

# CONSTRUCTION DOCUMENTS FOR THE Forest Park Gillem Public Safety Building

2090 Anvil Block Road  
Forest Park, Georgia  
30294



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PRECISION  
Planning Inc.  
planners • engineers • architects • surveyors  
400 Pike Boulevard, Lawrenceville, GA 30046  
770.338.8000 • www.ppl.us

GILLEM PUBLIC  
SAFETY BUILDING  
2090 ANVIL BLOCK ROAD  
FOREST PARK, GA 30294

COVER SHEET

DESIGN  
BKS  
DRAWN  
PPI  
CHECKED  
LGD

PROJECT  
SHEET TITLE  
RELEASE

Project Directory	
<b>OWNER:</b>	CITY OF FOREST PARK 745 FOREST PARKWAY 30297 CONTACT: JAMES SHELBY PHONE: 404-201-1099
<b>ARCHITECT:</b>	PRECISION PLANNING INC. 400 PIKE BOULEVARD LAWRENCEVILLE, GEORGIA 30046-2210 PHONE NUMBER: 770-338-8142 CONTACT: KENT SNYDER, NCARB
<b>STRUCTURAL ENGINEER:</b>	WILLIAM J. PELTIER & ASSOCIATES INC. 270 LANGLEY DRIVE LAWRENCEVILLE, GA 30046
<b>MECHANICAL/PLUMBING ENGINEER:</b>	JOHNSON SPELLMAN & ASSOCIATES INC. 350 RESEARCH COURT PEACHTREE CORNERS, GA 30092
<b>ELECTRICAL ENGINEER:</b>	PHILLIPS CONSULTING ENGINEERS INC. 1911 GRAYSON HIGHWAY SUITE 8-136 GRAYSON, GA 30017
<b>CIVIL ENGINEER:</b>	PRECISION PLANNING INC. 400 PIKE BOULEVARD LAWRENCEVILLE, GA 30046 CONTACT: TODD PARKER, P.E.

Project Information	
<b>PROJECT NAME:</b>	FOREST PARK GILLEM PUBLIC SAFETY BUILDING
<b>PROJECT ADDRESS:</b>	2090 ANVIL BLOCK ROAD LAND LOTS 211 AND 212, DISTRICT 12 FOREST PARK, GEORGIA 30294
<b>ZONING DISTRICT:</b>	GZ
<b>OCCUPANCY GROUP:</b>	IBC GROUP R-2
<b>CALCULATED OCCUPANCY LOAD:</b>	86
<b>TYPE OF CONSTRUCTION:</b>	IIB
<b>SPRINKLERED OR UNSPRINKLERED:</b>	SPRINKLERED
<b>BUILDING CODE AREA LIMIT:</b>	16,000 SQ. FT.
<b>NEW BUILDING AREA:</b>	12,648 SQ. FT.
<b>NEW BUILDING HEIGHT:</b>	30'-0"
<b>CODE HEIGHT LIMIT:</b>	75'-0"
<b>FIRE ALARM:</b>	YES

### General Notes

- CONTRACTOR SHALL VERIFY THAT THESE DRAWINGS CORRESPOND TO EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY INCONSISTENCIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY THE ARCHITECT IMMEDIATELY OF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS THAT CANNOT BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS DUE TO EXISTING FIELD CONDITIONS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL CLEARANCES, DIMENSIONS AND SIZES PRIOR TO ORDERING OR PURCHASING ASSEMBLIES OR FIXTURES FOR CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION AND ALL STAGING, SCHEDULING, MATERIAL DELIVERIES AND OTHER ITEMS THAT AFFECT THE SEQUENCE OF CONSTRUCTION OR SCHEDULING THE CONSTRUCTION PROJECT.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WRITTEN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- THE BUILDING AND SITE SHALL BE KEPT IN A CLEAN AND ORDERLY MANNER AT ALL TIMES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF DEBRIS IN A CONSISTENT AND LEGAL MANNER. REFER TO SPECIFICATIONS FOR WASTE MANAGEMENT PLAN REQUIREMENTS.
- CONTRACTORS ARE REQUIRED TO HAVE A VALID GEORGIA STATE GENERAL CONTRACTING LICENSE FOR COMMERCIAL PROJECTS. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO PROVIDE THE GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT AND THE RESIDENCY STATUS AFFIDAVIT.
- THE ARCHITECT DOES NOT GUARANTEE THE PERFORMANCE OF THE PROJECT IN ANY RESPECT OTHER THAN THE ARCHITECTURAL WORK PERFORMED WHICH MEETS THE STANDARDS OF PROFESSIONAL CARE.
- THE GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.
- PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
- ALL CONSTRUCTION OFFICES SHALL BE PERMITTED SEPARATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION WASTE AND DEBRIS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING NECESSARY FENCING AND ALL SAFETY MEASURES REQUIRED TO PROTECT THE GENERAL PUBLIC FROM DEMOLITION AND CONSTRUCTION WORK FOR THE DURATION OF THE PROJECT.
- IN THE EVENT THE OWNER, THE OWNER'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE OWNER IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO THE CONSTRUCTION DOCUMENTS PREPARED BY PRECISION PLANNING, INC. RELATING TO THIS PROJECT WITHOUT OBTAINING PRECISION PLANNING, INC.'S PRIOR WRITTEN CONSENT, THE OWNER SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE OWNER AGREES TO WAIVE ANY CLAIM AGAINST PRECISION PLANNING, INC. AND TO RELEASE PRECISION PLANNING, INC. FROM ANY LIABILITY ARISING DIRECTLY OR INDIRECTLY FROM SUCH CHANGES.

### Sheet Index

GENERAL	
CS COVER SHEET	
CIVIL	
C0.0 COVER SHEET	
C0.1 GENERAL NOTES	
C1.0 BOUNDARY & TOPOGRAPHIC SURVEY	
C1.1 DEMO PLAN	
C2.1 SITE PLAN	
C3.1 GRADING AND DRAINAGE PLAN	
C3.2 STORMWATER MANAGEMENT FACILITY DETAILS	
C4.1 UTILITY PLAN (1)	
C4.2 UTILITY PLAN (2)	
C5.1 INITIAL EROSION CONTROL PLAN	
C5.2 INTERMEDIATE EROSION CONTROL PLAN	
C5.3 FINAL EROSION CONTROL PLAN	
C5.4 EROSION CONTROL NOTES (1)	
C5.5 EROSION CONTROL NOTES (2)	
C5.6 EROSION CONTROL DETAILS (1)	
C5.7 EROSION CONTROL DETAILS (2)	
C6.1 STORM SEWER PROFILES	
C6.2 SANITARY SEWER PROFILE	
C7.1 CONSTRUCTION DETAILS (1)	
C7.2 CONSTRUCTION DETAILS (2)	
C7.3 CONSTRUCTION DETAILS (3)	
C7.4 CONSTRUCTION DETAILS (4)	
C7.5 CONSTRUCTION DETAILS (5)	
L1.1 LANDSCAPE PLAN	
L1.2 LANDSCAPE NOTES & DETAILS	
LIFE SAFETY	
LS1.1 LIFE SAFETY AND CODE NOTES	
LS1.2 LIFE SAFETY AND CODE NOTES	
LS1.3 LIFE SAFETY AND CODE NOTES	
LS2.1 LIFE SAFETY PLAN, NOTES AND DETAILS	
ARCHITECTURAL	
A1.1 PLAZA PLAN, NOTES AND DETAILS	
A1.2 ENLARGED PLAZA PLAN, NOTES AND DETAILS	
A1.3 SITE DETAILS	
A2.1 DIMENSION PLAN	
A2.2 REFERENCE PLAN, NOTES AND DETAILS	
A2.3 ENLARGED DIMENSION PLANS	
A2.4 ENLARGED RESTROOM PLANS AND DETAILS	
A2.5 TRENCH DRAIN DETAILS	
A3.1 ROOF PLAN, NOTES AND DETAILS	
A3.2 ROOF DETAILS	
A3.3 ROOF DETAILS	
A4.1 REFLECTED CEILING PLAN, NOTES AND DETAILS	
A4.2 REFLECTED CEILING PLAN DETAILS	
A5.1 EXTERIOR ELEVATIONS	
A6.1 BUILDING SECTIONS	
A6.2 WALL SECTIONS	
A6.3 WALL SECTIONS	
A6.4 WALL SECTIONS	
A9.1 DOOR & WINDOW SCHEDULE, NOTES & DETAILS	
A9.2 DOOR & WINDOW SCHEDULE, NOTES & DETAILS	
A10.1 EXTERIOR SIGNAGE NOTES & DETAILS	
INTERIOR DESIGN	
ID1.0 INTERIOR FINISH TRANSITION DETAILS	
ID2.1 INTERIOR FINISH PLAN, NOTES + DETAILS	
ID3.1 INTERIOR FINISH ELEVATIONS	
ID3.2 INTERIOR FINISH ELEVATIONS	
ID4.1 INTERIOR FINISH MILLWORK	
ID4.2 INTERIOR FINISH MILLWORK DETAILS	
ID5.1 INTERIOR SIGNAGE NOTES & DETAILS	
ID6.1 FF&E PLAN, NOTES + DETAILS	

### Sheet Index

STRUCTURAL	
S1.0 GENERAL NOTES	
S2.1 FOUNDATION PLAN	
S2.2 ROOF PLAN	
S3.1 SECTIONS AND DETAILS	
S3.2 SECTIONS AND DETAILS	
S3.3 SECTIONS AND DETAILS	
S3.4 SECTIONS AND DETAILS	
S3.5 SECTIONS AND DETAILS	
S3.6 SECTIONS AND DETAILS	
S4.1 TYPICAL FOUNDATION DETAILS	
MECHANICAL	
M0.1 HVAC GENERAL NOTES AND LEGEND	
M1.1 HVAC SCHEDULES	
M1.2 HVAC DETAILS	
M1.3 HVAC DETAILS	
M2.0 APPARATUS BAY DIESEL EXHAUST SYSTEM	
M2.1 HVAC FLOOR PLAN	
M2.2 HVAC ROOF PLAN	
M3.1 HVAC SECTIONS	
M4.1 HVAC CONTROLS	
M4.2 HVAC CONTROLS	
PLUMBING	
P1.1 PLUMBING GENERAL NOTES AND SCHEDULES	
P1.2 PLUMBING DETAILS	
P1.3 PLUMBING DETAILS	
P2.1 PLUMBING FLOOR PLAN - DRAINAGE	
P2.2 PLUMBING FLOOR PLAN - WATER	
P2.3 PLUMBING FLOOR PLAN - COMPRESSED AIR AND GAS	
P3.1 PLUMBING ROOF	
P4.1 PLUMBING PART PLANS	
P4.2 PLUMBING RISERS	
P4.3 PLUMBING GAS RISER	
FIRE PROTECTION	
FP1.1 FIRE PROTECTIONS NOTES, DETAILS & SCHEDULES	
FP2.1 MAIN LEVEL FIRE PROTECTION PLAN	
ELECTRICAL	
E1.0 SYMBOLS LEGEND & NOTES	
E1.1 FIXTURE SCHEDULE	
E1.2 ELECTRICAL SITE PLAN	
E2.1 LIGHTING PLAN	
E3.1 POWER & COMMUNICATION PLAN	
E4.1 MECHANICAL POWER PLAN	
E4.2 MECHANICAL POWER ROOF PLAN	
E5.1 SPECIAL SYSTEMS PLAN	
E6.1 ONE-LINE DIAGRAM	
E6.2 PANEL SCHEDULES	
E6.3 PANEL SCHEDULES	
E7.1 DETAILS	
TECHNOLOGY	
T1.0 SYMBOLS LEGENDS & NOTES (TSYS)	
T1.1 PLAZA PLAN (TSYS)	
T2.1 OVERALL CABLING & REFERENCE PLAN (TSYS)	
T2.2 OVERALL SECURITY PLAN (TSYS)	
T2.3 OVERALL ROOF PLAN (TSYS)	
T3.1 ENLARGED ROOM PLANS (TSYS)	
T3.5 ENLARGED IT SPACES (TSYS)	
T4.1 REFLECTED CEILING PLAN (TSYS)	
T4.2 PAGING SPEAKER PLAN (TSYS)	
T5.0 GENERAL INSTALLATION DETAILS (TSYS)	
T5.1 TYPICAL DEVICE CABLING & RACEWAY DETAILS (TSYS)	
T5.2 TYPICAL PLATE AND CONSTRUCTION DETAILS (TSYS)	
T5.3 TYPICAL PLATE AND CONSTRUCTION DETAILS (TSYS)	
T5.4 TYPICAL PLATE AND CONSTRUCTION DETAILS (TSYS)	
T5.5 ONE-LINE DIAGRAM (TSYS)	
T6.1 SECURITY SCHEDULES AND ELEVATIONS (TSYS)	

### Symbol Legend

View Name	Symbol	Description
Room name 101		1/8" = 1'-0"
ROOM NAME & NUMBER		
ENLARGED DETAIL REFERENCE		
SECTION REFERENCE		
INTERIOR ELEVATION MARK		
EXTERIOR ELEVATION MARK		
COLUMN REFERENCE		
INTERIOR FINISH TAG		
BREAK LINE		
DIMENSION LINE TO FACE OF STUD, MASONRY OR CONCRETE		
DIMENSION LINE TO COLUMN CENTERLINE		
DIMENSION LINE TO FINISH ASSEMBLIES		
PLAN NORTH		
NORTH ARROW		
TRUE NORTH		
ELEVATION MARKER		A.F.F.
WINDOW REFERENCE MARK		
DOOR REFERENCE NUMBER		
PARTITION TYPE		
PLAN KEYNOTE		
CEILING TYPE TAG		1' 1'-0"
EXTERIOR FINISH TYPE		
REVISION NUMBER		

### Applicable Codes

THE FOLLOWING CODES SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT:

- INTERNATIONAL BUILDING CODE (IBC):** 2018 EDITION WITH GEORGIA AMENDMENTS
- INTERNATIONAL FIRE CODE (IFC):** 2018 EDITION WITH GEORGIA AMENDMENTS
- INTERNATIONAL PLUMBING CODE (IPC):** 2018 EDITION WITH GEORGIA AMENDMENTS
- INTERNATIONAL MECHANICAL CODE (IMC):** 2018 EDITION WITH GEORGIA AMENDMENTS
- INTERNATIONAL FUEL AND GAS CODE:** 2018 EDITION WITH GEORGIA AMENDMENTS
- NATIONAL ELECTRIC CODE (NEC):** 2020 EDITION WITH GEORGIA AMENDMENTS
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC):** 2015 EDITION WITH GEORGIA AMENDMENTS
- DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN:** 2010 EDITION WITH NO GEORGIA AMENDMENTS
- NFPA 101 LIFE SAFETY CODE:** 2018 EDITION WITH GEORGIA AMENDMENTS

CS





**GENERAL NOTES**

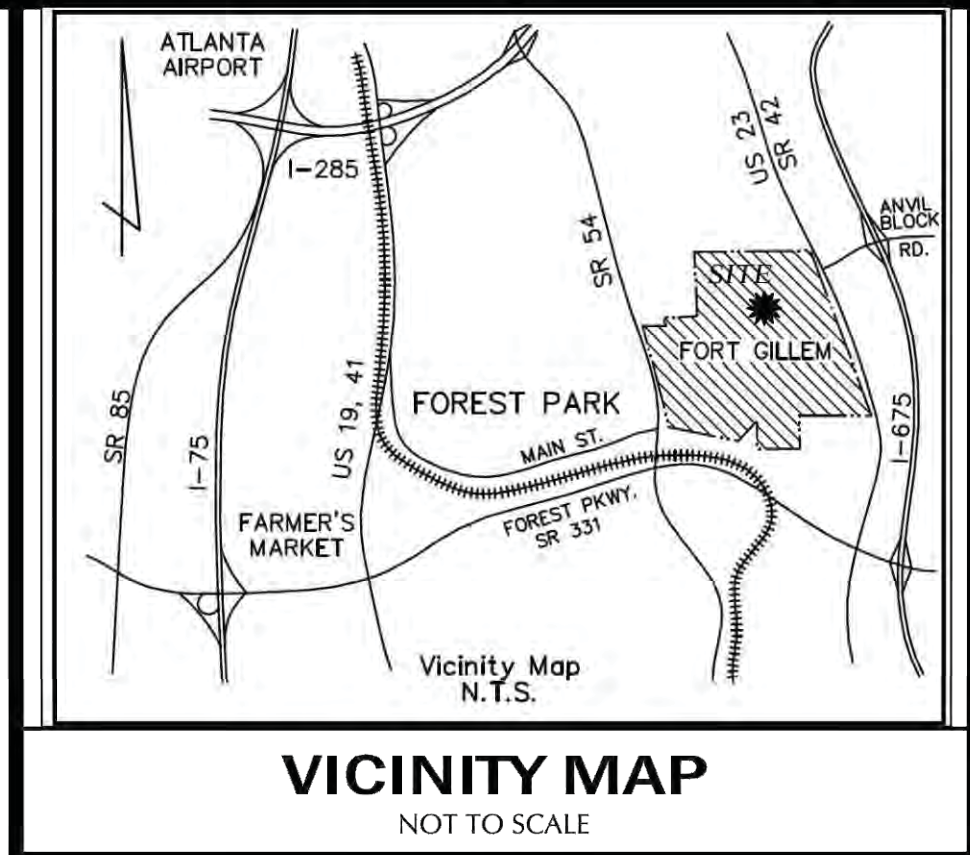
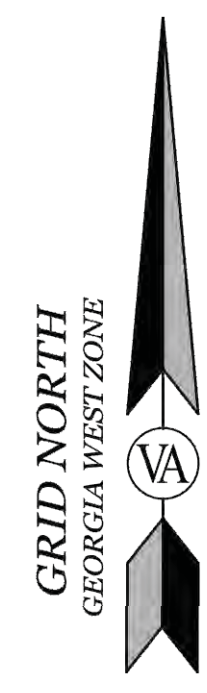
- 1) ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBERS 130630039F AND 130630077F, DATED 6/7/2017 FOR CLAYTON COUNTY, GEORGIA, THIS PROPERTY DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE (THE SITE IS LOCATED IN ZONE "X") AS DEFINED BY F.E.M.A.
- 2) CURRENT ZONING ACCORDING TO THE CITY OF FOREST PARK IS LISTED AS GZ, GILLEM ZONING DISTRICT. THE CITY OF FOREST PARK ZONING DEPARTMENT MUST BE REFERENCED FOR ALL REQUIREMENTS UNDER THIS ZONING.  
BUILDING SETBACKS:  
MINIMUM FRONT SETBACK = 55 FEET FROM CENTERLINE OF ROAD.  
MINIMUM SIDE SETBACK = NOT SPECIFIED.  
MINIMUM REAR SETBACK = NOT SPECIFIED.  
MAXIMUM BUILDING HEIGHT IS LIMITED ONLY BY FIRE MARSHALL'S APPROVAL.
- 3) HORIZONTAL AND VERTICAL REFERENCE SHOWN HEREON WAS TAKEN FROM REAL-TIME CORRECTED GPS OBSERVATIONS. (NAD 83 / NAVD 88)
- 4) ALL DISTANCES SHOWN HEREON ARE HORIZONTAL (GROUND) DISTANCES UNLESS OTHERWISE SPECIFIED.
- 5) THIS SURVEY WAS DONE UNDER MY SUPERVISION USING A TOPCON GTS 233W TOTAL STATION WITH AN ANGULAR ERROR OF 2 SECONDS PER STATION. THE TRAVERSE UPON WHICH THIS PLAT IS BASED, HAS BEEN CALCULATED FOR CLOSURE BY THE COMPASS RULE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 59,152 FEET. THE ADJUSTED ACCURACY OF THIS PLAT IS ONE FOOT IN 467,536 FEET.
- 6) CONTOUR INTERVALS IF SHOWN ARE ONE FOOT FOR CONVENIENCE. (CERTIFIED TO TWO FEET.)

**SPECIAL NOTES**

- 1) CERTIFICATION AND DECLARATION IS MADE TO THE ENTITIES AS LISTED IN THE TITLE BLOCK AND/OR CERTIFICATIONS. THE CERTIFICATIONS AND DECLARATIONS ON THIS PLAT ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
- 2) SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
- 3) THE UNDERSIGNED SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- 4) PURSUANT TO RULE 180-6-09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFICATION" RELATING TO PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

**PLAT REFERENCES**

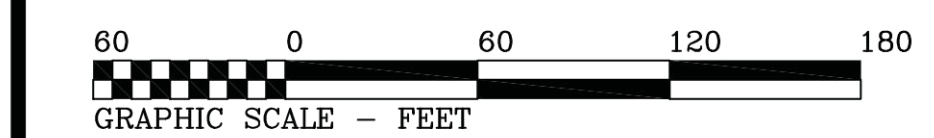
- 1) "A PLAT OF FORT GILLEM (ATLANTA ARMY DEPT)" PREPARED BY LOWE ENGINEERS, DATED 7/31/2012, LAST REVISED 7/31/2014.
- 2) "ALTANSPS LAND TITLE SURVEY OF GILLEM LOGISTICS CENTER BUILDING SITE 200 FOR CPF GILLEM LOGISTICS CENTER 200, LLC, A DELAWARE LIMITED LIABILITY COMPANY, CHICAGO TITLE INSURANCE COMPANY AND FIRST AMERICAN TITLE INSURANCE COMPANY", PREPARED BY VALENTINO & ASSOCIATES, INC., DATED JULY 13, 2017, LAST REVISED OCTOBER 30, 2019.



RESERVED FOR CLERK OF COURT

**LEGEND**

- BROKEN LINE NOT TO SCALE
- FENCE LINE
- GUARDRAIL
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC LINE
- OVERHEAD TELEPHONE LINE
- SANITARY SEWER LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- UNKNOWN UNDERGROUND UTILITY LINE
- WATER LINE
- WETLANDS AREA
- CATCH BASIN SINGLE WING
- CATCH BASIN DOUBLE WING
- COMPLETED POINT
- BORING HOLE
- CLEANOUT
- COMMUNICATION BOX
- ELECTRIC BOX
- ELECTRIC PANEL OR LINE MARKER
- ELEVATION MANHOLE
- ELECTRIC METER
- ELECTRIC SWITCH
- ELECTRIC OUTLET
- FIBER OPTIC BOX
- FIBER OPTIC LINE MARKER
- FIRE DEPT. CONNECTION
- FIRE HYDRANT
- FLARED END SECTION
- GAS LINE MARKER
- GAS METER
- GAS VALVE
- GROUND LIGHT
- GUY WIRE
- HEADWALL
- HEATING/AIR CONDITIONING UNIT
- IRRIGATION CONTROL VALVE
- LIGHT POLE
- POST INDICATOR VALVE
- POWER POLE
- SANITARY SEWER MANHOLE
- SIGN POST
- STORM WATER DROP INLET
- STORM WATER JUNCTION BOX
- STORM WATER YARD INLET
- TELEPHONE MANHOLE
- TELEPHONE POLE
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL POLE
- WATER MANHOLE
- WATER METER
- WATER VALVE
- WATER VALVE/LINE MARKER
- BOLLARD
- CONCRETE MONUMENT FOUND
- CRIMPED TOP PIPE FOUND
- FINISHED FLOOR ELEVATION
- IRRIGATION BOX
- IRON PIN FOUND
- 1/2" IRON PIN SET
- NAIL BOX
- OPEN TOP PIPE FOUND
- PK NAIL FOUND
- PK NAIL SET
- REBAR FOUND
- RIGHT-OF-WAY MONUMENT FOUND
- RAILROAD SIGNAL BOX
- STUB OUT
- BUILDING SETBACK LINE
- CURB & GUTTER
- CONCRETE PAD
- CHAIN LINK FENCE
- CORRUGATED METAL PIPE
- DEED BOOK & PAGE
- DUCTILE IRON PIPE
- HEADER CURB
- HIGH DENSITY POLYETHYLENE PIPE
- INVERT ELEVATION
- OUTLET CONTROL STRUCTURE
- PLAT BOOK & PAGE
- PLASTIC PIPE
- REINFORCED CONCRETE PIPE
- TEMPORARY BENCHMARK
- SPOT ELEVATION

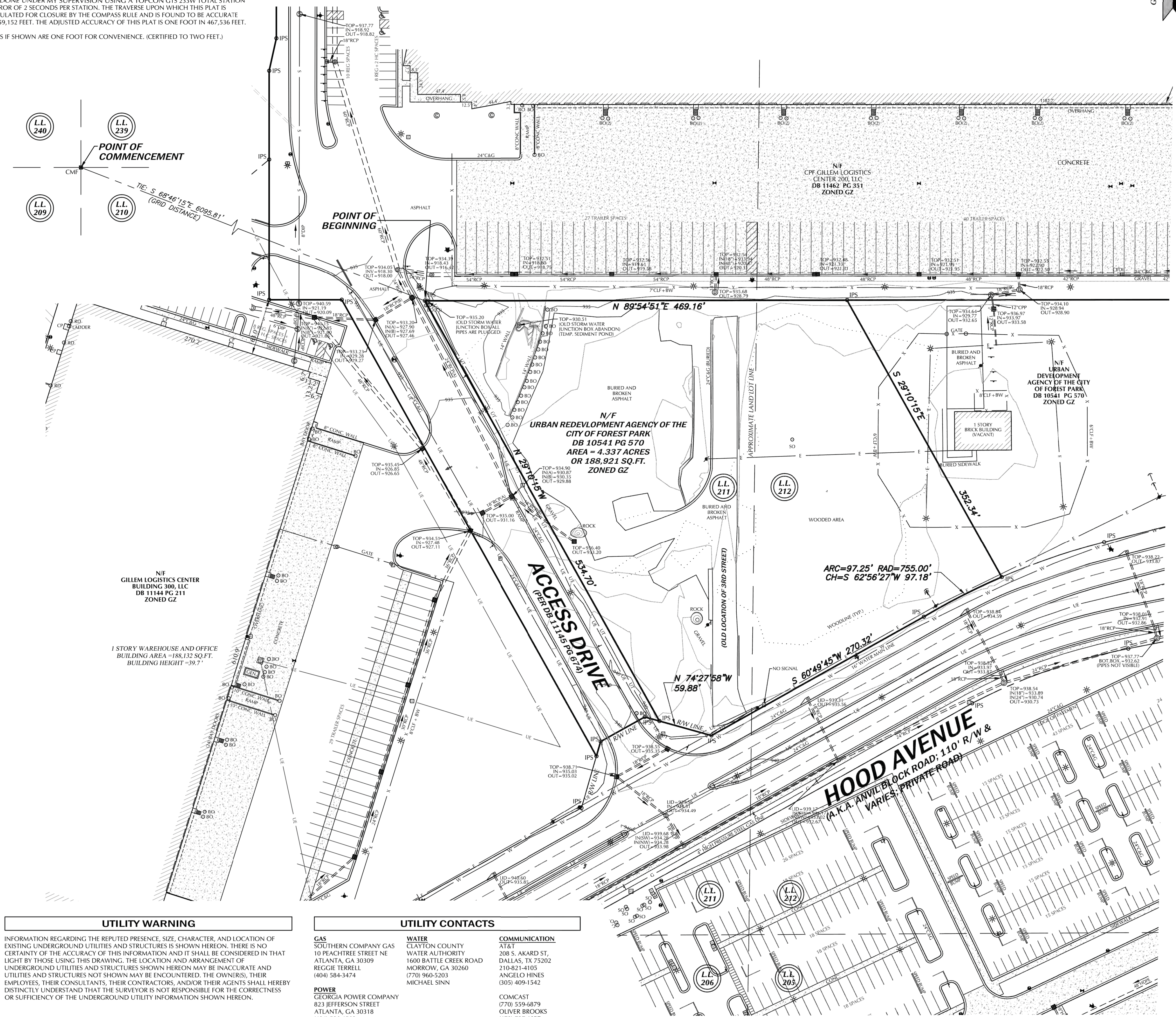


**UTILITY WARNING**

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNERS, THEIR EMPLOYEES, THEIR CONSULTANTS, THEIR CONTRACTORS, AND/OR THEIR AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON.

**UTILITY CONTACTS**

- |   |   |  |
|---|---|--|
| <b>GAS</b><br>SOUTHERN COMPANY GAS<br>10 PEACHTREE STREET NE<br>ATLANTA, GA 30309<br>REGGIE TERRELL<br>(404) 584-3474 | <b>WATER</b><br>CLAYTON COUNTY<br>WATER AUTHORITY<br>1600 BATTLE CREEK ROAD<br>MORROW, GA 30260<br>(770) 960-5203<br>MICHAEL SINN | <b>COMMUNICATION</b><br>AT&T<br>208 S. AKARD ST.<br>DALLAS, TX 75202<br>210-821-4105<br>ANGELO HINES<br>(305) 409-1542 |
| <b>POWER</b><br>GEORGIA POWER COMPANY<br>823 JEFFERSON STREET<br>ATLANTA, GA 30318<br>(404) 506-4569<br>IKE COLLINS   | <b>COMCAST</b><br>(770) 559-6879<br>OLIVER BROOKS<br>(470) 787-4657   |  |



**LEGAL DESCRIPTION, FIRE STATION SITE**

All that tract or parcel of land lying and being in Land Lots 211 and 212 of the 12th Land District, City of Forest Park, Clayton County, Georgia, said tract or parcel of land being more fully shown and designated on a plat of survey prepared by Valentino & Associates, Inc. (Job #15-074; Drawing/File #15-074), bearing the seal of Glenn A. Valentino, Ga. Registered Land Surveyor #2528, and being more particularly described, with bearings relative to Grid North, Georgia West Zone, as follows:

TO FIND THE POINT OF BEGINNING, COMMENCE AT a concrete monument found at the common corner of Land Lots 209, 210, 239 and 240;

THENCE South 68 degrees 46 minutes 15 seconds East for a grid distance of 6095.81 feet to a 1/2" iron pin set, said 1/2" iron pin set being the POINT OF BEGINNING.

THENCE North 89 degrees 54 minutes 51 seconds East for a distance of 469.16 feet to a 1/2" iron pin set;

THENCE South 29 degrees 10 minutes 15 seconds East for a distance of 352.34 feet to a 1/2" iron pin set on the northwesterly right-of-way line of Hood Avenue (a/k/a Anvil Block Road, 110' Private R/W and varies);

THENCE proceeding along said northwesterly right-of-way line of Hood Avenue the following courses and distances: along a curve to the left having a radius of 755.00 feet for an arc distance of 97.25 feet (said arc being subtended by a chord of South 62 degrees 56 minutes 27 seconds West for a distance of 97.18 feet) to a 1/2" iron pin set;

THENCE South 60 degrees 49 minutes 45 seconds West for a distance of 270.32 feet to a 1/2" iron pin set;

THENCE North 74 degrees 27 minutes 58 seconds East for a distance of 59.88 feet to a 1/2" iron pin set;

THENCE departing said northwesterly right-of-way line of Hood Avenue North 29 degrees 10 minutes 15 seconds West for a distance of 534.70 feet to a 1/2" iron pin set, said 1/2" iron pin set being the POINT OF BEGINNING.

Said tract or parcel of land contains 4.337 acres or 188,921 square feet.

FIELD DATES: 6/18/21 & 6/24/21 & 7/7/21

**STATE OF GEORGIA PLAT ACT CERTIFICATION**

AS REQUIRED BY SUBSECTION (d) OF O.C.G.A. SECTION 15-6-67, THIS PLAT HAS BEEN PREPARED BY A LAND SURVEYOR AND APPROVED BY ALL APPLICABLE LOCAL JURISDICTIONS FOR RECORDING AS EVIDENCED BY APPROVAL CERTIFICATES, SIGNATURES, STAMPS, OR STATEMENTS HEREON. SUCH APPROVALS OR AFFIRMATIONS SHOULD BE CONFIRMED WITH THE APPROPRIATE GOVERNMENTAL BODIES BY ANY PURCHASER OR USER OF THIS PLAT AS TO INTENDED USE OF ANY PARCEL. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.

*Glenn A. Valentino*  
GLENN A. VALENTINO GA. R.L.S. #2528  
DATE OF EXPIRATION: 12/31/2022

BOUNDARY / TOPOGRAPHIC SURVEY OF  
**FIRE STATION PARCEL**  
FOR:  
**THE CITY OF FOREST PARK**  
LAND LOTS 211 & 212, 12TH DISTRICT, CITY OF FOREST PARK, CLAYTON COUNTY, GEORGIA

**VA**  
VALENTINO & ASSOCIATES, INC.  
LAND SURVEYORS  
4045 ORCHARD ROAD  
BUILDING 200  
SMYRNA, GEORGIA 30080  
PHONE: (770) 438-0015  
FAX: (770) 435-6050  
WEB: VALENTINOSURVEY.COM  
STATE OF GEORGIA LAND SURVEYING FIRM LICENSE NO. LSF000794

**REVISIONS**  
ADDED TOPOGRAPHY & INVERTS (8/10/21)

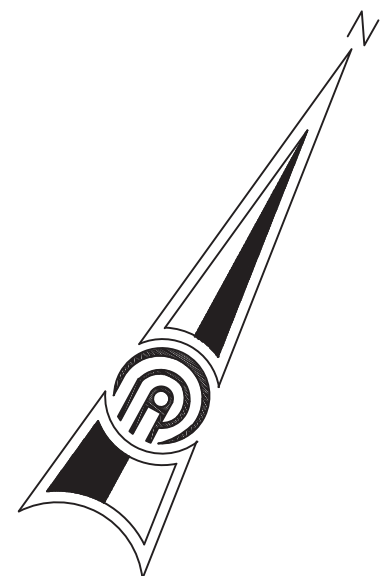
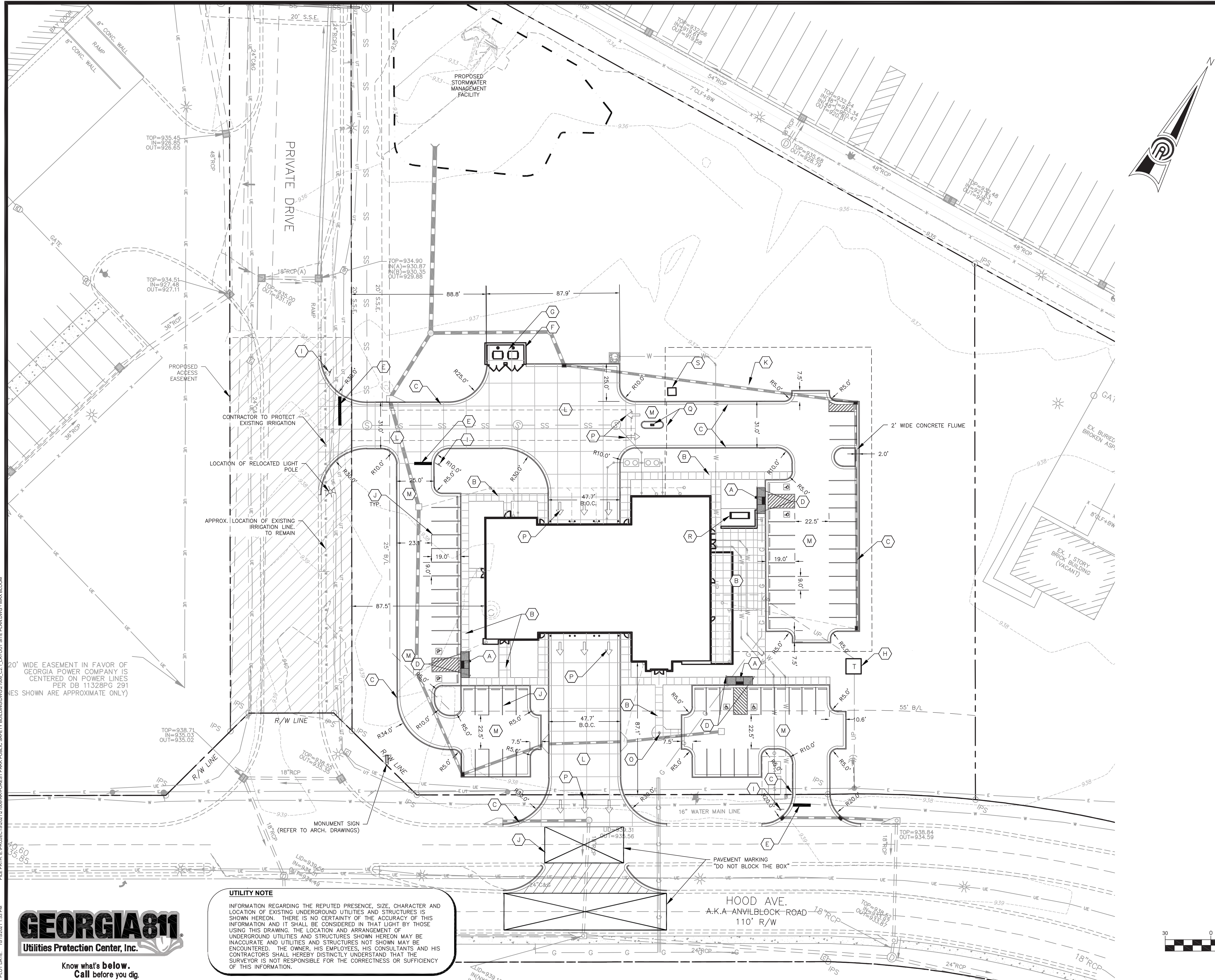


SCALE: 1" = 60'  
DATE: 4/02/2021  
JOB NUMBER: 15-074  
FILE NUMBER: 15-074  
PLOTTED: 8/10/2021

BOUNDARY & TOPOGRAPHIC SURVEY

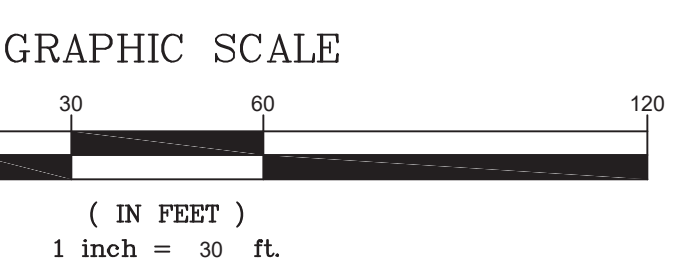
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**SITE LEGEND**

- (A) ACCESSIBLE HIC RAMP, GDOT STD TYPE 'B'
- (B) 4 INCH THICK CONCRETE SIDEWALK, WIDTH VARIES (REFER TO ARCH. DRAWINGS)
- (C) 24 INCH WIDE CURB AND GUTTER
- (D) ADA PARKING SIGN (REFER TO ARCH. DRAWINGS)
- (E) 24 INCH WHITE STOP BAR
- (F) DUMPSTER ENCLOSURE (REFER TO ARCH. DRAWINGS)
- (G) CONCRETE DUMPSTER PAD (REFER TO ARCH. DRAWINGS)
- (H) CONCRETE TRANSFORMER PAD
- (I) STOP SIGN-MUTCD STD R1-1
- (J) WHITE PARKING STRIPE
- (K) SECURITY FENCING (REFER TO ARCH. DRAWINGS)
- (L) HEAVY DUTY CONCRETE PAVEMENT
- (M) MEDIUM DUTY ASPHALT PAVEMENT
- (N) OMIT
- (O) FLAG POLE (REFER TO ARCH. DRAWINGS)
- (P) WHITE DIRECTIONAL ARROW
- (Q) SECURITY GATE AND ACCESS CONTROLS ISLAND (REFER TO ARCH. DRAWINGS)
- (R) GENERATOR PAD (REFER TO ARCH. DRAWINGS)
- (S) GATE CONTROL EQUIPMENT PAD (REFER TO ARCH. DRAWINGS)



**UTILITY NOTE**

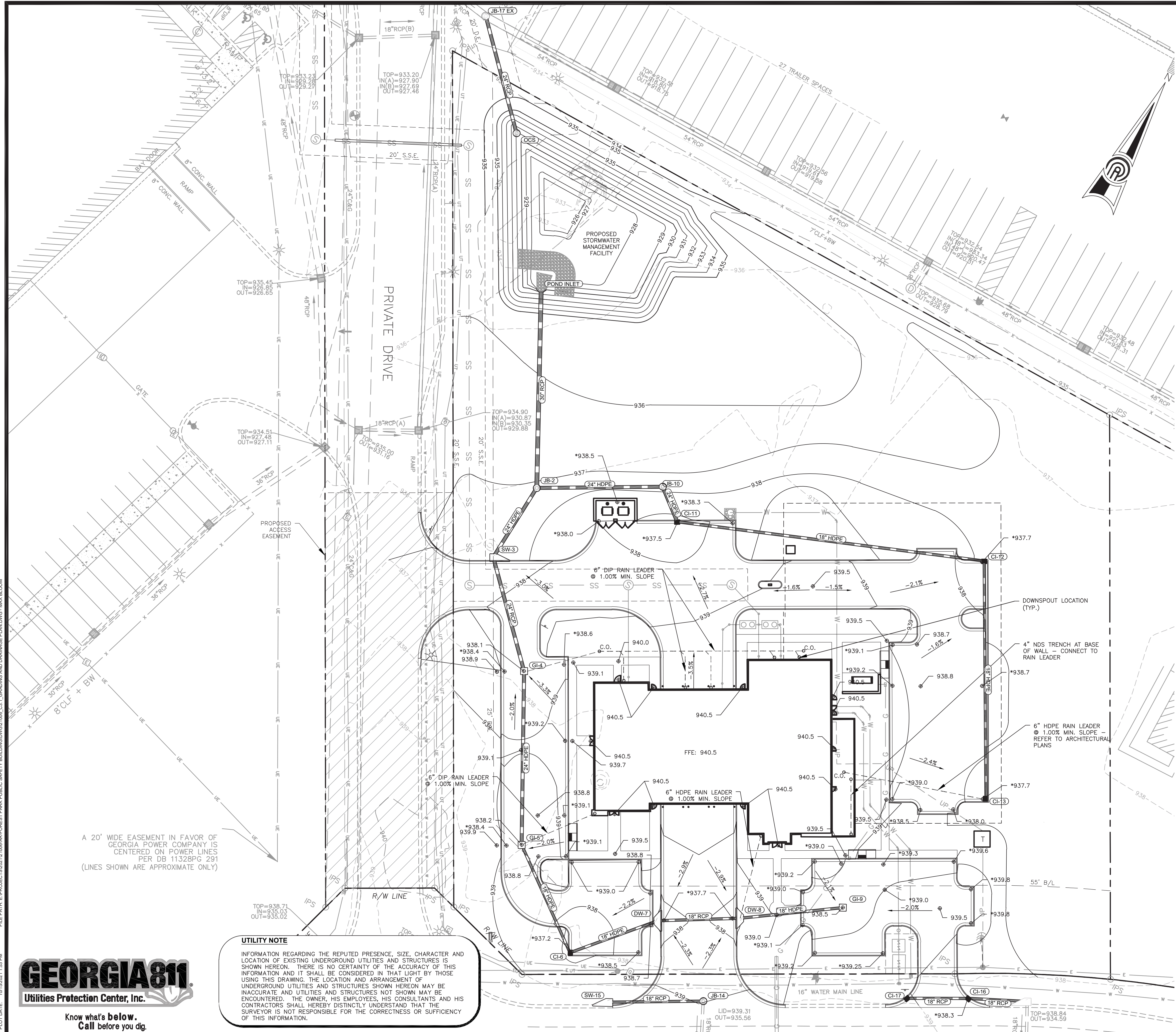
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FILE PATH: L:\PROJECTS\2021\1000-AR-Forest Park Public Safety Building\021000\_C2\_LAYOUT SITE PLAN.DWG - MAX BLOOM  
 PLOT DATE: 10/20/21 1:53 PM



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<b>FOREST PARK GILLEM PUBLIC SAFETY BUILDING</b> Land Lots 211 & 212, District 12 City of Forest Park, GA 30294	
<b>SITE PLAN</b>	<b>SHEET TITLE</b>
DESIGN MB DRAW MB CHECKED TP	RELEASE
DATE NO. DESCRIPTION 10/26/21 RELEASED FOR BID	
10/26/21 DATE	
A21-006 PPI PROJECT NO.	
C2.1	

FILE PATH: E:\PROJECTS\2021\1000-AR-Forest Park Public Safety Building\DWG\021000\_C3\_1 GRADING AND DRAINAGE PLANNING - MAX BLOOM  
 PLOT DATE: 10/20/21 1:53 PM



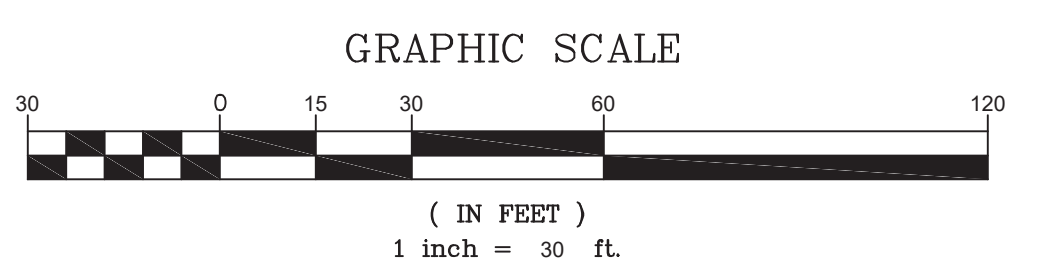
**STORM STRUCTURE LEGEND:**  
 CI: CURB INLET (GDOT 1019AP TYPE 'E')  
 GI: GRATE INLET (GDOT 1019AP TYPE 'A')  
 SW: SINGLE WING CATCH BASIN (GDOT 1033DP)  
 DW: DOUBLE WING CATCH BASIN (GDOT 1034DP)  
 HW: OUTLET HEADWALL (GDOT 1125)  
 JB: JUNCTION BOX (GDOT 1011AP)

- STORM PIPE NOTES:**
- HDPE PIPE, WHERE APPLICABLE, SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO MP7, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET WHICH CONFORMS TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
  - ALL ALUMINUM-COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, WHERE APPLICABLE, WHICH WILL CARRY A LIVE STREAM, SHALL HAVE PAVED INVERTS IN ACCORDANCE WITH AASHTO M-190, TYPE C, EXCEPT THAT THE PIPE NEED NOT BE FULLY COATED. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
  - ALL RCP PIPE JOINTS, IF APPLICABLE, SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE MANUFACTURED IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
  - ALL CMP SHALL BE ALUMINIZED TYPE 2 STEEL, 14GA MIN. AND SHALL MEET ASTM 1760, A929, AASHTO M36, M274.
  - ALL STORM SEWER PIPES AND CULVERTS SHALL BE INSTALLED PER LOCAL STANDARDS AND REGULATIONS.
  - ALL PIPES AND CULVERTS TO BE BEDDED PER LOCAL STANDARDS.
  - COMPACTION TESTING SHALL BE COMPLETED BY AN APPROVED INDEPENDENT GEOTECHNICAL FIRM AT THE OWNER'S EXPENSE. THE CONTRACTOR MUST MAINTAIN A GEOTECHNICAL ENGINEER ON-SITE DURING ALL STORM SEWER PIPE INSTALLATION TO ENSURE PROPER COMPACTION AND BACKFILL.
  - THE FREQUENCY OF TESTING SHALL BE MINIMUM OF ONE TEST PER 500 CUBIC YARDS OF MATERIAL PLACED, OR ONE TEST PER SECTION OF PIPE FROM STRUCTURE TO STRUCTURE.
  - EACH COMPACTION TEST WILL INCLUDE TESTING OF EACH 8-INCH LIFT TO FINAL GRADE.
  - ALL STORMWATER STRUCTURES LOCATED IN THE PUBLIC RIGHT-OF-WAY MUST BE ON THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST.

**NOTE TO CONTRACTOR:**  
 ANY CLEANOUTS LOCATED IN A PAVED AREA ARE TO BE TRAFFIC RATED  
 \* INDICATES SPOT ELEVATION AT EDGE OF PAVEMENT

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 CONTACT: MAX BLOOM  
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 EMAIL: 847MB@PPLIUS

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 745 FOREST PARKWAY  
 FOREST PARK, GA 30297  
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A 20' WIDE EASEMENT IN FAVOR OF GEORGIA POWER COMPANY IS CENTERED ON POWER LINES PER DB 1132BPG 291 (LINES SHOWN ARE APPROXIMATE ONLY)

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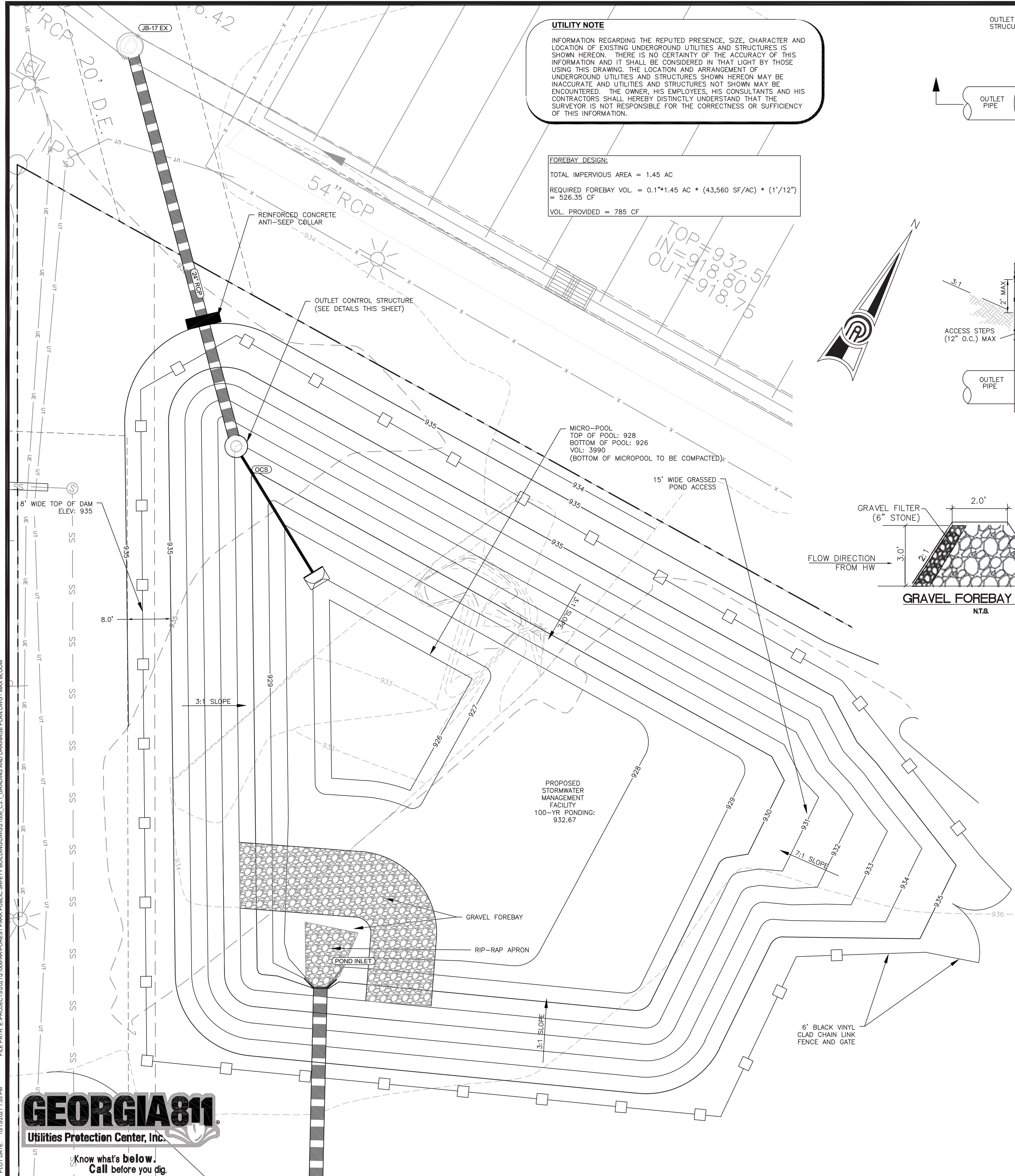
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**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

DATE	NO.	DESCRIPTION	RELEASE
10/26/21		RELEASED FOR BID	

10/26/21 DATE  
 A21-006 PPI PROJECT NO.  
**C3.1**

SHEET TITLE	CHECKED	TP
GRADING AND DRAINAGE PLAN	MB	
DESIGN	MB	
DRAWN	MB	
RELEASE		

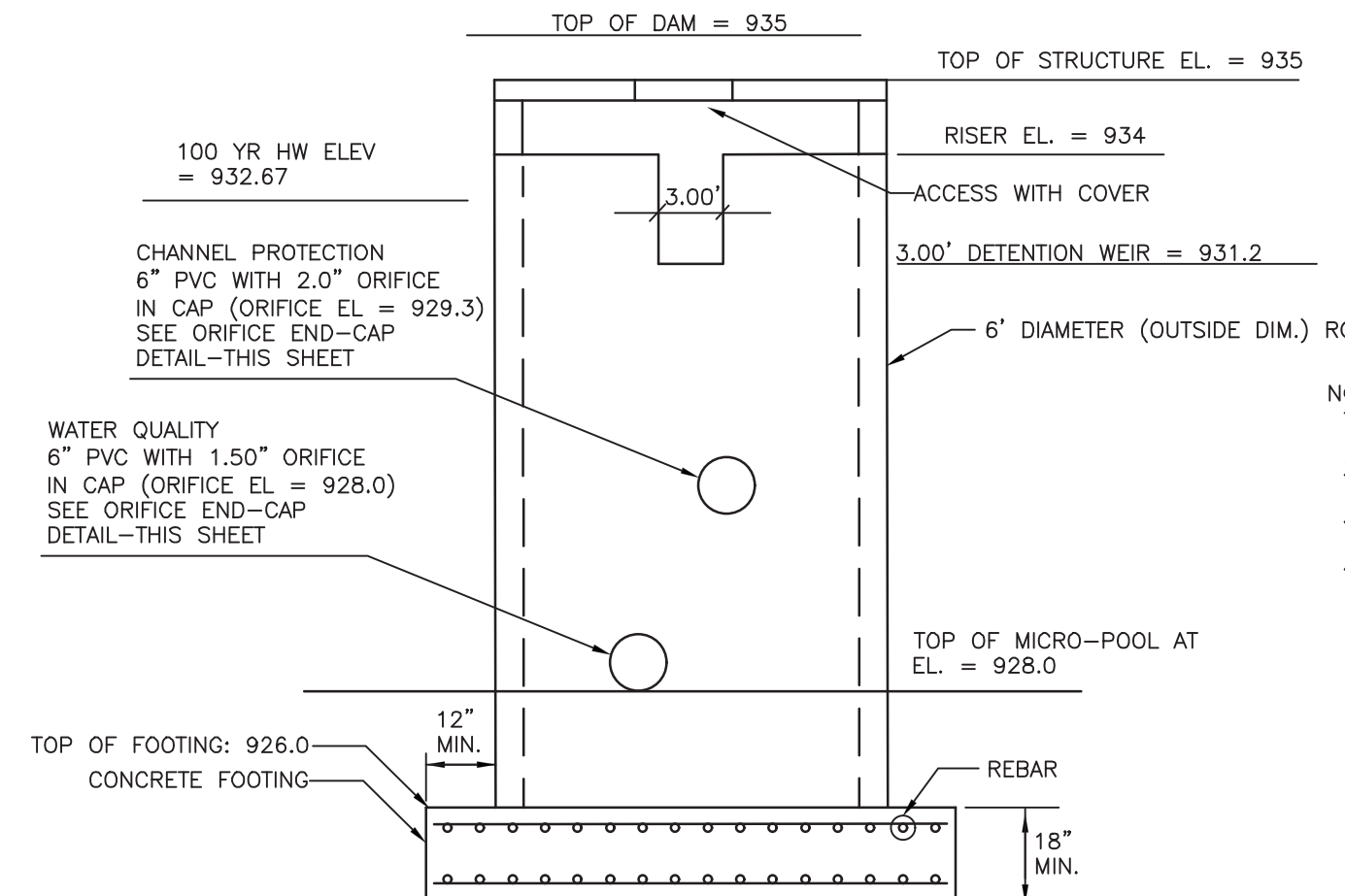
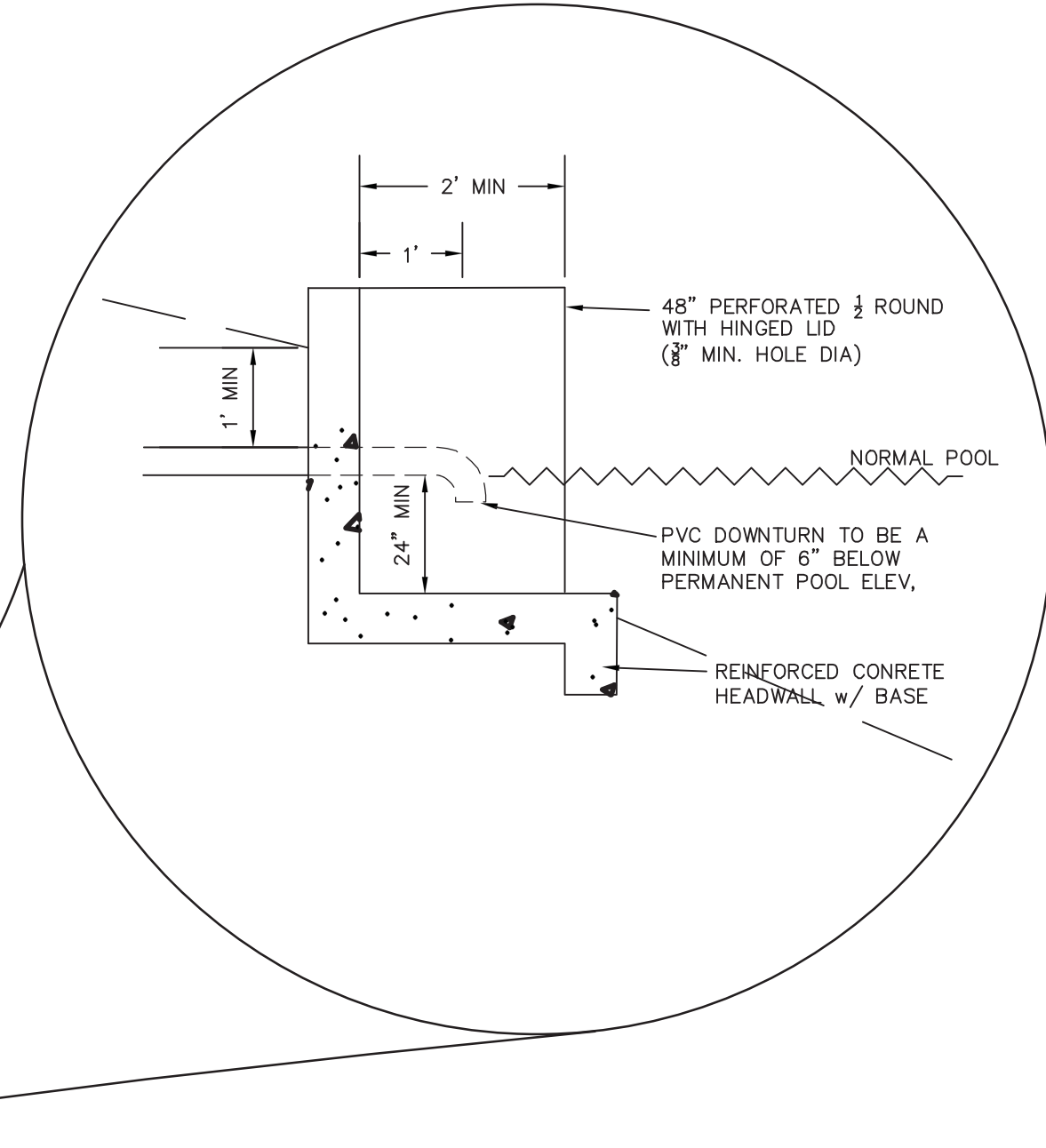
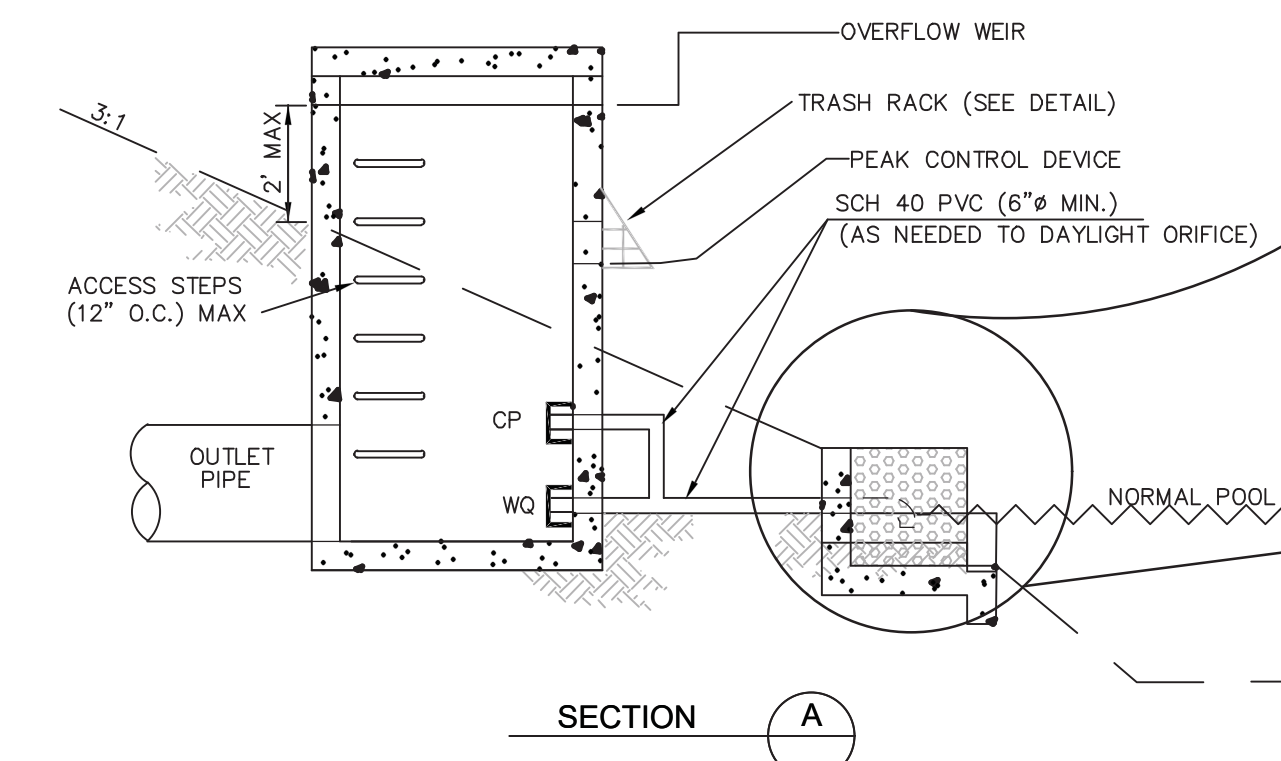
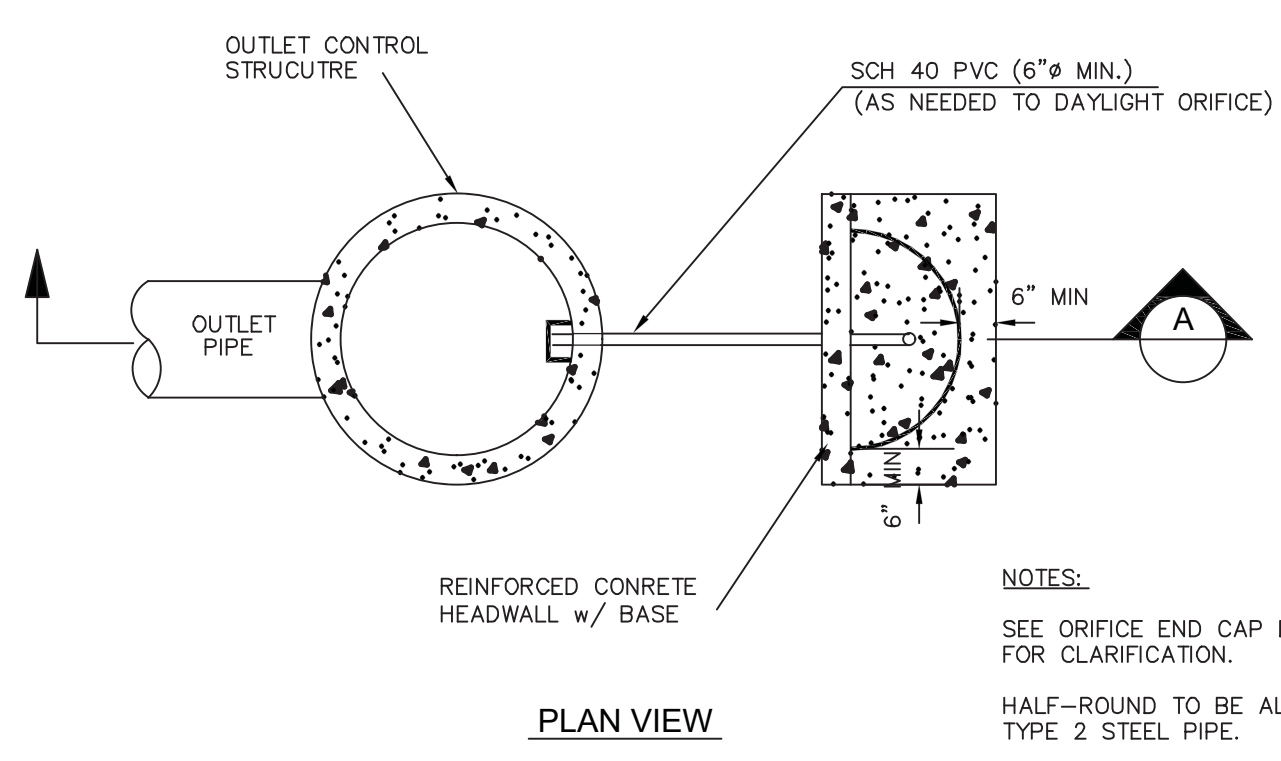
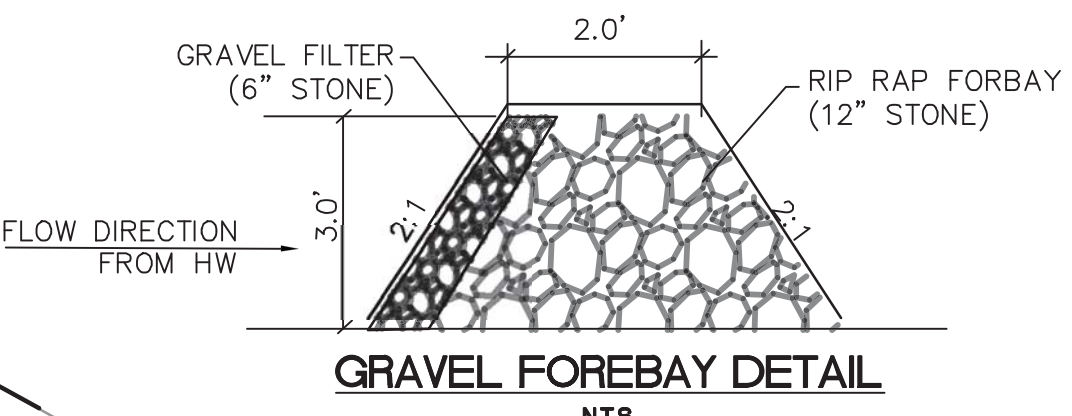


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**FOREBAY DESIGN:**  
 TOTAL IMPERVIOUS AREA = 1.45 AC  
 REQUIRED FOREBAY VOL. =  $0.1 \times 1.45 \text{ AC} \times (43,560 \text{ SF/AC}) \times (1/12)$   
 = 526.35 CF  
 VOL. PROVIDED = 785 CF

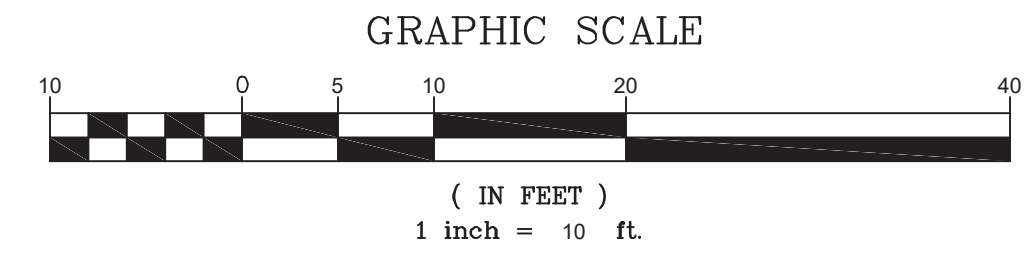
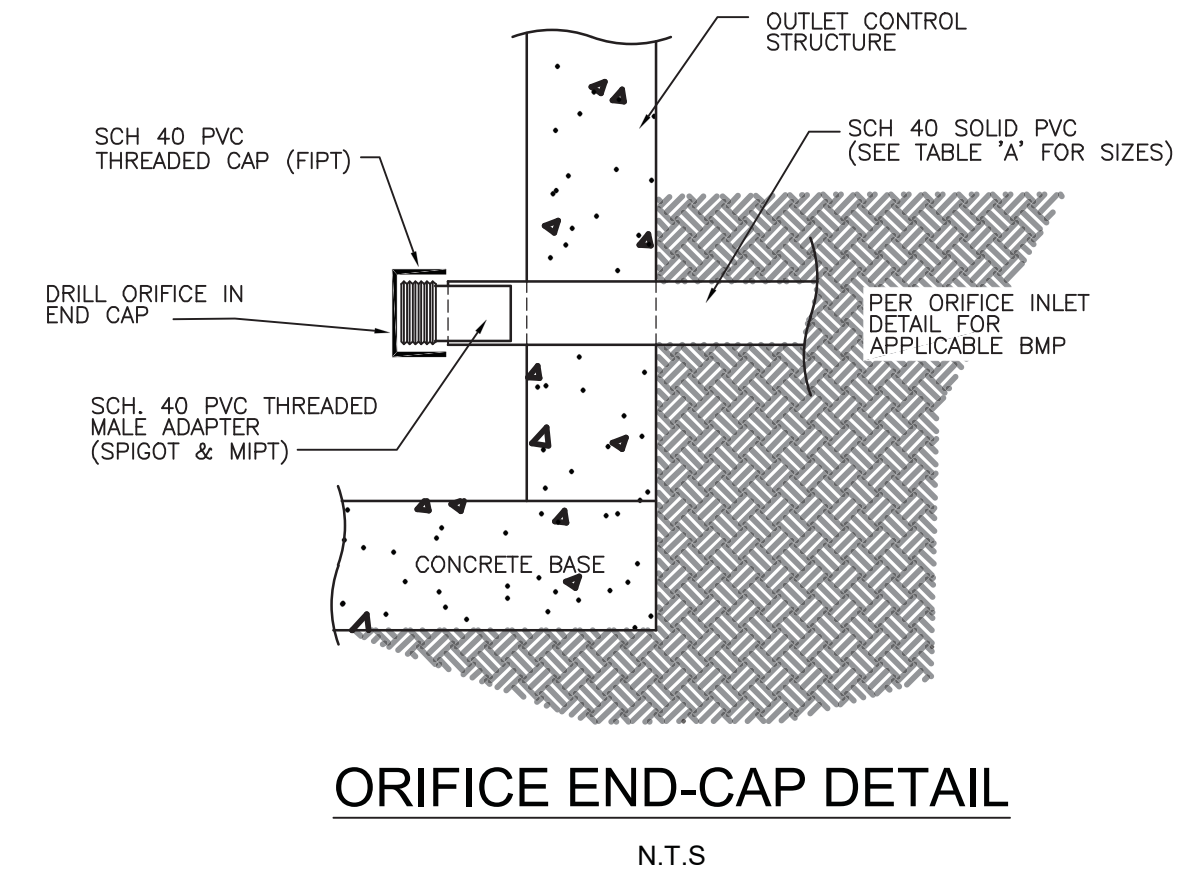
**MICRO-POOL:**  
 TOP OF POOL: 928  
 BOTTOM OF POOL: 926  
 VOL: 3990  
 (BOTTOM OF MICROPOOL TO BE COMPACTED)

**PROPOSED STORMWATER MANAGEMENT FACILITY**  
 100-YR PONDING:  
 932.67



- NOTES:**
1. FILL GAP BETWEEN STRUCTURE & PVC WITH MORTAR OR INSTALL A FERRO ADAPTER.
  2. SEE PLANS FOR REQUIRED ORIFICE SIZE.
  3. REFER TO TABLE 'A' BELOW FOR PIPE SIZE REQUIREMENTS.
  4. VARIATIONS TO THIS DETAIL MAY BE ACCEPTABLE ON A CASE BY CASE BASIS.
  5. ALL PVC TO BE SCH. 40.
  6. ALL NON-THREADED PVC CONNECTIONS TO BE BONDED WITH PVC CEMENT.
  7. MONOLITHIC WALLS SHALL BE ORIFICES ON DOWN STREAM FACE AND BE FULLY ACCESSIBLE FROM POND EXTERIOR.

TABLE 'A'	
ORIFICE DIAMETER	REQUIRED PIPE SIZE
< 3"	6"
3" TO <5"	8"
5" TO <8"	12"
8" TO <12"	16"



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STAMP

**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

**STORMWATER MANAGEMENT FACILITY DETAILS**

DATE	NO.	DESCRIPTION	DESIGN	DRAWN	CHECKED	TP
10/26/21		RELEASED FOR BID	MB	MB		

SHEET TITLE

DATE: 10/26/21

A21-006  
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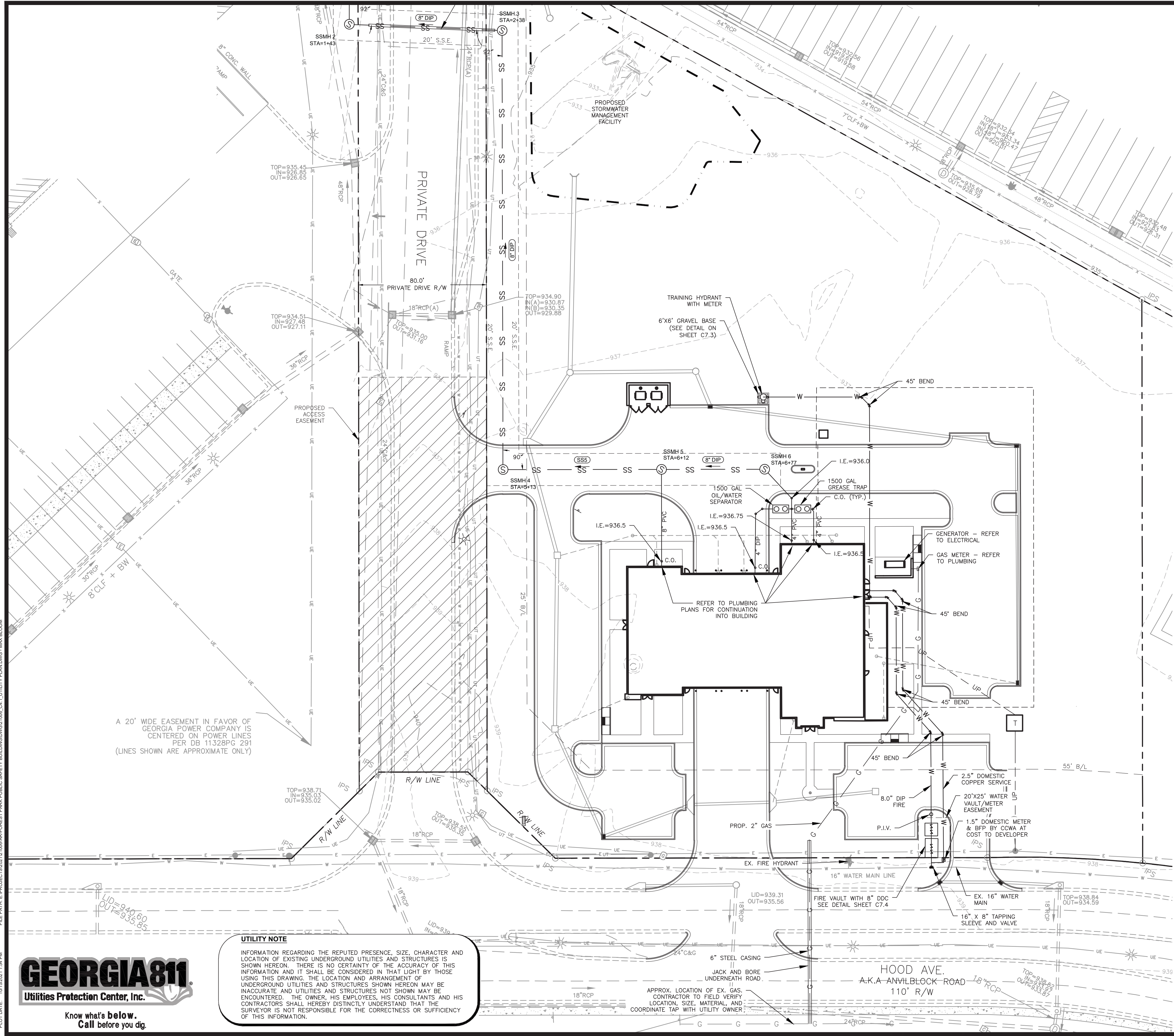
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RELEASE

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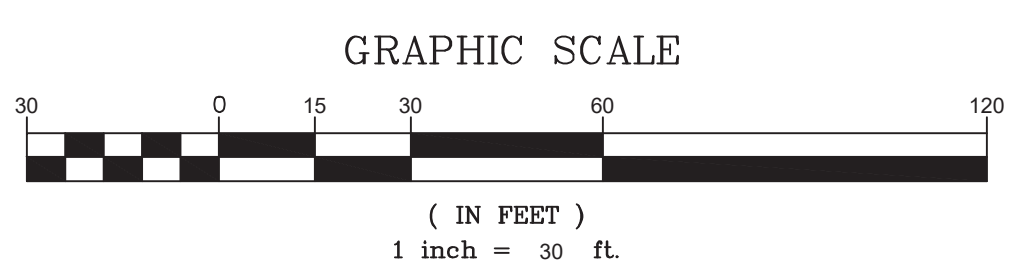
- SANITARY SEWER NOTES:**
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  - ALL NEW PIPE TIE-INS REQUIRE NEW INVERTS IN MANHOLES.
  - BORE WITHIN THE VICINITY OF THE MANHOLE AND CORE FROM THE INSIDE OF THE MANHOLE IN THE PRESENCE OF AN INSPECTOR.
  - EXISTING PIPE CAN ONLY BE CUT IN THE PRESENCE OF A COUNTY INSPECTOR. CUT-IN MANHOLE REQUIRED UNLESS 'DOGHOUSE MANHOLE' SPECIFICALLY APPROVED BY CLAYTON COUNTY PRIOR TO CONSTRUCTION.
  - IN THE FIRST NEWLY INSTALLED MANHOLE UPSTREAM OF THE EXISTING TIE-IN MANHOLE, CONTRACTOR SHALL INSTALL TEMPORARY MECHANICAL PLUGS ON THE INFLOW AND OUTFLOW INVERTS.
  - THE DESIGNER AND DEVELOPER ACKNOWLEDGE THAT ALL WORK REPRESENTED IN THESE CONSTRUCTION DOCUMENTS HAS BEEN DESIGNED TO FULLY COMPLY WITH THE CURRENT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS, IF DEEMED NECESSARY BY THE COUNTY INSPECTOR. IN CASE OF CONFLICT BETWEEN THE PERMITTED DOCUMENTS AND THE CURRENT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE COUNTY SPECIFICATIONS SHALL GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES.
  - OWNER SHALL MAINTAIN PLUGS IN DUMPSTER DRAINS AT ALL TIMES SO AS TO PROHIBIT LIQUID DRAINAGE FROM DUMPSTER. (POLICY)
  - MAINTAIN 10' SEPARATION BETWEEN WATER AND SEWER LINES.
  - EXTERIOR GREASE TRAPS WILL BE REQUIRED FOR ALL RESTAURANTS.
  - NO TREES OR PERMANENT STRUCTURES ALLOWED IN SANITARY SEWER EASEMENTS.
  - ALL UTILITIES TO BE INSPECTED BY DEPARTMENT OF WATER RESOURCES.
  - DETECTION TAPE SHALL BE INSTALLED ABOVE ALL NON-FERROUS PIPE HAVING A BURY DEPTH OF SIX (6) FEET OR MORE. MYLAR DETECTION TAPE OR FERROUS WIRE SHALL BE INSTALLED TWO (2) FEET BELOW FINISHED GRADE SUCH THAT SEWER AND/OR LATERAL CAN BE DETECTED AFTER BURIAL.

- WATER NOTES:**
- HYDRANTS ARE TO BE INSTALLED SO THAT THE LARGE FIRE DEPT. CONNECTION FACES THE STREET. THAT SAME CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE. HYDRANTS LOCATED IN PARKING AREAS SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES.
  - HYDRANTS AND MAINS SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
  - CURB SHALL BE IN PLACE PRIOR TO INSTALLATION OF WATER MAIN.
  - NOTE TO CONTRACTOR: VALVES AND FITTINGS MAY NOT BE DRAWN TO SCALE. VALVES ARE NOT TO BE INSTALLED UNDERNEATH ROAD PAVING.
  - NOTE TO CONTRACTOR: PLACE VALVE STREET SIDE OF SIDEWALK, PLACE FIRE HYDRANT BACK SIDE OF SIDEWALK TO WITHIN ONE FOOT OF R/W.
  - METER FEES MUST BE PAID PRIOR TO ISSUANCE OF BUILDING PERMIT OR BEFORE ISSUANCE OF CONSTRUCTION PERMIT OR ISSUANCE OF CONSTRUCTION PERMIT FOR METERS 3" OR LARGER.
  - DOUBLE CHECK BACK FLOW PREVENTION DEVICES FOR ALL METERS AND/OR FIRE LINES MUST BE TESTED & APPROVED BEFORE ISSUANCE OF FINAL CERTIFICATE OR OCCUPANCY.
  - TAPPING SADDLE AND TAPPING GATE VALVE FOR CONNECTION TO EXISTING WATER MAIN TO BE PROVIDED AND INSTALLED BY DEVELOPER.
  - THE WATER DISTRIBUTION SYSTEM AND/OR SANITARY SEWER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS CONTAINED WITHIN THE CCWA DOCUMENT TITLED, STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS AND SANITARY SEWER SYSTEMS, DATED 01 JUNE 2001

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**FOREST PARK GILLEM  
 PUBLIC SAFETY  
 BUILDING**

Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

DATE	NO.	DESCRIPTION	
10/26/21		RELEASED FOR BID	

UTILITY PLAN (1)	SHEET TITLE	DRAWN	CHECKED
		MB	TP
		DESIGN	RELEASE
		MB	TP

10/26/21  
 DATE

A21-006  
 PPI PROJECT NO.

**C4.1**

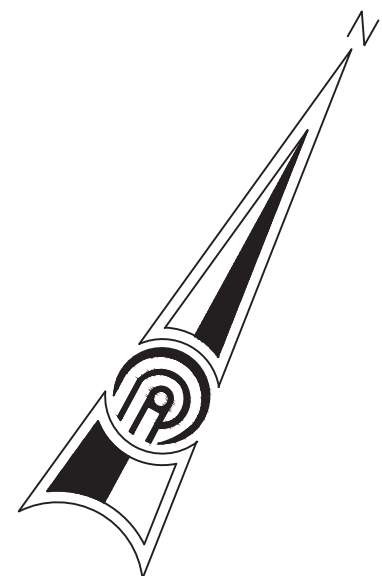
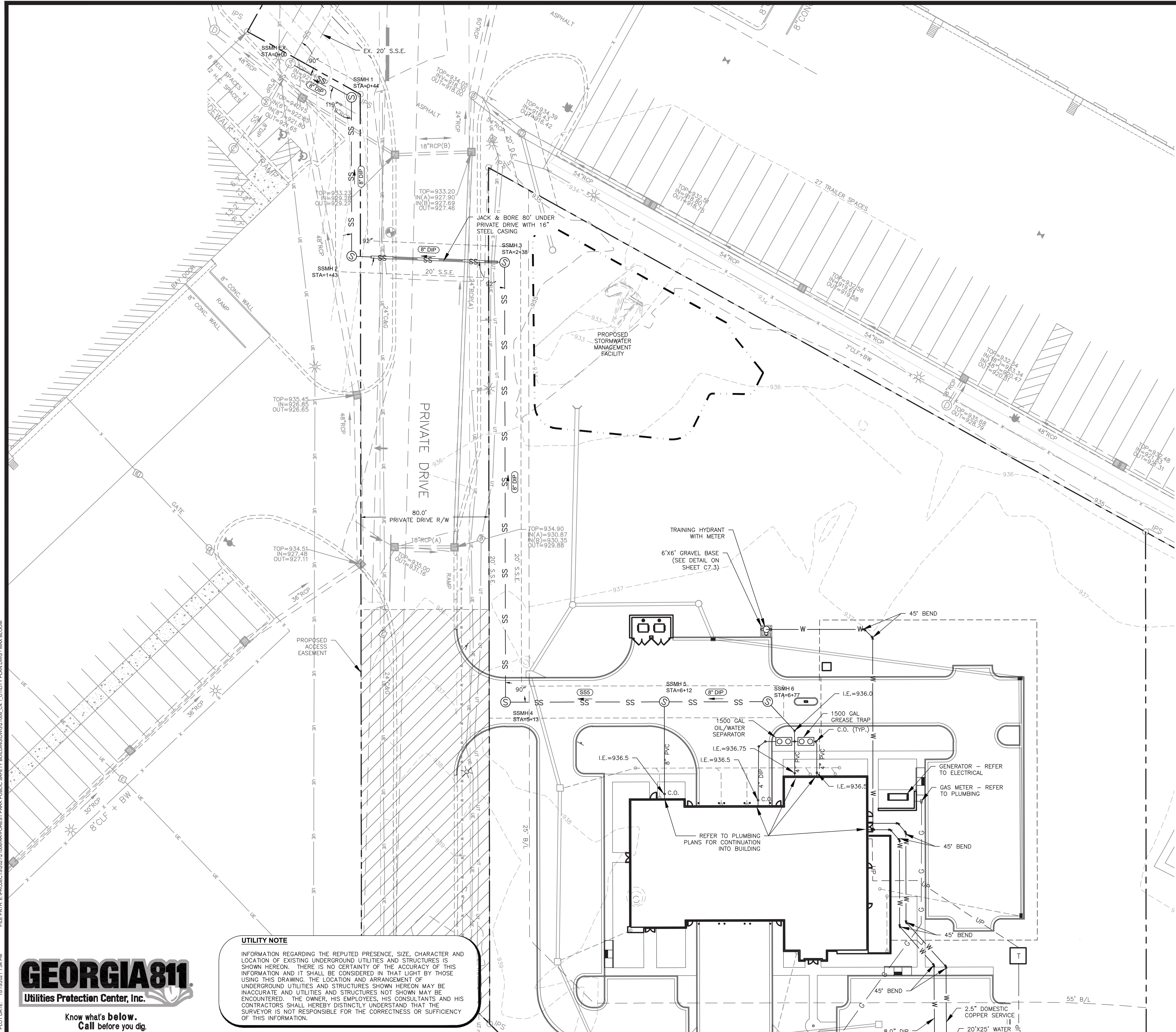
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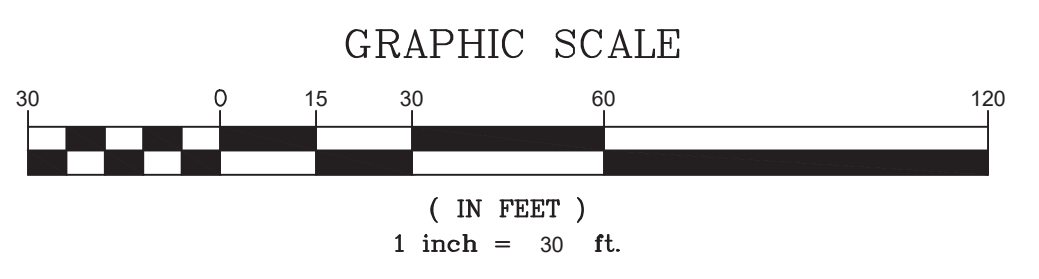
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10. NO TREES OR PERMANENT STRUCTURES ALLOWED IN SANITARY SEWER EASEMENTS.
11. ALL UTILITIES TO BE INSPECTED BY DEPARTMENT OF WATER RESOURCES.
12. DETECTION TAPE SHALL BE INSTALLED ABOVE ALL NON-FERROUS PIPE HAVING A BURY DEPTH OF SIX (6) FEET OR MORE. NYLAR DETECTION TAPE OR FERROUS WIRE SHALL BE INSTALLED TWO (2) FEET BELOW FINISHED GRADE SUCH THAT SEWER AND/OR LATERAL CAN BE DETECTED AFTER BURIAL.

**WATER NOTES:**

1. HYDRANTS ARE TO BE INSTALLED SO THAT THE LARGE FIRE DEPT. CONNECTION FACES THE STREET. THAT SAME CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE. HYDRANTS LOCATED IN PARKING AREAS SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES.
2. HYDRANTS AND MAINS SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
3. CURB SHALL BE IN PLACE PRIOR TO INSTALLATION OF WATER MAIN.
4. NOTE TO CONTRACTOR: VALVES AND FITTINGS MAY NOT BE DRAWN TO SCALE. VALVES ARE NOT TO BE INSTALLED UNDERNEATH ROAD PAVING.
5. NOTE TO CONTRACTOR: PLACE VALVE, STREET SIDE OF SIDEWALK. PLACE FIRE HYDRANT BACK SIDE OF SIDEWALK TO WITHIN ONE FOOT OF R/W.
6. METER FEES MUST BE PAID PRIOR TO ISSUANCE OF BUILDING PERMIT OR BEFORE ISSUANCE OF CONSTRUCTION PERMIT OR ISSUANCE OF CONSTRUCTION PERMIT OR ISSUANCE OF CONSTRUCTION PERMIT FOR METERS 3" OR LARGER.
7. DOUBLE CHECK BACK FLOW PREVENTION DEVICES FOR ALL METERS AND/OR FIRE LINES MUST BE TESTED & APPROVED BEFORE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY.
8. TAPPING SADDLE AND TAPPING GATE VALVE FOR CONNECTION TO EXISTING WATER MAIN TO BE PROVIDED AND INSTALLED BY DEVELOPER.
9. THE WATER DISTRIBUTION SYSTEM AND/OR SANITARY SEWER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS CONTAINED WITHIN THE CCWA DOCUMENT TITLED, STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEMS AND SANITARY SEWER SYSTEMS, DATED 01 JUNE 2001.

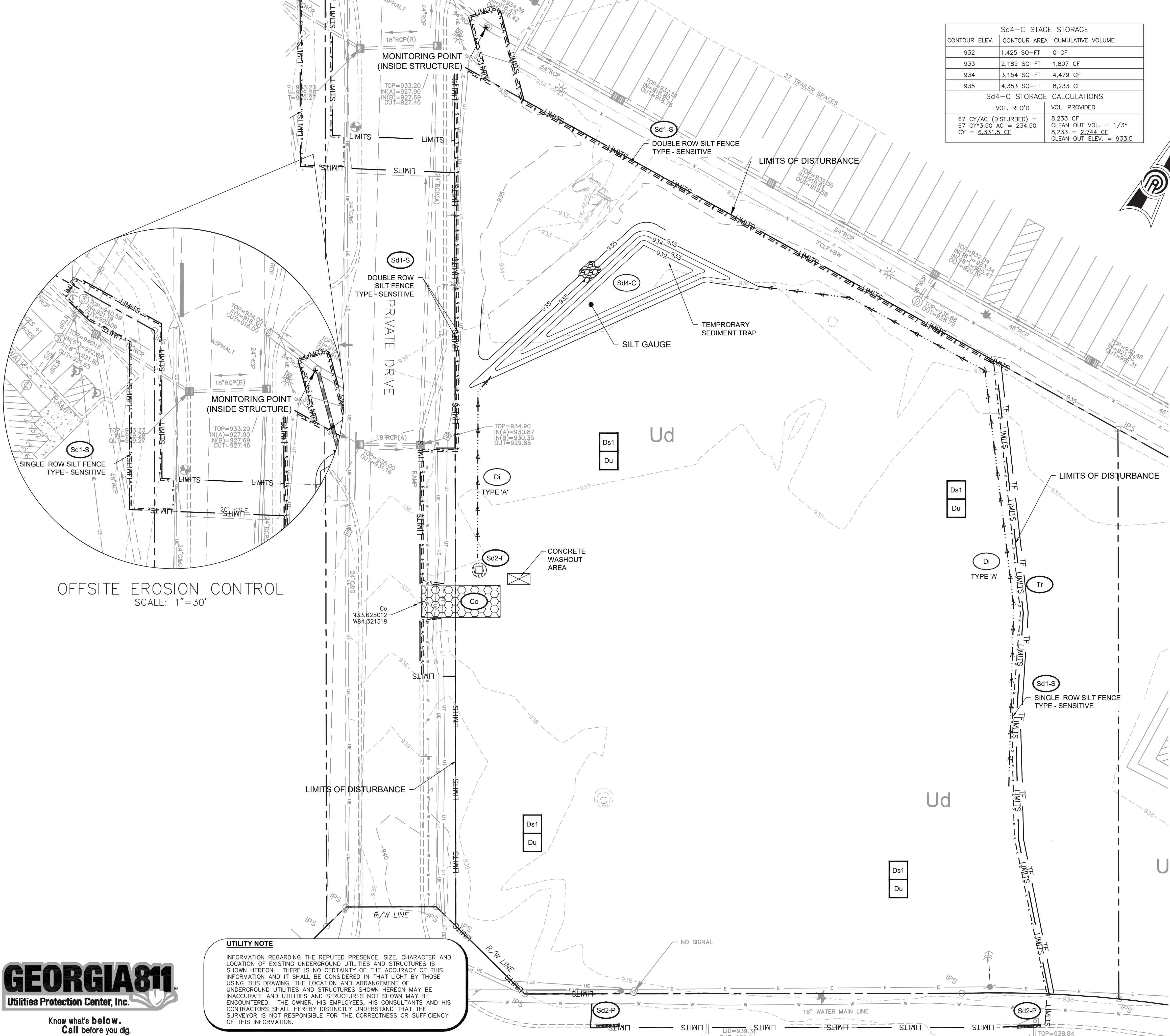
**ENGINEER**  
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planners • engineers • architects • surveyors 400 Pike Boulevard, Lawrenceville, Ga 30046 770.338.8000 • www.ppi.us	
<b>FOREST PARK GILLEM PUBLIC SAFETY BUILDING</b>	
Land Lots 211 & 212, District 12 City of Forest Park, GA 30294	
UTILITY PLAN (2)	
SHEET TITLE	
DESIGN MB	DRAWN MB
CHECKED MB	TP
DATE NO. DESCRIPTION 10/26/21 RELEASED FOR BID	
10/26/21 DATE	
A21-006 PPI PROJECT NO.	
C4.2	
RELEASE	

FILE PATH: E:\PROJECTS\2021\1000-AR-Forest Park Public Safety Building\DWG\21000\_C5\_1\_EROSION CONTROL.DWG - MAX BLOOM  
 PLOT DATE: 10/26/21 11:54 PM



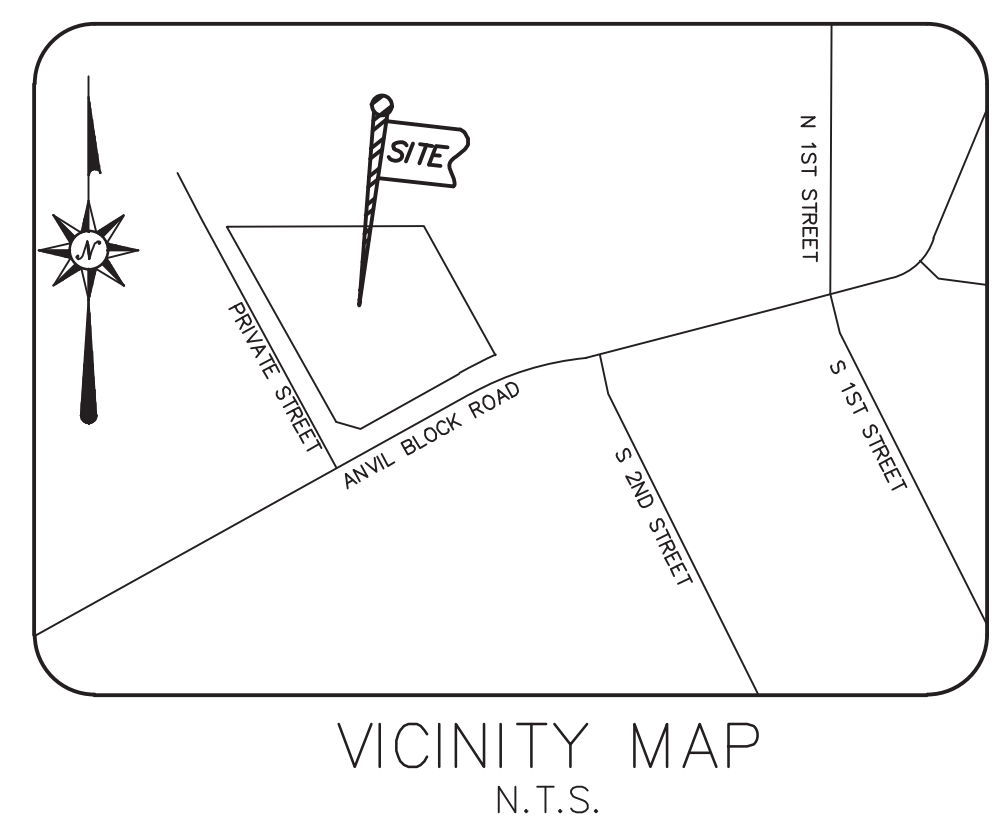
OFFSITE EROSION CONTROL  
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Sd4-C STAGE STORAGE		
CONTOUR ELEV.	CONTOUR AREA	CUMULATIVE VOLUME
932	1,425 SQ-FT	0 CF
933	2,189 SQ-FT	1,807 CF
934	3,154 SQ-FT	4,479 CF
935	4,353 SQ-FT	8,233 CF

Sd4-C STORAGE CALCULATIONS	
VOL. REQ'D	VOL. PROVIDED
67 CY/AC (DISTURBED) = 8,233 CF	8,233 CF
67 CY*3.50 AC = 234.50	CLEAN OUT VOL. = 1/3*
CY = 6,331.5 CF	8,233 = 2,744 CF
	CLEAN OUT ELEV. = 933.5



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SOIL SERIES	
SYMBOL	DESCRIPTION
Ud	Urban Land, 2 to 8 percent slopes

**CONSTRUCTION EXIT GPS LOCATIONS:**  
 LAT: N33.625012  
 LONG: W84.321318

**PRIMARY PERMITTEE:**  
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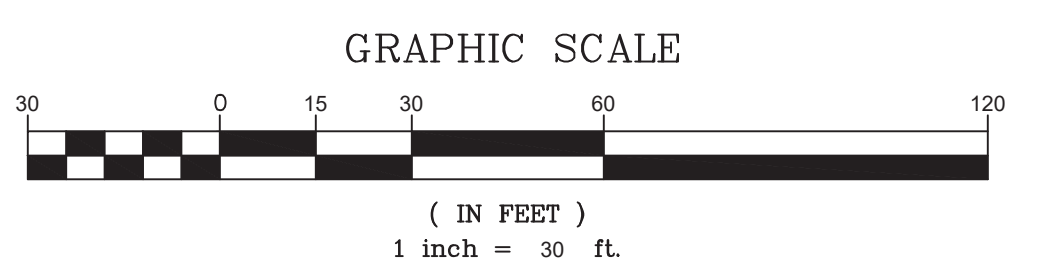
**24-HOUR EMERGENCY CONTACT:**  
 JAMES SHELBY  
 404-201-1099

**STATE WATERS NOTE:**  
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TOTAL PROJECT AREA 18 Total Site Area  
 DISTURBED AREA 4.16 AC.

