
SCALE: 1"=30'
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 9 OF 20

DWG INFO: SA - CLIENTS: V - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG'S BASE - 8-23-21 - DWG - 11/10/2021 - 2:20:45 PM



DWG INFO: SAJ - CLIENTS: VJ - 084 - ORANGE BEACH - FIRE STATION - CITY OF ORANGE BEACH - ENGINEERING PRODUCTION - DWG'S BASE - 8-23-21 DWG - 11/10/2021 - 2:20:50 PM

NUMBER:	REVISION:	DATE:



Sawgrass

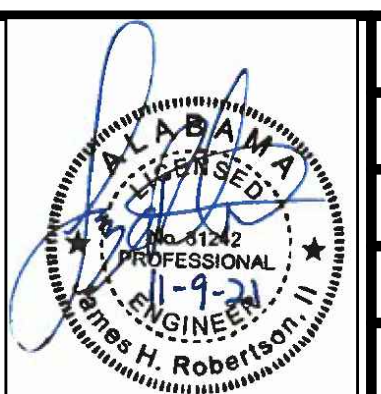
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

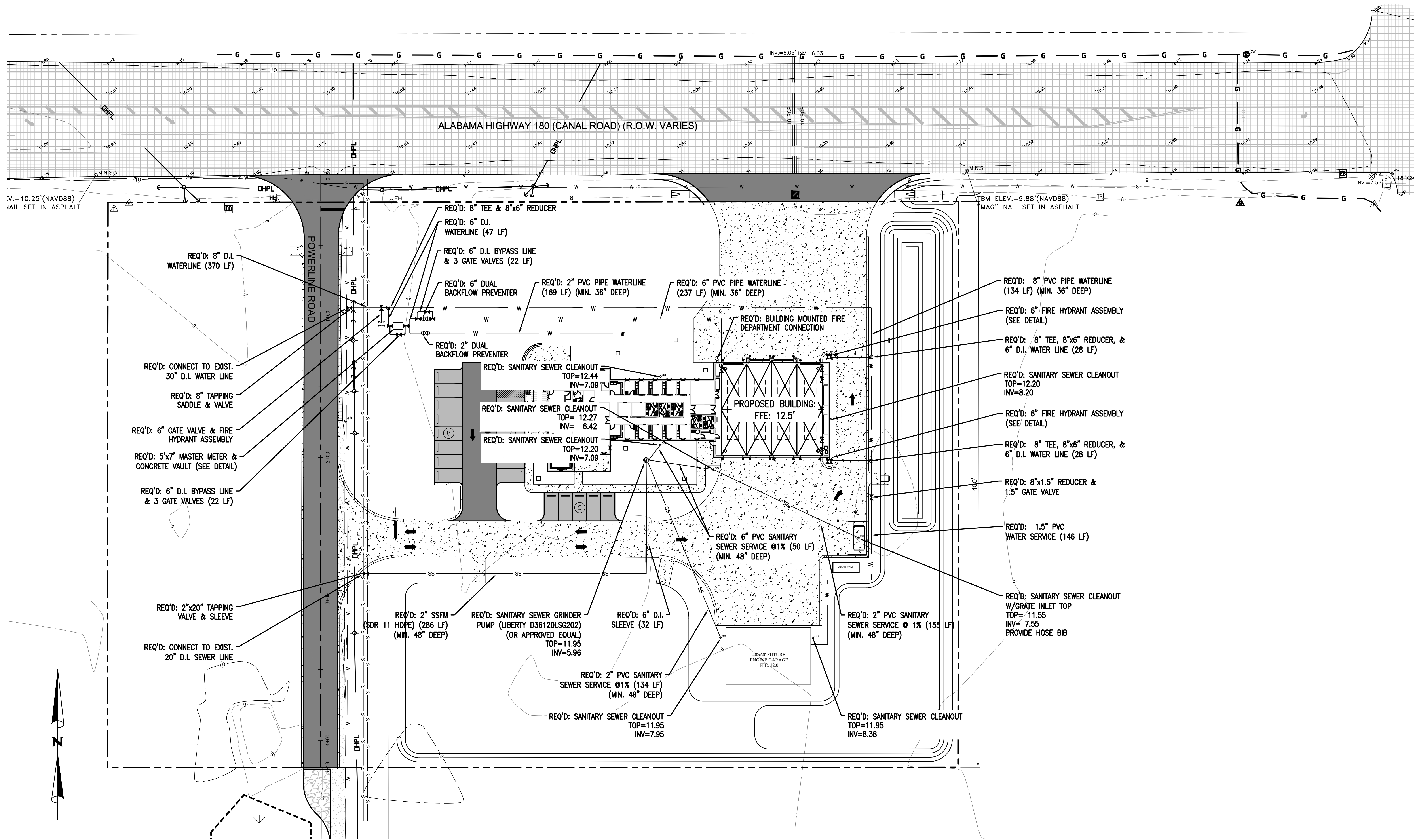
POWERLINE ROAD PLAN & PROFILE

FIRE STATION NO. 5

CITY OF ORANGE BEACH

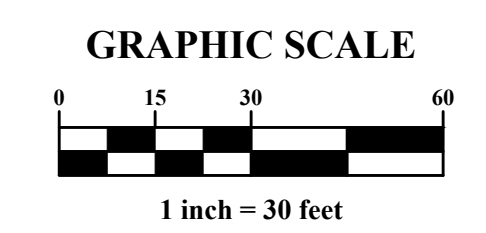


SCALE: 1"=20' H; 1"=2' V
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 10 OF 20



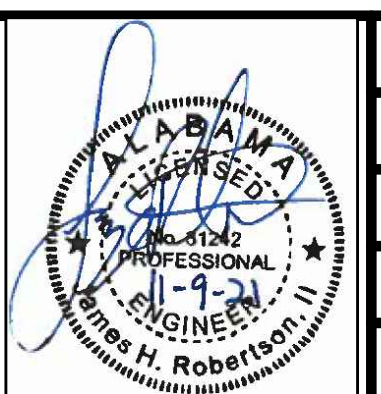
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NUMBER:	REVISION:	DATE:

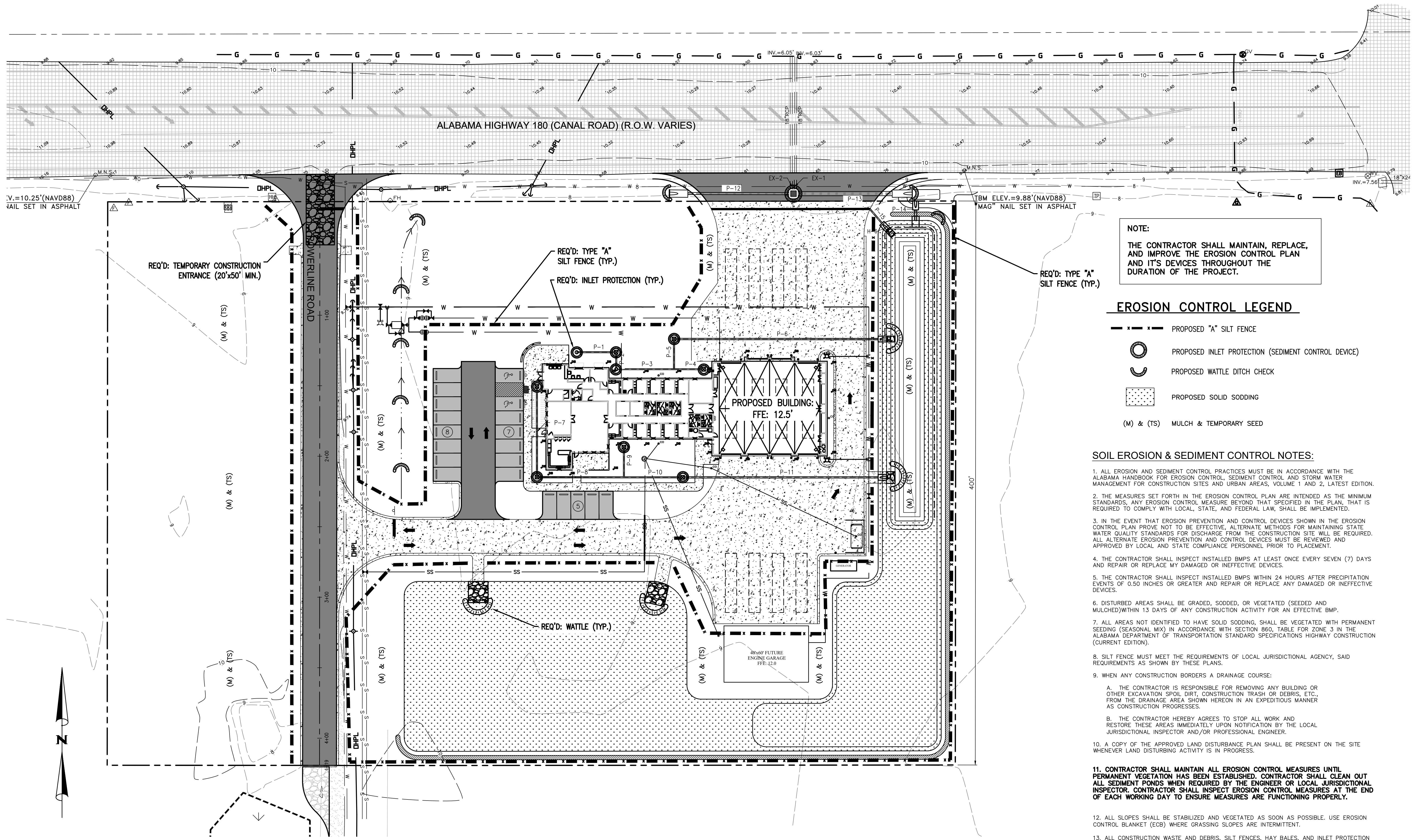


Sawgrass
 ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

UTILITY PLAN
 FIRE STATION NO. 5
 CITY OF ORANGE BEACH



SCALE: 1"=30'
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 11 OF 20



NOTE:
 THE CONTRACTOR SHALL MAINTAIN, REPLACE, AND IMPROVE THE EROSION CONTROL PLAN AND ITS DEVICES THROUGHOUT THE DURATION OF THE PROJECT.

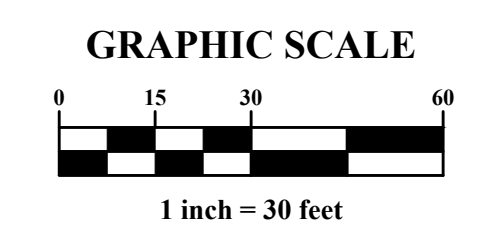
EROSION CONTROL LEGEND

- - - x - - - PROPOSED "A" SILT FENCE
- PROPOSED INLET PROTECTION (SEDIMENT CONTROL DEVICE)
- ⤿ PROPOSED WATTLE DITCH CHECK
- ▨ PROPOSED SOLID SODDING
- (M) & (TS) MULCH & TEMPORARY SEED

SOIL EROSION & SEDIMENT CONTROL NOTES:

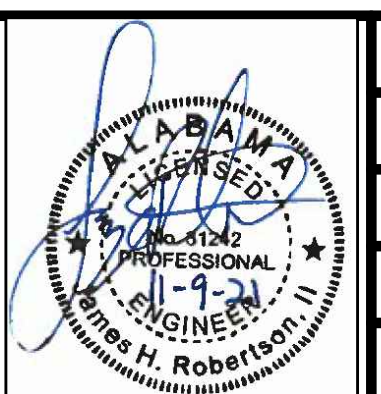
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT FOR CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1 AND 2, LATEST EDITION.
2. THE MEASURES SET FORTH IN THE EROSION CONTROL PLAN ARE INTENDED AS THE MINIMUM STANDARDS, ANY EROSION CONTROL MEASURE BEYOND THAT SPECIFIED IN THE PLAN, THAT IS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW, SHALL BE IMPLEMENTED.
3. IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY LOCAL AND STATE COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.
4. THE CONTRACTOR SHALL INSPECT INSTALLED BMP'S AT LEAST ONCE EVERY SEVEN (7) DAYS AND REPAIR OR REPLACE MY DAMAGED OR INEFFECTIVE DEVICES.
5. THE CONTRACTOR SHALL INSPECT INSTALLED BMP'S WITHIN 24 HOURS AFTER PRECIPITATION EVENTS OF 0.50 INCHES OR GREATER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
6. DISTURBED AREAS SHALL BE GRADED, SODDED, OR VEGETATED (SEEDED AND MULCHED) WITHIN 13 DAYS OF ANY CONSTRUCTION ACTIVITY FOR AN EFFECTIVE BMP.
7. ALL AREAS NOT IDENTIFIED TO HAVE SOLID SODDING, SHALL BE VEGETATED WITH PERMANENT SEEDING (SEASONAL MIX) IN ACCORDANCE WITH SECTION 860, TABLE FOR ZONE 3 IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAY CONSTRUCTION (CURRENT EDITION).
8. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
9. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
 - A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
 - B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
10. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
12. ALL SLOPES SHALL BE STABILIZED AND VEGETATED AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKET (ECB) WHERE GRASSING SLOPES ARE INTERMITTENT.
13. ALL CONSTRUCTION WASTE AND DEBRIS, SILT FENCES, HAY BALES, AND INLET PROTECTION AND OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE UPON CONSTRUCTION COMPLETION.

NUMBER:	REVISION:	DATE:



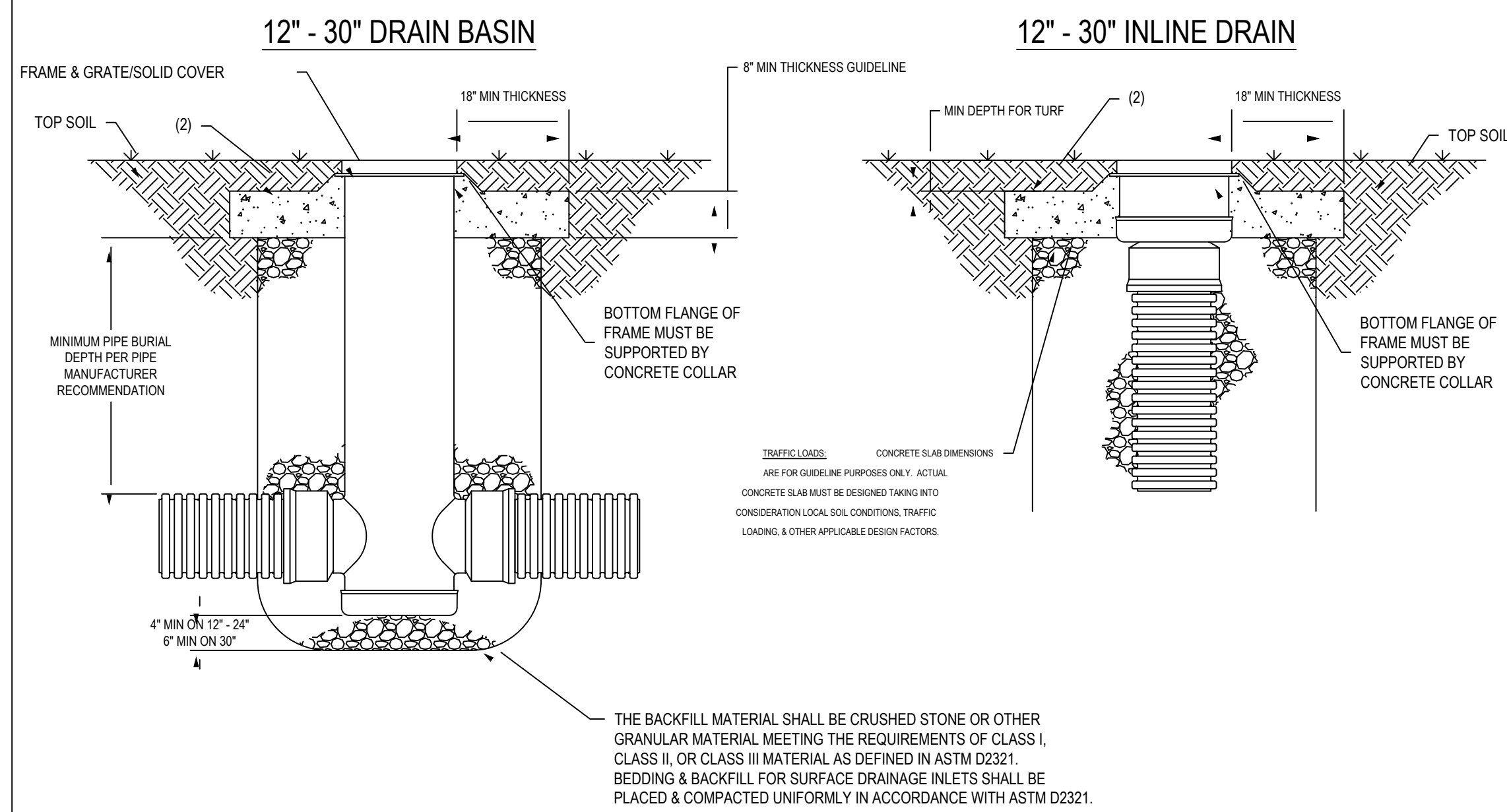
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

EROSION CONTROL PLAN
FIRE STATION NO. 5
CITY OF ORANGE BEACH



SCALE: 1"=30'
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 12 OF 20

NYLOPLAST TURF TRAFFIC INSTALLATION



- GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30' FEEDSTRAK & 12\"/>

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DATE: 01-05-09
 REVISION: 03-14-16
 SCALE: 1:25
 SHEET: 1 OF 1

Nyloplast
 3101 VERONA AVE
 BUFORD, GA 30518
 PH: (770) 852-2440
 FAX: (770) 852-2400
 WWW.NYLOPLAST.COM

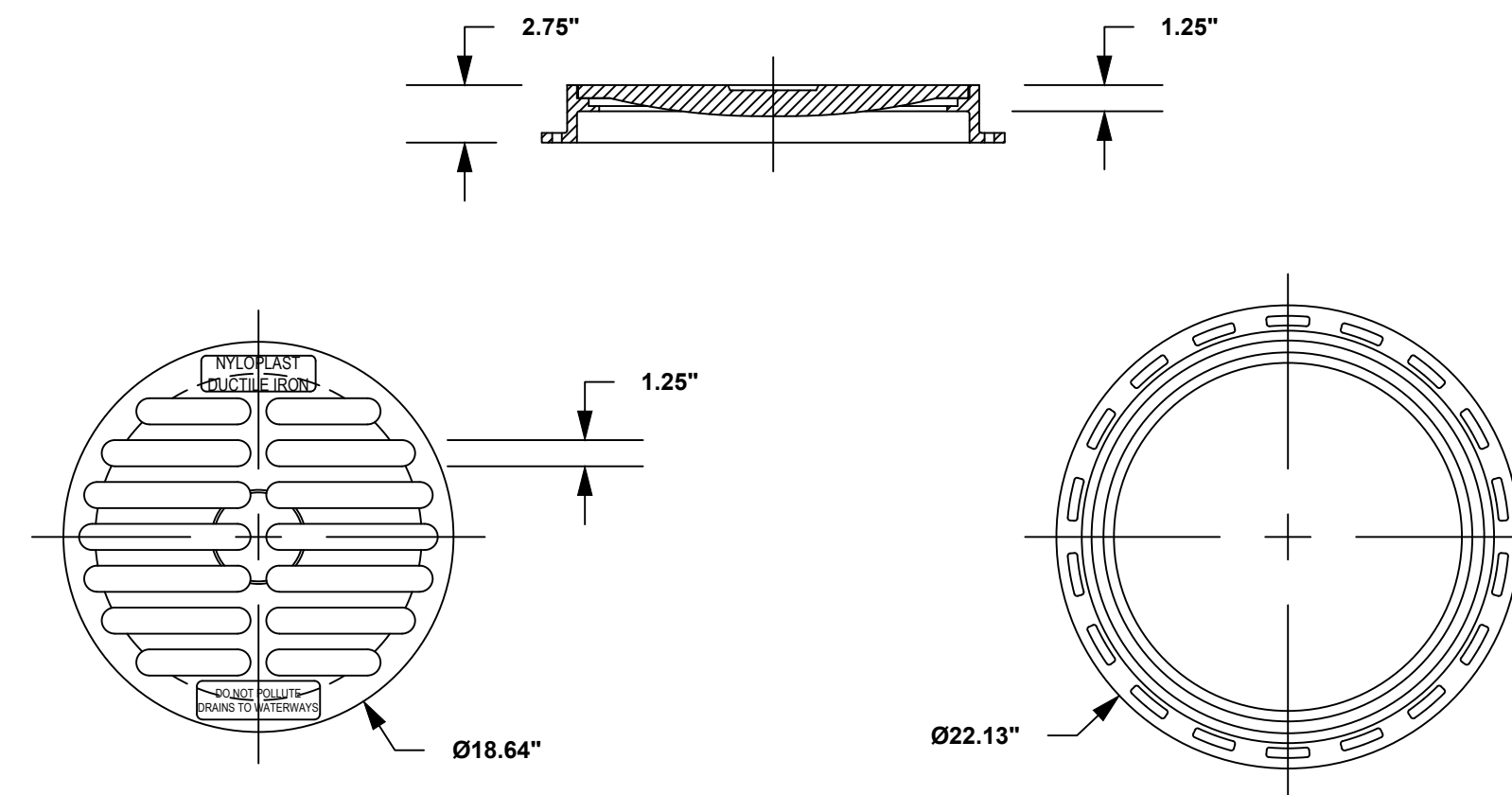
DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY. DIMENSIONS ARE IN INCHES. GRATE MEETS H-20 LOAD RATING. QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05. PAINT: CASTINGS ARE FINISHED WITH A BLACK PAINT. LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-029.

DATE: 3-4-18
 REVISION: 3-15-18
 SCALE: 1:10
 SHEET: 1 OF 1

Nyloplast
 3101 VERONA AVE
 BUFORD, GA 30518
 PH: (770) 852-2440
 FAX: (770) 852-2400
 WWW.NYLOPLAST.COM

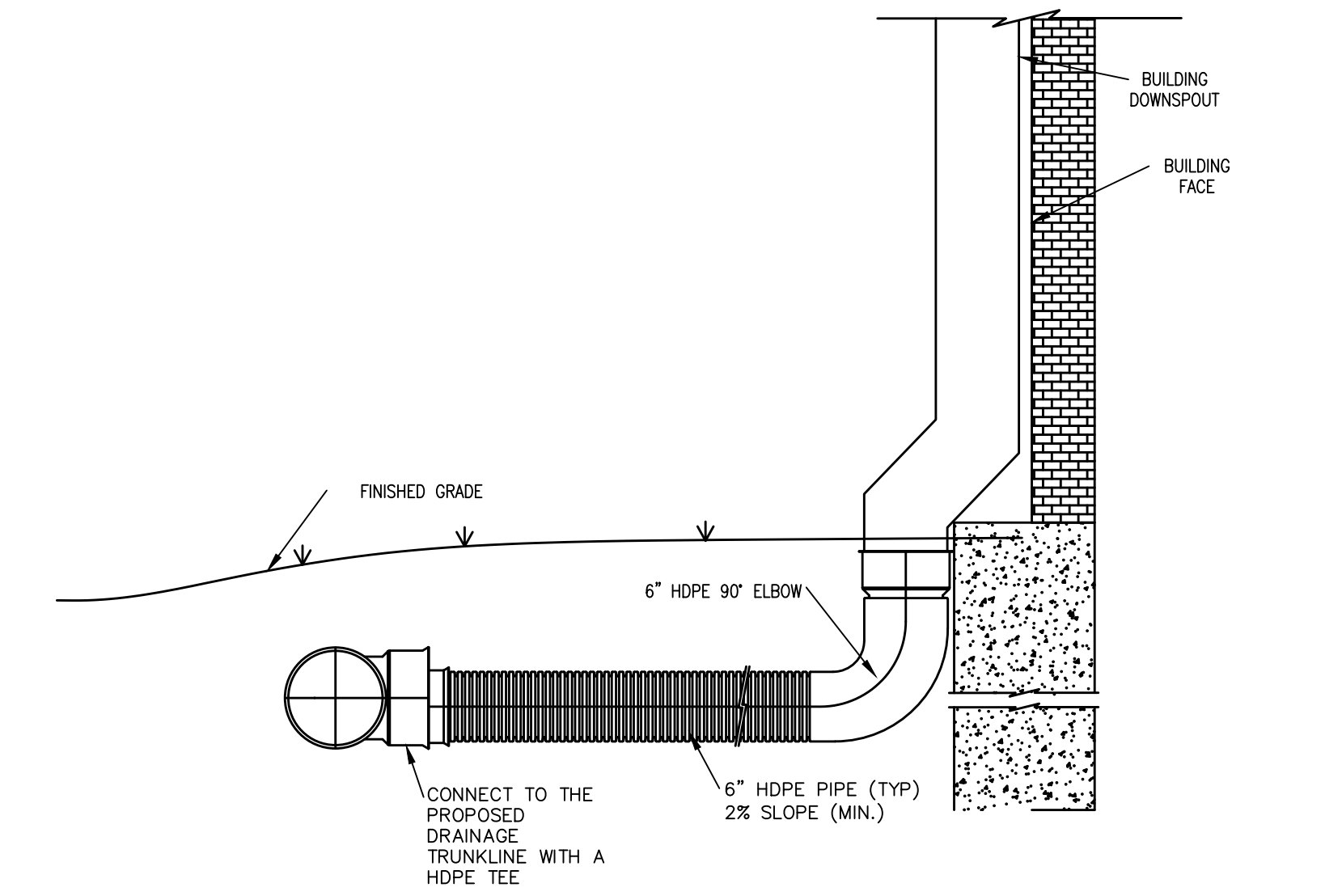
DATE: 3-15-18
 REVISION: 3-15-18
 SCALE: 1:10
 SHEET: 1 OF 1

1899CGS
 APPROX. DRAIN AREA = 116.72 SQ IN
 APPROX. WEIGHT WITH FRAME = 68.50 LBS



18 INCH STANDARD GRATE INLET TOP

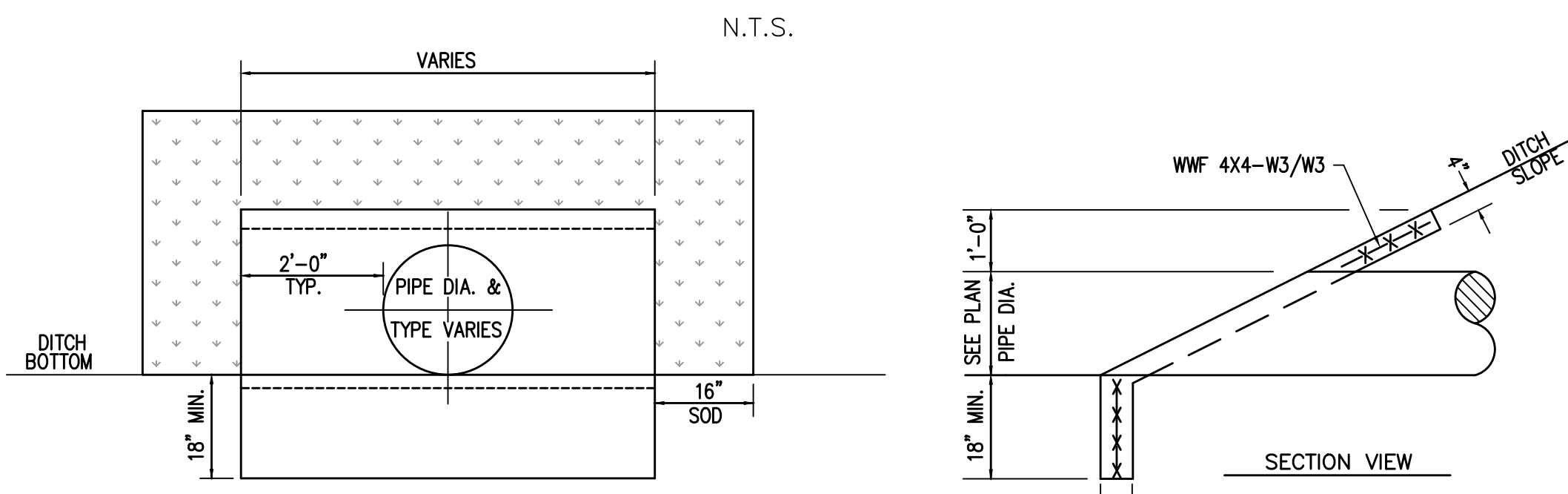
N.T.S.



DOWNSPOUT CONNECTION DETAIL

N.T.S.

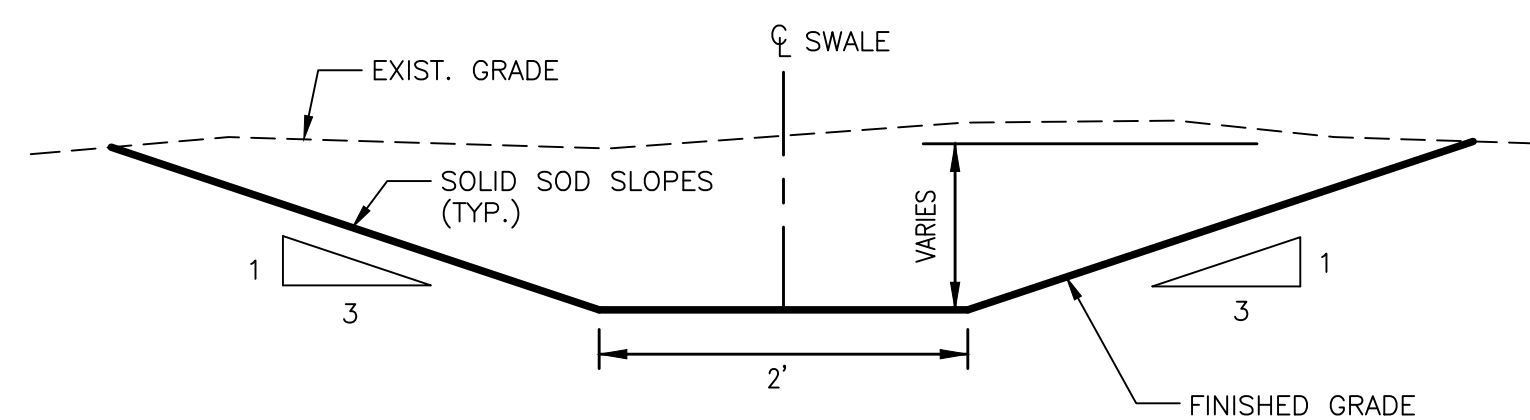
NYLOPLAST INLET DETAILS



SINGLE PIPE FRONT VIEW

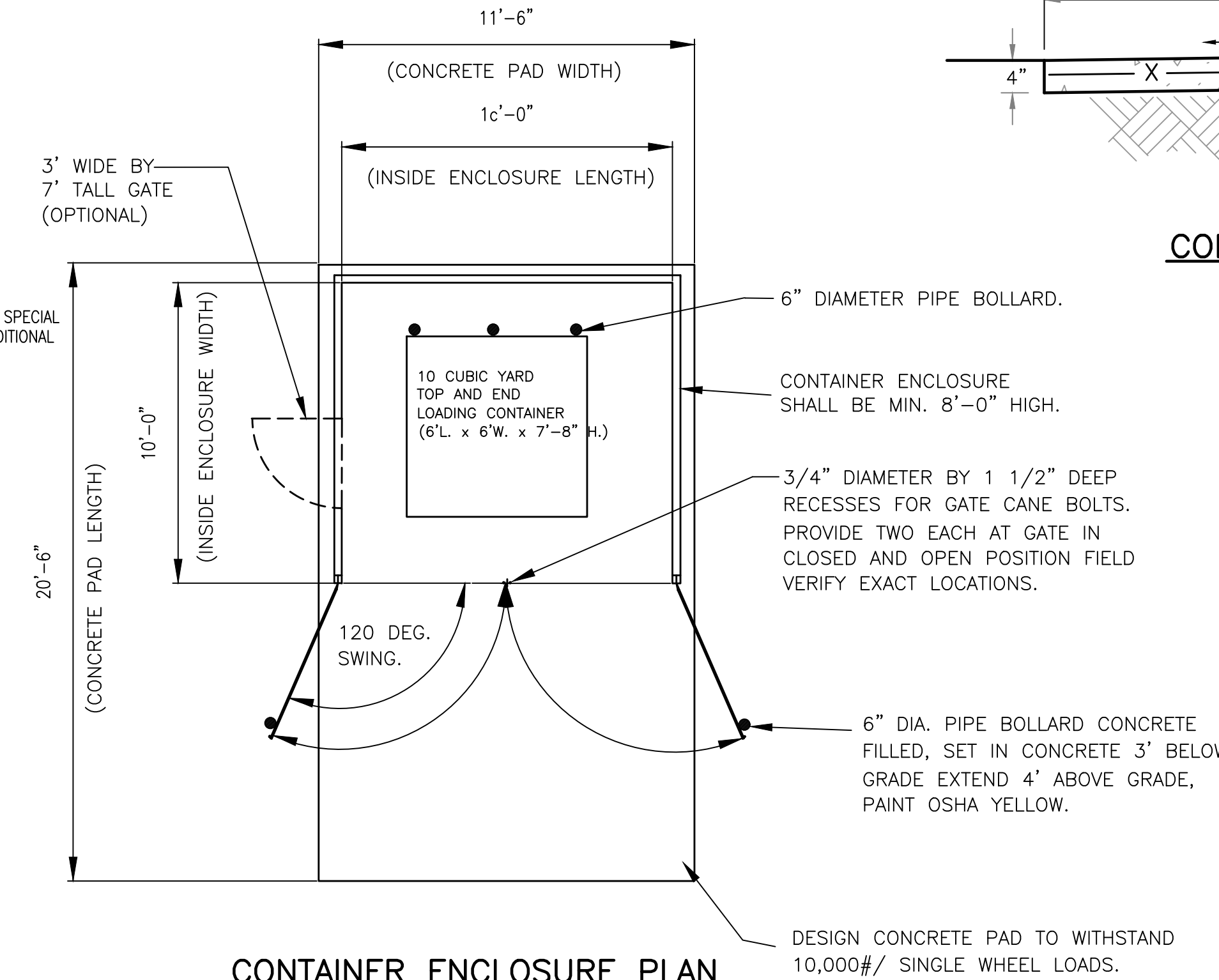
CONCRETE SLOPED HEADWALL DETAIL

N.T.S.



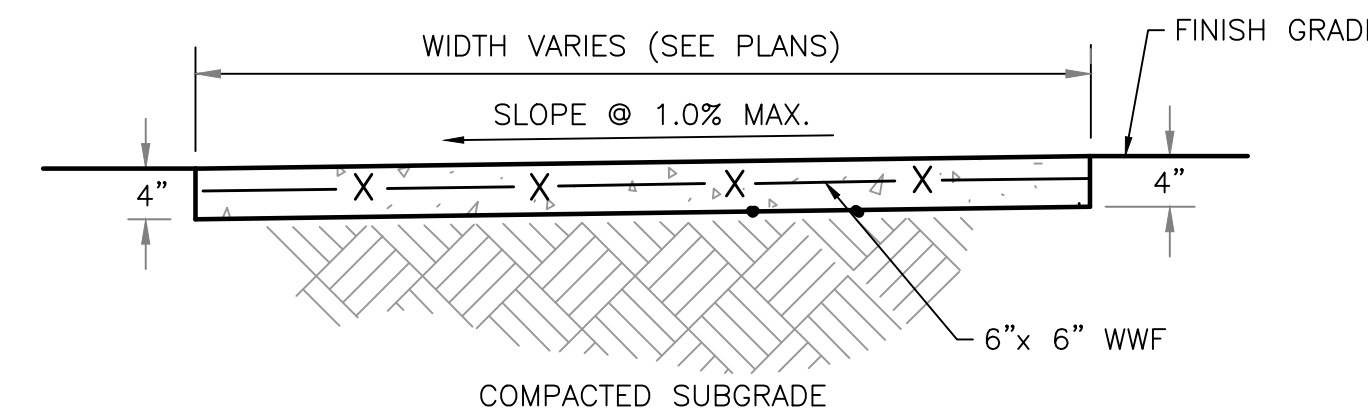
DRAINAGE SWALE DETAIL

N.T.S.



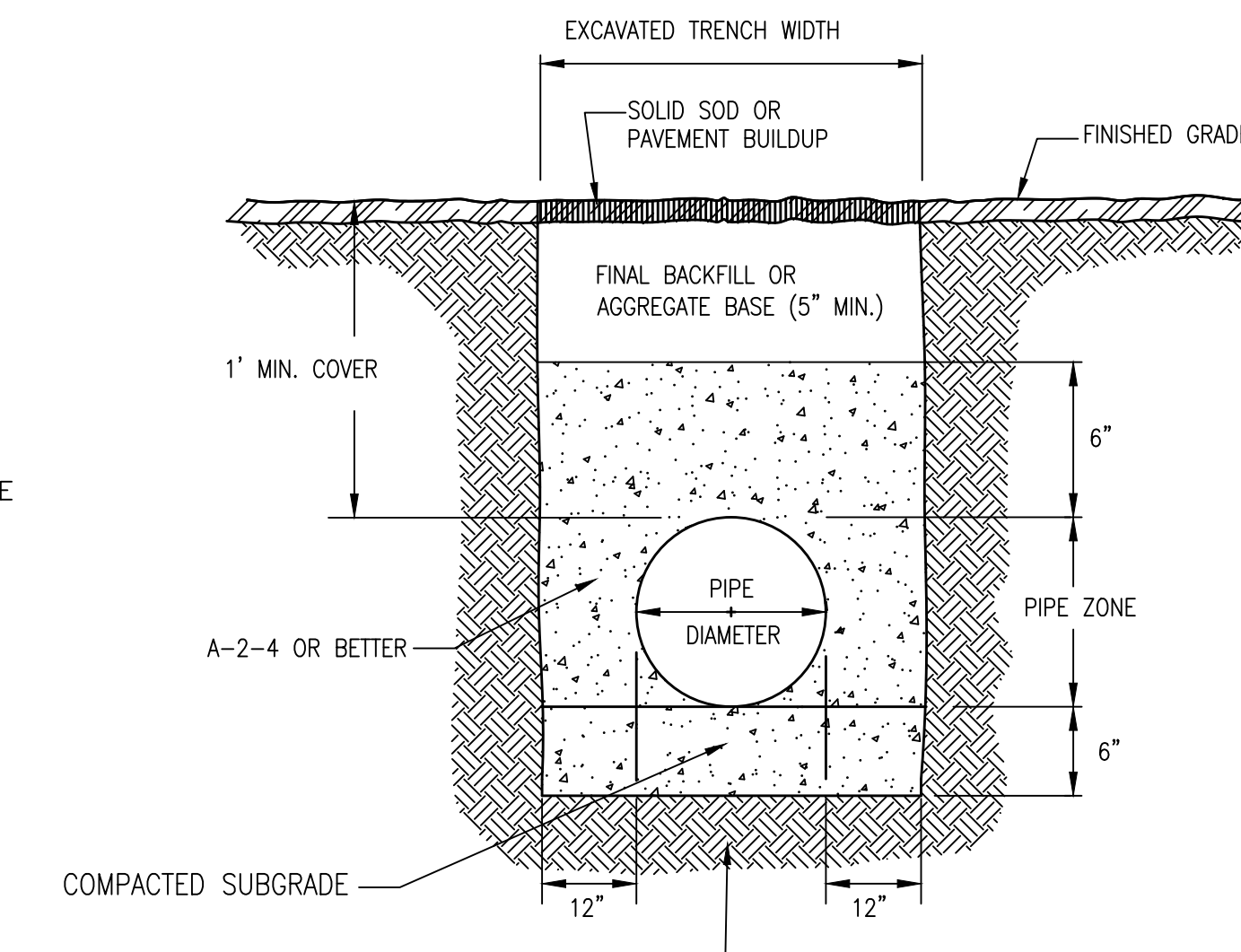
CONTAINER ENCLOSURE PLAN

N.T.S.



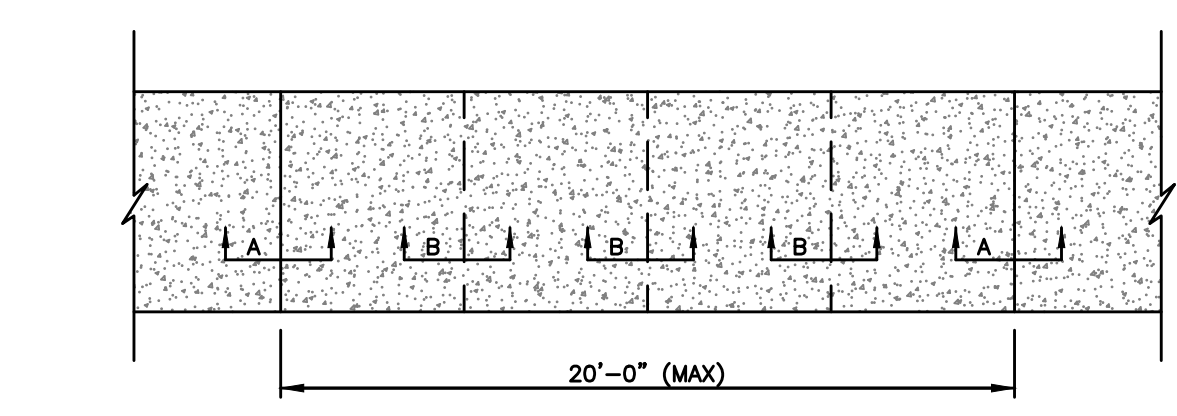
CONCRETE SIDEWALK

N.T.S.



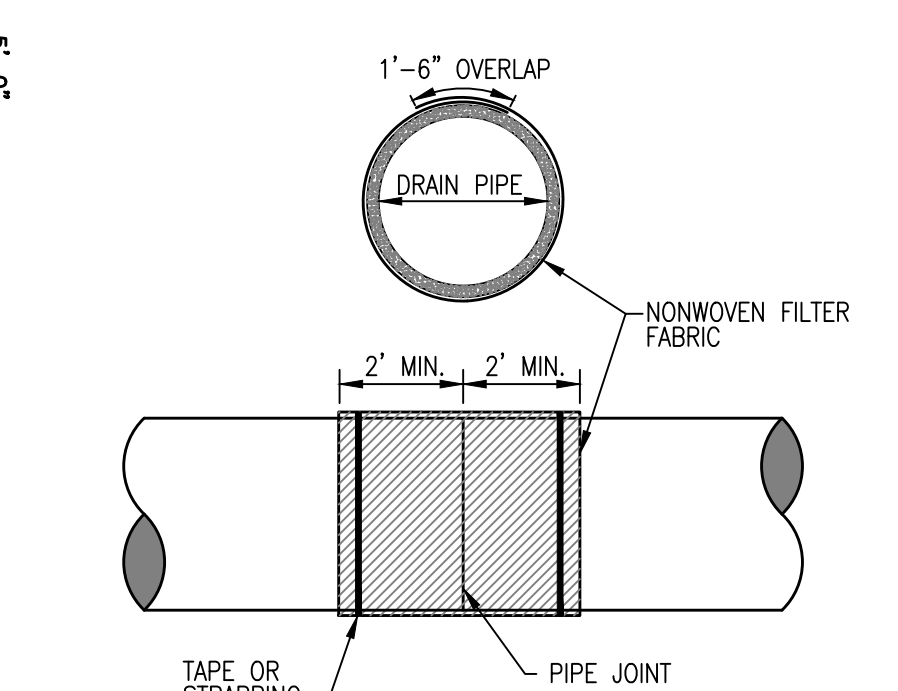
TRENCH BACKFILL DETAIL

N.T.S.



CONCRETE WALK DETAIL

N.T.S.



PIPE JOINT WRAP

N.T.S.

NOTES:

- PROVIDE 5 FEET BETWEEN CONTROL JOINTS AND 20 FEET BETWEEN EXPANSION JOINTS.
- ALL EXPANSION JOINTS SHALL BE 1/2" THICK, NEOPRENE MATERIAL.
- EXPANSION MATERIAL TO BE USED AT ALL PC'S, PT'S AND STRUCTURES.

NOTE:
 JOINTS ON ALL STORM DRAIN PIPES SHALL BE PIPE WRAPPED WITH A NON-WOVEN FILTER FABRIC AS SHOWN IN THIS DETAIL.

DWG: INFO: SA - CLIENTS: V - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING'S PRODUCTION - DWG'S TITLE: NOTES: DETAILS: DWG - 11/10/2021 - 2:20:59 PM

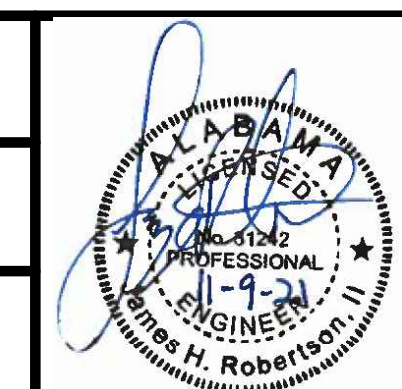
NUMBER:	REVISION:	DATE:

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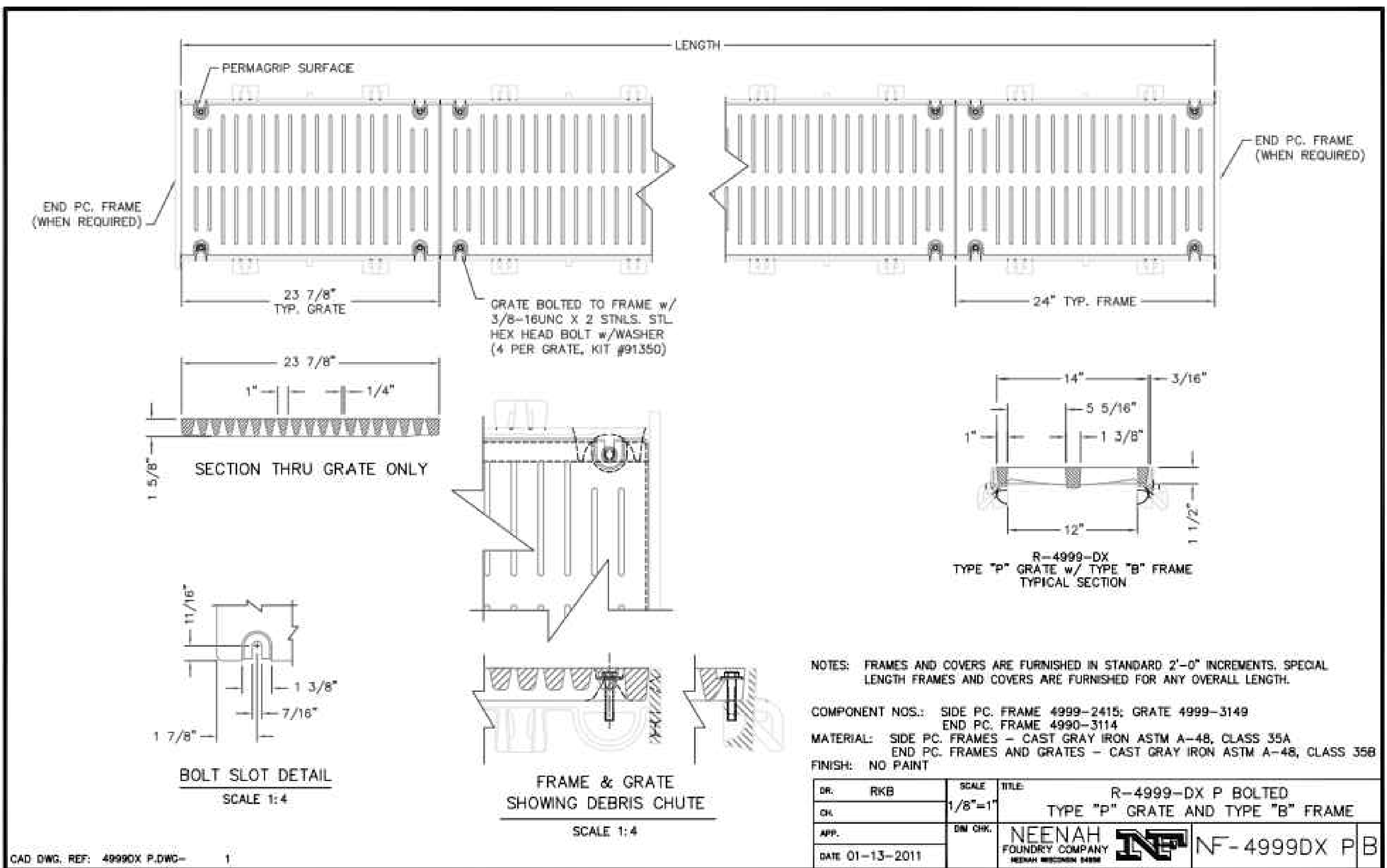
CIVIL CONSTRUCTION DETAILS

FIRE STATION NO. 5

CITY OF ORANGE BEACH



SCALE: N.T.S.
 DATE: SEPTEMBER, 2021
 DRAWN BY: JNF
 CHECKED BY: JHR
 SHEET: 13 OF 20



NOTES: FRAMES AND COVERS ARE FURNISHED IN STANDARD 2'-0" INCREMENTS. SPECIAL LENGTH FRAMES AND COVERS ARE FURNISHED FOR ANY OVERALL LENGTH.

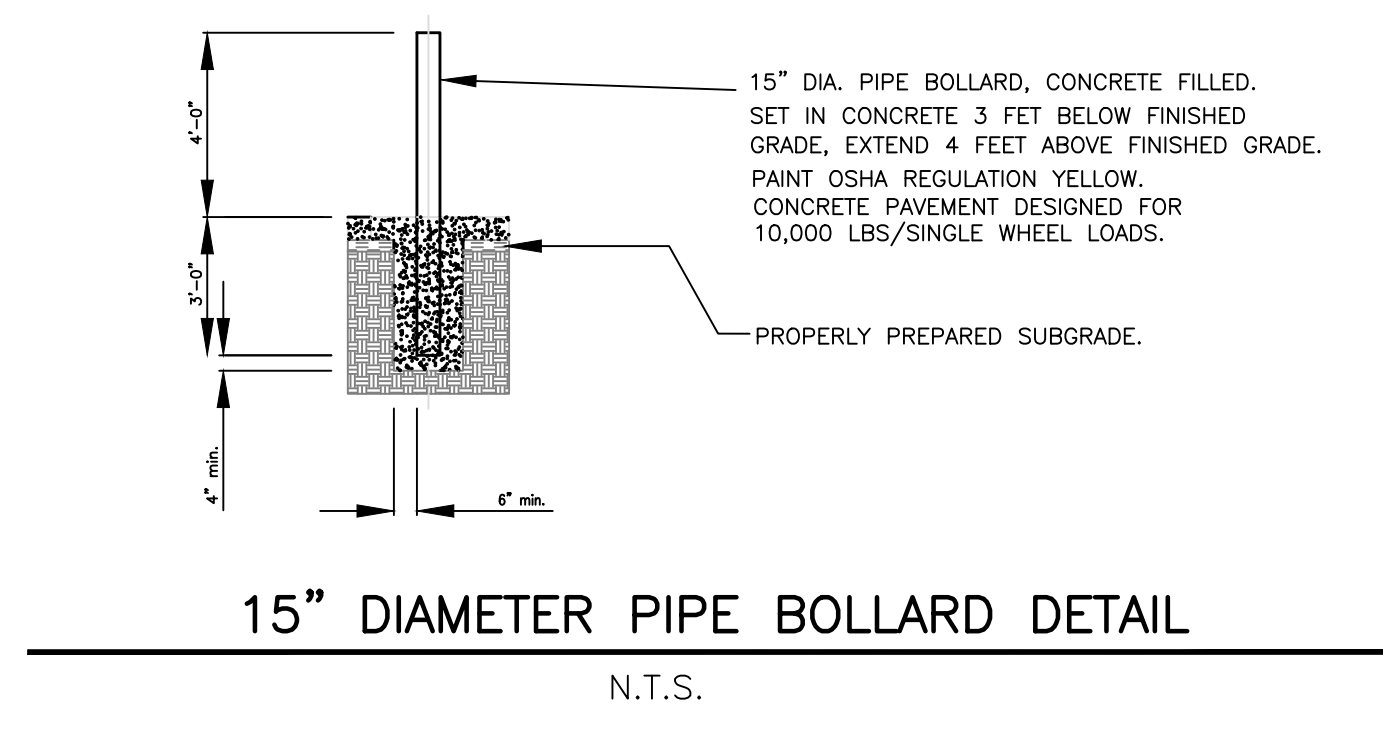
COMPONENT NOS.: SIDE PC. FRAME 4999-2415; GRATE 4999-3149
 END PC. FRAME 4990-3114

MATERIAL: SIDE PC. FRAMES - CAST GRAY IRON ASTM A-48, CLASS 35A
 END PC. FRAMES AND GRATES - CAST GRAY IRON ASTM A-48, CLASS 35B

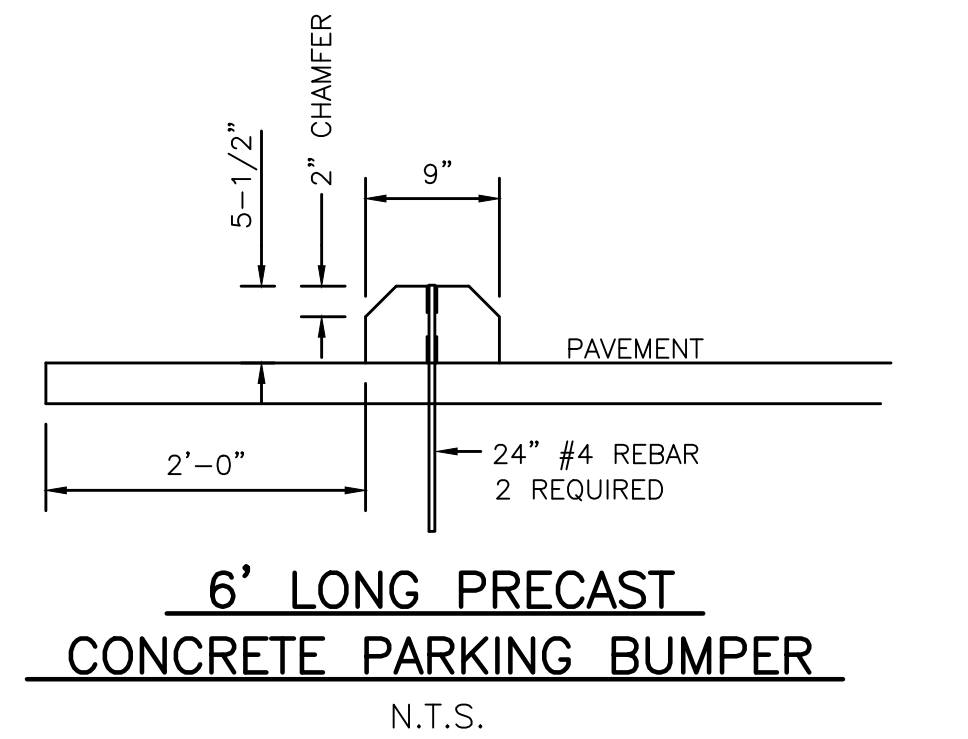
FINISH: NO PAINT

DR.	RKB	SCALE	1/8"=1'	TITLE	R-4999-DX P BOLTED TYPE "P" GRATE AND TYPE "B" FRAME
CHK.		DWG. CHK.		NEENAH FOUNDRY COMPANY	
APP.				NEENAH MICHIGAN BRANCH	
DATE	01-13-2011				NF-4999DX P/B

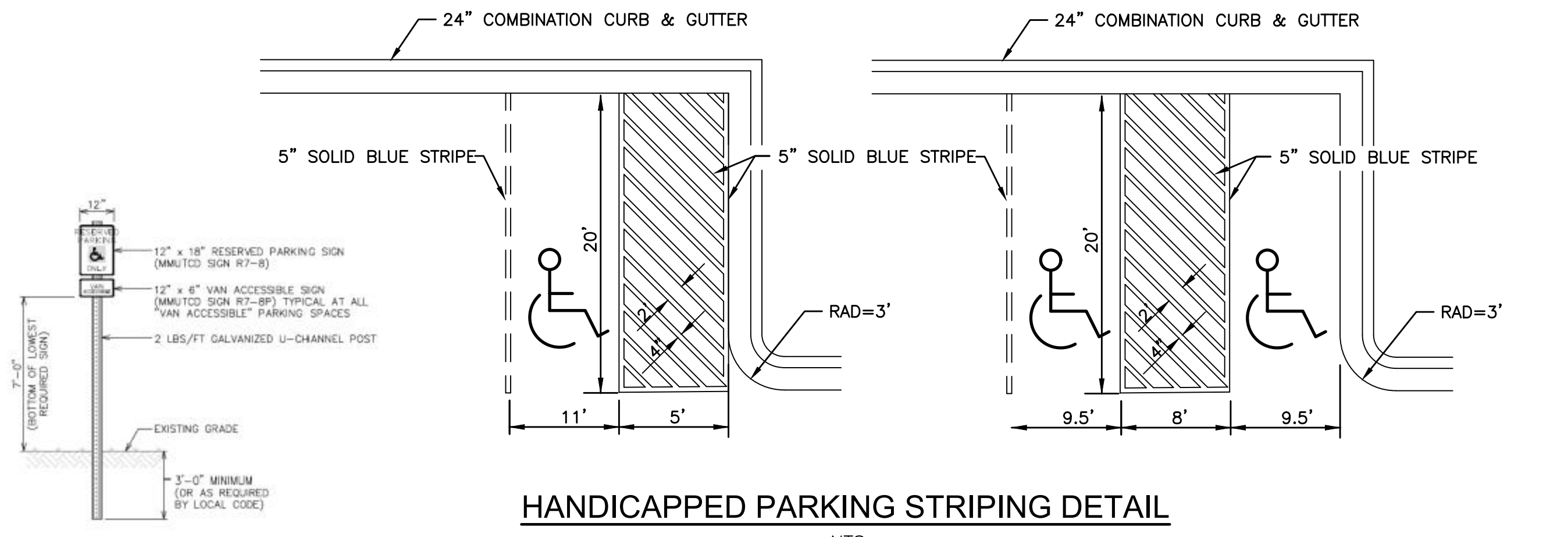
CAD DWG. REF: 4999DX P.DWG- 1



15" DIAMETER PIPE BOLLARD DETAIL



6' LONG PRECAST CONCRETE PARKING BUMPER

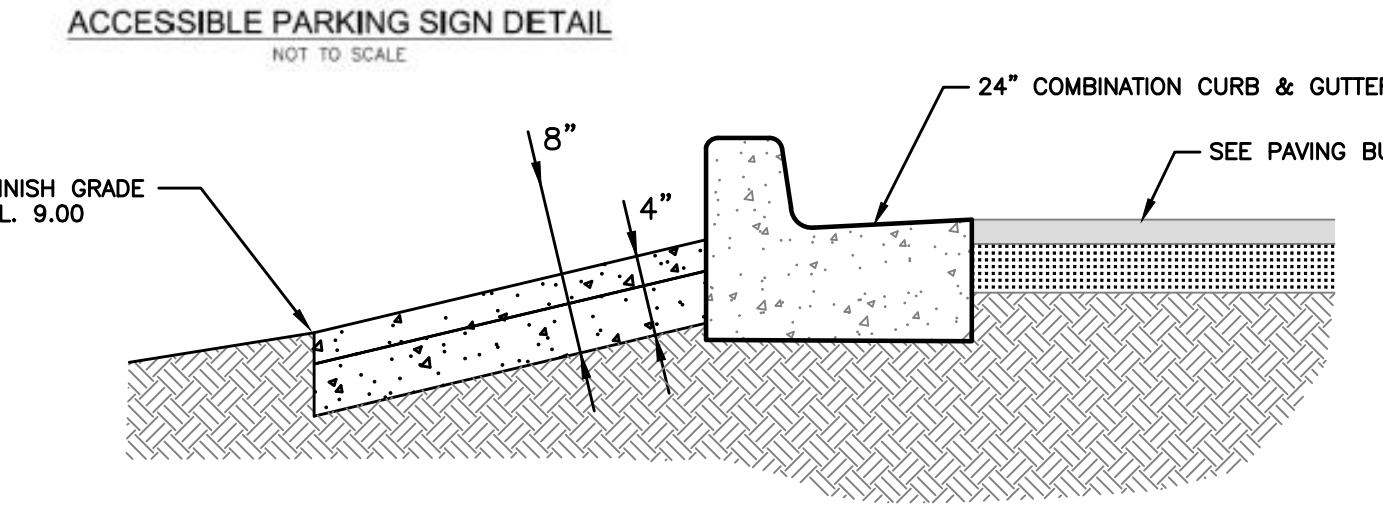


HANDICAPPED PARKING STRIPING DETAIL

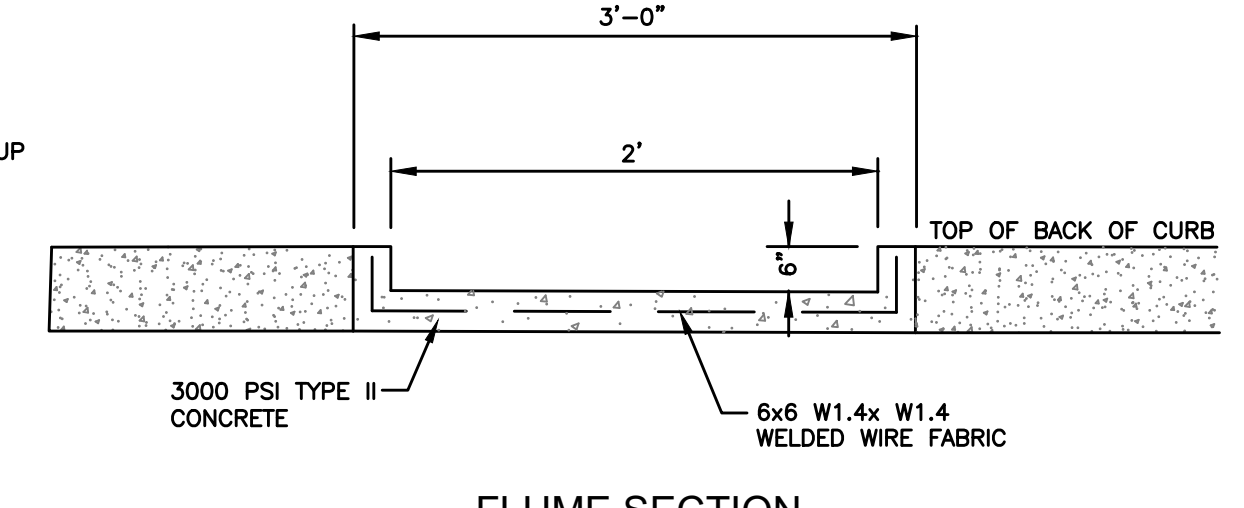
NOTES:

- ONE REQUIRED AT EACH ACCESSIBLE PARKING SPACE.
- WHERE ACCESSIBLE SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED ON BOTH SIDES.
- SIGNS SHALL BE MOUNTED TO POST WITH GALVANIZED OR CADIUM PLATED 5/16" DIAMETER STEEL BOLTS, NUTS AND WASHERS. THE CONTRACTOR SHALL SUPPLY AND INSTALL 5/8" W/ON WASHERS BETWEEN BOLT HEADS AND SIGN FACE TO PROTECT FINISH.
- SIGNS SHALL CONFORM TO THE CURRENT "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" PUBLISHED BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) AND MICHIGAN STATE POLICE (MSP).

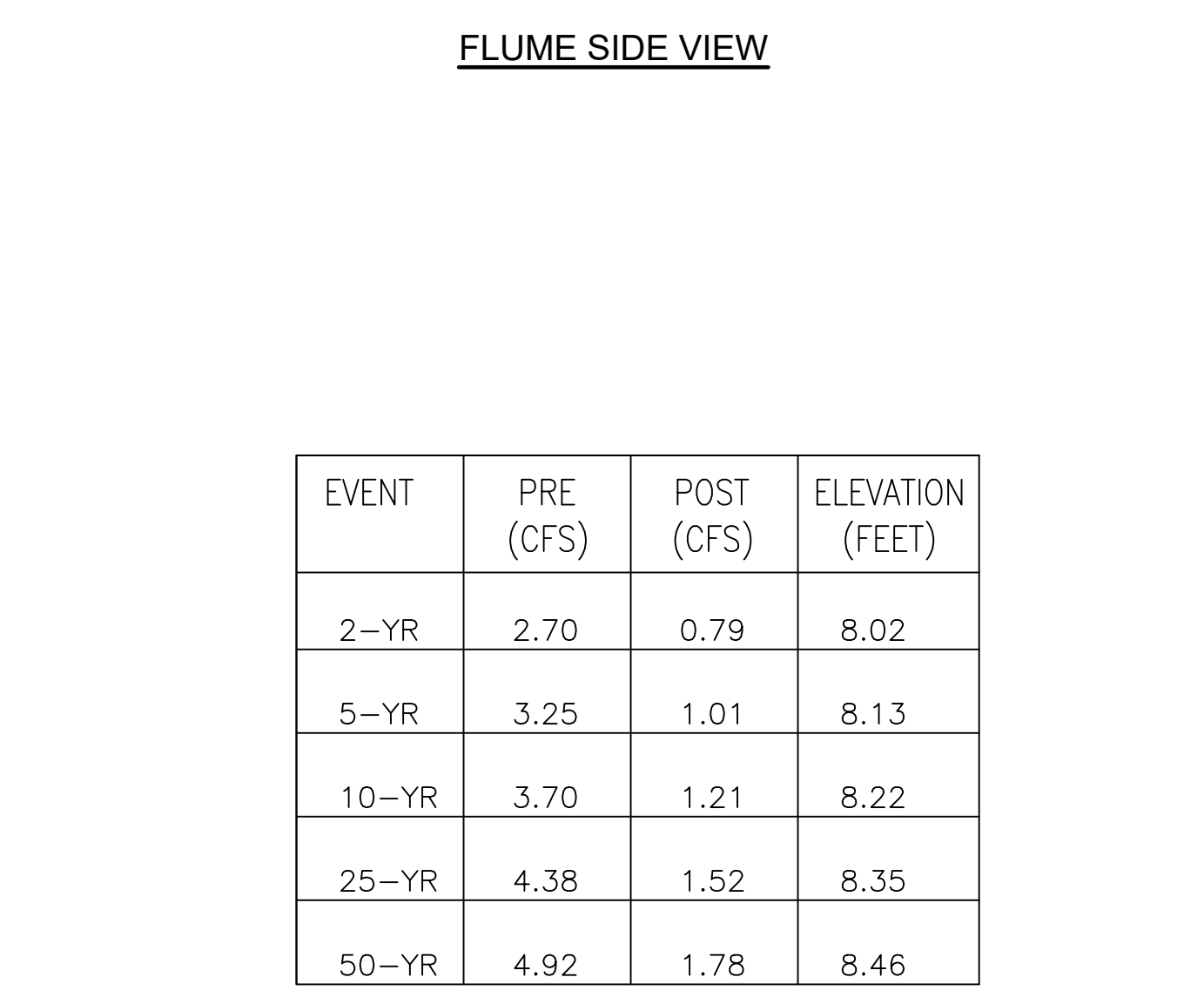
NOTE: PARKING STRIPING SHALL BE DONE PER THE REQUIREMENTS OF ALDOT ITEM 701-A SOLID WHITE CLASS 1, TYPE A, 5" WIDE STRIPES. MATERIALS AND CONSTRUCTION REQUIREMENTS OF 701-A, SHALL BE ADHERED TO. HANDICAPPED PARKING SPACES SHALL BE STRIPED IN SOLID BLUE, WITH ACCESS' AISLES STRIPED AT TWO FEET ON CENTER AND STANDARD HANDICAPPED SYMBOLS.



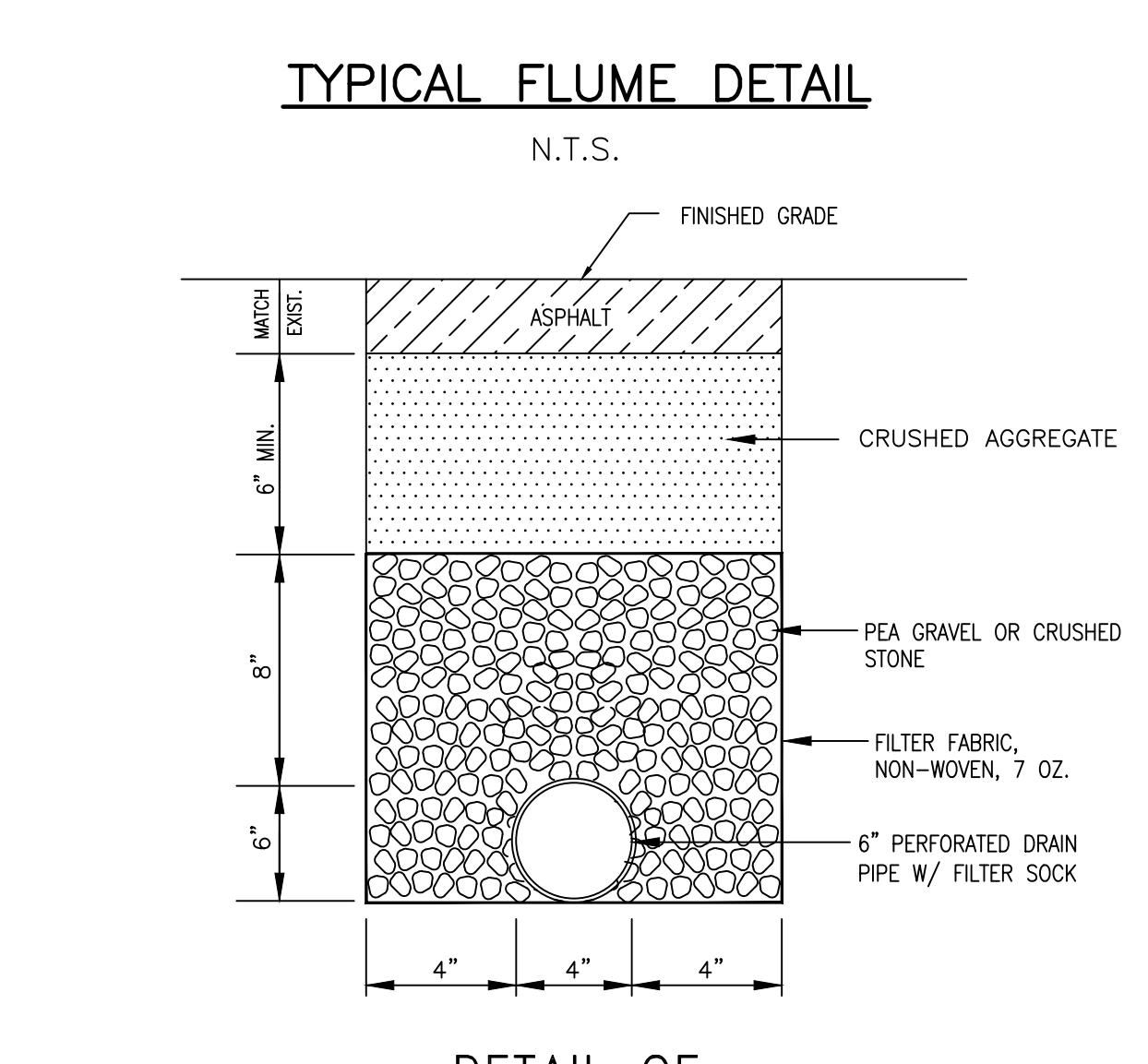
ACCESSIBLE PARKING SIGN DETAIL



FLUME SECTION



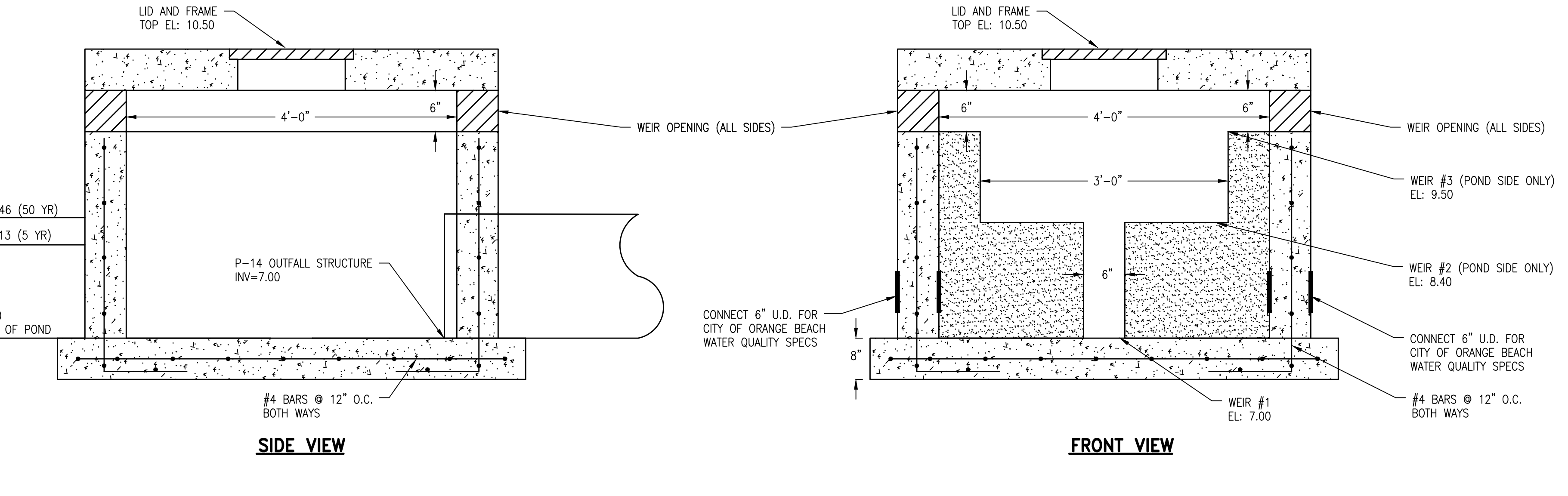
FLUME SIDE VIEW



TYPICAL FLUME DETAIL

EVENT	PRE (CFS)	POST (CFS)	ELEVATION (FEET)
2-YR	2.70	0.79	8.02
5-YR	3.25	1.01	8.13
10-YR	3.70	1.21	8.22
25-YR	4.38	1.52	8.35
50-YR	4.92	1.78	8.46

DETENTION POND CALCULATIONS



CONCRETE OUTFALL STRUCTURE

DETAIL OF 6" UNDERDRAIN PIPE

NUMBER	REVISION	DATE

CIVIL CONSTRUCTION DETAILS

FIRE STATION NO. 5

CITY OF ORANGE BEACH

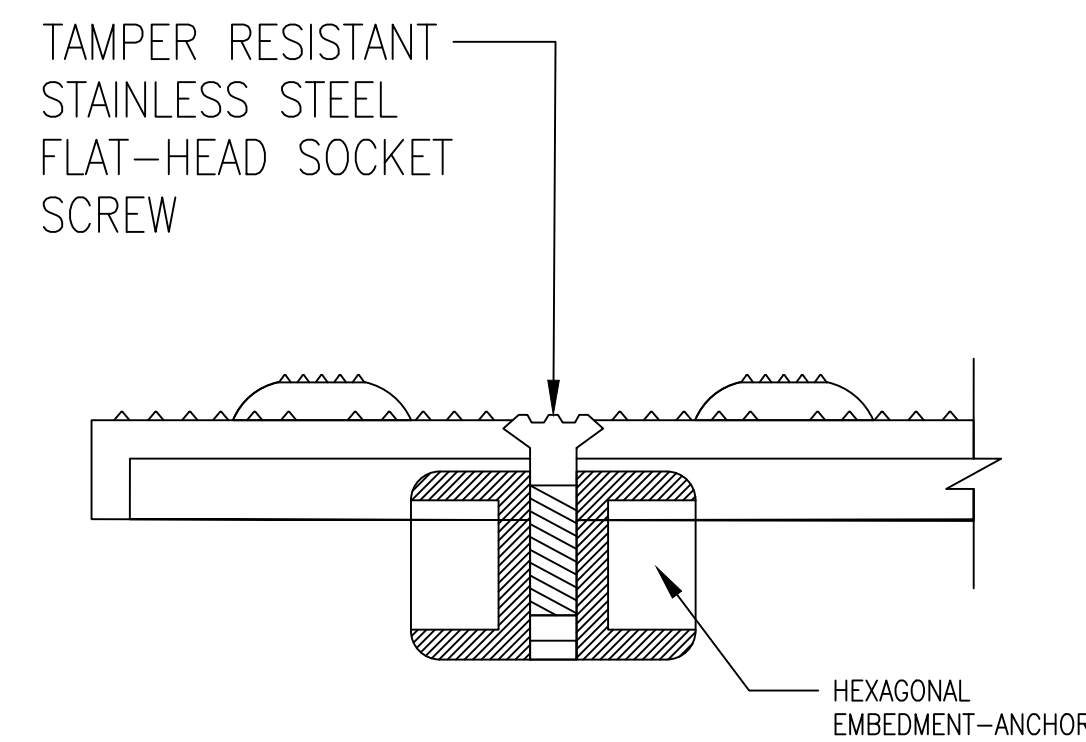
SCALE: N.T.S.

DATE: SEPTEMBER, 2021

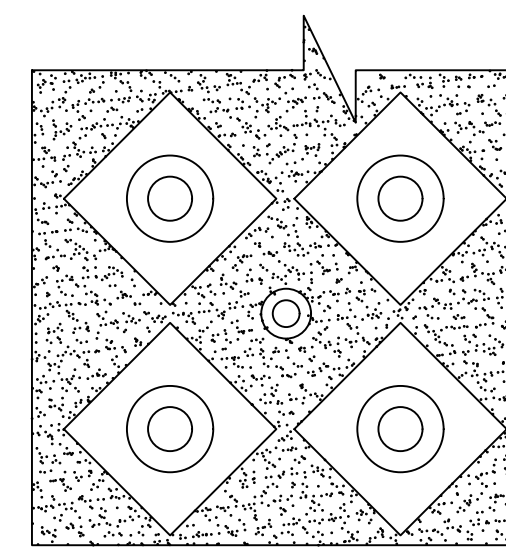
DRAWN BY: JNF

CHECKED BY: JHR

SHEET: 14 OF 20

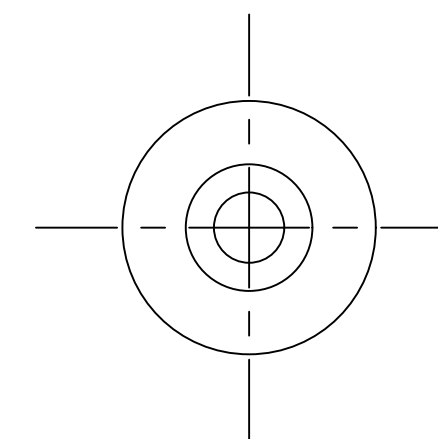


DETAIL-1

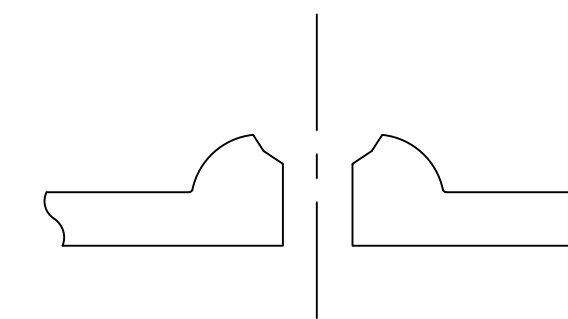


DETAIL-2

"ARMOR TILE-REPLACEMENT"
FOR NEW CONSTRUCTION
N.T.S.

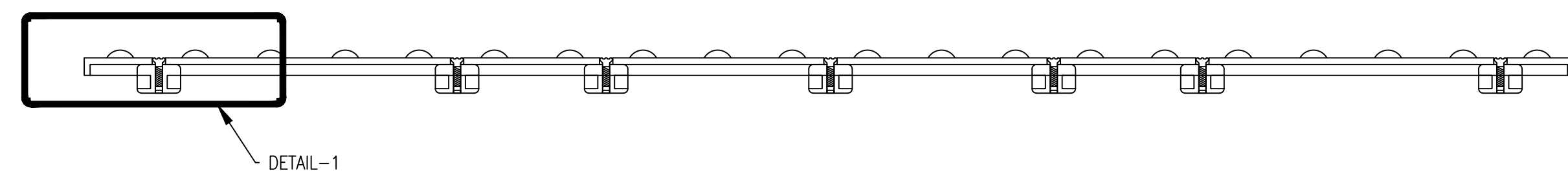
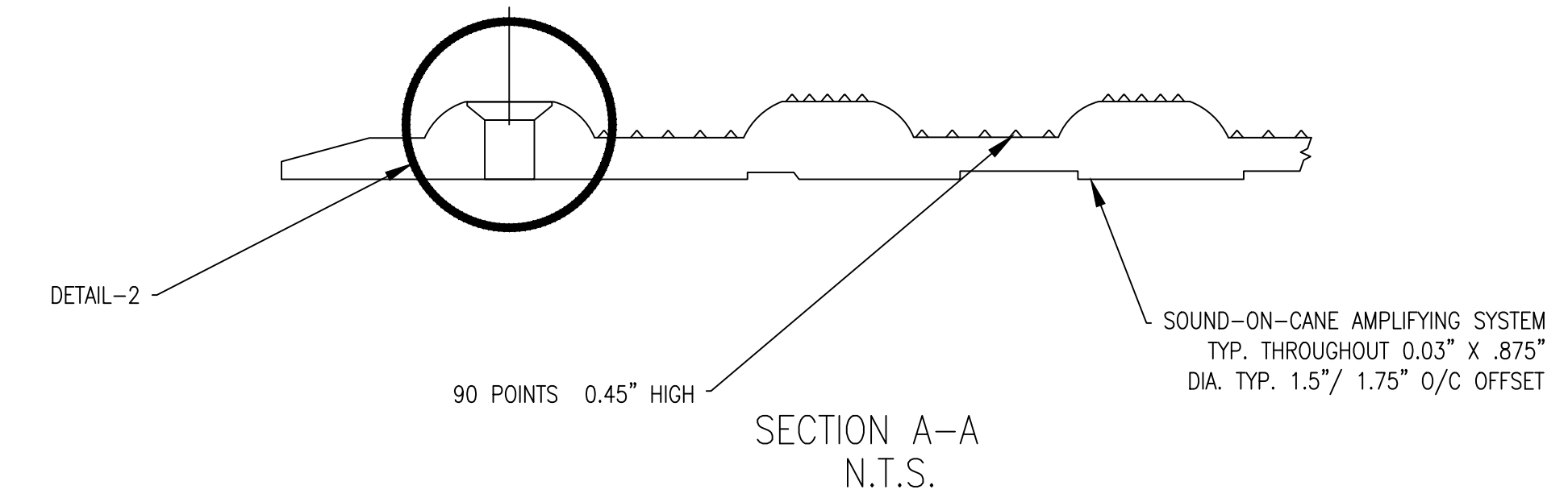


TILE PLAN
TRUNCATED DOME
FASTER LOCATION

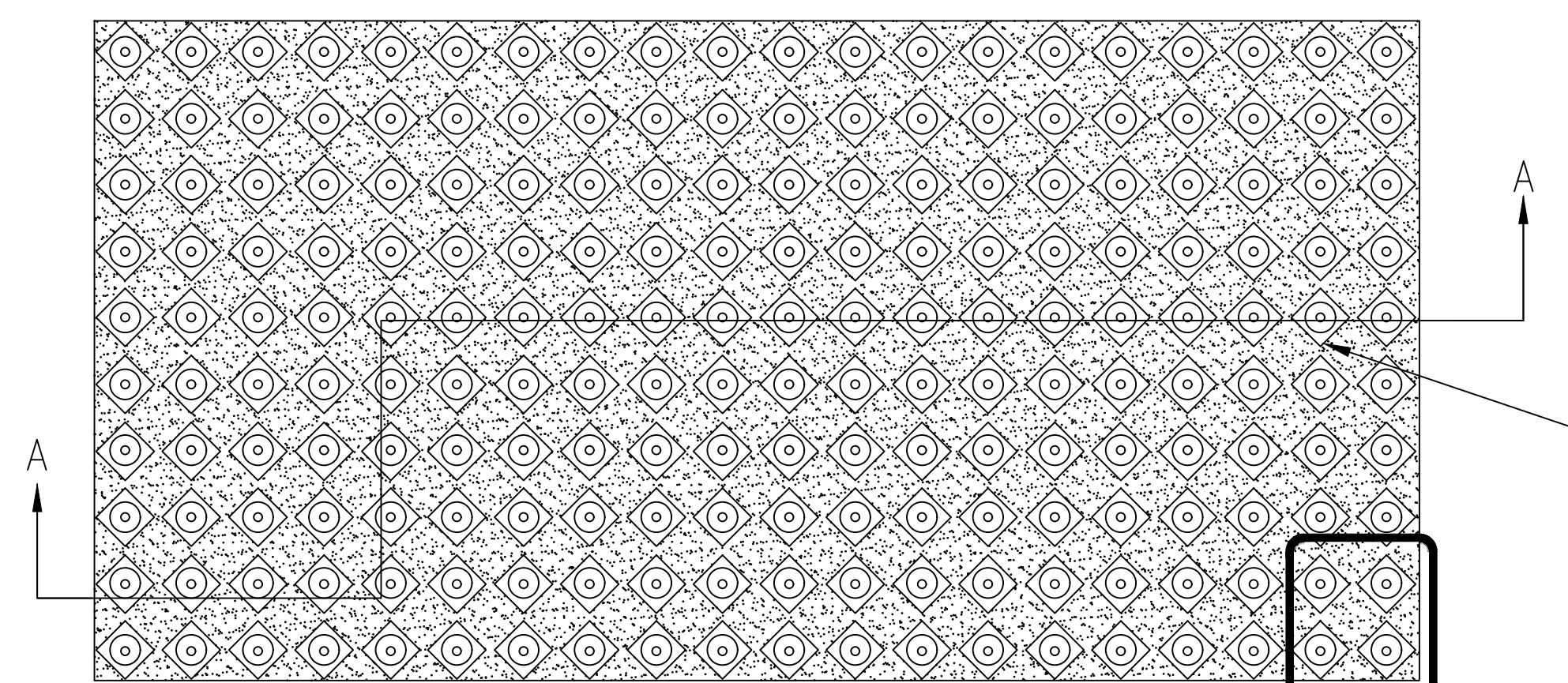
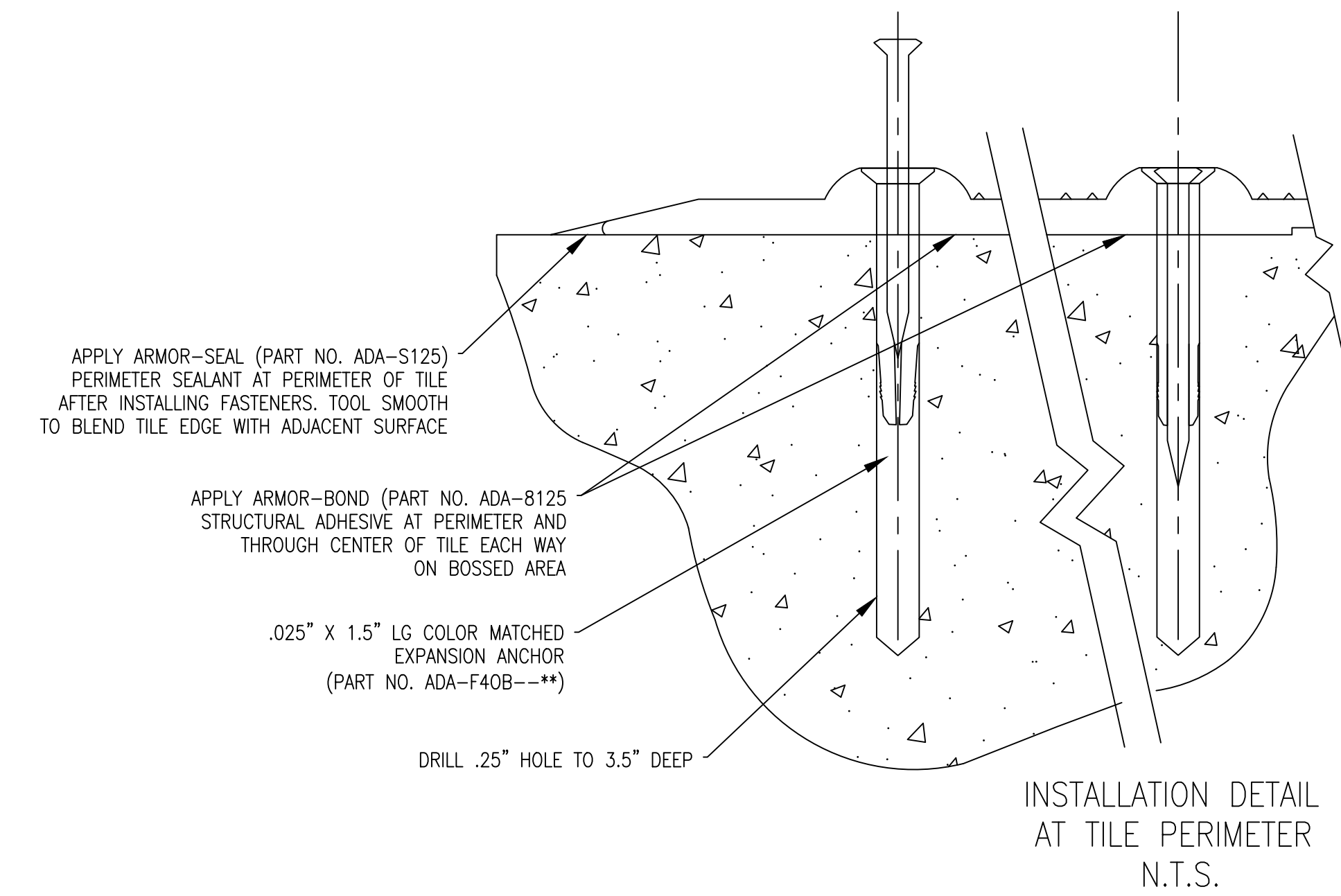


TILE SECTION
TRUNCATED DOME
FASTER LOCATION

DETAIL-2
N.T.S.

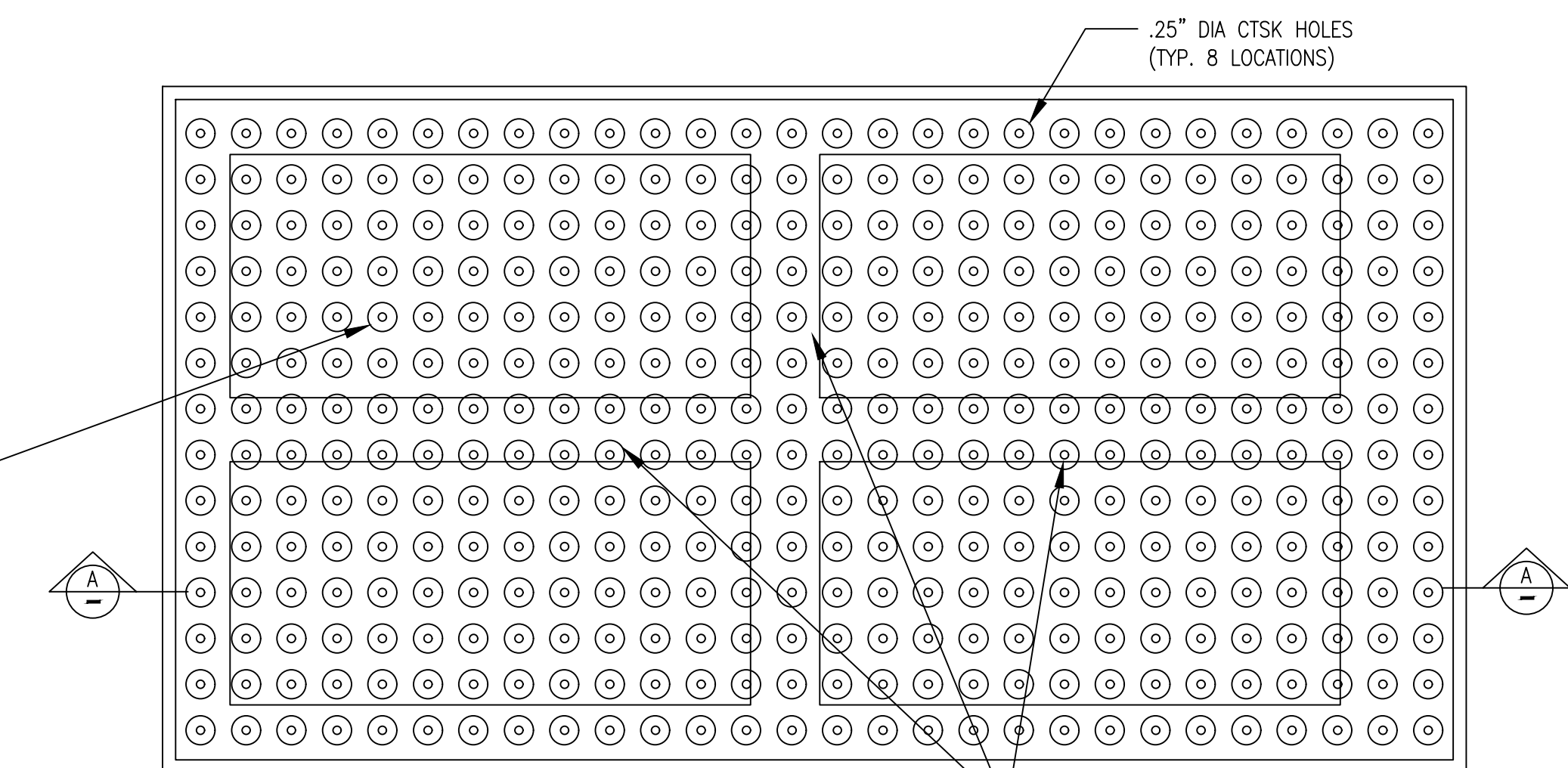


SECTION A-A
N.T.S.



TILE-TOP VIEW
N.T.S.

NOTE. ALL DOMES SHALL BE COLONIAL RED.
FEDERAL COLOR NUMBER 20109
WHERE MULTIPLE TRUNCATED DOME
INSERTS ARE REQUIRED CUT & INSTALL AS
PER MANUFACTURERS RECOMMENDATIONS (TYP)
MODIFICATIONS TO TRUNCATED DOME
INSERTS SHALL BE PAID FOR UNDER PAY
ITEM 618-E2



TRUNCATED DOME STANDARD DETAIL
N.T.S.