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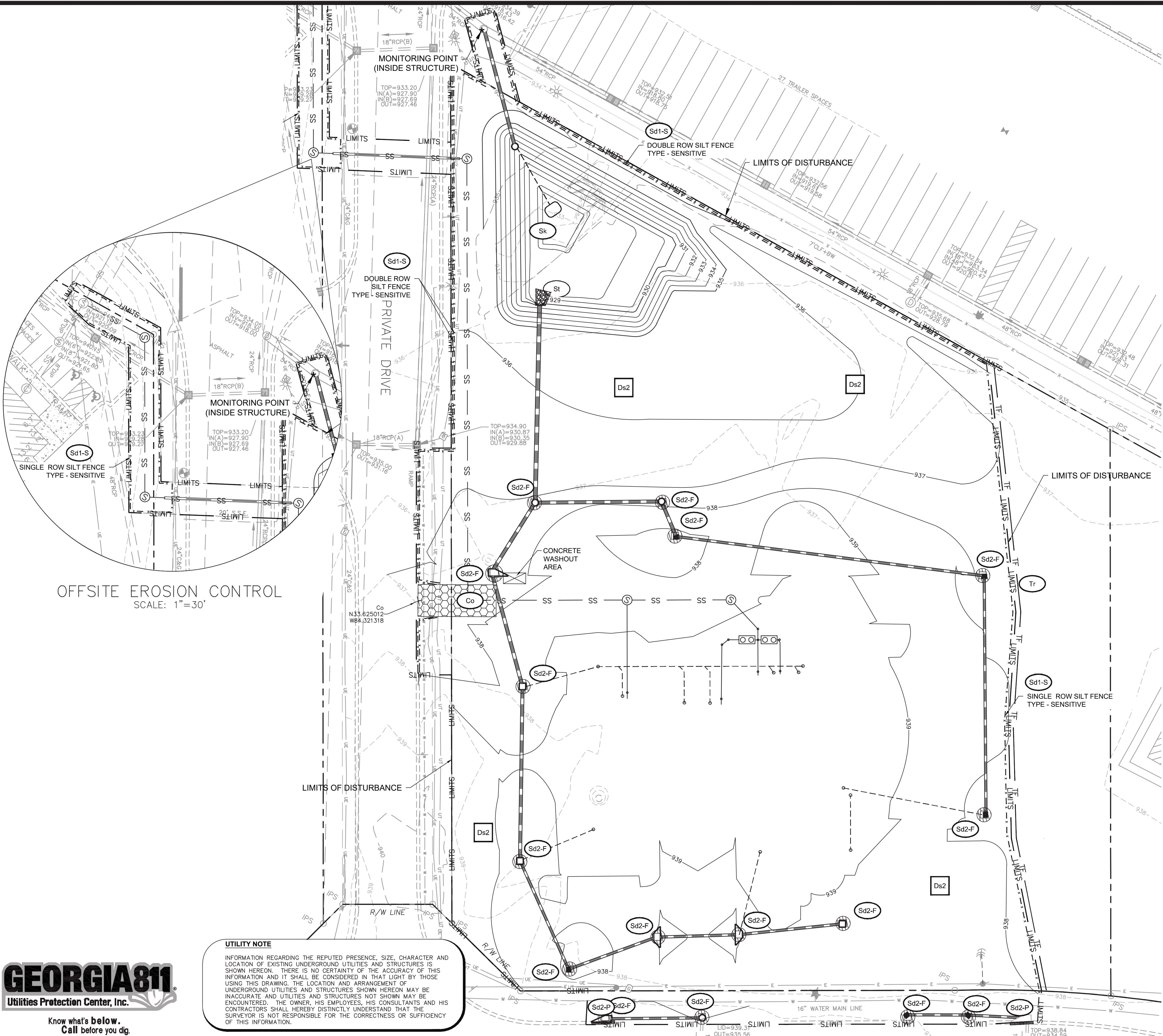
**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

DATE	DESCRIPTION	DESIGN	CHECKED
10/26/21	RELEASED FOR BID	MB	TP

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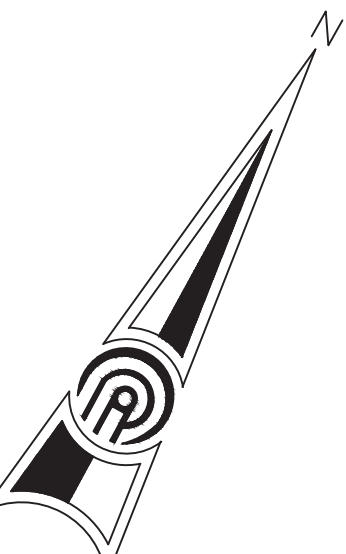
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 DATE  
 A21-006  
 PPI PROJECT NO.  
**C5.1**

FILE PATH: E:\PROJECTS\2021\1000-AR-Forest Park Public Safety Building\DWG\21000\_C5.1\_EROSION CONTROL.DWG - MAX BLOOM  
 PLOT DATE: 10/26/21 1:54 PM



OFFSITE EROSION CONTROL  
 SCALE: 1"=30'

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SOIL SERIES	
SYMBOL	DESCRIPTION
Ue	Urban Land, 2 to 6 percent slopes

**CONSTRUCTION EXIT GPS LOCATIONS:**  
 LAT: N33.625012  
 LONG: W84.321318

**PRIMARY PERMITEE:**  
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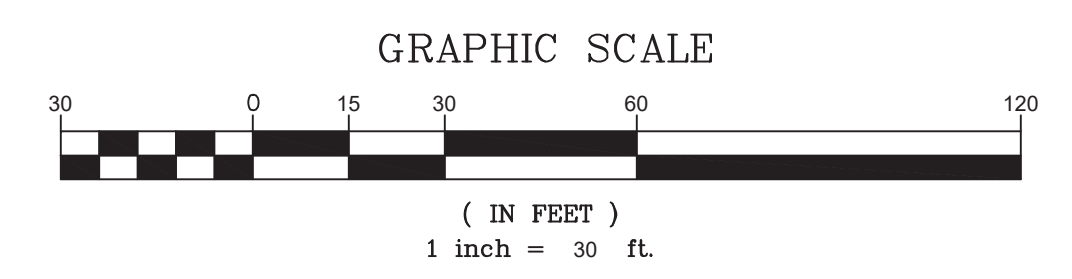
**24-HOUR EMERGENCY CONTACT:**  
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 404-201-1099

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**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

INTERMEDIATE EROSION CONTROL PLAN

SHEET TITLE	CHECKED
DRAWN	TP
DESIGN	MB
RELEASE	MB

DATE: 10/26/21  
 10/26/21 RELEASED FOR BID

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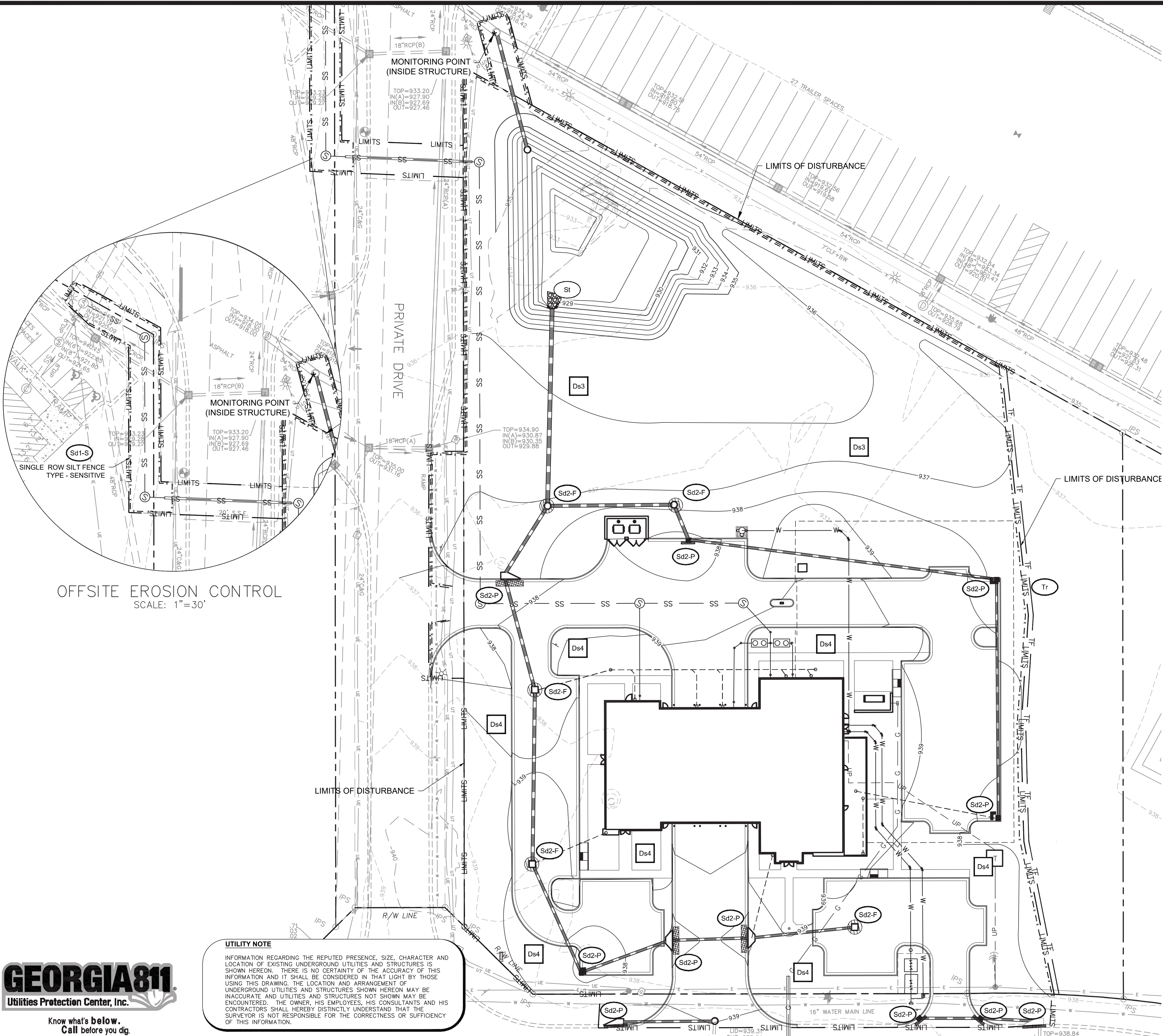
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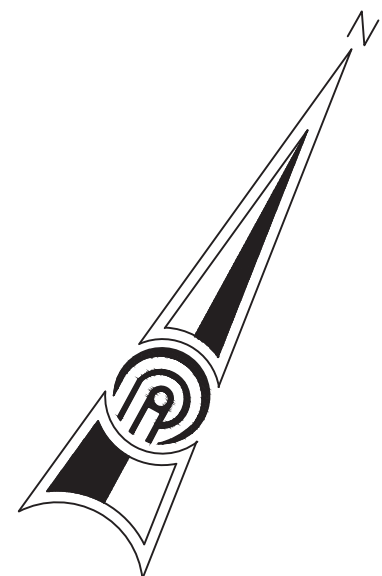
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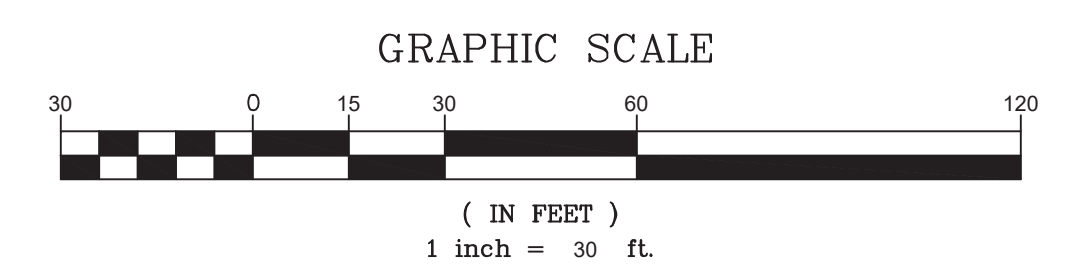
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 770.338.8000 • www.ppi.us

**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

FINAL EROSION CONTROL PLAN	SHEET TITLE
DESIGN	DRAWN
MB	MB
CHECKED	TP
RELEASE	RELEASE

DATE: 10/26/21  
 DATE: 10/26/21  
 PPI PROJECT NO. A21-006  
C5.3



**SAMPLING FREQUENCY #31**

PRODUCT SPECIFIC PRACTICES BELOW ARE LISTED IN ACCORDANCE WITH PART IV.C.6. D OF THE GAR 10001-STAND ALONE PERMIT

- a. SAMPLING FREQUENCY.
  - (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
  - (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.
  - (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
    - (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
    - (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTING A NOT IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
    - (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
    - (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED, PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
    - (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

\*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

**REPORTING OF SAMPLING #31**

REQUIREMENTS FOR REPORTING OF SAMPLING POINTS ARE LISTED BELOW IN ACCORDANCE WITH PART IV. OF THE GAR 10001-STAND ALONE PERMIT

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
  - a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
  - b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
  - c. THE DATE(S) ANALYSES WERE PERFORMED;
  - d. THE TIME(S) ANALYSES WERE INITIATED;
  - e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
  - f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
  - g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
  - h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU," AND
  - i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

**RETENTION OF RECORDS #32**

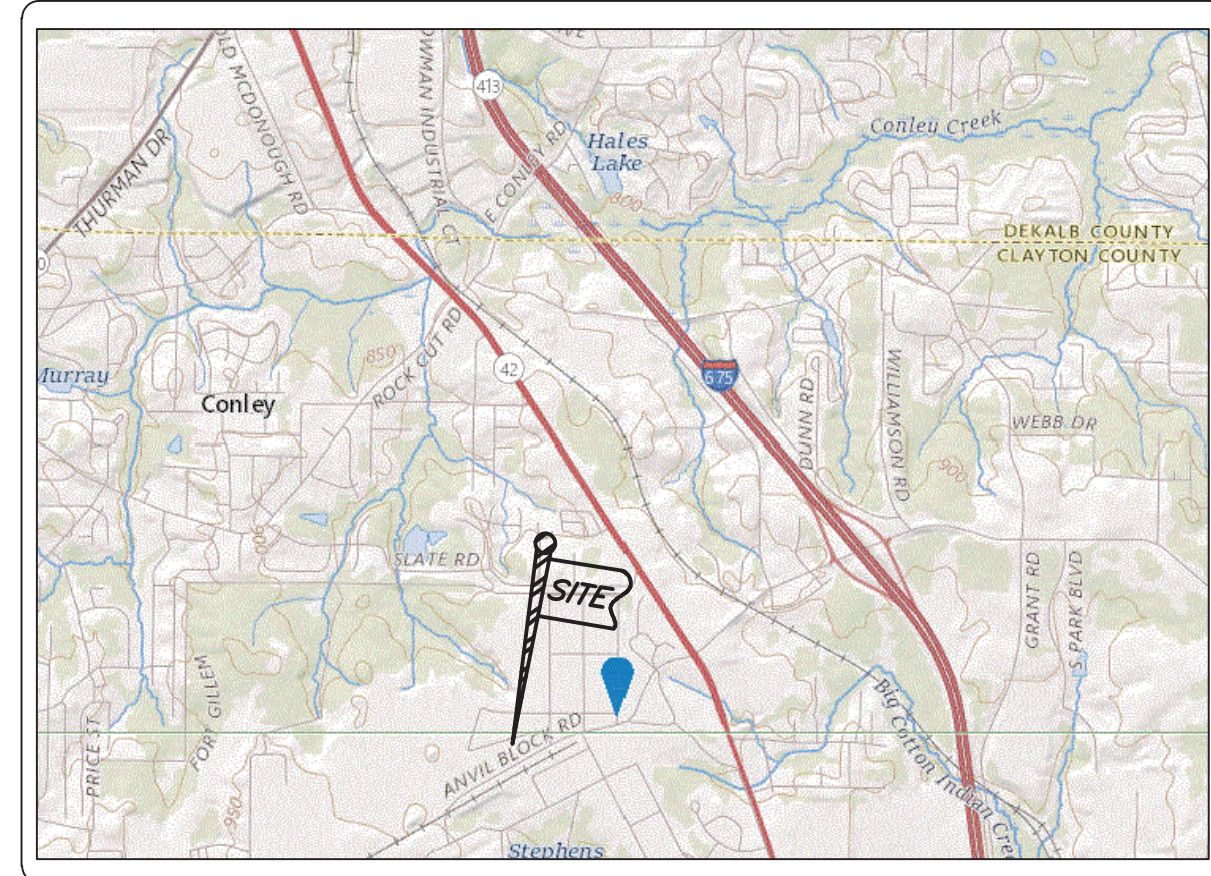
REQUIREMENTS FOR RETENTION OF RECORDS ARE LISTED BELOW IN ACCORDANCE WITH PART IV.E OF THE GAR 10001-STAND ALONE PERMIT

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
  - a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
  - b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
  - c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 OF THIS PERMIT;
  - d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
  - e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
  - f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
  - g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2) OF THIS PERMIT.
- 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING (INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION SINCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

**SAMPLE METHODS #33**

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- (A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- (B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- (C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).
- (D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.
- (E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- (F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- (G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).
- (H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.



Topographic Map--Receiving Waters to Mulberry River

**NTU LIMIT RATIONALE #35**

REFER TO APPENDIX "B" WITHIN NPDES GAR 10001 PERMIT FOR NTU LIMIT CHART BASED ON STREAM TYPE SUPPORTING WARM WATER FISHERIES OR TROUT STREAMS.

SIZE OF CONSTRUCTION SITE: 19.06 ACRES AC.  
SURFACE WATER DRAINAGE AREA: 0.54 SQ. MI.  
TYPE OF RECEIVING WATER: PERENNIAL STREAM

APPENDIX B RATIONALE FOR OUTFALL SAMPLING POINTS WHERE APPLICABLE.

NTU	WARM WATER (SUPPORTING WARM WATER FISHERIES) SURFACE WATER DRAINAGE AREA, SQUARE MILES					
	0-4.99	5-10.00	10-24.99	25-40.50	40.50-90.50	90.50-490.50
1.00-10	75	150	200	400	750	750
10.01-25	50	100	100	200	300	750
25.01-50	50	50	100	100	200	750
50.01-100	50	50	50	100	150	600
100.01+	50	50	50	50	100	100

TO USE THESE TABLES, SELECT THE SIZE (ACRES) OF THE FACILITY OR COMMON DEVELOPMENT. THEN, SELECT THE SURFACE WATER DRAINAGE AREA (SQUARE MILES).

**PRE- VS. POST RUNOFF #45**

REFER TO STORMWATER MANAGEMENT REPORT FOR DETAILED ANALYSIS OF PRE-DEVELOPED RUNOFF CONDITIONS, POST-DEVELOPED RUNOFF CONDITIONS, AND CONTROLS DESIGNED TO CHANGES IN SITE CONDITIONS DUE TO DEVELOPMENT (I.E. WATER QUALITY, CHANNEL PROTECTION, AND/OR DETENTION).

PRE-DEVELOPED RUNOFF COEFFICIENT (CURVE NUMBER):  
POST-DEVELOPED RUNOFF COEFFICIENT (CURVE NUMBER):  
SUMMARY OF POST-DEVELOPED STORMWATER CONTROLS USED:

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**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
Land Lots 211 & 212, District 12  
City of Forest Park, GA 30294

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**EROSION CONTROL NOTES (2)**

DATE	NO.	DESCRIPTION	DESIGN	DRAWN	CHECKED	TP
10/26/21		RELEASED FOR BID	MB	MB	TP	

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10/26/21  
DATE

A21-006  
PPI PROJECT NO.

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**C5.5**

**GSWCC**  
GEORGIA SOIL AND WATER CONSERVATION COMMISSION  
**MAXWELL E BLOOM**  
Level II Certified Design Professional  
CERTIFICATION NUMBER 0000079755  
ISSUED: 07/01/21 EXPIRES: 07/01/24

# GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES  
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

### STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A driveway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNGRAN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNGRAN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, piles of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/draws water from the surface of sediment ponds, traps, or ditches at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

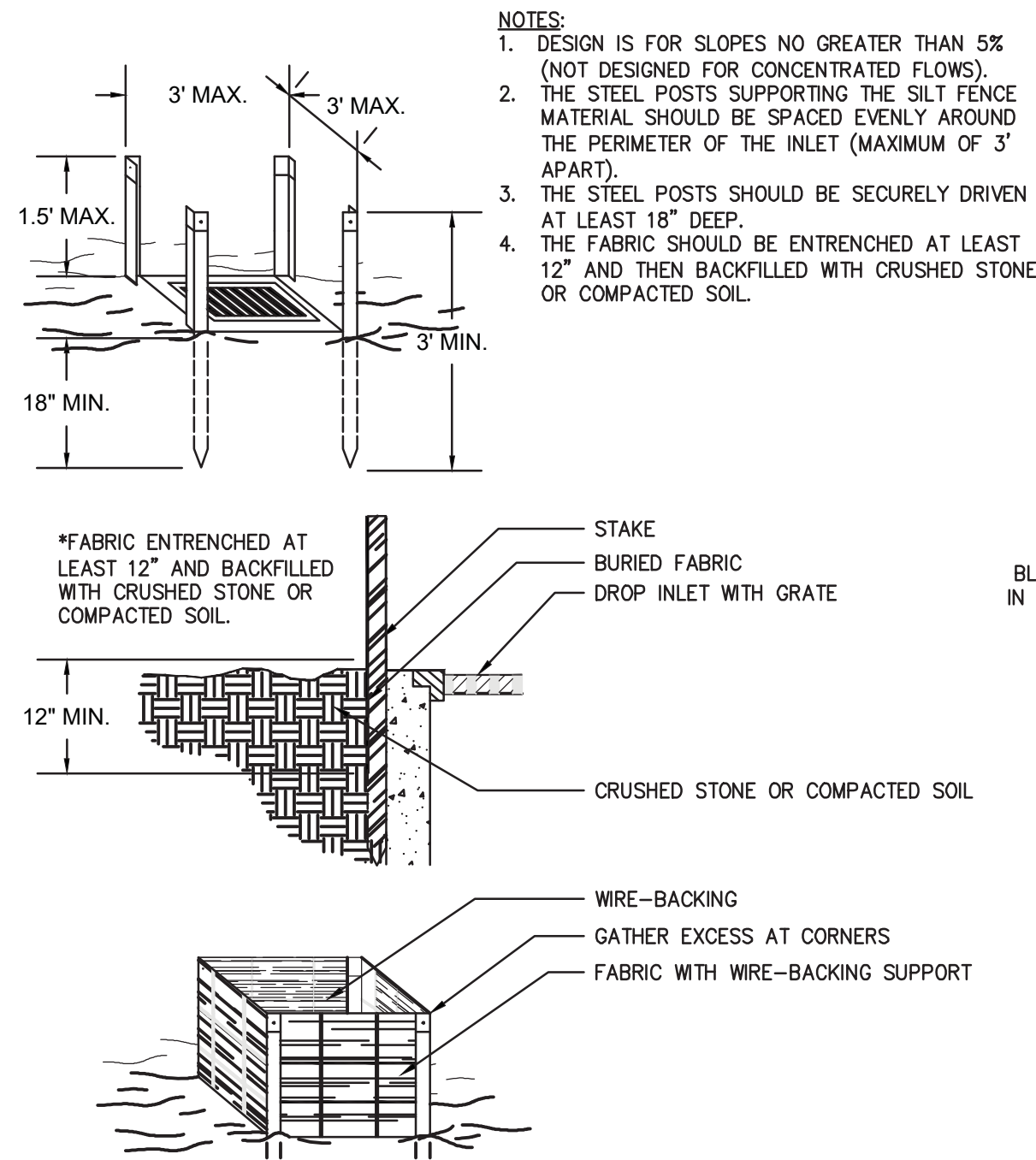
### STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATIVE WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

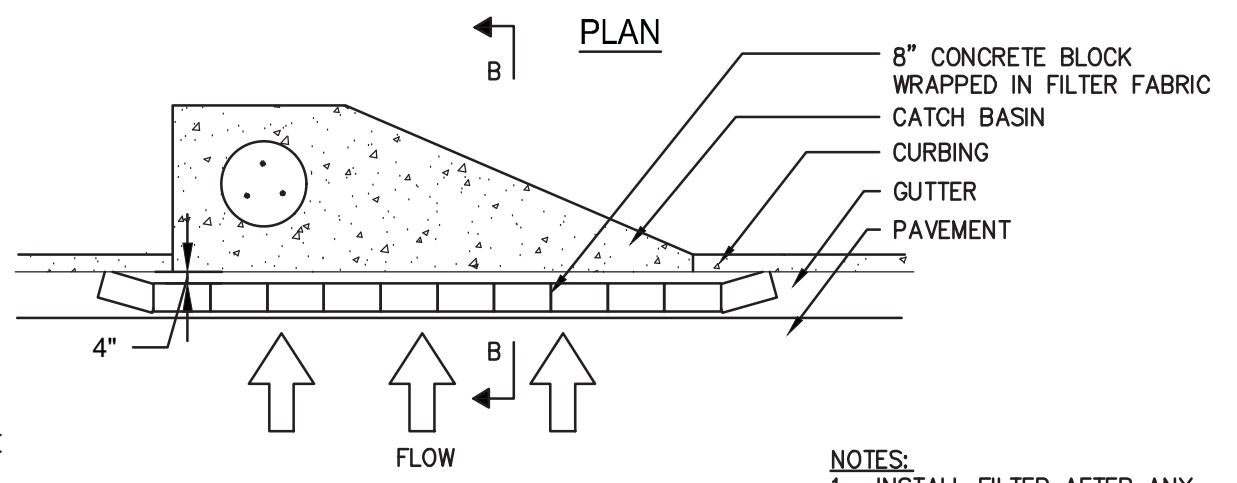
### VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON EXPOSED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cq	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

### STEEL FRAME AND SILT FENCE INSTALLATION



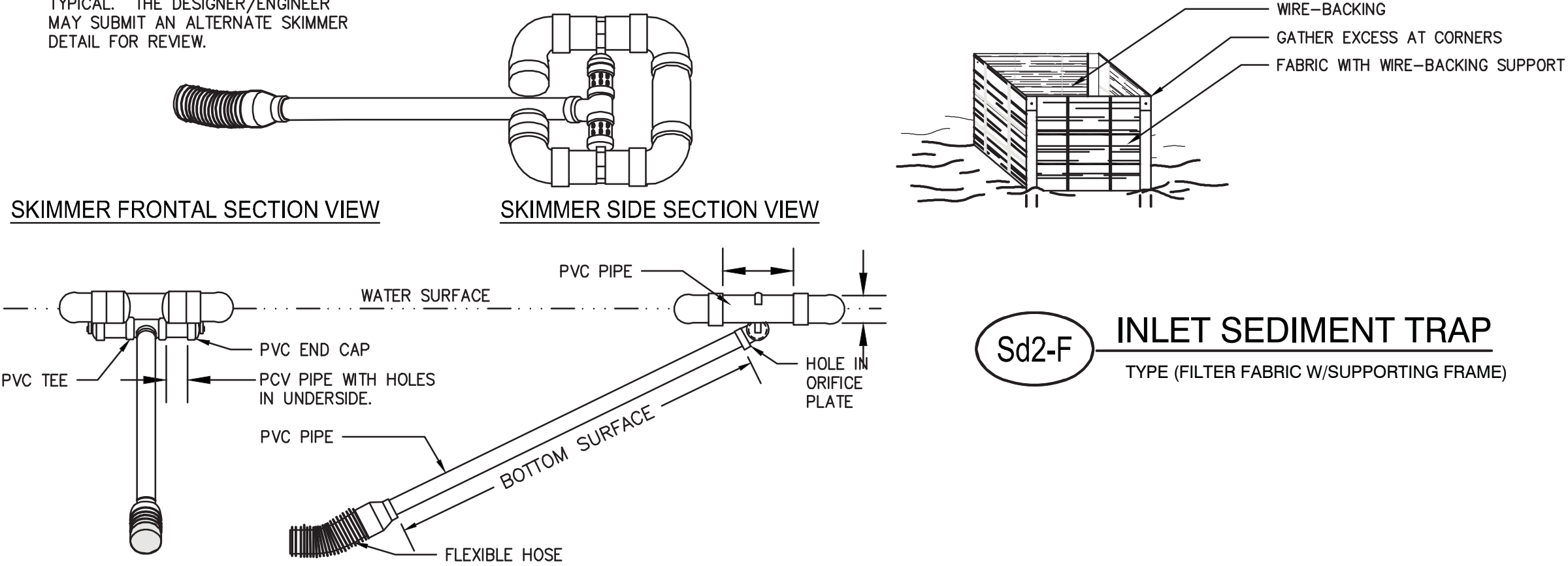
- NOTES:
- DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
  - THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
  - THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
  - THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.



- NOTES:
- INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
  - WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
  - FACE OPENINGS IN BLOCKS OUTWARD.
  - LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
  - INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

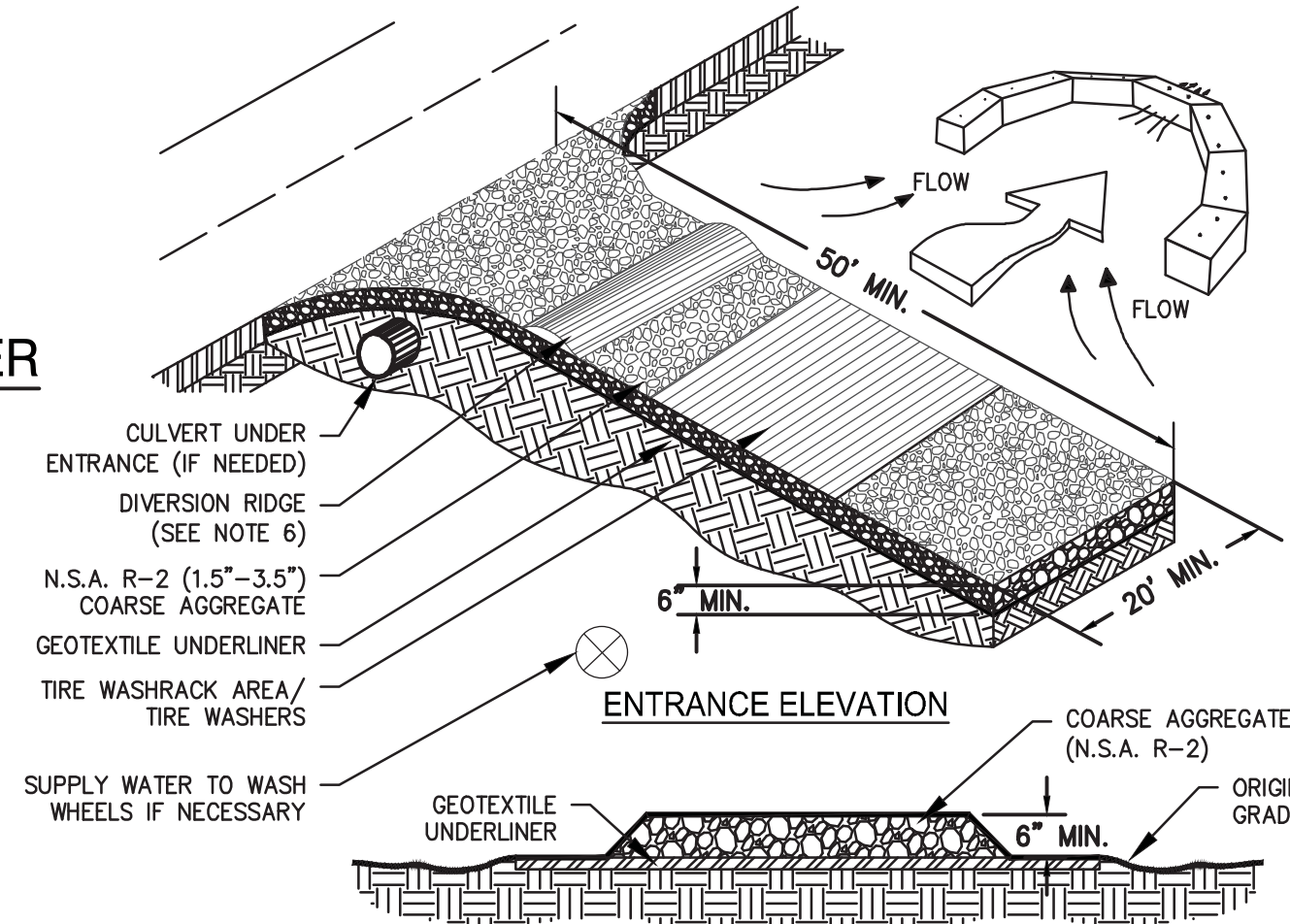
### SKIMMER PERSPECTIVE

NOTE: SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.



DRAIN TIME (HOURS)	SKIMMER DIM. (ORIFICE & HEAD SIZE) (ft)	MFG NAME**
72	4" SKIMMER, 3" ORIFICE DIAMETER	FAIRCLOTH

### Sk FLOATING SURFACE SKIMMER



- NOTES:
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

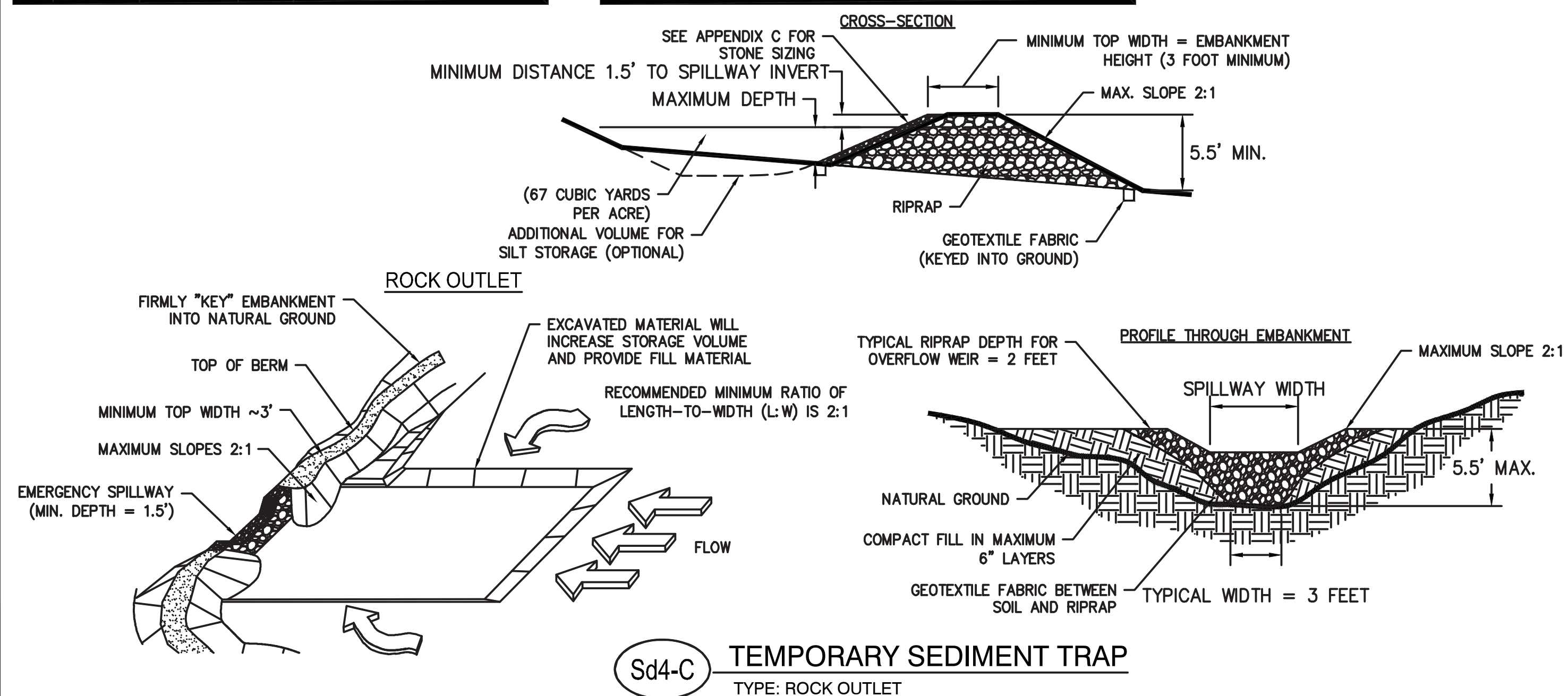
### Co CONSTRUCTION EXIT

### Sd1-S SEDIMENT BARRIER

TYPE (SENSITIVE)

### Sd4-C TEMPORARY SEDIMENT TRAP

TYPE: ROCK OUTLET



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PUBLIC SAFETY  
BUILDING

Land Lots 211 & 212, District 12  
City of Forest Park, GA 30094

EROSION CONTROL  
DETAILS (1)

SHEET TITLE

DATE	NO. DESCRIPTION	RELEASED FOR BID	CHECKED	TP
10/26/21				

10/26/21  
DATE

A21-006  
PPI PROJECT NO.

C5.6

FILE PATH: E:\PROJECTS\2021\1006-AR-FORREST PARK PUBLIC SAFETY BUILDING\DWG\21006\_C5.6\_EROSION DETAILS.DWG - MKK-BK0309A.MX; BLDG04  
PLOT DATE: 10/15/2021 1:55 PM



**CONSTRUCTION SPECIFICATIONS**

**SITE PREPARATION**

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERRAS, TERRACES AND SEDIMENT BARRIERS.
- LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

**MULCHING MATERIALS**

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

- DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.)
- POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

**APPLYING MULCH**

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF EXPOSED AREA.

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMY BY HAND OR BY MECHANICAL EQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

**ANCHORING MULCH**

- STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.

**Ds1** DISTURBED AREA STABILIZATION (W/ MULCHING ONLY)

**METHODS AND MATERIALS**

**A. TEMPORARY METHODS**

**MULCHES**

SEE STANDARD DS1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRACON SHOULD BE USED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

**VEGETATIVE COVER**

SEE STANDARD DS2-DISTURBED AREAS STABILIZATION (WITH TEMPORARY SEEDING).

**SPRAY-ON ADHESIVES**

FOR FINAL PERMANENT STABILIZATION, PERMANENT PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDATED AREAS.

**TILLAGE**

THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

**IRRIGATION**

THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

**BARRIERS**

SOLID BOARD FENCES, SNOWFENCES, BURIAL FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 FEET THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION. CALCULOUS BARRIERS APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RE-TREATMENT.

**B. PERMANENT METHODS**

**PERMANENT VEGETATION**

SEE STANDARD DS3-DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

**TOPSOILING**

THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD TB-TOPSOILING.

**STONE**

COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD.

**Du** DUST CONTROL ON DISTURBED AREAS

**DEFINITION**

THE ESTABLISHMENT OF TEMPORARY COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDATED AREAS.

**CONDITIONS**

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATION MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

**CONSTRUCTION SPECIFICATIONS**

**GRADING AND SHAPING**

EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HANDSEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

**SEEDBED PREPARATION**

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED WHEN USING CONVENTIONAL OR HANDSEEDING. SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCRAPPED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

**LIME AND FERTILIZER**

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED, ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (10 LBS/1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

**SEEDING**

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMY BY HAND, CYCLONE SEEDER DRILL, CULTRAPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTRAPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RANKE" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

**MULCHING**

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT-TERM PROTECTION. REFER TO DS1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

**IRRIGATION**

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE PER 1,000 S.F.	RATE PER ACRE*	PLANTING DATES**
RYE	3.9 lbs	3 bu.	9/1 - 3/1
RYEGRASS	0.9 lbs	40 lbs	8/15 - 4/1
ANNUAL LESPEDEZA	0.9 lbs	40 lbs	1/15 - 3/15
WEEPING LOVE GRASS	0.1 lbs	4 lbs	2/15 - 6/15
SUDANGRASS	1.4 lbs	60 lbs	3/1 - 8/1
BROWNTOP MILLET	0.9 lbs	40 lbs	4/1 - 7/15
WHEAT	4.1 lbs	3 bu.	9/15 - 2/1

**Ds2** DISTURBED AREA STABILIZATION (WITH TEMPORARY VEGETATION)

**DEFINITION**

THE ESTABLISHMENT OF TEMPORARY COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDATED AREAS.

**CONDITIONS**

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATION MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL PERMANENT VEGETATION IS ESTABLISHED.

**CONSTRUCTION SPECIFICATIONS**

**GRADING AND SHAPING**

EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HANDSEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

**SEEDBED PREPARATION**

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED WHEN USING CONVENTIONAL OR HANDSEEDING. SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCRAPPED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

**LIME AND FERTILIZER**

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED, ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (10 LBS/1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

**SEEDING**

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMY BY HAND, CYCLONE SEEDER DRILL, CULTRAPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTRAPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RANKE" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

**MULCHING**

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT-TERM PROTECTION. REFER TO DS1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

**IRRIGATION**

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

TABLE 6-6.1. FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

FERTILIZER TYPE	FERTILIZER RATE (LBS/ACRE)	FERTILIZER RATE (LBS/ACRE)	SEASON
10-10-10	1000	0.025	FALL

**SOD MAINTENANCE AND INSTALLATION**

**SOD LAYOUT AND PREPARATION**

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

**APPEARANCE OF GOOD SOD**

SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

HATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

**DIRECTIONS FOR INITIAL MAINTENANCE**

- ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.
- MOW WHEN THE SOD IS ESTABLISHED --- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

**TABLE 6-6.2. SOD PLANTING REQUIREMENTS**

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
BERMUDAGRASS	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Maintenance	10-10-10	400 lbs./ac.	30
BAHAGRASS	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Maintenance	0-10-10	100 lbs./ac.	
3. Warm season grasses	First	6-12-12	400 lbs./ac.	50-100 lbs./ac. 2/6/
	Maintenance	10-10-10	800 lbs./ac.	50-100 lbs./ac. 2/
4. Warm season grasses and legumes	First	6-12-12	400 lbs./ac.	30 lbs./ac.
	Maintenance	0-10-10	1000 lbs./ac.	50-100 lbs./ac. /6/

**TABLE 6-6.3. FERTILIZER REQUIREMENTS FOR SOD**

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Maintenance	10-10-10	400 lbs./ac.	30
Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Maintenance	10-10-10	800 lbs./ac.	50-100 lbs./ac. 2/

**Ds4** DISTURBED AREA STABILIZATION (WITH SODDING)

**Ds3** DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

**DEFINITION**

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS WITH PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

**CONDITIONS**

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDATED AREAS.

**GRADING AND SHAPING**

GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.

WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE GRADING AND SHAPING WHEN FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET.

WHEN FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTRAPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTRAPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

INDIVIDUAL PLANTS

SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL ALLOW CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE, WHERE INDIVIDUAL HOLES ARE DUG. FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE. TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

**FERTILIZER REQUIREMENTS**

TYPES OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and second legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Maintenance	0-10-10	100 lbs./ac.	
3. Warm season grasses	First	6-12-12	400 lbs./ac.	50-100 lbs./ac. 2/6/
	Maintenance	10-10-10	800 lbs./ac.	50-100 lbs./ac. 2/
4. Warm season grasses and legumes	First	6-12-12	400 lbs./ac.	30 lbs./ac.
	Maintenance	0-10-10	1000 lbs./ac.	50-100 lbs./ac. /6/

**MULCHING**

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

- DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3:1 OR STEEPER.
- SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
- BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

**APPLYING MULCH**

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT. OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMY WITH HYDRAULIC SEEDING EQUIPMENT.

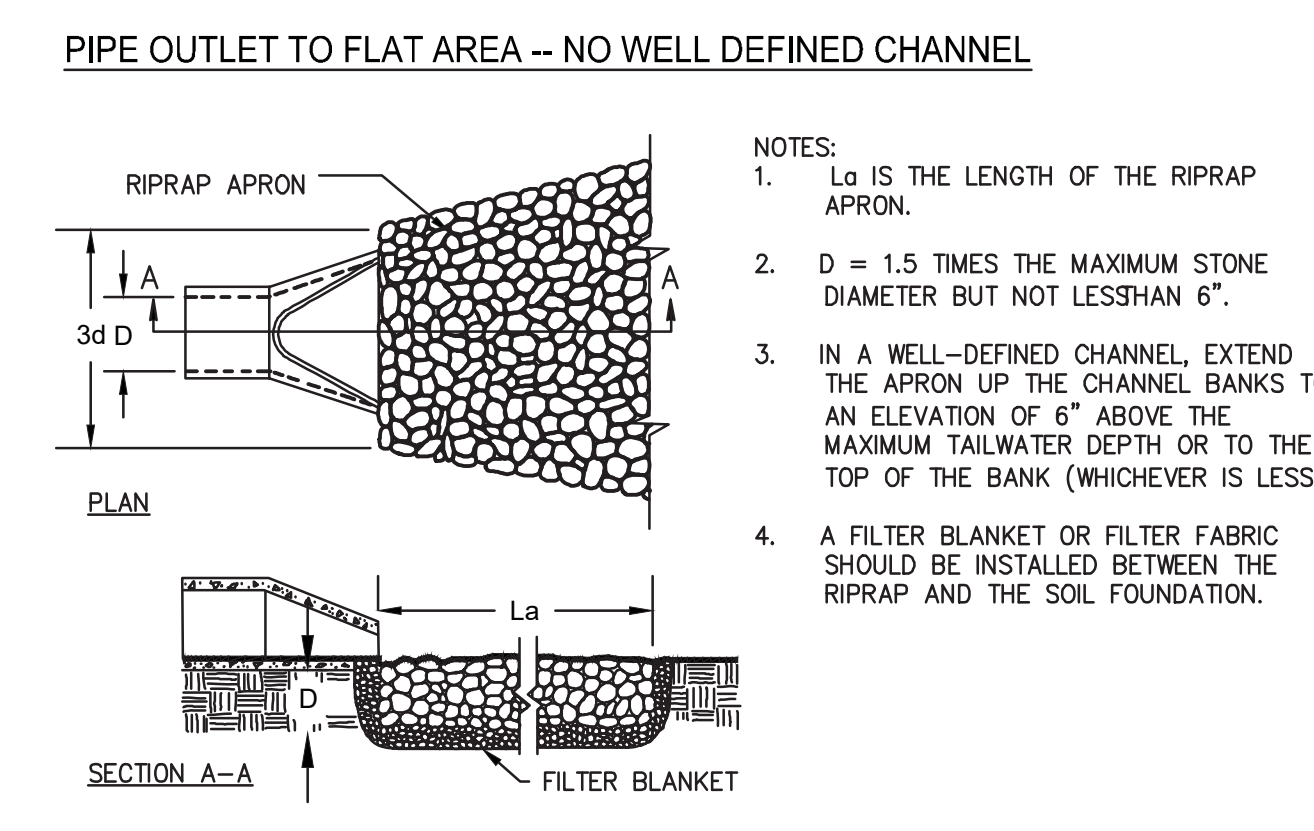
**ANCHORING MULCH**

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

- EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.

**SEEDING RATES FOR PERMANENT SEEDING**

SPECIES	RATE PER 1,000 S.F.	RATE PER ACRE*	PLANTING DATES**
BAHIA	1.4 lbs	60 lbs	1/1 - 12/31
BERMUDA	0.2 lbs	10 lbs	2/15 - 7/1
CENTPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1 - 7/1
LESPEDEZA	1.7 lbs	75 lbs	1/1 - 12/31
WEEPING LOVE GRASS	0.1 lbs	4 lbs	2/1 - 6/15
SWITCH GRASS	0.9 lbs	4 lbs	3/15 - 6/1



Velocity Dissipation Summary (25 year storm)

Headwall ID	Pipe Diameter (D <sub>c</sub> )	Pipe Discharge (cfs)	Pipe Velocity (fps)	Rip-Rap Size d <sub>50</sub>	Width of Apron W <sub>a=3D<sub>c</sub></sub>	Apron Length (La)	Width of Apron W <sub>a=D<sub>c</sub></sub>	Filter Bedding Stone	Graded Rip Rap Stone
POND INLET	30"	13.65	7.51	0.5	7.0 FT	11 FT	10 FT	FS-2	GDOT TYPE I

St STORM DRAIN OUTLET PROTECTION

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**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**

Land Lots 211 & 212, District 12  
City of Forest Park, GA 30294

EROSION CONTROL DETAILS (2)

SHEET TITLE

DESIGN MB MB TP

CHECKED MB TP

RELEASE

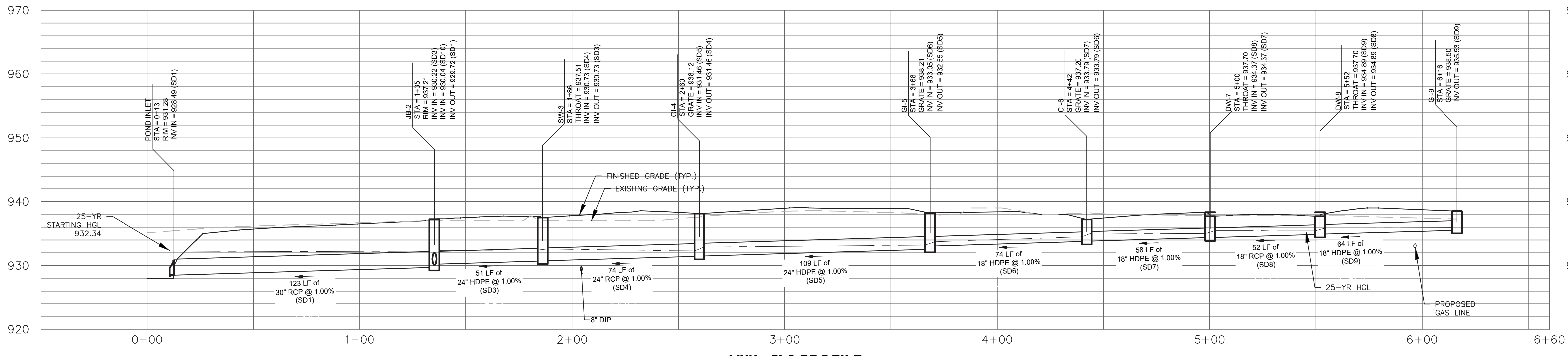
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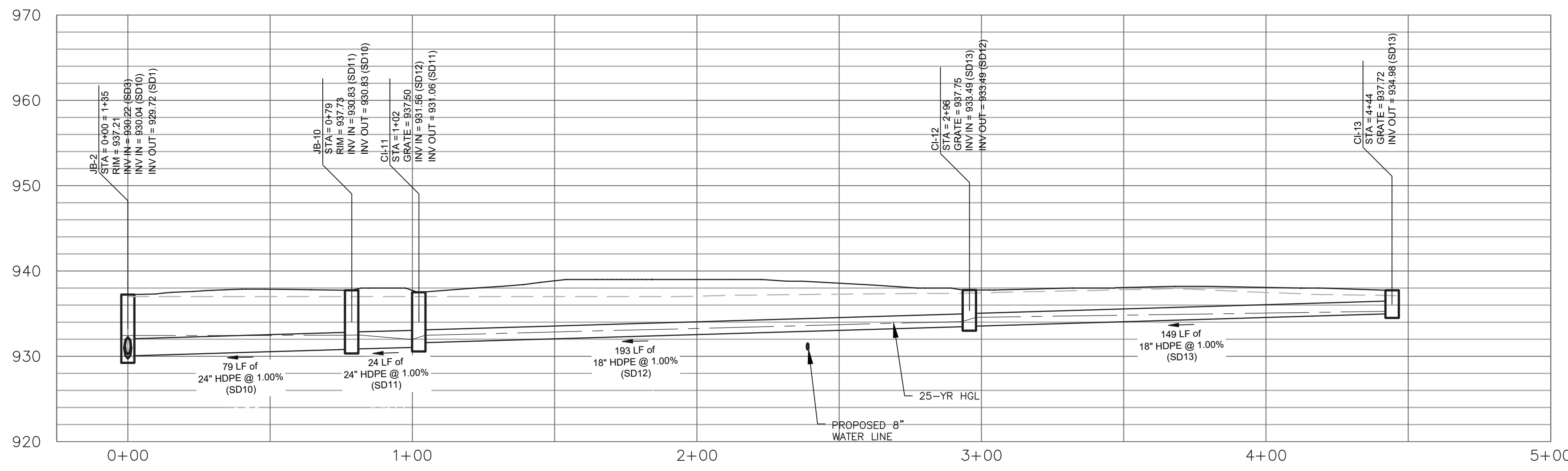
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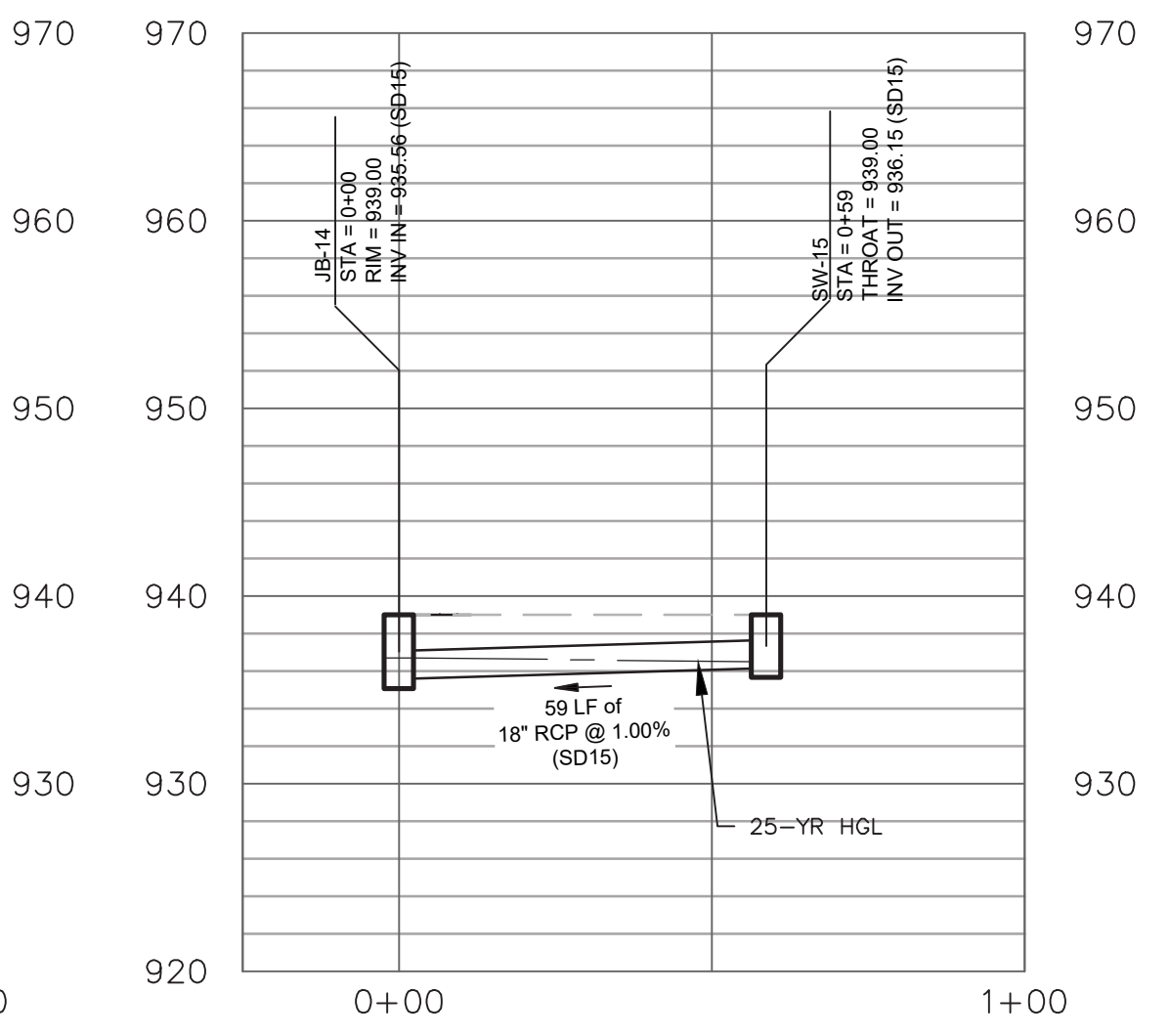
**C5.7**



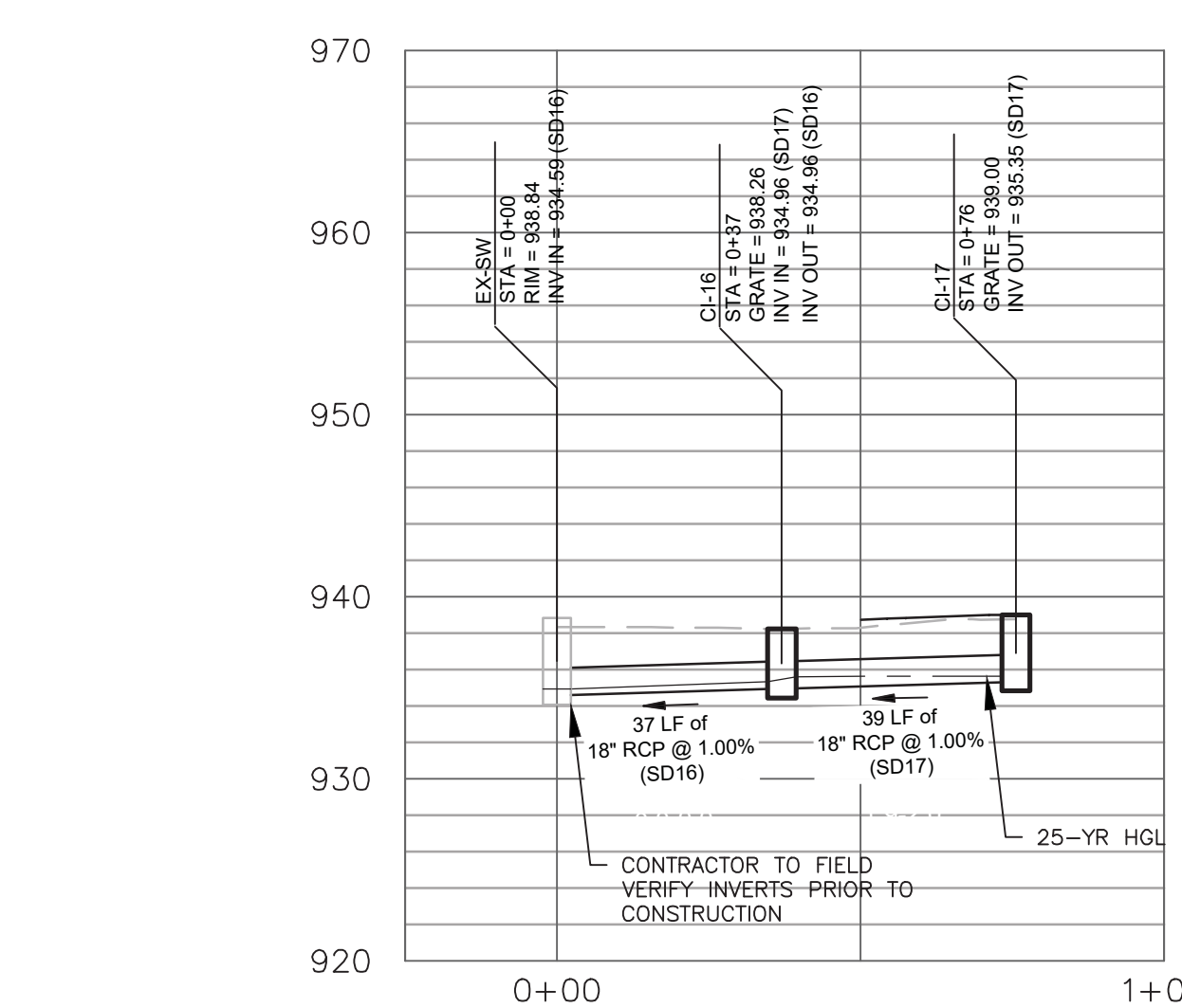
**HW - CI-9 PROFILE**  
SCALE: 1"=30' HOR; 1"=10' VERT



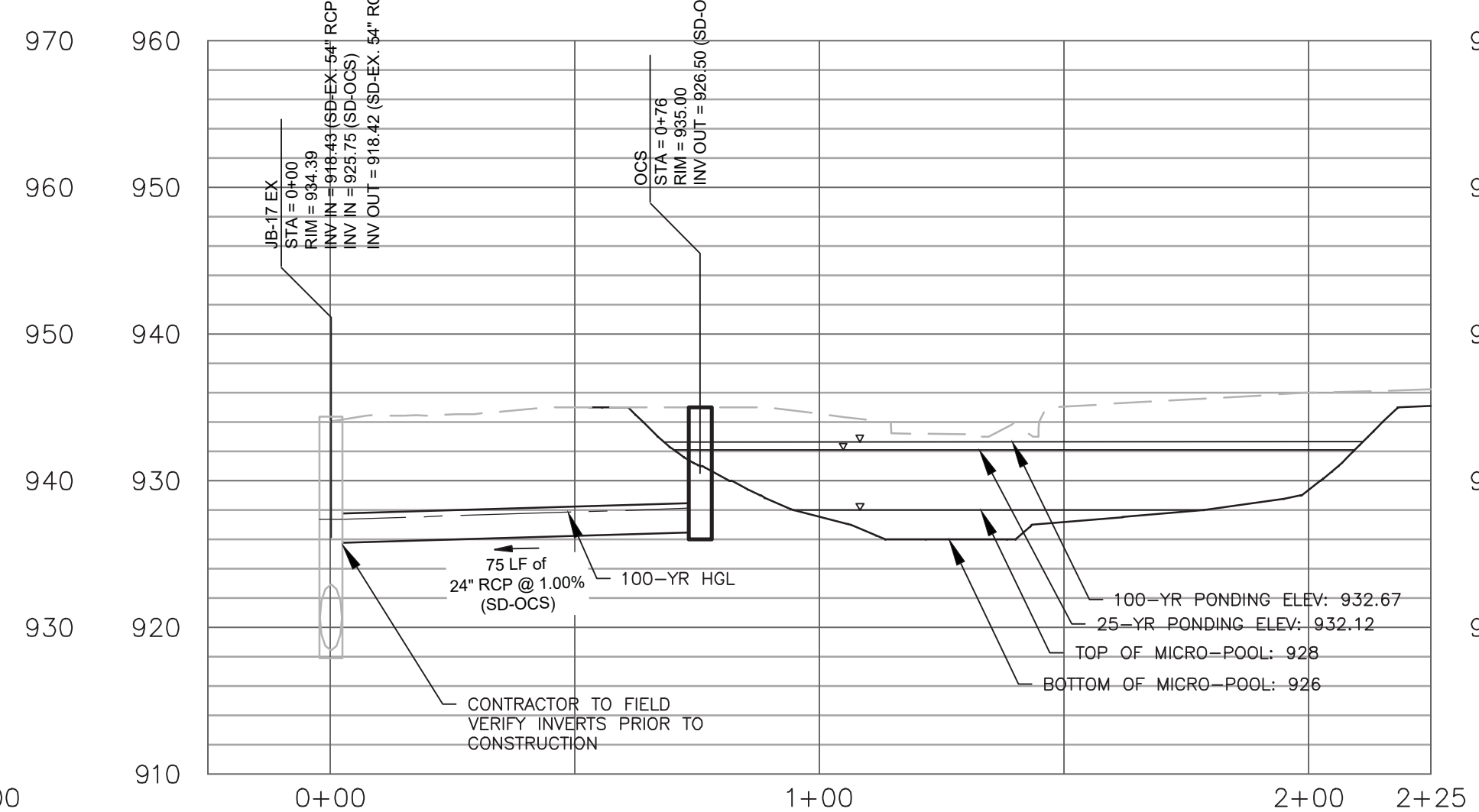
**JB-2 - CI-12 PROFILE**  
SCALE: 1"=30' HOR; 1"=10' VERT



**JB-13 - SW-14 PROFILE**  
SCALE: 1"=30' HOR; 1"=10' VERT



**EX-SW - CI-16 PROFILE**  
SCALE: 1"=30' HOR; 1"=10' VERT



**OCS PROFILE**  
SCALE: 1"=30' HOR; 1"=10' VERT

**STORM STRUCTURE LEGEND:**

- CI: CURB INLET (GDOT 1019AP TYPE 'E')
- GR: GRATE INLET (GDOT 1019AP TYPE 'A')
- SW: SINGLE WING CATCH BASIN (GDOT 10330P)
- DW: DOUBLE WING CATCH BASIN (GDOT 10340P)
- HW: OUTLET HEADWALL (GDOT 1125)
- JB: JUNCTION BOX (GDOT 1011AP)

**STORM PIPE NOTES:**

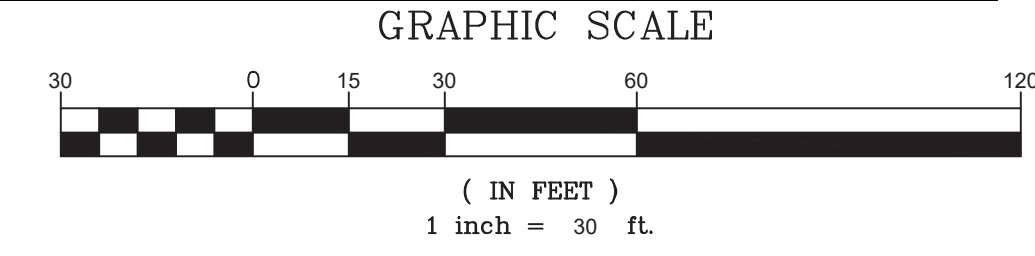
1. HDPE PIPE, WHERE APPLICABLE, SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO MP7. TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET, WHICH CONFORMS TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
2. ALL ALUMINUM-COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, WHERE APPLICABLE, WHICH WILL CARRY A LIVE STREAM, SHALL HAVE PAVED INVERTS IN ACCORDANCE WITH AASHTO M-190, TYPE C, EXCEPT THAT THE PIPE NEED NOT BE FULLY COATED. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
3. ALL RCP PIPE JOINTS, IF APPLICABLE, SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE MANUFACTURED IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
4. ALL CMP SHALL BE ALUMINIZED TYPE 2 STEEL, 14GA MIN. AND SHALL MEET ASTM 1760, A929, AASHTO M36, M274.
5. ALL STORM SEWER PIPES AND CULVERTS SHALL BE INSTALLED PER LOCAL STANDARDS AND REGULATIONS.
6. ALL PIPES AND CULVERTS TO BE BEDDED PER LOCAL STANDARDS.
7. COMPACTION TESTING SHALL BE COMPLETED BY AN APPROVED INDEPENDENT GEOTECHNICAL FIRM AT THE OWNER'S EXPENSE. THE CONTRACTOR MUST MAINTAIN A GEOTECHNICAL ENGINEER ON-SITE DURING ALL STORM SEWER PIPE INSTALLATION TO ENSURE PROPER COMPACTION AND BACKFILL.
8. THE FREQUENCY OF TESTING SHALL BE MINIMUM OF ONE TEST PER 500 CUBIC YARDS OF MATERIAL PLACED, OR ONE TEST PER SECTION OF PIPE FROM STRUCTURE TO STRUCTURE.
9. EACH COMPACTION TEST WILL INCLUDE TESTING OF EACH 8-INCH LIFT TO FINAL GRADE.
10. ALL STORMWATER STRUCTURES LOCATED IN THE PUBLIC RIGHT-OF-WAY MUST BE ON THE GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST

**25-YR STORM CHART**

LineNo.	LineID	LineSize	LineLength	LineSlope	DrainageArea	C2	Tc	iSys	FlowRate	TotalRunoff	VelAve	CapacityFull	n-valuePipe	InletID	Material
		(in)	(ft)	(%)	(ac)	(C)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(cfs)			
1	1	30	122.54	1.00%	0.00	0.00	8.80	13.65	13.65	7.51	41.06	0.013	JB-2	RCP	
2	3	24	51.04	1.00%	0.16	0.85	5.00	8.91	9.08	9.08	7.22	24.53	0.012	SW-3	HDPE
3	4	24	73.67	1.00%	0.30	0.85	5.00	8.98	7.93	7.93	6.57	22.64	0.013	GI-4	RCP
4	5	24	108.57	1.00%	0.10	0.85	5.00	9.09	5.68	5.68	6.35	24.53	0.013	GI-5	RCP
5	6	18	73.73	1.00%	0.13	0.85	5.00	9.16	4.95	4.95	6.21	11.39	0.012	CI-6	HDPE
6	7	18	58.16	1.00%	0.12	0.85	5.00	9.22	3.95	3.95	5.86	11.39	0.012	DW-7	HDPE
7	8	18	51.66	1.00%	0.16	0.85	5.00	9.28	3.02	3.02	5.44	11.39	0.013	DW-8	RCP
8	9	18	64.45	1.00%	0.22	0.85	5.00	9.37	1.77	1.77	4.68	11.39	0.012	GI-9	HDPE
9	10	24	78.66	1.00%	0.00	0.00	8.88	4.72	4.72	6.03	24.53	0.012	JB-10	HDPE	
10	11	24	23.60	1.00%	0.18	0.85	5.00	8.91	4.73	4.73	6.03	24.53	0.012	CI-11	HDPE
11	12	18	193.23	1.00%	0.33	0.85	5.00	9.13	3.44	3.44	5.64	11.39	0.012	CI-12	HDPE
12	13	18	148.54	1.00%	0.11	0.85	5.00	9.37	0.88	0.88	3.82	11.39	0.012	CI-13	HDPE
13	15	18	58.69	1.00%	0.10	0.95	5.00	9.37	0.90	0.90	3.63	10.51	0.013	SW-15	RCP
14	16	18	37.04	1.00%	0.06	0.95	5.00	9.31	1.52	1.52	4.48	11.39	0.013	CI-16	RCP
15	17	18	38.55	1.00%	0.11	0.95	5.00	9.37	0.99	0.99	3.95	11.39	0.013	CI-17	RCP
16	OCS	24	40.29	1.00%	--	--	--	--	--	14.95	7.65	24.32	0.013	OCS	RCP

**10-YR STORM CHART**

LineNo.	InletID	DrainageArea	InletTime	Inlet	Runoff(Coeff)	QCaptured	CurLength	GutterSlope	GutterWidth	CrossSlope, Sw	CrossSlope, Sx	Inlet Type	GutterDepth	GutterSpread
		(ac)	(min)	(in/hr)	(C)	(cfs)	(ft)	(ft/ft)	(ft)	(ft/ft)	(ft/ft)		(ft)	(ft)
1	CI-11	0.18	5	7.96	0.85	1.228	2.6	-100.00%	1.60	5.00%	2.00%	Combination	0.08	1.91
2	CI-12	0.33	5	7.96	0.85	2.251	2.6	-100.00%	1.60	5.00%	2.00%	Combination	0.16	5.04
3	SW-3	0.16	5	7.96	0.85	1.092	12.167	2.00%	---	5.00%	2.00%	Curb inlet	0.16	5.18
4	GI-4	0.30	5	7.96	0.85	2.047	---	-100.00%	1.60	5.00%	2.00%	Grate inlet	0.13	3.53
5	CI-13	0.11	5	7.96	0.85	0.75	2.6	-100.00%	1.60	5.00%	2.00%	Combination	0.03	1.60
6	CI-6	0.13	5	7.96	0.85	0.887	2.6	-100.00%	1.60	5.00%	2.00%	Combination	0.03	1.60
7	DW-7	0.12	5	7.96	0.85	0.819	2.6	-100.00%	---	5.00%	2.00%	Curb inlet	0.21	7.44
8	DW-8	0.16	5	7.96	0.85	1.092	2.6	-100.00%	---	5.00%	2.00%	Curb inlet	0.24	9.01
9	CI-9	0.22	5	7.96	0.85	1.501	2.6	-100.00%	1.60	5.00%	2.00%	Combination	0.11	2.60
10	GI-5	0.10	5	7.96	0.85	0.682	---	-100.00%	1.60	5.00%	2.00%	Grate inlet	0.02	1.32
11	SW-15	0.10	5	7.96	0.95	0.763	12	2.00%	---	5.00%	2.00%	Curb inlet	0.15	4.28
12	CI-16	0.06	5	7.96	0.95	0.458	12	2.00%	2.00	5.00%	2.00%	Combination	0.12	3.12
13	CI-17	0.11	5	7.96	0.95	0.839	12	2.00%	2.00	5.00%	2.00%	Combination	0.15	4.51



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**FOREST PARK GILLEM**  
**PUBLIC SAFETY**  
**BUILDING**

Land Lots 211 & 212, District 12  
City of Forest Park, GA 30294

**STORM SEWER PROFILES**

DATE	NO.	DESCRIPTION	RELEASED FOR BID
10/26/21		RELEASED FOR BID	

**SHEET TITLE**

DESIGN	MB	CHECKED	TP
MB			

**RELEASE**

DATE: 10/26/21

DATE: A21-006

PPI PROJECT NO.

**C6.1**

FILE PATH: E:\PROJECTS\2021\1006\AR\FOREST PARK PUBLIC SAFETY BUILDING\DWG\21006\_C3\_L GRADING AND DRAINAGE PLANNING - MAX BLOOM

PLOT DATE: 10/20/21 1:55 PM

**GEORGIA811**  
Utilities Protection Center, Inc.

Know what's below.  
Call before you dig.

FILE PATH: E:\PROJECTS\2021\1006-AR-Forest Park Public Safety Building\DWG\21006\_C4\_L Utility Plan DWG - MAX BLOOM  
 PLOT DATE: 10/26/21 1:56 PM

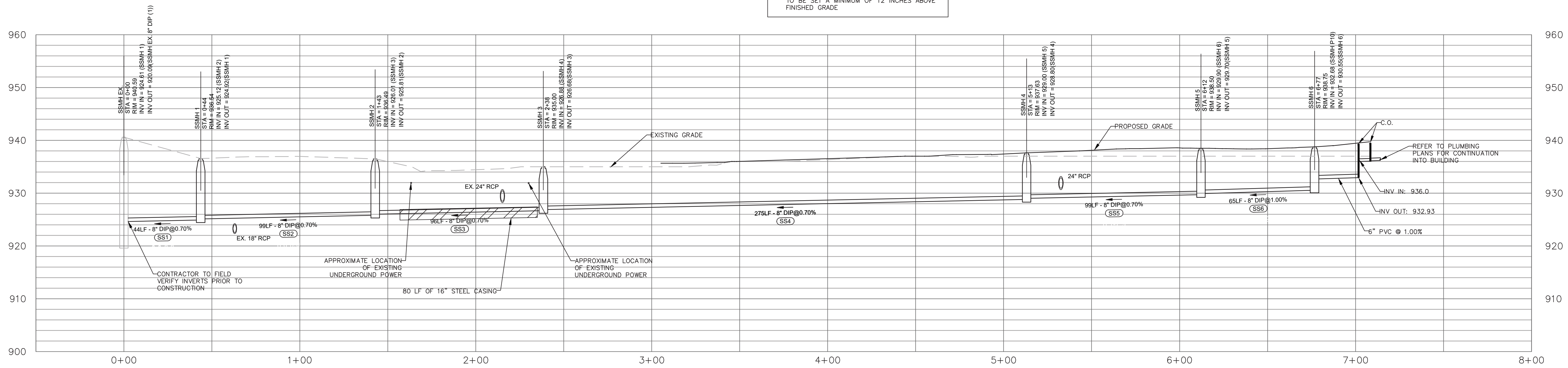


Know what's below.  
 Call before you dig.

**UTILITY NOTE**

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION.

**NOTE TO CONTRACTOR:**  
 1. MANHOLE COVERS IN PAVED AREAS ARE TO BE SET FLUSH WITH FINISHED PAVEMENT  
 2. MANHOLE COVERS IN NON-PAVED AREAS ARE TO BE SET A MINIMUM OF 12 INCHES ABOVE FINISHED GRADE



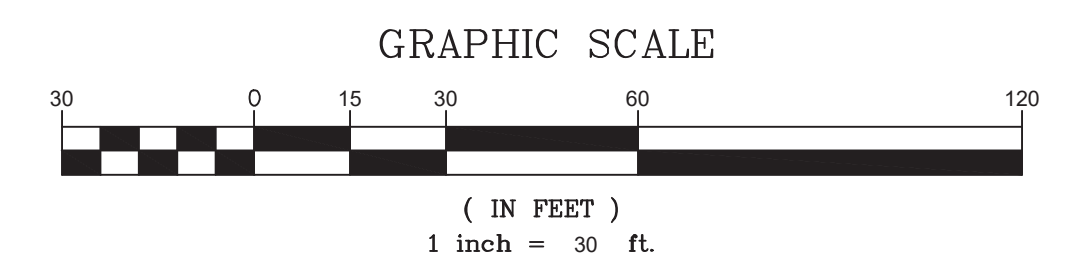
**SANITARY SEWER PROFILE**  
 SCALE: 1"=30' HOR; 1"=10' VERT

**SANITARY SEWER NOTES:**

- USE OF PRE-CAST INVERT MANHOLES IS ACCEPTABLE PROVIDED INVERTS ARE NOT MODIFIED.
- ALL NEW PIPE TIE-INS REQUIRE NEW INVERTS IN MANHOLES.
- BORE WITHIN THE VICINITY OF THE MANHOLE AND CORE FROM THE INSIDE OF THE MANHOLE IN THE PRESENCE OF AN INSPECTOR.
- EXISTING PIPE CAN ONLY BE CUT IN THE PRESENCE OF A COUNTY INSPECTOR. CUT-IN MANHOLE REQUIRED UNLESS "DOGHOUSE MANHOLE" SPECIFICALLY APPROVED BY CLAYTON COUNTY PRIOR TO CONSTRUCTION.
- IN THE FIRST NEWLY INSTALLED MANHOLE UPSTREAM OF THE EXISTING TIE-IN MANHOLE, CONTRACTOR SHALL INSTALL TEMPORARY MECHANICAL PLUGS ON THE INFLOW AND OUTFLOW INVERTS.
- THE DESIGNER AND DEVELOPER ACKNOWLEDGE THAT ALL WORK REPRESENTED IN THESE CONSTRUCTION DOCUMENTS HAS BEEN DESIGNED TO FULLY COMPLY WITH THE CURRENT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS. ACTUAL FIELD CONDITIONS COULD DICTATE MORE STRINGENT REQUIREMENTS, IF DEEMED NECESSARY BY THE COUNTY INSPECTOR. IN CASE OF CONFLICT BETWEEN THE PERMITTED DOCUMENTS AND THE CURRENT COUNTY WATER MAIN AND SANITARY SEWER DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE COUNTY SPECIFICATIONS SHALL GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES.
- OWNER SHALL MAINTAIN PLUGS IN DUMPSTER DRAINS AT ALL TIMES SO AS TO PROHIBIT LIQUID DRAINAGE FROM DUMPSTER. (POLICY)
- MAINTAIN 10' SEPARATION BETWEEN WATER AND SEWER LINES.
- EXTERIOR GREASE TRAPS WILL BE REQUIRED FOR ALL RESTAURANTS.
- NO TREES OR PERMANENT STRUCTURES ALLOWED IN SANITARY SEWER EASEMENTS.
- ALL UTILITIES TO BE INSPECTED BY DEPARTMENT OF WATER RESOURCES.
- DETECTION TAPE SHALL BE INSTALLED ABOVE ALL NON-FERROUS PIPE HAVING A BURY DEPTH OF SIX (6) FEET OR MORE. METAL DETECTION TAPE OR FERROUS WIRE SHALL BE INSTALLED TWO (2) FEET BELOW FINISHED GRADE SUCH THAT SEWER AND/OR LATERAL CAN BE DETECTED AFTER BURIAL.

**ENGINEER**  
 PRECISION PLANNING, INC.  
 400 PIKE BOULEVARD  
 LAWRENCEVILLE, GA 30046  
 CONTACT: MAX BLOOM  
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 EMAIL: 847MB@PPLUS

**OWNER / DEVELOPER**  
 CITY OF FOREST PARK  
 745 FOREST PARKWAY  
 FOREST PARK, GA 30297  
 CONTACT: JAMES SHELBY  
 PHONE: 404-201-1099  
 EMAIL: JSHELBY@FORESTPARKGA.GOV



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**FOREST PARK GILLEM PUBLIC SAFETY BUILDING**  
 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

SANITARY SEWER PROFILE		SHEET TITLE	
DESIGN	MB	DRAWN	MB
CHECKED	TP		

DATE	NO.	DESCRIPTION
10/26/21		RELEASED FOR BID

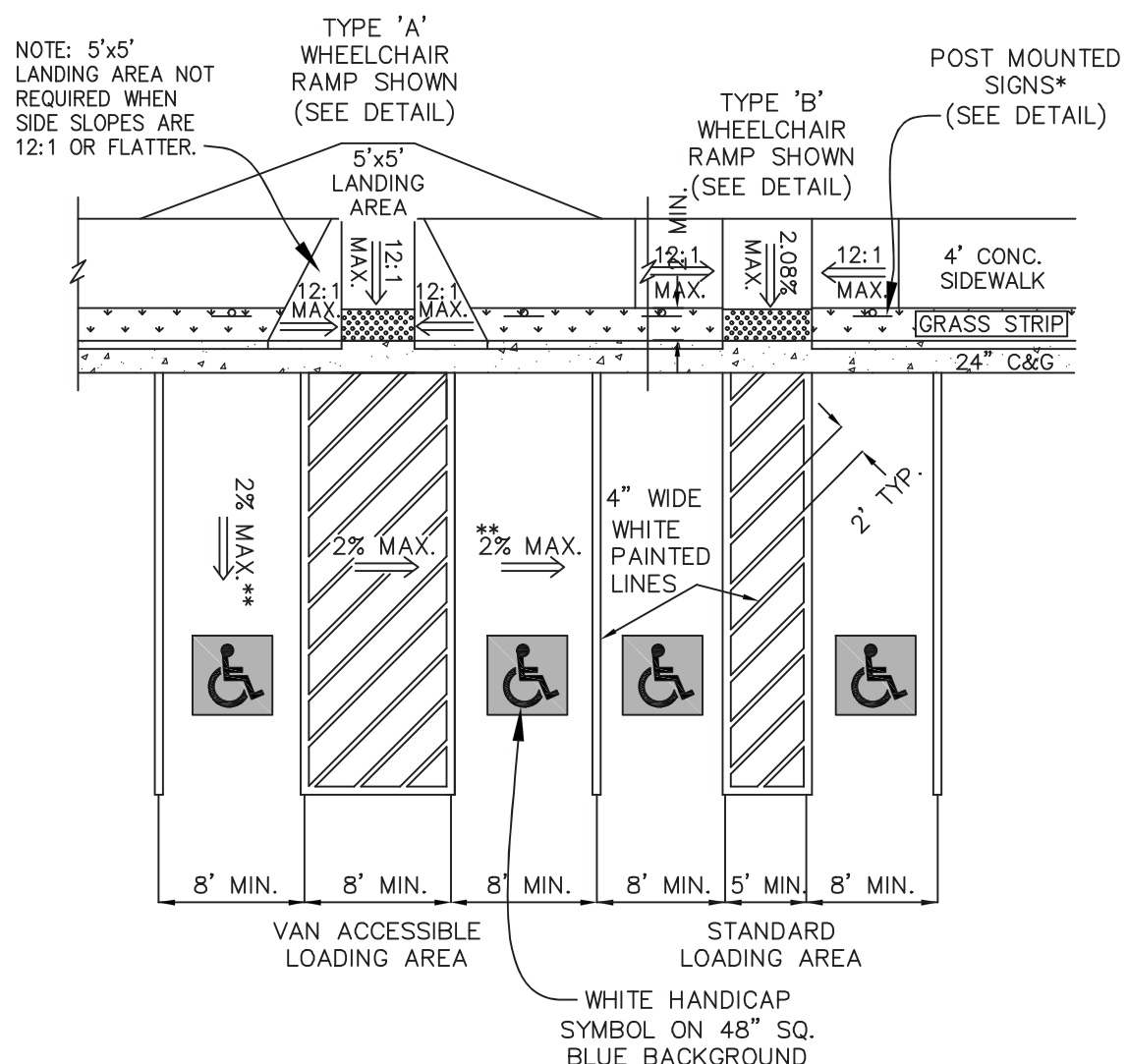
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 DATE

A21-006  
 PPI PROJECT NO.

**C6.2**

STAMP

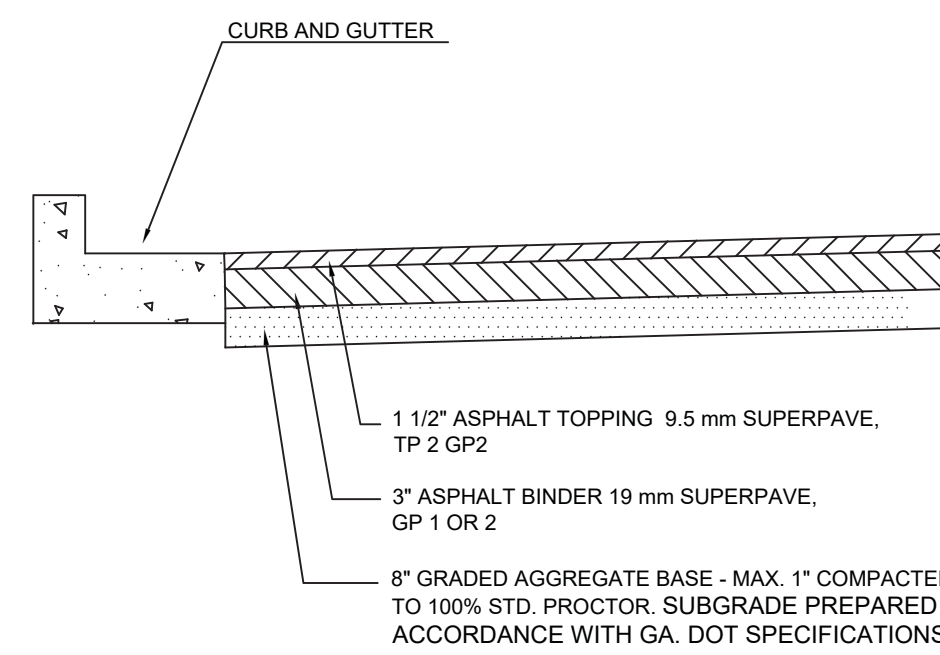
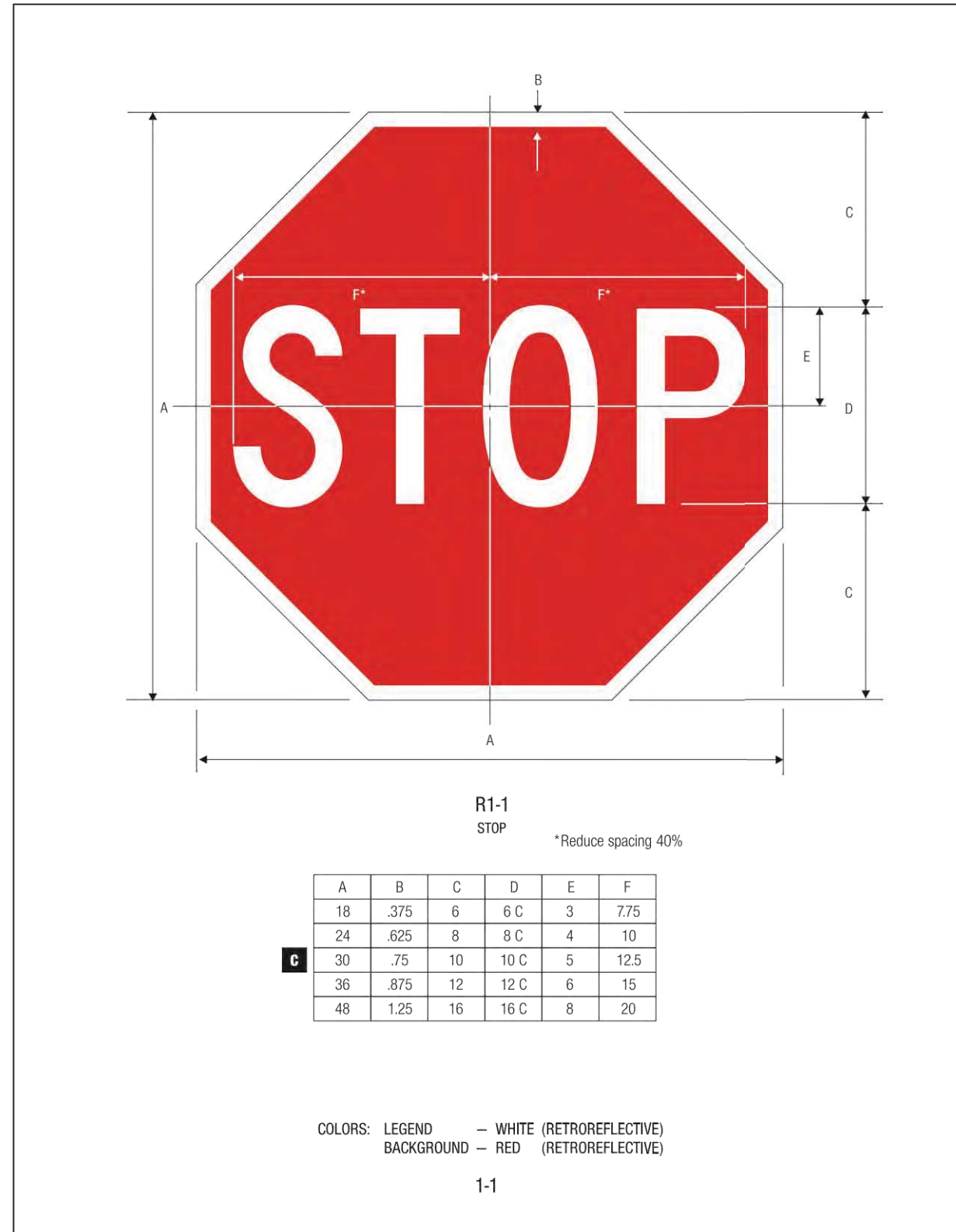
**\*NOTE:**  
WHERE TURNDOWN SIDEWALK FORMS A CURB, SIGNS SHALL BE PLACED BEHIND SIDEWALK. WHERE A GRASSED STRIP IS PROVIDED BETWEEN CURB AND SIDEWALK, SIGN SHALL BE PLACED BEHIND CURB AS SHOWN.



**\*\*NOTE:**  
NO PORTION OF THE HANDICAP SPACE OR LOADING AREA MAY EXCEED A 2% SLOPE.

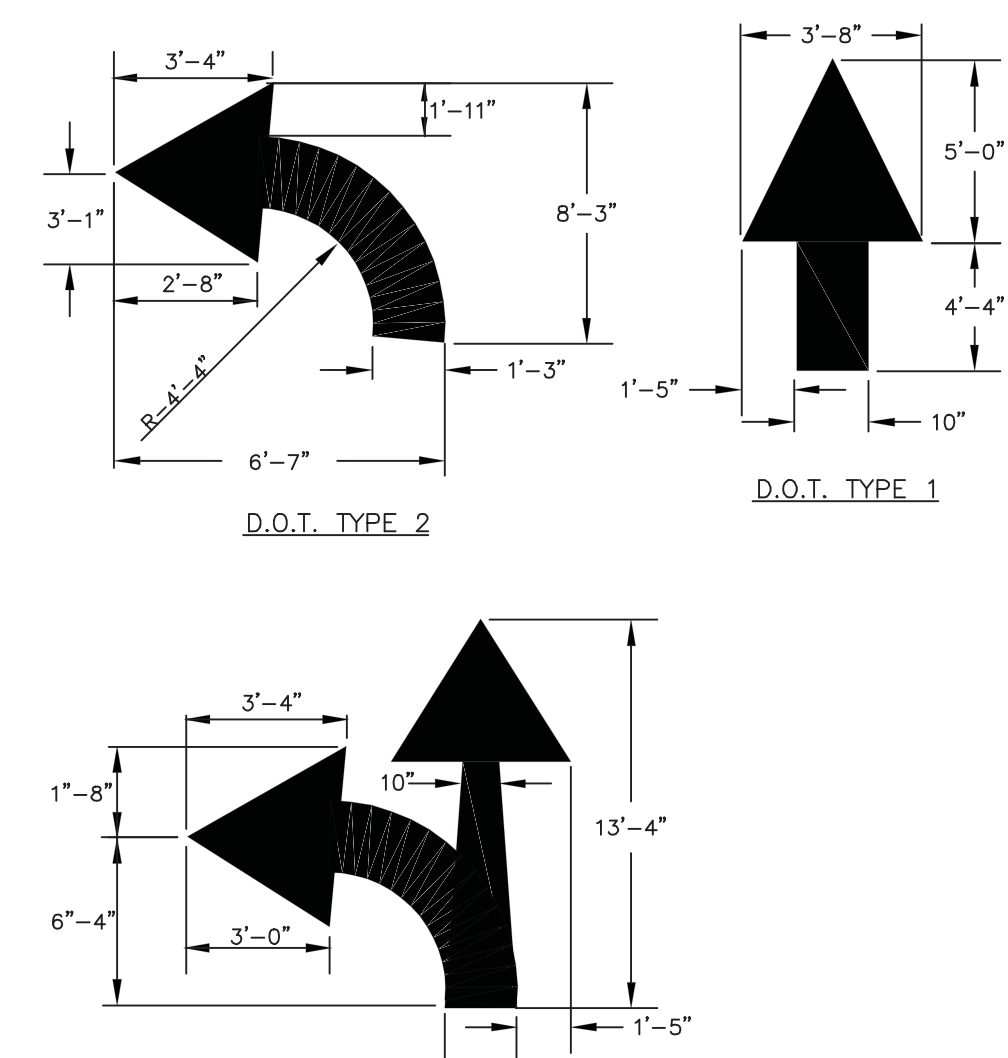
SEE SITE PLAN FOR SPECIFIC RAMP LOCATIONS AND PARKING SPACE LAYOUT.

### ACCESSIBLE PARKING SPACE DETAILS

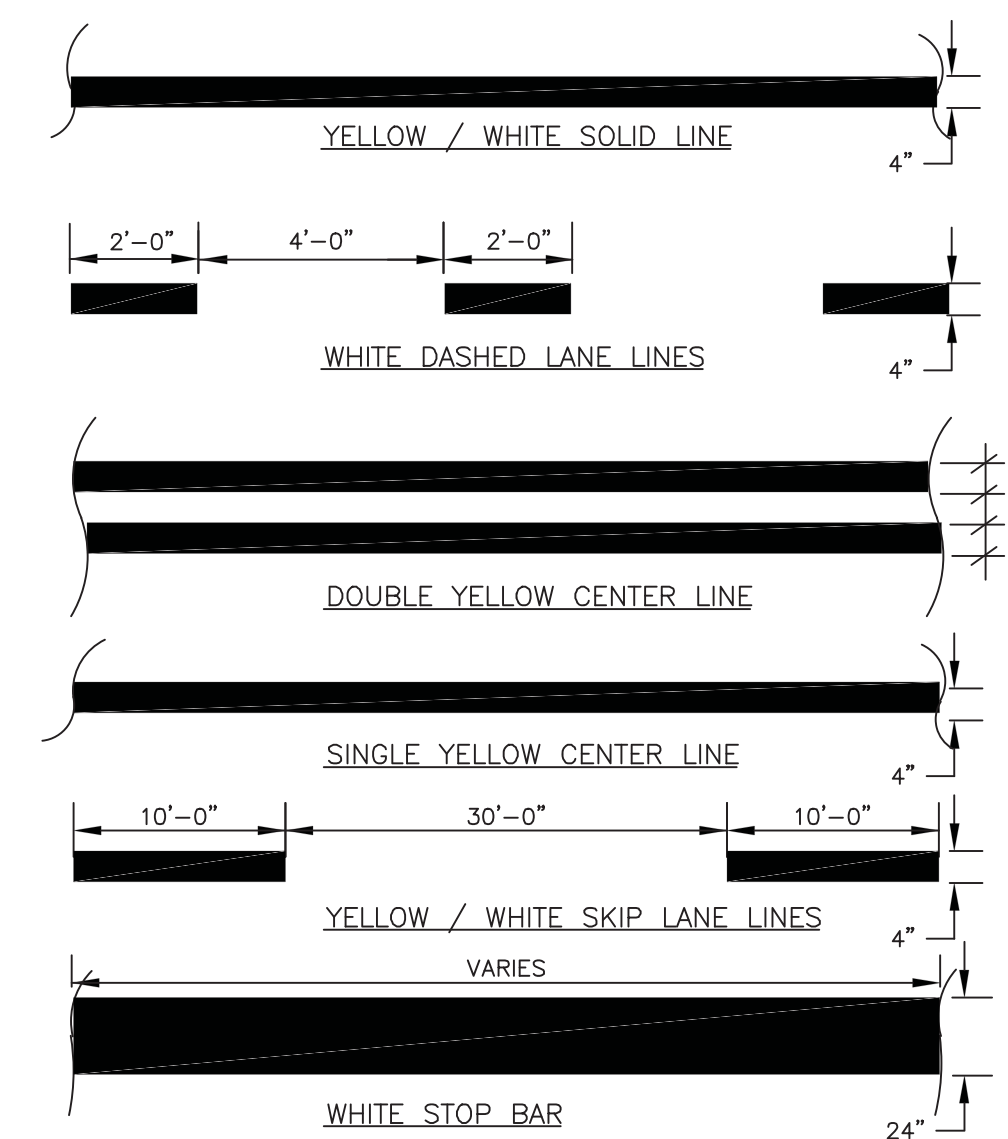


### MEDIUM DUTY ASPHALT PAVEMENT N.T.S.

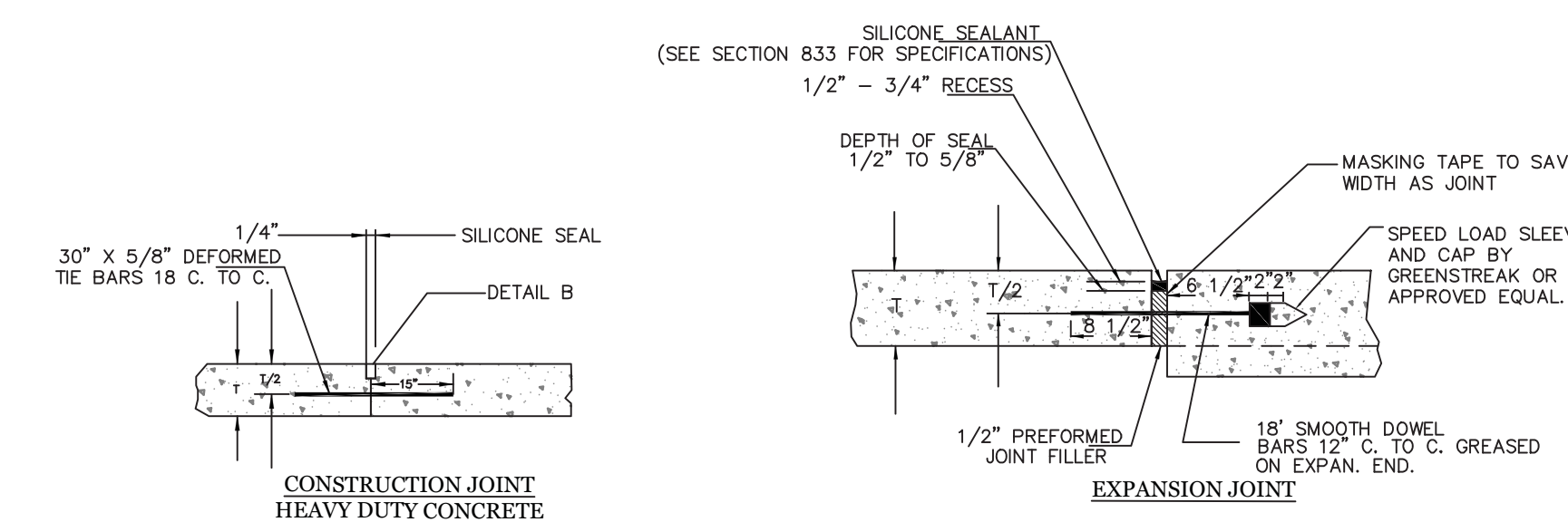
### PARKING ARROWS N.T.S.



### PAVEMENT ARROWS N.T.S.



### PAVEMENT STRIPING N.T.S.



REQUIRED DOWEL BAR DIAMETERS

PAVEMENT THICKNESS (T)	DOWEL BAR DIAMETERS
6"	1-1/8"
7"	1-1/8"
8"	1-1/8"

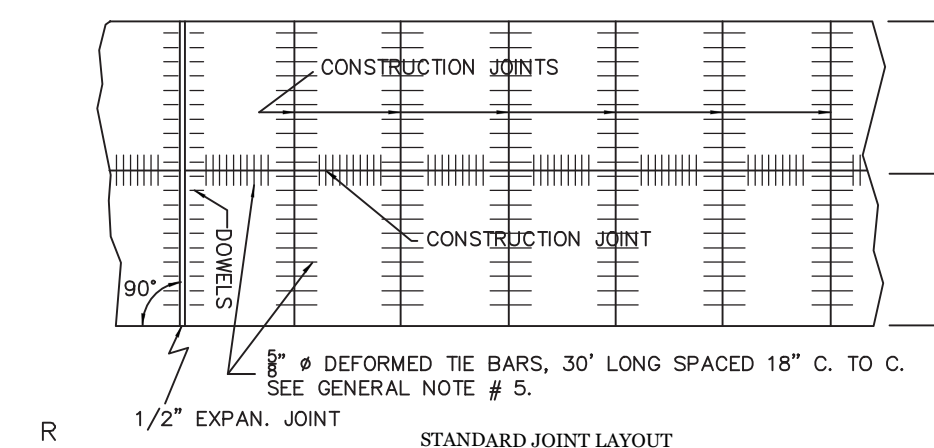
DEPTH OF PAVEMENT

DEPTH OF PAVEMENT	DEPTH OF CUT (D')
6"	1 1/2"
7"	2"
7 1/2"	2 1/8"
8"	2 1/4"

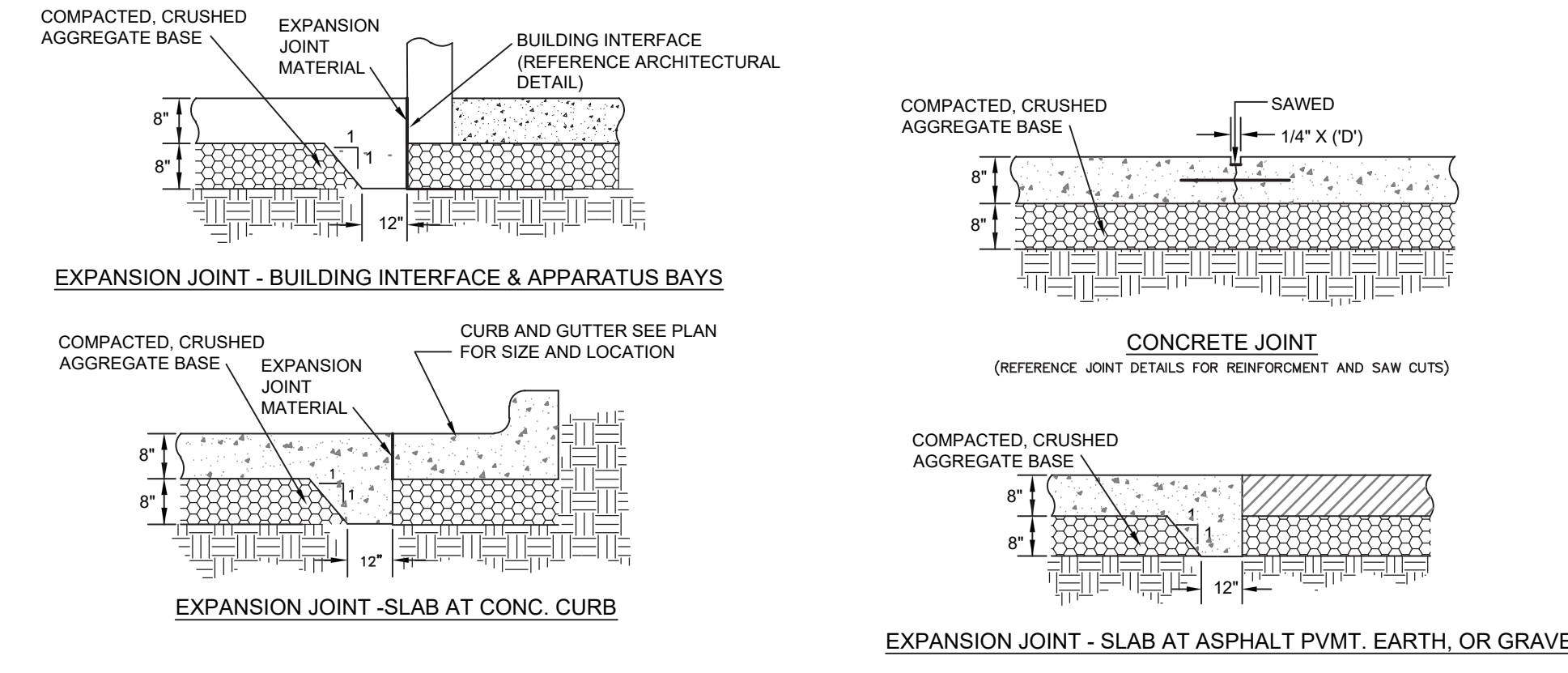
JOINT SCHEDULE

TYPE	W	Ø	7'-11"
CONSTRUCTION JOINT	1/4"	1/4" - 3/8"	3/8" - 1/2"

NOT TO SCALE



- NOTES**
- THE LOCATION OF THE INITIAL SAW CUT MAY VARY BETWEEN THESE LINES.
  - JOINTS IN ACCELERATION AND DECELERATION LANES ARE TO COINCIDE WITH MAINLINE JOINTS, BUT MAY BE NORMAL TO ACCELERATION OR DECELERATION EDGE.
  - SEE GA. STD. SPECIFICATIONS (SEC. 4301) FOR TOLERANCE ON DOWELS.
  - IN CASES WHERE CONCRETE CURB AND GUTTER IS PLACED ADJACENT TO A CONSTRUCTION JOINT AS SHOWN BY THIS STANDARD, THE CONSTRUCTION JOINT SHALL BE SAWED AND SEALED OR FORMED AND SEALED AS A CONSTRUCTION JOINT AS SHOWN BY THIS STANDARD.
  - NO BAR SHALL BE LOCATED CLOSER THAN 18" TO A CONSTRUCTION JOINT, WHERE NEW CONCRETE WILL BE ADJOINING EXISTING CONCRETE. DO NOT THE NEW CONCRETE TO EXISTING CONCRETE.
  - WHEN SELF-LEVELING SILICONE SEALANT IS USED, TOOLING OF THE SEALANT TO OBTAIN A CONCAVE SURFACE IS NOT REQUIRED IF SEALANT MEETS DIMENSIONS OF DETAIL B.
  - EXPANSION JOINT FILLER SHALL BE NONEXTRUDING AND RESILIENT BITUMINOUS TYPE AND CONFORM TO REQUIREMENTS OF AASHTO M 213 OR AS OTHERWISE INDICATED ON THE DRAWINGS.
  - EXPANSION TUBES SHALL BE METAL DOWEL CAPS OR TUBES MANUFACTURED FROM 32 GAGE SHEET METAL, SHALL BE INDENTED TO PROVIDE A LIMITING STOP FOR THE DOWEL BAR AND SHALL PROVIDE UNOBSTRUCTED EXPANSION SPACE OF NOT LESS THAN 1 INCH (25 MM) TO PERMIT MOVEMENT OF THE DOWEL BAR. THEY SHALL BE OF PROPER SIZE TO FIT THE SPECIFIED BARS TIGHTLY AND THE CLOSED END SHALL BE WATERTIGHT.
  - BAR SUPPORTS. FURNISH IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT," ACI 315.



### HEAVY DUTY CONCRETE PAVEMENT N.T.S.

- GENERAL NOTES**
- Concrete to be 4,000 PSI Compressive Strength @ 28 Days.
  - Expansion joint filler shall be non extruding and resilient bituminous type and conform to requirements of AASHTO M 213 or as otherwise indicated on the drawings.
  - Joint sealer shall be of the hot poured type and shall consist of a resilient and adhesive plastic. The material shall be in accordance with ASTM D 1190.
  - Curing materials: Membrane curing compound shall be water soluble emulsion type linseed oil base compound and conform to the requirements for Type 2 compound as specified in ASTM C-309, except that requirements for the sag test and the drying time shall no deleterious effect to the application thereof.
  - Dowels shall conform to ASTM A 615, and shall be either grade 40 or 60 steel.
  - Expansion tubes shall be metal dowel caps or tubes manufactured from 32 gage sheet metal, shall be indented to provide a limiting stop for the dowel bar and shall provide unobstructed expansion space of not less than 1 inch (25 mm) to permit movement of the dowel bar. They shall be of proper size to fit the specified bars tightly and the closed end shall be watertight.
  - Compact top 24" of subgrade to 98% of standard proctor.
  - Graded aggregate base shall be compacted throughout the full depth, to at least 95 percent of the density at optimum moisture based on the weight per cubic foot of the material passing the No. 4 sieve, as determined by ASTM D 1557.
  - Warm Weather. Concrete placement will not be permitted when, in the opinion of the Architect, the sun, heat, wind, or limitations of facilities furnished by the Contractor prevent proper finishing and curing of the concrete in accordance with the requirements of this Section.
  - Cold weather. In addition to other requirements, in cold weather, heat, protect and prepare the subgrade so as to produce a satisfactory subgrade entirely free from frost when the concrete is deposited. Do not place concrete when the ambient temperature is below 35 degrees F. (2 degrees C.), nor when the concrete without special protection is likely to be subject to freezing temperature before final set has occurred.

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FOREST PARK GILLEM PUBLIC SAFETY BUILDING

Land Lots 211 & 212, District 12  
City of Forest Park, GA 30294

CONSTRUCTION DETAILS (1)

SHEET TITLE

CHECKED TP

DRAWN MB

DESIGN MB

RELEASE

DATE NO. DESCRIPTION

10/26/21 102621 RELEASED FOR BID

10/26/21 DATE

A21-006 PPI PROJECT NO.

C7.1

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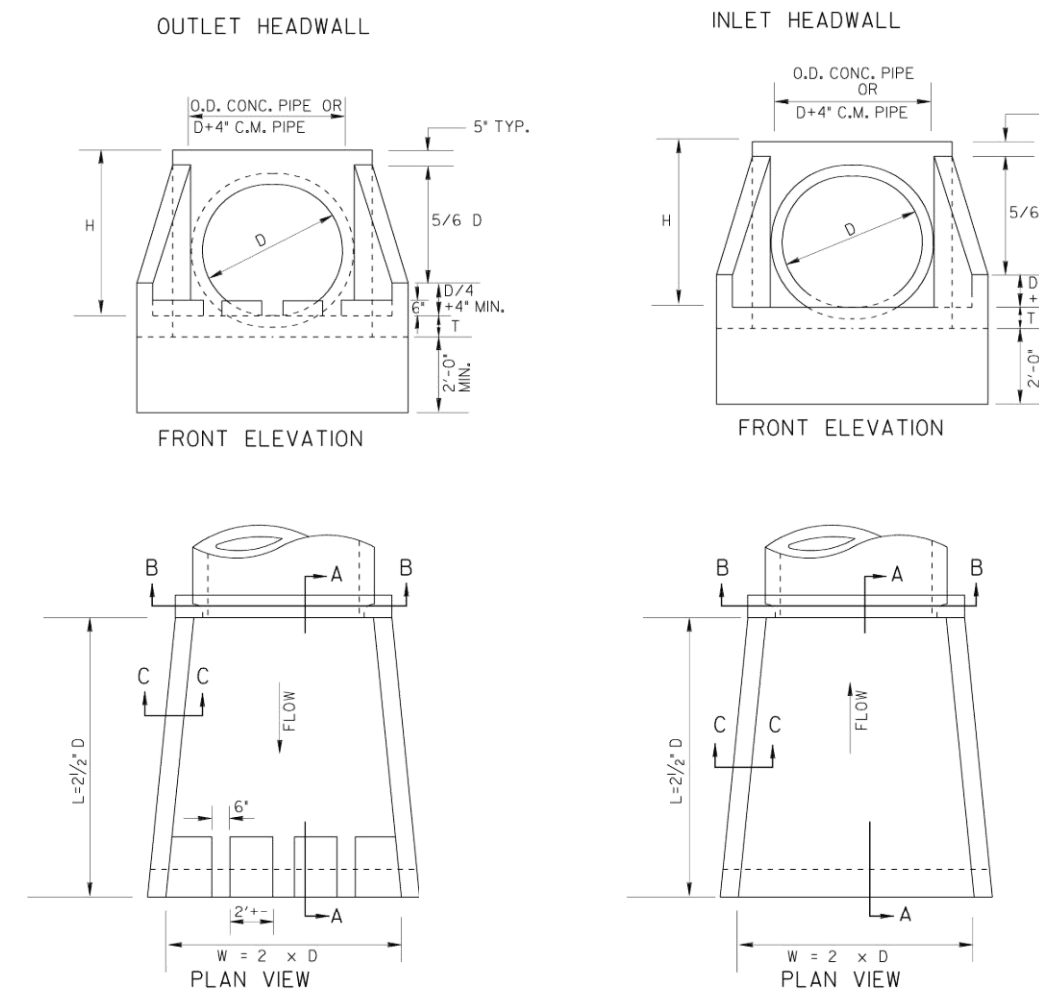
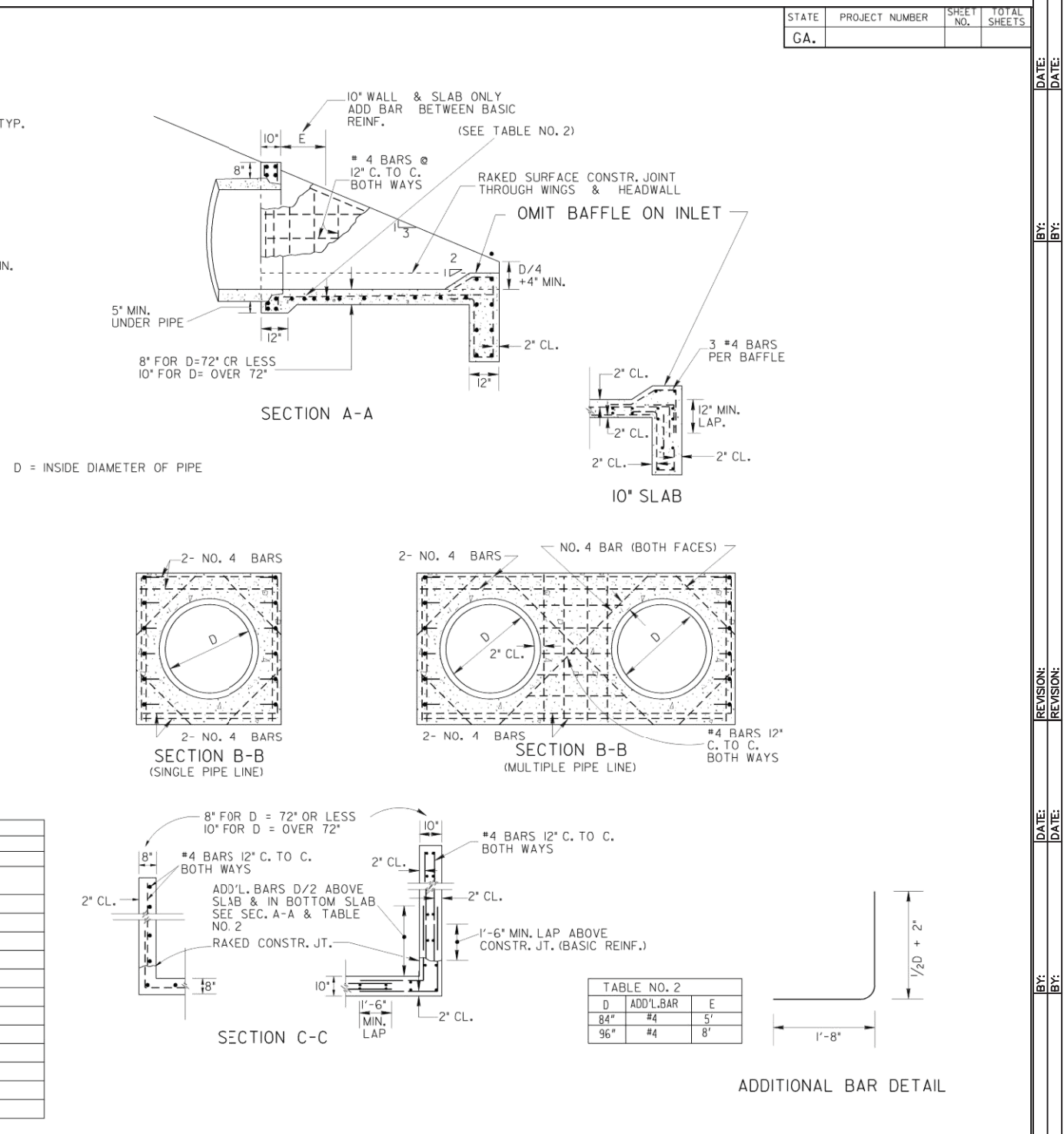


TABLE NO. 1 - QUANTITIES FOR HEADWALLS

CIVIL CONCRETE (BY QUANTITIES)		REINFORCING STEEL (BY WEIGHT)		FORMWORK (BY AREA)	
DIAMETER	LENGTH	INLET	OUTLET	INLET	OUTLET
18"	0.87	0.93	0.60	0.66	0.43
24"	1.00	1.06	0.85	0.53	0.37
30"	1.16	1.23	1.29	0.57	0.38
36"	1.32	1.40	1.83	0.56	0.34
42"	1.49	1.57	2.49	0.53	0.28
48"	1.67	1.75	3.28	0.49	0.23
54"	1.85	1.93	4.19	0.43	0.18
60"	2.04	2.12	5.23	0.36	0.14
66"	2.23	2.31	6.40	0.29	0.10
72"	2.43	2.51	7.70	0.23	0.07
78"	2.63	2.71	9.13	0.18	0.05
84"	2.84	2.92	10.69	0.14	0.04
90"	3.05	3.13	12.38	0.11	0.03



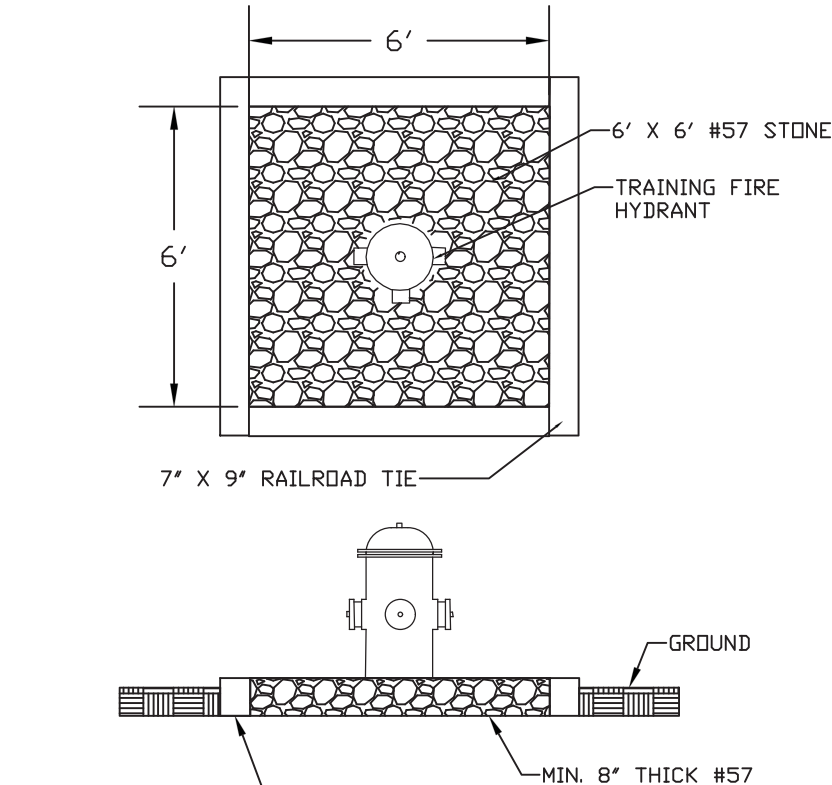
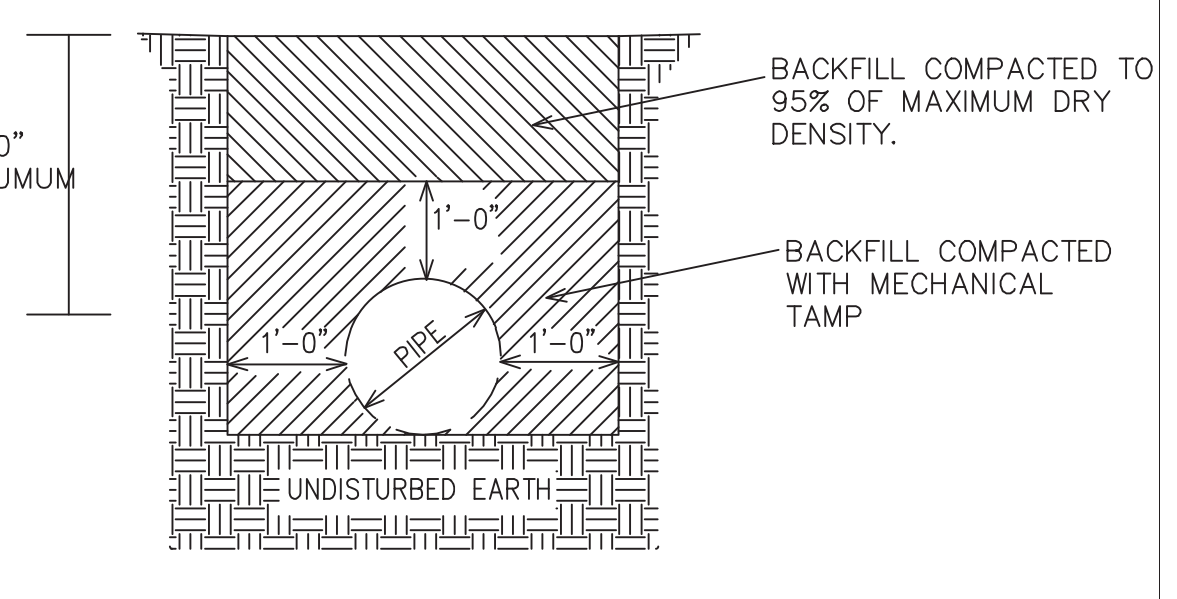
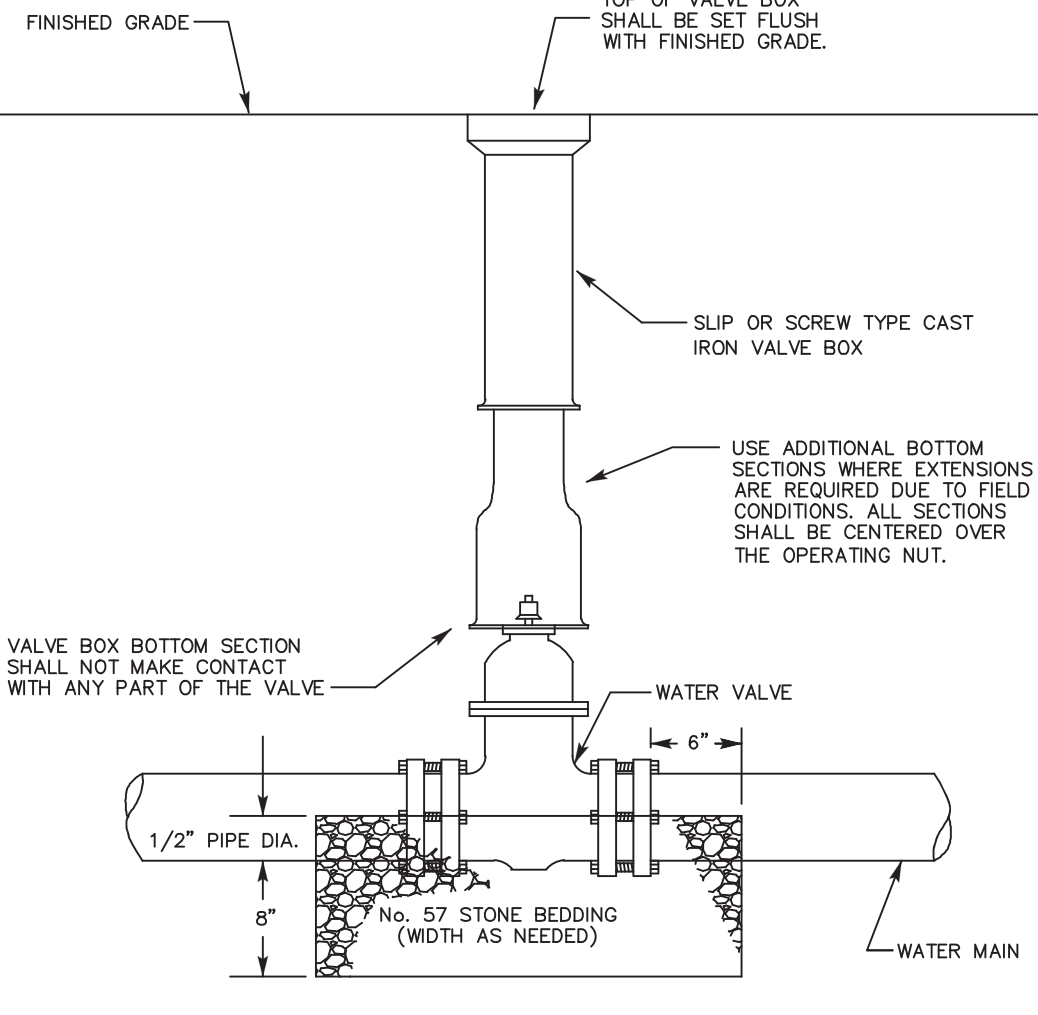
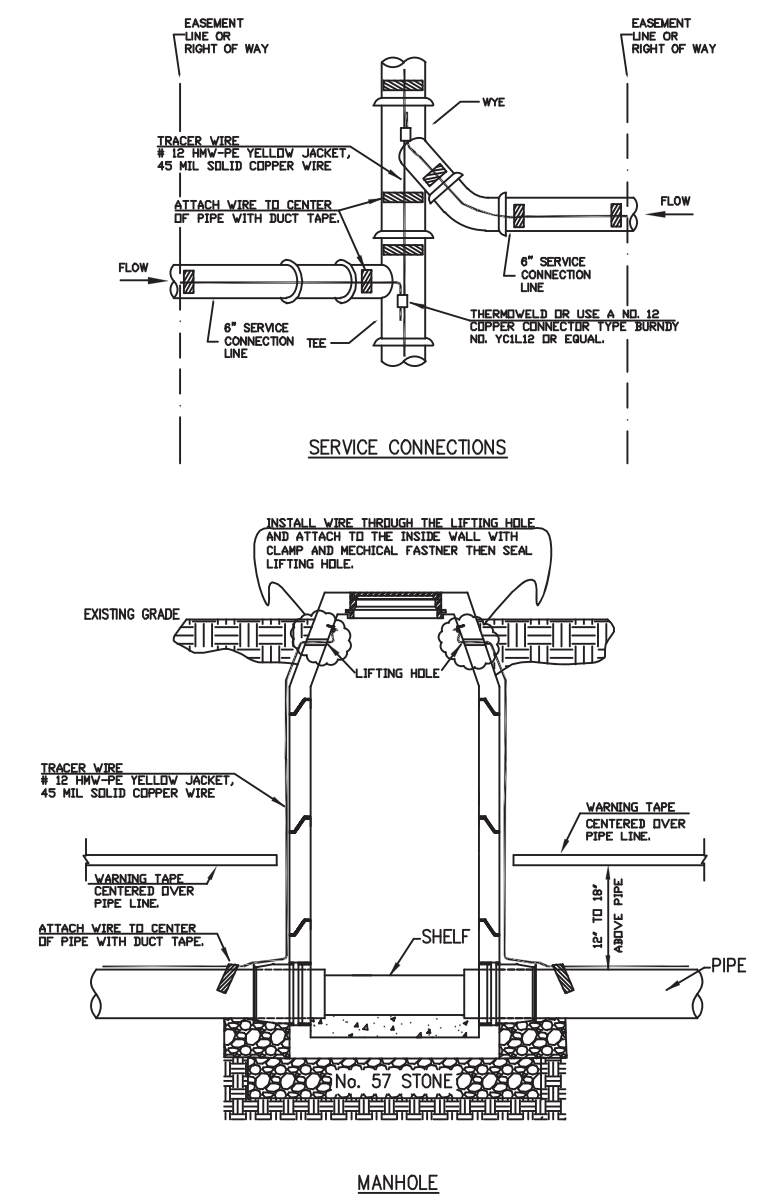
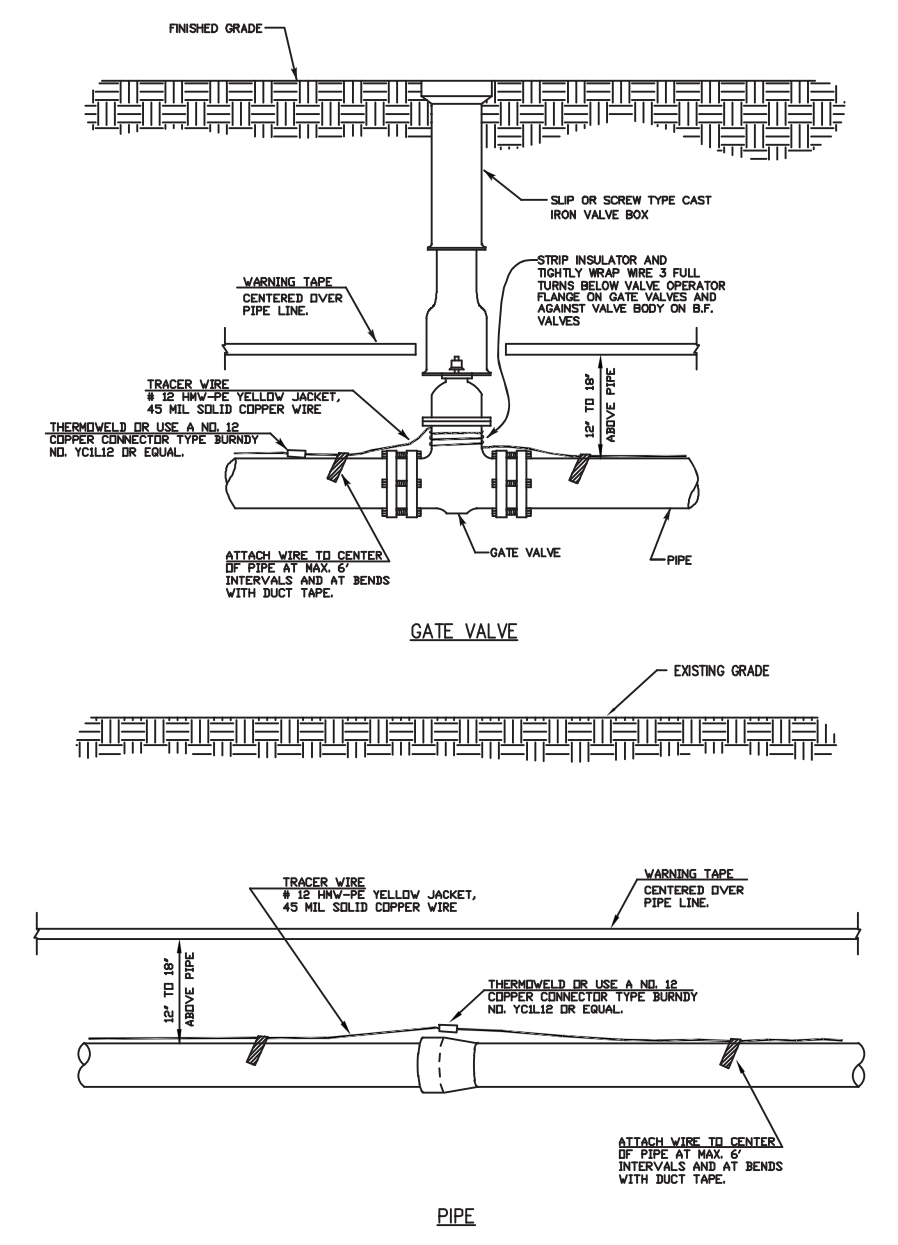
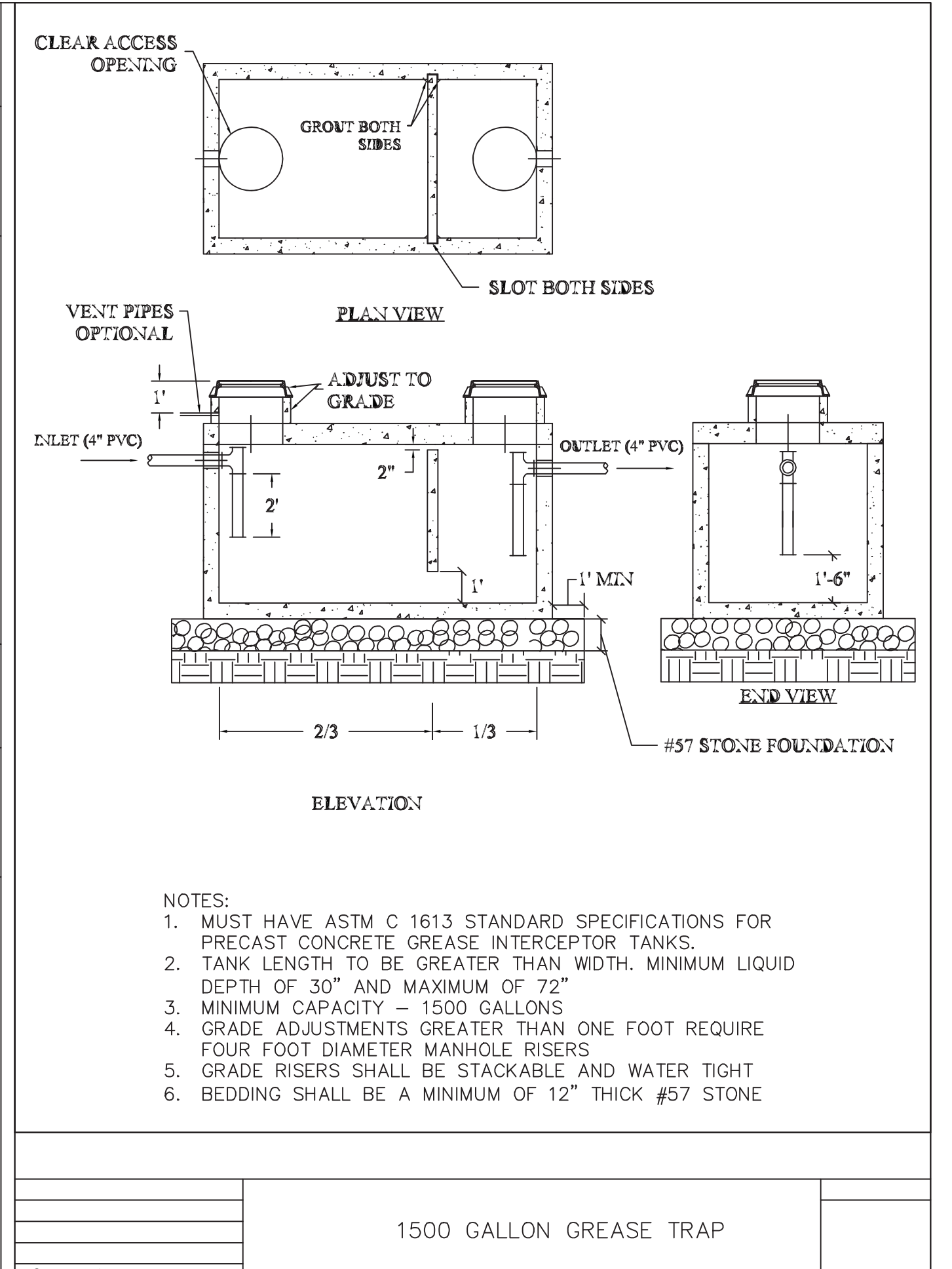
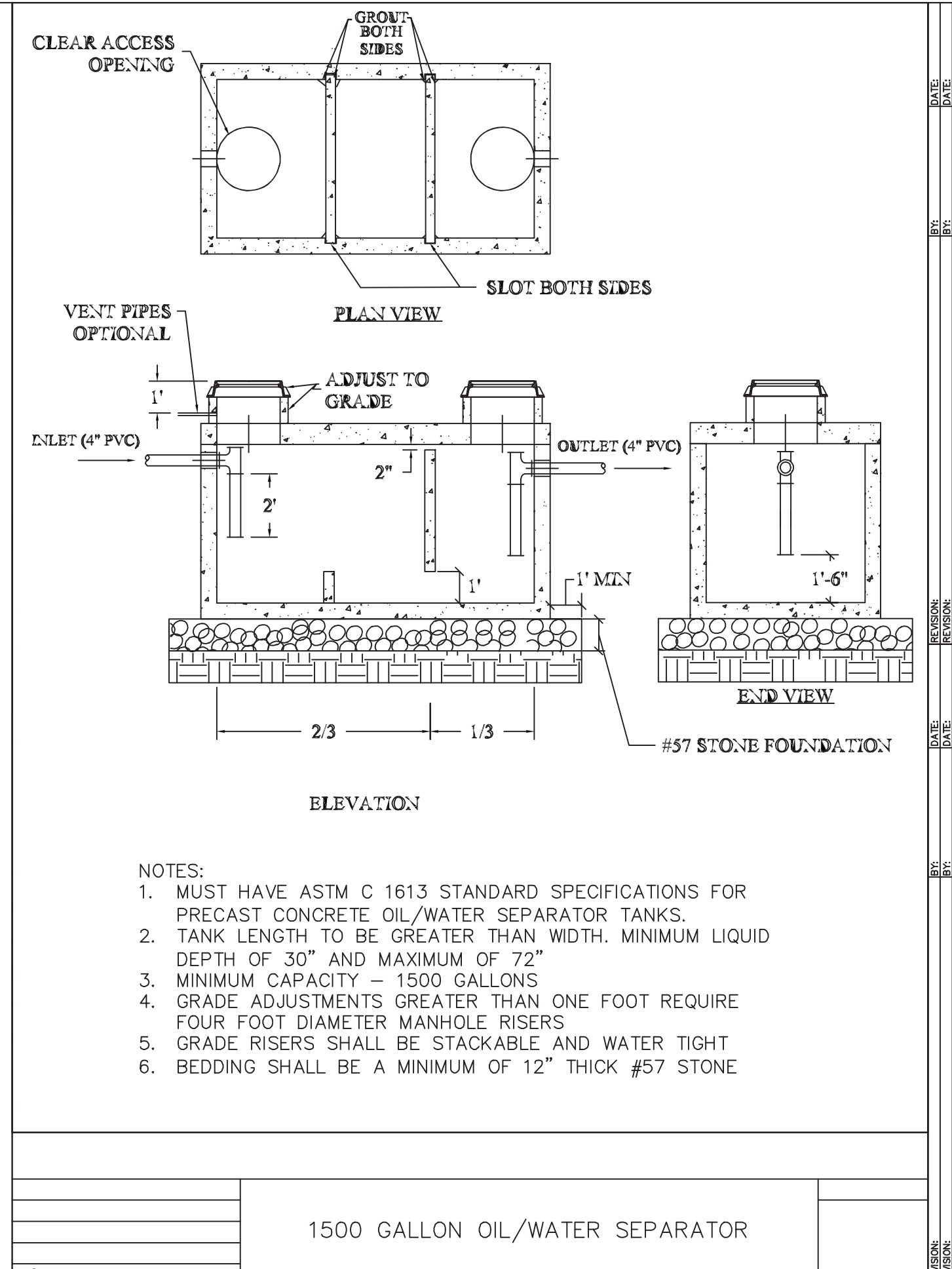
DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)

NO. SCALE: 1/2" = 1'-0"

REV. & REPR. OCT., 1999

NO. 125



DATE:	SCALE:	DRAWN BY:	DETAIL TITLE:	DETAIL NO.	DATE:	SCALE:	DRAWN BY:	DETAIL TITLE:	DETAIL NO.	DATE:	SCALE:	DRAWN BY:	DETAIL TITLE:	DETAIL NO.	DATE:	SCALE:	DRAWN BY:	DETAIL TITLE:	DETAIL NO.
MAY 24, 2005	N.T.S.	SRD	PIPE DETECTION INSTALLATION I	2.2	MAY 24, 2005	N.T.S.	WWB	PIPE DETECTION INSTALLATION II	2.3	12 FEBRUARY 2002	N.T.S.	SRD	VALVE BOX	6.1	12 FEBRUARY 2002	N.T.S.	SRD	TYPICAL DUCTILE IRON PIPE BEDDING	8.1

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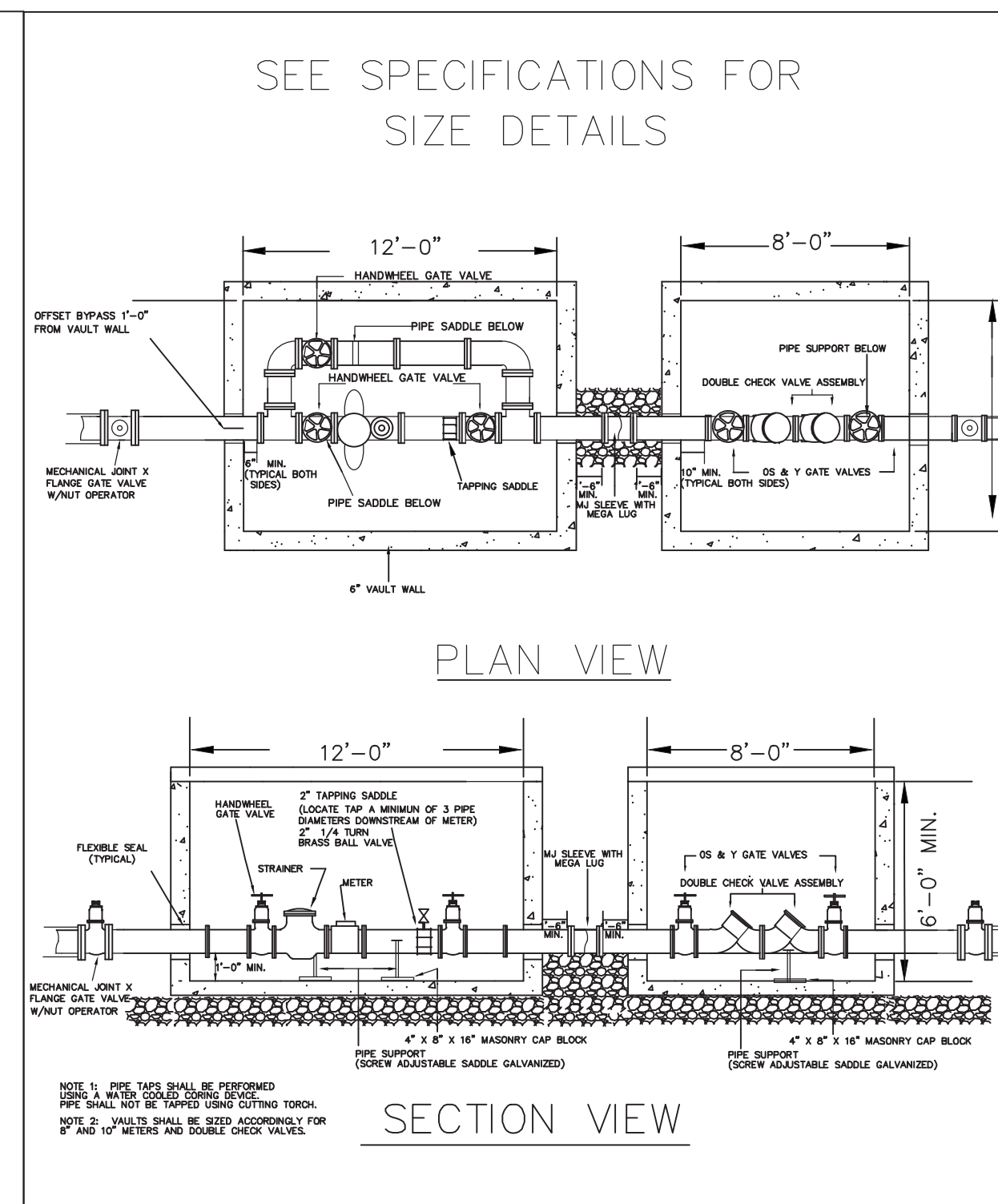
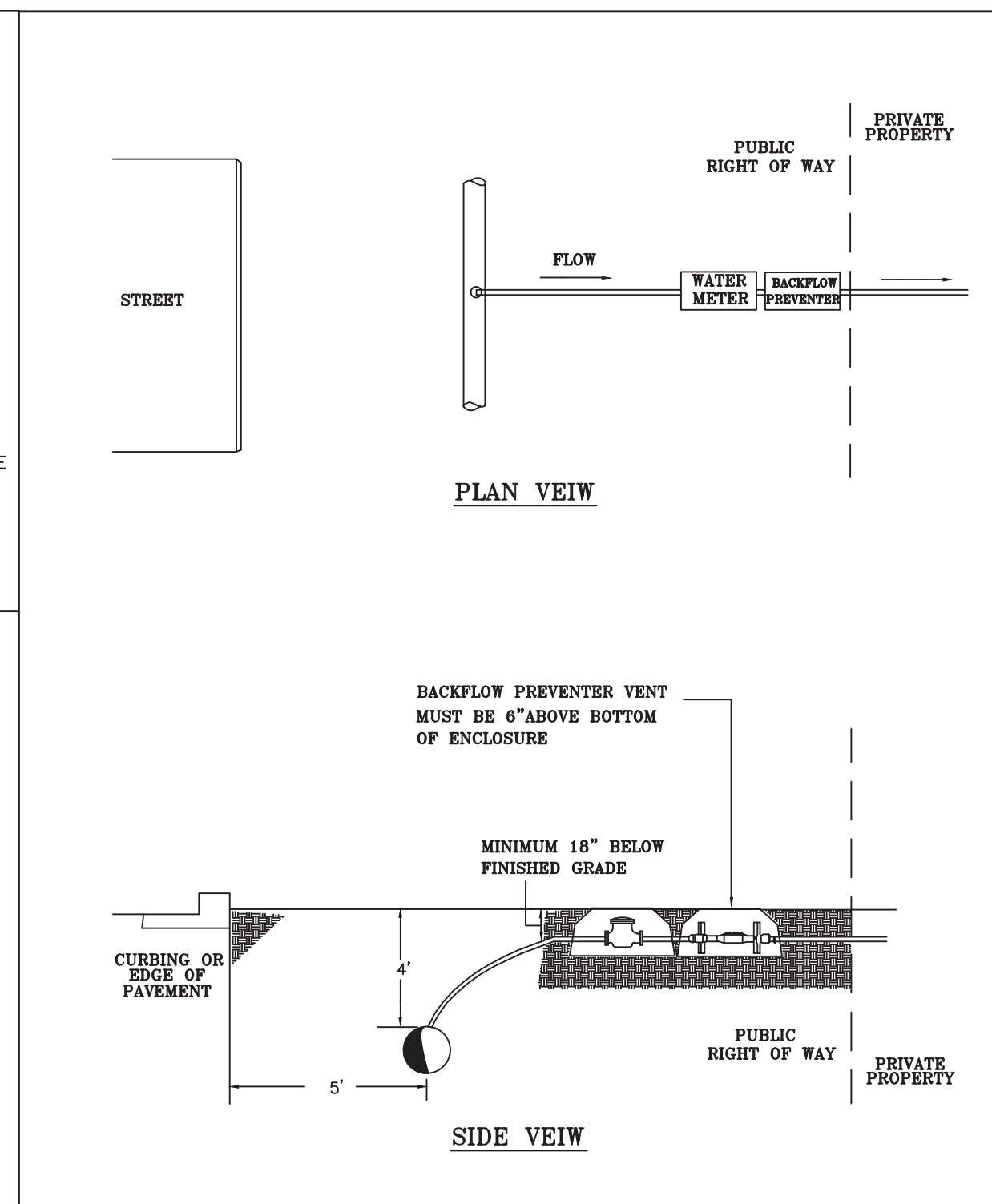
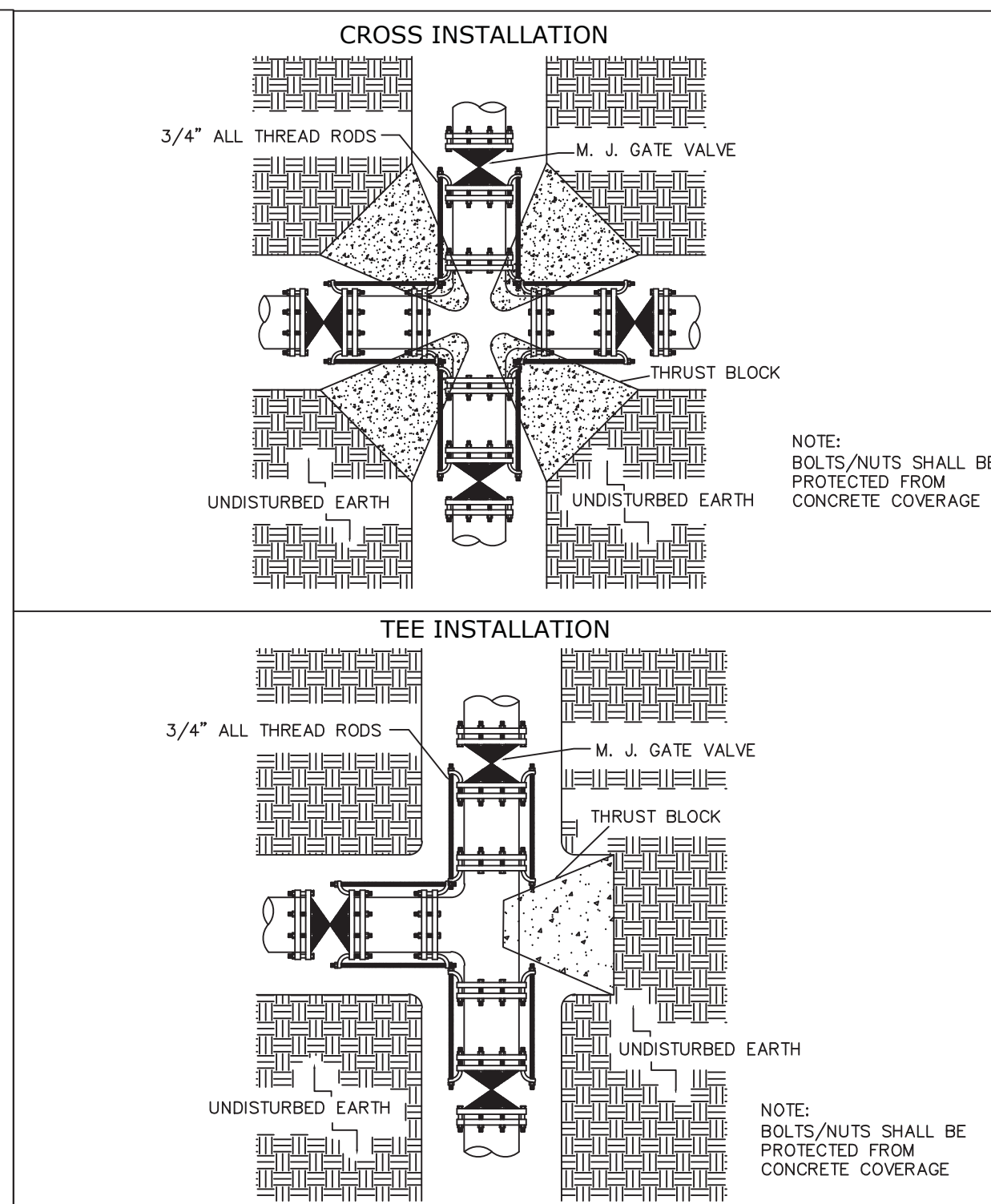
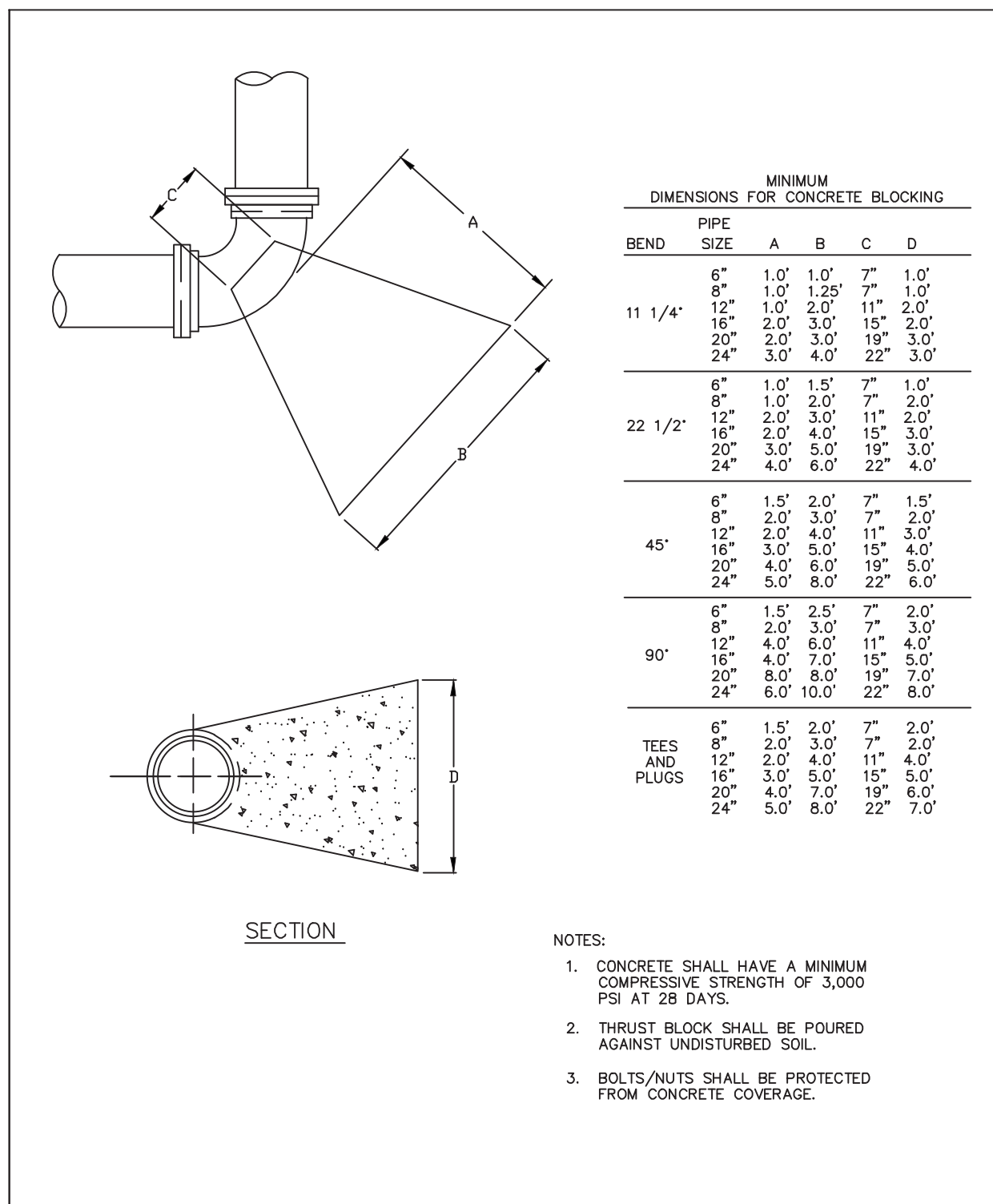
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FOREST PARK GILLEM PUBLIC SAFETY BUILDING  
Land Lots 211 & 212, District 12  
City of Forest Park, GA 30294

CONSTRUCTION DETAILS (3)  
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DRAWN: MB  
CHECKED: TP  
DESIGN: MB  
RELEASE

DATE: 10/26/21  
10/26/21  
A21-006  
PPI PROJECT NO.  
C7.3

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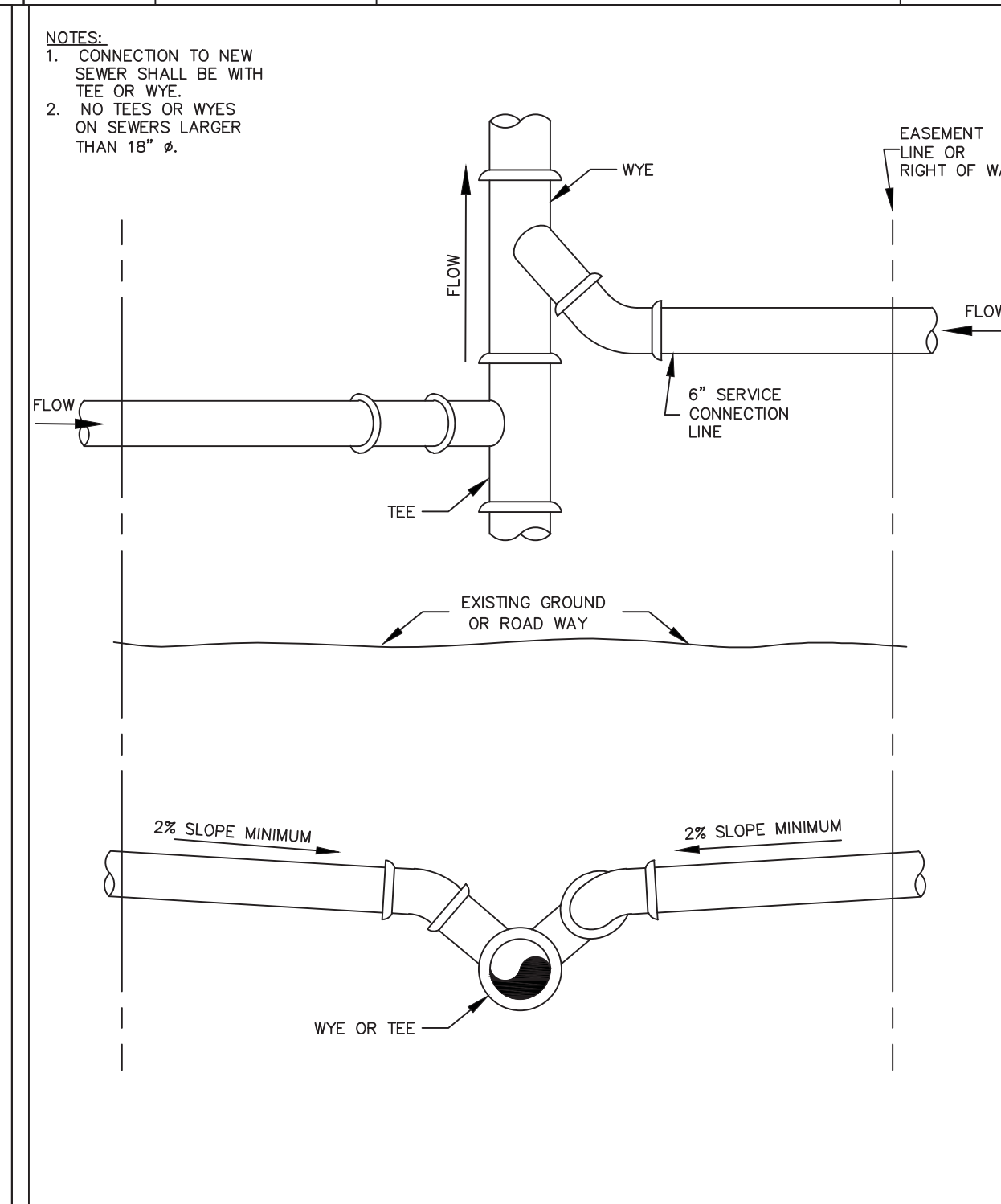
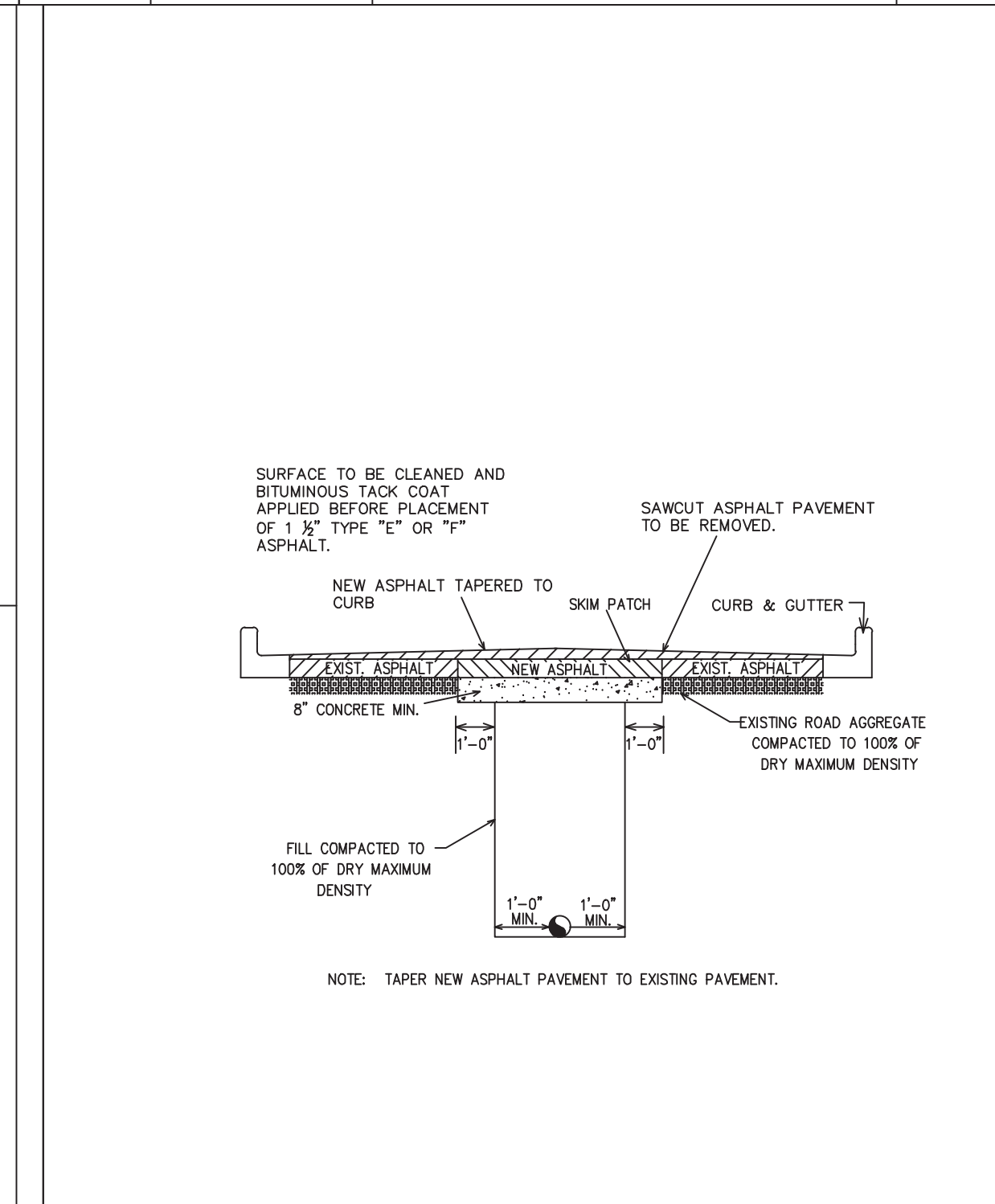
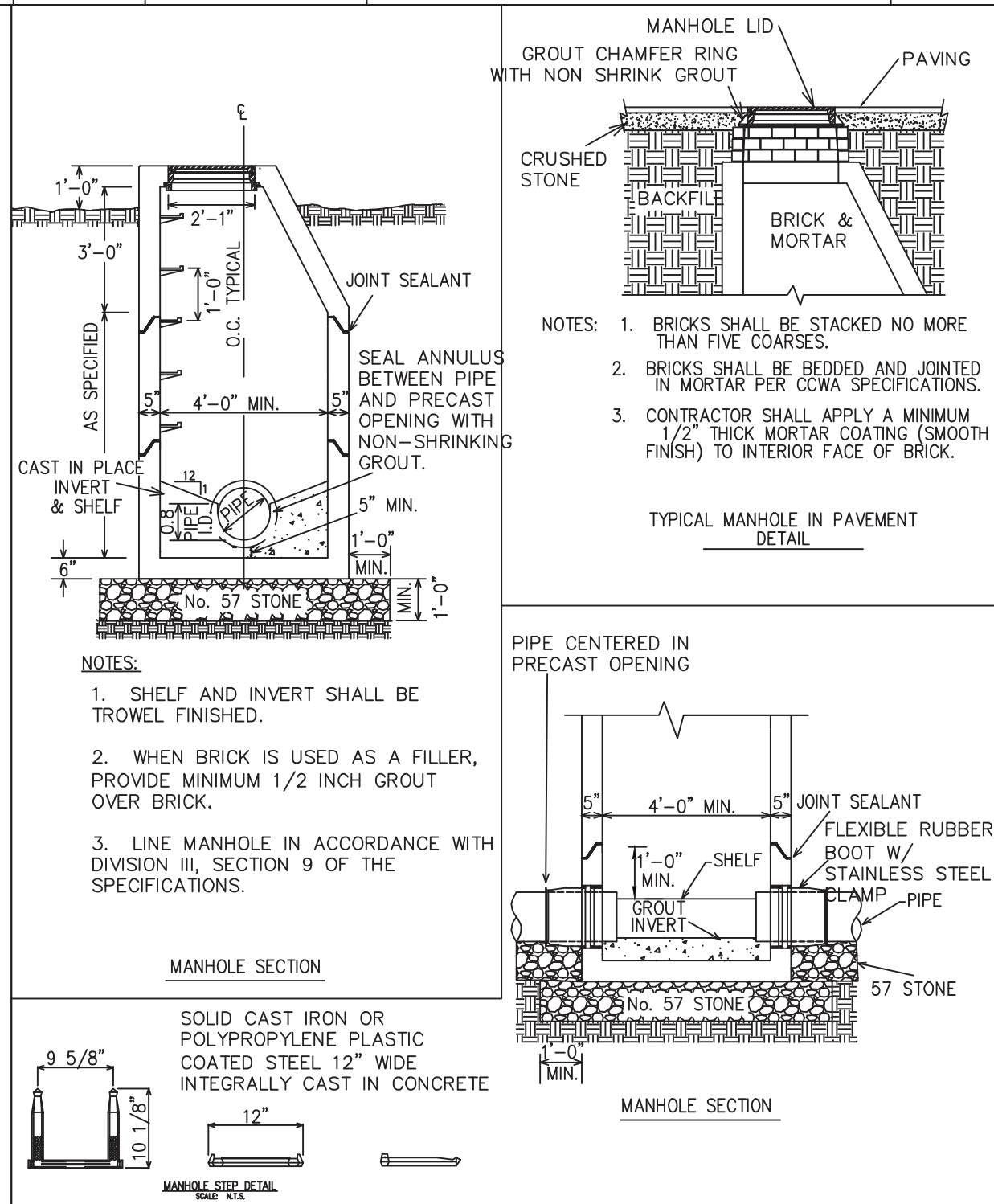
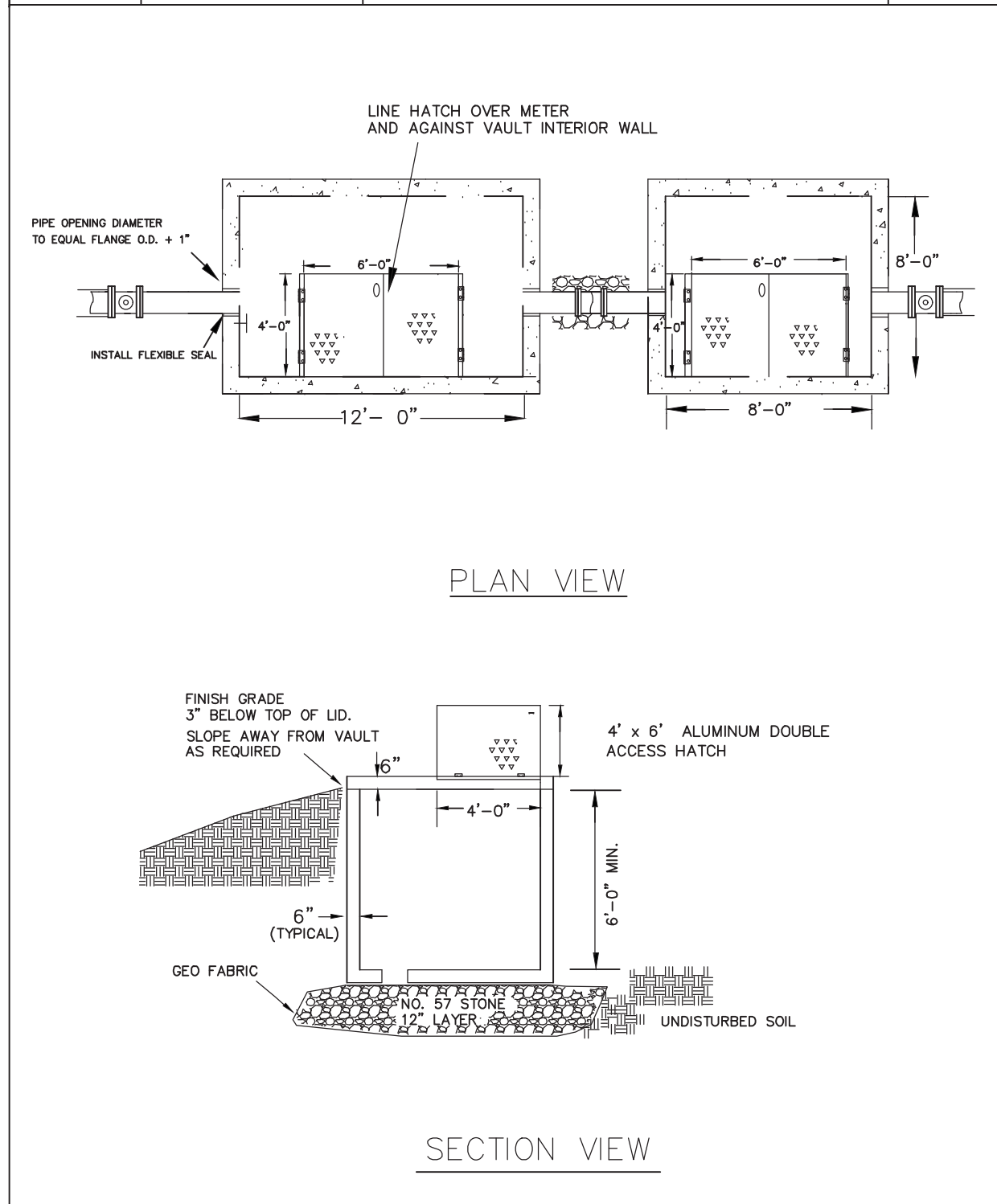


CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	THRUST BLOCK DIMENSIONS
SCALE:	N.T.S.	DETAIL NO.:	9.1
DRAWN BY:	SRD		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	THRUST RESTRAINT AT FITTING
SCALE:	N.T.S.	DETAIL NO.:	10.1
DRAWN BY:	SRD		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	WATER METER BOX
SCALE:	N.T.S.	DETAIL NO.:	11.1
DRAWN BY:	SRD		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	FIRE METER
DATE MODIFIED:	21 NOVEMBER 2002	SCALE:	N.T.S.
DRAWN BY:	NER	DETAIL NO.:	14.1



CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	FIRE METER VAULT AND LID (CONCRETE)
SCALE:	N.T.S.	DETAIL NO.:	15.1
DRAWN BY:	NER		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	MANHOLE SECTIONS
DATE MODIFIED:	5 JANUARY 2004	SCALE:	N.T.S.
DRAWN BY:	SRD	DETAIL NO.:	21.1

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	TYPICAL ASPHALT TO CURB REPLACEMENT
SCALE:	N.T.S.	DETAIL NO.:	29.1
DRAWN BY:	WWB		

CLAYTON COUNTY WATER AUTHORITY			
DATE:	12 FEBRUARY 2002	DETAIL TITLE:	LATERAL CONNECTION
SCALE:	N.T.S.	DETAIL NO.:	19.1
DRAWN BY:	SRD		

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 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

CONSTRUCTION DETAILS (4)

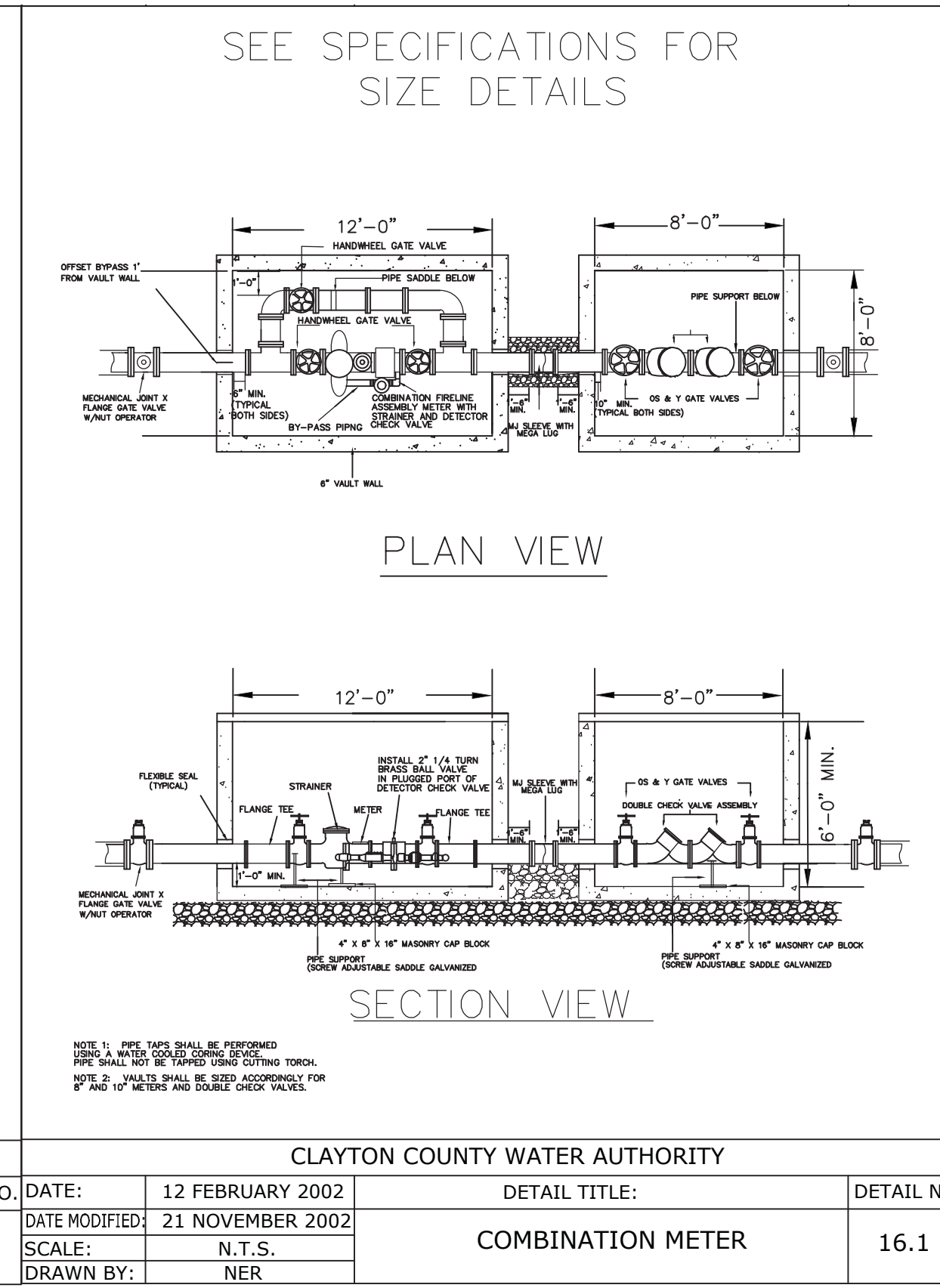
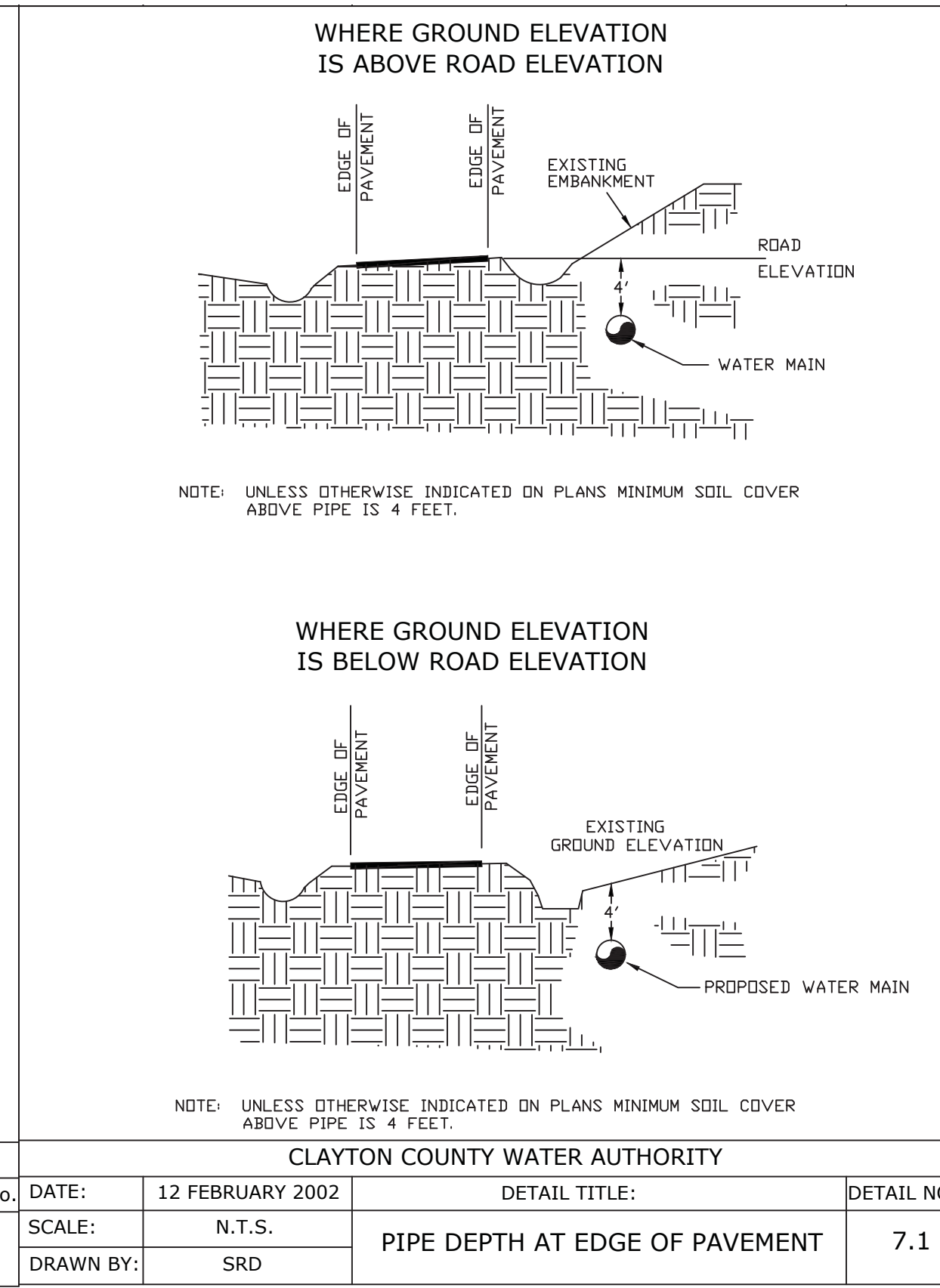
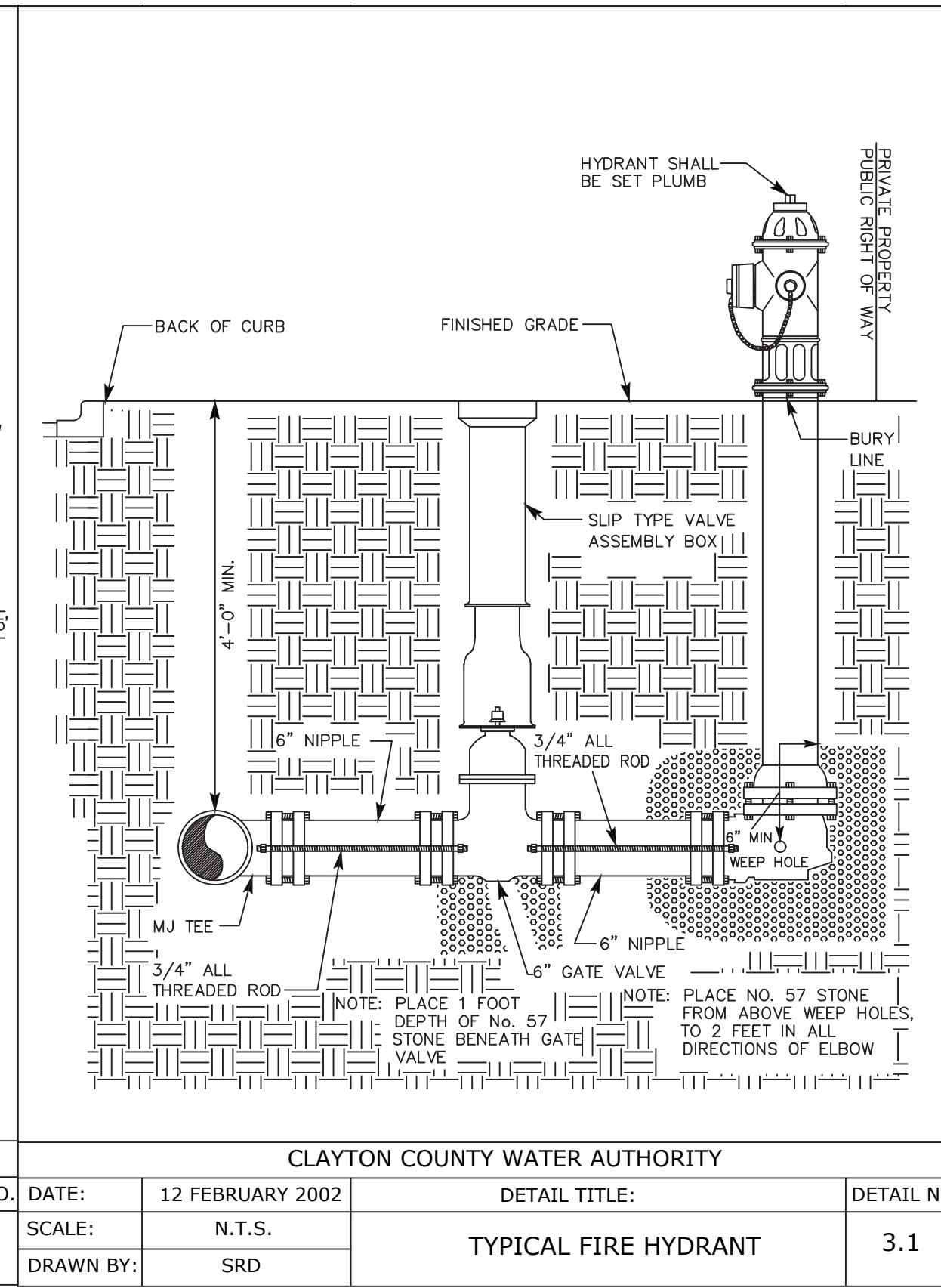
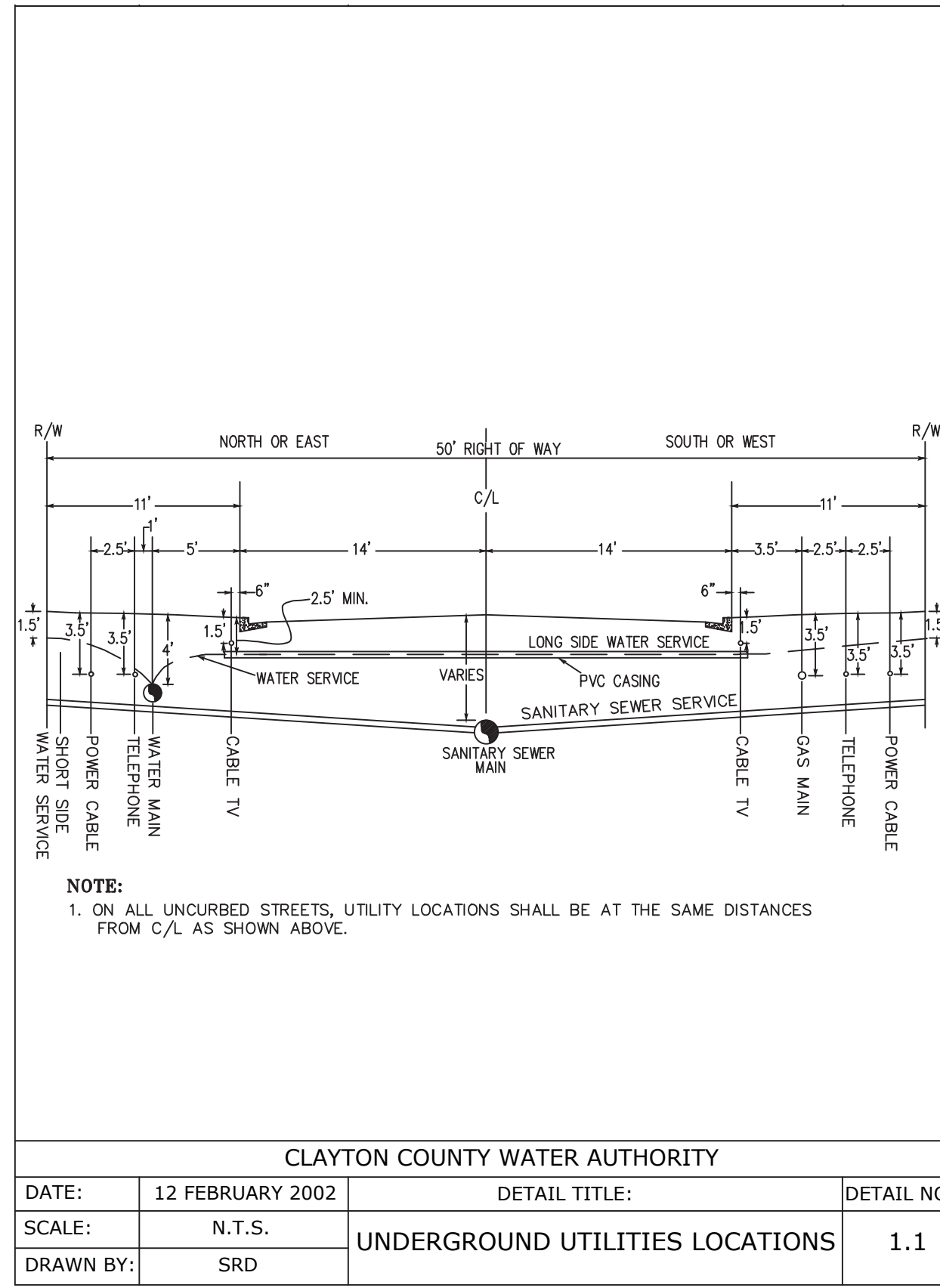
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RELEASE

DATE 10/26/21  
 DATE A21-006  
 PPI PROJECT NO. C7.4

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 City of Forest Park, GA 30294

CONSTRUCTION DETAILS (5)		SHEET TITLE	
DESIGN	MB	DRAWN	MB
CHECKED	TP		

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10/26/21  
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 A21-006  
 PPI PROJECT NO.

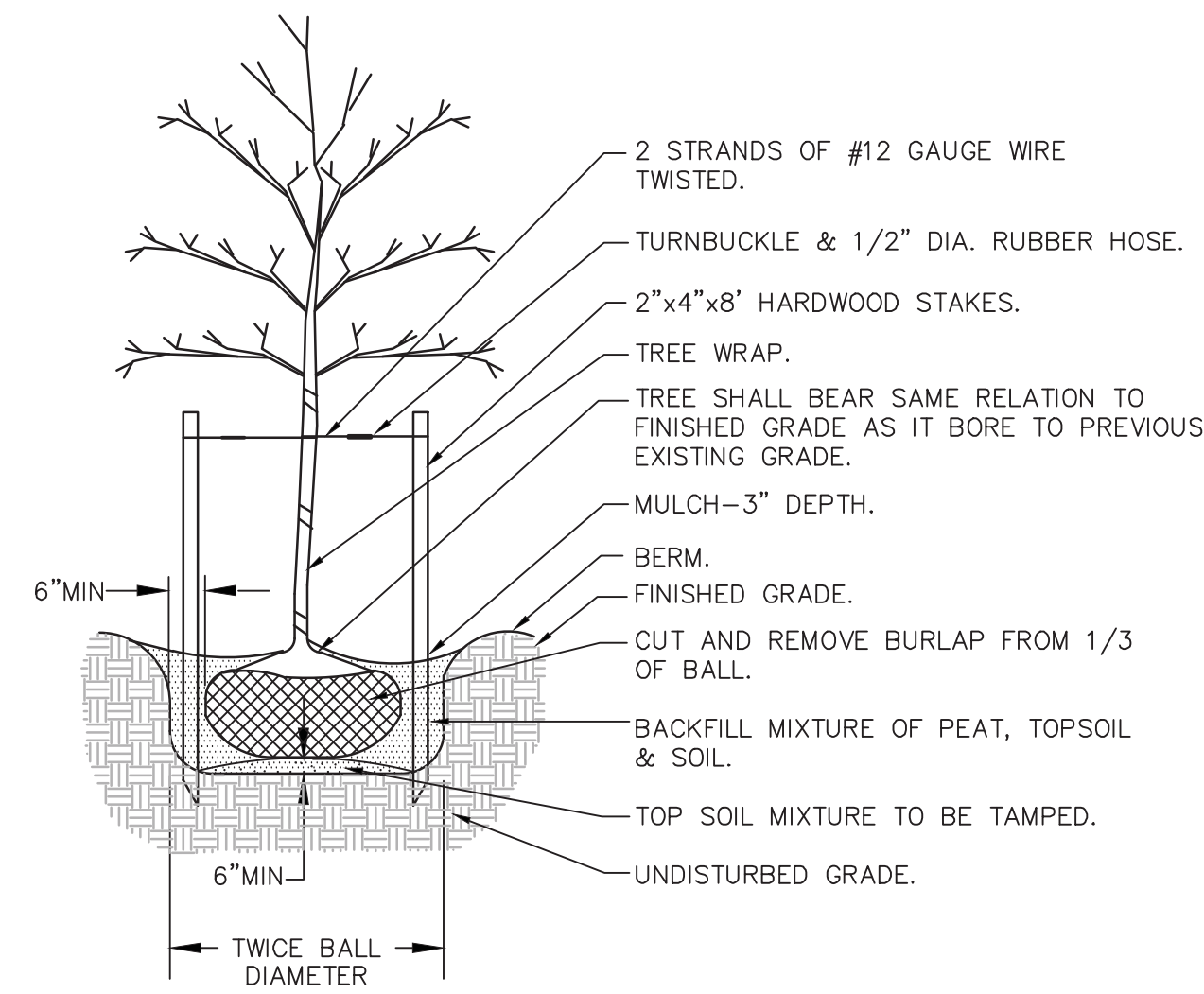
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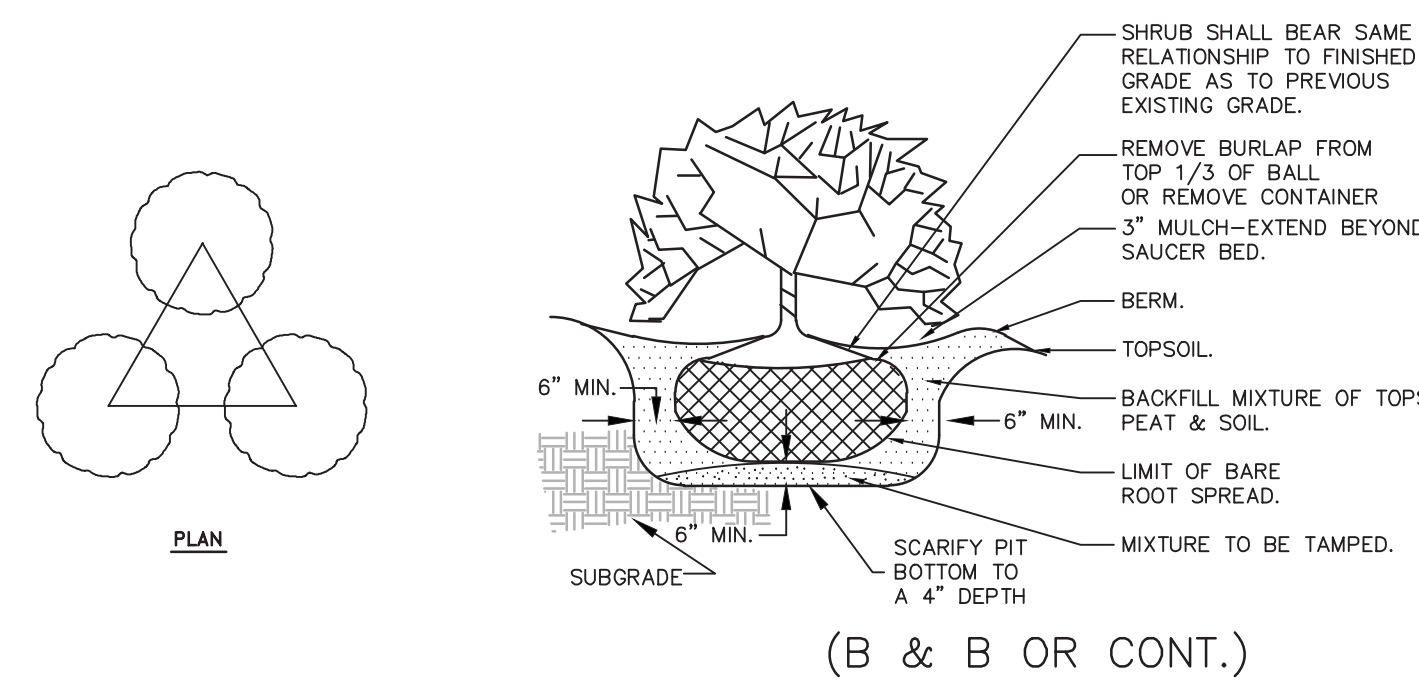
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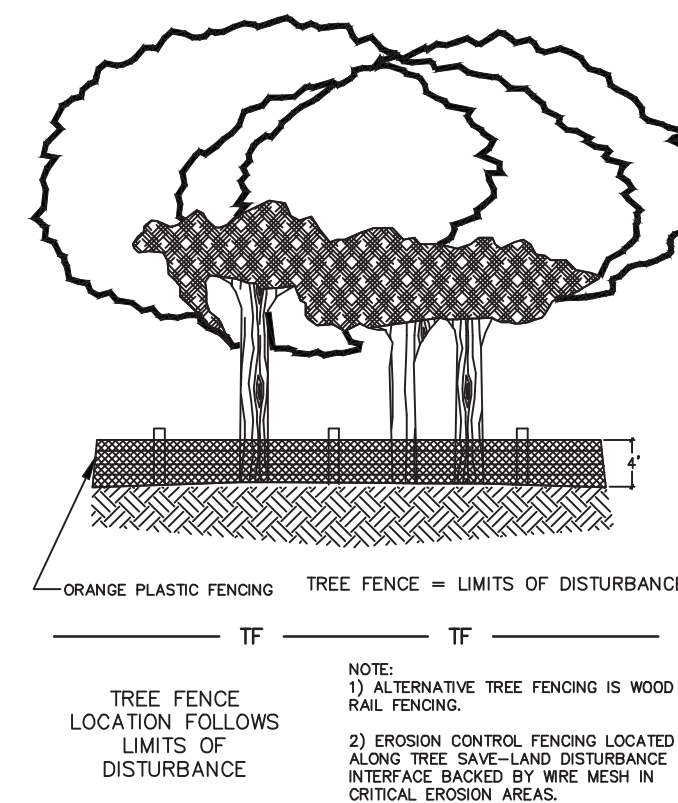




TYPICAL TREE PLANTING NTS



TYPICAL SHRUB PLANTING NTS



TREE PROTECTION FENCE NTS

TREE PROTECTION - TREE REPLACEMENT NOTES

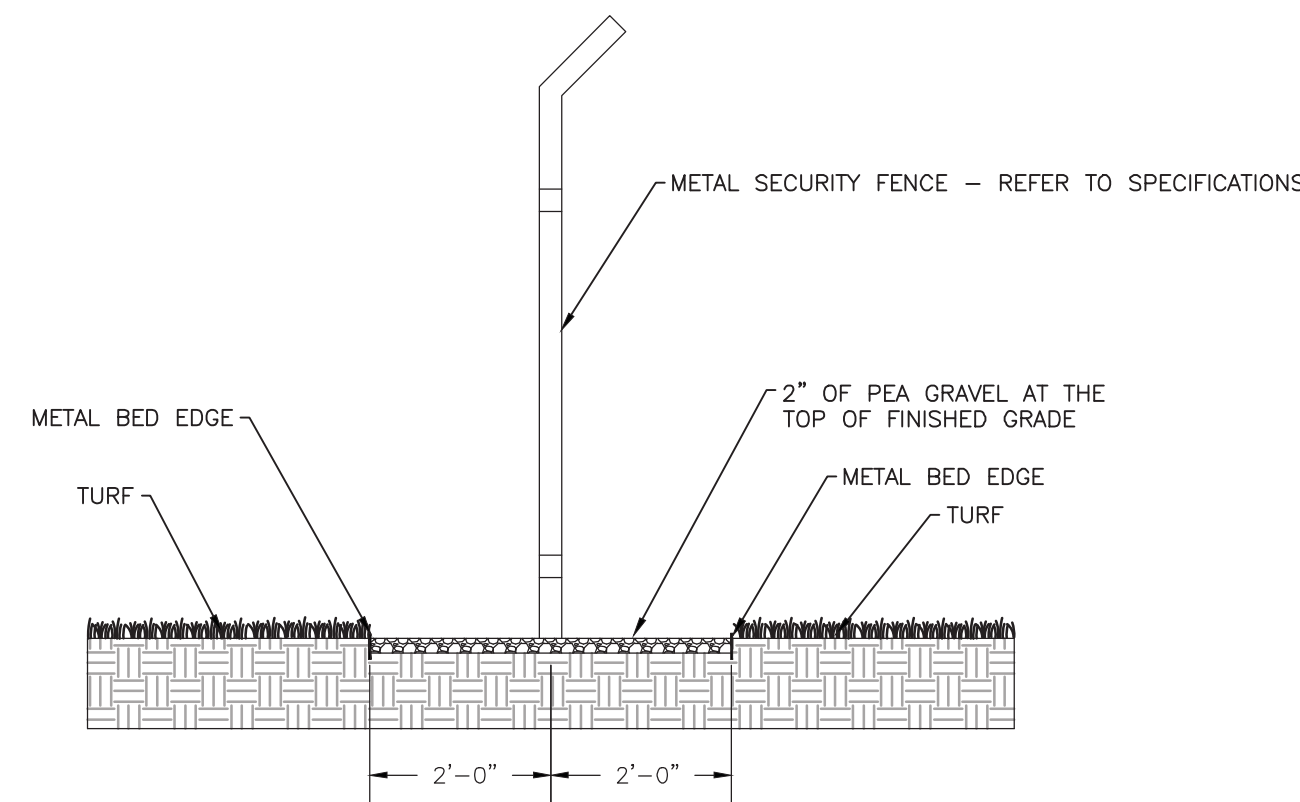
1. DEVIATION FROM THE PERMITTED PLANS SHALL BE SUBMITTED BY THE LANDSCAPE CONTRACTOR TO THE LOCAL JURISDICTION FOR CODE COMPLIANCE APPROVAL.
2. DECIDUOUS TREES SHALL BE AT LEAST 2 INCHES IN DIAMETER AND ALL EVERGREEN TREES SHALL BE AT LEAST 6 FEET IN HEIGHT AT TIME OF PLANTING.
3. ALL AREAS NOT COVERED BY BUILDING, PAVING, OR LANDSCAPING SHALL BE GRASSED. SEE EROSION CONTROL FOR TYPES OF GRASSING AND PLANTING DATES.
4. MULCH ALL PLANTING BEDS AT 3" MINIMUM DEPTH W/ PINE STRAW OR DOUBLE GROUND HARDWOOD MULCH.
5. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN ANY DETENTION FACILITY CONSTRUCTED ON THEIR PROPERTY AND TO ENSURE THE FACILITY IS FREE OF OBSTRUCTION, SILT, OR DEBRIS.
6. ALL BUFFER AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH PROTECTIVE TREE FENCING ADJOINING ALL ZONING BUFFERS AND TREE SAVE AREAS. FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE.
7. A COMMERCIAL APPLICATOR LICENSE AND A PESTICIDE CONTRACTOR LICENSE ARE REQUIRED BY THE CONTRACTOR IF THE USE OF HERBICIDES ARE NECESSARY FOR NOXIOUS PLANT MATERIAL REMOVAL.
8. NON-VEGETATIVE MATERIAL TO BE REMOVED MANUALLY.
9. TREES SHALL BE IN PLACE AND PLANTED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

GENERAL PLANTING NOTES

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE OWNER BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT TO THE LANDSCAPE CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS PRIOR TO PRICING THE WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS AND LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
10. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
11. THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
12. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
13. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
14. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	Notes
	3	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBLD	3" CAL	AS SHOWN	STRAIGHT CENTRAL LEADER TO MINIMUM 6' HT, WELL SPACED BRANCHES, SYMMETRICAL CROWN
	1	LAGERSTROEMIA INDICA 'TORTO'	TORTO CRAPE MYRTLE	8' HT	AS SHOWN	STRAIGHT CENTRAL LEADER TO MINIMUM 6' HT, WELL SPACED BRANCHES, SYMMETRICAL CROWN
	3	QUERCUS NUTTALLI	NUTTALL OAK	3" CAL	AS SHOWN	STRAIGHT CENTRAL LEADER TO MINIMUM 6' HT, WELL SPACED BRANCHES, SYMMETRICAL CROWN
	3	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	3" CAL	AS SHOWN	STRAIGHT CENTRAL LEADER TO MINIMUM 6' HT, WELL SPACED BRANCHES, SYMMETRICAL CROWN
SHRUBS & ORNAMENTAL GRASS						
	50	ILEX CRENATA 'SOFT TOUCH'	SOFT TOUCH HOLLY	3 GAL	3' O.C.	FULL POT, WELL SHAPED
	57	LOROPETALUM CHINENSE 'CRIMSON FIRE'	CRIMSON FIRE LOROPETALUM	3 GAL	3' O.C.	FULL POT, WELL SHAPED
	55	NANDINA DOMESTICA 'FIREPOWER'	FIREPOWER NANDINA	3 GAL	2'-6" O.C.	FULL POT, WELL SHAPED
	2	RHODODENDRON 'CONLEE' PP10567	AUTUMN AMETHYST AZALEA	3 GAL	4' O.C.	FULL POT, WELL SHAPED
GROUND COVER, MULCH, TURF, ETC.						
	395	LIRIOPE MUSCARI 'VARIEGATA'	VARIEGATED LIRIOPE	1 GAL	1' O.C.	FULL POT, WELL SHAPED
	23,000 SF	TITUF BERMUJA SOD				
	76,600 SF	BERMUJA SEED				



TYPICAL BED AT FENCE NTS

**ENGINEER**  
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**OWNER / DEVELOPER**  
 CITY OF FOREST PARK  
 745 FOREST PARKWAY  
 FOREST PARK, GA 30297  
 CONTACT: JAMES SHELBY  
 PHONE: 404-201-1099  
 EMAIL: JSHELBY@FORESTPARKGA.GOV

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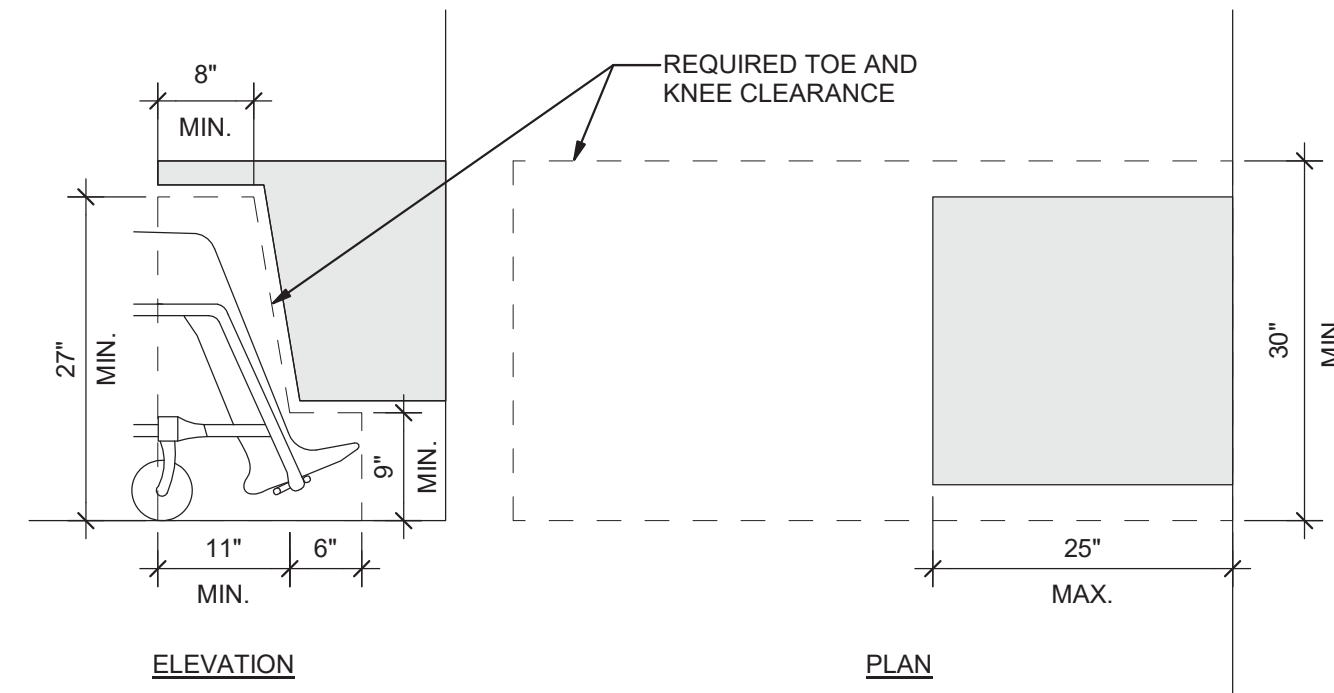
FOREST PARK GILLEM  
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 Land Lots 211 & 212, District 12  
 City of Forest Park, GA 30294

LANDSCAPE NOTES & DETAILS  
 SHEET TITLE  
 DESIGN MB  
 DRAWN MB  
 CHECKED TP

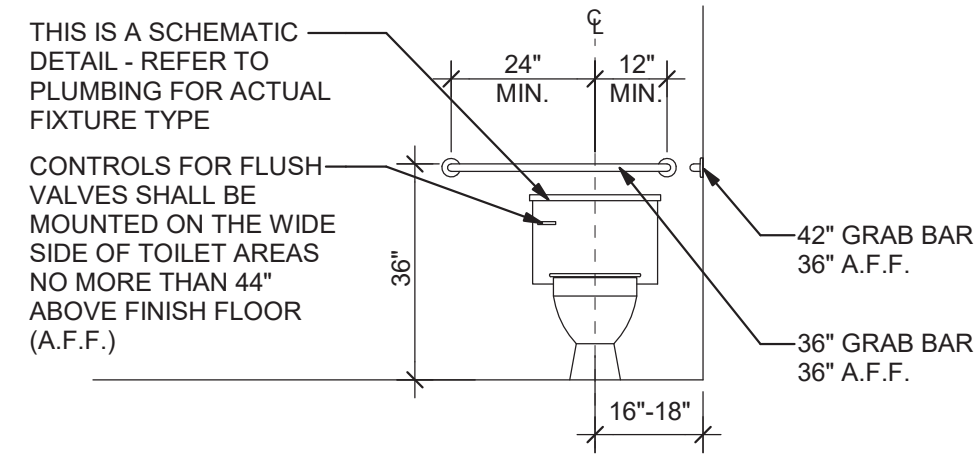
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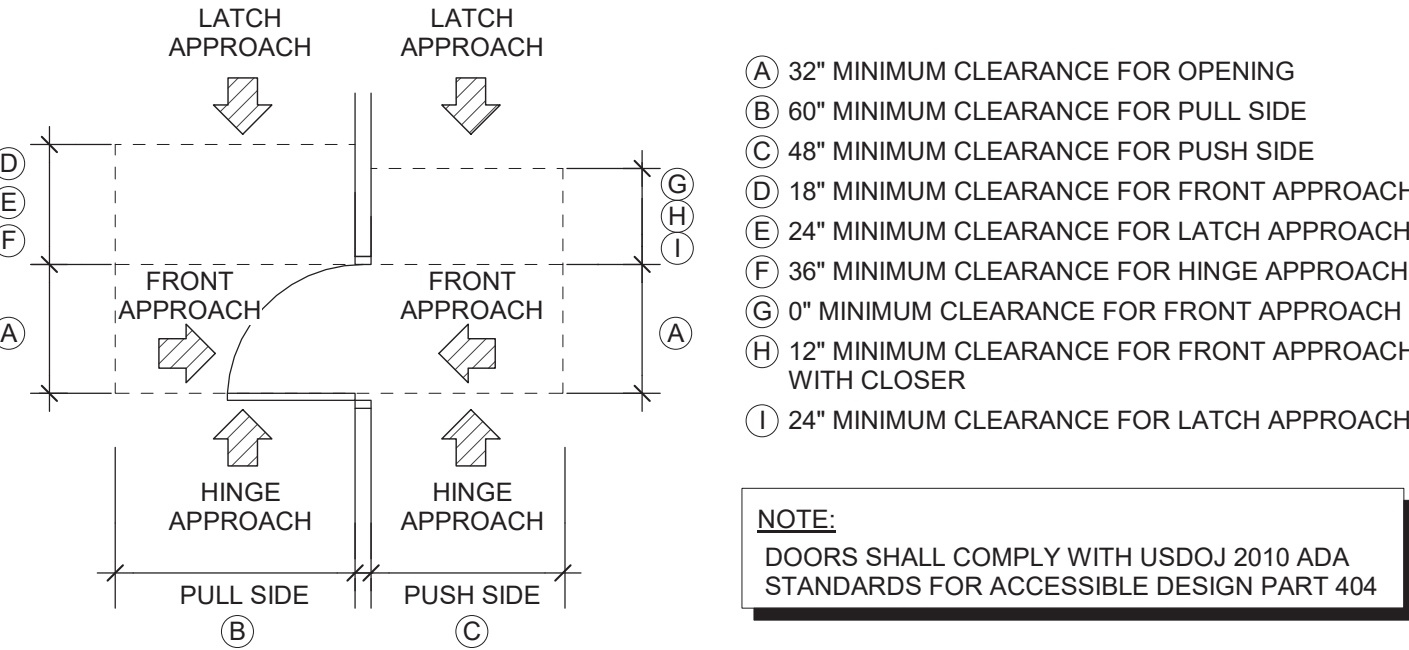


1 ADA Toe and Knee Clearance  
LS1.1 NOT TO SCALE



NOTE: THIS IS A SCHEMATIC DETAIL - REFER TO PLUMBING FOR ACTUAL FIXTURE TYPE.

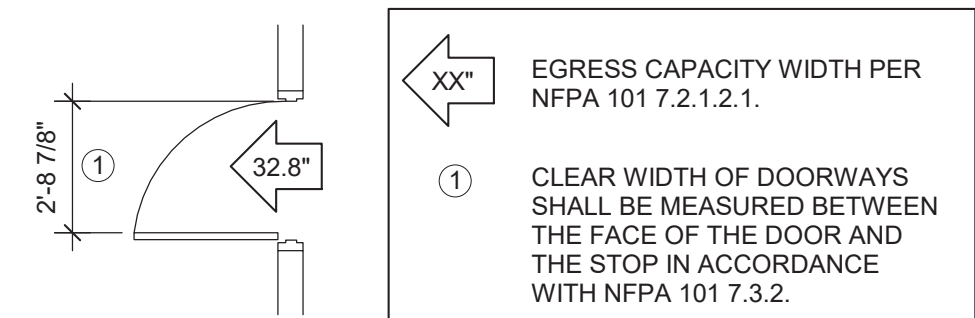
2 Water Closet Detail  
LS1.1 NOT TO SCALE



- A) 32" MINIMUM CLEARANCE FOR OPENING
- B) 60" MINIMUM CLEARANCE FOR PULL SIDE
- C) 48" MINIMUM CLEARANCE FOR PUSH SIDE
- D) 18" MINIMUM CLEARANCE FOR FRONT APPROACH
- E) 24" MINIMUM CLEARANCE FOR LATCH APPROACH
- F) 36" MINIMUM CLEARANCE FOR HINGE APPROACH
- G) 0" MINIMUM CLEARANCE FOR FRONT APPROACH
- H) 12" MINIMUM CLEARANCE FOR FRONT APPROACH WITH CLOSER
- I) 24" MINIMUM CLEARANCE FOR LATCH APPROACH

NOTE: DOORS SHALL COMPLY WITH USDOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PART 404

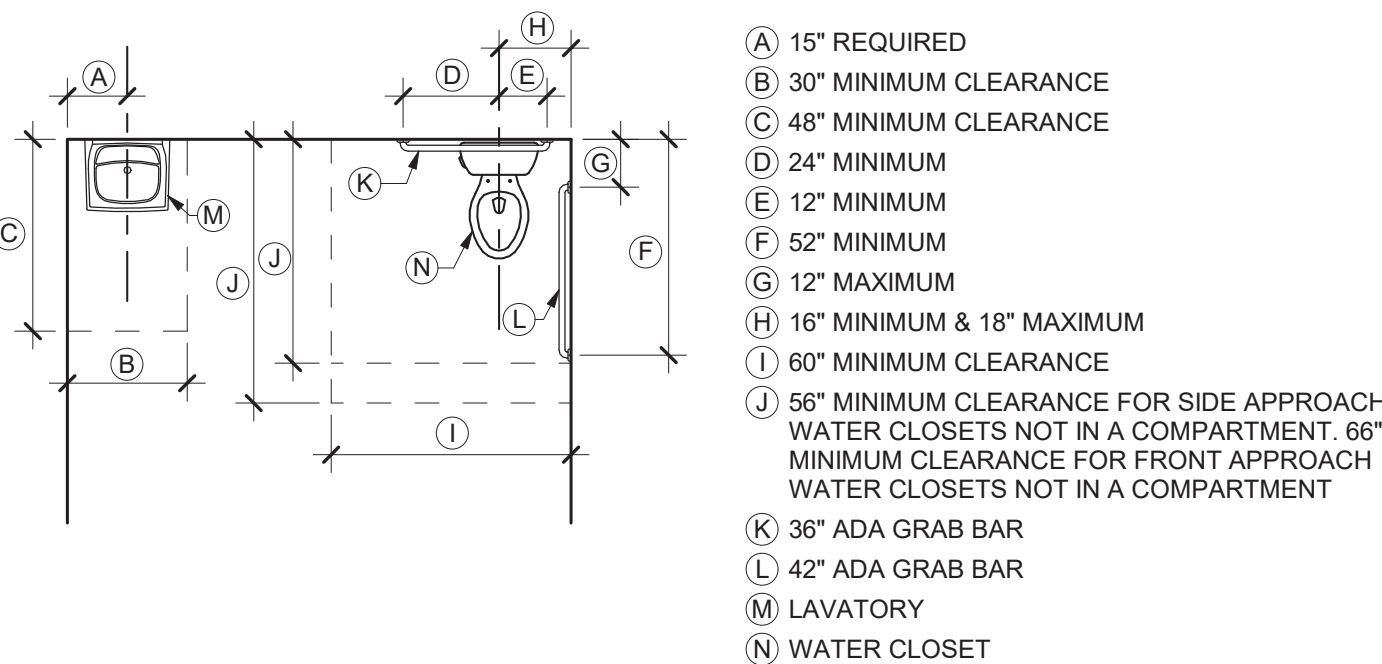
3 ADA Door Clearance  
LS1.1 NOT TO SCALE



EGRESS CAPACITY WIDTH PER NFPA 101 7.2.1.2.1.  
CLEAR WIDTH OF DOORWAYS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP IN ACCORDANCE WITH NFPA 101 7.3.2.