DWG INFO: SA - CLIENTS.VL - 084 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG TITLE: NOTES - DETAILS DWG - 11/10/2021 - 2:21:07 PM

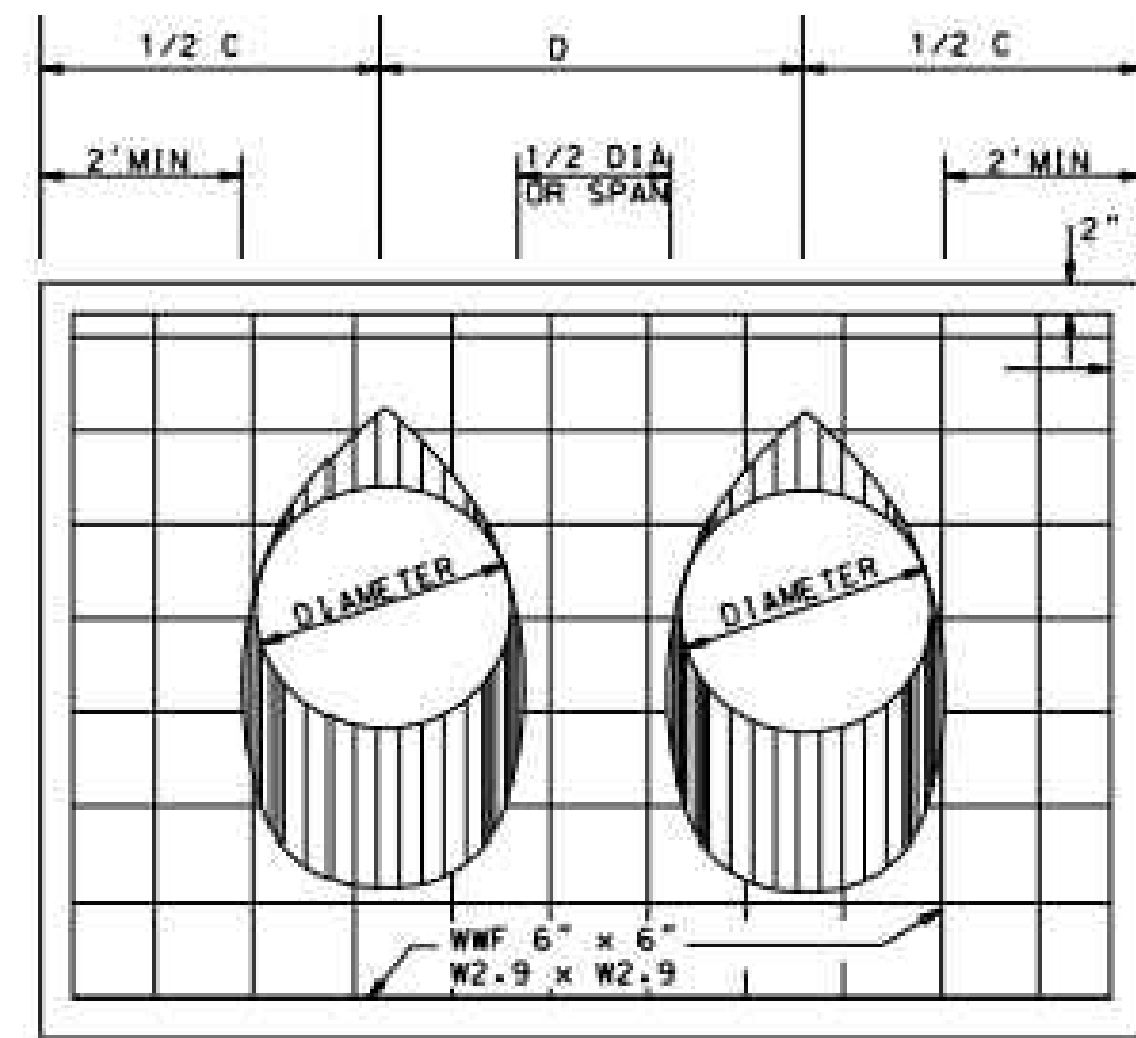
NUMBER:	REVISION:	DATE:

Sawgrass
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
30673 Sgt. E.I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

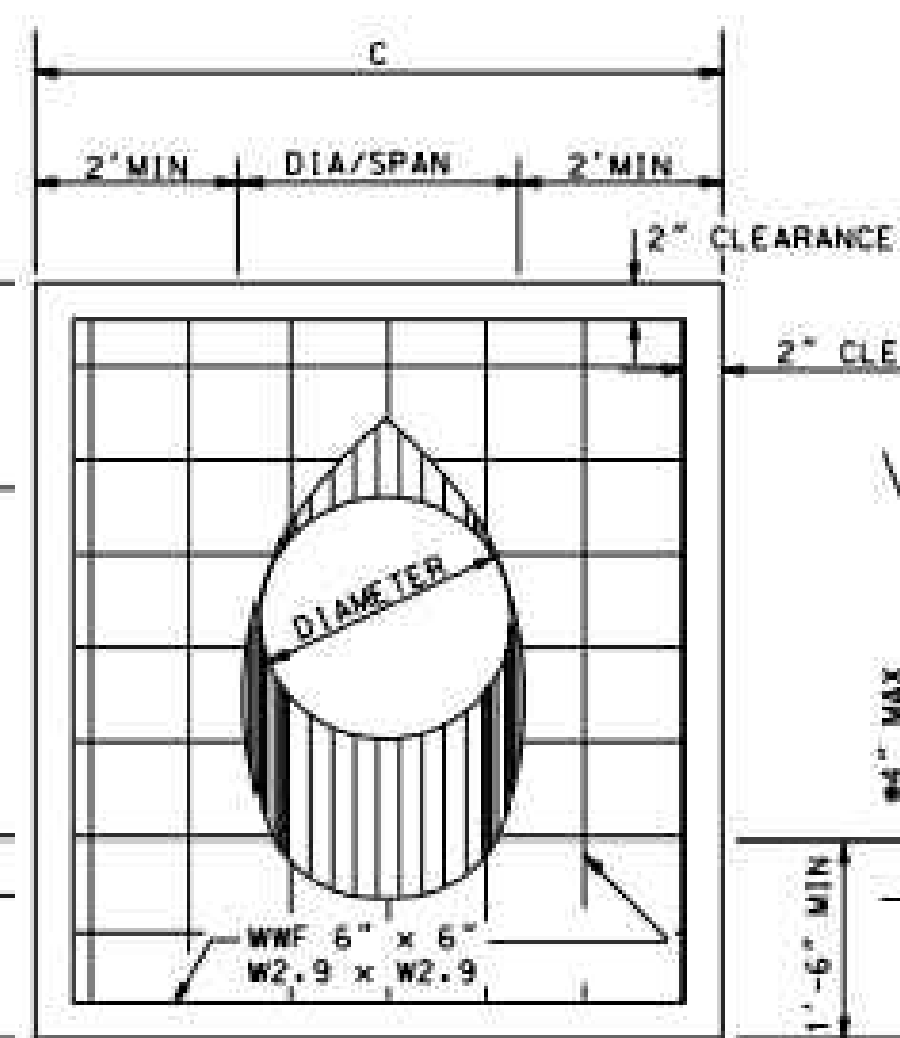
CIVIL CONSTRUCTION DETAILS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 15 OF 20

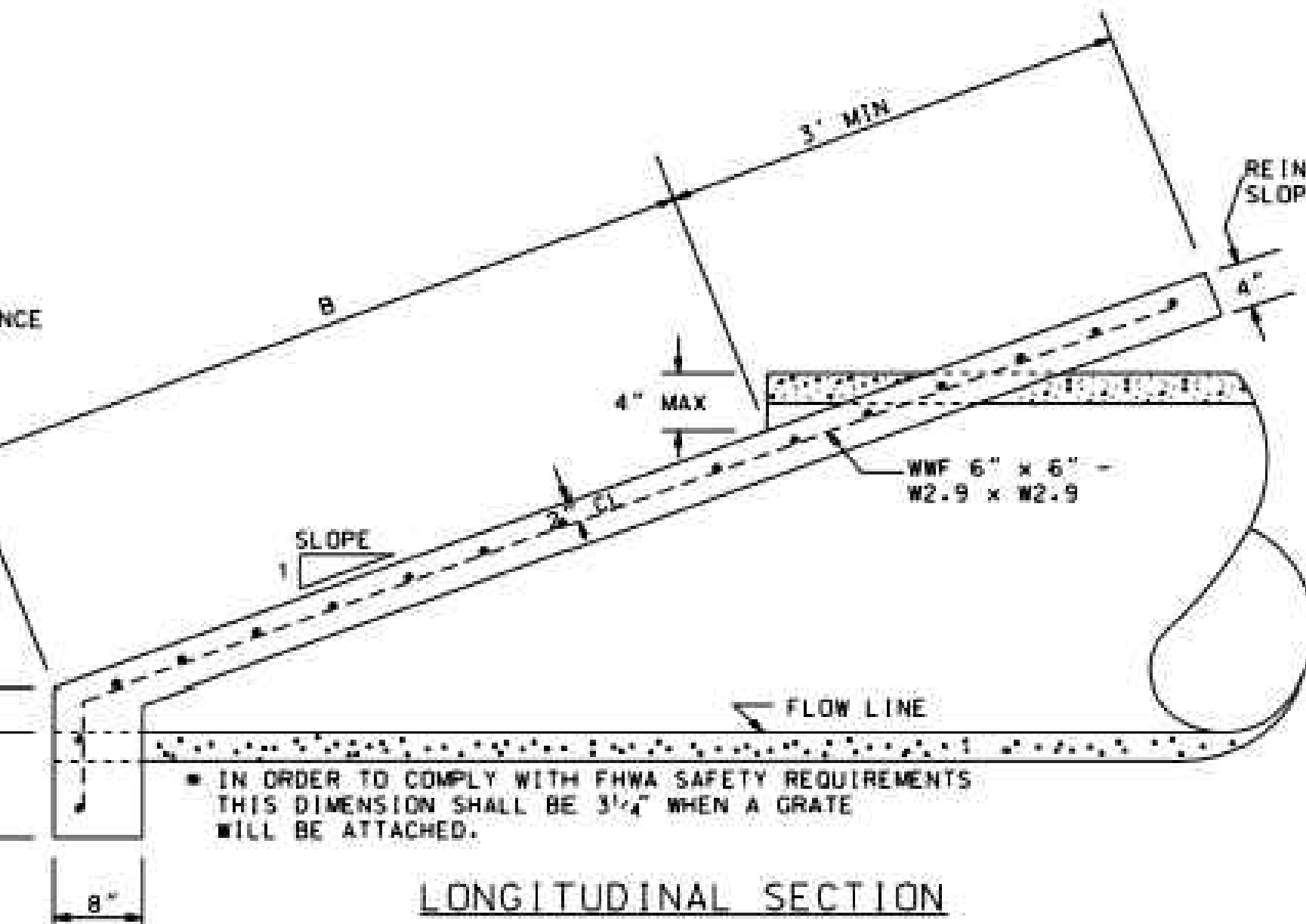
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



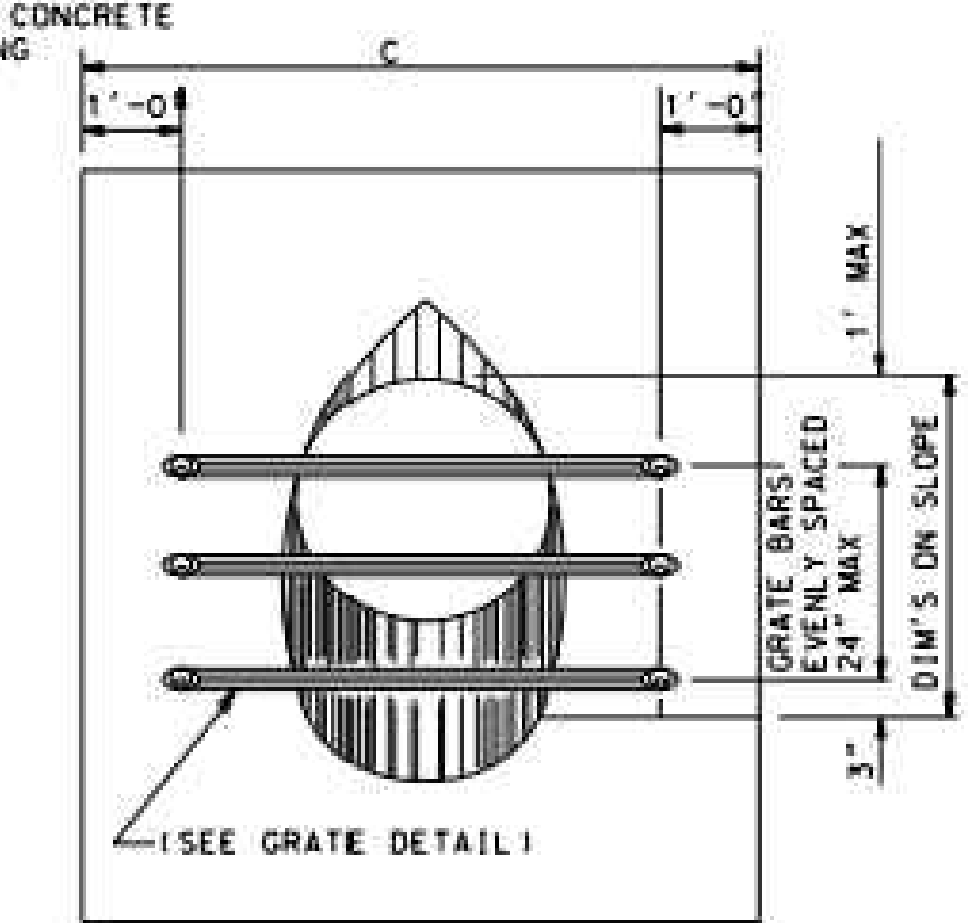
END ELEVATION DOUBLE BARREL



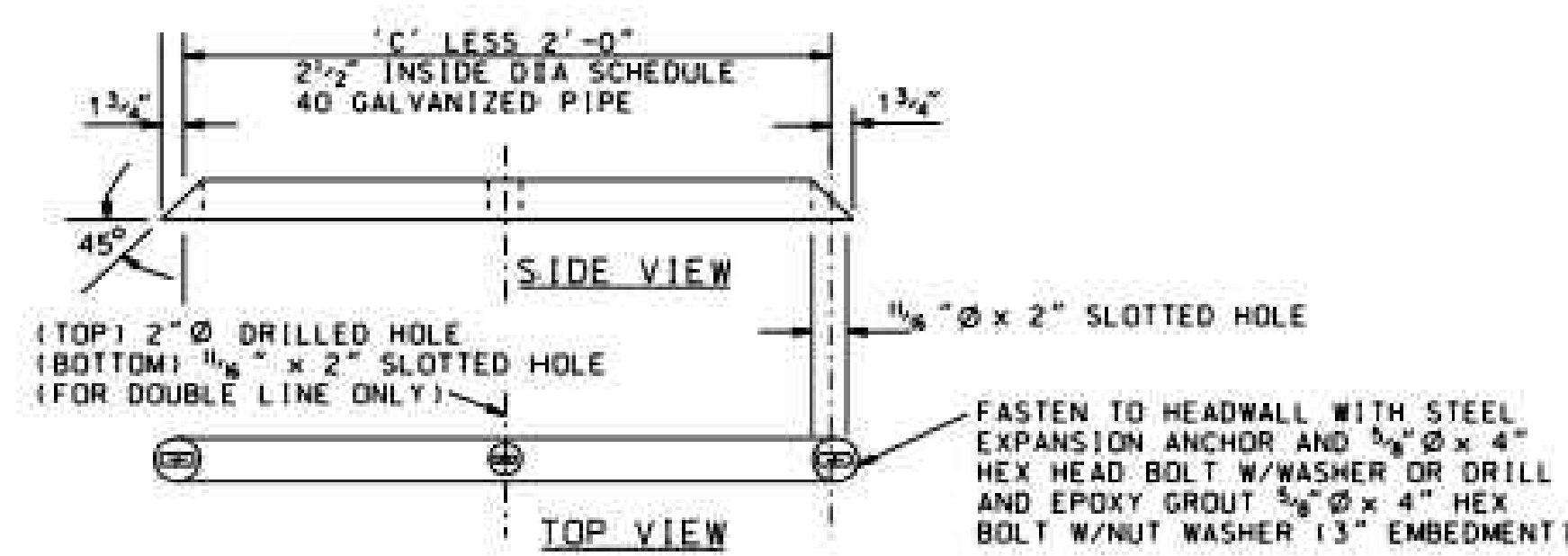
END ELEVATION SINGLE BARREL



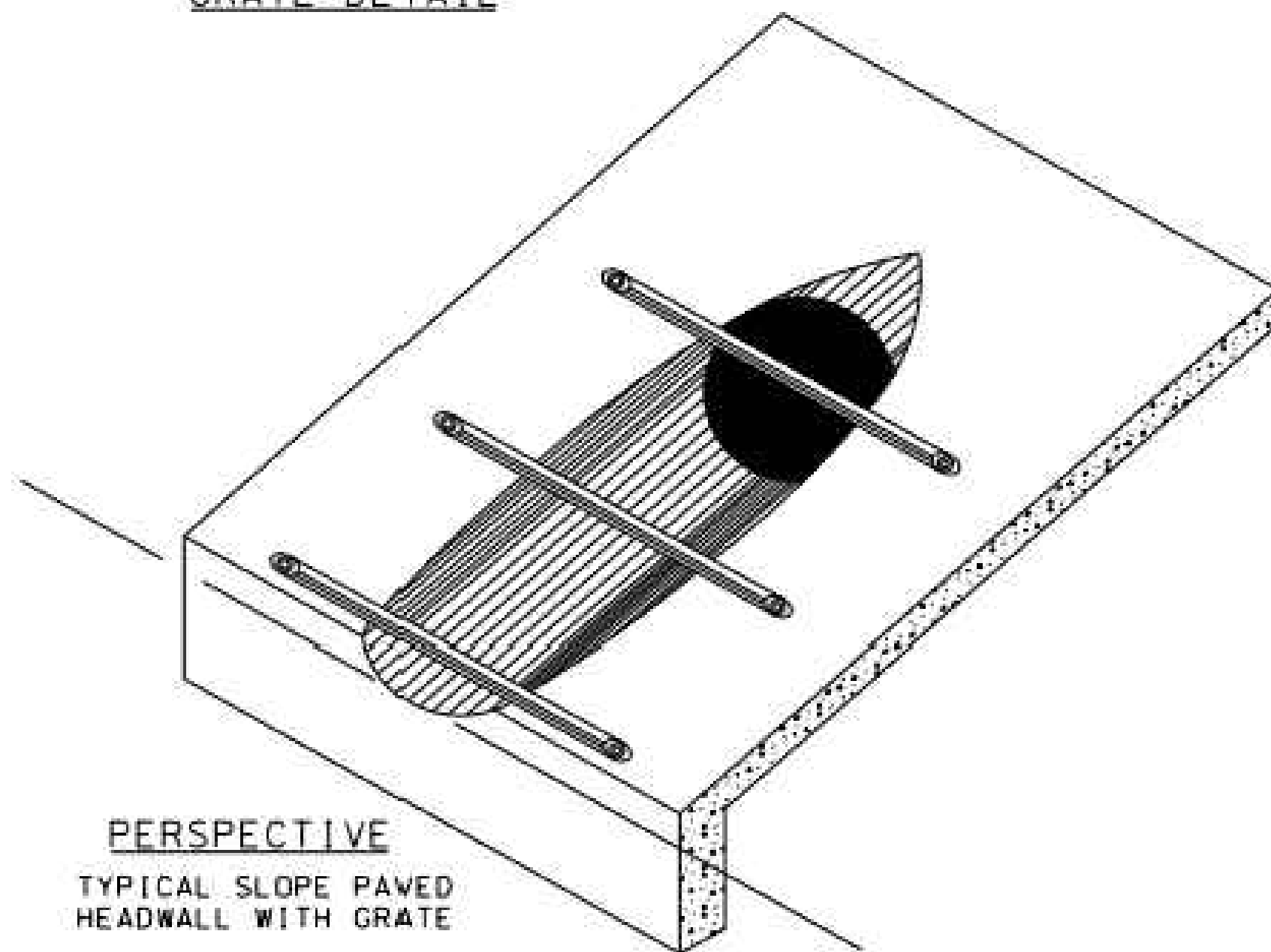
LONGITUDINAL SECTION



END ELEVATION WITH GRATE



GRATE DETAIL



PERSPECTIVE
TYPICAL SLOPE PAVED
HEADWALL WITH GRATE

DIMENSIONS AND QUANTITIES								
PIPE SIZE	AREA SQ FT	SLOPE	B	C	D	CU YDS ONE BARREL	CU YDS ADDITIONAL BARREL	
15"Ø	1.2	4:1	2'-5"	5'-3"	1'-11"	0.92	0.30	
18"Ø	1.8	4:1	3'-6"	5'-6"	2'-3"	1.06	0.36	
24"Ø	3.1	4:1	5'-6"	6'-0"	3'-0"	1.32	0.52	
30"Ø	4.9	4:1	7'-7"	6'-6"	3'-9"	1.60	0.72	
36"Ø	7.1	4:1	9'-8"	7'-0"	4'-6"	1.86	0.94	
42"Ø	9.6	4:1	11'-9"	7'-6"	5'-3"	2.20	1.20	
48"Ø	12.6	4:1	13'-9"	8'-0"	6'-0"	2.40	1.46	
54"Ø	15.9	4:1	15'-10"	8'-6"	6'-9"	2.60	1.76	
15"Ø	1.2	6:1	3'-7"	5'-3"	1'-11"	1.04	0.30	
18"Ø	1.8	6:1	5'-1"	5'-6"	2'-3"	1.22	0.40	
24"Ø	3.1	6:1	8'-1"	6'-0"	3'-0"	1.58	0.60	
30"Ø	4.9	6:1	11'-2"	6'-6"	3'-9"	1.94	0.84	
36"Ø	7.1	6:1	14'-2"	7'-0"	4'-6"	2.30	1.12	
42"Ø	9.6	6:1	17'-3"	7'-6"	5'-3"	2.68	1.42	
48"Ø	12.6	6:1	20'-3"	8'-0"	6'-0"	3.04	1.78	
54"Ø	15.9	6:1	23'-4"	8'-6"	6'-9"	3.40	2.18	
15"Ø	1.2	10:1	5'-10"	5'-3"	1'-11"	1.24	0.32	
18"Ø	1.8	10:1	8'-4"	5'-6"	2'-3"	1.54	0.46	
24"Ø	3.1	10:1	13'-5"	6'-0"	3'-0"	2.08	0.72	
30"Ø	4.9	10:1	18'-5"	6'-6"	3'-9"	2.66	1.06	
36"Ø	7.1	10:1	23'-5"	7'-0"	4'-6"	3.20	1.46	
42"Ø	9.6	10:1	28'-6"	7'-6"	5'-3"	3.78	1.90	
48"Ø	12.6	10:1	33'-6"	8'-0"	6'-0"	4.32	2.42	
54"Ø	15.9	10:1	38'-6"	8'-6"	6'-9"	4.88	3.02	
15"Ø	1.2	20:1	11'-9"	5'-3"	1'-11"	1.84	0.42	
18"Ø	1.8	20:1	16'-8"	5'-6"	2'-3"	2.40	0.62	
24"Ø	3.1	20:1	26'-8"	6'-0"	3'-0"	3.38	1.06	

GENERAL NOTES

1. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
2. QUANTITIES SHOWN INCLUDE TWO (2) SLOPE PAVED HEADWALLS WITH TOE WALLS.
3. DIMENSIONS AND QUANTITIES SHOWN APPLIES TO CONCRETE, CORRUGATED METAL PIPE, AND CORRUGATED HDPE PIPE. CONCRETE QUANTITIES ARE SUFFICIENT WHEN HEADWALLS FOR ARCH PIPE IS DESIRABLE.
4. CONCRETE PIPE SHALL BE BEVELED BY SAWING AFTER SLOPE PAVING HAS BEEN PLACED AND SUFFICIENTLY CURED (SOME HAND FINISHING MAY BE NECESSARY.) METAL PIPE SHALL BE SHOP CUT. CORRUGATED HDPE PIPE MAY BE FIELD BEVELED PRIOR TO PAVING OR SHOP CUT.
5. CONTRACTOR SHALL INSURE THROUGH MECHANICAL MEANS OR OTHER APPROVED DEVICES THAT CONNECTION BETWEEN BEVELED PIPE END AND CONCRETE WILL NOT BE DETACHED. CORRUGATED HDPE PIPE SHALL HAVE 1/2" Ø x 6" GALVANIZED HOOK BOLTS WITH WASHERS LOCATED AT 30" OC FOR THE TOE AND 1/2" Ø x 6" GALVANIZED THREADED HEX HEAD BOLTS WITH WASHERS LOCATED ON 2'-0" CENTERS FOR SIDES. ANCHOR BOLTS INTO CONCRETE.
6. SLOPE PAVED HEADWALL WITHOUT GRATE SHALL BE CLASS 1. SLOPE PAVED HEADWALL WITH GRATE SHALL BE CLASS 2.
7. A 24" PIPE WITH GREATER THAN A 30° SKEW AND 30" OR GREATER IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
8. PIPE FOR GRATE SHALL BE SCHEDULE 40, GALVANIZED (ASTM A53) HARDWARE SHALL BE GALVANIZED ACCORDING TO SPECIFICATIONS.
9. RAW METAL EXPOSED BY CUTTING AND DRILLING OF PIPE FOR GRATE ASSEMBLY WILL REQUIRE A GALVANIZING REPAIR PAINT IN ACCORDANCE WITH SECTION 855.31 OF ALDOT SPECIFICATIONS.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS
1. Changed notes 3, 4 & 5 to allow the use of HDPE pipe.
2. Adjusted Note No. 9 requiring use of Grate on 0-10-08 by R.A.A.

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36103-3050
DESIGN BUREAU SPECIAL DRAWING

CONCRETE SLOPE PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE

Bureau Sra Engr. D.J.M.
DRAWN BY: _____ DATE DRAWN: 02-08-21

SPECIAL DRAWING NO: HW-614-SP INDEX NO: 61913

NOT TO SCALE

NUMBER	REVISION	DATE

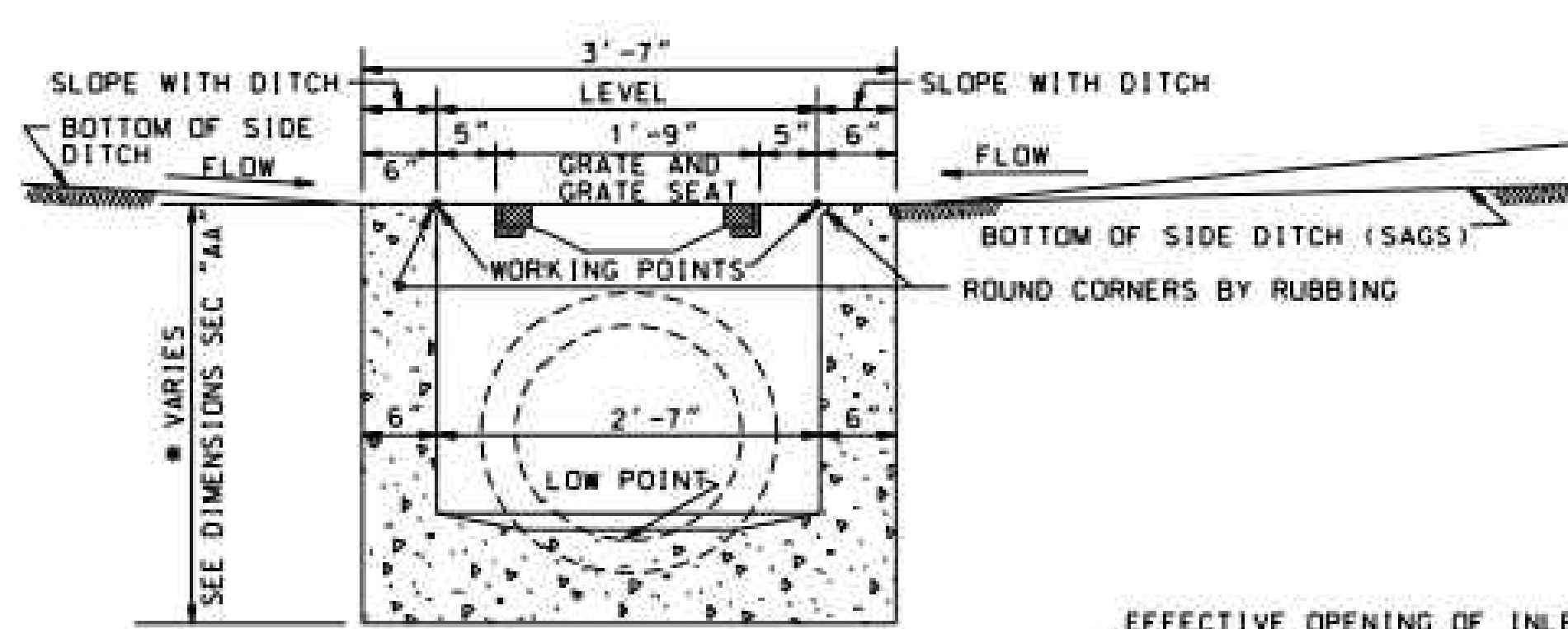
Sawgrass
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

ALDOT DETAILS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 16 OF 20

DWG INFO: SA - CLIENTS.VL - 054 - ORANGE BEACH - FIRE STATION - CITY OF ORANGE BEACH - ENGINEERING PRODUCTION - DWG TITLE: NOTES - DETAILS.DWG - 11/10/2021 - 2:21:00 PM

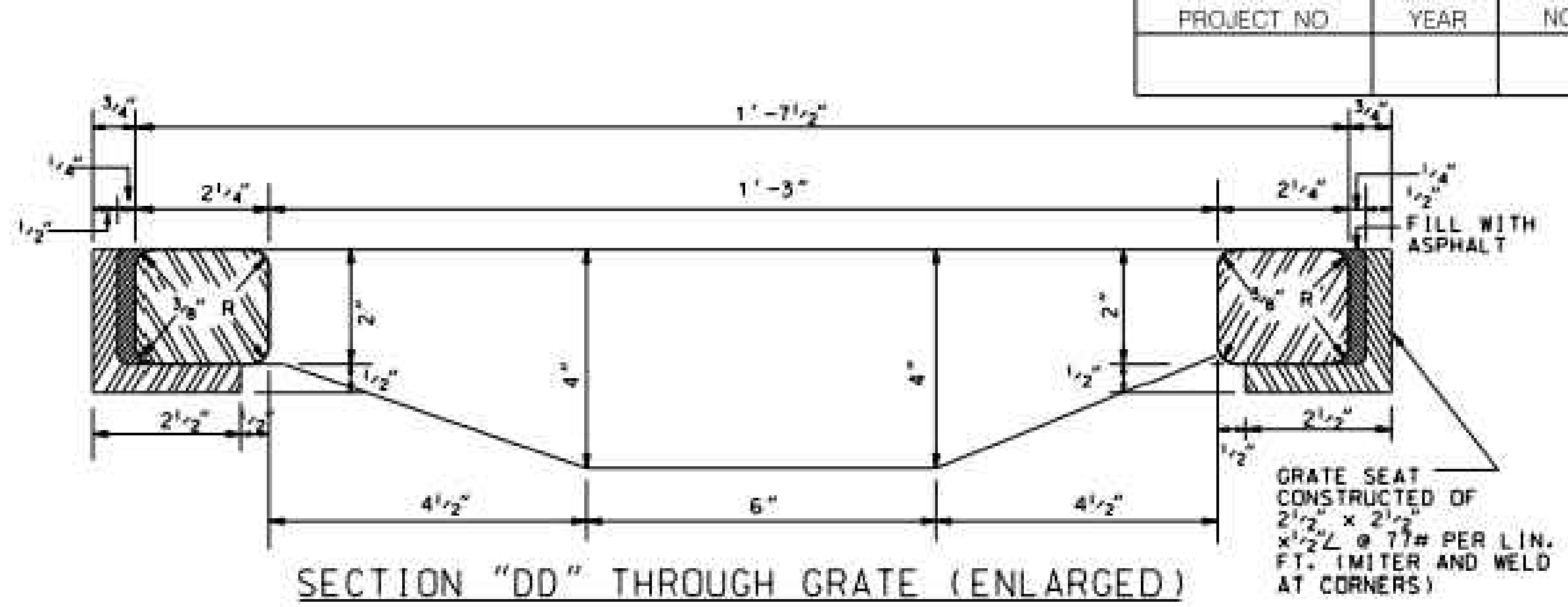
REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.



SECTION "BB"

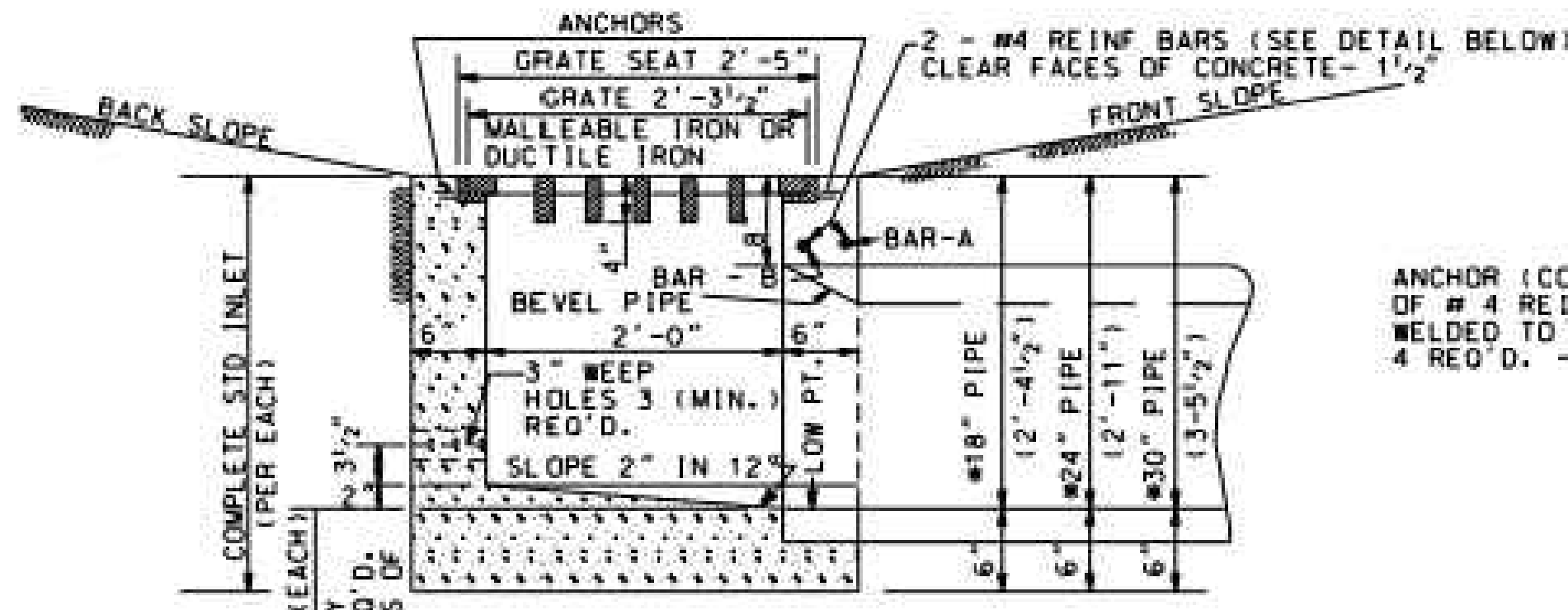
EFFECTIVE OPENING OF INLET
 CAST GRATE = 2.0 SQ. FT.
 SLOT = 1.6 SQ. FT.
 TOTAL OPENING = 3.6 SQ. FT.

NOTE TO ENGINEER AND CONTRACTOR
 WHEN SIDE DITCH SLOPES IN ONE (1) DIRECTION ONLY, A SMALL EARTH DAM OR BERM SHALL BE CONSTRUCTED ACROSS THE SIDE DITCH ON THE DOWN SLOPE SIDE OF THE INLETS AS SHOWN BY BROKEN LINE ABOVE AND SKETCH AT LOWER CENTER OF SHEET. THIS BERM OR DAM SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER AND SHALL BE FROM 8" MIN. TO 12" MAX. IN HEIGHT ACCORDING TO CONDITIONS. SLOPES FROM INLET TO HIGH POINT OF DAM (BERM) AND FROM DAM (BERM) BACK TO DITCH GRADE SHALL NOT BE MORE THAN 8:1.

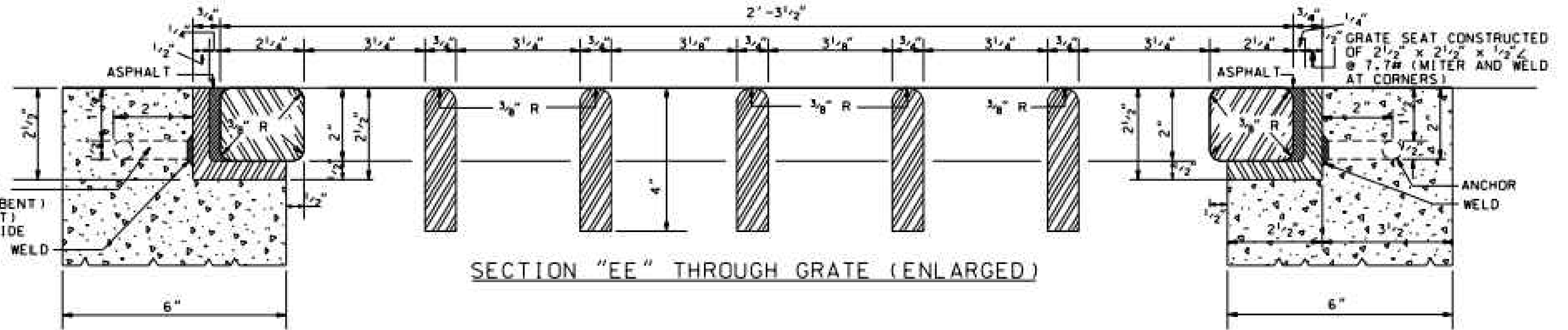


SECTION "DD" THROUGH GRATE (ENLARGED)

GRATE SEAT CONSTRUCTED OF 2 1/2" x 2 1/2" x 7/8# PER LIN. F.I. MITER AND WELD AT CORNERS

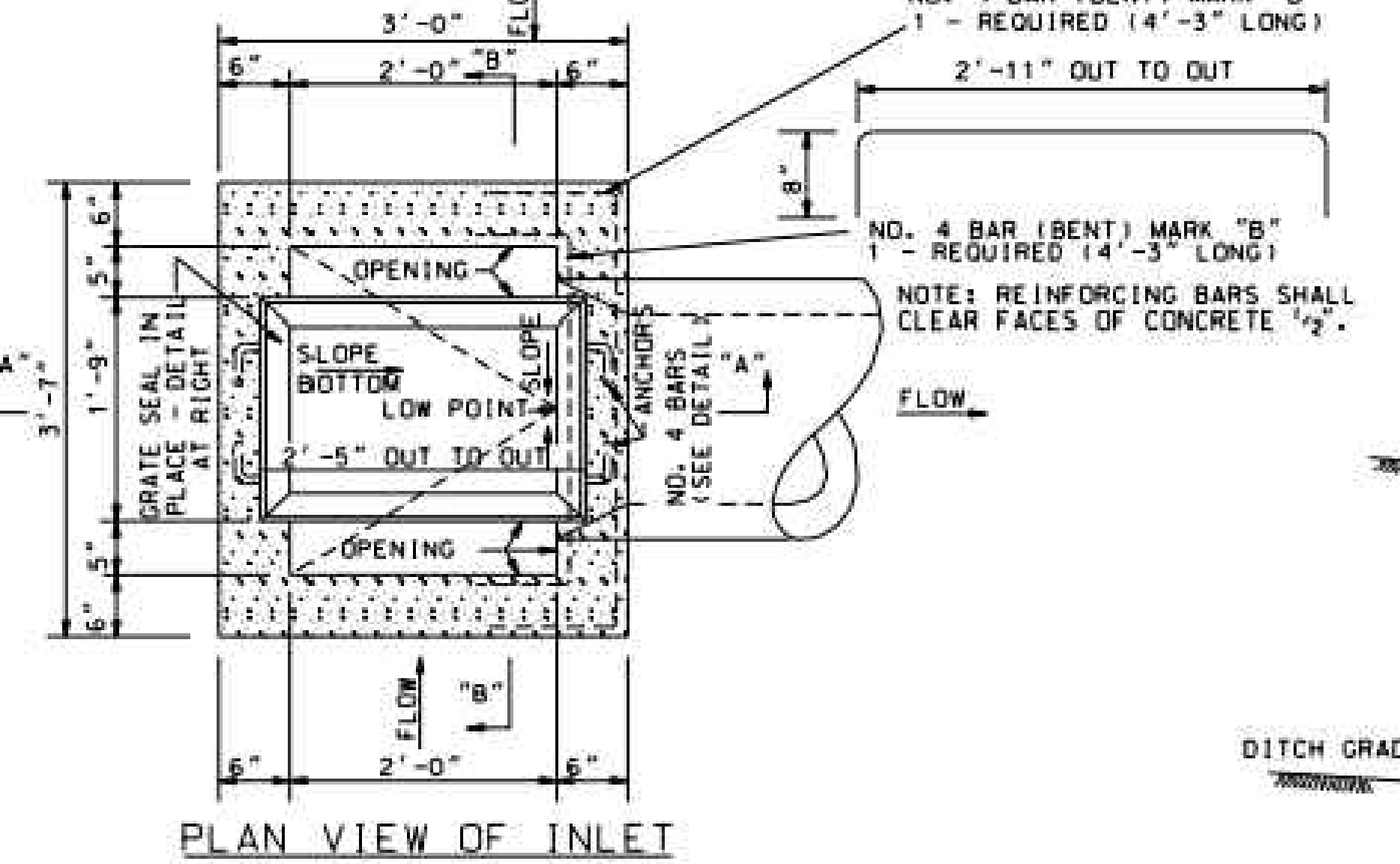


SECTION "AA"

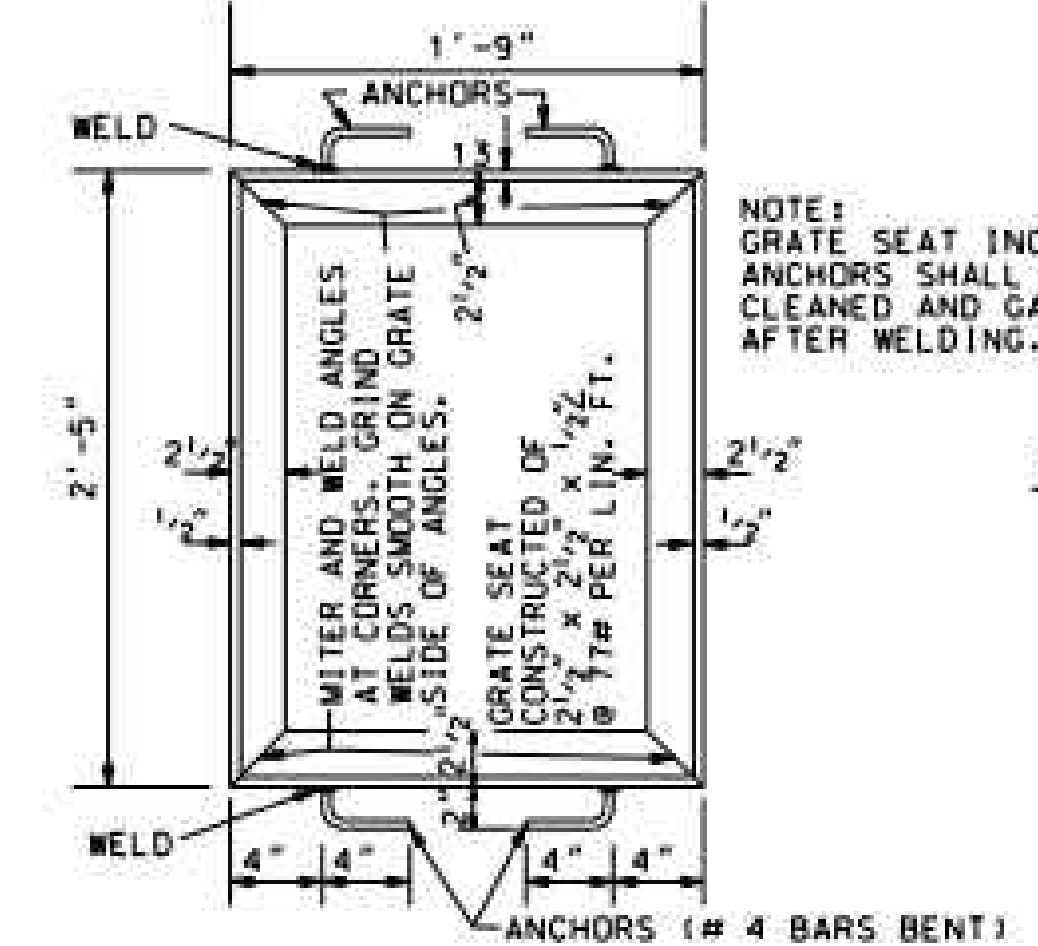


SECTION "EE" THROUGH GRATE (ENLARGED)

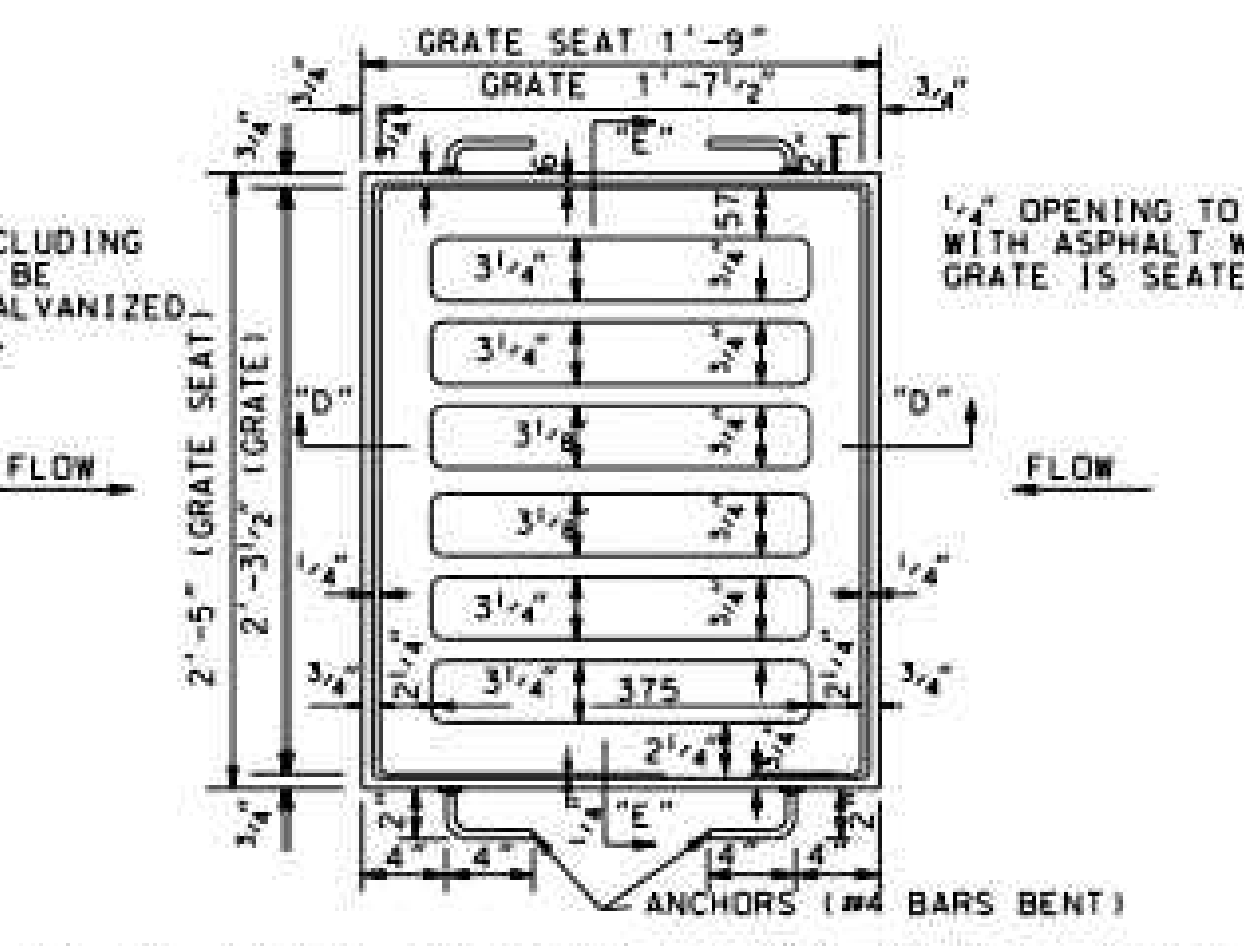
NOTE:
 INLETS WILL BE PAID FOR PER EACH FOR EACH COMPLETE STANDARD INLET AS SHOWN AT SECTION "AA" ABOVE. FOR 18" x 24" AND 30" DIA. PIPE. IF INLETS REQUIRE A GREATER DEPTH THAN SHOWN ON DWG. THE EXTRA DEPTH WILL BE PAID FOR UNDER INLET UNITS FROM INSIDE BOTTOM OF THE INLET IN 2'-0" INCREMENTS. WHEN A FRACTIONAL PART OF A 2'-0" INCREMENT OCCURS, IT WILL BE PAID FOR AS A FULL 2'-0" INCREMENT.



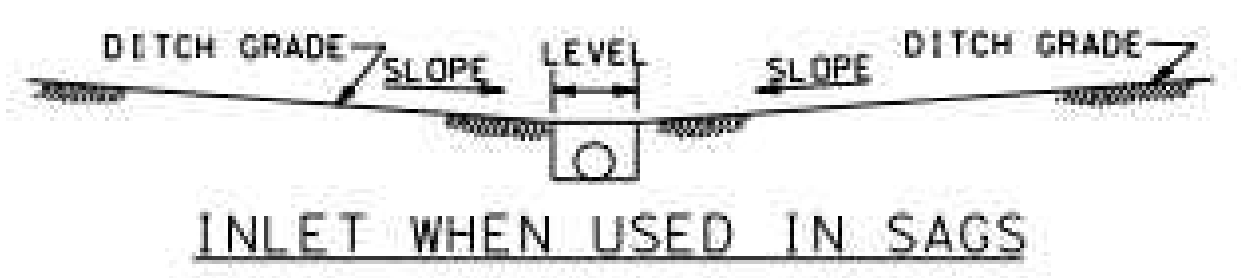
PLAN VIEW OF INLET



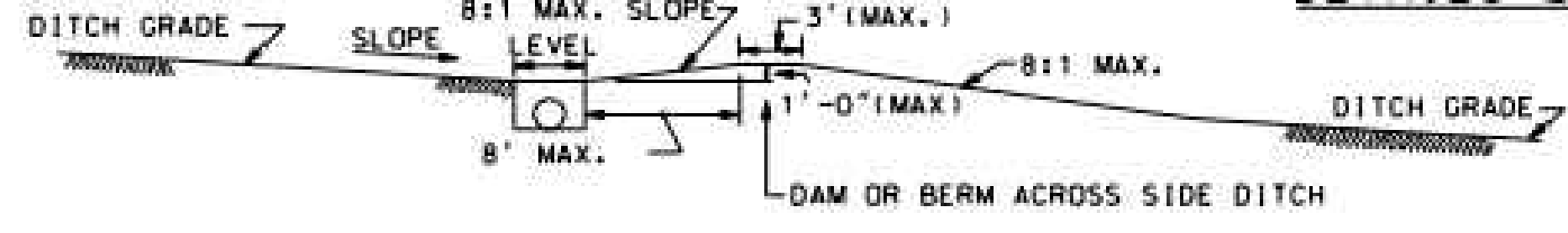
PLAN VIEW OF GRATE SEAT



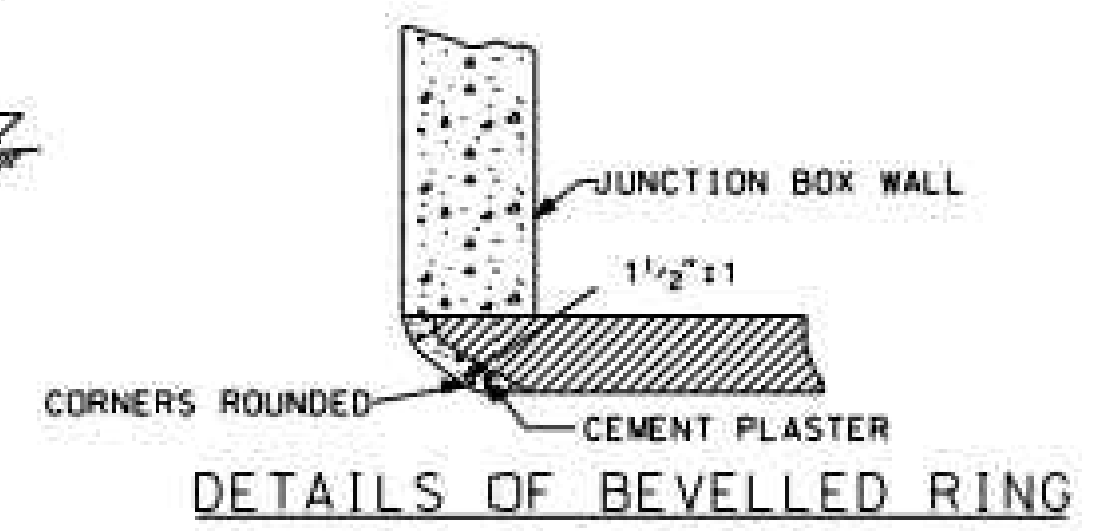
PLAN VIEW OF GRATE AND GRATE SEAT



INLET WHEN USED IN SAGS



INLET WHEN GRADE SLOPES ONE WAY



DETAILS OF BEVELLED RING

GENERAL NOTES
 A VARIATION OR TOLERANCE OF 1/4" PER FOOT IN ANY DIMENSION WILL BE PERMITTED IN THE CASTINGS. THE CASTINGS SHALL BE FREE FROM INJURIOUS DEFECTS, AND SHALL CONFORM SUBSTANTIALLY TO DRAWINGS SHOWN ON THIS SHEET.

NOTE TO CONTRACTOR
 CASTINGS: THE CONTRACTOR HAS THE OPTION OF USING DUCTILE IRON (ALSO KNOWN AS SPHEROIDAL OR MODULAR IRON) OR MALLEABLE IRON FOR GRATE CASTING DETAILED ON THIS DRAWING. OR IF HE ELECTS THE CONTRACTOR MAY FINISH THE INLETS WITH WELDED STEEL GRATES AND SEATS AS DETAILED ON SHEET 2 OF THIS DRAWING.

---SPECIFICATIONS---
 CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS
 1. ADDED TO CAD ON 12-02-99 BY J.T.

ALABAMA DEPARTMENT OF TRANSPORTATION
 1409 COLISEUM BOULEVARD
 MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
 DETAILS OF INLET TYPE C
 FOR USE IN ROADSIDE DITCHES
 (18"-30" PIPE)

SPECIAL DRAWING NO. I-621-C (SHEET 1 OF 2) INDEX NO. 62111

Bureau Std Engr. D.L.B.
 DRAWN BY: DATE DRAWN:

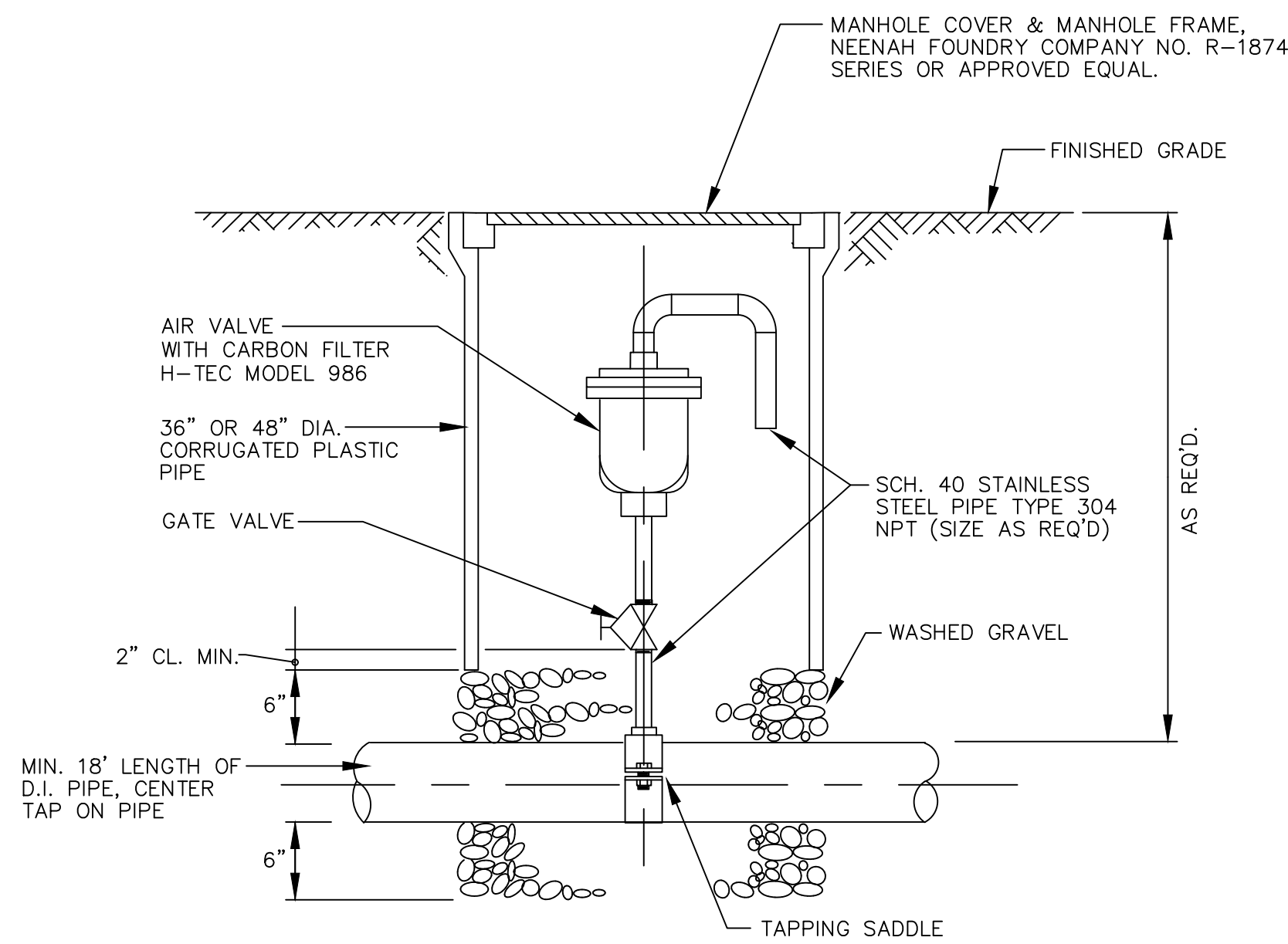
DWG INFO: SA - CLIENTS.V1 - 054 - ORANGE BEACH - FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG TITLE: NOTES - DETAILS.DWG - 11/10/2021 - 2:21:10 PM

NUMBER	REVISION	DATE

Sawgrass
 ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
 30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

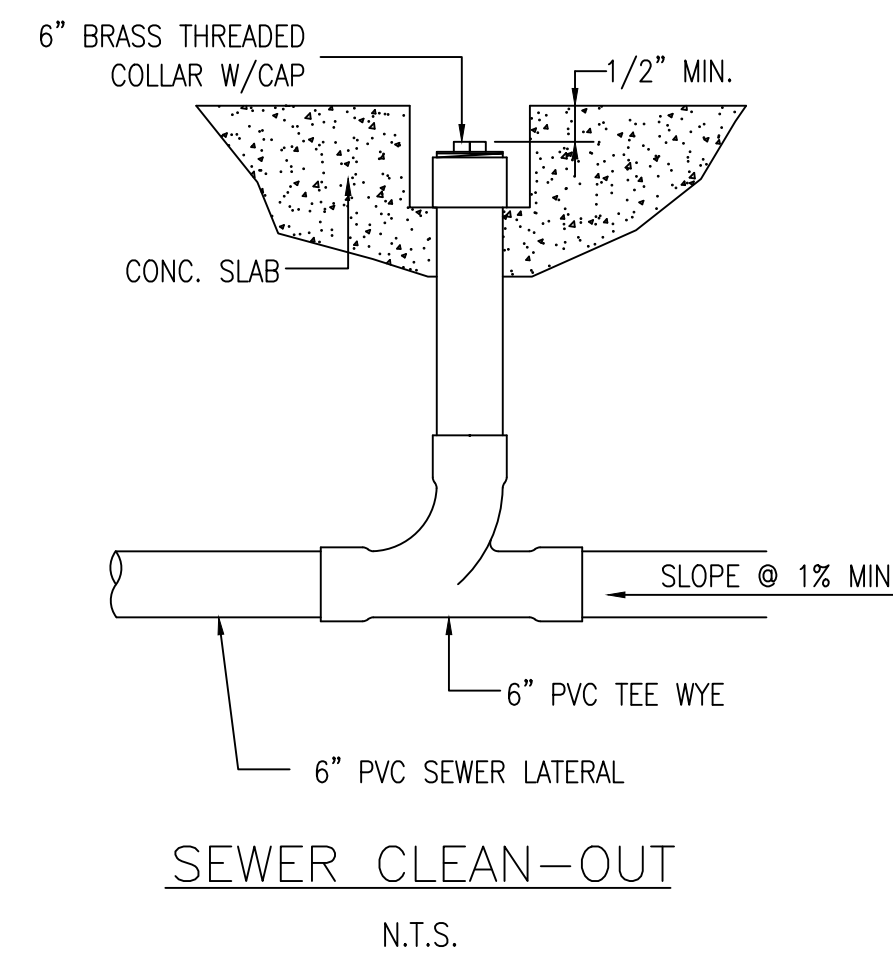
ALDOT DETAILS
 FIRE STATION NO. 5
 CITY OF ORANGE BEACH

SCALE: N.T.S.
 DATE: SEPTEMBER, 2021
 DRAWN BY: JNF
 CHECKED BY: JHR
 SHEET: 17 OF 20



AIR RELEASE VALVE ASSEMBLY

N.T.S.



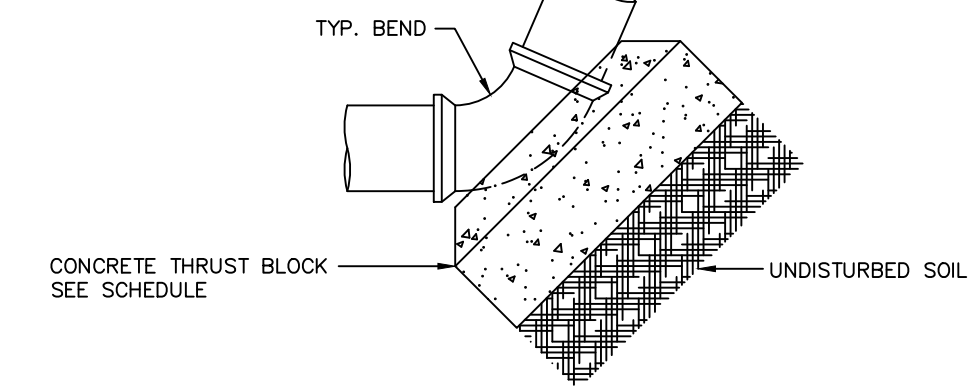
SEWER CLEAN-OUT

N.T.S.

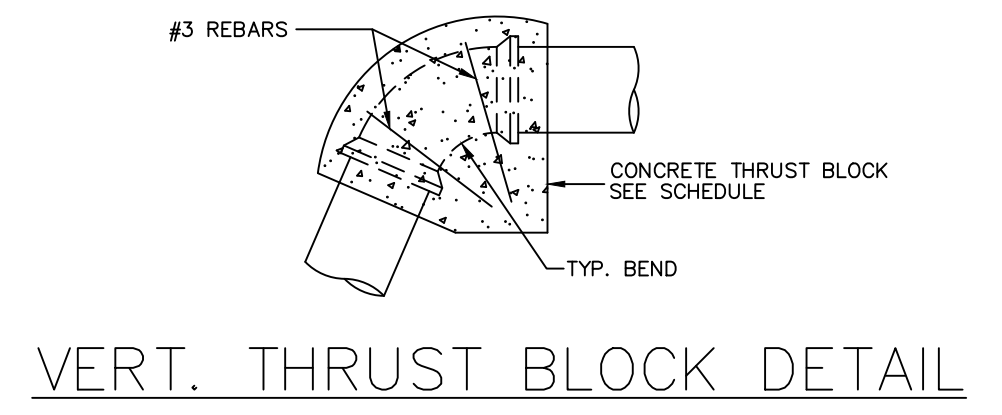
SIZE	THRUST BLOCK BEARING AREAS (SQ.FT.)					VERTICAL ANCHOR BLOCK VOLUMES		
	PLUGGED END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	45° VERT. BEND	22-1/2° VERT. BEND	GATE VALVE
2" DIA. PIPE LINE	1.0	1.0	1.0	1.0	1.0	9.3 CU. FT.	4 CU. FT.	0.5 CU. FT.
4" DIA. PIPE LINE	1.9	2.6	1.4	1.0	1.0	21.1 CU. FT.	9.8 CU. FT.	0.8 CU. FT.
6" DIA. PIPE LINE	3.6	5.0	2.7	1.4	1.0	50 CU. FT.	16 CU. FT.	1.0 CU. FT.
8" DIA. PIPE LINE	5.8	8.2	4.4	2.25	1.2			1.5 CU. FT.

NOTE: THRUST BLOCK BEARING AREAS SHALL BE INCREASED IN POOR TRENCH CONDITIONS AS DIRECTED BY THE ENGINEER

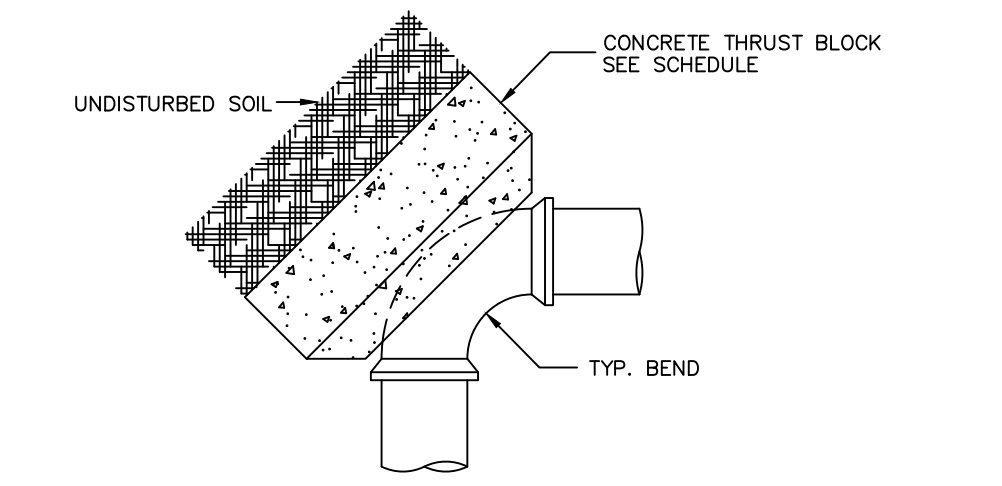
DESIGN CRITERIA: TEST PRESSURE = 150 PSI
SOIL BEARING PRESSURE = 1 TON PER SQ. FT.



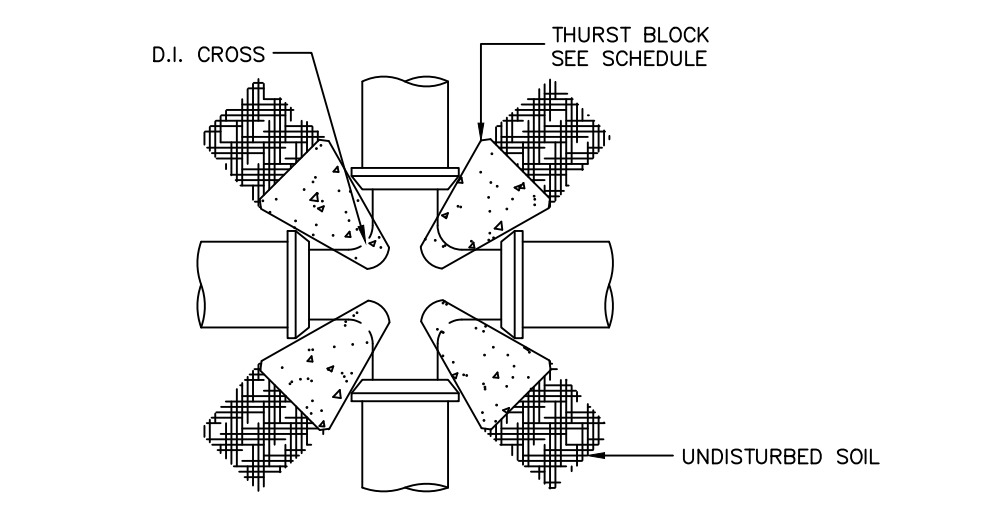
VERT. THRUST BLOCK DETAIL



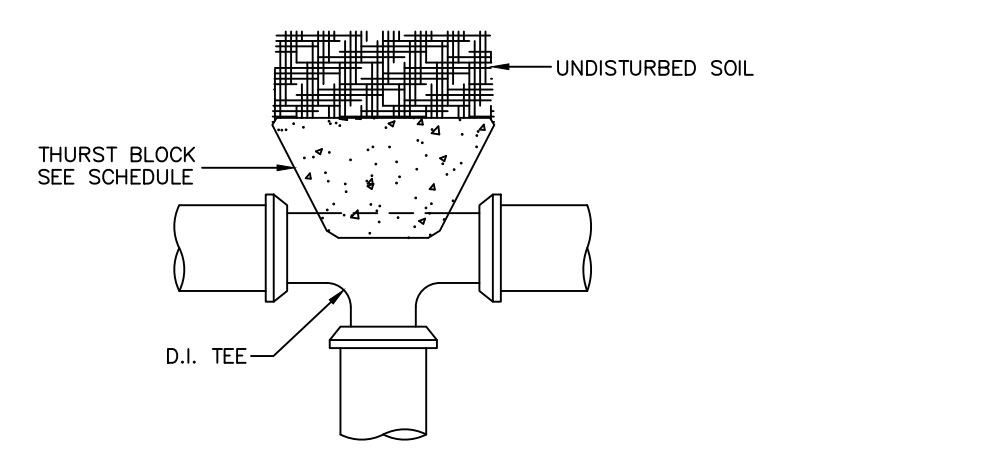
VERT. THRUST BLOCK DETAIL



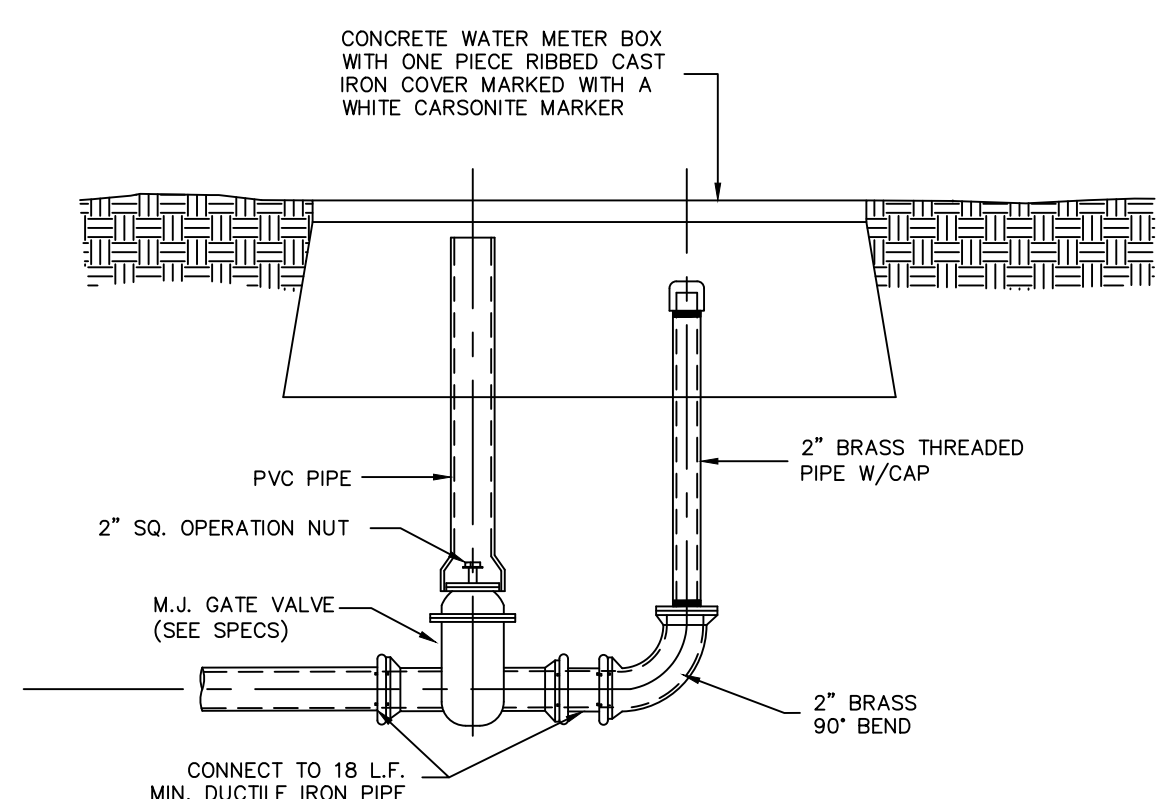
HORIZ. THRUST BLOCK DETAIL



CROSS THRUST BLOCK DETAIL



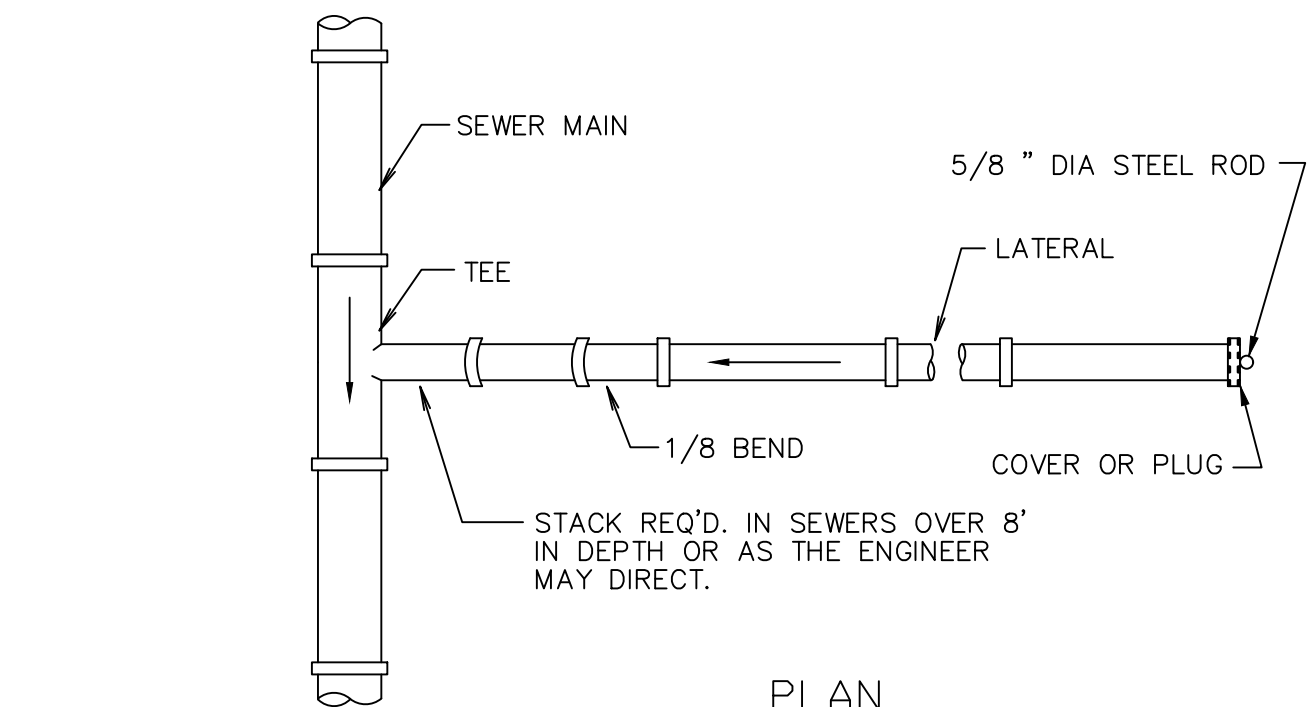
TEE THRUST BLOCK DETAIL



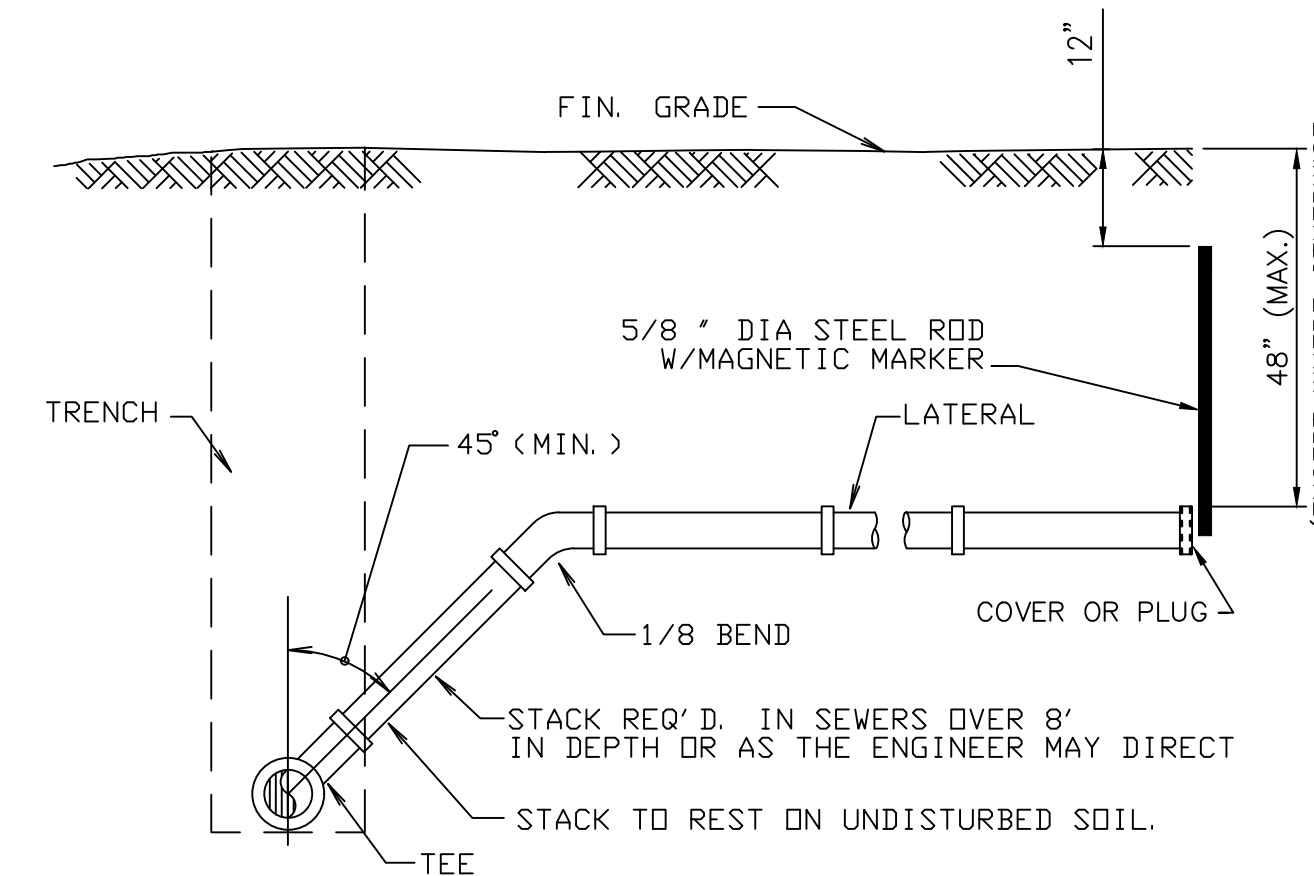
FLUSHING STATION ASSEMBLY FOR SEWER

CITY OF ORANGE BEACH ENGINEERING PRODUCTION DWG TITLE NOTES DETAILS DWG = 11/10/2021 2:21:11 PM

CITY OF ORANGE BEACH FIRE STATION DWG INFO: SA - CLIENTS: 1 - 054 - ORANGE BEACH



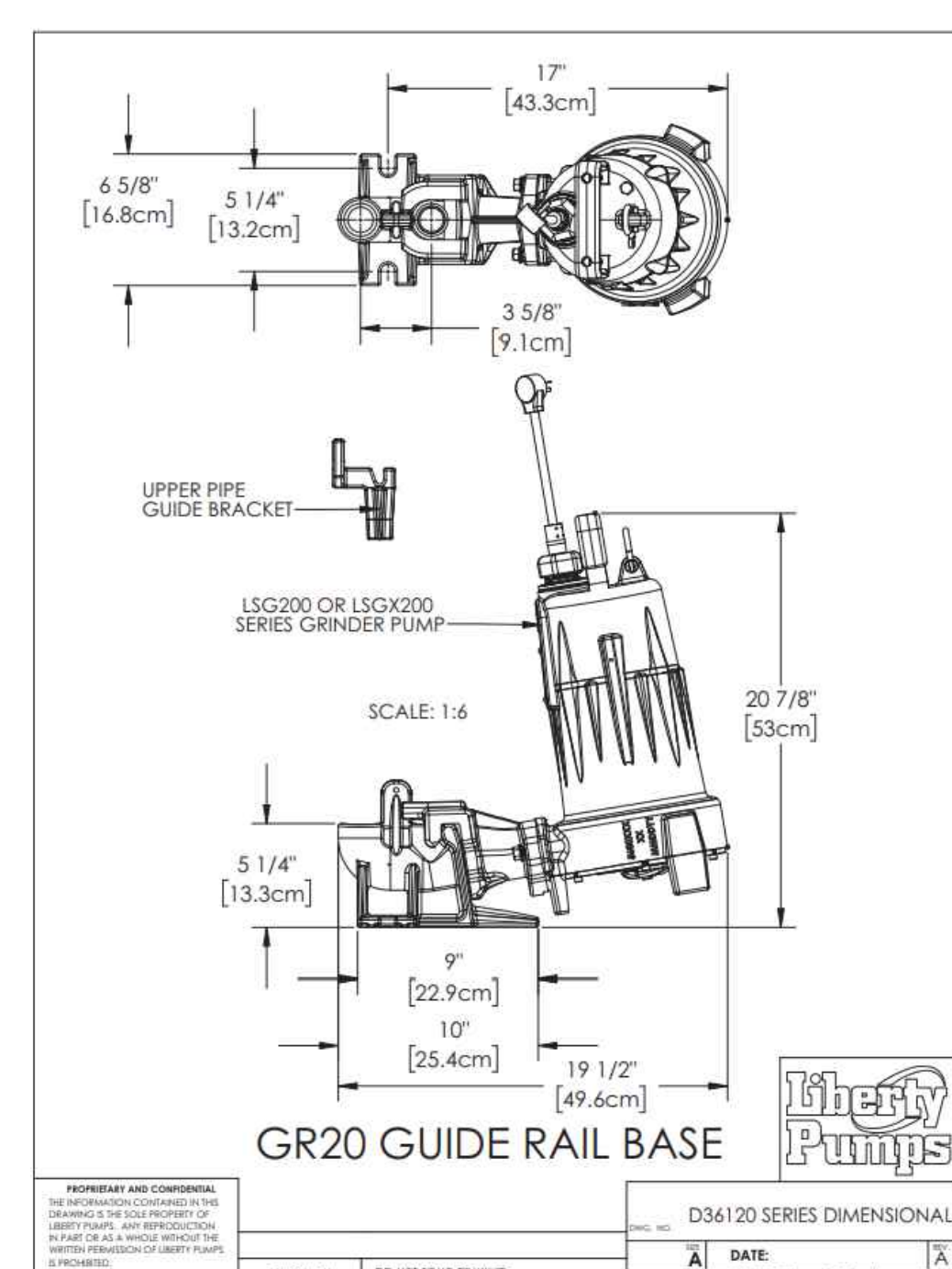
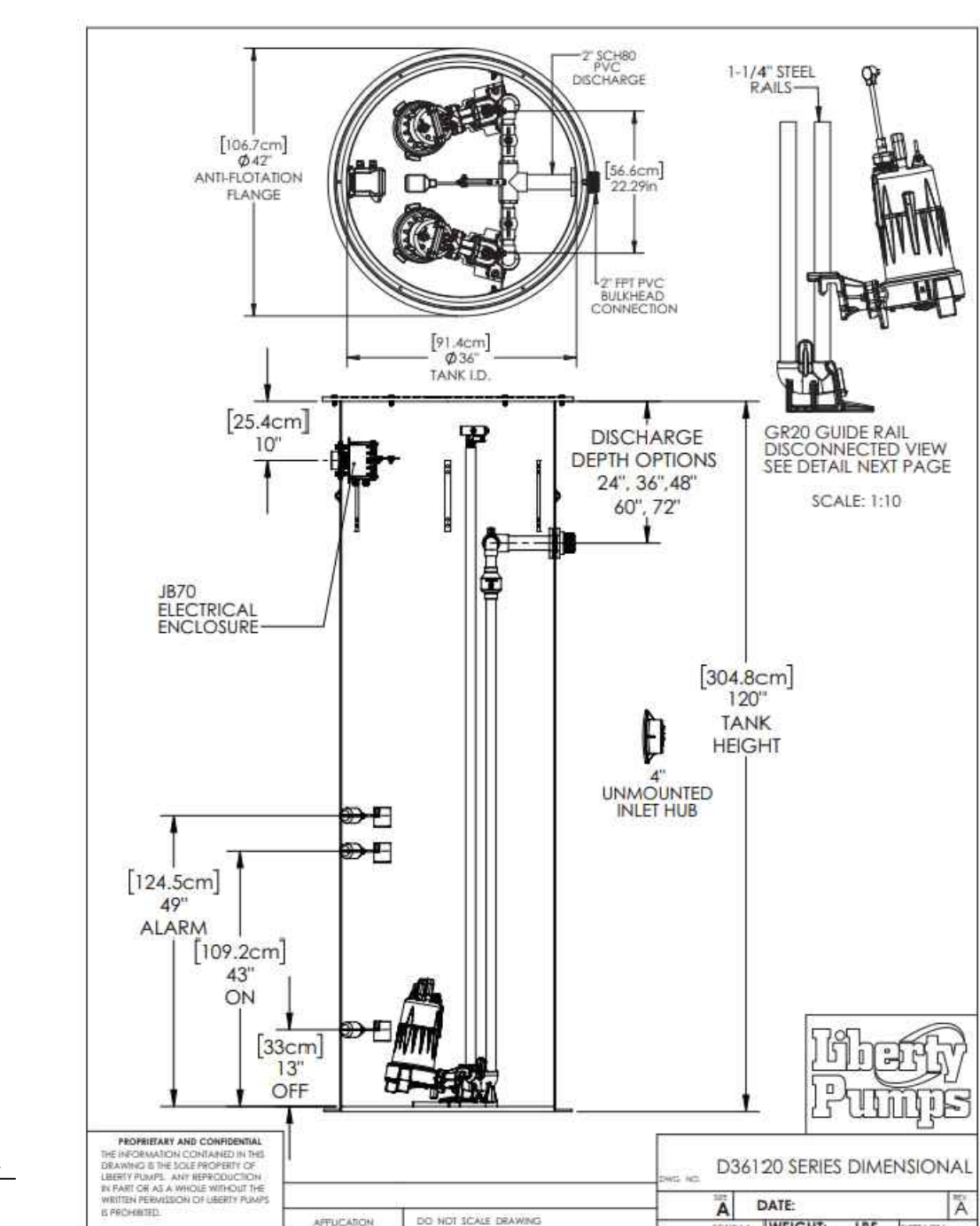
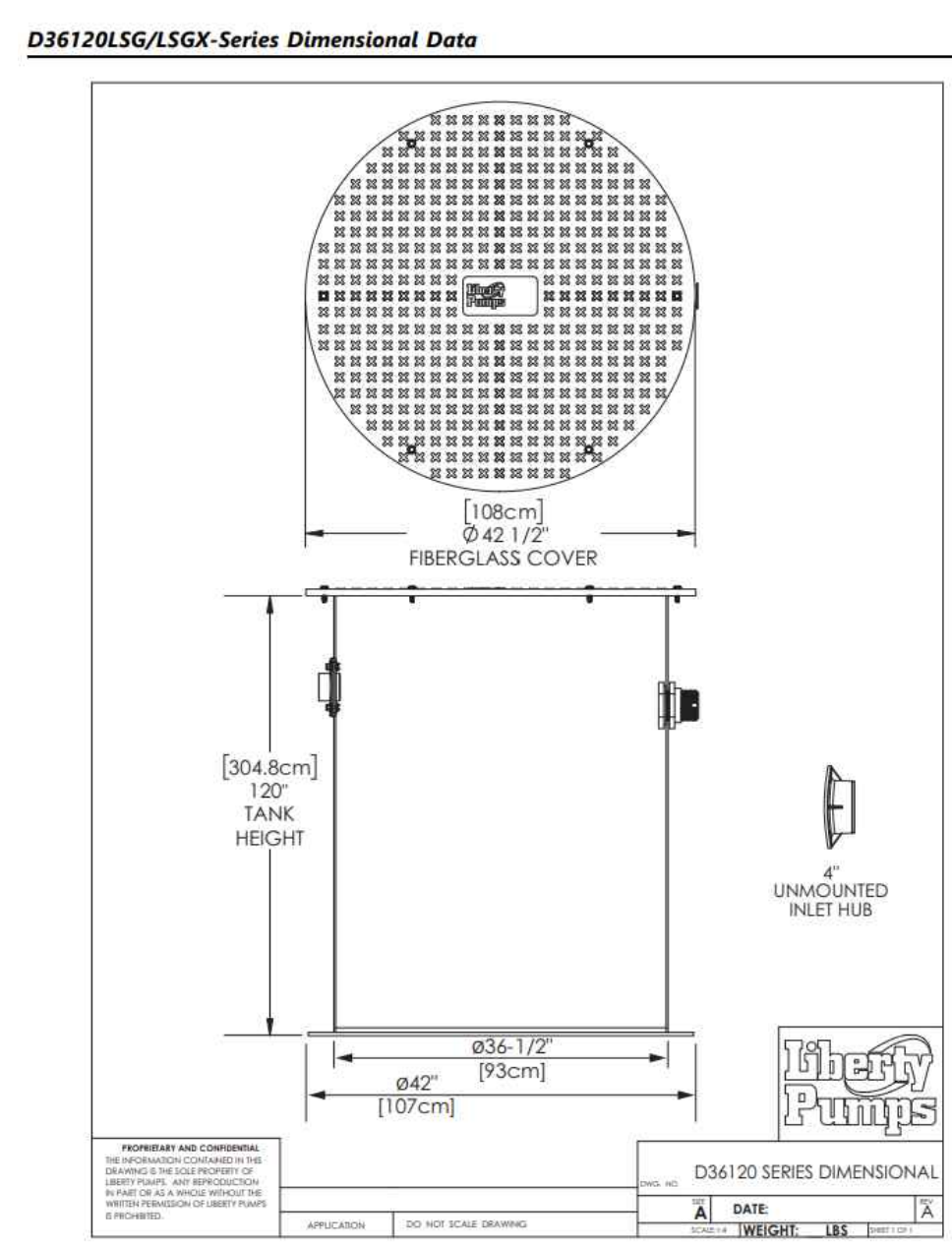
PLAN



ELEVATION

TYPICAL TEE & LATERAL INSTALLATION

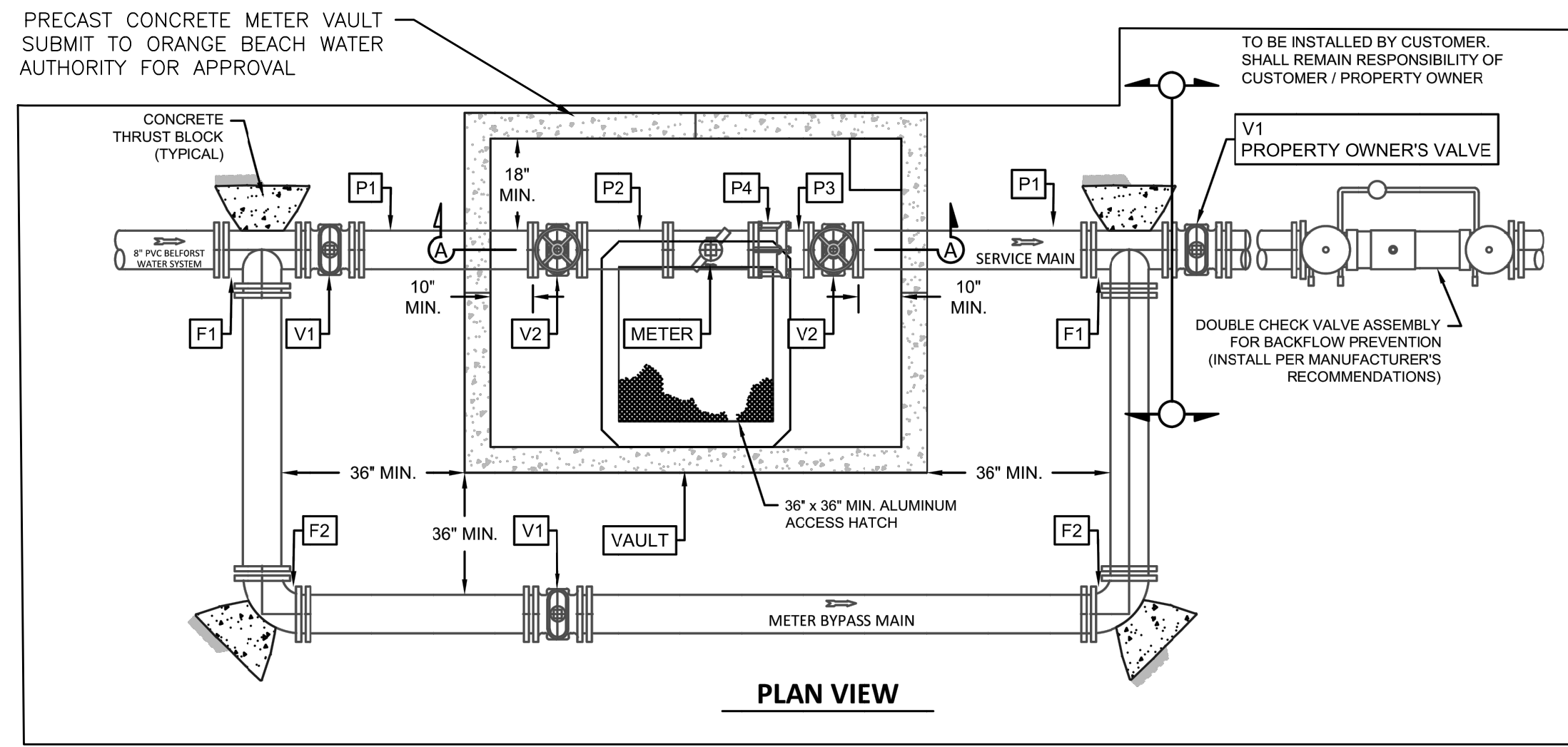
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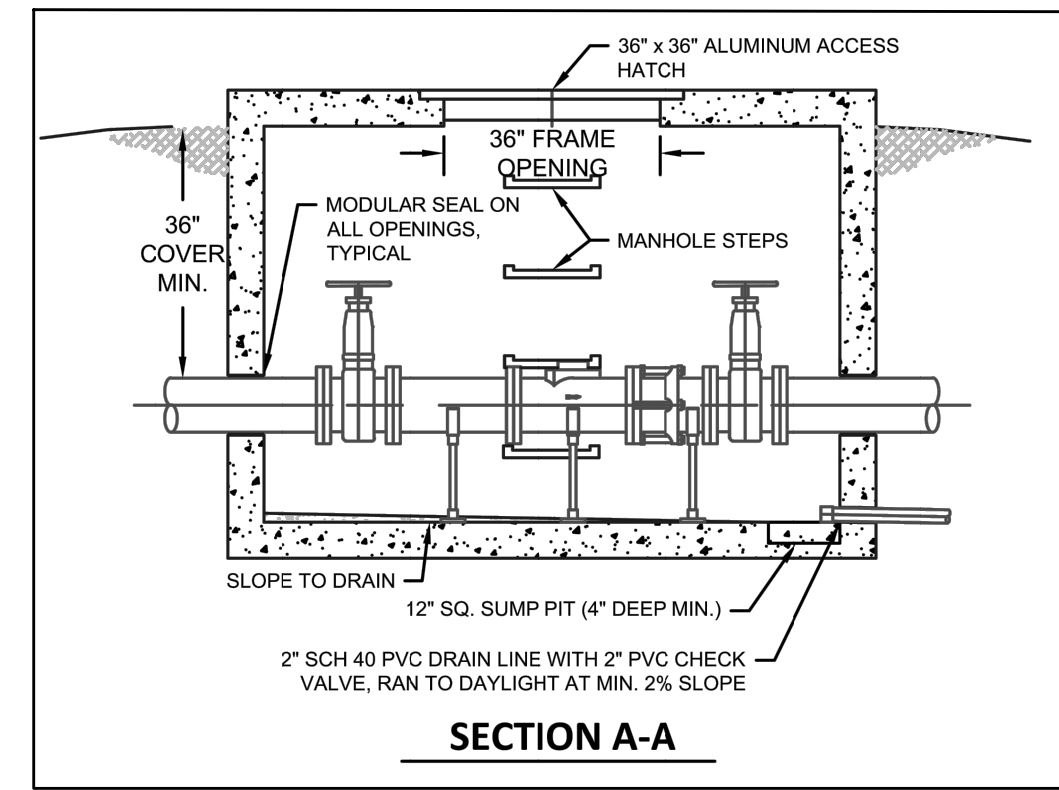
NUMBER:	REVISION:	DATE:

SEWER DETAILS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 18 OF 20



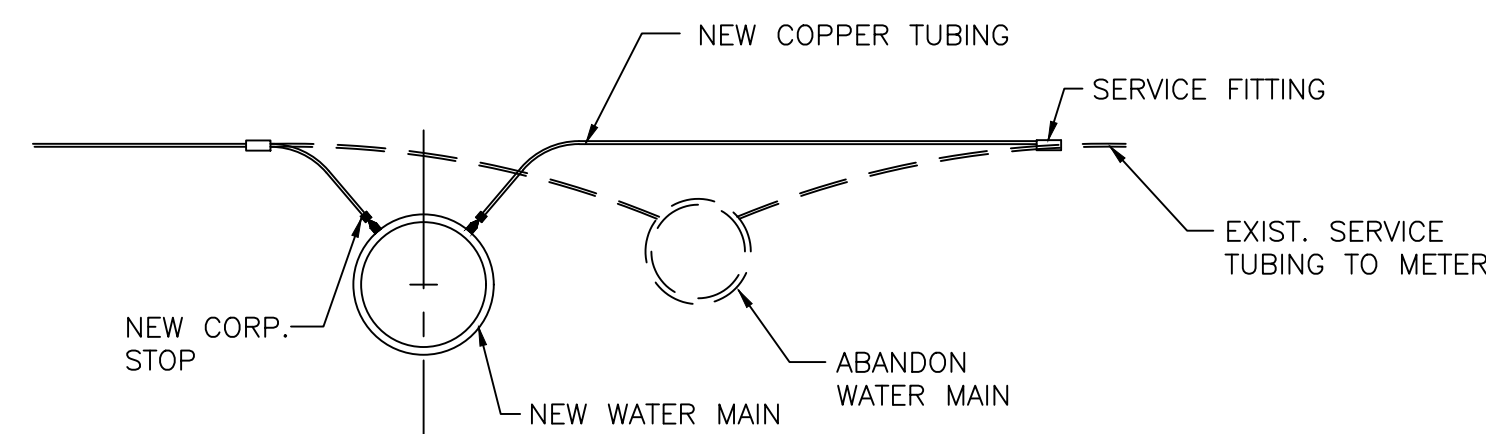
*ALL PIPE, FITTINGS, VALVES, VAULTS AND METERS TO BE PER ORANGE BEACH WATER AUTHORITY'S SPECIFICATIONS FOR MAKE, MODEL, ETC..



MATERIAL SCHEDULE		
NO.	DESCRIPTION	APPROXIMATE QUANTITY
P1	DI PIPE, FLANGED X PLAIN END (FIELD CUT TO LENGTH)	2
P2	DI PIPE, FLANGED X FLANGED, 20'	1
P3	DI PIPE, FLANGED X PLAIN END (FIELD CUT TO LENGTH)	1
P4	SLIDING FLANGE ADAPTOR COUPLING FOR DI PIPE (ROMAC FCAS01 OR APPROVED EQUIVALENT)	1
F1	MJ DI TEE W/ MJ RESTRAINING GLANDS	2
F2	MJ DI 90-DEGREE BEND W/ MJ RESTRAINING GLANDS	3
V1	RW GATE VALVE, RW W/ MJ RESTRAINING GLANDS, CAST IRON VALVE BOX & CONCRETE COLLAR	3
V2	RW GATE VALVE, FLANGED W/ HANDWHEEL	2
METER	APPROVED MASTER METER PER WATER AUTHORITY SPEC	1
VAULT	PRECAST CONCRETE METER VAULT (SUBMIT FOR APPROVAL)	1

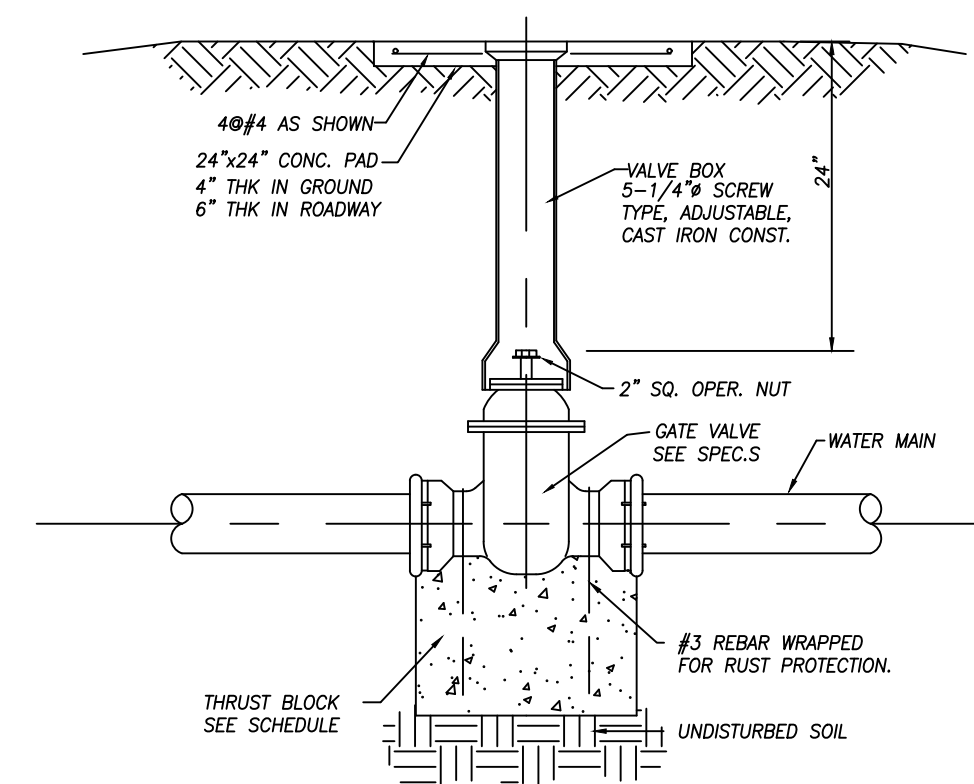
MASTER METER VAULT AND ASSEMBLY DETAIL

N.T.S.



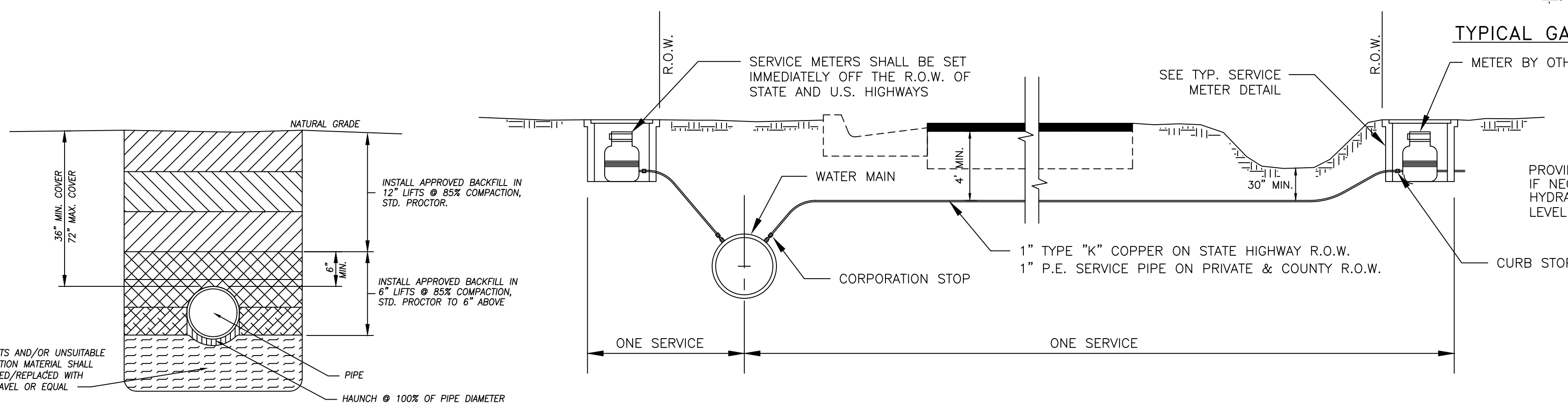
CONNECTION OF EXISTING SERVICES

N.T.S.



TYPICAL GATE VALVE DETAIL

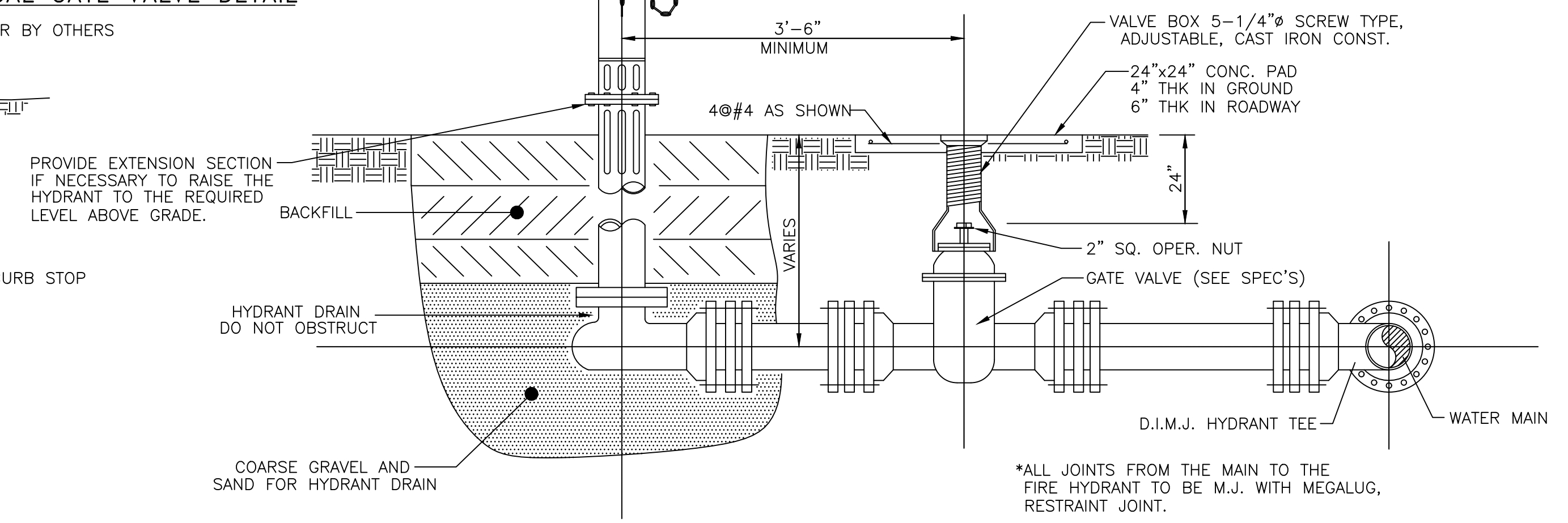
*ALL PIPE, FITTINGS, VALVES, VAULTS AND METERS TO BE PER ORANGE BEACH WATER AUTHORITY'S SPECIFICATIONS FOR MAKE, MODEL, ETC..



TYPICAL WATER MAIN TRENCH DETAIL

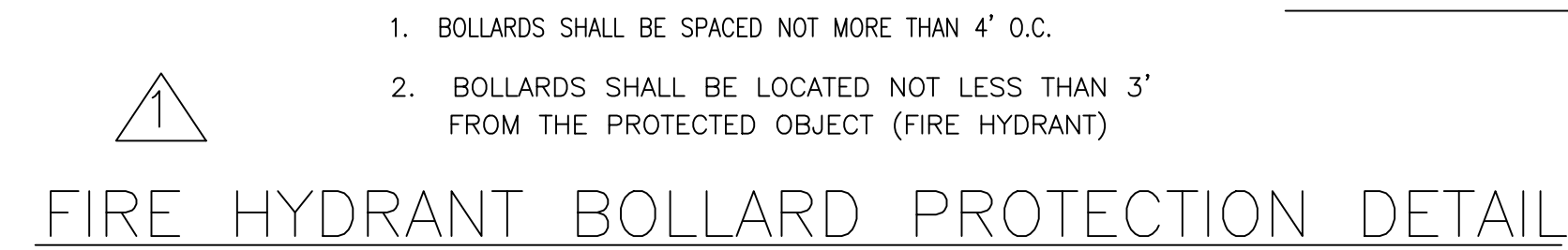
TYPICAL SERVICE CONNECTION

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FIRE HYDRANT ASSEMBLY

N.T.S.



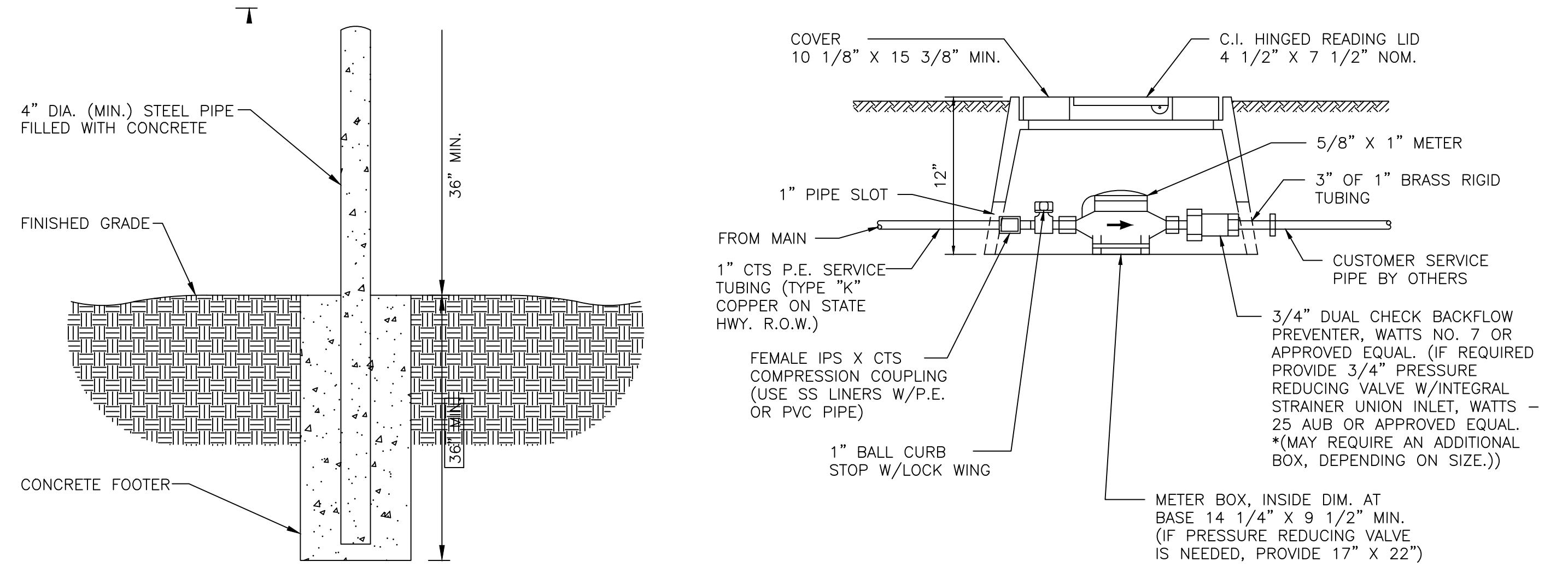
FIRE HYDRANT BOLLARD PROTECTION DETAIL

- BOLLARDS SHALL BE SPACED NOT MORE THAN 4' O.C.
- BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT (FIRE HYDRANT)

NTS



FIRE HYDRANT BOLLARD PROTECTION DETAIL



TYPICAL SERVICE METER / (PRESSURE REGULATOR)

N.T.S.

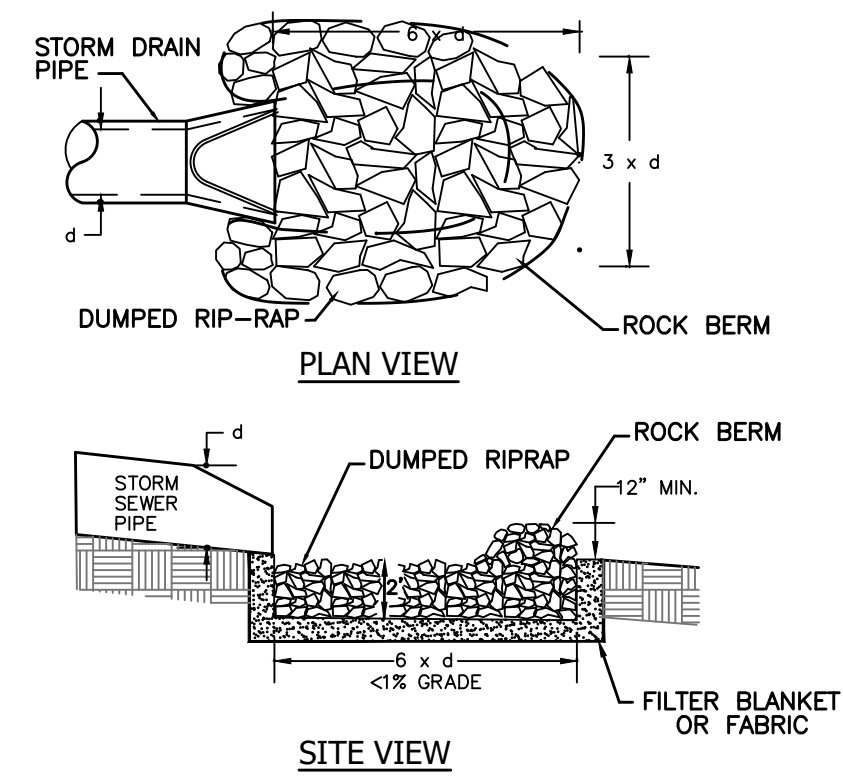
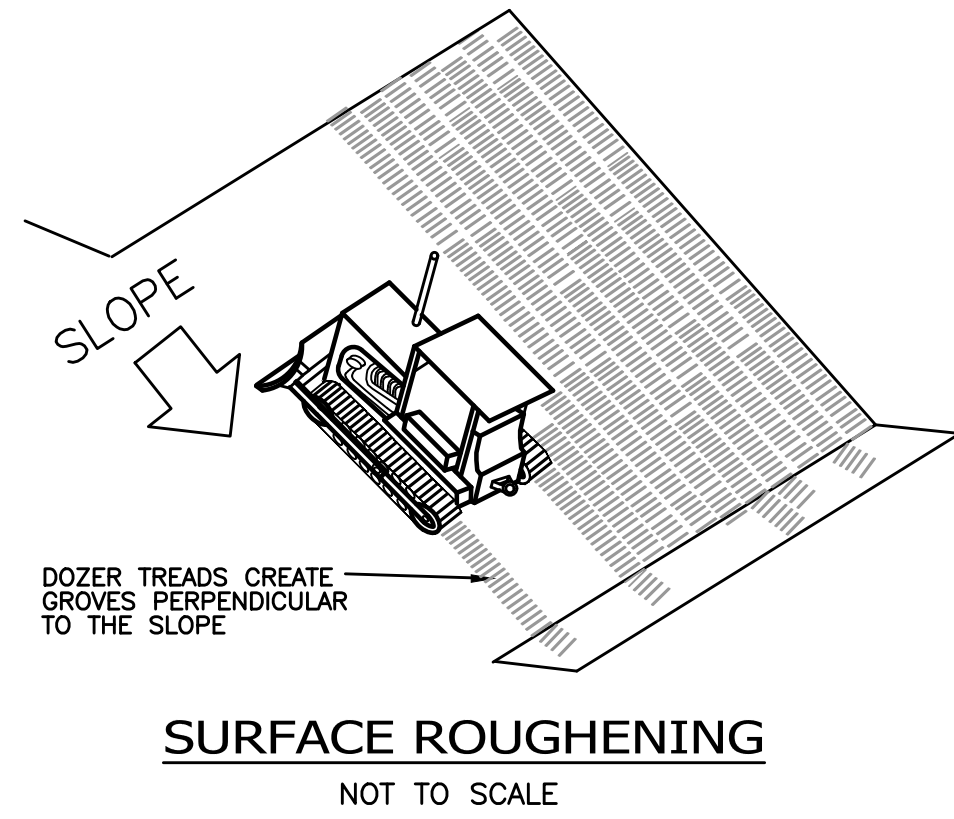
DWG INFO: SA - CLIENTS: V1 - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG TITLE: NOTES - DETAILS: DWG -- 11/10/2021 - 2:21:12 PM

NUMBER:	REVISION:	DATE:

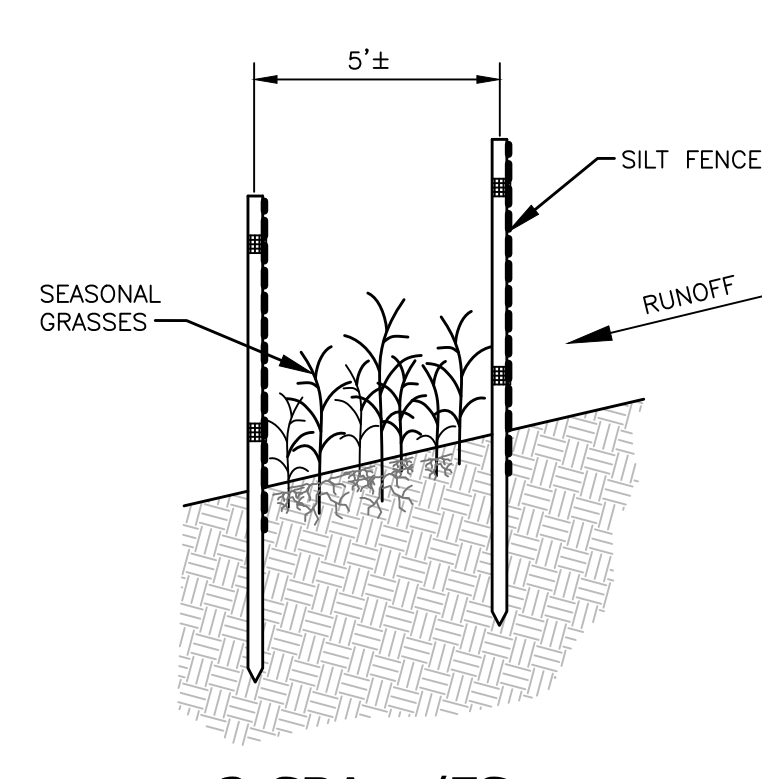
Sawgrass
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
30673 Sgt. E.I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

WATER DETAILS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

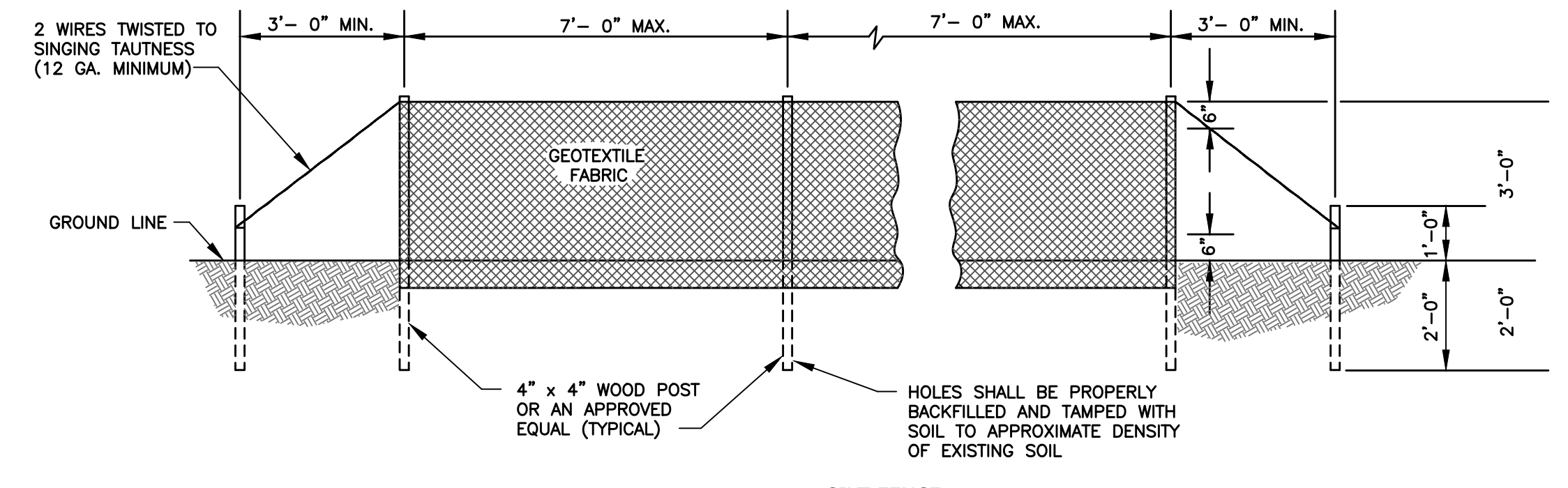
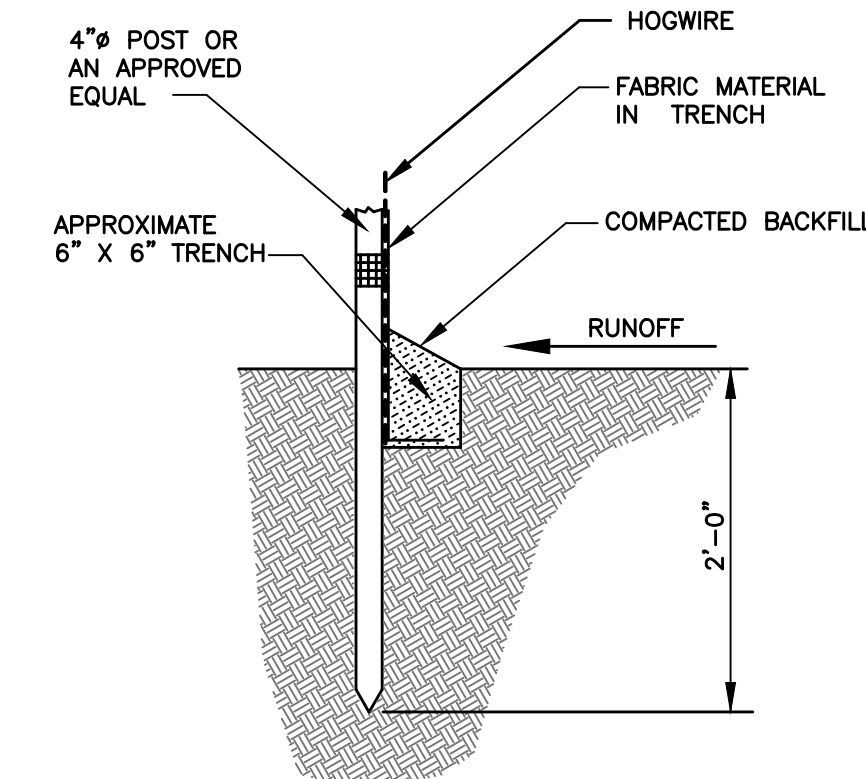
SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 19 OF 20



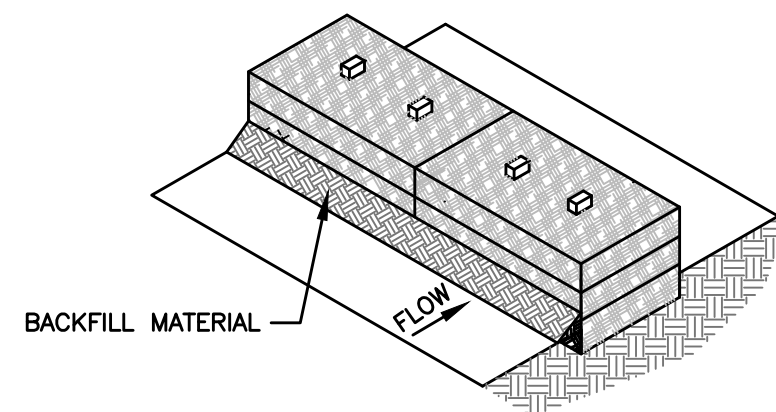
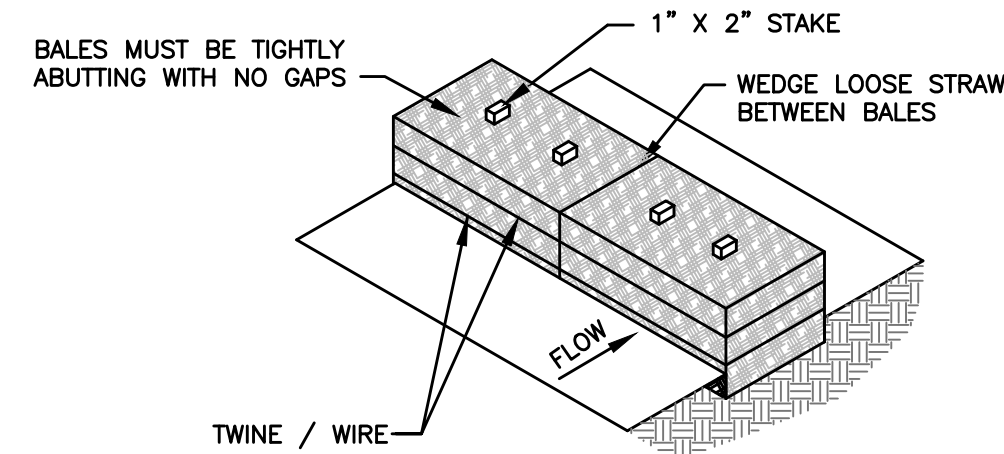
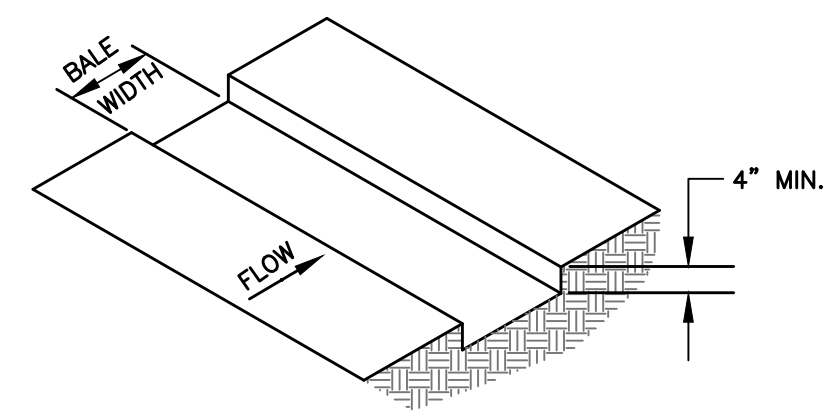
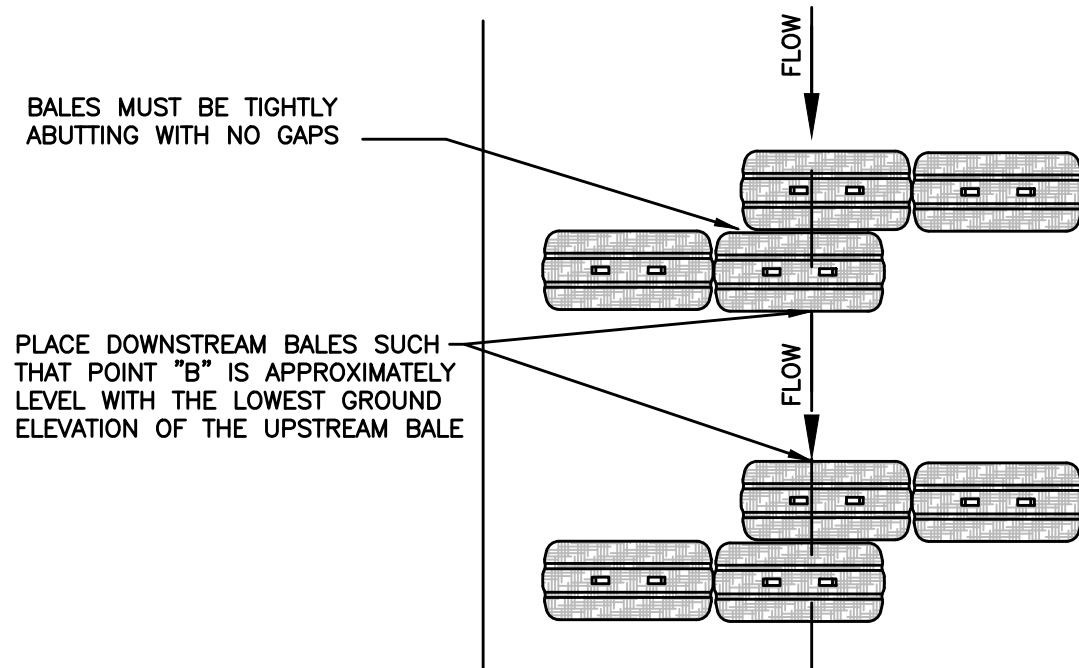
RIPRAP OUTLET PROTECTION
NOT TO SCALE



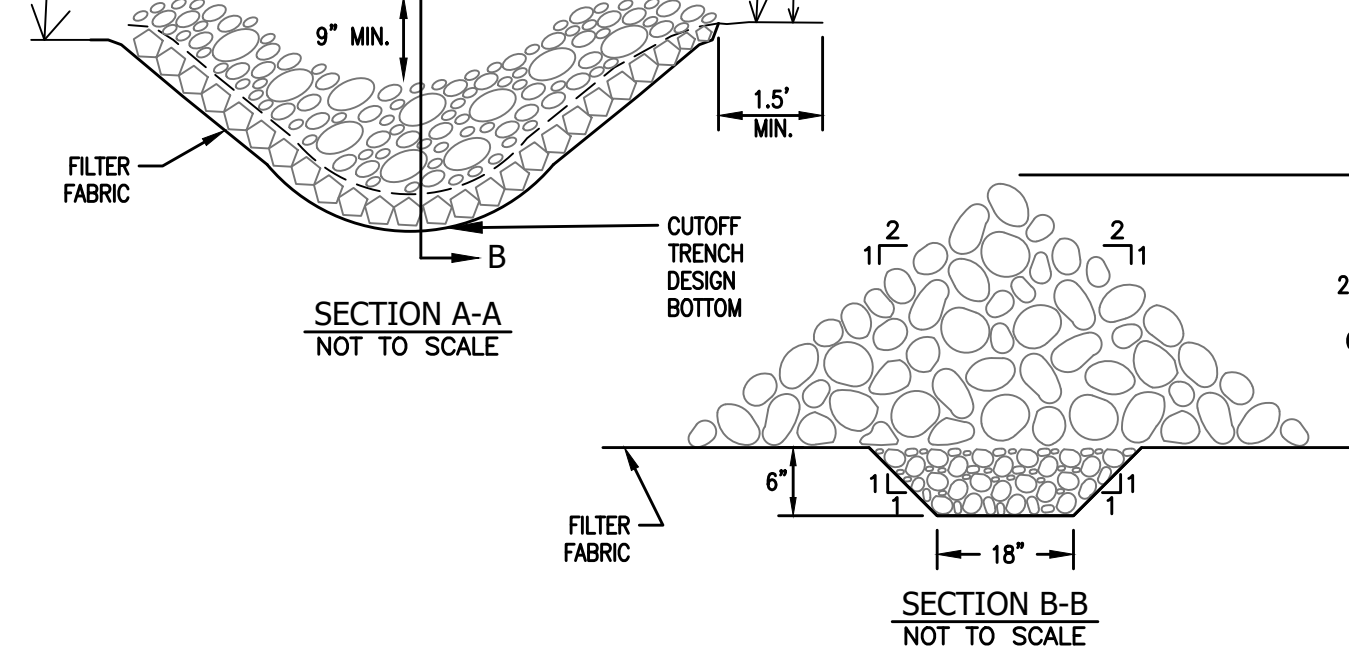
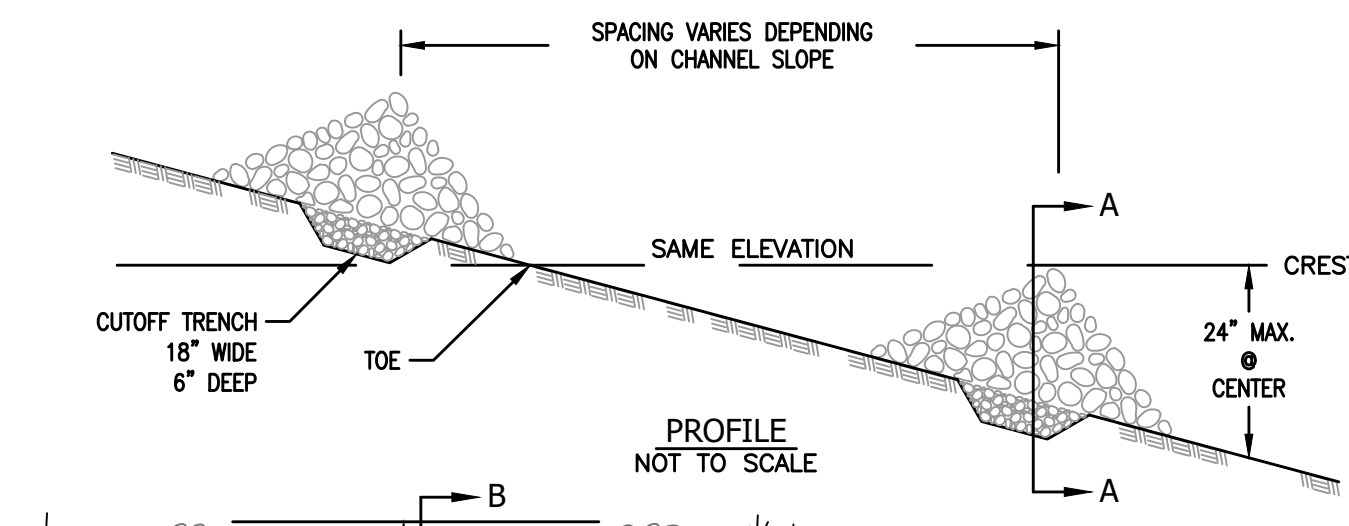
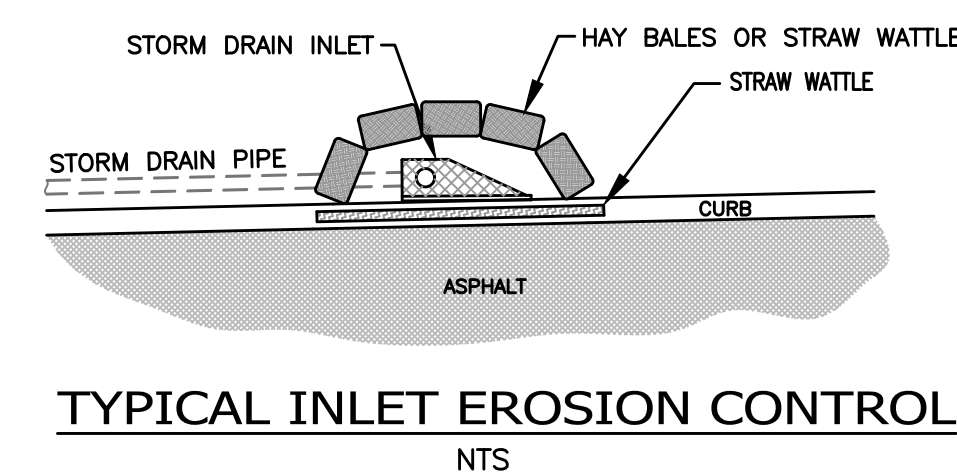
DOUBLE SILT FENCE DETAIL
NOT TO SCALE



TYPICAL SILT FENCE INSTALLATION
NTS



TYPICAL STRAW BALE INSTALLATION
NTS



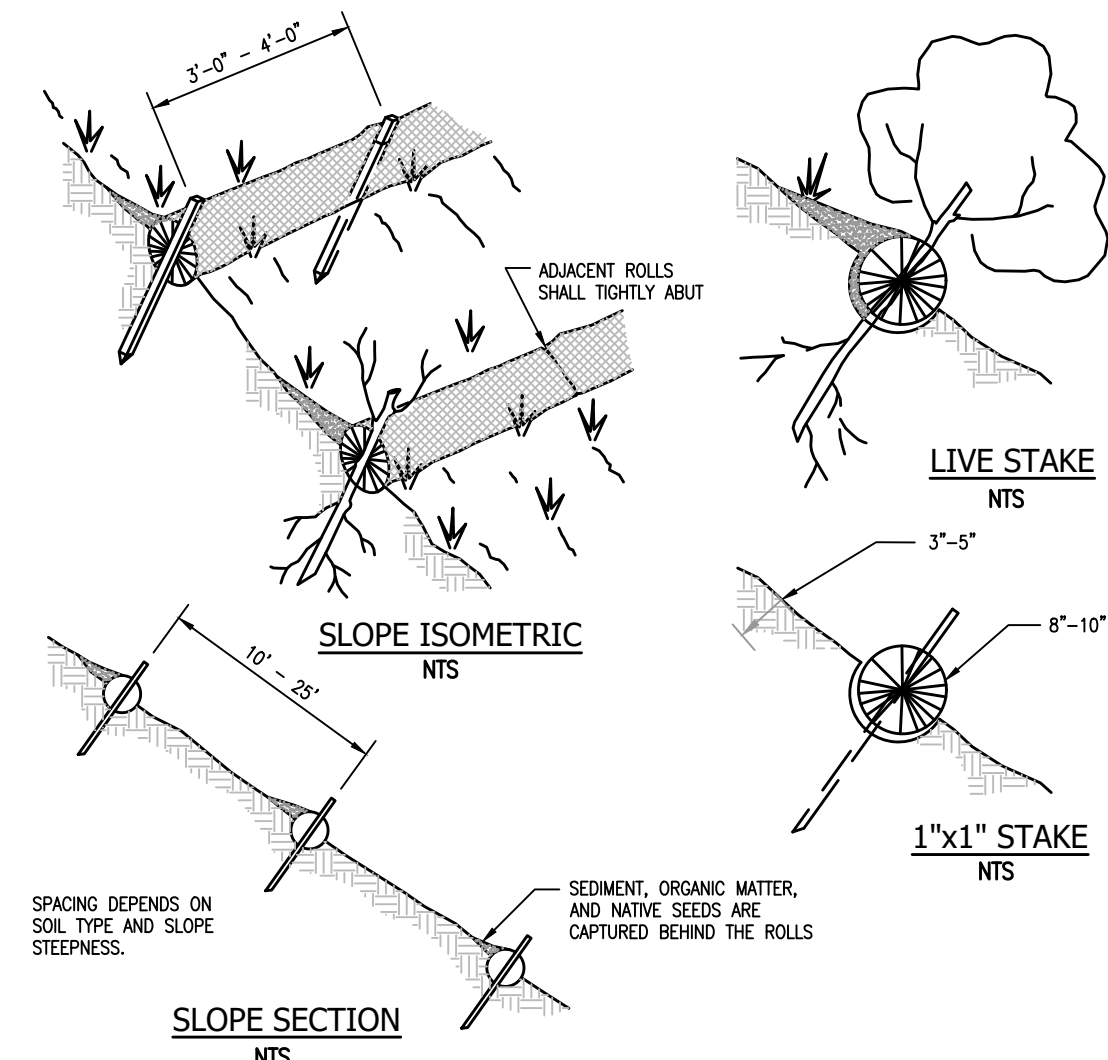
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GENERAL NOTES

- TYPE "A" SILT FENCE SHALL BE USED IN AREAS OF CONCENTRATED FLOW.
- SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
- SILT FENCE SHOULD BE PLACED WELL INSIDE PROPERTY BOUNDARY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
- WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
- AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
- RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
- IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.
- WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).

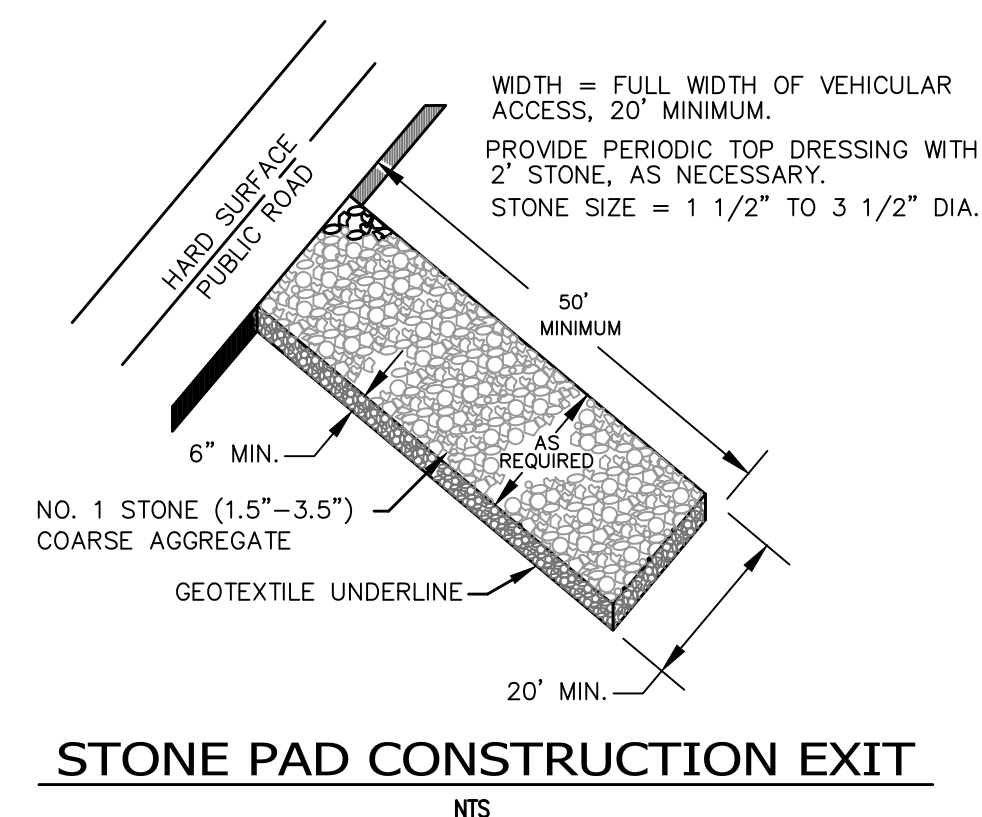
SPECIFICATIONS

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION



- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - DO NOT SCALE DRAWINGS.
 - STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3' - 5" DEEP, DUG ON CONTOUR, RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW WATTLES SLOPE STABILIZATION INSTALLATION DETAIL



STONE PAD CONSTRUCTION EXIT
NTS

DWG INFO: SA - CLIENTS.V1 - 054 - ORANGE BEACH FIRE STATION - CITY OF ORANGE BEACH ENGINEERING PRODUCTION - DWG TITLE - NOTES - DETAILS.DWG - 11/10/2021 2:21:28 PM

NUMBER:	REVISION:	DATE:

Sawgrass
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

EROSION DETAILS
FIRE STATION NO. 5
CITY OF ORANGE BEACH

ROBERT J. ROBERTSON
PROFESSIONAL ENGINEER
No. 19234
ALABAMA

SCALE: N.T.S.
DATE: SEPTEMBER, 2021
DRAWN BY: JNF
CHECKED BY: JHR
SHEET: 20 OF 20

GENERAL NOTES

- THE NOTES AND SPECIFICATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE EXCEPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEW OR COMPLETE WORK DO NOT REPLACE THE CONTRACT SPECIFICATIONS.
- CODE: CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION AND STANDARDS REFERENCED THEREIN.
- GENERAL DETAILS: AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS.
- DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.
- SHORING: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK, AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING.
- EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURE INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
- OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
- BACKFILL: BACKFILL AROUND THE EXTERIOR PERIMETER OF WALL SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETED FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL SEVEN (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCURS.
- BRACING: TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- WELDING: ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE; SEE SPECIFICATIONS FOR WELDING PROCESS TO BE USED. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE PLANS OR WHERE SPECIFICALLY APPROVED BY THE ENGINEER.
- SAFETY: THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY, AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
- INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.
- SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT, AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
- SHOP DRAWING CHECK: THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A MINIMUM OF TWO COPIES OF CHECKED SHOP DRAWINGS BEARING THE CONTRACTOR'S STAMP OF APPROVAL AND SIGNATURE. A MINIMUM OF THREE WEEKS PRIOR TO FABRICATION, THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT, COMPLETE, NOR DOES IT INFER THAT THEY SUPERCEDE THE STRUCTURAL DRAWINGS.

MASONRY

- GENERAL DETAILS: ALL BLOCKS SHALL CONFORM TO GRADE N UNITS GIVEN IN ASTM C90, LATEST EDITION, AND IN ADDITION SHALL HAVE A LINEAR SHRINKAGE OF 0.065% MAXIMUM FROM SATURATED TO THE DRY OVEN CONDITION. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN (28) DAYS WHEN PLACED IN THE STRUCTURE. PROVIDE ALL BOND BEAM UNITS, LINTELS, ETC., AS REQUIRED.
- DEFECTIVE UNITS: DO NOT USE CHIPPED OR CRACKED BLOCKS. IF ANY SUCH BLOCKS ARE DISCOVERED IN ANY FINISHING WALL, THEY SHALL BE PROMPTLY REMOVED AND REPLACED WITH NEW BLOCKS TO THE APPROVAL OF THE ENGINEER.
- CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I or II, AND SHALL BE ENTIRELY OF ONE MANUFACTURER.
- WATER: WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.
- AGGREGATES: SAND FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE. SAND AND PEA GRAVEL FOR THE GROUT SHALL CONFORM TO ASTM C404, TABLE 1, COARSE AGGREGATE, EXCEPT WHEN OTHER GRADINGS ARE SPECIFICALLY APPROVED BY THE ENGINEER.
- QUICKCLIME: QUICKCLIME SHALL CONFORM TO ASTM C5.

MASONRY (cont'd.)

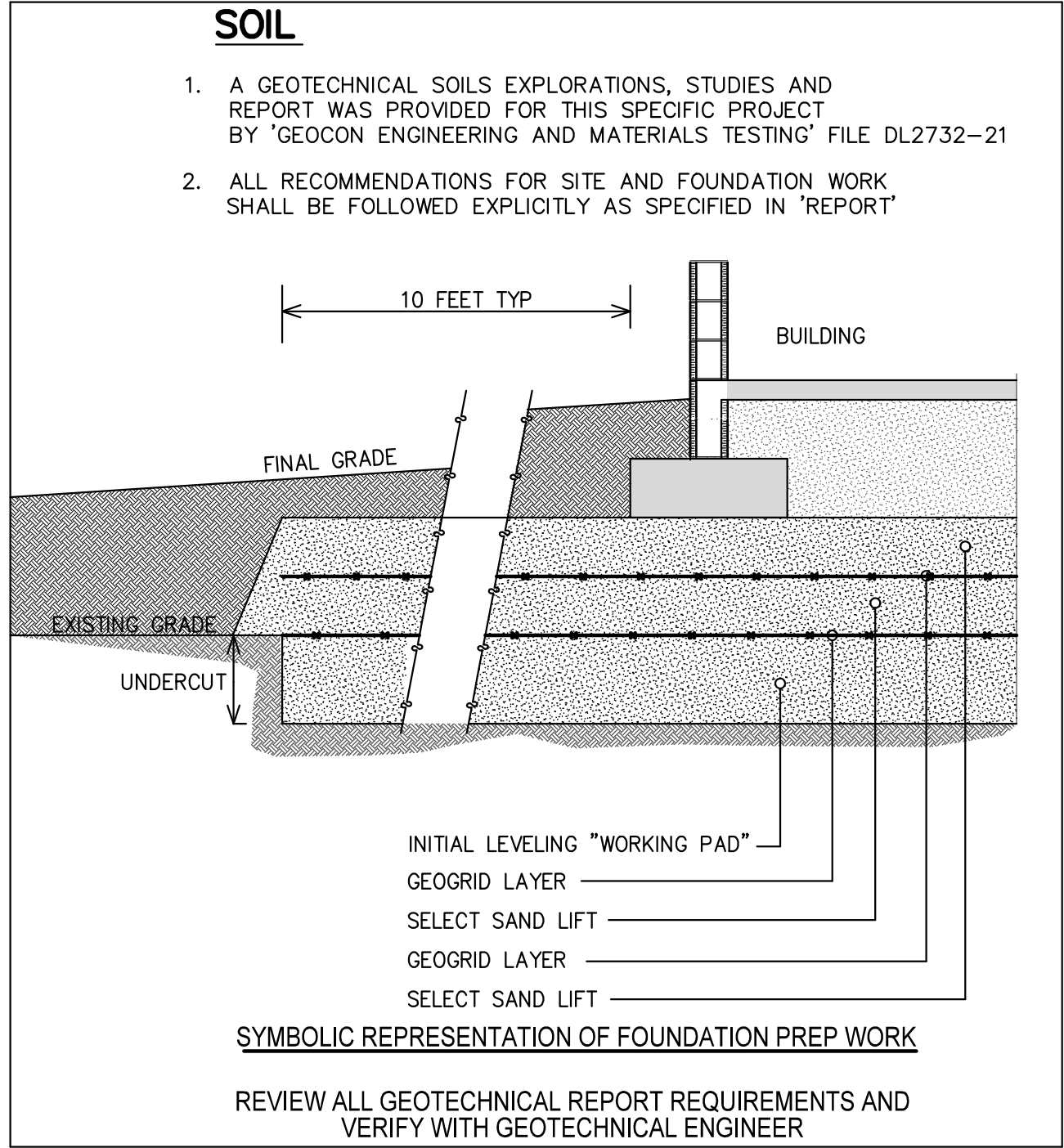
- MORTAR: SHALL BE TYPE S UNLESS OTHERWISE NOTED.
 - GROUT: FOR PUMPING SHALL BE FLUID CONSISTENCY AND SHALL NOT HAVE LESS THAN (5) SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. FLUID CONSISTENCY SHALL MEAN A CONSISTENCY AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS.
 - ADMIXTURES: THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUSTAINING DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER. THE USE OF ADMIXTURES IN THE MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FIRE CLAY, DIRT, AND OTHER DELETERIOUS MATERIALS IS PROHIBITED.
 - MIXING: PLACE THE SAND, CEMENT AND WATER IN THE MIXER IN THAT ORDER FOR EACH BATCH OR MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST 2 MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS, BUT IN NO CASE LESS THAN 10 MINUTES. USE MIXERS TO SECURE A UNIFORM CAPACITY. BATCHES REQUIRING FRACTIONAL SACKS WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHED FOR EACH SUCH BATCH. RETEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RETEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN ONE HOUR AFTER INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON THE BOARDS TO A SLUMP OF 2-3/4 INCHES PLUS OR MINUS 1/4 INCH USING A TRUNCATED CONE. 4 INCHES BY 2 INCHES; 6 INCHES HIGH.
 - CONSTRUCTION JOINTS: WHEN GROUTING IS STOPPED FOR A PERIOD OF (1) HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1-1/2 INCHES MINIMUM BELOW THE UPPER-MOST UNIT.
 - ALIGNMENT OF VERTICAL CELLS: ALL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3 INCHES BY 3 INCHES, EXCEPT WHERE OPEN END UNITS ARE USED.
 - LAYING: IN PLACING MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLIDLY FILL A HEAD JOINTS. LAY ALL MASONRY WITH RUNNING BOND. HOLD RAKING TO A MINIMUM.
 - REINFORCEMENT: REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT. SEE STRUCTURAL NOTES & DETAILS FOR SIZE, GRADE, LAPS ETC.
 - GROUT QUALITY: GROUT FILL FOR CELLS SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN (3) PARTS SAND, TO (2) PARTS PEA GRAVEL, 3/8" INCH MAXIMUM SIZE COARSE AGGREGATE. GROUT FILL USING COARSER AGGREGATE MAY BE USED IF THE MIX IS PROPERLY DESIGNATED AND APPROVED BY THE ENGINEER. THE MAXIMUM SIZE OF AGGREGATE USED SHALL NOT EXCEED 1/5 THE LATERAL DIMENSION OF THE CELL TO BE FILLED. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT (28) DAYS.
 - GROUTING: ALL WALLS SHALL HAVE ALL CELLS FILLED SOLID WITH GROUT.
 - DOWELS: ALL VERTICAL WALL REINFORCEMENT SHALL HAVE DOWELS EQUAL IN SIZE EMBEDDED INTO FOOTINGS UNLESS NOTED OTHERWISE ON THESE PLANS.
 - STRENGTH: COMPRESSIVE STRENGTH (F'm) SHALL BE 1500 PSI.
 - MAXIMUM HEIGHT: MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN 4 FEET UNLESS PROPER HIGH-LIFT PROCEDURES ARE USED.
- MASONRY REBAR LAP LENGTH:
BAR SIZE
#4..... 24"
#5..... 24"
#6..... 36"
#7..... 42"
#8..... 48"
- REINFORCING COVER: 3" BELOW GRADE, 2" OTHER
 - SPECIAL INSPECTION REQUIRED (SEE 'INSPECTION' & 'INSPECTION NOTES')

CONCRETE AND REINFORCEMENT

- CONCRETE PLACEMENT AND QUALITY: SPECIFIED IN PROJECT SPECIFICATIONS.
 - DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE POURING.
 - SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS AND COLUMNS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARYING LENGTH SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED EIGHT FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THAT THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
 - INSERTS: ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING.
 - SPICES: SPICE BARS IN MEMBERS SUCH AS SPANDRELS, BEAMS, ETC., AS FOLLOWS: TOP BARS AT CENTERLINE OF SPAN, BOTTOM BARS AT THE SUPPORT. ALL REINFORCING STEEL SHALL BE SECURELY WIRED AND PROPERLY SUPPORTED ABOVE GROUND AND AWAY FROM THE FORMS.
 - CONSTRUCTION JOINTS: CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF CONSTRUCTION JOINT LOCATION IN SLABS AND BEAMS.
 - TEMPERATURE AND SHRINKAGE REINFORCEMENT SHALL HAVE A LAP OF THIRTY (30) BAR DIAMETERS, BUT NOT LESS THAN 18 INCHES, AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN FIVE (5) FEET APART.
 - REBAR GRADES: ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
#3 & SMALLER BARS.....GRADE 40
#4 & LARGER BARS.....GRADE 60
- THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETEST SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI) AND THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25.
- WELDED WIRE FABRIC: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.
 - WELDING: TACK WELDING OF REBAR IS NOT PERMITTED UNLESS CALLED FOR OR APPROVED BY THE ENGINEER. WELDING OF STIRRUPS, TIES, INSERTS OR OTHER SIMILAR ELEMENTS TO LONGITUDINAL REINFORCING BARS SHALL NOT BE PERMITTED.
 - REBAR COVER: MINIMUM REBAR COVER FOR PRESTRESSED CONCRETE SHALL BE AS SHOWN IN THIS TABLE:
- | EXPOSURE CONDITION | MINIMUM COVER | TOLERANCE (-) |
|--|---------------|---------------|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
EXPOSED TO EARTH OR WEATHER: | 3" | 3/8 INCH |
| NO. 5 AND SMALLER BARS | 3" | 1/4 INCH |
| NO. 6 AND LARGER BARS | 3" | 1/4 INCH |
| NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS) | 2" | 1/4 INCH |
| SLABS ON GRADE | 2" | 1/4 INCH |
- TOLERANCES FOR REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS TWO (2) INCHES, EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE TOLERANCES SHALL BE 1/2 INCH.
 - CONCRETE QUALITY: SHALL BE AS SHOWN IN TABLE BELOW:
- | CONCRETE USE | STRENGTH AT 28 DAYS | SLUMP | AIR | AGGREGATE SIZE | AGGREGATE TYPE |
|--------------------------|---------------------|-------|-----|----------------|----------------|
| EXTERIOR WALKS AND CURBS | 3000 | 6" | - | 1 1/2" | HARDROCK |
| GRADE SLAB | 3000 | 4" | - | 1" | HARDROCK |
| ELEVATED SLABS | 3000 | 4" | - | 1" | HARDROCK |
| ICF WALLS | 3000 | 5-6" | - | 1/2" max. | HARDROCK |
- CONCRETE WEIGHT: ALL CONCRETE SHALL BE OF REGULAR WEIGHT OF 145 POUNDS PER CUBIC FOOT UNLESS NOTED OTHERWISE.
 - AGGREGATE: SIZE OF AGGREGATE SHALL CONFORM TO ASTM C33-85.
3/4".....ASTM SIZE C67
1".....ASTM SIZE C57
 - CEMENT: SHALL BE TYPE II.
 - CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY TESTING AGENCY.
 - WET SET: REINFORCEMENT MAY NOT BE WET SET IN CONCRETE POURS.
 - ROUGHENED SURFACES: WHERE INDICATED ON THE DRAWINGS, ROUGHENED SURFACES SHALL BE PROVIDED BY MEANS OF HEAVY RAKING OR GROOVING. OTHER METHODS MAY BE ACCEPTABLE PENDING WRITTEN APPROVAL FROM THE ENGINEER. ALL INTERFACING SURFACES MUST BE CLEAN AND FREE OF LOOSE MATERIALS.

CONCRETE (cont'd.)

- ADMIXTURES: NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE MIX WITHOUT THE APPROVAL OF THE ENGINEER, UNLESS NOTED OTHERWISE.
- CONCRETE TESTINGS: ALL TESTINGS SHALL BE PERFORMED BY INDEPENDENT LABORATORY.
TESTING PER:
a. ASTM C143
b. ASTM C39 : 1 TEST CYLINDER PER 50 CUBIC YARDS (OR FRACTION THERE OF) PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:
1 AT 3 DAYS
1 AT 7 DAYS
1 AT 28 DAYS
ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER DIRECTION OF THE ENGINEER. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONCRETE SEALER REQUIREMENTS.



STRUCTURAL SHEATHING SCHEDULE:

ROOF SHEATHING:	~ 5/8" APA RATED SHEATHING W/ 8D RING SHANK GALV. NAILS AT 4" O.C. EDGE AND 6" O.C. INTERIOR SPACING (GLUE AND NAIL)
ATTIC STORAGE FLOOR:	~ 3/4" APA RATED SHEATHING W/ #10 SCREWS AT 4" O.C. EDGE AND 12" O.C. INTERIOR SPACING (GLUE AND SCREW)
PORCH AND SOFFIT CEILING:	~ 1/2" APA RATED SHEATHING W/ 8D RINGED GALV. NAILS AT 4" O.C. EDGE AND 8" O.C. INTERIOR SPACING OR 1x6" T&G PINE

LOADING

PER INTERNATIONAL BUILDING CODE, 2018

LOCATION:	LOADING: PSF		CONSTRUCTION LL
	LIVE LOAD	DEAD LOAD	
ROOF	20	20	20

MINIMUM UNIFORM WIND PRESSURE FOR ROOF CLADDING:

ZONE	COMPONENT AREA (sq.ft.)	PRESSURE REQUIREMENT (psf)
	ZONE 1	
ZONE 2		
ZONE 3	10	(-) 125.4 PSF

USE COMPONENT AREA OF 10 SQ FT FOR ROOFING SYSTEM

INSPECTION

- GENERAL: IN ADDITION TO THE INSPECTIONS REQUIRED BY THE IBC, THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE TYPES OF WORK DESCRIBED IN THIS SECTION.
- CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE AND PNEUMATICALLY PLACED CONCRETE.

STRUCTURAL INSPECTION NOTES

- REFER TO THE INTERNATIONAL BUILDING CODE CODE FOR AMPLIFICATION OF THE FOLLOWING REQUIREMENTS:
- FOUNDATIONS:

	YES	NO	N/A
A. COMPACTED FILL INCLUDING UTILITY TRENCHES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- CONCRETE:

CONTINUOUS INSPECTION & TEST CYLINDERS FOR CONCRETE OVER 2500 PSI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------
- REINFORCING:

A. PLACING OF REINFORCING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SAMPLING & TESTING OF STEEL (MILL REPORTS & IDENTIFICATION OF STEEL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. CONTINUOUS INSPECTION OF INSTALLATION OF REBAR COUPLERS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- MASONRY:

A. SAMPLING & TESTING OF MASONRY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. SAMPLING & TESTING OF GROUT & MORTAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. CONTINUOUS INSPECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- INSULATING CONCRETE FILL:

TEST & INSPECTIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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- WELDING:

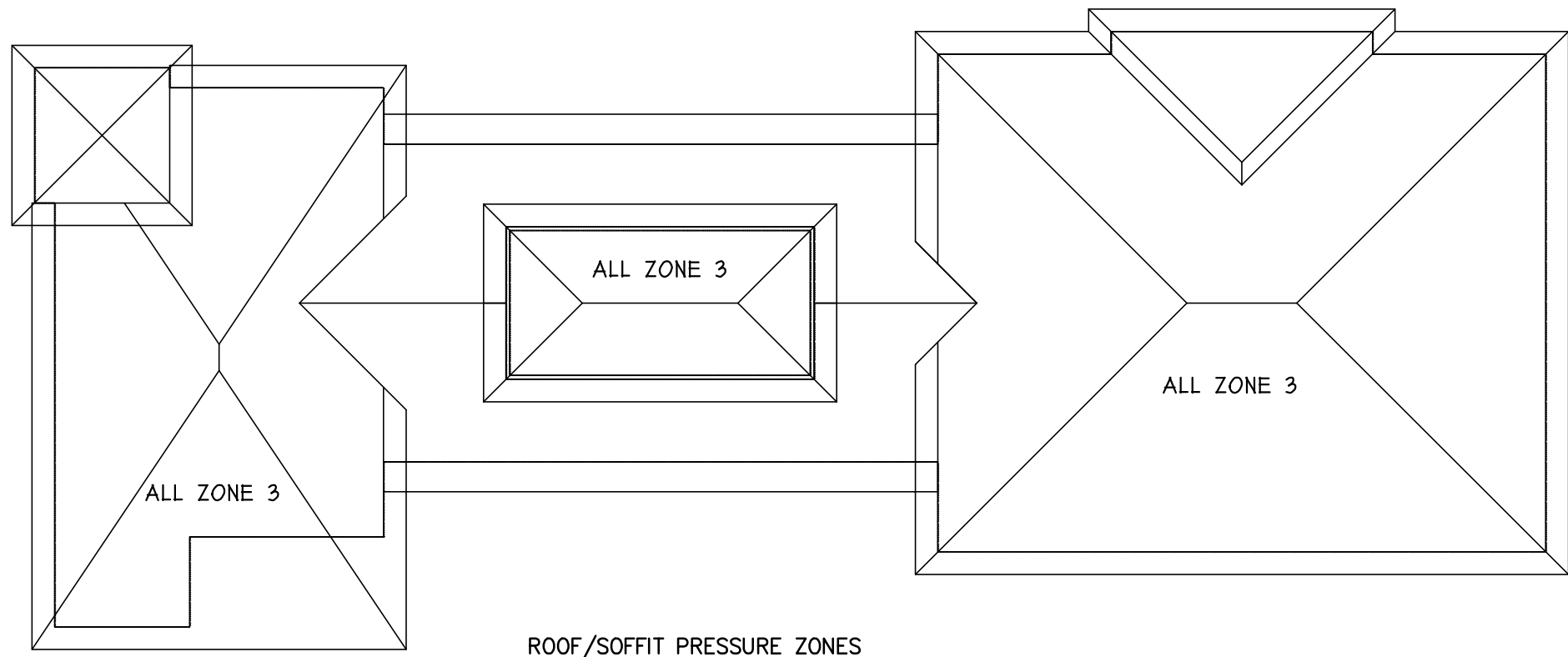
A. ALL STRUCTURAL FIELD WELDING (INCLUDES DECKING)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. NON-DESTRUCTIVE TESTING OF MOMENT-RESISTING SPACE FRAMES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. STRUCTURAL LIGHT GAGE METAL FRAMING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- BOLTING:

A. HIGH STRENGTH BOLTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. EXPANSION BOLTS IN CONCRETE OR MASONRY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- STRUCTURAL STEEL:

A. MILL REPORTS & IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) SAMPLING & TESTING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------
- APPROVED FABRICATORS:

MUST SUBMIT CERTIFICATE OF COMPLIANCE FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS, PRECAST CONCRETE, ETC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------
- ALL TESTS & INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS UNLESS THE STRUCTURAL ENGINEER IS CONTRACTED TO DO SO.

NOTE: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED.



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Engineers, llc
5125 OAK GLEN DR
PACF, FL
AL. Cert. of Auth: 2453

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: ACH
CHECKED: ACH
DATE: 11-01-2021
REVISION:

SCALE: AS NOTED

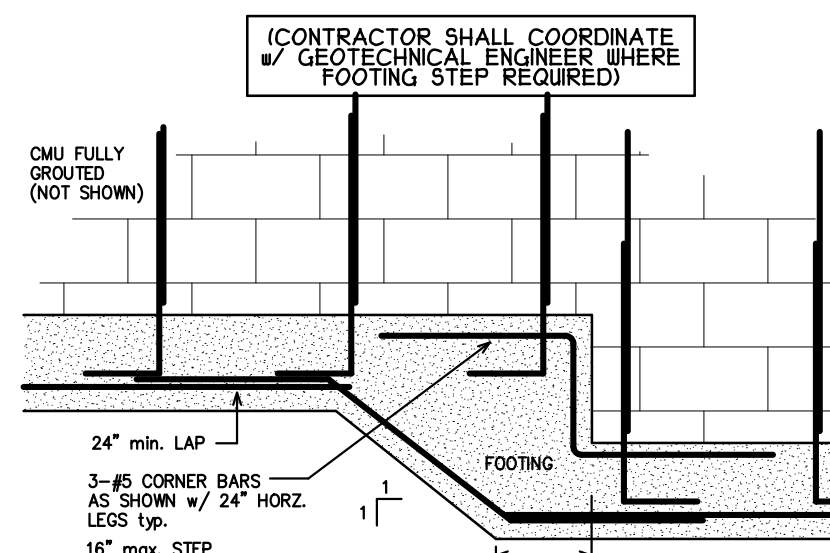
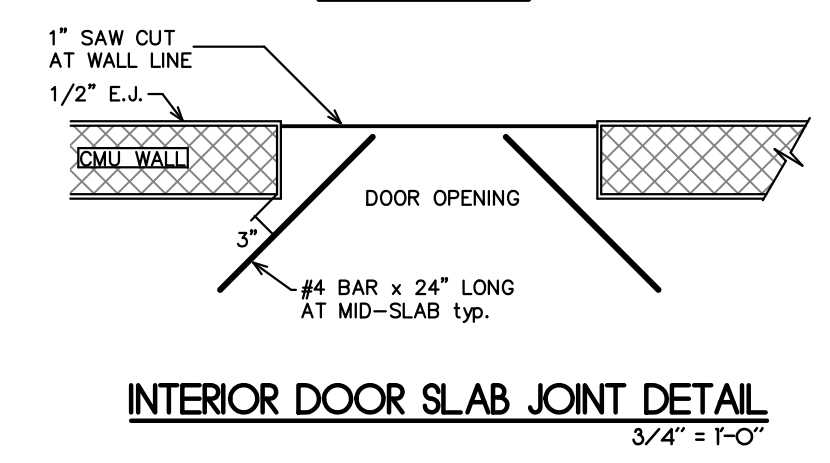
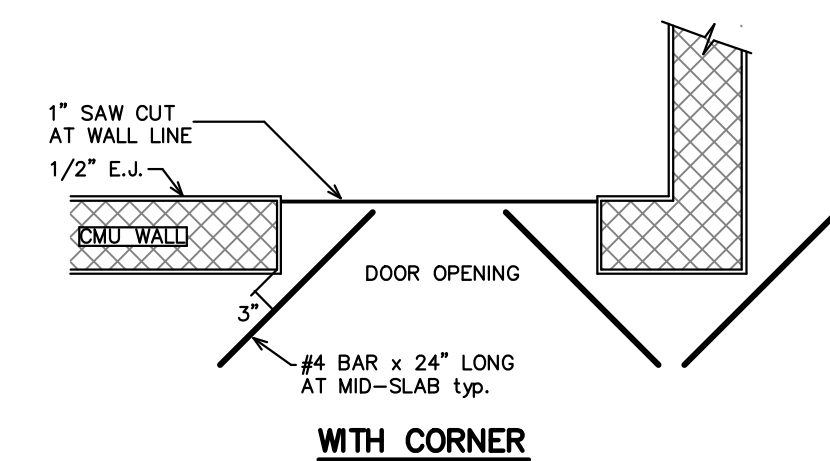
SHEET NO.:

S1.0

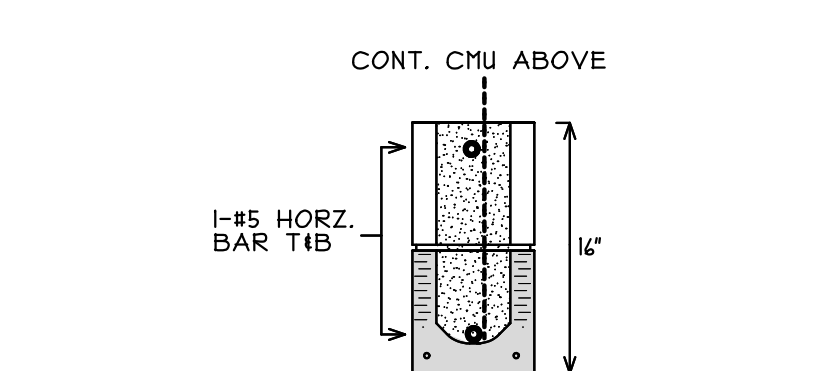
NOTES

5/8" ANCHOR BOLTS
EMBEDDED 7" min. INTO FOUNDATION
AT MISPLACED ANCHOR BOLTS: EPOXY
THREADED ROD 8" INTO FOUNDATION w/
SIMPSON SET EPOXY-TIE SYSTEM

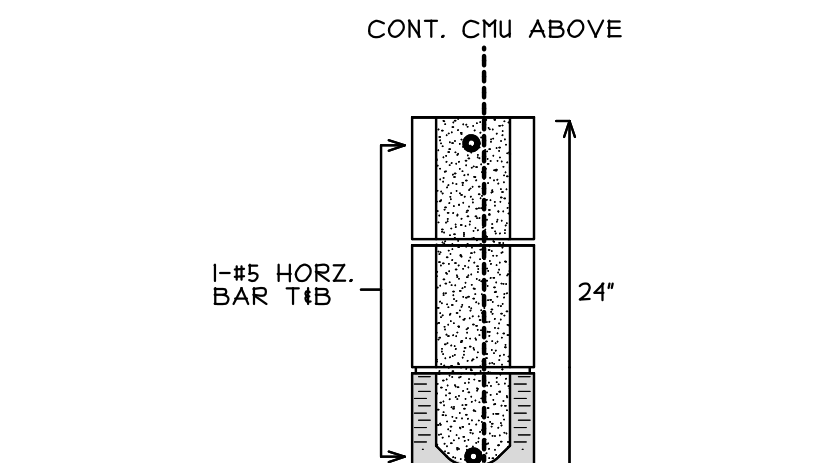
INTERIOR GRADE BEAM AT WOOD WALLS
NTS



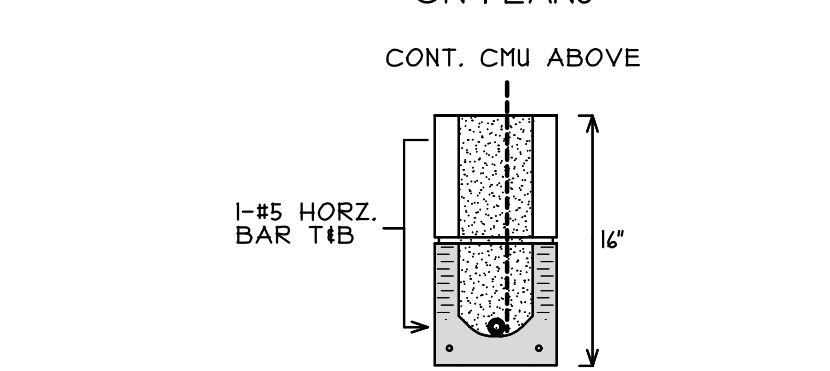
Typ. FOOTING STEP
NTA



8F16-1B/1T CAST-CRETE LINTEL
AT NOTED LOCATIONS
ON PLANS

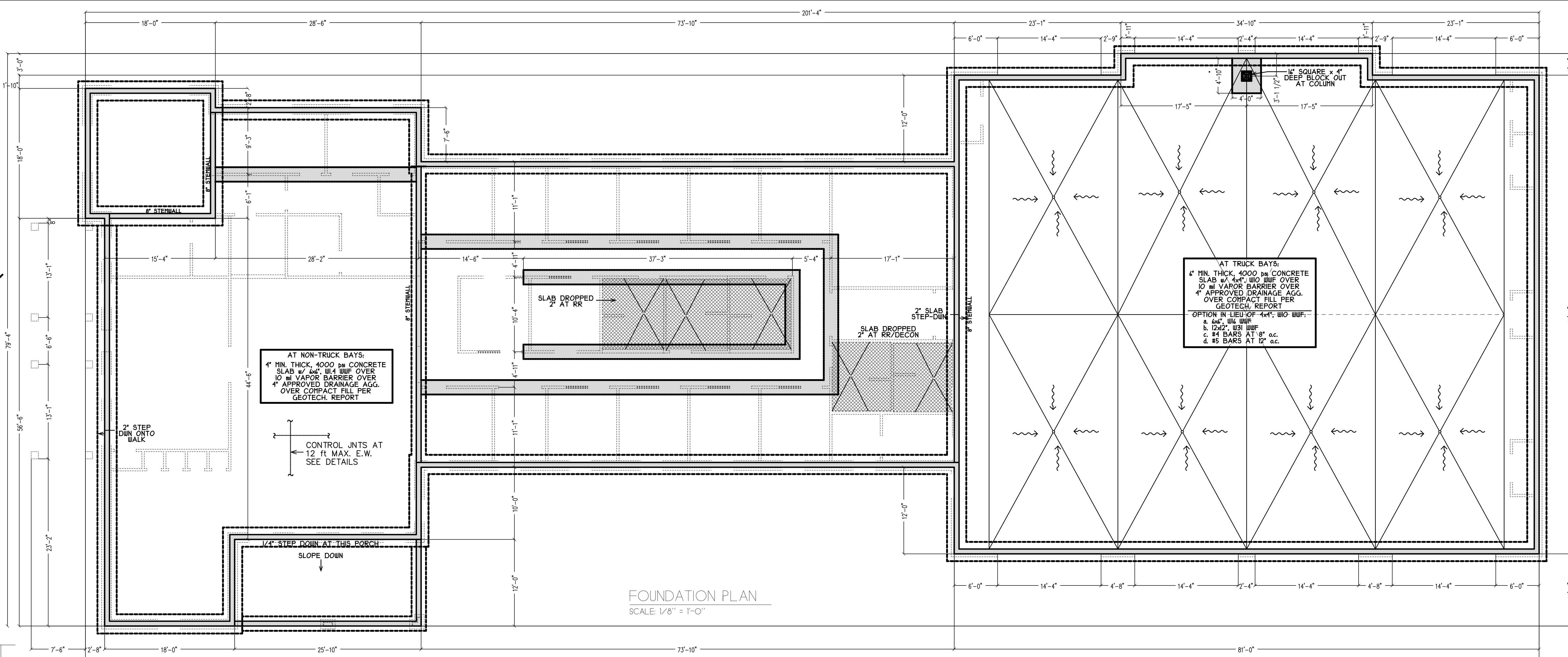


8F24-1B/1T CAST-CRETE LINTEL
AT NOTED LOCATIONS
ON PLANS



8F8-1B CAST-CRETE LINTEL
ALL OTHER LOCATIONS

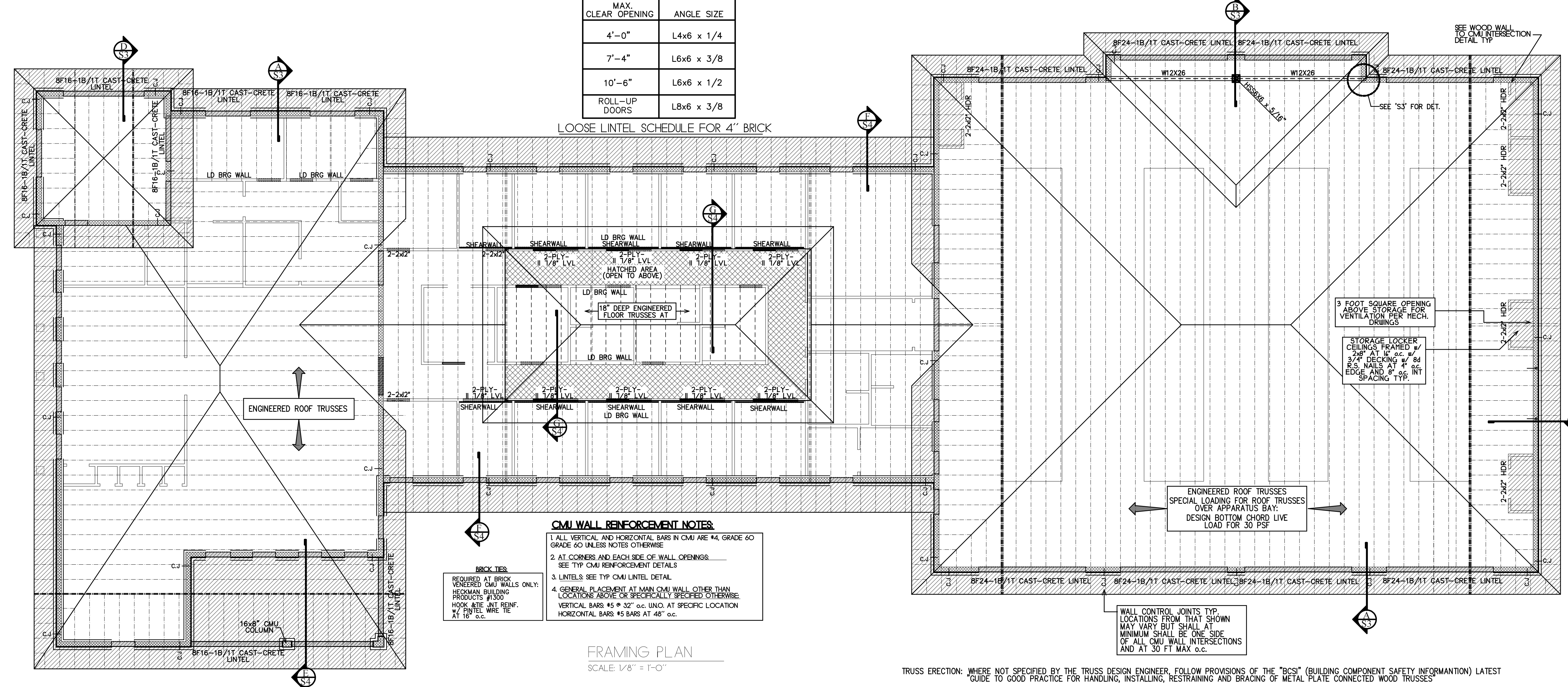
CMU LINTEL DETAILS
NTS



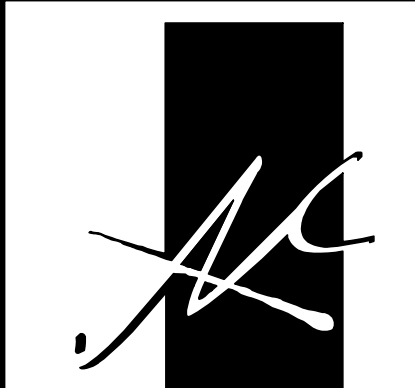
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

MAX. CLEAR OPENING	ANGLE SIZE
4'-0"	L4x6 x 1/4
7'-4"	L6x6 x 3/8
10'-6"	L6x6 x 1/2
ROLL-UP DOORS	L8x6 x 3/8

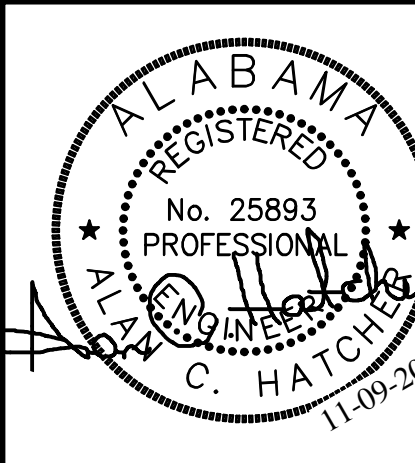
LOOSE LINTEL SCHEDULE FOR 4" BRICK



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



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PACE, FL
850-393-0937
AL. Cert. of Auth: 2453

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

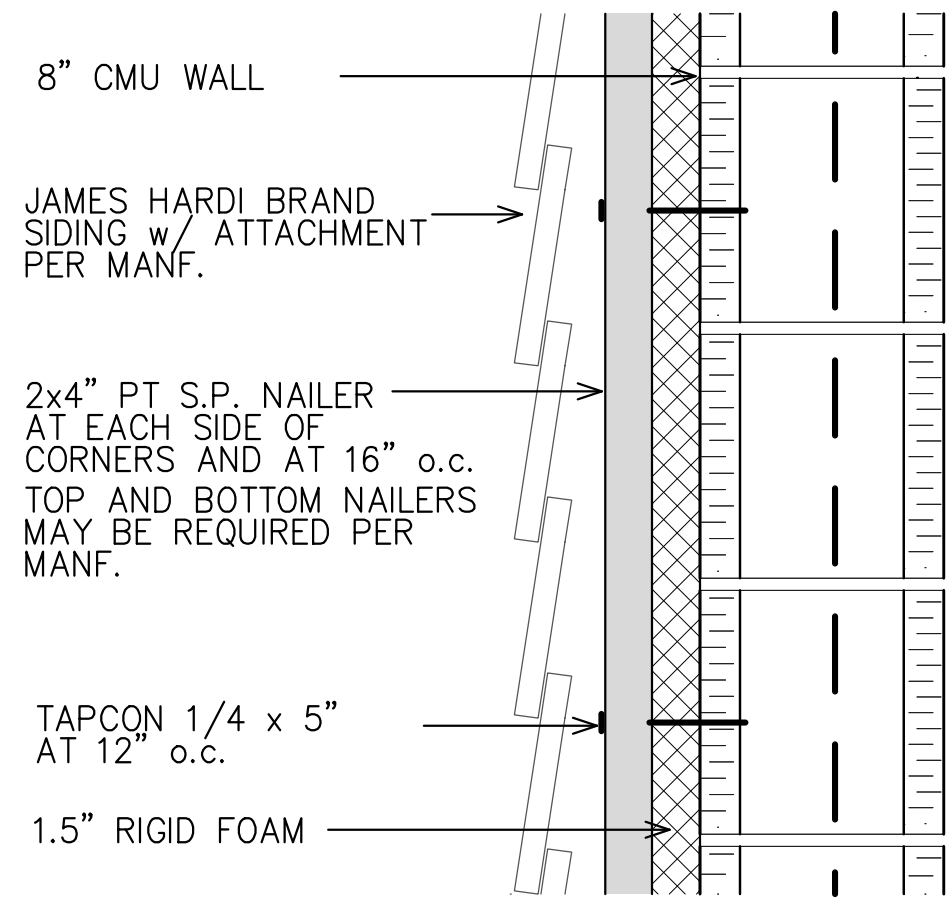
JOB NO.:
DRAWN: ACH
CHECKED: ACH
DATE: 11-01-2021
REVISION:

SCALE: AS NOTED

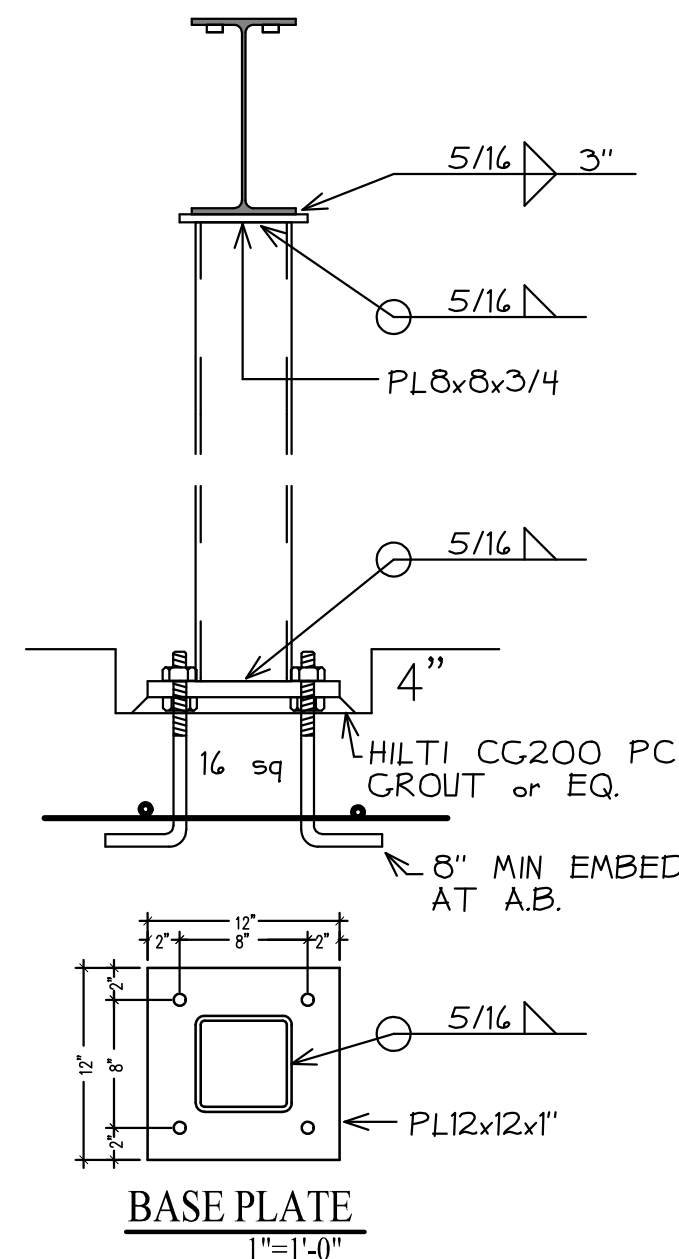
SHEET NO.:

S2.0

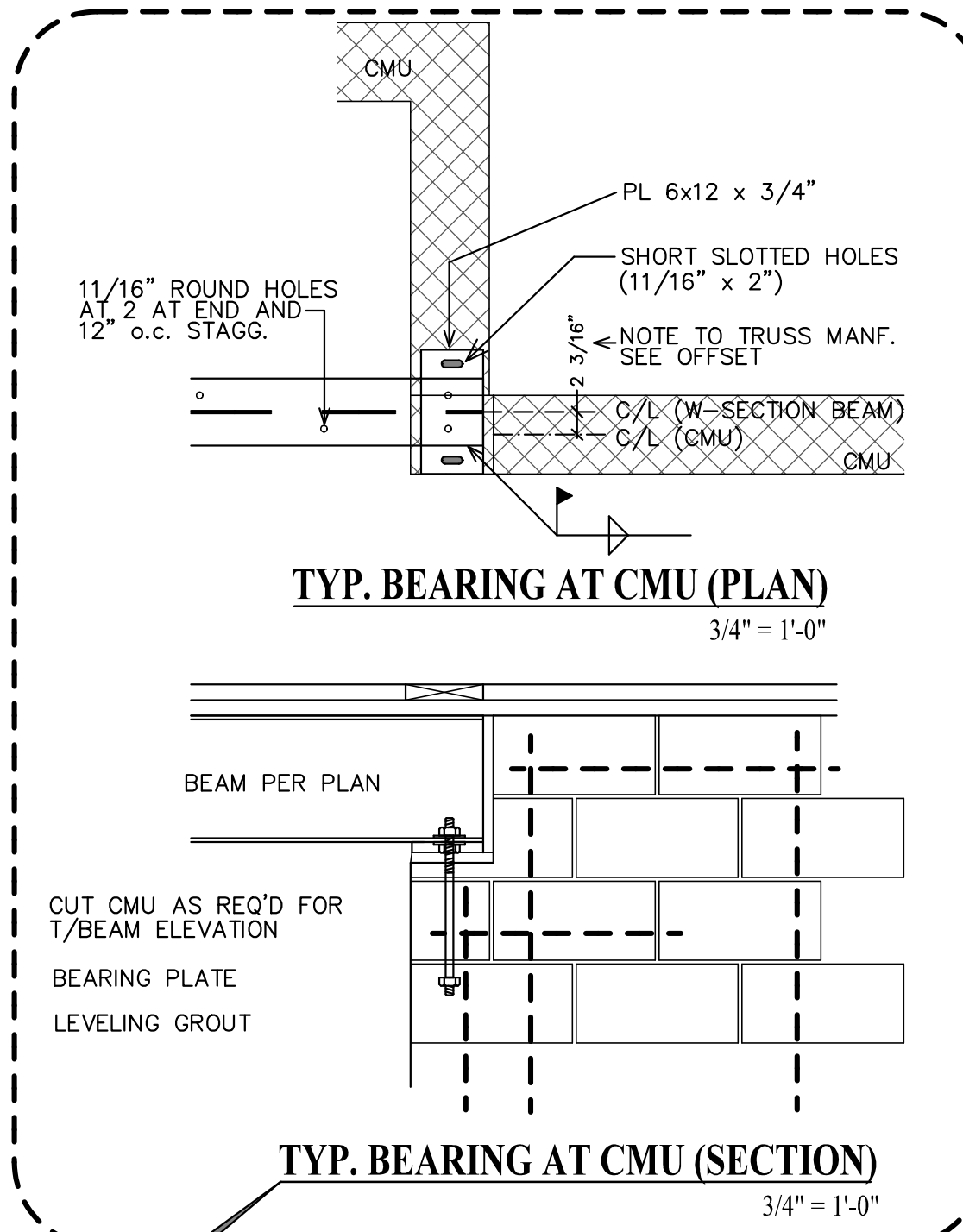
FRMING/FOUNDATION PLAN



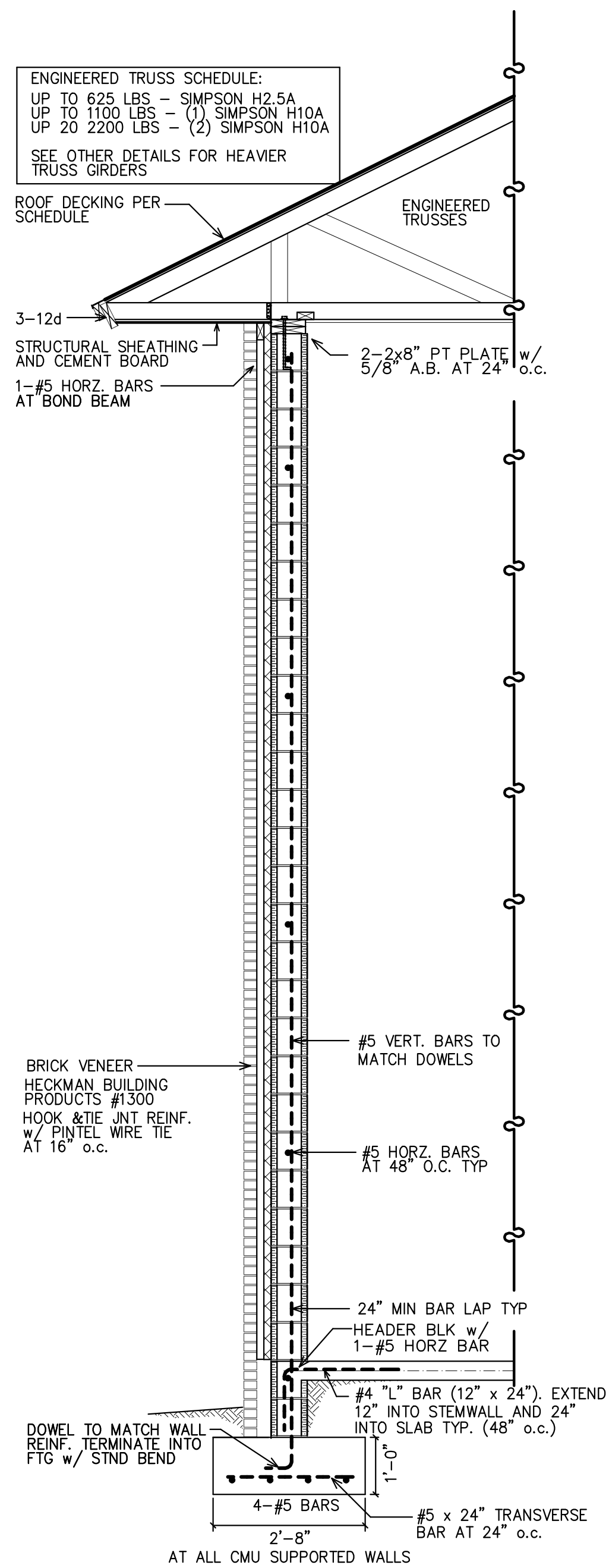
HARDI ATTACHMENT AT CMU
NTS



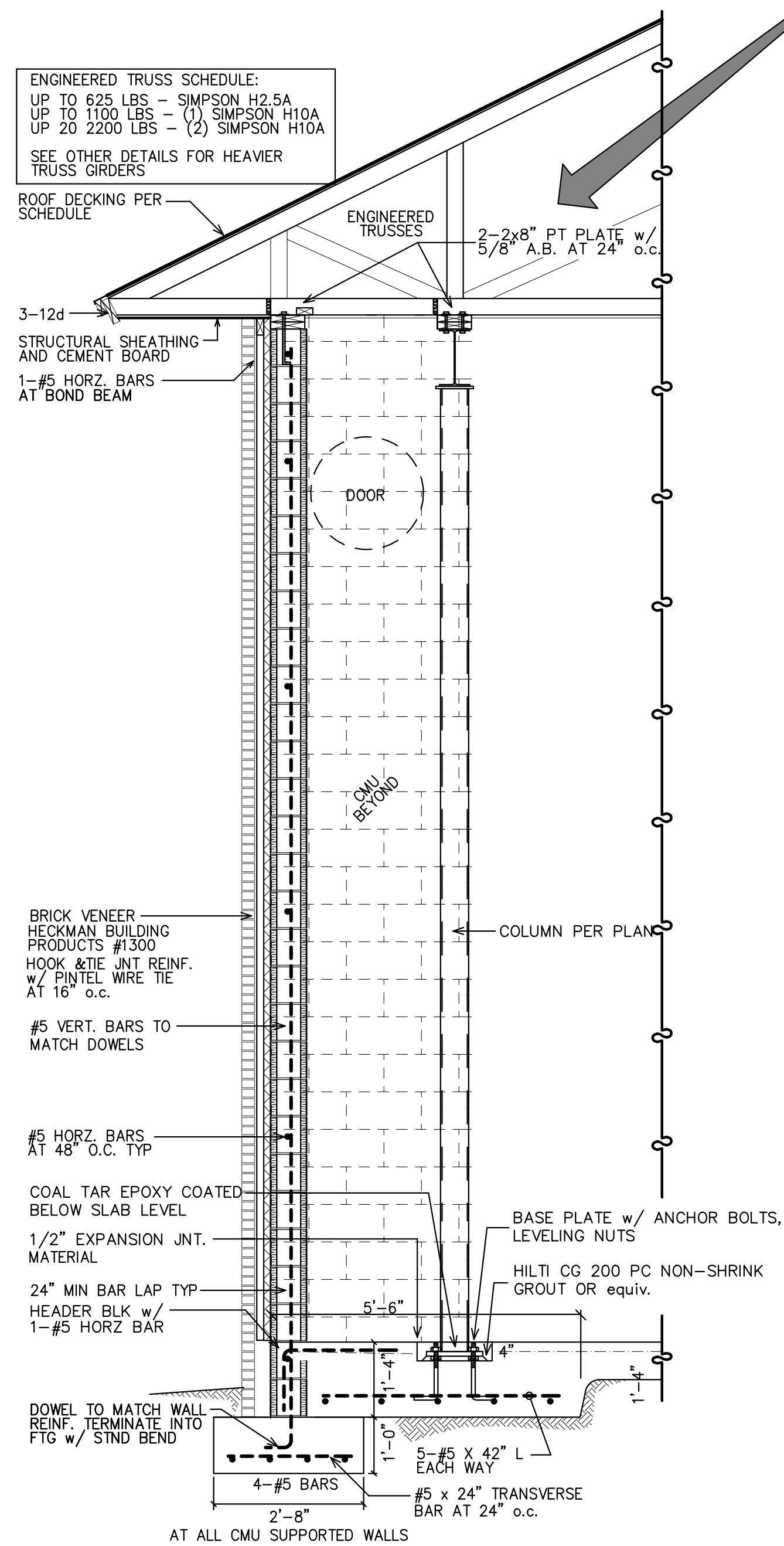
HSS 6x6 COLUMN BASE
1"=1'-0"



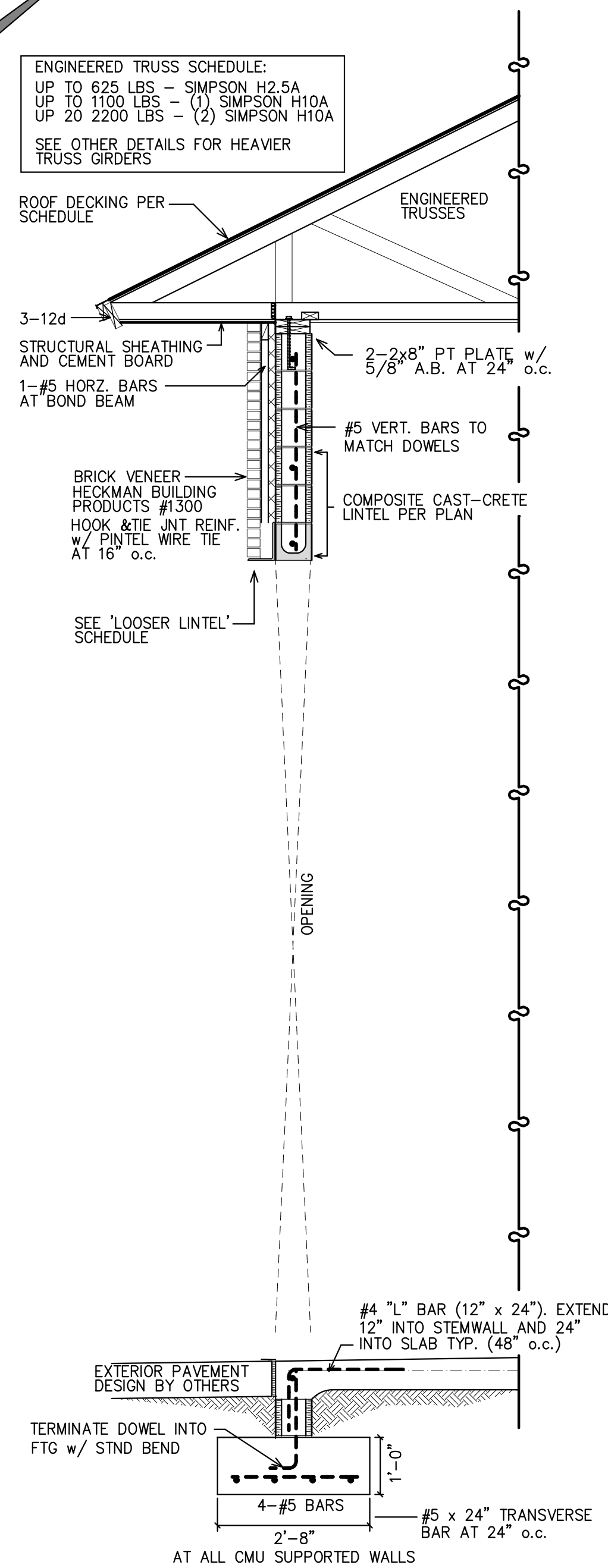
TYP. BEARING AT CMU (SECTION)
3/4" = 1'-0"



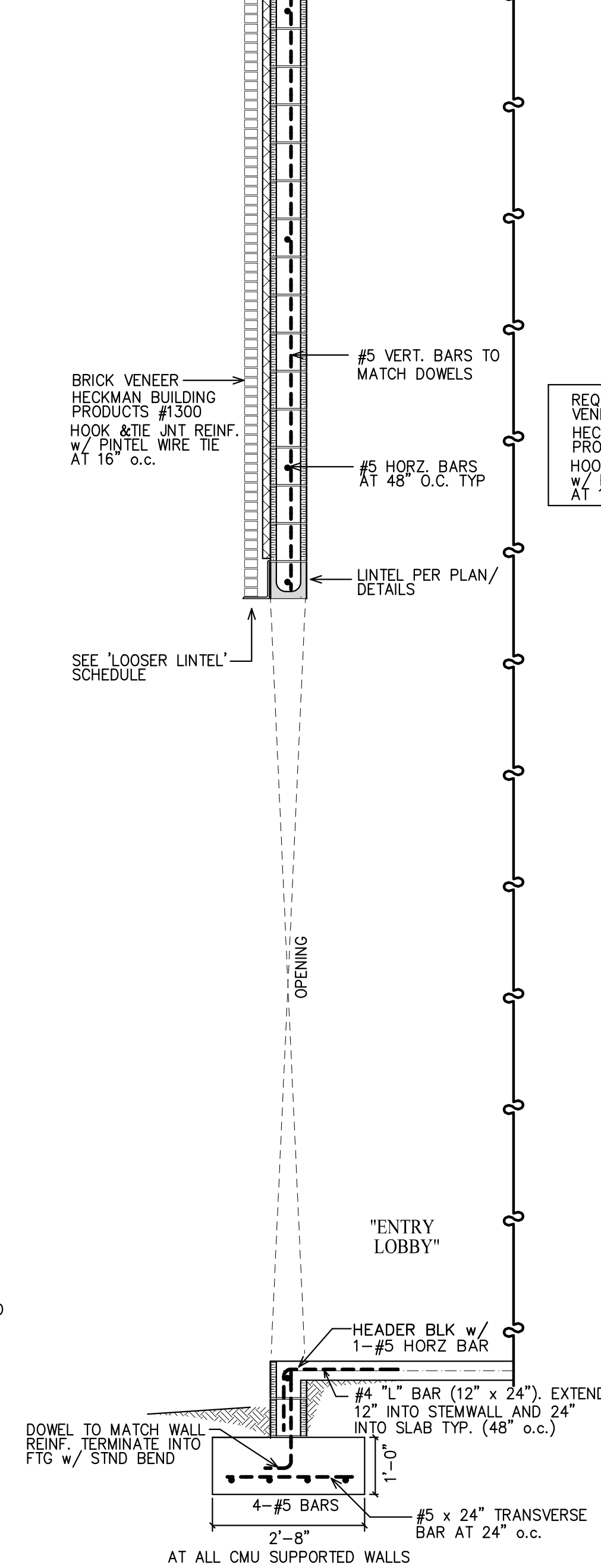
A SECTION THRU "APP. BAY"
1/2" = 1'-0"



B SECTION THRU "APP. BAY" @ COLUMN
1/2" = 1'-0"

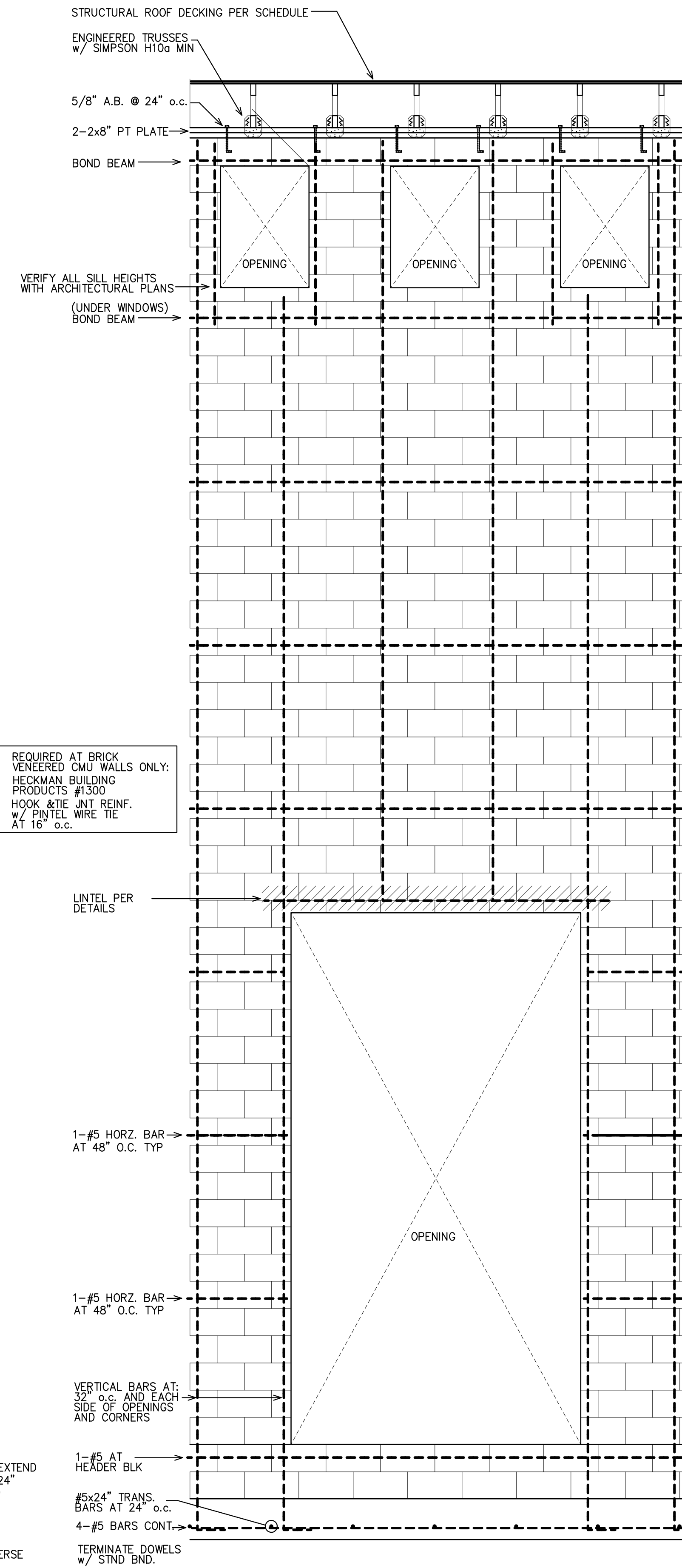


C SECTION THRU "APP. BAY" DOOR
1/2" = 1'-0"

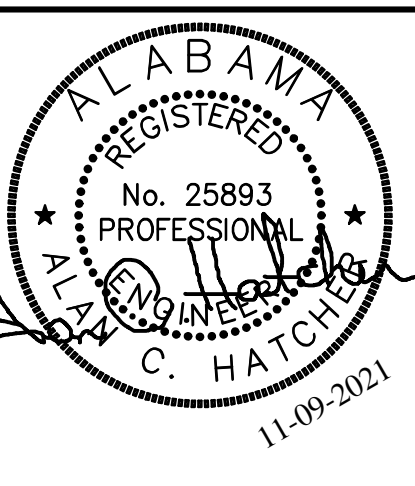


D SECTION THRU "ENTRY LOBBY"
1/2" = 1'-0"

ALL WATER-PROOFING SYSTEMS ARE BY OTHERS



TYP. OPENING AT "ENTRY LOBBY" DETAIL
1/2" = 1'-0"



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PACE, FL
850-393-0937
AL. Cert. of Auth: 2453

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

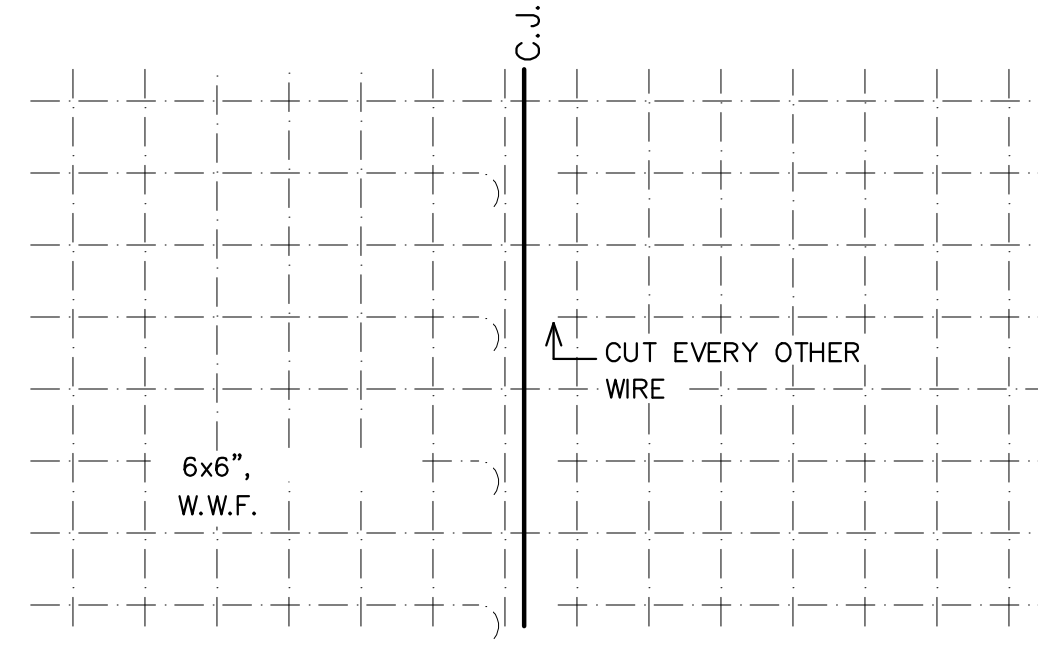
JOB NO.:
DRAWN: ACH
CHECKED: ACH
DATE: 11-01-2021
REVISION:

SCALE: AS NOTED

SHEET NO.:

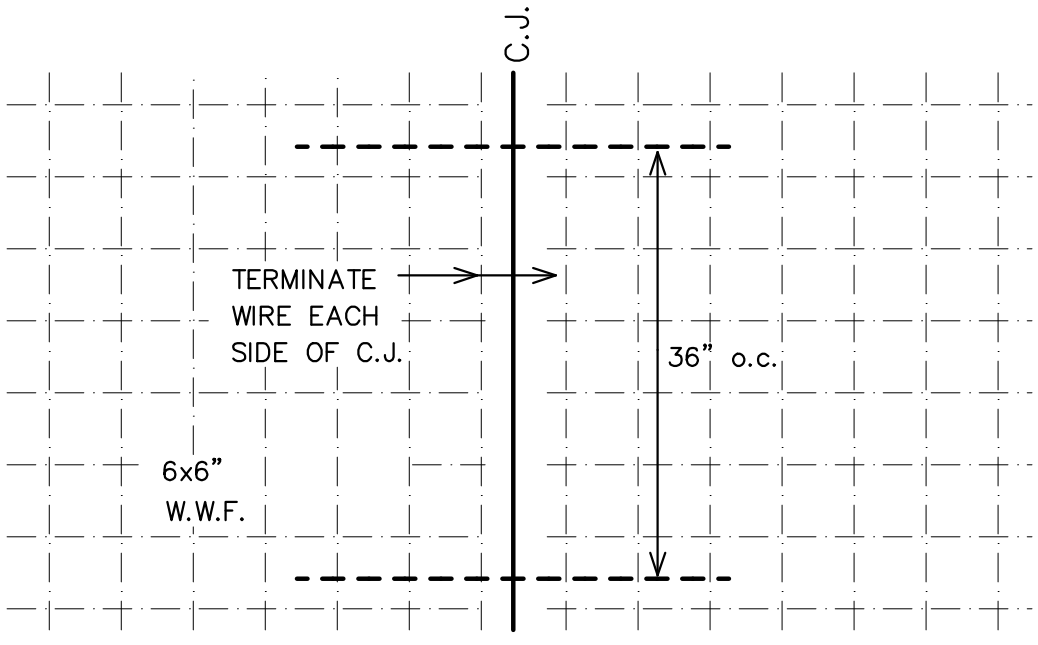
S3.0

SECT. DETAILS



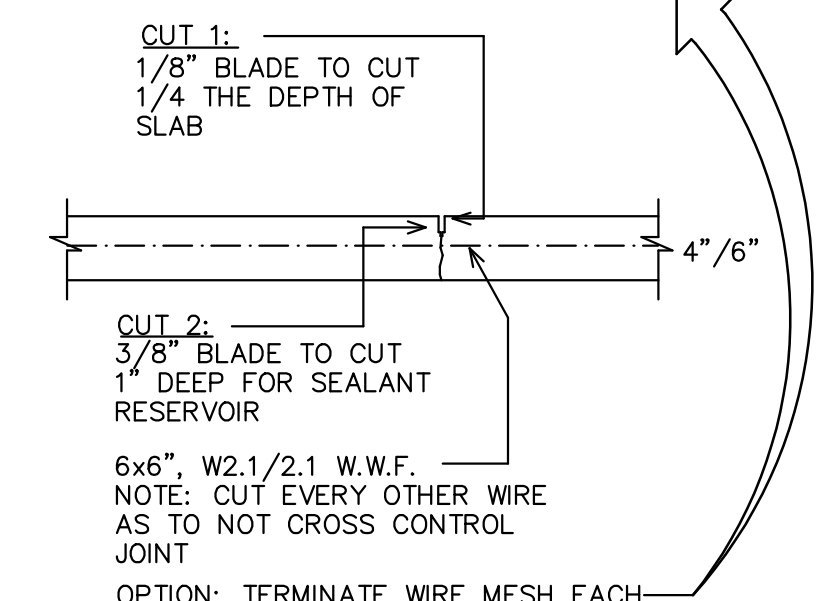
TYP. CONTROL JOINT

PLAN VIEW



TYP. CONTROL JOINT (OPTION)

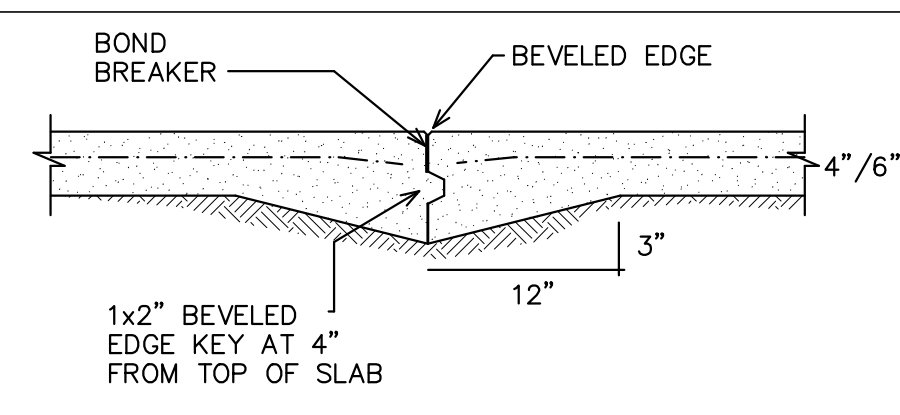
PLAN VIEW



TYP. CONTROL JOINT

SECTION VIEW

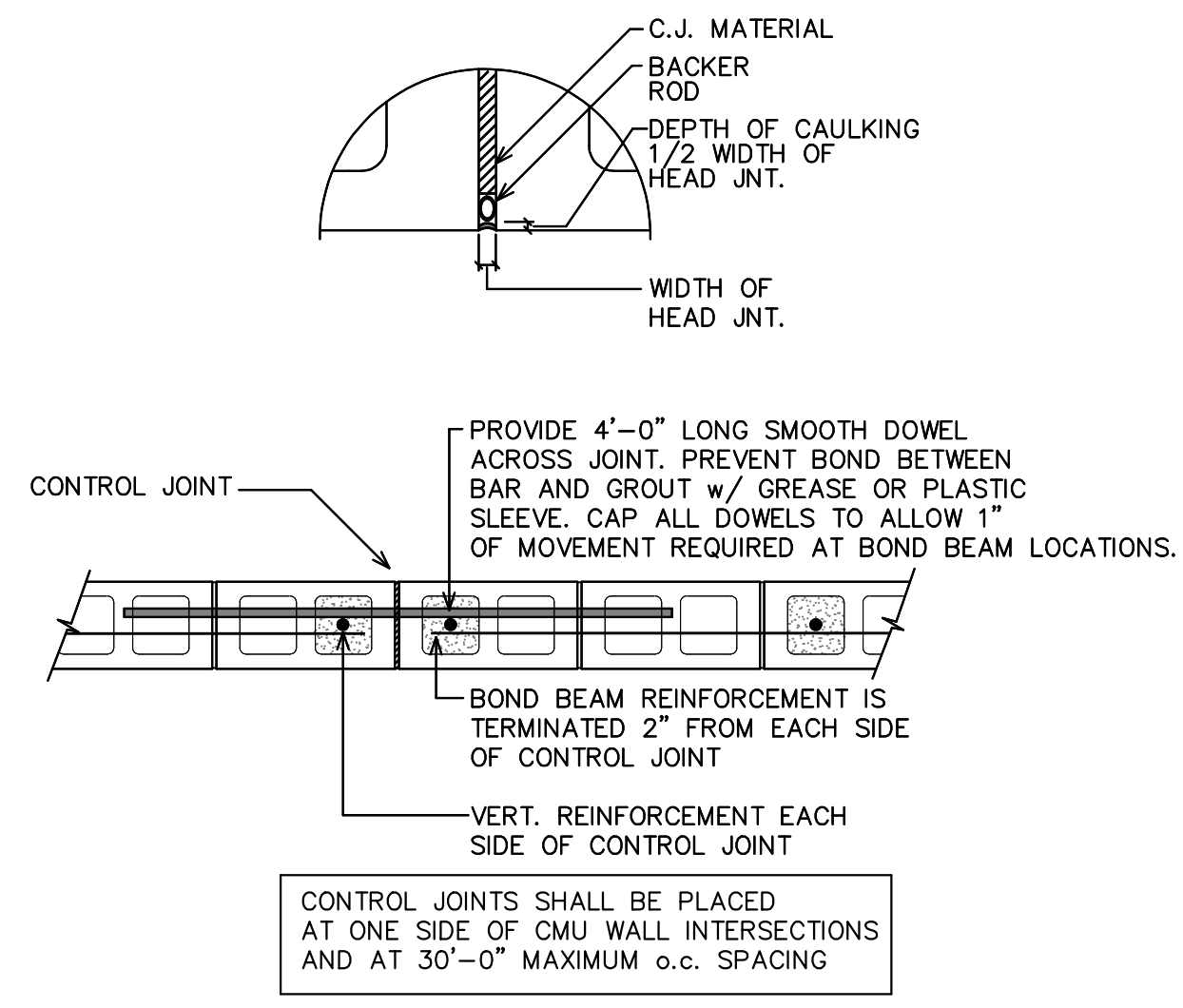
3/4" = 1'-0"



TYP. CONSTRUCTION JOINT

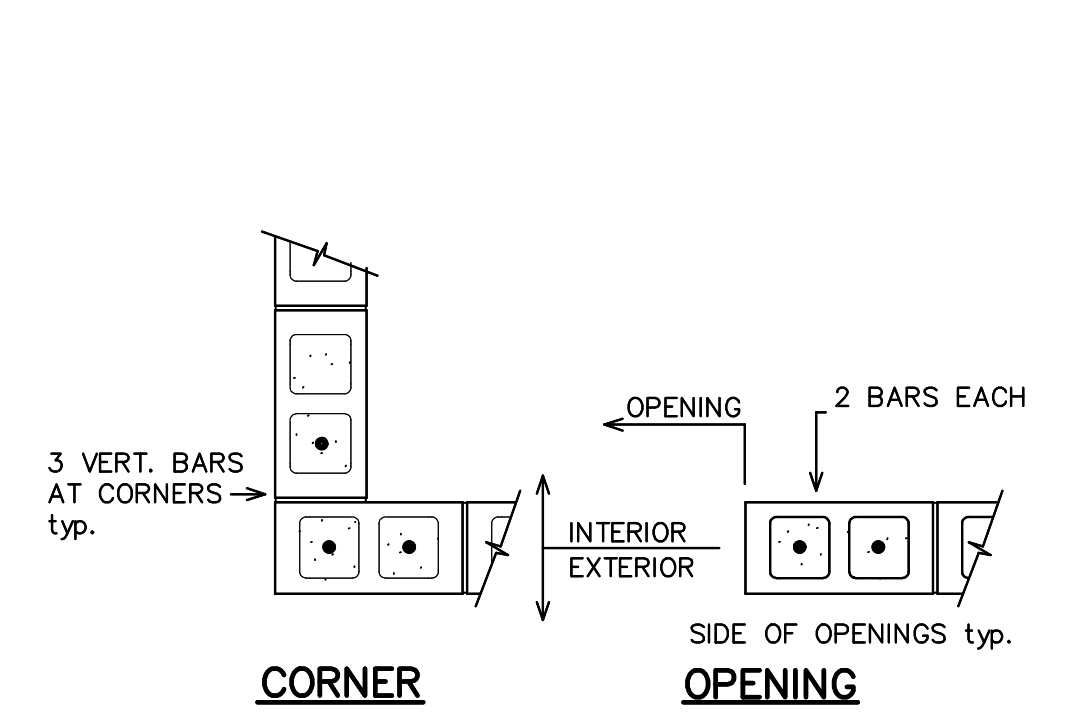
SECTION VIEW

3/4" = 1'-0"



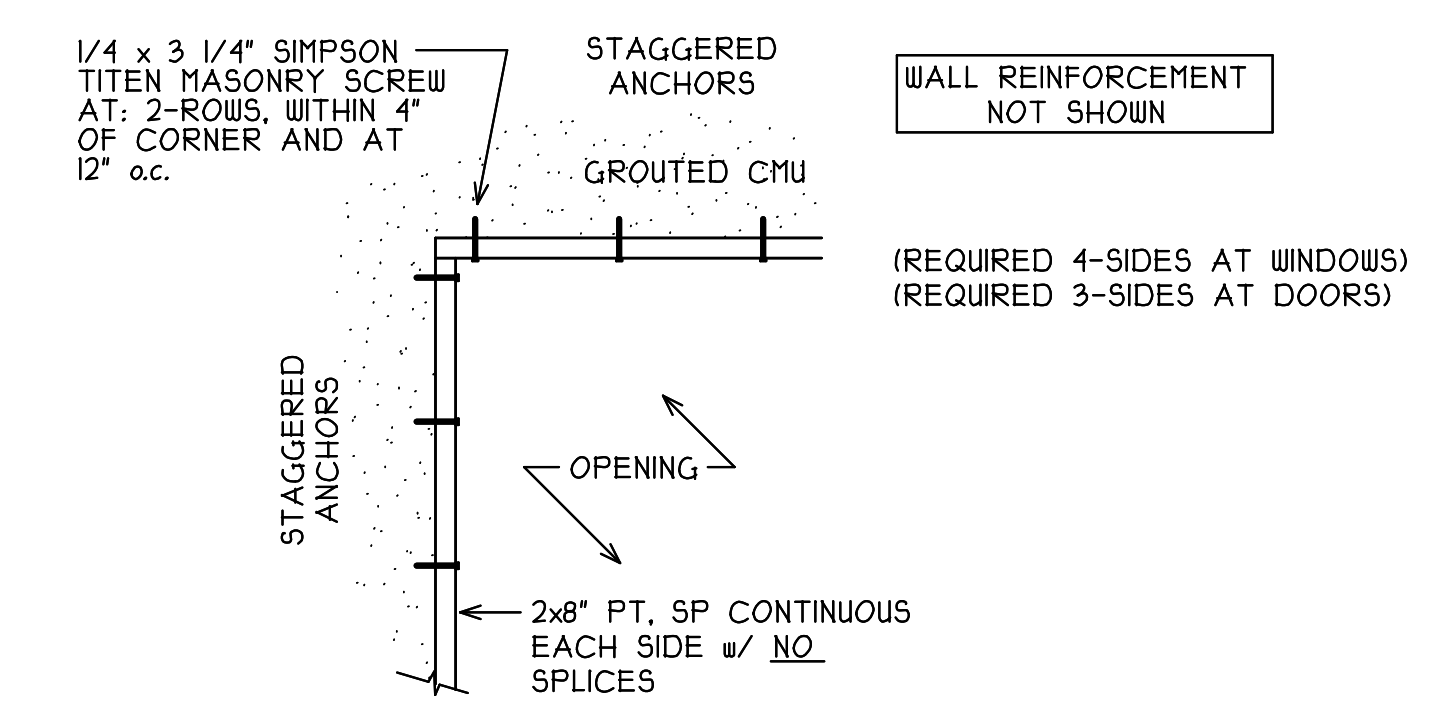
WALL REINFORCING AT CONTROL JOINT

3/4" = 1'-0"



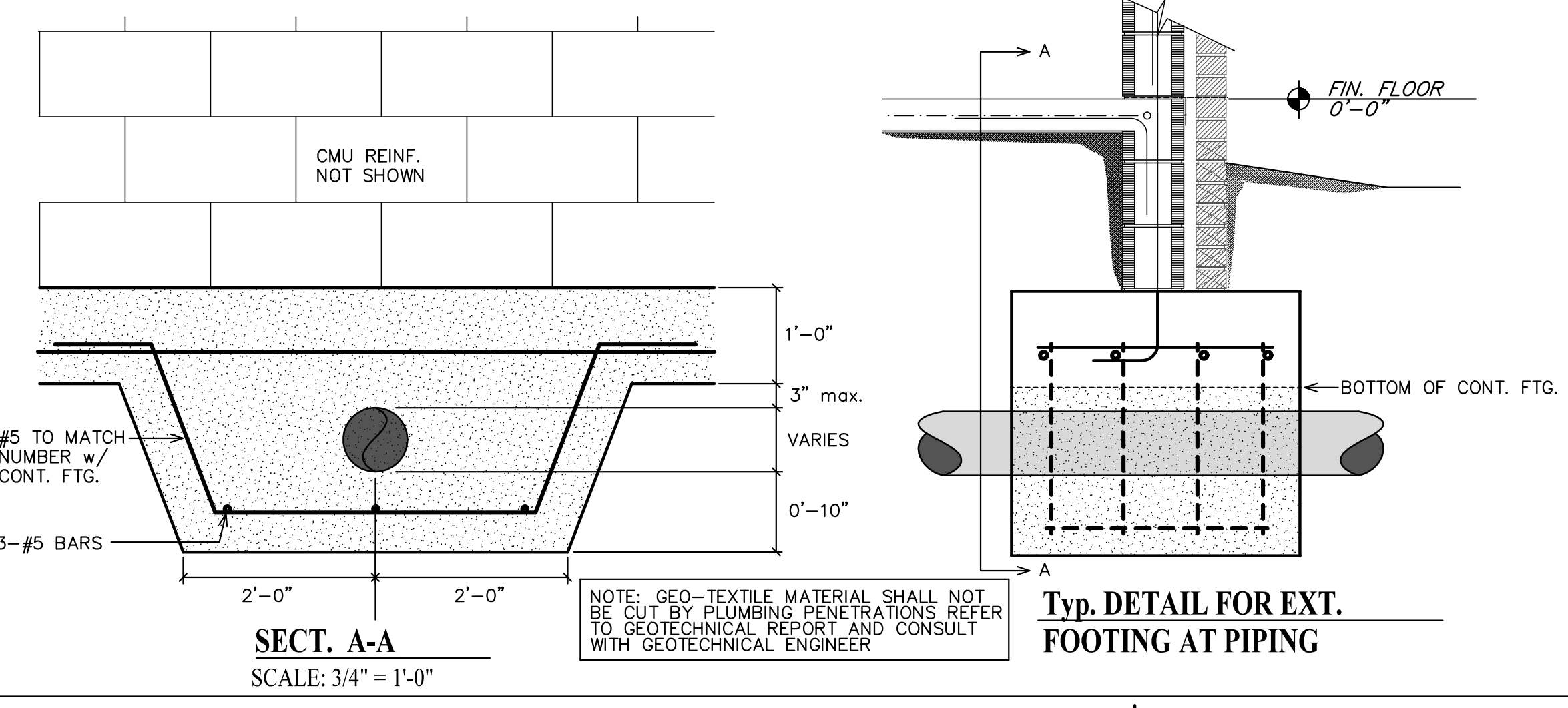
TYP. CMU REINFORCEMENT DETAILS

3/4" = 1'-0"



BUCK ANCHORAGE DETAIL

N.T.S.