NOTE: WHEN DETERMINING THE EGRESS CAPACITY WIDTH FOR SWINGING DOORS, MEASURE THE CLEAR WIDTH OF THE DOORWAY WHEN THE DOOR IS OPEN 90 DEGREES

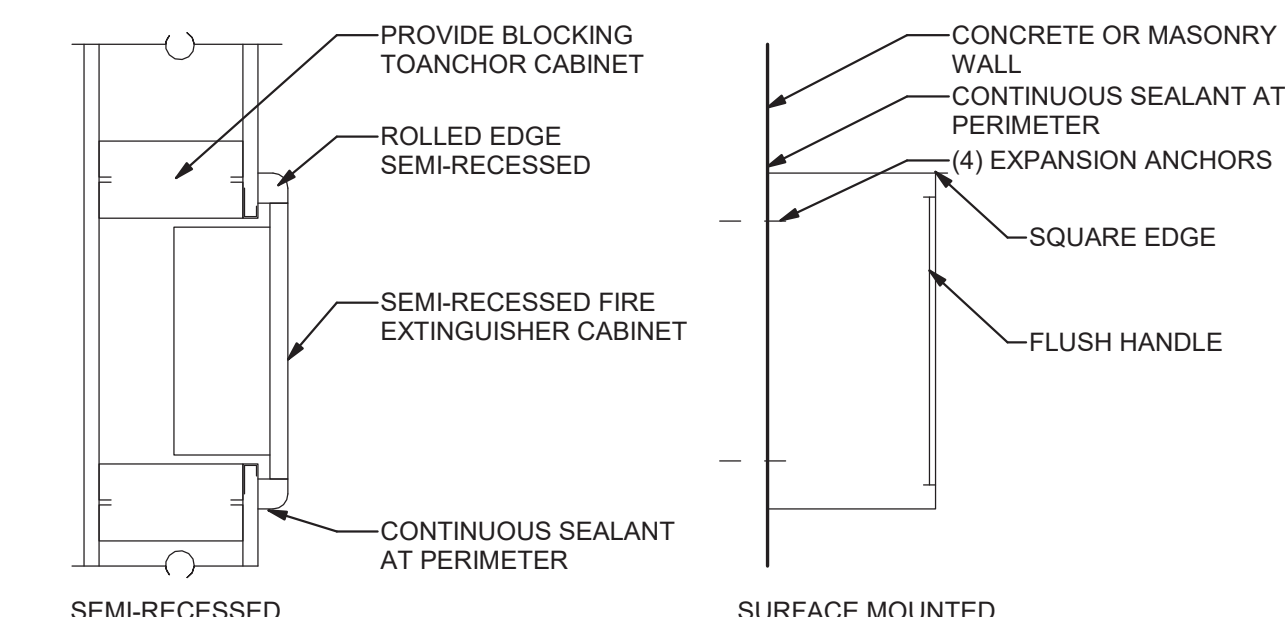
4 Door Egress Capacity  
LS1.1 NOT TO SCALE



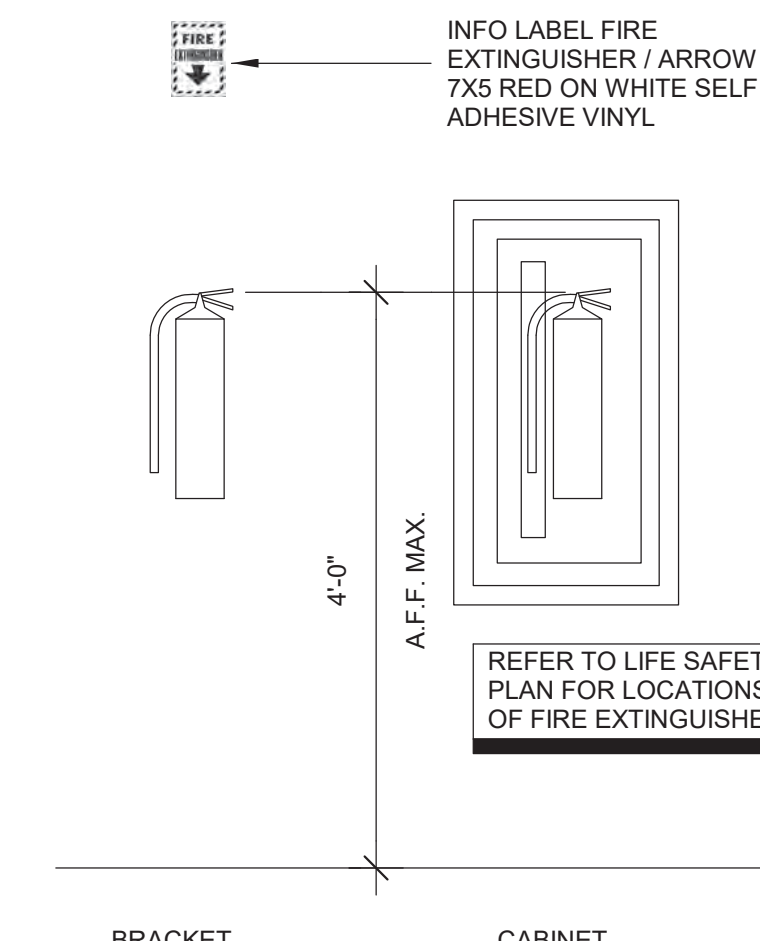
- A) 15" REQUIRED
- B) 30" MINIMUM CLEARANCE
- C) 48" MINIMUM CLEARANCE
- D) 24" MINIMUM
- E) 12" MINIMUM
- F) 52" MINIMUM
- G) 12" MAXIMUM
- H) 16" MINIMUM & 18" MAXIMUM
- I) 60" MINIMUM CLEARANCE
- J) 56" MINIMUM CLEARANCE FOR SIDE APPROACH WATER CLOSETS NOT IN A COMPARTMENT. 66" MINIMUM CLEARANCE FOR FRONT APPROACH WATER CLOSETS NOT IN A COMPARTMENT
- K) 36" ADA GRAB BAR
- L) 42" ADA GRAB BAR
- M) LAVATORY
- N) WATER CLOSET

NOTE: PER USDOJ 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PART 604.2 LOCATION, THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES (405 MM) MINIMUM TO 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.3.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

5 ADA Accessible Fixture Dimensions  
LS1.1 NOT TO SCALE



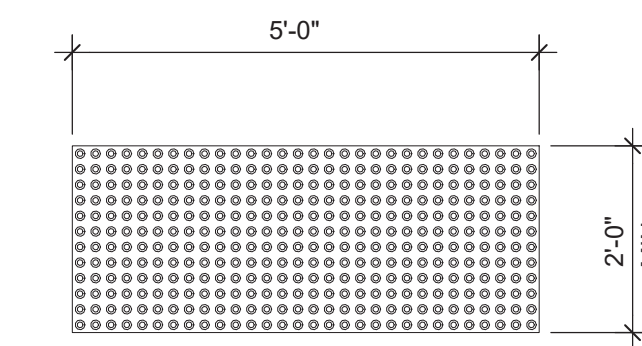
6 Fire Extinguisher Cabinet Detail  
LS1.1 NOT TO SCALE



7 Fire Extinguisher Detail  
LS1.1 NOT TO SCALE

Code Review Summary		
BUILDING OCCUPANCY:	RESIDENTIAL R-2	(IBC 304.1)
ALLOWABLE HEIGHTS AND AREAS:	75 FT HEIGHT 64,000 SF./STORY (SINGLE STORY)	(IBC TABLE 503) (IBC TABLE 503)
CONSTRUCTION TYPE:	IIB, SPRINKLERED	(IBC TABLE 503)
REQUIRED PROTECTED ASSEMBLIES:	STRUCTURAL FRAME = 0 HOUR FLOOR CONSTRUCTION = 0 HOURS (INCLUDING SUPPORTING BEAMS AND JOISTS) ROOF CONSTRUCTION = 0 HOUR (INCLUDING SUPPORTING BEAMS AND JOISTS) EXTERIOR BEARING WALLS = 0 HOUR EXTERIOR NON-BEARING WALLS = 0 HOUR INTERIOR BEARING WALLS = 0 HOUR AND PARTITIONS	(IBC TABLE 601) (IBC TABLE 601) (IBC TABLE 601) (IBC TABLE 601) (IBC TABLE 601)
RATING EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE:	LESS THAN 5 FT = 1 HOUR 5 FT TO LESS THAN 10 FT = 1 HOUR 10 FT TO LESS THAN 30 FT = 0 HOUR 30 FT OR GREATER = 0 HOUR	(IBC TABLE 602) (IBC TABLE 602) (IBC TABLE 602)
INTERIOR WALLS AND PARTITIONS:	OCCUPANCY SEPARATION = 1 HOUR STORAGE OCCUPANCY SEPARATION = 1 HOUR SHAFT ENCLOSURE = 1 HOUR (UP TO 4 STORIES) 2 HOUR (UP TO 4 STORIES)	(NFPA101 38.3.2.1) (NFPA101 38.3.2.1) (GDL 300-3.6.19)
INTERIOR FINISH REQUIREMENTS:	FLAME SPREAD INDEX EXIT PASSAGEWAYS EXIT ACCESS CORRIDORS ROOMS	A A or B A, B or C
REQUIRED EXIT CAPACITIES:	0.2 INCHES PER PERSON (LEVEL COMPONENTS) 0.3 INCHES PER PERSON (STAIRS)	(NFPA101 7.3.3.1) (NFPA101 7.3.3.1)
REQUIRED NUMBER OF EXITS:	2 (GENERAL REQUIREMENT)	(NFPA101 7.4.1.1)
OCCUPANCY LOAD:	RESIDENTIAL (R-2) STORAGE (S-2) BUSINESS (B) ASSEMBLY (A-3)	200 SF/PERSON 500 SF/PERSON 150 SF/PERSON 15 NET SF/PERSON
FACTORS:	COMMON PATH LIMIT DEAD-END LIMIT TRAVEL DISTANCE LIMIT	= 50 FT (< 30 OCC. LOAD) = 50 FT (>30 OCC. LOAD) = 200 FT (SPRINKLERED)
TRAVEL DISTANCE REQUIREMENTS:		(NFPA101 28.2.5.4) (NFPA101 28.2.5.6) (NFPA101 28.2.6)
SEPARATION OF EXITS:	WHERE TWO EXIT ACCESS DOORS ARE REQUIRED, THEY SHALL BE PLACED AT A DISTANCE FROM ONE ANOTHER NOT LESS THAN ONE-HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED, MEASURED IN A STRAIGHT LINE BETWEEN THE NEAREST EDGE OF THE EXIT DOORS OR EXIT ACCESS DOORS.	
DOOR REQUIREMENTS:	MAXIMUM WIDTH MINIMUM WIDTH MINIMUM HEIGHT CLEAR OPENING FORCE TO OPEN	= 48 IN. = 32 IN. = 80 IN. = 32 IN. = 15 LBF. (LATCH RELEASE) = 30 LBF. (SET IN MOTION) = 15 LBF. (SWING)
CORRIDOR REQUIREMENTS:	WIDTH = 44 IN. MINIMUM HEIGHT = 80 IN. CLEAR RATING = NOT REQUIRED	(IBC 1017.2) (IBC 1017.2) (NFPA101 38.3.6.1)
PORTABLE FIRE EXTINGUISHERS:	75 FT TRAVEL DISTANCE MAX.	(NFPA101)
DETECTION AND NOTIFICATION:	INITIATION: MANUAL FIRE DETECTION SYSTEM OCCUPANT NOTIFICATION: AUTOMATIC	(NFPA101 38.3.4.1)
EMERGENCY EXIT LIGHTING REQUIREMENTS:	10 SECOND DELAY MAX. DURATION = 1 1/2 HOURS MIN.	(NFPA101 7.9.2) (NFPA101 7.9.2)

NOTE: THESE DETAILS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO CONVEY CLEARANCE CHARACTERISTICS AND MOUNTING HEIGHTS TO COMPLY WITH 2010 ADA STANDARDS



TEXTURE SHALL CONTRAST WITH THAT OF THE SURROUNDING SURFACE.  
DETECTABLE WARNING SHALL BE IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

8 Detectable Warning Detail  
LS1.1 NOT TO SCALE

Code Review Notes

- SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE CHAPTER 5-2.1.4.
- EXIT DOORS SHALL NOT BE SUBJECT TO THE USE OF A KEY OR REQUIRE SPECIAL KNOWLEDGE TO OPERATE PER NFPA 101 LIFE SAFETY CODE CHAPTER 7-2.1.5.1.
- SIGNS, LOCATION, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.
- ALL CONCEALED INSULATING MATERIALS WITHIN WALL, FLOORS, ROOF AND CEILING CAVITIES SHALL HAVE A FLAME SPREAD INDEX OF LESS THAN 25 AND A SMOKE DEVELOPED INDEX OF LESS THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- SELF CLOSING DEVICES SHALL BE PROVIDED ON DOORS IN A MEANS OF EGRESS AND SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE CHAPTER 7-2.1.8.
- (FIRE EXTINGUISHERS) SHALL BE LOCATED PER THE REQUIREMENTS OF NFPA 10, TABLE 3-2.1. (LOW HAZARD). THE SIZE SHALL BE A MINIMUM OF 2 A 10 BC (REFER TO PLANS) AND SHALL BE INSTALLED AT A MAXIMUM OF 48' ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE. 1 REQUIRED PER 3,000 S.F. OR 75 FEET OF TRAVEL DISTANCE.
- PLANS FOR FIRE PROTECTION SPRINKLER PIPING, INCLUDING COMPLETE SEISMIC SUPPORT DETAILS, SHALL BE APPROVED BY THE CHEROKEE COUNTY FIRE MARSHALS OFFICE FOR COMPLIANCE WITH IBC SECTION 903 AND NFPA 13 PRIOR TO INSTALLATION. SPRINKLER SHOP DRAWINGS SHOWING PIPING LOCATIONS AND HEAD LAYOUT SHALL BE AVAILABLE ON JOB SITE AT ALL TIMES. ANY FIRE SPRINKLER PLAN INCLUDED IN THIS SET OF DOCUMENTS ARE FOR REFERENCE ONLY. NOT FOR PERMIT.
- (COMBUSTIBLE INTERIOR FINISH PRODUCTS) SHALL BE PROVIDED PER THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE, PROVIDE VERIFICATION THE TIME OF FINAL INSPECTION THAT THE PRODUCTS COMPLY WITH THE REQUIREMENTS.
- (EXPOSED PIPES AND SURFACE) HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- THE FLOOR LEVEL SHALL BE THE SAME ON BOTH SIDES OF THE DOOR. THE ELEVATION SHALL BE MAINTAINED FOR A DISTANCE EQUAL TO THE WIDTH OF THE WIDEST LEAF OF THE DOORS. NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SECTION 7.2.1.3.
- PANIC HARDWARE SHALL BE PROVIDED FOR ALL EXIT DOORS PER THE REQUIREMENTS OF NFPA 101 LIFE SAFETY CODE CHAPTER 7, SECTION 7.2.1.7.
- EXIT SIGNS COMPLYING WITH NFPA 101 LIFE SAFETY CODE CHAPTER 7, SECTION 7.10, SHALL BE INSTALLED. ADDITIONAL SIGNAGE MAY BE REQUIRED UPON FIELD INSPECTION.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 404.2.3: CLEAR WIDTH. DOOR OPENINGS SHALL BE MEASURED AT A CLEAR WIDTH OF 32 INCHES (815 MM). CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP. WITH THE DOOR OPEN 90 DEGREES, OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WITH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM) EXCEPTIONS: 1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (16 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 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 POUNDS (22.2 N) MAXIMUM.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 703.1: GENERAL SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 211.2: MINIMUM NUMBER. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.1 THROUGH 602.6 AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.7. EXCEPTION: WHERE A SINGLE DRINKING FOUNTAIN COMPLIES WITH 602.1 THROUGH 602.6 AND 602.7, IT SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 307.1: GENERAL. PROTRUDING OBJECTS SHALL COMPLY WITH 307.307.2 PROTRUSIONS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH. EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (115 MM) MAXIMUM.
- US DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN: SECTION 702.1: GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE ALDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 OR SECTIONS 7.4 AND 7.5 OF NFPA 72.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, PNEUMATIC DOORS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE OR SMOKE BARRIERS SHALL BE PROTECTED WITH A SYSTEM CAPABLE OF MAINTAINING THE FIRE OR SMOKE BARRIER. THIS SYSTEM MUST BE UL APPROVED.
- ALL PENETRATIONS OF A FIRE OR SMOKE BARRIER SHALL BE PROVIDED WITH A LISTED FIRE / SMOKE DAMPER OR THROUGH PENETRATION SYSTEM AS REQUIRED BY NFPA AND IN ACCORDANCE WITH APPROVED UL DESIGNS. ALL SUPPLY DUCTS WITHIN OR THROUGH A RATED ASSEMBLY SHALL BE METAL.
- DOORS SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SECTION 7.2.1.
- FIRE COMPARTMENTS SHALL BE FORMED WITH FIRE BARRIERS THAT ARE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL, FROM ONE FIRE BARRIER TO ANOTHER, OR A COMBINATION THEREOF, INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES, SUCH AS THOSE FOUND ABOVE A CEILING, INCLUDING INTERSTITIAL SPACES. (NFPA 101 CHAPTER 6 SECTION 6.2.2.2)
- FIRE PARTITIONS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE OR TO THE FIRE-RESISTANCE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY ABOVE, AND SHALL BE SECURELY ATTACHED THERETO. IF THE PARTITIONS ARE NOT CONTINUOUS TO THE SHEATHING, DECK OR SLAB, AND WHERE CONSTRUCTED OF COMBUSTIBLE CONSTRUCTION, THE SPACE BETWEEN THE CEILING AND THE SHEATHING, DECK OR SLAB ABOVE SHALL BE FIREBLOCKED OR DRAFTSTOPPED IN ACCORDANCE WITH SECTIONS 717.2 AND 717.3 AT THE PARTITION LINE. (IBC CHAPTER 7 SECTION 708.4)
- SMOKE DETECTORS ARE TO BE INSTALLED PER THE REQUIREMENTS OF THE OCCUPANCY CHAPTER OF NFPA 101 LIFE SAFETY CODE.
- CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RESISTANT RATED WALLS (AND CORRESPONDING FIRE RESISTANCE RATING) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS AND SHAFT ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING: ( ) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND (IFC SECTION 703.5 OF THE GA STATE AMENDMENTS).
- AT ALL WALL TO CEILING/ROOF STRUCTURE JOINTS, AT FIRE RATED ASSEMBLIES PROVIDE ACRYLIC FIRE STOP SEALANT - REFER TO SPECIFICATIONS.
- MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT.
- RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE-RESISTANCE RATING IS NOT REDUCED.
- DURING ITS SWING, ANY DOOR IN A MEANS OF EGRESS SHALL LEAVE NOT LESS THAN ONE-HALF OF THE REQUIRED WIDTH OF AN AISLE, CORRIDOR, PASSAGEWAY, OR LANDING UNOBSTRUCTED AND SHALL NOT PROJECT MORE THAN 7 IN. INTO THE REQUIRED WIDTH OF AN AISLE, PASSAGEWAY, OR LANDING, WHERE FULLY OPEN. DOORS SHALL NOT OPEN DIRECTLY ONTO A STAIR WITHOUT A LANDING. THE LANDING SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE DOOR. (NFPA 101 CHAPTER 7 SECTION 7.2.1.4.4)
- CARBON MONOXIDE ALARMS AND DETECTION DEVICES SHALL BE INSTALLED IN SLEEPING AREAS PER NFPA 26.3.4.6

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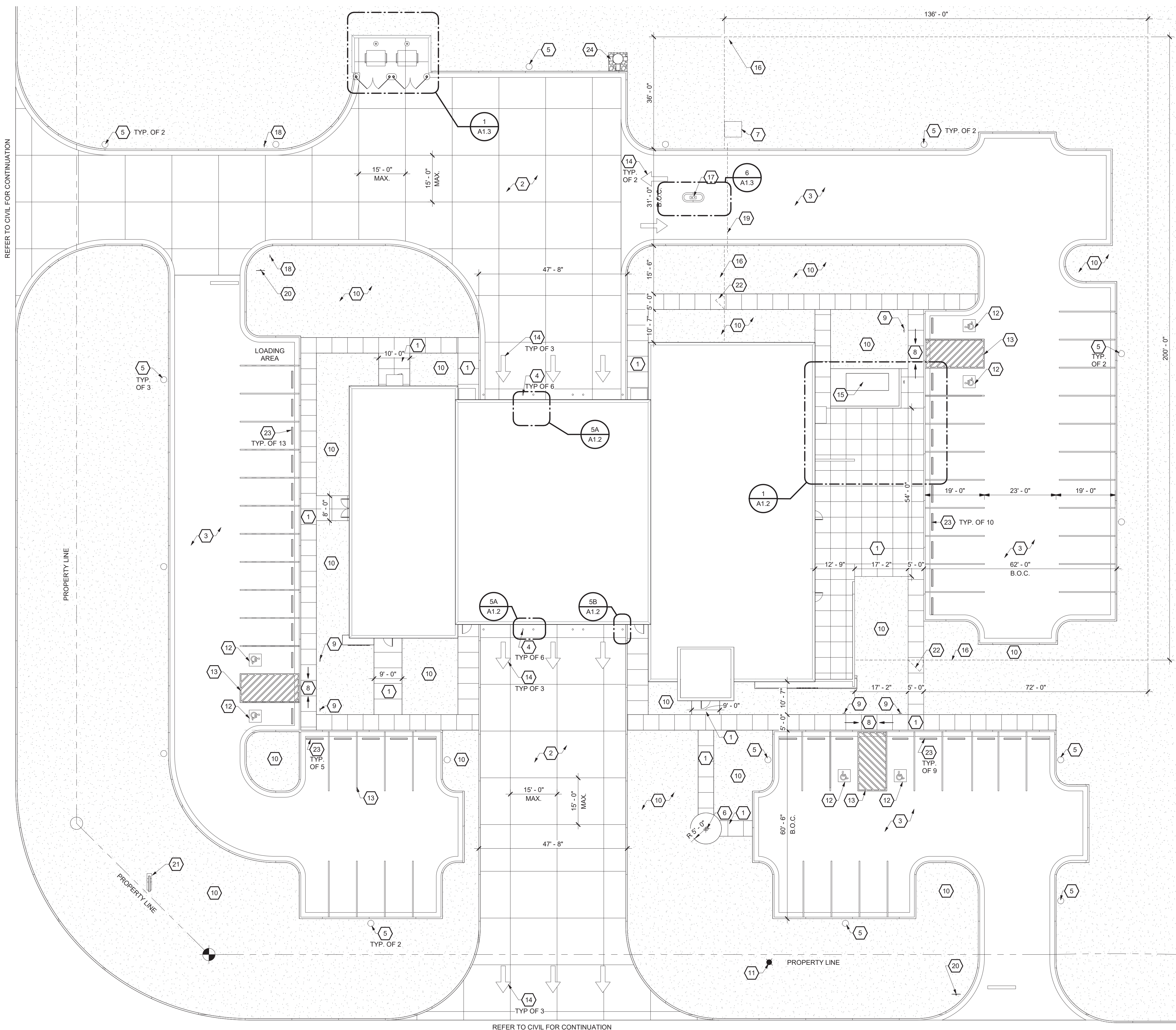
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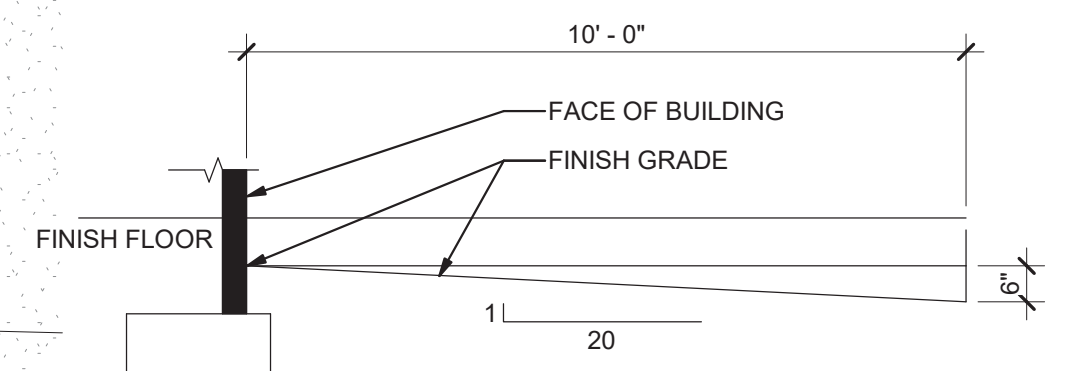






- ### Plaza General Notes
- THE EXISTENCE AND LOCATION OF SITE IMPROVEMENTS, UTILITIES, AND OTHER CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING WORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF ITEMS AFFECTING THE WORK.
  - BEFORE CONSTRUCTION, VERIFY THE LOCATION AND POINTS OF CONNECTION OF ALL UTILITY SERVICES.
  - BEFORE CONSTRUCTION, VERIFY THE LOCATION AND INVERT ELEVATION AT POINTS OF CONNECTION OF SANITARY SEWER, STORM SEWER, AND WATER-SERVICE PIPING AND UNDERGROUND ELECTRICAL SERVICES.
  - REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS: IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS, SUBMIT A REQUEST FOR INFORMATION TO ARCHITECT. INCLUDE A DETAILED DESCRIPTION OF PROBLEM ENCOUNTERED, TOGETHER WITH RECOMMENDATIONS FOR CHANGING THE CONTRACT DOCUMENTS.
  - CONTRACTOR SHALL COORDINATE ANY INTERFERENCES WITH NEW UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO: POWER, TELEPHONE, WATER, SEWER, GAS, STORM DRAINAGE, FUEL LINES, GREASE TRAPS, FUEL TANKS, FIBER OPTIC, CABLE TV, ETC.
  - CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO NEW AND EXISTING DISTURBED ITEMS TO MATCH FINAL OR FINISH GRADE OF PAVEMENT, SWALES, SIDEWALKS, OR LANDSCAPED AREAS. ITEMS INCLUDE BUT ARE NOT LIMITED TO: VALVE BOXES, MANHOLE CASTINGS, SEWER, POWER, TELEPHONE, DRAINAGE, FIBER OPTIC, ANTENNA CABLING, AND DRAINAGE INLETS, ETC.
  - CONTRACTOR SHALL COORDINATE DOWNSPOUTS WITH NEW CONSTRUCTION AND GRADES. DOWNSPOUTS SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING, AND SHALL DISCHARGE ONTO SPLASHBLOCKS WHERE NOT PIPED INTO STORM LEADER.
  - ALL FINISH GRADES SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS. REFER TO DETAIL 2/A1.1.
  - PROVIDE EXPANSION JOINTS WHERE CONCRETE WALK IS ADJACENT TO CONCRETE CURBS, BUILDING SLAB, AND AT 40'-0" MAX.

- ### Plaza Plan Keynotes
- 4" THICK 3000 PSI CONCRETE SIDEWALK WITH 6x6 W1.4 WWF - TYPICAL WIDTH 5'-0" U.N.O. REFER TO DETAILS A1.2
  - 8" THICK HEAVY DUTY CONCRETE DRIVE - REFER TO CIVIL
  - MEDIUM DUTY ASPHALT PAVEMENT - REFER TO CIVIL
  - 6" DIAMETER STEEL BOLLARD - REFER TO A1.2
  - 4'-0" HIGH CONCRETE SITE LIGHTING BASE - REFER TO ELECTRICAL
  - FLAG POLE - REFER TO A1.2
  - EQUIPMENT PAD - GC TO COORDINATE FINAL SIZE AND LOCATION WITH GATE EQUIPMENT - REFER TO A1.3
  - ADA ACCESSIBLE RAMP WITH DETECTABLE WARNING - REFER TO CIVIL
  - ADA PARKING SIGNAGE - REFER TO A1.2
  - LANDSCAPE AREA - REFER TO CIVIL
  - EXISTING FIRE HYDRANT - REFER TO CIVIL
  - WHITE ADA SYMBOL ON 48" SQUARE BLUE BACKGROUND
  - PARKING STRIPING - REFER TO CIVIL
  - DIRECTIONAL ARROWS - REFER TO CIVIL
  - BUILDING GENERATOR AND EQUIPMENT PAD - REFER TO STRUCTURAL AND ELECTRICAL
  - 8 FOOT TALL POWDER COATED WELDED WIRE FENCE WITH BARBED WIRE - REFER TO SPECIFICATIONS
  - CONCRETE CURB ISLAND WITH GATE OPERATION PEDESTAL - REFER TO A1.3
  - "EMERGENCY AND AUTHORIZED VEHICLES ONLY" SIGN ON METAL POST - REFER TO A1.2
  - VEHICLE SLIDE GATE - REFER TO SPECIFICATIONS
  - STOP SIGN - REFER TO CIVIL
  - MONUMENT SIGN WITH LIGHTS - REFER TO A10.1
  - 4 FOOT WIDE PEDESTRIAN GATE WITH ACCESS CONTROLS HARDWARE - REFER TO TECHNOLOGY DRAWINGS
  - CONCRETE WHEEL STOP - REFER TO CIVIL
  - NEW TRAINING FIRE HYDRANT - REFER TO CIVIL



**SITE GRADING:**  
 IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE, A 5-PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY FROM THE FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2 PERCENT WHERE LOCATED WITHIN 10 FEET OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING.

1 Plaza Plan  
 A1.1 1/16" = 1'-0"

2 Finish Grading Section  
 A1.1 Not to Scale

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GILLEM PUBLIC SAFETY BUILDING  
 2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

PLAZA PLAN, NOTES AND DETAILS  
 DESIGN: BKS  
 DRAWN: PPI  
 CHECKED: LGD

DATE	NO. DESCRIPTION	RELEASED FOR BID
10/26/21	1	

10/01/2021 DATE  
 A21-006 PROJ. NUMBER  
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 PLANNED BY THE ARCHITECT. THE  
 MANUFACTURER SHALL BE RESPONSIBLE  
 FOR THE QUALITY OF THE MATERIALS  
 THAT ARE SPECIFICALLY IDENTIFIED  
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 NOTES AND  
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NO.	DESCRIPTION	DATE	RELEASED FOR BID
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10/01/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

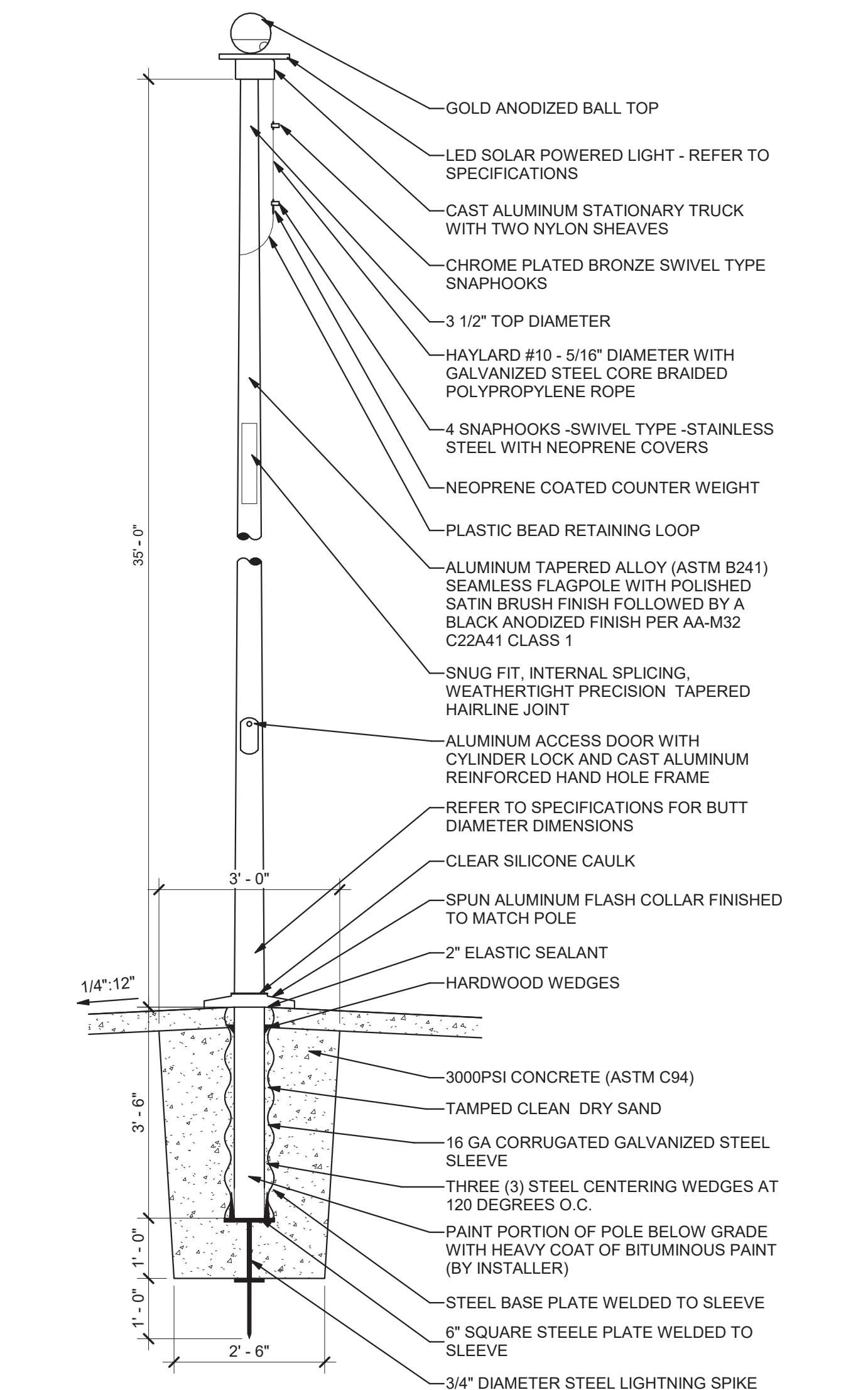
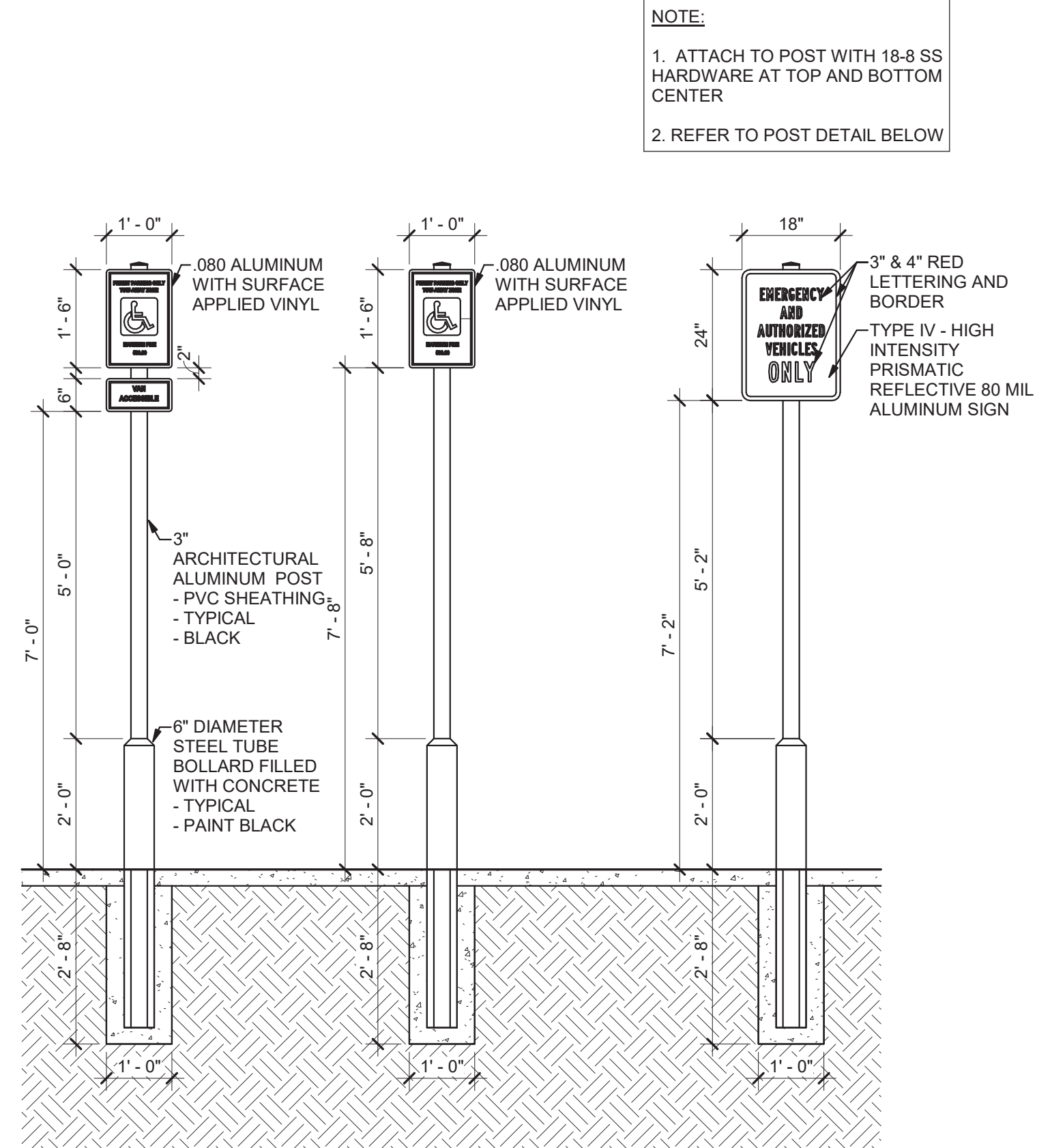
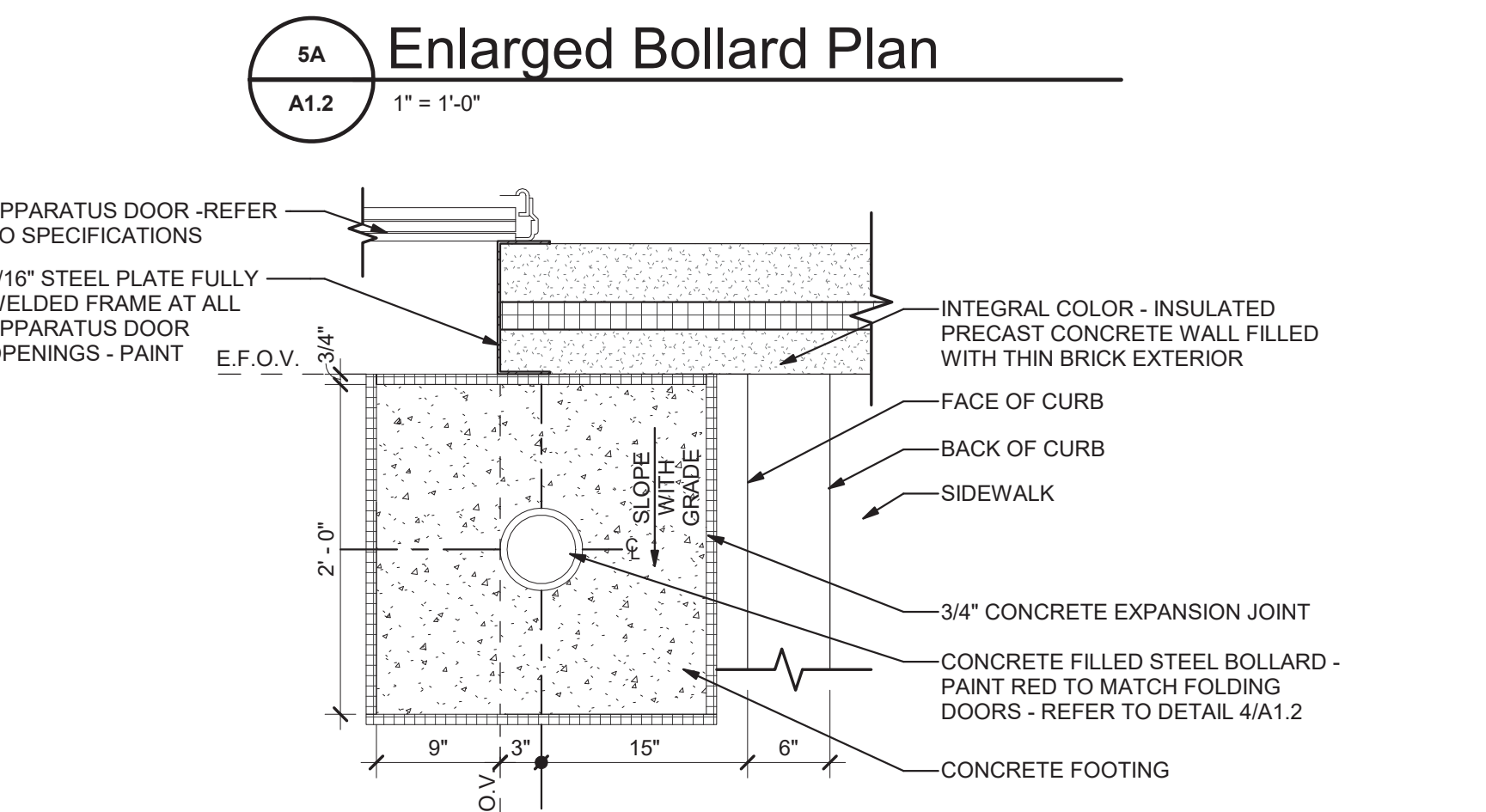
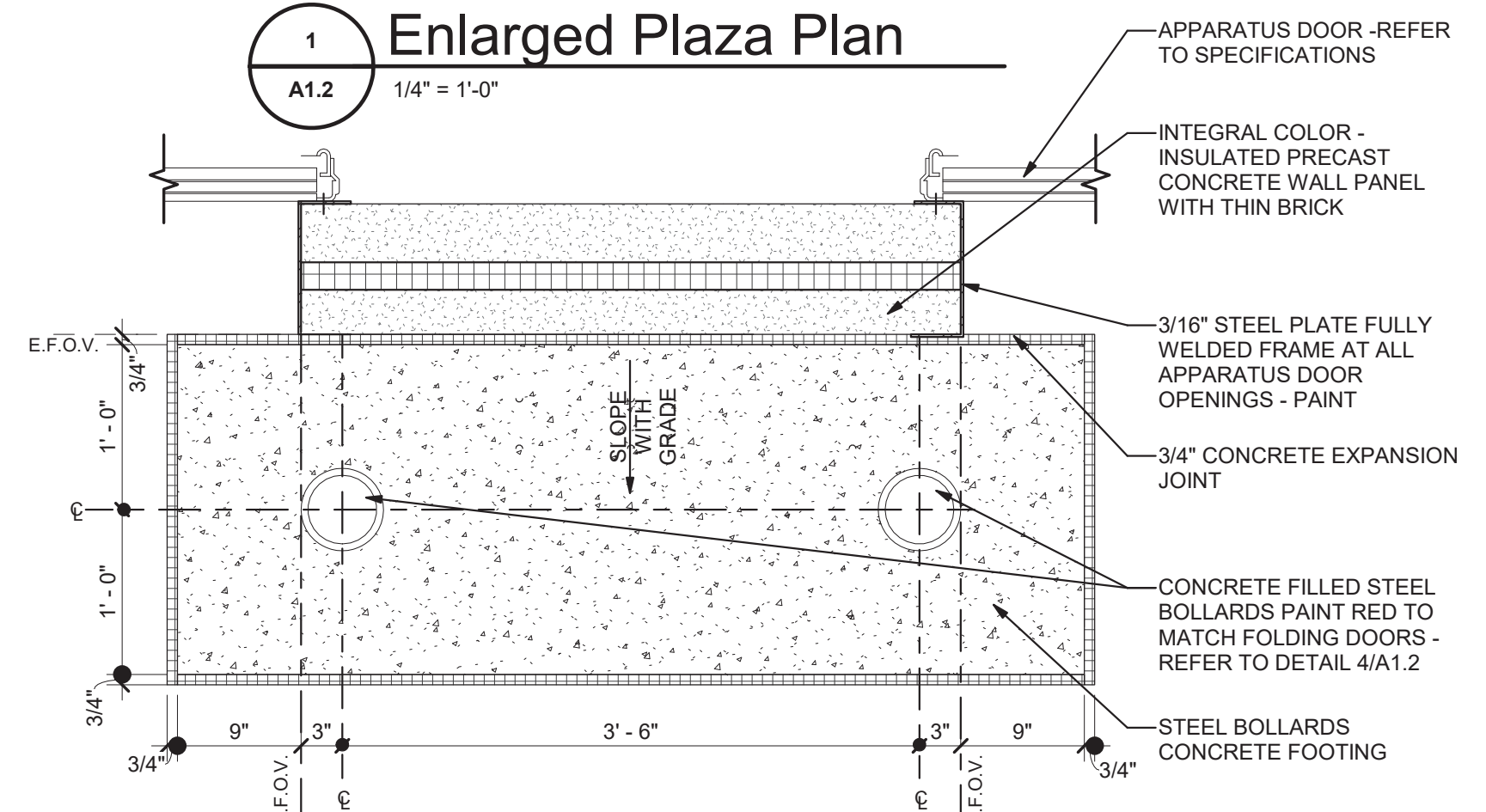
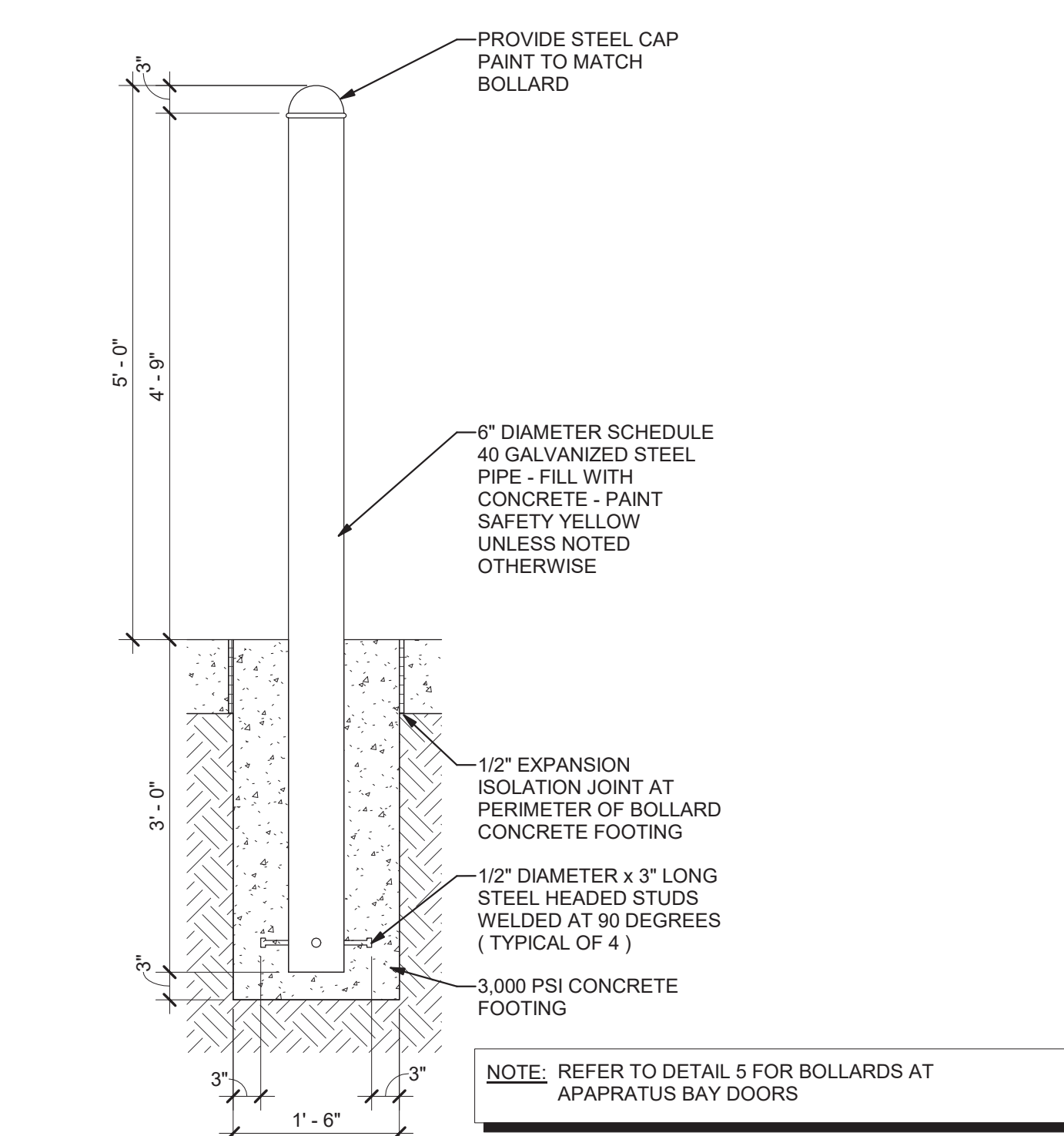
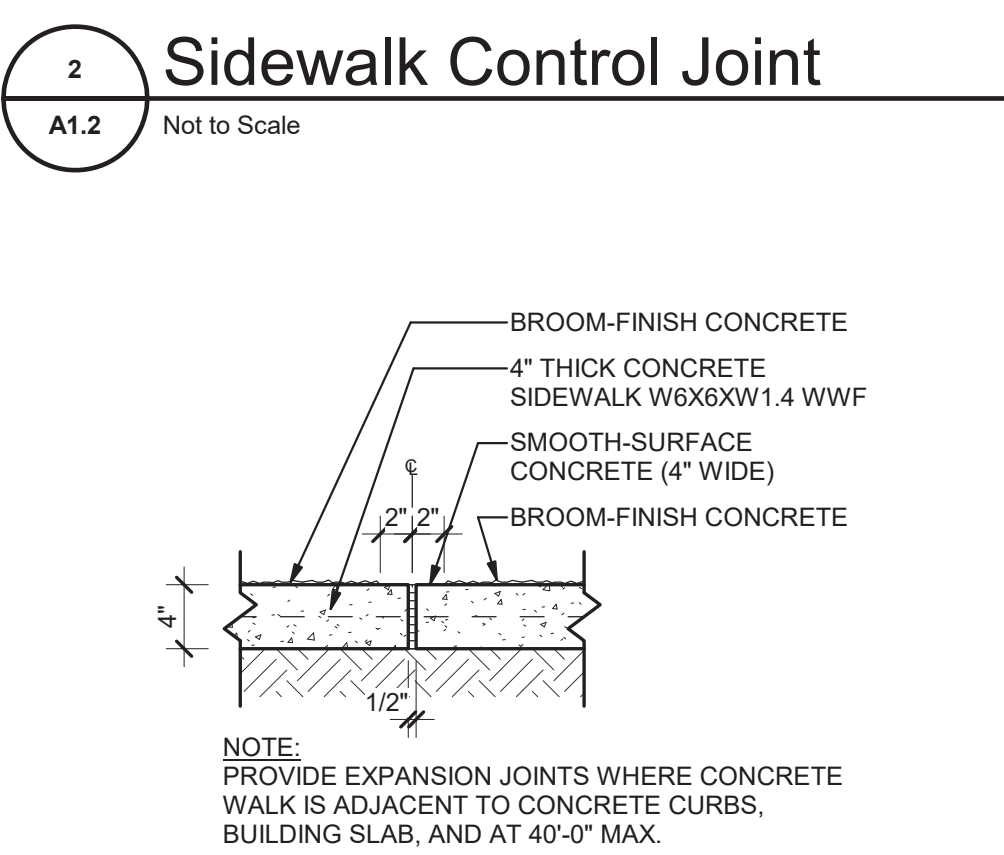
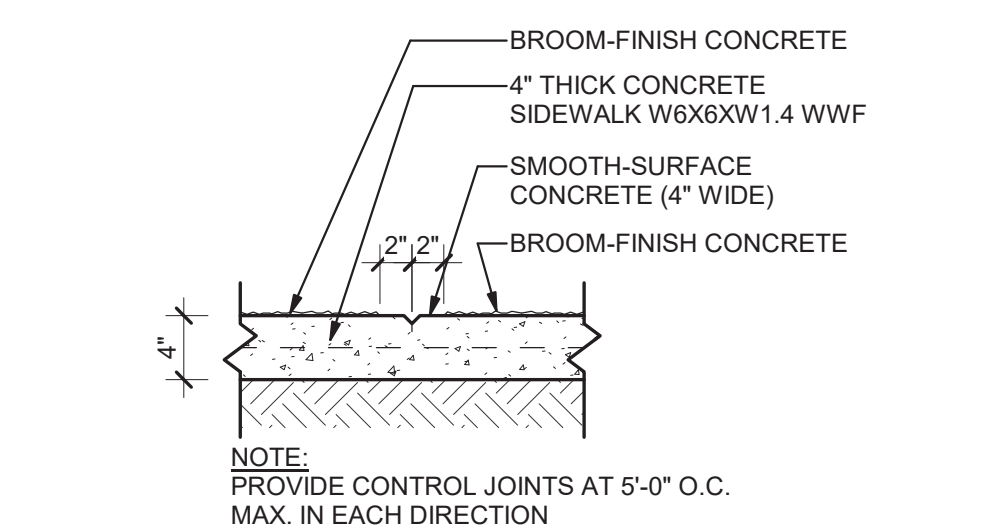
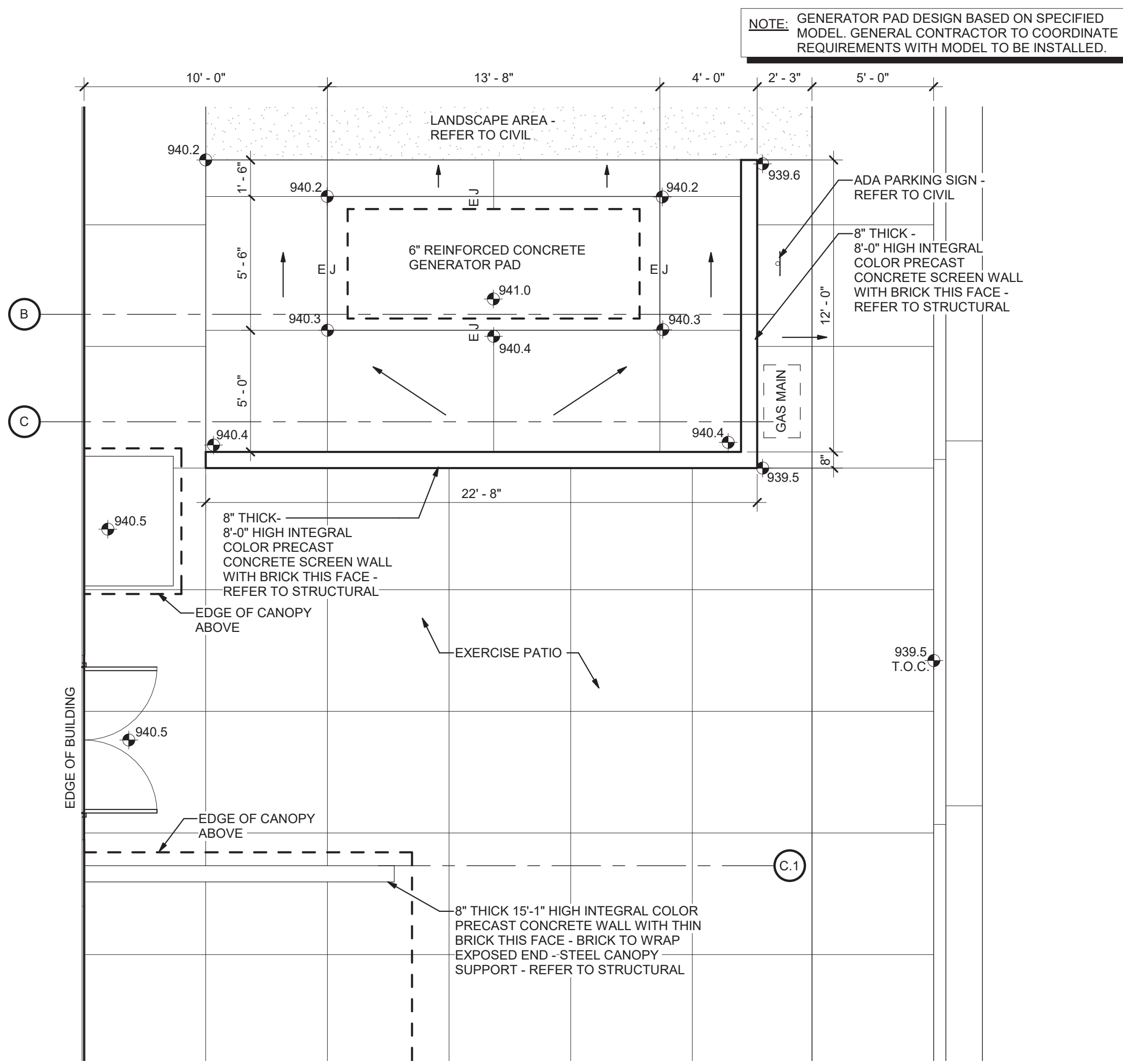
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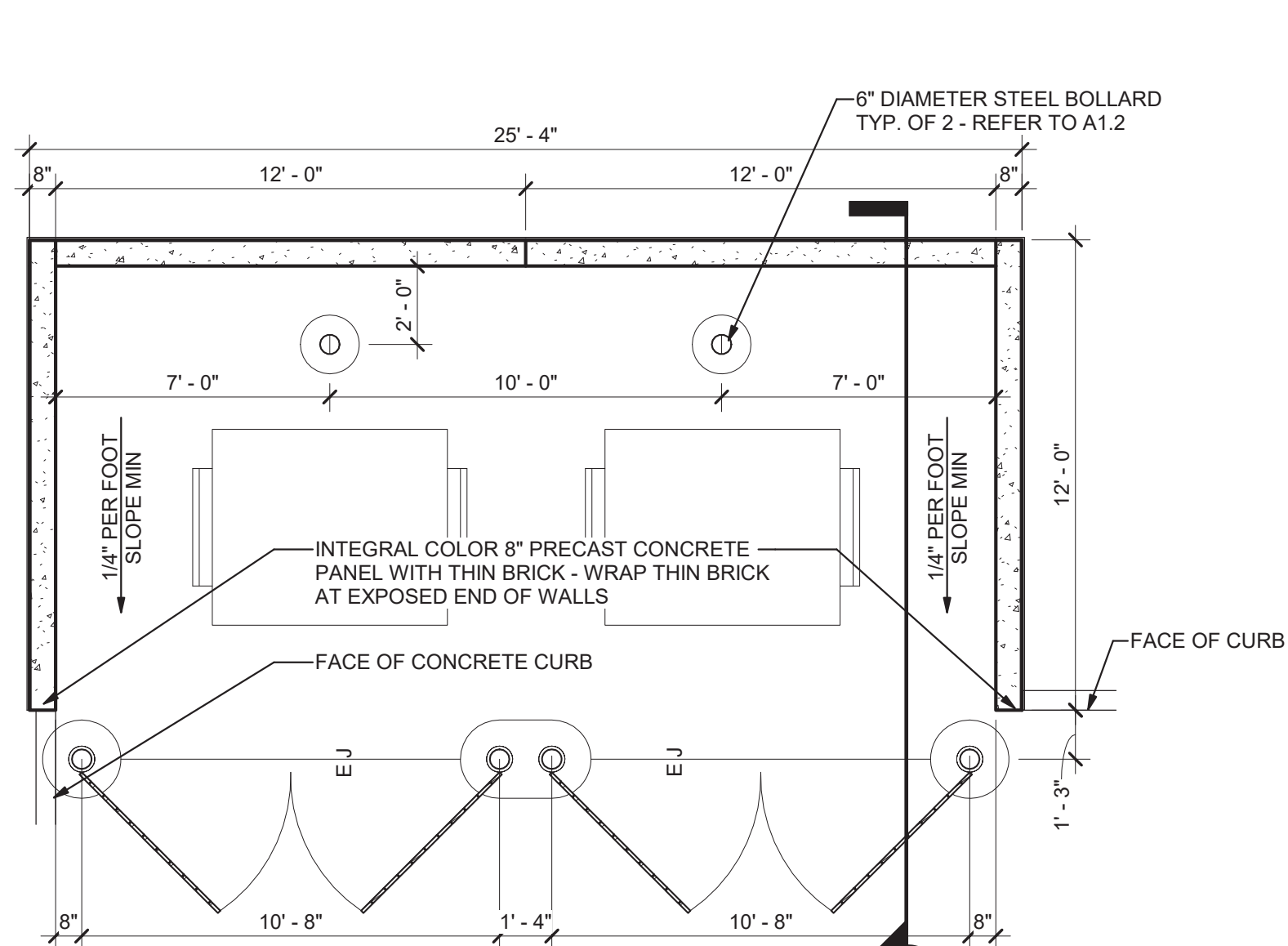
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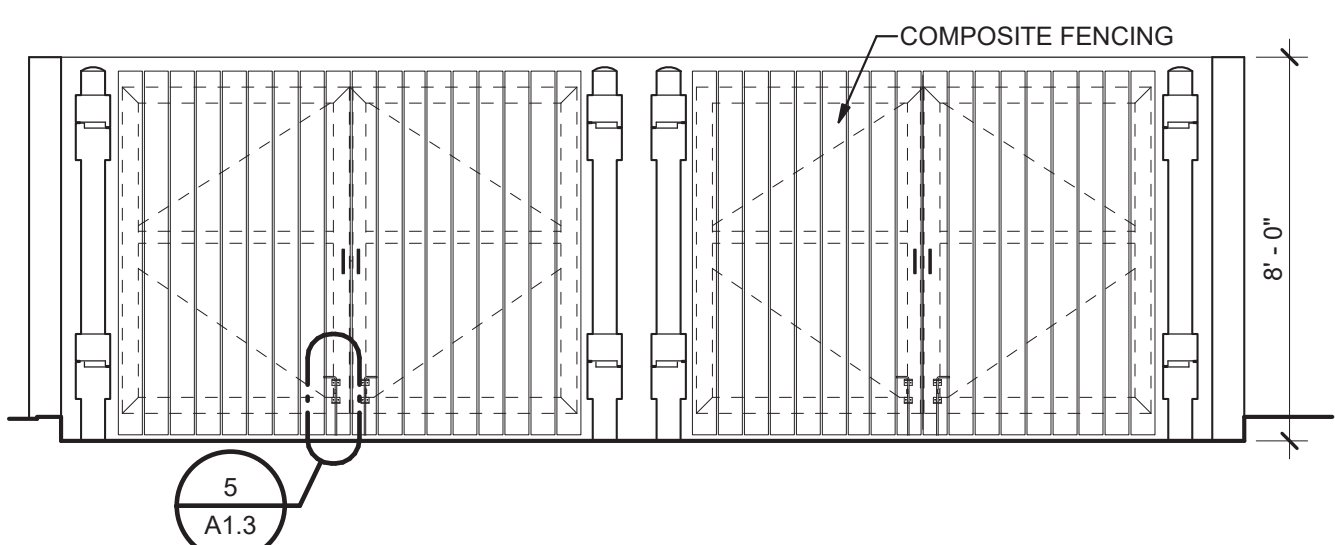
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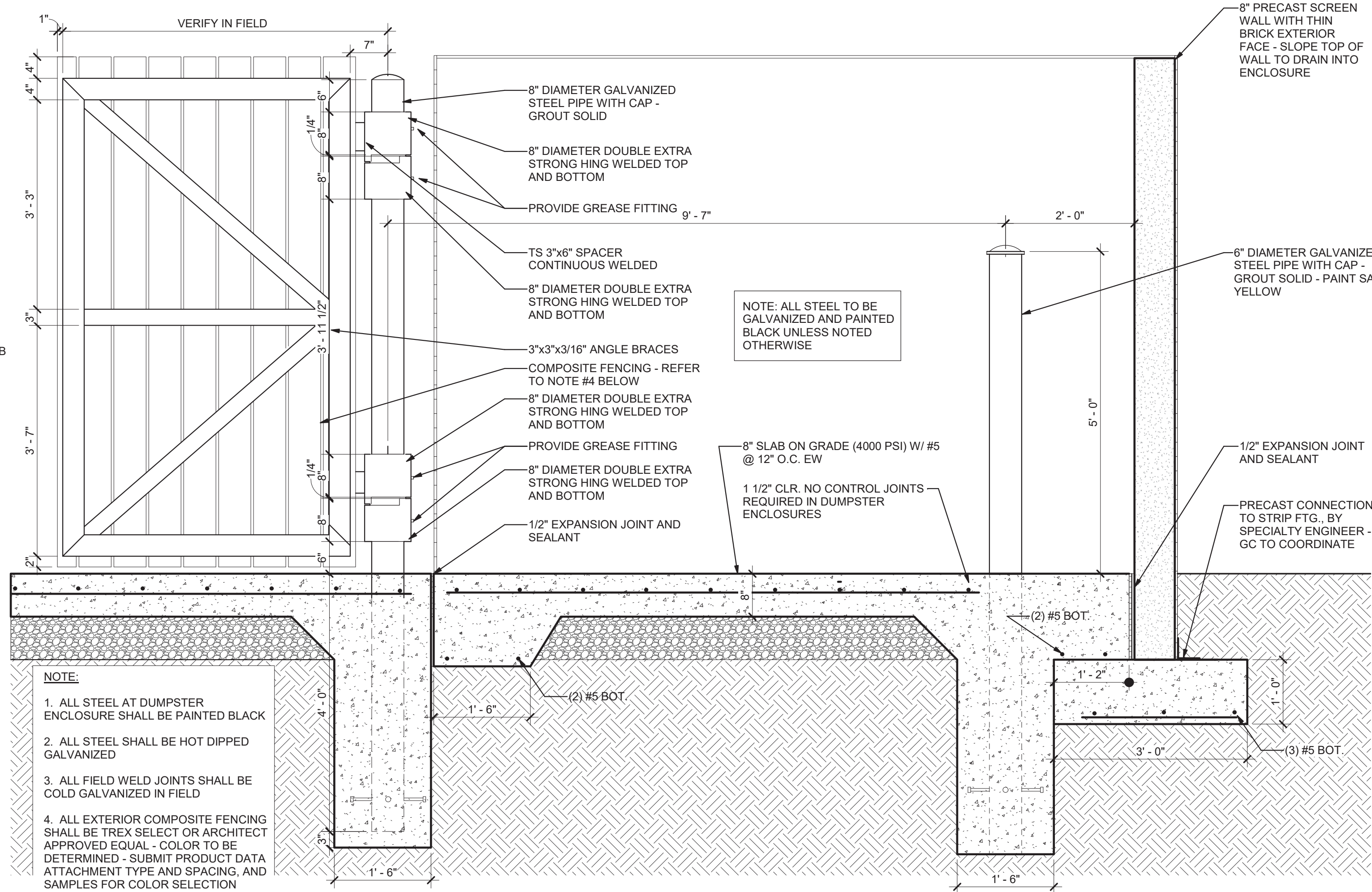




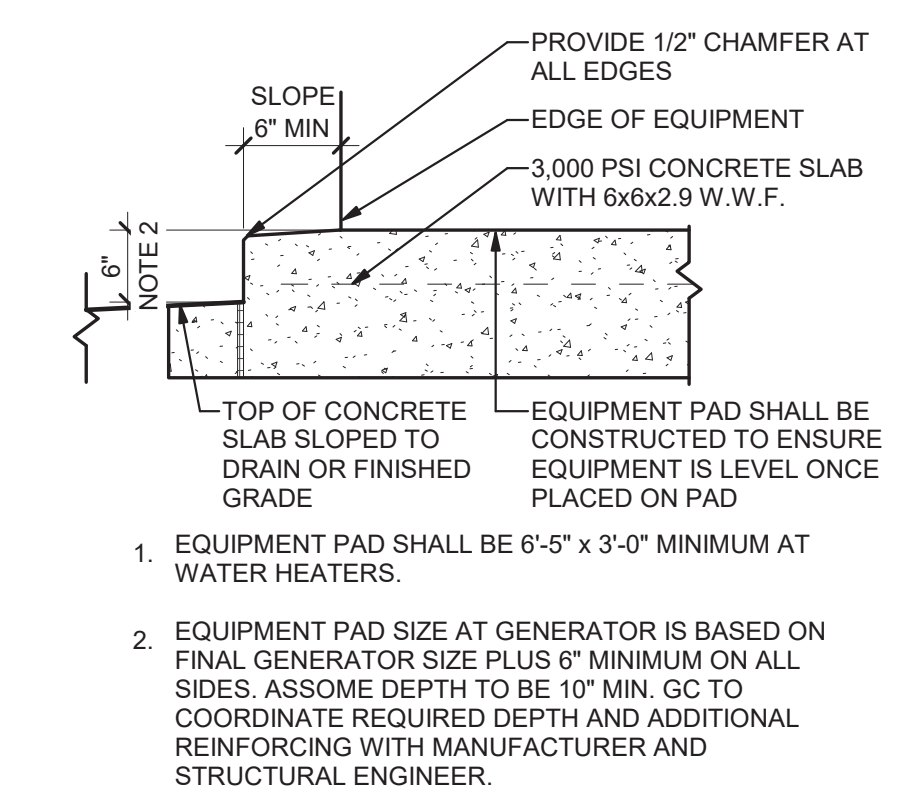
1 Enlarged Dumpster Plan  
A1.3 1/4" = 1'-0"



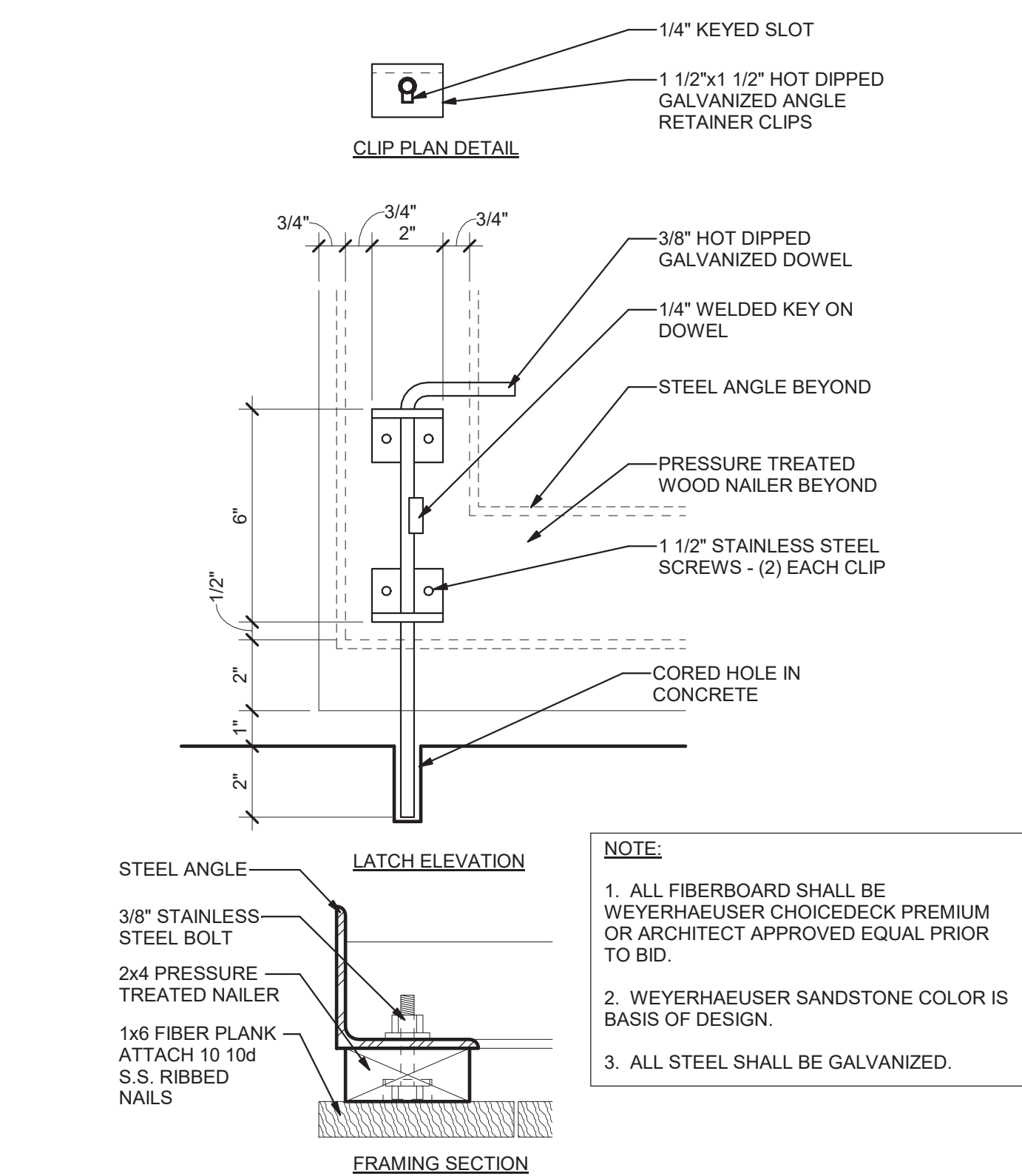
2 Dumpster Enclosure Front Elevation  
A1.3 1/4" = 1'-0"



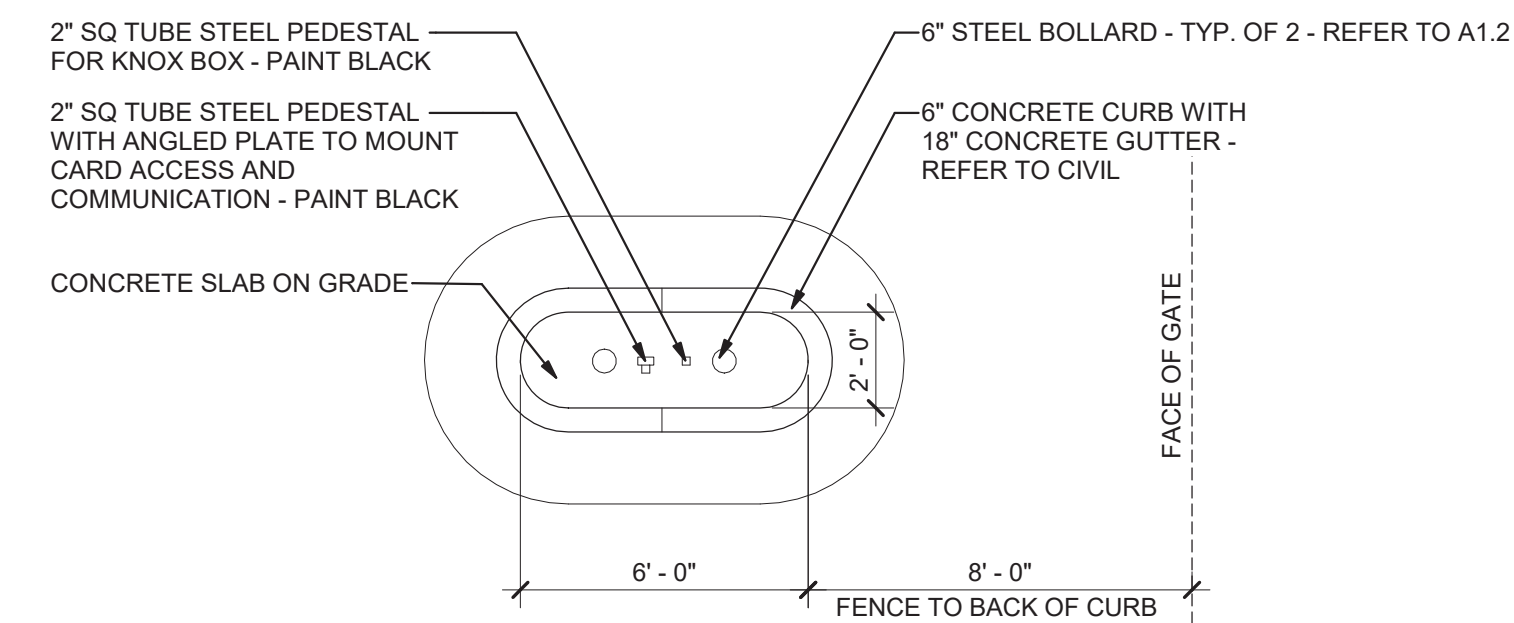
3 Dumpster Enclosure Section  
A1.3 3/4" = 1'-0"



4 Equipment Pad Detail  
A1.3 3/4" = 1'-0"



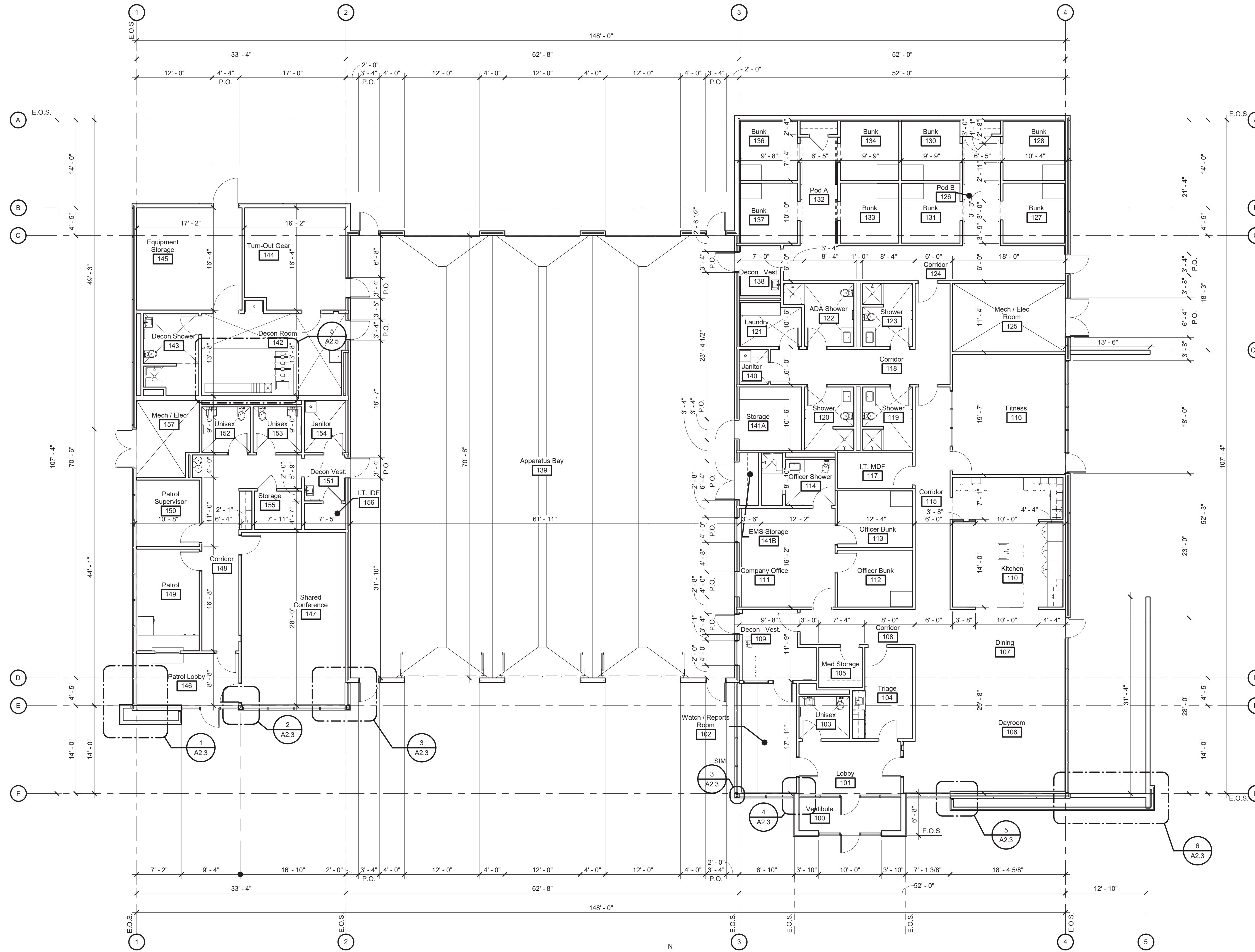
5 Swing Gate Framing Detail  
A1.3 3" = 1'-0"



6 Gate Operation Island Enlarged Plan  
A1.3 1/4" = 1'-0"

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GILLEM PUBLIC SAFETY BUILDING	2090 ANVIL BLOCK ROAD FOREST PARK, GA 30294	PROJECT	
SITE DETAILS	DESIGN: BKS DRAWN: PPI CHECKED: LGD	SHEET TITLE	
DATE: 10/26/21 NO. DESCRIPTION: 10/26/21 RELEASED FOR BID		RELEASE	
10/01/2021 DATE: A21-006 PROJ. NUMBER:	FILE NAME: FILE NUMBER:		A1.3



1 Dimension Plan  
 A2.1 1/8" = 1'-0"

- ### Dimension Notes
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION IN WRITING FROM THE ARCHITECT PRIOR TO PROCEEDING.
  - ALL DIMENSIONS SHOWN ARE REFERENCED TO FACE OF STUD, OR CONCRETE WALL.
  - GRID LINES ARE REFERENCED TO INTERIOR FACE OF PRECAST.
  - DOORS SHALL BE LOCATED 4" FROM THE FACE OF THE PERPENDICULAR ADJACENT WALL, UNLESS OTHERWISE NOTED. DIMENSION TO OUTSIDE FACE OF FRAME.
  - EXTERIOR DOORS AND WINDOWS ARE DIMENSIONED TO PRECAST CONCRETE OPENINGS.
  - DEFINITION FOR DIMENSION PLAN ABBREVIATIONS:  
 F.O.V. = EXTERIOR FACE OF MASONRY VENEER  
 E.O.S. = EDGE OF SLAB  
 P.O. = PRECAST CONCRETE OPENING

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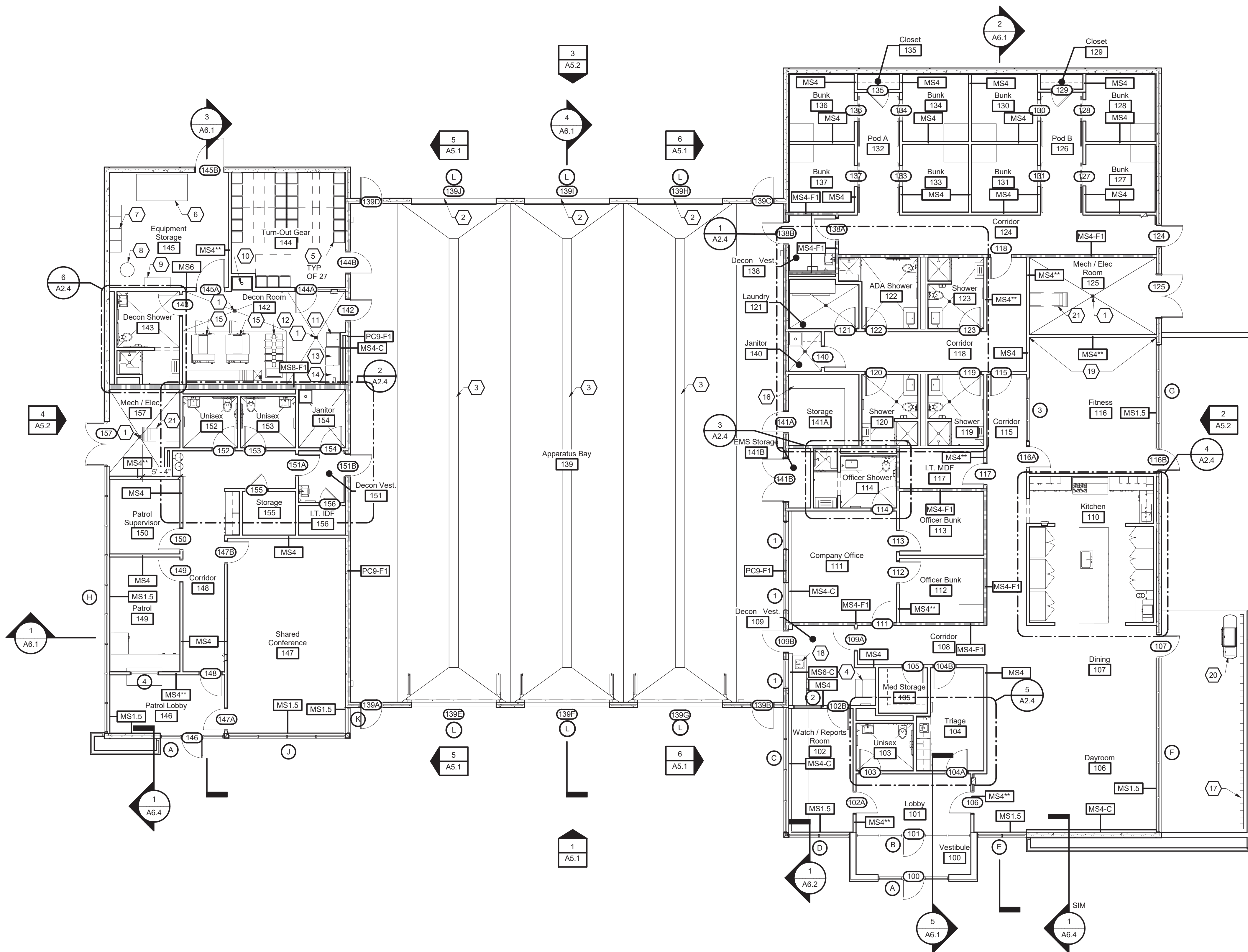
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1 Reference Plan  
1/8" = 1'-0"

### Interior Partition Notes

- IT SHALL BE ASSUMED THAT THE PARTITION TYPE EXTENDS FROM CALLOUT THROUGH OPENINGS TO END OF PARTITION OR TO ANOTHER PARTITION TYPE.
- CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS CLEARLY INDICATING LATERAL BRACING OF METAL STUD PARTITIONS EXCEEDING 9'-0" BUT DO NOT EXTEND TO STRUCTURE ABOVE. SHOP DRAWINGS SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
- INSTALL MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL RESTROOMS, BREAK ROOMS AND JANITORIAL ROOMS.
- REFER TO SHEET A9.1 FOR DOOR AND WINDOW SCHEDULE, ELEVATIONS, AND DETAILS.
- ALL FIRE RATED WALLS SHALL EXTEND TO STRUCTURE ABOVE AND SEAL TIGHT PER UL DETAILS. REFER TO LIFE SAFETY DRAWINGS.
- FIRE RATED WALL SHALL EXTEND TO ADJACENT INTERIOR FIRE RATED WALLS OR EXTERIOR WALLS.
- FLOOR SLOPES AS INDICATED IN PLAN SHALL HAVE A SLOPE OF 1/8" PER FOOT.
- ALL NON-RATED WALLS ENCLOSING OFFICES, CONFERENCE ROOMS OR RESTROOMS SHALL EXTEND TO STRUCTURE ABOVE AND SEAL TIGHT. ALL OTHER WALLS SHALL EXTEND 6" ABOVE THE SCHEDULED CEILING HEIGHT U.N.O.
- PROVIDE SOUND ATTENUATION BATTS IN WALLS AND ABOVE CEILINGS OF ALL RESTROOMS, CONFERENCE ROOMS AND OFFICES. APPLY ACOUSTICAL SEALANT AT PARTITION WALLS AND CEILINGS PER SPECIFICATIONS AT THESE LOCATIONS.
- ALL GYPSUM BOARD SHALL BE APPLIED WITH SCREWS.
- ALL GYPSUM BOARD BUTTING OTHER MATERIALS OR EXPOSED SHALL BE FINISHED WITH METAL EDGES.
- PROVIDE GYPSUM BOARD EXPANSION JOINTS 30" O.C. OR AS RECOMMENDED BY THE GYPSUM ASSOCIATION.
- PROVIDE TILE BACKER BOARD BEHIND ALL WALL TILE. REFER TO SPECIFICATIONS.

### Reference Plan Keynotes

- FLOOR DRAIN - REFER TO PLUMBING
- 3/4" STEP DOWN IN SLAB AT OVERHEAD DOOR THRESHOLD - REFER TO SECTION DETAILS
- TRENCH DRAIN - REFER TO A2.5
- COMMERCIAL ICE MAKER AND STORAGE BIN - REFER TO SPECIFICATIONS
- GEAR GRID FIRE STORAGE LOCKERS - REFER TO SPECIFICATIONS
- AIR TANK RE-FILL STATION - REFER TO SPECIFICATIONS
- BOTTLE/HOSE STORAGE - REFER TO SPECIFICATIONS
- AIR COMPRESSOR ON EQUIPMENT PAD - REFER TO SPECIFICATIONS
- HAZMAT CABINET - REFER TO SPECIFICATIONS
- 24 x 36 MOP SINK - REFER TO PLUMBING
- STANDING UTILITY SINK - REFER TO PLUMBING
- RAM AIR HEATED DRYER RACK - REFER TO SPECIFICATIONS
- COMMERCIAL FRONT LOAD CLOTHES WASHER - REFER TO SPECIFICATIONS
- COMMERCIAL FRONT LOAD CLOTHES DRYER - REFER TO SPECIFICATIONS
- INDUSTRIAL WASHER EXTRACTOR WITH FILTERED TRENCH AND LINT TRAP - REFER TO A2.5
- HEAVY DUTY ADJUSTABLE STORAGE SHELVING - REFER TO SPECIFICATIONS
- PATIO TRENCH DRAIN - REFER TO CIVIL AND WALL SECTIONS
- ADA COMPLIANT UNDERMOUNT LAVATORY - REFER TO PLUMBING
- 8' TALL PLATE GLASS WALL MIRRORS - FULL WIDTH OF ROOM - REFER TO GLAZING SPECIFICATION
- 4 BURNER NATURAL GAS GRILL - REFER TO SPECIFICATIONS
- ALUMINUM SHIP LADDER AND ROOF HATCH ABOVE - REFER TO SPECIFICATIONS

### Partition Schedule

MS1.5	1.5" METAL FURRING APPLIED TO STRUCTURE WITH ONE (1) LAYER 5/8" GYPSUM BOARD. ASSEMBLY HEIGHT: 6" ABOVE CEILING OR TOP OF WALL STRUCTURE.
MS4	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 4" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. ASSEMBLY HEIGHT: 6" ABOVE CEILING.
MS4**	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 4" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. ASSEMBLY HEIGHT: TO ROOF STRUCTURE SEAL TIGHT
MS4-C	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO ONE SIDE OF 4" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. ASSEMBLY HEIGHT: 6" ABOVE CEILING OR TOP OF WALL STRUCTURE.
MS4-F1	ONE (1) LAYER OF 5/8" FIRE RATED TYPE "X" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 4" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. NOTE: 1.) 1 HOUR RATED - REFER TO UL DETAIL U419.
MS6	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 6" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. ASSEMBLY HEIGHT: 6" ABOVE CEILING.
MS6-C	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO ONE SIDE OF 6" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. ASSEMBLY HEIGHT: 6" ABOVE CEILING.
MS8-F1	ONE (1) LAYER OF 5/8" FIRE RATED TYPE "X" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO EACH SIDE OF 8" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. NOTE: 1.) 1 HOUR RATED - REFER TO UL DETAIL U419.
MS16-C	ONE (1) LAYER OF 5/8" GYPSUM WALL BOARD APPLIED AT RIGHT ANGLES OR PARALLEL TO ONE SIDE OF EACH 4" METAL STUDS AT 16" O.C. WITH 1" TYPE "S" SCREWS AT 8" O.C. TO VERTICAL EDGES AND 12" O.C. TO TOP AND BOTTOM RUNNERS AND INTERMEDIATE STUDS. 8" CLEAR CHASE
PC9-F1	9" INSULATED PRECAST CONCRETE PANEL CONSISTING OF 4" THICK INTERIOR CONCRETE LAYER, 2" OF POLYISOCYANURATE RIGID INSULATION AND 3" THICK EXTERIOR CONCRETE LAYER. NOTE: 1.) 1 HOUR RATED - REFER TO LIFE SAFETY SHEET FOR PRESCRIPTIVE RATING.

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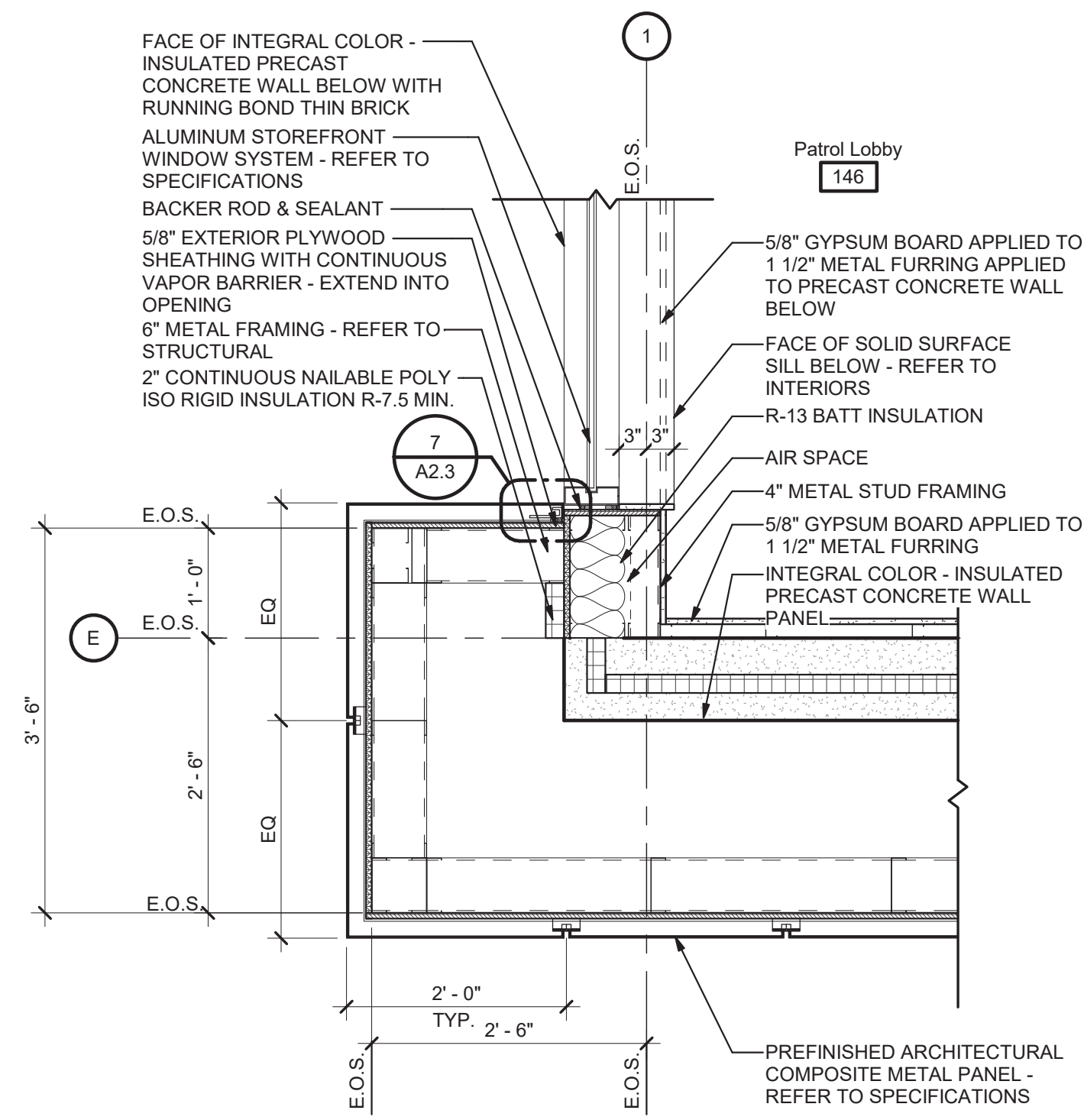
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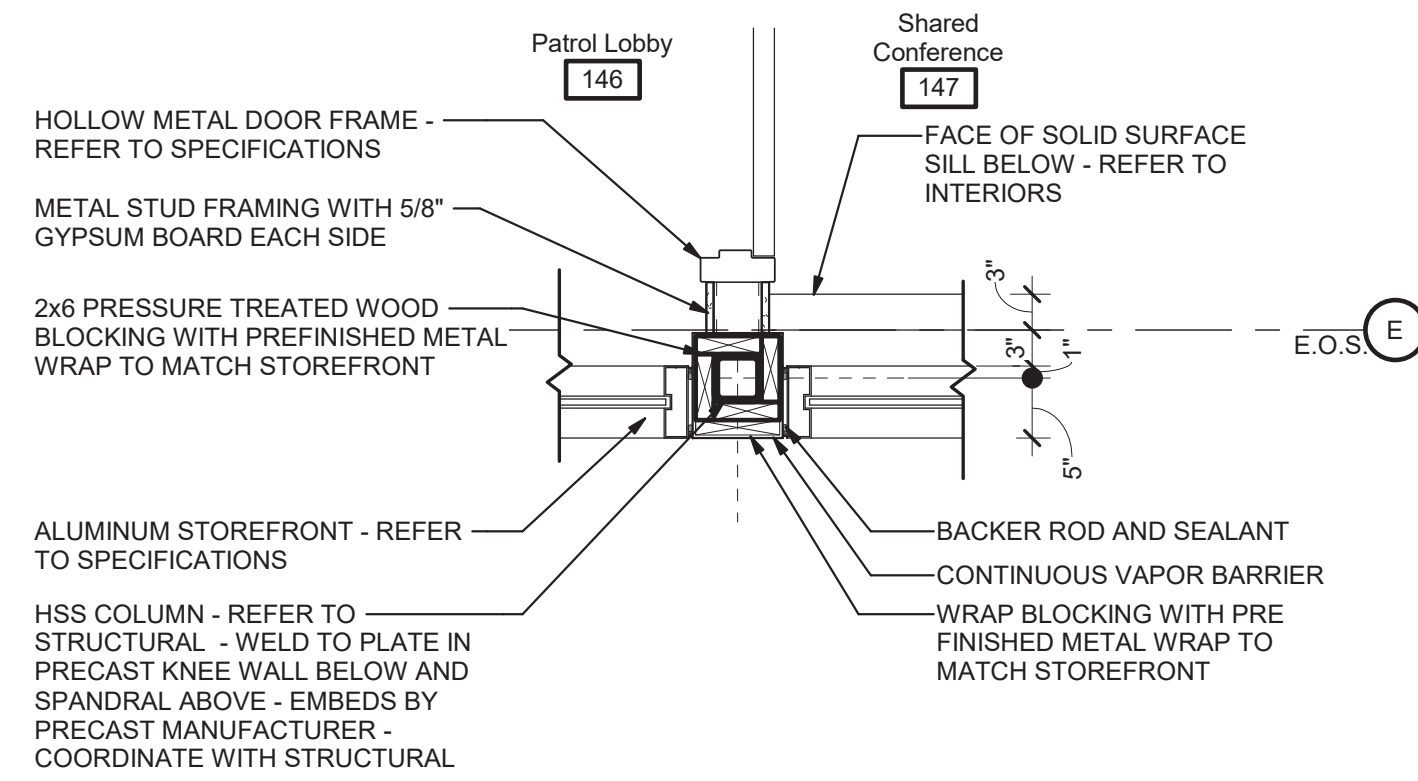
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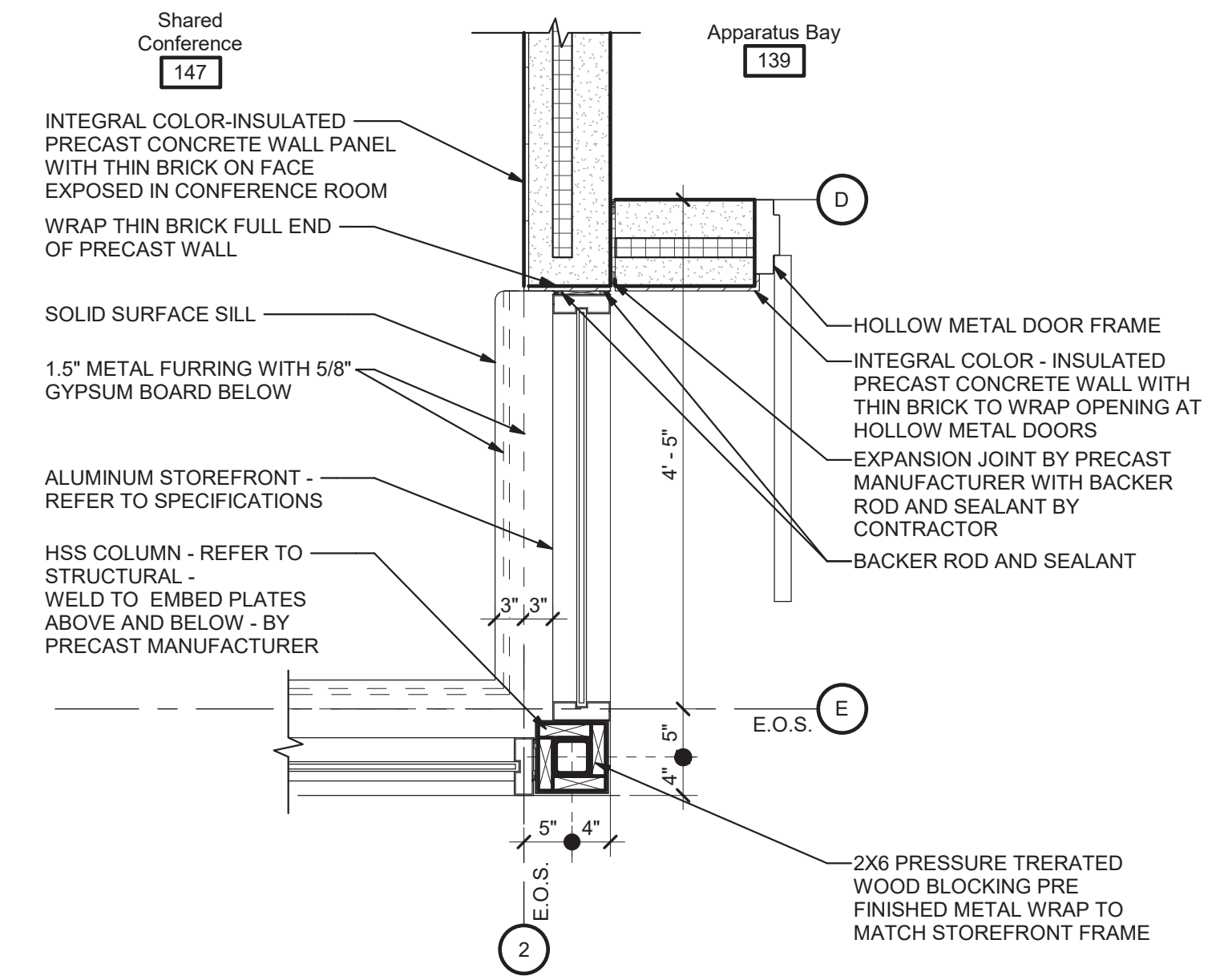
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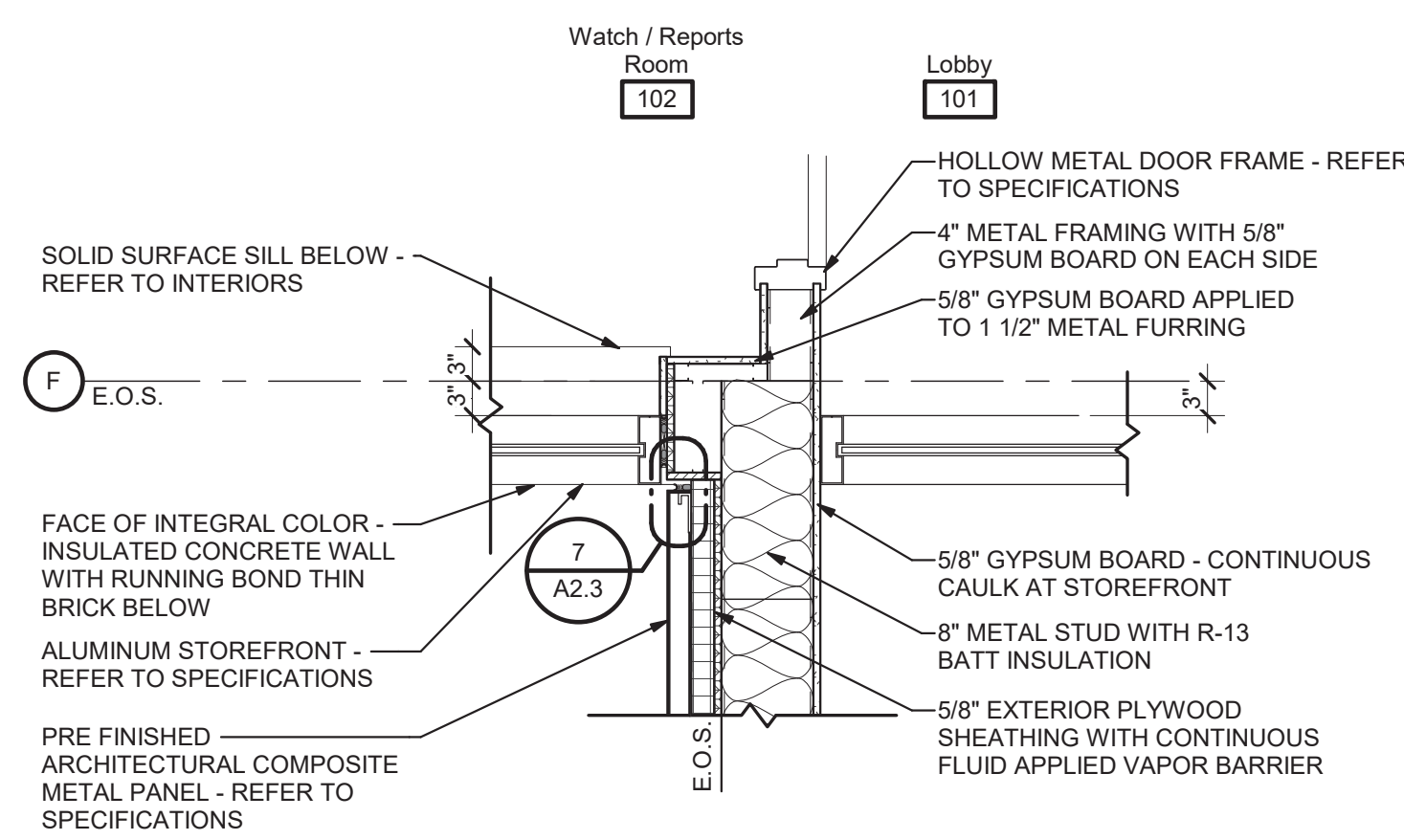
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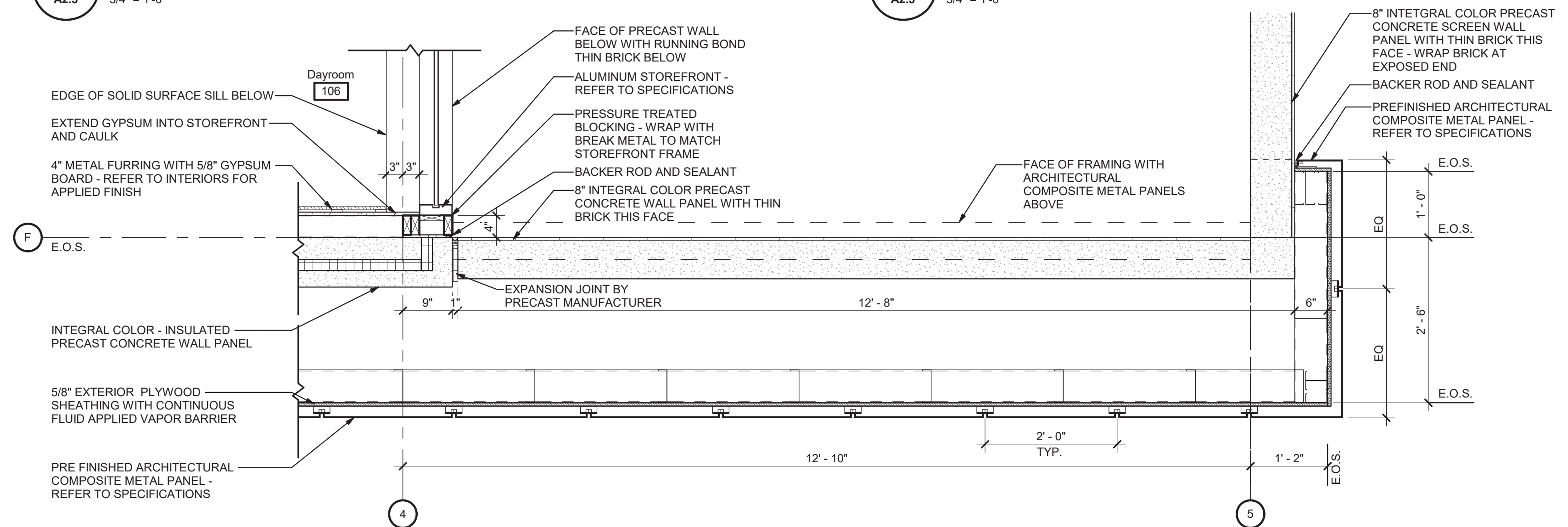
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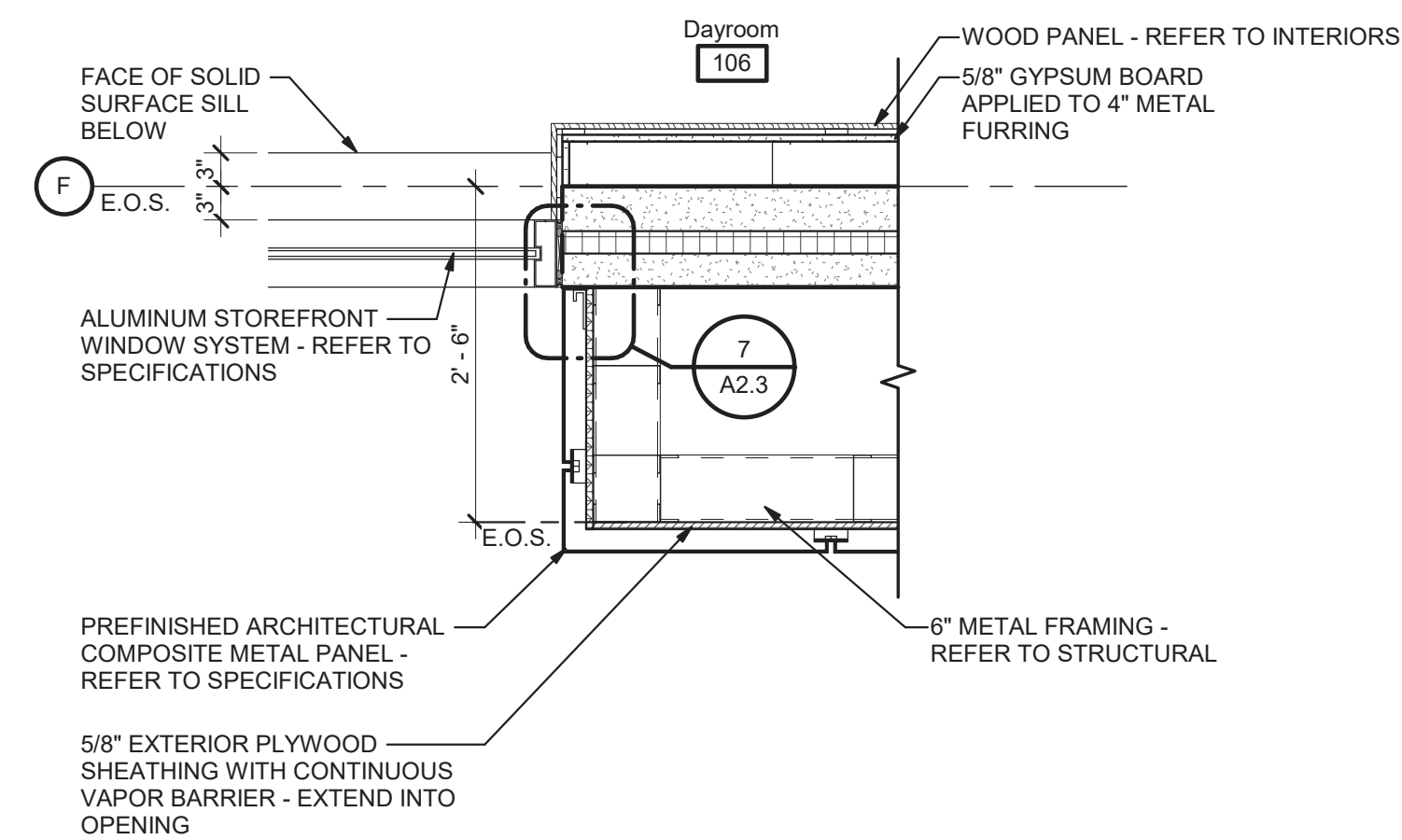
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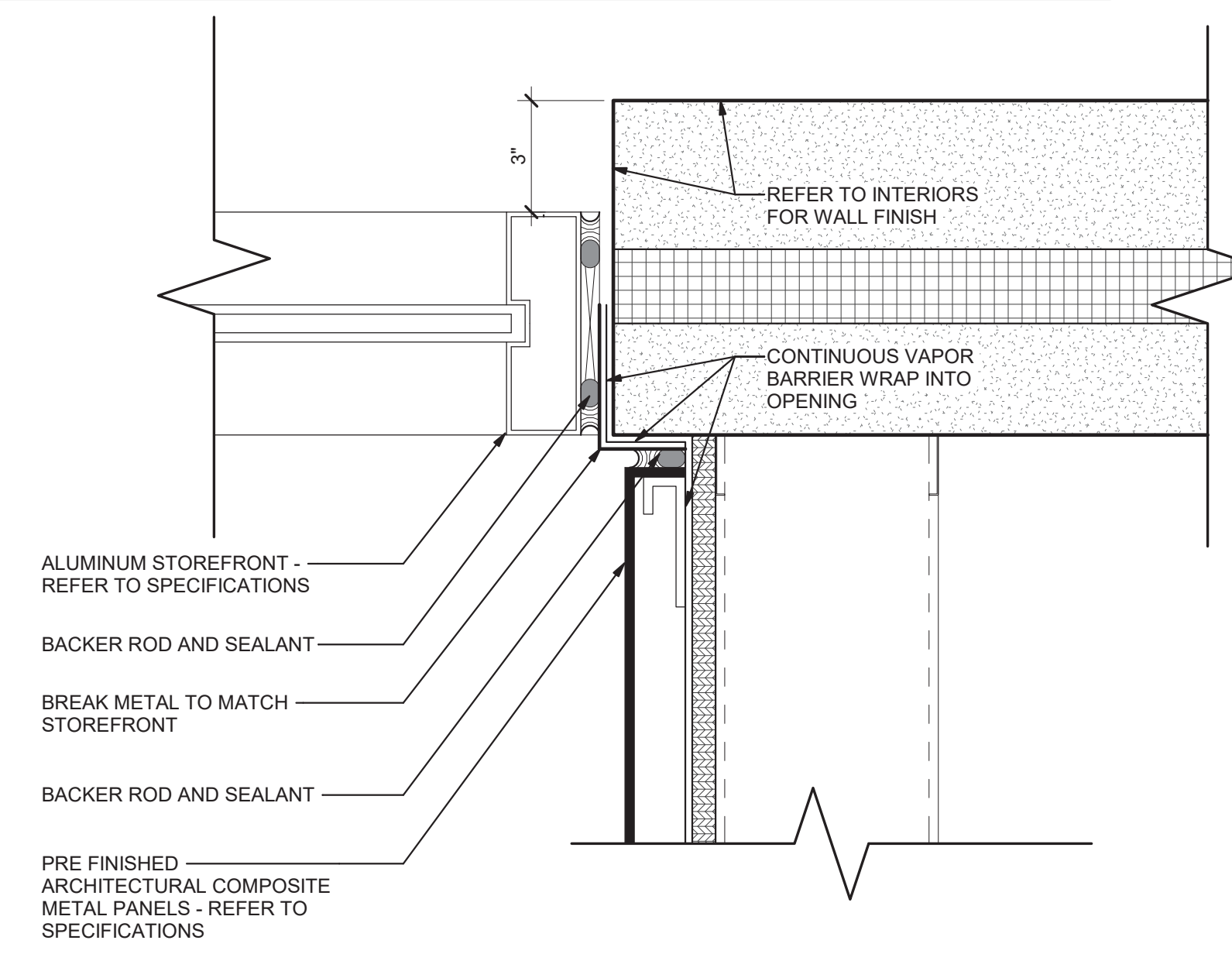
4 Enlarged Plan Detail  
A2.3 3/4" = 1'-0"



5 Enlarged Plan Detail  
A2.3 3/4" = 1'-0"



6 Enlarged Plan Detail  
A2.3 3/4" = 1'-0"



7 Typical Detail at Metal Panel/Storefront  
A2.3 3" = 1'-0"

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ENLARGED DIMENSION PLANS	CHECKED	LGD
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DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

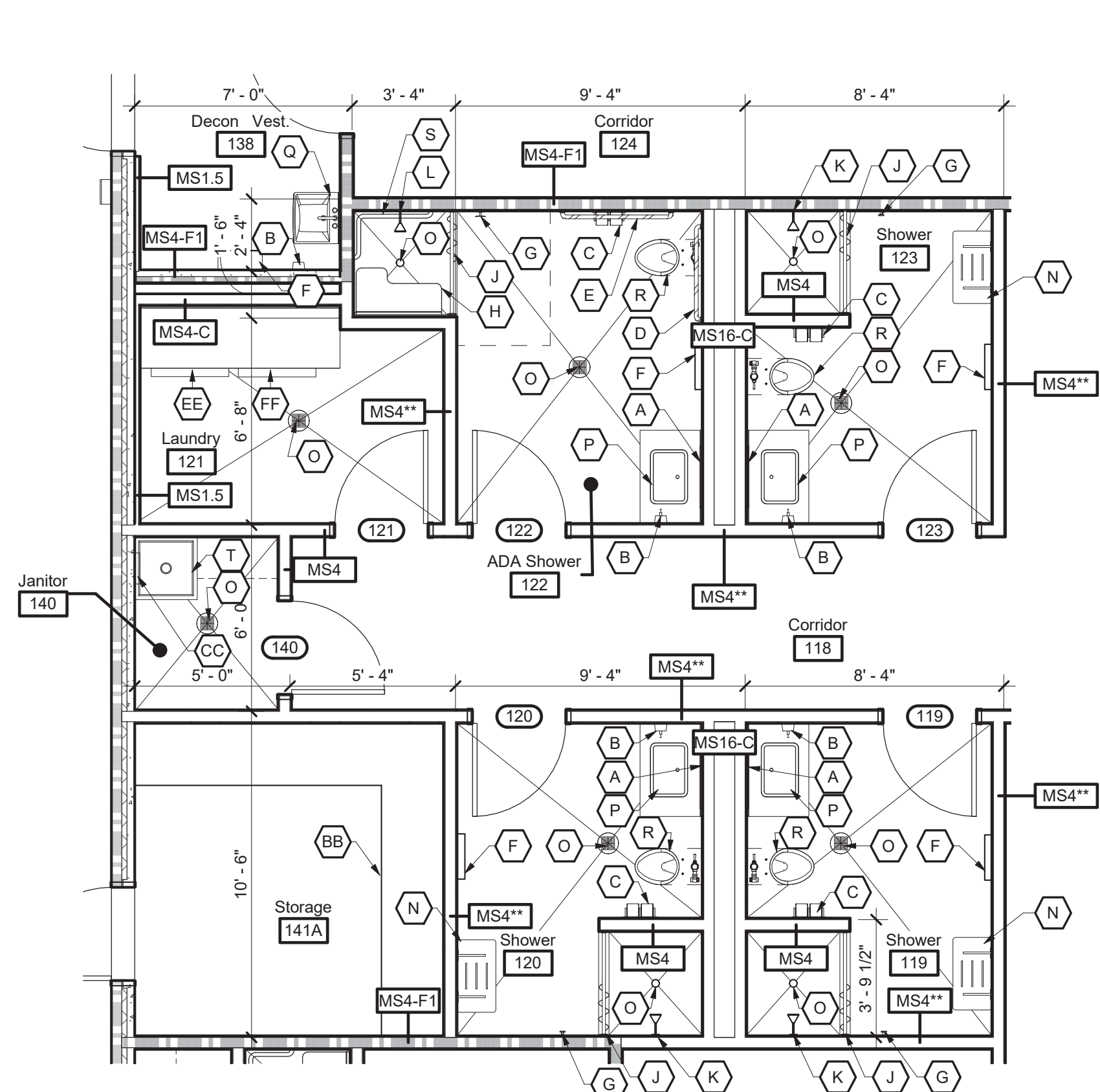
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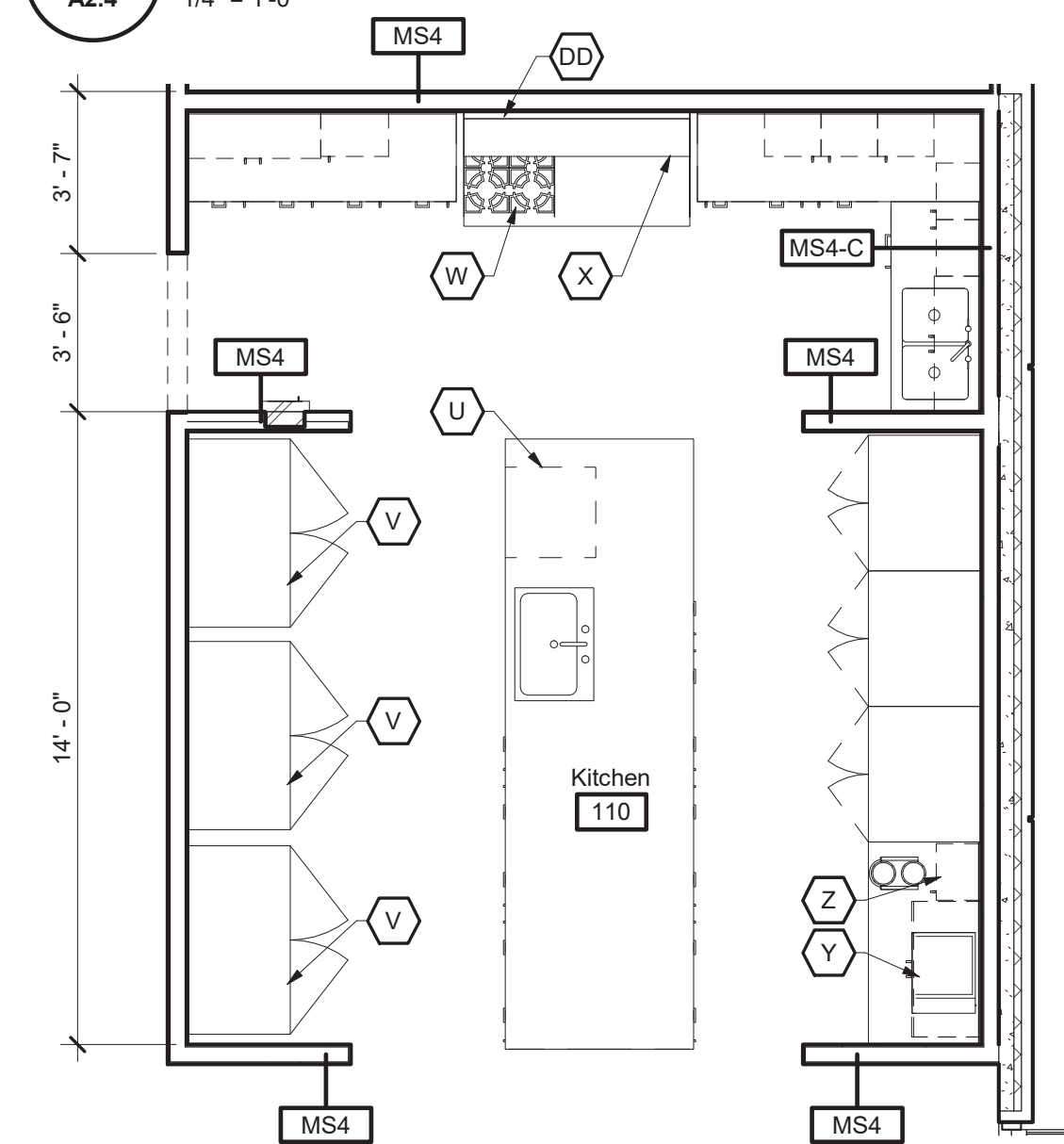
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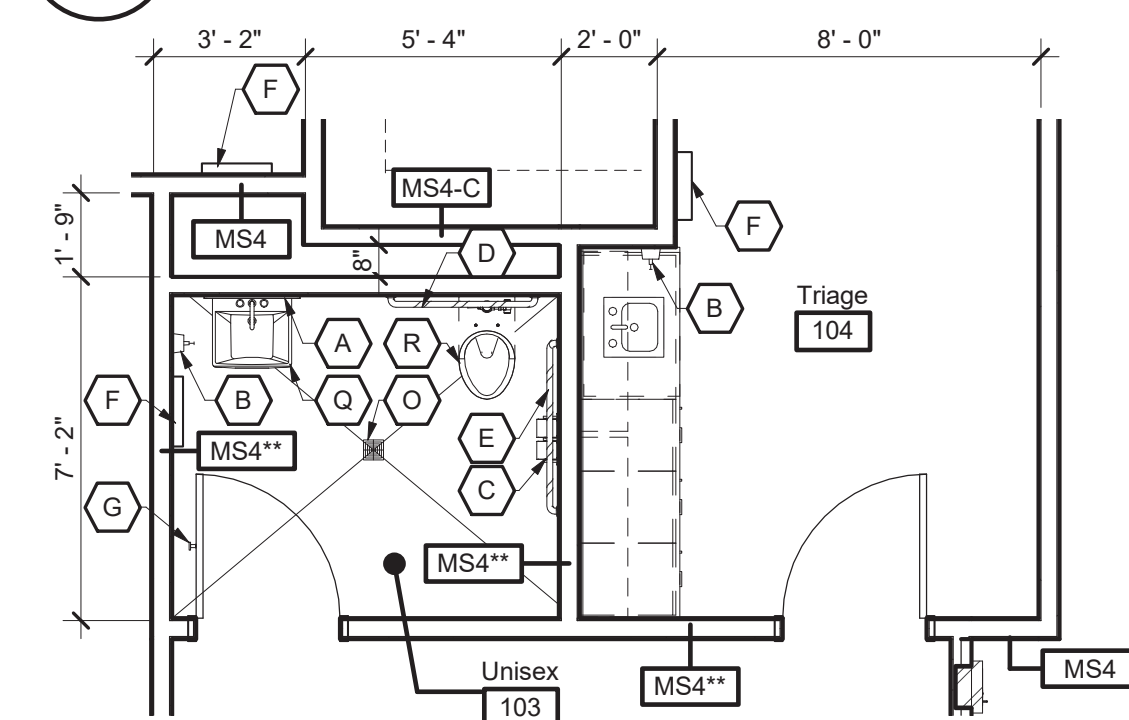
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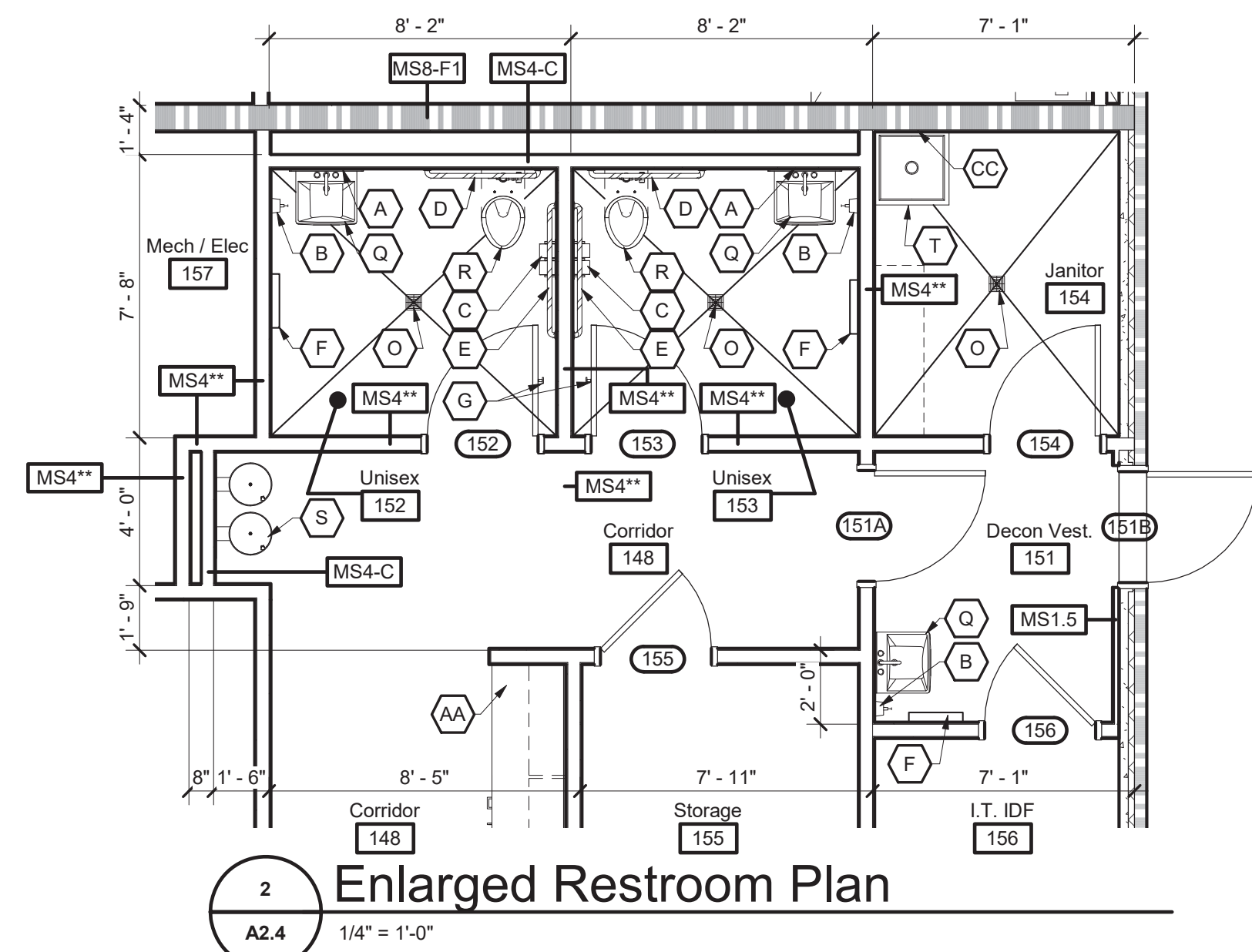
1 Enlarged Restroom Plan  
A2.4 1/4" = 1'-0"



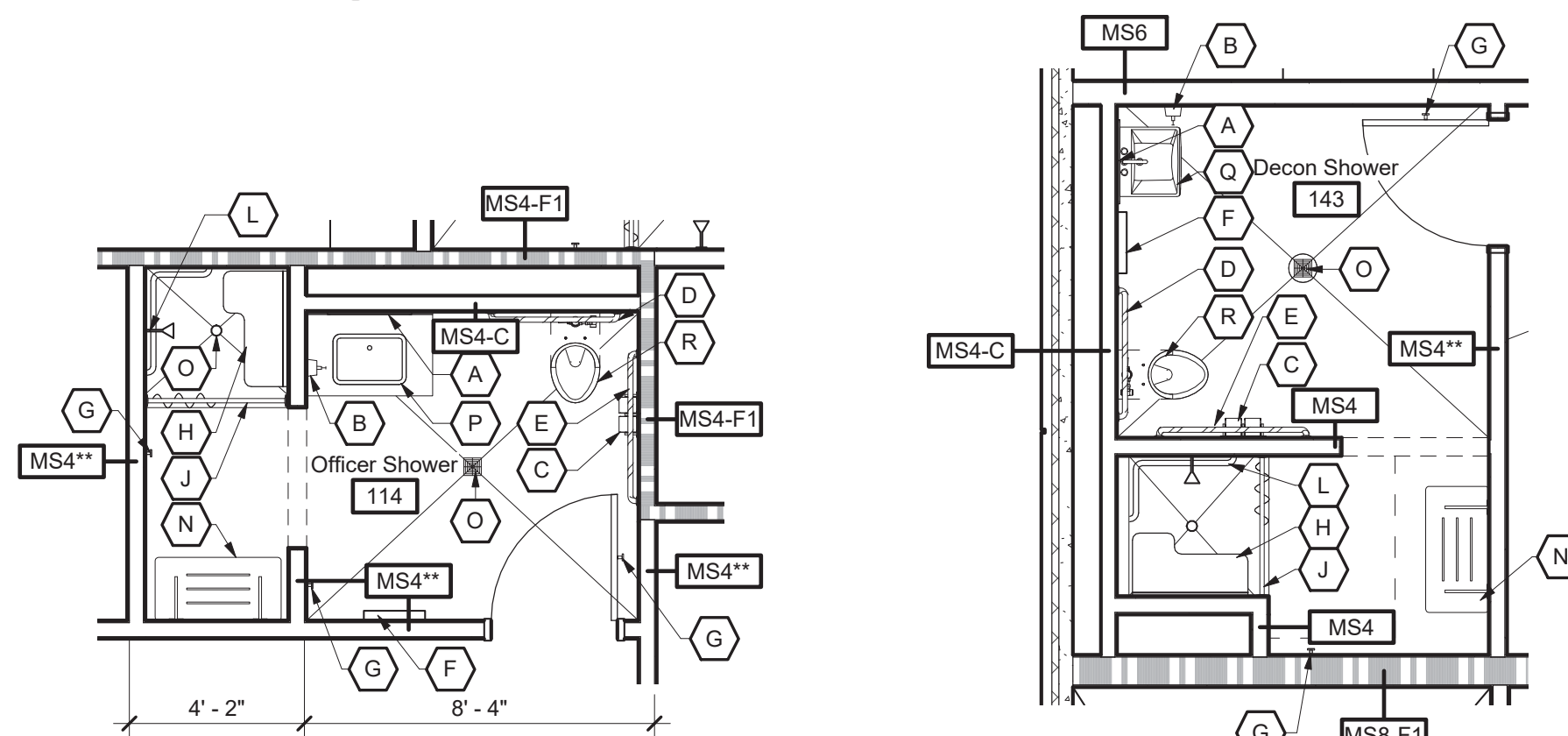
4 Enlarged Kitchen Plan  
A2.4 1/4" = 1'-0"



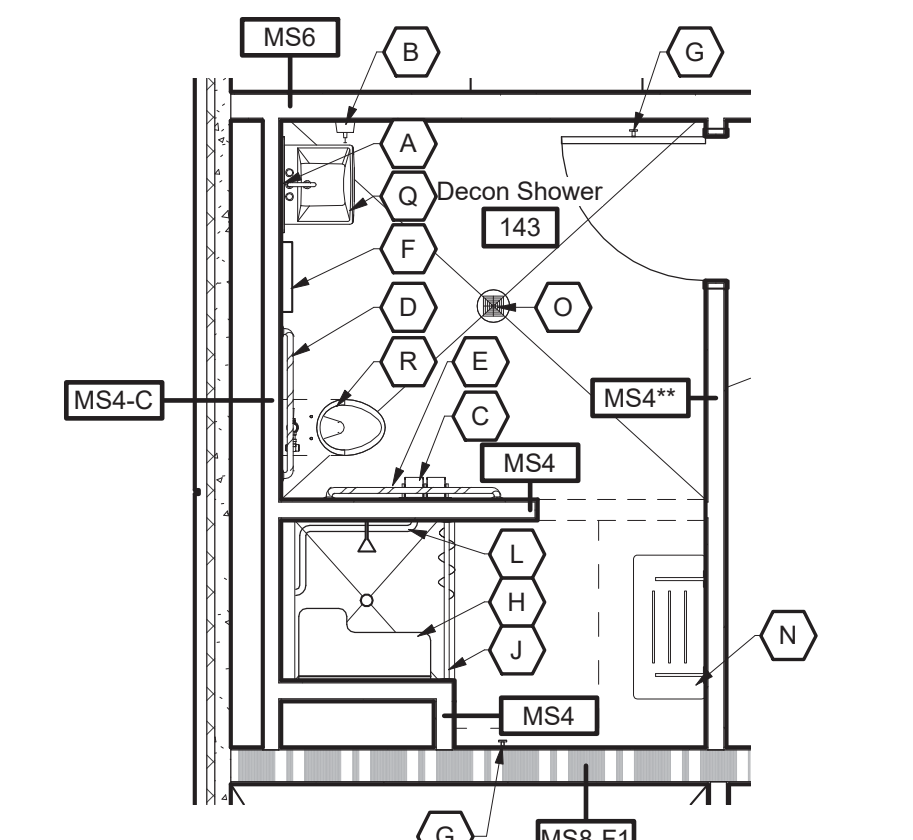
5 Enlarged Restroom Plan  
A2.4 1/4" = 1'-0"



2 Enlarged Restroom Plan  
A2.4 1/4" = 1'-0"

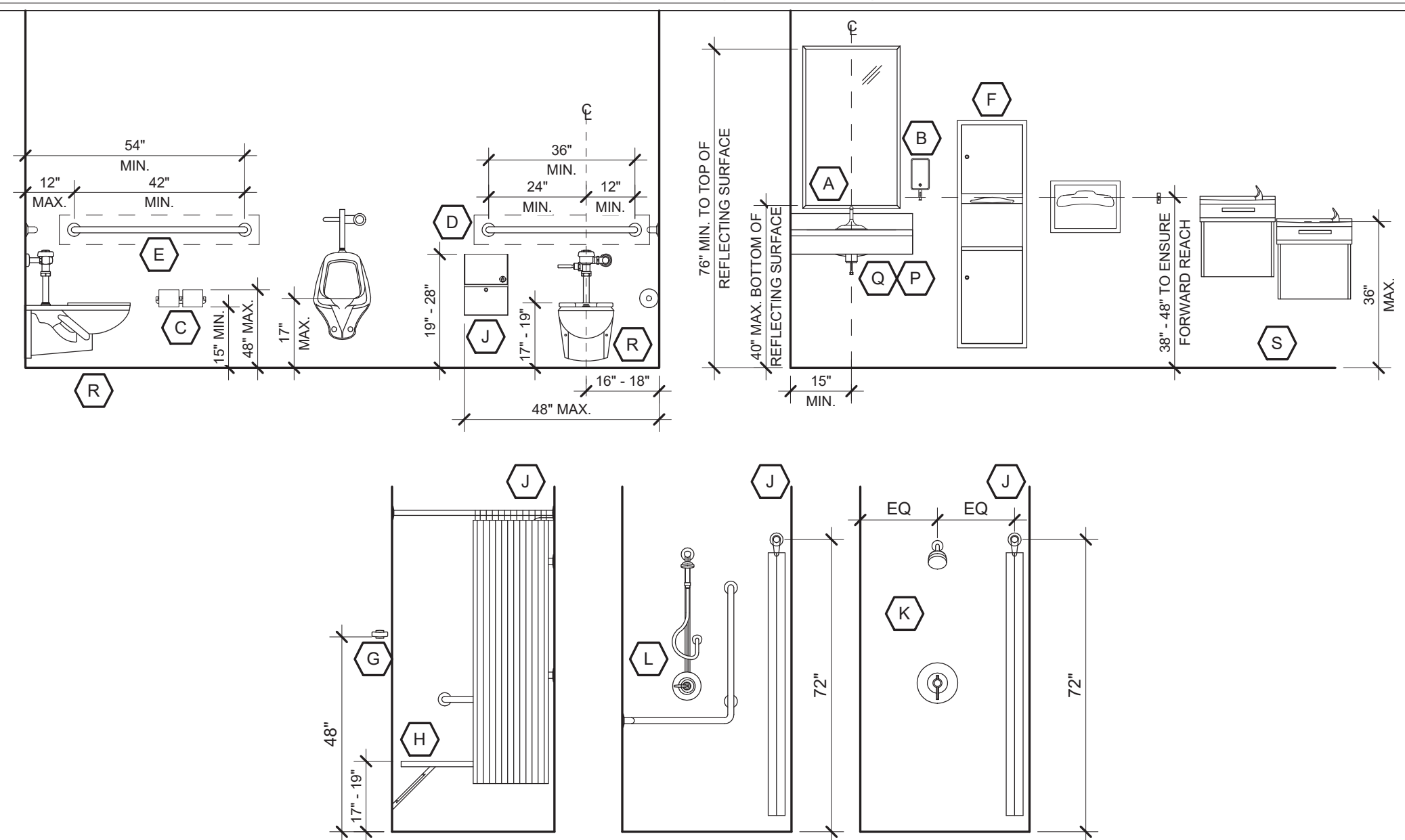


3 Enlarged Restroom Plan  
A2.4 1/4" = 1'-0"



6 Enlarged Decon Shower  
A2.4 1/4" = 1'-0"

### Mounting Heights Legend



### Accessory and Equipment Keynote Legend

- |   |  |
|---|--|
| A 24" X 36" FROSTED FRAME MIRROR - REFER TO SPECIFICATIONS  | Q ADA COMPLIANT WALL MOUNTED LAVATORY - REFER TO PLUMBING DRAWINGS             |
| B LIQUID SOAP DISPENSER WITH DRIP TRAY AS REQUIRED  | R WATER CLOSET - REFER TO PLUMBING DRAWINGS                                    |
| C TOILET TISSUE DISPENSER WITH SHELF - REFER TO SPECIFICATIONS                                      | S ADA COMPLIANT WALL HUNG HIGH-LOW WATER FOUNTAIN - REFER TO PLUMBING DRAWINGS |
| D 36" ADA GRAB BAR - REFER TO SPECIFICATIONS  | T 24" X 24" MOP SINK WITH HANGER FAUCET - REFER TO PLUMBING DRAWINGS           |
| E 42" ADA GRAB BAR - REFER TO SPECIFICATIONS  | U RESIDENTIAL DISHWASHER - REFER TO SPECIFICATIONS                             |
| F SEMI-RECESSED TOWEL AND WASTE RECEPTACLE  | V REACH-IN COMMERCIAL REFRIGERATOR AND FREEZER - REFER TO SPECIFICATIONS       |
| G WALL MOUNTED HOOK - REFER TO SPECIFICATIONS   | W COMMERCIAL 4-BURNER RANGE WITH GRIDDLE - REFER TO SPECIFICATIONS             |
| H SHOWER SEAT - WALL MOUNTED PHENOLIC ADA COMPLIANT FOLD DOWN SHOWER SEAT - REFER TO SPECIFICATIONS | X CONTRACTOR PROVIDED STAINLESS STEEL RANGE HOOD WITH FIRE SUPPRESSION         |
| J SHOWER CURTAIN ASSEMBLY - REFER TO SPECIFICATIONS   | Y TWO (2) COMMERCIAL MICROWAVES - REFER TO SPECIFICATIONS                      |
| K SHOWER CONTROLS - STANDARD - REFER TO PLUMBING  | Z COMMERCIAL COFFEE MAKER - REFER TO SPECIFICATIONS                            |
| L ADA COMPLIANT SHOWER CONTROLS AND GRAB BAR - REFER TO PLUMBING                                    | AA 30" UNDERCOUNTER BEVERAGE REFRIGERATOR - REFER TO SPECIFICATIONS            |
| M NOT USED  | BB HEAVY DUTY STORAGE SHELVING - REFER TO SPECIFICATIONS                       |
| N WALL MOUNTED FOLD DOWN BENCH - REFER TO SPECIFICATIONS  | CC UTILITY SHELF WITH MOP HANGER, MOP, BUCKET - REFER TO SPECIFICATIONS        |
| O FLOOR DRAIN - REFER TO PLUMBING   | DD WALL MOUNTED POT FILLER FAUCET - REFER TO PLUMBING                          |
| P ADA COMPLIANT UNDER COUNTER MOUNTED LAVATORY - REFER TO PLUMBING DRAWINGS                         | EE COMMERCIAL FRONT LOAD CLOTHES WASHER - REFER TO PLUMBING                    |
|   | FF COMMERCIAL FRONT LOAD CLOTHES DRYER - REFER TO PLUMBING                     |

### General Notes

- ALL EXPOSED PIPING (UNDER LAVATORIES) TO BE INSULATED OR PROTECTED.
- PROVIDE BLOCKING IN WALLS FOR GRAB BARS AND TOILET ACCESSORIES. GRAB BARS SHALL WITHSTAND A LOAD OF 250 lbs. APPLIED IN ANY DIRECTION.
- FIXTURE ELEVATIONS ARE FOR REFERENCE ONLY. REFER TO PLUMBING FOR ACTUAL FIXTURE TYPES.
- ALL ACCESSORIES SHALL BE KEYPED ALIKE.
- ACCESSORIES SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER.
- MOUNT SOAP DISPENSER TO DRIP ONTO COUNTER, LAVATORY, OR SOAP DISH, NOT ONTO FLOOR.
- CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5LB.

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PROJECT

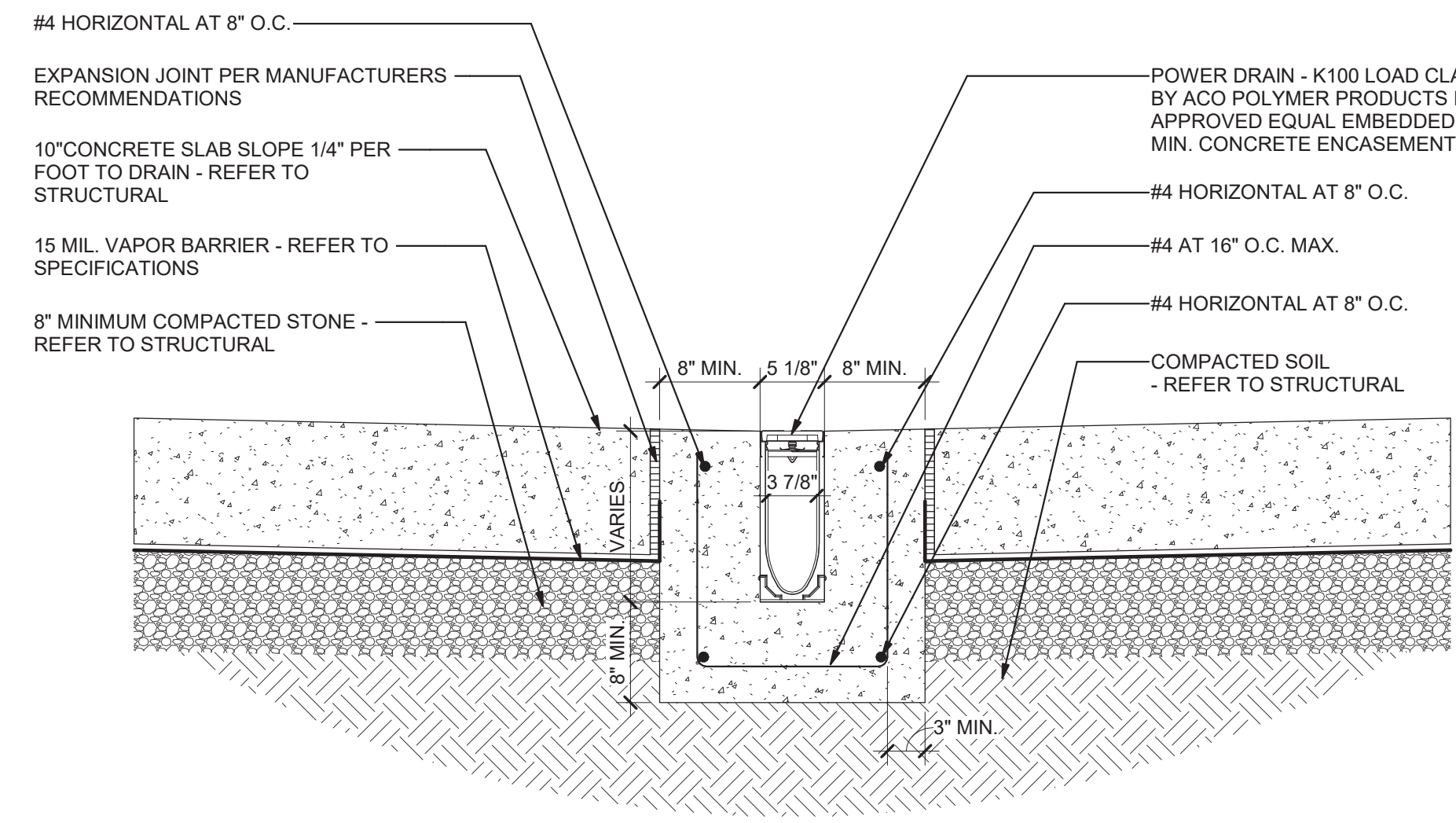
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DESIGN BKS DRAWN PPI CHECKED LGD  
SHEET TITLE

RELEASE

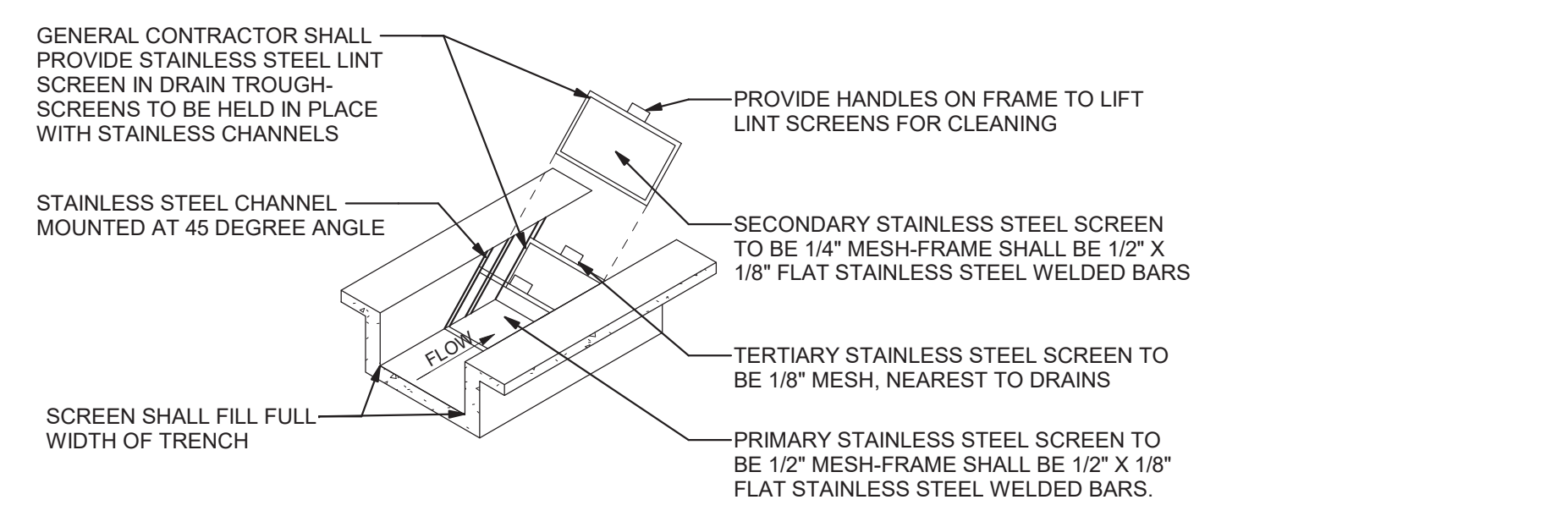
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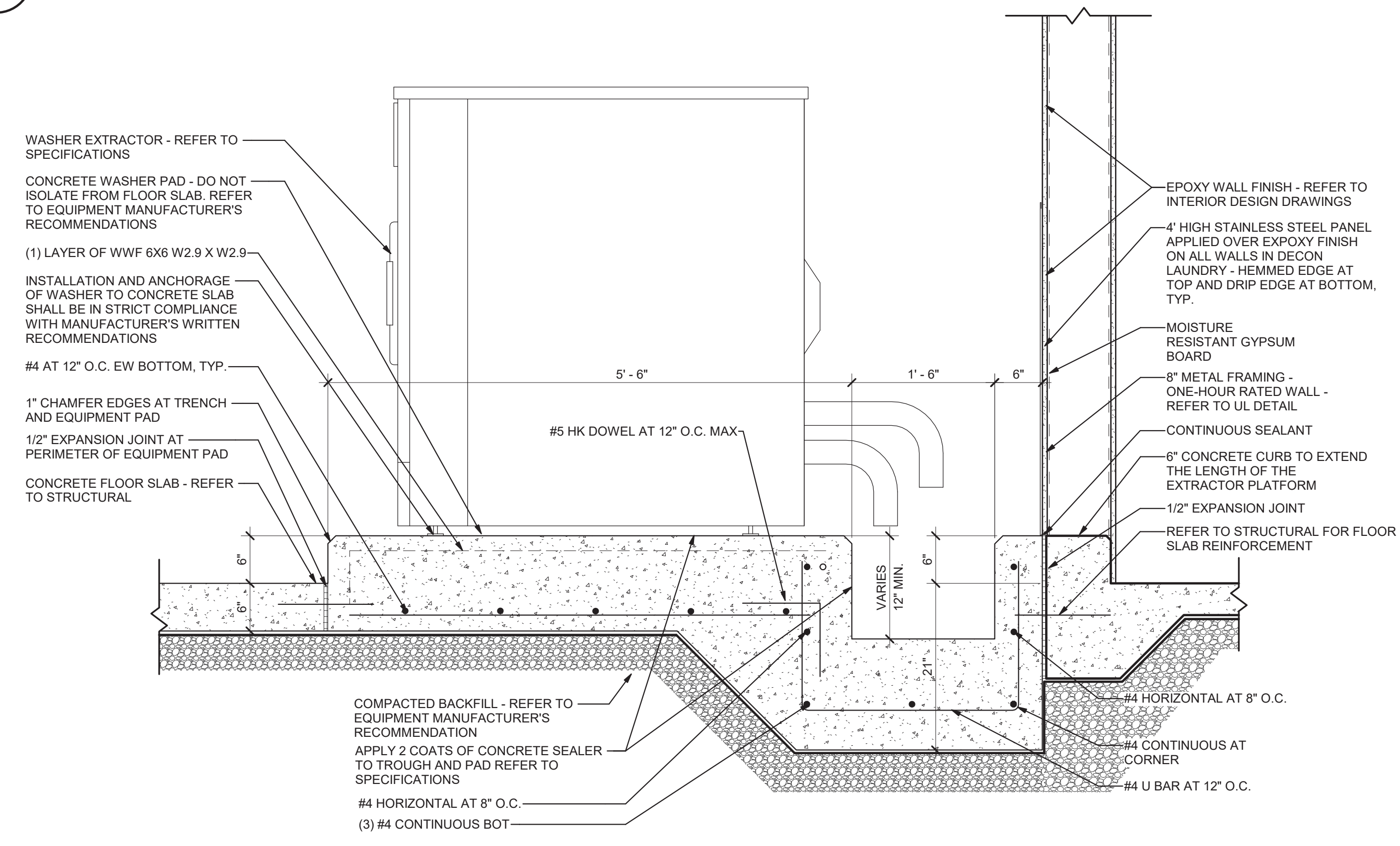
A2.4



1 Trench Drain Section Detail  
A2.5 1" = 1'-0"



2 Lint Screen Section Detail  
A2.5 1" = 1'-0"



3 Section at Laundry Room Trench  
A2.5 1" = 1'-0"

**NOTES:**

- IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
- A MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS REQUIRED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- EXPANSION AND CRACK CONTROL JOINTS ARE REQUIRED TO PROTECT THE CONCRETE SURROUND.
- THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100 CHANNEL SYSTEM WITH DUCTILE IRON RAIL AND GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH.

CHANNELS WILL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST IN DUCTILE IRON RAIL AND SUPPLIED WITH DUCTILE IRON GRATES.

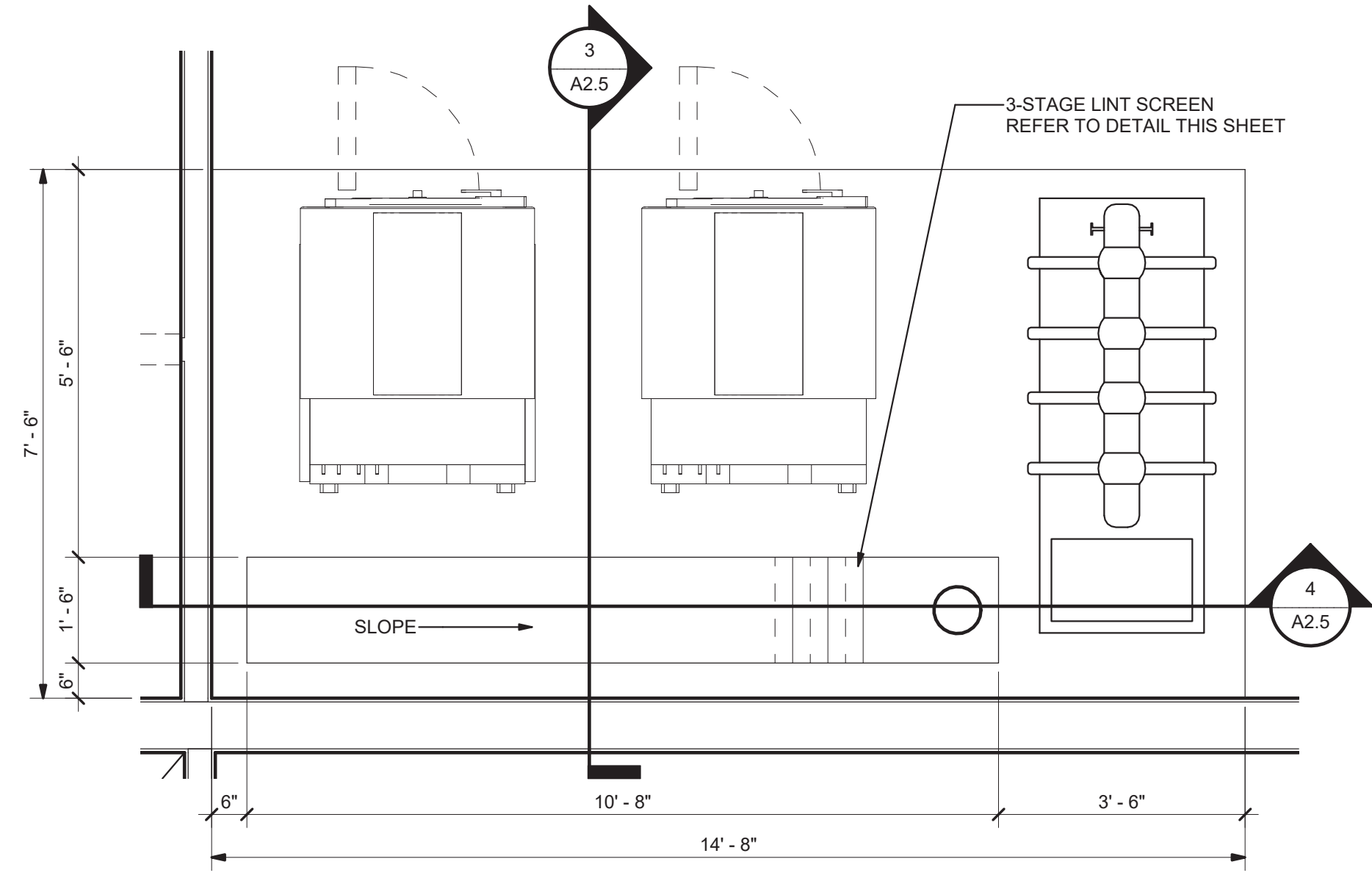
THE SYSTEM SHALL BE 4 INCHES (100MM) NOMINAL INSIDE WIDTH WITH A 5 1/8" IN. (160MM) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.6%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT. EACH CHANNEL SHALL HAVE A 4.5 IN. (114MM) SCHEDULE 40 ROUND AND 6 IN. (150MM) OVAL DRILL-OUT ON THE BOTTOM FOR VERTICAL CONNECTION WITH UNDERGROUND PIPING.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

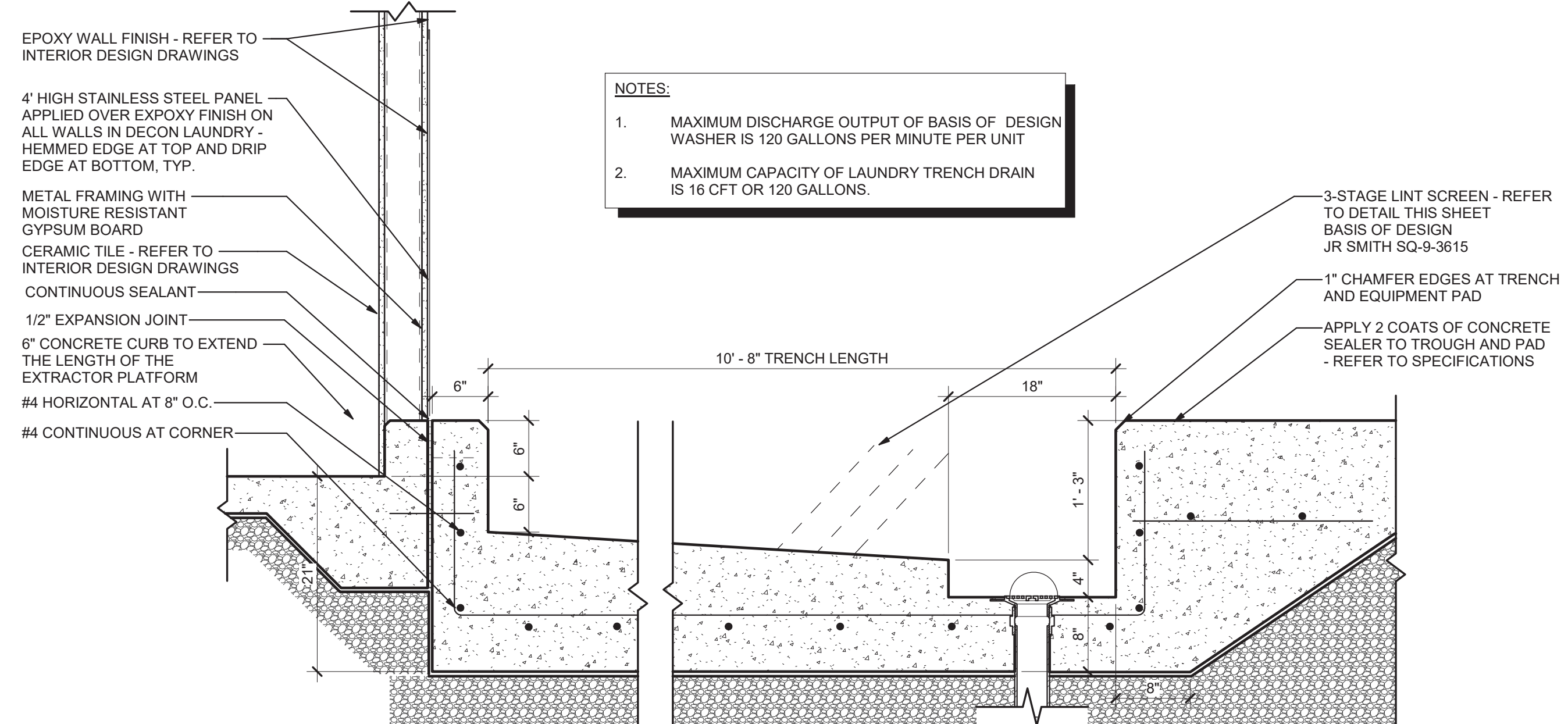
THE CHANNEL SYSTEM SHALL BE INDEPENDENTLY CERTIFIED TO WITHSTAND LOADINGS TO LOAD CLASS E (DIN19580). GRATES SHALL BE SECURED USING 'POWERLOK' BOLTLESS LOCKING SYSTEM. GRATE AND LOCKING SYSTEM SHALL BE FULLY REMOVABLE FROM CHANNEL.

POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000-14,500 PSI; FLEXURAL STRENGTH BETWEEN 3600-4500 PSI; TENSILE STRENGTH OF 1500 PSI. THE MATERIAL WATER ABSORPTION RATE SHALL NOT EXCEED 0.1% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, REPETITIVE FROST CYCLES AND CHEMICALLY RESISTANT TO DILUTE ACIDS AND ALKALIS.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.



5 Enlarged Plan - Extractor Pad  
A2.5 1/2" = 1'-0"



4 Section at Laundry Room Trench  
A2.5 1" = 1'-0"

**NOTES:**

- MAXIMUM DISCHARGE OUTPUT OF BASIS OF DESIGN WASHER IS 120 GALLONS PER MINUTE PER UNIT
- MAXIMUM CAPACITY OF LAUNDRY TRENCH DRAIN IS 16 CFT OR 120 GALLONS.

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TRENCH DRAIN  
DETAILS  
DESIGN BKS  
DRAWN PPI  
CHECKED LGD

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A2.5

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ROOF PLAN, NOTES AND DETAILS

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10/01/2021	
DATE	PROJ. NUMBER
10/01/2021	A21-006
FILE NAME	FILE NUMBER

**A3.1**

**Roof Plan General Notes**

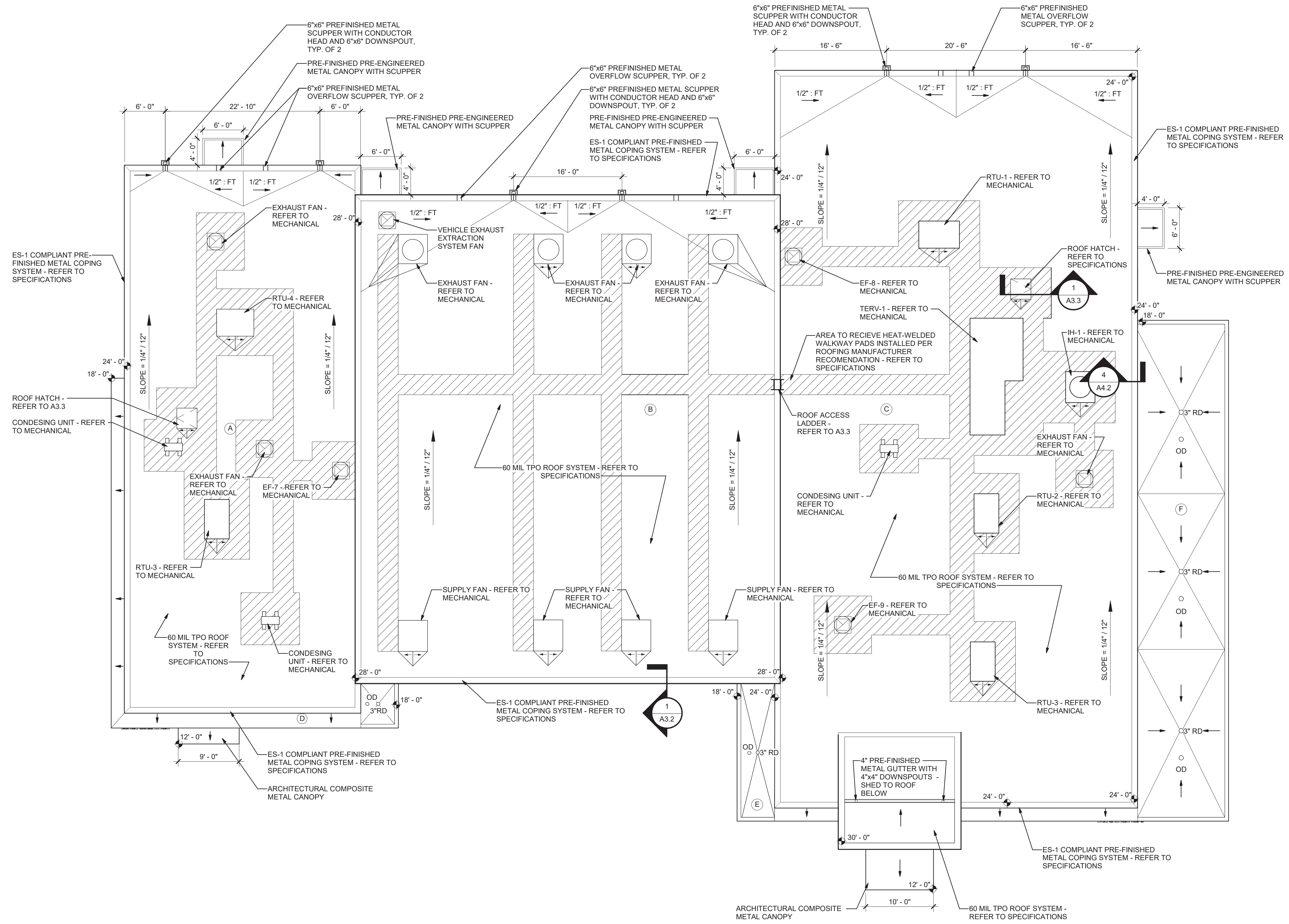
1. ROOF PLAN DEPICTS INTENT OF ROOF SLOPES.
2. NOT ALL ROOF PENETRATIONS ARE INDICATED ON ROOF PLAN. COORDINATE WITH ALL TRADES FOR NUMBER AND LOCATIONS OF ROOF PENETRATIONS.
3. ALL ROOF PENETRATIONS SHALL BE WATER TIGHT AND SHALL NOT VOID ROOF WARRANTY.
4. PROVIDE TAPERED INSULATION ROOF CRICKETS AT ALL EQUIPMENT AND ROOF ACCESS LOCATIONS.
5. EXTEND ALL CONDENSATE LINES FROM RTU'S TO NEAREST SCUPPER. USE COLLECTOR LINES AS REQUIRED. USE ROOFING MANUFACTURER RECOMMENDED ADJUSTABLE SEATS AT 5'-0" O.C.
6. ALL ROOF DETAILS SHALL BE APPROVED BY THE ROOF SYSTEM MANUFACTURER PRIOR TO COVERAGE.
7. ANY NON-STANDARD DETAILS MUST BE APPROVED IN WRITING BY ROOF SYSTEM MANUFACTURER PRIOR TO INSTALLATION.
8. ALL OVERFLOW SCUPPERS SHALL BE LOCATED 4" HIGHER THAN ADJACENT PRIMARY SCUPPER AND 8'-0" HORIZONTALLY.
9. GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH PRECAST DOUBLE-TEE MANUFACTURER.

**Roof Plan Calculations**

REQUIRED	PROVIDED
(A) AREA = 2645 SF 120 IN/SF = 22 SI	(2) 6"x6" DOWNSPOUTS = 72 SI
(B) AREA = 4313 SF 120 IN/SF = 36 SI	(2) 6"x6" DOWNSPOUTS = 72 SI
(C) AREA = 5592 SF 120 IN/SF = 47 SI	(2) 6"x6" DOWNSPOUTS = 72 SI
(D) AREA = 155 SF 120 IN/SF = 2 SI	(1) 3" ROOF DRAIN = 7 SI
(E) AREA = 156 SF 120 IN/SF = 1.02 SI	(1) 3" ROOF DRAIN = 7 SI
(F) AREA = 937 SF 120 IN/SF = 8.25 SI	(3) 3" ROOF DRAINS = 7 SI

**Roof Plan Legend**

- RD = ROOF DRAIN - REFER TO PLUMBING
- OD = OVERFLOW DRAIN - REFER TO PLUMBING
- D.S. = DOWN SPOUT - REFER TO PLUMBING



**1 Roof Plan**  
 A3.1 1/8" = 1'-0"

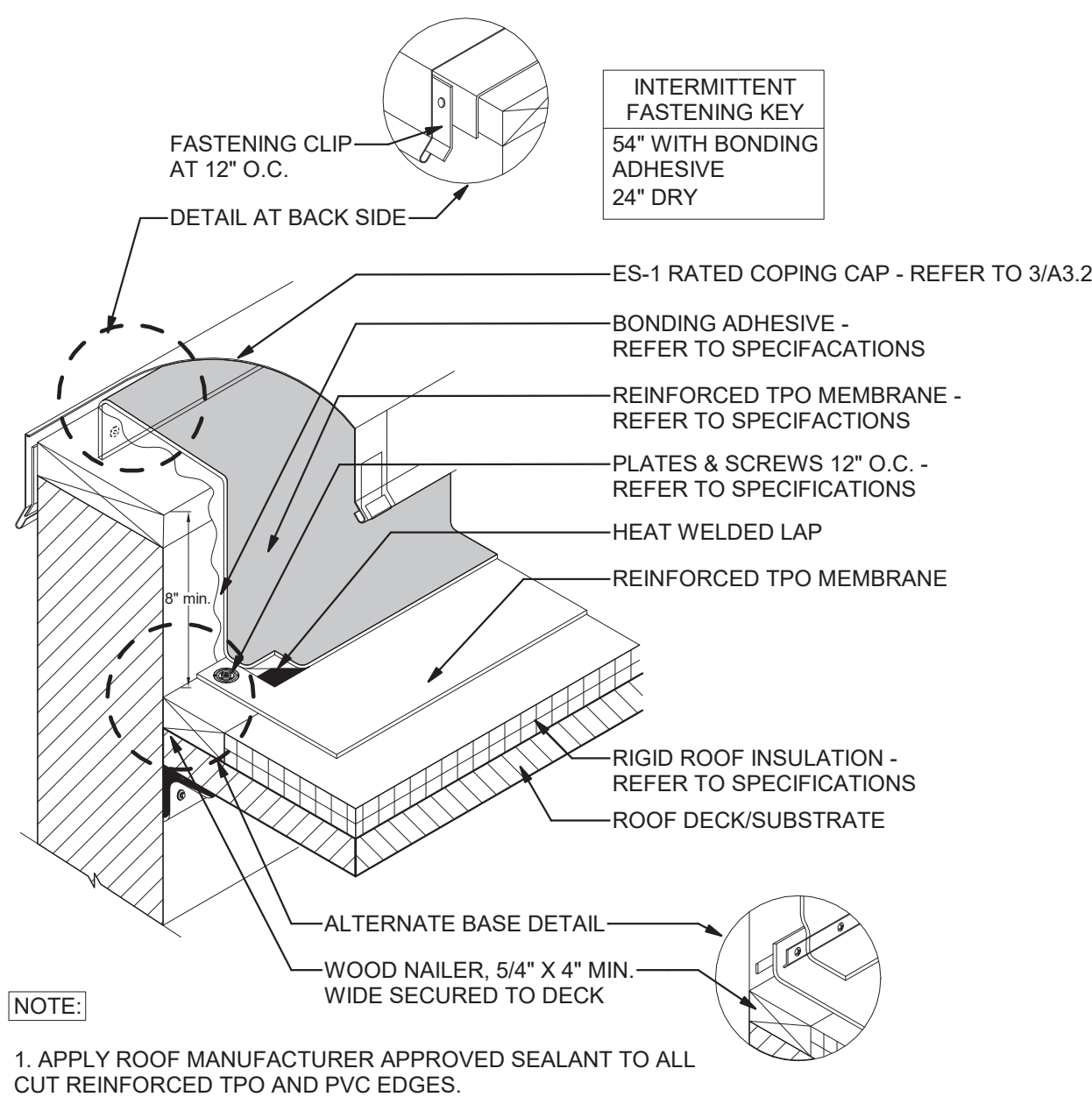
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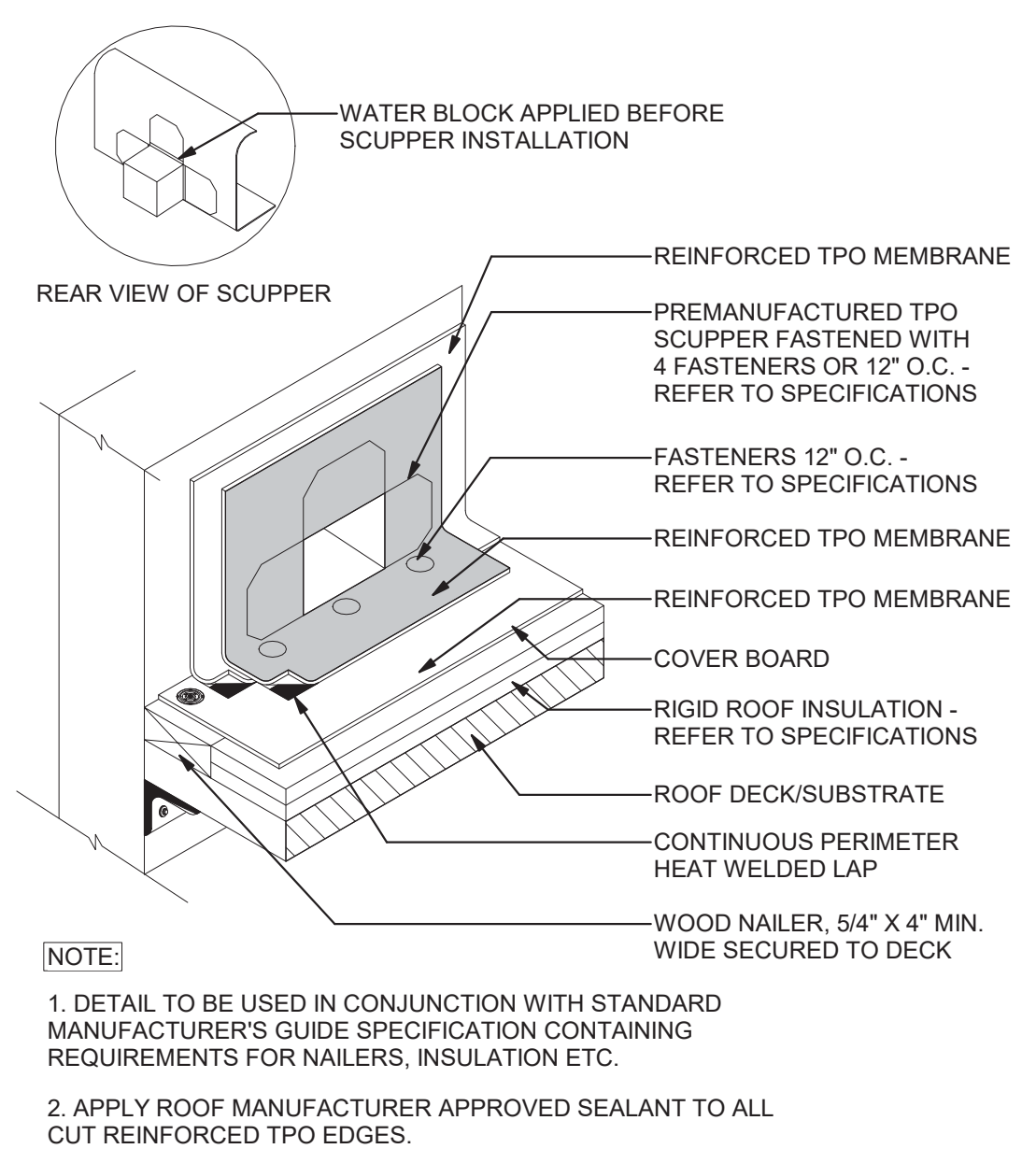
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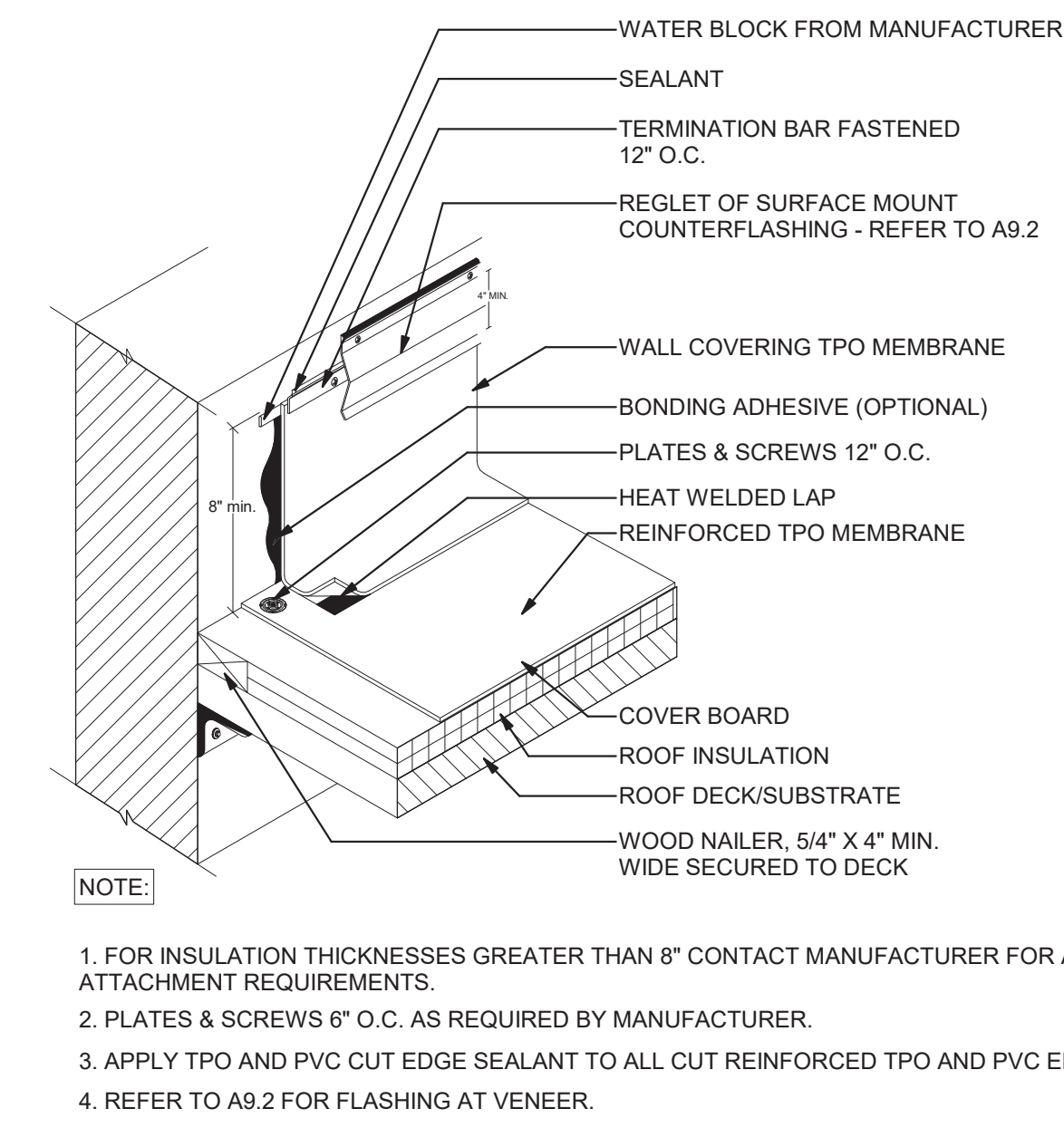
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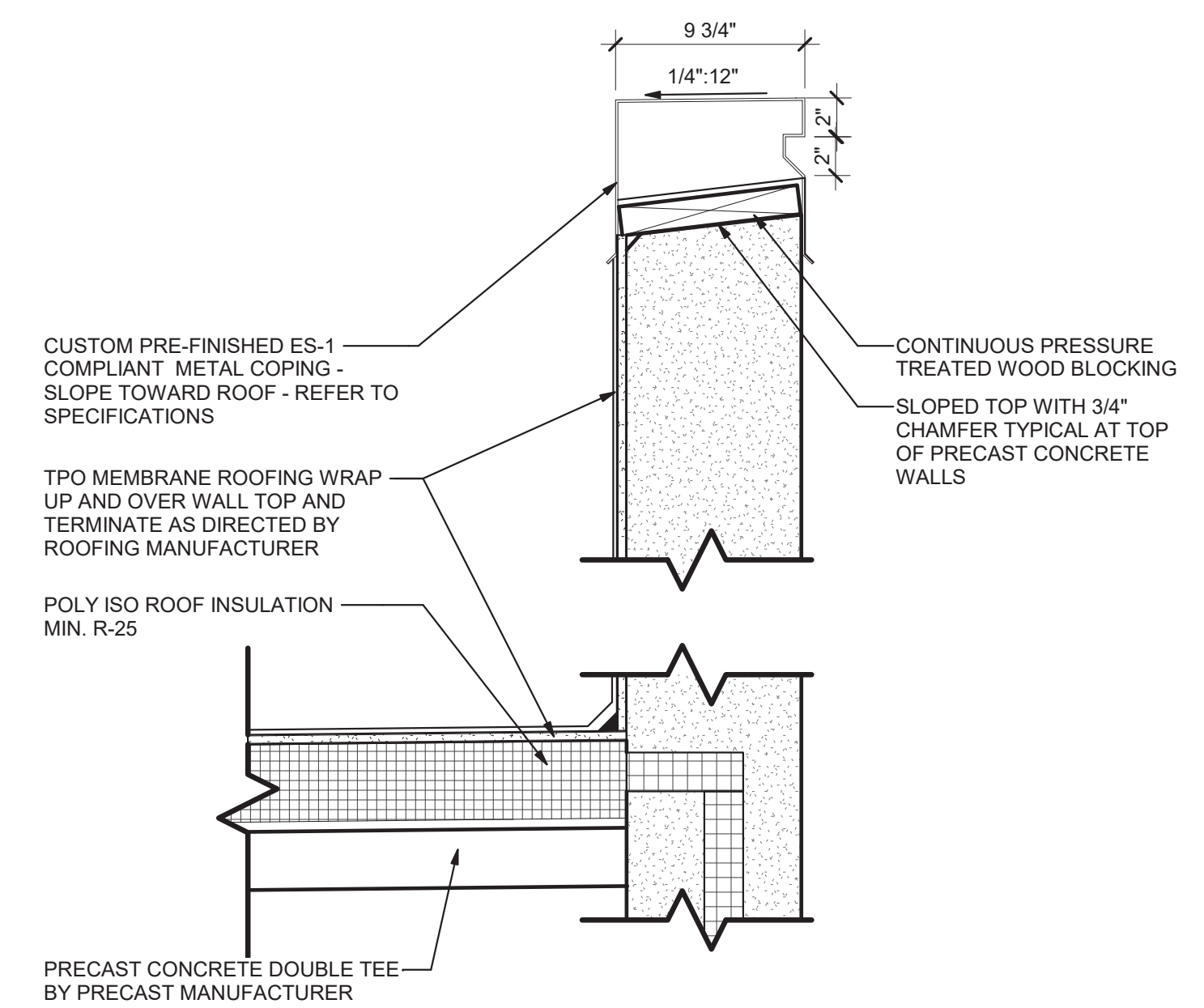
1 Wall Cap Detail  
A3.2 N.T.S.



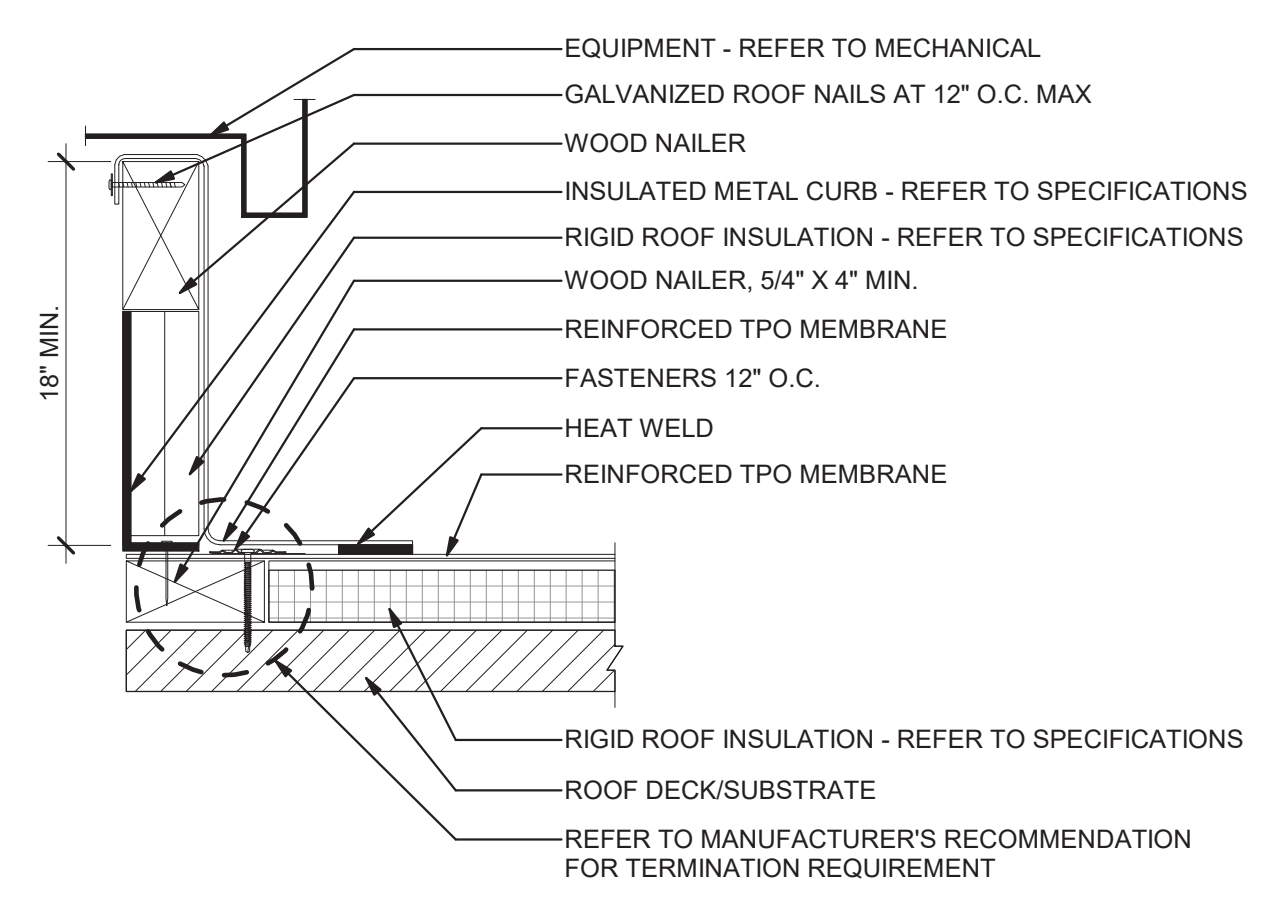
2 Scupper - Premanufactured Detail  
A3.2 1" = 1'-0"



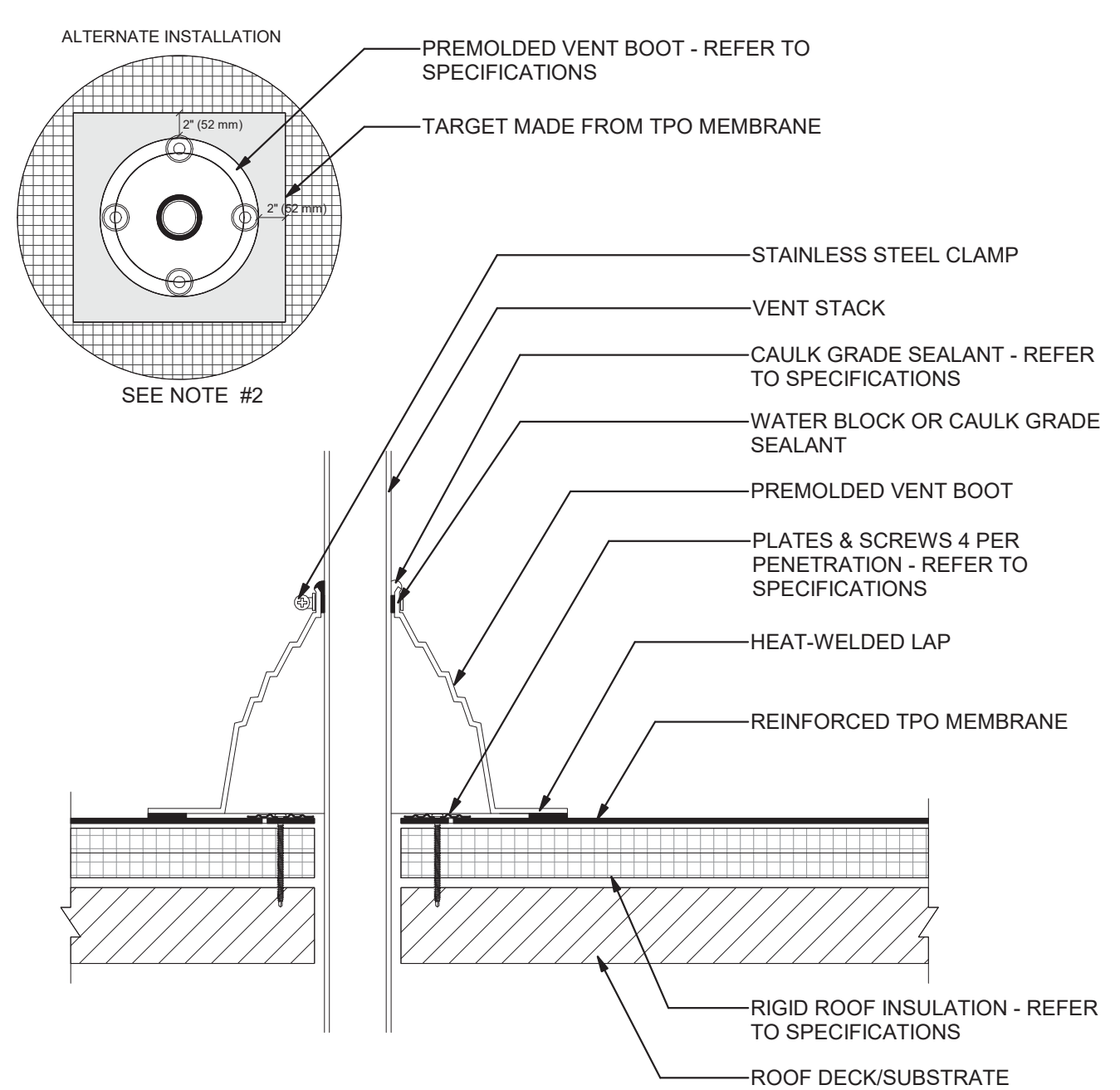
3 Head Wall Flashing with Counterflashing Detail  
A3.2 1" = 1'-0"



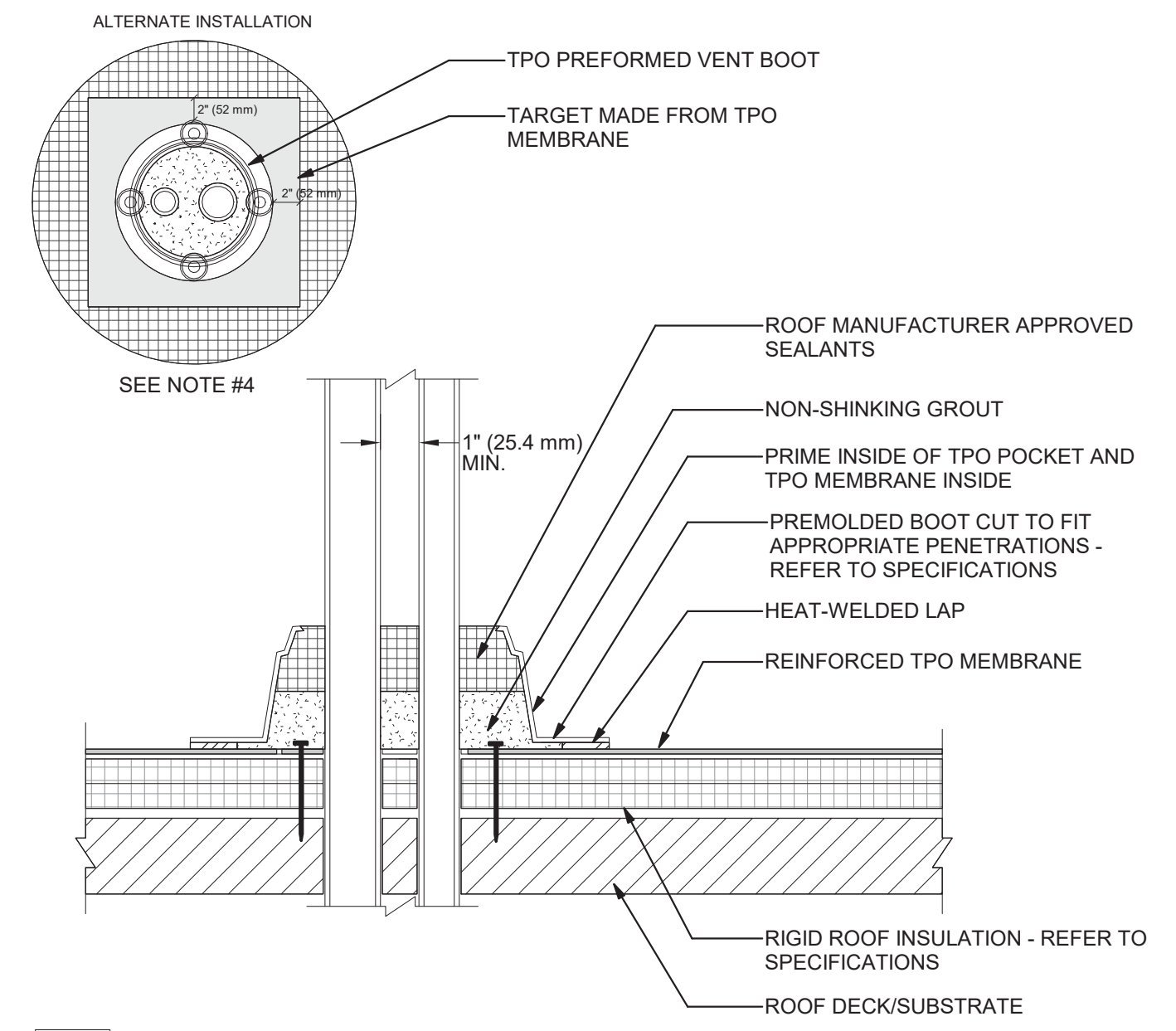
4 Parapet Detail  
A3.2 1 1/2" = 1'-0"



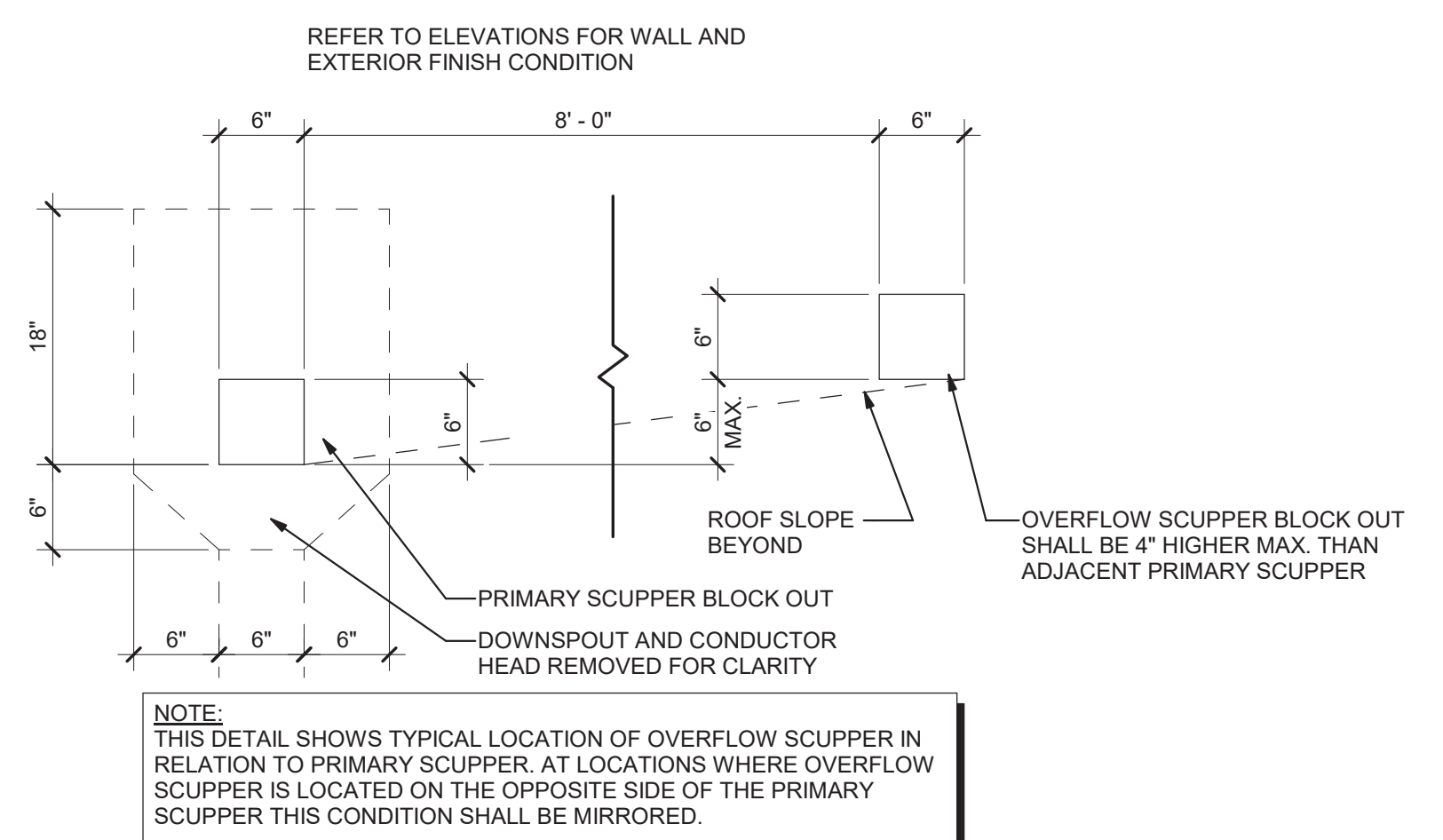
5 Equipment Curb Detail  
A3.2 N.T.S.



7 Premolded Vent Boot Flashing Detail  
A3.2 1" = 1'-0"



8 Preformed Penetration Flashing Detail  
A3.2 1" = 1'-0"



6 Typical Scupper Elevation Detail  
A3.2 N.T.S.

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ROOF DETAILS

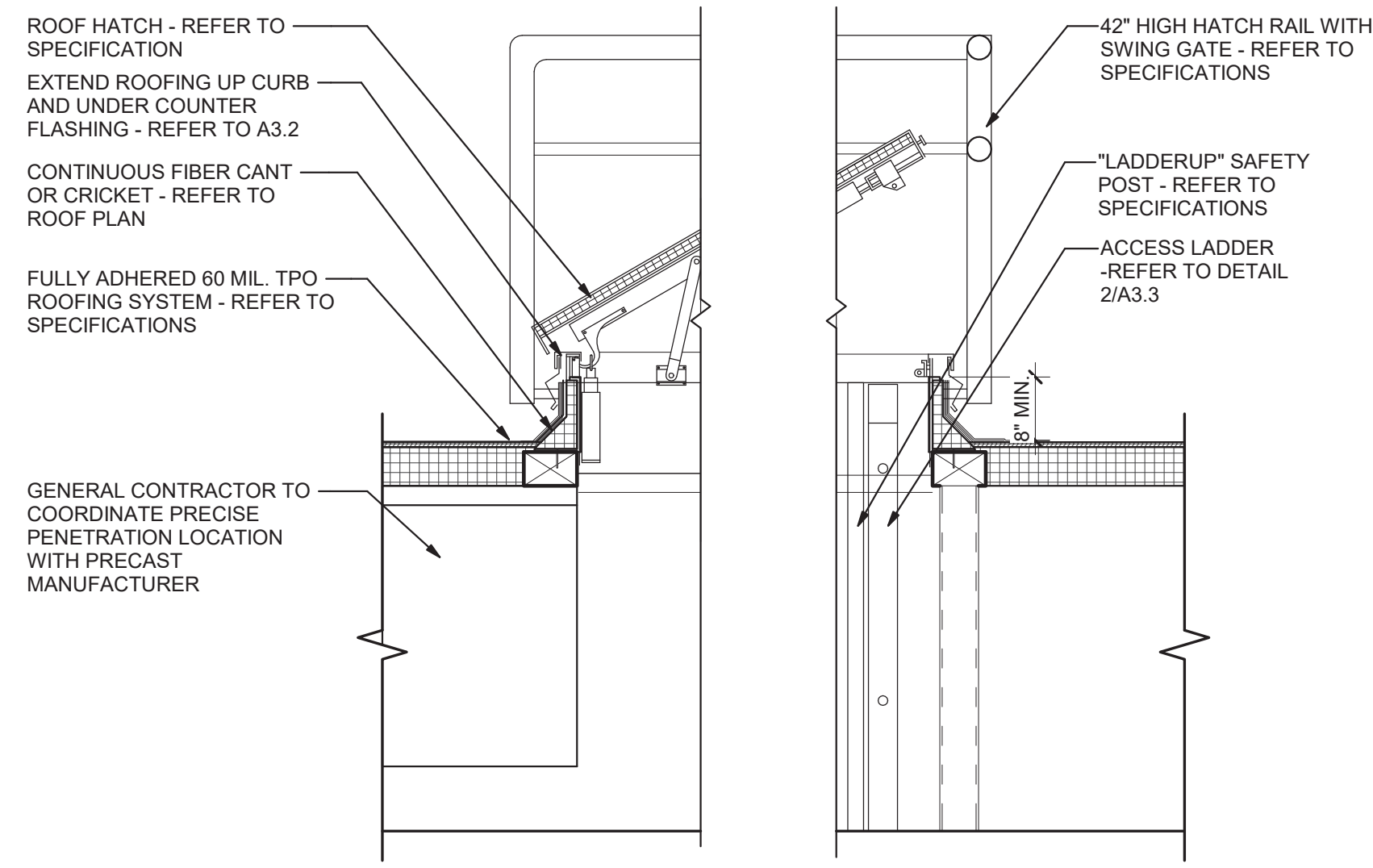
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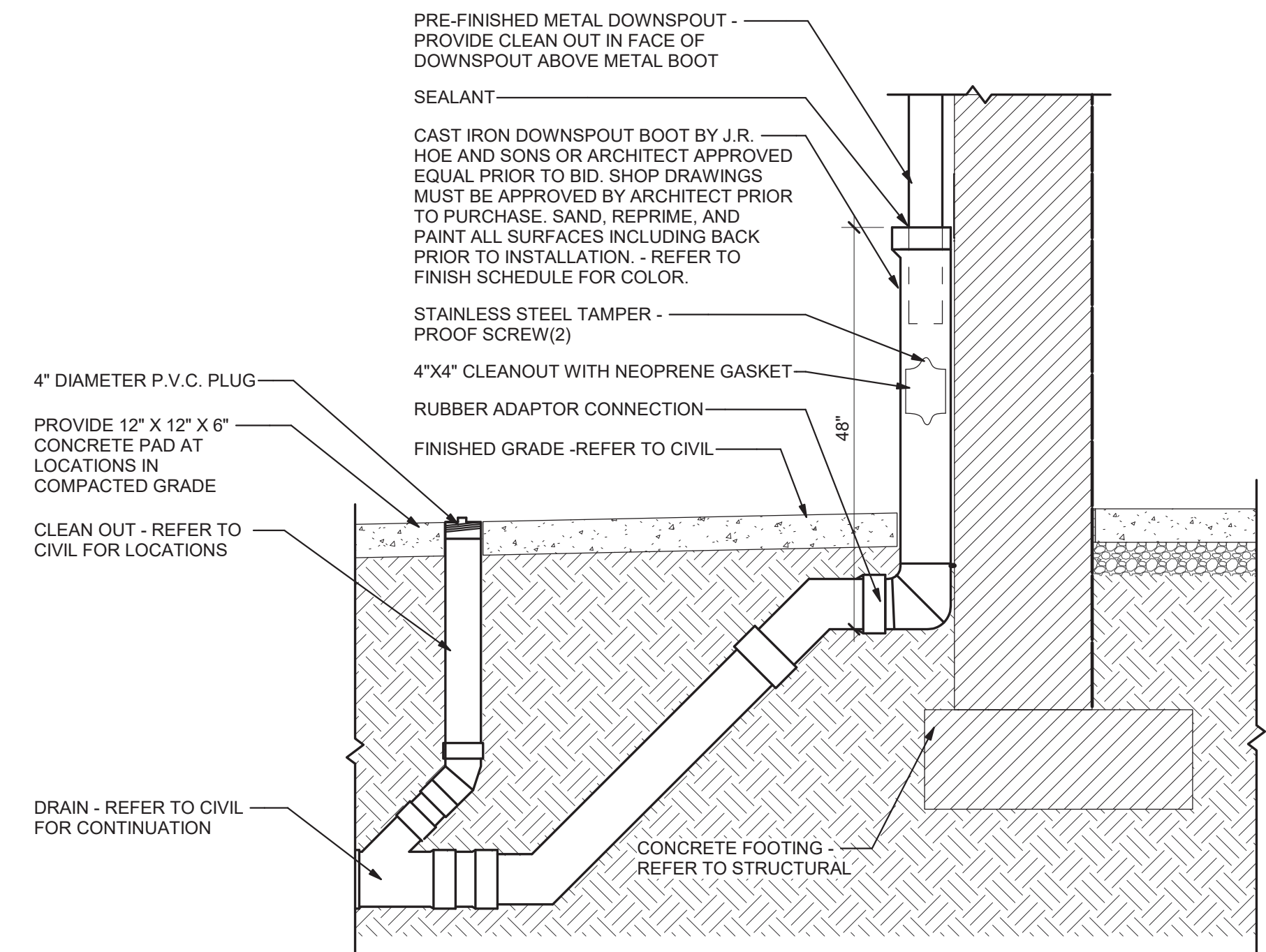
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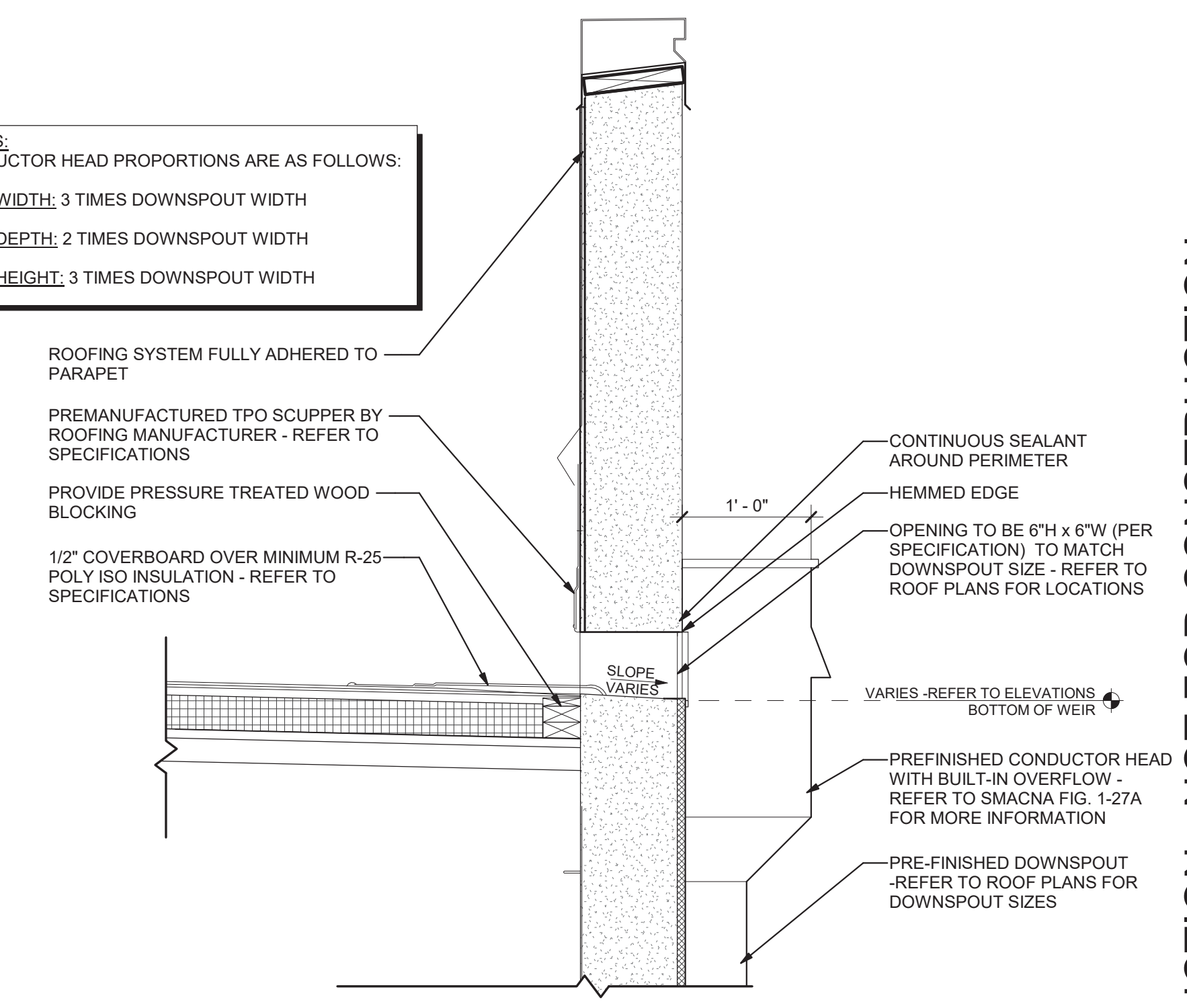


1 Roof Access Hatch Section  
 A3.3 3/4" = 1'-0"

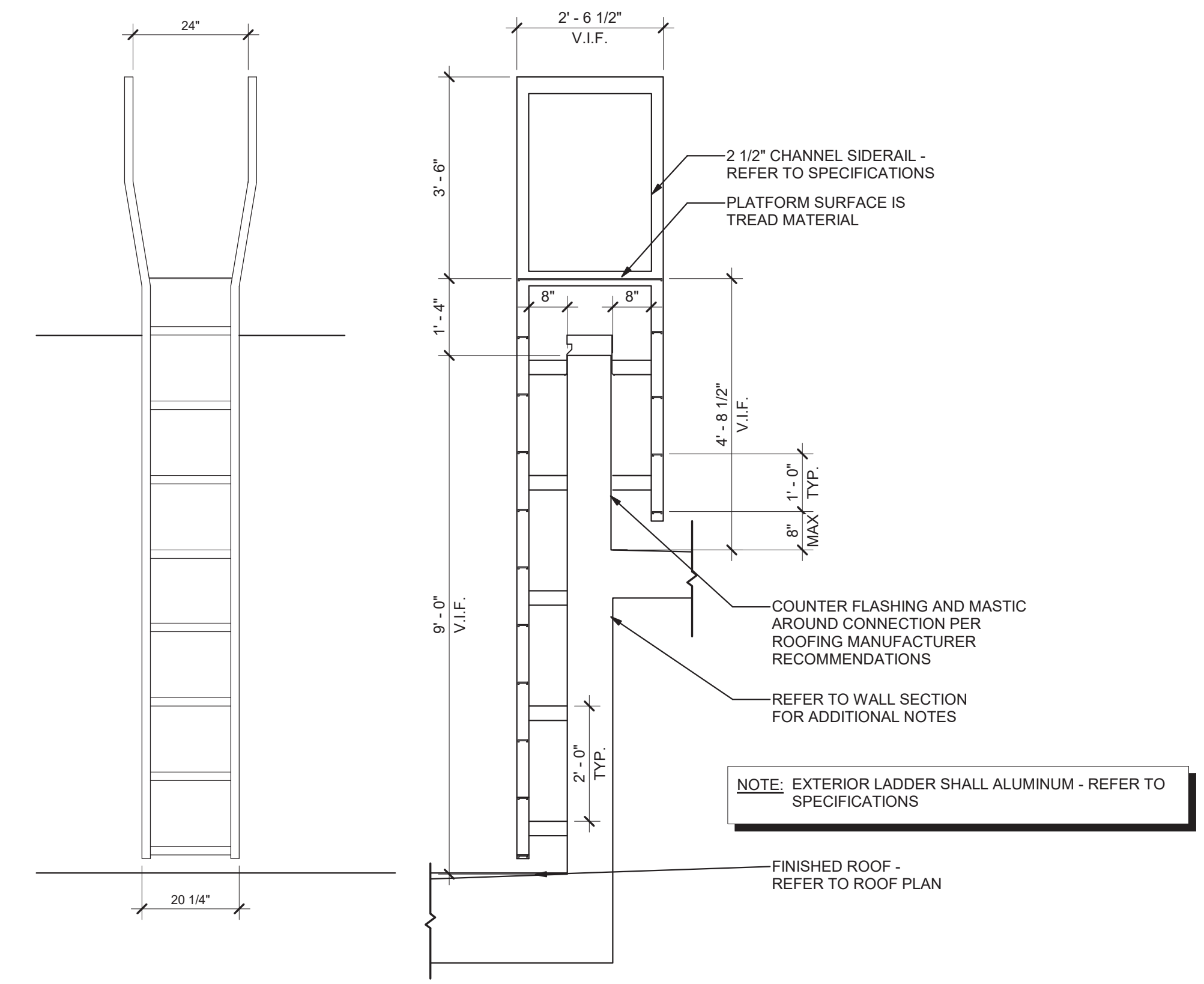


2 Typical Downspout Detail  
 A3.3 3/4" = 1'-0"

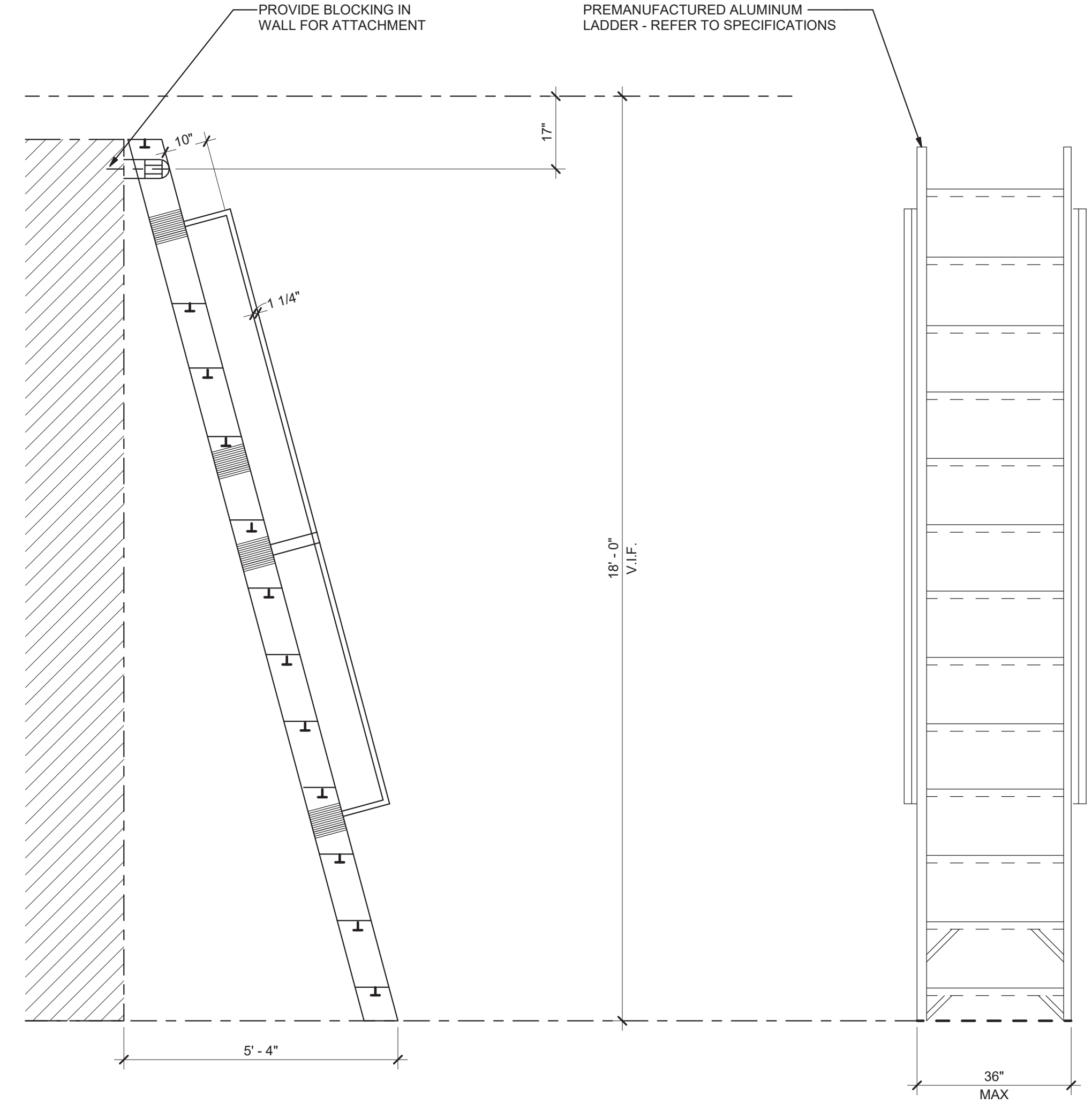
NOTES:  
 CONDUCTOR HEAD PROPORTIONS ARE AS FOLLOWS:  
 FACE WIDTH: 3 TIMES DOWNSPOUT WIDTH  
 FACE DEPTH: 2 TIMES DOWNSPOUT WIDTH  
 FACE HEIGHT: 3 TIMES DOWNSPOUT WIDTH



3 Typical Primary Scupper Detail  
 A3.3 1" = 1'-0"



4 Exterior Roof Parapet Ladder Section Details  
 A3.3 1/2" = 1'-0"



5 Roof Ladder Elevation  
 A3.3 1/2" = 1'-0"

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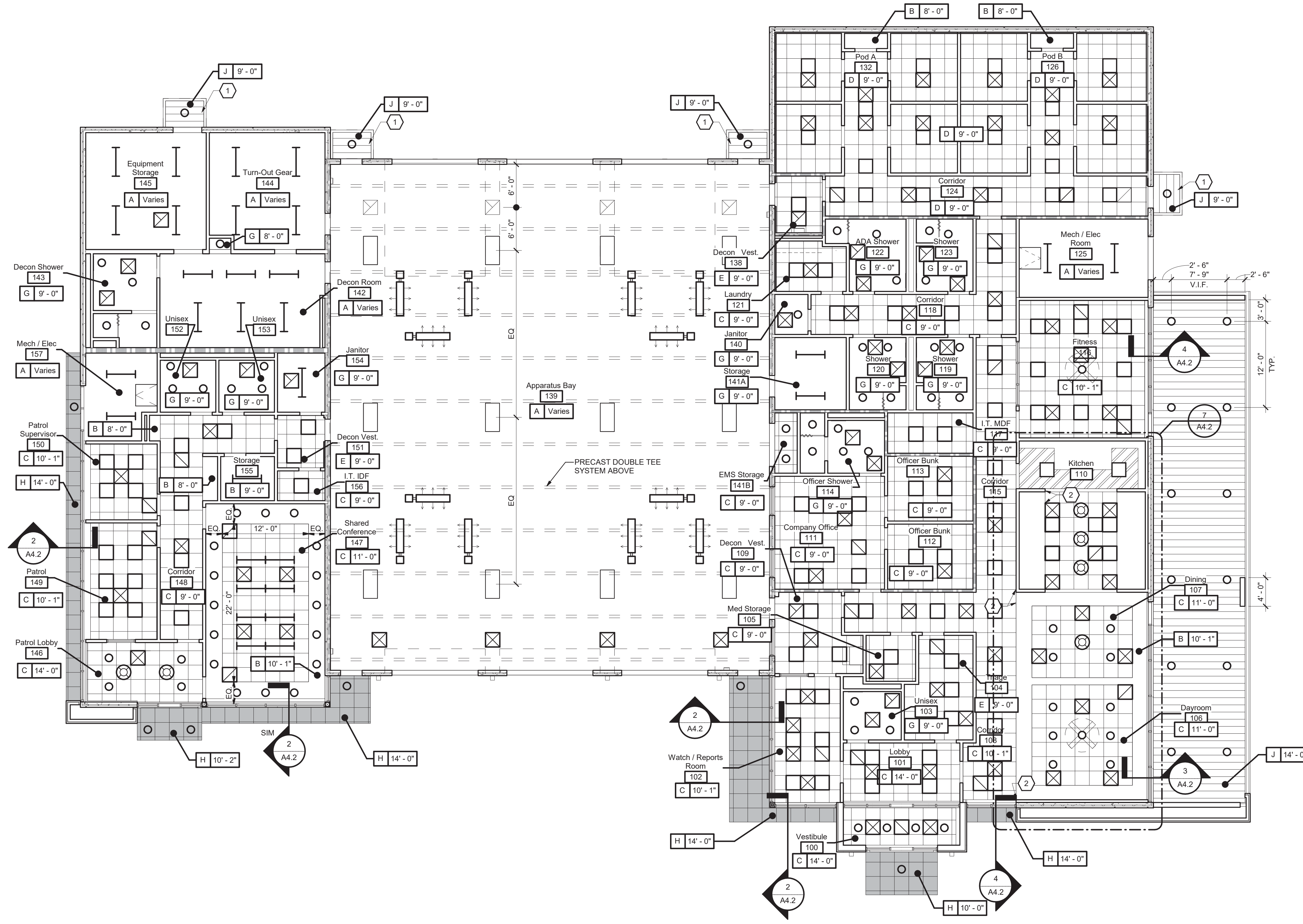
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 PROJECT

A3.3



1 Reflected Ceiling Plan  
 A4.1 1/8" = 1'-0"

### RCP Legend

CEILING TYPE	CEILING HEIGHT
	<b>A 8'-6"</b>

	LAY-IN LIGHT FIXTURE - REFER TO ELECTRICAL		SECURITY CAMERA - REFER TO ELECTRICAL
	SURFACE MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL		MOTION SENSOR - REFER TO ELECTRICAL
	STRIP LIGHT FIXTURE - REFER TO ELECTRICAL		SMOKE DETECTOR - REFER TO ELECTRICAL
	RECESSED DOWNLIGHT FIXTURE - REFER TO ELECTRICAL		SPRINKLER HEAD - REFER TO PLUMBING
	INTERIOR WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL		CEILING FAN - REFER TO ELECTRICAL
	EXTERIOR WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL		PROJECTOR - REFER TO LOW VOLTAGE
	DECORATIVE PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL		PROJECTOR SCREEN - REFER TO LOW VOLTAGE
	EXIT LIGHT FIXTURE - REFER TO ELECTRICAL		HVAC SUPPLY DIFFUSER - REFER TO MECHANICAL
	WALL MOUNTED EMERGENCY LIGHT FIXTURE - REFER TO ELECTRICAL		HVAC RETURN GRILLE - REFER TO MECHANICAL
	OCCUPANCY SENSOR - REFER TO ELECTRICAL		EXHAUST GRILL - REFER TO MECHANICAL
	PAGING SPEAKER - REFER TO ELECTRICAL		UNIT HEATER - REFER TO MECHANICAL
	RADIO SPEAKER - REFER TO ELECTRICAL		INFRARED HEATER - REFER TO MECHANICAL

NOTE: NOT ALL SYMBOLS APPEAR ON PLAN

### Ceiling General Notes

- CENTER CEILING GRIDS IN BOTH DIRECTIONS IN EACH ROOM WITH LAY-IN CEILINGS. INSTALL CEILING TRACKS MINIMUM 6" FROM WALL SURFACES IN ALL DIRECTIONS.
- CENTER EXTERIOR DOWNLIGHTS IN BOTH DIRECTIONS. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
- FOR SPECIFICATIONS OF EACH FIXTURE TYPE REFER TO ELECTRICAL DRAWINGS.
- CENTER ALL SPRINKLER HEADS IN CEILING TILES WHERE APPLICABLE.
- PRODUCT TYPES INDICATED ARE BASIS OF DESIGN. REFER TO SPECIFICATIONS.
- COORDINATE CEILING LIGHT FIXTURE WITH HVAC GRILLS. CONTACT ARCHITECT IF CONFLICT OCCURS.
- PROVIDE ADEQUATE ACCESS AND LABEL CEILING TRACKS FOR EQUIPMENT, FITTINGS, VALVES, ETC. THAT ARE NOT EXPOSED ABOVE CEILING AND BEHIND WALL FINISHES. OPENINGS SHALL BE PROTECTED AS APPROPRIATE FOR THE FIRE RESISTANCE RATING OF THE BARRIER PER NFPA 101 LIFE SAFETY CODE. REFER TO SIGNAGE SPECIFICATIONS.