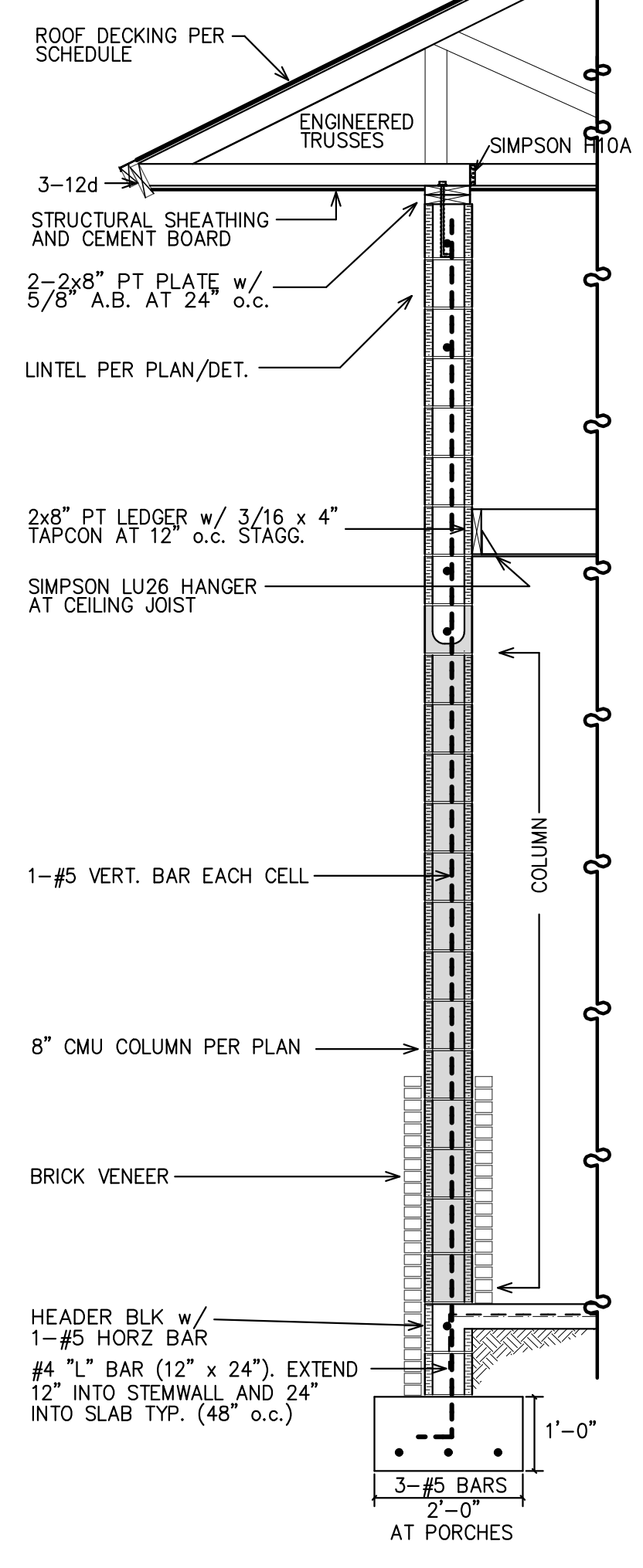


SECT. A-A

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

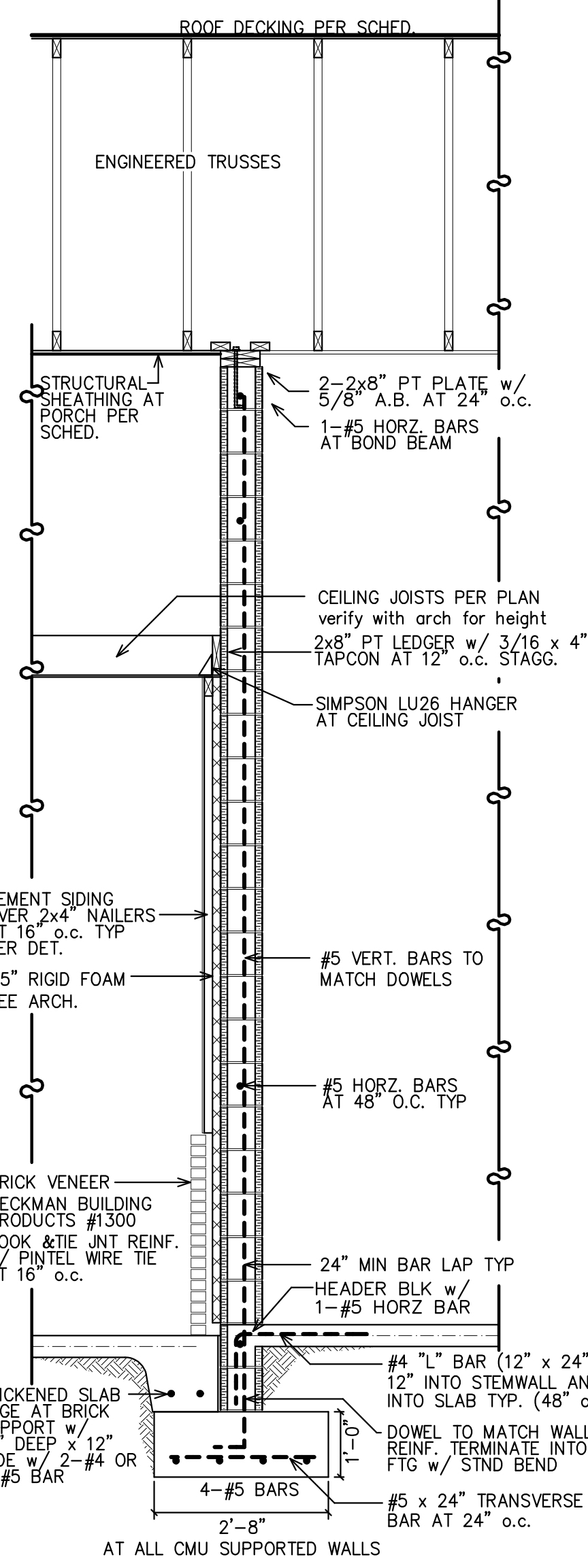
TYP. DETAIL FOR EXT. FOOTING AT PIPING

ENGINEERED TRUSS SCHEDULE:
UP TO 625 LBS - SIMPSON H2.5A
UP TO 1100 LBS - (1) SIMPSON H10A
UP TO 2200 LBS - (2) SIMPSON H10A
SEE OTHER DETAILS FOR HEAVIER TRUSS GIRDERS



E SECTION THRU "PORCH/DAY ROOM"

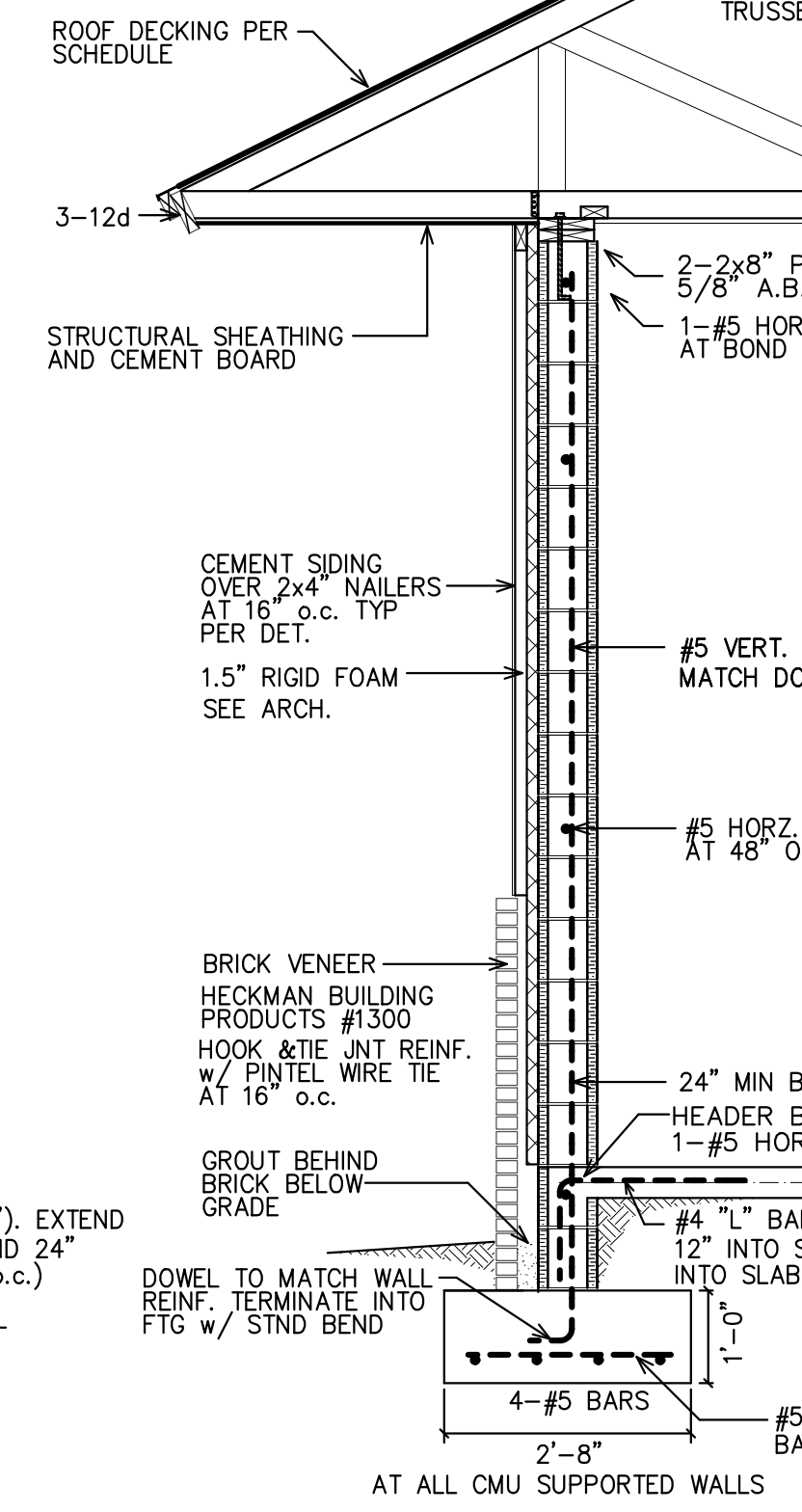
1/2" = 1'-0"



F SECTION THRU "DORM ROOM"

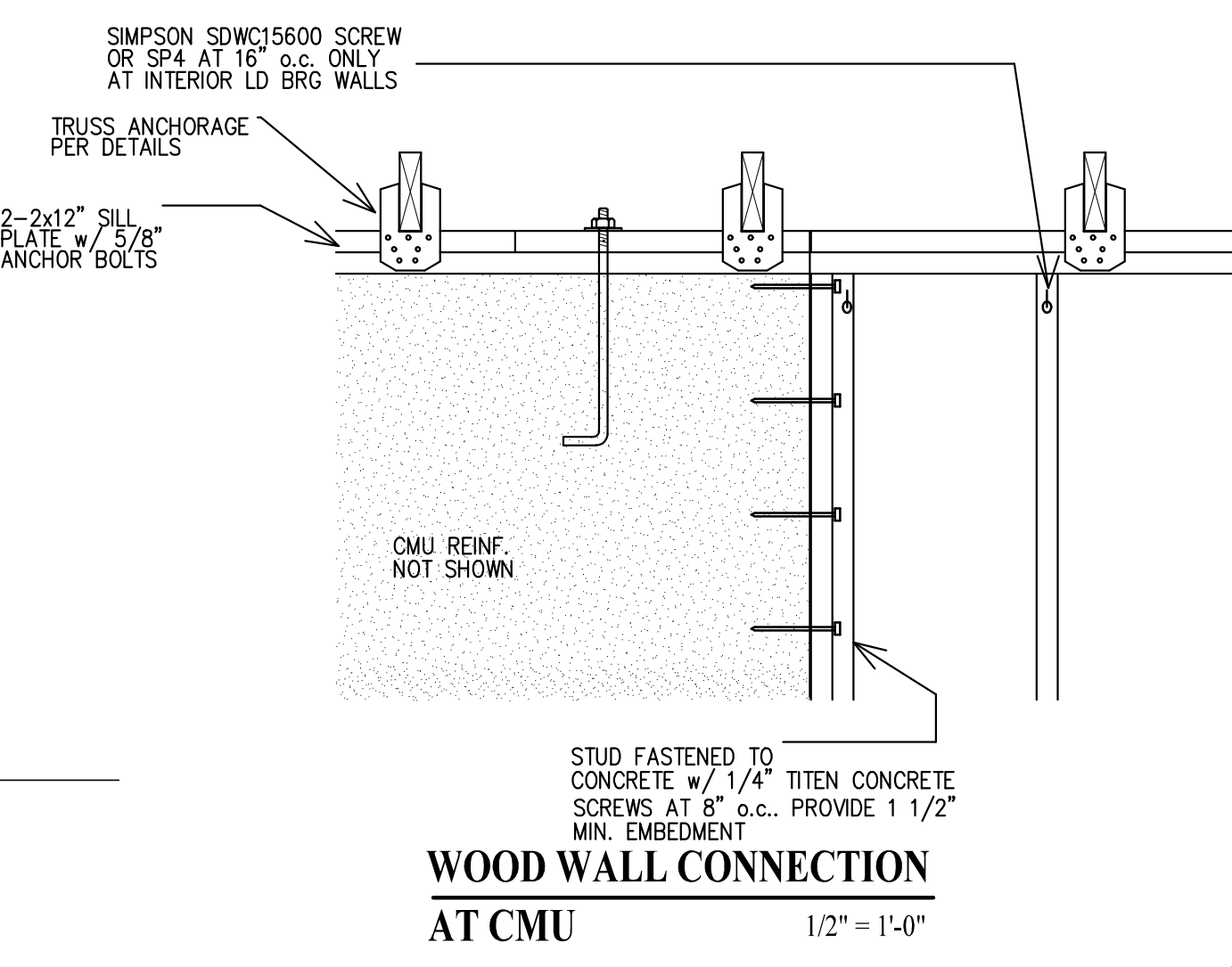
1/2" = 1'-0"

ENGINEERED TRUSS SCHEDULE:
UP TO 625 LBS - SIMPSON H2.5A
UP TO 1100 LBS - (1) SIMPSON H10A
UP TO 2200 LBS - (2) SIMPSON H10A
SEE OTHER DETAILS FOR HEAVIER TRUSS GIRDERS



G SECTION THRU "DORM/R. ROOM"

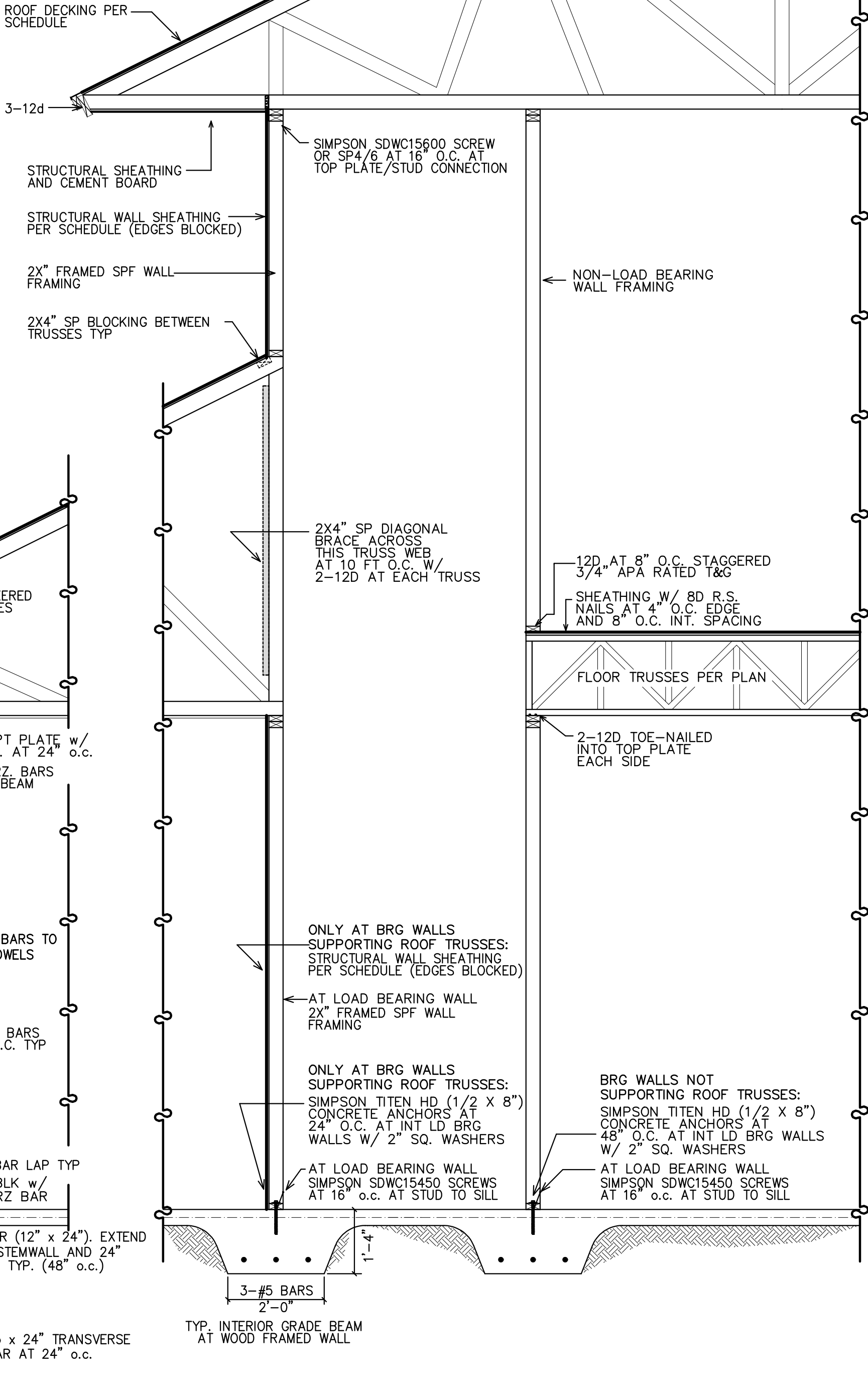
1/2" = 1'-0"



WOOD WALL CONNECTION AT CMU

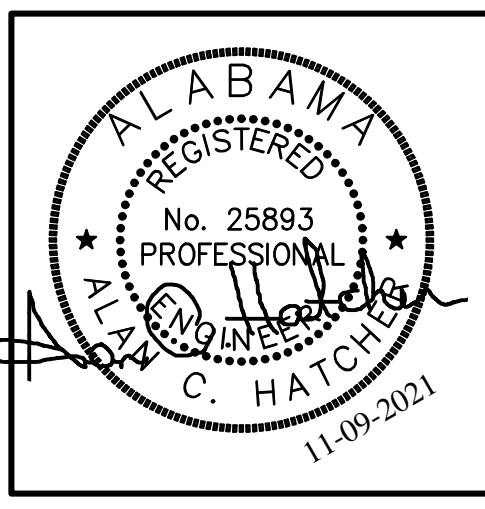
1/2" = 1'-0"

ENGINEERED TRUSS SCHEDULE:
UP TO 625 LBS - SIMPSON H2.5A
UP TO 1100 LBS - (1) SIMPSON H10A
UP TO 2200 LBS - (2) SIMPSON H10A
SEE OTHER DETAILS FOR HEAVIER TRUSS GIRDERS



H SECTION THRU "DORM/R. ROOM"

1/2" = 1'-0"



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AL. Cert. of Auth: 2453

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: ACH
CHECKED: ACH
DATE: 11-01-2021
REVISION:

SCALE: AS NOTED

SHEET NO.:

S4.0

SECT. DETAILS



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5125 OAK GLEN DR
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ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

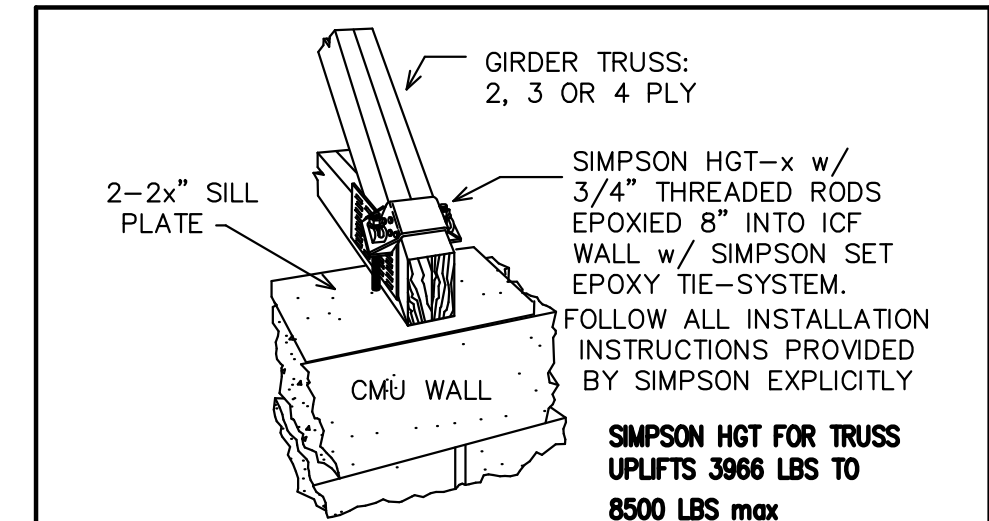
JOB NO.:
DRAWN: ACH
CHECKED: ACH
DATE: 11-01-2021
REVISION:

SCALE: AS NOTED

SHEET NO.:

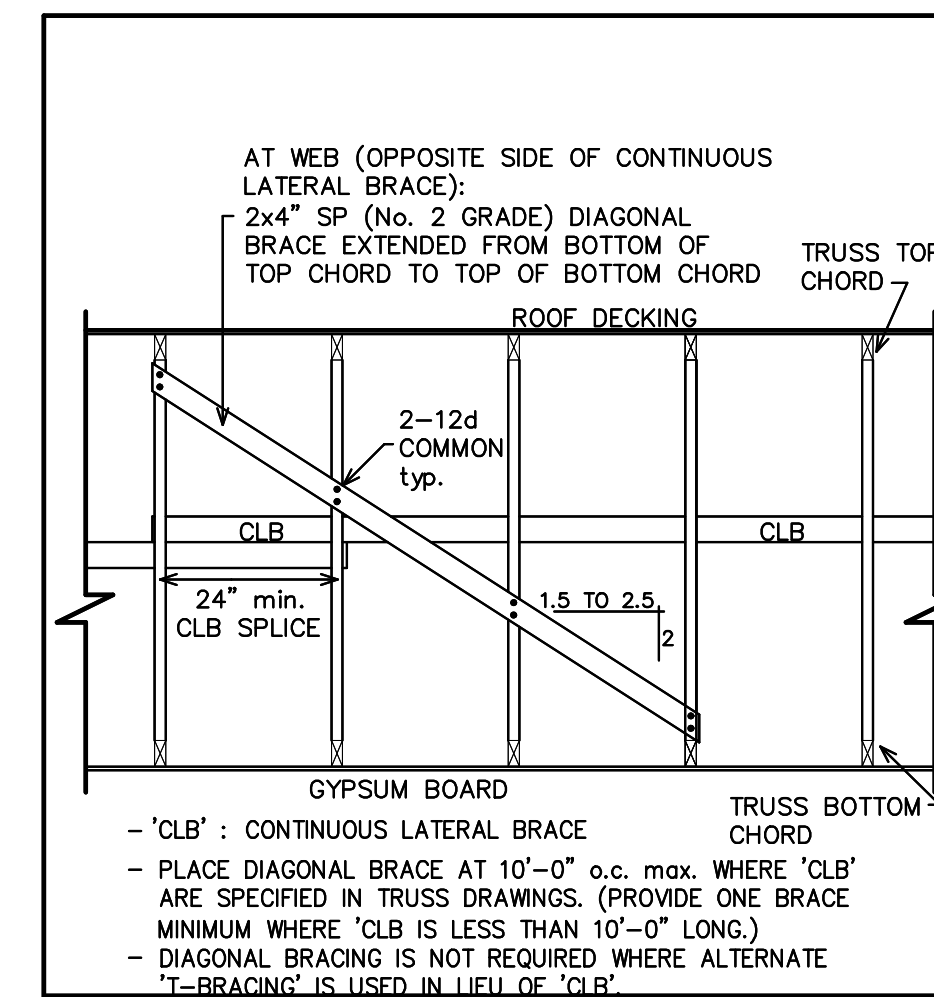
S5.0

DETAILS

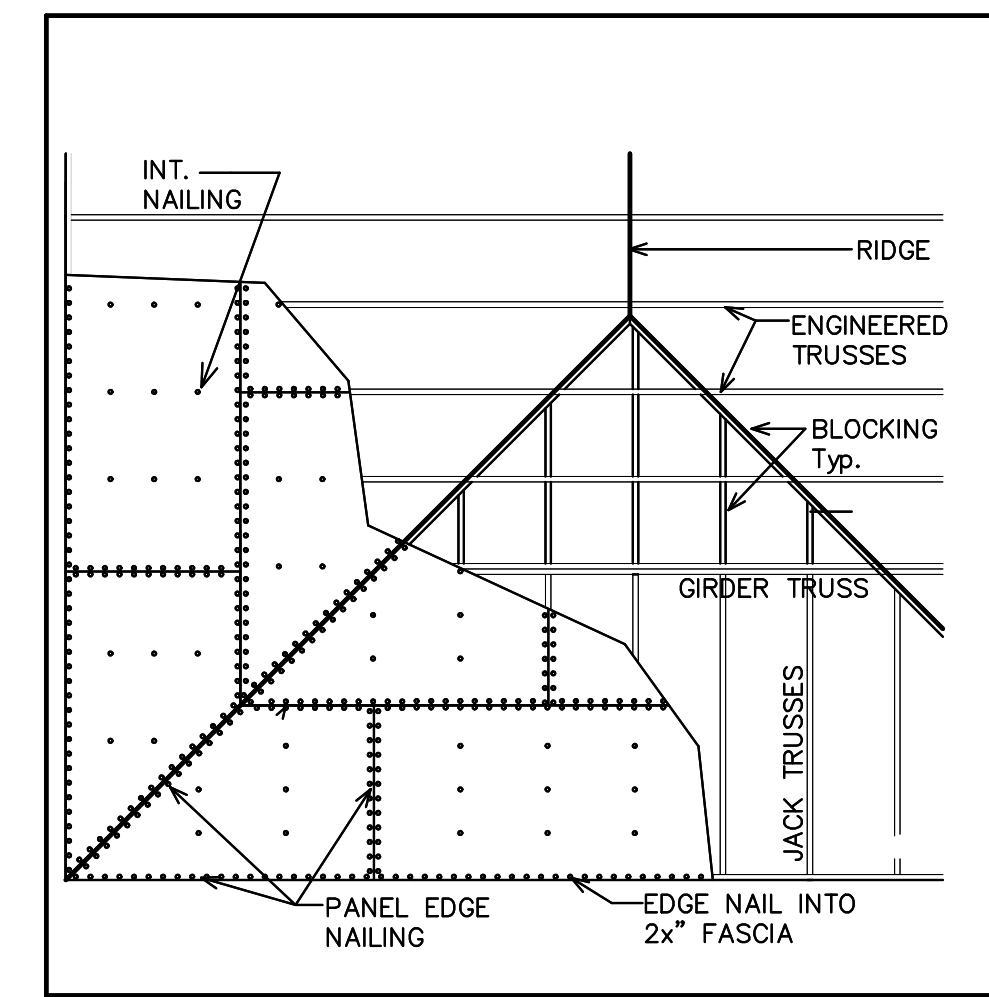


FOR UPLIFTS UP TO 3965 LBS; ANCHOR w/ SIMPSON MGT w/ 10-10d NAILS IN GIRDER AND (1)-5/8\"/>

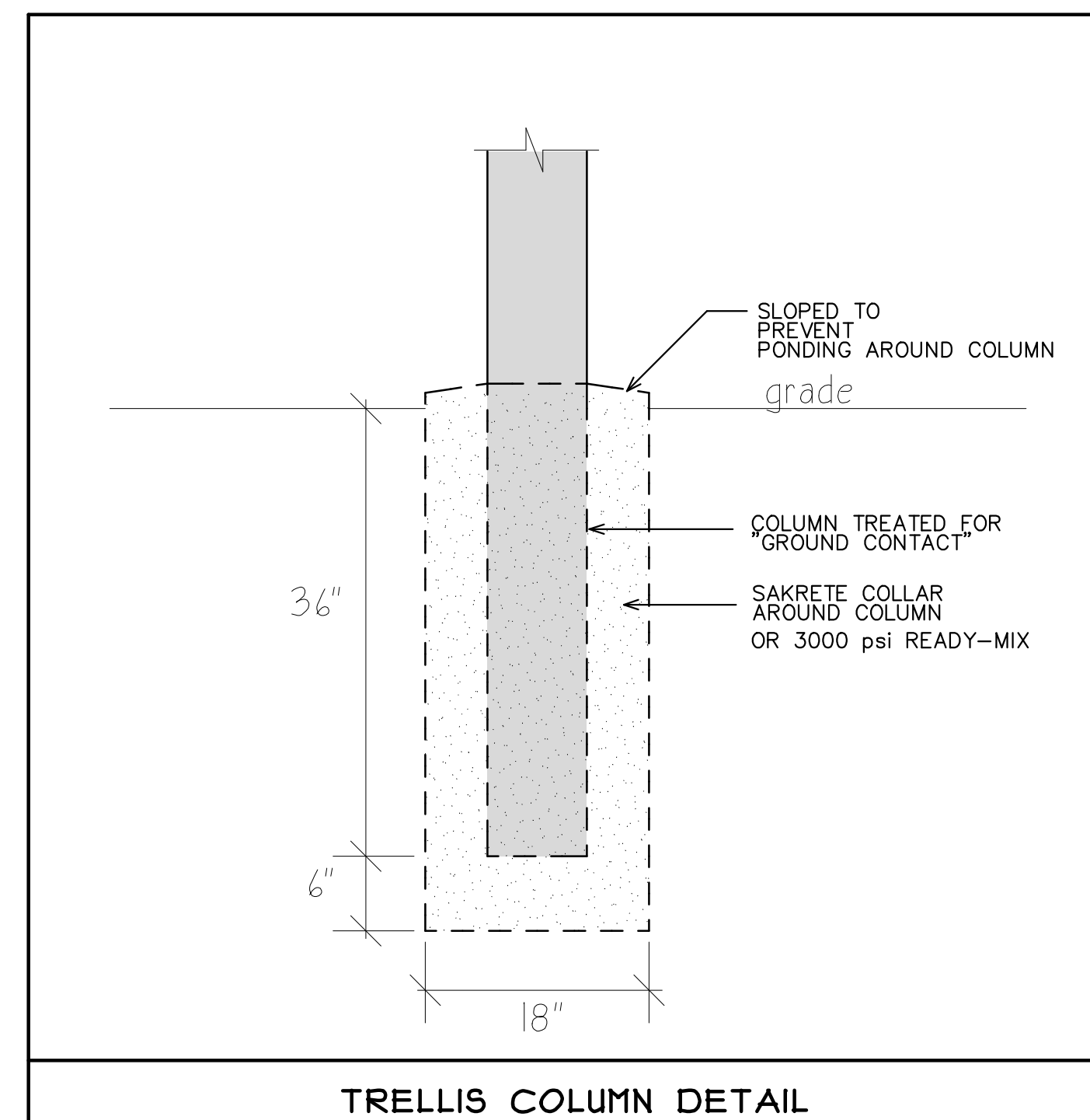
GIRDER TRUSS ANCHOR



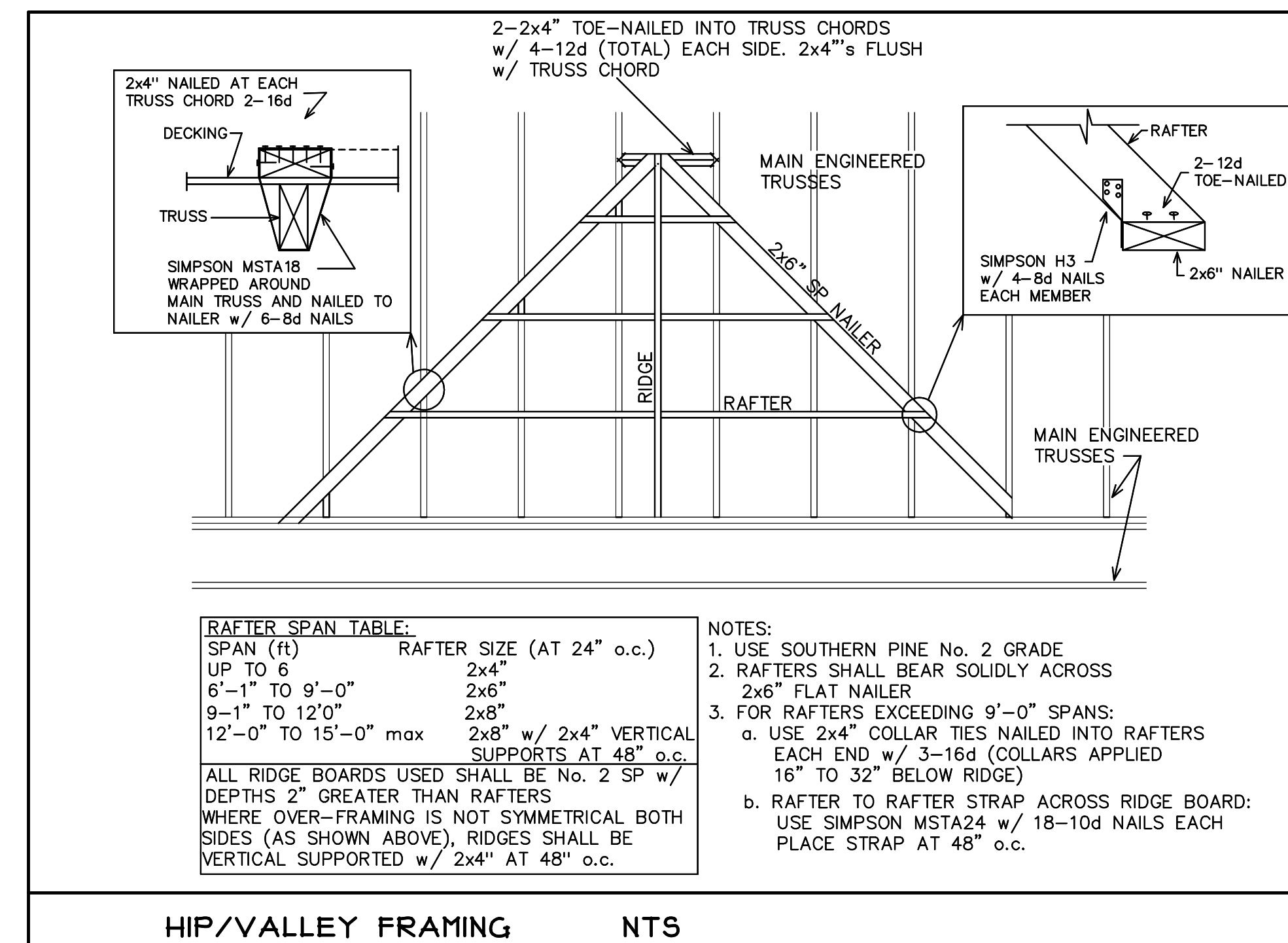
DIAGONAL TRUSS BRACING DETAIL NTS



ROOF PANEL BLOCKING NTS



TRELLIS COLUMN DETAIL



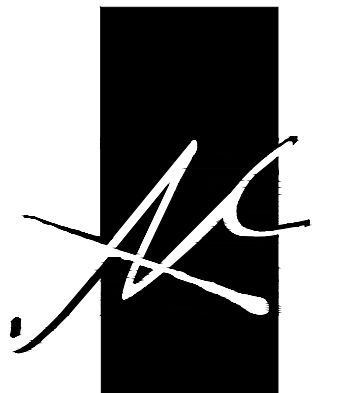
RAFTER SPAN TABLE:	
SPAN (ft)	RAFTER SIZE (AT 24" o.c.)
UP TO 6	2x4"
6'-1" TO 9'-0"	2x6"
9'-1" TO 12'-0"	2x8"
12'-0" TO 15'-0" max	2x8" w/ 2x4" VERTICAL SUPPORTS AT 48" o.c.

ALL RIDGE BOARDS USED SHALL BE No. 2 SP w/ DEPTHS 2" GREATER THAN RAFTERS WHERE OVER-FRAMING IS NOT SYMMETRICAL BOTH SIDES (AS SHOWN ABOVE), RIDGES SHALL BE VERTICAL SUPPORTED w/ 2x4" AT 48" o.c.

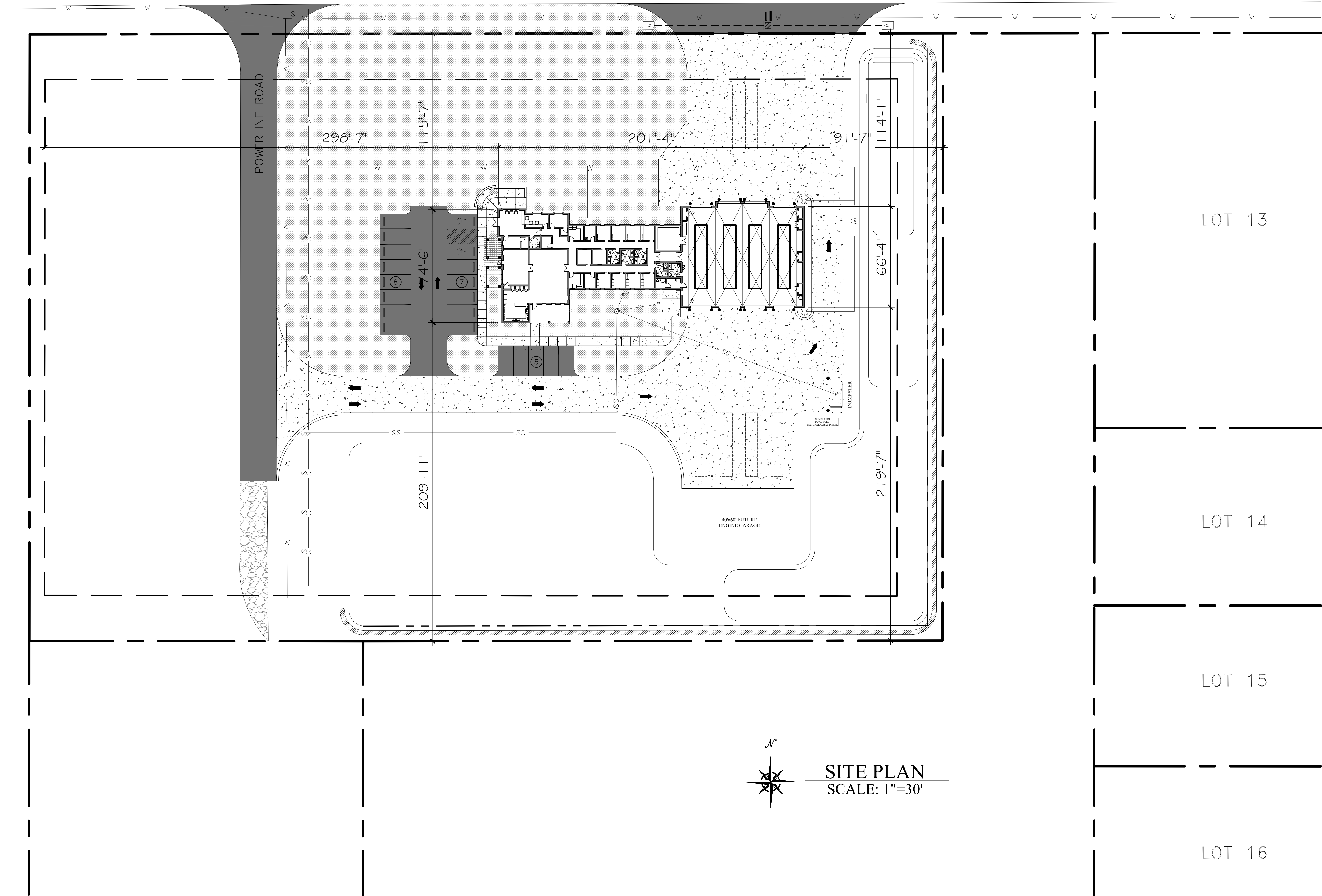
- NOTES:
- USE SOUTHERN PINE No. 2 GRADE
 - RAFTERS SHALL BEAR SOLIDLY ACROSS 2x6" FLAT NAILER
 - FOR RAFTERS EXCEEDING 9'-0" SPANS:
 - USE 2x4" COLLAR TIES NAILED INTO RAFTERS EACH END w/ 3-16d COLLARS APPLIED 16" TO 32" BELOW RIDGE
 - RAFTER TO RAFTER STRAP ACROSS RIDGE BOARD: USE SIMPSON MSTA24 w/ 18-10d NAILS EACH PLACE STRAP AT 48" o.c.

HIP/VALLEY FRAMING NTS

ALABAMA HIGHWAY 180 (CANAL ROAD) (R.O.W. VARIES)



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ARCHITECTURE, INC.
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GULF SHORES, ALABAMA
36547-6310
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SITE PLAN
SCALE: 1"=30'

LOT 13

LOT 14

LOT 15

LOT 16

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

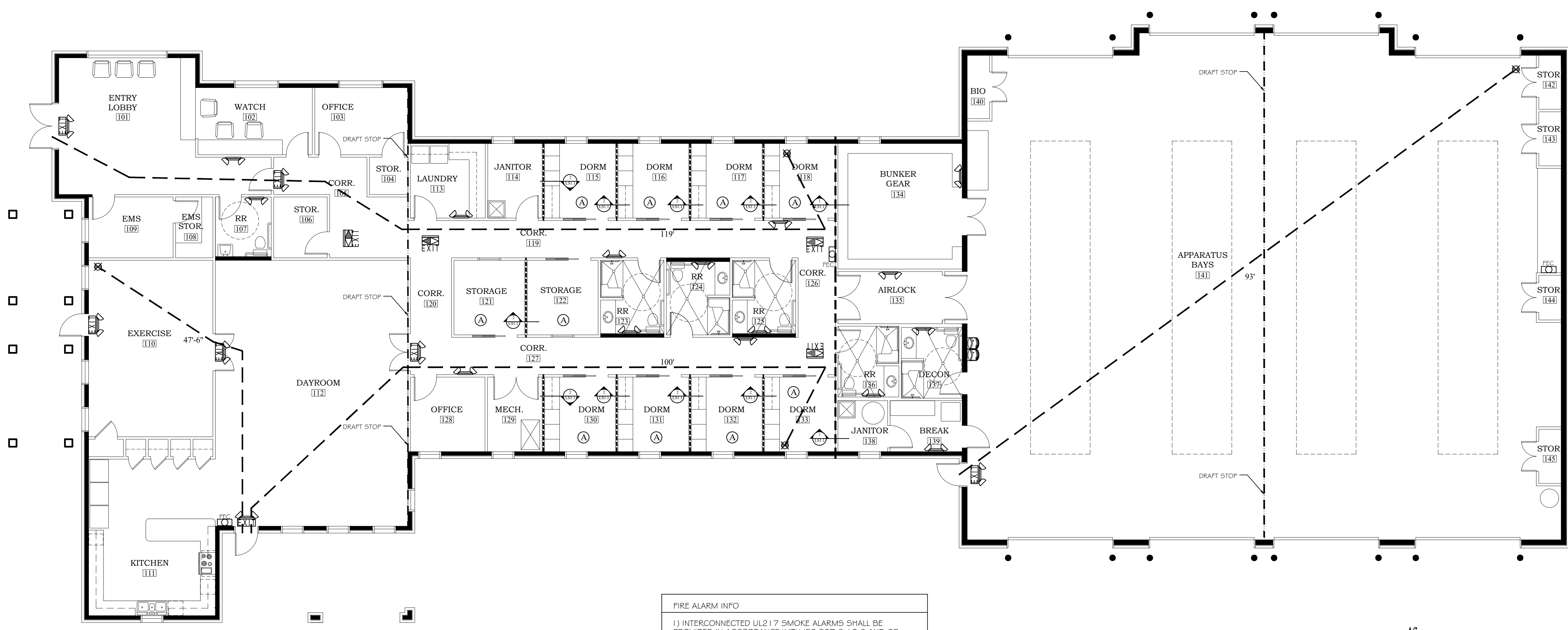
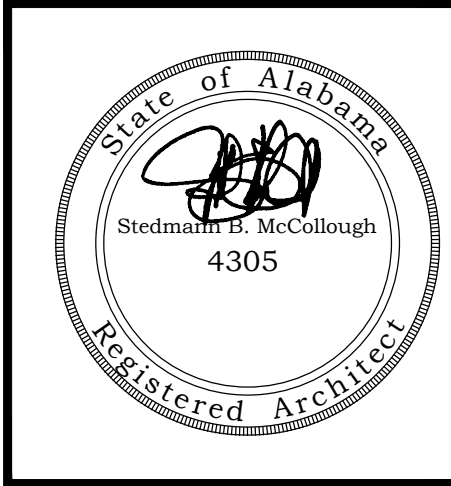
JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

SCALE: 1" = 30'

SHEET NO.:

C1.1

SITE PLAN



FIRE ALARM INFO

1) INTERCONNECTED UL217 SMOKE ALARMS SHALL BE PROVIDED IN ACCORDANCE WITH IFC 907.2.10.2 AND CO ALARMS SHALL BE PROVIDED IN ACCORDANCE WITH IFC 915.1 & 915.2.2.

2) SPRINKLER MONITORING FIRE ALARM SYSTEM IS REQUIRED PER IFC 903.4

LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

<p>1 WALL TYPE</p> <p>WALL TYPE 1HR, UL# U305</p>	<p>2 WALL TYPE</p> <p>WALL TYPE 3/4HR, UL# U305</p>	<p>DRAFT STOP DETAIL</p>	<p>LEGEND</p> <p>47' - DISTANCE IN FEET EXIT TRAVEL DISTANCE</p> <p>EXIT - EXIT SIGN WITH EMERGENCY LIGHTING</p> <p>HATCH - HATCH INDICATES DIRECTION EXIT SIGN</p> <p>FFC - EMERGENCY LIGHTS</p> <p>○ - FIRE EXTINGUISHER</p> <p>----- 1 HR. WALL, UL# U305 UP TO CEILING</p> <p>----- 1 HR. WALL, UL# U305 UP TO DECK</p> <p>----- DRAFT STOP: PROVIDE 1/2" GYP ONE SIDE OF TRUSS, TAPED AND FLOATED WITH BLOCKING AS REQUIRED. PROVIDE FOR A 3X4 PLYWOOD DOOR WITH SELF-CLOSING HINGES FOR SECURE CLOSURE.</p>	<p>BUILDING CODE SUMMARY</p> <table border="0"> <tr> <td>-2018 INTERNATIONAL BUILDING CODE</td> <td>-2018 INTERNATIONAL FIRE CODE</td> </tr> <tr> <td>-2018 INTERNATIONAL PLUMBING CODE</td> <td>-2018 INTERNATIONAL EXISTING BUILDING CODE</td> </tr> <tr> <td>-2018 INTERNATIONAL MECHANICAL CODE</td> <td>-2017 NATIONAL ELECTRIC CODE</td> </tr> <tr> <td>-2017 ICC A117.1</td> <td></td> </tr> </table> <p>PROJECT DATA</p> <table border="0"> <tr> <td>-CONSTRUCTION TYPE:</td> <td>VB, SPRINKLERED</td> </tr> <tr> <td>-OCCUPANCY</td> <td>SEPARATED AND NON SEPARATED MIXED USE B TO R-2 (NON SEPARATED), R-2 TO S-2 (SEPARATED)</td> </tr> <tr> <td>-STORIES/SQUARE FOOTAGE ALLOWED (BUSINESS VB TABLES 504.4, 506.2)</td> <td>3/36,000 S.F.</td> </tr> <tr> <td>-STORIES/SQUARE FOOTAGE ACTUAL</td> <td>1/11,784 S.F.</td> </tr> <tr> <td>-OCCUPANT LOAD</td> <td>52 PEOPLE</td> </tr> <tr> <td>-BUSINESS</td> <td>= 989/150 = 7 PEOPLE</td> </tr> <tr> <td>-R-2</td> <td>= 4,655/200 = 24 PEOPLE</td> </tr> <tr> <td>-S-2</td> <td>= 6,239/300 = 21 PEOPLE</td> </tr> <tr> <td></td> <td>52 PEOPLE</td> </tr> </table> <table border="0"> <tr> <td>-FIRE RATED WALLS</td> <td>1 HOUR: UL # U305</td> </tr> <tr> <td>-REQUIRED/PROVIDED NUMBER OF EXITS</td> <td>2/3</td> </tr> <tr> <td>-EXIT TRAVEL DISTANCE</td> <td><200'</td> </tr> <tr> <td>-PROVIDED FIRE EXTINGUISHER</td> <td>3</td> </tr> <tr> <td>-PROVIDED TOILETS/LAVATORIES/WATER COOLER</td> <td>6/6/1</td> </tr> <tr> <td>NOTE</td> <td></td> </tr> </table>	-2018 INTERNATIONAL BUILDING CODE	-2018 INTERNATIONAL FIRE CODE	-2018 INTERNATIONAL PLUMBING CODE	-2018 INTERNATIONAL EXISTING BUILDING CODE	-2018 INTERNATIONAL MECHANICAL CODE	-2017 NATIONAL ELECTRIC CODE	-2017 ICC A117.1		-CONSTRUCTION TYPE:	VB, SPRINKLERED	-OCCUPANCY	SEPARATED AND NON SEPARATED MIXED USE B TO R-2 (NON SEPARATED), R-2 TO S-2 (SEPARATED)	-STORIES/SQUARE FOOTAGE ALLOWED (BUSINESS VB TABLES 504.4, 506.2)	3/36,000 S.F.	-STORIES/SQUARE FOOTAGE ACTUAL	1/11,784 S.F.	-OCCUPANT LOAD	52 PEOPLE	-BUSINESS	= 989/150 = 7 PEOPLE	-R-2	= 4,655/200 = 24 PEOPLE	-S-2	= 6,239/300 = 21 PEOPLE		52 PEOPLE	-FIRE RATED WALLS	1 HOUR: UL # U305	-REQUIRED/PROVIDED NUMBER OF EXITS	2/3	-EXIT TRAVEL DISTANCE	<200'	-PROVIDED FIRE EXTINGUISHER	3	-PROVIDED TOILETS/LAVATORIES/WATER COOLER	6/6/1	NOTE	
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NOTE																																										
<p>A CEILING TYPE</p> <p>40 MIN. RATED CEILING - (1) LAYER TYPE "X" 5/8" GYPSUM BOARD, PER TABLE 722.6.2 (1) OF 2018 IBC</p> <p>CEILING TYPE 40 MIN.</p>																																										

JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

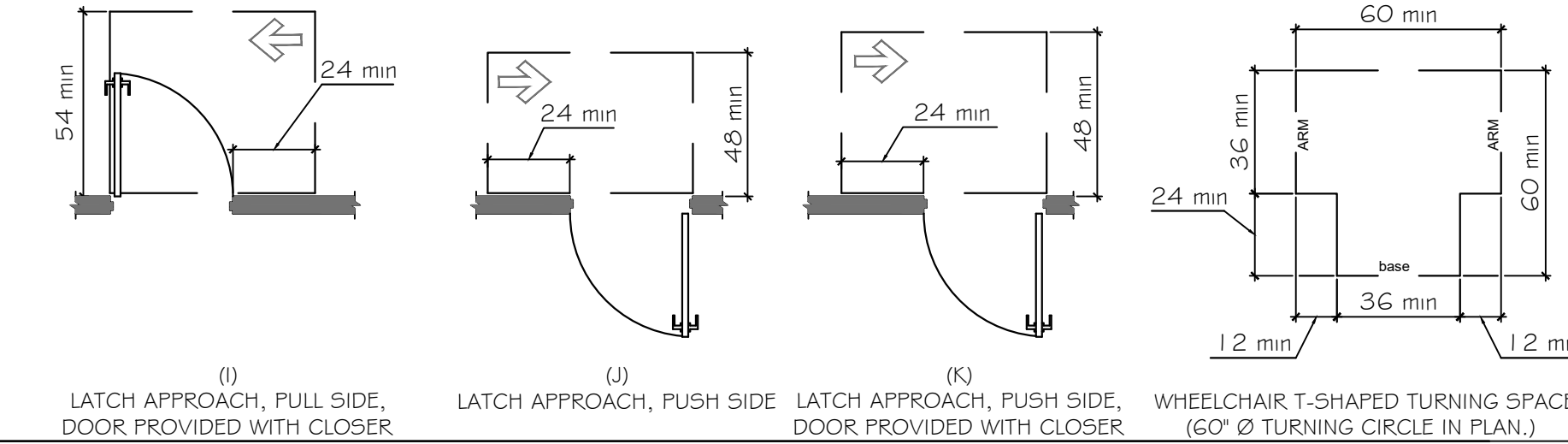
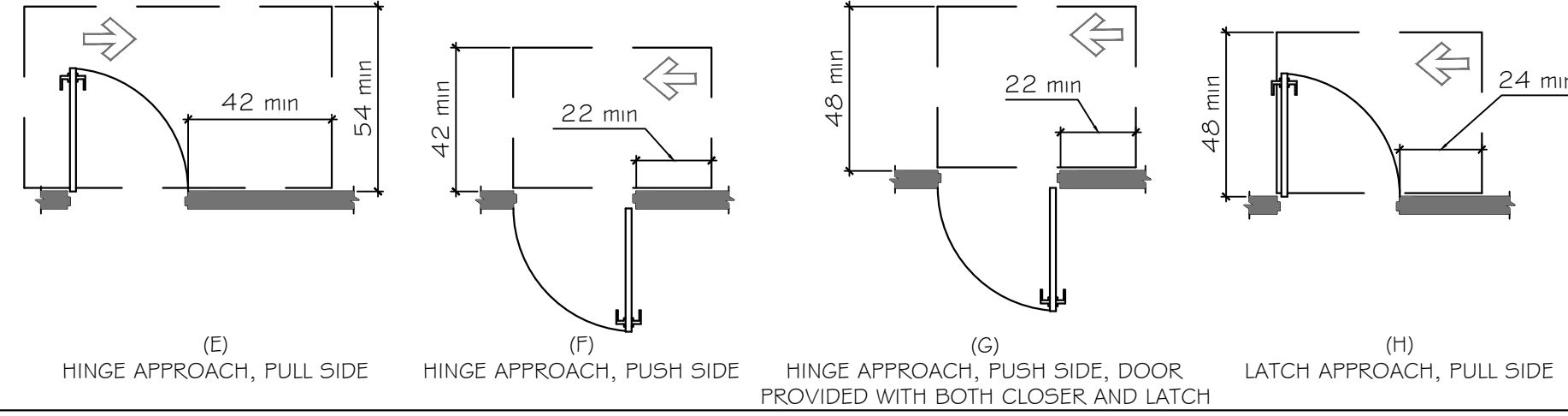
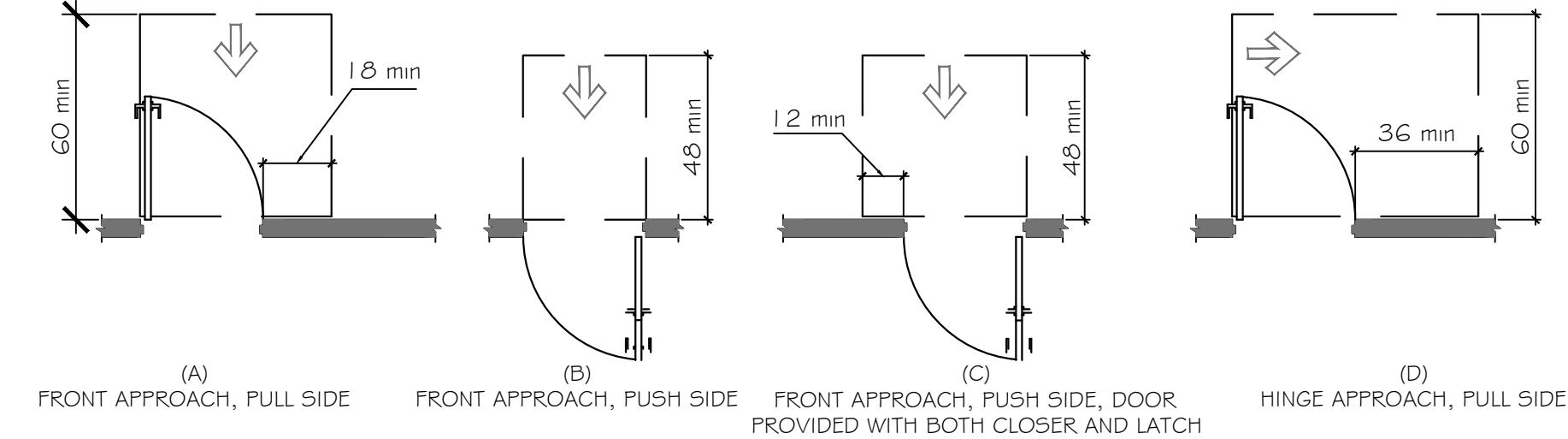
SHEET NO.:
LS1.1
LIFE SAFETY PLAN

ACCESSIBLE NOTES:

1/A1.0 ADA COMPLIANCE DOOR SWINGS AND CLEARANCES

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5# MAXIMUM.

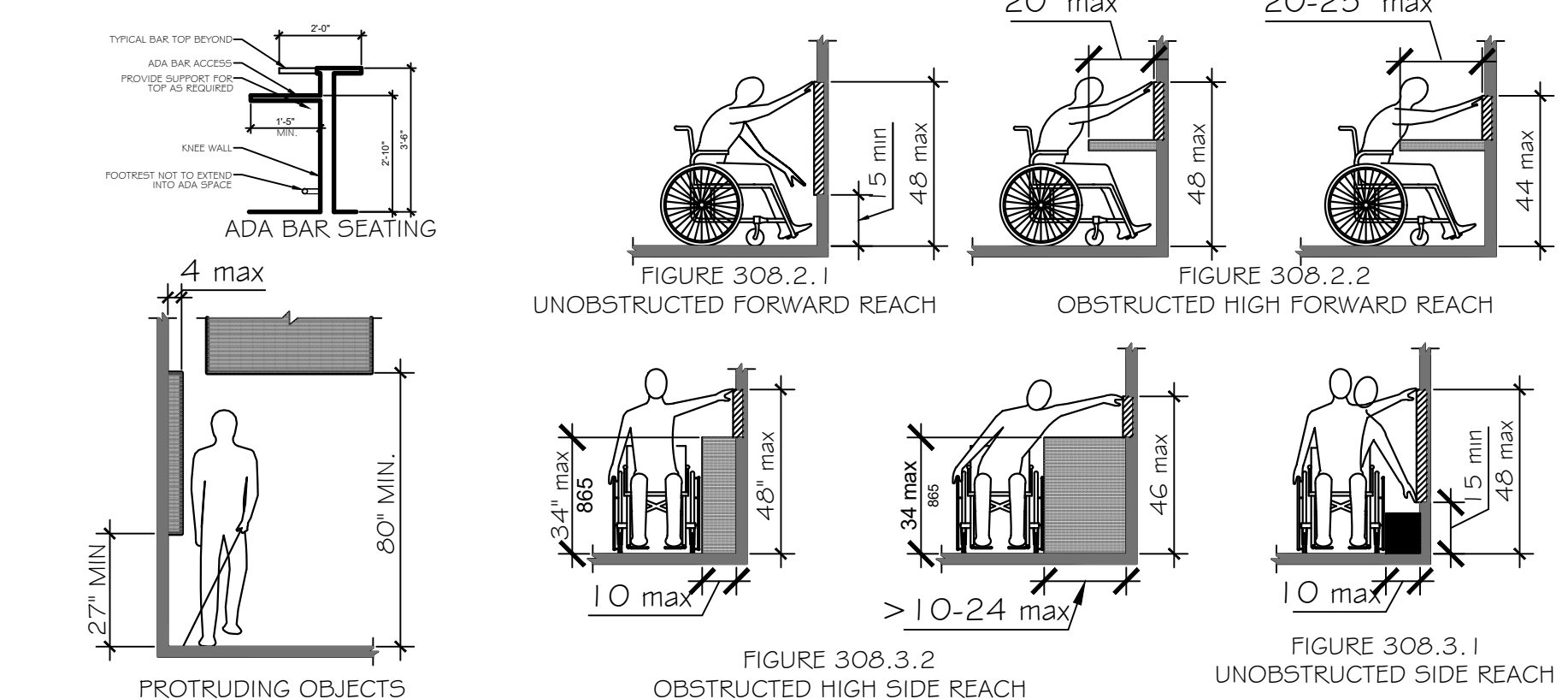
SEC. 404 : 2010 ADA STANDARDS



2/A1.0 REACH / PROTRUDING OBJECTS

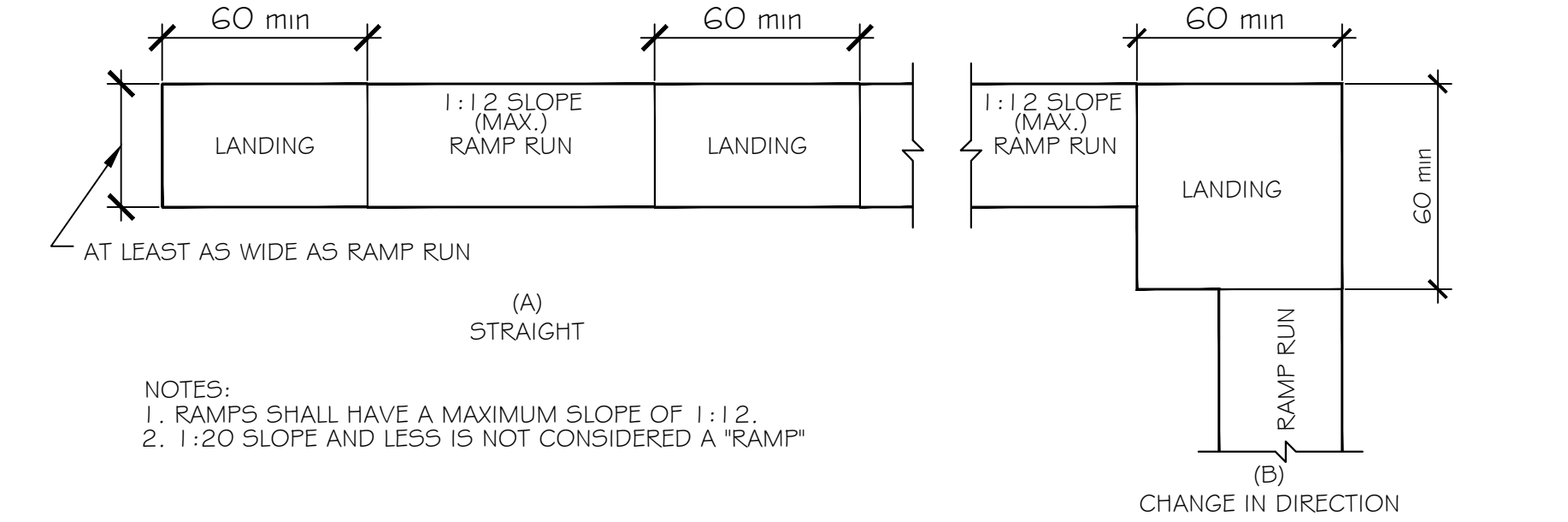
THE FOLLOWING DIAGRAMS SHALL BE TYPICAL FOR ALL ADA COMPLIANT CONDITIONS FOR MOUNTED OBJECTS: (INCLUDING BUT NOT LIMITED TO HAND DRYERS; SOAP DISPENSERS; AND PAPER TOWEL DISPENSERS)

SEC. 308 : 2010 ADA STANDARDS



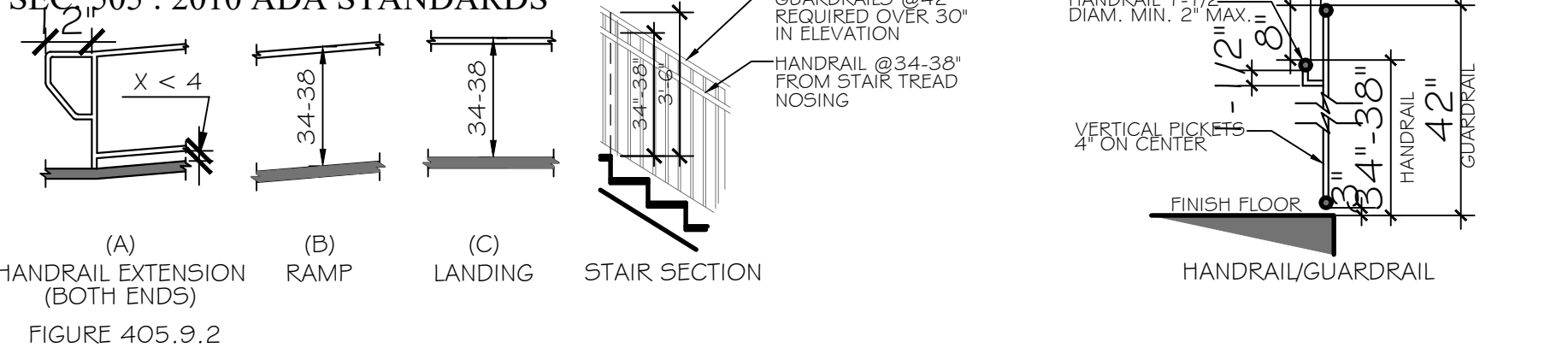
3/A1.0 ADA COMPLIANT RAMPS

SEC. 405.7 : 2010 ADA STANDARDS



4/A1.0 RAILINGS

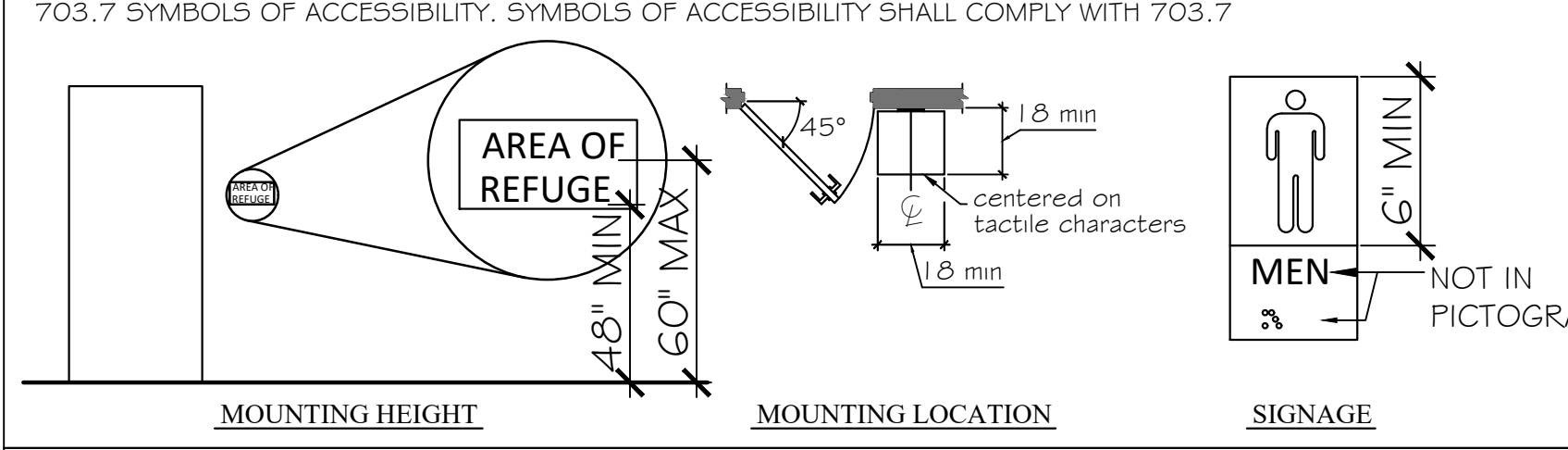
SEC. 505 : 2010 ADA STANDARDS



5/A1.0 COMMUNICATION ELEMENTS AND FEATURES

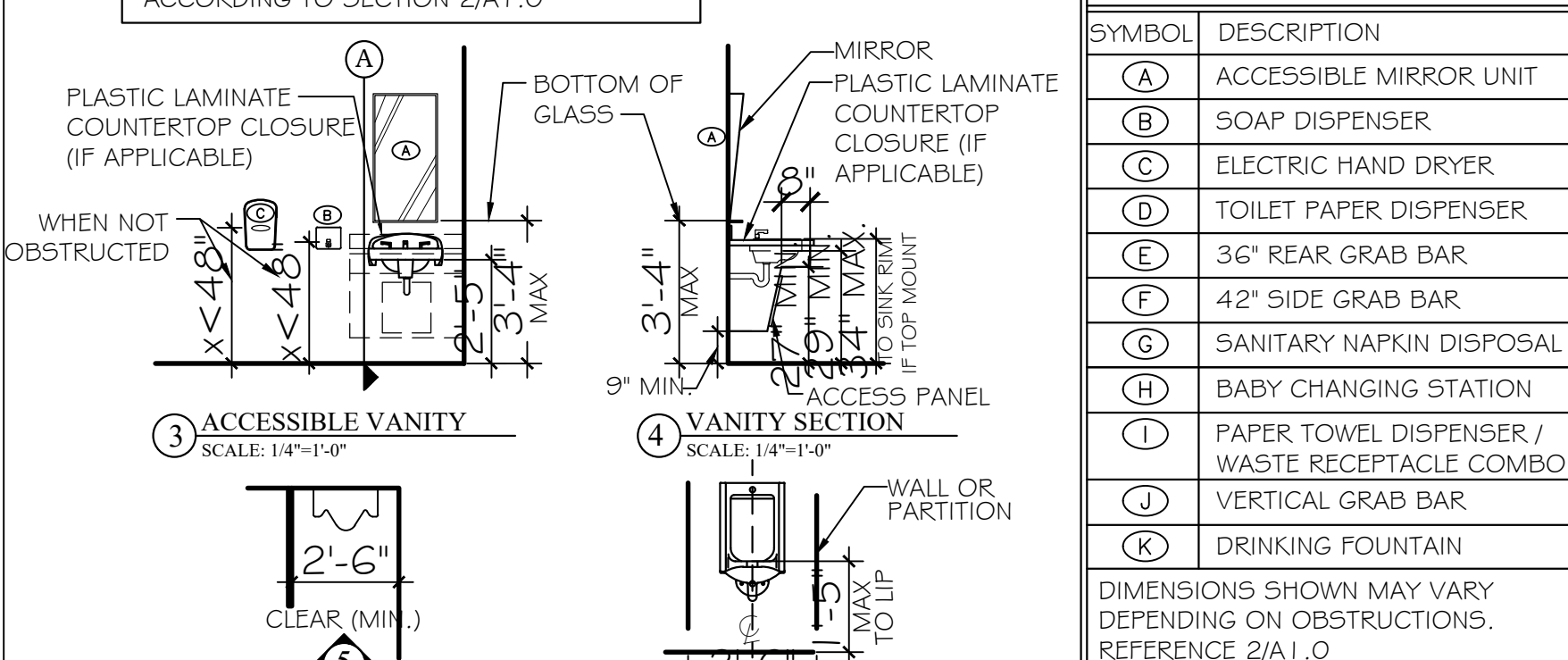
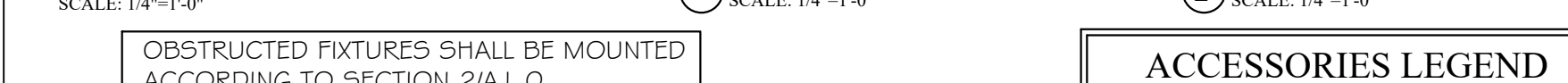
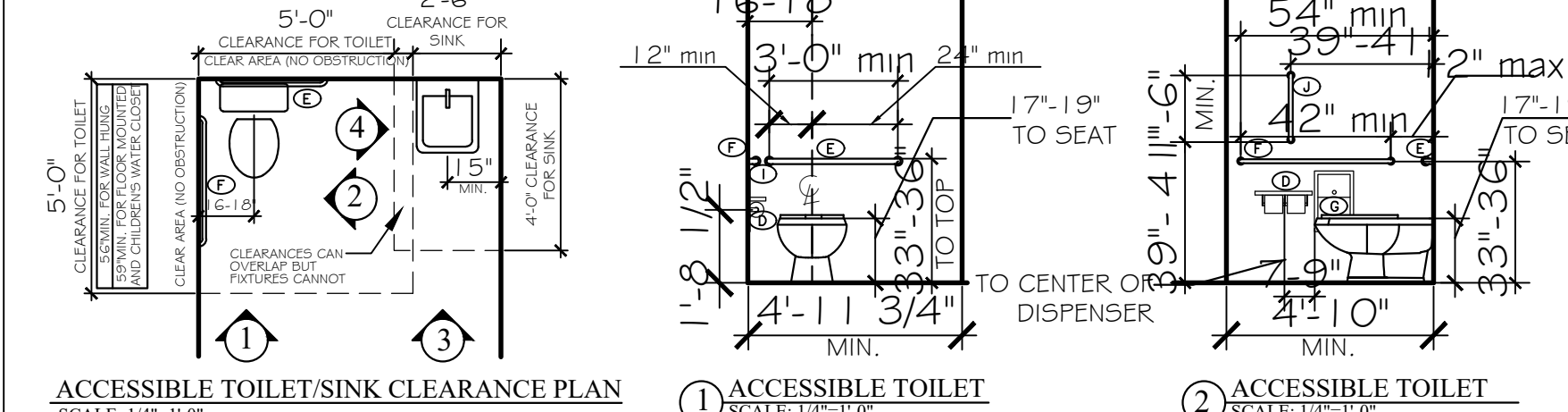
SEC. 703 : 2010 ADA STANDARDS

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.



6/A1.0 ADA ACCESSIBLE BATHROOM FIXTURES/ACCESSORIES

SEC. 604 : 2010 ADA STANDARDS



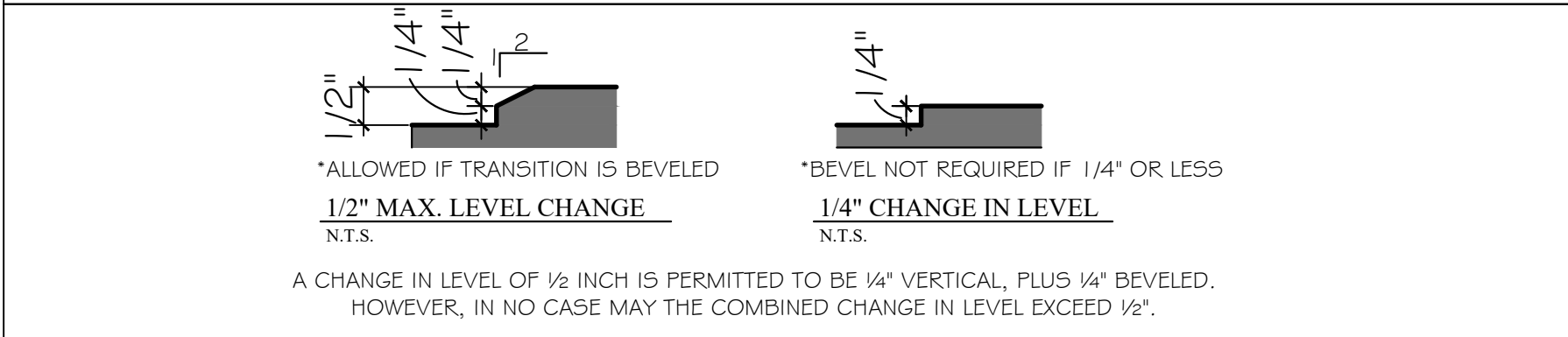
ACCESSORIES LEGEND

Table with 2 columns: SYMBOL and DESCRIPTION. Lists items like accessible mirror unit, soap dispenser, electric hand dryer, toilet paper dispenser, 36" rear grab bar, 42" side grab bar, sanitary napkin disposal, baby changing station, paper towel dispenser, vertical grab bar, and drinking fountain.

ADA TOILET COMPARTMENTS

DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA. TOILET COMPARTMENT DOORS SHALL HAVE ADA DOOR PULLS ON EACH SIDE. DOORS SHALL BE SELF CLOSING.

7/A1.0 THRESHOLD CONDITIONS SEC. 303 : 2010 ADA STANDARDS



ABBREVIATION LEGEND

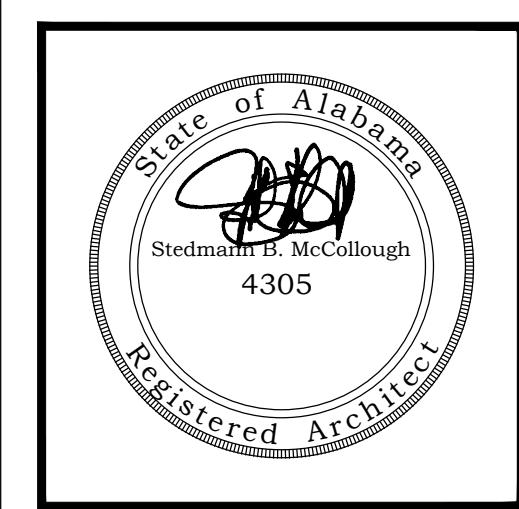
Table with 2 columns: ABBREV. and TERM. Lists abbreviations for accessible, acoustic ceiling tile, Americans with Disabilities Act, aluminum, assembly, bead board, concrete, continuous, carpet, dimension, dishwasher, electric/electrical, elevator, equipment, epoxy paint, exterior, electric water cooler, fire extinguisher cabinet, fiberglass, finish/finished, floor, fiber-reinforced plastic, foot/feet, ground fault interrupter, gypsum board, hose bibb, hollow core, hollow metal, horizontal, hour, interior, janitor, maximum, mechanical, metal, microwave, minimum, moisture resistant, not to scale, on center, pre-fabricated, paint/painted, pressure treated, quarry tile, refrigerator, reinforced, required, solid core, square foot/feet, shower, scored/stained, stainless steel, stained, storage, typical, under counter, vending machine, vinyl wood plank, wood, with, washer dryer, with out.

PLAN MARKER/TAG LEGEND

Table showing symbols for room number, door number, interior elevation, section cut location marker, detail marker, wall type marker, storefront type, elevation marker, and revision marker.

GENERAL NOTES

- 1. ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.
2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
3. IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
4. CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS, ETC.
5. DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
6. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION, OR BEGINNING CONSTRUCTION.
8. PROVIDE TEMPORARY SETTLEMENT BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.
9. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
10. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
11. NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES TO BE ALLOWED.
12. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROPERLY.
13. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
14. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY W/ OSHA REQUIREMENTS.
15. ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL PLUMBING, AND MECHANICAL.