### Ceiling Schedule

A	OPEN TO CONCRETE DOUBLE TEE ROOF STRUCTURE
B	5/8" GYPSUM BOARD ATTACHED TO LIGHT GAUGE METAL FRAMING USING TYPE "S" SCREWS @ 12" O.C. MAX. REFER TO DIVISION 09 "GYPSUM BOARD ASSEMBLIES" FOR ADDITIONAL INFORMATION. FINISH CEILING WITH A LEVEL 5 DRYWALL FINISH.
C	ACT-1: 2' X 2' ACOUSTICAL CEILING TILE SYSTEM - REFER TO SPECIFICATIONS
D	ACT-2: 2' X 2' ACOUSTICAL CEILING TILE SYSTEM - BLACK - REFER TO SPECIFICATIONS
E	ACT-3: 2' X 2' VINYL COATED ACOUSTICAL CEILING TILES
F	ACT-4: STAINLESS STEEL 2' X 2' CEILING TILE SYSTEM - REFER TO SPECIFICATIONS
G	5/8" MOISTURE RESISTANT GYPSUM BOARD ATTACHED TO LIGHT GAUGE METAL FRAMING USING TYPE "S" SCREWS @ 12" O.C. MAX. REFER TO DIVISION 09 "GYPSUM BOARD ASSEMBLIES" FOR ADDITIONAL INFORMATION. FINISH CEILING WITH A LEVEL 5 DRYWALL FINISH.
H	ALUMINUM COMPOSITE PANELS - REFER TO WALL SECTIONS
J	PREFINISHED METAL SOFFIT PANELS - REFER TO WALL SPECIFICATIONS

### RCP Keynotes

1	PRE-FINISHED PRE-ENGINEERED METAL CANOPY - REFER TO A3.2 DRAWINGS
2	ALIGN FINISHES

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**GILLEM PUBLIC SAFETY BUILDING**

2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

**PROJECT**

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REFLECTED CEILING PLAN, NOTES AND DETAILS

DESIGN	BKS	PPI	LGD

**SHEET TITLE**

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NO. DESCRIPTION  
 10/26/21 RELEASED FOR BID

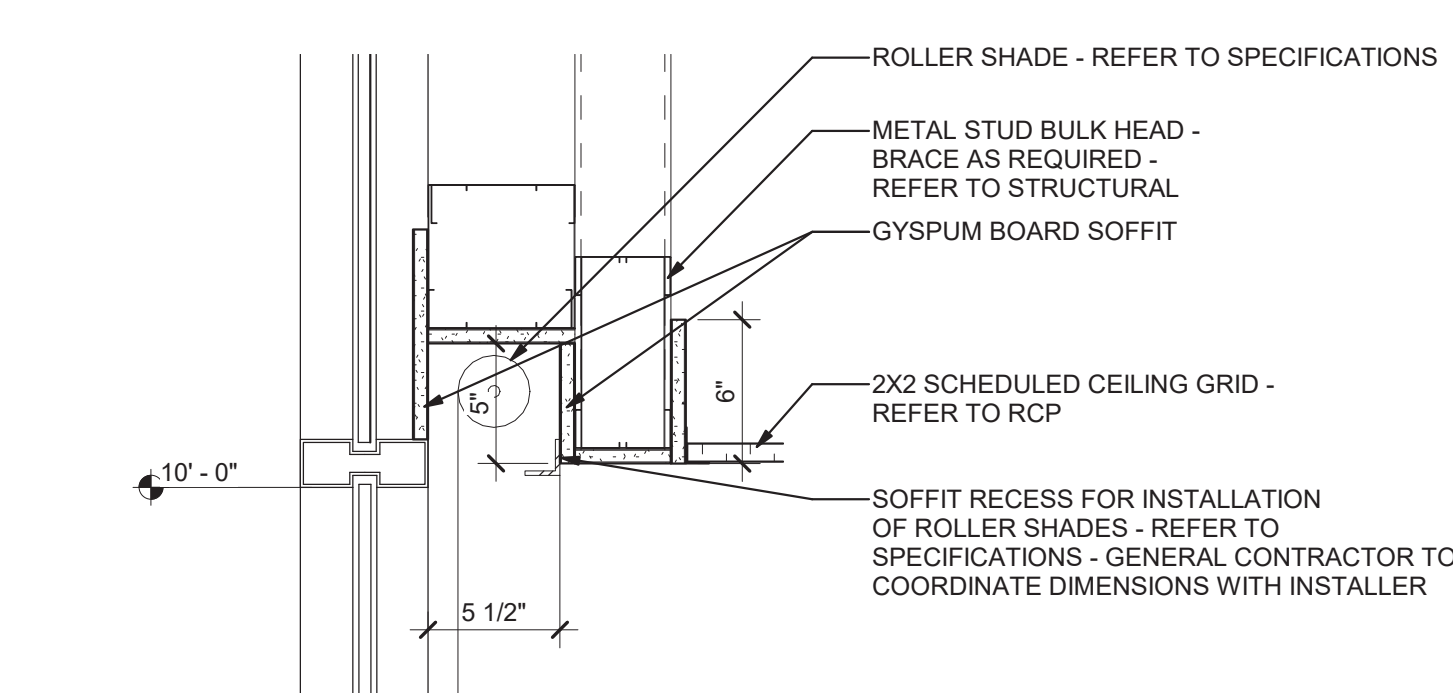
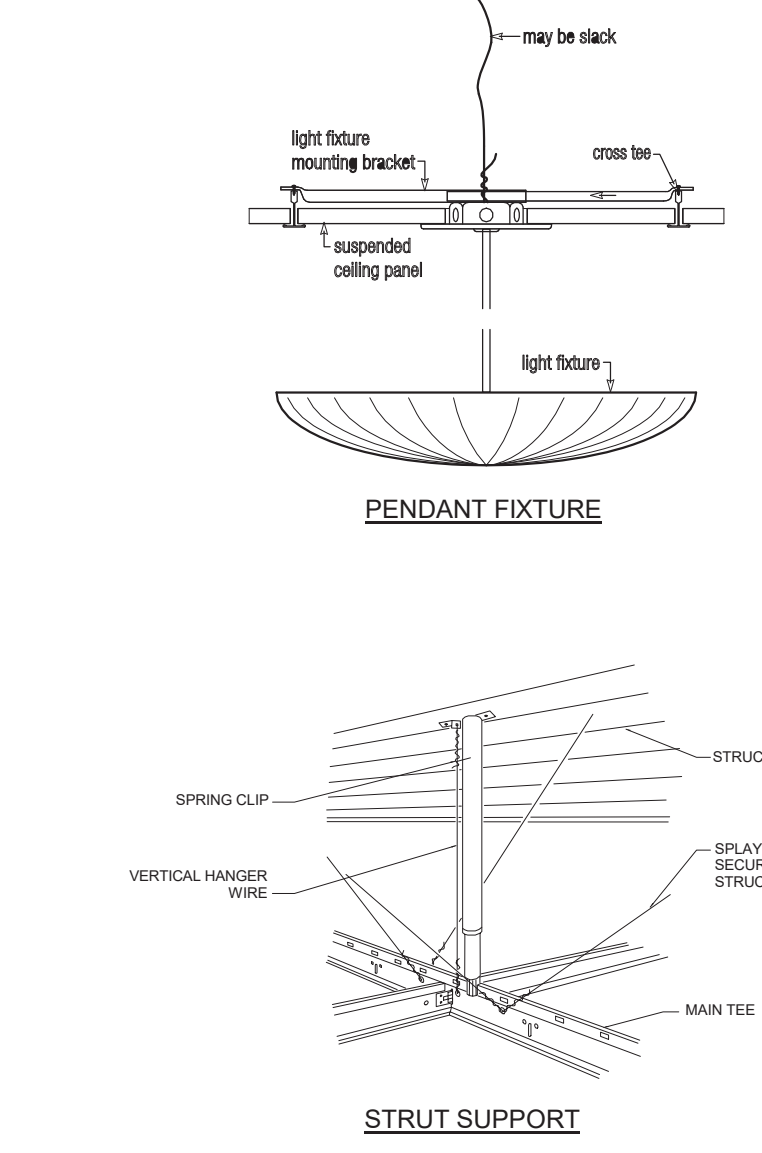
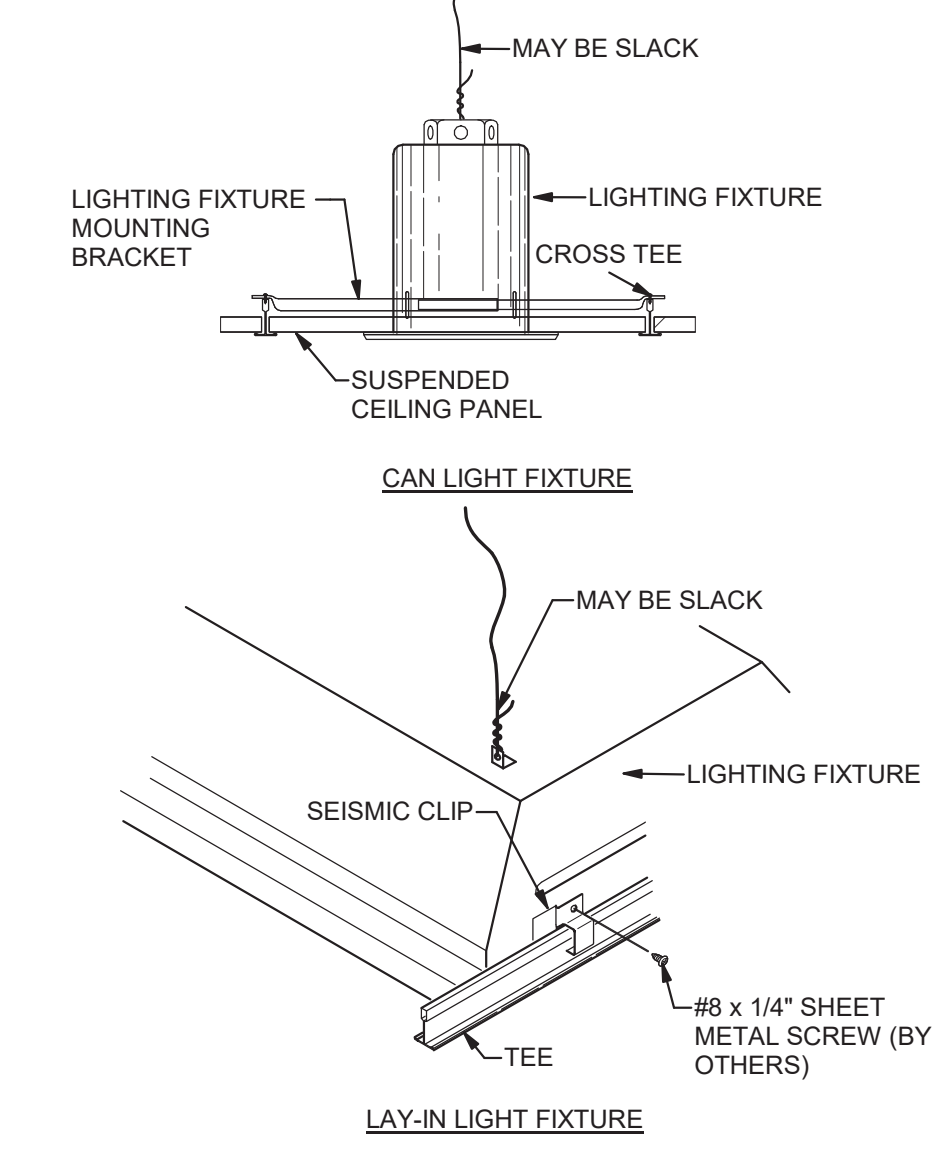
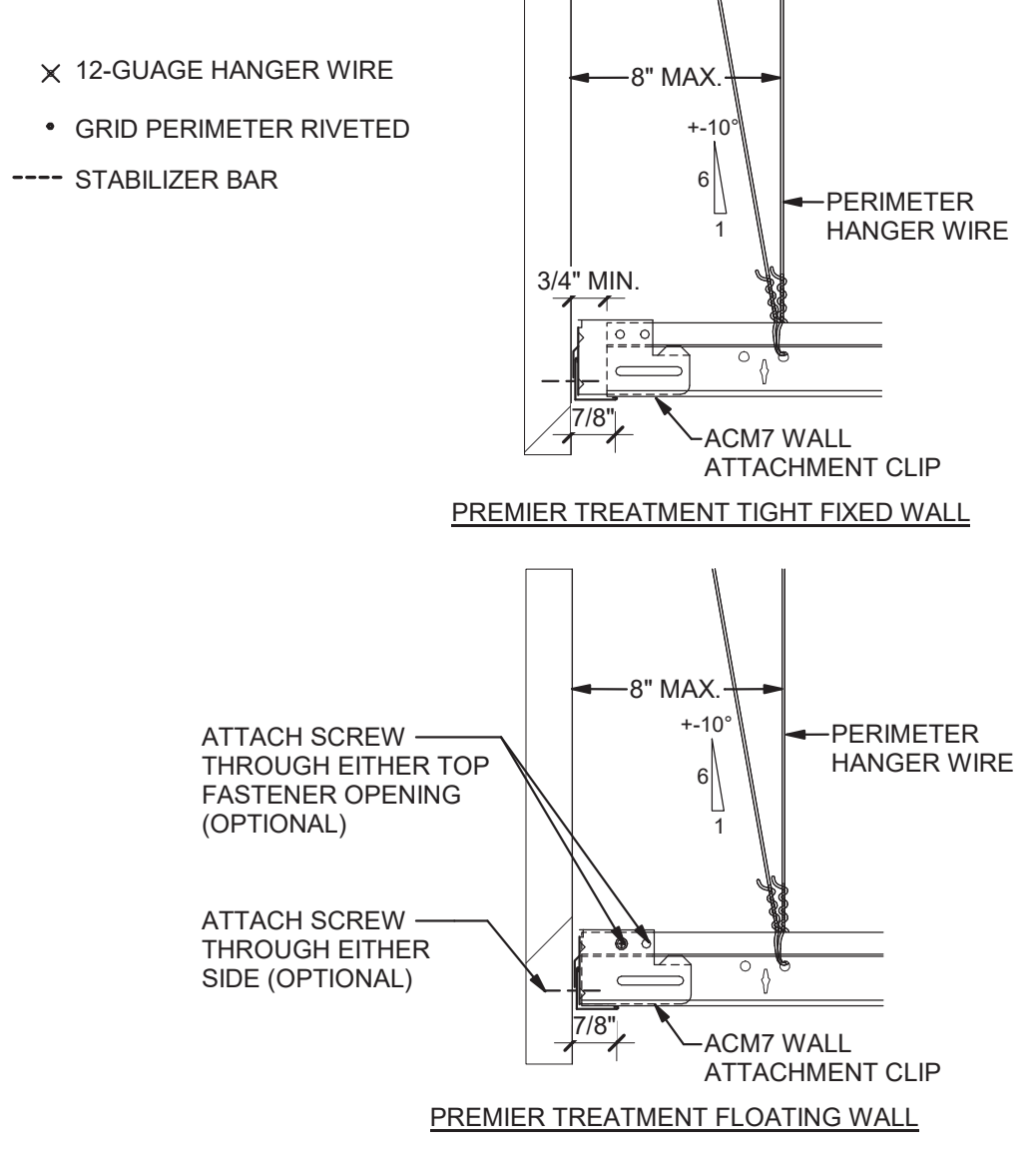
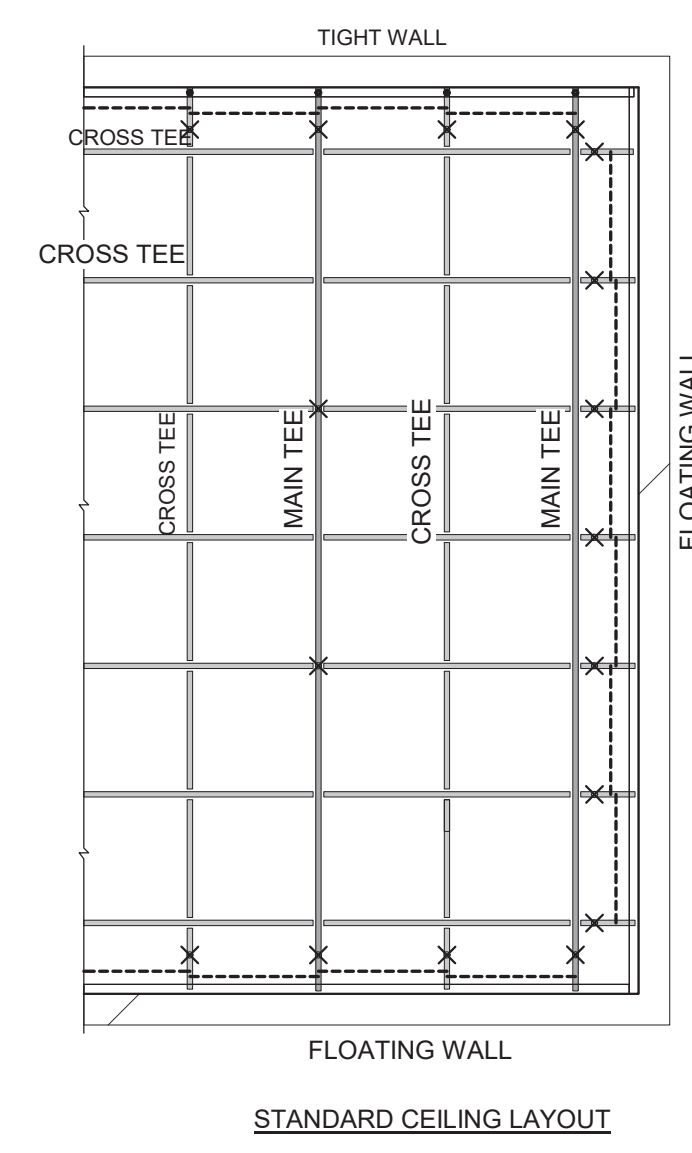
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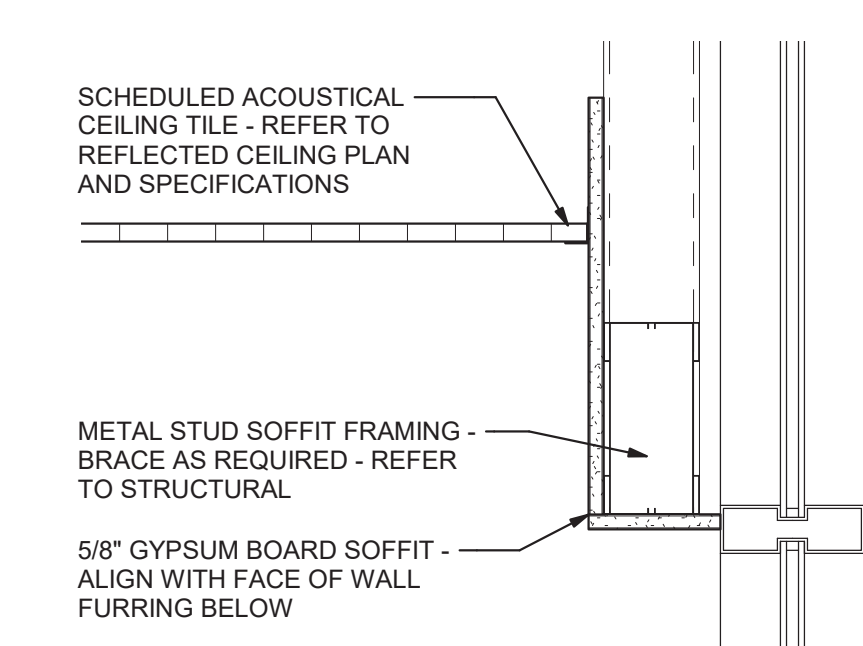
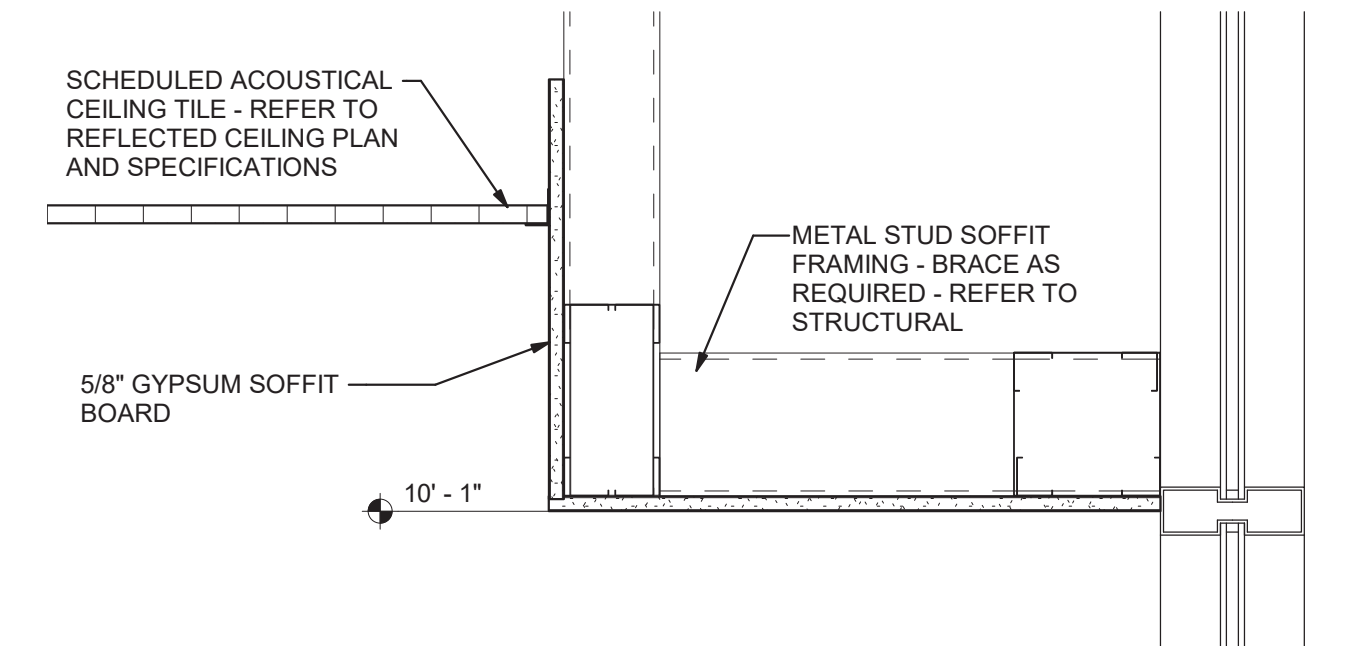
10/01/2021 DATE  
 A21-006 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER

**A4.1**

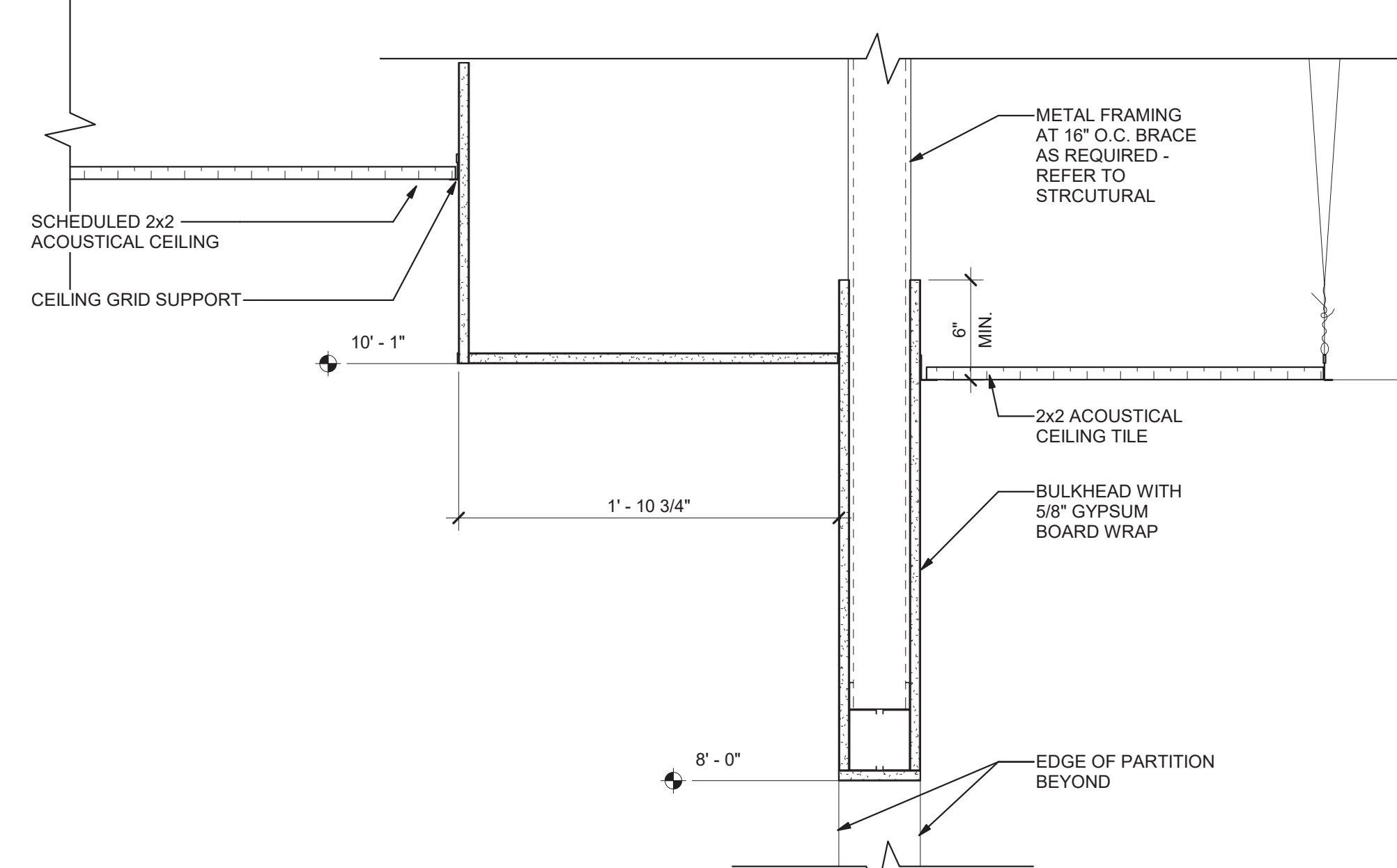
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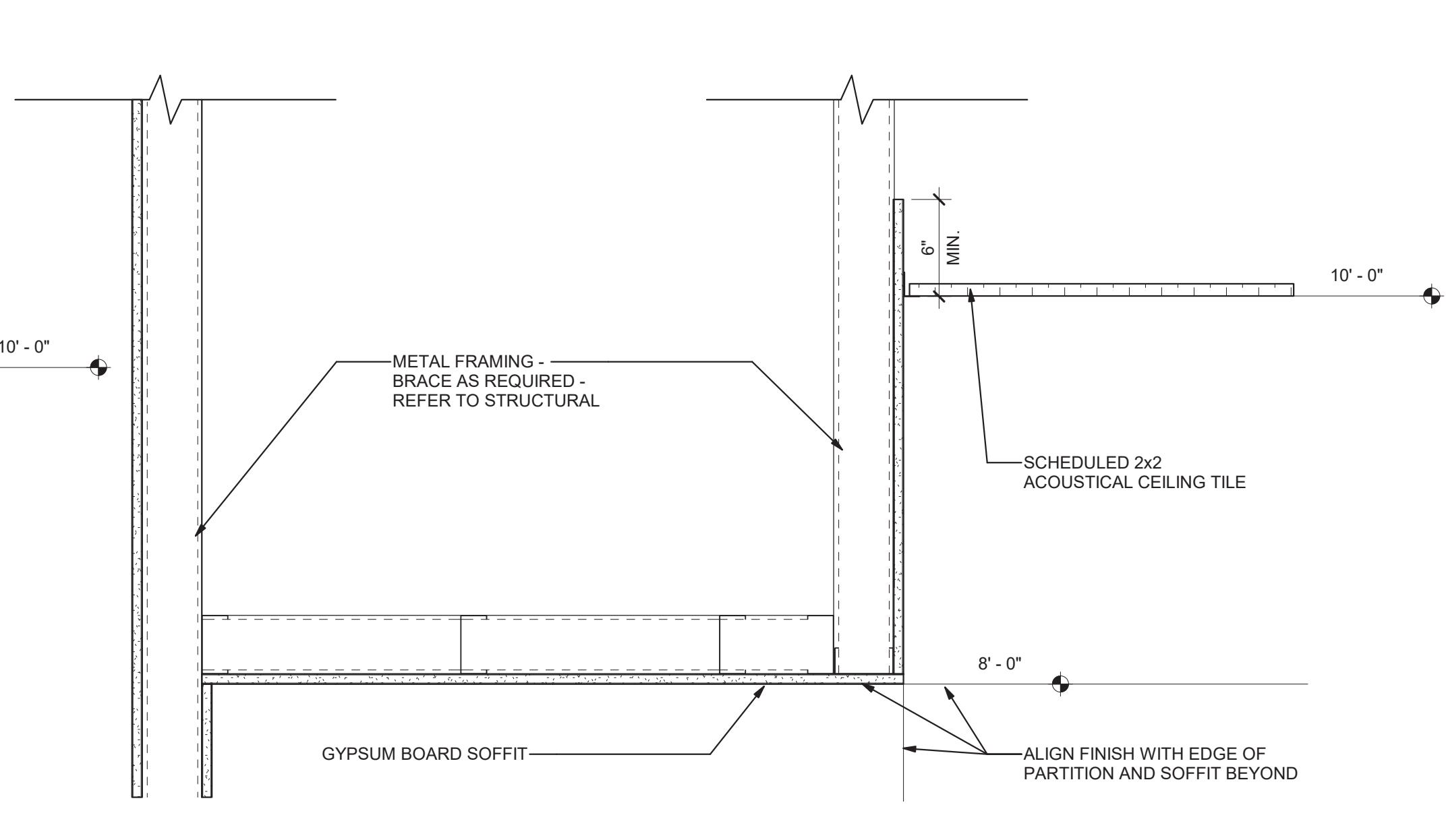
1 Seismic Design Category "C" Ceiling Details  
 A4.2 1/2" = 1'-0"



3 Gypsum Soffit at Storefront  
 A4.2 1 1/2" = 1'-0"



4 Gypsum Soffit at Storefront  
 A4.2 1 1/2" = 1'-0"



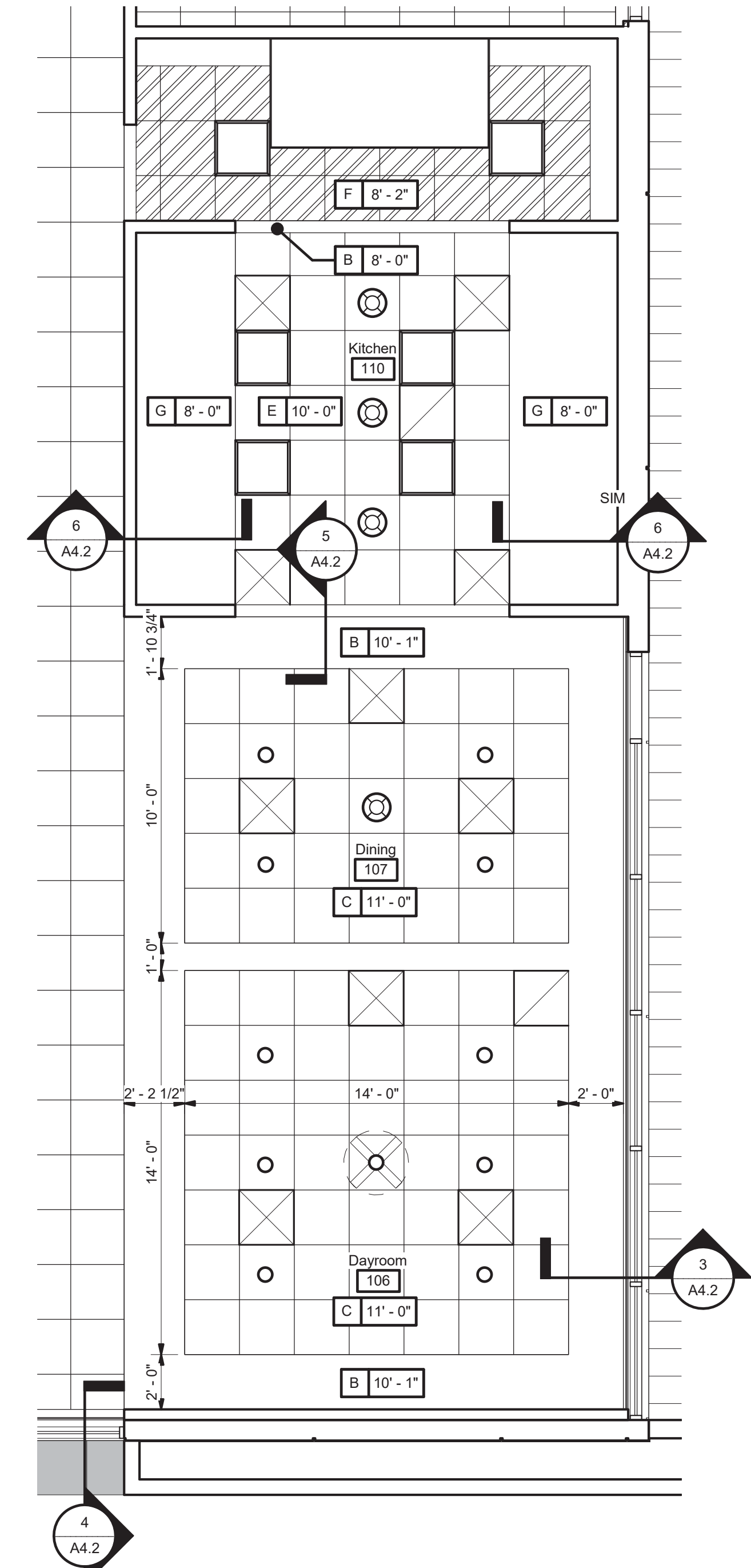
5 Bulkhead Detail at Kitchen  
 A4.2 1 1/2" = 1'-0"



6 Bulkhead Detail at Kitchen  
 A4.2 1 1/2" = 1'-0"



2 Storefront Soffit at Roller Shades  
 A4.2 1 1/2" = 1'-0"



7 Enlarged RCP  
 A4.2 1/4" = 1'-0"



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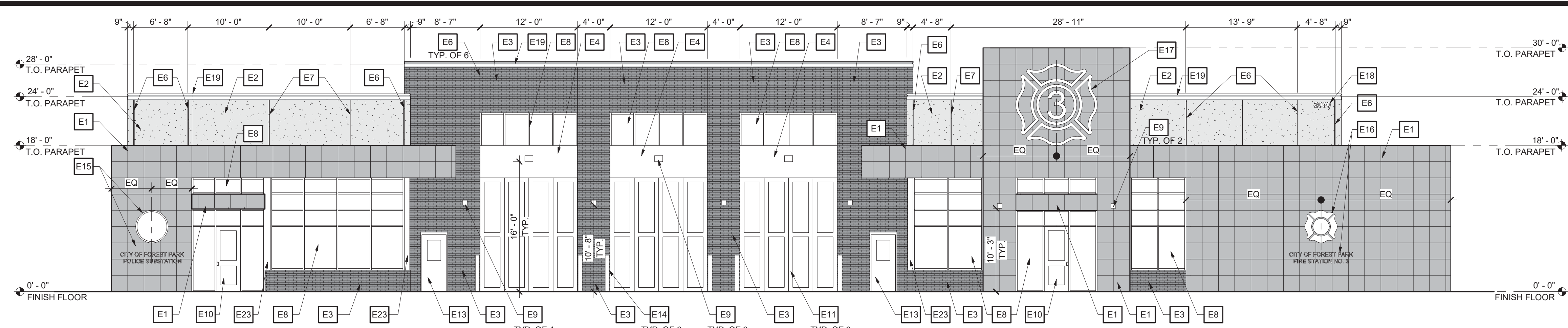
GILLEM PUBLIC SAFETY BUILDING  
 2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

REFLECTED CEILING PLAN DETAILS  
 DESIGN: BKS  
 DRAWN: PPI  
 CHECKED: LGD

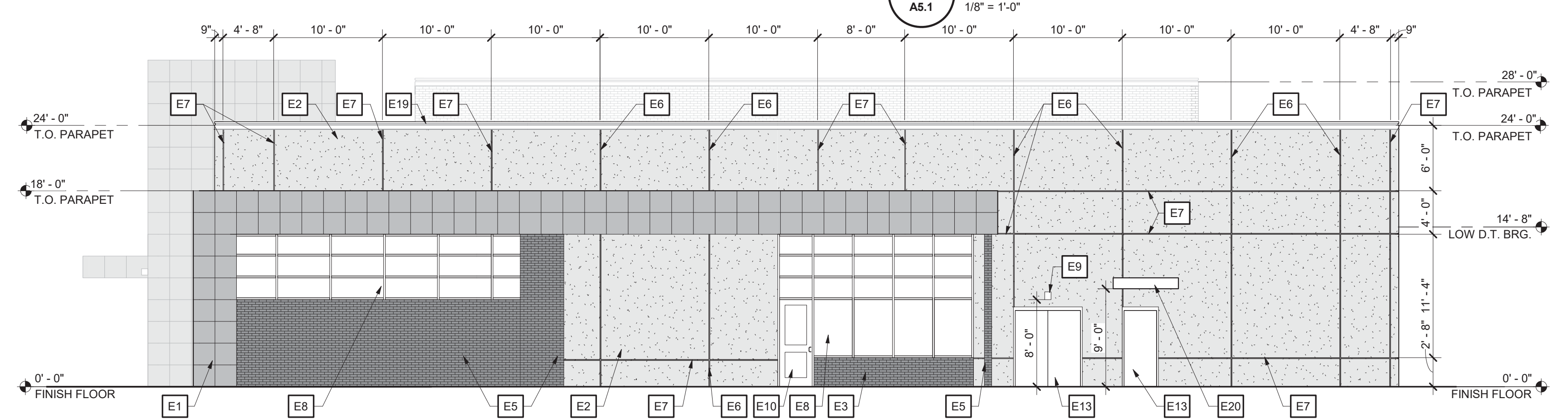
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10/01/2021  
 DATE: A21-006  
 PROJ. NUMBER  
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 FILE NUMBER

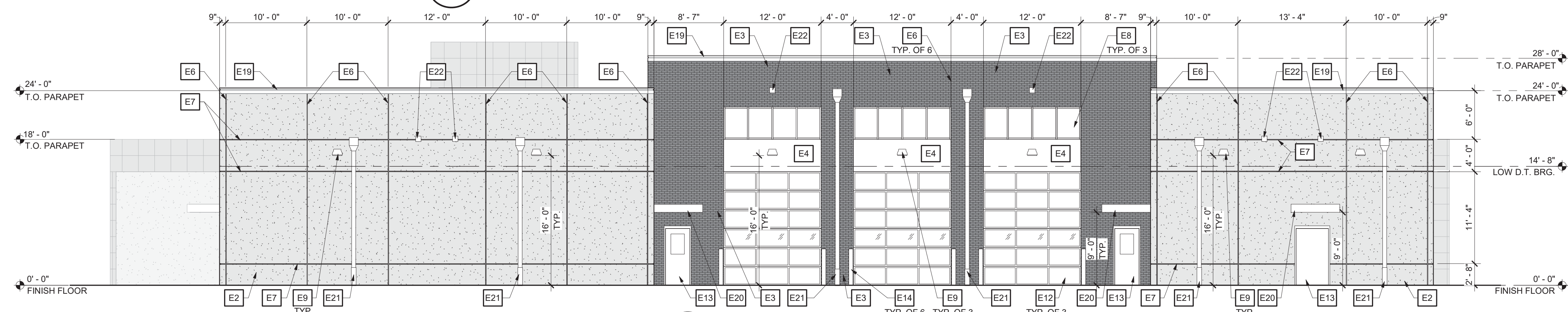
RELEASE  
 SHEET TITLE  
 A4.2



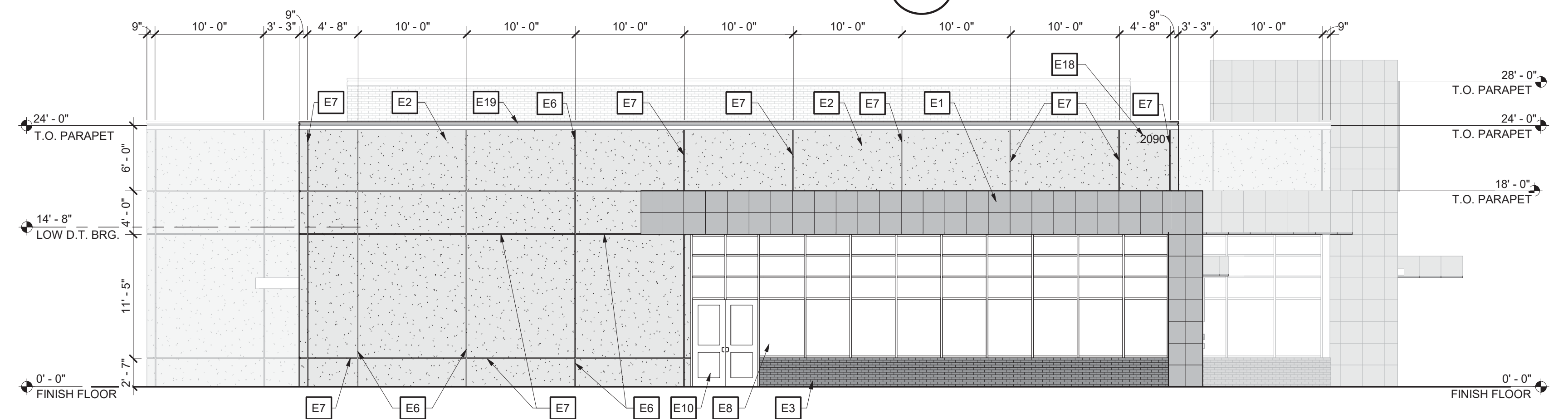
1 South Elevation  
A5.1 1/8" = 1'-0"



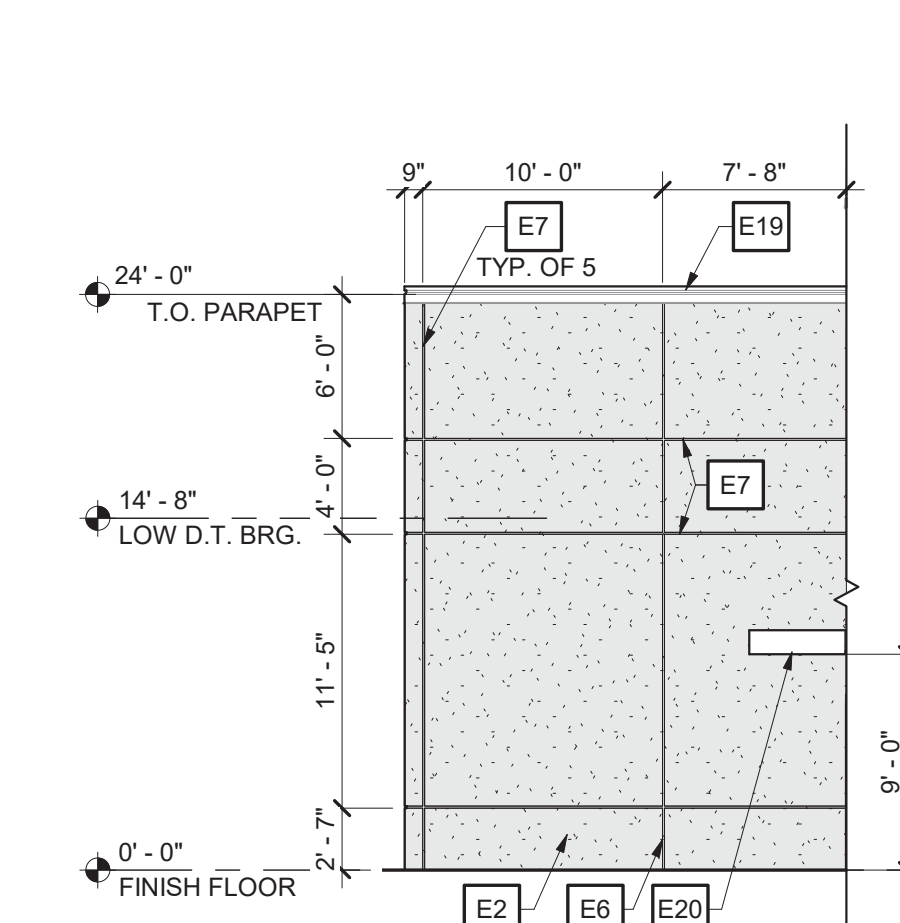
2 East Elevation  
A5.1 1/8" = 1'-0"



3 North Elevation  
A5.1 1/8" = 1'-0"



4 West Elevation  
A5.1 1/8" = 1'-0"



6 West Elevation  
A5.1 1/8" = 1'-0"

### Elevation Keynotes

- E1 ALUMINUM COMPOSITE METAL PANELS - REFER TO SPECIFICATIONS
- E2 9" INSULATED PRECAST INTEGRAL COLOR CONCRETE PANEL WITH LIGHT SAND BLAST FINISH - REFER TO SPECIFICATIONS
- E3 9" INSULATED PRECAST INTEGRAL COLOR CONCRETE PANEL WITH THIN BRICK FINISH IN RUNNING BOND PATTERN
- E4 8" INSULATED PRECAST CONCRETE PANEL WRAPPED WITH PREFINISHED BREAK METAL TO MATCH APPARATUS BAY DOORS - REFER TO WALL SECTIONS AND SPECIFICATIONS
- E5 8" NON-INSULATED PRECAST INTEGRAL COLOR CONCRETE PANEL SCREEN WALL WITH THIN BRICK FINISH IN RUNNING BOND PATTERN - REFER TO SPECIFICATIONS
- E6 PRECAST CONCRETE PANEL JOINT - REFER TO SPECIFICATIONS
- E7 PRECAST CONCRETE PANEL 1" CHAMFERED REVEAL - REFER TO SPECIFICATIONS
- E8 ALUMINUM STOREFRONT WINDOW - REFER TO A9.2
- E9 EXTERIOR WALL MOUNT FIXTURE - REFER TO ELECTRICAL
- E10 ALUMINUM STOREFRONT ENTRANCE - REFER TO SPECIFICATIONS
- E11 FOUR-FOLD BAY DOORS - REFER TO SPECIFICATIONS
- E12 SECTIONAL OVERHEAD DOOR WITH VISION PANELS AS SHOWN - REFER TO SPECIFICATIONS
- E13 PAINTED EXTERIOR HOLLOW METAL DOOR - REFER TO A9.1 AND FINISH DRAWINGS
- E14 BOLLARD - REFER TO PLAZA PLAN
- E15 EXTERIOR BUILDING MOUNTED POLICE SERVICES LOGO SIGN - REFER TO SPECIFICATIONS AND A10.1
- E16 EXTERIOR BUILDING MOUNTED FIRE SERVICES LOGO SIGN - REFER TO SPECIFICATIONS AND A10.1
- E17 EXTERIOR BUILDING MOUNTED FIRE STATION NUMBER SIGN - REFER TO SPECIFICATIONS AND A10.1
- E18 CAST ALUMINUM ADDRESS NUMBERS SIGN TYPE E - REFER TO SPECIFICATIONS AND A10.1
- E19 PREFINISHED ES-1 COMPLIANT METAL COPING - REFER TO A3.2
- E20 PREENGINEERED METAL CANOPY - REFER TO A3.2
- E21 PREFINISHED METAL COLLECTION HEAD AND DOWNSPOUT - CONNECT TO RAIN LEADER BELOW GRADE - REFER TO A3.3 AND CIVIL
- E22 OVERFLOW SCUPPER - REFER TO A3.2
- E23 STEEL COLUMN WRAPPED WITH PREFINISHED BREAK METAL

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**GILLEM PUBLIC SAFETY BUILDING**  
2090 ANVIL BLOCK ROAD  
FOREST PARK, GA 30294

EXTERIOR ELEVATIONS

DESIGN	BKS	DRAWN	PPI	CHECKED	LGD
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DATE	NO.	DESCRIPTION
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DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

A5.1

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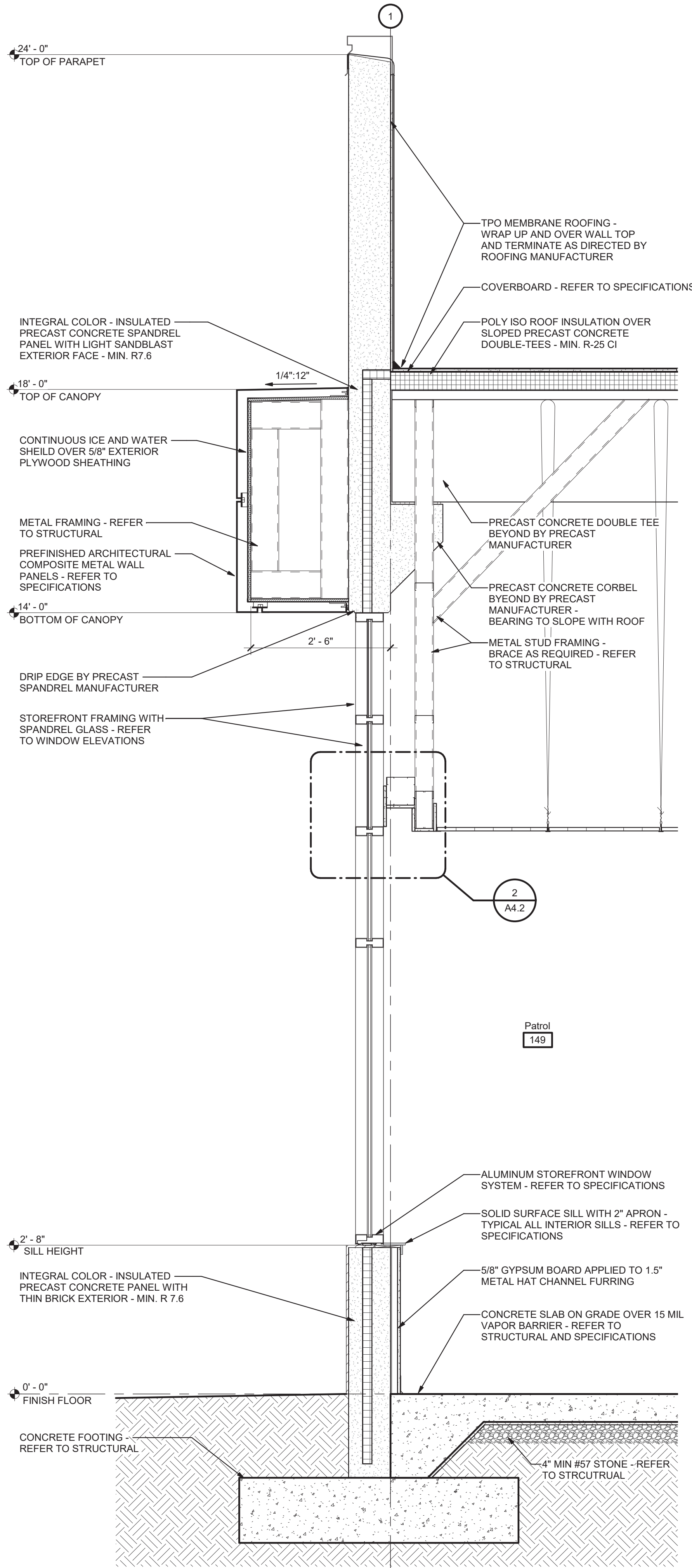
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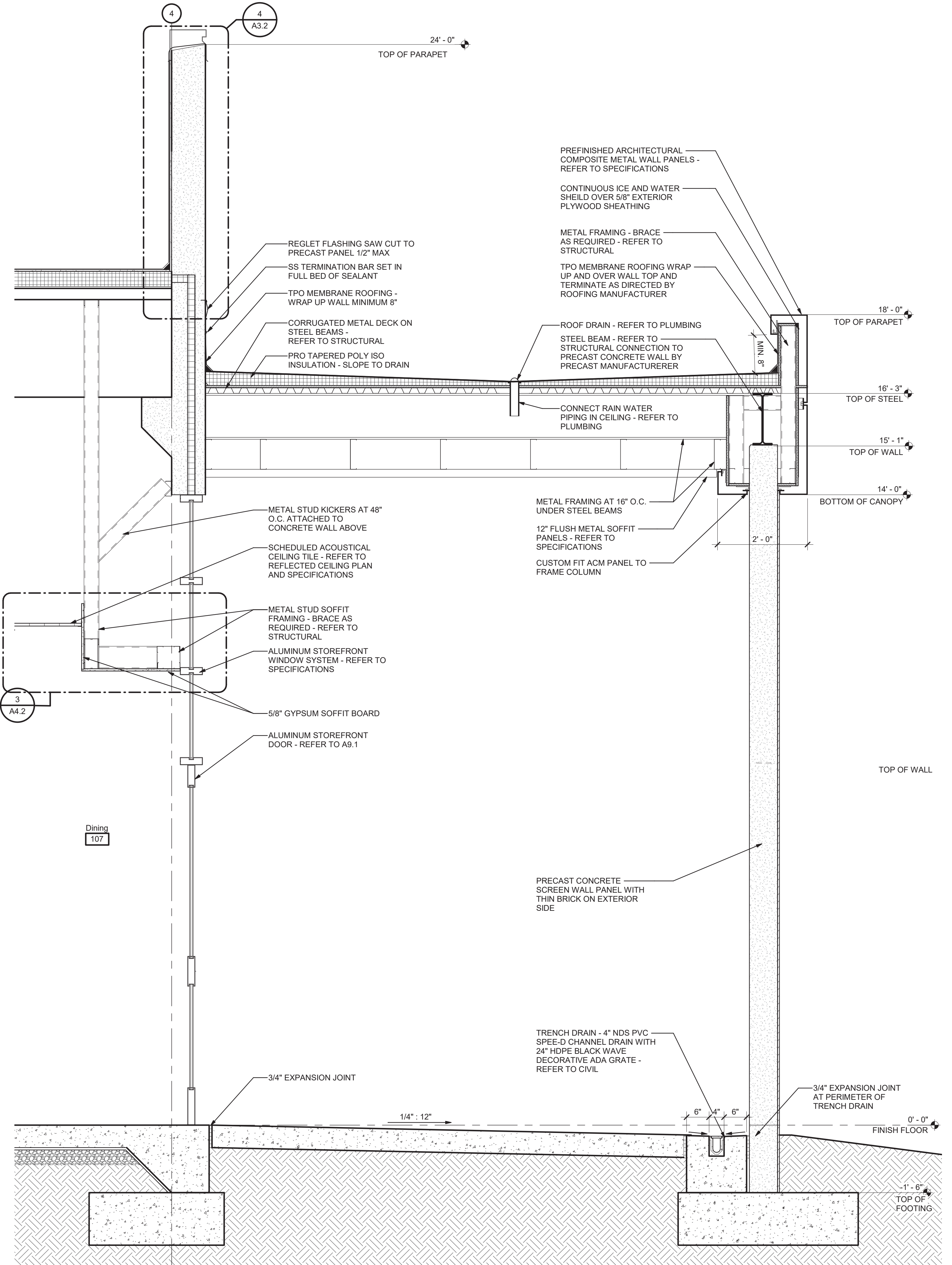
SHEET TITLE

RELEASE





1 Wall Section  
A6.2 3/4" = 1'-0"



2 Wall Section  
A6.2 3/4" = 1'-0"

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**GILLEM PUBLIC**  
**SAFETY BUILDING**  
2090 ANVIL BLOCK ROAD  
FOREST PARK, GA 30294

WALL SECTIONS		DESIGN	DRAWN	CHECKED	LGD
BKS	PPI				

DATE	NO.	DESCRIPTION
10/26/21		RELEASED FOR BID

10/01/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**A6.2**

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SHEET TITLE

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**GILLEM PUBLIC SAFETY BUILDING**  
 2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

**WALL SECTIONS**

DESIGN	BKS	DRAWN	PPI	CHECKED	LGD
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**RELEASE**

NO.	DESCRIPTION	DATE
1	RELEASED FOR BID	10/26/21

**SHEET TITLE**

10/01/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**A6.3**

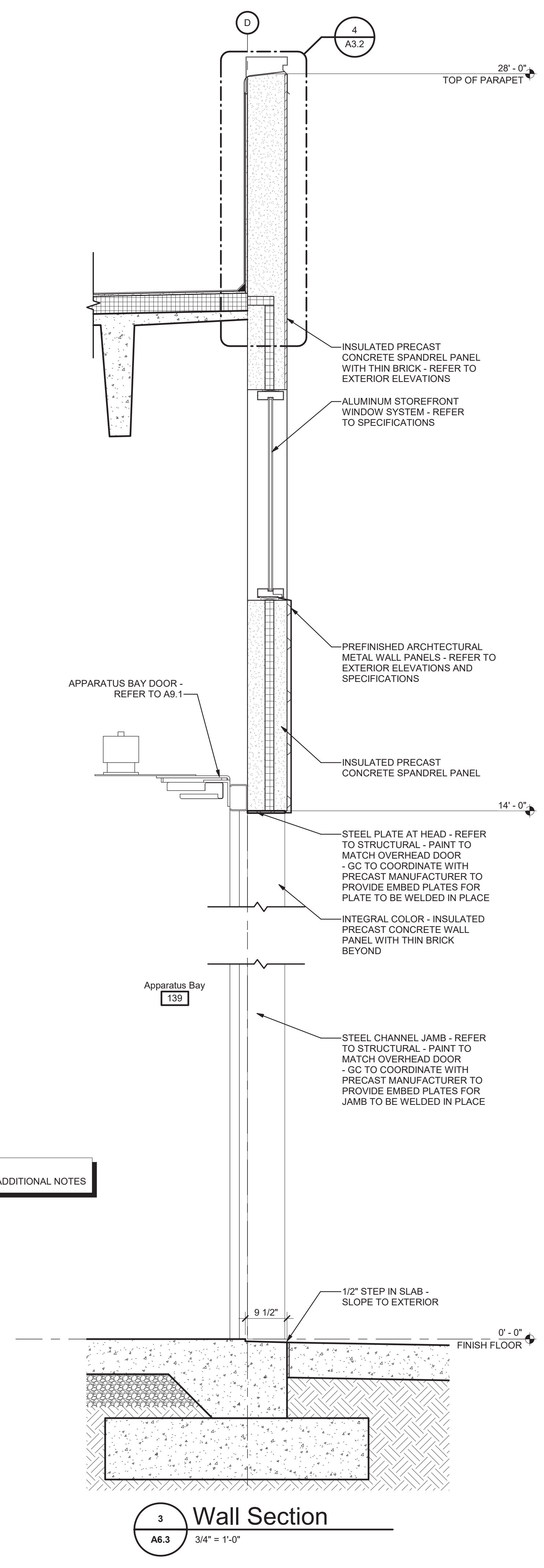
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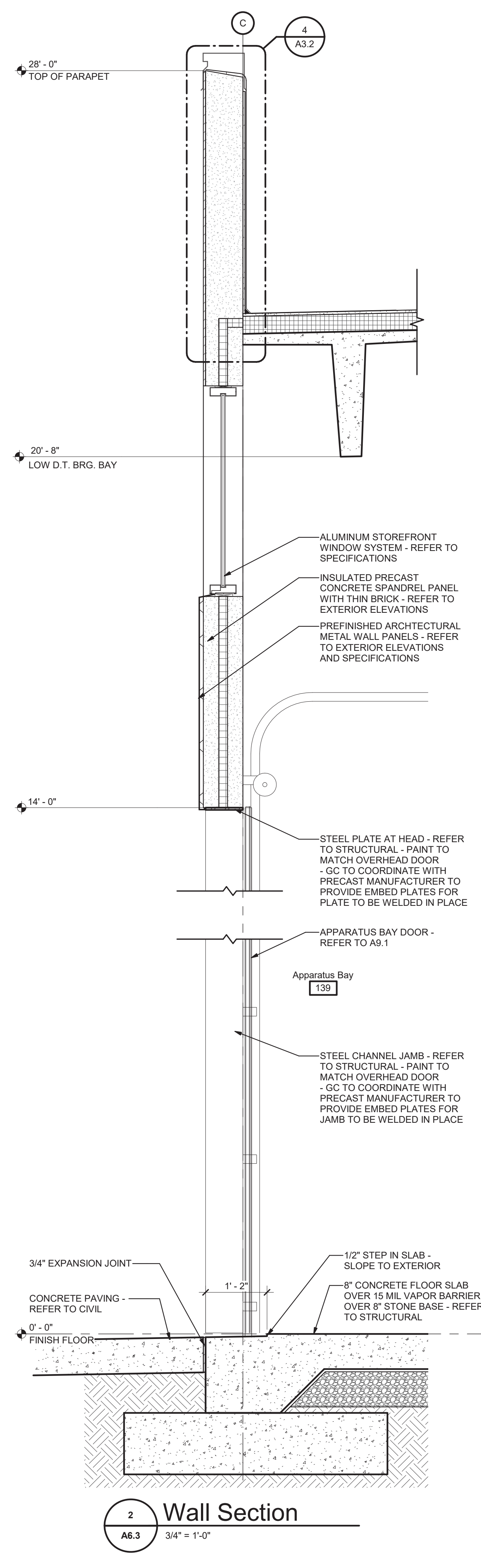
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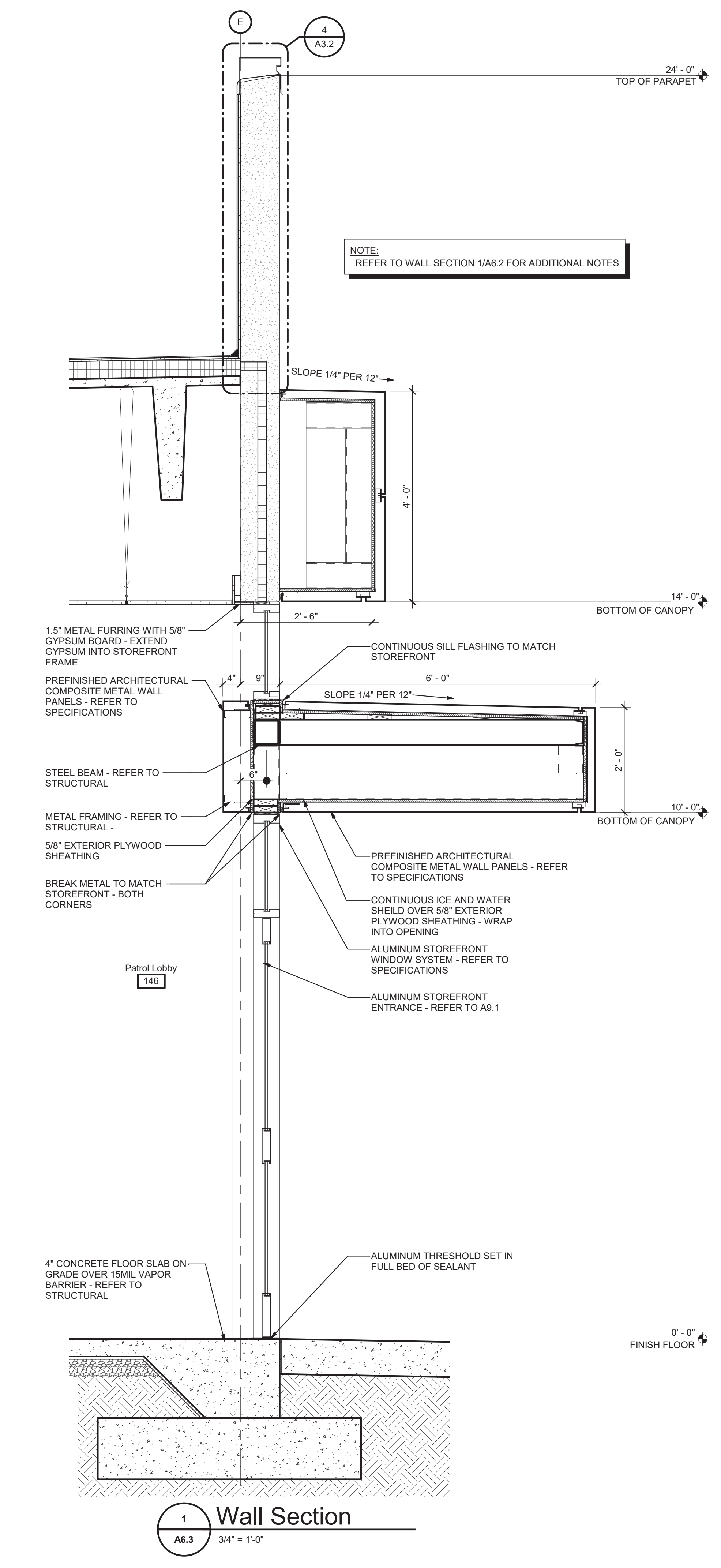
**RELEASE**



**3 Wall Section**  
 A6.3 3/4" = 1'-0"



**2 Wall Section**  
 A6.3 3/4" = 1'-0"

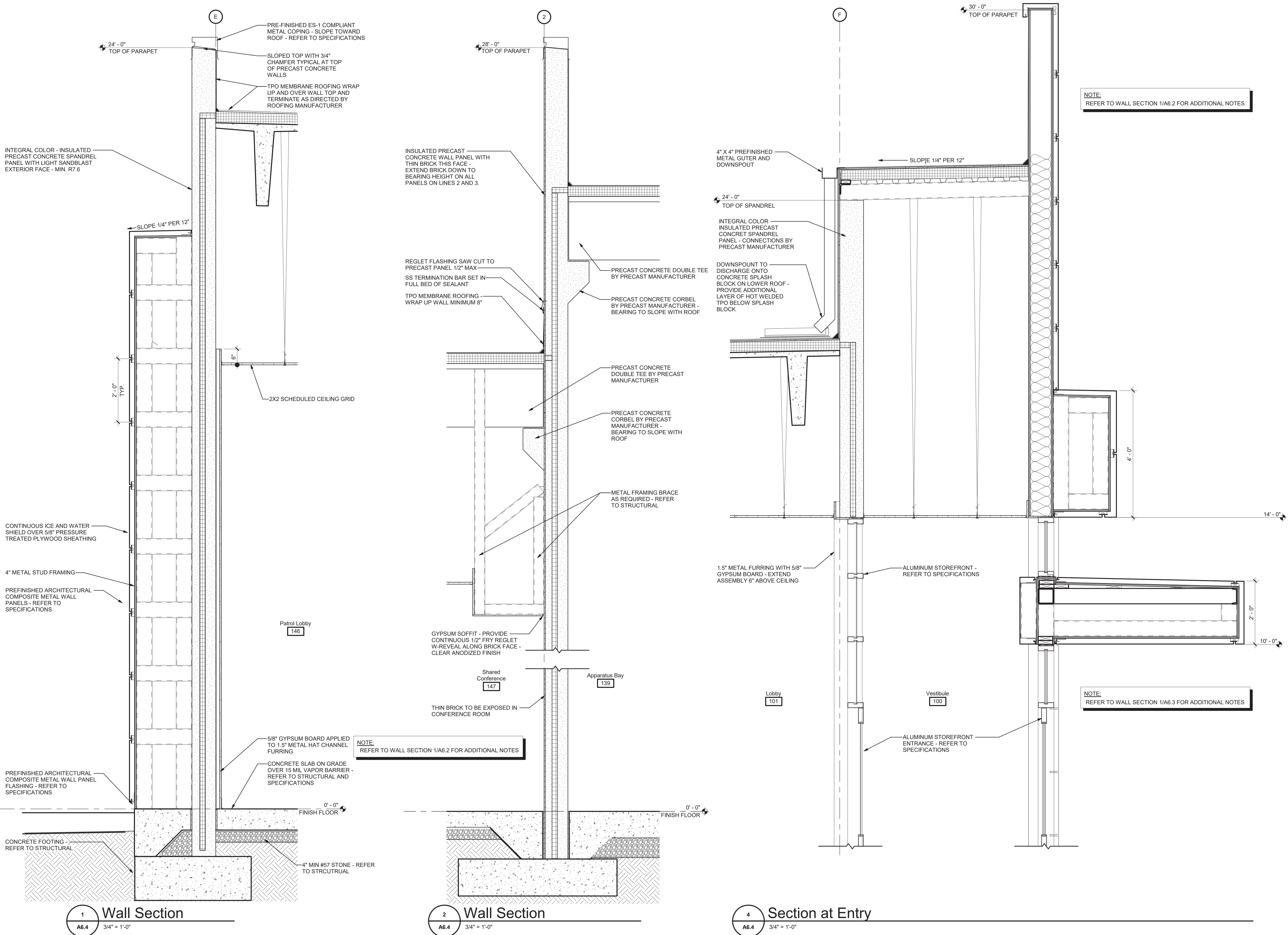


**1 Wall Section**  
 A6.3 3/4" = 1'-0"

**NOTE:**  
 REFER TO WALL SECTION 1/A6.2 FOR ADDITIONAL NOTES

**NOTE:**  
 REFER TO WALL SECTION 1/A6.2 FOR ADDITIONAL NOTES

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NOTE:  
 REFER TO WALL SECTION 1/A6.2 FOR ADDITIONAL NOTES

NOTE:  
 REFER TO WALL SECTION 1/A6.3 FOR ADDITIONAL NOTES

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**GILLEM PUBLIC SAFETY BUILDING**  
 2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

DESIGN	BKS	DRAWN	PPI	CHECKED	LGD
WALL SECTIONS					
SHEET TITLE					

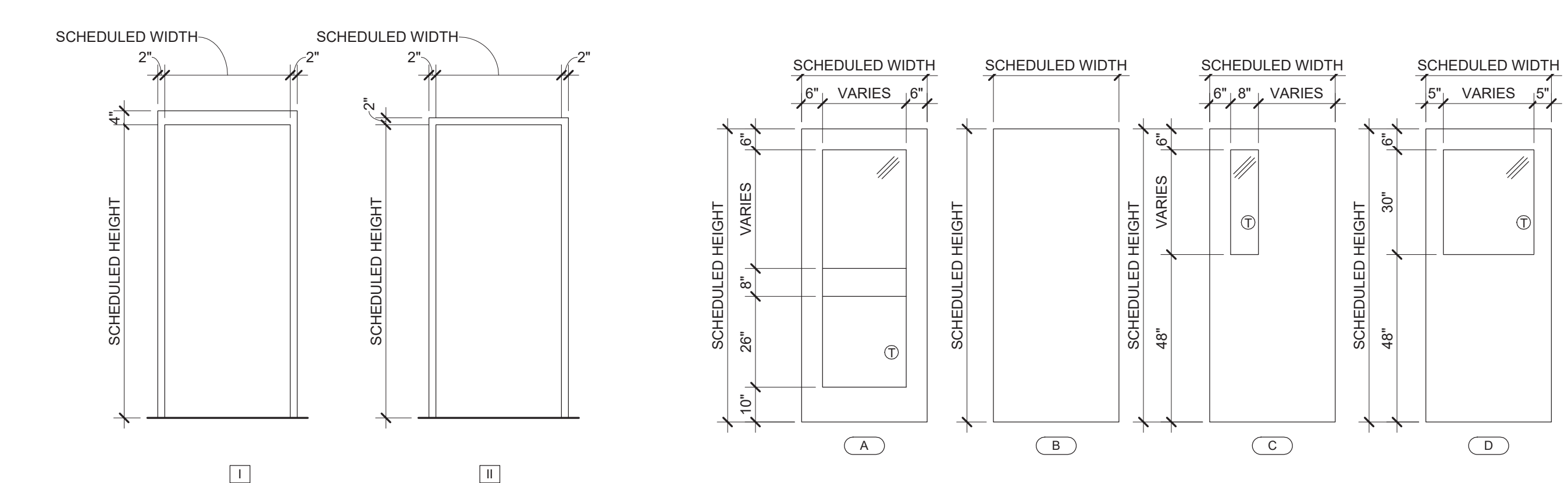
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**A6.4**

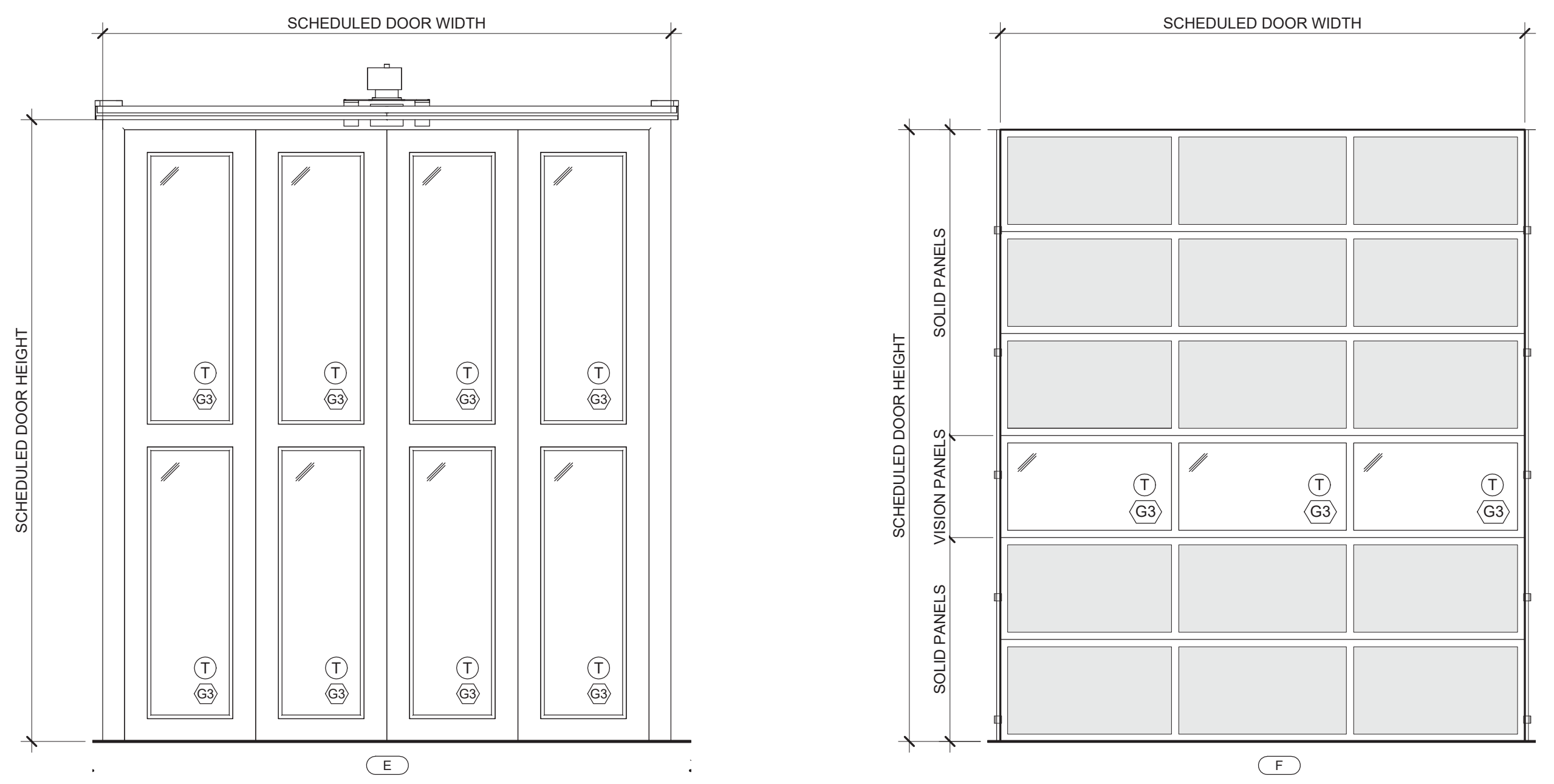
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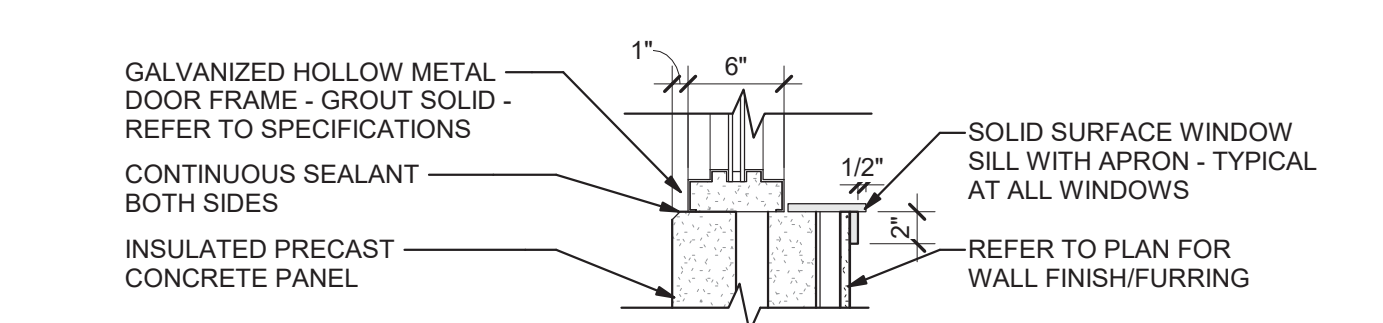
1 Door Frame Elevations  
A9.1 3/8" = 1'-0"

2 Door Elevations  
A9.1 3/8" = 1'-0"



3 Apparatus Bay Door Elevations  
A9.1 3/8" = 1'-0"

4 Interior Window Elevations  
A9.1 3/8" = 1'-0"



6 HM Window Sill Frame Detail  
A9.1 1" = 1'-0"

### Glazing Type Legend

**G1 INSULATED GLAZING:**  
1" INSULATED HIGH PERFORMANCE TINTED FLOAT GLASS WITH ARGON GAS OR ARCHITECT APPROVED EQUAL. BASIS OF DESIGN IS 1" VITRO SOLARBAN 60 SOLARGRAY + CLEAR.  
1. EXTERIOR: 1/4" TINTED ANNEALED GLASS WITH LOW-E 366 COATING ON #2 SURFACE  
2. AIRSPACE: 1/2" WITH ARGON GAS  
3. INTERIOR: 1/4" CLEAR ANNEALED GLASS  
- U-VALUE (SUMMER) = 0.27  
- U-VALUE (WINTER) = 0.29  
- SHGC = 0.39

**G2 SPANDREL GLAZING:**  
1" INSULATED HIGH PERFORMANCE GRAY TINTED SPANDREL GLASS OR ARCHITECT APPROVED EQUAL. BASIS OF DESIGN IS 1" VITRO SOLARBAN 60 SOLAR GRAY + OPAQUE  
1. EXTERIOR: 1/4" TINTED ANNEALED GLASS WITH LOW-E 366 COATING ON #2 SURFACE  
2. AIRSPACE: 1/2" ARGON GAS  
3. INTERIOR: 1/4" UNCOATED GLASS WITH OPAQUE FINISH

**G3 OVERHEAD DOOR INSULATED GLAZING:**  
1/2" INSULATED HIGH PERFORMANCE GRAY TINTED FLOAT GLASS WITH ARGON GAS OR ARCHITECT APPROVED EQUAL.  
1. EXTERIOR: 1/8" DSB TINTED TEMPERED GLASS WITH LOW-E 366 COATING ON #2 SURFACE  
2. AIRSPACE: 1/4" ARGON GAS  
3. INTERIOR: 1/8" DSB CLEAR TEMPERED GLASS

**G4 STANDARD INTERIOR GLAZING:**  
1/4" TEMPERED CLEAR GLASS

**FG1 FIRE RATED INSULATED GLAZING:**  
1" INSULATED 1-HOUR RATED ASSEMBLY. BASIS OF DESIGN IS TGP FIRELITE PREMIUM PLUS ULTRA HD FIRE RATED GLAZING.  
1. EXTERIOR: 1/4" CLEAR TEMPERED GLASS  
2. AIR SPACE: 7/16" ARGON GAS  
3. INTERIOR: 5/16" FIRELITE PREMIUM PLUS RATED GLASS

**SG1 UL LEVEL 1 BALLISTIC RATED GLAZING:**  
1 1/4" LAMINATED POLYCARBONATE ASSEMBLY TESTED BY UL AND RATED LEVEL 3. BASIS OF DESIGN TSS LP1250 BR.  
1. THREAT LAYER: 0.25 URETHANE  
2. SECOND LAYER: 1/8" MAR RESIDENT POLYCARBONATE  
3. THIRD LAYER: 1" CLEAR ACRYLIC  
4. FOURTH LAYER: 0.25 URETHANE  
5. FIFTH LAYER: 1/8" MAR RESIDENT POLYCARBONATE

(T) = TEMPERED GLASS

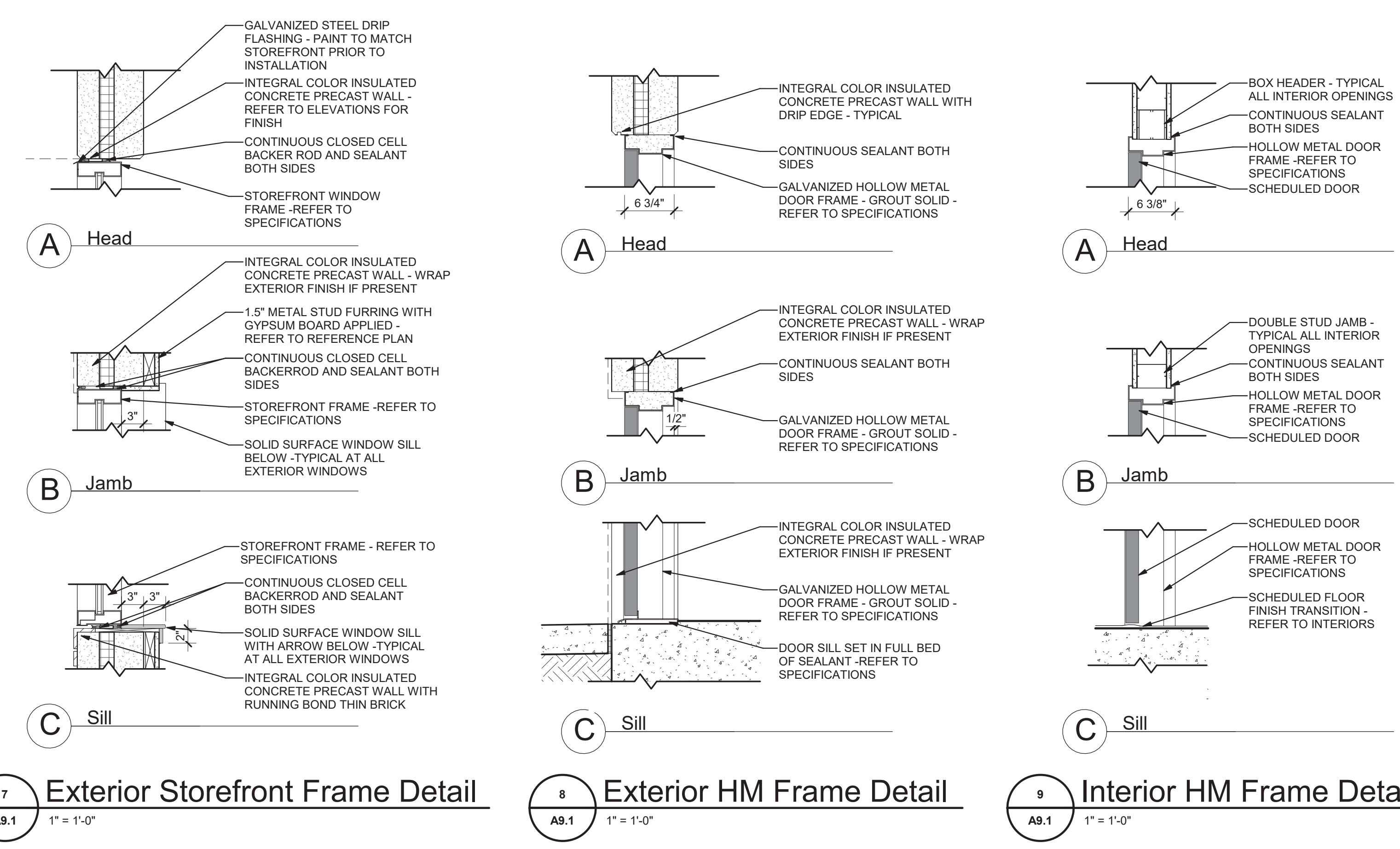
### Door Schedule Notes

- INSULATED THERMAL DOOR
- CONTINUOUS HINGE
- LATCH PROTECTOR
- SOUND SEALS
- WEATHER SEALS
- DRIP EDGE
- ARMOR PLATE
- KICK PLATE
- GROUT FRAME SOLID
- CLOSER
- HOLD OPEN
- PAIR OF 3'-0" DOORS
- SLIDING BARN DOOR

REFER TO SPECIFICATIONS FOR ADDITIONAL DOOR/HARDWARE NOTES

### Door Schedule

Door No.	Door Width	Door Height	Door Thickness	Door Type	Door Mat.	Frame Type	Frame Mat.	Fire Rating	Glazing Type	Controlled Opening	Door Notes
100	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G1	-	2,5,10
101	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G4	CARD ACCESS	2,10
102A	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	CARD ACCESS	4,10
102B	3'-0"	7'-0"	0'-1 3/4"	D	WD	II	HM	-	G4	-	4,10,11
103	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10
104A	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,10,11
104B	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	CARD ACCESS	4,10
105	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	-
106	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	CARD ACCESS	4,10
107	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G1	CARD ACCESS	2,5,10,11
109A	3'-0"	7'-0"	0'-1 3/4"	D	WD	II	HM	-	G4	CARD ACCESS	4,10
109B	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	45 MIN.	FG1	CARD ACCESS	1,2,5,9,10
111	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	45 MIN.	FG1	-	4,10
112	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4
113	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4
114	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10
115	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	-	8,10
116A	3'-0"	7'-0"	0'-1 3/4"	D	WD	II	HM	-	G4	-	4,10,11
116B	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G1	EXIT ONLY	1,2,5,10,11
117	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	CARD ACCESS	10,11
118	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	45 MIN.	FG1	-	4,10
119	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10,11
120	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10,11
121	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,10,11
122	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10,11
123	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	4,8,10,11
124	3'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	-	-	CARD ACCESS	1,2,5,9,10,11
125	6'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	-	-	-	1,2,3,5,7,9,10,11,12
127	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
128	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
129	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	13
130	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
131	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
133	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
134	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
135	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	13
136	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
137	3'-6"	7'-0"	0'-1 1/2"	B	WD	-	-	-	-	-	13
138A	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	45 MIN.	-	-	4,10
138B	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	45 MIN.	FG1	CARD ACCESS	1,2,5,9,10
139A	3'-0"	7'-0"	0'-1 3/4"	D	HM	I	HM	-	G1	CARD ACCESS	1,2,5,6,7,9,10
139B	3'-0"	7'-0"	0'-1 3/4"	D	HM	I	HM	-	G1	CARD ACCESS	1,2,5,6,7,9,10
139C	3'-0"	7'-0"	0'-1 3/4"	D	HM	I	HM	-	G1	CARD ACCESS	1,2,5,6,7,9,10
139D	3'-0"	7'-0"	0'-1 3/4"	D	HM	I	HM	-	G1	-	1,2,5,6,7,9,10
139E	12'-0"	14'-0"	0'-1 3/4"	E	STEEL	-	-	-	G3	-	-
139F	12'-0"	14'-0"	0'-1 3/4"	E	STEEL	-	-	-	G3	-	-
139G	12'-0"	14'-0"	0'-1 3/4"	E	STEEL	-	-	-	G3	-	-
139H	12'-0"	14'-0"	0'-1 3/4"	F	STEEL	-	-	-	G3	-	-
139I	12'-0"	14'-0"	0'-1 3/4"	F	STEEL	-	-	-	G3	-	-
139J	12'-0"	14'-0"	0'-1 3/4"	F	STEEL	-	-	-	G3	-	-
140	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	7,10,11
141A	3'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	45 MIN.	-	CARD ACCESS	1,2,5,10
141B	3'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	45 MIN.	-	CARD ACCESS	1,2,5,10,12
142	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	45 MIN.	FG1	CARD ACCESS	1,2,5,7,9,10
143	3'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	-	-	-	8,10,11
144A	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	-	G4	-	10,11
144B	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	45 MIN.	FG1	CARD ACCESS	1,2,5,7,9,10
145A	4'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	-	-	CARD ACCESS	2,7,10,11
145B	4'-0"	7'-0"	0'-1 3/4"	B	HM	II	HM	-	-	KEY PAD	1,2,5,7,9,10,11
146	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G1	CARD ACCESS	2,5,10
147A	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	CARD ACCESS	4,10,11
147B	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	-	4,10,11
148	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	CARD ACCESS	10
149	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	-	11
150	3'-0"	7'-0"	0'-1 3/4"	C	WD	II	HM	-	G4	-	11
151A	3'-0"	7'-0"	0'-1 3/4"	D	WD	II	HM	-	G4	-	4,10
151B	3'-0"	7'-0"	0'-1 3/4"	D	HM	II	HM	45 MIN.	FG1	CARD ACCESS	1,2,5,9,10
152	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	8,10,11
153	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	8,10,11
154	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	7,10,11
155	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	-	10,11
156	3'-0"	7'-0"	0'-1 3/4"	B	WD	II	HM	-	-	CARD ACCESS	10,11
157	3'-0"	8'-0"	0'-2 1/4"	A	AL	-	AL	-	G2	-	2,3,5,10,12



7 Exterior Storefront Frame Detail  
A9.1 1" = 1'-0"

8 Exterior HM Frame Detail  
A9.1 1" = 1'-0"

9 Interior HM Frame Detail  
A9.1 1" = 1'-0"

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DATE: 10/26/21  
NO. DESCRIPTION: A21-006  
RELEASED FOR BID

DESIGN: BKS  
DRAWN: PPI  
CHECKED: LGD

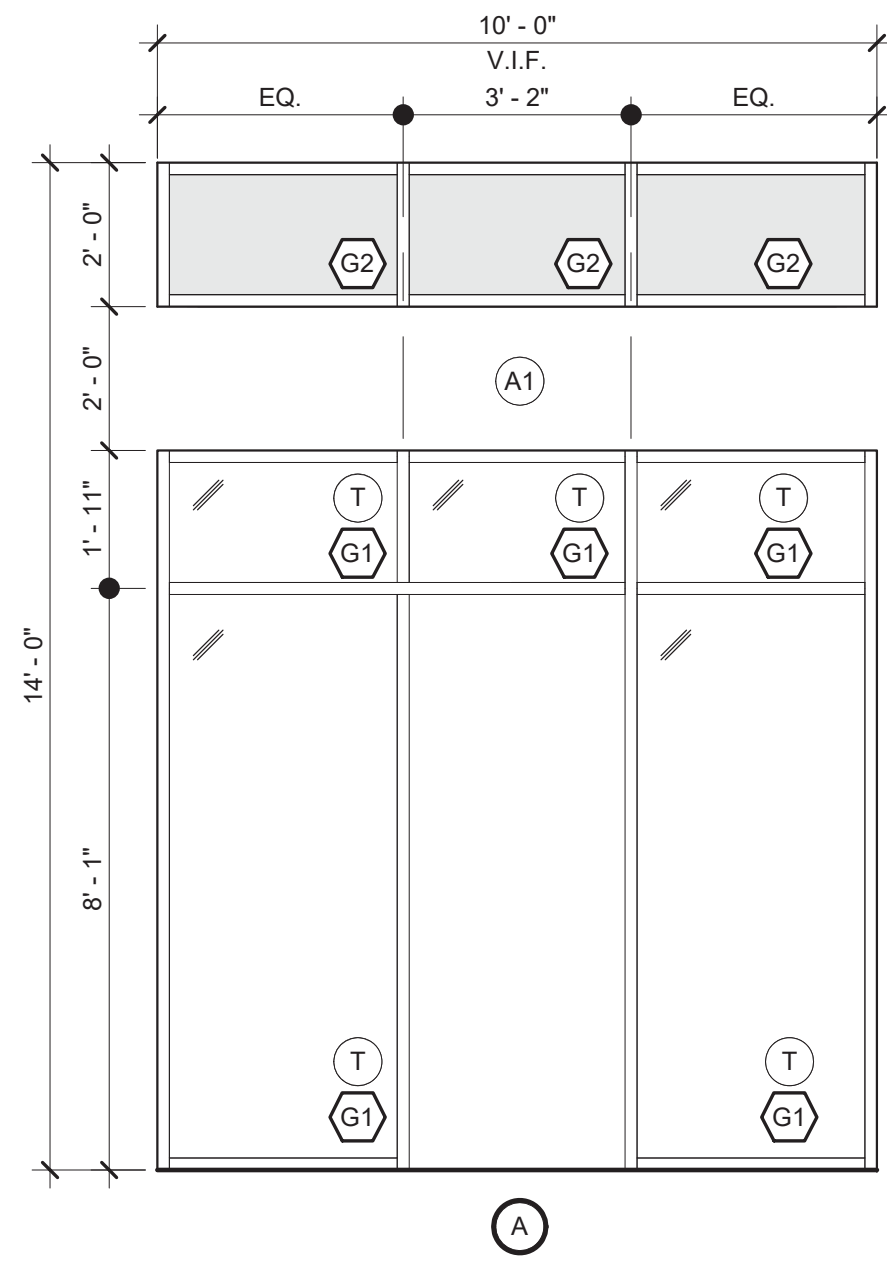
PROJECT: GILLEM PUBLIC SAFETY BUILDING  
2090 ANVIL BLOCK ROAD  
FOREST PARK, GA 30294

DATE: 10/01/2021  
DATE: 10/26/21  
PROJ. NUMBER: A21-006  
FILE NAME: A9.1

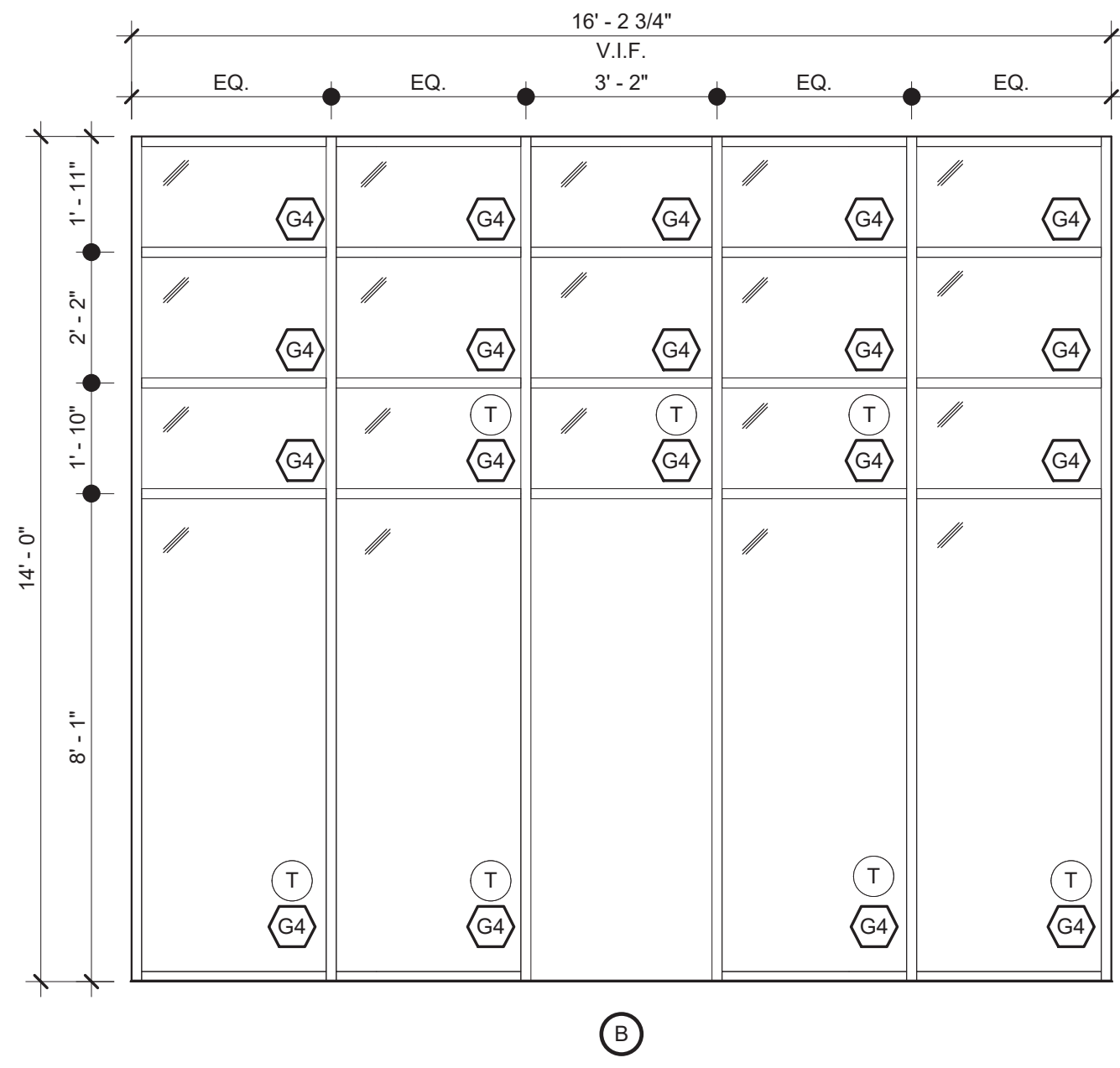
SHEET TITLE: DOOR & WINDOW SCHEDULE, NOTES & DETAILS

RELEASE

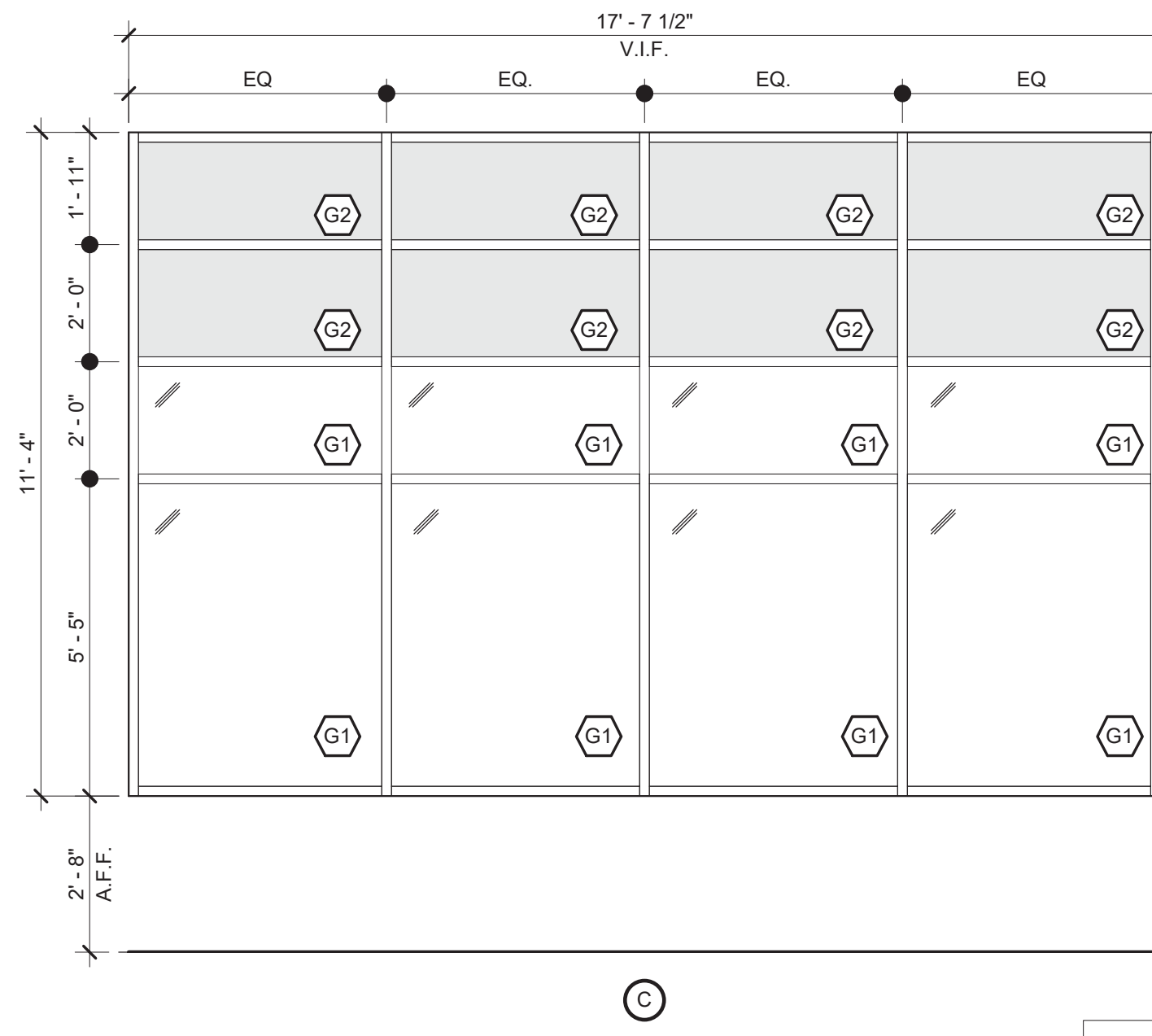
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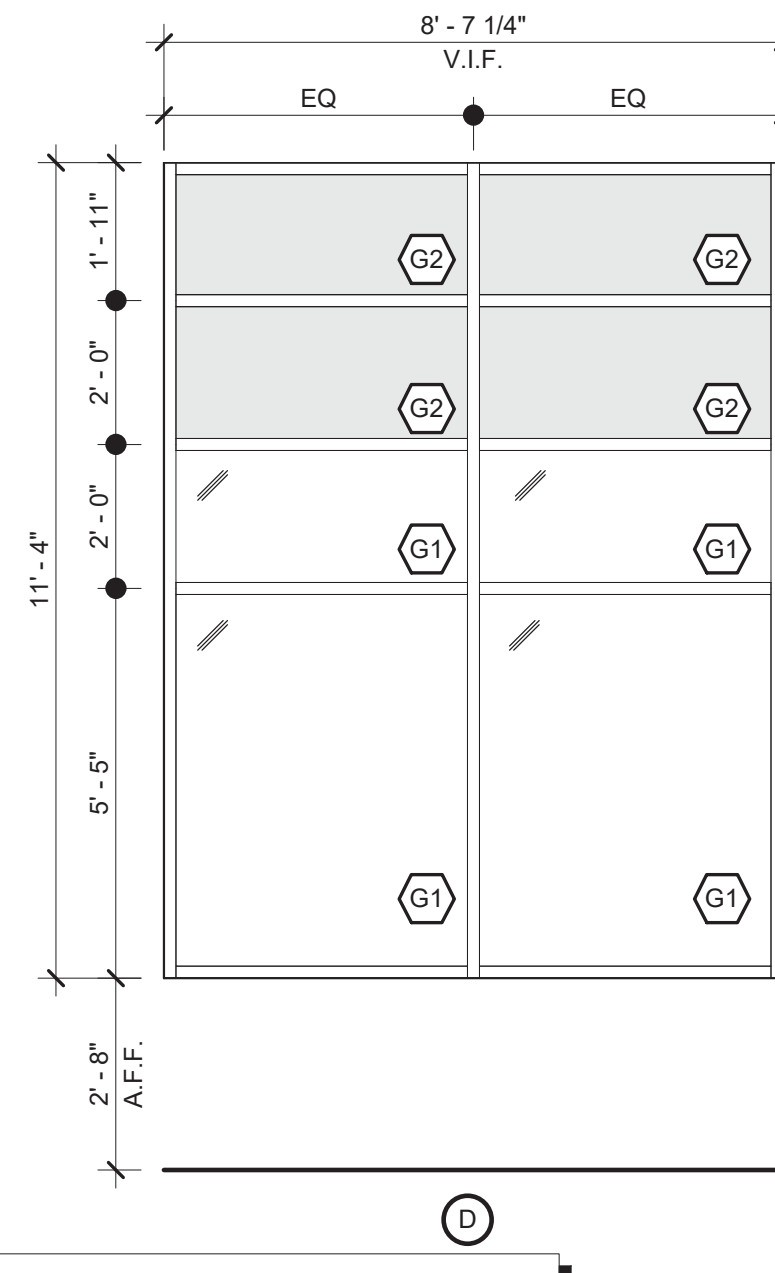
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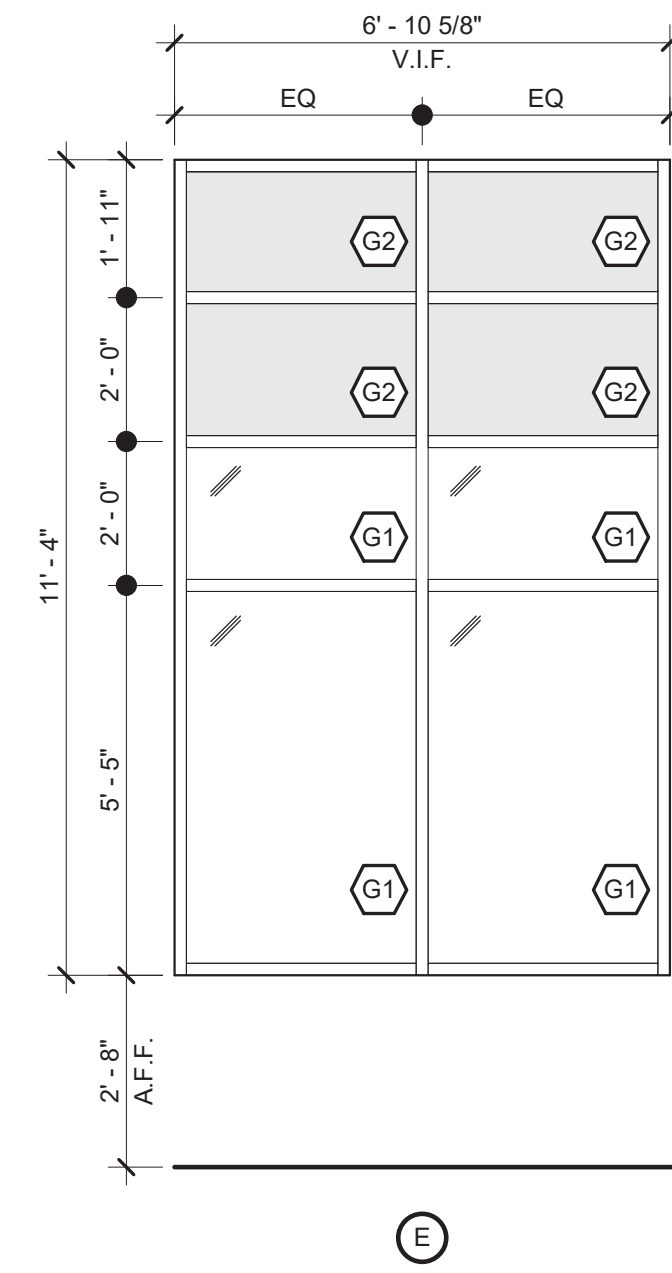
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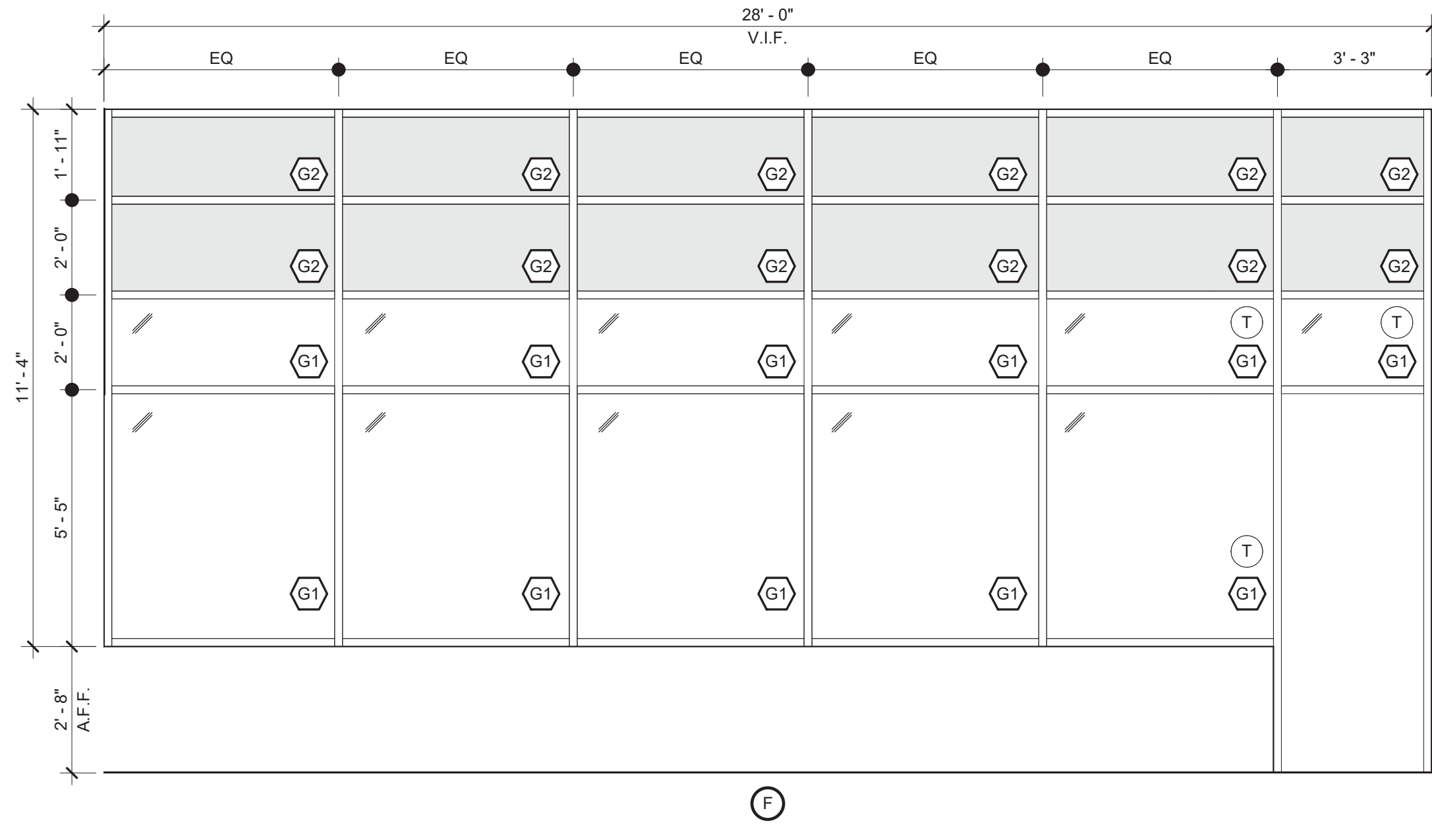
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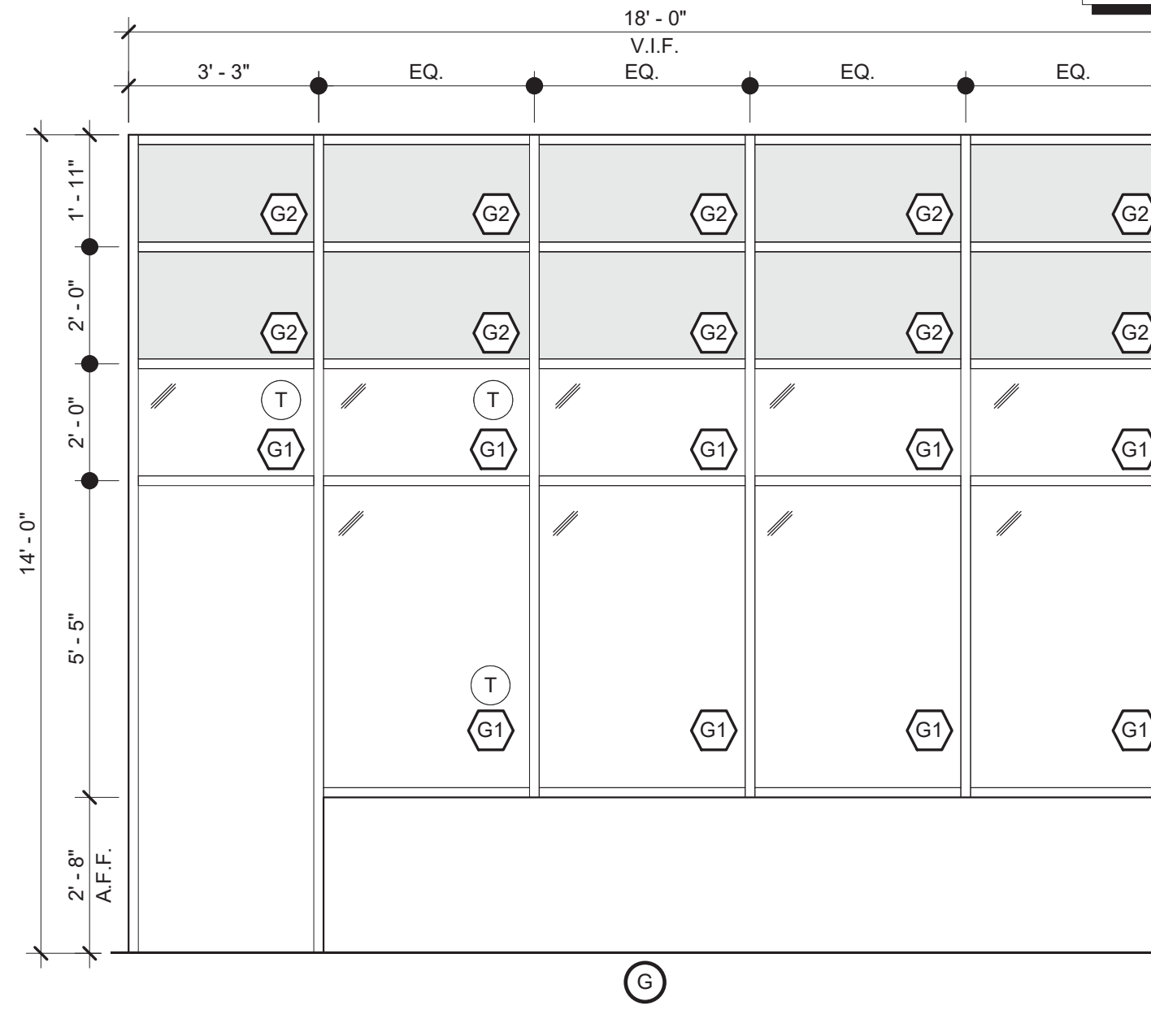
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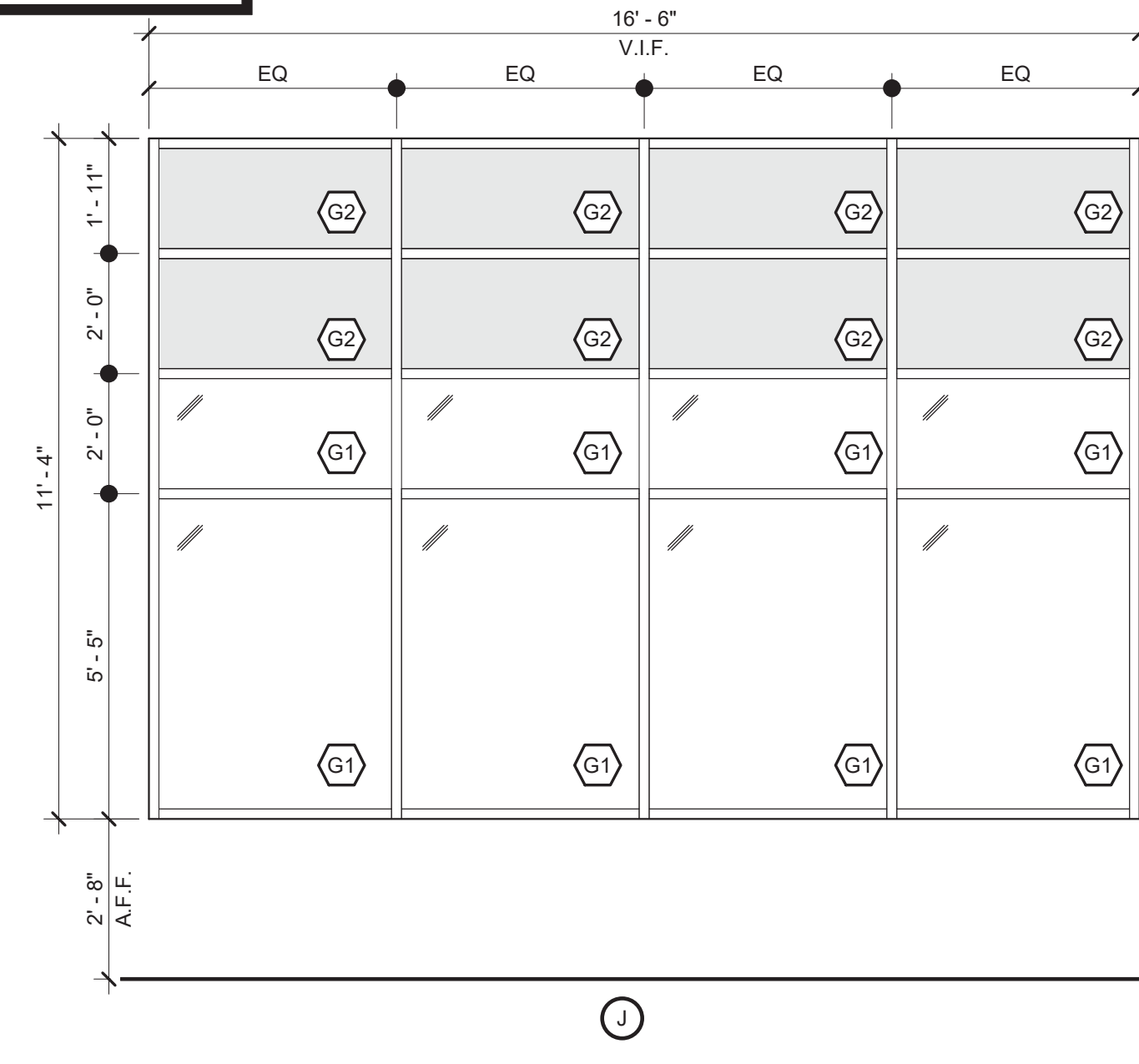


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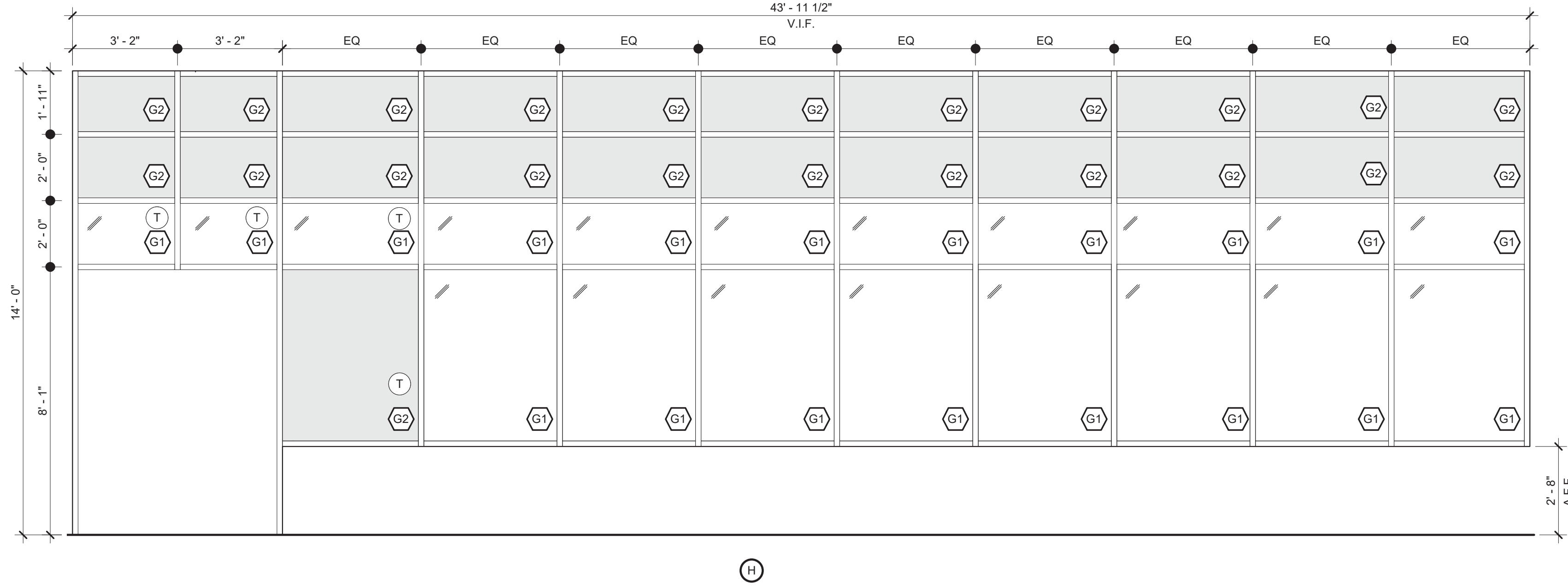


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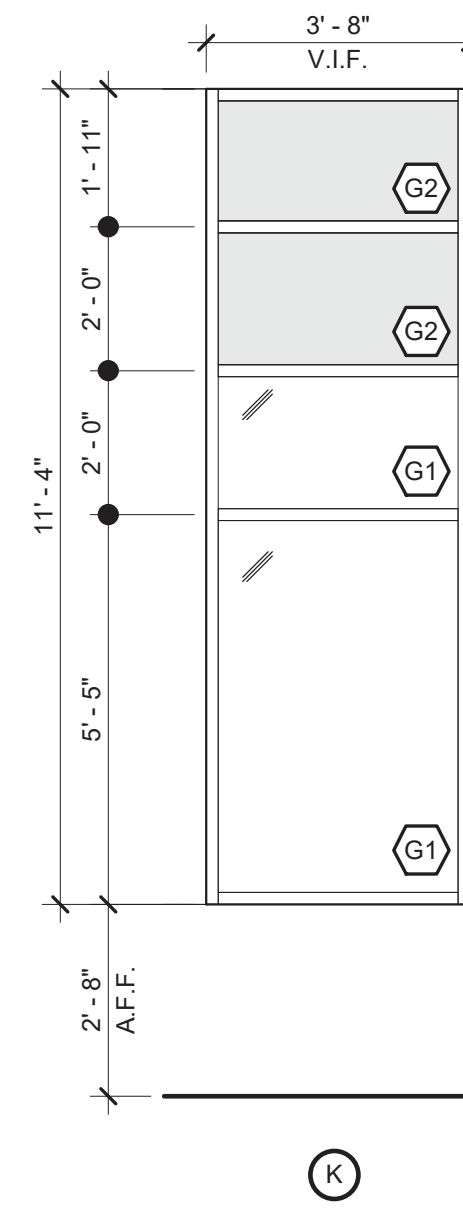
NOTE:  
 REFER TO A9.1 FOR GLAZING LEGEND AND NOTES



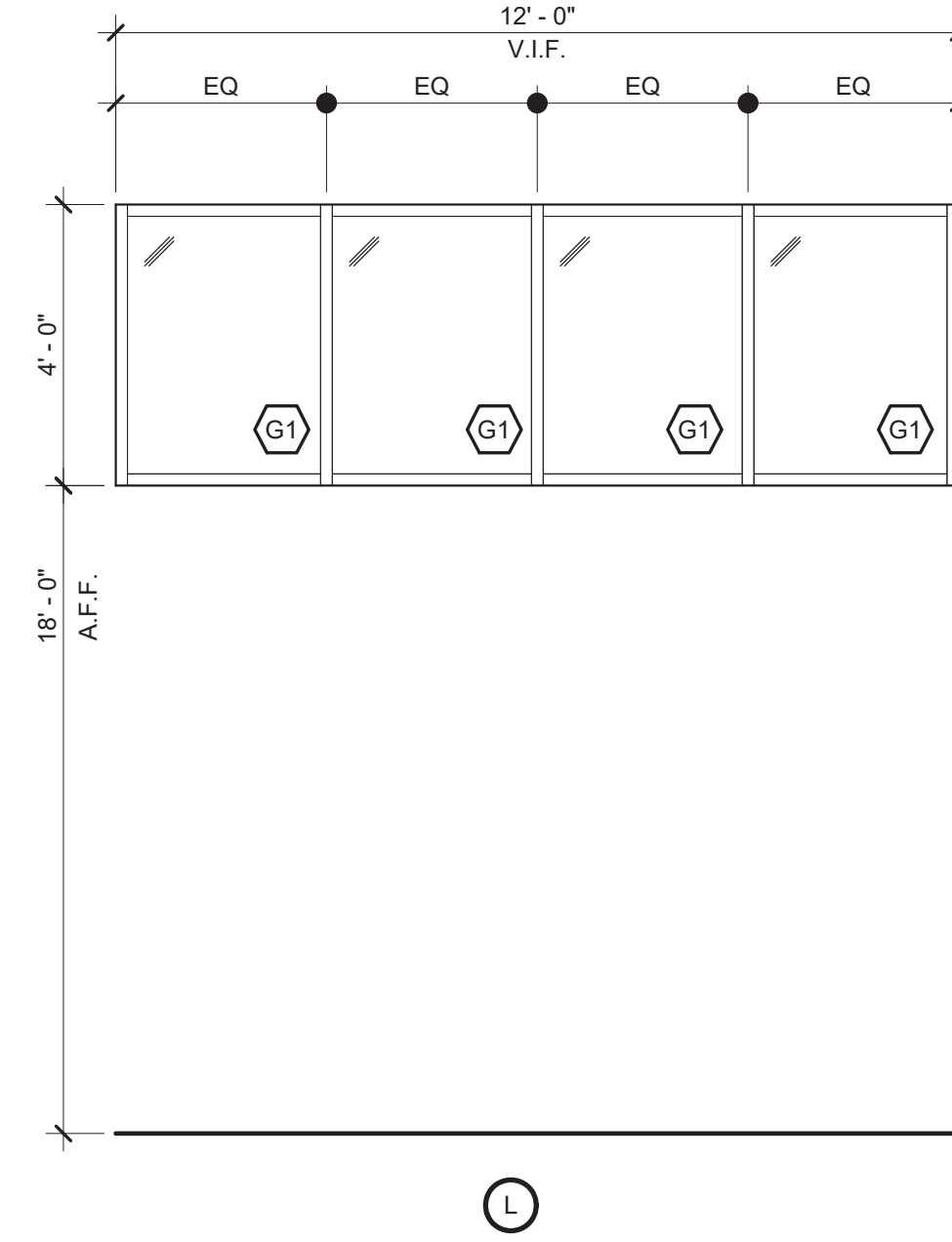
J



H



K



L

1 Storefront Window Elevations  
 A9.2 3/8" = 1'-0"

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**SAFETY BUILDING**  
 2090 ANVIL BLOCK ROAD  
 FOREST PARK, GA 30294

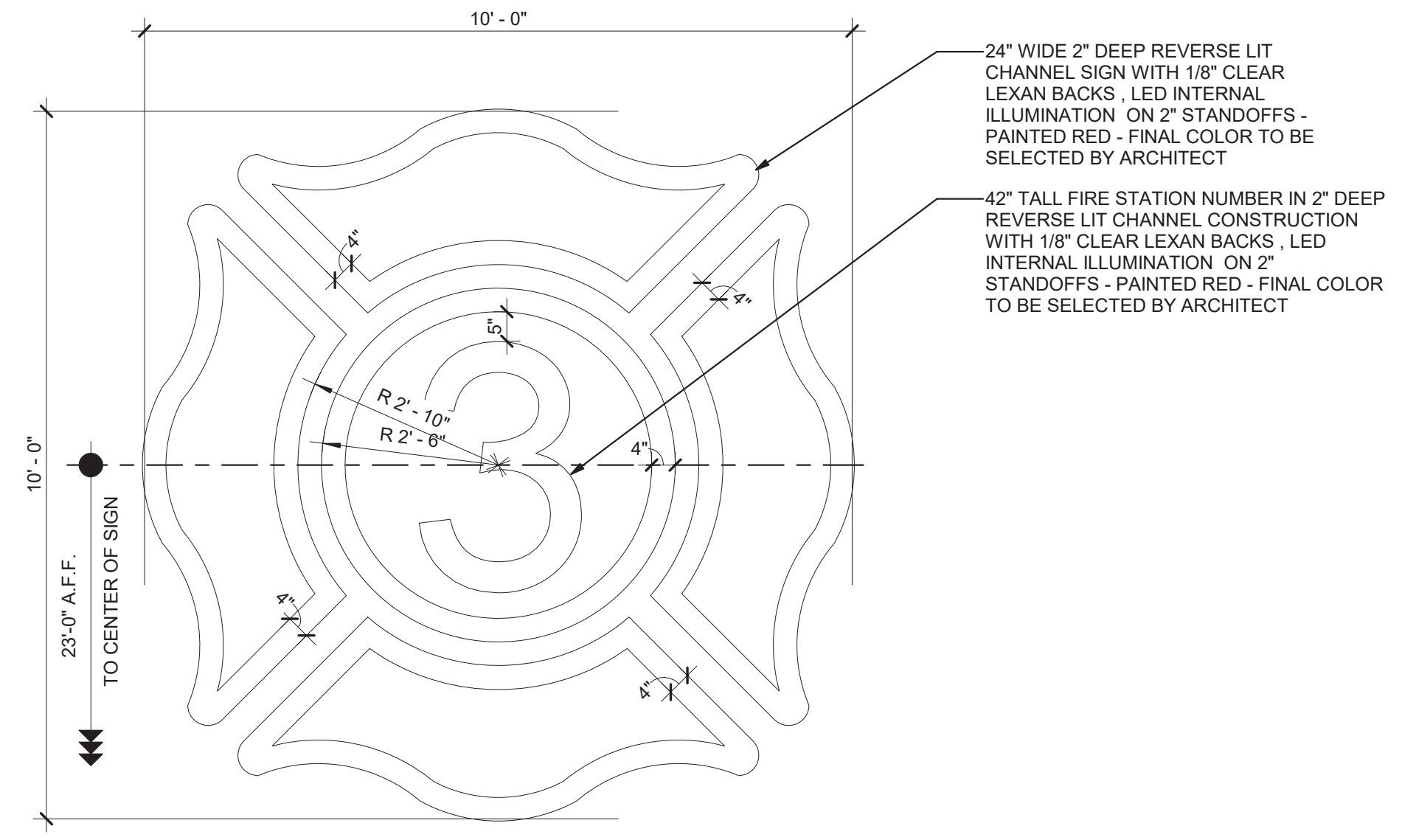
DOOR & WINDOW  
 SCHEDULE,  
 NOTES &  
 DETAILS

DESIGN	DRAWN	CHECKED
BKS	PPI	LGD

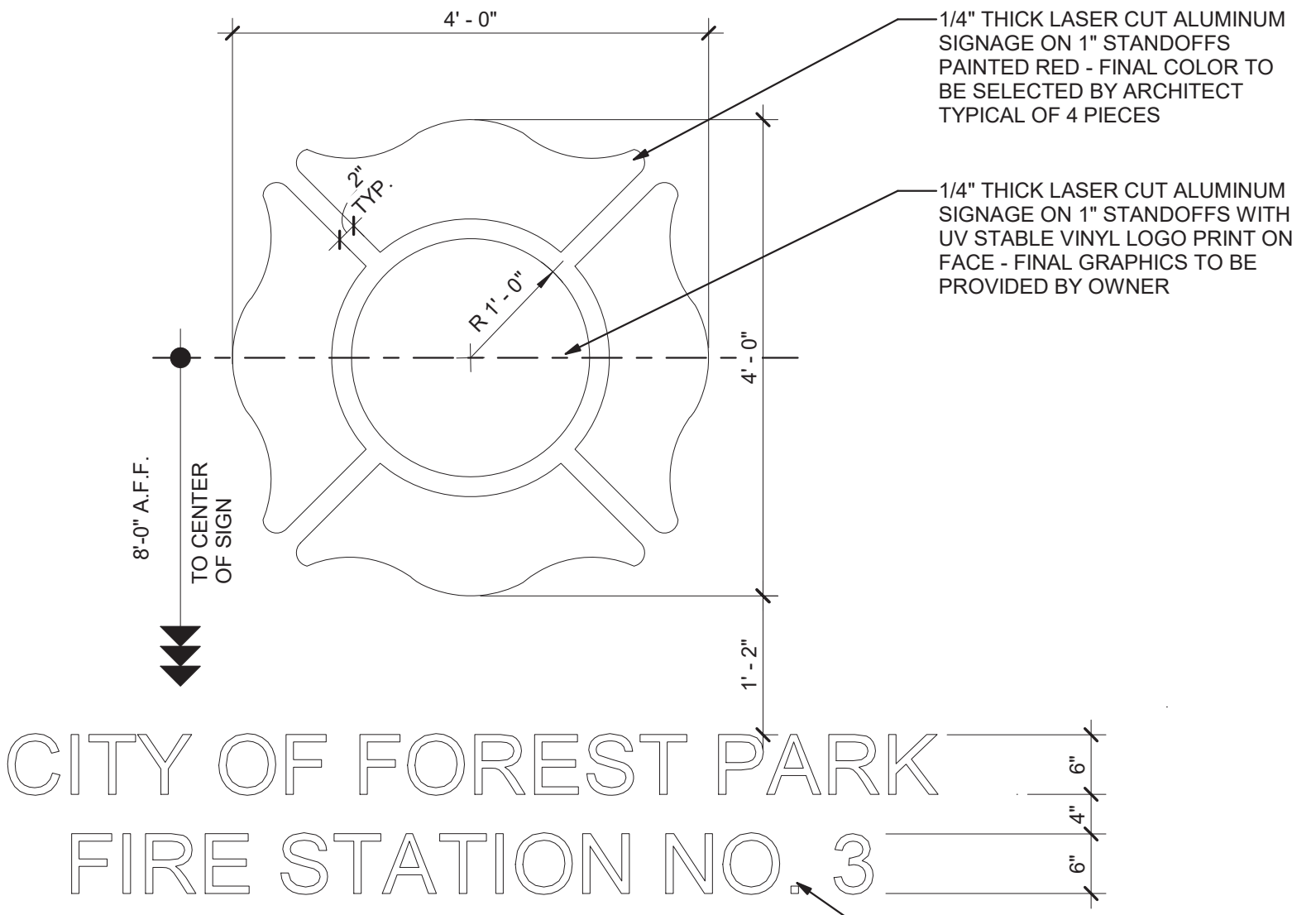
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10/26/21		RELEASED FOR BID

10/01/2021  
 DATE  
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 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER

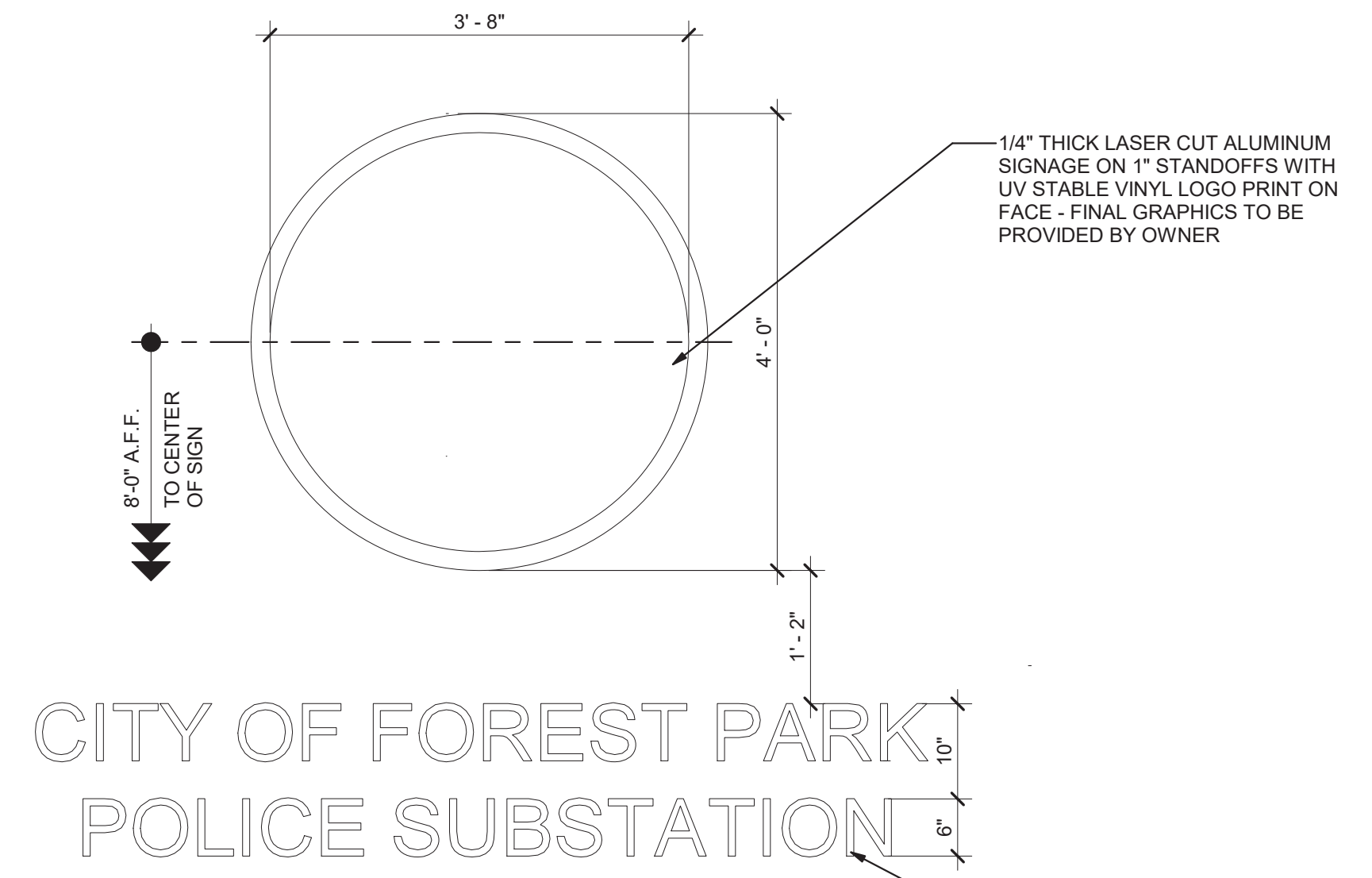
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 SHEET TITLE  
 PROJECT  
**A9.2**



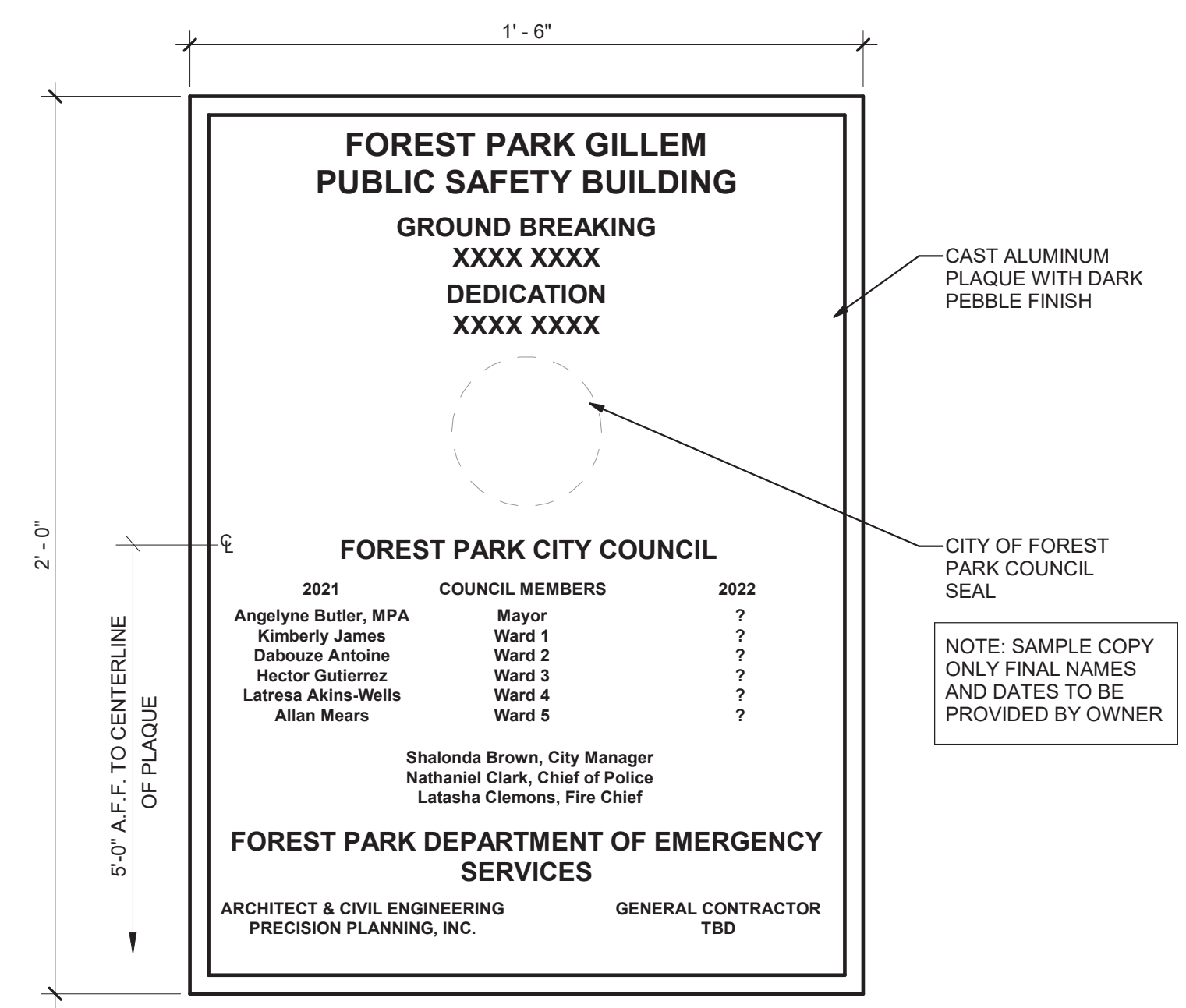
**1 Front Entry Building Sign**  
A10.1 1/2" = 1'-0"



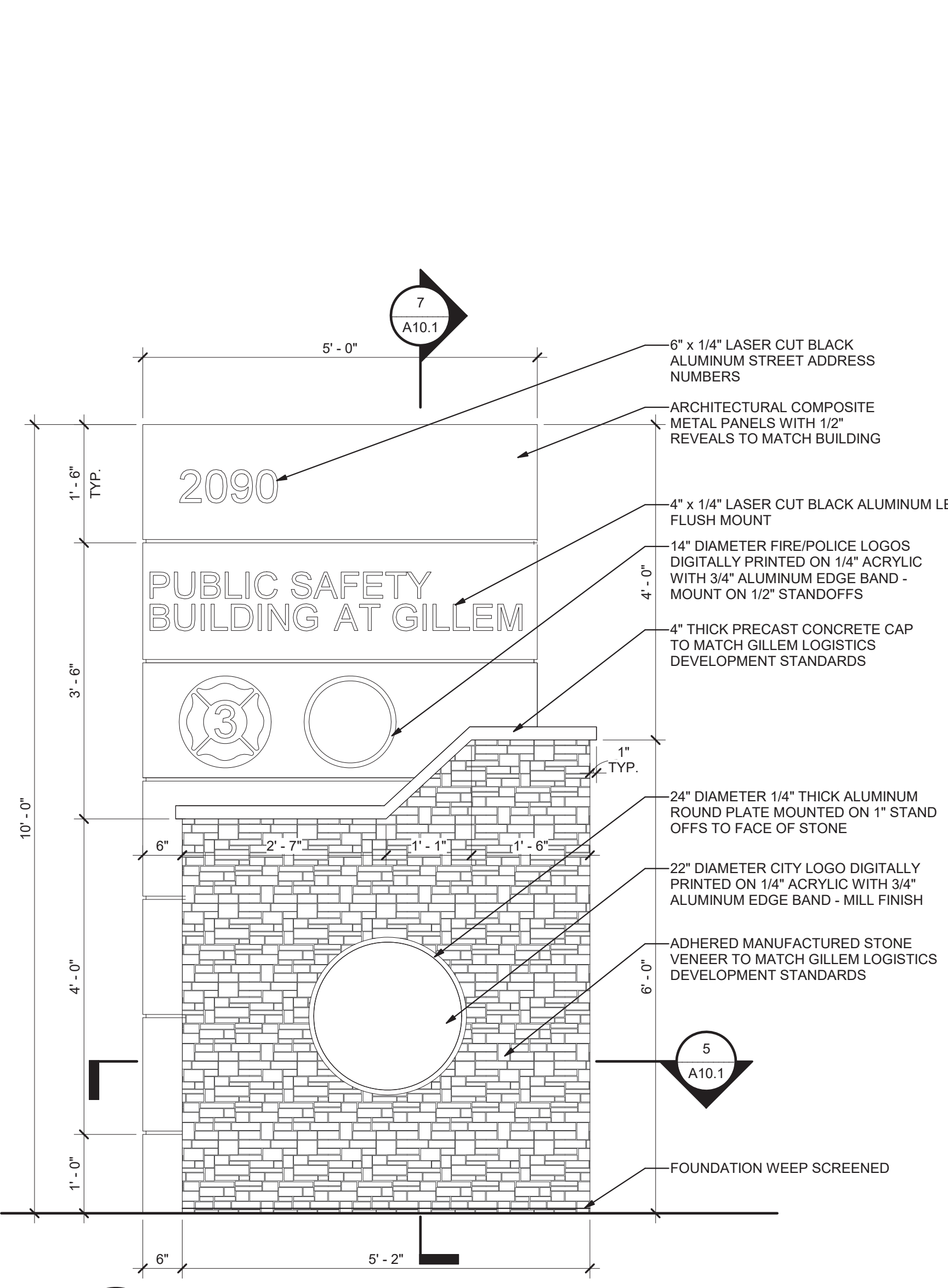
**2 Fire Services Logo Building Sign**  
A10.1 3/4" = 1'-0"



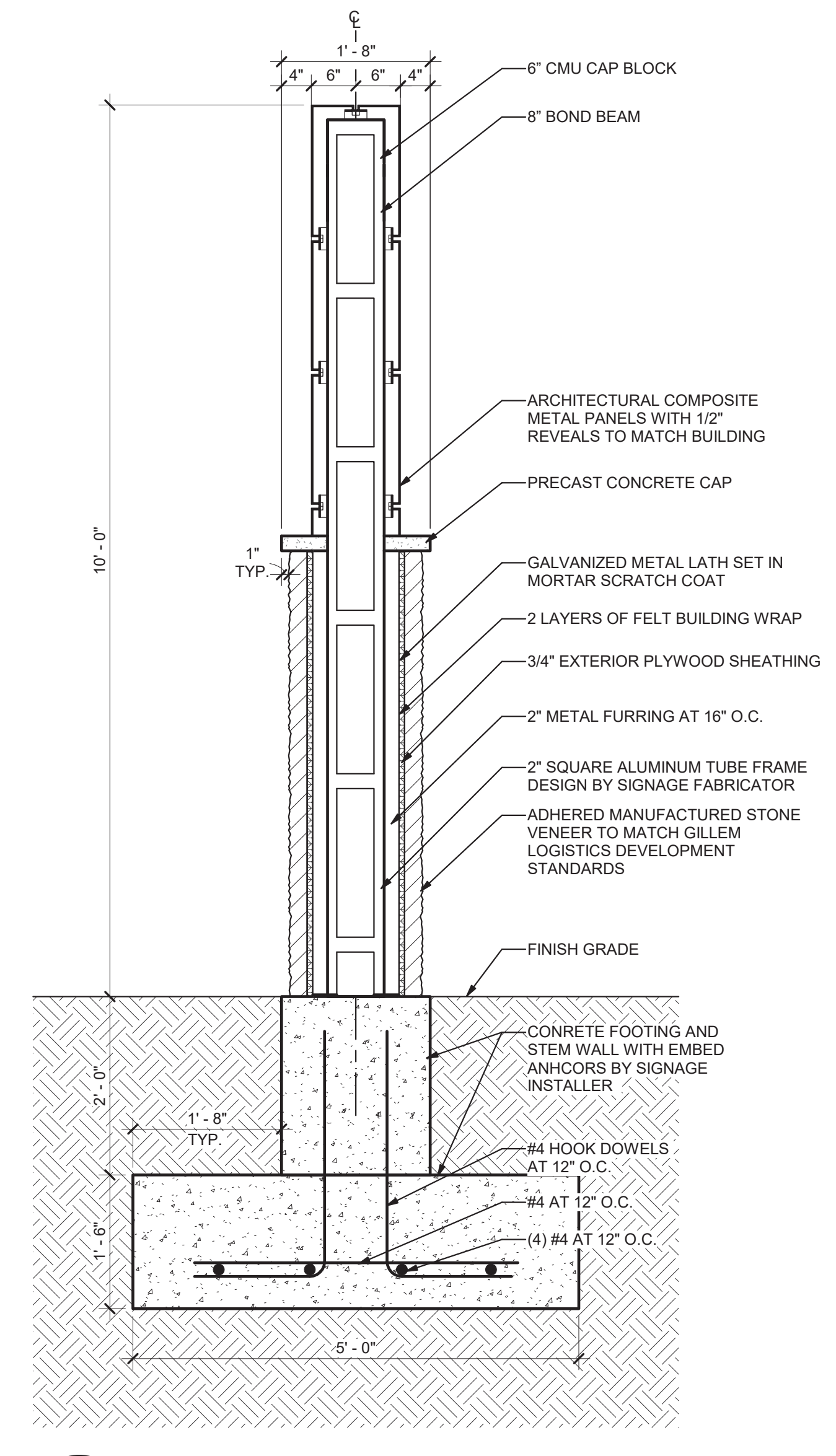
**3 Police Services Logo Building Sign**  
A10.1 3/4" = 1'-0"



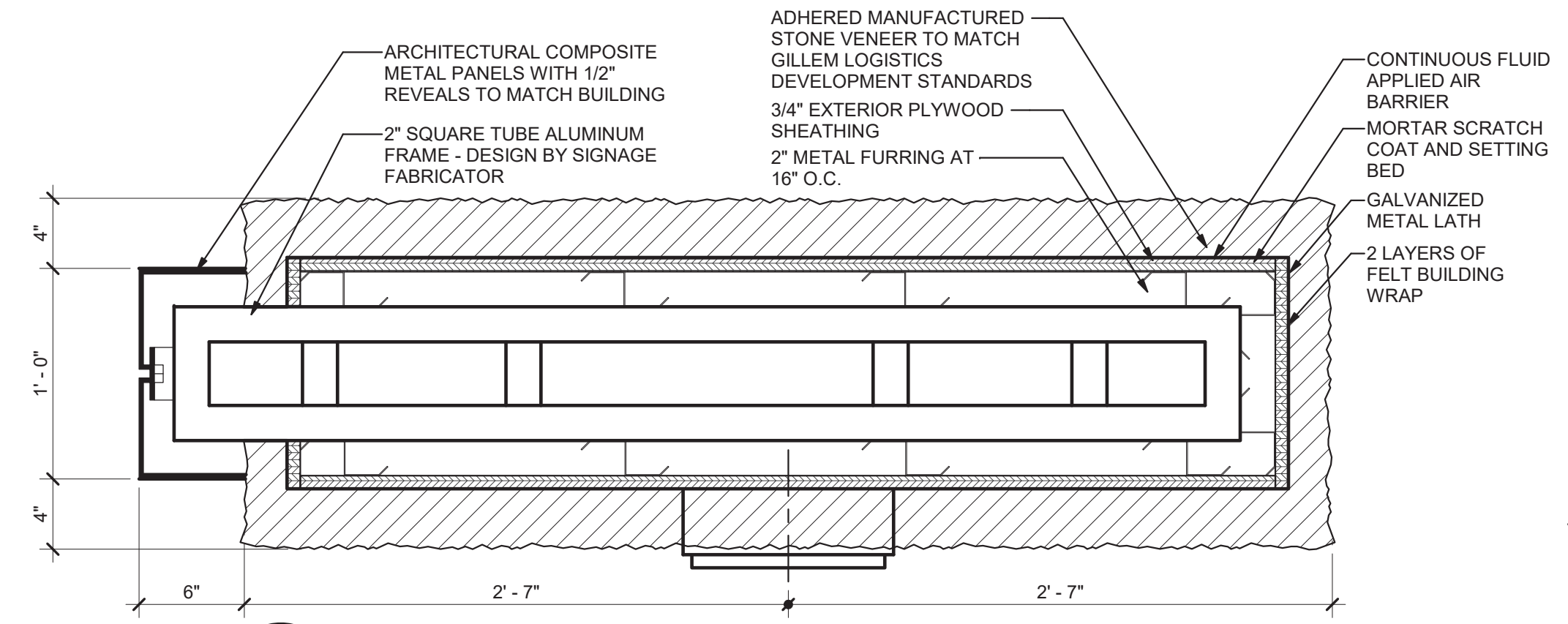
**4 Building Dedication Plaque**  
A10.1 3" = 1'-0"



**6 Monument Sign Elevation**  
A10.1 3/4" = 1'-0"



**7 Monument Sign Section**  
A10.1 3/4" = 1'-0"



**5 Monument Sign Plan**  
A10.1 1 1/2" = 1'-0"

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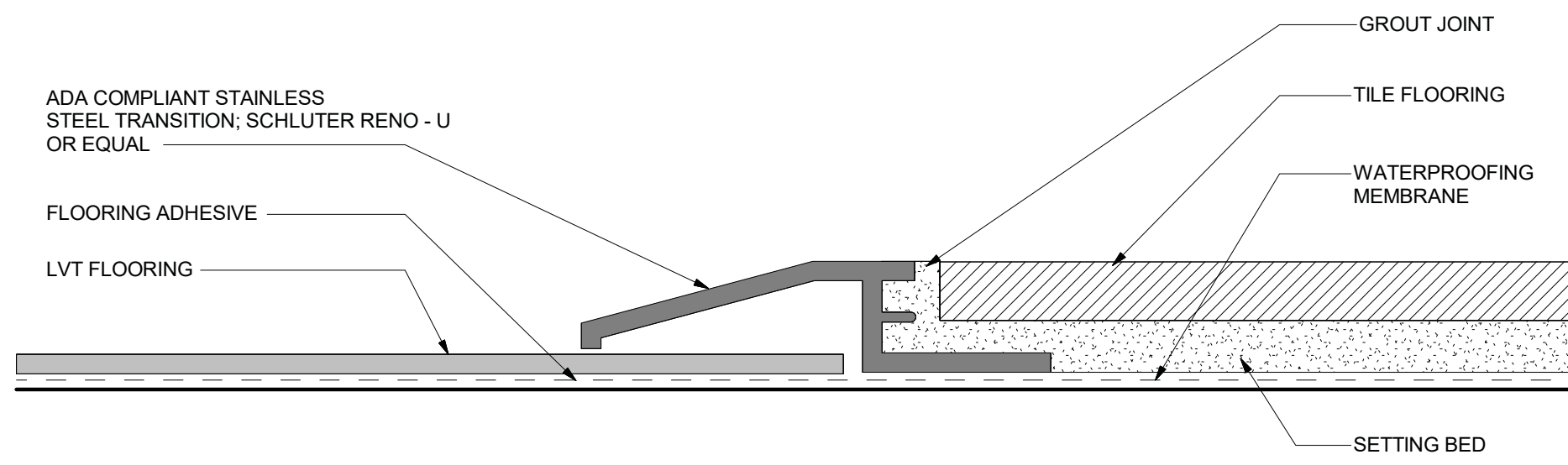
**GILLEM PUBLIC SAFETY BUILDING**  
2090 ANVIL BLOCK ROAD  
FOREST PARK, GA 30294  
PROJECT

EXTERIOR SIGNAGE NOTES & DETAILS  
DESIGN BKS DRAWN PPI CHECKED LGD  
SHEET TITLE

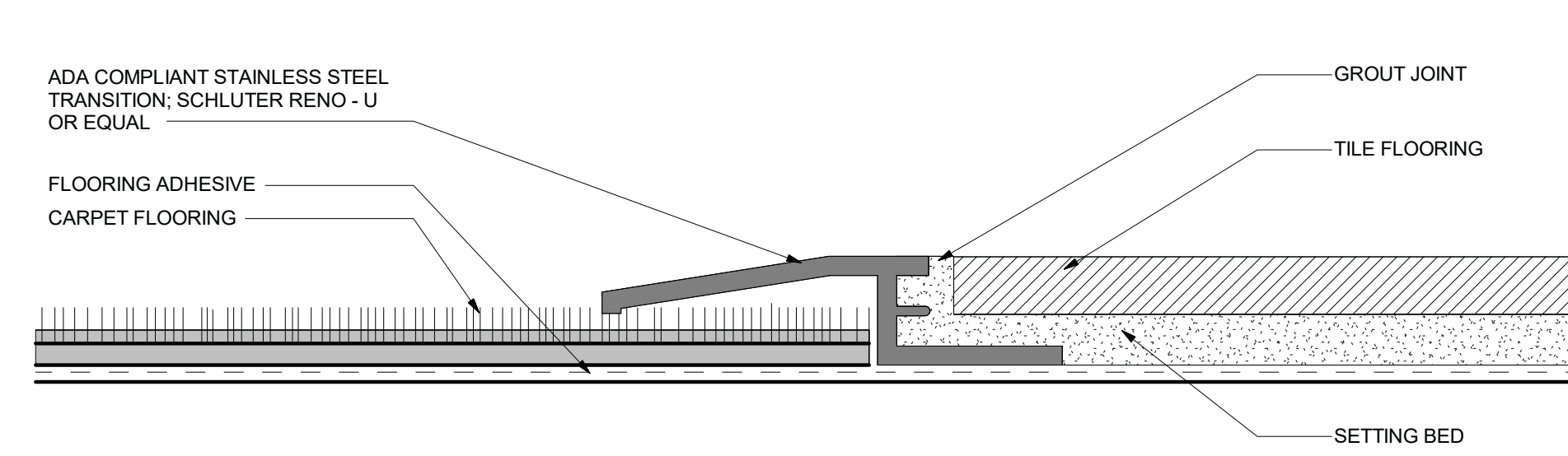
DATE	NO.	DESCRIPTION
10/26/21	1	RELEASED FOR BID

10/01/2021  
DATE  
A21-006  
PROJ. NUMBER  
FILE NAME  
FILE NUMBER

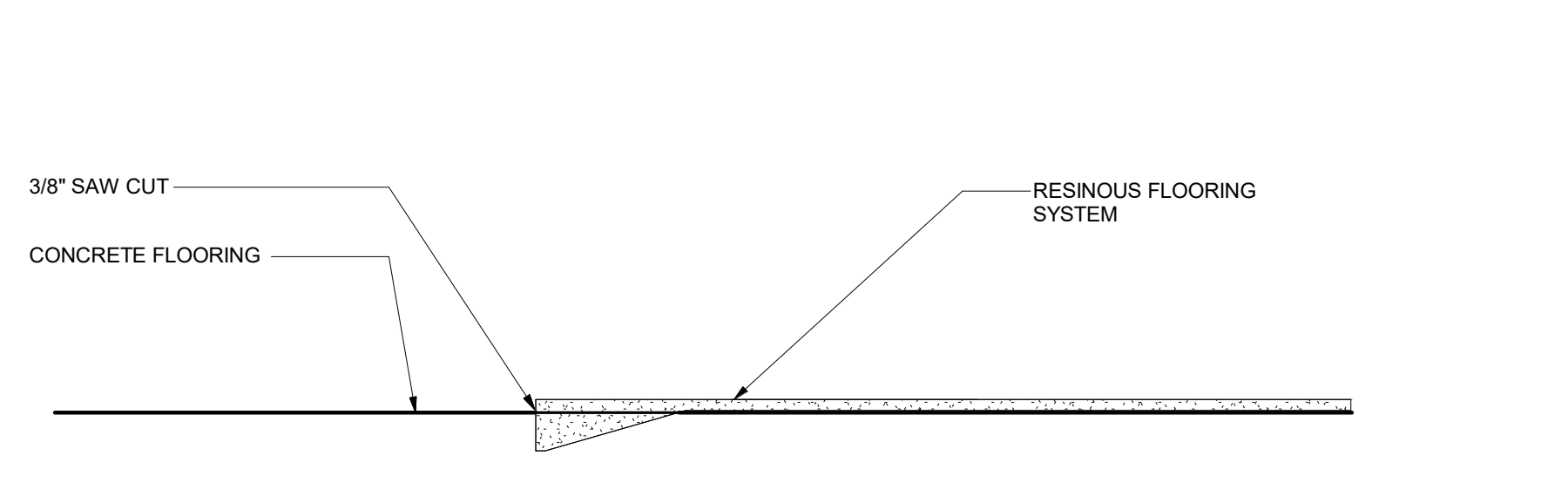
**A10.1**  
RELEASE



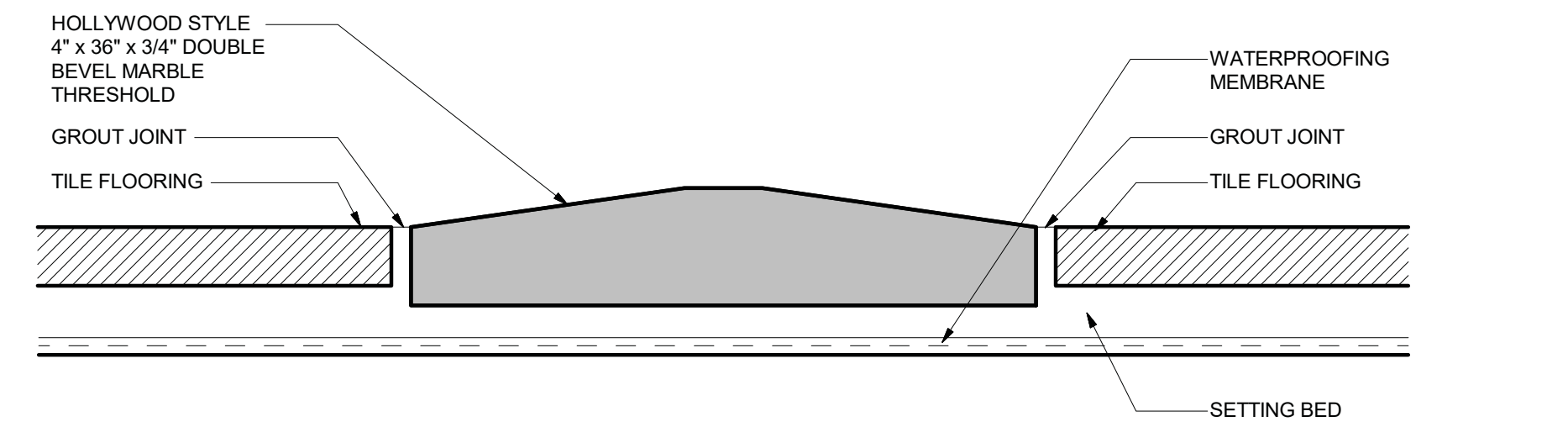
1 LVT to Tile Detail  
 12" = 1'-0"



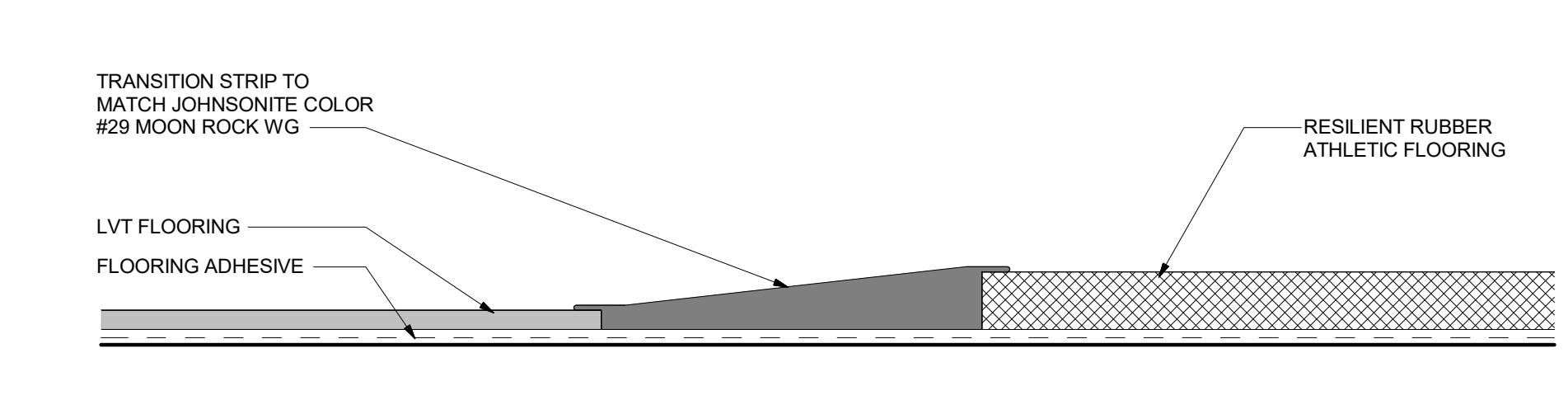
2 Carpet to Tile Detail  
 12" = 1'-0"



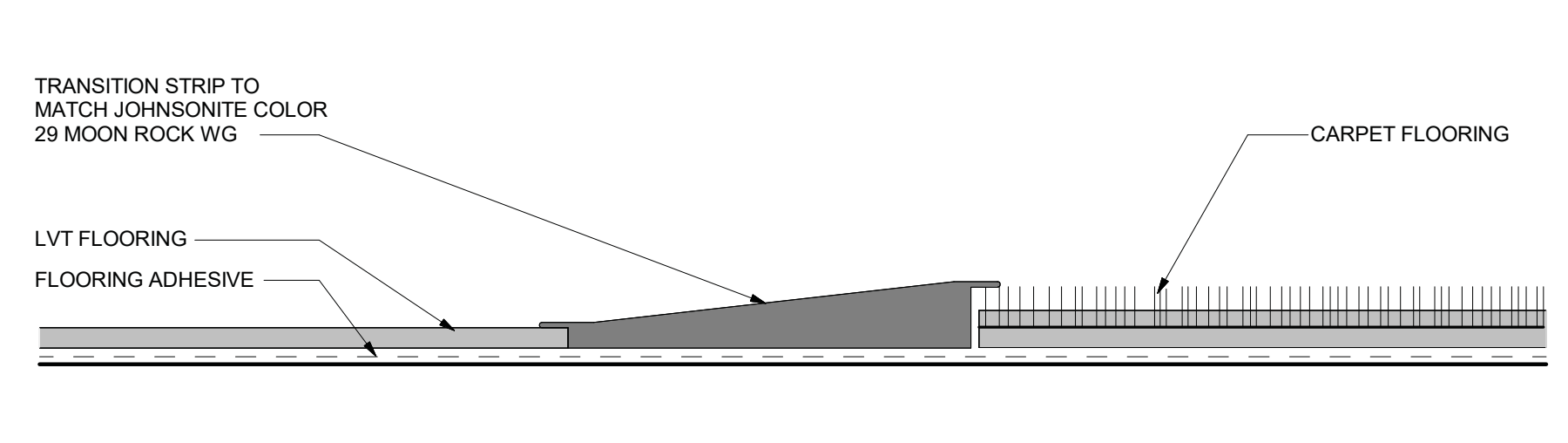
3 Resinous Flooring to Concrete Detail  
 12" = 1'-0"



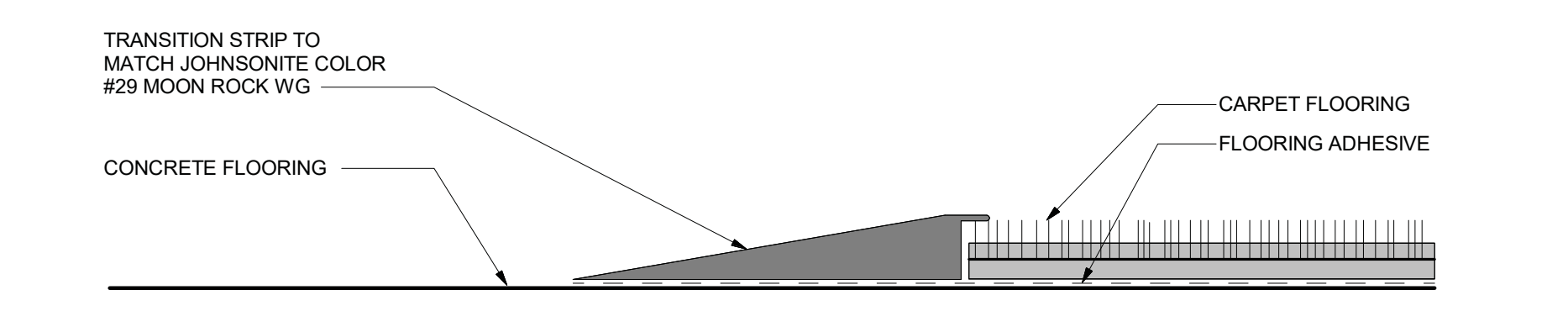
4 Tile to Tile Detail at ADA Shower Threshold  
 12" = 1'-0"



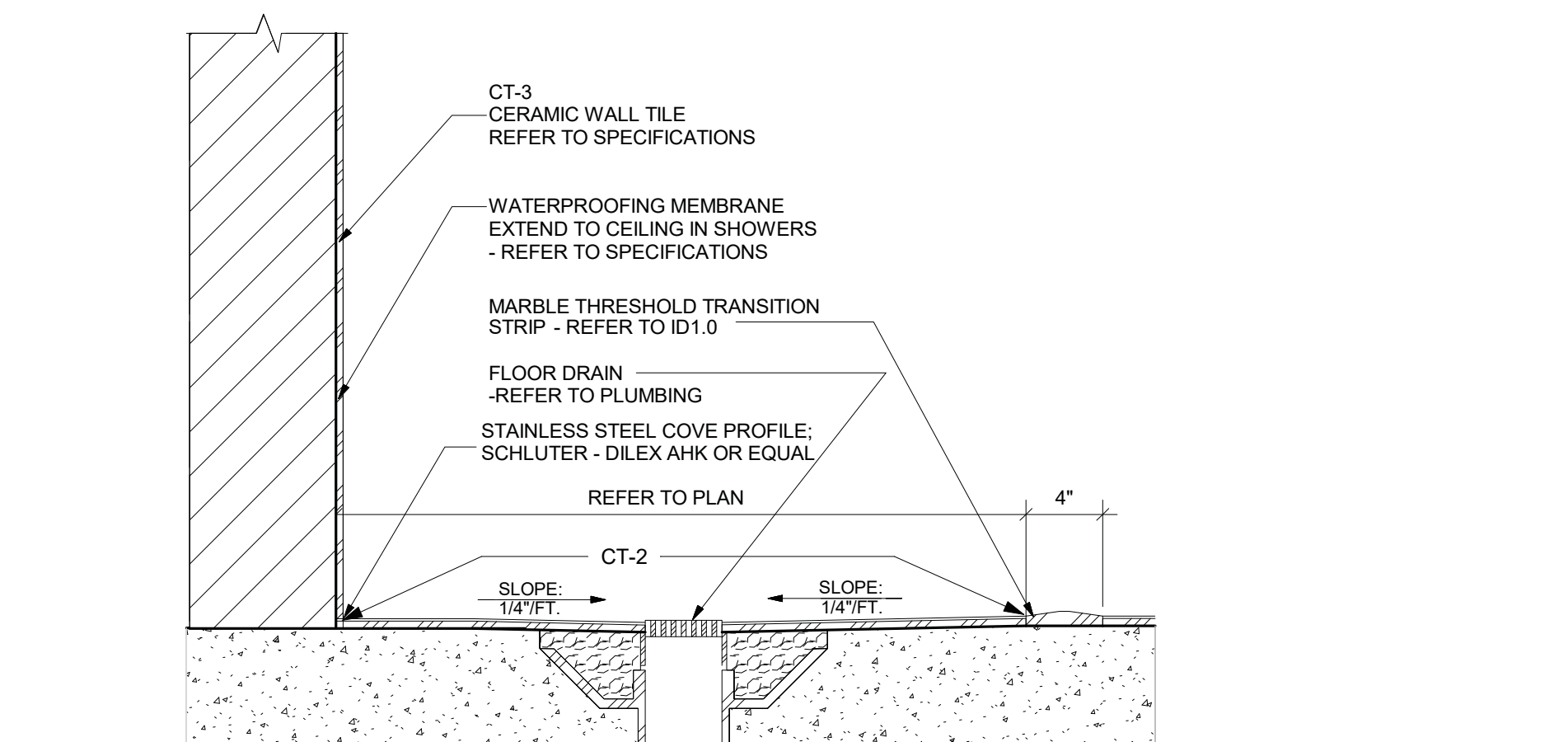
5 LVT to Rubber Athletic Flooring Detail  
 12" = 1'-0"



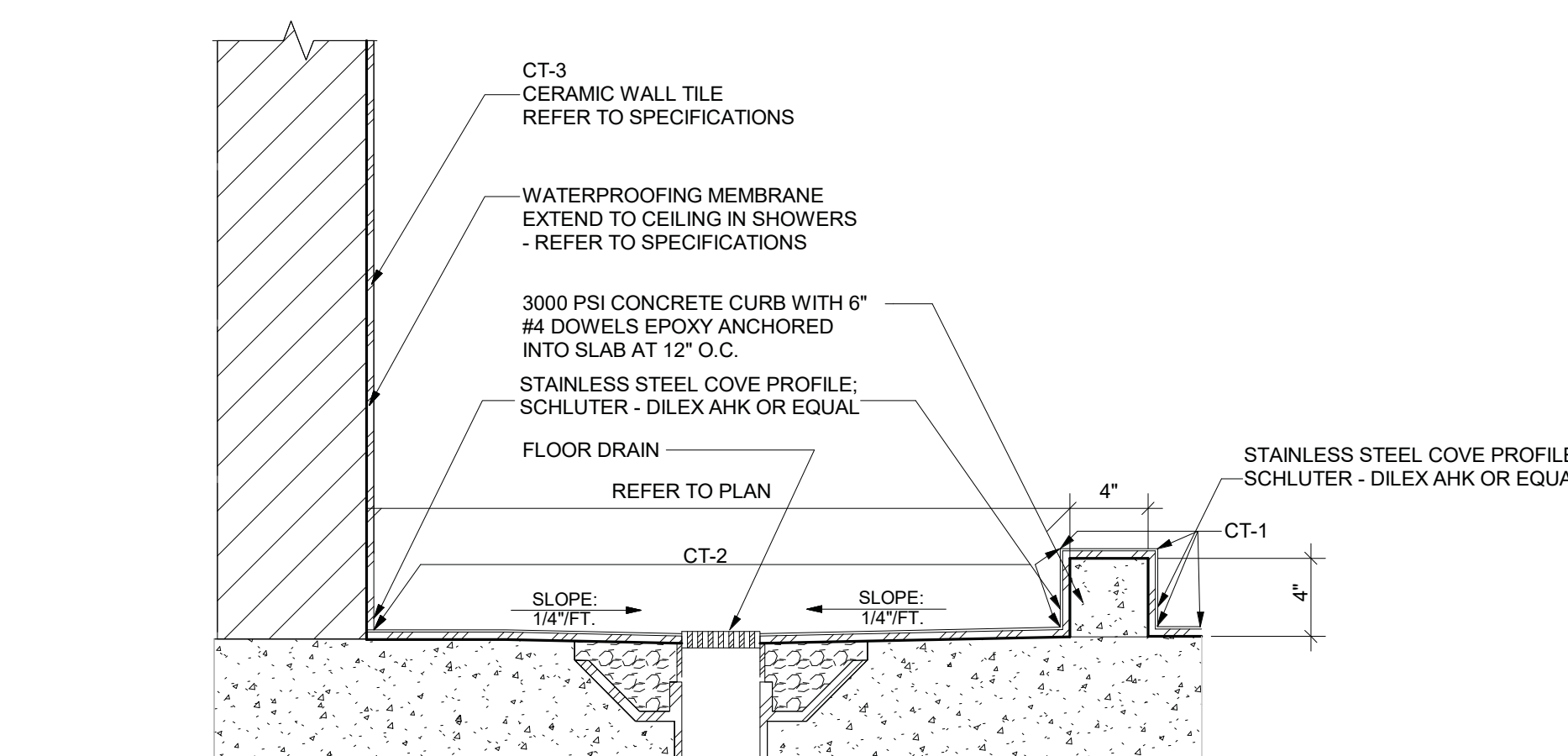
6 LVT to Carpet Detail  
 12" = 1'-0"



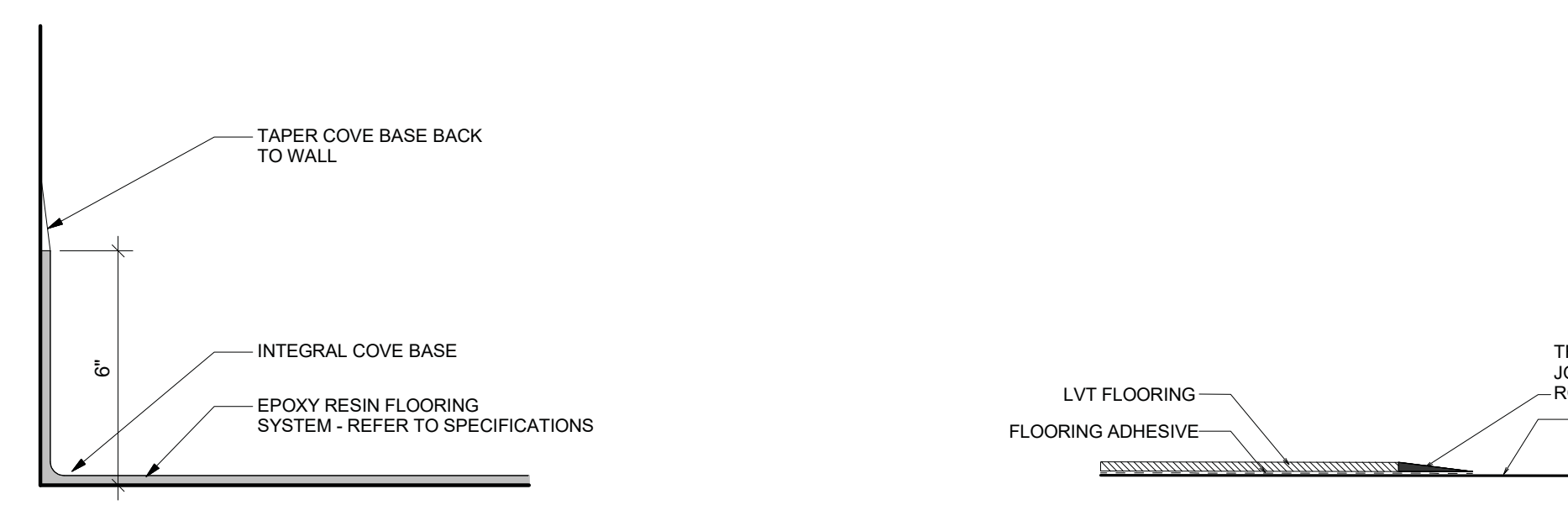
7 Carpet to Concrete Detail  
 12" = 1'-0"



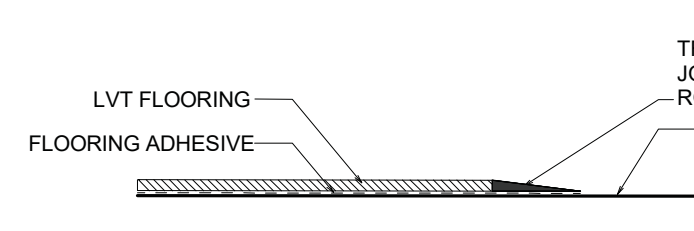
8 ADA Shower Detail  
 12" = 1'-0"



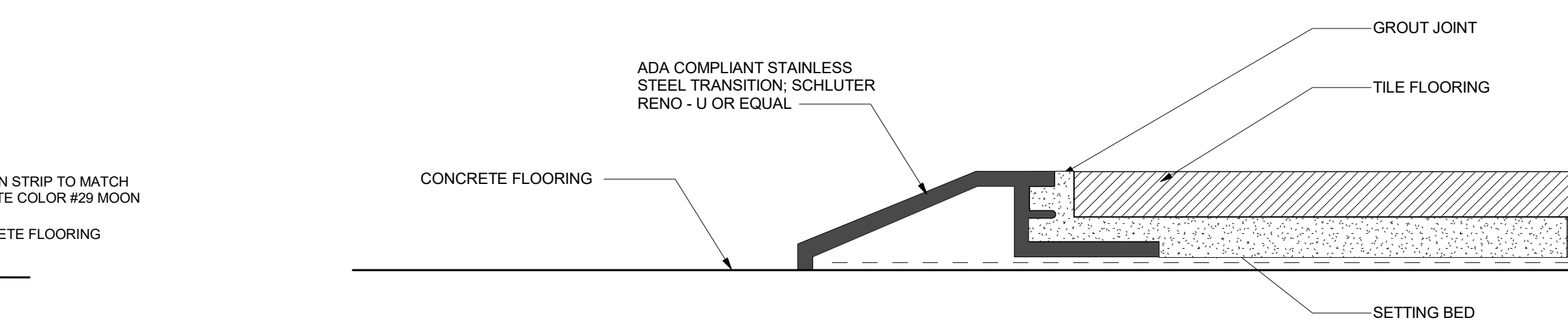
9 Non ADA Shower Detail  
 12" = 1'-0"



10 Epoxy Floor Base Detail  
 12" = 1'-0"



11 LVT to Concrete Detail  
 12" = 1'-0"



12 Concrete to Tile Detail  
 12" = 1'-0"



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DESIGN	HIPD	CHECKED	PPI
DRAWN	HIPD		

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10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

ID 1.0

### General Finish Notes

- ALL INTERIOR HOLLOW METAL DOORS SHALL BE PAINTED PT-5 UNLESS NOTED OTHERWISE.
- ALL INTERIOR WOOD VENEER DOORS AND BUNK ROOM BARN DOORS SHALL BE FROM MASONITE ARCHITECTURAL - ASPIRO SERIES; SPECIES- WHITE OAK PLAIN SLICED, STAIN COLOR- CLEAR; REFER TO SPECIFICATIONS
- ALL INTERIOR DOOR FRAMES SHALL BE PAINTED PT-5 UNLESS NOTED OTHERWISE.
- ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED PT-5 UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD CEILINGS SHALL BE PAINTED PT-9 UNLESS NOTED OTHERWISE.
- AT ALL ROOMS WITHOUT CEILINGS THE INTERIOR ROOF STRUCTURE AND ALL EXPOSED DUCTWORK, CONDUIT AND PIPING SHALL BE PAINTED PT-5 UNLESS NOTED OTHERWISE.
- AT SHOWERS THE WATERPROOFING MEMBRANE SHALL EXTEND UP WALLS TO UNDERSIDE OF CEILING BEHIND TILE. SILLS WITH 2" APRON AT INTERIOR AND EXTERIOR WINDOWS SHALL HAVE SS-1 FINISH.
- ALL INTERIOR GYPSUM WALL OUTSIDE CORNERS TO HAVE CORNER GUARDS (CG-1) U.N.O.; TYP. MOUNTED 4'-0" A.F.F.
- ALL CABINET HARDWARE: AMEROCK; ITEM # AME-363518, MODEL # BP36801SS; FINISH: STAINLESS STEEL; 5" CENTER TO CENTER BAR/CABINET PULL OR EQUAL.
- ALL WOOD BASE 4" HIGH - STRAIGHT BASE. STAIN GRADE WOOD BASE TO MATCH ADJACENT WOOD FINISH.

### GENERAL NOTES

- ALL DIMENSIONS ARE IN FEET & INCHES.
- DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWING PACKAGE AND TECHNICAL ARCHITECTURAL SPECIFICATIONS.
- ALL DIMENSIONS ARE FROM WALL FACE U.N.O.
- EXTEND TILE FLOORING UNDER ALL BASE CABINETS.
- FINISH FOR ALL EXHAUST EXTRACTION VERTICAL SUPPORTS IN THE APPARATUS BAY ARE TO MATCH SHERWIN WILLIAMS SW6907 FORSYTHIA OR EQUAL.
- WHITE BOARDS WITH MARKER TRAY USED IN COMPANY OFFICE & WATCH REPORTS ROOM (TAG WB-2); REFER TO SPECIFICATIONS
- GROUT SIZE FOR FLOORS AND WALL, WHERE NEEDED: 1/16" WIDTH
- AUTOMATIC ROLLER SHADES TO BE USED IN SHARED CONFERENCE ROOM; MANUAL ROLLER SHADES TO BE USED IN PATROL OFFICE, PATROL SUPERVISOR OFFICE, AND PATROL LOBBY - REFER TO SPECIFICATIONS

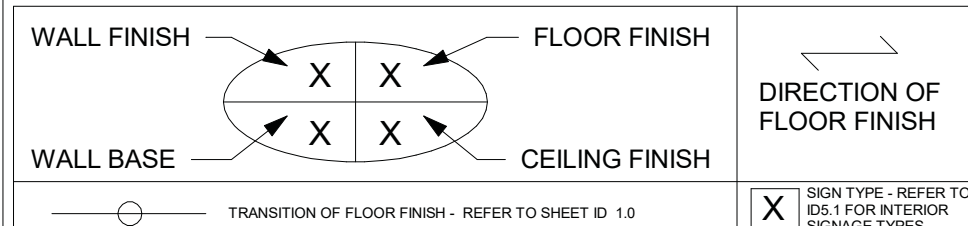
### FINISH ABBREVIATIONS

LVT	LUXURY VINYL TILE
RT	RUBBER TILE
RB	RUBBER BASE
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
PT	PAINT
VWC	VINYL WALLCOVERING
WB	WHITE BOARD
SS	SOLID SURFACING
PL	PLASTIC LAMINATE
WD	STAINED WOOD
EP	EPOXY
WM	WALK OFF MAT
CONC	TINTED CONCRETE

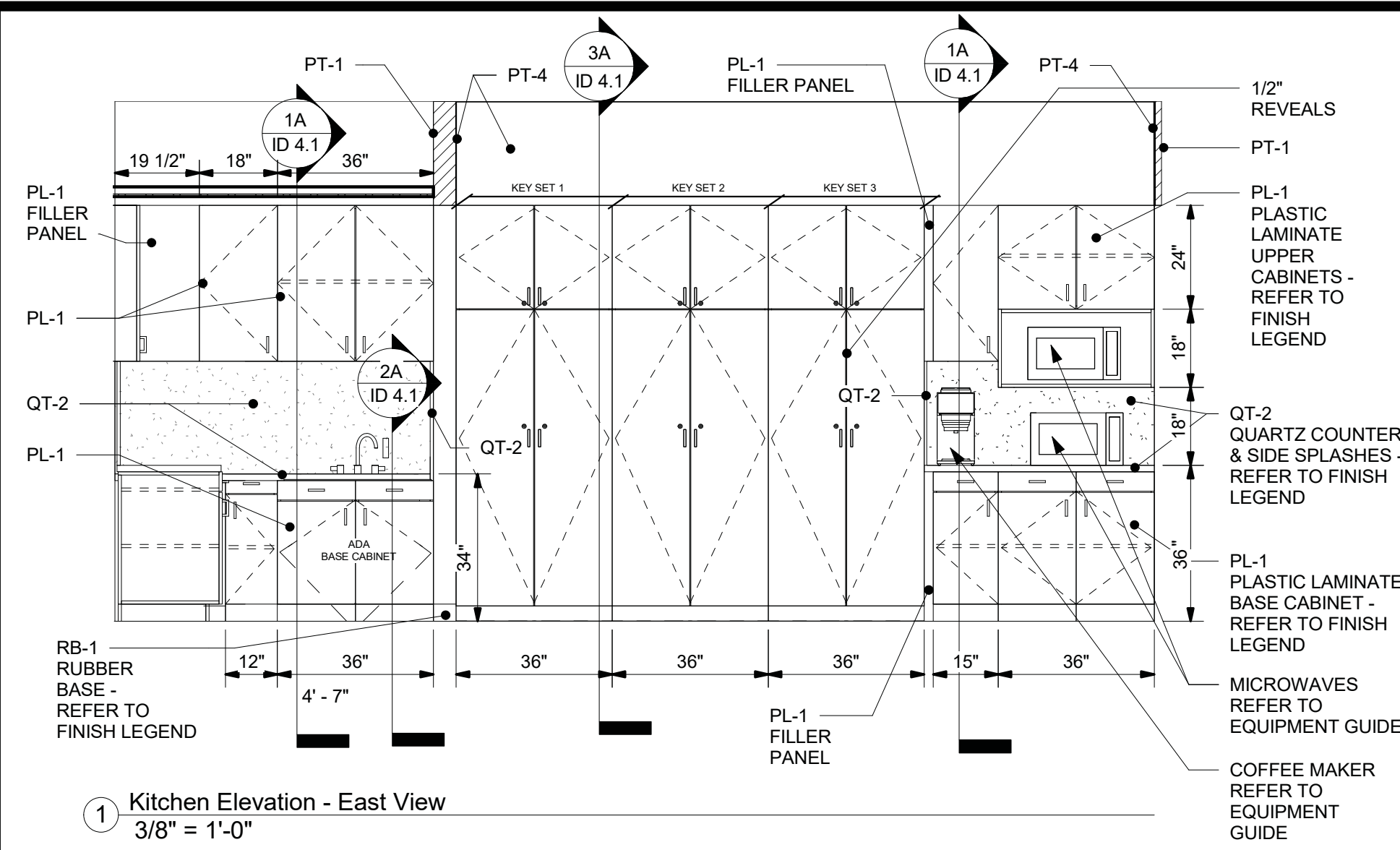
### Interior Finish Keynotes

- WOOD GRID ACCENT WALL AT TELEVISION WALL; TAG WD-2; WOOD PANELS APPLIED DIRECTLY TO GYP. WALL; REFER TO DETAIL 5 ON SHEET ID 4.2
- PAINTED ACCENT WALL AT BUNK ROOMS - WALL OPPOSITE OF ENTRY; TYP. IN ALL BUNK ROOMS; PT-2 AT POD A & OFFICER BUNK 1; PT-3 AT POD B & OFFICER BUNK 2
- PAINTED ACCENT HEADER WALL AT KITCHEN; TAG PT-4
- WOOD WALL AT BUNK ROOM CORRIDOR; TAG WD-3; WOOD PANELS APPLIED DIRECTLY TO GYP. WALL
- ACCENT WALL VINYL AT LOBBY; TAG VWC-1
- ACCENT EPOXY FLOORING EP-2 AS DIMENSIONED; WRAP FLOORING UP WALL 6" WITH COVE TRANSITION. REFER TO MANUFACTURER'S DETAILS. TAG EP-2
- MAGNETIC WHITE BOARD / DRY ERASE BOARD AT DAYROOM; TAG WB-1; SNAP ON METAL TRIM AT CORNERS - DRY ERASE BOARD MATERIAL AND SNAP ON TRIM TO RUN FLOOR TO CEILING; RB-1 BASE OVER WB-1.
- FURRING WITH 5/8" GYPSUM BOARD UP TO SOLID SURFACE SILL; GYPSUM BOARD TO BE PT-5
- EXPOSED PRECAST WITH CHARCOAL THIN BRICK
- EXPOSED PRECAST CONCRETE WALL - SMOOTH FINISH - NO TINT
- METAL STUD FURRING WITH GYPSUM BOARD UP TO CEILING - REFER TO FINISH LEGEND FOR PAINT USED ON MAIN WALLS THROUGHOUT
- EXPOSED PRECAST WITH CHARCOAL THIN BRICK THIS FACE - 8'-0" H
- ACCENT RUBBER FLOORING MIXED IN WITH MAIN RUBBER FLOORING TO CREATE GRID DESIGN IN FITNESS AREA; ACCENT FLOORING TAGS RT-2 & RT-3; REFER TO ENLARGED FITNESS CENTER FLOORING PLAN ON 2 | ID 2.1
- PAINTED ACCENT WALL AT BUNK ROOM CORRIDOR; TAG PT-7
- CARPET TILE INSTALLATION PATTERN: BRICK
- WALK OFF CARPET TILE INSTALLATION PATTERN: MONOLITHIC
- ALUMINUM THRESHOLD; TERMINATE FINISHES UNDER DOOR - REFER TO DOOR HARDWARE SPECIFICATIONS

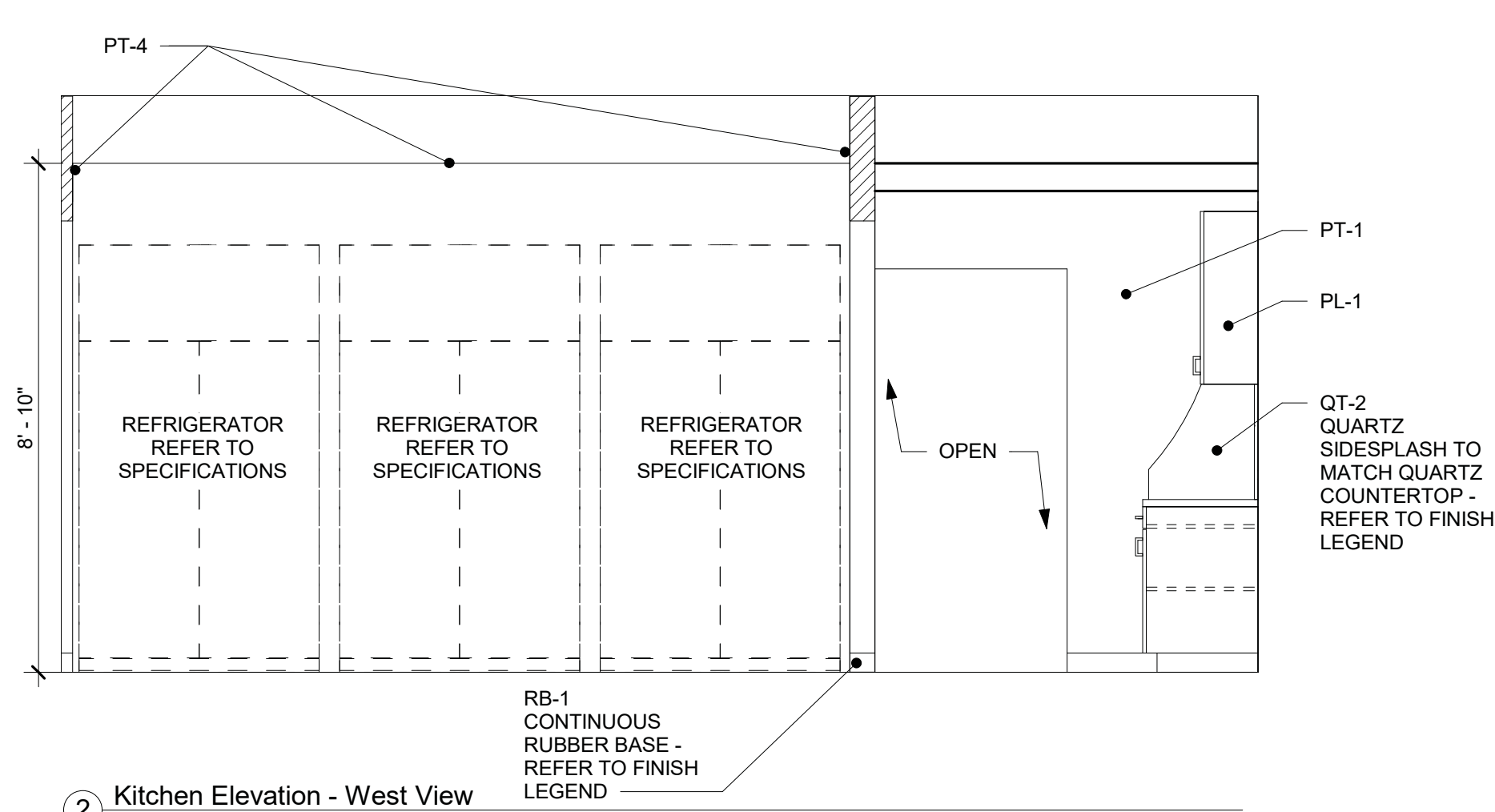
### Interior Finish Legend



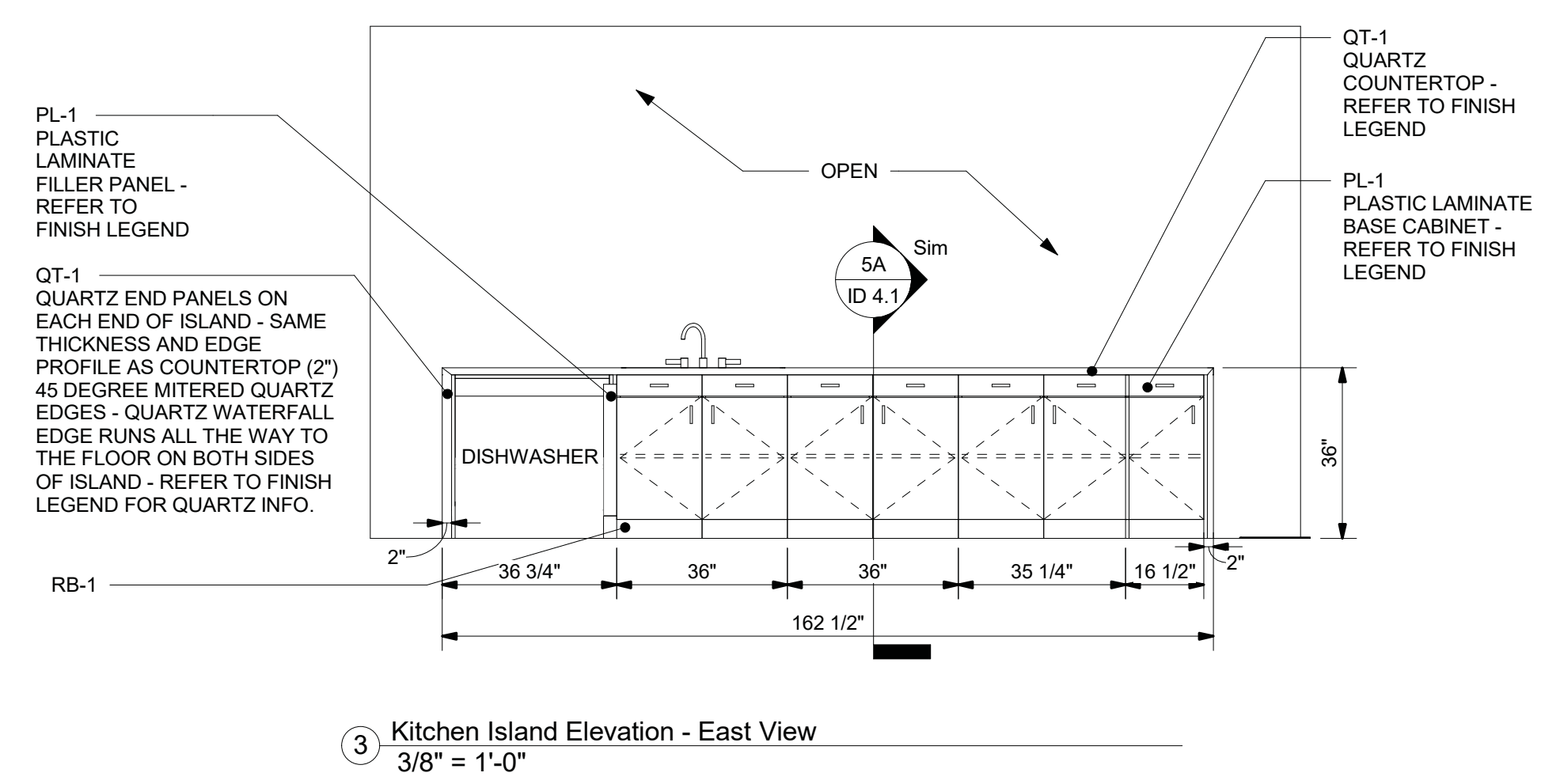
MANUFACTURER	SYMBOL NUMBER	COLOR/FINISH	THICKNESS
<b>FLOORS</b>			
LVT-1	MOHAWK GROUP	Hedges Sand GLEET	800 Aldehyde Free Enhanced LVT
RT-1	BENTLEY MILLS	Dumpline BRMTR	Permanet BRMTR
RT-2	BENTLEY MILLS	Dumpline BRMTR	Mosaic BRMTR
RT-3	DAVILE	Volume 3.0	Stain Gray V3.0
CT-1	DAVILE	Color Match Mosaic	Architectural Gray CT-1
CT-2	SHERWIN WILLIAMS	Fastig Multi-Tuff	484 Steel Gray
CT-3	SHERWIN WILLIAMS	Fastig Multi-Tuff	To match SW5088
EP-1	SHERWIN WILLIAMS	Fastig Multi-Tuff	Steel
EP-2	MANHATTAN FLOORING	Smart	Black Terra RB
EP-3	MANHATTAN FLOORING	Smart	Gray Terra RB
EP-4	MANHATTAN FLOORING	Smart	Red Terra RB
WB-1	MOHAWK GROUP	White	3/8" x 36"
CONC	SHERWIN WILLIAMS	Coat	Steel color: Gull Gray HC121
<b>WALLS</b>			
PT-1	JOHNSONITE/TARRANT	Additional Wall Base	28 Mesh Steel VWC
PT-2	SHERWIN WILLIAMS	Fastig Multi-Tuff	To match SW5088
PT-3	SHERWIN WILLIAMS	Fastig Multi-Tuff	Steel
PT-4	SHERWIN WILLIAMS	SW7006	Color White Finish
PT-5	SHERWIN WILLIAMS	SW7007	Color White Finish
PT-6	SHERWIN WILLIAMS	SW7008	Color White Finish
PT-7	SHERWIN WILLIAMS	SW7009	Color White Finish
PT-8	SHERWIN WILLIAMS	SW7010	Color White Finish
PT-9	SHERWIN WILLIAMS	SW7011	Color White Finish
PT-10	SHERWIN WILLIAMS	SW7012	Color White Finish
PT-11	SHERWIN WILLIAMS	SW7013	Color White Finish
PT-12	SHERWIN WILLIAMS	SW7014	Color White Finish
PT-13	SHERWIN WILLIAMS	SW7015	Color White Finish
PT-14	SHERWIN WILLIAMS	SW7016	Color White Finish
PT-15	SHERWIN WILLIAMS	SW7017	Color White Finish
PT-16	SHERWIN WILLIAMS	SW7018	Color White Finish
PT-17	SHERWIN WILLIAMS	SW7019	Color White Finish
PT-18	SHERWIN WILLIAMS	SW7020	Color White Finish
PT-19	SHERWIN WILLIAMS	SW7021	Color White Finish
PT-20	SHERWIN WILLIAMS	SW7022	Color White Finish
PT-21	SHERWIN WILLIAMS	SW7023	Color White Finish
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PT-227			



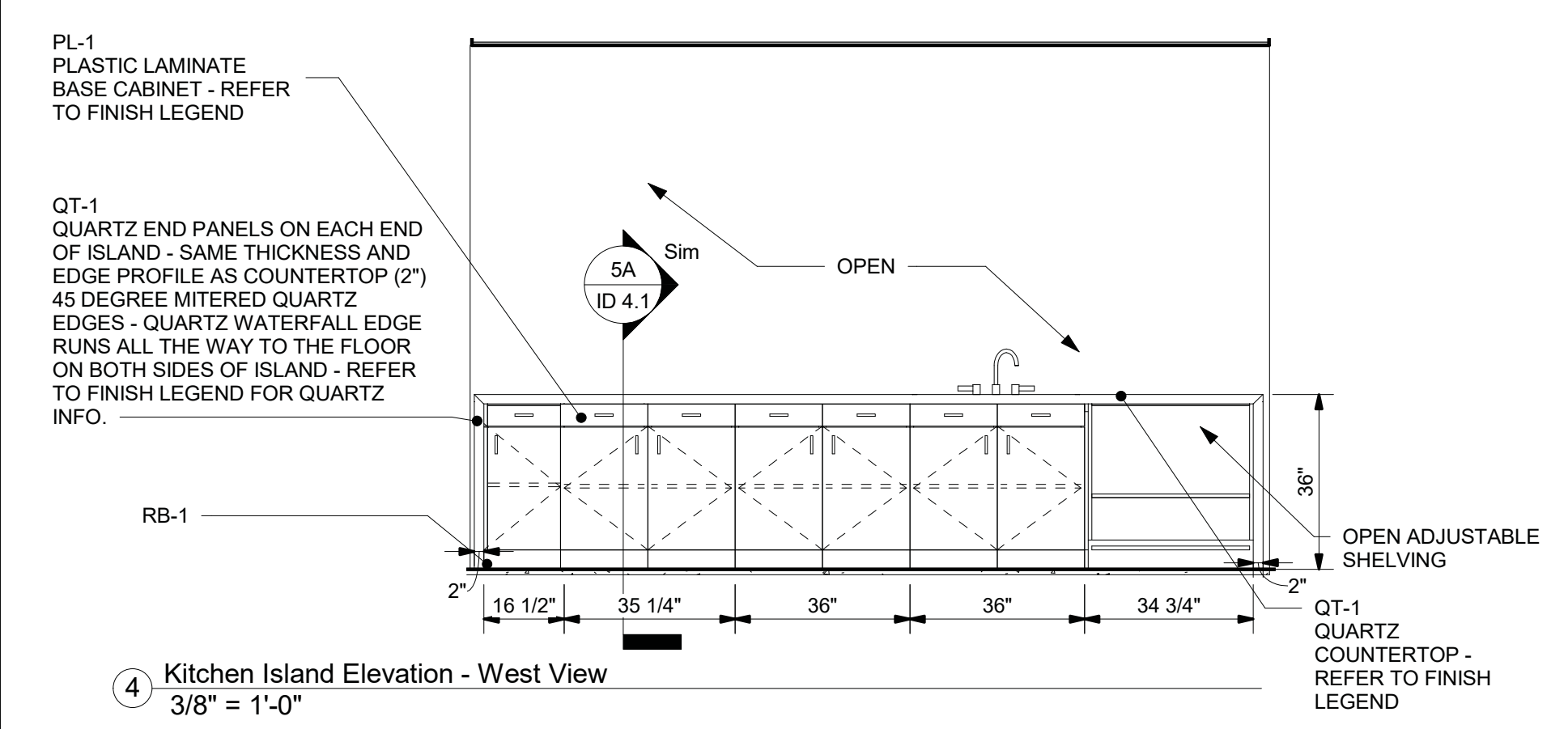
1 Kitchen Elevation - East View  
 3/8" = 1'-0"