ORANGE BEACH FIRE STATION NUMBER 5 ORANGE BEACH ALABAMA

JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

SHEET NO.:

A1.0

ADA STADARDS



**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

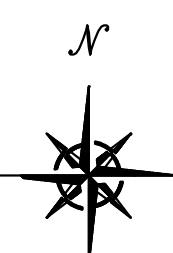
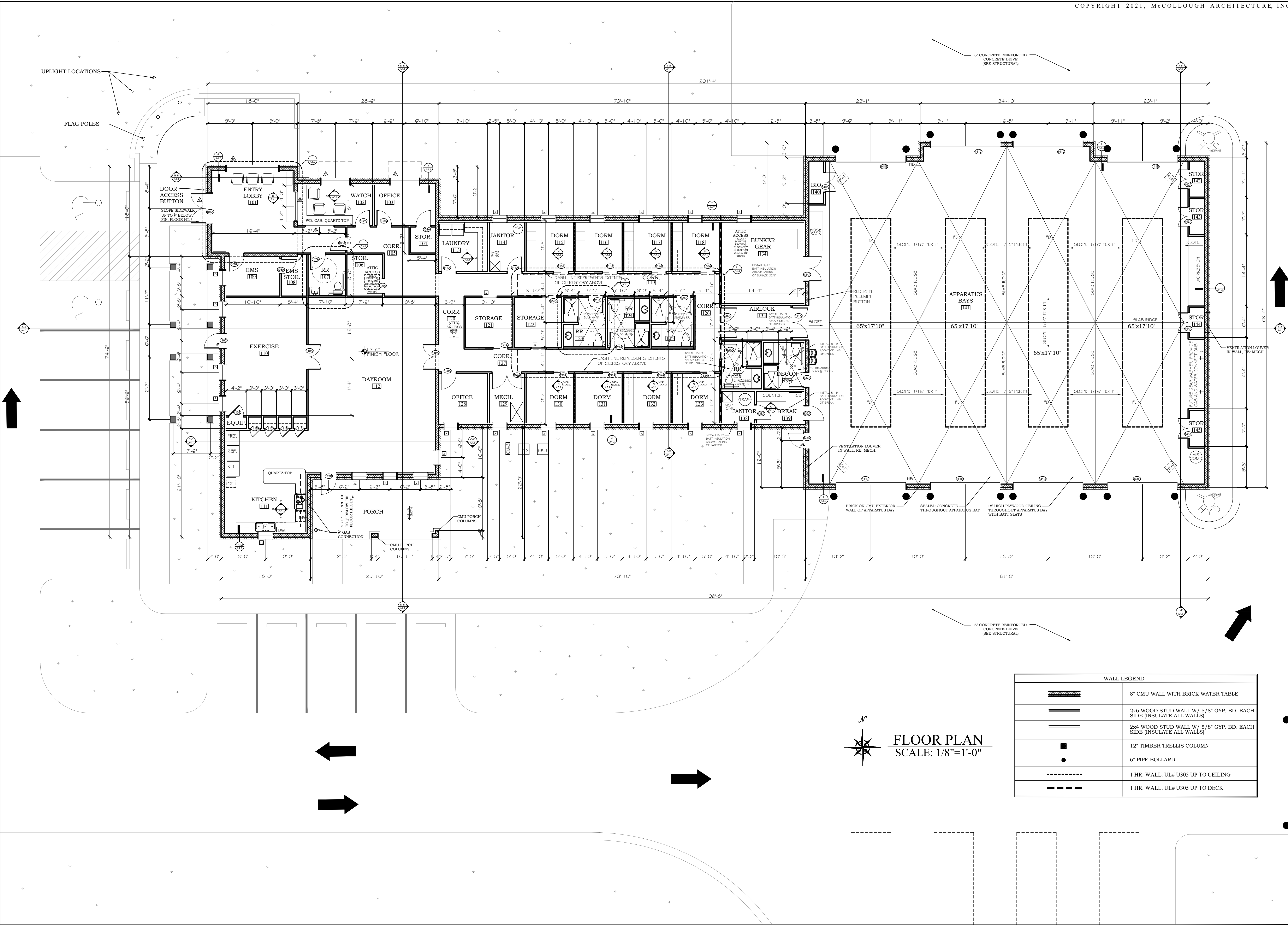
JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

SHEET NO.:

A1.1

FLOOR PLAN

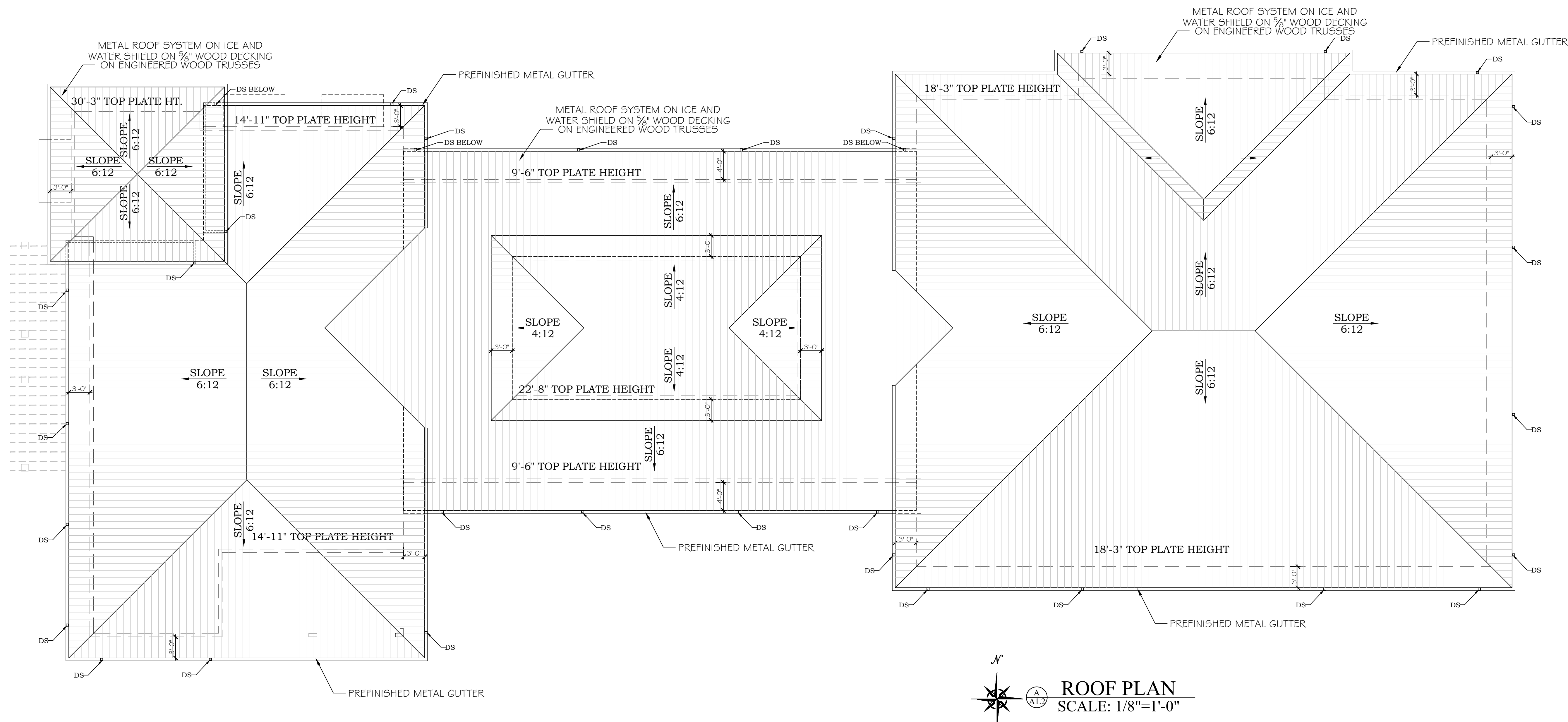


FLOOR PLAN
SCALE: 1/8" = 1'-0"

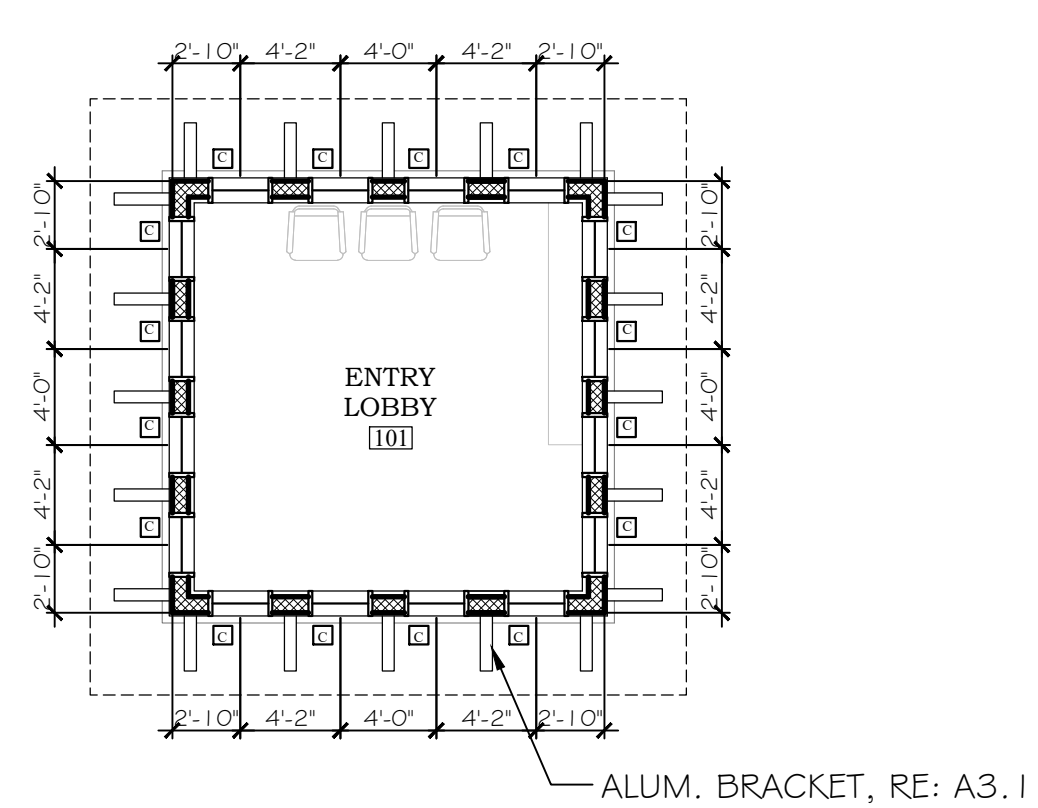
WALL LEGEND	
	8" CMU WALL WITH BRICK WATER TABLE
	2x6 WOOD STUD WALL W/ 5/8" GYP. BD. EACH SIDE (INSULATE ALL WALLS)
	2x4 WOOD STUD WALL W/ 5/8" GYP. BD. EACH SIDE (INSULATE ALL WALLS)
	12" TIMBER TRELIS COLUMN
	6" PIPE BOLLARD
	1 HR. WALL, UL# U305 UP TO CEILING
	1 HR. WALL, UL# U305 UP TO DECK



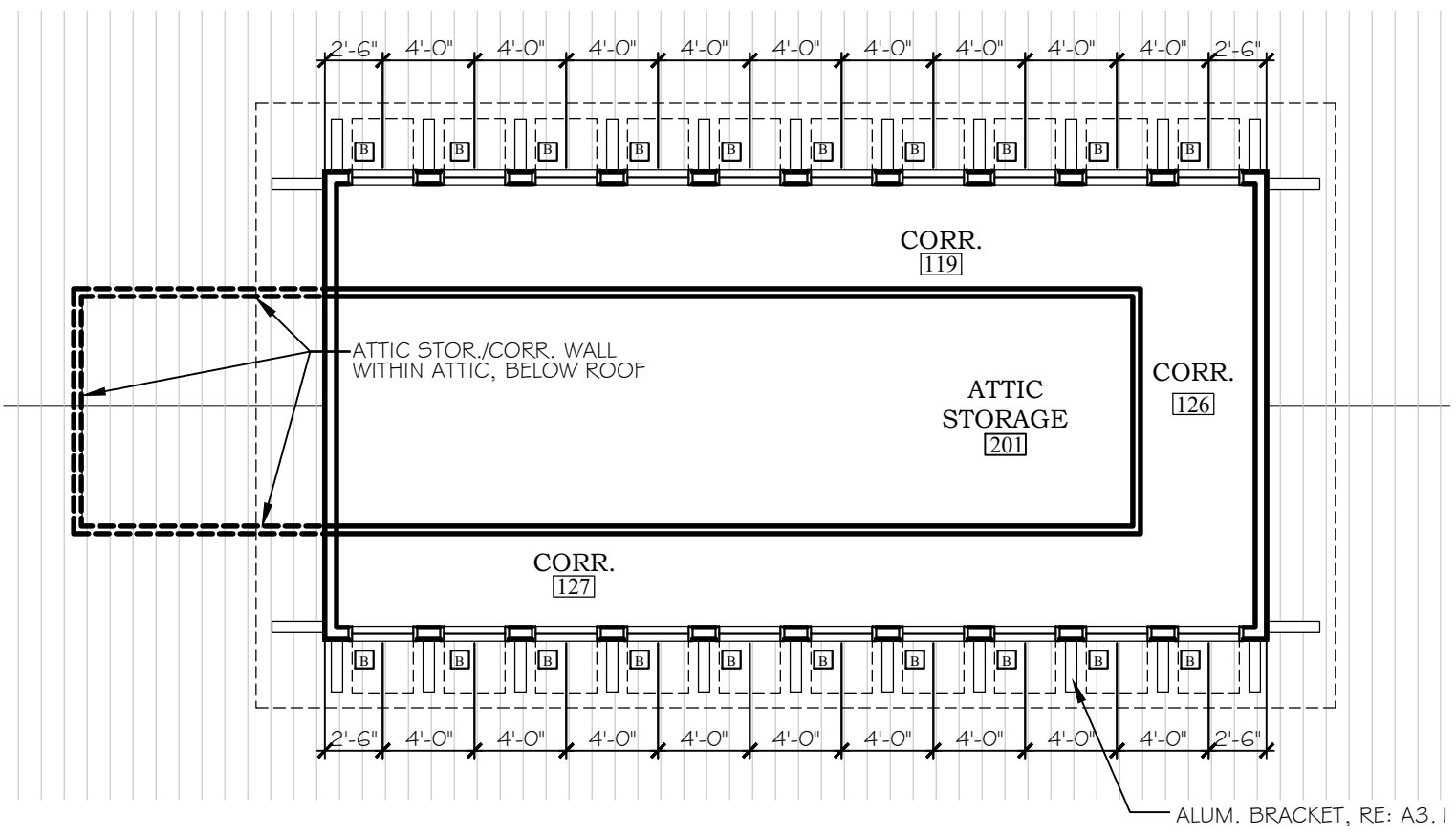
ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA



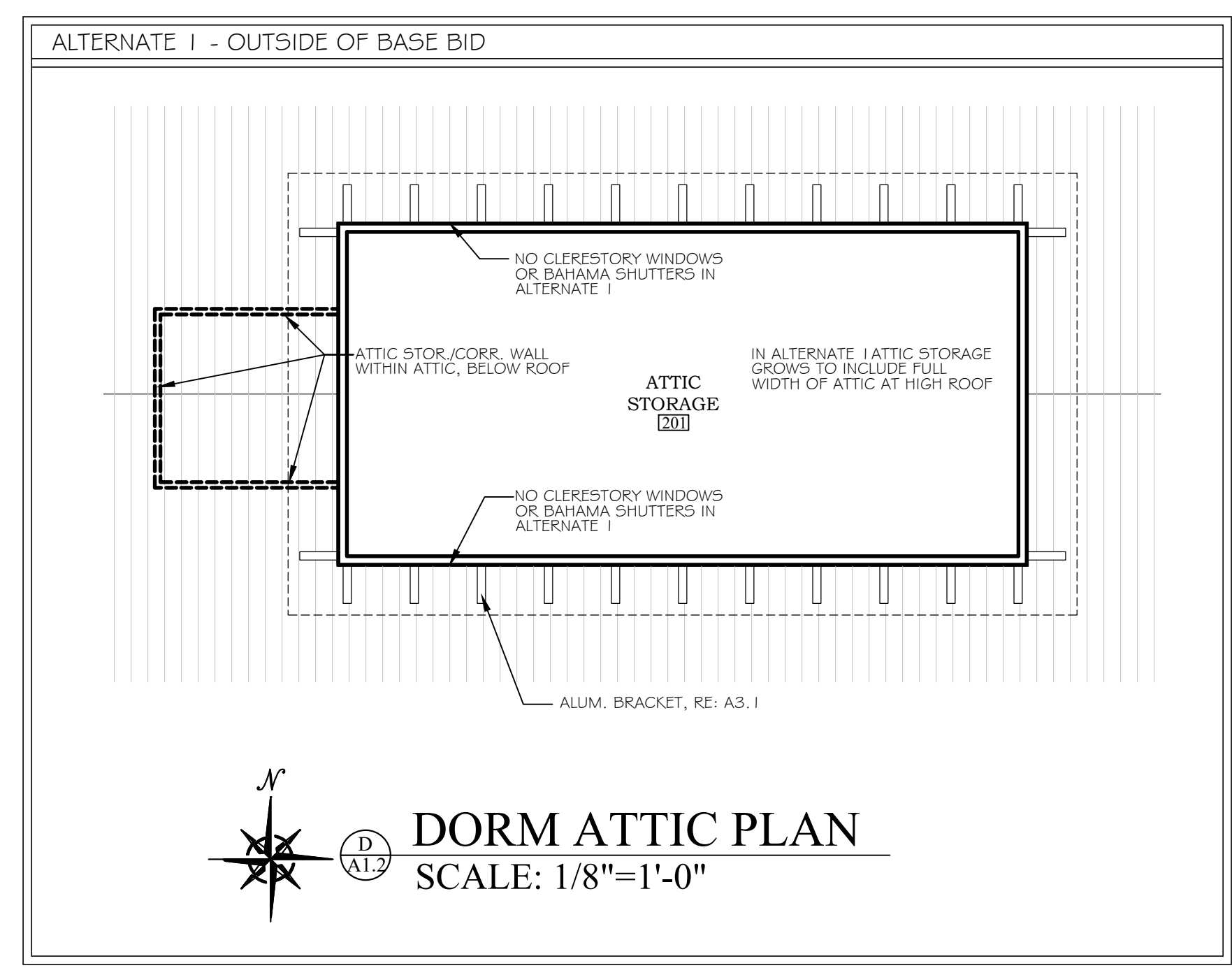
ROOF PLAN
 SCALE: 1/8"=1'-0"



TOWER CLERESTORY PLAN
 SCALE: 1/8"=1'-0"



DORM CLERESTORY PLAN
 SCALE: 1/8"=1'-0"



DORM ATTIC PLAN
 SCALE: 1/8"=1'-0"

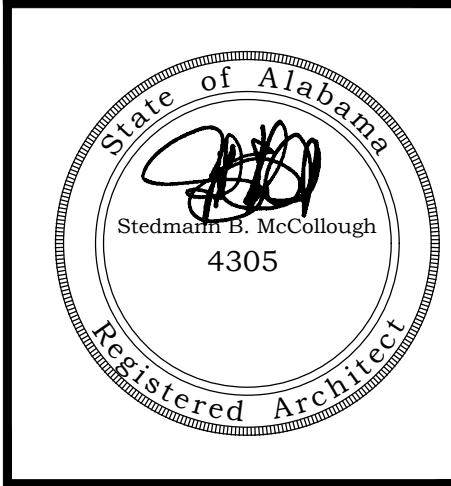
JOB NO.:	
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.11.01
REVISION:	

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

SHEET NO.:

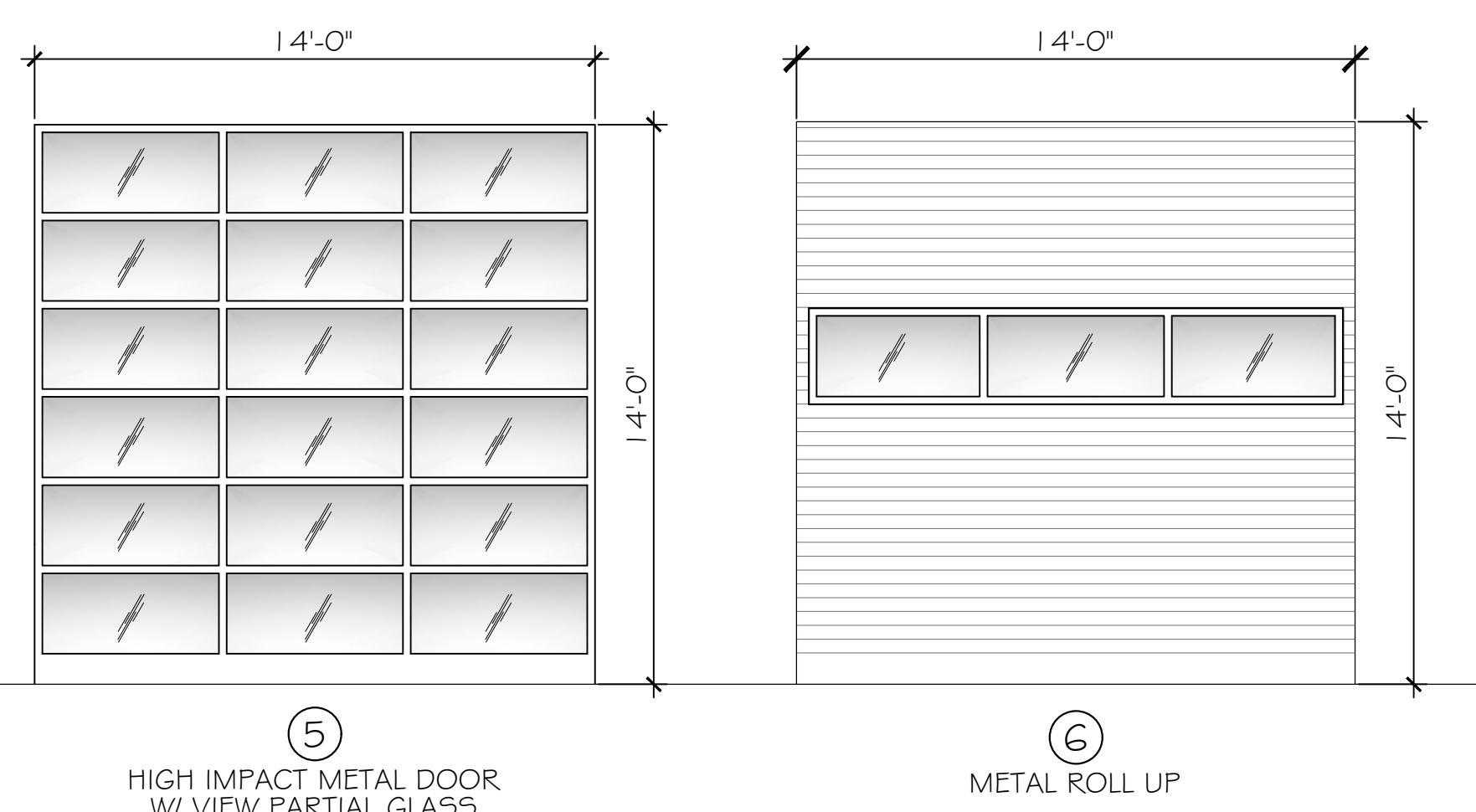
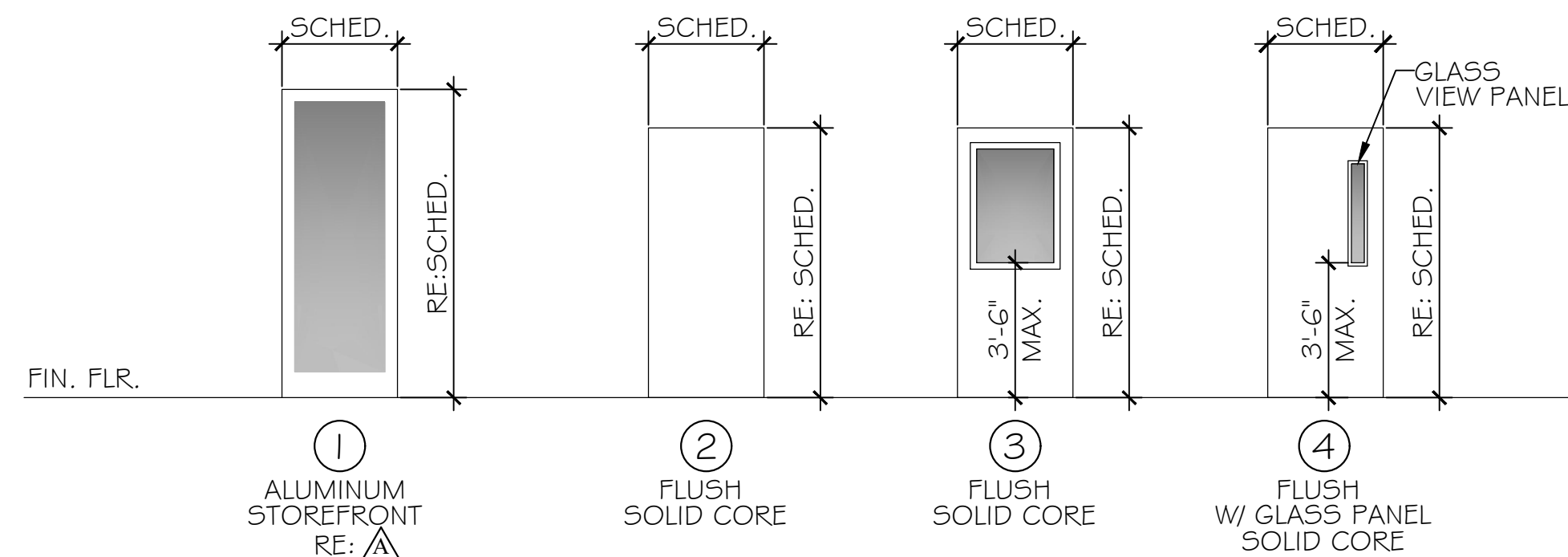
A1.2

ROOF PLAN

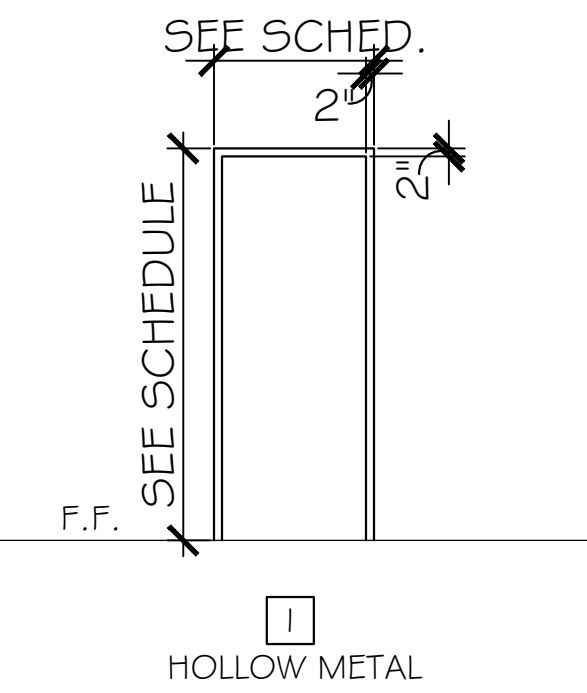


DOOR TYPES
1/4"=1'-0"

NOTE
ALL EXTERIOR DOORS AND WINDOWS TO BE RATED FOR LARGE MISSILE IMPACT.

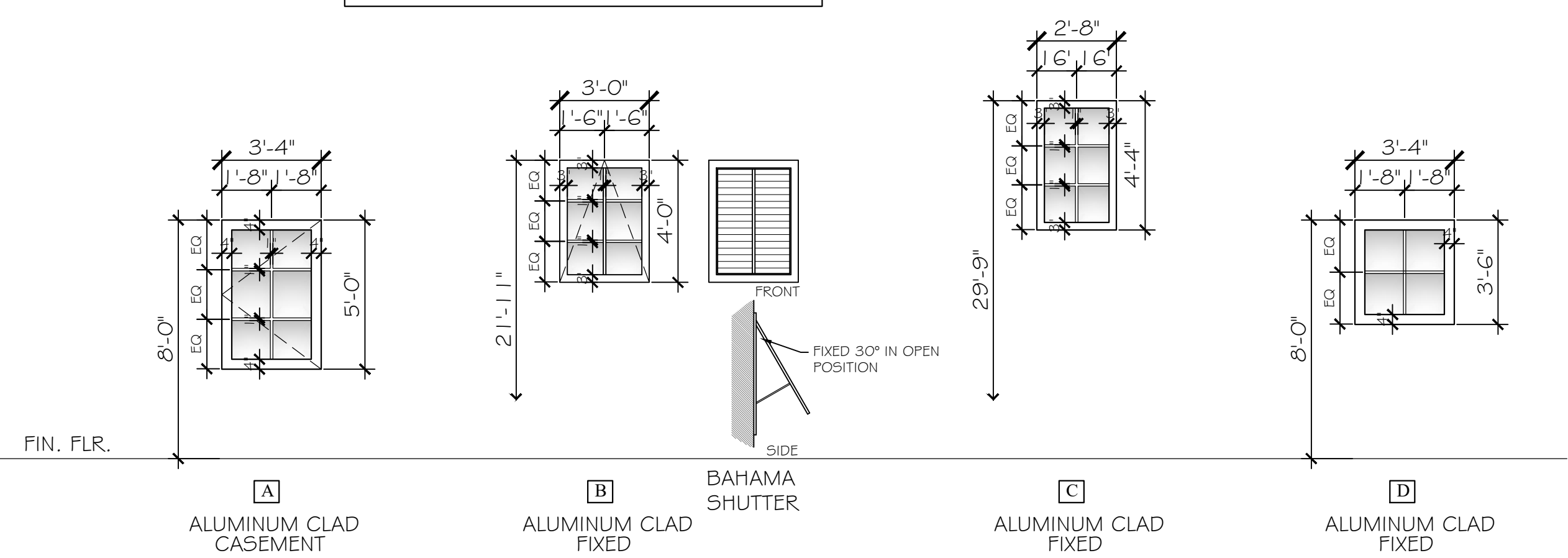


FRAME TYPE
SCALE: 1/4"=1'-0"



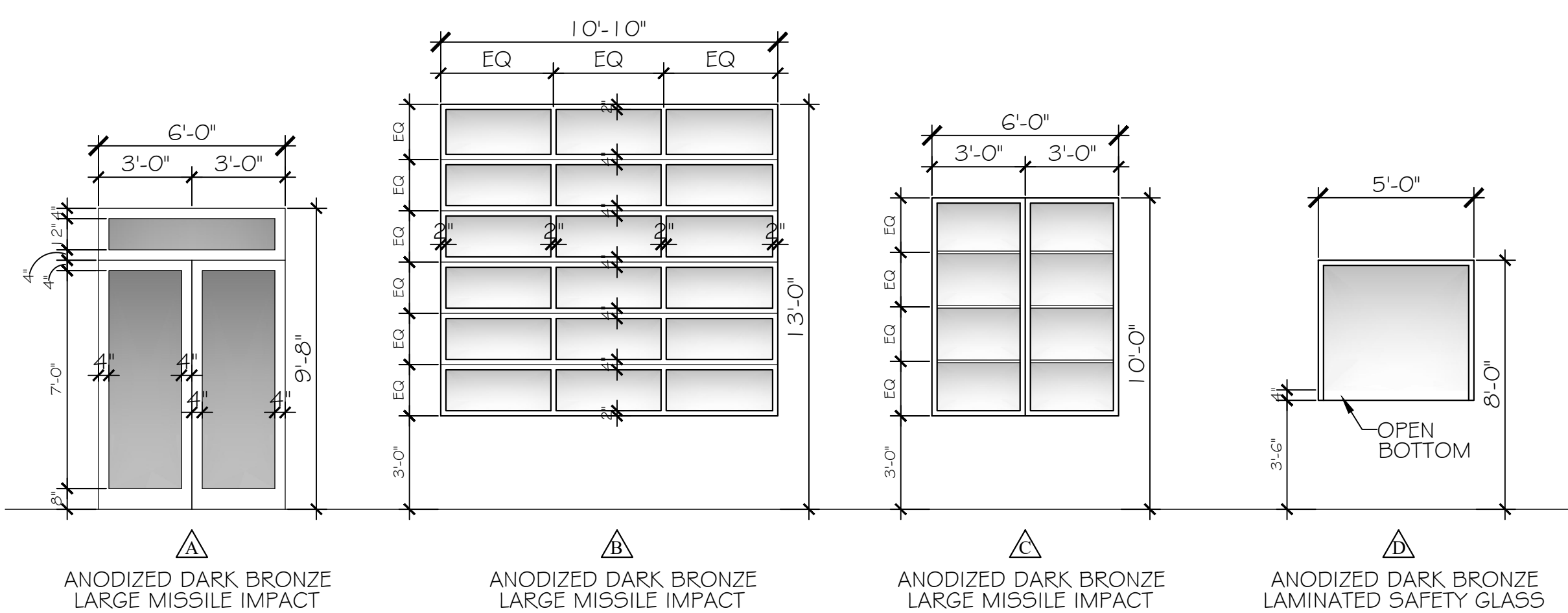
WINDOWS
1/4"=1'-0"

NOTE
ALL EXTERIOR DOORS AND WINDOWS TO BE RATED FOR LARGE MISSILE IMPACT.



ALUMINUM STOREFRONT
1/4"=1'-0"

NOTE
ALL EXTERIOR STOREFRONT TO BE RATED FOR LARGE MISSILE IMPACT.



DOOR SCHEDULE										
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME FINISH	RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
I01A	FR 3'-0" X 8'-0"	1	STOREFRONT	-	STOREFRONT	-	-	-	YES	
I02A	3'-0" X 7'-0"	4	WOOD	STAIN	METAL	PAINT	-	-	-	
I03A	3'-0" X 7'-0"	4	WOOD	STAIN	METAL	PAINT	-	-	-	
I04A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I05A	3'-0" X 7'-0"	3	WOOD	STAIN	METAL	PAINT	-	-	YES	
I06A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I07A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I08A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I09A	3'-0" X 7'-0"	4	WOOD	STAIN	METAL	PAINT	-	-	-	
I10A	FR 2'-6" X 7'-0"	3	WOOD	STAIN	METAL	PAINT	-	-	-	
I10B	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I10C	3'-0" X 8'-0"	3	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	YES	
I11A	2'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I11B	2'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I11C	2'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I11D	2'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I12A	FR 2'-6" X 7'-0"	3	WOOD	STAIN	METAL	PAINT	-	-	-	
I12B	3'-0" X 8'-0"	3	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	YES	
I13A	3'-0" X 7'-0"	4	WOOD	STAIN	METAL	PAINT	-	-	-	
I14A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I15A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I16A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I17A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I18A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I21A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I22A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	-	
I23A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	YES	
I24A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL	PAINT	-	-	YES	

NOTES: METAL = HOLLOW METAL ALUMINUM TUBE FRAME BY SPECIAL-LITE (PAINTED)

DOOR SCHEDULE										
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME FINISH	RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
I25A	3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	YES	
I28A	3'-0" X 7'-0"	4	WOOD	STAIN	H.M.	PAINT	-	-	-	
I29A	FR 3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	-	
I30A	3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	-	
I31A	3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	-	
I32A	3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	-	
I33A	3'-0" X 7'-0"	2	WOOD	STAIN	H.M.	PAINT	-	-	-	
I34A	FR 2'-6" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I35A	FR 3'-0" X 7'-0"	3	WOOD	PAINT	HOLLOW MTL (45 MIN. FRAME)	PAINT	45 MIN.	-	YES	PROV. PANIC HARDWARE
I36A	3'-0" X 7'-0"	2	WOOD	STAIN	METAL (45 MIN. FRAME)	PAINT	45 MIN.	-	YES	
I37A	3'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	YES	
I38A	3'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I39A	3'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I40A	FR 2'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I41A	FR 3'-0" X 7'-0"	3	ALUM.	FRP/ALUM.	H.M.	PAINT	-	-	YES	PROV. PANIC HARDWARE
I41B	14'-0" X 14'-0"	5	METAL	PAINT	H.M.	PAINT	-	-	-	
I41C	14'-0" X 14'-0"	5	METAL	PAINT	H.M.	PAINT	-	-	-	
I41D	14'-0" X 14'-0"	5	METAL	PAINT	H.M.	PAINT	-	-	-	
I41E	14'-0" X 14'-0"	5	METAL	PAINT	H.M.	PAINT	-	-	-	
I41F	14'-0" X 14'-0"	6	METAL	PAINT	H.M.	PAINT	-	-	-	
I41G	14'-0" X 14'-0"	6	METAL	PAINT	H.M.	PAINT	-	-	-	
I41H	14'-0" X 14'-0"	6	METAL	PAINT	H.M.	PAINT	-	-	-	
I41J	14'-0" X 14'-0"	6	METAL	PAINT	H.M.	PAINT	-	-	-	
I41K	3'-0" X 8'-0"	3	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	YES	
I42A	FR 2'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I43A	FR 2'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I44A	FR 2'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	
I45A	FR 2'-0" X 7'-0"	2	ALUM.	FRP/ALUM.	ALUM.	PAINT	-	-	-	

NOTES: HM = HOLLOW METAL, ALUM. = FRP ALUMINUM HYBRID

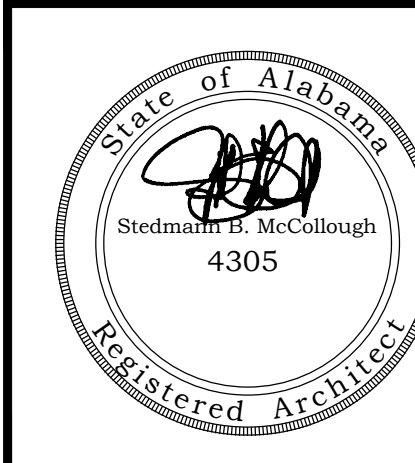
ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH ALABAMA

JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

SHEET NO.:

A2.1



ORANGE BEACH
FIRE STATION NUMBER 5
 ORANGE BEACH
 ALABAMA

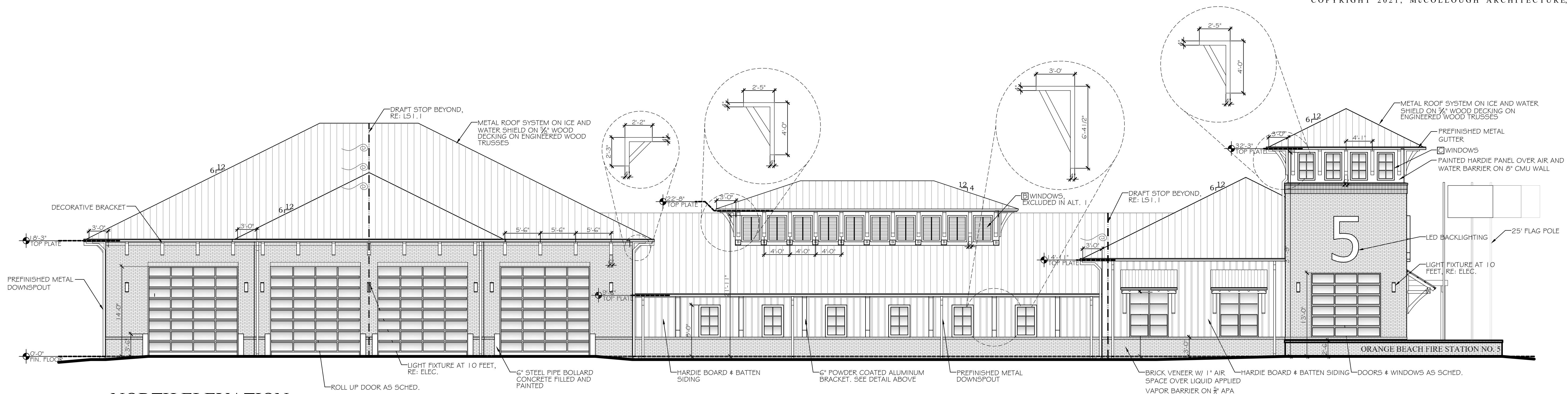
ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOORS		WALLS (1)			CEILING		HEIGHT	REMARKS
		FLOOR	BASE	MATERIALS	FINISH	MATERIAL	FINISH			
101	ENTRY LOBBY	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	±30'-4"		
102	WATCHMAN AREA	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	12'-0"		
103	OFFICE	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP. BD.	PAINT	12'-0"		
104	STORAGE	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	9'-0"		
105	CORRIDOR	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	10'-0"		
106	STORAGE	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	9'-0"		
107	RESTROOM	P.T. (9)	C.T.	M.R. GYP.BD.	PAINT (6)	GYP.BD.	PAINT	9'-0"		
108	EMS STORAGE	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	9'-0"		
109	EMS	LVT (8)	VINYL	GYP.BD.	PAINT (6)	GYP.BD.	PAINT	9'-0"		
110	EXERCISE	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	12'-0"	PROVIDE SEPARATE HVAC SYSTEM	
111	KITCHEN	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	12'-0"		
112	DAYROOM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	12'-0"		
113	LAUNDRY	LVT (8)	VINYL	M.R. GYP.BD.	PAINT (6)	GYP. BD.	PAINT	9'-0"		
114	JANITOR	LVT (8)	VINYL	M.R. GYP.BD.	PAINT (6)	GYP. BD.	PAINT	9'-0"		
115	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
116	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
117	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
118	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
119	CORRIDOR	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	VARIES	LOW CLG @ 12'-0" HIGH CLG. @ ±22'-8" RE:D/A 1.2	
120	CORRIDOR	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	10'-0"	RE:D/A 1.2	
121	STORAGE	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	9'-0"		
122	STORAGE	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	9'-0"		
123	RESTROOM	P.T. (9)	C.T.	M.R. GYP.BD.	PAINT (7)	GYP. BD.	PAINT	10'-0"	C.T. WALLS AT SHOWER (SEE ELEVATIONS)	
124	RESTROOM	P.T. (9)	C.T.	M.R. GYP.BD.	PAINT (7)	GYP. BD.	PAINT	10'-0"	C.T. WALLS AT SHOWER (SEE ELEVATIONS)	
125	RESTROOM	P.T. (9)	C.T.	M.R. GYP.BD.	PAINT (7)	GYP. BD.	PAINT	10'-0"	C.T. WALLS AT SHOWER (SEE ELEVATIONS)	
126	CORRIDOR	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	±22'-8"	RE:D/A 1.2	
127	CORRIDOR	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP.BD.	PAINT	VARIES	LOW CLG @ 12'-0" HIGH CLG. @ ±22'-8" RE:D/A 1.2	
128	OFFICE	LVT (8)	VINYL	GYP.BD.	PAINT (5)	GYP. BD.	PAINT	9'-0"		
129	MECHANICAL	LVT (8)	VINYL	M.R. GYP.BD.	PAINT (6)	GYP. BD.	PAINT	9'-0"		
130	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
131	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
132	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
133	DORM	LVT (8)	VINYL	GYP.BD.	PAINT (5)	ACT	-	9'-0"		
134	BUNKER GEAR	SEALED CONC. (2)	VINYL	M.R. GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	M.R. GYP.BD.	PAINT	10'-0"	PROVIDE SEPARATE HVAC SYSTEM	
135	AIRLOCK	SEALED CONC. (2)	VINYL	M.R. GYP.BD.	PAINT (7)	M.R. GYP.BD.	PAINT	10'-0"		
136	RESTROOM	P.T. (9)	C.T.	M.R. GYP.BD.	PAINT (7)	GYP. BD.	PAINT	9'-0"	C.T. WALLS AT SHOWER (SEE ELEVATIONS)	
137	DECONTAMINATION	P.T. (9)	-	P.T. (9)	-	M.R. GYP.BD.	PAINT	10'-0"	P.T. UP TO 7'	
138	JANITOR	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"		
139	BREAK	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"		
140	BIOHAZARD	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"	3/4" PLYWOOD ABOVE CLG. JOISTS FOR STOR. ABOVE	
141	APPARATUS BAYS	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	PLYWOOD (3)	PAINT	18'-0"	CMU - EPOXY LOW/ACRYLIC HIGH, RE: A-A & F-F / A4.1	
142	STORAGE	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"	3/4" PLYWOOD ABOVE CLG. JOISTS FOR STOR. ABOVE	
143	STORAGE	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"	3/4" PLYWOOD ABOVE CLG. JOISTS FOR STOR. ABOVE	
144	STORAGE	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"	3/4" PLYWOOD ABOVE CLG. JOISTS FOR STOR. ABOVE	
145	STORAGE	SEALED CONC. (2)	VINYL	GYP.BD. & PAINTED CMU BLOCK	PAINT (7)	GYP. BD.	PAINT	10'-0"	3/4" PLYWOOD ABOVE CLG. JOISTS FOR STOR. ABOVE	
201	ATTIC STORAGE	3/4" PLYWOOD	-	GYP.BD.	TAPE & FLOAT	GYP. BD.	TAPE & FLOAT	7'-0"±8'-0"	CEILING HEIGHT CHANGES AT CLERESTORY	
ABBREVIATIONS				NOTES			NOTES			
P.T. = PORCELAIN TILE		C.T. = CERAMIC TILE		(1) INSULATE ALL STUD WALLS; R-13 MIN. IN 4" CAVITY AND R-19 MIN. IN 6" CAVITIES.			(5) SW-2122 REFLECTIONS.			
CONC = CONCRETE					(2) EPOXY SYSTEM WITH SLIP RESISTANT AND URETHANE UV COATING. SEE SPECS.			(6) SW- 9138 STARDEW		
MR = MOISTURE RESISTANT GYPSUM					(3) PAINTED PLYWOOD CEILING WITH BATT STRIPS AT 4'-0" O.C. EACH WAY			(7) SW- 7663 MONORAIL SILVER		
SCF = SEALED CONCRETE FLOOR					(4) NOT USED			(8) SHAW FLOOR 1029 PACIFIC SUMMIT		
LVT = LUXURY VINYL TILE								(9) FLOORS 2000 MOTION WHITE SERIES		

JOB NO.:
 DRAWN: CLT
 CHECKED: SBM
 DATE: 2021.11.01
 REVISION:

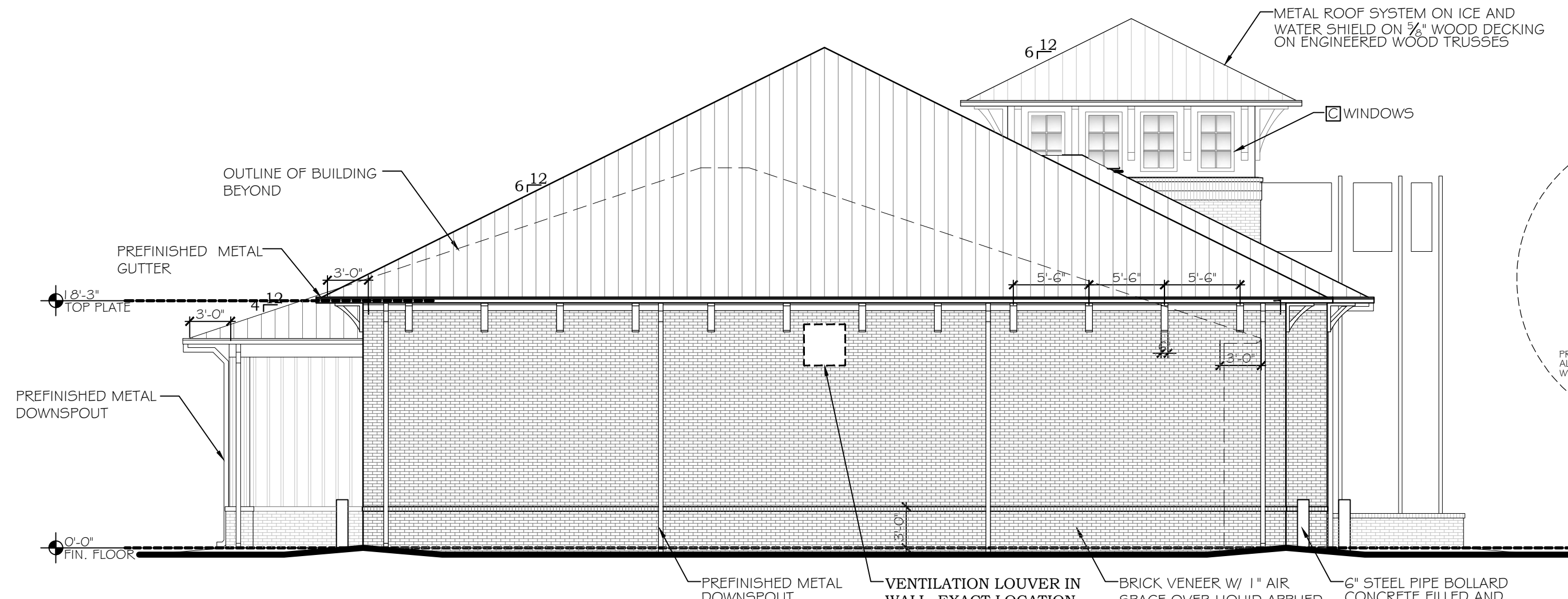
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 SHEET NO.:
A2.2
 ROOM FINISH SCHEDULE



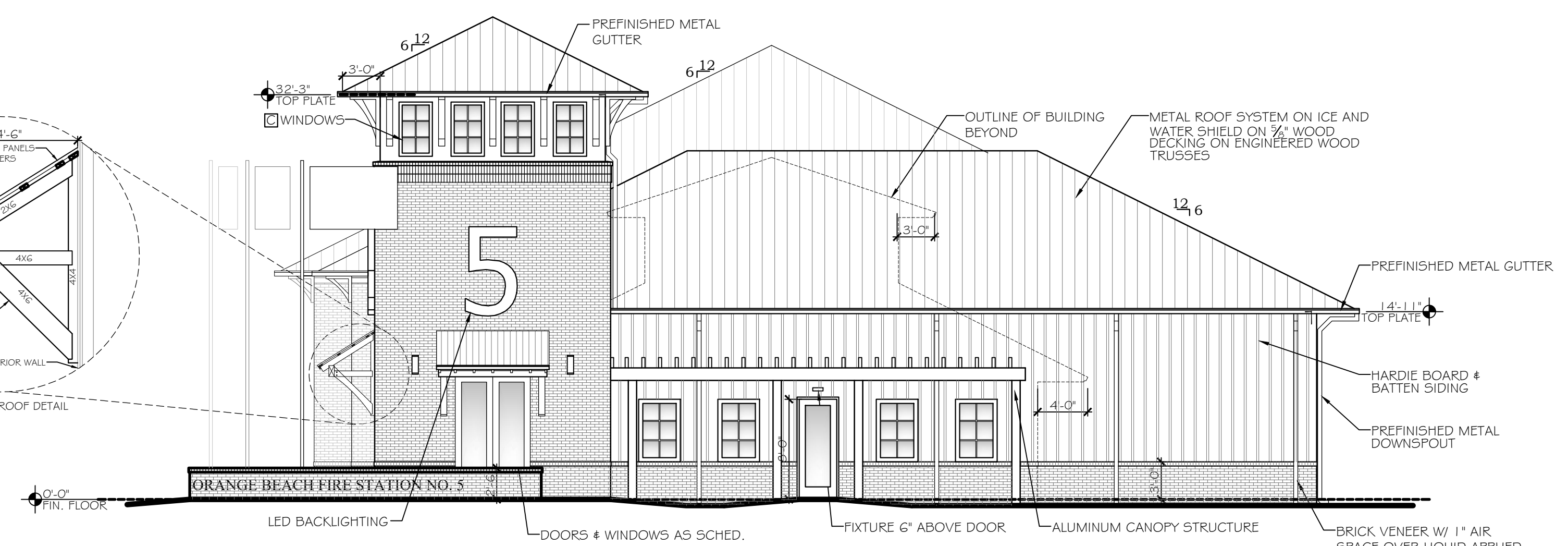
McColough
ARCHITECTURE, INC.
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



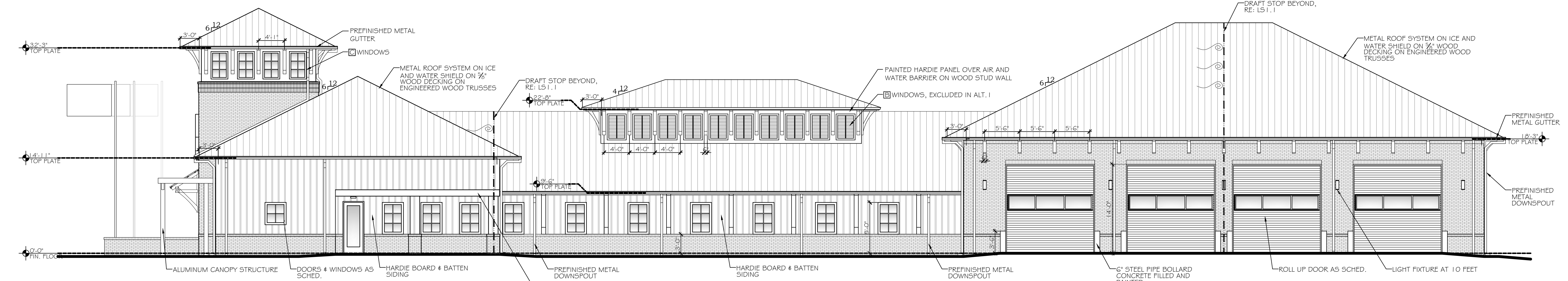
NORTH ELEVATION
SCALE: 1/8"=1'-0"



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



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



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

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

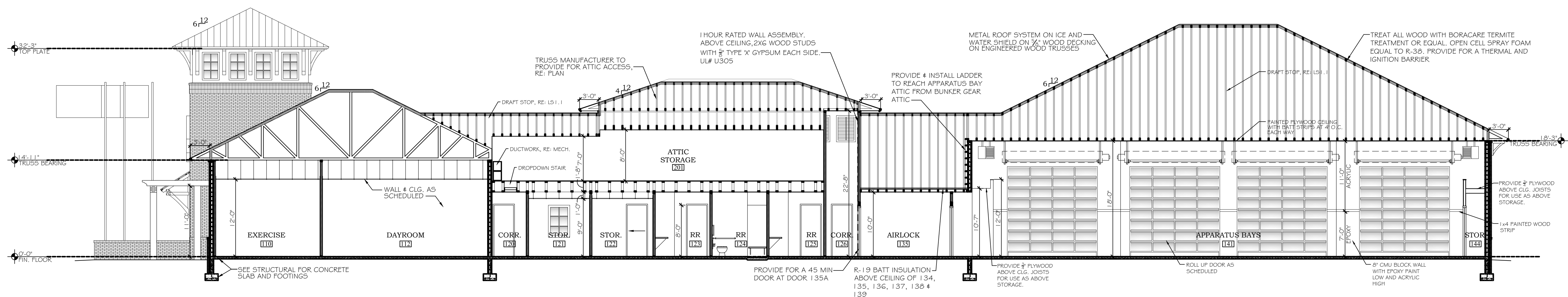
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A3.1

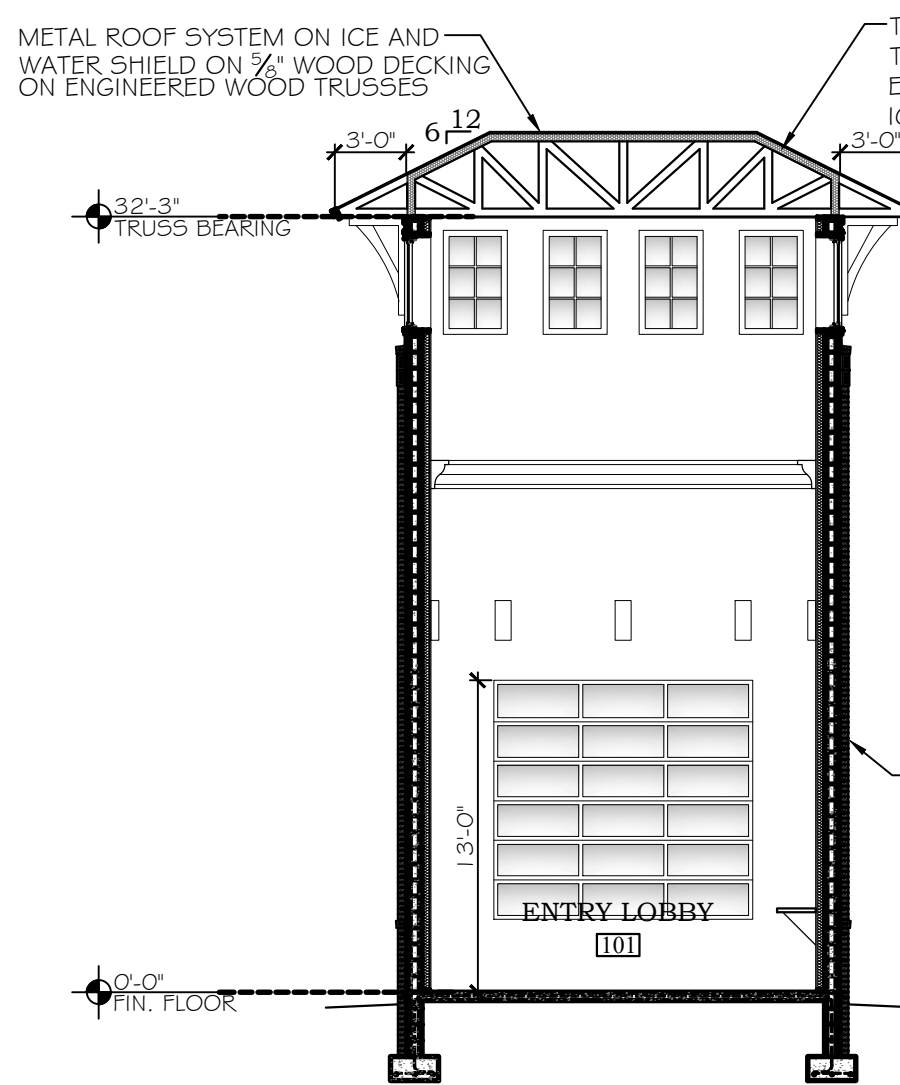
EXTERIOR ELEVATIONS



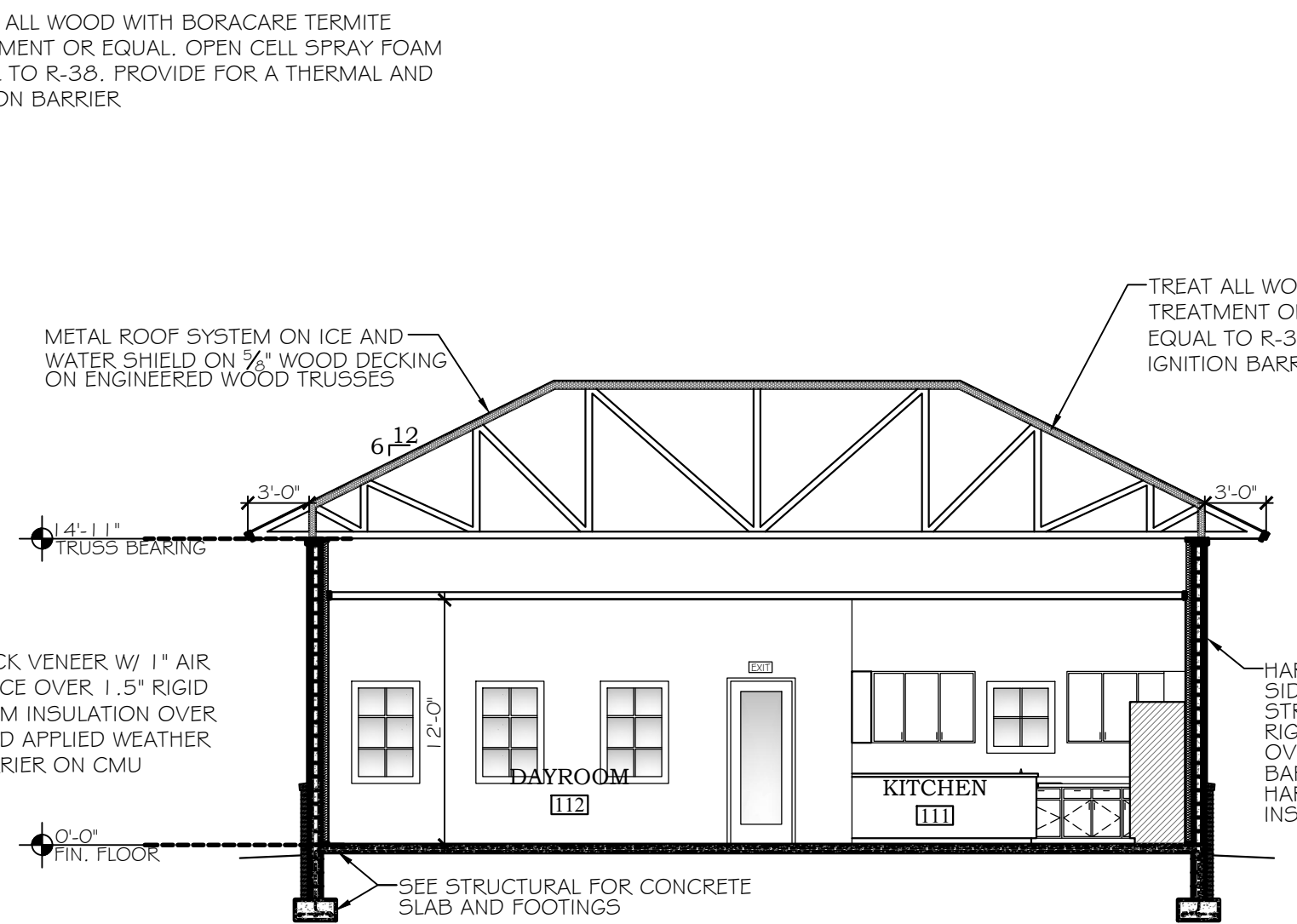
McCULLOUGH
ARCHITECTURE, INC.
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



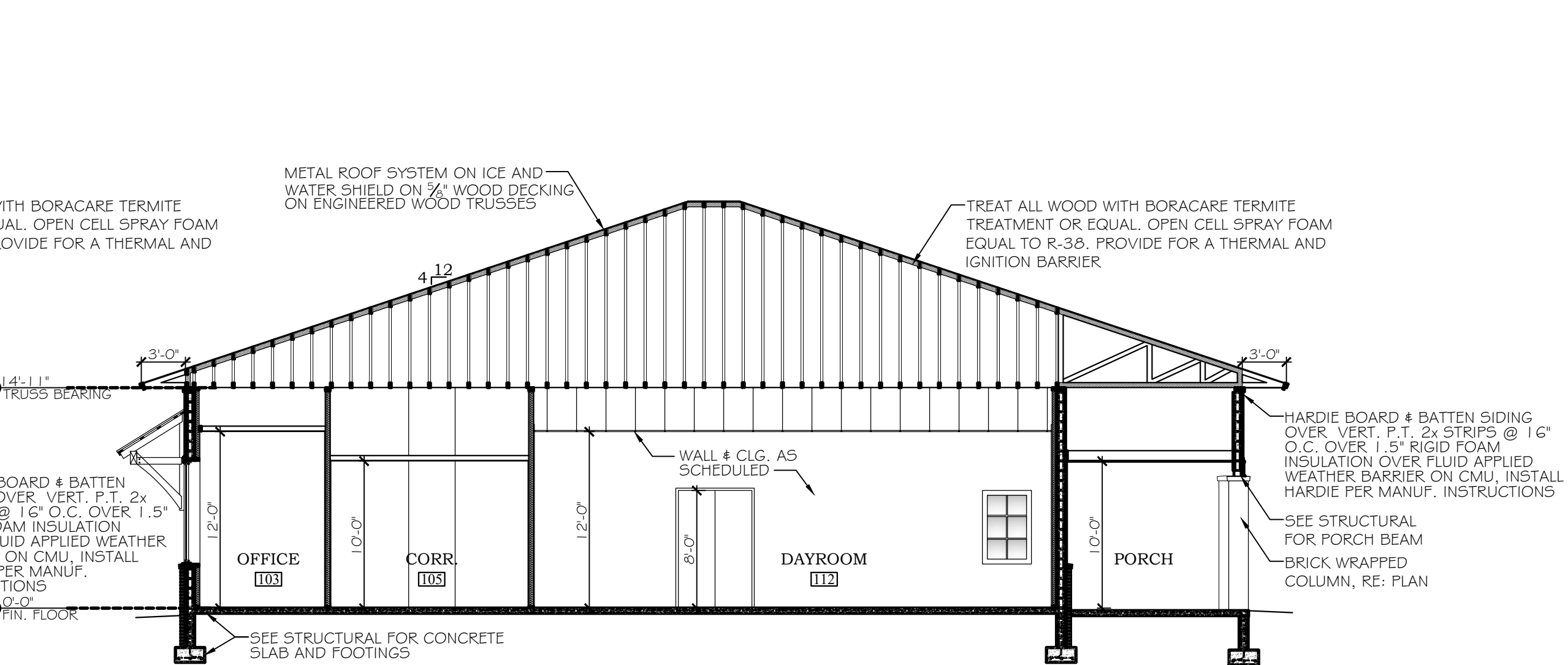
SECTION A-A
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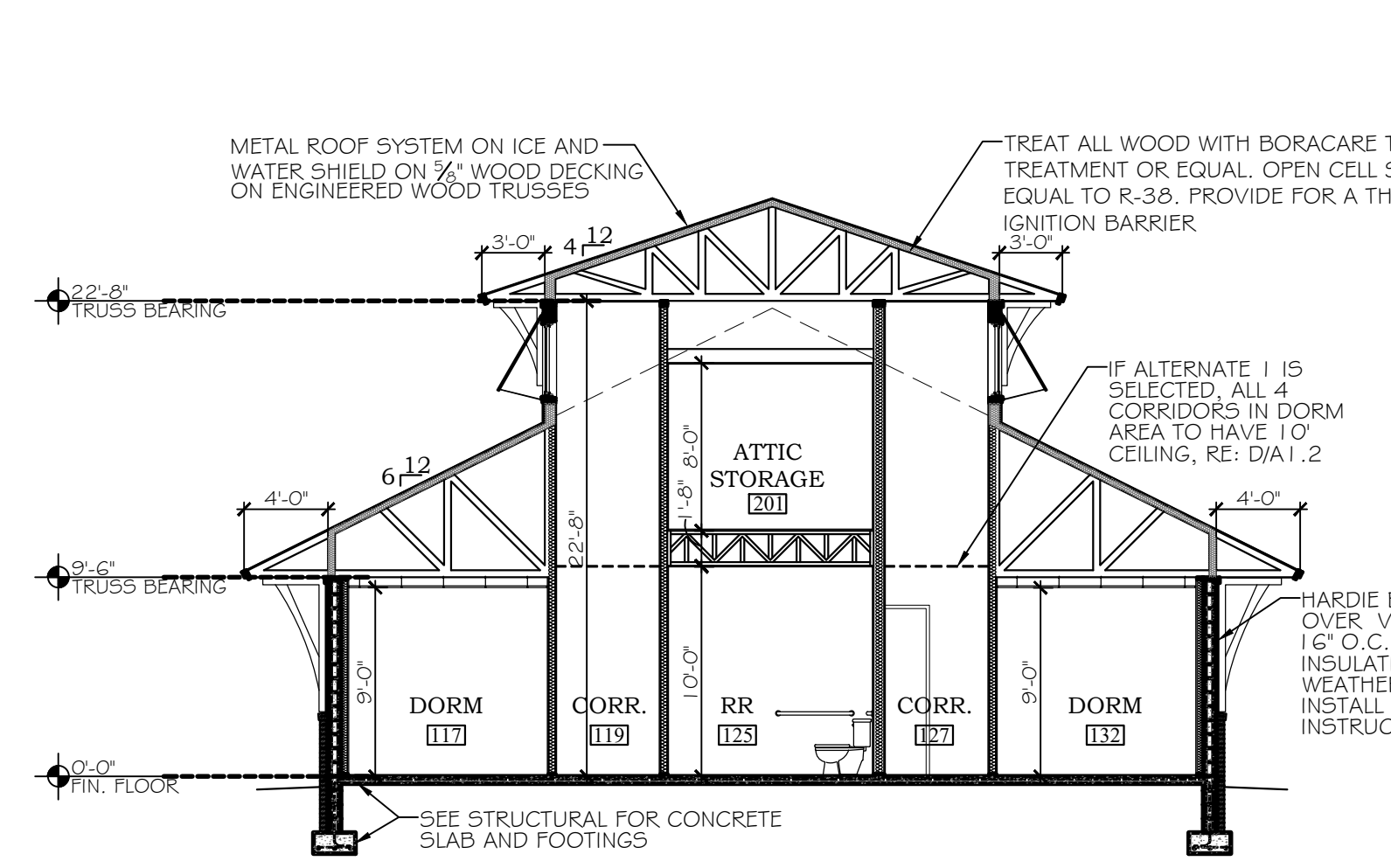
SECTION B-B
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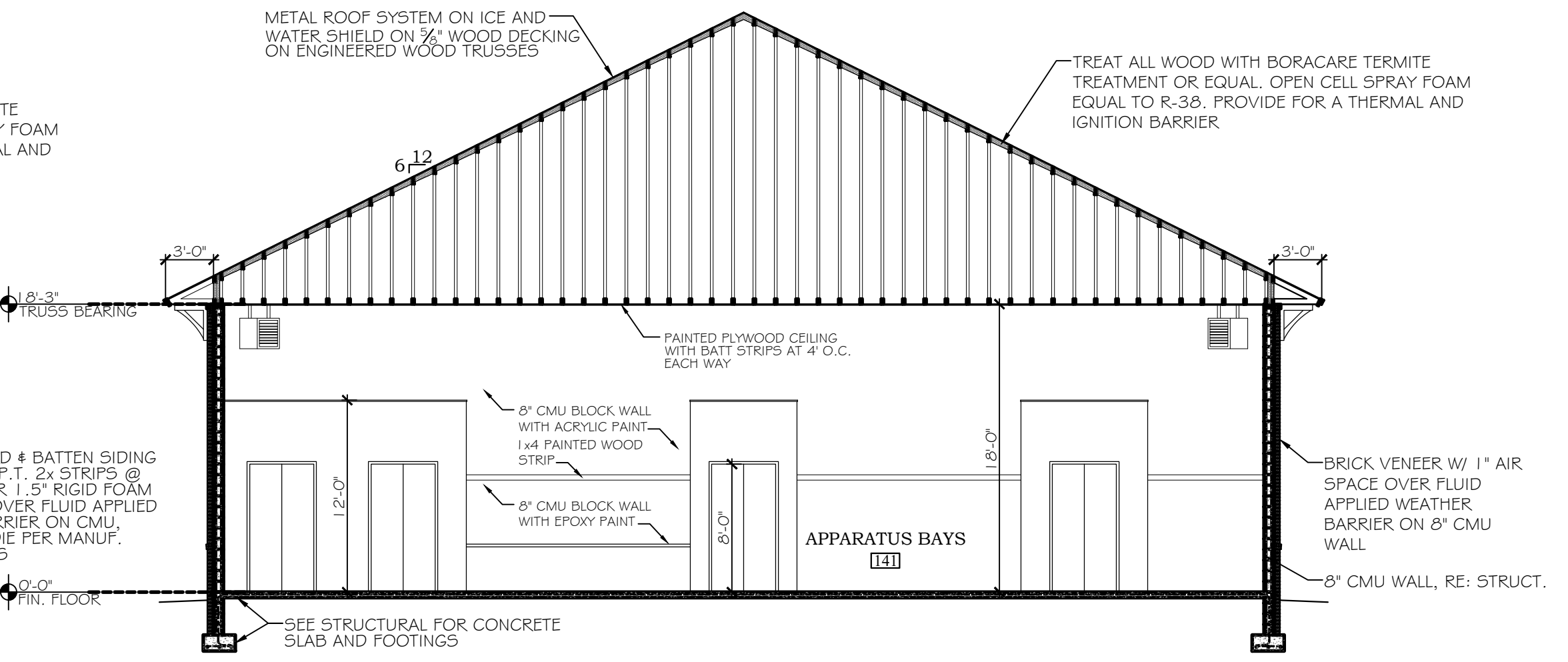
SECTION C-C
SCALE: 1/8"=1'-0"



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



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



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

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

JOB NO.:	
DRAWN:	CLT
CHECKED:	SBM
DATE:	2021.11.01
REVISION:	

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

SHEET NO.:

A4.1



McCOLLOUGH ARCHITECTURE, INC.
P.O. BOX 6310
GULF SHORES, ALABAMA 36547-6310
PHONE: 251-968-7222



ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH ALABAMA

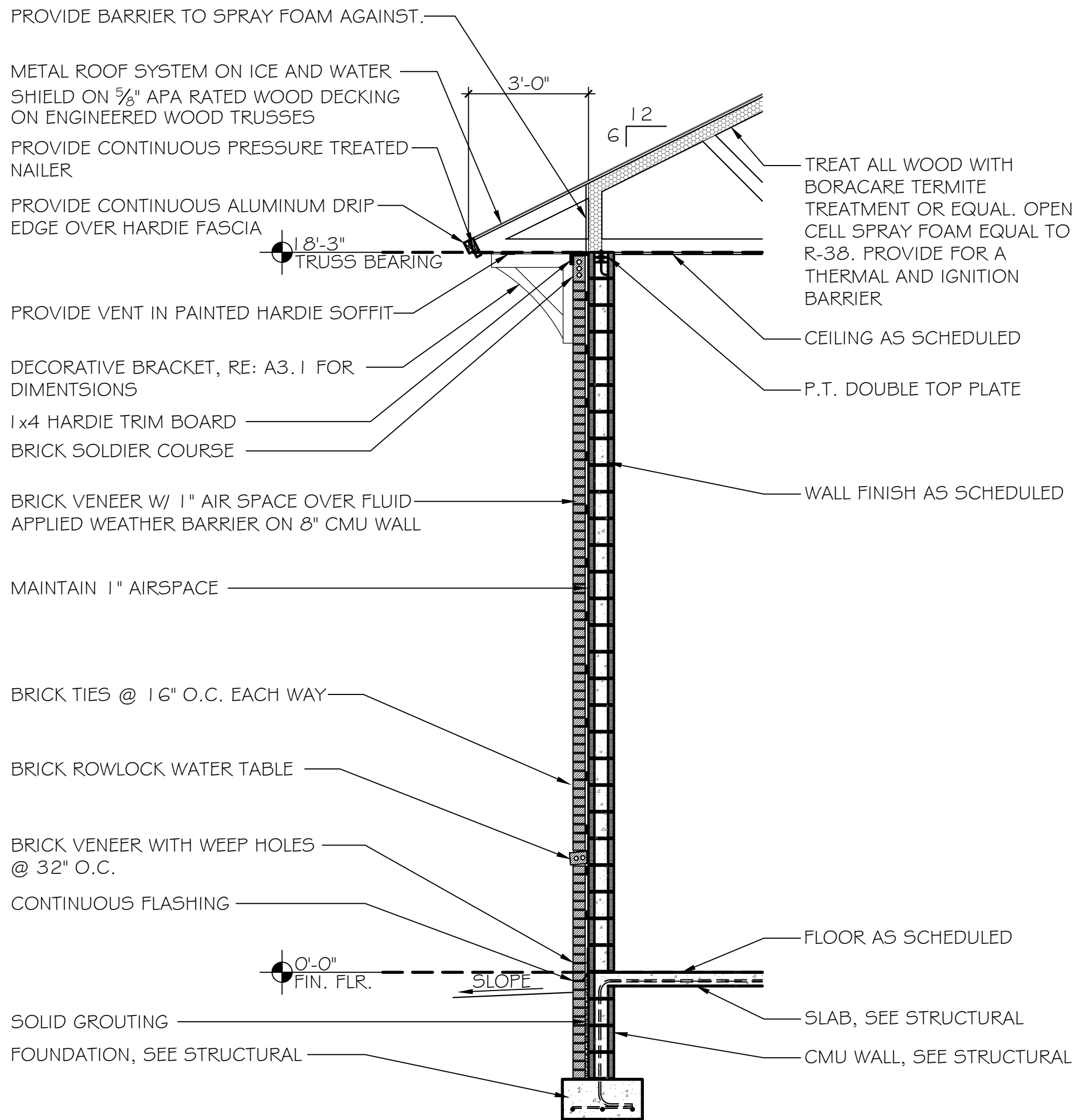
JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

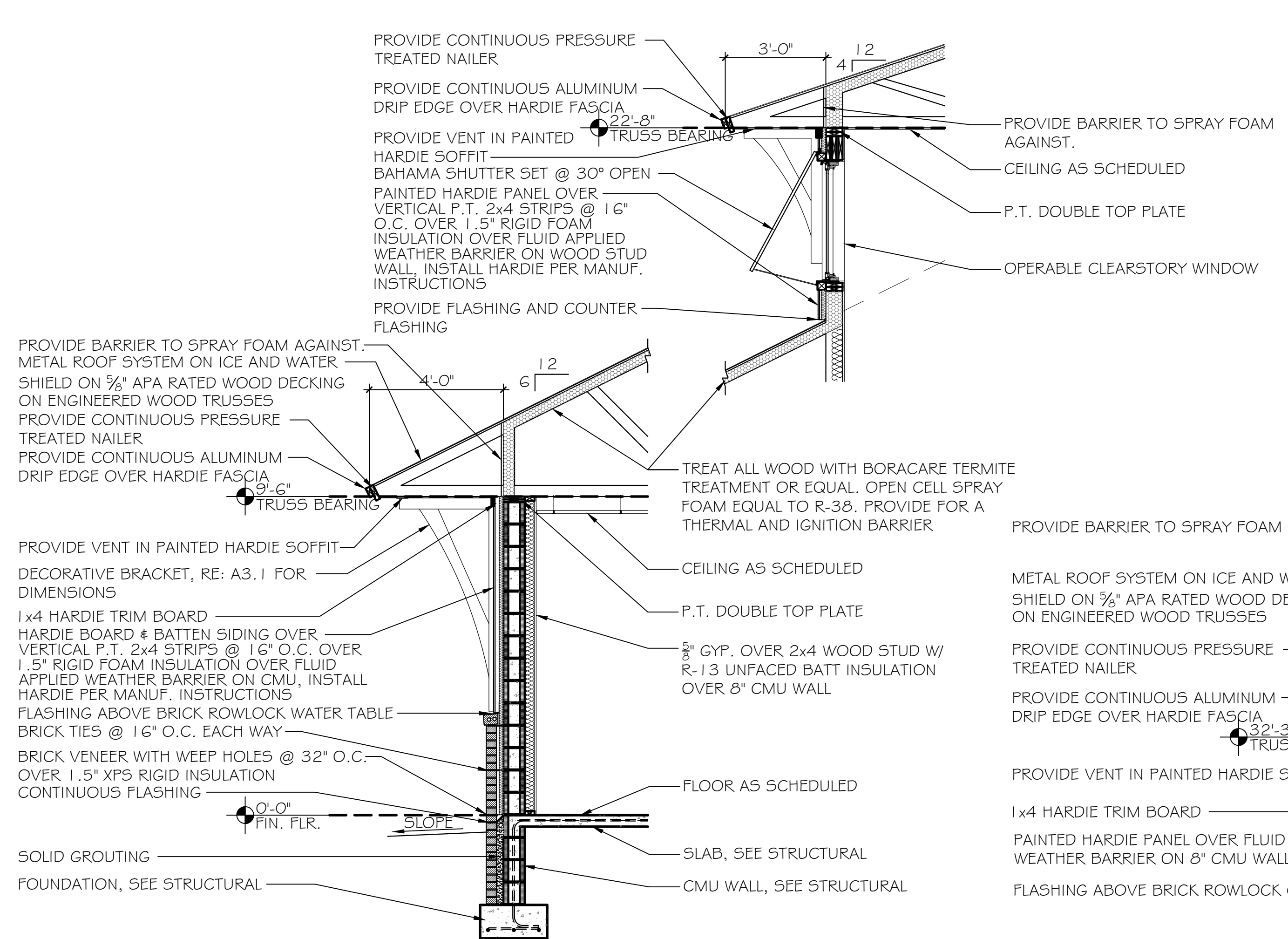
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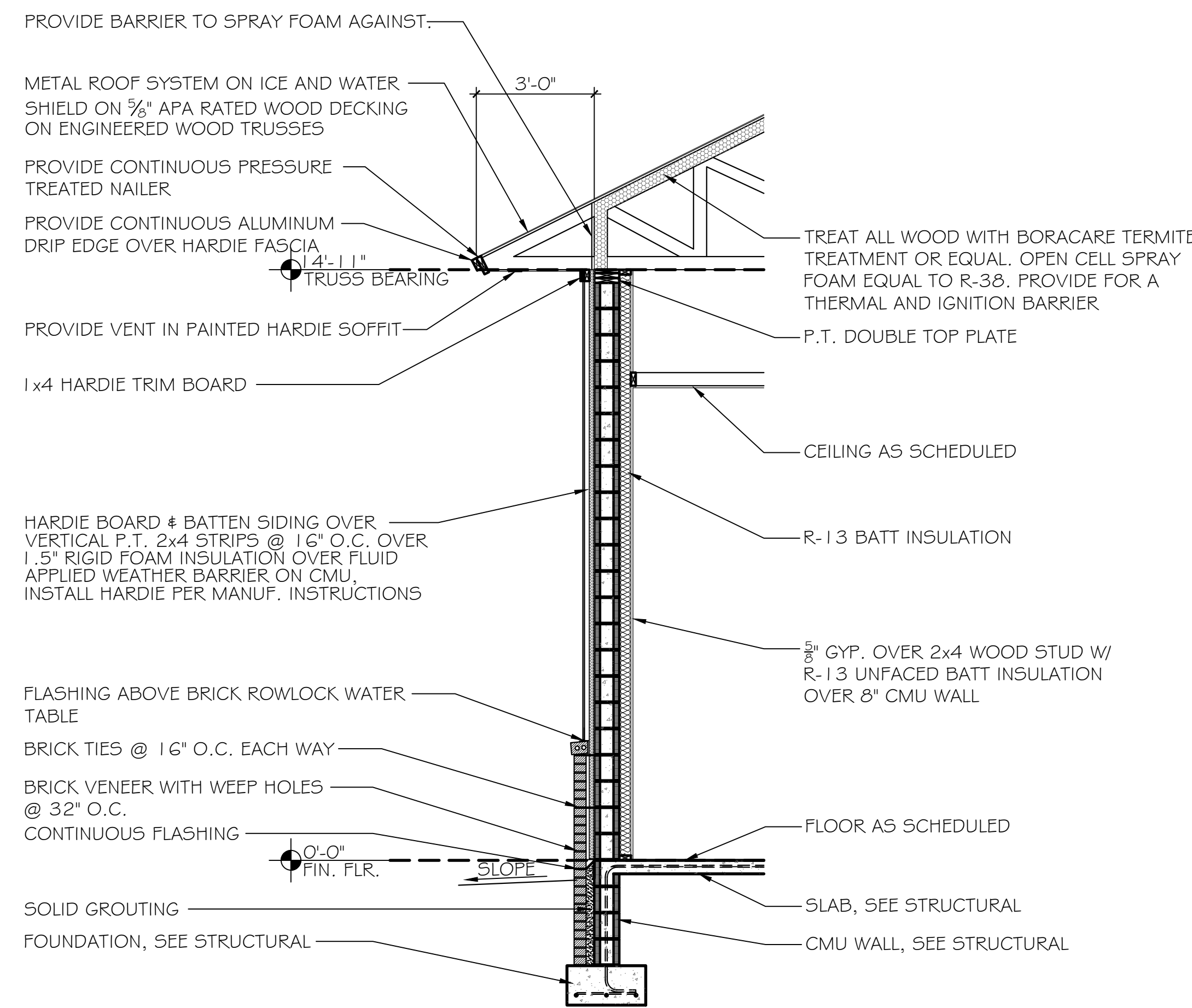
WALL SECTIONS AND DETAILS



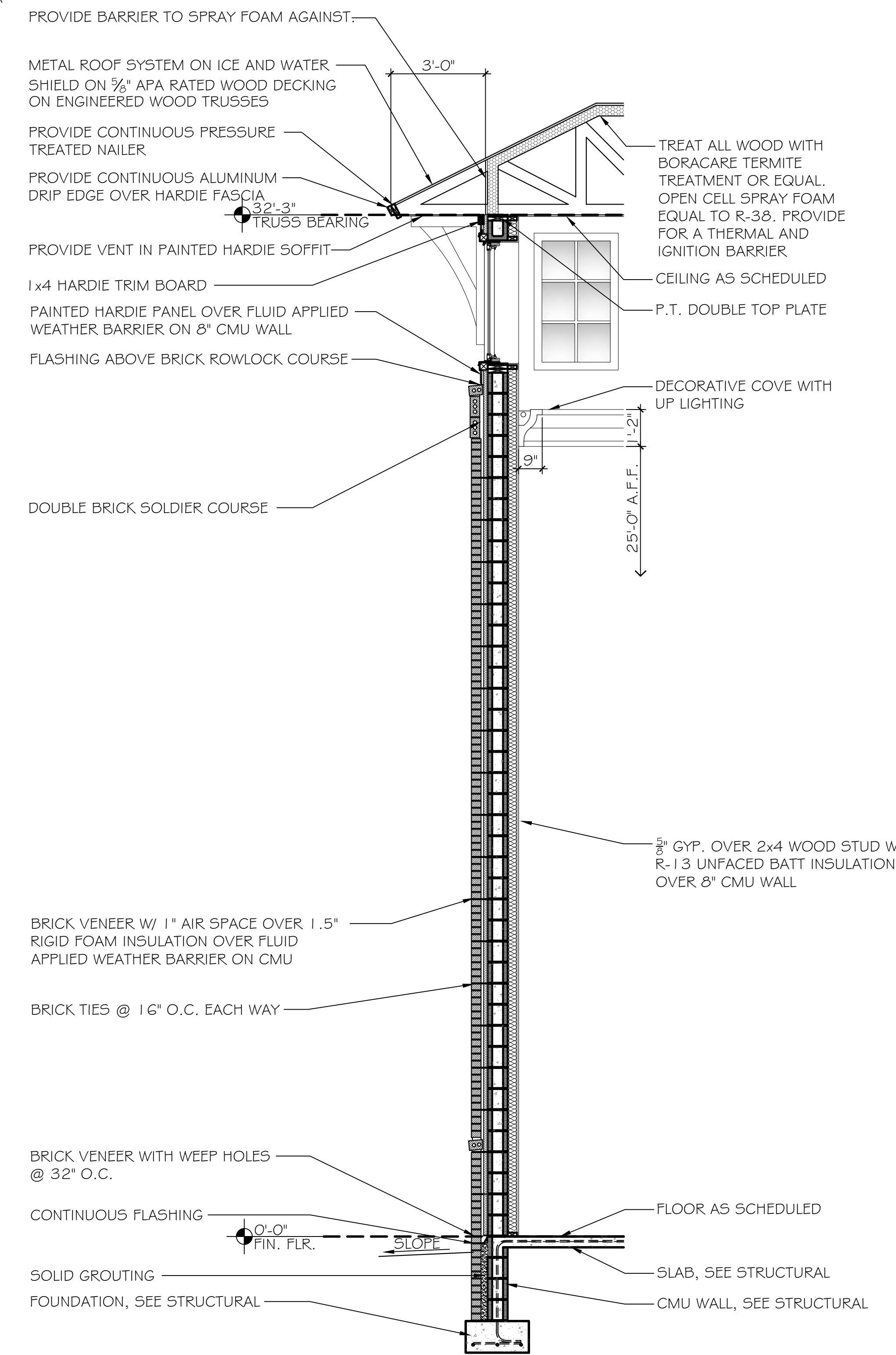
1 WALL SECTION
SCALE: 3/8" = 1'-0"



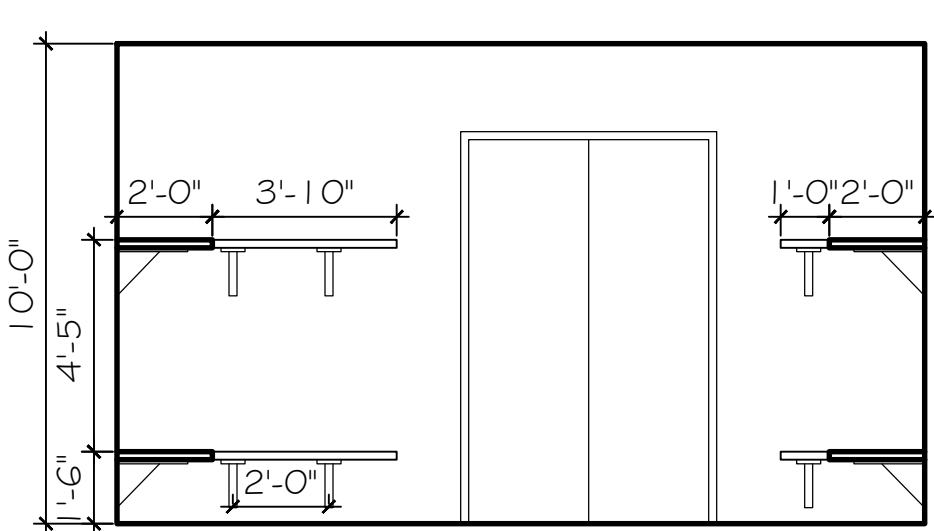
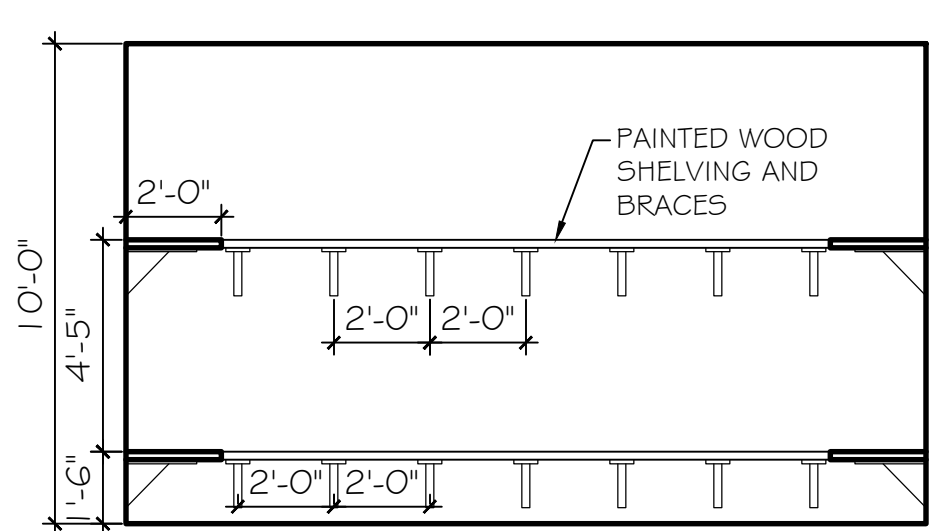
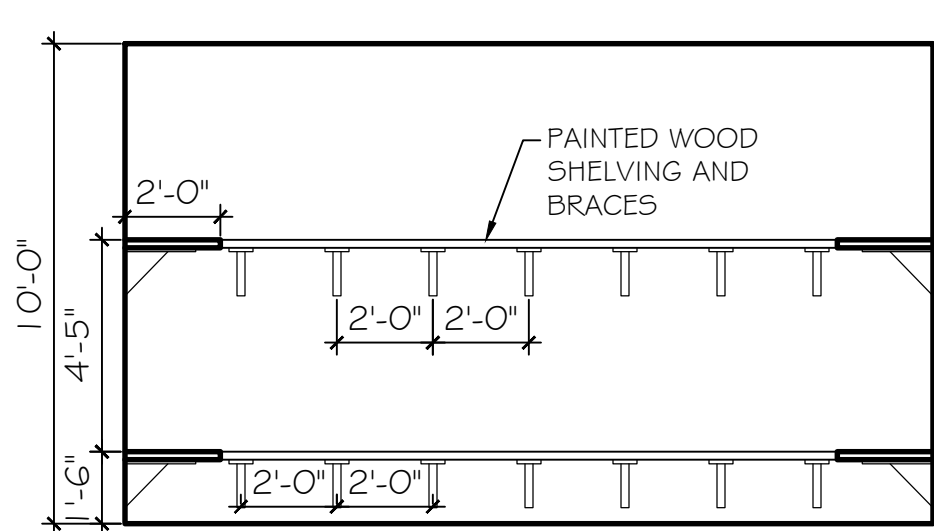
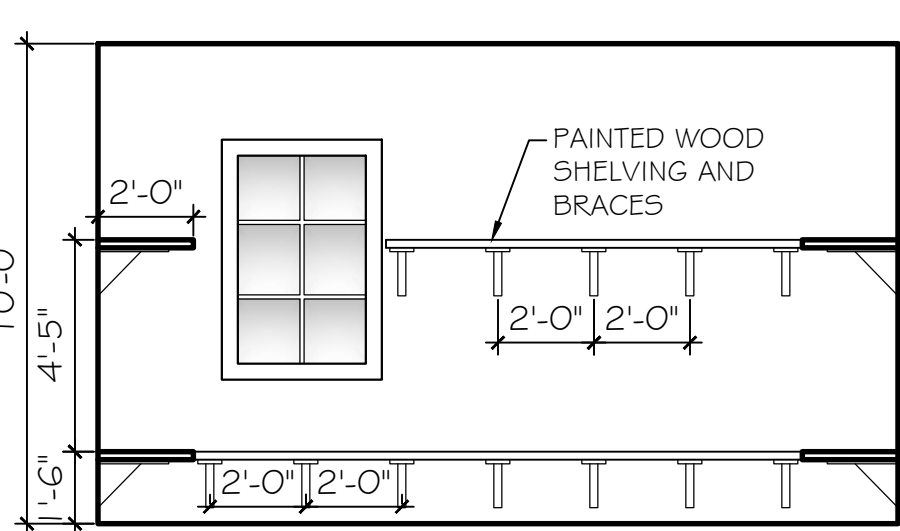
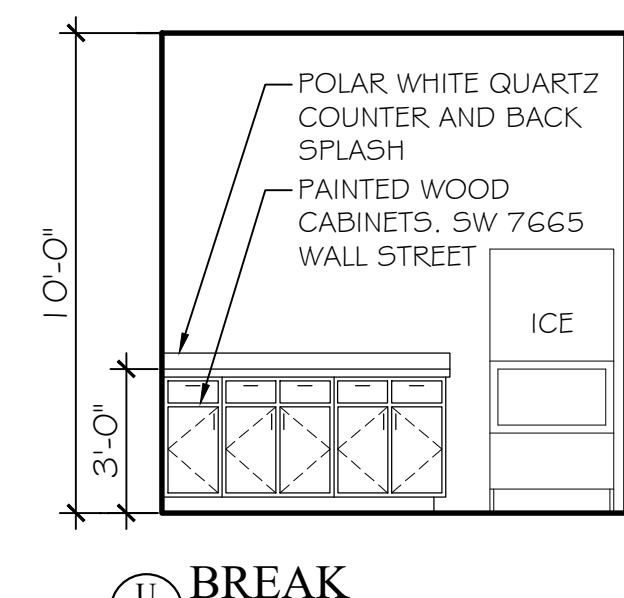
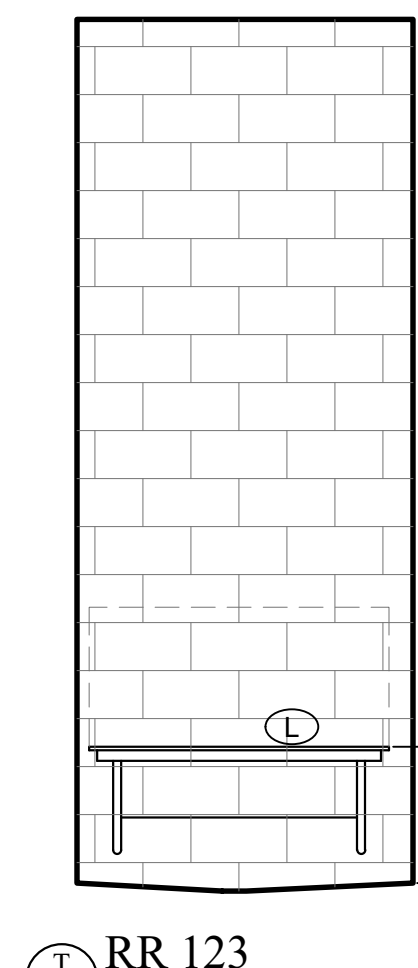
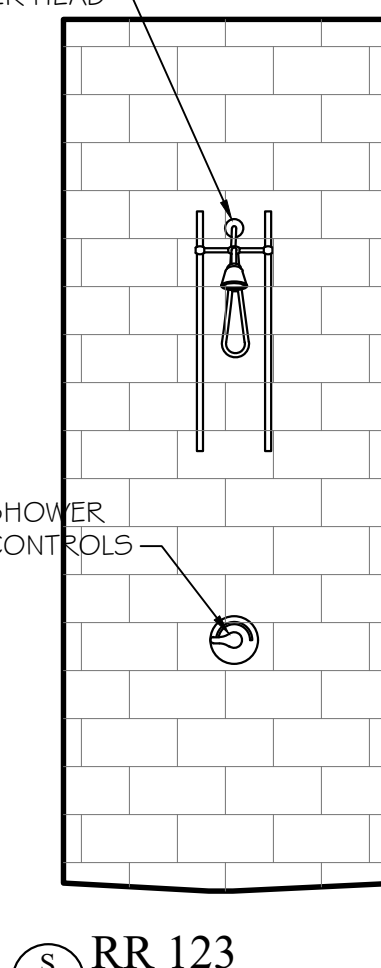
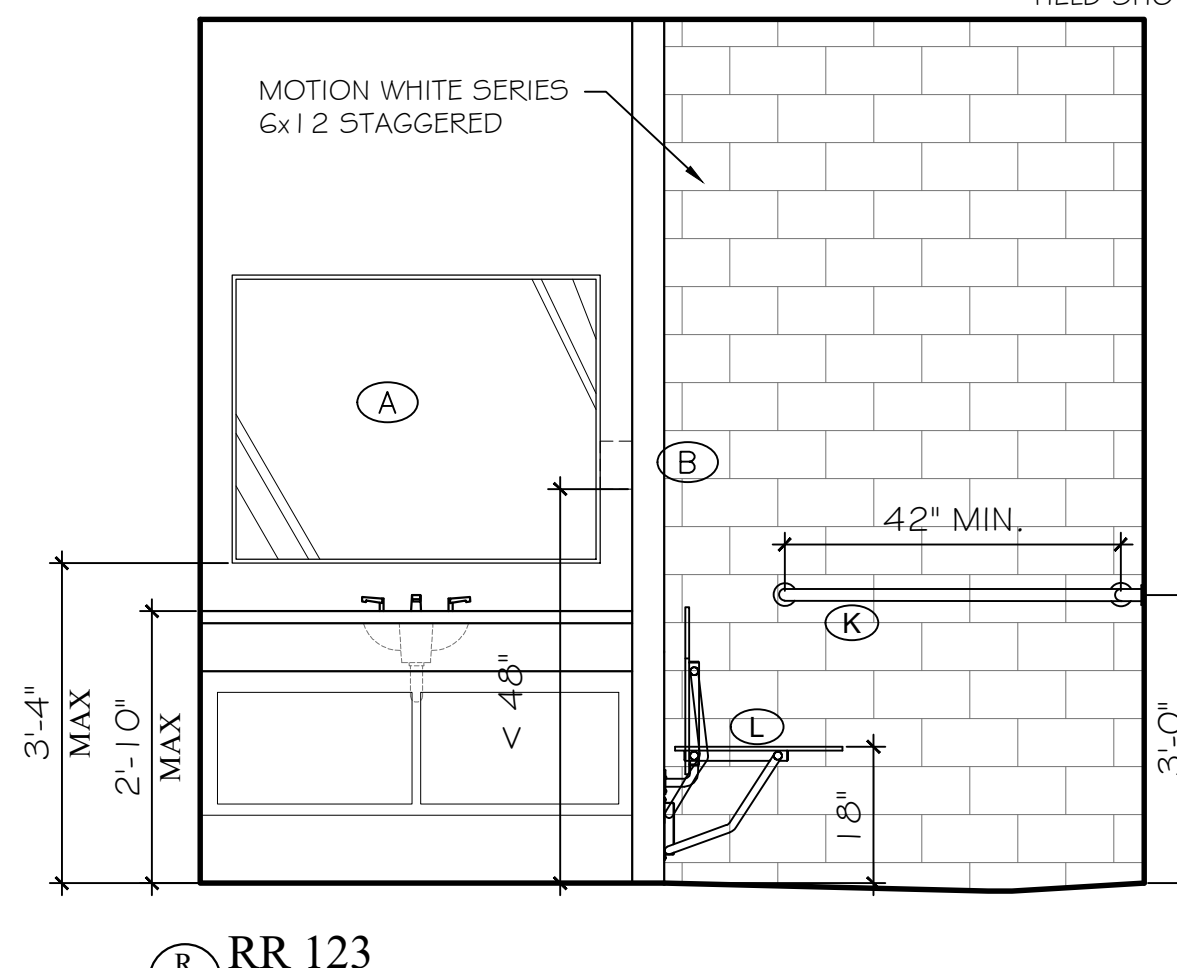
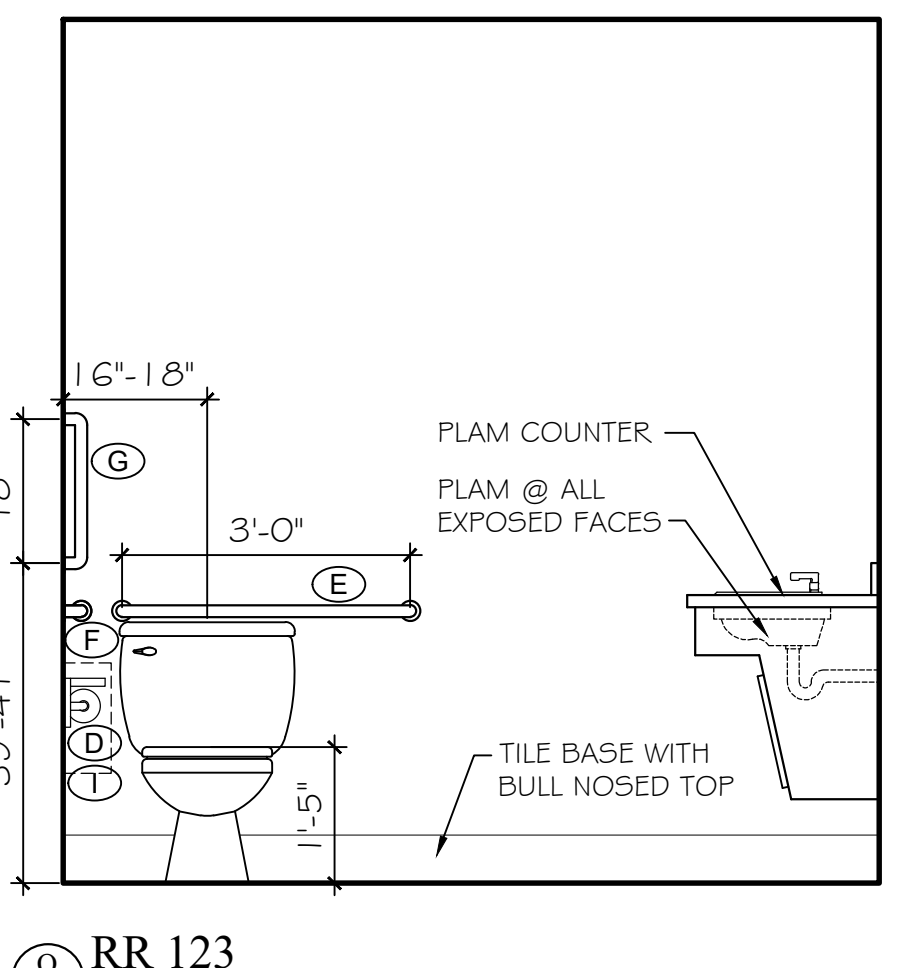
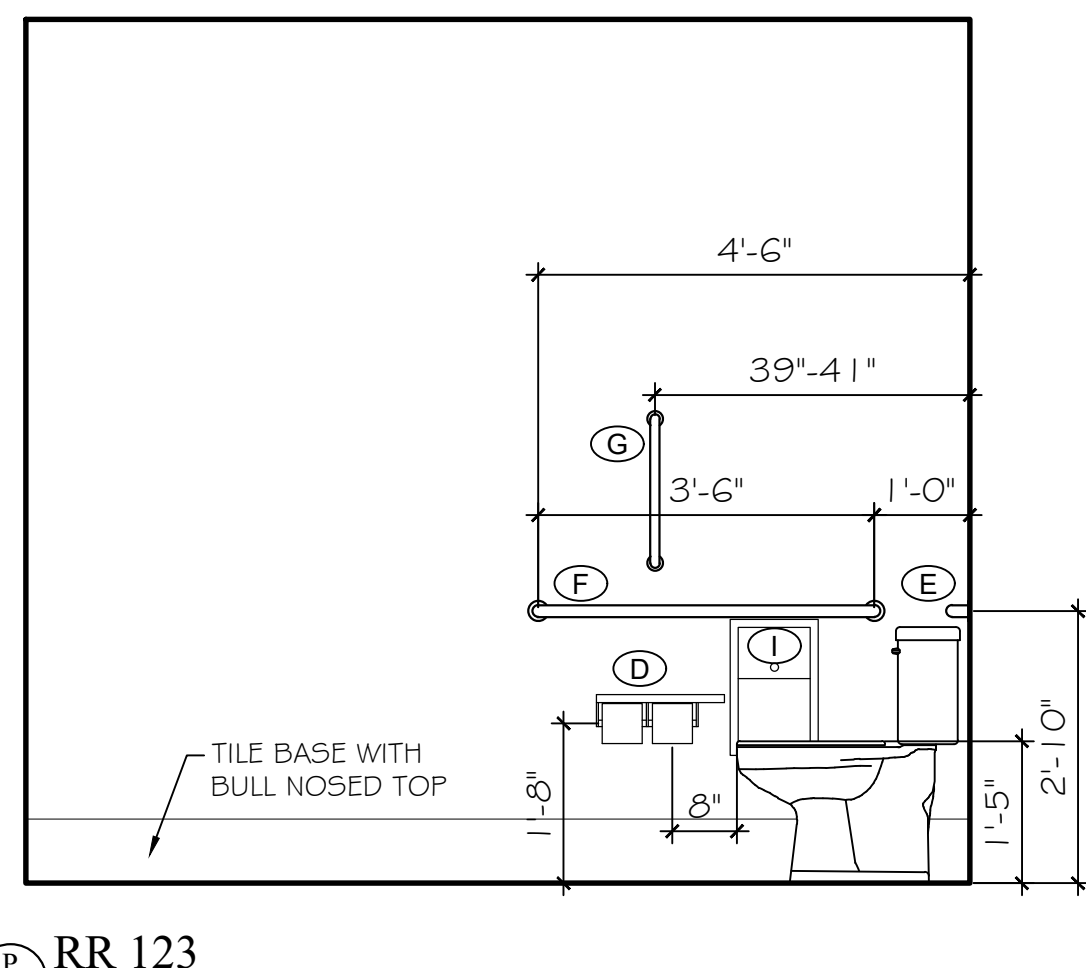
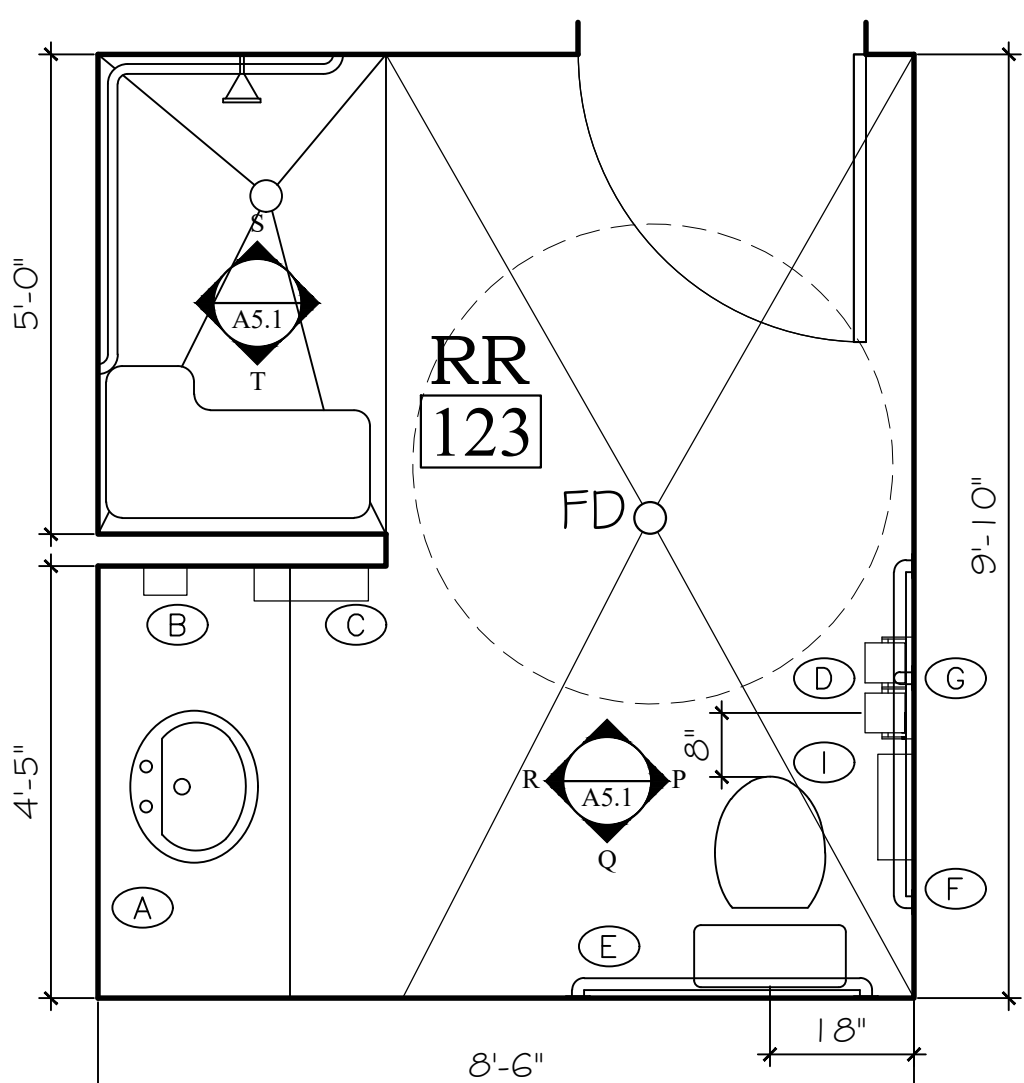
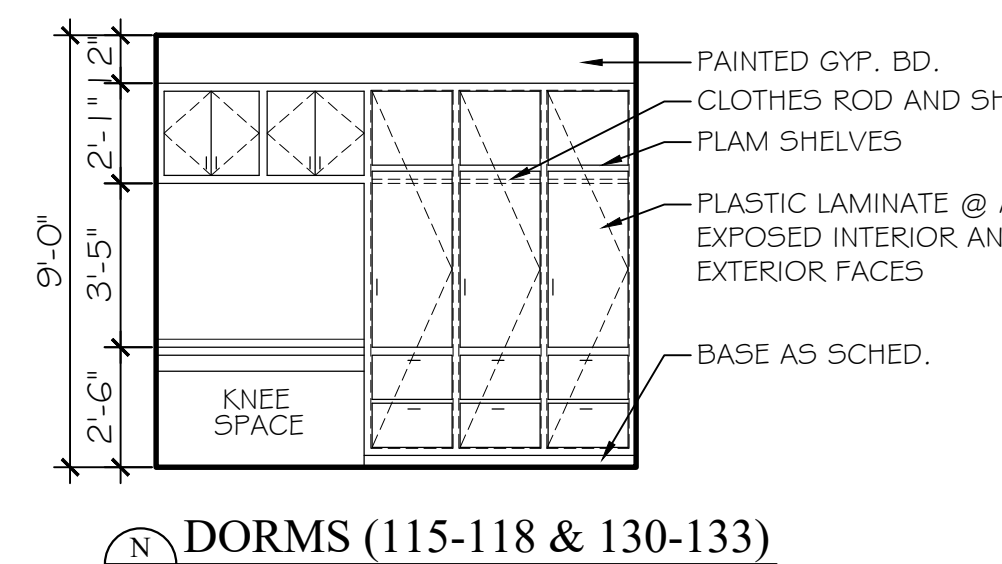
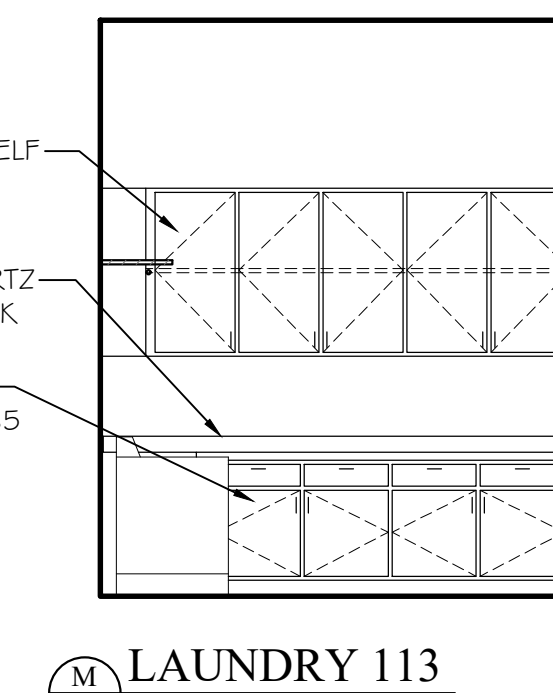
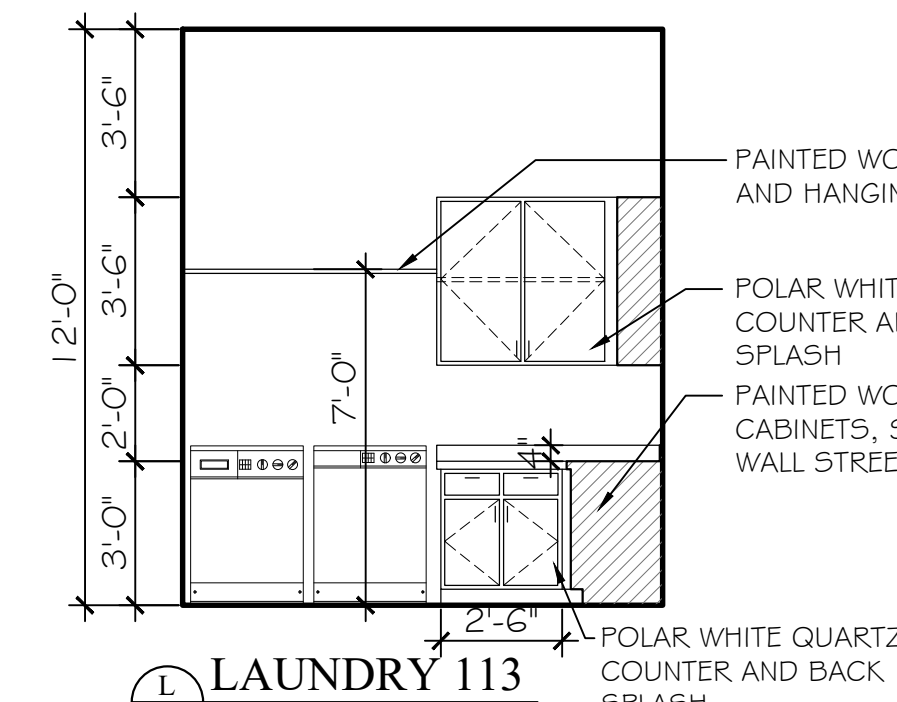
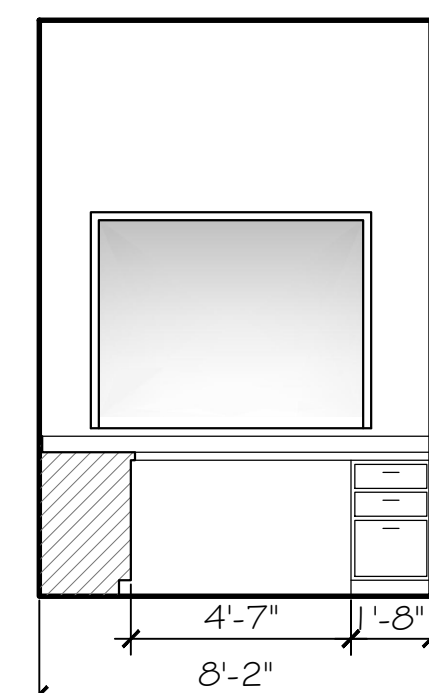
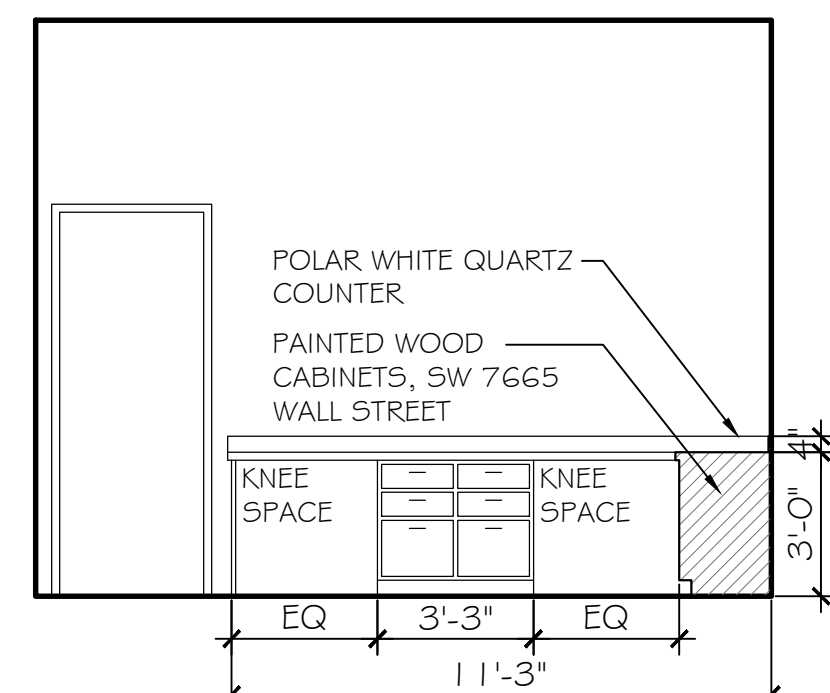
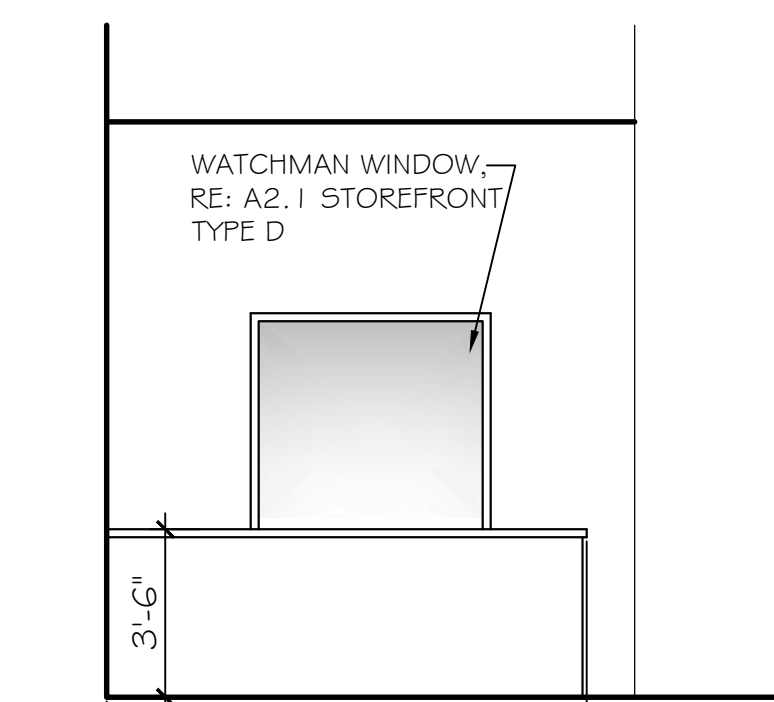
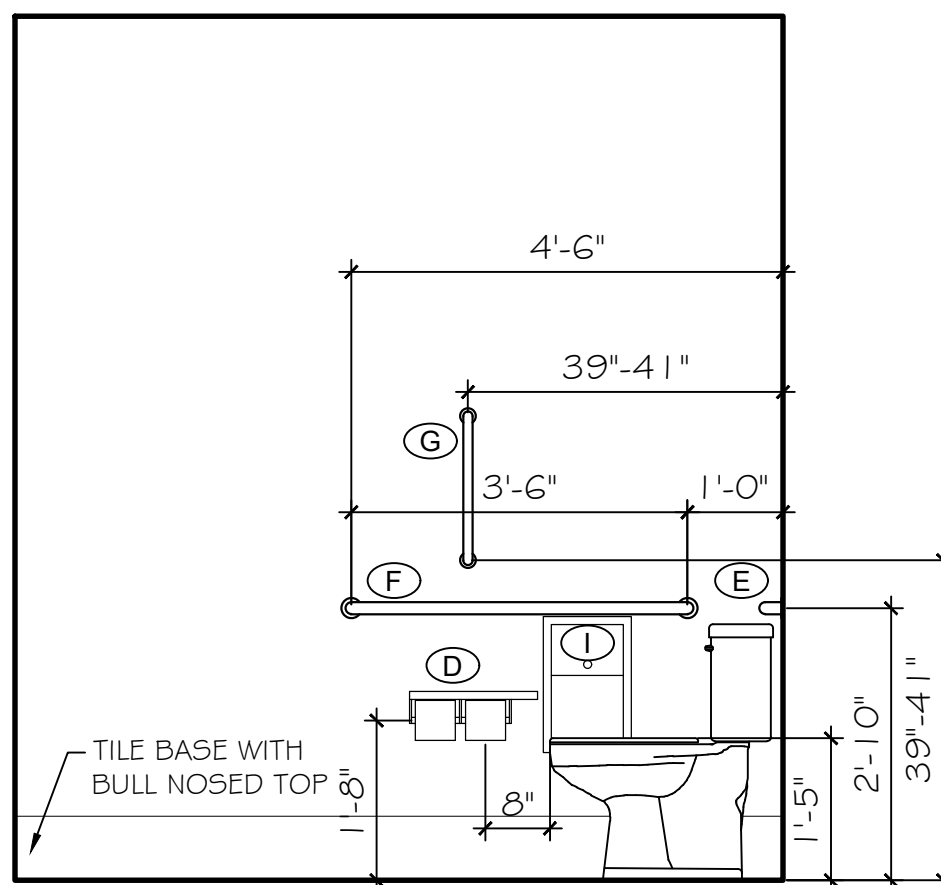
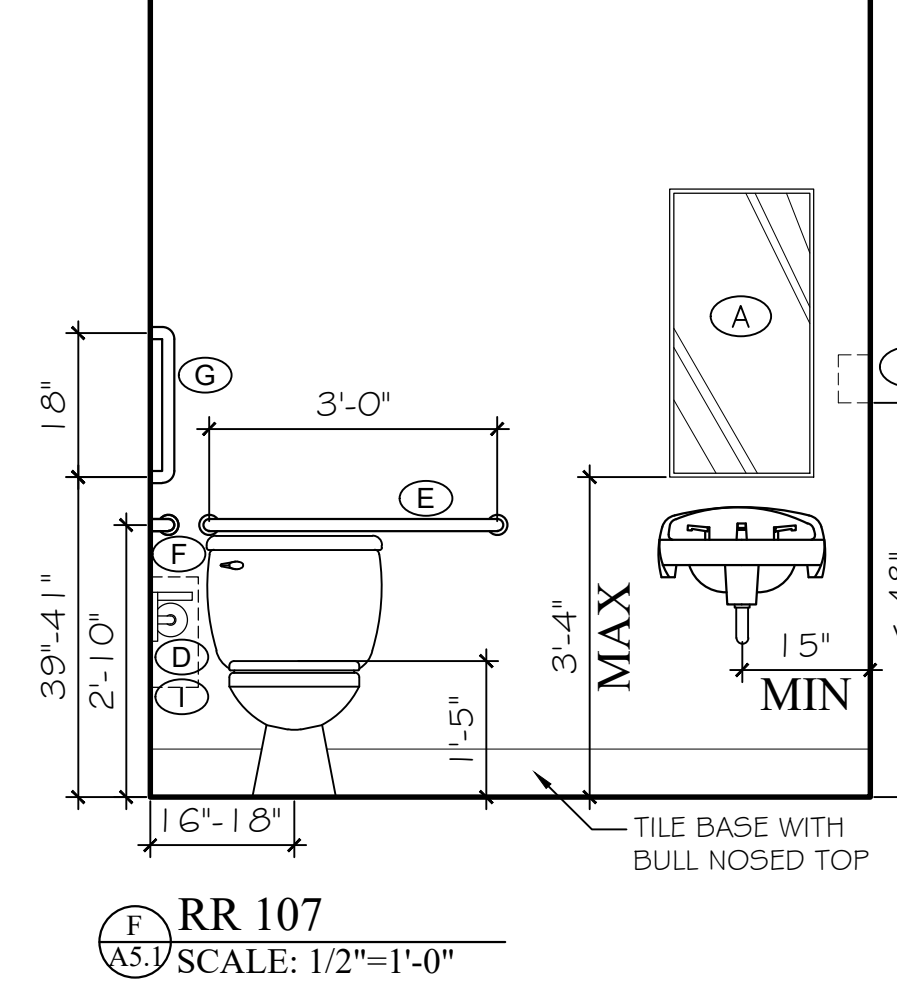
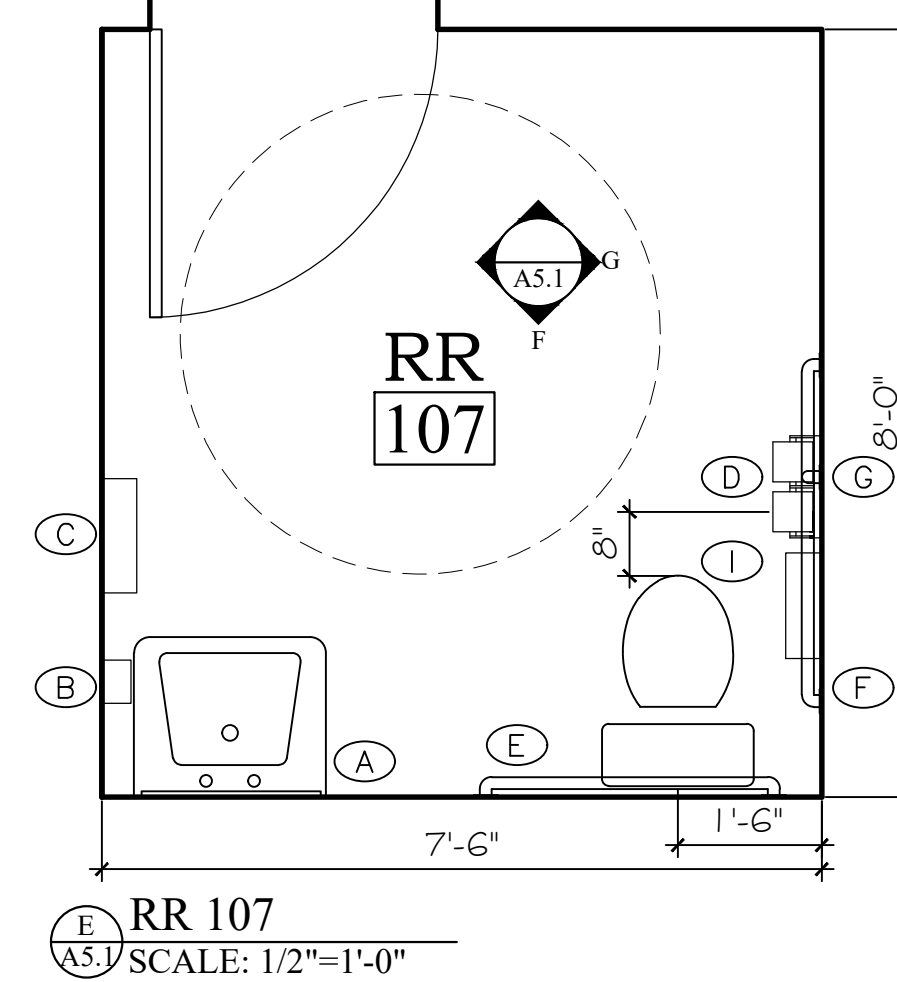
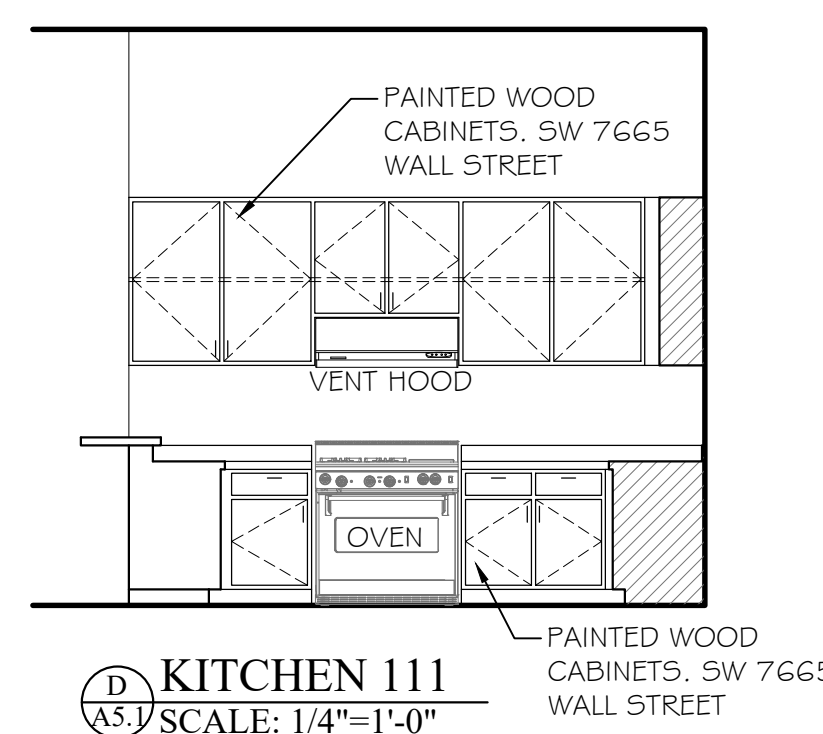
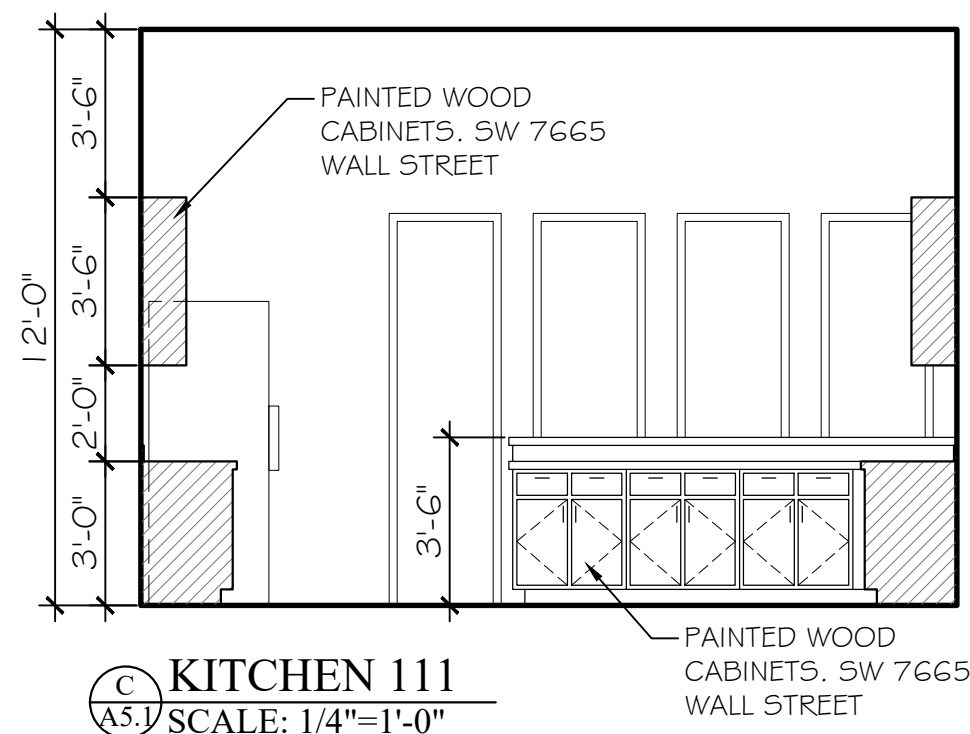
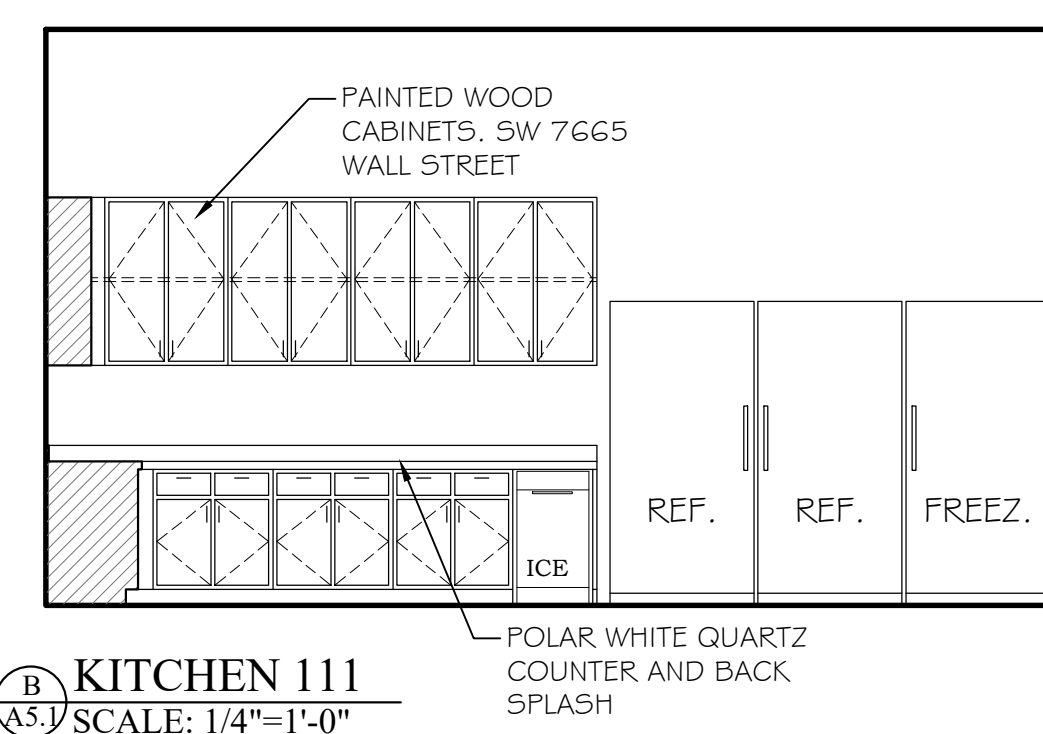
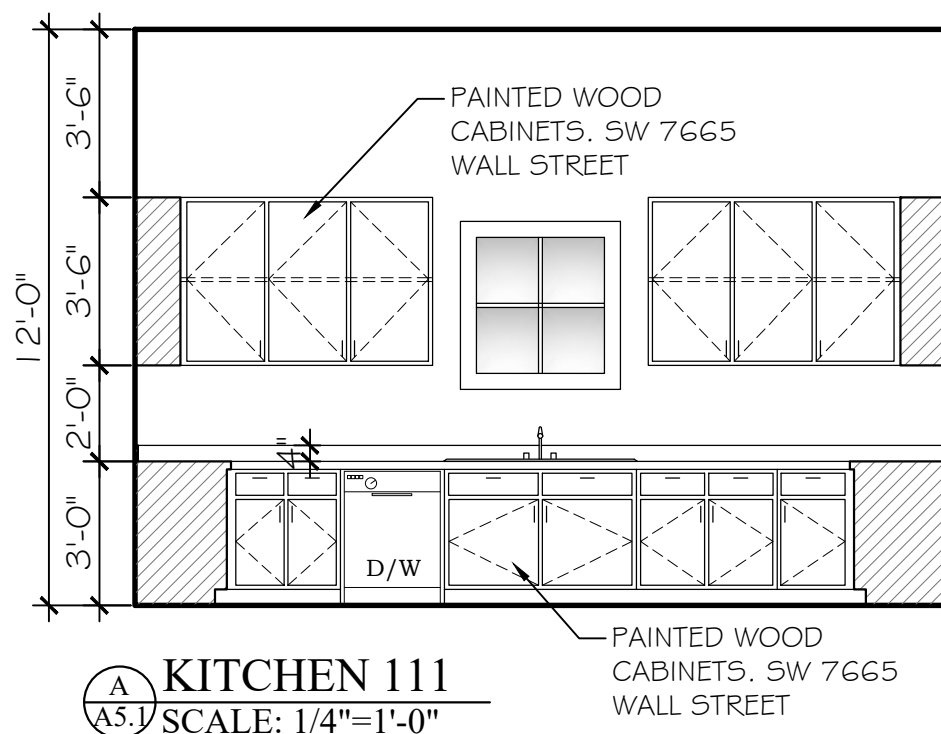
2 WALL SECTION
SCALE: 3/8" = 1'-0"



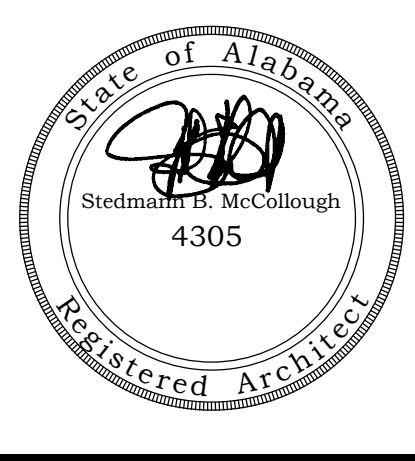
3 WALL SECTION
SCALE: 3/8" = 1'-0"



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



NOTE: ALL CABINETS MAY BE STAINED AT OWNER'S OPTION, IN LIEU OF PAINTED



ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: CLT
CHECKED: SBM
DATE: 2021.11.01
REVISION:

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

SHEET NO.:

A5.1

INTERIOR ELEVATIONS



ORANGE BEACH
FIRE STATION NUMBER 5
 ORANGE BEACH ALABAMA

JOB NO.:
 DRAWN: TB
 CHECKED: VS
 DATE: 2021.11.01
 REVISION:
 SCALE: NOTED
 SHEET NO.:
P1.1
 NOTES, SCHEDULES AND DETAILS

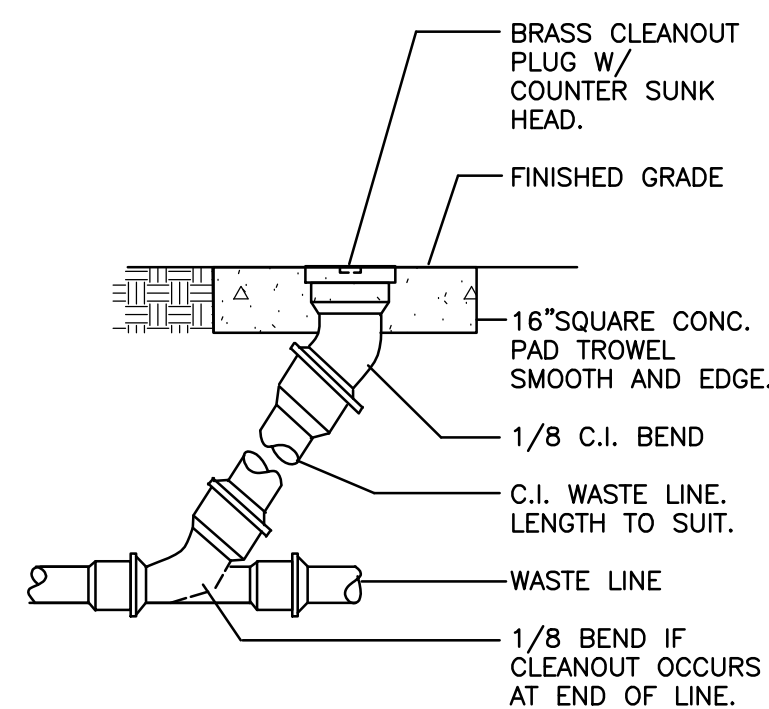
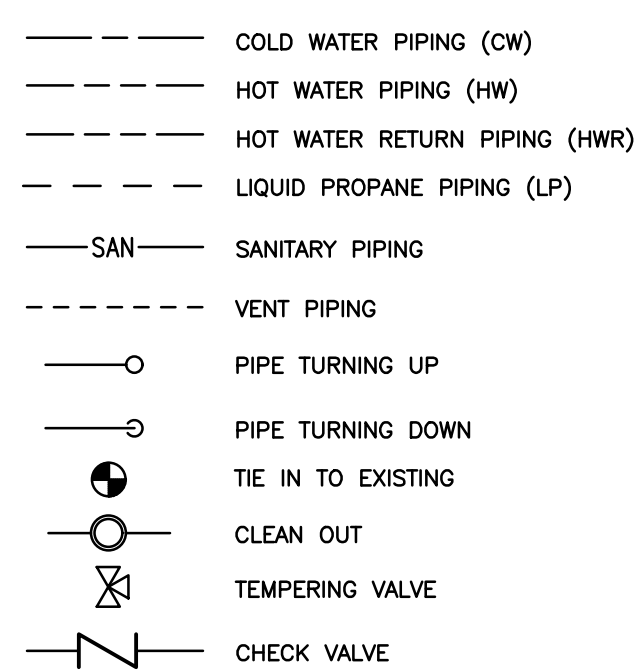
GENERAL PLUMBING NOTES:

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE SANITARY, VENTING AND DOMESTIC WATER SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2018 IPC, NFPA AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- PLUMBING PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.
- COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER/ARCHITECT.
- FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE WATER HAMMER ARRESTORS ON POTABLE WATER ROUGH-INS AS INDICATED ON DRAWINGS.
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- REFER TO SITE PLAN FOR ROUTING OF WATER AND SEWER.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE AS FOLLOWS:
 - LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER.
 - LINES ABOVE GRADE SHALL BE SCH 80 PVC AND CPVC.
 - FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.
 - ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.
 - EQUIPPED WITH SHOCK ABSORBERS AS REQUIRED.
- PLUMBING CONTRACTOR SHALL FURNISH & INSTALL SHUT-OFF VALVES TO ALL FIXTURES NOT OTHERWISE EQUIPPED.
- ALL WASTE PIPING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM D-1785. PIPING SMALLER THAN 3" SHALL BE LAID OUT AT 1/4" PER FOOT GRADE. PIPING 3" AND LARGER SHALL BE LAID OUT AT 1/8" PER FOOT GRADE. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON.
- ALL WATER LINES, BOTH HOT AND COLD, SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.
- VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.
- COORDINATE ALL EXTERIOR WALL PENETRATIONS WITH INSULATED CONCRETE FORM (ICF) CONTRACTOR. ALL EXTERIOR PENETRATIONS MUST BE SLEEVED AND SEALED TO MEET REQUIREMENTS OF ICF MANUFACTURER.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. ENSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.
- MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE.
- INSULATE HOT WATER MAINS AND RETURN ONLY.

FIXTURE CONNECTION NOTES:

- CONNECT TO PLUMBING FIXTURES AND EQUIPMENT PROVIDED UNDER THIS AND OTHER SECTIONS OF SPECIFICATION, ARCHITECTURAL DRAWINGS, AND MANUFACTURER'S SHOP DRAWINGS. PROVIDE ROUGH-IN CONNECTION AS SHOWN IN DRAWINGS.
- USE FIXTURE SCHEDULE AND DETAILS ON DRAWINGS OR MANUFACTURER'S SHOP DRAWINGS FOR CONNECTION SIZES TO FIXTURES.
- PROVIDE SEPARATE P-TRAP FOR EACH FIXTURE, FLOOR DRAIN, AND PIECE OF EQUIPMENT.
- PROVIDE PCV P-TRAPS FOR UNDER FLOOR DRAINS.
- MOUNT FIXTURES RIGID TO WALLS AS SHOWN ON DRAWINGS OR DETAILS.
- PROVIDE OUTLET DEVICES WHICH LIMIT FLOW OF HOT WATER TO LAVATORIES AND HAND SINKS TO A MINIMUM OF 0.5 GPH AND SIZED AS RECOMMENDED BY MANUFACTURER AND AS REQUIRED BY ASHRAE STANDARD 90-75, PARAGRAPH 7.7.2, LOCAL AND STATE ENERGY CODES.
- INSTALL LAVATORIES AND HAND SINKS WITH A MINIMUM OF 4" CLEARANCE ON EACH SIDE FROM WALL OR PARTITION.
- COORDINATE DIMENSIONS REQUIRED FOR MINIMUM FIXTURE CLEARANCE WITH OTHER DIVISIONS.
- INSTALL APPROVED CAULKING AROUND JOINTS AT FIXTURES MOUNTED ON WALL OR FLOOR.
- ALL DRAINS LOCATED WITHIN KITCHEN AREAS SHALL BE CONNECTED BY INDIRECT WASTE FIXTURE(S). FLOOR MOUNTED GREASE TRAP SHALL BE UTILIZED UNDER FOOD PREP SINK.

PLUMBING SYMBOL LEGEND



CLEANOUT DETAIL

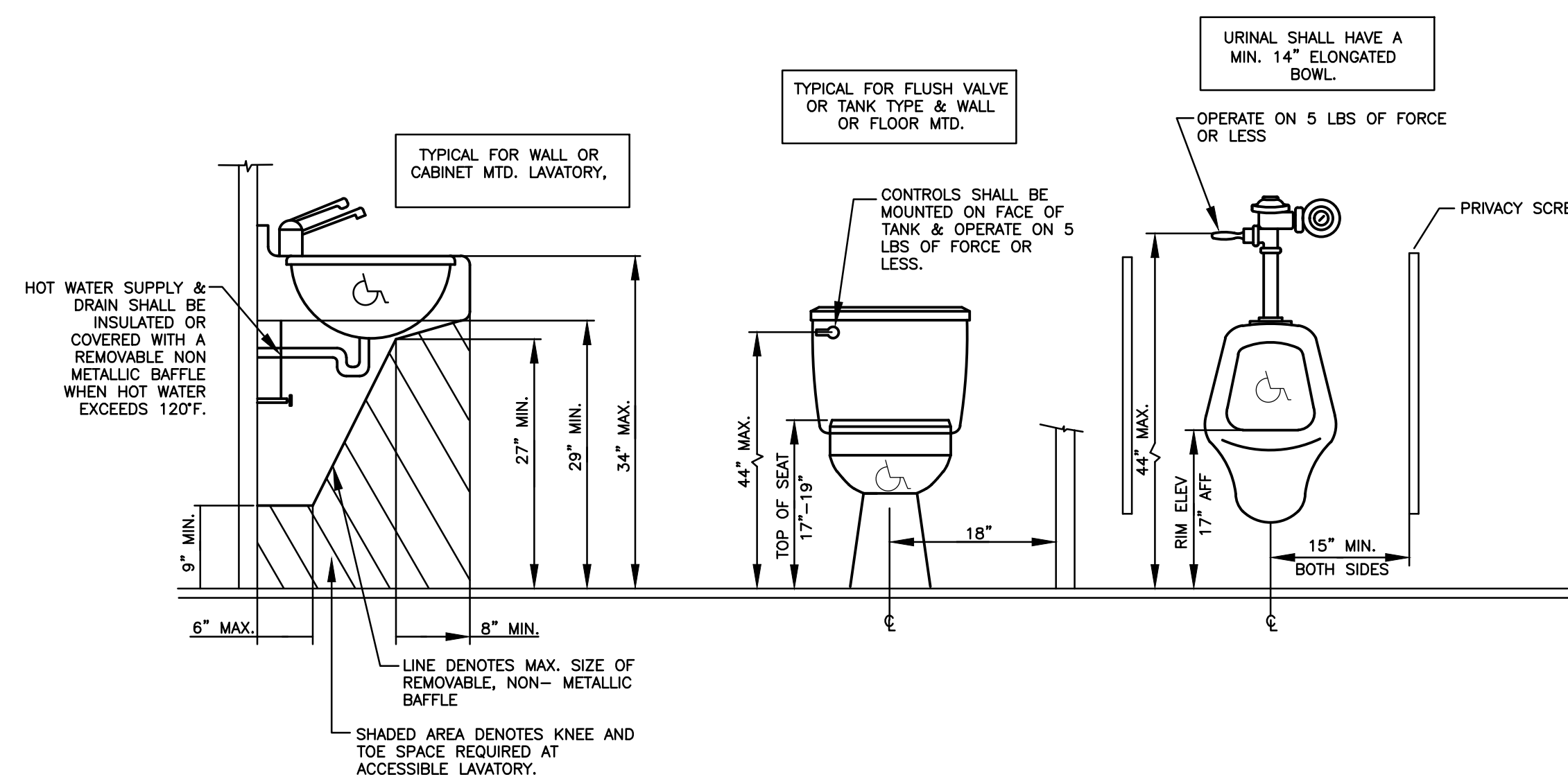
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PLUMBING FIXTURE SCHEDULE	
WC-1	ADA WATER CLOSET, ZURN ECOVANTAGE SERIES Z5555, FLOOR MOUNTED FLUSH TANK, ELONGATED, LOW CONSUMPTION, HIGH PERFORMANCE SIPHON JET W/3" FLUSH VALVE, ZURN Z59555S-EL OPEN FRONT SEAT WITHOUT COVER; ZURN Z8800-CR STOP WITH FLEX. CLOSET RISER. MOUNT FIXTURE AT ADA HEIGHT WITH RIM AT 16-3/4" AFF. CONNECTIONS: CW 1/2", WASTE 3", VENT 2" MIN.
LV-1	ADA LAVATORY, SELF RIMMING, COUNTER MOUNTED - AMERICAN STANDARD RONDALYN SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; AMERICAN STANDARD STRATTON FAUCET WITH LEVER HANDLES, POP-UP DRAIN, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING
LV-2	ADA LAVATORY, WALL MOUNTED - AMERICAN STANDARD LUCERNE SERIES WITH VITREOUS CHINA CONSTRUCTION AND 4" FAUCET CENTERS; AMERICAN STANDARD STRATTON FAUCET WITH LEVER HANDLES, ADA GRID STRAINER; ADA P-TRAP PROTECTORS, CONNECTIONS: CW 1/2", HW 1/2", WASTE 1 1/4". MOUNT AT 34" TOP OF RIM FOR ADA REQUIRED MOUNTING HEIGHT.
MS-1	MOP BASIN - ZURN Z1996-24 COMPOSITE MOP SINK WITH INTEGRAL 3" DRAIN; Z1996-SF SERVICE FAUCET WITH PALE HOOK, -SDL DRAIN, STRAINER & LINT BASKET, -MH MOP HANGER, -HH HOSE & BRACKET, -BV VINYL BUMPER GUARDS, -WG SS WALL GUARD. COORDINATE WITH GENERAL CONTRACTOR TO INSURE THAT 2" THICK BLOCKING IS PROVIDED IN WALL FOR FAUCET MOUNTING. CONNECTIONS: CW 1/2", HW 1/2" (140°F), WASTE 3", VENT 2" MIN.
SK-1	KITCHEN SINK - ELKAY LUSTERSTONE 46" LTR46224, STAINLESS STEEL, 3 BOWL, COUNTER INSERT MOUNT INSTALLATION, FAUCET WITH PULL-OUT SPRAY. GARBAGE DISPOSAL 3/4HP, CONNECTION: CW 1/2", HW 1/2", WASTE 2", VENT 1 1/2" MIN.
SH-1	SHOWER/TUB . CONNECTIONS: CW 1/2", HW 1/2", WASTE 2", VENT 2" MIN.
UB-1	UTILITY BOX, WASHING MACHINE UTILITY BOX, QUARTER TURN HOT AND COLD WATER VALVES, WASTE CONNECTION CONNECTIONS: CW 1/2", HW 1/2", WASTE 2", VENT 2" MIN.
UB-2	UTILITY BOX, ICE MAKER UTILITY BOX, QUARTER TURN COLD WATER VALVE, CONNECTIONS: CW 3/8"
FD-1	FLOOR DRAIN, J.R. SMITH 2005/2010 SERIES COATED CAST IRON BODY WITH ADJUSTABLE COLLAR, COMBINATION MEMBRANE CLAMP, AND TRAP PRIMER CONNECTION. PROVIDE WITH 6" ROUND, POLISHED NICKEL BRONZE STRAINER.
CO	CLEANOUT, JR SMITH 4125 SERIES, ROUND NICKEL BRONZE TOP, ADJUSTABLE BODY, WATER TIGHT COVER.
WCO	WALL CLEANOUT, JR SMITH 4420, SIDEWALL ACCESS, TAPER THREAD PLUG WITH ROUND ACCESS COVER.
HB-1	HOSE BIBB, OUTDOOR TYPE, ZURN Z-1320 WITH CERAMIC DISC, NON-FREEZE, ENCASED, ANTI-SIPHON, AUTO DRAIN, S.S. BOX & HINGED COVER, KEY LOCK, ALL BRONZE INTERIOR PARTS. COVER STAMPED "WATER".
EW-1	ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED - OASIS PG8SBFSL; BOTTLE FILL, ANTIMICROBIAL COPPER PUSH PADS, MCGUIRE 8902 TRAP; BRASSCRAFT 1912-A SUPPLY. MOUNT WITH LOWER SPOUT AT 36" AFF. CONNECTIONS: CW 1/2", WASTE 2", VENT 2" MIN.
EW-2	ELECTRIC WATER HEATER, 3/4" INLET OUTLET CONNECTIONS, SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES. LAVATORIES SHALL BE EQUIPPED WITH INDIVIDUAL TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI.

WATER HEATER SCHEDULE													
TAG	ELECTRIC DATA				HYDRONIC DATA					BASIS OF DESIGN		WEIGHT LBS	NOTES
	FLA	MOC	VOLT	KW	EWT	LWT	RATE OF RECOVERY	RISE OF RECOVERY	CAPACITY (GAL)	MFGR	MODEL		
	AMPS	AMPS	PHASE		DEG.F	DEG.F	GPM	DEG. F					
EW-1	29	40	208/1	6.0	60	140	0.5	80	120	RHEEM	ELD120-TB	265	ALL

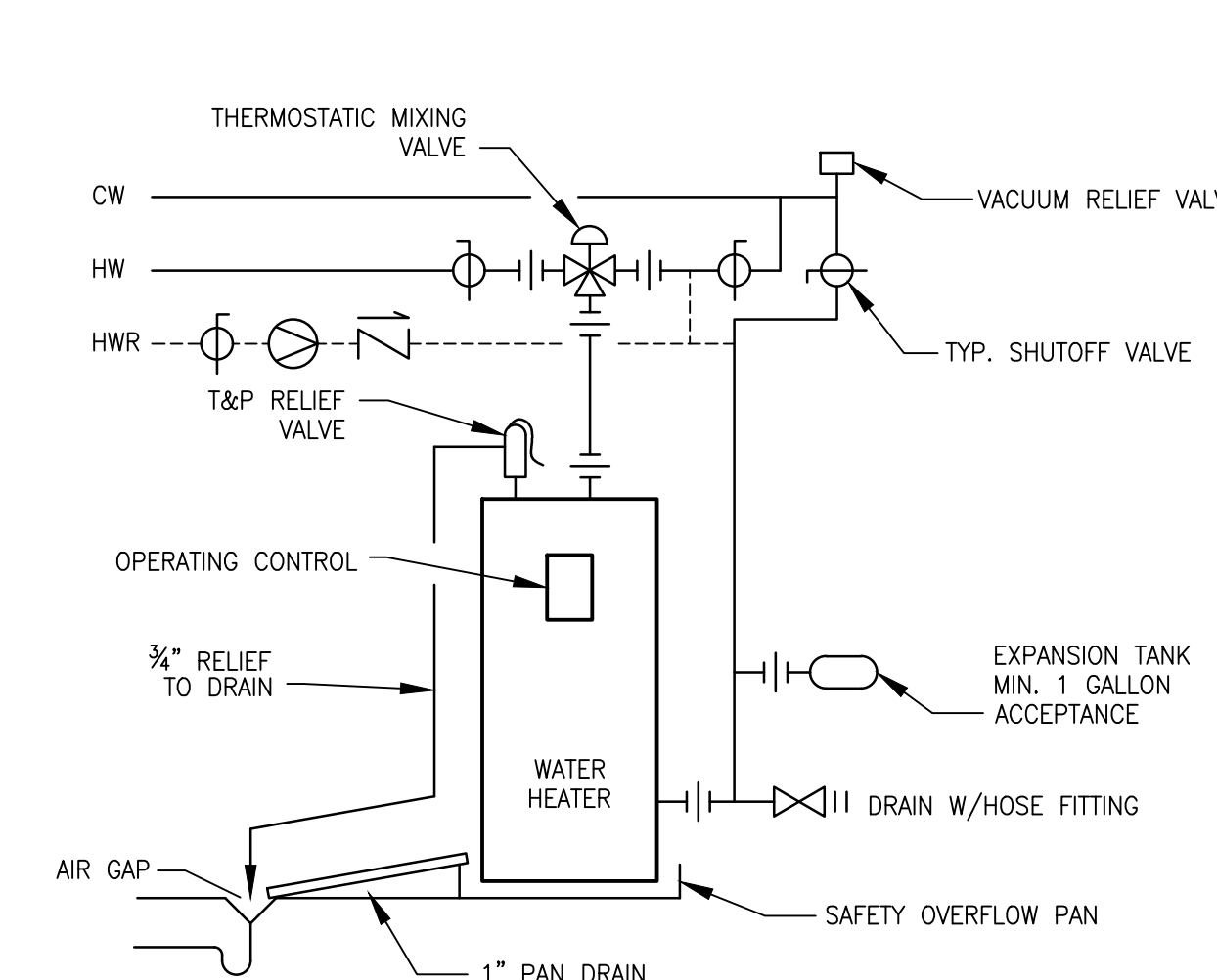
NOTES:
 1. 1" INLET OUTLET CONNECTIONS
 2. SUPPLY 140°F WATER TO MOP SINK AND 110°F WATER TO LAVATORIES. LAVATORIES SHALL BE EQUIPPED WITH INDIVIDUAL TEMPERATURE LIMITING DEVICES THAT CONFORM WITH ASSE 1070.
 3. OPERATING PRESSURE BETWEEN 20PSI TO 150 PSI

PLUMBING PUMPS SCHEDULE									
TAG	MANUFACTURER --- MODEL No.	TYPE / CONFIGURATION	SERVICE	FLOW GPM	TOTAL HEAD FT./PSI	MOTOR POWER	PUMP RPM	ELECTRICAL	ACCESSORIES / REMARKS
RP-1	BELL & GOSSETT #NBF-33	CENTRIFUGAL / IN-LINE	HOT WATER CIRCULATION	10.0	5'	125W	2950	120/1/60	ALL BRONZE CONSTRUCTION, PROVIDE CHECK VALVE DOWN STREAM OF PUMP



ADA PLUMBING FIXTURE INSTALLATION

SCALE: NOT TO SCALE



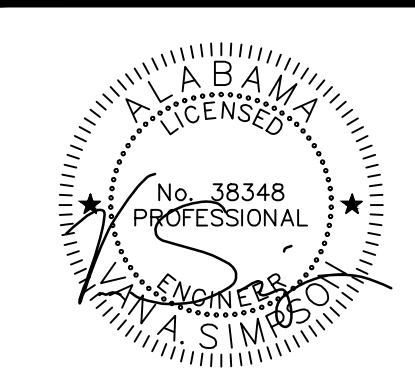
WATER HEATER DETAIL

SCALE: NOT TO SCALE



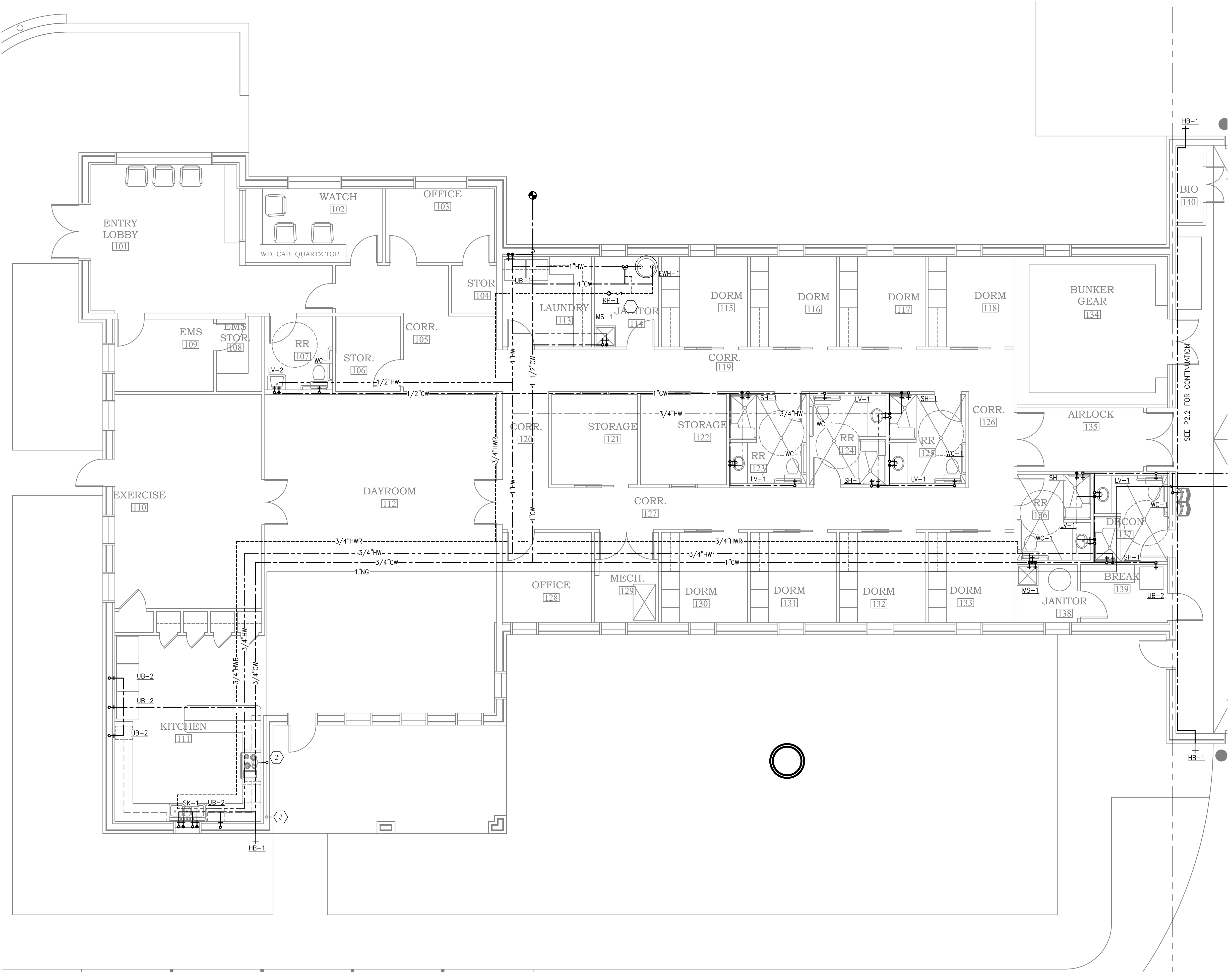


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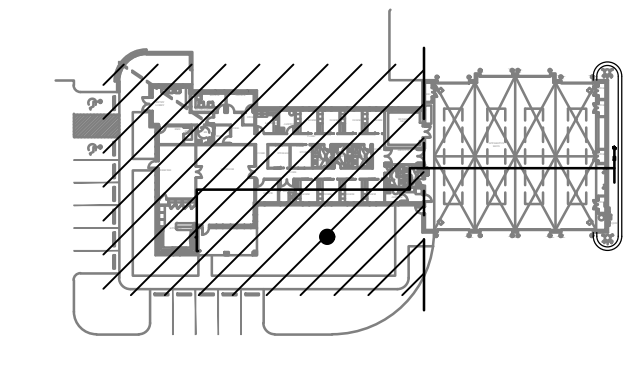
11/01/21

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

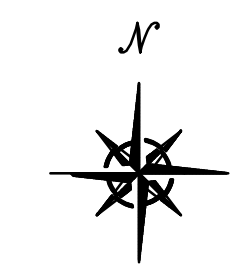


KEYED NOTES:

- 1 LOCATE THE RECIRCULATION PUMP IN A ACCESSIBLE LOCATION WITHIN THE JANITOR CLOSET.
- 2 NATURAL GAS CONNECTION TO OVEN. PROVIDE SHUTOFF BALL VALVE.
- 3 NATURAL GAS CONNECTION TO OUTDOOR GRILL. STUB OUT OF WALL AND PROVIDE SHUTOFF BALL VALVE.



KEY PLAN



PLUMBING PLAN
SCALE: 3/16"=1'-0"



JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

P2.1

PLUMBING PLAN
SHEET 1 OF 2



**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION:

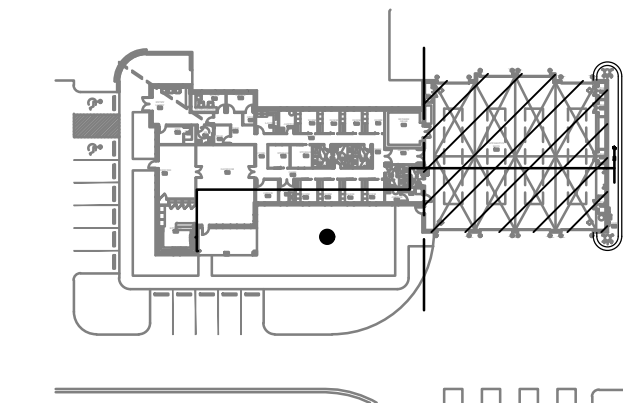
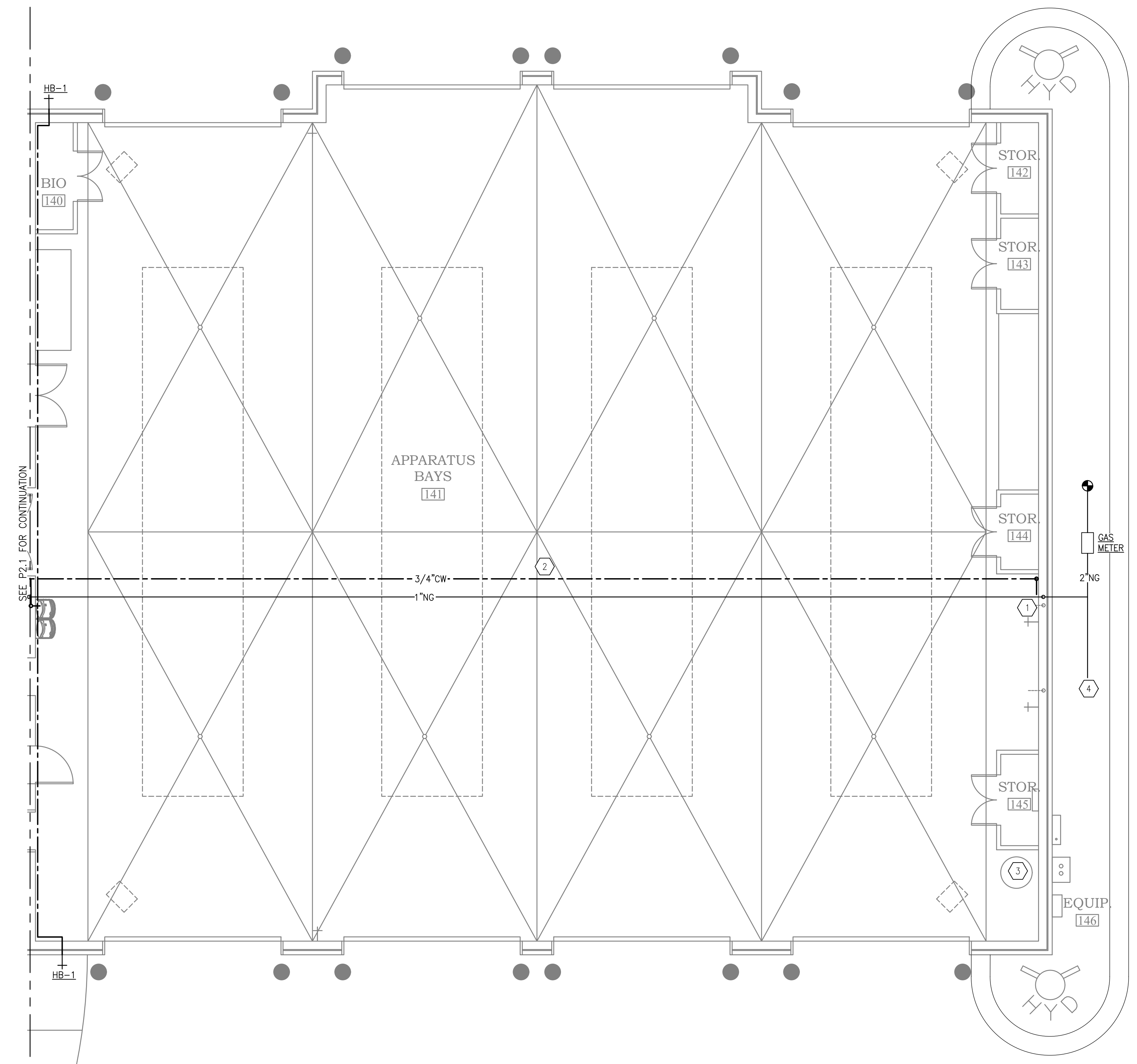
SCALE: NOTED

SHEET NO.:

P2.2
PLUMBING PLAN
SHEET 2 OF 2

KEYED NOTES:

- ① ROUTE 3/4" DOMESTIC WATER DOWN AND CAP FOR FUTURE USE.
- ② ROUTE 3/4" DOMESTIC WATER AND 1"NG TIGHT AGAINST CEILING STRUCTURE.
- ③ BASIS OF DESIGN: PROVIDE 7.5HP 240/1 80 GAL VERTICAL QUINCY AIR COMPRESSOR. QUINCY PART NUMBER 371CS80VCA
- ④ NATURAL GAS CONNECTION TO GENERATOR. PROVIDE SHUTOFF BALL VALVE.



KEY PLAN

PLUMBING PLAN
 SCALE: 3/16"=1'-0"



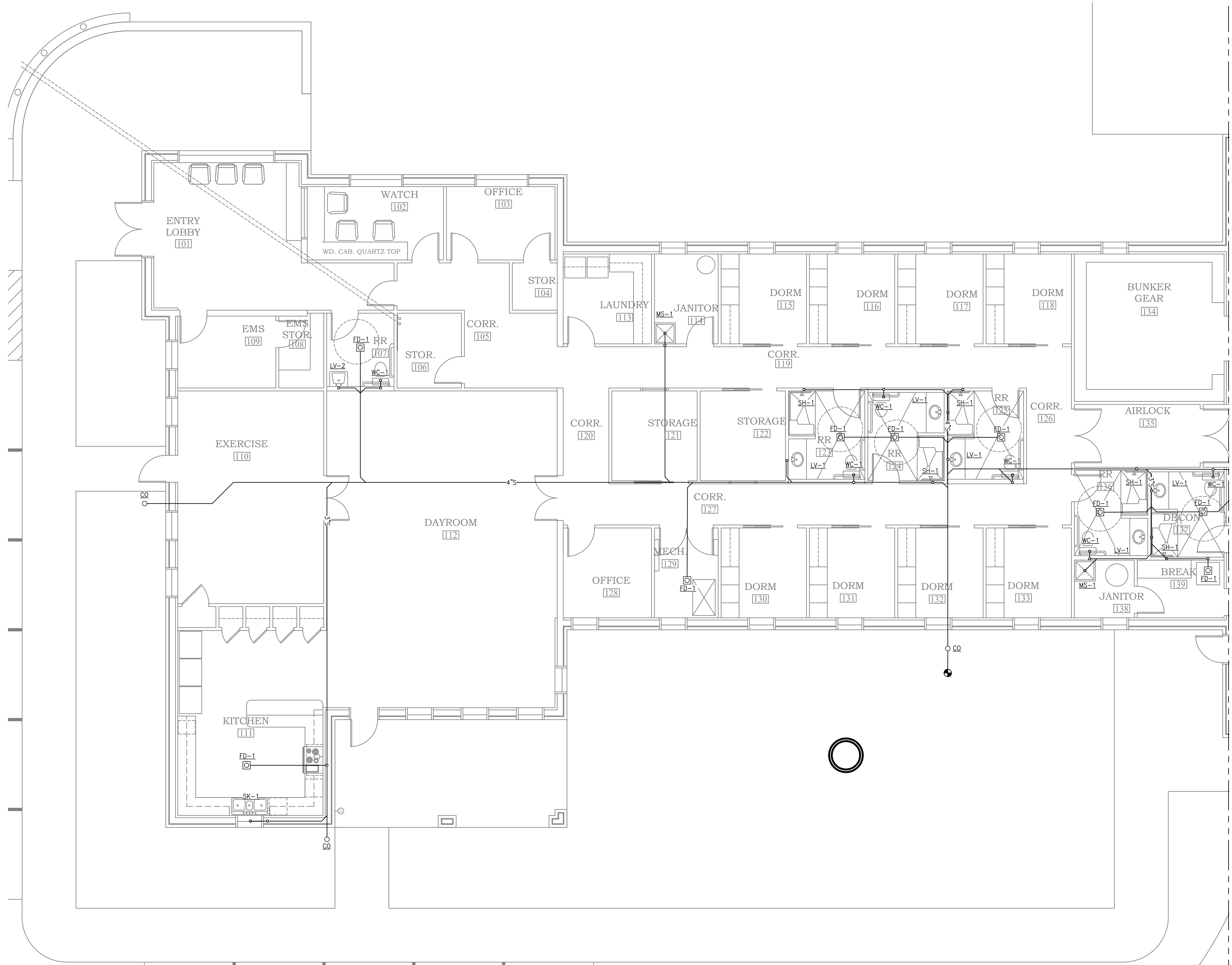


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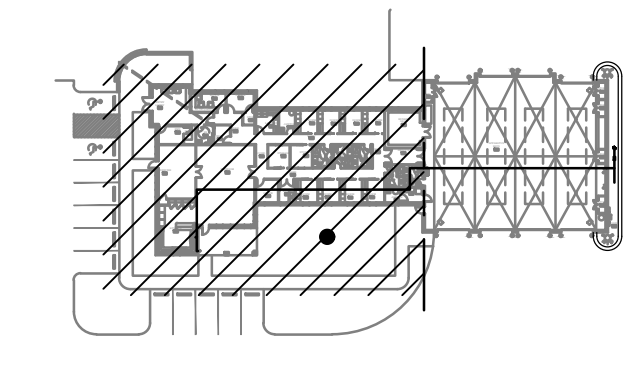


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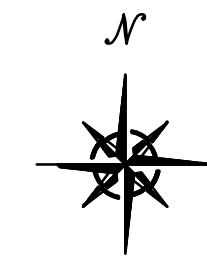
ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA



SEE P3.2 FOR CONTINUATION



KEY PLAN



SANITARY PLAN
SCALE: 3/16"=1'-0"



JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

P3.1

SANITARY PLAN
SHEET 1 OF 2



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ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

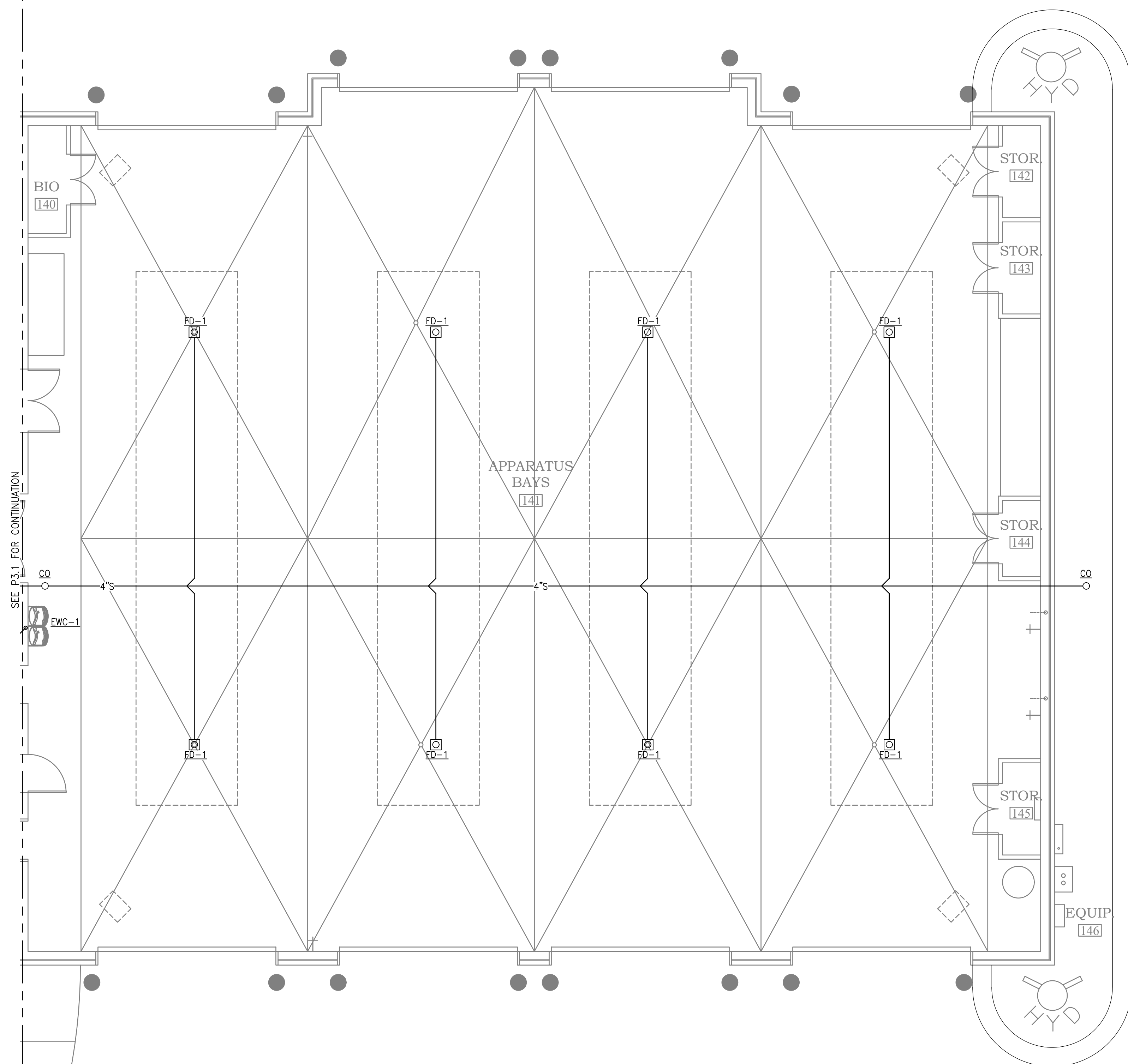
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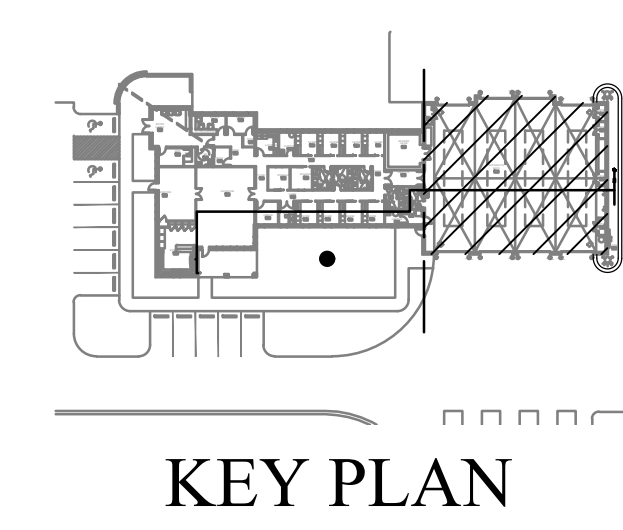
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P3.2

SANITARY PLAN
SHEET 2 OF 2



 **SANITARY PLAN**
SCALE: 3/16"=1'-0"



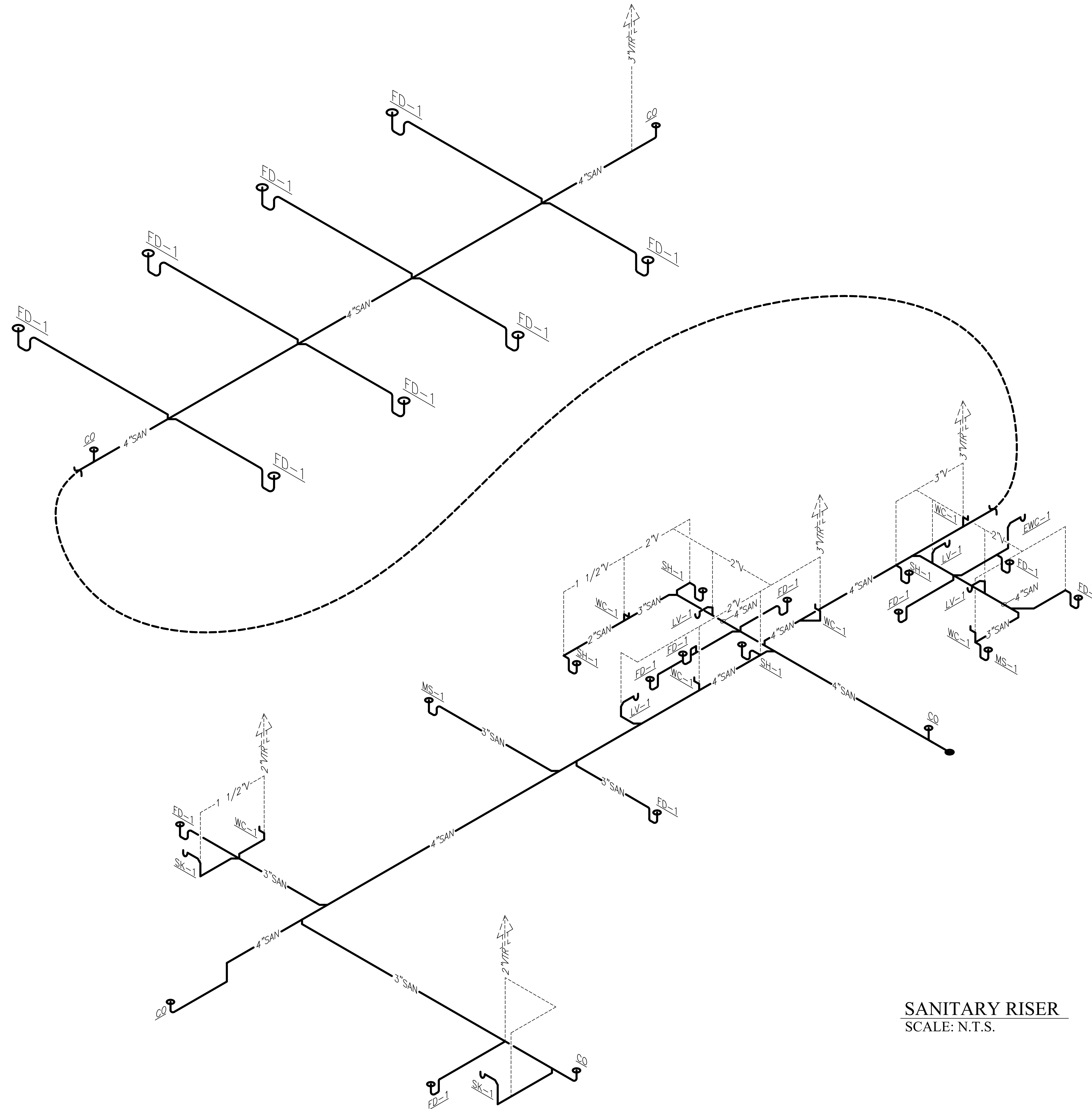


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11/01/21

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA



SANITARY RISER
SCALE: N.T.S.

JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

P3.3

SANITARY RISER



600 Azalea Rd. Mobile, AL 36689 (T) 251-480-4646 (F) 251-480-4645



ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH ALABAMA

JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION: 1

SCALE: NOTED

SHEET NO.:

M1.1
NOTES, DETAILS AND LEGENDS

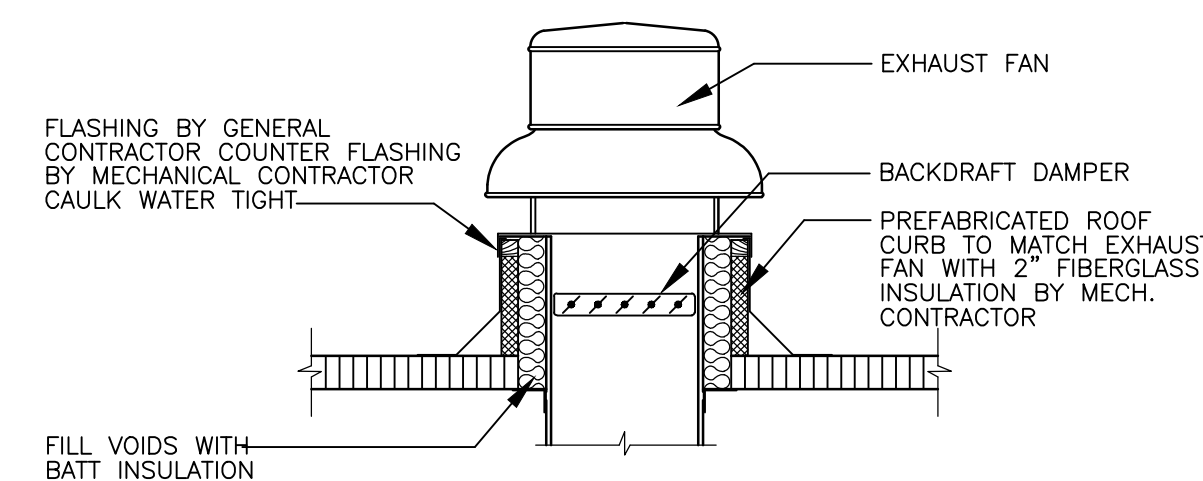
GENERAL HVAC NOTES

- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISHED APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- MECHANICAL CONTRACTOR TO PROVIDE GENERAL CONTRACTOR WITH AS-BUILT DRAWINGS, ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR SHALL BE MADE OF CONTINUOUS SHEET METAL AND SHALL BE FABRICATED IN ACCORDANCE WITH ASHRAE GUIDE AND SMACNA MANUAL LATEST EDITIONS.
- DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATION CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCT TYPE SHALL BE APPROVED BY APPLICABLE CODE AND MECHANICAL ENGINEER.
- ALL RETURN AND SUPPLY AIR DUCTWORK WITHIN 20'-0" OF AIR HANDLING EQUIPMENT SHALL BE DUCT LINED FOR SOUND ATTENUATION. REMAINING DUCT SHALL INSULATED WITH MINERAL FIBER DUCT WRAP.
- ALL RETURN AND SUPPLY AIR DUCTWORK, THAT IS NOT LINED, SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 1.5 LBS. DENSITY FOIL FACED FIBERGLASS INSULATION. DUCT DIMENSIONS SHOWN ARE INSIDE NET DIMENSIONS, ADD TO SHEET METAL SIZE FOR INSULATION. IN GENERAL, INSTALL DUCTWORK TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED OR REQUIRED BY FIELD CONDITIONS. COORDINATE EXACT MOUNTING HEIGHT IN FIELD WITH GENERAL CONTRACTOR. ROUND DUCTWORK IN CONDITIONED SPACE DOES NOT REQUIRE INSULATION UNLESS OTHERWISE NOTED.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BALANCING DAMPERS.
- FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 6'-0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
- ALL TEMPERATURE CONTROLS, FIRE ALARM COMPONENTS, EQUIPMENT NAMEPLATES, LABELS, OR COLOR CODED COMPONENTS SHALL BE MASKED DURING PAINTING TO PREVENT DAMAGE FROM OVER-SPRAY OR OBSCURING INFORMATION.
- ALL LOW VOLTAGE WIRING REQUIRED FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE POWER REQUIREMENTS FOR HVAC EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING.
- CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS BEFORE INSTALLATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- TEST & BALANCE ALL SUPPLY, RETURN & EXHAUST SYSTEMS ACCORDING TO CFM INDICATED ON PLANS. SUBMIT REPORT AS PER SPECIFICATIONS.
- ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC AND MAKE-UP AIR UNITS.
- IN THE EVENT THAT CERTAIN WORK REQUIRES INCIDENTAL DAMAGE TO THE BUILDING, FINISHES OR PROPERTY TO COMPLETE THE WORK, THE CONTRACTOR FURNISH ALL REPAIR NECESSARY TO DELIVER TO THE AFFECTED AREA BACK TO OWNER THAT MEETS OR EXCEEDS THE CONDITION PRIOR TO DAMAGE.
- COORDINATE ALL EXTERIOR WALL PENETRATIONS WITH INSULATING CONCRETE FORM (ICF) CONTRACTOR. THIS SHALL INCLUDE BUT NOT LIMITED TO DRYER VENT, EXHAUST DUCT, EXHAUST FANS, LOUVERS, OUTDOOR AIR INTAKE, CONDENSATE LINES, REFRIGERANT LINES, ELECTRICAL CONDUITS AND NATURAL GAS. ALL SLEEVES MUST BE SEALED AND MEET ALL REQUIREMENTS OF THE ICF MANUFACTURER.
- ALL AIR DISTRIBUTION SYSTEMS THAT SUPPLY AIR CAPACITY GREATER THAN 2000 CFM REQUIRE A SMOKE DETECTION SYSTEM MOUNTED IN THE SUPPLY SIDE UPSTREAM OF FIRST BRANCH. IN THE CASE WHERE SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATION A REMOTE ALARM AND TEST SWITCH SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION.

HVAC SYMBOL LEGEND

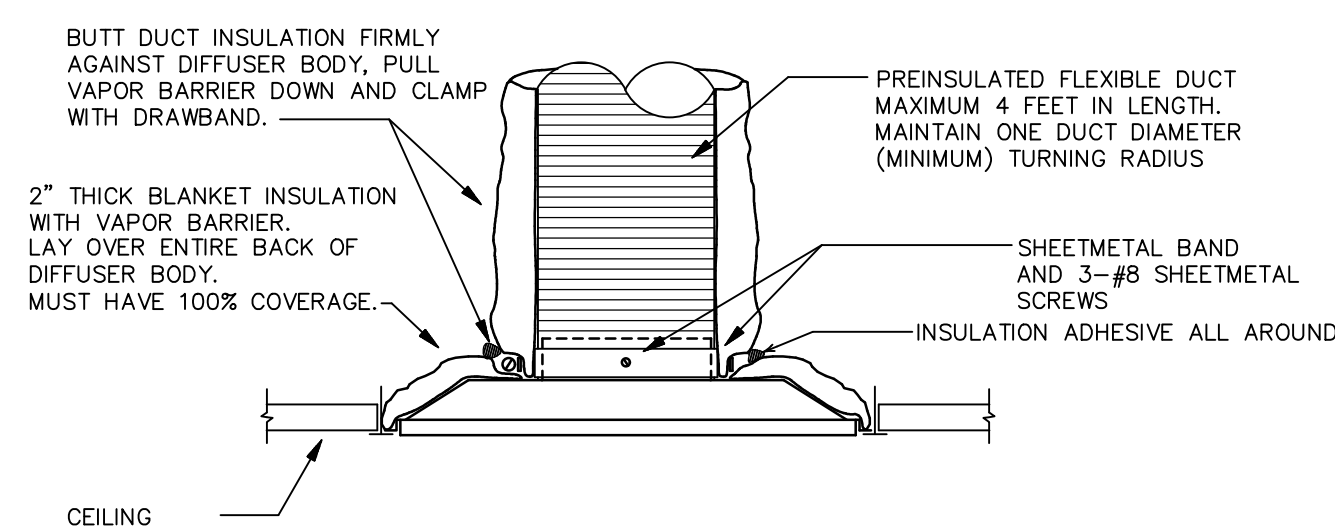
ALL SYMBOLS SHOWN MAY NOT APPEAR IN DRAWINGS.

- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- THERMOSTAT
- WALL CAP
- SUPPLY AIR
- EXHAUST AIR



- NOTES:**
- MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ROOF OPENINGS WITH GENERAL CONTRACTOR.
 - PREFABRICATED ROOF CURB FURNISHED BY MECHANICAL CONTRACTOR.

9 ROOF TOP EXHAUST FAN DETAIL
SCALE: NONE



3 CEILING DIFFUSER DETAIL
SCALE: NONE

SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK NO.	AREA SERVED	TONS	TOTAL CFM	O.A. (CFM)	EER	CLG CAPACITY		HTG CAPACITY		INDOOR UNIT						OUTDOOR UNIT						NOTES		
						TOTAL MBH	SENS MBH	CAPACITY MBH	AUX. HEAT KW	MFGR & MODEL (BASIS OF DESIGN)	VOLT PHASE	HP	E.S.P.	MCA	MOCP	MFGR & MODEL (BASIS OF DESIGN)	VOLT PHASE	COMP. RL-LR	FAN FLA (AMPS)	MCA	MOCP		WEIGHT (LBS)	
AHU-1	HP-1	DORMS	10	4000	400	11	120	90	120	25	CARRIER 4ORUQ	208/3	2.5	1.0	74	80	CARRIER 3BAUQ	208/3	30.8-225	3.0	42	60	450	ALL
AHU-2	HP-2	LOBBY	10	4000	400	11	120	90	120	25	CARRIER 4ORUQ	208/3	2.5	1.0	74	80	CARRIER 3BAUQ	208/3	30.8-225	3.0	42	60	450	ALL

NOTES:
1. 410A REFRIGERANT.
2. FURNISH WITH 7-DAY PROGRAMMABLE THERMOSTAT
3. FURNISH WITH DIGITAL SCROLL COMPRESSOR.
4. FURNISH WITH 2 SPEED SUPPLY FAN
5. FURNISH WITH LOW AMBIENT CONTROLS.
6. FURNISH WITH ANTI-SHORT CYCLE TIMER
7. FURNISH WITH EVAPORATOR DEFROST CONTROL.
8. FURNISH AND INSTALL VIBRATION ISOLATOR FEET TO OUTDOOR UNITS.
9. FASTEN OUTDOOR UNITS TO HOUSEKEEPING PAD.
10. FURNISH NEW MERV 10 FILTERS AT OWNER OCCUPANCY.
11. FURNISH WITH RA SMOKE DETECTORS, CONNECT TO AN AUDIBLE AND VISUAL REMOTE NOTIFICATION DEVICE.

MINI SPLIT SYSTEM SCHEDULE

MARK NO.	AREA SERVED	TONS	TOTAL CFM	O.A. (CFM)	SEER	CLG CAPACITY		HTG CAPACITY		INDOOR UNIT						OUTDOOR UNIT						NOTES
						TOTAL MBH	SENS MBH	CAPACITY MBH	MFGR & MODEL (BASIS OF DESIGN)	VOLT PHASE	HP	E.S.P.	MCA	MOCP	MFGR & MODEL (BASIS OF DESIGN)	VOLT PHASE	FAN FLA (AMPS)	MCA	MOCP	WEIGHT (LBS)		
AHU-3	HP-3	EXERCISE	2.5	800	0	15	30	20	30	MITSUBISHI PEAD-A30AA7	208/1	1/2	0.3	2.73	SEE OD UNIT	MITSUBISHI SUZ-KA30NAHZ	208/1	0.73	24	40	275	1,2
AHU-4	HP-4	BUNKER GEAR RM	1.0	300	0	14	12	10	12	MITSUBISHI PKA-A12GA	208/1	1/2	0.3	1	SEE OD UNIT	MITSUBISHI PUY-A12NHA	208/1	0.35	13	20	275	1,2,3
AHU-5	CU-5	SERVER RM	1.0	300	0	20	12	10	NONE	MITSUBISHI MSY-GL12NA	208/1	1/2	0.3	1	SEE OD UNIT	MITSUBISHI MUY-GL12NHA	208/1	0.5	7	15	275	1,2,3

NOTES:
1. 410A REFRIGERANT.
2. PROVIDE WITH INTEGRAL THERMOSTAT
3. MOUNT AHU ON WALL ABOVE DOOR

VENTILATION CALCULATION

ROOM	APPROX ROOM SIZE (SF) "Az"	VENTILATION REQUIREMENTS		OCCUPANCY VALUES "Pz"		VENTILATION RATES "Vbz"		EXHAUST AIR RATES		ADJUSTED OUTSIDE AIR RATE (CFM)	EXHAUST AIR RATE AS DESIGNED (CFM)	REMARKS
		IMC 2018 TABLE 403.3	IMC 2018 TABLE 403.3	PEOPLE REQUIRED PER DESIGN	IMC 2018 TABLE 403.3	IMC 2018 TABLE 403.3	IMC 2018 TABLE 403.3					
LOBBY	4000	30/1000 5 CFM/PERSON + 0.06 CFM/SF	45	45	315	-	350	-	-	350	-	-
DORM	2000	20/1000 5 CFM/PERSON + 0.06 CFM/SF	20	20	160	-	200	-	-	200	-	-
RESTROOMS PRIVATE	-	50 CFM/FIXTURE	-	-	-	50	-	50	-	50	-	1 FIXTURE
RESTROOMS PUBLIC	-	70 CFM/FIXTURE	-	-	-	3500	-	3500	-	3500	-	5 FIXTURES

AIR TERMINAL DEVICE SCHEDULE

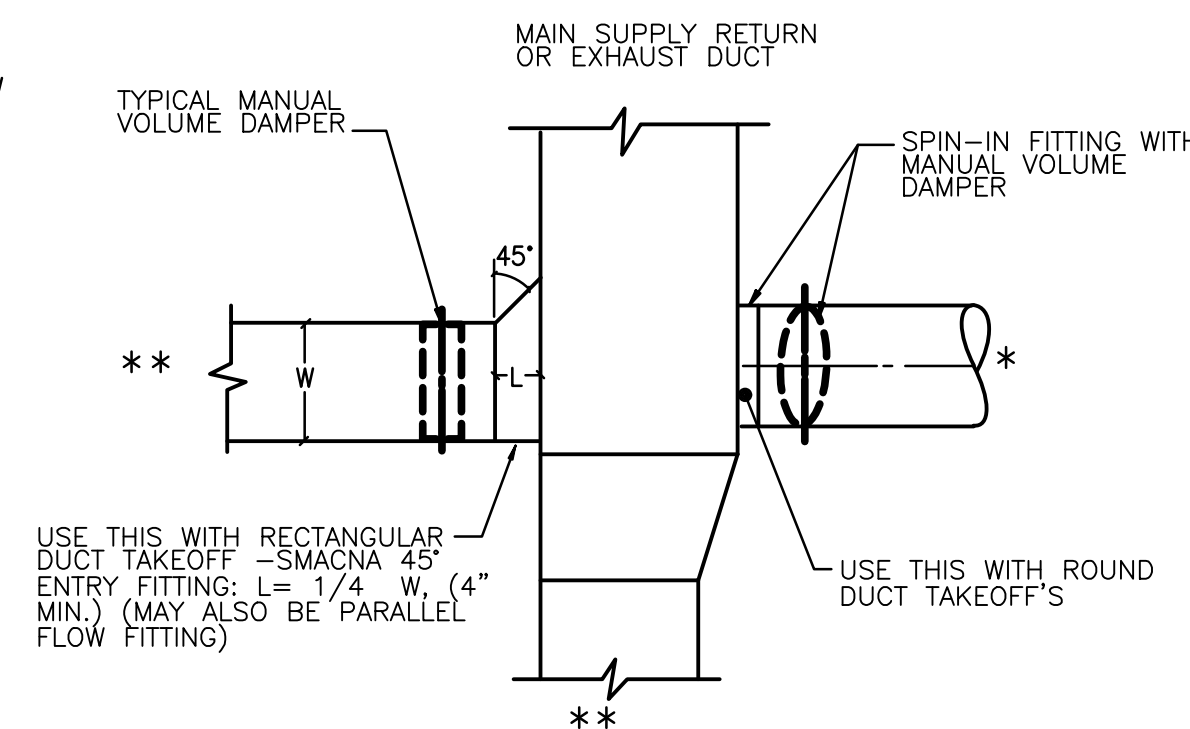
MARK	DESCRIPTION	MFGR	MODEL	MATERIAL	NECK	NOTES
CD	CLG SUPPLY AIR DIFFUSER	TITUS	TMSAA	ALUM.	ROUND	ALL
CRD	CLG RETURN AIR DIFFUSER	TITUS	PARAA	ALUM.	RECT	ALL
SG	SUPPLY GRILLE	TITUS	250AA	ALUM.	RECT	ALL
CRG	CEILING RETURN AIR GRILLE	TITUS	300FL	ALUM.	RECT	ALL

NOTES:
1. BASIS OF DESIGN - MAY SUBMIT EQUAL.
2. FINISH SHALL BE VERIFIED W/ARCHITECT

DIFFUSERS/GRILLES/LOUVERS

NUMBER OF DUPLICATE AIR DEVICES DESIGNATED BY THIS SYMBOL (2) \rightarrow 2 CDA4
NECK SIZE IN INCHES (12") \rightarrow 12"
AIR QUANTITY DELIVERED BY DEVICE IN CFM (200 CFM) \rightarrow 200

DISTRIBUTION DEVICE FIRST LETTER:
C-CEILING, D-DOOR, F-FLOOR, W-WALL
SECOND LETTER:
D-DIFFUSER, G-GRILLE, L-LOUVER
THIRD LETTER:
TYPE CODE
FOURTH CHARACTER: BLOW PATTERN (4-WAY)



- * = BRANCH TO INDIVIDUAL DIFFUSER OR GRILLE
- ** = SUBMAIN, BRANCHMAIN, OR BRANCH.

DUCT AIR VOLUME DAMPER REQUIREMENTS

SCALE: NOT TO SCALE

HEATER SCHEDULE

MARK	DESCRIPTION	MFGR	MODEL	VOLT	AMP	KW	LENGTH	MOUNT HEIGHT	NOTES
HTR-1	INFRARED HEATER	MARKEL	FSS-9520-3	208/3	27	9.5	20x50"	14'	1,2

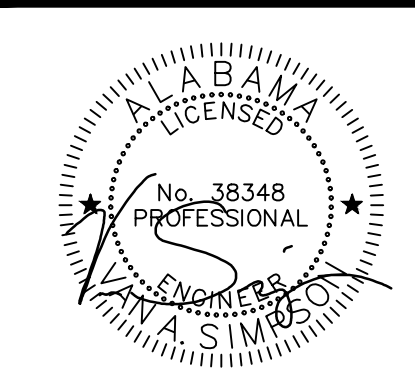
NOTES:
1. MOUNT AT 30° ANGLE.
2. FINISH SHALL BE VERIFIED W/ARCHITECT



M1.1
NOTES, DETAILS AND LEGENDS



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P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



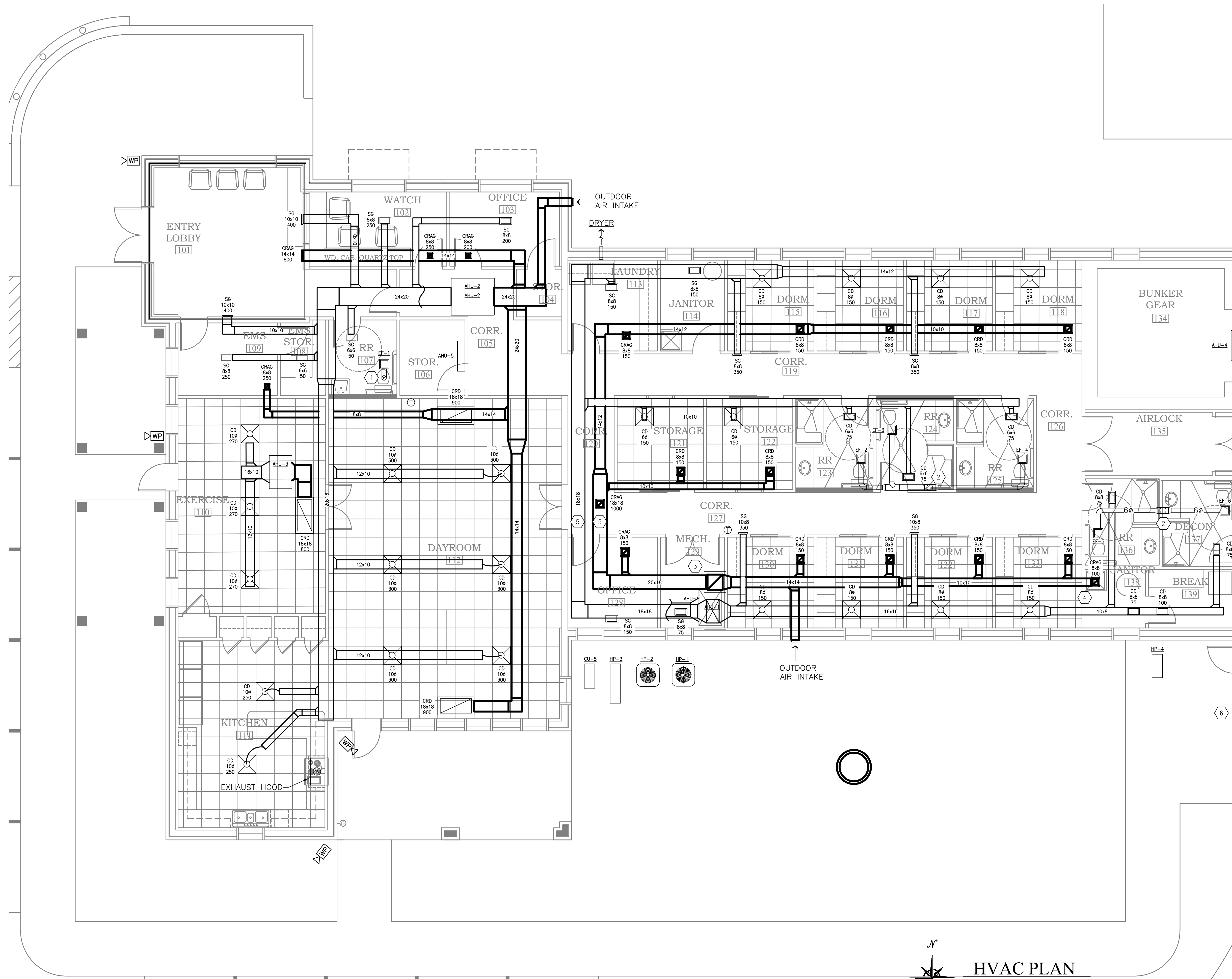
11/11/21

KEYED NOTES:

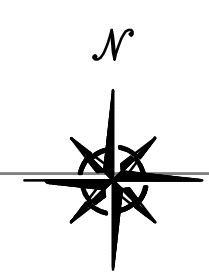
- ① ROUTE 6" DUCT UP THRU ROOF AND TERMINATE WITH GREENHECK GRSR GRAVITY ROOF VENT. SEAL ROOF PENETRATION WITH FLASHING AND CAULK.
- ② ROUTE 8" DUCT UP THRU ROOF AND TERMINATE WITH GREENHECK GRSR GRAVITY ROOF VENT. SEAL ROOF PENETRATION WITH FLASHING AND CAULK.
- ③ CONTRACTOR TO PROVIDE AND INSTALL RETURN PLENUM BOX UNDER AHU. RETURN DUCT TO BE ROUTED TO THIS PLENUM.
- ④ PROVIDE FIRE RATED DAMPERS IN DUCTS AT WALL PENETRATION.
- ⑤ ROUTE THE SUPPLY AND RETURN DUCT STACKED IN OR TO PROVIDE CLEARANCE FOR ATTIC MEZZANINE ACCESS. SHOWN SIDE BY SIDE FOR CLARITY.
- ⑥ RUSKIN ELM6375DX 48x48" ADJUSTABLE LOUVER. MOUNT BOTTOM 18" AFF.

GENERAL NOTES:

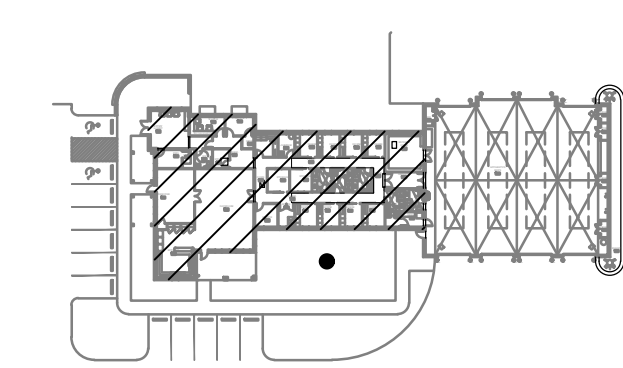
- 1. COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.



SEE M2.2 FOR CONTINUATION



HVAC PLAN
SCALE: 3/16"=1'-0"



KEY PLAN

ORANGE BEACH
FIRE STATION NUMBER 5
 ORANGE BEACH
 ALABAMA

JOB NO.:	
DRAWN:	TB
CHECKED:	VS
DATE:	2021.11.01
REVISION:	1

SCALE: NOTED

SHEET NO.:

M2.1

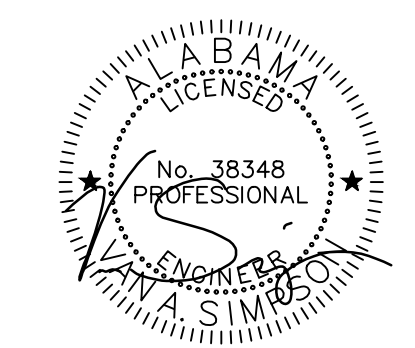
HVAC PLAN
SHEET 1 OF 2



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36547-6310
PHONE: 251-968-7222



11/01/21

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

JOB NO.:
DRAWN: TB
CHECKED: VS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

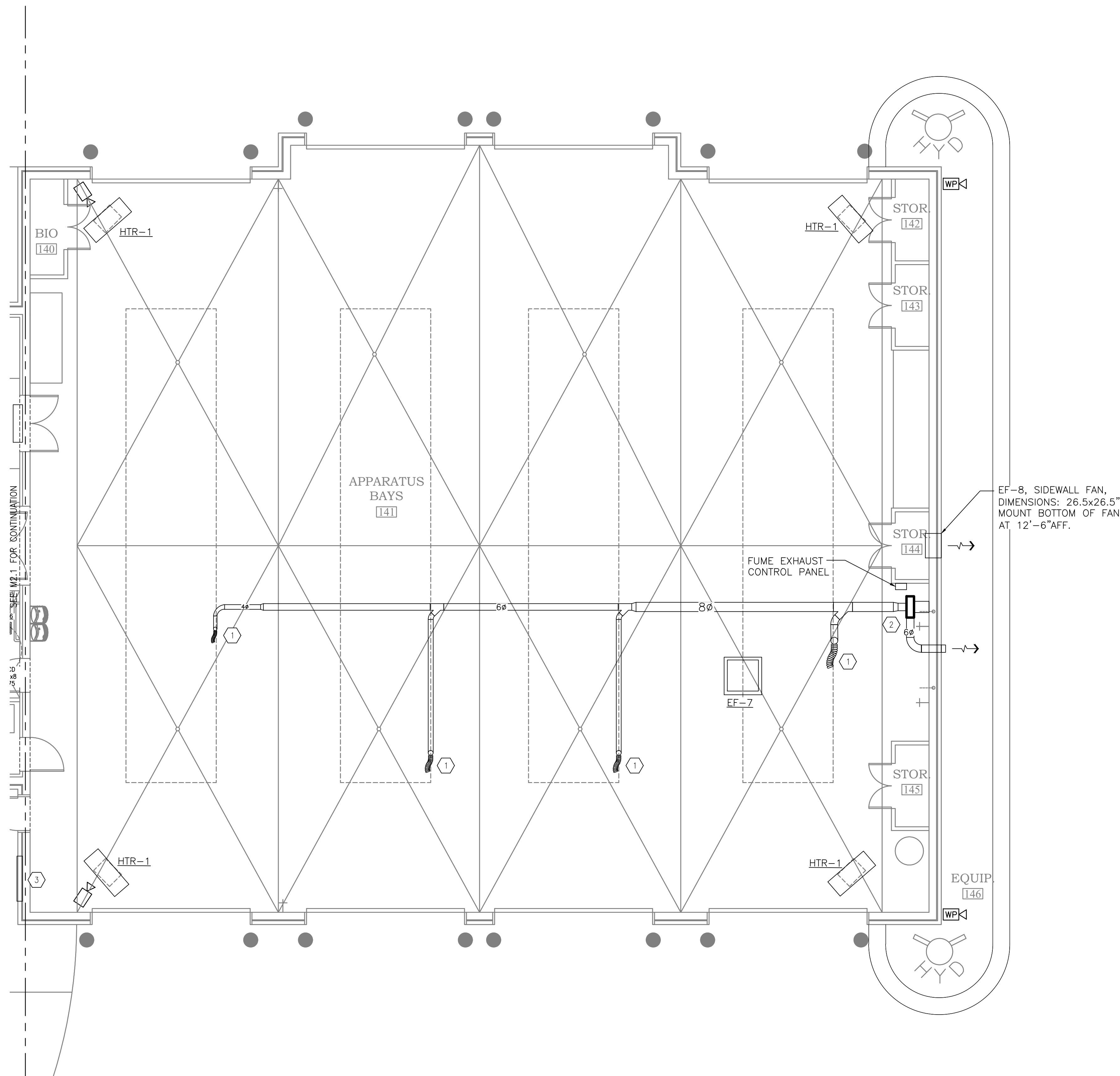
SHEET NO.:

M2.2

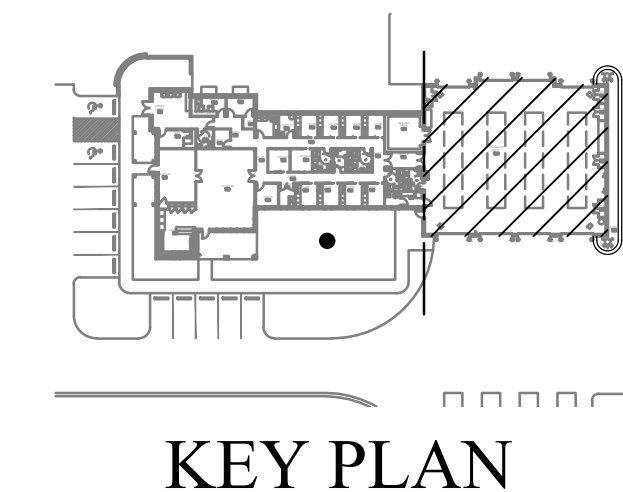
HVAC PLAN
SHEET 2 OF 2

KEYED NOTES:

- 1 COORDINATE FINAL LOCATIONS OF EXHAUST DROPS WITH OWNER.
- 2 BASIS OF DESIGN: FUME-A-VENT EXHAUST REMOVAL SYSTEM, PB14-3-3-B BLOWER, 1300 CFM, FLEX HOSE WITH EXHAUST NOZZLE CONNECTION, OPTIONAL OVERHEAD ROPE AND PULLEY SYSTEM. MOUNT BLOWER HIGH ON WALL. PROVIDE 3-WAY SWITCH (HAND/OFF/AUTO). COORDINATE FINAL DROP LOCATIONS WITH FIRE DEPARTMENT.
- 3 RUSKIN ELM6375DX 48x48" ADJUSTABLE LOUVER. MOUNT BOTTOM 18" AFF.



HVAC PLAN
 SCALE: 3/16"=1'-0"



KEY PLAN



Gulf States Engineering, Inc.
100 Azalea Pk. Mobile, AL 36689 (T) 251-480-4646 (F) 251-480-4645

LEGEND

	SPECIFICATION GRADE DUPLEX RECEPTACLE, – 20 AMP, 125V. TAMPER PROOF HEAVY DUTY.		LVD ‡ LOW VOLTAGE DIMMER SWITCH.
	SPECIFICATION GRADE DUPLEX RECEPTACLE, – 20 AMP, 125V. TAMPER PROOF. WITH USB CHARGING PORTS.		LV ‡ LOW VOLTAGE SWITCH.
	SPECIFICATION GRADE WEATHER RESISTANT, DUPLEX RECEPTACLE – TAMPER PROOF WITH GROUND FAULT INTERRUPT.		OC ‡ DUAL TECHNOLOGY WALL OCCUPANCY SWITCH.
	SPECIFICATION GRADE, DUPLEX RECEPTACLE – TAMPER PROOF WITH GROUND FAULT INTERRUPT.		OS CEILING MOUNTED OCCUPANCY SENSOR.
	SPECIFICATION GRADE, DUPLEX RECEPTACLE – TAMPER PROOF WITH GROUND FAULT INTERRUPT.		OS WALL MOUNTED OCCUPANCY SENSOR.
	"C" INDICATES DEVICE MOUNTED @ 2" ABOVE BACKSPASH UNLESS NOTED. COORDINATE IN FIELD.		LOW VOLTAGE WIRING. SEE MANUFACTURER DRAWINGS FOR MORE INFORMATION.
	SPECIFICATION GRADE, DUPLEX RECEPTACLE – 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.		PP LOW VOLTAGE POWER PACK.
	240V SIMPLEX RECEPTACLE, MTD. AS REQUIRED BY EQUIPMENT BEING SERVED, COORDINATE IN FIELD, AMPERAGE AS NOTED.		20A 20A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS STEEL FACEPLATE.
	SPECIFICATION GRADE DUPLEX RECEPTACLE – 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.		30A 30A, 240V SIMPLEX RECEPTACLE, MOUNTED AS REQUIRED BY EQUIPMENT BEING SERVED, WITH BRUSHED STAINLESS STEEL FACEPLATE.
	SPECIFICATION GRADE DUPLEX RECEPTACLE – 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.		SPECIFICATION GRADE DOUBLE DUPLEX RECEPTACLE – 20 AMP, 125V. TAMPER PROOF HEAVY DUTY. MTD. IN FLOOR BOX, WITH BRASS COVERPLATE.
	WIRELESS ACCESS POINT, WALL MOUNTED AT 11'-4". POE (POWER OVER ETHERNET) RUN (1) CAT 6 CABLE FROM WAP TO AV/I.T. CLOSET.		CABLE TV OUTLET WITH COAX CABLE BACK TO TELEPHONE BACKBOARD.
	ALERTING SYSTEM CONTROLLER LOCATION.		ALERTING SYSTEM THERMAL PRINTER.
	REMOTE TOUCH SCREEN.		INTERIOR CEILING SPEAKER.
	INTERIOR WALL SPEAKER.		INTERIOR CEILING SPEAKER AND LED LIGHTS.
	INTERIOR WALL SPEAKER AND LED LIGHTS.		APPARATUS BAY AND EXTERNAL HIGH POWER SPEAKER.
	MESSAGE BOARD.		TURN OUT TIMER.
	DOORBELL PUSHBUTTON.		MANUAL PUSHBUTTON.
	VOLUME CONTROL, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.		INDOOR CCTV POE CAMERA, PROVIDE 4x4 WALL BOX WITH (2) CAT6 CABLES 3/4" C. TO DATA RACK.
	OUTDOOR CCTV POE CAMERA, PROVIDE 4x4 WALL BOX WITH (2) CAT6 CABLES 3/4" C. TO DATA RACK.		
	EXHAUST FAN		
	JUNCTION BOX LOCATION MOUNTED AS NOTED ON DRAWING, SIZED AS REQUIRED BY EQUIPMENT BEING SERVED.		
	DISCONNECT SWITCH, SIZE AND TYPE AS NOTED.		
	HOME RUN CONDUIT, CIRCUIT NUMBER AS INDICATED ON DRAWINGS, HASHMARKS INDICATE HOT NEUTRAL AND GROUND.		
	CONDUIT RUN IN FLOOR OR SLAB.		
	CONDUIT RUN IN WALLS OR CEILING.		

BASIS OF DESIGN

- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- SERVICE CHARACTERISTICS: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND BUILDING SERVICE OF THREE PHASE, FOUR WIRE, 60 HERTZ.
- ALL CONDUCTORS SHALL BE COPPER, U.N.O. SERVICE ENTRANCE CONDUCTORS MAY BE ALUMINUM.
- ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES' LISTED, AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF U.L. (44 AND 83), NEMA (WC-5 AND WC-7), IPECA (S-61-402 AND S-66-524), FEDERAL SPECIFICATIONS (J-C-30A1(1) AND HH-1-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET U.L. PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MINIMUM), TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. SERVICE AND FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MINIMUM), TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUNDED CONDUCTOR. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. REMANUFACTURED, REPAIRED, AND RECONDITIONED EQUIPMENT ARE NOT ACCEPTABLE.
- ALL EQUIPMENT IS SCHEDULED WITHOUT SUBSTITUTIONS. HOWEVER, SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER OF RECORD.
- PANEL BOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF A PANEL BOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, U.L. LISTED, AND MEET U.L. 67, U.L. 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN.
- ALL JUNCTION BOXES, PULL BOXES, WIRE WAYS, ETC., SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL PRODUCTS AND EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- ALL FURNISHED EQUIPMENT TERMINALS SHALL BE LISTED FOR USE AT 75 DEGREE C.
- NO CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED.

ELECTRICAL CONTRACTOR REQUIREMENTS

- PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.
- BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY THE ELECTRICAL SERVICE ARRANGEMENTS WITH THE LOCAL POWER COMPANY AND WITH OWNER SUPPLIED SITE PLAN. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL OF THE FOLLOWING MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE: PANEL BOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; MOTOR STARTERS; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT. THIS REQUIREMENT INCLUDES DEVICES, CONDUCTORS, AND ETC. REQUIRED BY OTHER DISCIPLINES. THE ELECTRICAL CONTRACTOR SHALL REVIEW OTHER INSTALLATION PACKAGES TO INSURE EQUIPMENT NEEDED TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND NECESSARY EQUIPMENT FOR LIGHT FIXTURE MOUNTING, AND INSTALLATION.
- ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST, ADOPTED, EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY FURNISHING THE SERVICES. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT
- FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS PACKAGE IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

GENERAL NOTES

- NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED.
- ALL WIRING SHALL BE RUN IN CONDUIT.
- ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS.
- FOR HOME RUNS ON 20 AMP CIRCUITS EXCEEDING SEVENTY-FIVE (75) FEET FROM THE PANEL BOARD SHALL USE #10 AWG MINIMUM.
- AN ELECTRICALLY CONTINUOUS, EQUIPMENT GROUNDING CONDUCTOR SHALL BE RAN WITH EACH POWER AND LIGHTING CONDUIT. SIZE OF THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE AS NOTED OR AS DETERMINED IN TABLE 250.122 OF THE N.E.C. IF NOT NOTED, EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCLUDED REGARDLESS OF THE CONDUIT TYPE AND MATERIAL USED.
- BOND TELEPHONE EQUIPMENT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM PER NATIONAL ELECTRICAL CODE.
- ALL CIRCUITS SHALL HAVE AN INDIVIDUAL GROUNDED CONDUCTOR. NO MULTIWIRE CIRCUITS ARE PERMISSIBLE.
- CONDUCTORS SHALL COLOR CODED AS FOLLOWS. FOR CONDUCTORS SMALL THAN #6 THE JACKET SHALL BE OF THE NOTED COLOR. FOR CONDUCTORS LARGER THAN #6, EACH END OF THE CONDUCTOR SHALL BE MARKED WITH TAPE FOR A MINIMUM OF FOUR (4) INCHES.

CONDUCTOR COLOR CODES					
	PHASE A	PHASE B	PHASE C	GROUNDED CONDUCTOR	GROUNDING CONDUCTOR
<= 240V	BLACK	RED	BLUE	WHITE	GREEN
> 240V	BROWN	ORANGE	YELLOW	GREY	GREEN

- ALL CIRCUIT BREAKERS, DISCONNECTS, AND OTHER PROTECTIVE DEVICES SHALL BE FULLY RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL UTILITY. E.C. SHALL COORDINATE WITH LOCAL UTILITY BEFORE STARTING WORK.
- ALL BUILDING SYSTEM GROUNDING ELECTRODES SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM. GROUNDING SYSTEM SHALL COMPLY WITH N.E.C. ARTICLE 250
- EMERGENCY LIGHTING EQUIPMENT SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT OF THE LIGHTS IN THE IMMEDIATE AREA.
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. 2' X 4' FIXTURES SHALL BE SUPPORTED WITH A CABLE FROM AT LEAST TWO CORNERS.
- HIGH BAY LIGHTING, SHALL HAVE A SAFETY CHAIN INSTALLED.
- ALL MOUNTING HEIGHTS ARE GIVEN FROM THE CENTER OF THE DEVICE
- LIGHT SWITCHES SHALL BE MOUNTED 46" A.F.F. U.N.O.
- RECEPTACLES SHALL BE MOUNTED 18" A.F.F. U.N.O.
- TELECOMMUNICATIONS AND DATA OUTLETS SHALL BE MOUNTED 18" A.F.F. U.N.O.
- WALL MOUNTED TELECOMMUNICATIONS AND DATA OUTLETS SHALL BE MOUNTED 46" A.F.F. U.N.O.
- CABLE T.V. OUTLET SHALL BE MOUNTED 18" A.F.F. U.N.O.
- DISCONNECT SWITCHES SHALL BE FURNISHED, AS PART OF THIS PACKAGE, AND INSTALLED FOR EACH UNIT OF HVAC AND OTHER REQUIRED EQUIPMENT.
- PROVIDE NAMEPLATES FOR ALL PANEL BOARDS, CONTROLS, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT. NAMEPLATES SHALL BE ENGRAVED PHENOLIC LABELS WITH WHITE LETTERING ON A BLACK BACKGROUND.
- PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS.
- OUTDOOR RECEPTACLES SHALL HAVE INSTALLED AN EXTRA HEAVY-DUTY WEATHER PROOF WHILE IN-USE RECEPTACLE COVER.
- ALL EMPTY AND UNUSED CONDUIT SHALL HAVE A #12 AWG PULL WIRE LEFT REMAINING
- DURING CONSTRUCTION, CONDUIT SHALL BE KEPT FREE OF ALL FOREIGN MATTER BY USE OF CAPPED BUSHINGS ON ALL TURNED-UP ENDS. PAPER OR WOOD PLUGS ARE NOT ACCEPTABLE FOR THIS PURPOSE.
- CONDUIT PLACED IN CONCRETE OR RUN UNDERGROUND SHALL BE PLASTIC COATED RIGID GALVANIZED CONDUIT OR PVC. IF PVC IS USED, ALL ELBOWS, SWEEPS AND STUB-UPS SHALL BE PLATIC COATED RIGID GALVANIZED STEEL. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS
- CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT WHERE ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID SCREWED GALVANIZED PIPE CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR OTHER THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION.
- WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, OR ROTATING EQUIPMENT SHALL BE MADE WITH HELICAL WOUND, LIQUID TIGHT, FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET.
- ALL CIRCUITS ENTERING A JUNCTION BOX SHALL BE IDENTIFIED BY A MEANS ACCEPTABLE TO THE NATIONAL ELECTRICAL CODE
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED.
- ALL FIRE BARRIER PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE SEALANT. COORDINATE WITH ARCHITECTURAL PLANS FOR ALL RATED WALLS AND CEILINGS PRIOR TO BID SO AN UNDERSTANDING OF NUMBER OF SEALS REQUIRED, AND DETERMINE METHOD FOR MINIMIZING THE SEAL REQUIREMENTS.

DRAWING INDEX

E1.1	GENERAL NOTES AND LEGENDS
E2.1	POWER PLAN SHEET 1 OF 2
E2.2	POWER PLAN SHEET 2 OF 2
E2.3	EMERGED PLANS AND DETAILS
E3.1	LIGHTING PLAN SHEET 1 OF 2
E3.2	LIGHTING PLAN SHEET 2 OF 2
E4.1	RISER DIAGRAM AND PANEL SCHEDULES
E4.2	PANEL SCHEDULES
UE.1	ELECTRICAL SITE PLAN

ABBREVIATIONS

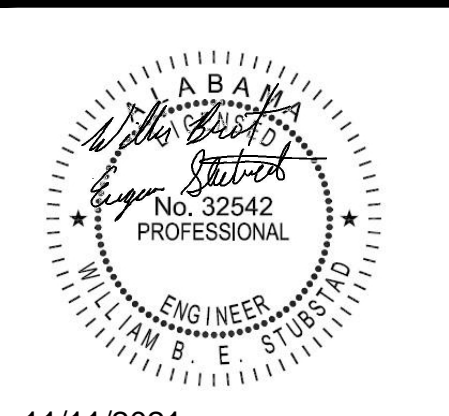
A OR AMP	AMPERES
ACT	ABOVE COUNTER TOP (6")
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
APPROX	APPROXIMATELY
ASYM	ASYMMETRICAL
AMP TRIP	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
C. /C	CONDUCTOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CO	COMPANY
COL	COLUMN
CNTL	CONTROL
CT	CURRENT TRANSFORMER
D	DEPTH
DIA	DIAMETER
DS OR DISC	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ESTOP	EMERGENCY STOP
EX, EXIST.	EXISTING
EXP	EXPLOSION PROOF
EF	EXHAUST FAN
EGG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
EMS	ENERGY MANAGEMENT SYSTEM
ETC	ET CETERA
EXIST	EXISTING
F	FUSE
FL, FLR	FLOOR
FT	FEET
G OR GND	GROUND
GA	GAUGE
GALV	GALVANIZED
GEN	GENERATOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GEI	GROUND FAULT INTERRUPTING
H-O-A	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR
IG	ISOLATED GROUND
ISBR	INTRINSICALLY SAFE BARRIER RELAY
IN	INCH
IR	INFRARED
ISCA	INSTANTANEOUS SHORT CIRCUIT AVAILABLE
JB OR J	JUNCTION BOX
KVA	KILOVOLT – AMPS
KW	KILOWATTS
KWH	KILOWATT-HOUR
L	LENGTH
LA	LIGHTNING ARRESTOR
LEFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
MAX	MAXIMUM
MCB OR MB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH OR MTG	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NF	NON-FUSIBLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
No.	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O.C.	ON CENTER
OPD	OVERCURRENT PROTECTIVE DEVICE
O/F	OVERFILL
OHE	OVERHEAD ELECTRICAL
P	POLE
PERM	PERMANENT
PFC	POWER FACTOR CAPACITOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PAIR	PAIR
PVC	POLYVINYLCHLORIDE CONDUIT
PWR	POWER
R&R	REMOVE AND RELOCATE
RE	RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
ROS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SH	SHIELDED
SS	STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TEL	TELEPHONE
TWIS	TWISTED INDIVIDUAL SHIELD
TWOS	TWISTED OUTER SHIELD
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UV	ULTRAVIOLET
V	VOLTS
VA	VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W	WATT
W/	WITH
W/O	WITHOUT
WM	WATTMETER
WP	WEATHER PROOF
XFMR	TRANSFORMER



ORANGE BEACH FIRE STATION NUMBER 5 ORANGE BEACH ALABAMA

JOB NO.:	
DRAWN:	SS
CHECKED:	BS
DATE:	2021.11.01
REVISION:	
SCALE:	NONE
SHEET NO.:	
E1.1	
LEGENDS, NOTES AND ABBREVIATIONS	

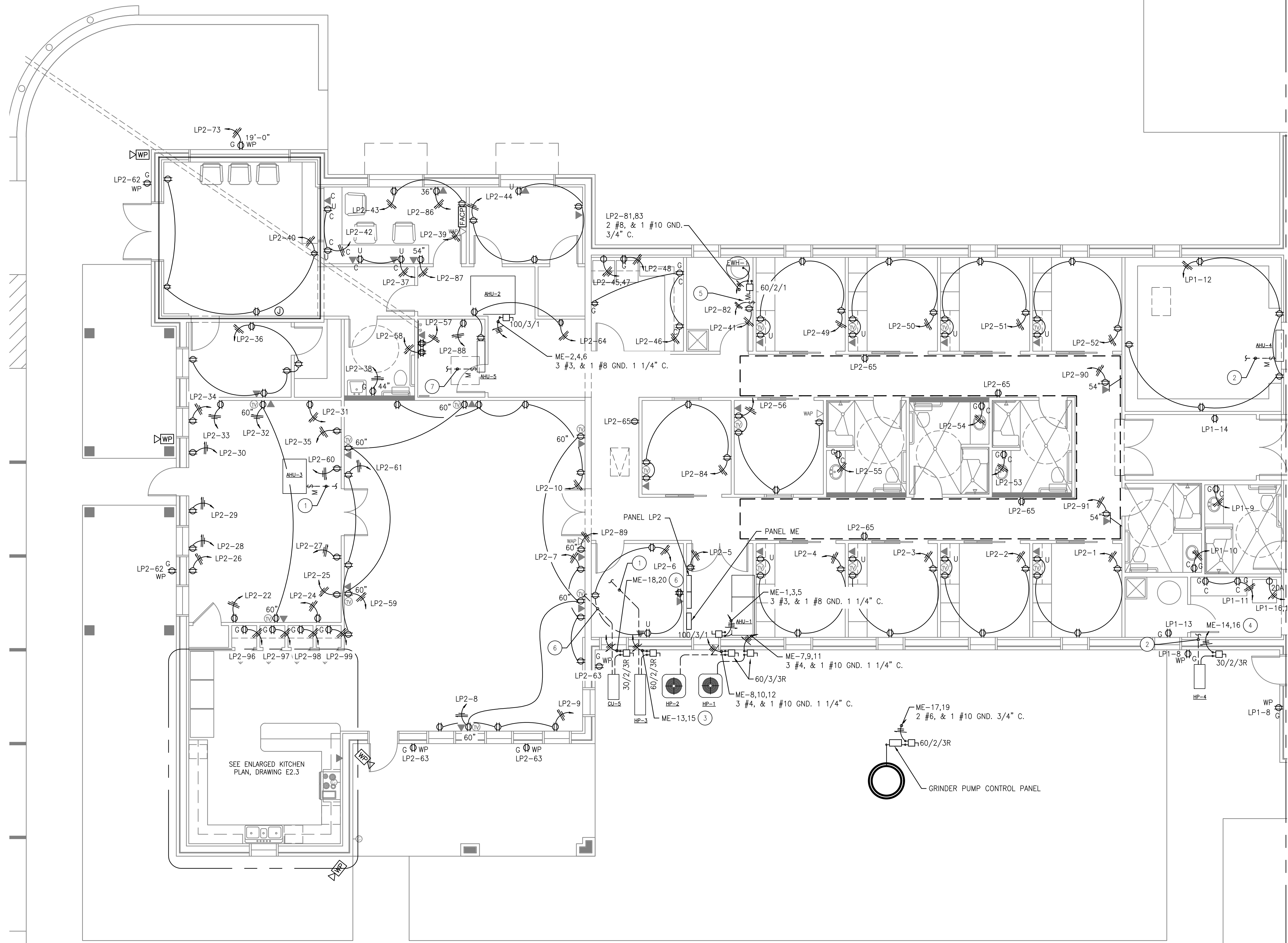




**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

KEYED NOTES:

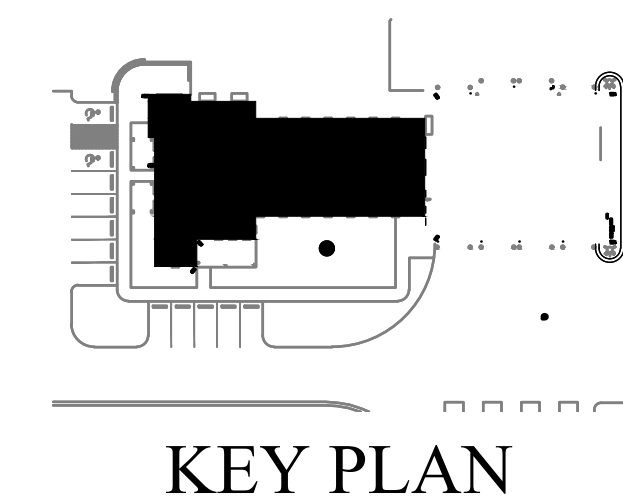
- ① AHU-3 IS POWERED FROM HP-3, PROVIDE 3 #12, 3/4" C. FROM HP-3 TO AHU-3.
- ② AHU-4 IS POWERED FROM HP-4, PROVIDE 3 #12, 3/4" C. FROM HP-4 TO AHU-4.
- ③ 2 #8, & 1 #10 GND 3/4" C. TO HP-3.
- ④ 2 #12, & 1 #12 GND 3/4" C. TO AHU-4.
- ⑤ PROVIDE SIGN AT SWITCH FOR HOT WATER CIRCULATING PUMP, READING "ON-OFF SWITCH FOR HOT WATER CIRCULATING PUMP LOCATED ABOVE CEILING THIS ROOM.
- ⑥ AHU-5 IS POWERED FROM CU-5, PROVIDE 3 #12, 3/4" C. FROM CU-5 TO AHU-5.
- ⑦ 2 #12, & 1 #12 GND 3/4" C. TO AHU-5.
- ⑧ POWER FOR STATION ALERTING SYSTEM,



SEE E2.2 FOR CONTINUATION

**DISCONNECT SWITCH
DESCRIPTION
NOMENCLATURE**

AMPERE RATING	NUMBER OF POLES	NEMA RATING
XX/N/XX		



POWER PLAN
SCALE: 3/16"=1'-0"

JOB NO.:	
DRAWN:	SS
CHECKED:	BS
DATE:	2021.11.01
REVISION:	

SCALE: NOTED

SHEET NO.:

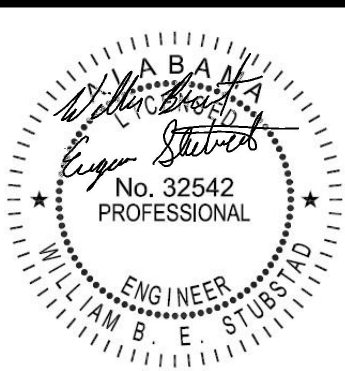
E2.1

POWER PLAN
SHEET 1 OF 2





**McColough
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36547-6310
PHONE: 251-968-7222

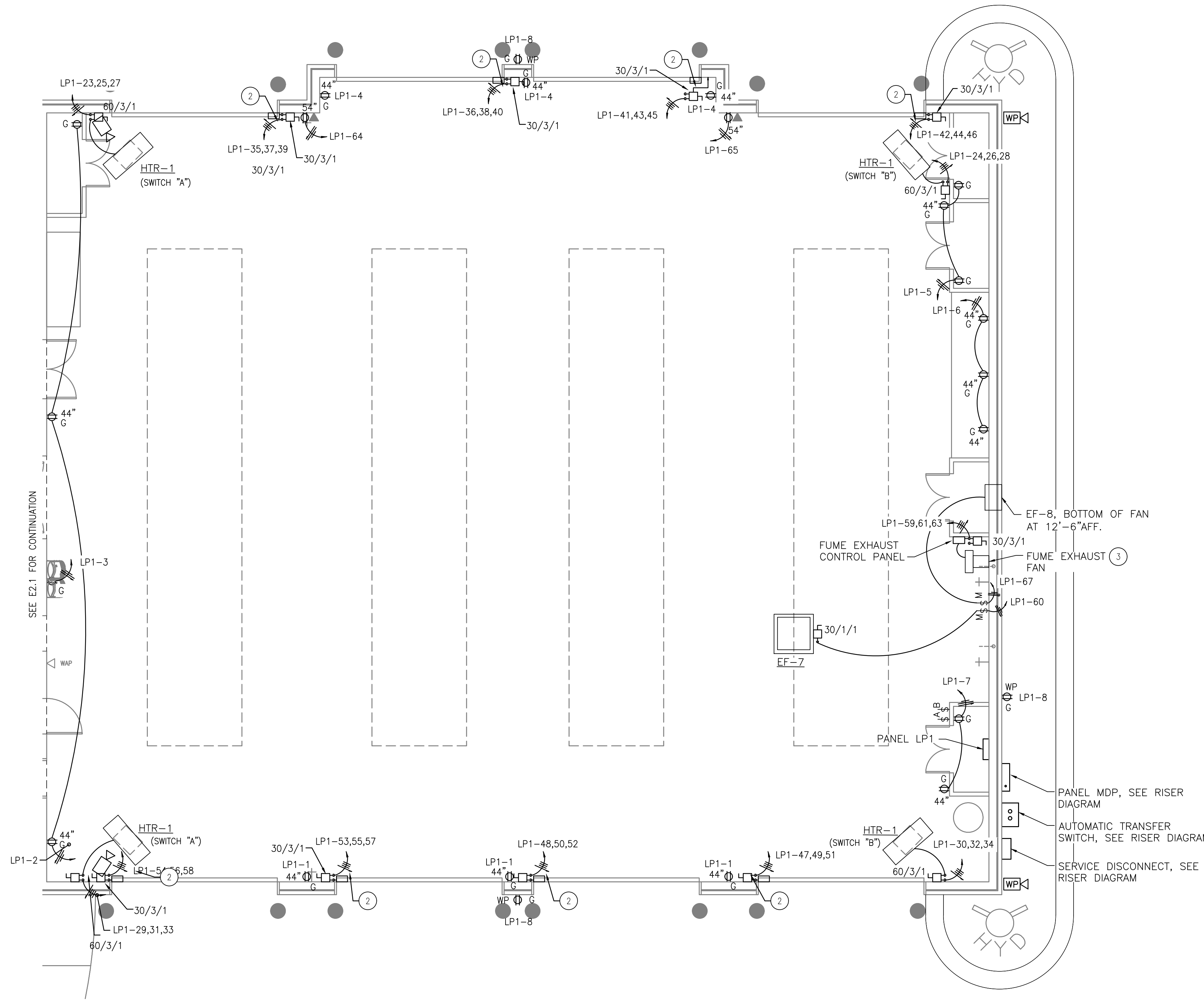


11/1/2021

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

KEYED NOTES:

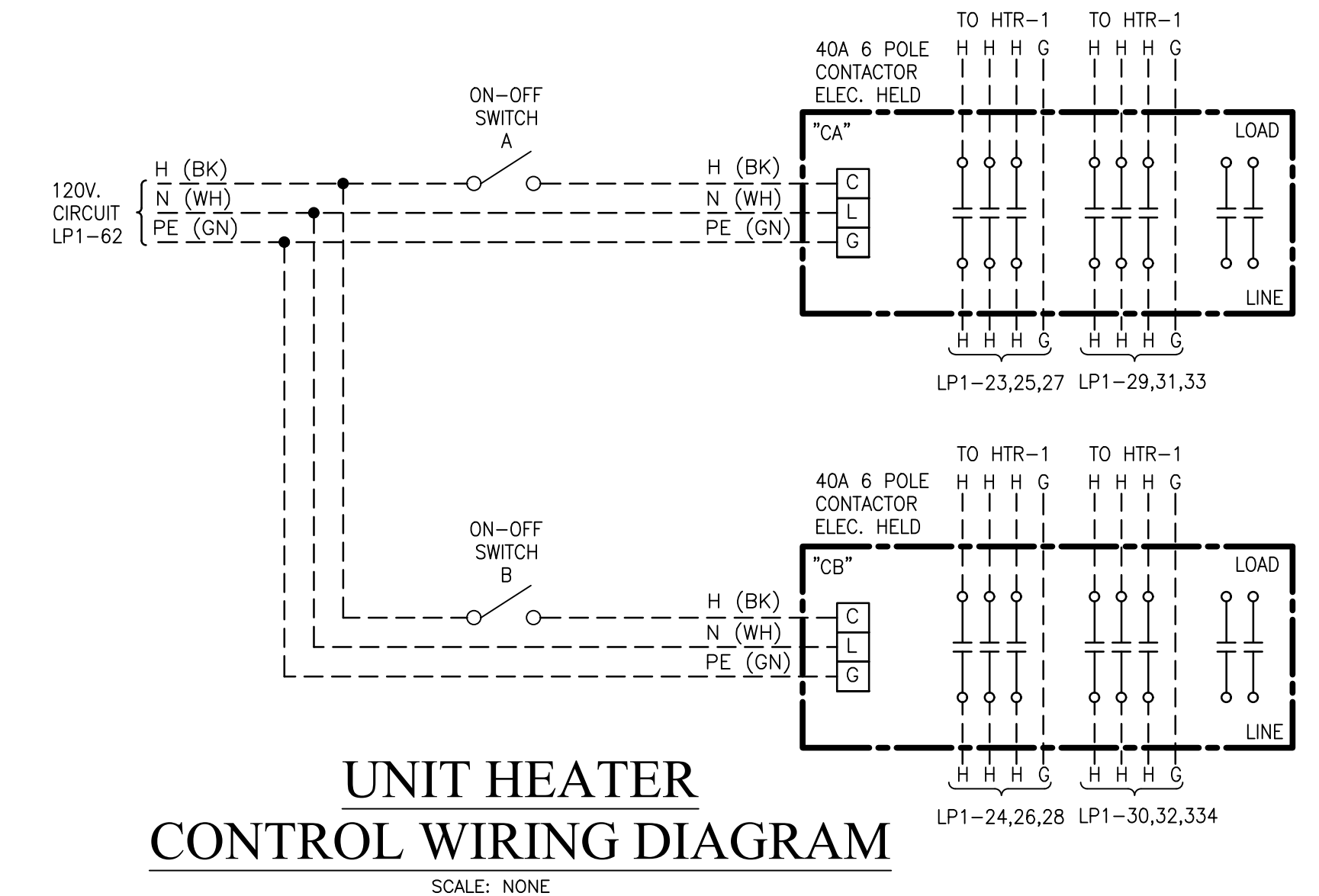
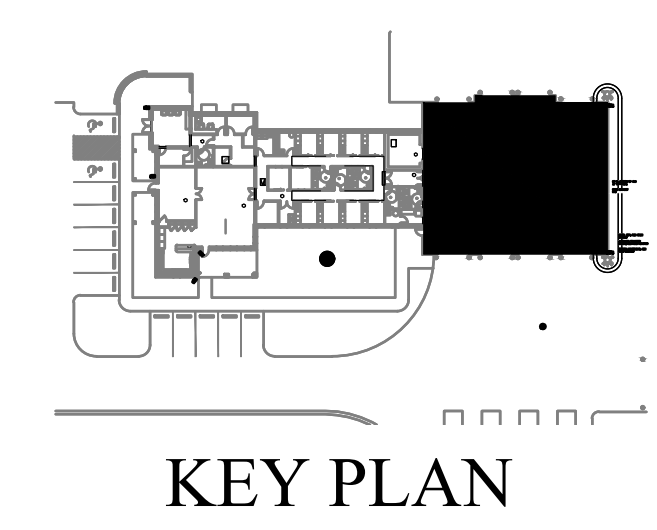
- 1 HEATER SWITCHES "A" & "B", AND CONTACTORS, SEE WIRING DIAGRAM THIS DRAWING.
- 2 OVERHEAD DOOR OPERATOR, E.C. TO PROVIDE POWER, DISCONNECT SWITCH, AND 3/4" CONDUIT FROM DOOR OPERATOR DOWN TO OPEN/CLOSE PUSHBUTTON STATION. PROVIDE ALL CONTROL CONDUCTORS PER MANUFACTURERS DIRECTION.
- 3 FUME A VENT CONTROL PANEL. PROVIDE ALL POWER AND CONTROL WIRING FROM CONTROL PANEL TO BLOWER.
- 4 COORDINATE ALL CONDUIT STUB UP REQUIREMENTS IN GENERATOR SLAB PRIOR TO POURING. SEE RISER DIAGRAM.



POWER PLAN
SCALE: 3/16"=1'-0"

DISCONNECT SWITCH DESCRIPTION NOMENCLATURE

AMPERE RATING	NUMBER OF POLES	NEMA RATING
XX/XX/XX		



JOB NO.:
DRAWN: SS
CHECKED: BS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

E2.2

POWER PLAN
SHEET 2 OF 2





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11/1/2021

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

JOB NO.:
DRAWN: SS
CHECKED: BS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

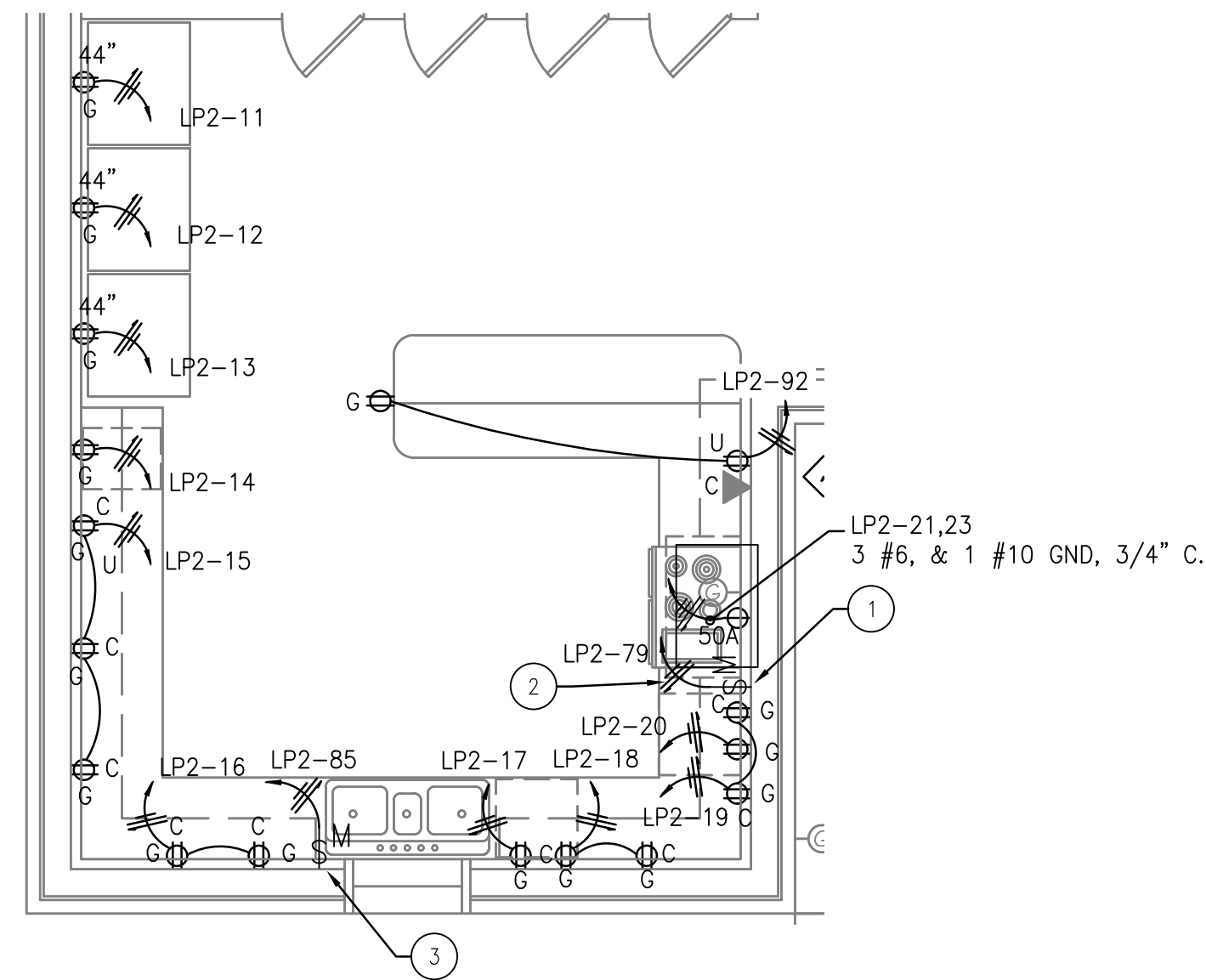
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E2.3

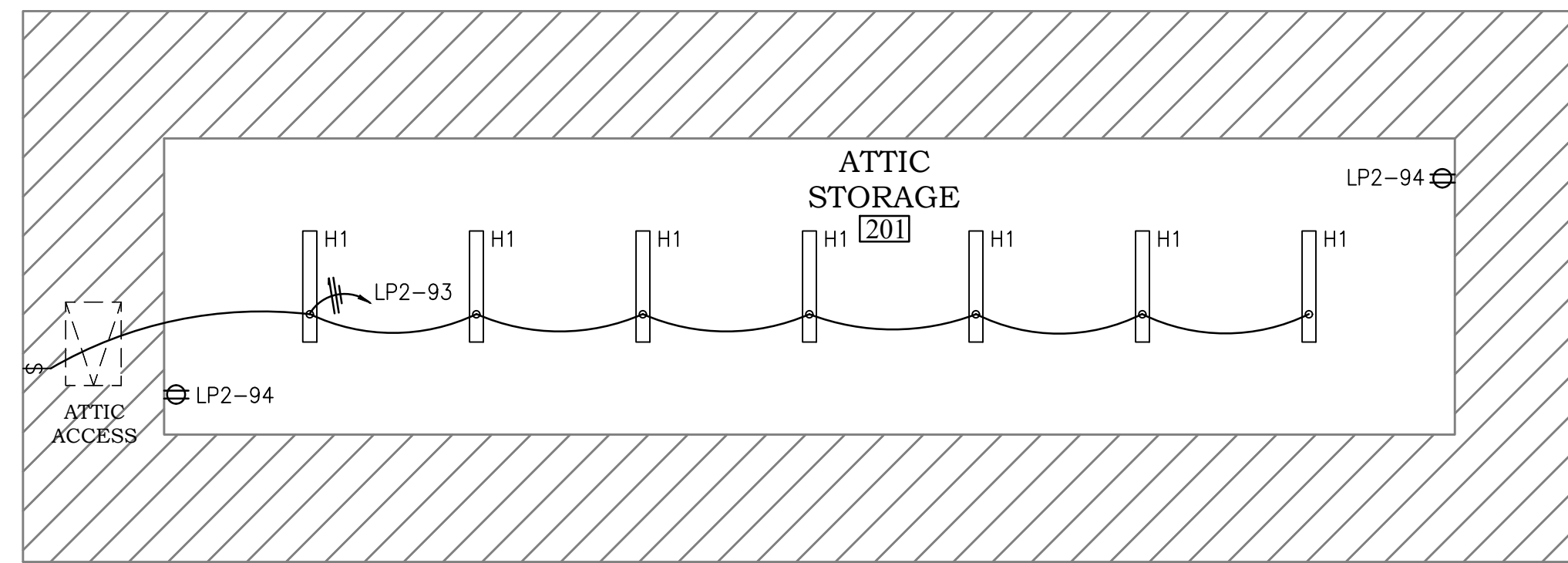
ENLARGED PLANS
AND DETAILS

KEYED NOTES:

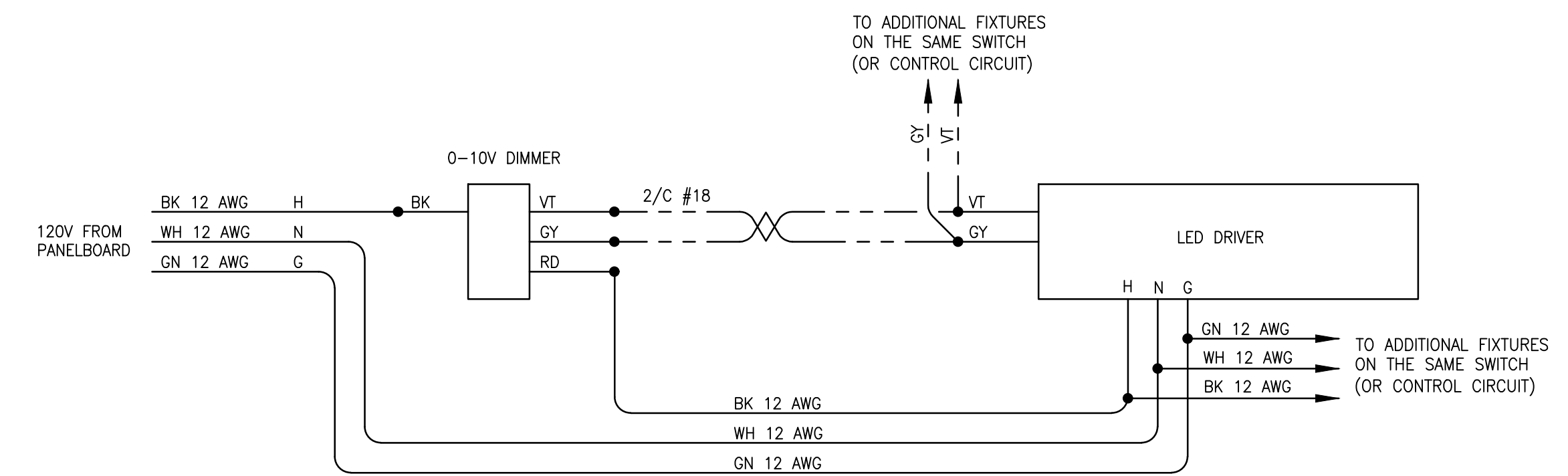
- 1 DISCONNECT FOR HOOD EXHAUST FAN, COORDINATE ALL ELECTRICAL REQUIREMENTS WITH HOOD SUPPLIED. SEE DRAWING M1.1.
- 2 PROVIDE CONTROL WIRING FOR HOOD SUPPRESSION SYSTEM, INCLUDING RANGE POWER SHUTDOWN AND GAS SUPPLY CUT-OFF VALVE.
- 3 SWITCH FOR DISPOSAL MOUNTED ABOVE COUNTER TOP.



ENLARGED KITCHEN POWER PLAN
SCALE: 3/8"=1'-0"

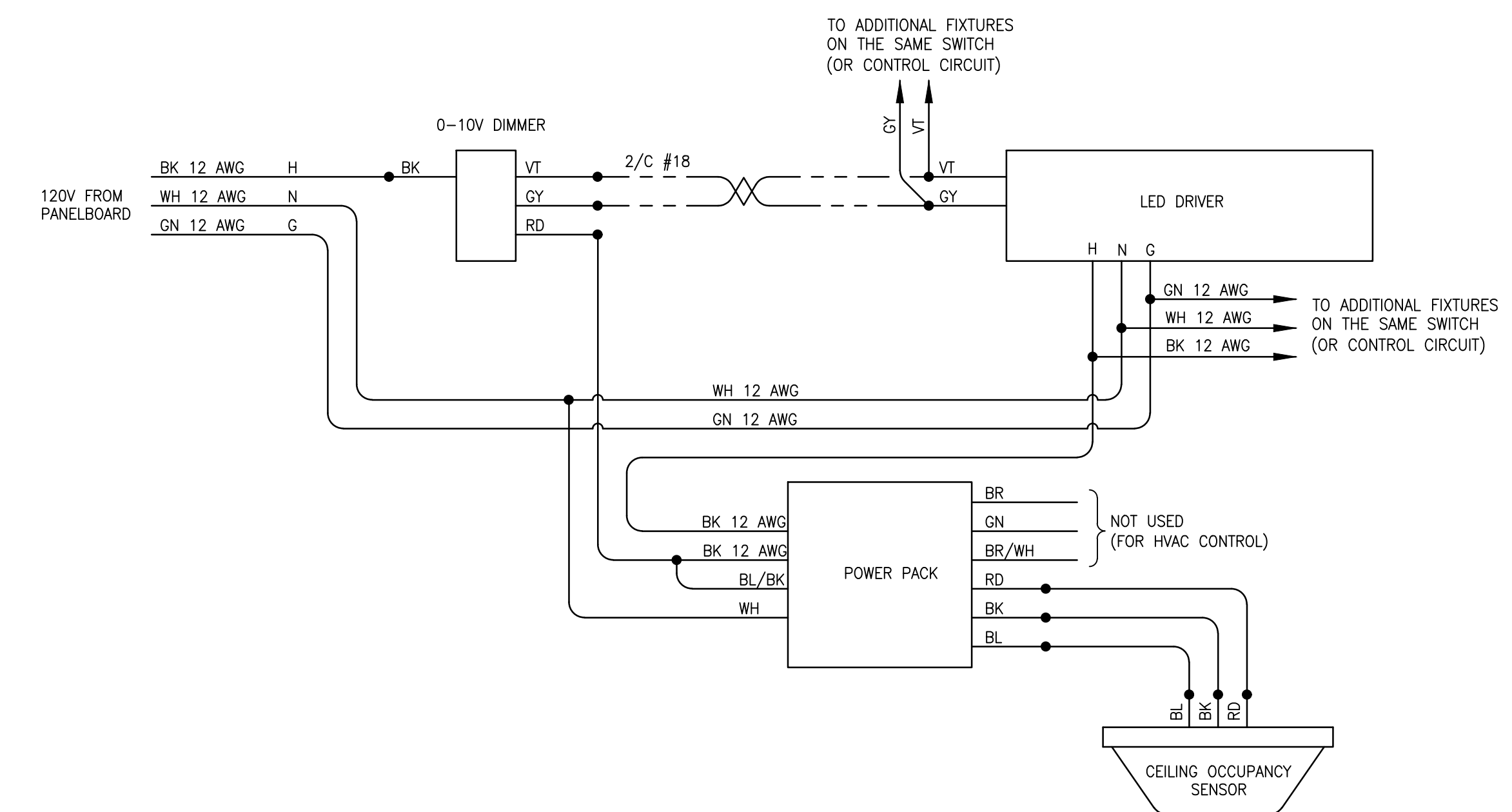


ATTIC LIGHTING AND POWER PLAN
SCALE: 3/16"=1'-0"



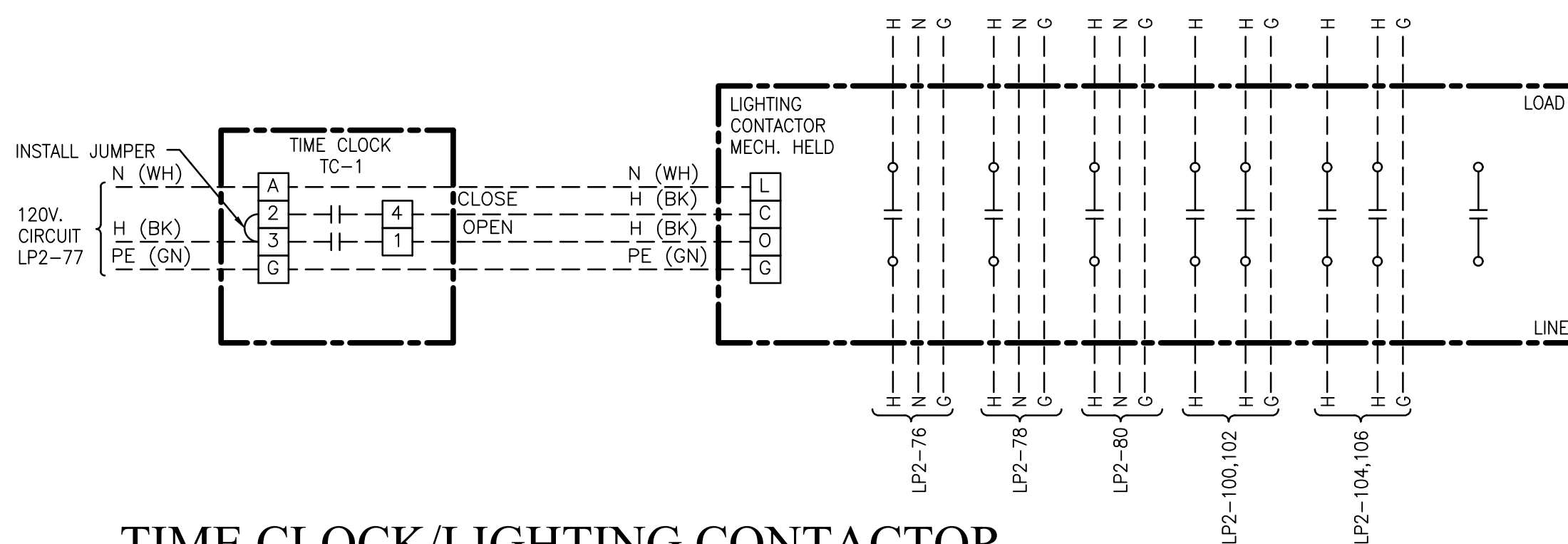
**WALL SWITCH/SENSOR WITH 0-10V DIMMING
WIRING DIAGRAM**

NONE



**OCCUPANCY SENSOR & 0-10V DIMMING
WIRING DIAGRAM**

NONE



**TIME CLOCK/LIGHTING CONTACTOR
WIRING DIAGRAM**

SCALE: NONE

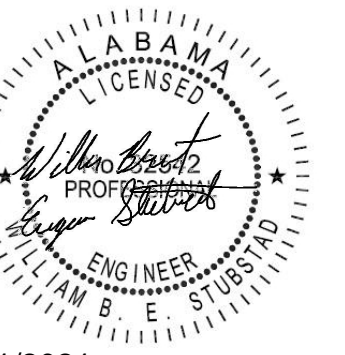
NOTE: TIME CLOCK/LIGHTING CONTACTOR WIRING 12 AWG
COLOR AS SHOWN. WIRING TO LIGHTS 10 AWG.



800 Azalea Pk. Mobile, AL 36689 (T) 251-480-4646 (F) 251-480-4645



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11/11/2021

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

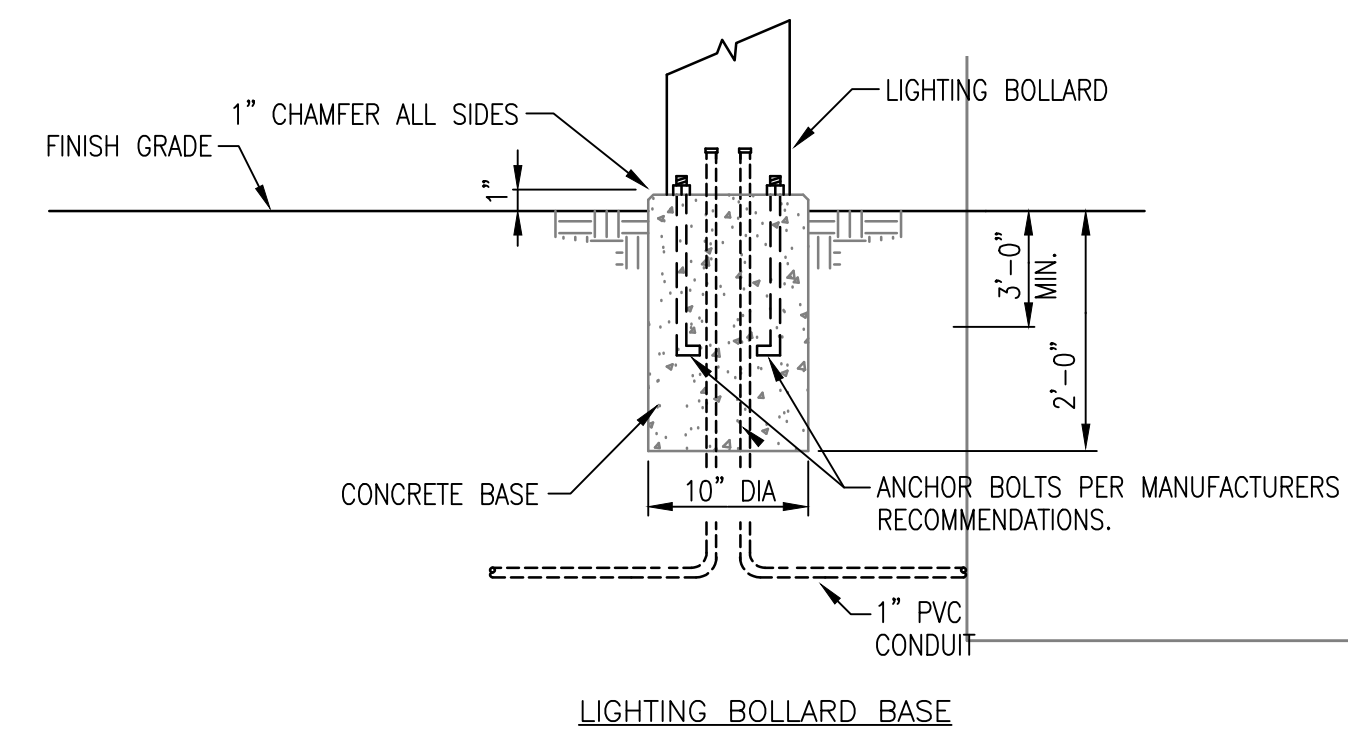
JOB NO.:
DRAWN: SS
CHECKED: BS
DATE: 2021.11.01
REVISION:

SCALE: NOTED

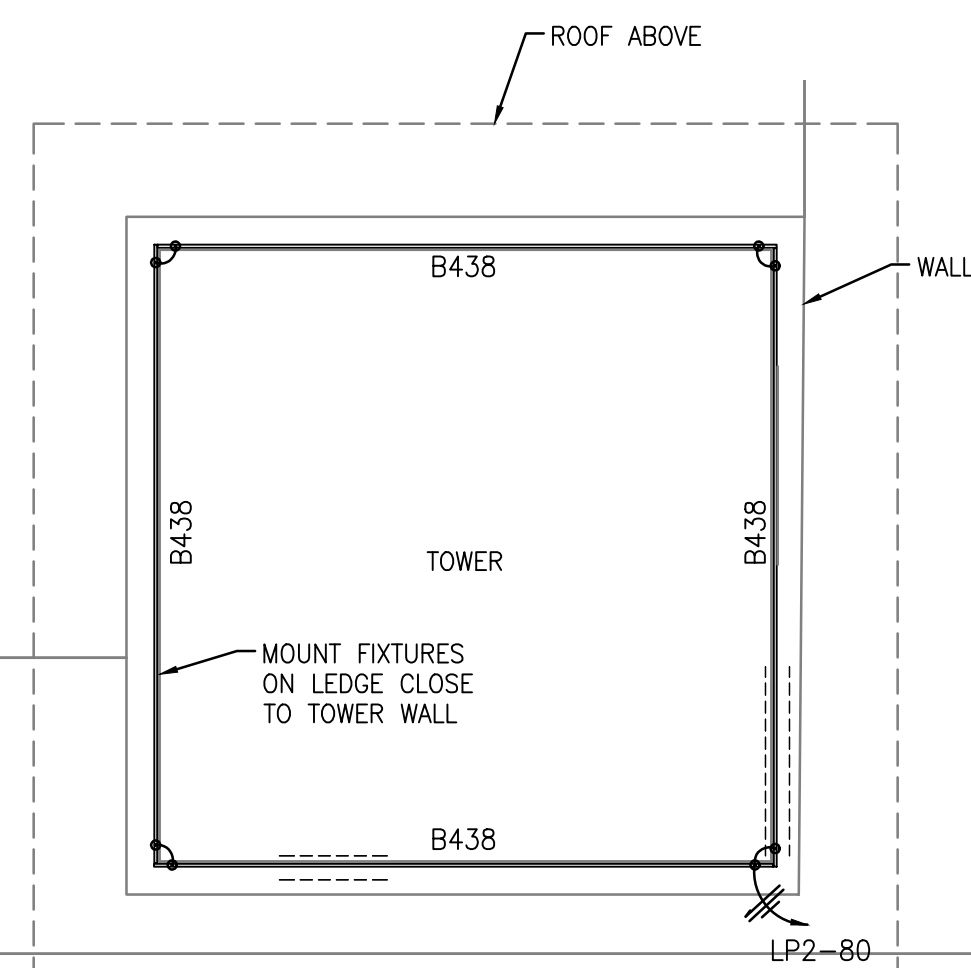
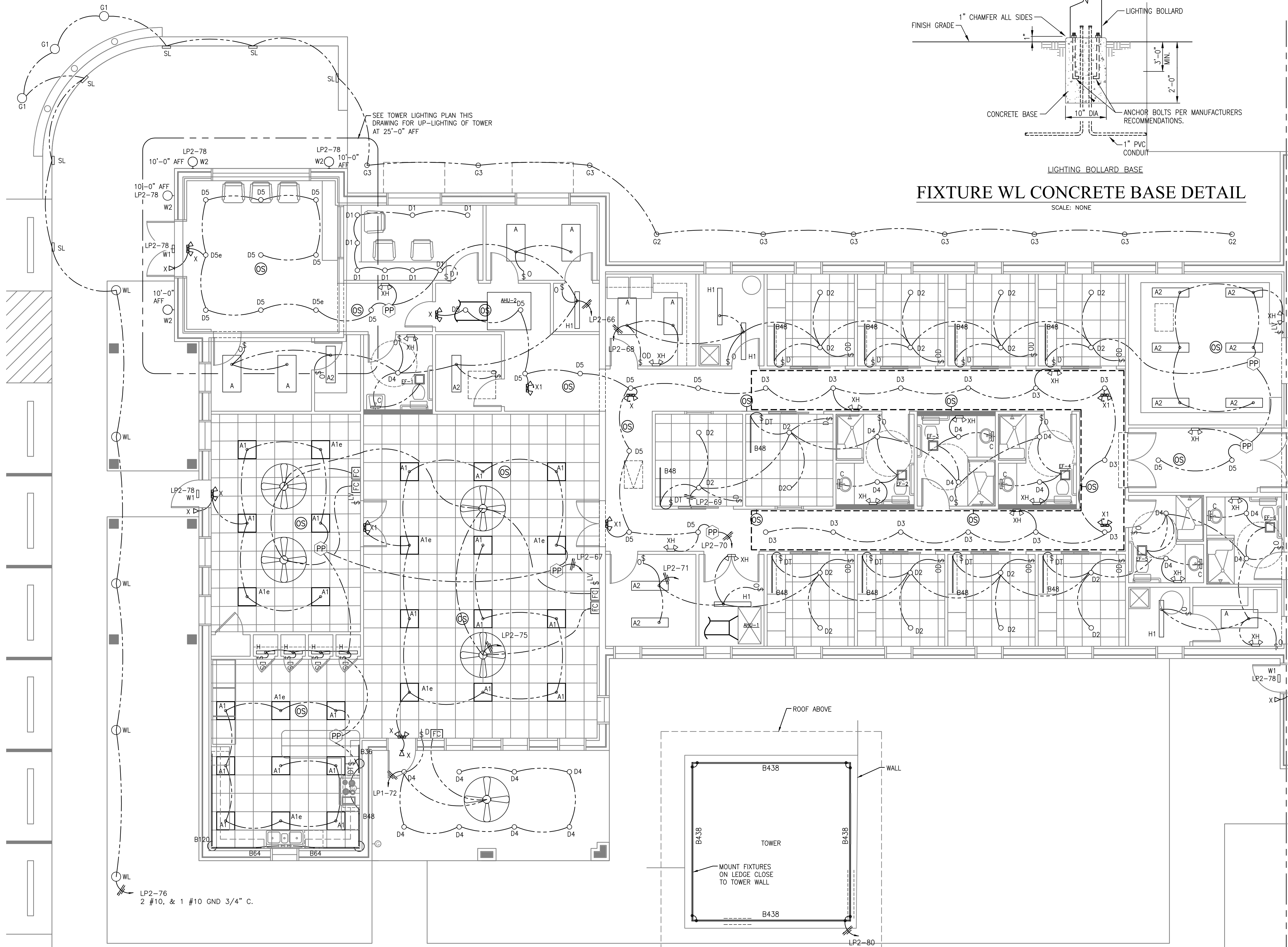
SHEET NO.:

E3.1

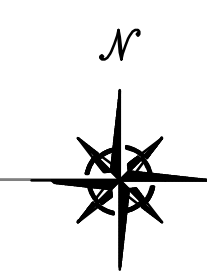
LIGHTING PLAN
SHEET 1 OF 2



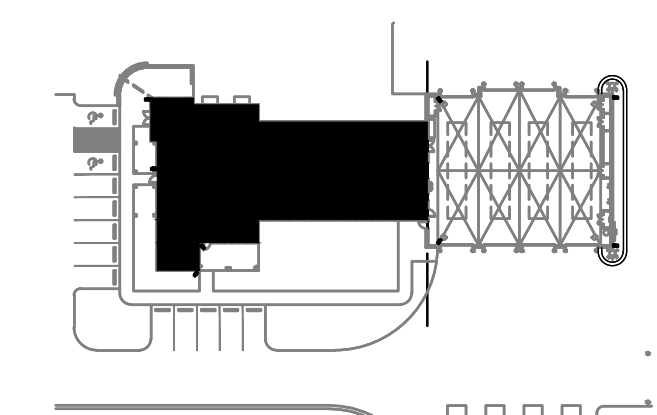
FIXTURE WL CONCRETE BASE DETAIL
SCALE: NONE



TOWER LIGHTING PLAN
SCALE: 3/16"=1'-0"

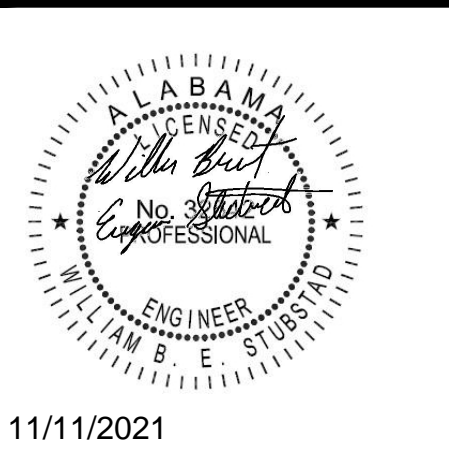


LIGHTING PLAN
SCALE: 3/16"=1'-0"



KEY PLAN



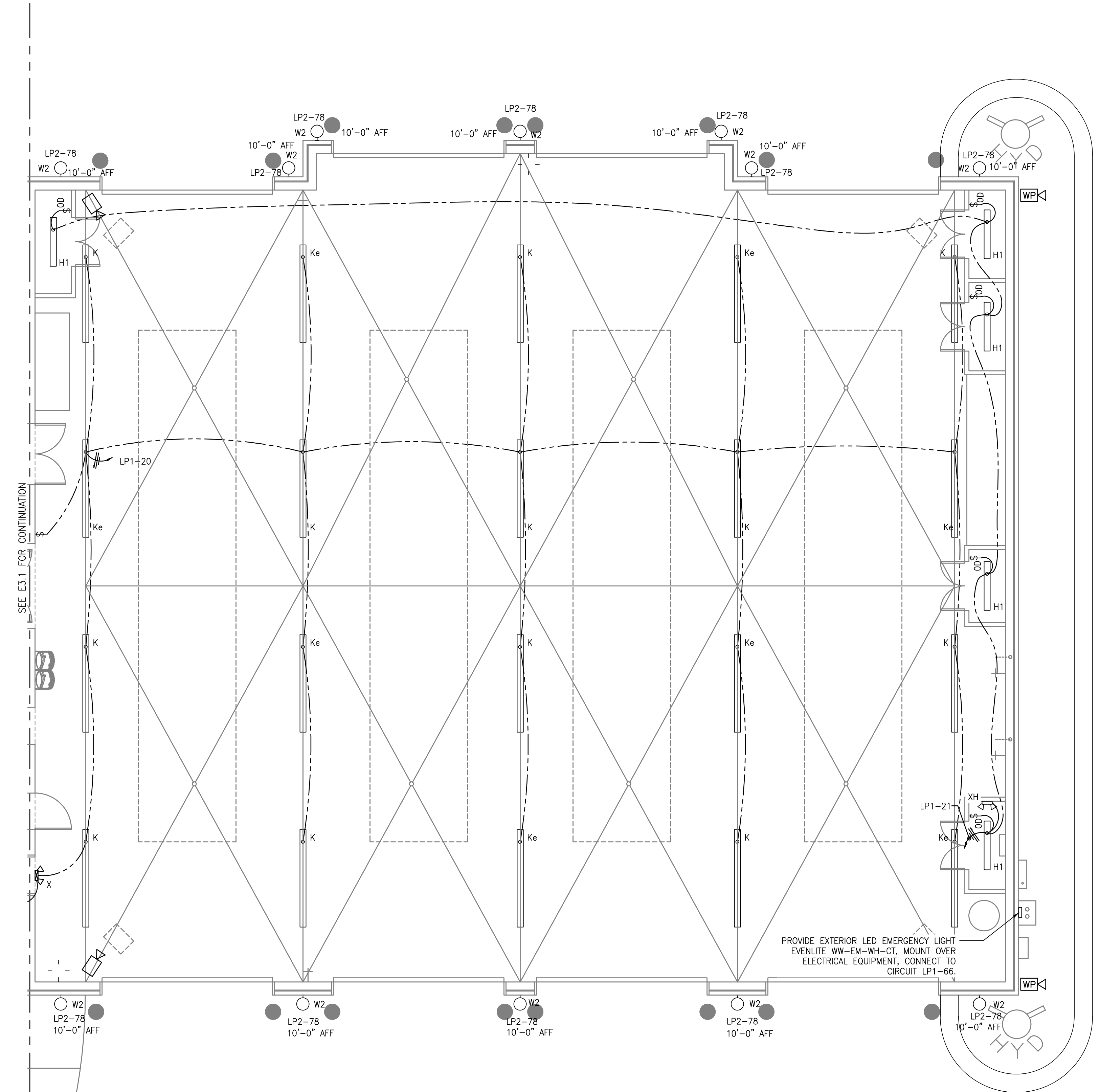


ORANGE BEACH
FIRE STATION NUMBER 5
 ORANGE BEACH
 ALABAMA

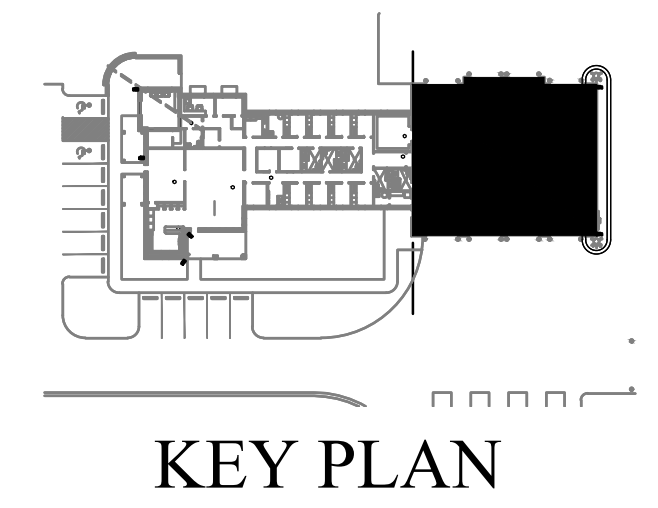
LIGHTING FIXTURE SCHEDULE

MARK	TYPE	VOLT	WATTS	LAMP	BRAND & CATALOG NO.
A	2x4 RECESSED LED EDGE LIT PANEL PROVIDE FRAME KIT WHERE SURFACE MOUNTED SFPSMK24	120	45	5601 LUMEN 4000K	LSI SFP24-LED-FS-UNV-DIM
A1	2x2 RECESSED LED EDGE LIT PANEL PROVIDE FRAME KIT WHERE SURFACE MOUNTED SFPSMK22	120	40	4608 LUMEN 4000K	LSI SFP22-LED-FS-UNV-DIM
A2	1x4 RECESSED LED EDGE LIT PANEL PROVIDE FRAME KIT WHERE SURFACE MOUNTED SFPSMK14	120	40	4671 LUMEN 4000K	LSI SFP14-LED-FS-UNV-DIM
B36	LED TAPE LIGHT IN ALUMINUM CHANNEL WITH LENS AND MOUNTING CLIPS 36" LENGTH	120	10.8	990 LUMEN 4000K	NORA NUTP13-W3-12-940/HW CHANNEL: NATL-C26W, MOUNTING CLIPS: NATL-IP6512, SURGE PROTECTOR NATL-IP65/SP
B48	LED TAPE LIGHT IN ALUMINUM CHANNEL WITH LENS AND MOUNTING CLIPS 48" LENGTH	120	14.4	1320 LUMEN 4000K	NORA NUTP13-W4-12-940/HW CHANNEL: NATL-C26W, MOUNTING CLIPS: NATL-IP6512, SURGE PROTECTOR NATL-IP65/SP
B64	LED TAPE LIGHT IN ALUMINUM CHANNEL WITH LENS AND MOUNTING CLIPS 64" LENGTH	120	19.2	1760 LUMEN 4000K	NORA NUTP13-W5-4-12-940/HW CHANNEL: NATL-C26W, MOUNTING CLIPS: NATL-IP6512, SURGE PROTECTOR NATL-IP65/SP
B120	LED TAPE LIGHT IN ALUMINUM CHANNEL WITH LENS AND MOUNTING CLIPS 120" LENGTH	120	36	3300 LUMEN 4000K	NORA NUTP13-W10-12-940/HW CHANNEL: NATL-C26W, MOUNTING CLIPS: NATL-IP6512, SURGE PROTECTOR NATL-IP65/SP
B438	LED TAPE LIGHT IN ALUMINUM CHANNEL WITH LENS AND MOUNTING CLIPS 438" (36'-6") LENGTH	120	132	12045 LUMEN 4000K	NORA NUTP13-W36-8-12-940/HW CHANNEL: NATL-C26W, MOUNTING CLIPS: NATL-IP6512, SURGE PROTECTOR NATL-IP65/SP
C	WALL MOUNTED LED VANITY LIGHT	120	14	1350 LUMEN 4000K	INDESSA 444-2LED7-WHT-40K-24
D1	RECESSED 6" DIAMETER DOWN LIGHT	120	14	1432 LUMEN 4000K	LSI LCD6-LED-14L-UNV-DIM1-40-NF-TR6R-SPC
D2	RECESSED 6" DIAMETER DOWN LIGHT 2 HOUR FIRE RATED HOUSING	120	12	1000 LUMEN 4000K	NORA HOUSING: NFBIC-6LMEATA TRIM: NLCBC2-651-6672-40-WW/10-LE4
D3	RECESSED 6" DIAMETER DOWN LIGHT	120	42	4123 LUMEN 4000K	LSI LCD6-LED-41L-UNV-DIM1-40-NF-TR6R-SPC
D4	RECESSED 6" DIAMETER DOWN LIGHT DAMP LOCATION WITH REGRESSED LENS	120	22	2500 LUMEN 4000K	LSI LCD6-LED-25L-UNV-DIM1-40-NF-TR6RL-SPC
D5	RECESSED 6" DIAMETER DOWN LIGHT	120	32	3224 LUMEN 4000K	LSI LCD6-LED-32L-UNV-DIM1-40-NF-TR6R-SPC
H	2 FOOT SURFACE MOUNTED STRIP WITH LENS	120	12.5	1500 LUMEN 4000K	LSI SDL2-LED-15L-FL-UNV-40-80
H1	4 FOOT SURFACE MOUNTED STRIP WITH LENS	120	30	4000 LUMEN 4000K	LSI SDL4-LED-40L-FL-UNV-40-80
K	8 FOOT LED VAPOR TIGHT BAY WITH DIFFUSED ACRYLIC LENSE	120	75	10,650 LUMEN 4000K	LSI EG3-8-LED-11L-DA-S-UNV-DIM-40-80-SL
Ke	8 FOOT LED VAPOR TIGHT BAY WITH DIFFUSED ACRYLIC LENS AND 1400 LUMEN EMERGENCY BACKUP	120	75	10,650 LUMEN 4000K	LSI EG3-8-LED-11L-DA-S-UNV-DIM-40-80-EM-SL
W1	WALL MOUNTED LED EXTERIOR	120	15	2,145 LUMEN 4000K	LSI XWS-2L-LED-FTW-UNV-DIM-40-80CRI-WHT-BB-EH MOUNTED 6" ABOVE DOOR.
W2	WALL MOUNTED CYLINDER LED EXTERIOR	120	26	3,000 LUMEN 4000K	BASELIGHT CYUB816-51-2-LED25W-40K-120/277V MOUNTED 10'-0" AFF.
WL	WALKWAY LIGHTING BOLLARD INSTALL ON CONCRETE BASE PER MANUFACTURERS DIRECTION	120	13.5	1370 LUMEN 4000K	NAFCO 42-RDBC-15-40-MV-2-DB-SRG-277-10
X	EXIT SIGN WITH LIGHT AND BATTERY PACK, AND REMOTE HEAD	120	15	AS SUPPLIED	EVENLITE TCXCOM-2X2-R-U-W-SD-PRWLED1-MV AND PRWLED1-MV-HL-SD
X1	EXIT SIGN WITH LIGHT AND BATTERY PACK	120	15	AS SUPPLIED	EVENLITE TLP-R-2U-W-SD
G1	GROUND MOUNTED LED UP LIGHT 15 DEGREE OPTICS, DIRECT BURIED, INSTALL PER MANUFACTURERS DIRECTIONS	120	36	4,000 LUMEN 4000K	TECHLIGHT TDBX-213-15DO-4L-NW-D-CE-TDBXPK
G2	GROUND MOUNTED LED UP LIGHT 45 DEGREE OPTICS, DIRECT BURIED, INSTALL PER MANUFACTURERS DIRECTIONS	120	25	2,500 LUMEN 4000K	TECHLIGHT TDBX-213-15DO-25L-NW-D-CE-TDBXPK
G3	GROUND MOUNTED LED UP LIGHT 40 DEGREE OPTICS, DIRECT BURIED, INSTALL PER MANUFACTURERS DIRECTIONS	120	25	2,500 LUMEN 4000K	TECHLIGHT TDBX-213-15DO-25L-NW-D-CE-TDBXPK
P1	POLE MOUNTED AREA LIGHT	208	135	19,462 LUMEN 4000K	LSI MRM-LED-18L-SIL-FT-UNV-40-70CRI
P2	POLE MOUNTED AREA LIGHT	208	135	19,324 LUMEN 4000K	LSI MRM-LED-18L-SIL-3-UNV-40-70CRI
SL	RECESSED STEP LIGHT	120	3	252 LUMEN 3000K	COLE L506W-47
XH	EMERGENCY LIGHT WITH BATTERY PACK	120	15	252 LUMEN 3000K	EVENLITE TEBL3W

"NL" INDICATES NIGHT LIGHT, FIXTURE TO BE UNSWITCHED.
 NOTE 1. ALL LIGHTING FIXTURE FINISHES SHALL BE APPROVED BY ARCHITECT PRIOR TO PURCHASE.



LIGHTING PLAN
 SCALE: 3/16"=1'-0"



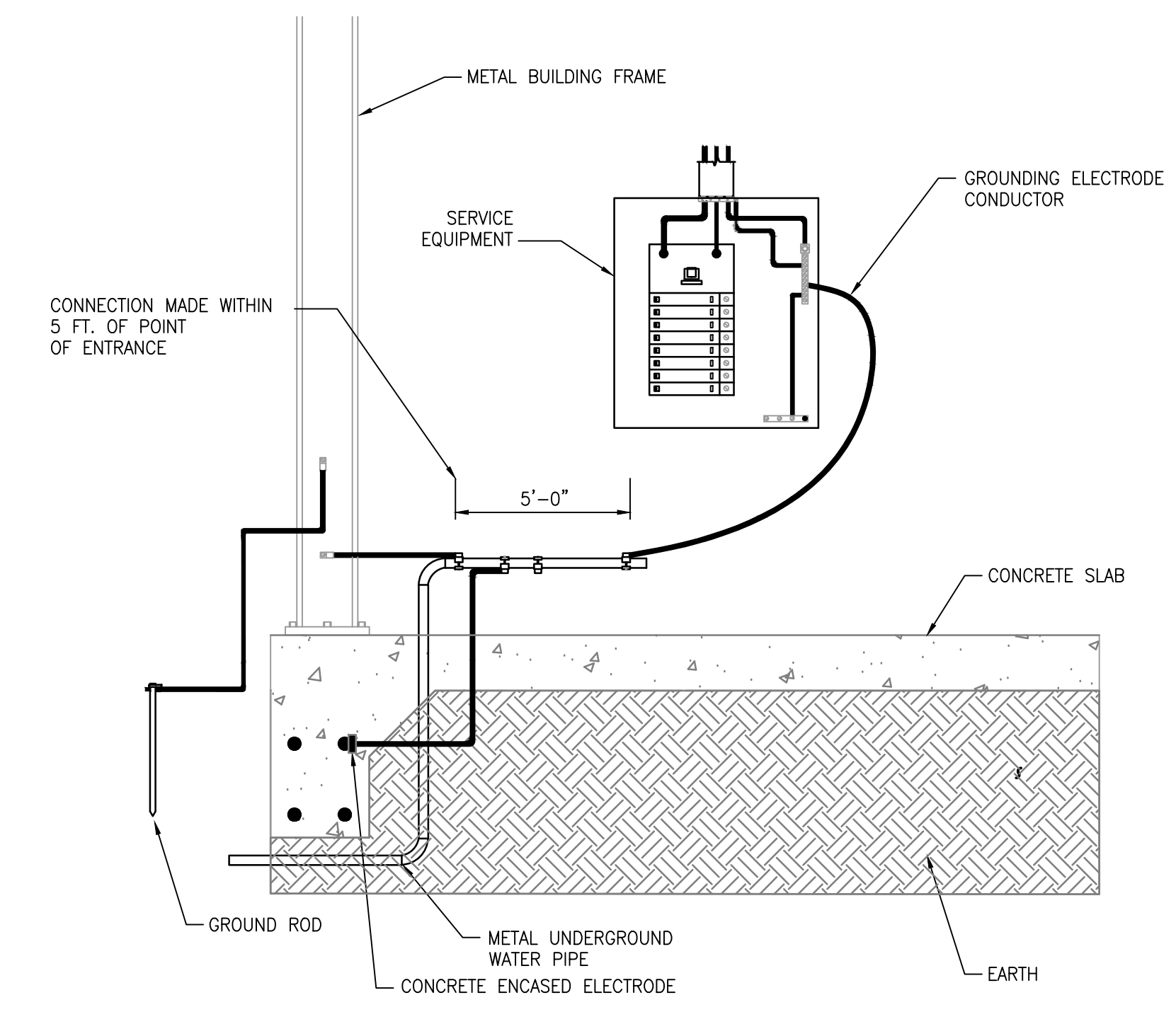
JOB NO.:	
DRAWN:	SS
CHECKED:	BS
DATE:	2021.11.01
REVISION:	
SCALE:	NOTED
SHEET NO.:	E3.2
LIGHTING PLAN SHEET 2 OF 2	

120/208 PANEL MDP

120/208Y VOLT, 3 PHASE, 4 WIRE, 60HZ			NEMA 3R SURFACE MOUNT		
LOCATION	LOAD (VA)	CIRCUIT NUMBER	CIRCUIT NUMBER	LOAD (VA)	LOCATION
PANEL LP1	24466	1	2	24397	PANEL LP2
	20968	3	4	25557	
	22290	5	6	29154	
GENERATOR JACKET HEATER	2000	7	8	34947	PANEL ME
	2000	9	10	31227	
GENERATOR BATTERY CHARGER	180	11	12	31099	
SPARE	-	13	14	-	SPARE
	-	15	16	-	
	-	17	18	-	
SPARE	-	19	20	-	SPARE
	-	21	22	-	SPARE
SPARE	-	23	24	-	SPARE
	-	25	26	-	SPACE
SPACE	-	27	28	-	SPACE
	-	29	30	-	SPACE
SPACE	-	31	32	-	SPACE
	-	33	34	-	SPACE
SPACE	-	35	36	-	SPACE
	-	37	38	200	TVSS
SPACE	-	39	40	200	
	-	41	42	200	

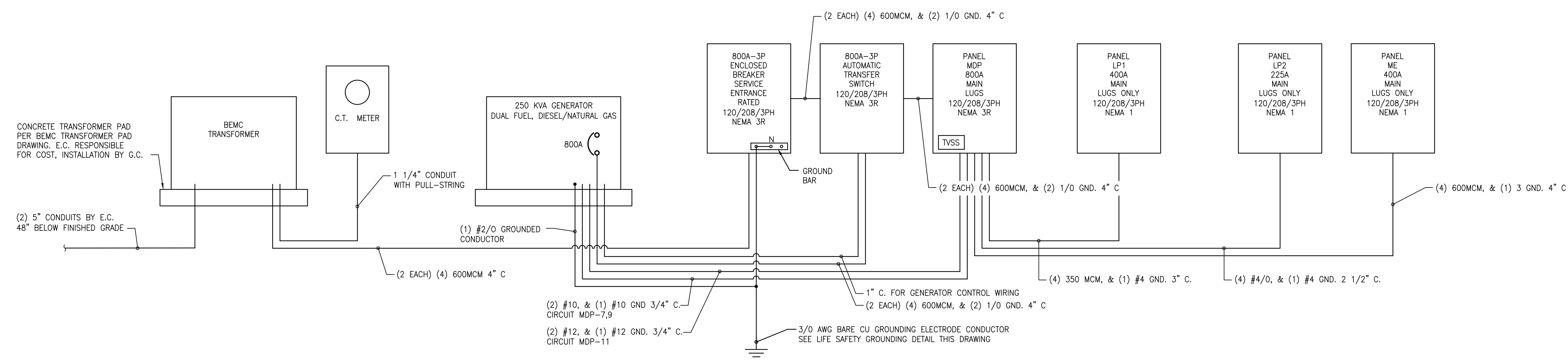
NOTE: CONTRACTOR SHALL VERIFY SHORT CIRCUIT RATING OF PANELBOARD/BREAKERS IS SUFFICIENT WITH UTILITY PRIOR TO PURCHASING EQUIPMENT.
 6 G 8 INDICATES GFCI TYPE BREAKER.

Type of Load	VA LOAD PER PHASE			Calculations		
	A	B	C	Total VA	MULTIPLIER	VA LOAD
O Other Loads	2,000	4,980	2500	9,480	1.25	11,850
ON Other Load Non Cont	2,230	8,004	8079	18,313	1	18,313
R Receptacles	21,460	14,008	18720	54,188	1	10,000
Receptacles > 10,000					0.5	22,094
K Kitchen	-	-	-	-	0.65	-
E Existing Load	-	-	-	-	1.25	-
L Lighting	4,662	3,022	3174	10,858	1.25	13,573
H Heating Only	33,087	33,087	30591	96,766	1	96,766
C Cooling Only	11,799	10,959	10447	33,204	1	-
M Motors	10,492	5,692	9132	25,316	1	25,316
Total Load (VA)	85,730	79,752	82,644			
Balance	35%	32%	33%			
Largest Motor				14,500	0.25	3,625
Total Load (VA)				248,126		201,537
Current (Amps)				689		559



1 LIFE SAFETY GROUNDING DETAIL
 SCALE: NONE

NOTE:
 PER NEC ARTICLE 250 SECTION III 250.50 ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(6) THAT ARE AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(7) SHALL BE INSTALLED AND USED. ALL WELDS ARE TO BE CAD WELD UNLESS OTHERWISE SPECIFIED.



RISER DIAGRAM

NOTE: ALL CONDUCTORS SHALL BE COPPER.

McCOLLOUGH ARCHITECTURE, INC.
 P.O. BOX 6310
 GULF SHORES, ALABAMA 36547-6310
 PHONE: 251-968-7222

Professional Engineer
 No. 32542
 PROFESSIONAL
 ENGINEER
 B. E. STURTEVANT
 11/11/2021

**ORANGE BEACH
 FIRE STATION NUMBER 5
 ORANGE BEACH
 ALABAMA**

JOB NO.:
 DRAWN: SS
 CHECKED: BS
 DATE: 2021.11.01
 REVISION:

SCALE: NONE

SHEET NO.:

E4.1

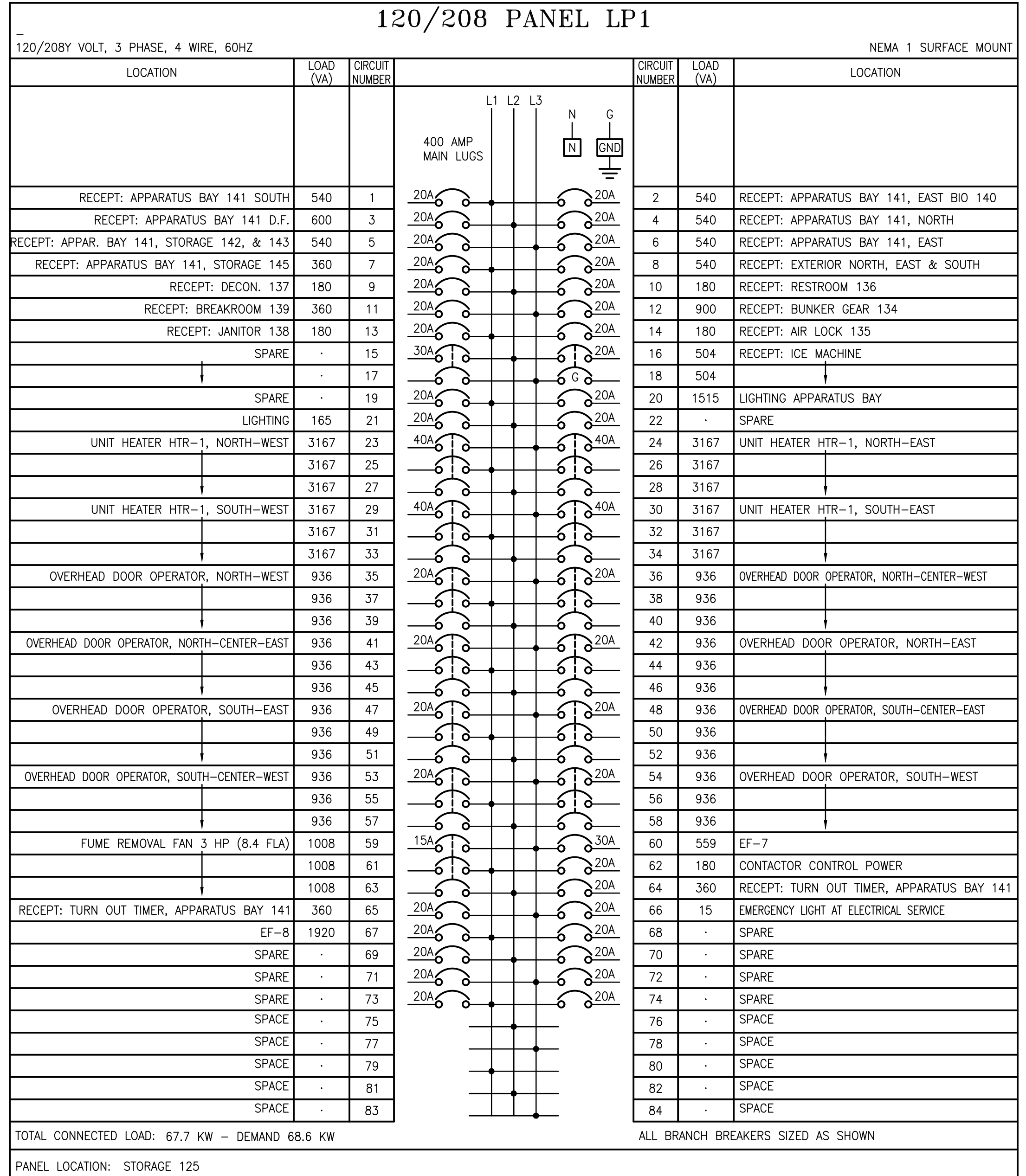
& RISER DIAGRAM
 PANEL SCHEDULES



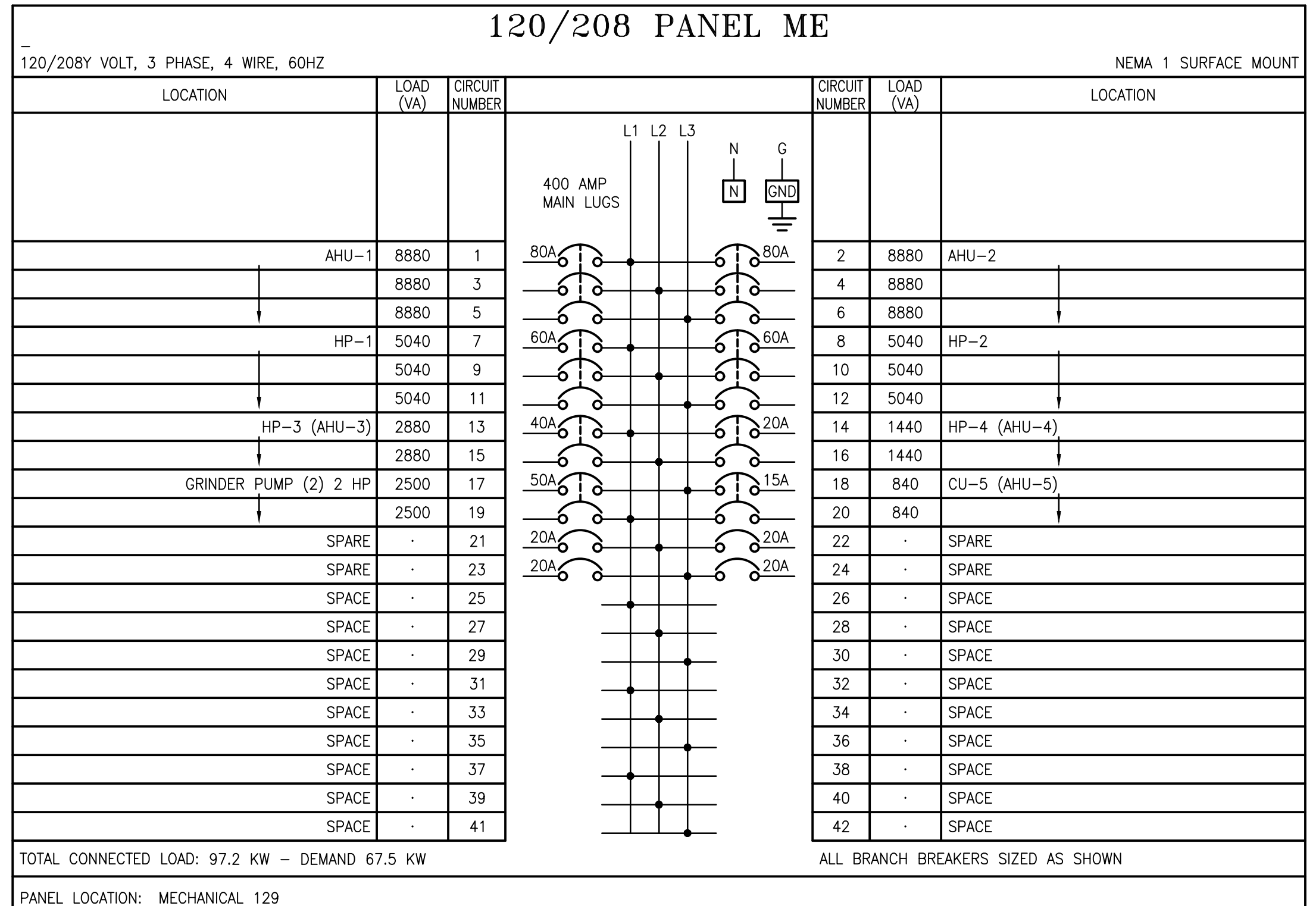


ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
 ALABAMA

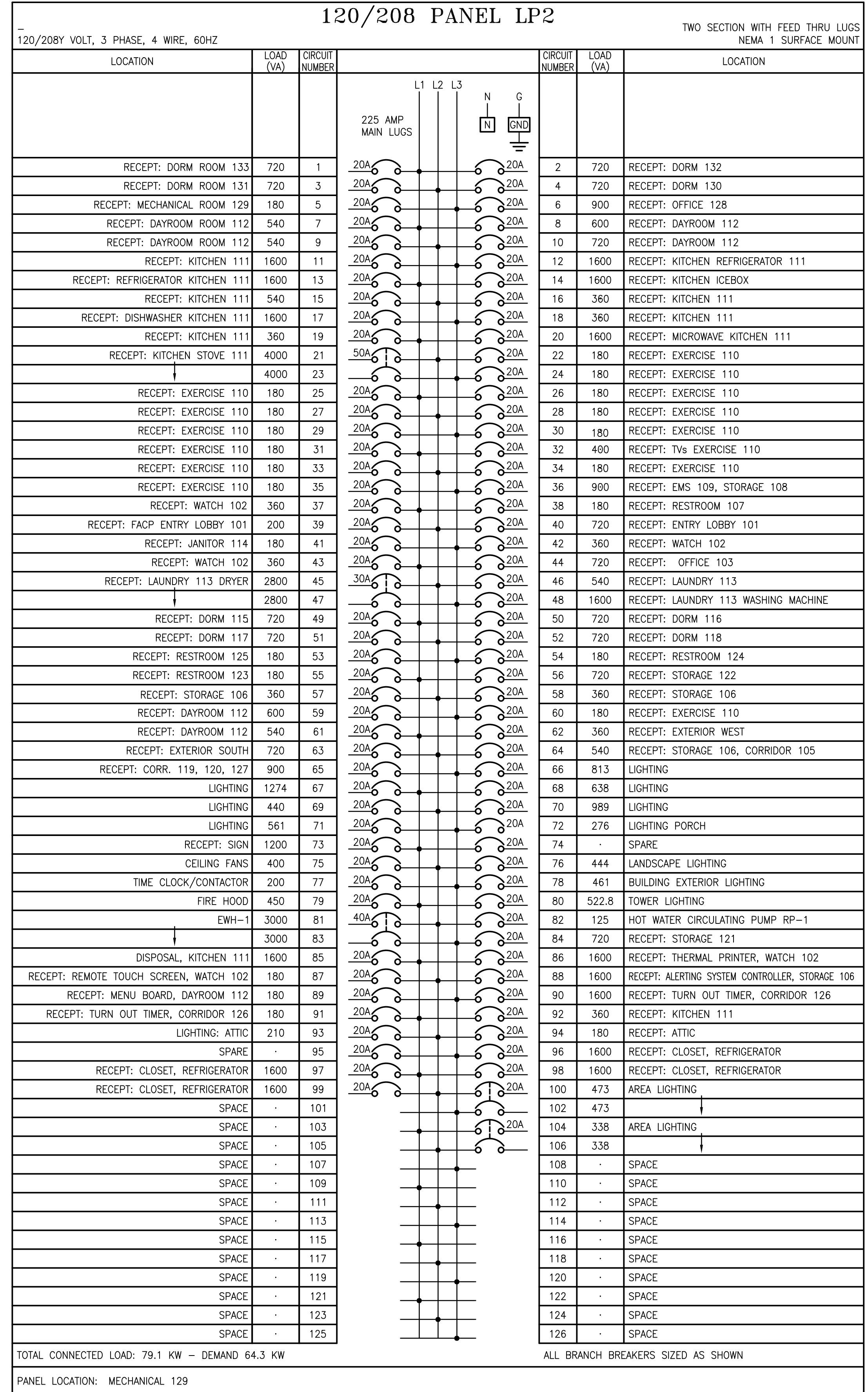
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 DATE: 2021.11.01
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 SHEET NO.:
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 PANEL SCHEDULES



NOTE: CONTRACTOR SHALL VERIFY SHORT CIRCUIT RATING OF PANELBOARD/BREAKERS IS SUFFICIENT WITH UTILITY PRIOR TO PURCHASING EQUIPMENT.
 Ⓞ INDICATES GFCI TYPE BREAKER.



NOTE: CONTRACTOR SHALL VERIFY SHORT CIRCUIT RATING OF PANELBOARD/BREAKERS IS SUFFICIENT WITH UTILITY PRIOR TO PURCHASING EQUIPMENT.
 Ⓞ INDICATES GFCI TYPE BREAKER.



NOTE: CONTRACTOR SHALL VERIFY SHORT CIRCUIT RATING OF PANELBOARD/BREAKERS IS SUFFICIENT WITH UTILITY PRIOR TO PURCHASING EQUIPMENT.





11/12/2021

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH ALABAMA

JOB NO.:
DRAWN: SS
CHECKED: ML
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

T1.1
TELECOMMUNICATIONS
PLAN SHEET 1 OF 2

KEYED NOTES:

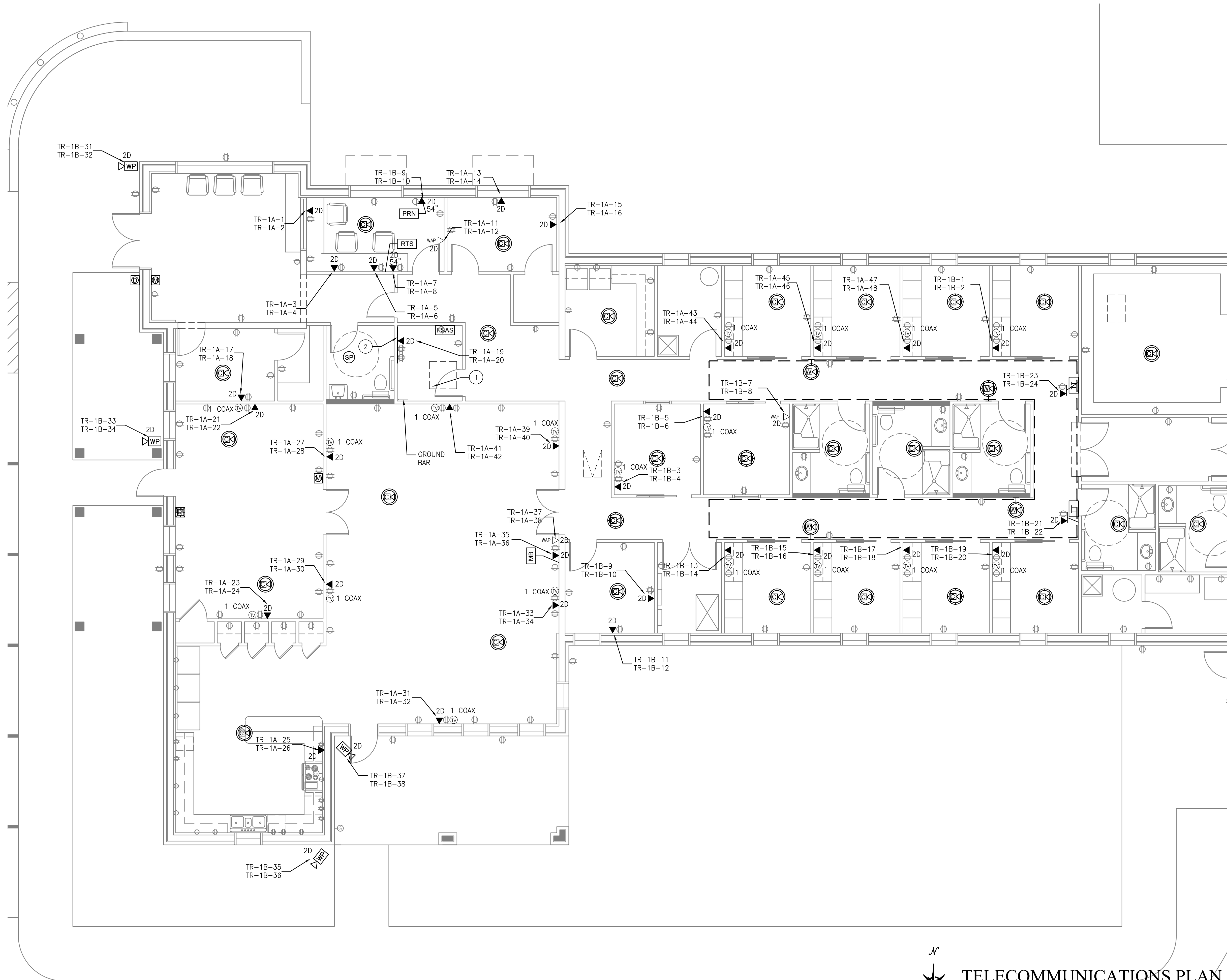
- 1 PROVIDE I.T. RACK (SIZED AS REQUIRED) WITH PUNCH DOWN BLOCKS AND PATCH PANEL. PUNCH DOWN ALL CAT6 CABLES.
- 2 48"x48"x3/4" PLYWOOD TELEPHONE BACKBOARD, PROVIDE #6 CU GROUNDING CONDUCTOR FROM BACKBOARD TO SERVICE ENTRANCE POINT GROUNDING BUS.

LEGEND

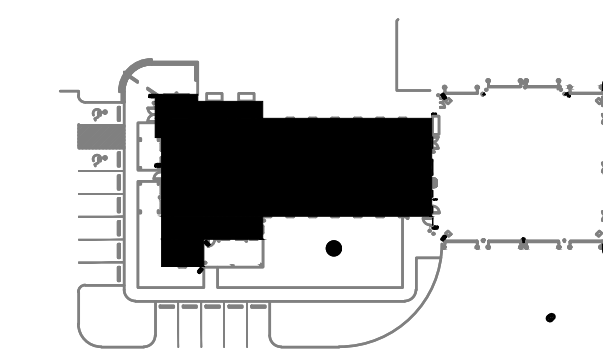
- FSAS ALERTING SYSTEM CONTROLLER RACK LOCATION.
- PRN ALERTING SYSTEM THERMAL PRINTER. PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
- RTS REMOTE TOUCH SCREEN. PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
- Interior ceiling speaker, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Interior wall speaker, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Interior ceiling speaker and led lights, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Interior wall speaker and led lights, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Apparatus bay and external high power speaker, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Ceiling mounted red strobe light, provide 4x4 ceiling box with 3/4" c. to alerting system controller rack.
- MB MESSAGE BOARD. PROVIDE SINGLE GANG WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
- TT TURN OUT TIMER. PROVIDE SINGLE GANG WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
- Doorbell pushbutton, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Manual pushbutton, provide 4x4 wall box with 3/4" c. to alerting system controller rack.
- Volume control, provide 4x4 wall box with 3/4" c. to alerting system controller rack.

- NOTES:
1. SEE E1.1 FOR ADDITIONAL TELECOMMUNICATIONS SYMBOLS.
 2. E.C. TO PROVIDE ALL CONDUIT, FITTINGS, AND BOXES FOR PURVIS SYSTEMS STATION ALERTING SYSTEM.
 3. ALL ALERTING SYSTEM COMMUNICATIONS CABLING AND SPEAKER CABLING PROVIDED AND INSTALLED BY PURVIS SYSTEMS.

SEE T1.2 FOR CONTINUATION

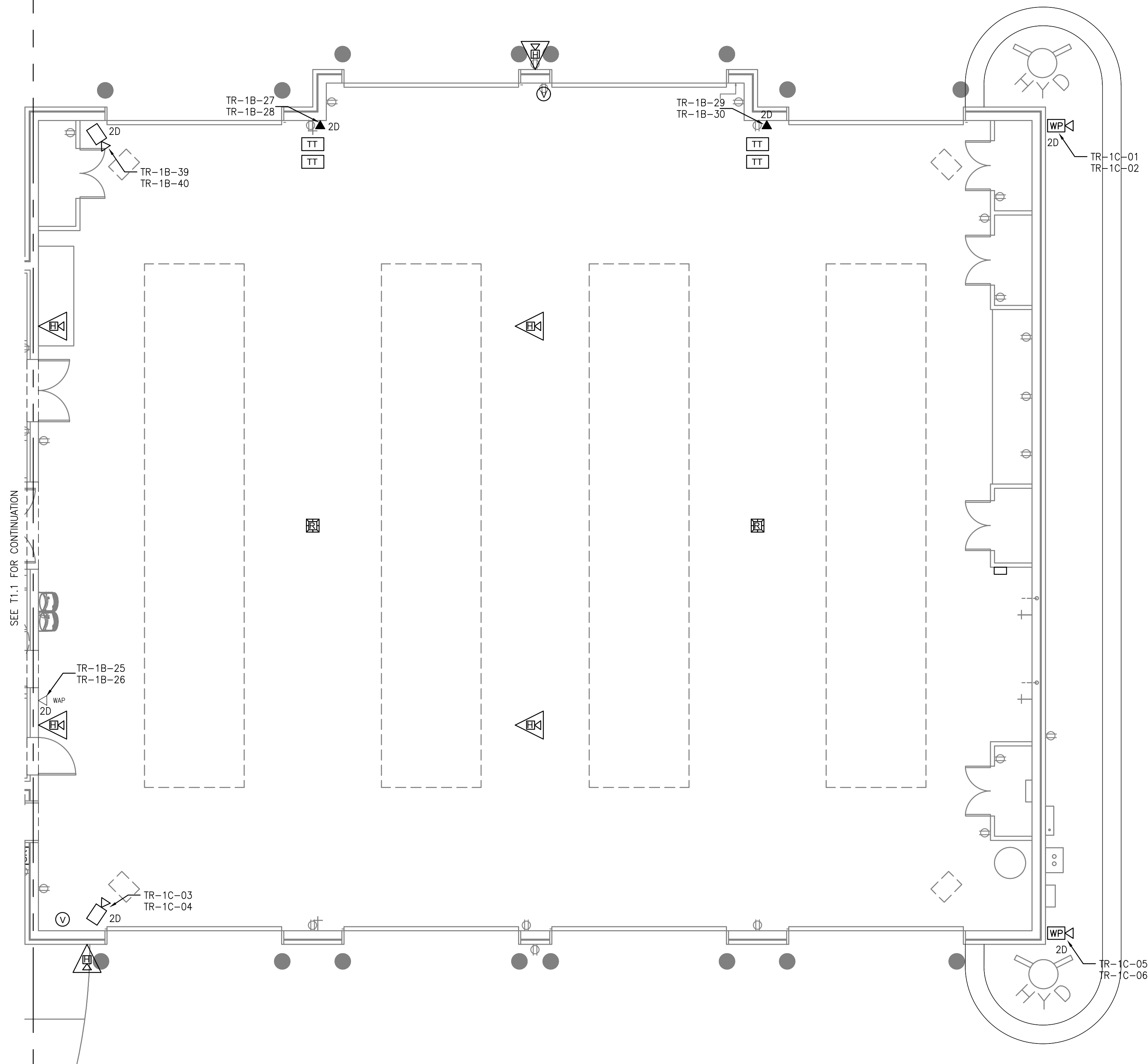


TELECOMMUNICATIONS PLAN
SCALE: 3/16"=1'-0"



KEY PLAN






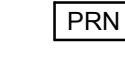











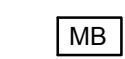
SEE T1.1 FOR CONTINUATION



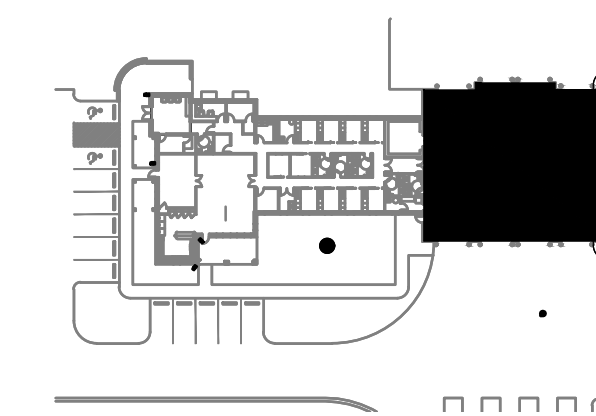
TELECOMMUNICATIONS PLAN

SCALE: 3/16"=1'-0"

LEGEND

-  ALERTING SYSTEM CONTROLLER RACK LOCATION.
-  ALERTING SYSTEM THERMAL PRINTER, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  REMOTE TOUCH SCREEN, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  INTERIOR CEILING SPEAKER, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  INTERIOR WALL SPEAKER, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  INTERIOR CEILING SPEAKER AND LED LIGHTS, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  INTERIOR WALL SPEAKER AND LED LIGHTS, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  APPARATUS BAY AND EXTERNAL HIGH POWER SPEAKER, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  CEILING MOUNTED RED STROBE LIGHT, PROVIDE 4x4 CEILING BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  MESSAGE BOARD, PROVIDE SINGLE GANG WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  TURN OUT TIMER, PROVIDE SINGLE GANG WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  DOORBELL PUSHBUTTON, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  MANUAL PUSHBUTTON, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.
-  VOLUME CONTROL, PROVIDE 4x4 WALL BOX WITH 3/4" C. TO ALERTING SYSTEM CONTROLLER RACK.

- NOTES:
1. SEE E1.1 FOR ADDITIONAL TELECOMMUNICATIONS SYMBOLS.
 2. E.C. TO PROVIDE ALL CONDUIT, FITTINGS, AND BOXES FOR PURVIS SYSTEMS STATION ALERTING SYSTEM.
 3. ALL ALERTING SYSTEM COMMUNICATIONS CABLING AND SPEAKER CABLING PROVIDED AND INSTALLED BY PURVIS SYSTEMS.



KEY PLAN



**McColough
ARCHITECTURE, INC.**
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



11/12/2021

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

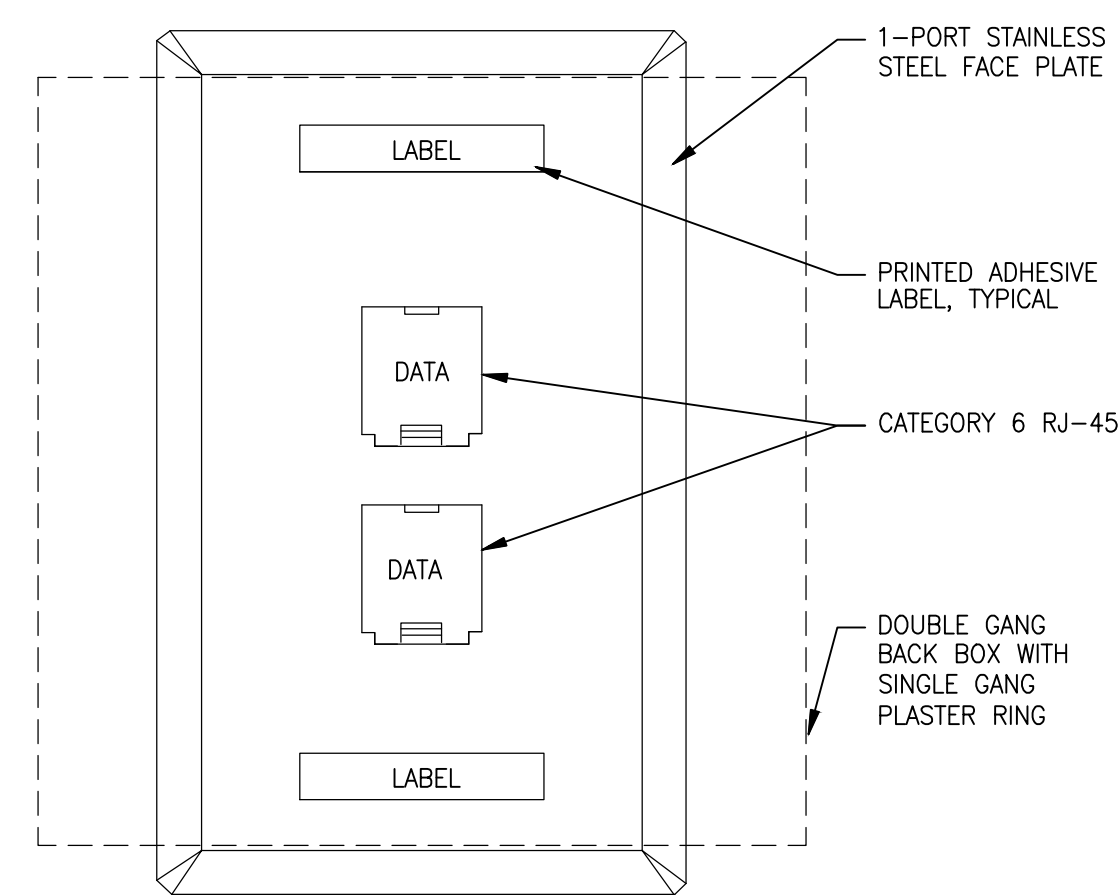
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REVISION:	

SCALE: NOTED

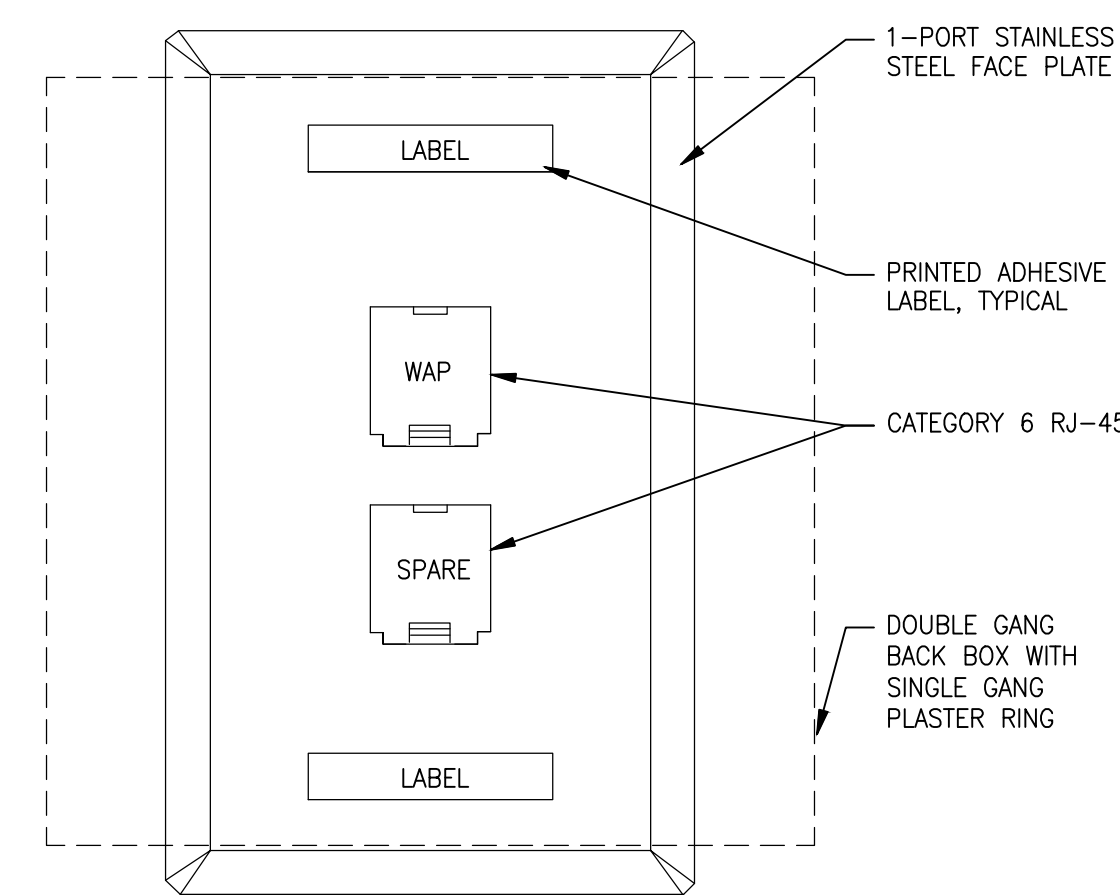
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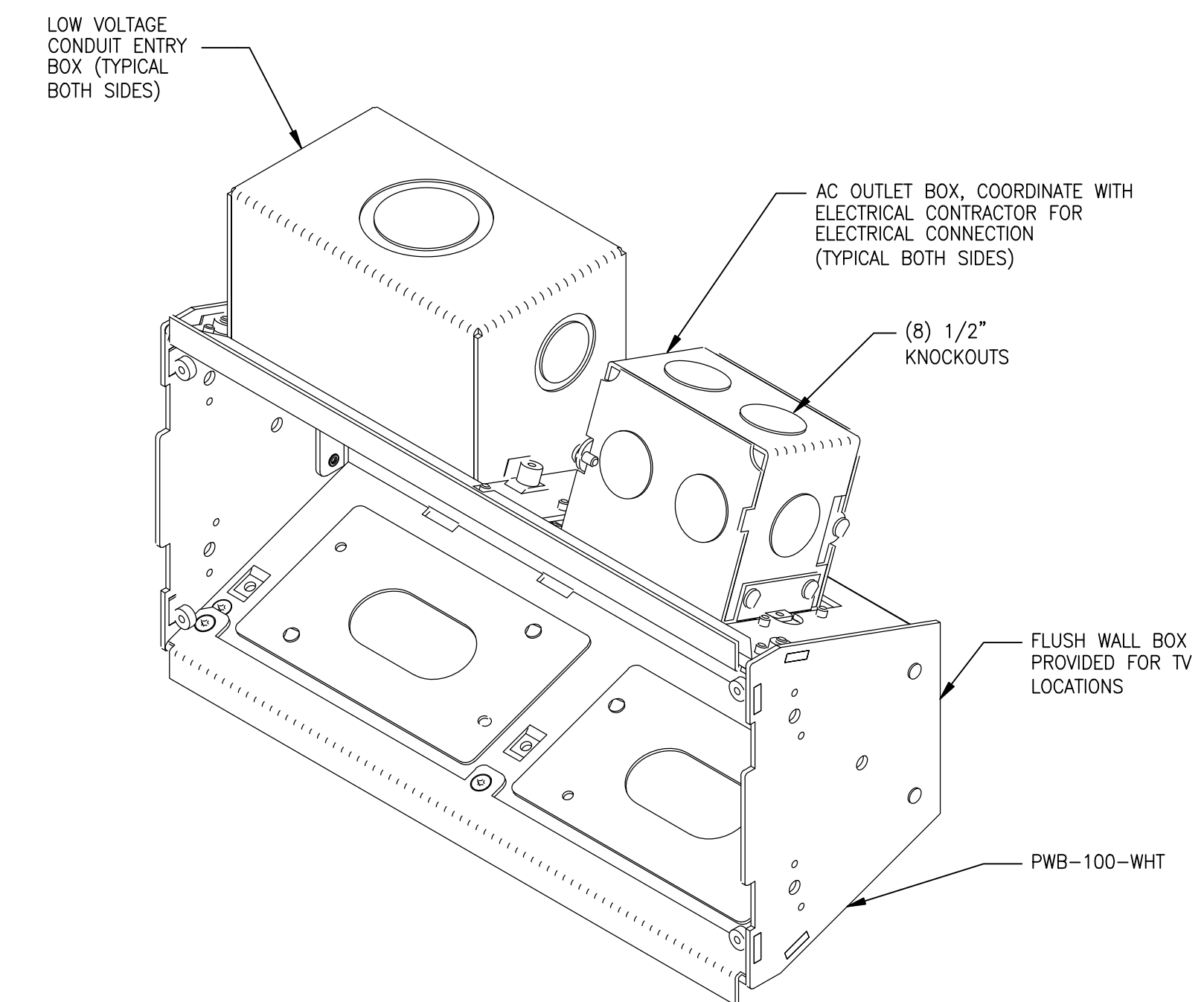
TELECOMMUNICATIONS
PLAN SHHET 2 OF 2



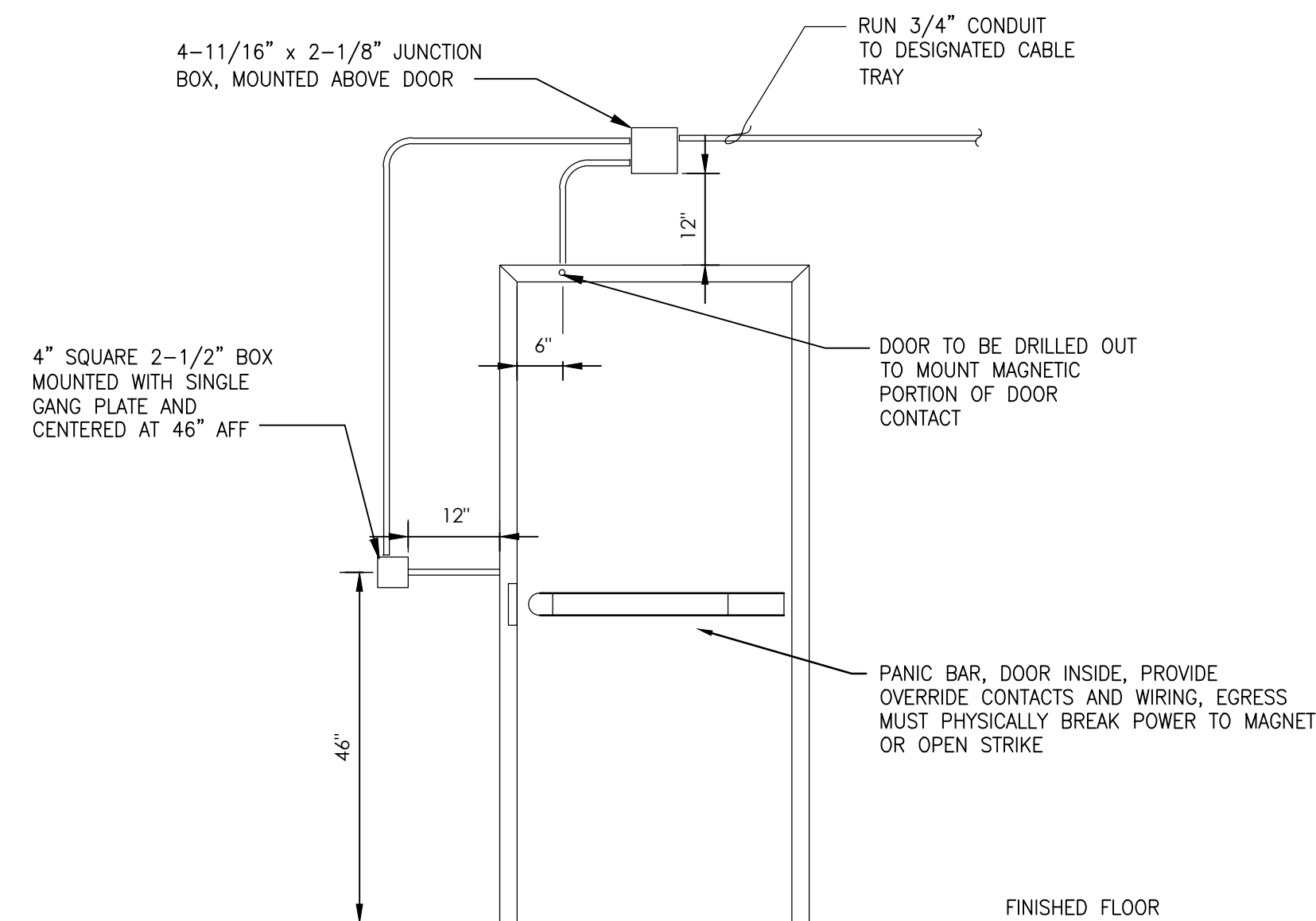
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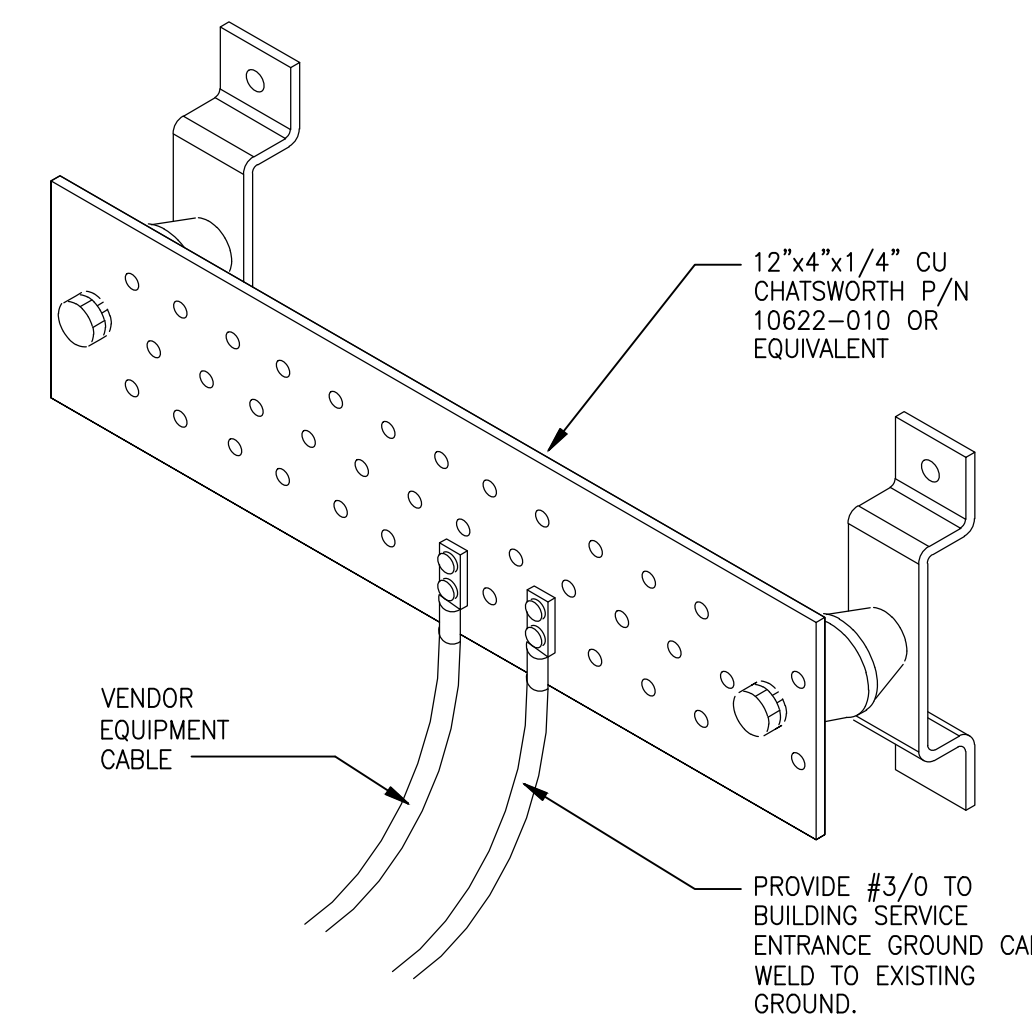
WAP ▶ WAP OUTLET



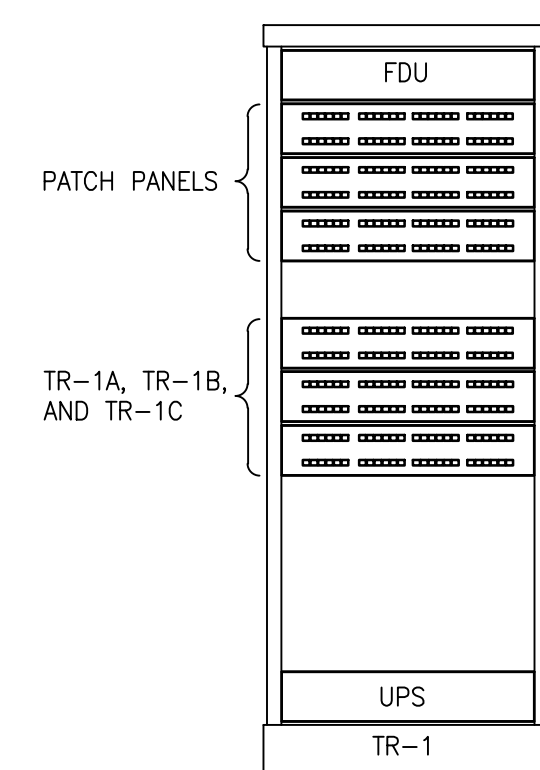
TV ▲ TV WALL OUTLET
MOUNTED AT 60" AFF



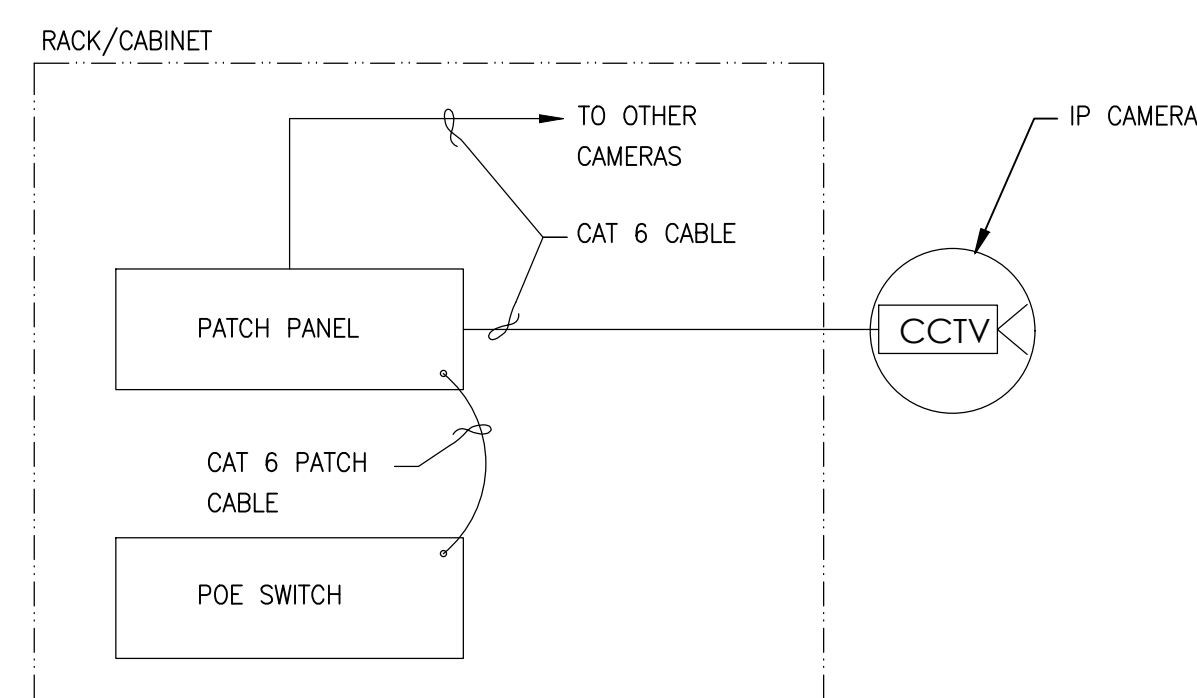
CR ACCESS CONTROL



GROUNDING BAR



RACK LAYOUT



SECURITY CAMERA

ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA

JOB NO.:
DRAWN: SS
CHECKED: ML
DATE: 2021.11.01
REVISION:

SCALE: NONE

SHEET NO.:

T1.3

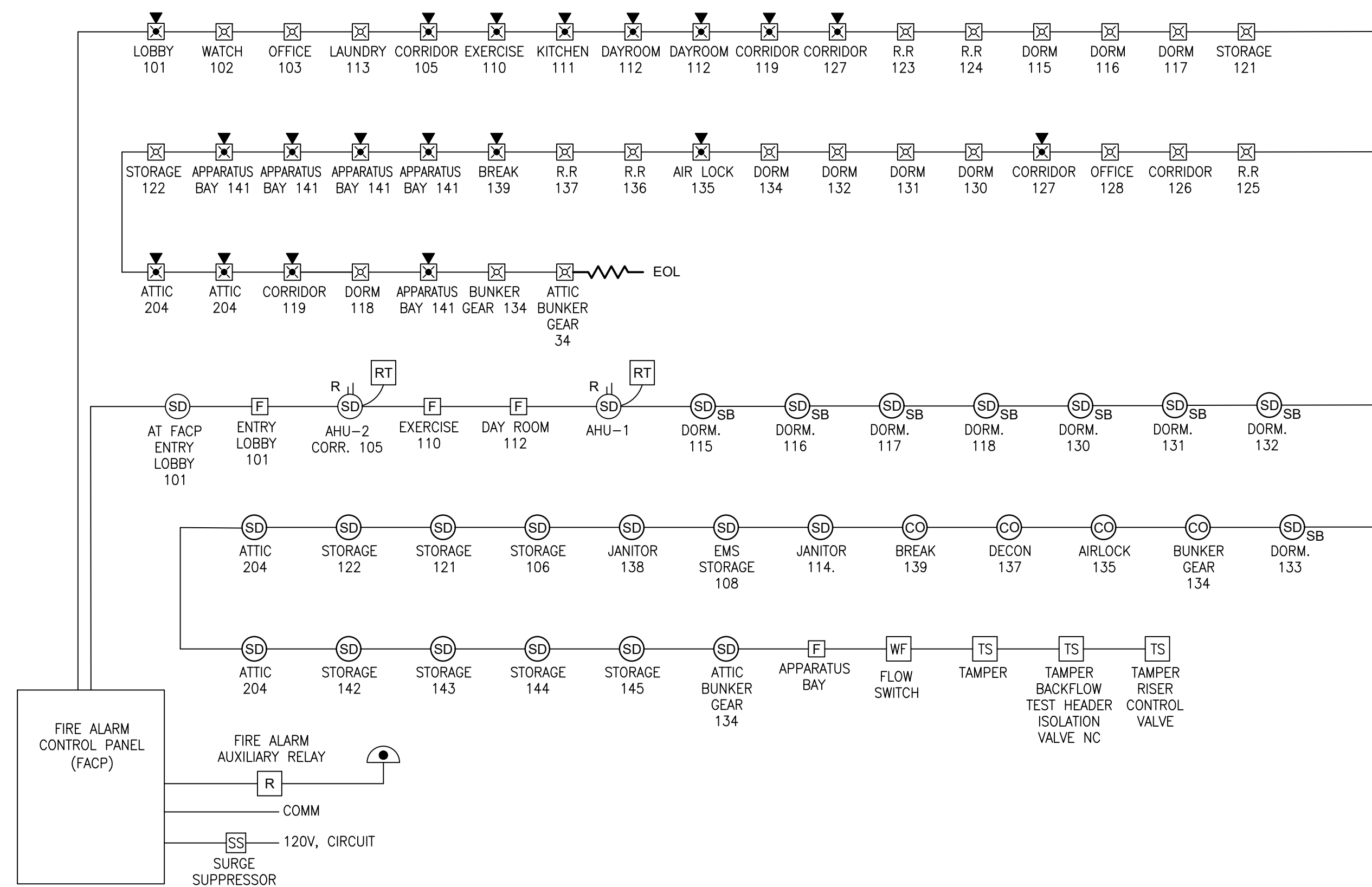
TELECOMMUNICATIONS
DETAILS

FIRE ALARM NOTES

- CONTRACTOR SHALL PROVIDE A NEW DEDICATED FUNCTION SUPERVISING STATION FIRE ALARM SYSTEM TO SUPERVISE THE TAMPER(S) AND FLOW SWITCH ON THE SPRINKLER RISER.
- THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS IS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE FIRE PROTECTION ENGINEER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
- CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO SUBMISSION FOR PERMIT. SUBMITTAL PACKAGE TO BE IN COMPLETE COMPLIANCE WITH SECTION 907 OF THE INTERNATIONAL FIRE CODE - 2018 EDITION. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
- THE POWER CIRCUIT TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER. CIRCUIT BREAKER SHALL HAVE A RED MARKING, LOC-ON PROVISIONS AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. THIS REQUIREMENT APPLIES TO ALL NAC CIRCUIT EXTENDER PANELS. OBTAINING POWER FROM THE FIRE ALARM POWER CIRCUIT IS PERMITTED IF THE LOAD ALLOWS.
- UPDATE THE AS-BUILT DRAWINGS DAILY WITH THE JOB PROGRESS. RETURN THE AS-BUILT DRAWING SET TO THE GENERAL CONTRACTOR NO LATER THAN 7 DAYS AFTER THE SUCCESSFUL FINAL TEST.
- THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMANLIKE MANNER.
- DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TECHNICAL REPRESENTATIVE.
- ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
- THE FIRE ALARM INSTALLER WILL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ANY TIME THAT WORK IS NOT ACTIVELY BEING PERFORMED.
- INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND NEC.
- FIRE ALARM CIRCUITS SHALL BE IDENTIFIED IN ACCORDANCE WITH APPROPRIATE SECTION OF THE NEC 760. MARK ALL FIRE ALARM WIRES IN ACCORDANCE WITH NEC 760 SECTIONS FOR POWER LIMITED AND NON-POWER LIMITED WIRE.
- FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUM AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
- FIRE ALARM CABLE INSTALLED IN THE VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL RUNS IN SHAFTS SHALL BE TYPE FPLR.
- FIRE ALARM CABLE INSTALLED IN UNDERGROUND CONDUIT, OR OTHER WET LOCATIONS SHALL BE UL LISTED FOR WET LOCATIONS.
- FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUNNING OUTDOOR SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 725, AND 800 WHERE APPLICABLE.
- ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY FOR THE FULL LENGTH OF THE WIRE.
- ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
- 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.
- MAINTAIN 40 PERCENT CONDUIT FILL RATIOS AS PER NEC REQUIREMENTS.
- ALL WIRES SHALL BE PULLED SPLICE FREE AND SHALL TERMINATE ON SCREW TERMINALS AT DEVICES OR PANELS.
- ALL WIRING SHALL BE SOLID COPPER AND INSTALLED IN CONDUIT. INSTALLATION TO COMPLY WITH NFPA 70 (NEC).
- PROVIDE NEW CONDUIT THAT IS A MINIMUM OF 3/4 INCH THAT HAS A FACTORY APPLIED RED FINISH.
- CO ALARM AUDIBLE SIGNAL TO BE DISTINCT FROM FIRE ALARM AUDIBLE SIGNAL.

FIRE ALARM LEGEND

- (SD) CEILING MOUNTED SMOKE DETECTOR
- (S) CEILING MOUNTED SMOKE DETECTOR, 120V. WITH BATTERY BACK UP INTERCONNECTED, ALL DETECTORS IN LIVING UNITS SOUND ALARM WHEN ONE IS ACTIVATED.
- (SD) AIR DUCT SMOKE DETECTOR, W/EXTRA SET OF CONTACTS
S=SUPPLY, R=RETURN
- (RT) DUCT SMOKE DETECTOR REMOTE TEST STATION
- (WP) WEATHER PROOF HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (WP) WEATHER PROOF FLUSH MOUNTED PULL STATION
- (H) HORN STROBE 15cd UNLESS OTHERWISE NOTED
- (H) STROBE 15cd UNLESS OTHERWISE NOTED
- (SD) SMOKE DETECTOR WITH SOUNDER BASE
- (CO) CARBON MONOXIDE DETECTOR
- (F) FLUSH MOUNTED PULL STATION
- (F) WP WEATHER PROOF FLUSH MOUNTED PULL STATION
- (WF) WATER FLOW SWITCH
- (SS) SURGE SUPPRESSOR
- (TS) TAMPER SWITCH
- (R) AUXILIARY RELAY
- (FACP) FIRE ALARM CONTROL PANEL
- (ANN) FIRE ALARM REMOTE ANNUCIATOR (COORDINATE EXACT LOCATION W/OWNER, MUST BE IN A CONSTANTLY ATTENDED LOCATION)
- (FCPS) FIELD CHARGING POWER SUPPLY
- (120V) 120V WATERFLOW BELL

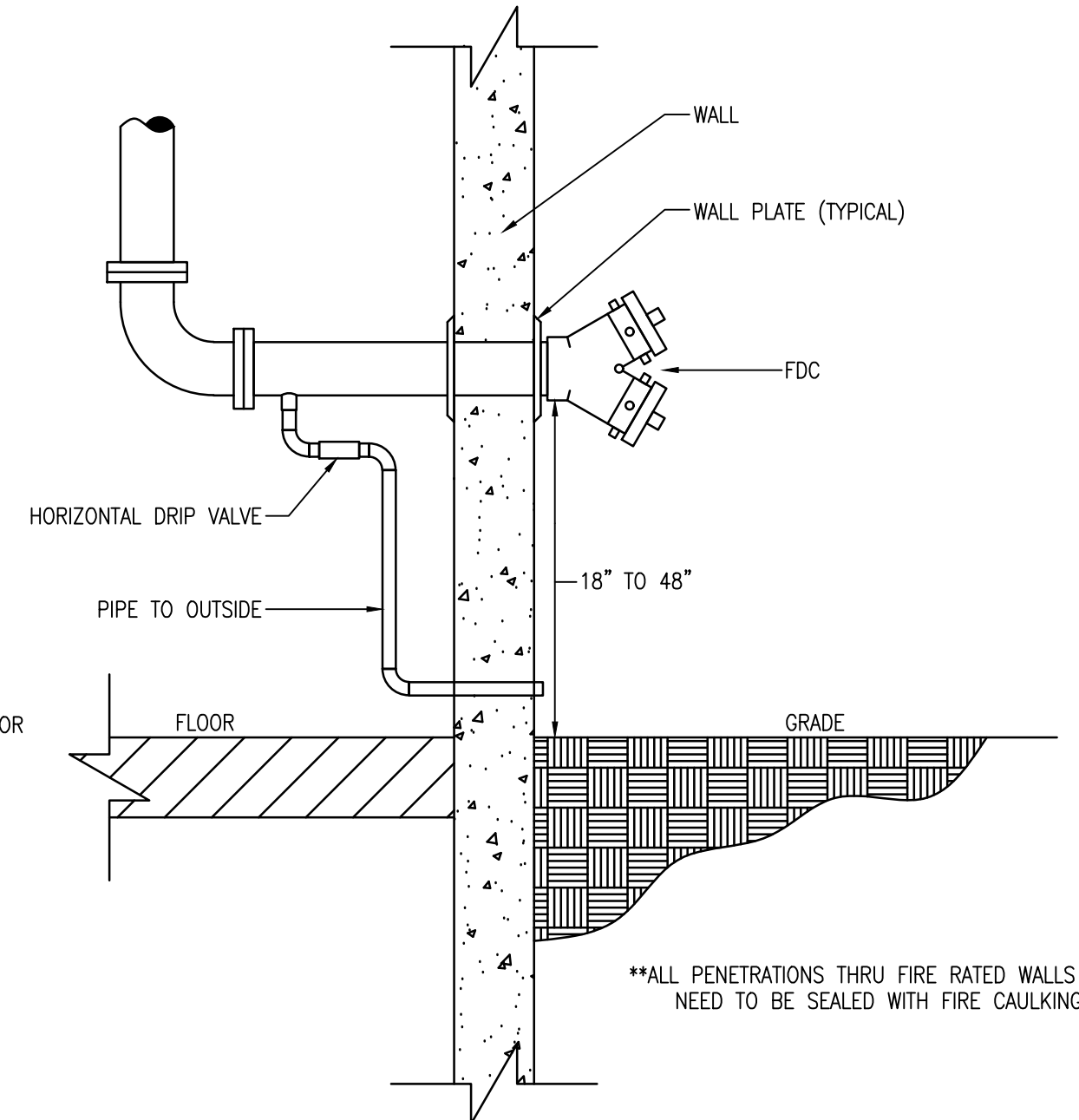
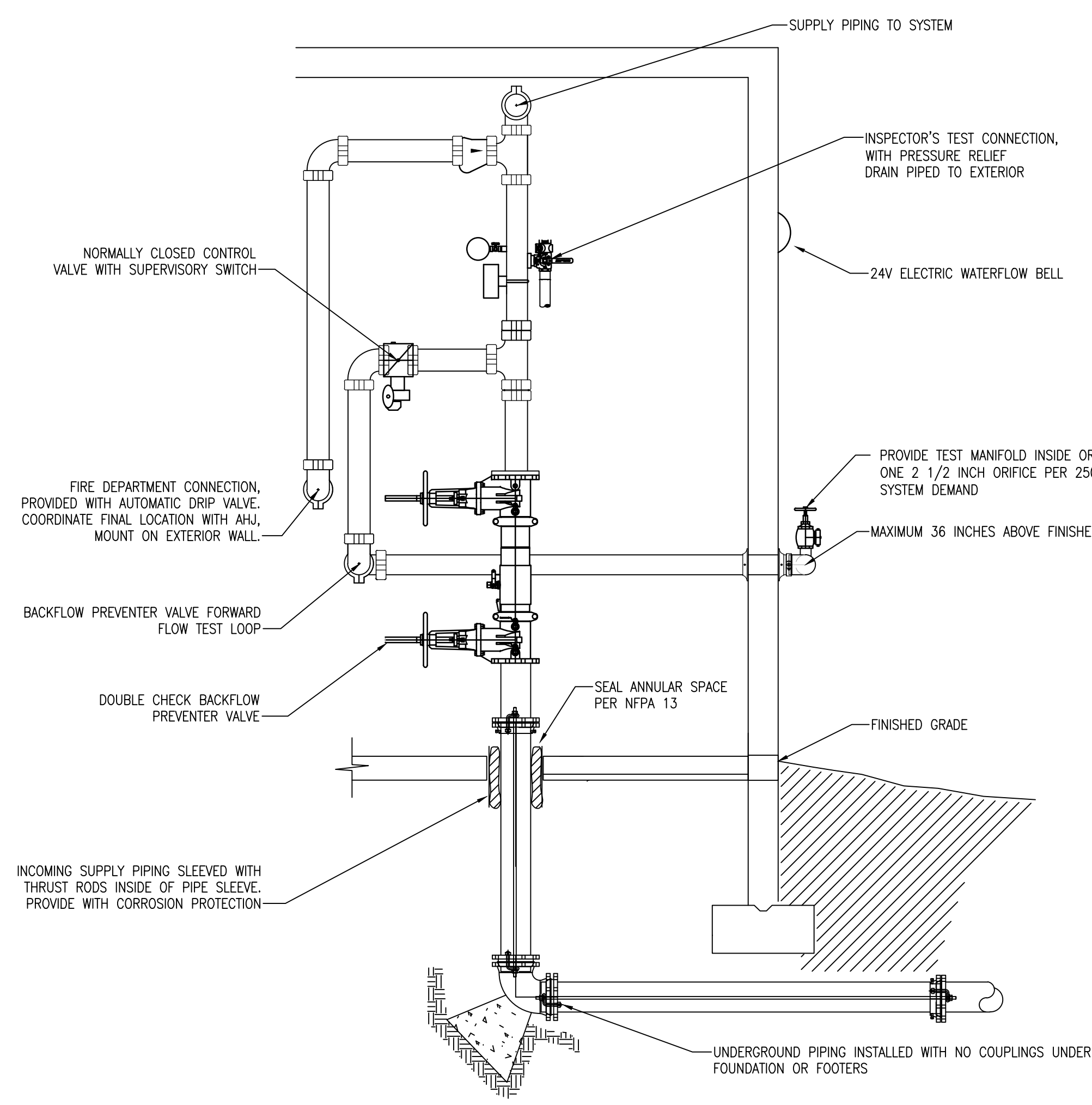


FIRE ALARM MATRIX

	DISPLAY MESSAGE ON THE MAIN CONTROL PANEL LCD AND REMOTE LCD	RECORD THE EVENT IN THE HISTORY LOG	TRANSMIT ALARM SIGNAL TO COMPLEX MAIN PANEL AND REMOTE STATION	SHUT DOWN AFFECTED HVAC UNIT	TRANSMIT SUPERVISORY SIGNAL TO COMPLEX MAIN PANEL AND REMOTE STATION	TRANSMIT TROUBLE SIGNAL TO COMPLEX MAIN PANEL AND REMOTE STATION	ACTIVATE FIRE ALARM AUDIO/INDIVIDUAL DEVICES	OPERATE SPRINKLER ALARM BELL ON BUILDING EXTERIOR	SHUT DOWN HIGH VOLUME LOW SPEED FANS	ACTIVATE SOUNDER BASE (INDIVIDUAL)	ACTIVATE STROBES THROUGHOUT -ACTIVATE CO ALARM
MANUAL PULL STATION	•	•	•	•	•	•	•	•	•	•	•
SPRINKLER WATERFLOW SWITCH	•	•	•	•	•	•	•	•	•	•	•
AREA SMOKE DETECTOR	•	•	•	•	•	•	•	•	•	•	•
FIRE ALARM CONTROL PANEL TROUBLE	•	•	•	•	•	•	•	•	•	•	•
VALVE POSITION MONITOR SWITCH	•	•	•	•	•	•	•	•	•	•	•
SMOKE DETECTOR WITH SOUNDER BASE	•	•	•	•	•	•	•	•	•	•	•
DUCT SMOKE DETECTOR	•	•	•	•	•	•	•	•	•	•	•
CO DETECTOR	•	•	•	•	•	•	•	•	•	•	•

FIRE SPRINKLER NOTES

- PROVIDE A NEW WET PIPE FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS TO INCLUDE OVERHANGS AND CANOPIES IN ACCORDANCE WITH NFPA 13 - 2016 EDITION, THE CITY OF ORANGE BEACH'S FIRE CODE, AND LOCAL ORDINANCES.
- BACKFLOW WILL BE INCURED IN THE RISER AND PROVIDED WITH BACKFLOW TEST CONNECTIONS, MINIMUM OF 1 PER 250 GPM OF SPRINKLER DEMAND OR PORTION THEREOF.
- FIRE DEPARTMENT CONNECTION LOCATION TO BE COORDINATED WITH ORANGE BEACH FIRE DEPARTMENT.
- SPRINKLER CONTRACTOR TO HAVE A SPRINKLER CONTRACTORS LICENSE ISSUED BY THE STATE OF ALABAMA FOR A MINIMUM OF 5 YEARS. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO BE DONE BY A TECHNICIAN WITH A MINIMUM OF A NICET LEVEL III IN WATER BASED SYSTEMS.
- SPRINKLER CONTRACTOR SCOPE OF WORK TO INCLUDE SYSTEM FROM THE LEAD-IN STUB UP TO THE MOST REMOTE POINTS OF THE SYSTEM.
- SYSTEM SHOWN IS FOR BIDDING PURPOSES AND TO REFLECT MINIMUM REQUIREMENTS. CONTRACTOR TO PROVIDE SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND INSTALL IN ACCORDANCE WITH NFPA 13 AND LOCAL REQUIREMENTS.
- HYDRAULIC CALCULATIONS TO BE BASED ON WATER FLOW TEST OF CITY MAIN IN STREET. FLOW TEST TO BE CONDUCTED BY CONTRACTOR WITHIN 6 MONTHS OF PROJECT START DATE. DESIGN DENSITIES TO BE AS REFLECTED ON THE DRAWINGS.
- COORDINATE AND OR OBTAIN PERMITS AND TESTING WITH THE AHJ.
- ALL ABOVE GROUND PIPING TO BE SIZED PER HYDRAULIC CALCULATIONS WITH A MAXIMUM WATER VELOCITY OF 20 FPS.
- ALL VALVES TO BE WITHIN 7 FEET AFF.
- ALL GROOVED FITTINGS AND COUPLINGS TO BE SAME MANUFACTURER.
- PROVIDE A HYDROSTATIC TEST OF THE NEW SYSTEM @ 200 PSI FOR TWO HOURS - PER NFPA 13. COORDINATE WITH AHJ FOR WITNESSING.
- ALL ABOVEGROUND PIPE 2" AND SMALLER TO BE THREADED, BLACK STEEL SCHEDULE 40.
- ALL ABOVEGROUND PIPE 2 1/2" AND LARGER TO BE ROLL GROOVE/ WELDED, BLACK STEEL MINIMUM SCHEDULE 10.
- IF FLEXIBLE PIPING IS USED, SHOP DRAWINGS SHALL CONTAIN COMPLETE INFORMATION TO INCLUDE MANUFACTURER, MODEL TYPE AND FRICTION LOSS DATA FROM MANUFACTURER CLEARLY ANNOTATED ON THE DRAWINGS. CPVC PIPING IS PERMITTED FOR LH/LIVING AREA WITHIN THE LIMITS OF ITS LISTING AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- SEAL ALL PENETRATIONS TO MATCH CONSTRUCTION AND FIRE RATING. SLEEVE ALL MASONRY PENETRATIONS AND PROVIDE 1" ANNUAL SPACE TO SLEEVE AROUND THE CIRCUMFERENCE OF THE PIPE.
- PROVIDE FREEZE PROTECTION FOR WET PIPE EXPOSED TO THE EXTERIOR.
- HANGERS SHALL BE SPACED AND PLACED IN ACCORDANCE WITH NFPA-13.
- PROVIDE INSPECTOR'S TEST CONNECTION WITH PRESSURE RELIEF AS REQUIRED BY NFPA 13. LOCATE IN ACCESSIBLE LOCATION WITHIN 7 FEET AFF.
- ROUTE ALL DRAINS AND TEST CONNECTIONS TO THE EXTERIOR, DISCHARGE WITHIN 1FOOT OF FINISHED GRADE, PROVIDE SPLASH PADS. DO NOT DISCHARGE ON WALKWAYS.
- COORDINATE WITH OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES TO OTHER EQUIPMENT.
- CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
- CONTRACTOR TO COORDINATE ALL TIE INS WITH OWNER. SHUT DOWN OF EXISTING WATER SUPPLY SYSTEM TO BE COORDINATED WITH OWNER AFTER APPROVAL OF AHJ.
- SPRINKLERS TO BE INSTALLED CENTER TILE IN TWO DIRECTIONS.
- PROVIDE CORROSION RESISTANT SEMI RECESSED QUICK RESPONSE PENDENT HEADS WITH INTERMEDIATE TEMPERATURE GLASS BULB ELEMENTS IN ENGINE BAY.
- PROVIDE CHROME SEMI RECESSED QUICK RESPONSE OR LISTED RESIDENTIAL PENDENT HEADS WITH ORDINARY TEMPERATURE GLASS BULB ELEMENTS IN FINISHED CEILINGS IN LIVING AREAS.
- SPRINKLER PROTECTION OF THE EXTERIOR PORCH IS REQUIRED. PROVIDE DRY TYPE HORIZONTAL SIDEWALL SPRINKLERS FOR ANY EXTERIOR PORCHES AND CANOPIES REQUIRED BY NFPA 13 OR AHJ, TYCO SERIES DS-3 OR EQUAL.
- PROVIDE SPARE HEADS AS REQUIRED BY NFPA 13 WITH A MINIMUM OF 2 PER EACH TYPE INSTALLED. INCLUDE MANUFACTURER'S SPRINKLER WRENCH. STORE IN SPRINKLER HEAD BOX MOUNTED ADJACENT TO THE EXTERIOR LEAD-IN RISER.
- ANTI FREEZE SYSTEMS NOT PERMITTED.
- PROVIDE A MINIMUM OF 6 INCHES CLEAR WHERE RISER ABUTS WALLS. PROVIDE A MINIMUM OF 3 FEET CLEARANCE IN FRONT OF RISER/BACKFLOW.
- WORK INCLUDES PAINTING EXPOSED PIPE IN FINISHED AREAS. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE 24V WATERFLOW BELL ON EXTERIOR, WIRING BY OTHERS.



FIRE DEPARTMENT CONNECTION DETAIL

SPRINKLER RISER DETAIL

*ALL PENETRATIONS THRU FIRE RATED WALLS NEED TO BE SEALED WITH FIRE CAULKING.

McCullough Architecture, Inc.
 P.O. BOX 6310
 GULF SHORES, ALABAMA 36547-6310
 PHONE: 251-968-7222

ALABAMA
 PROFESSIONAL ENGINEER
 11/01/21

ORANGE BEACH FIRE STATION NUMBER 5
 ORANGE BEACH ALABAMA

JOB NO.:
 DRAWN: SS
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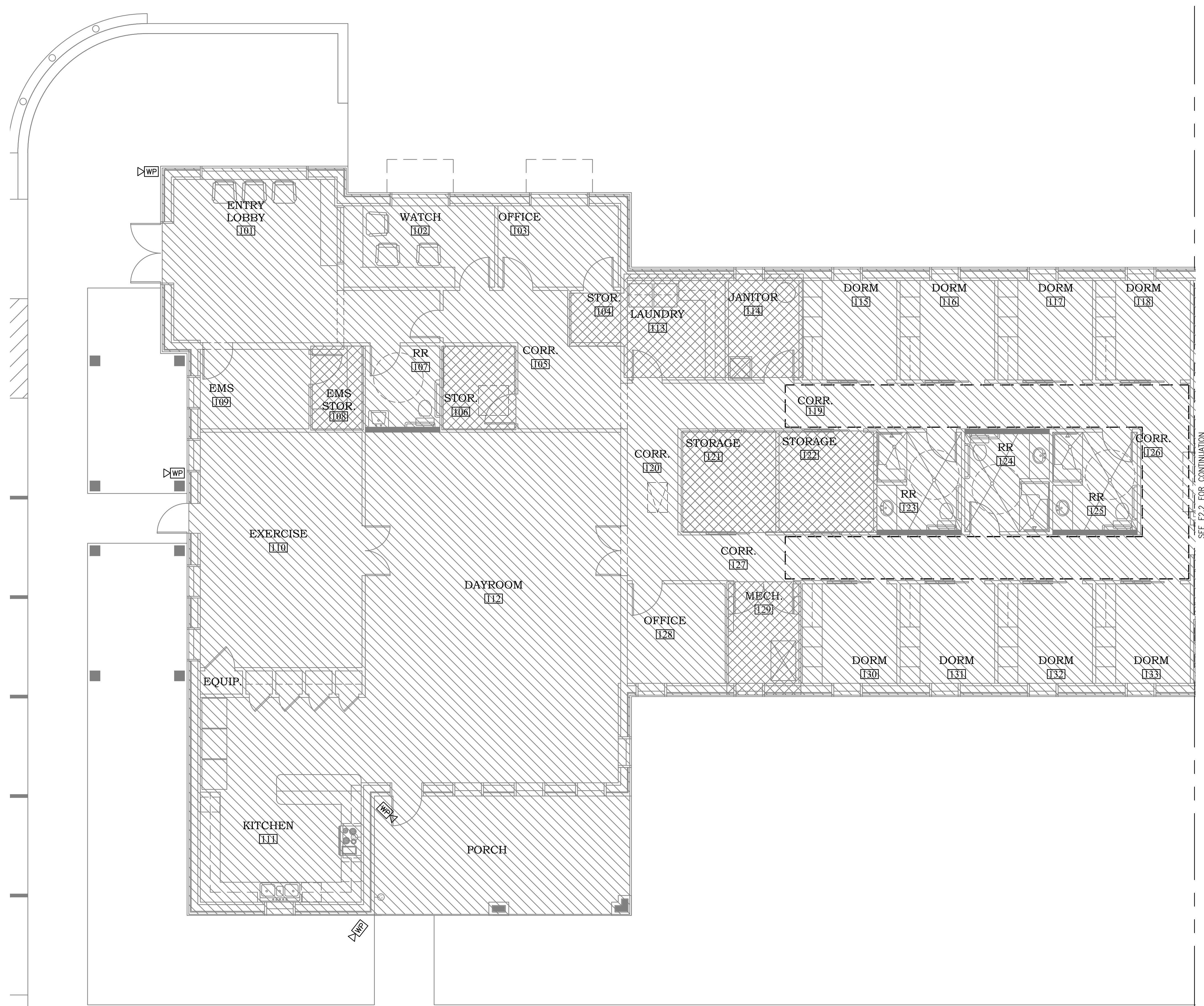
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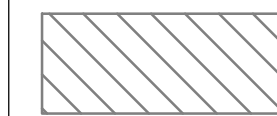
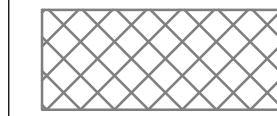
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 LEGENDS AND NOTES AND DETAILS

GSE
 Gulf States Engineering, Inc.
 800 Azalea Pk. Mobile, AL 36689 (71) 201-480-4646 (F) 251-480-4645

FIRE ALARM RISER

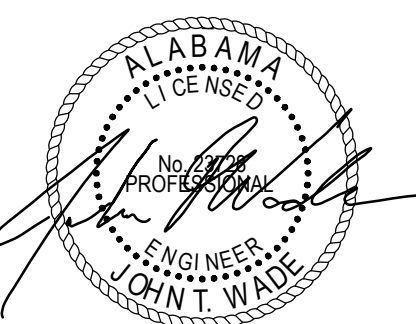


HAZARD LEGEND

-  NFPA - LIGHT HAZARD: 0.1 GPM/SF OVER 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE. BRASS UPRIGHTS IN EXPOSED CEILINGS, CHROME SEMI RECESSED PENDENTS IN FINISHED CEILINGS.
-  NFPA - ORDINARY HAZARD GROUP 2: 0.2 GPM/SF OVER 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE. BRASS UPRIGHTS IN EXPOSED CEILINGS, CHROME SEMI RECESSED PENDENTS IN FINISHED CEILINGS.

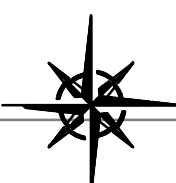


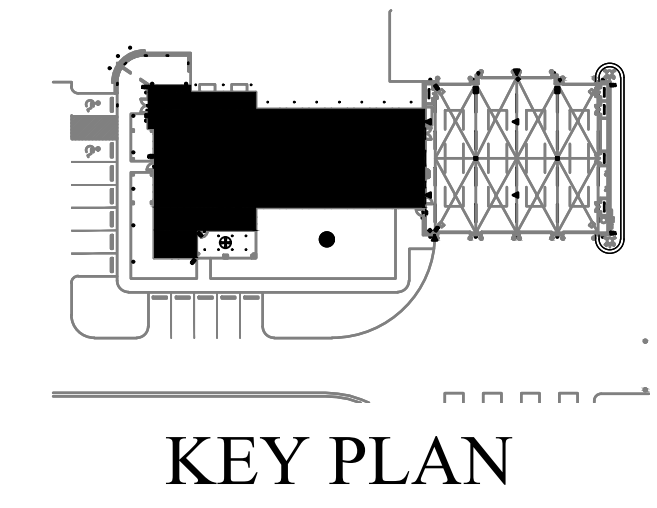
**McColough
ARCHITECTURE, INC.**
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



11/01/21

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

N

FIRE HAZARD PLAN
SCALE: 3/16"=1'-0"



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DATE:	2021.11.01
REVISION:	

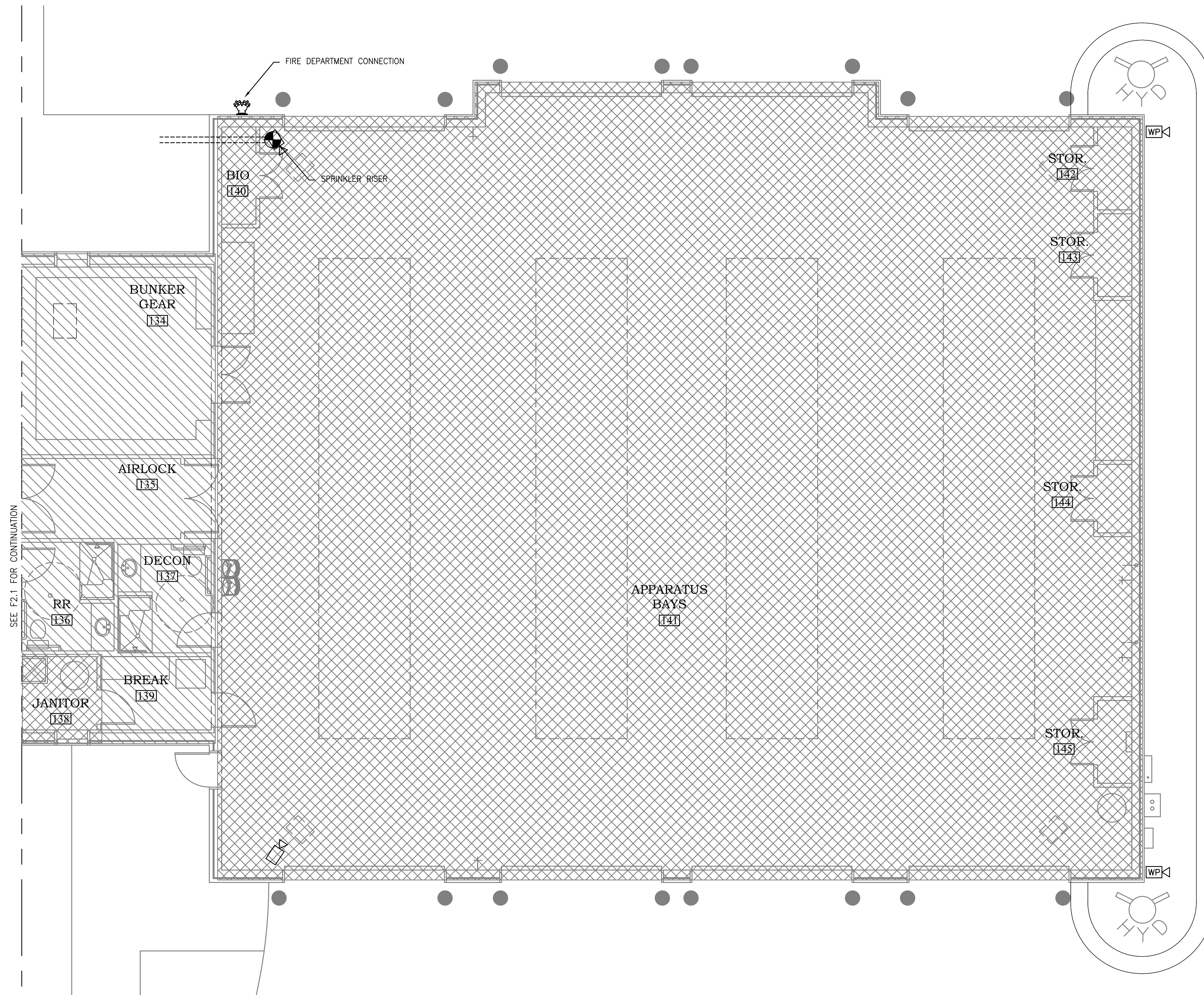
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F2.1

FIRE HAZARD PLAN
SHEET 1 OF 2



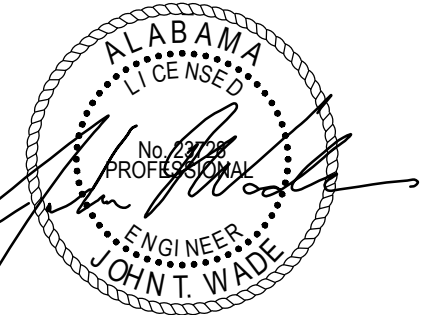


HAZARD LEGEND

- NFPA - LIGHT HAZARD: 0.1 GPM/SF OVER 1,500 SQ. FT. WITH 100 GPM HOSE ALLOWANCE. BRASS UPRIGHTS IN EXPOSED CEILINGS, CHROME SEMI RECESSED PENDENTS IN FINISHED CEILINGS.
- NFPA - ORDINARY HAZARD GROUP 2: 0.2 GPM/SF OVER 1,500 SQ. FT. WITH 250 GPM HOSE ALLOWANCE. BRASS UPRIGHTS IN EXPOSED CEILINGS, CHROME SEMI RECESSED PENDENTS IN FINISHED CEILINGS.



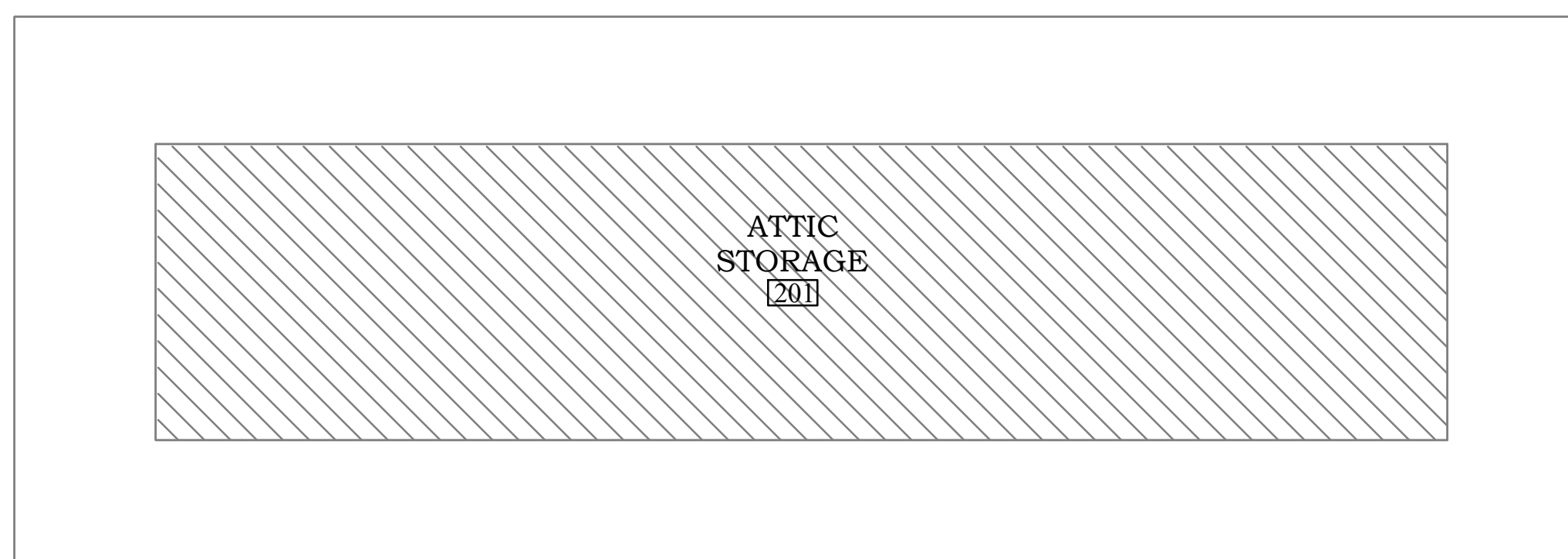
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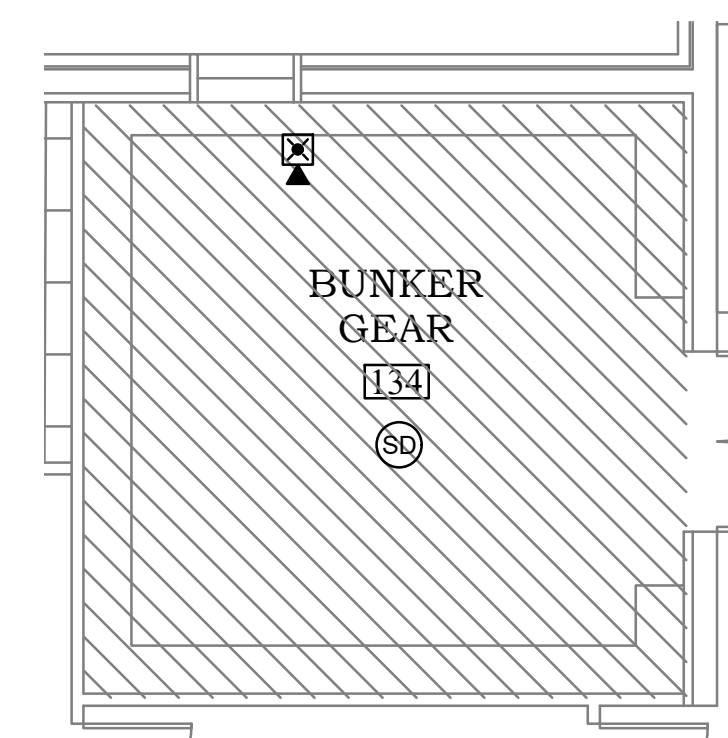
11/01/21

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

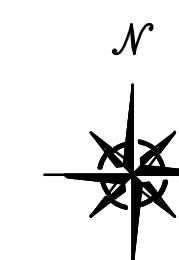
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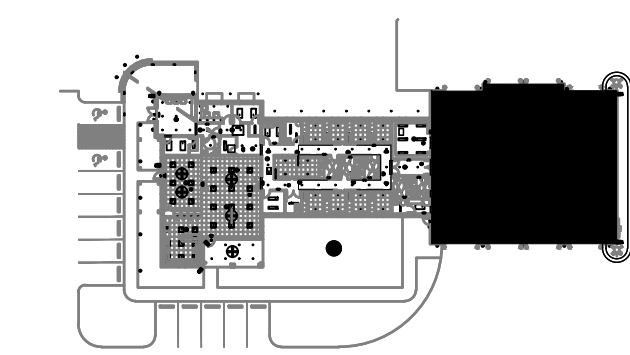
ATTIC FIRE HAZARD PLAN
SCALE: 3/16"=1'-0"



ATTIC FIRE HAZARD PLAN
SCALE: 3/16"=1'-0"



FIRE HAZARD PLAN
SCALE: 3/16"=1'-0"



KEY PLAN

JOB NO.:
DRAWN: SS
CHECKED: TE
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

F2.2

FIRE HAZARD PLAN
SHEET 2 OF 2



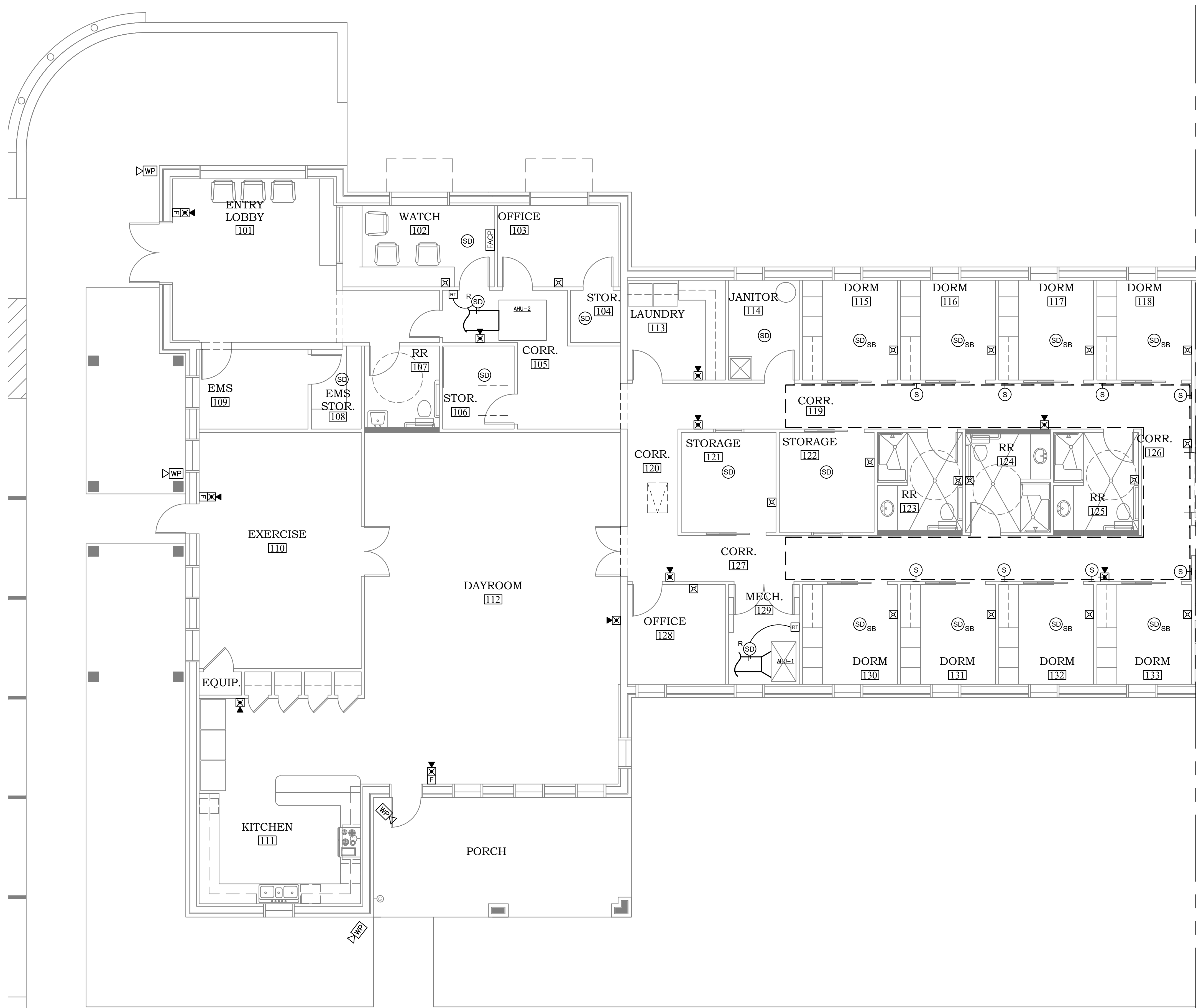


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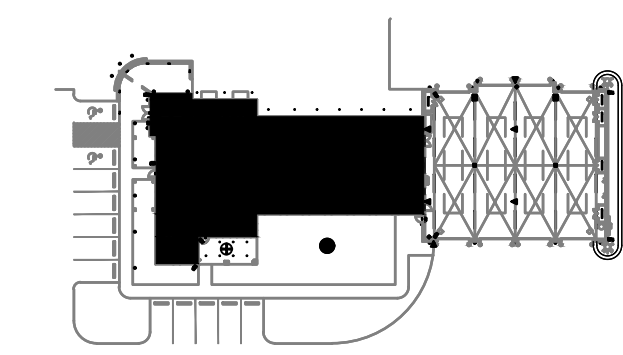
ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA



SEE F3.2 FOR CONTINUATION



FIRE ALARM PLAN
SCALE: 3/16"=1'-0"



KEY PLAN

JOB NO.:
DRAWN: SS
CHECKED: TE
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

F3.1

FIRE ALARM PLAN
SHEET 1 OF 2



Gulf States Engineering, Inc.
500 Azalea Rd. Mobile, AL 36689 (T) 251-480-4646 (F) 251-480-4645

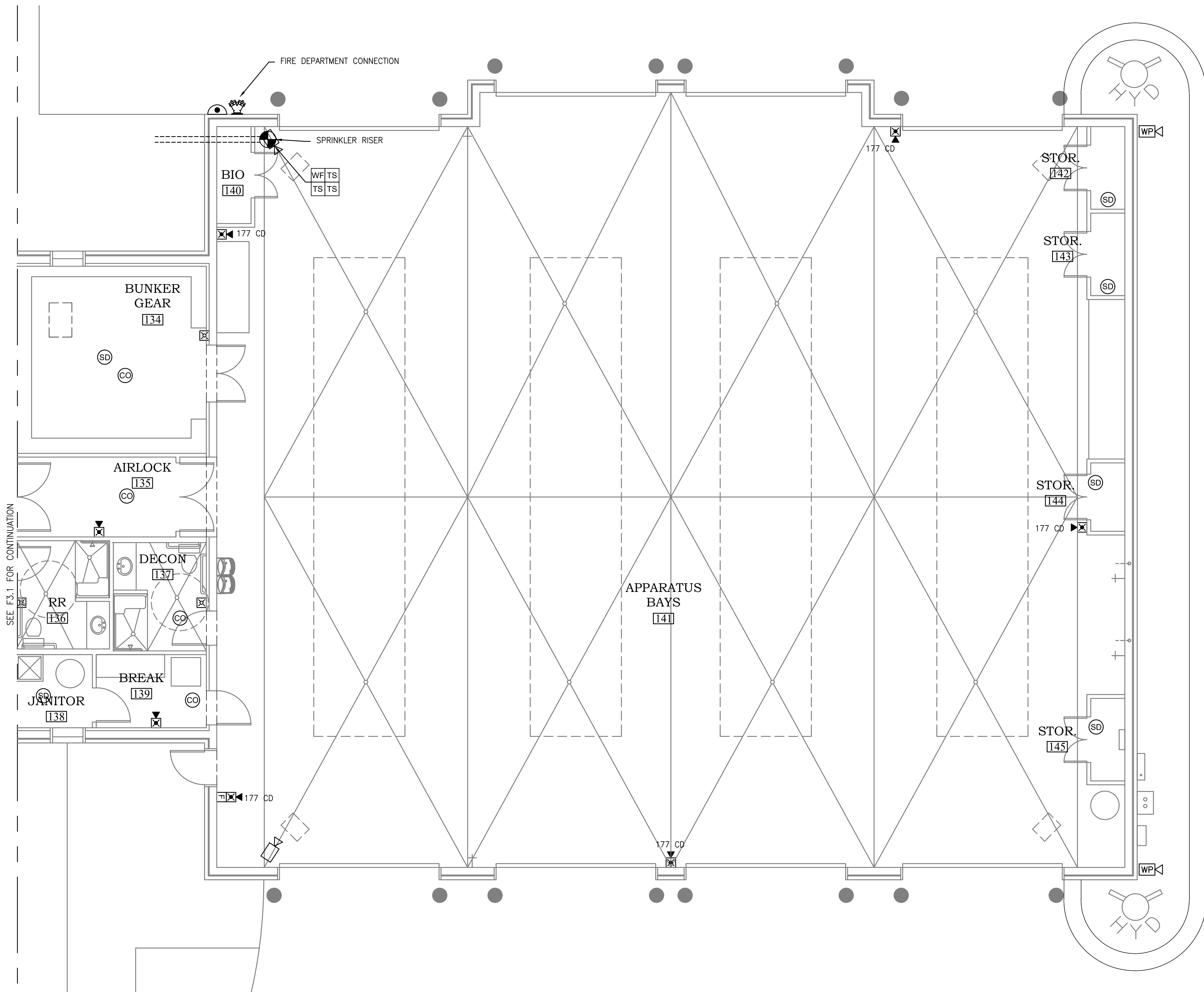


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P.O. BOX 6310
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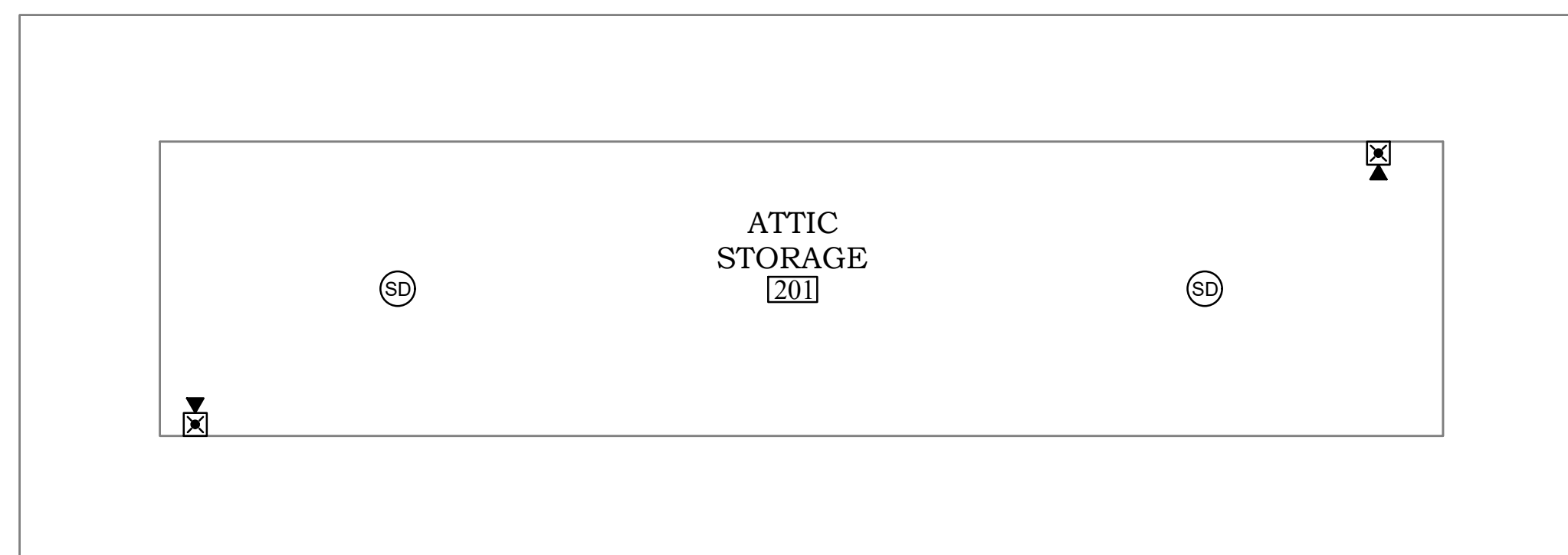


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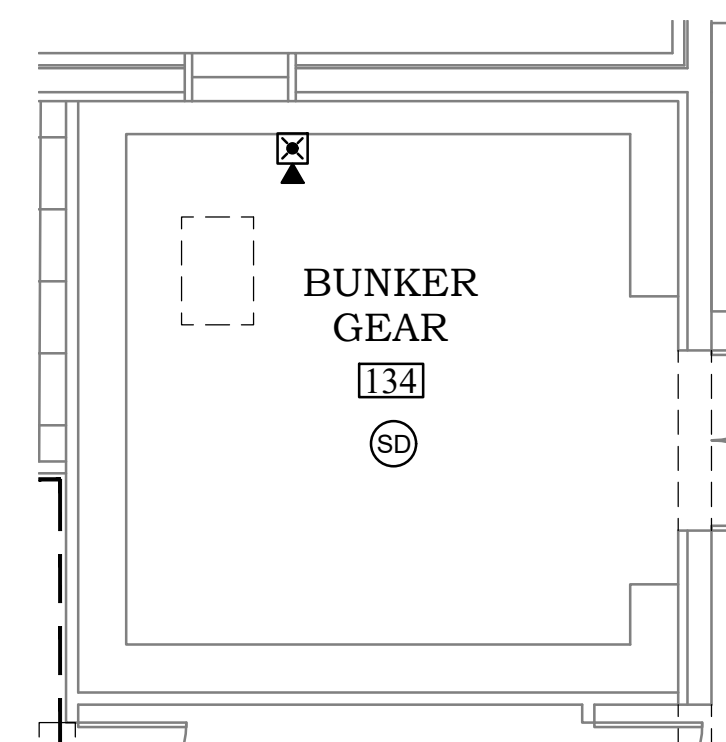
ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA



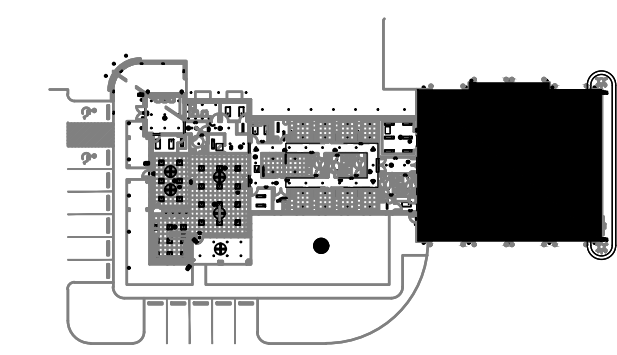
SEE F3.1 FOR CONTINUATION



ATTIC FIRE ALARM PLAN
SCALE: 3/16"=1'-0"



FIRE ALARM PLAN
SCALE: 3/16"=1'-0"



KEY PLAN

JOB NO.:
DRAWN: SS
CHECKED: TE
DATE: 2021.11.01
REVISION:

SCALE: NOTED

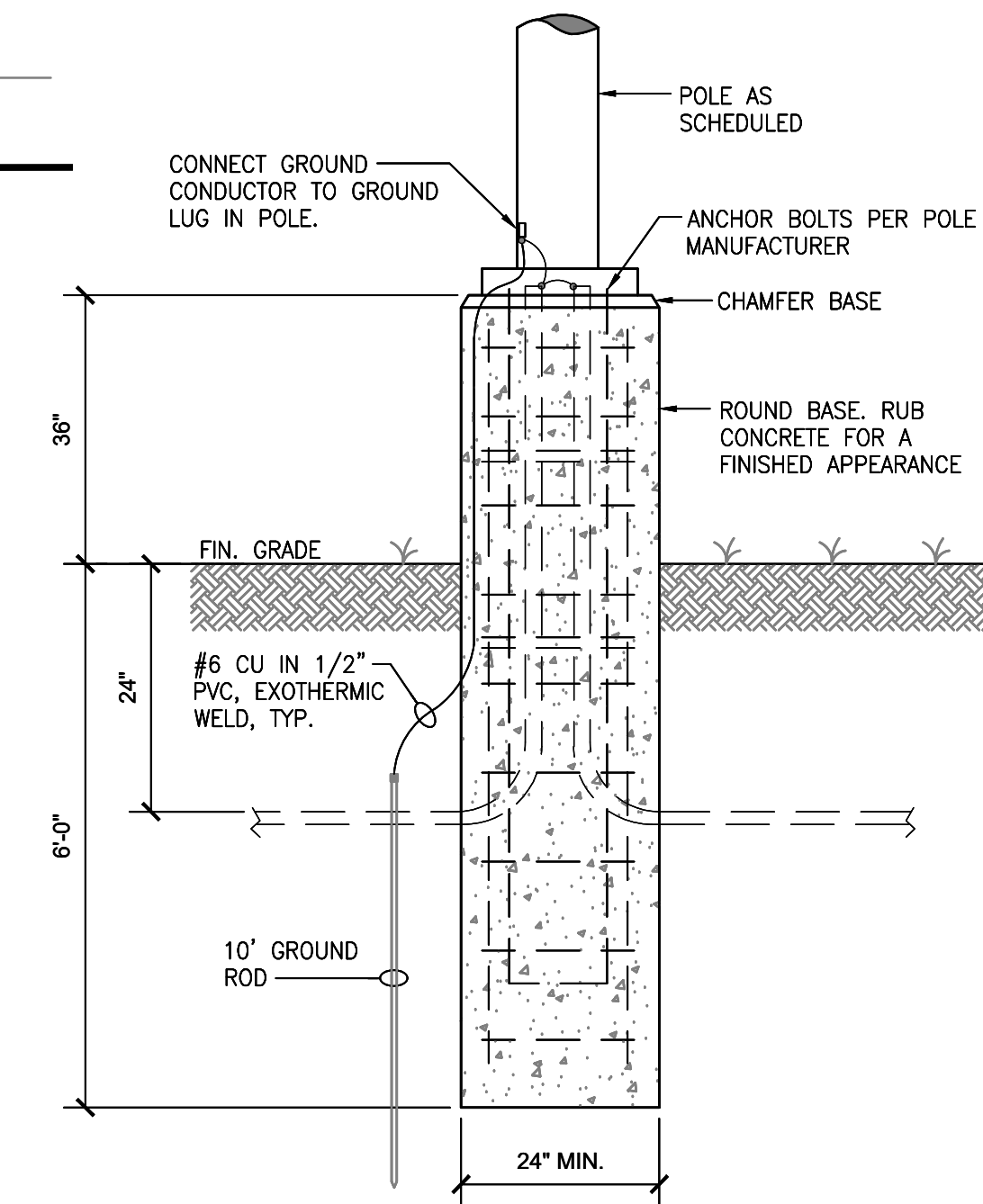
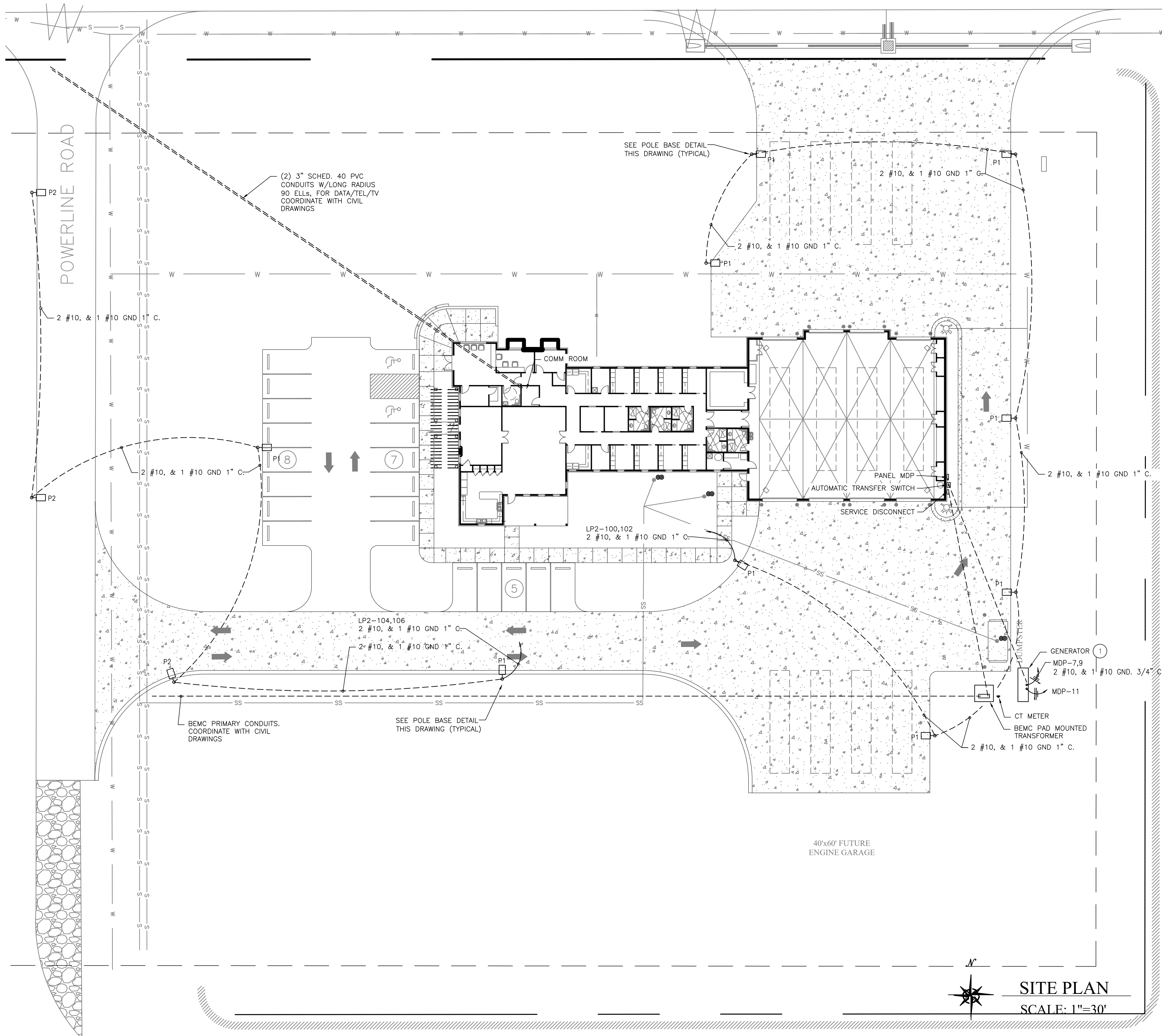
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F3.2

FIRE ALARM PLAN
SHEET 2 OF 2



Gulf States Engineering, Inc.
500 Azalea Rd. Mobile, AL 36689 (T) 251-480-4646 (F) 251-480-4645



NOTE: CONTRACTOR SHALL VERIFY DIMENSIONS OF POLE BASE AND PROVIDE CONCRETE BASE A MINIMUM OF 6" LARGER ON EACH SIDE THAN ANCHOR BOLT CIRCLE.

**SITE LIGHTING LUMINAIRE
POLE BASE DETAIL**
NO SCALE

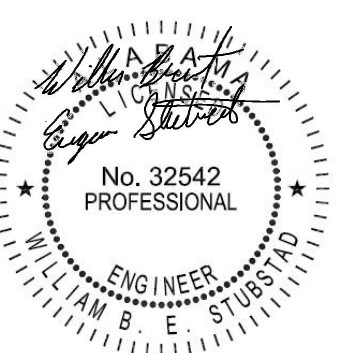
POLE BASE FOR PRICING ONLY
FINAL DESIGN BY STRUCTURAL ENGINEER

KEYED NOTES:

- 1 COORDINATE ALL CONDUIT STUB UP REQUIREMENTS IN GENERATOR SLAB PRIOR TO POURING. SEE RISER DIAGRAM.



**McCullough
ARCHITECTURE, INC.**
P.O. BOX 6310
GULF SHORES, ALABAMA
36547-6310
PHONE: 251-968-7222



11/1/2021

**ORANGE BEACH
FIRE STATION NUMBER 5
ORANGE BEACH
ALABAMA**

JOB NO.:
DRAWN:
CHECKED:
DATE: 2021.11.01
REVISION:

SCALE: NOTED

SHEET NO.:

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UTILITIES SITE
PLAN



Electrical Contractor Scope of Work:

1. Provide permit if needed
2. Provide wire
3. Provide wire runs per NFPA 70 code
4. All wire runs to be clearly tagged & labeled
5. Provide all wiring materials (hangars, conduit, surface mold,wire ties, boxes, etc)
6. Provide high voltage electrical relay connections if needed
7. Provide other high voltage connections if needed
8. Provide electrical power where needed (dedicated/undedicated)
9. Provide complete system installation (including head end equipment)
10. Provide as-built drawings after installation
11. Provide 1 year of warranty on labor and Material
12. Provide an on-site representative when final connections are made

Purvis Systems Scope of Work:

1. Provide shop drawings of field devices
2. Provide system components
3. Provide technical support to electrical contractor
4. Provide all programming and calibrations
5. Provide end user training
6. Provide 1 year of system warranty - Elect. Cont. may assist Purvis Systems for payment to make repairs/replacements as needed

Wire Specifications:

1. Controller Interconnects – Cat5/6, 18/2 Plenum Shielded
2. Remote Touch Screen (RTS) – Cat5/6
3. Remote Microphone – 24/4 Plenum Shielded Microphone cable
4. 25/70v Apparatus Bay, External and Ceiling/Wall Speakers – 18/2 Plenum Shielded
5. Self-Amplified Apparatus Bay, External and Ceiling/Wall Speakers – 18/4 Plenum Shielded
6. LED Speaker Ring wiring – 18/4 Plenum Shielded
7. Message Board – Cat5/6
8. Turn Out Timer – Cat5/6
9. Printer – Cat5/6
- 10.Pushbuttons – 18/4 Plenum Shielded (Illuminated style button)
- 11.Dorm Remotes – 18/4 Twisted Pair Plenum Shielded
- 12.Unit Presence Detector – 18/4 Plenum Shielded
- 13.WAN connection – Cat5/6
- 14.Radio Connections – 18/2 Plenum Shielded
- 15.Bay Door Controller Connection – 18/2 Plenum Shielded
- 16.Ambient Noise Sensor and Modules – 18/2 Plenum Shielded
- 17.Camera Control Unit (CCU) – 18/2 Plenum Shielded,Cat5/6,24/4 Microphone Cable
- 18.Tower Light – 18/8 Plenum
19. Rotating Light – 18/2 Plenum Shielded
20. 3.5" Disc LED Light – 18/2 Plenum Shielded
21. Strobe Light – 18/2 Plenum Shielded

Wire Length for device connections - 16"

Wire Types:

- Cat5/6 - Southwest wire (57557401) 24/4 pair
- 24/4 MIC cable - Canare wire 200M Starquad mic wire(CANL4E5CBLA200M)
- 18/2 Plenum Shielded - West Penn (WP 25293BGY1000) 18g strd shld Plenum grey(formerly 25293B)
- 18/4 Plenum Shielded - Charlotte Wire and cable (CW09423) plenum shielded
- 18/4 Plenum - WP 25244BGY1000 (formerly 25244B) Plenum Unshielded
- 18/8 - Omni Cable (G121808) 18G 8C Plen N-shd
- 18/4 – Twisted Shielded Pair

Mounting Heights:

All are Above Finished Floor (AFF) to bottom of the box
Remote Touch Screen (RTS) - 54" or Desktop
MIC XLR Plate – Behind RTS or under table top
Apparatus bay speakers to be hung 16' A.F.F.
Volume Controls – 48"
LCDs, LEDs, and power outlets - 80"
Apparatus Bay LCDs & power outlets - 95"
Turn Out timer – To the Left side of each Bay Door and 6' A.F.F
Printer stand/Shelf - 36"
Pushbuttons (Manual/Acknowledgment/Reset/Test/Doorbell) - 48"
Dorm Remotes - 48"
Unit Presence Detector – Centered over each Apparatus front/back, side to side
Camera Control Unit (CCU) – CCU Within 25' of the Camera, Speaker/MIC Box - 48", Camera – TBD
Tower Light - TBD
Single Color Trip Lights – Centered on ceiling
LED Light – Centered on ceiling
Strobe Light - TBD

Audio And Light Zones:

See Floor plan and pull schedule

Required boxes:

All Cat5/6 Locations - single gang 3" deep box
Microphone XLR Plate - Single gang 3" deep box
Volume Control - Single gang 4" deep box
Pushbuttons - Single gang 3" deep box
Dorm Remote - Single gang 3" deep box
Unit Presence Detector – Two Gang 3" deep box
Camera Control Unit (CCU) POE Injector – Single Gang Duplex
Tower Light – Double Gang Box (Gang plate provided with device (Wall or Ceiling)
Single Color Trip Light – Six Square Box
LED Light – Double Gang, Ceiling Octagon (T-Grid Box Hanger)
Strobe Light – Double Gang Box

Surface Mount Options:























Wire Mold – 700 series







AC Power: (All Outlets to be within 5' of the device)

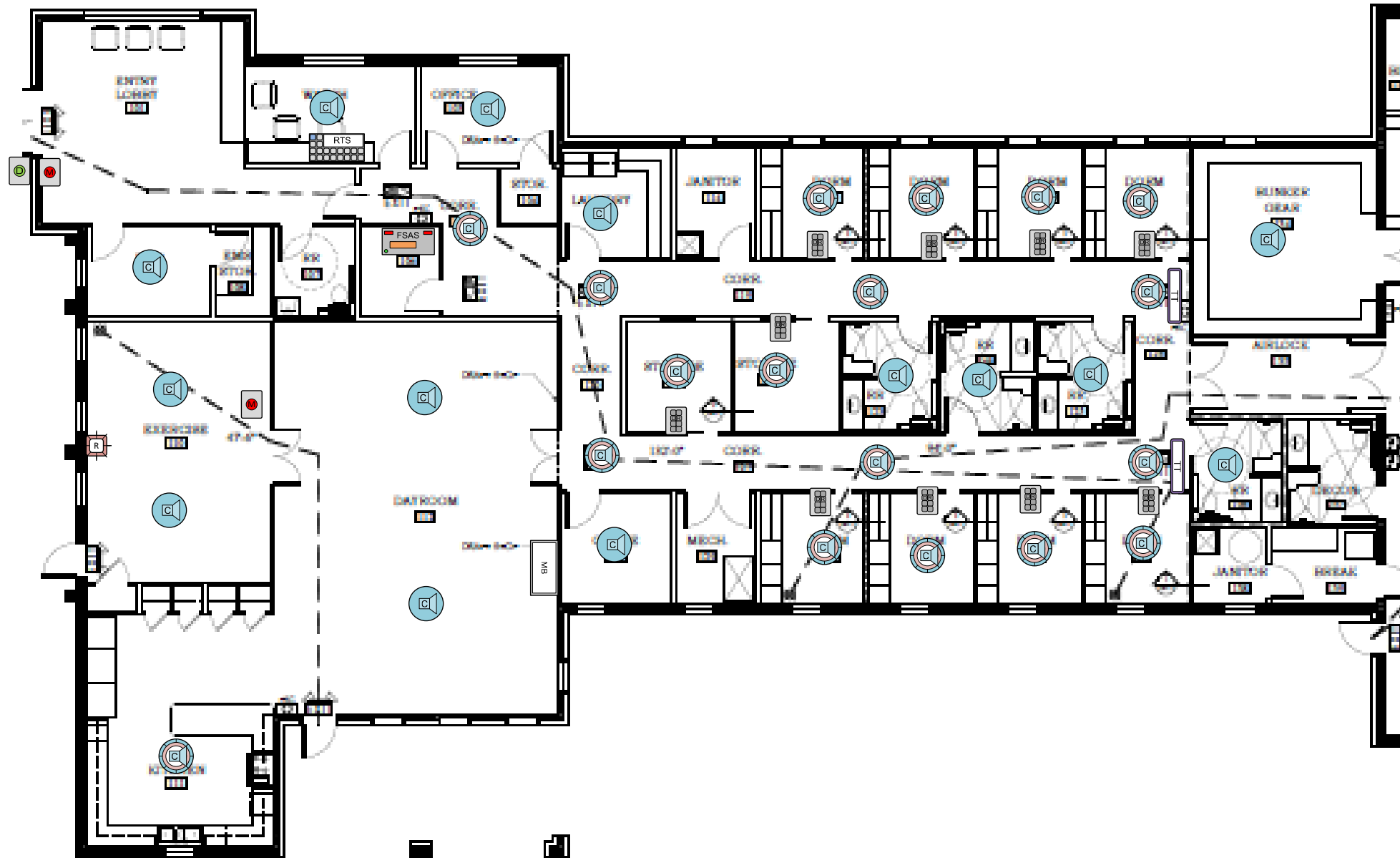
Controller Location – 20Amp Dedicated
Remote Touch Screen (RTS) – Single Gang Duplex
Message Board – Single Gang Duplex
Turn Out Timer – Single Gang Duplex
Printer – Single Gang Duplex
Camera Control Unit (CCU) – Single Gang Duplex

Controller Dimensions and Weights:

Station Control Unit (SCU) – 5.2"H x 18.0"D x 17.3"W (32lbs)
Audio Relay Expansion Module (ARXM) – 3.5"H x 18.0"D x 17.3"W (14lbs)
Network Switch 16 Port – 1.75"H x 6.7"D x 11"W (3.15lbs)
Network Switch 24/28 Port – 1.75"H x 7.99"D x 17.35"W (5.05lbs)
Dorm Remote Gateway 2/4 Port (DRG) – .92"H x 3.5"D x 3.6"W (5lbs)
Dorm Remote Gateway 8/16/32 Port (DRG) – 1.75"H x 17.1"D x 10.38"W (7lbs)
Amplifier – 3.5"H x 18.25"D x 17.0"W (41lbs)
UPS - 3.5"H x 15.75"D x 17.25"W (58lbs)
Camera Control Unit – Controller – 12"H x 6"D x 12"W (16lbs)
Camera Intercom – 6.5"L x 4.6"W x 3/1"H (.86lbs)
Camera – 6.4"W x 4.06"H (1.84lbs)

DEVICE	MOUNT
 SCU/ARXM/DRG/AMP/SWT/UPS location	Rackmount
 Remote Touch Screen	Wall 54" AFF or Desktop
 Microphone (Desktop or Wall Mount)	Wall 48" AFF or Desktop
 Interior Ceiling Speaker (Self Amplified/70v/25v)	Ceiling
 Interior Ceiling Speaker w/ RED & WHT LED (Self Amplified/70v/25v)	Ceiling
 Interior Wall Speaker (Self Amplified/70v/25v)	Wall 78" AFF
 High Power Speaker (Exterior / App Bay) (Self Amplified/70v/25v)	Wall ≥78" AFF or Ceiling
 Volume Control	Wall 48" AFF
 Ambient Noise Sensor	Wall ≥78" AFF or Ceiling
 Ambient Noise Module	Wall ≥78" AFF or Ceiling
 Flat Panel Message Board	Wall ≥ 60" AFF
 Turnout Timer	Wall >54" AFF
 Thermal Printer	Shelf 36" AFF or Desktop
 Button – (M)an, (A)ck, (R)eset, (T)est, (D)oorbell	Wall 48" AFF
 Dorm Remote	Wall 48" AFF
 Unit Presence Detector	Ceiling
 Bay Door Controller	Controller Location
 Camera / Doorbell (DB)	DB Wall 48" AFF
 Tower Light	Wall ≥78" AFF or Ceiling
 LED Light - (R)ed, (W)White	Wall ≥78" AFF or Ceiling
 Strobe Light - (R)ed , (A)mber, Green (G), Blue (B), (C)lear	Wall ≥78" AFF or Ceiling
 Stove / Grill Shutoff	Wall ≥78" AFF or Ceiling
 General Device Relay Control	Controller Location
	Controller Location

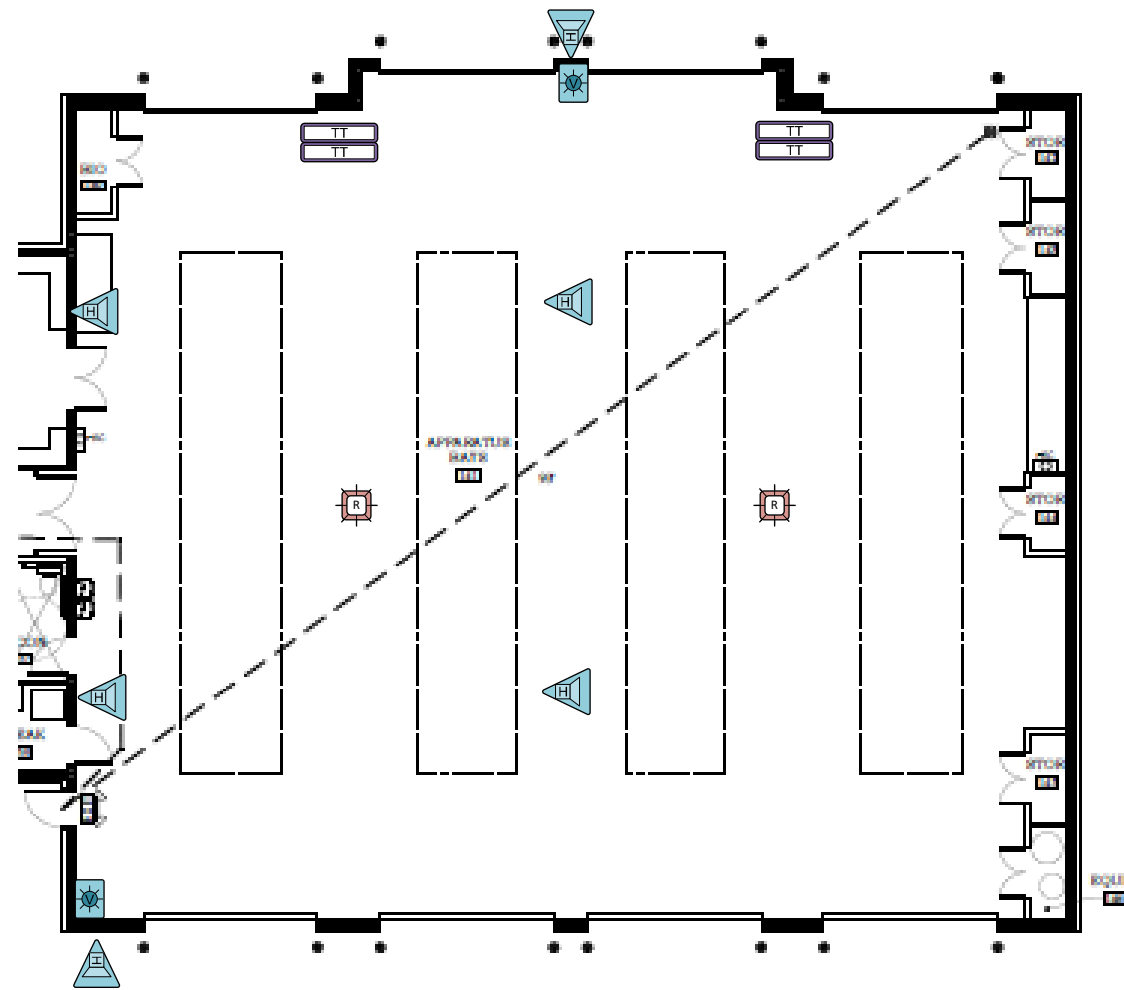
WIRE LEGEND	
CAT5/6 – 586B	
24/4 Microphone Cable (Special)	
18/2 Twisted Shielded (Plenum as required)	
18/4 Shielded (Plenum as required)	
18/8 (Plenum as required by code)	
18/4 Two Pair Twisted Shielded (Plen. as required)	



DEVICE	MOUNT
FSAS SCU/ARXM/DRG/AMP/SWT/UPS location	Rackmount
Remote Touch Screen	Wall 54" AFF or Desktop
Microphone (Desktop or Wall Mount)	Wall 48" AFF or Desktop
Interior Ceiling Speaker (70v)- 14	Ceiling
Interior Ceiling Speaker w/ RED & WHT LED (70v) - 18	Ceiling
Interior Wall Speaker (Self Amplified/70v/25v)	Wall 78" AFF
High Power Speaker (Exterior / App Bay) (Self Amplified/70v/25v)	Wall ≥78" AFF or Ceiling
Volume Control	Wall 48" AFF
Ambient Noise Sensor	Wall ≥78" AFF or Ceiling
Ambient Noise Module	Wall ≥78" AFF or Ceiling
42" Flat Panel Message Board - 1	Wall ≥ 60" AFF
Turnout Timer/Reader Board - 2	Wall >54" AFF
Thermal Printer	Shelf 36" AFF or Desktop
Button – (M)an- 2, (A)ck, (R)eset, (T)est, (D)oorbell -1	Wall 48" AFF
Dorm Remote - 10	Wall 48" AFF
Unit Presence Detector	Ceiling
Bay Door Controller	Controller Location
Camera / Doorbell (DB)	DB Wall 48" AFF
Tower Light	Wall ≥78" AFF or Ceiling
LED Light - (R)ed, (W)White	Wall ≥78" AFF or Ceiling
Strobe Light - (R)ed -1, (A)mber, Green (G), Blue (B), (C)lear	Wall ≥78" AFF or Ceiling
Stove / Grill Shutoff	Wall ≥78" AFF or Ceiling
General Device Relay Control	Controller Location
	Controller Location

WIRE LEGEND

CATS/6 – 586B	
24/4 Microphone Cable (Special)	
18/2 Twisted Shielded (Plenum as required)	
18/4 Shielded (Plenum as required)	
18/8 (Plenum as required by code)	
18/4 Two Pair Twisted Shielded (Plen. as required)	



DEVICE	MOUNT
SCU/ARXM/DRG/AMP/SWT/UPS location	Rackmount
Remote Touch Screen	Wall 54" AFF or Desktop
Microphone (Desktop or Wall Mount)	Wall 48" AFF or Desktop
Interior Ceiling Speaker (Self Amplified/70v/25v)	Ceiling
Interior Ceiling Speaker w/ RED & WHT LED (Self Amplified/70v/25v)	Ceiling
Interior Wall Speaker (Self Amplified/70v/25v)	Wall 78" AFF
High Power Speaker (Exterior / App Bay) (70v) - 6	Wall ≥78" AFF or Ceiling
Volume Control - 2	Wall 48" AFF
Ambient Noise Sensor	Wall ≥78" AFF or Ceiling
Ambient Noise Module	Wall ≥78" AFF or Ceiling
Flat Panel Message Board	Wall ≥ 60" AFF
Turnout Timer - 4	Wall >54" AFF
Thermal Printer	Shelf 36" AFF or Desktop
Button – (M)an, (A)ck, (R)eset, (T)est, (D)oorbell	Wall 48" AFF
Dorm Remote	Wall 48" AFF
Unit Presence Detector	Ceiling
Bay Door Controller	Controller Location
Camera / Doorbell (DB)	DB Wall 48" AFF
Tower Light	Wall ≥78" AFF or Ceiling
LED Light - (R)ed, (W)White	Wall ≥78" AFF or Ceiling
Strobe Light - (R)ed - 2, (A)mber, Green (G), Blue (B), (C)lear	Wall ≥78" AFF or Ceiling
Stove / Grill Shutoff	Wall ≥78" AFF or Ceiling
General Device Relay Control	Controller Location
	Controller Location

WIRE LEGEND

- CAT5/6 – 586B
- 24/4 Microphone Cable (Special)
- 18/2 Twisted Shielded (Plenum as required)
- 18/4 Shielded (Plenum as required)
- 18/8 (Plenum as required by code)
- 18/4 Two Pair Twisted Shielded (Plen. as required)