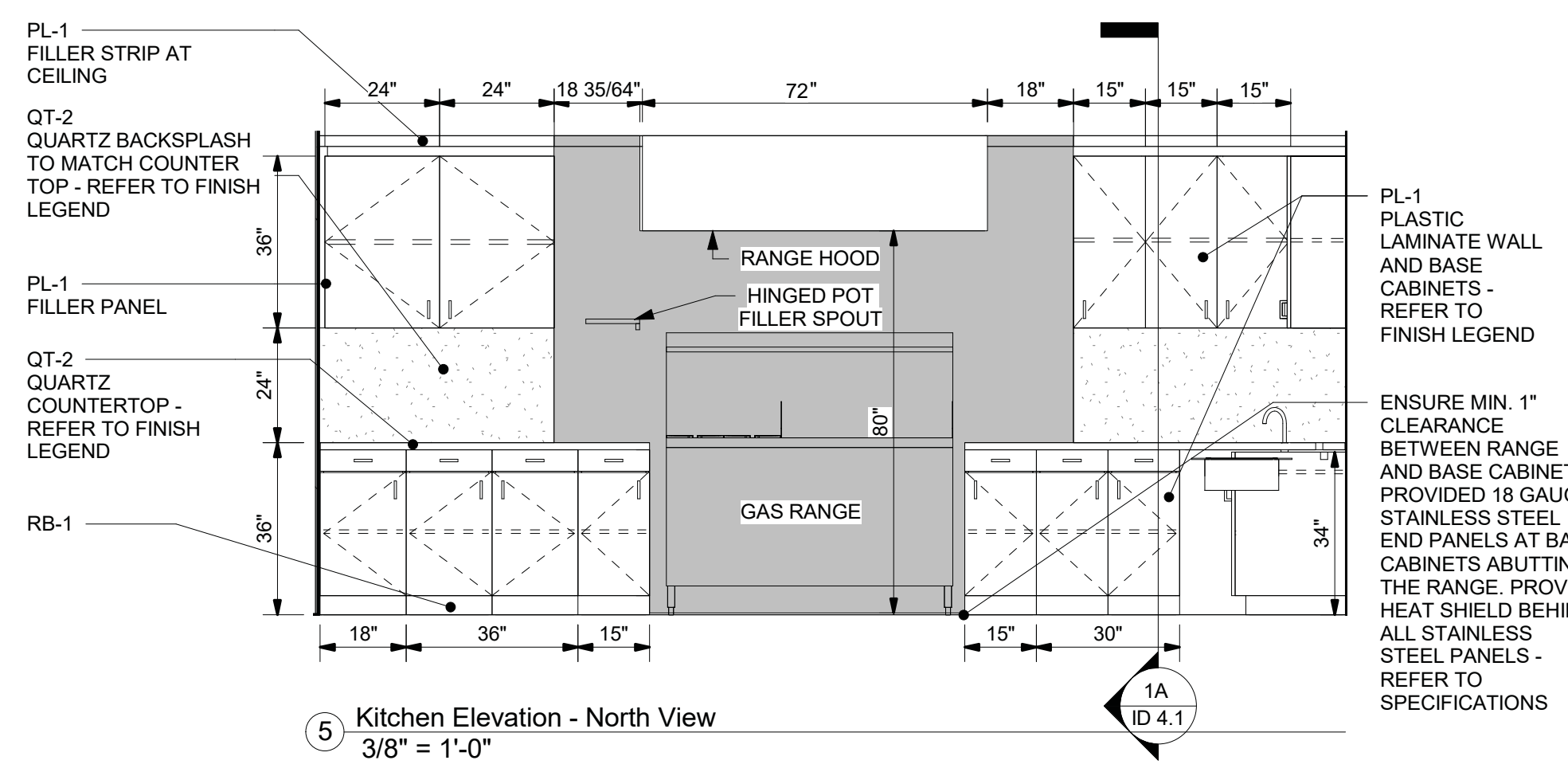
2 Kitchen Elevation - West View  
 3/8" = 1'-0"



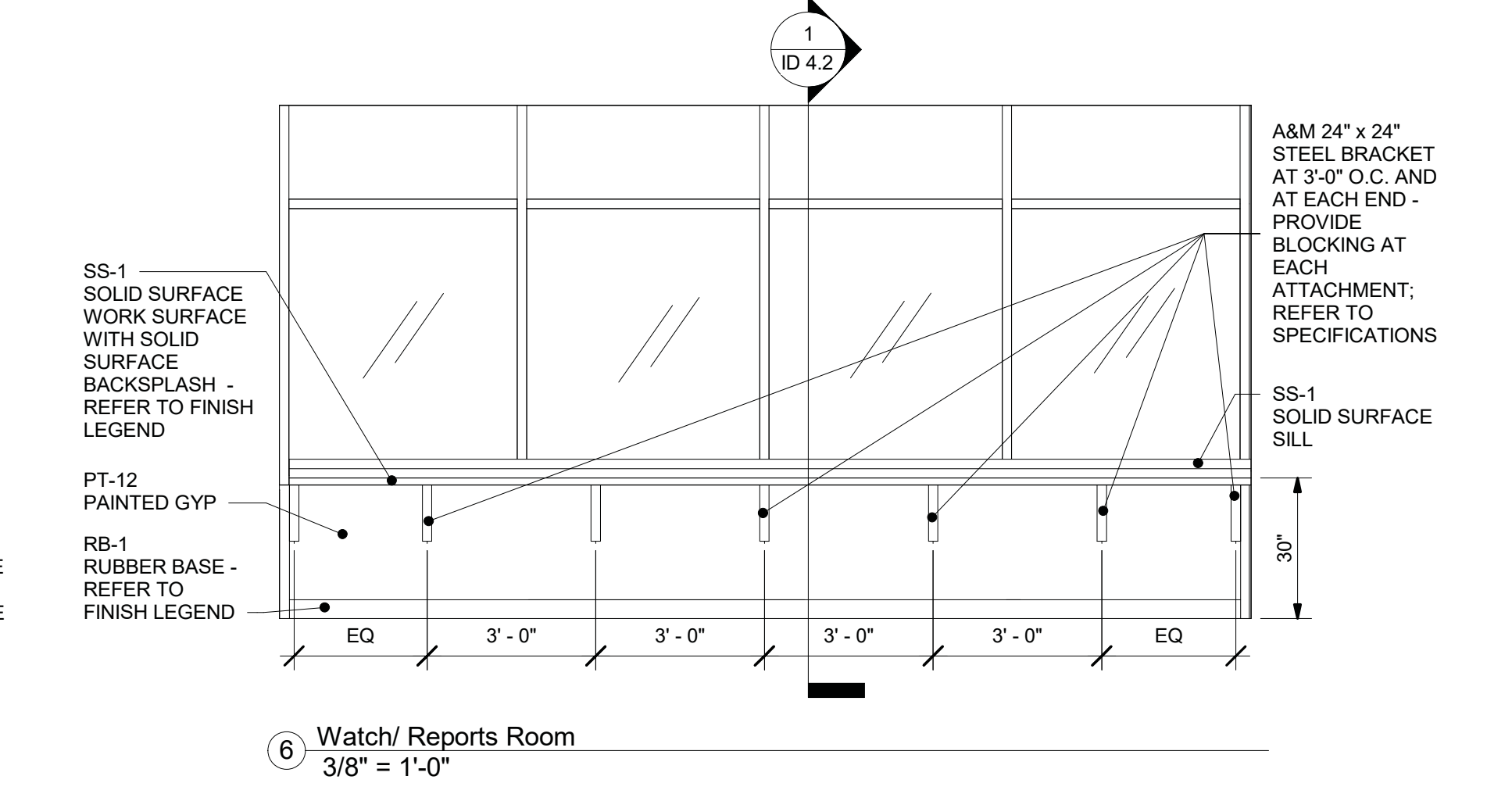
3 Kitchen Island Elevation - East View  
 3/8" = 1'-0"



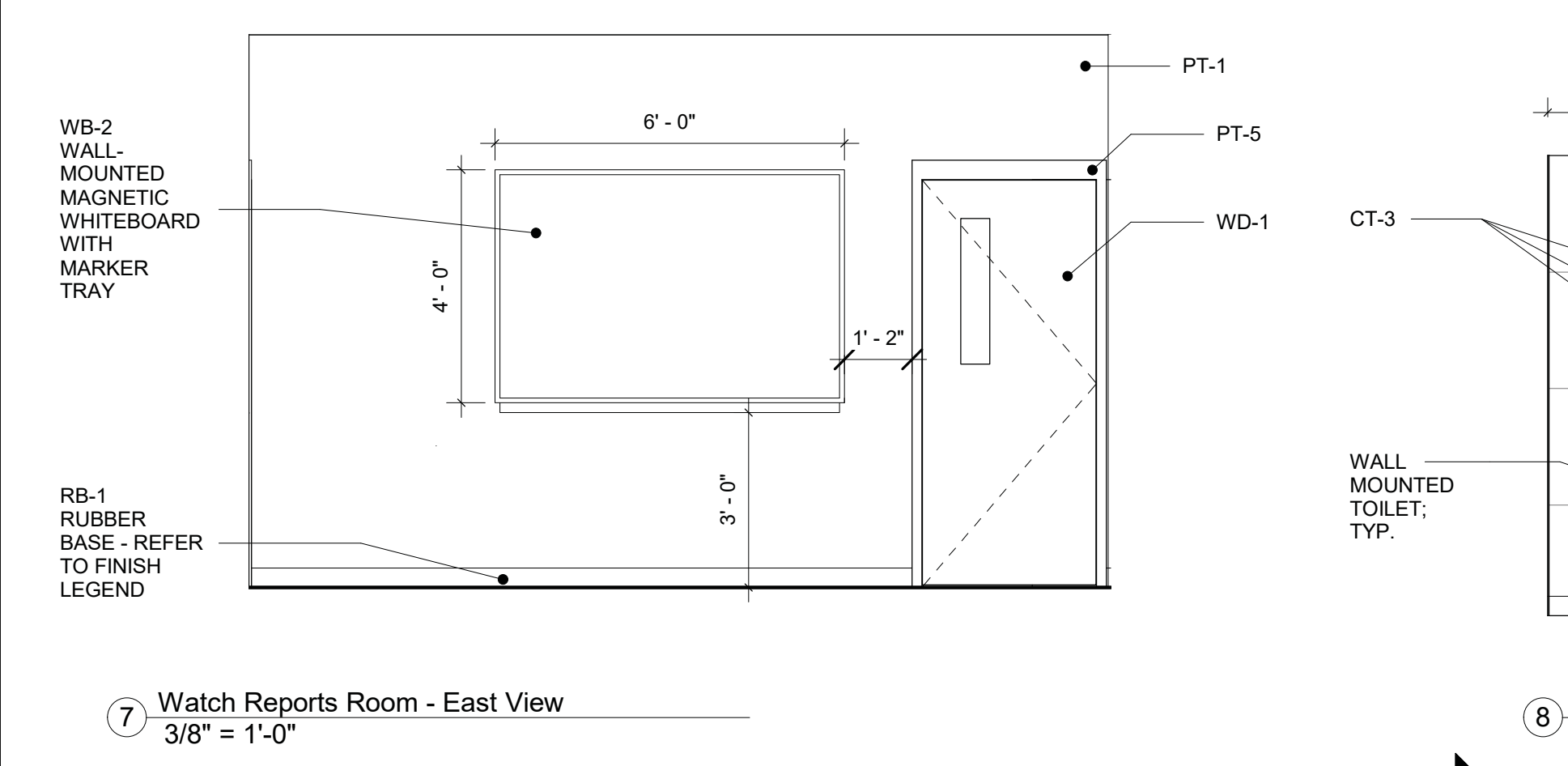
4 Kitchen Island Elevation - West View  
 3/8" = 1'-0"



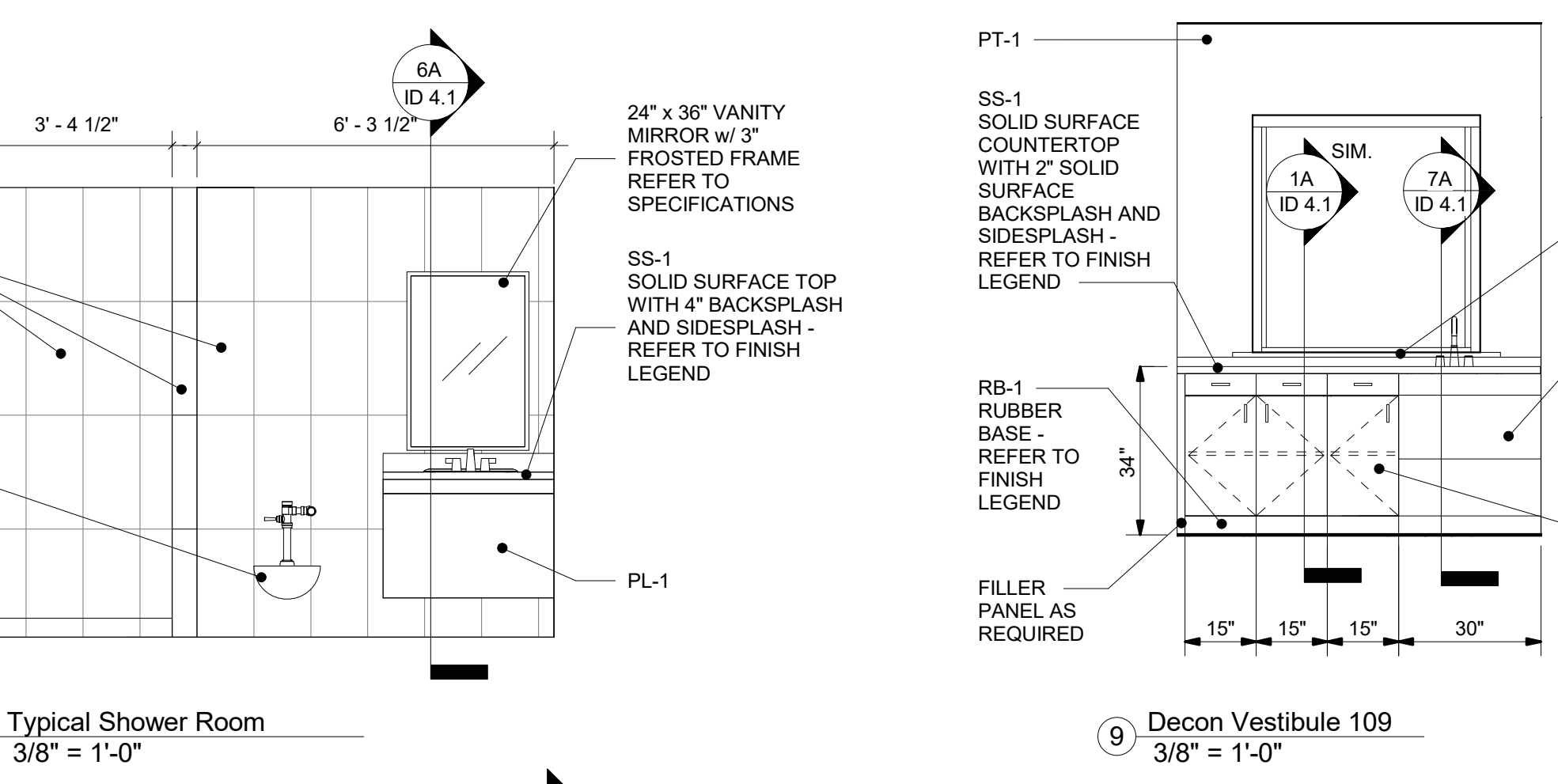
5 Kitchen Elevation - North View  
 3/8" = 1'-0"



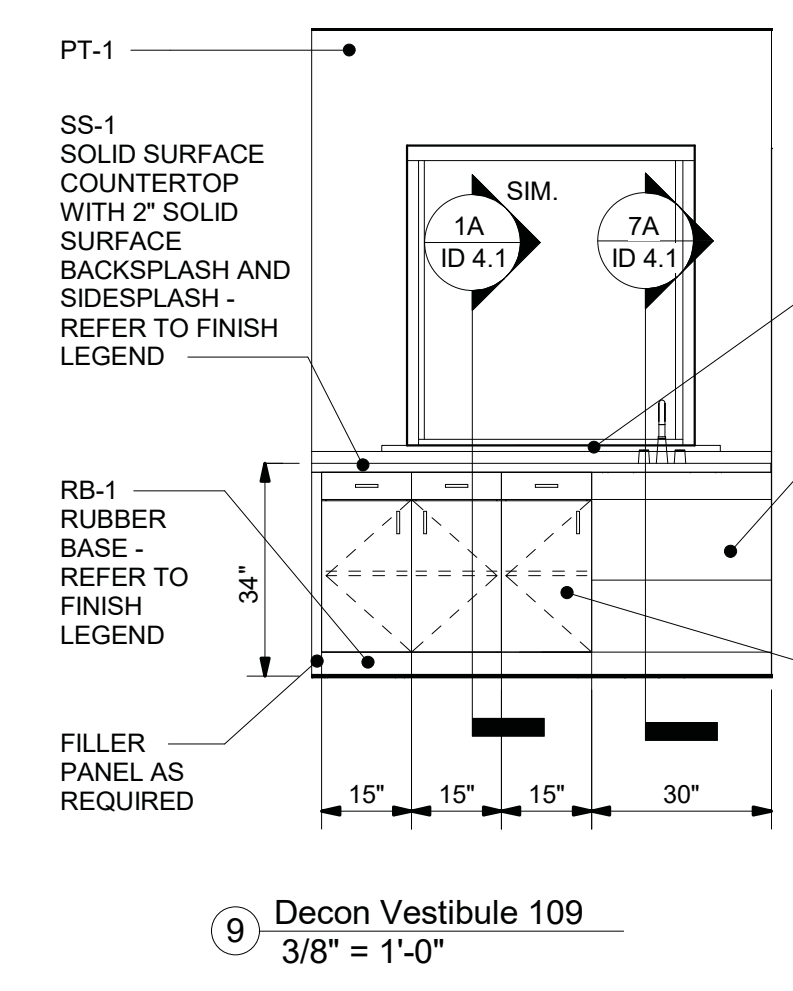
6 Watch/Reports Room  
 3/8" = 1'-0"



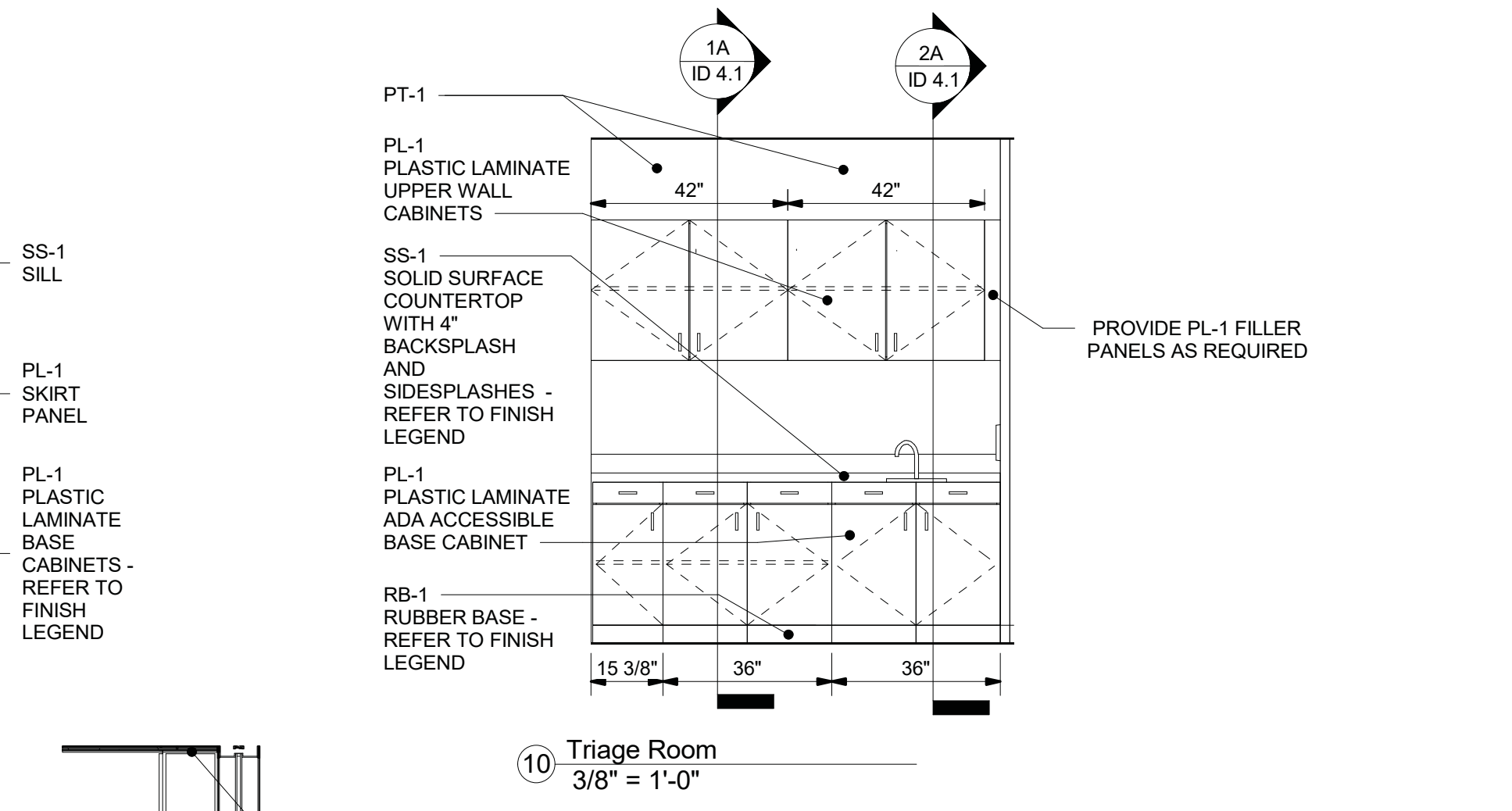
7 Watch Reports Room - East View  
 3/8" = 1'-0"



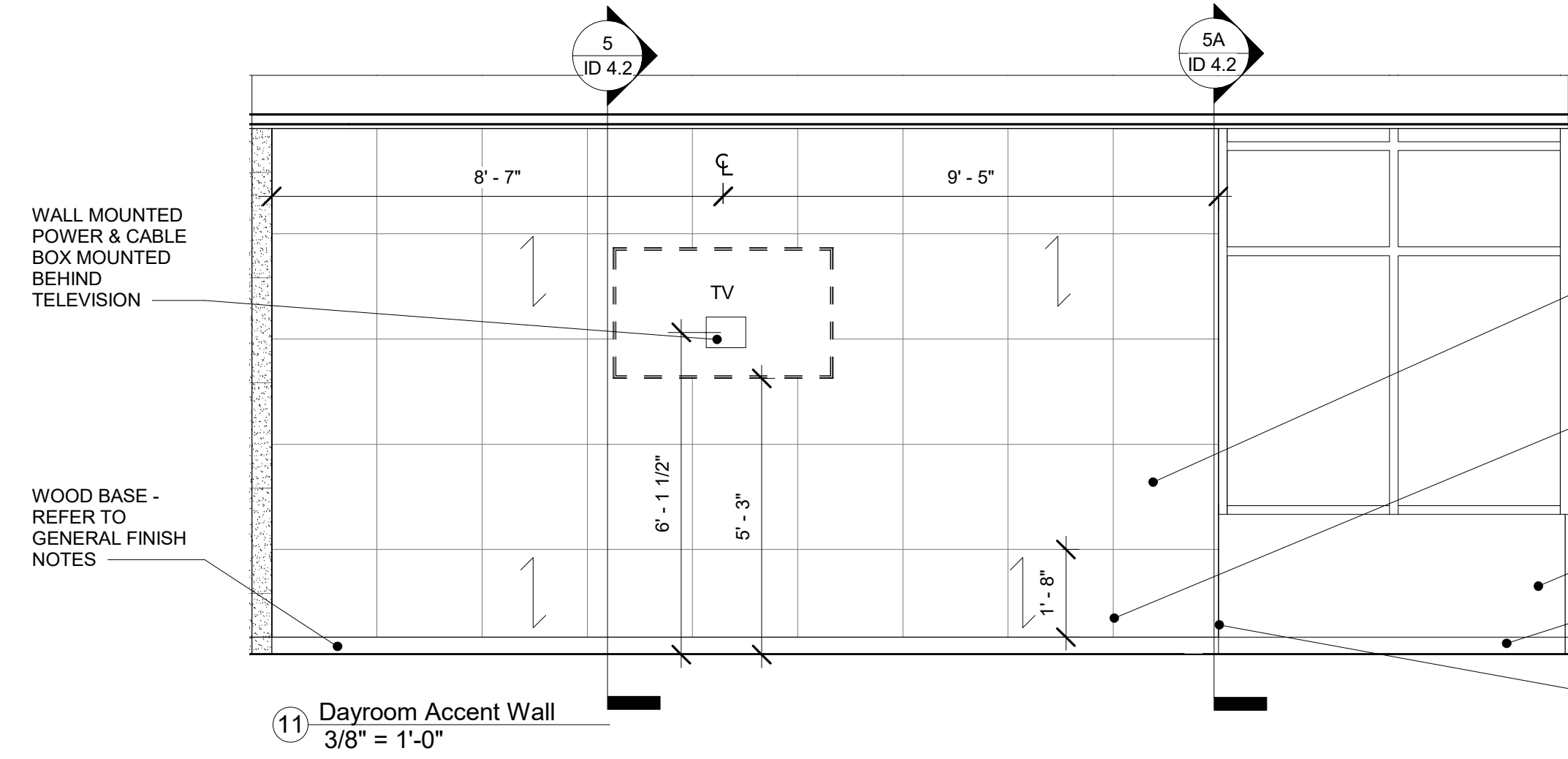
8 Typical Shower Room  
 3/8" = 1'-0"



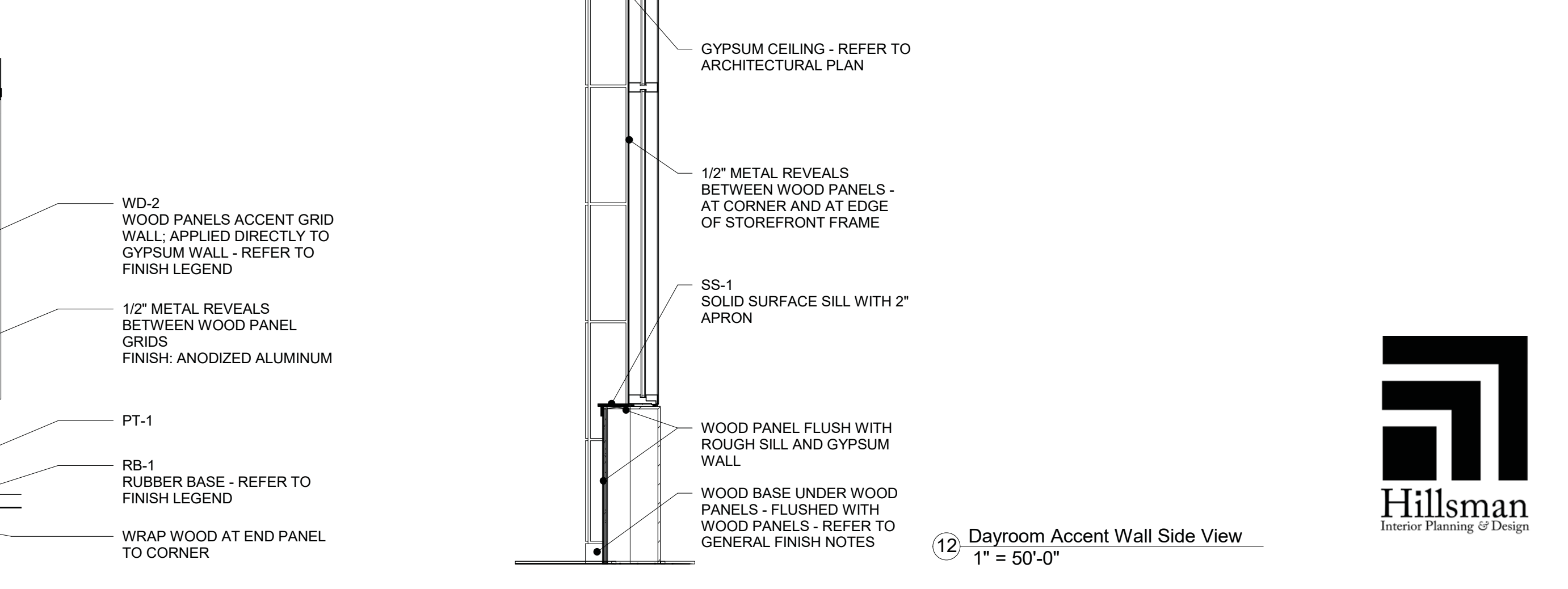
9 Decon Vestibule 109  
 3/8" = 1'-0"



10 Triage Room  
 3/8" = 1'-0"



11 Dayroom Accent Wall  
 3/8" = 1'-0"



12 Dayroom Accent Wall Side View  
 1" = 50'-0"

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PRECISION PLANNING, INC.  
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**PRECISION**  
 Planning Inc.  
 planners • engineers • architects • surveyors  
 400 Pike Boulevard, Lawrenceville, GA 30046  
 770.338.8000 • www.ppi.us

**GILLEM PUBLIC SAFETY FACILITY**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30237  
 PROJECT

INTERIOR FINISH ELEVATIONS  
 DESIGN HYPD  
 DRAWN HYPD  
 CHECKED PPI

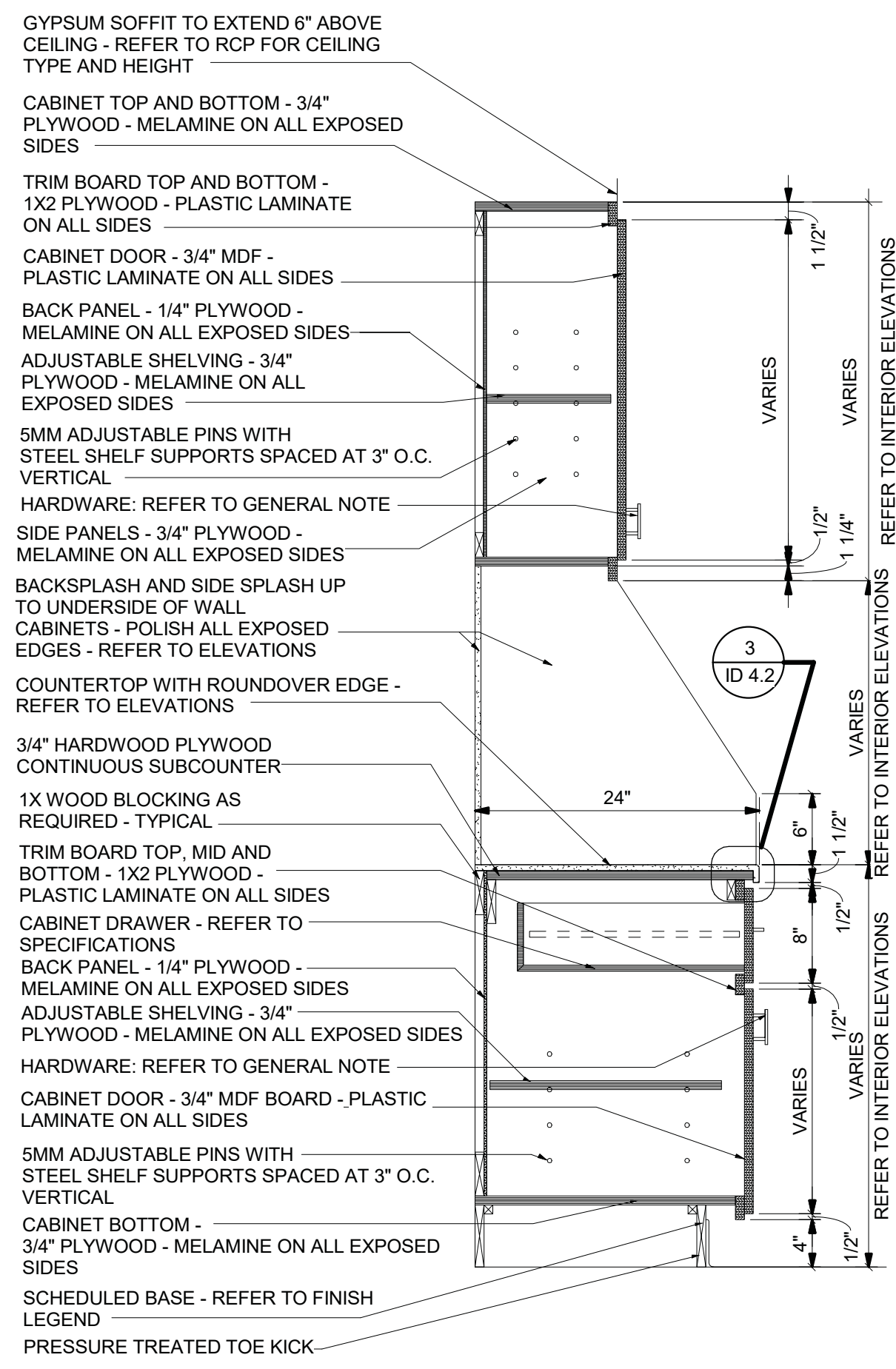
NO.	RELEASED FOR BID	SHEET TITLE
10/26/21		

10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

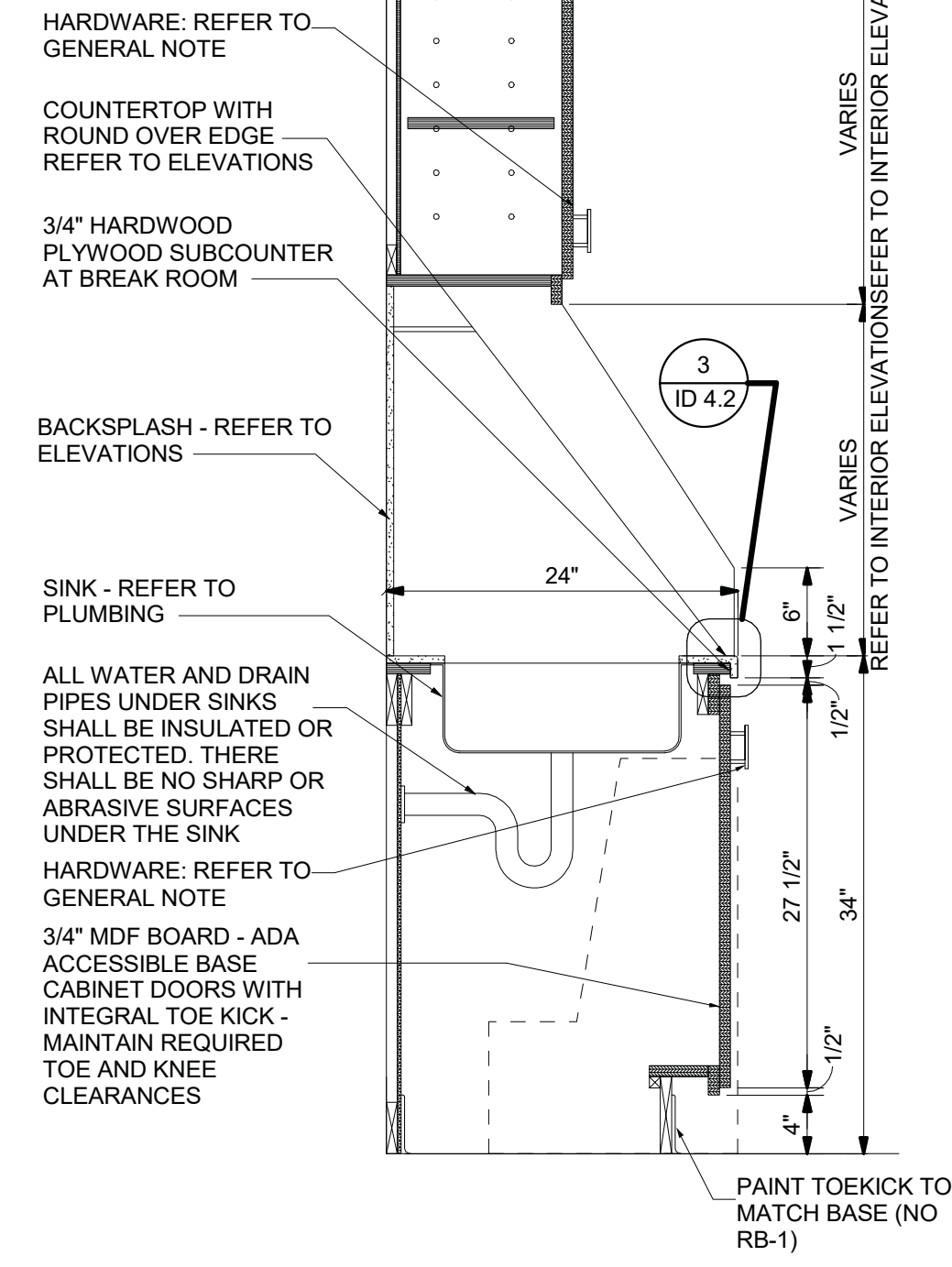
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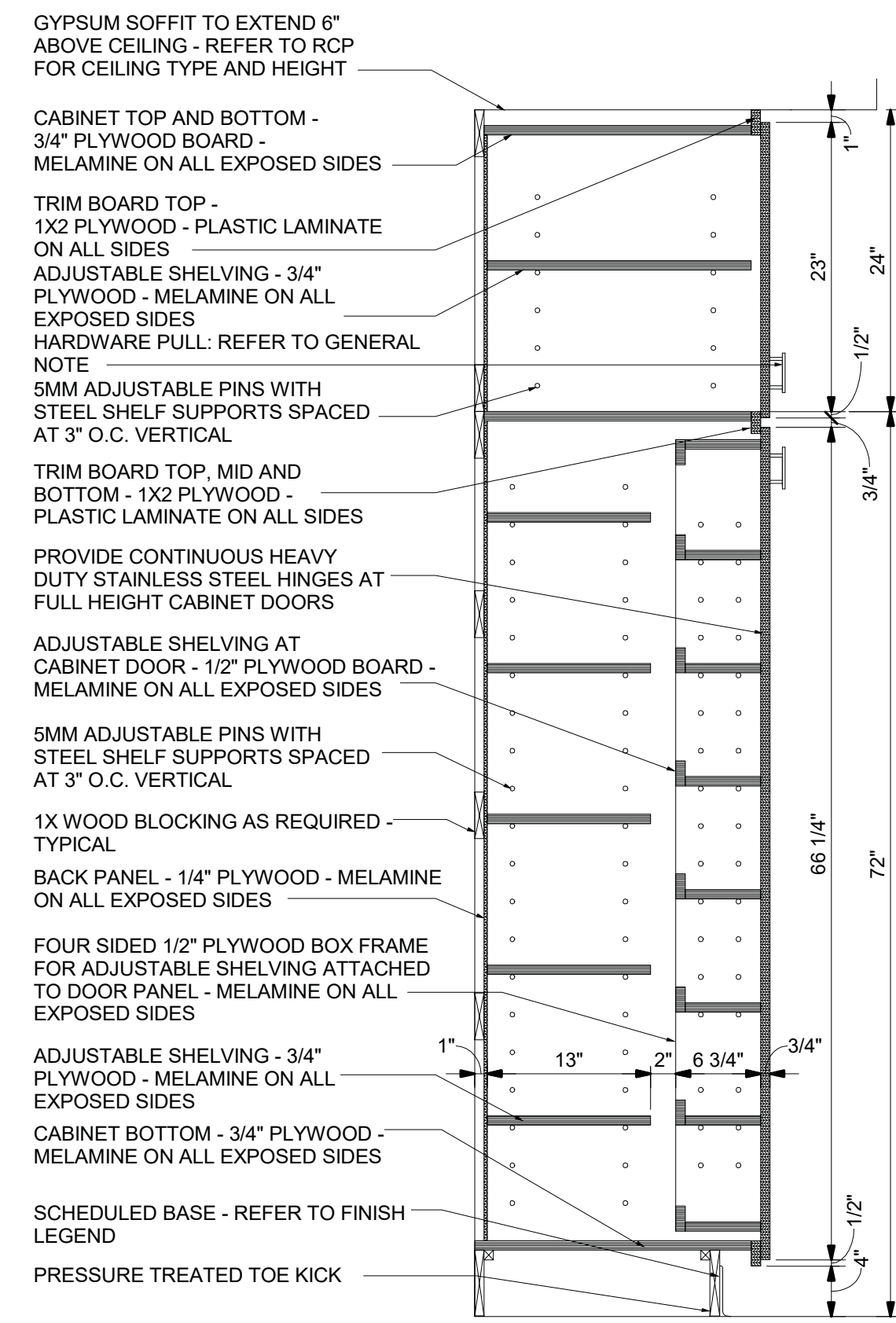




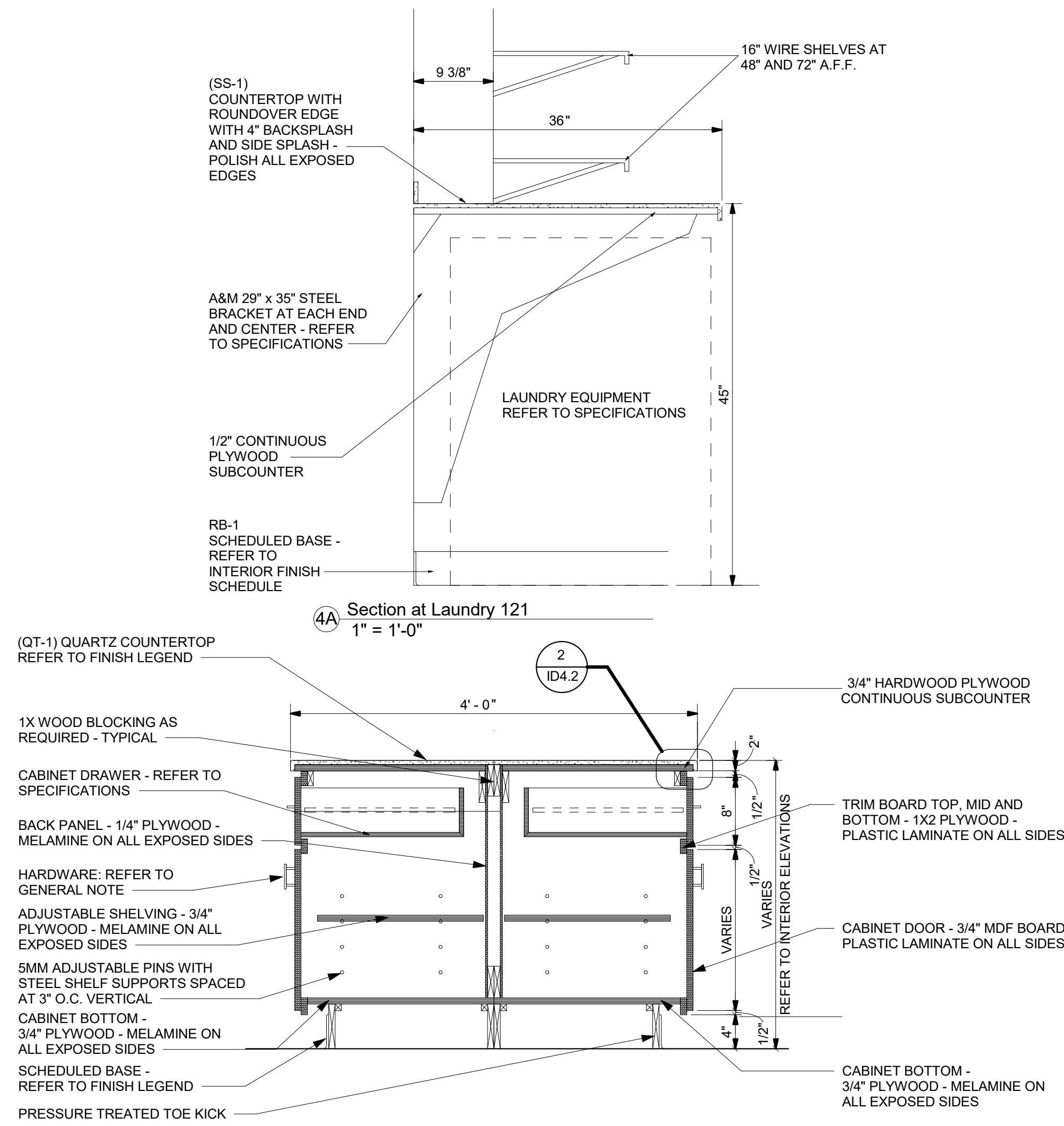
1A Typical Millwork Section  
 1" = 1'-0"



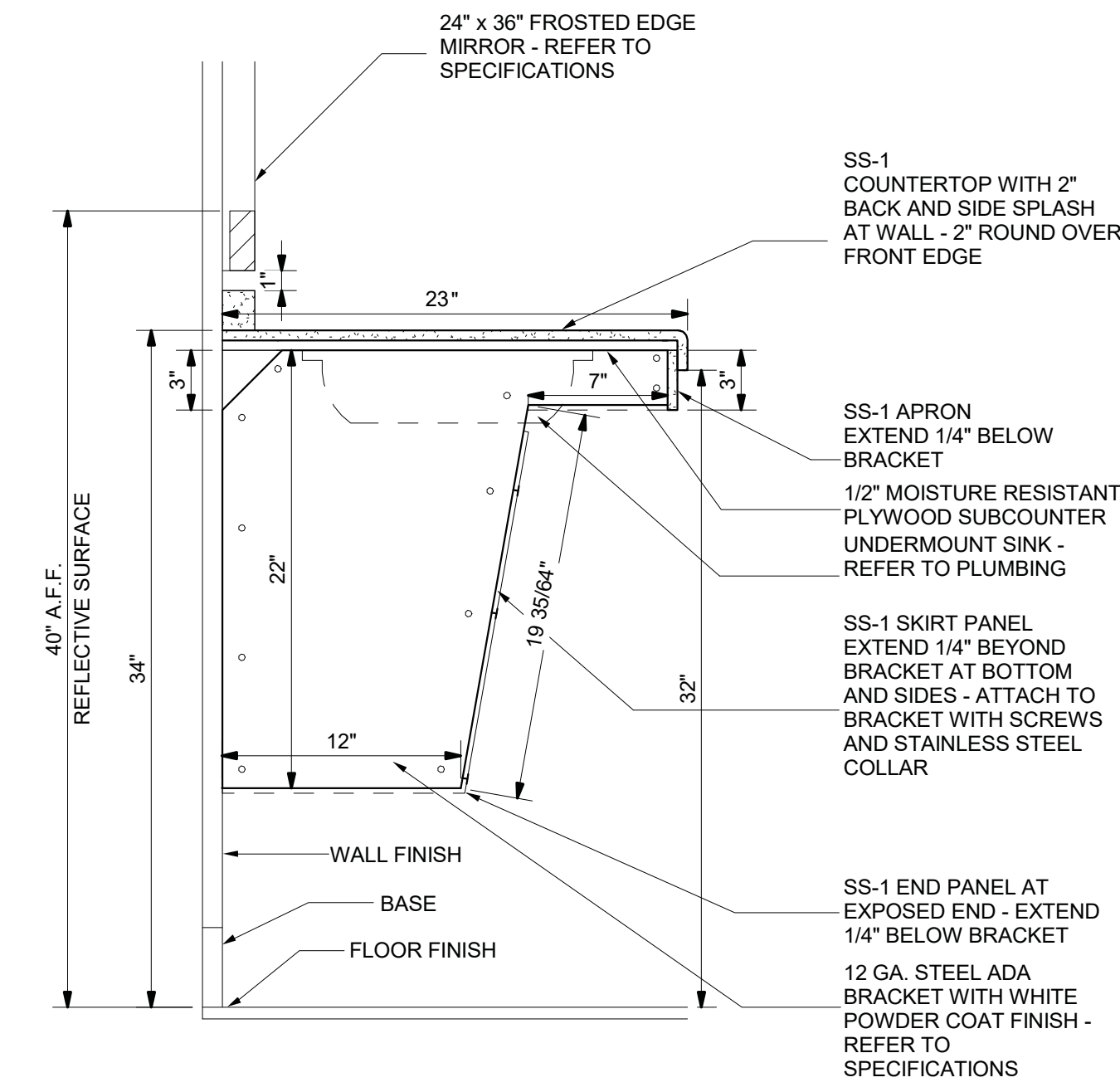
2A Typical Millwork Section at ADA Sink  
 1" = 1'-0"



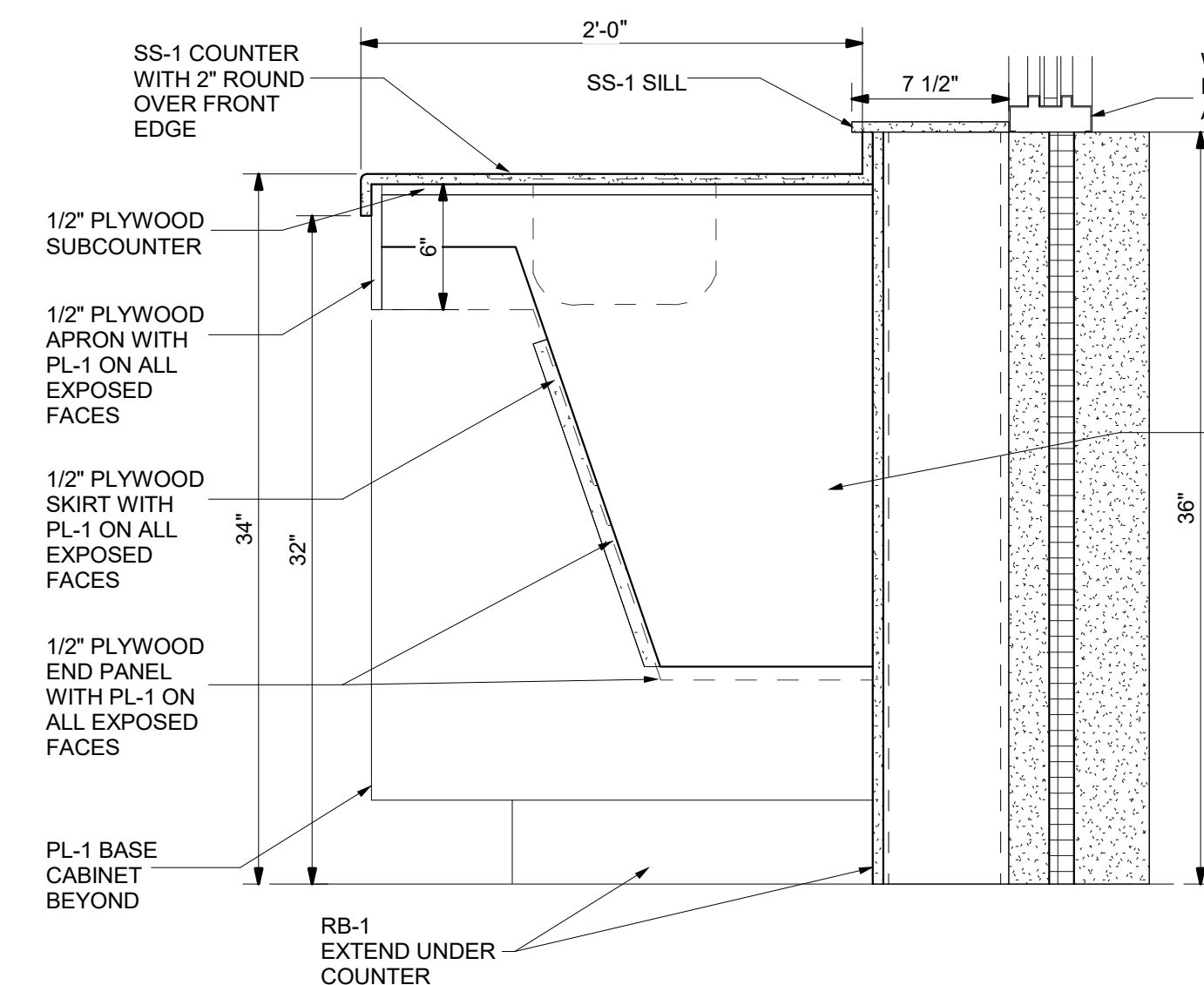
3A Millwork Section at Full Height Cabinet  
 1" = 1'-0"



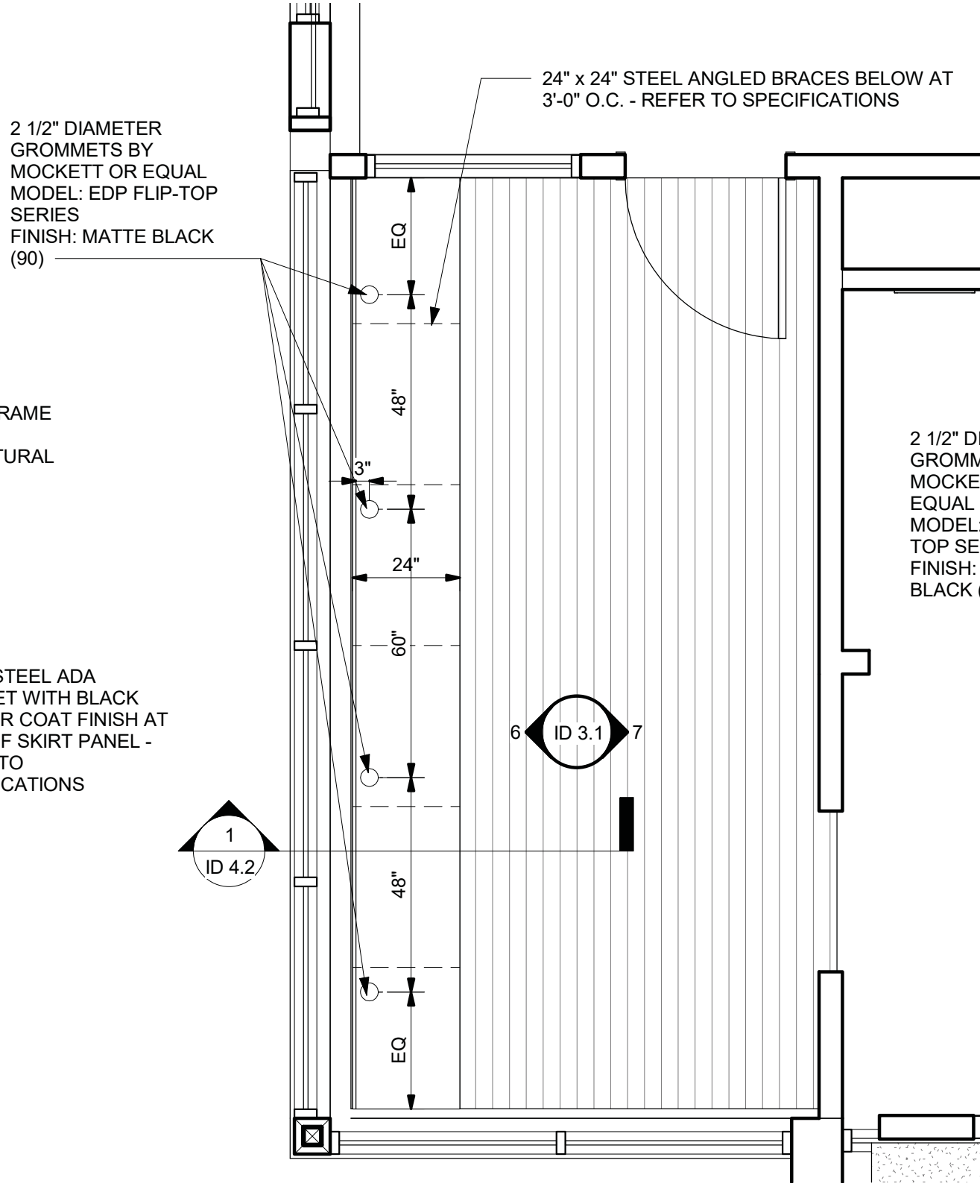
5A Millwork Section at Kitchen Island  
 1" = 1'-0"



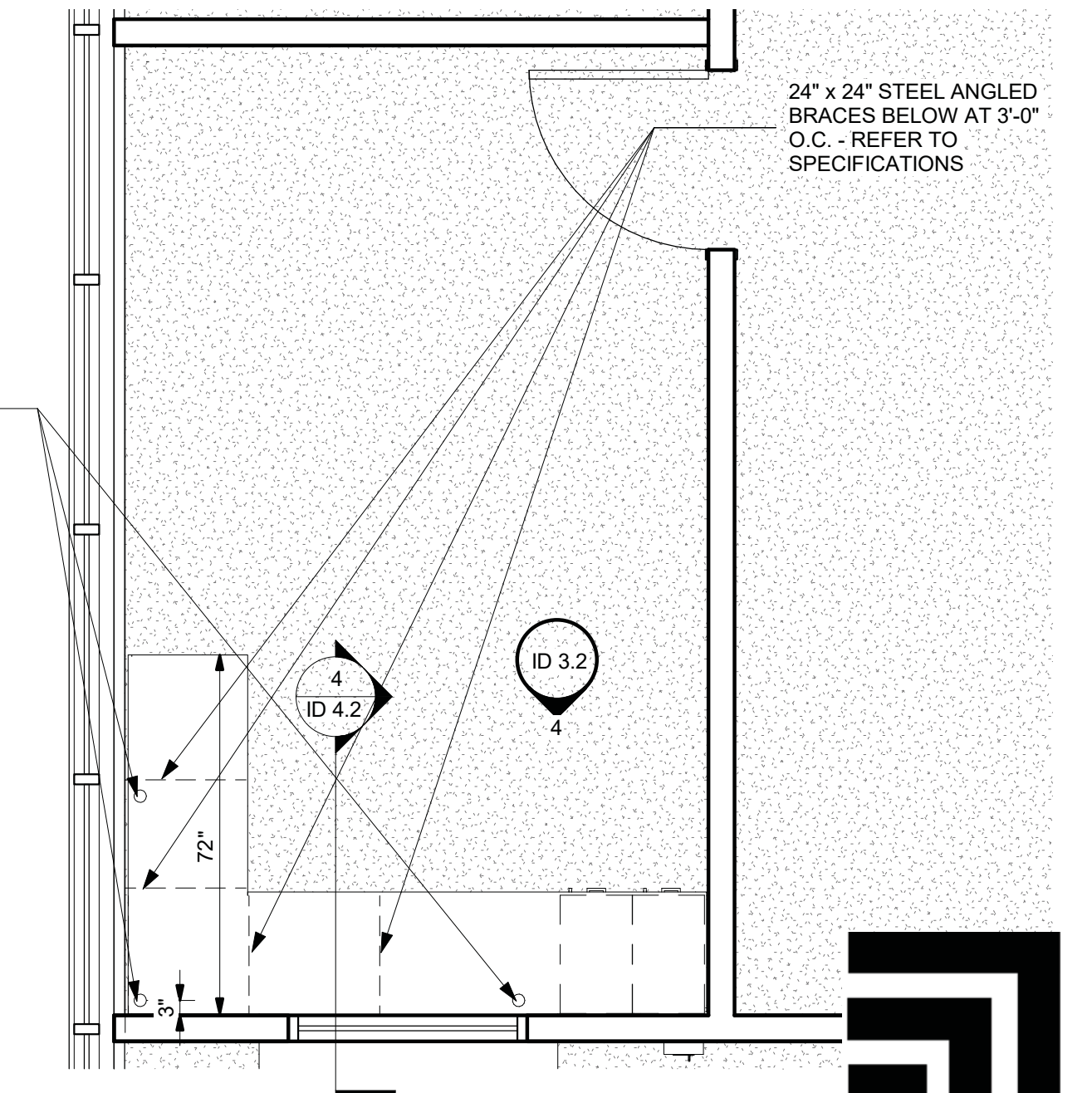
6A Millwork Section at Shower Room Sink  
 1 1/2" = 1'-0"



7A Millwork Section at Decon Room  
 1 1/2" = 1'-0"



8A Enlarged Plan - Watch Reports Room  
 3/8" = 1'-0"



9A Enlarged Plan - Patrol Office  
 3/8" = 1'-0"

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 400 Pike Boulevard, Lawrenceville, GA 30046  
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 Planning Inc.  
 planners • engineers • architects • surveyors

**GILLEM PUBLIC SAFETY FACILITY**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30237

INTERIOR FINISH MILLWORK

CHECKED PPI  
 DRAWN HIPD  
 DESIGN HIPD

RELEASE

SHEET TITLE

NO. 10/26/21

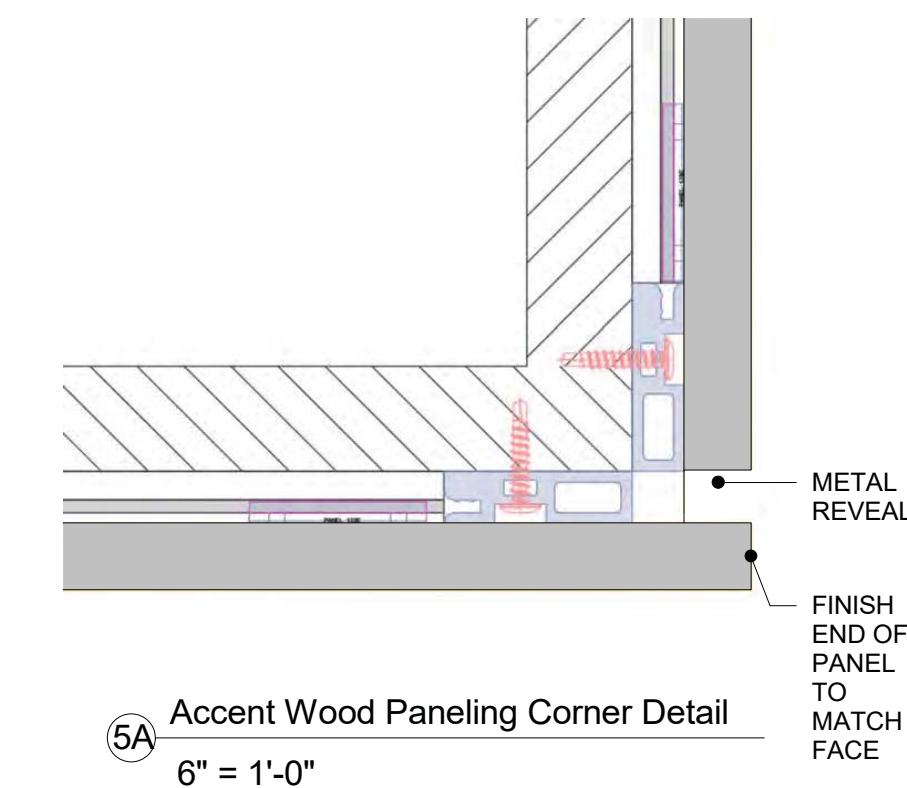
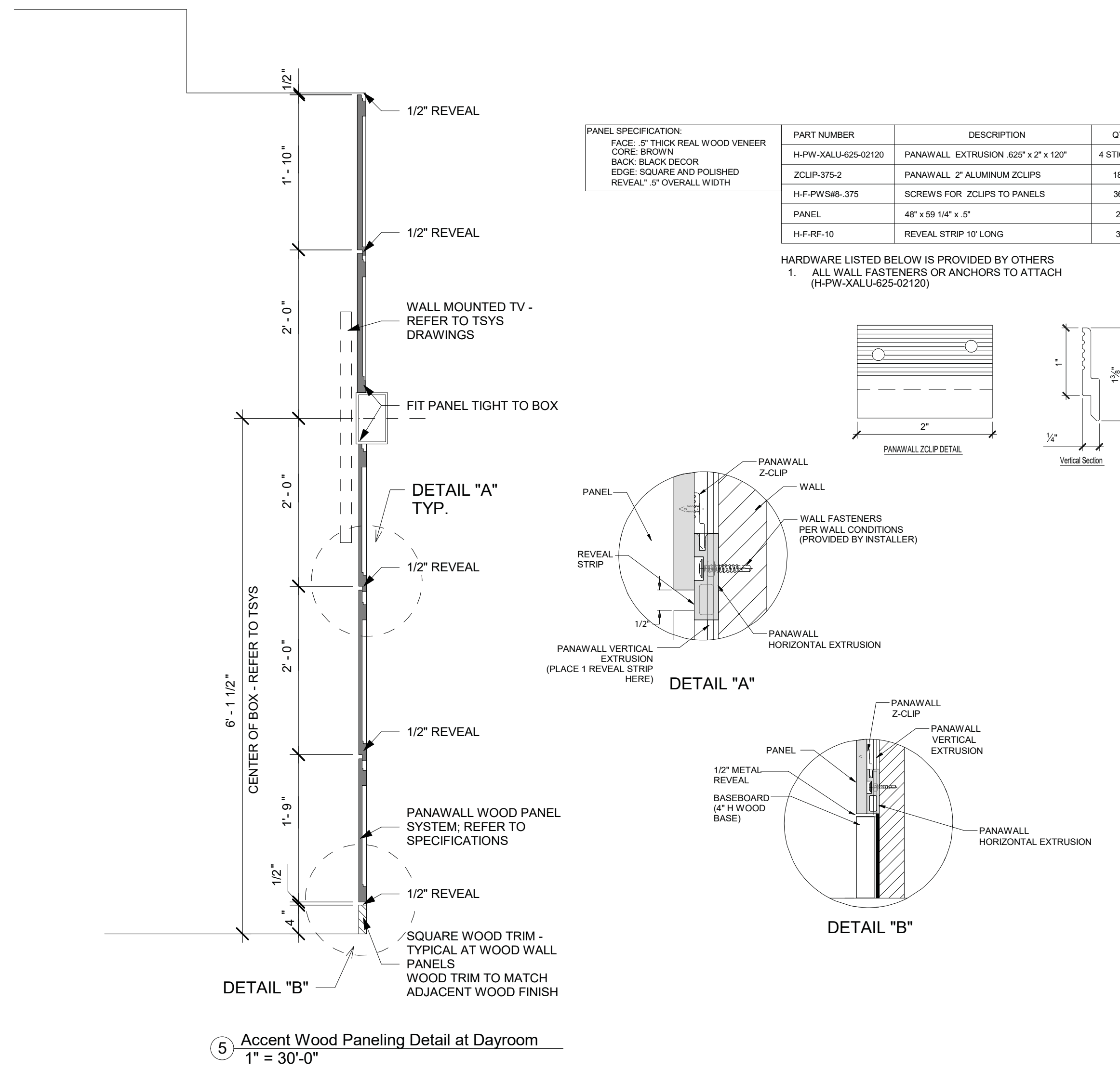
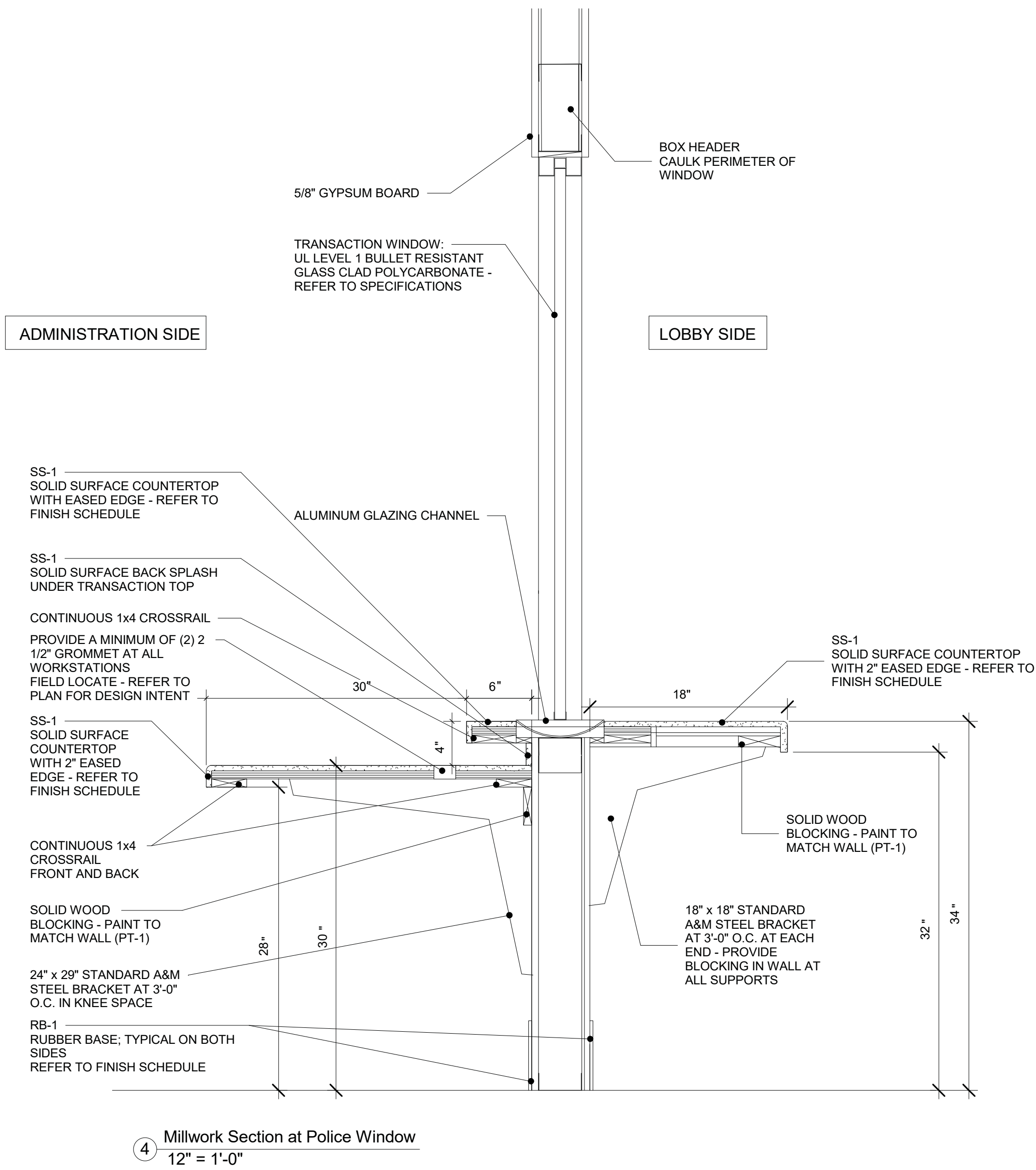
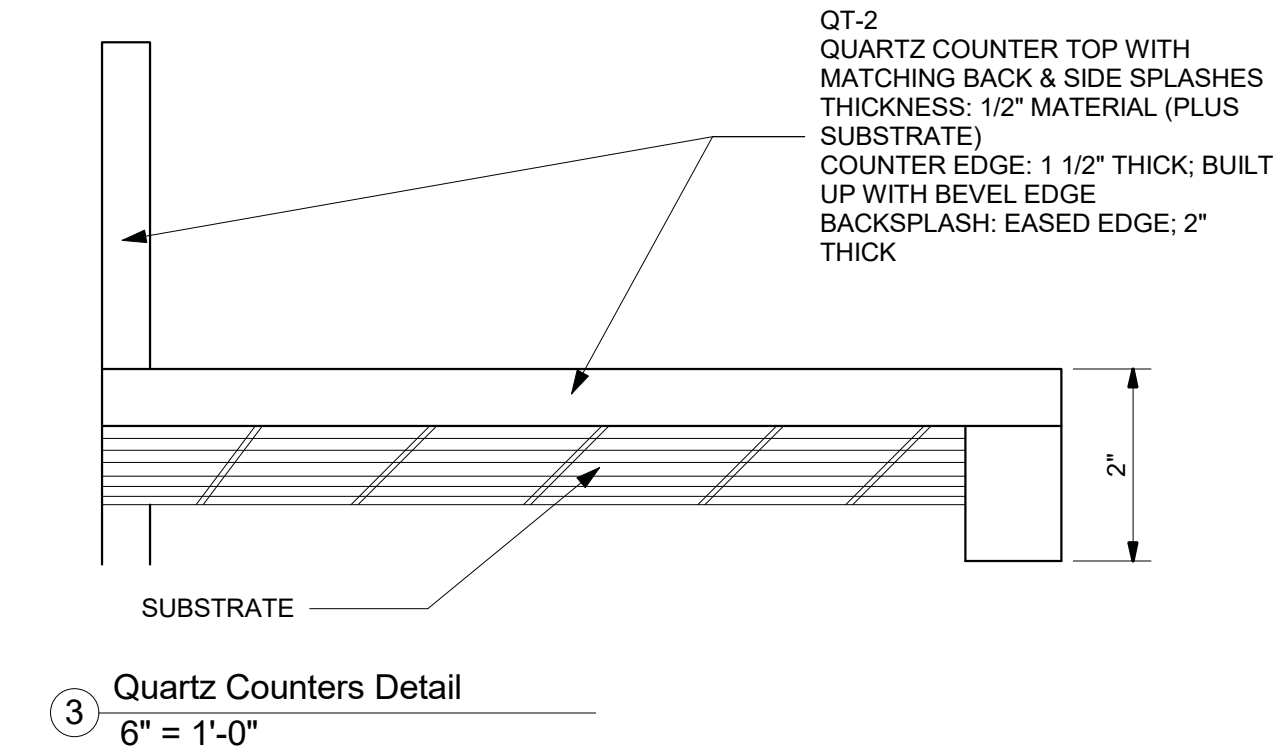
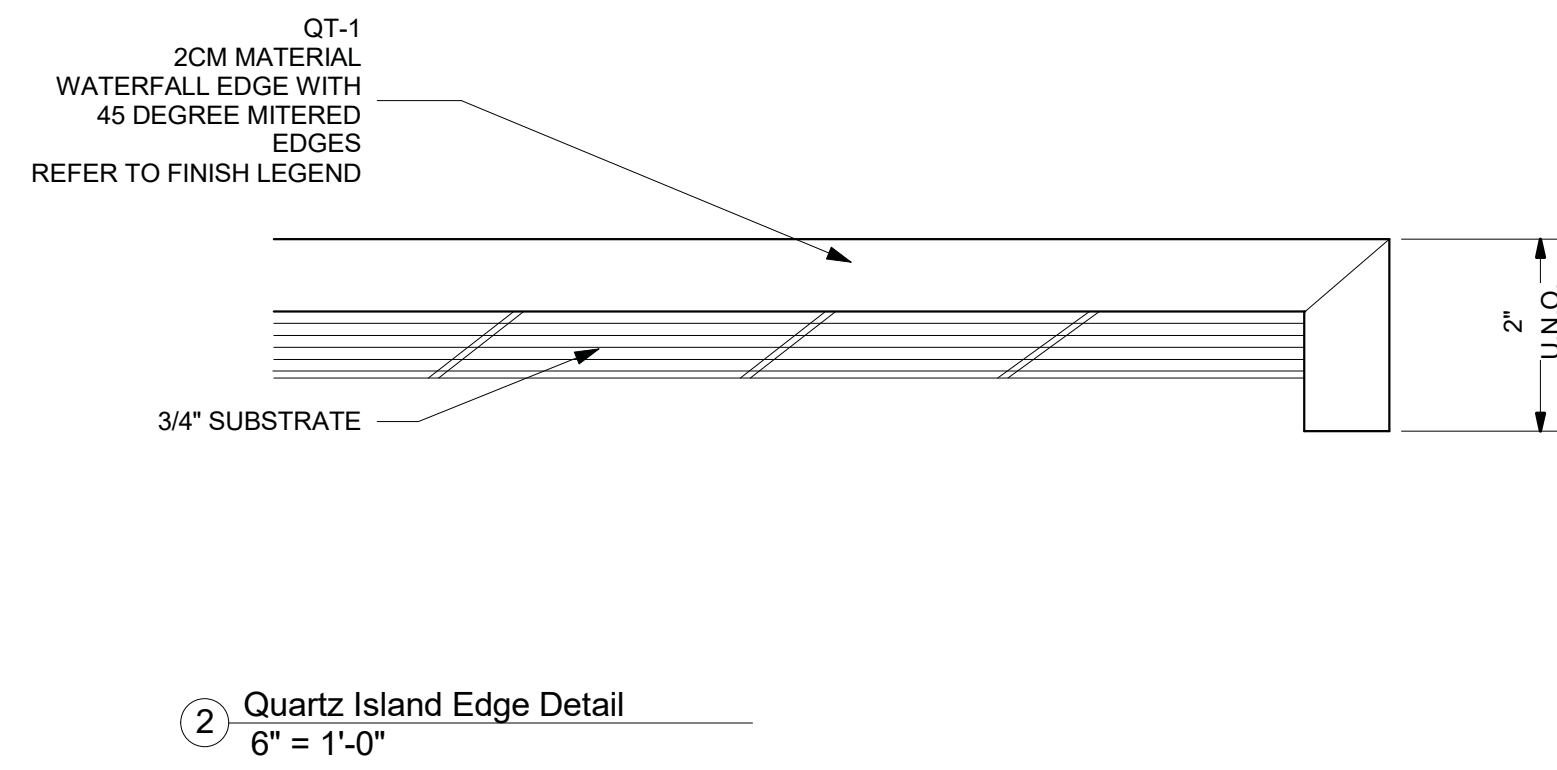
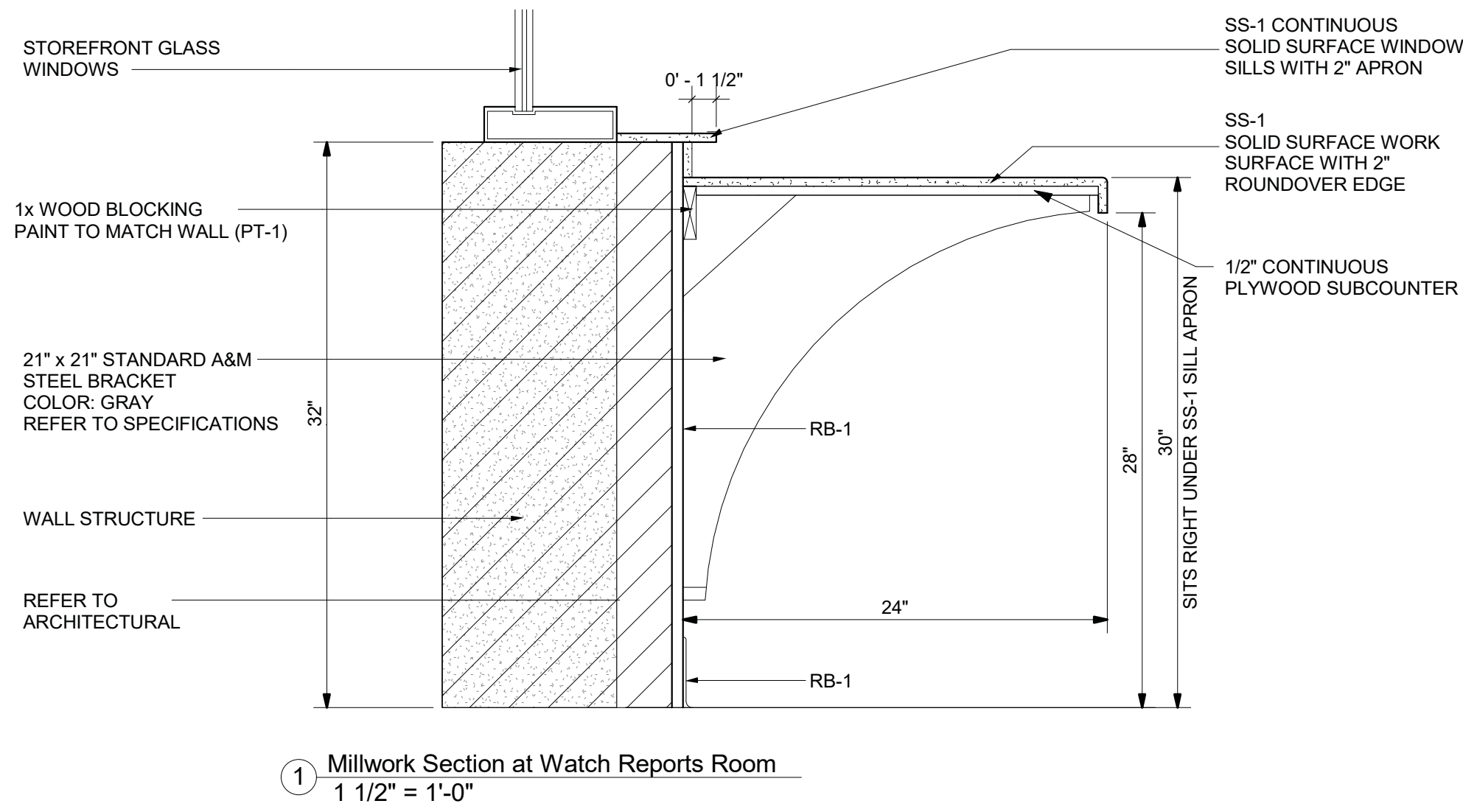
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10/26/2021 DATE  
 A21-006 PROJ. NUMBER  
 FILE NUMBER  
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PANEL SPECIFICATION:  
 FACE: 5" THICK REAL WOOD VENEER  
 CORE: BROWN  
 BACK: BLACK DECOR  
 EDGE: SQUARE AND POLISHED  
 REVEAL: 5" OVERALL WIDTH

PART NUMBER	DESCRIPTION	QTY
H-PW-XALU-625-02120	PANAWALL EXTRUSION: 625" x 2" x 120"	4 STICKS
ZCLIP-375-2	PANAWALL 2" ALUMINUM ZCLIPS	18
H-F-PWSB8-375	SCREWS FOR ZCLIPS TO PANELS	36
PANEL	48" x 59 1/4" x 5"	2
H-F-RE-10	REVEAL STRIP 10' LONG	3

HARDWARE LISTED BELOW IS PROVIDED BY OTHERS  
 1. ALL WALL FASTENERS OR ANCHORS TO ATTACH (H-PW-XALU-625-02120)

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planners • engineers • architects • surveyors

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**GILLEM PUBLIC**  
**SAFETY FACILITY**

Land Lots 211 and 212, District 12

**PROJECT**

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INTERIOR FINISH  
 MILLWORK  
 DETAILS

**SHEET TITLE**

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NO. DESCRIPTION  
 07/10/26/21 RELEASED FOR BID

**RELEASE**

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10/26/2021  
 DATE

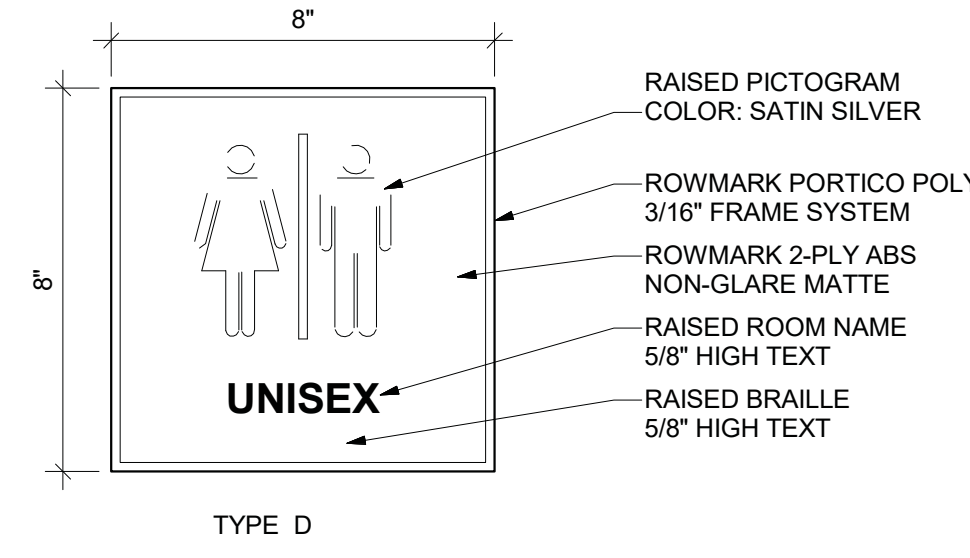
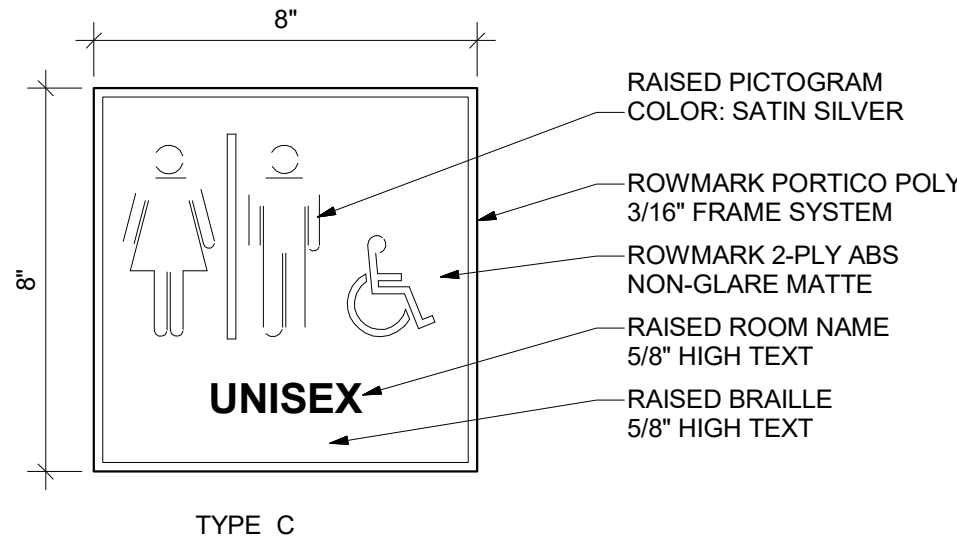
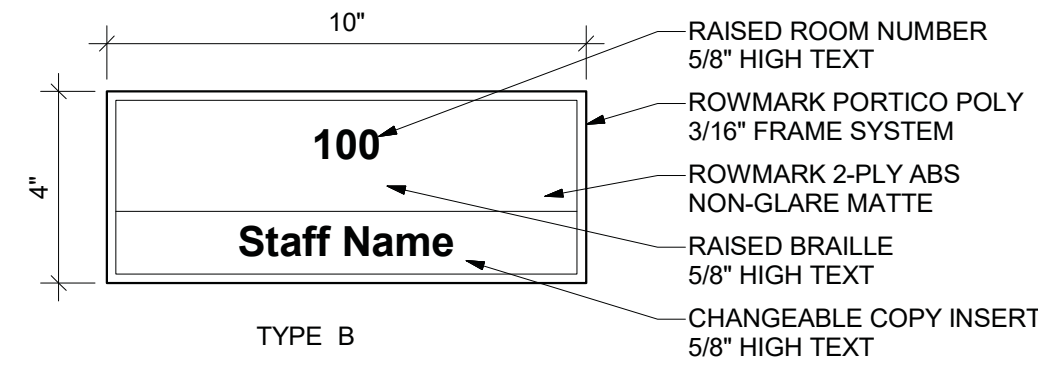
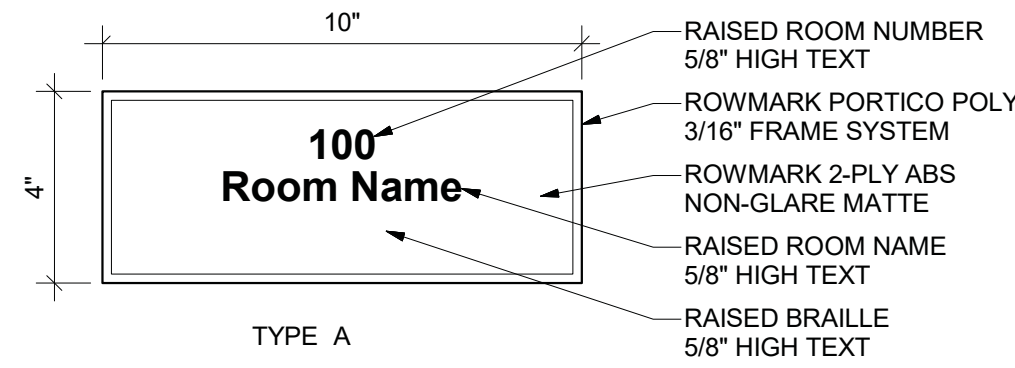
A21-006  
 PROJ. NUMBER

FILE NAME

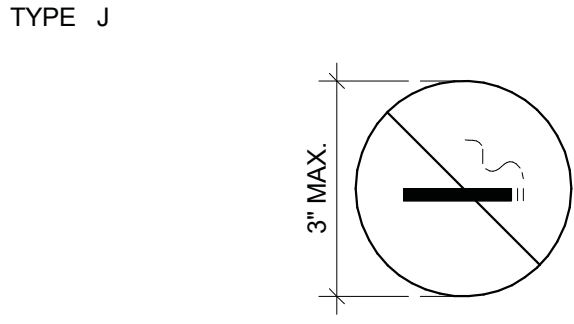
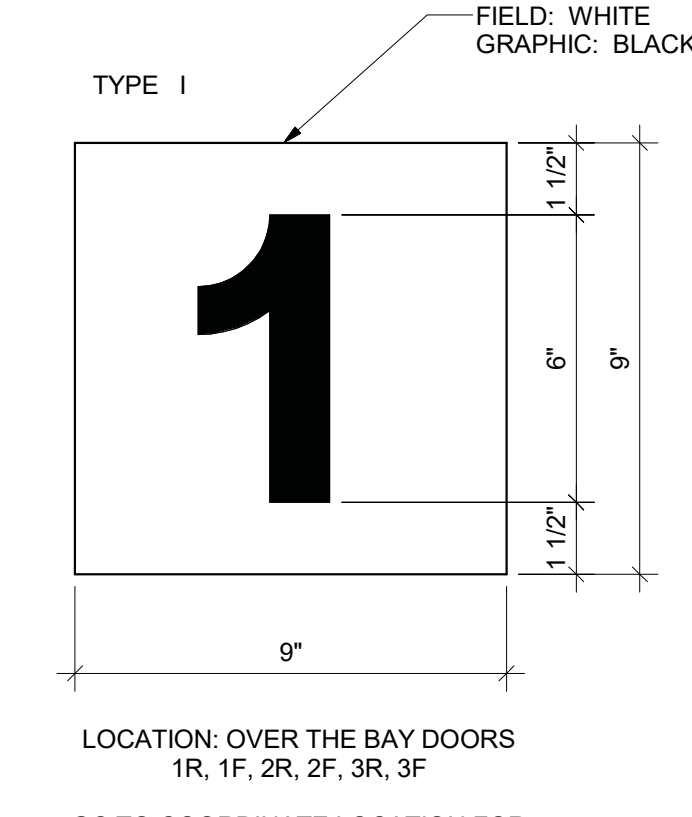
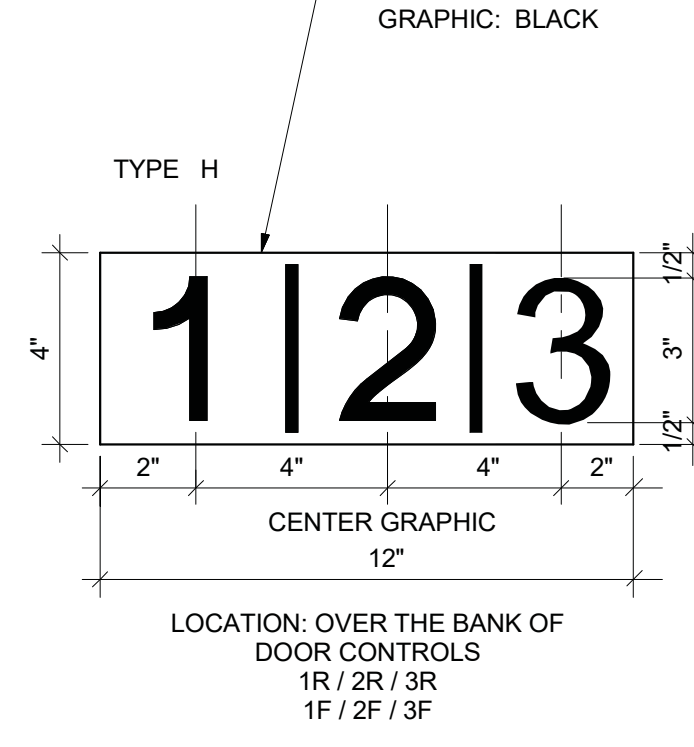
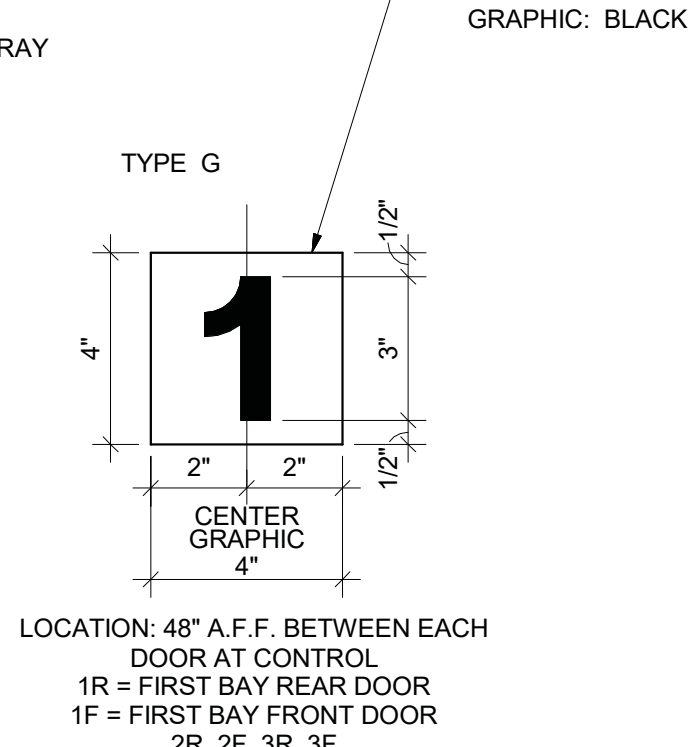
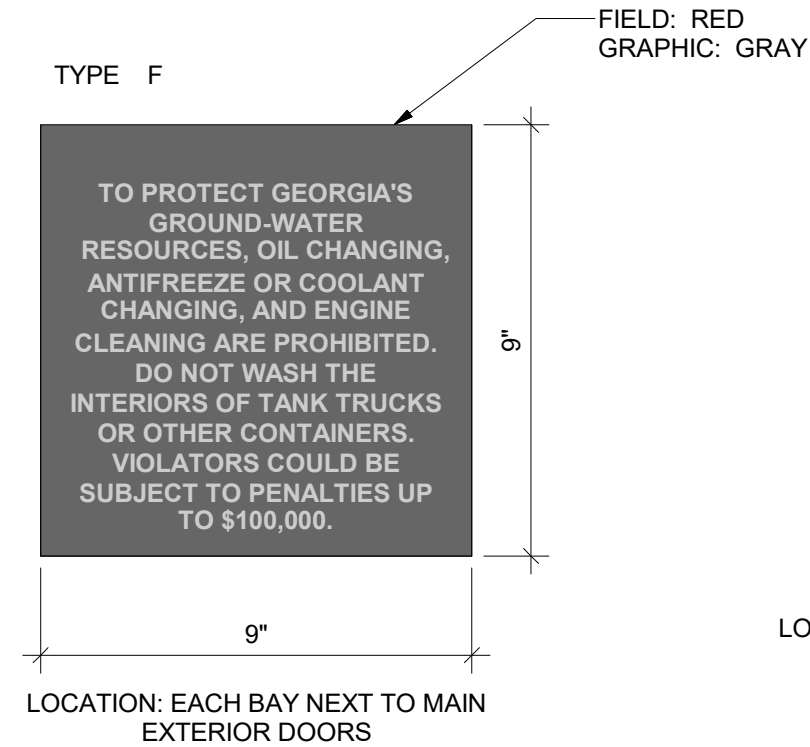
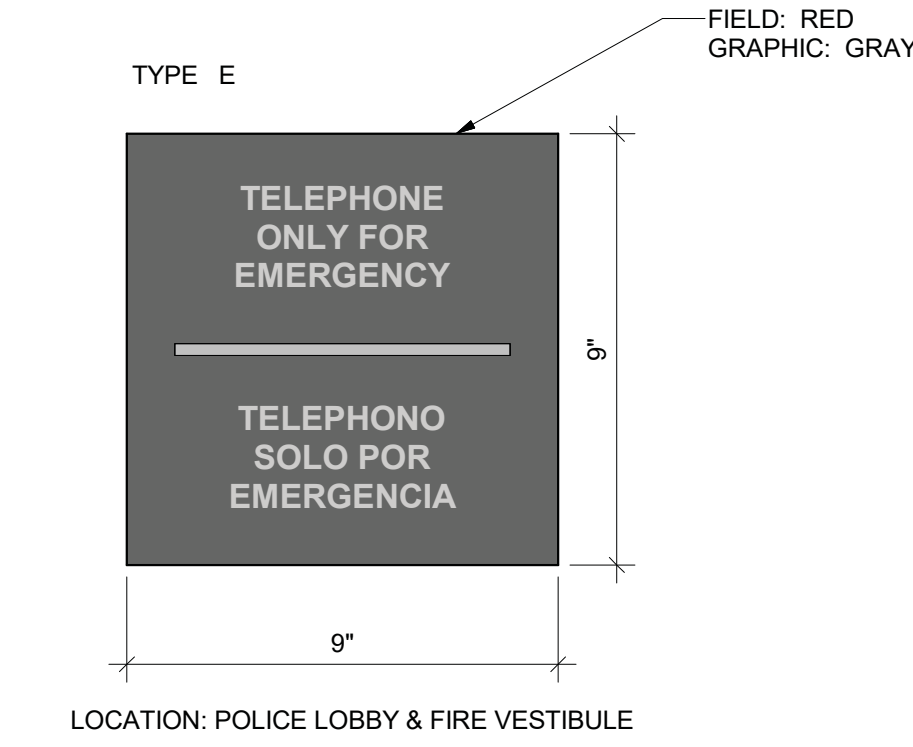
FILE NUMBER

**ID 4.2**





- ### Plaque Signage Notes
1. TYPEFACE: OPTIMA BOLD
  2. FACE FINISH: CLEAR MEDIA
  3. BACKER FINISH: DARK GREY
  4. FRAME: METAL; SATIN SILVER FINISH
  5. TEXT COLOR: DARK GREY

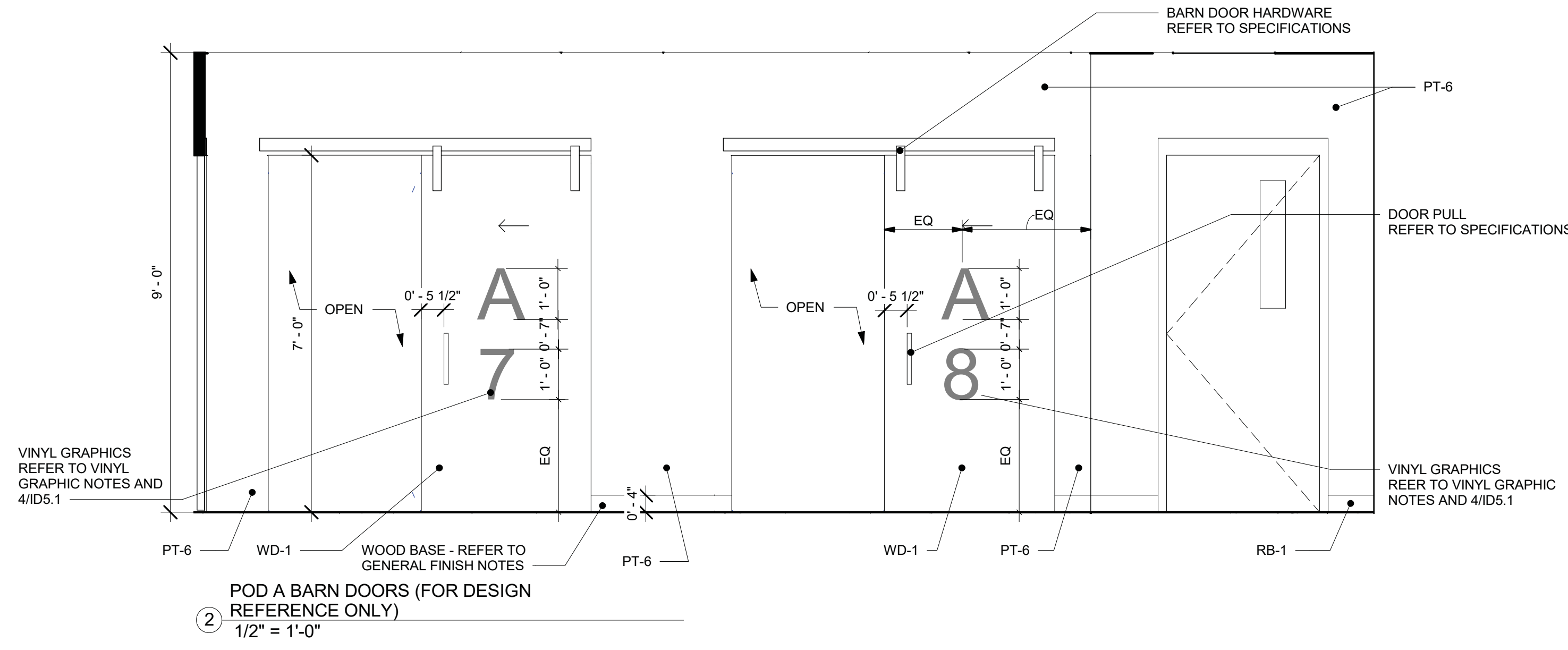


NOTE:  
 A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED WITHIN EACH BUILDING AND AT EACH ENTRANCE FOR COMPLIANCE WITH GWINNETT COUNTY CLEAN AIR ORDINANCE. ACCEPTABLE SIGNS SHALL DISPLAY EITHER "NO SMOKING" OR THE INTERNATIONAL "NO SMOKING" SYMBOL (CONSISTING OF A PICTORIAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT). SIGN SHALL BE A STICKER WITH A TRANSPARENT BACKGROUND LOCATED ON THE GLASS OF THE ENTRY DOORS.  
 ON SOLID DOORS THE SIGN SHALL HAVE NO BACKGROUND. THE DIAMETER OF THE CIRCLE SHALL NOT BE GREATER THAN 3 INCHES. LOCATE SIGNAGE IN BOTTOM CORNER OF UPPER GLASS PANEL ON LATCH SIDE OF DOOR.

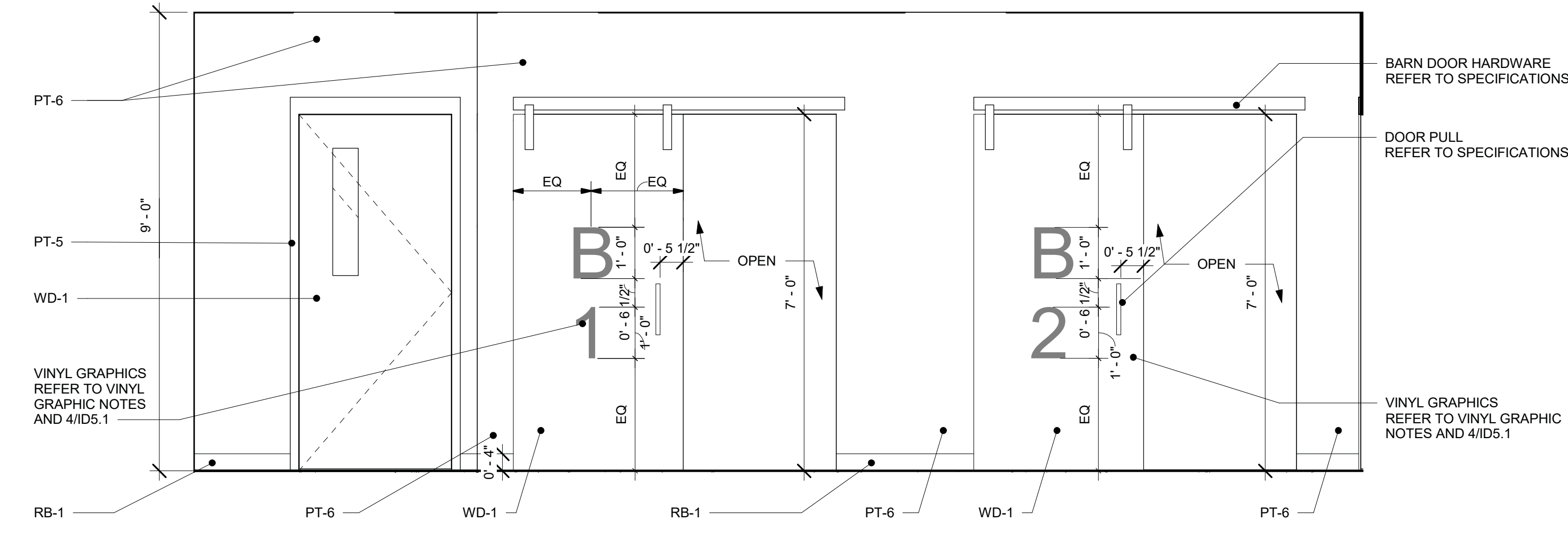
1 Signage Types  
 3" = 1' 0"



4 VINYL GRAPHICS LETTERING STYLE (FOR DESIGN INTENT ONLY)



2 POD A BARN DOORS (FOR DESIGN REFERENCE ONLY)  
 1/2" = 1'-0"



3 POD B BARN DOORS (FOR DESIGN REFERENCE ONLY)  
 1/2" = 1'-0"

### Vinyl Graphic Notes

- 1) CORRIDOR GRAPHICS AT POD A: LETTER "A" TO MATCH SHERWIN WILLIAMS SW9059 SILKEN PEACOCK - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS; LETTERS "POD" TO MATCH SHERWIN WILLIAMS SW0055 LIGHT FRENCH GRAY - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS.
- 2) CORRIDOR GRAPHICS AT POD B: LETTER "B" TO MATCH SHERWIN WILLIAMS SW7598 SIERRA REDWOOD - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS; LETTERS "POD" TO MATCH SHERWIN WILLIAMS SW0055 LIGHT FRENCH GRAY - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS.
- 3) BARN DOORS GRAPHICS AT POD A: LETTER "A" AND ROOM NUMBERS TO MATCH SHERWIN WILLIAMS SW9059 SILKEN PEACOCK - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS.
- 4) BARN DOORS GRAPHICS AT POD B: LETTER "B" AND ROOM NUMBERS TO MATCH SHERWIN WILLIAMS SW7598 SIERRA REDWOOD - CLEAR BACKGROUND AND BLEED ON BOTH SIDES OF LETTERING ON SELF ADHESIVE VINYL GRAPHICS.
- 5) ALL VINYL GRAPHICS ARE CUSTOM DESIGNS. MEASUREMENTS MUST BE VERIFIED IN FIELD BEFORE INSTALLATION.
- 6) ALL VINYL LETTERING TYPEFACE OPTIMA BOLD.
- 7) REFER TO ELEVATIONS 2/ID5.1 AND 3/ID5.1 FOR VINYL MEASUREMENTS ON BARN DOORS.
- 8) REFER TO ELEVATION 8/ID3.2 FOR VINYL MEASUREMENTS IN BUNK CORRIDOR.
- 9) REFER TO ELEVATION 5/ID3.2 FOR VINYL MEASUREMENTS AND COLOR AT FITNESS ROOM.

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**GILLEM PUBLIC SAFETY FACILITY**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30237  
 PROJECT

INTERIOR SIGNAGE NOTES & DETAILS	CHECKED	PPI
DESIGN	HIPD	
DRAWN	HIPD	

NO.	RELEASED FOR BID	
10/26/21		

10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

RELEASE  
 ID 5.1

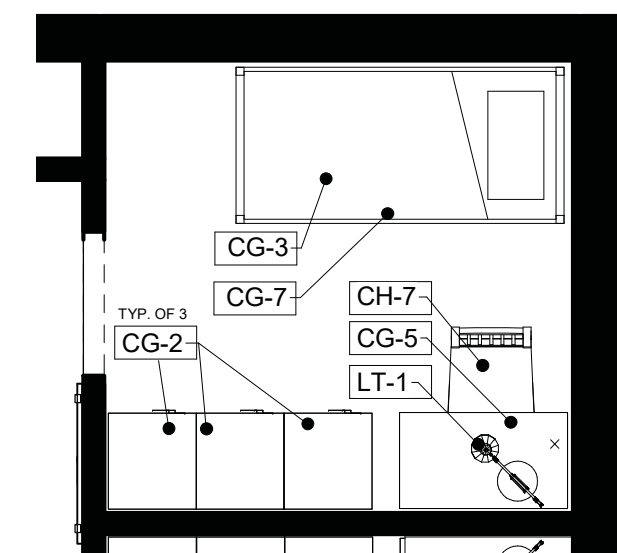




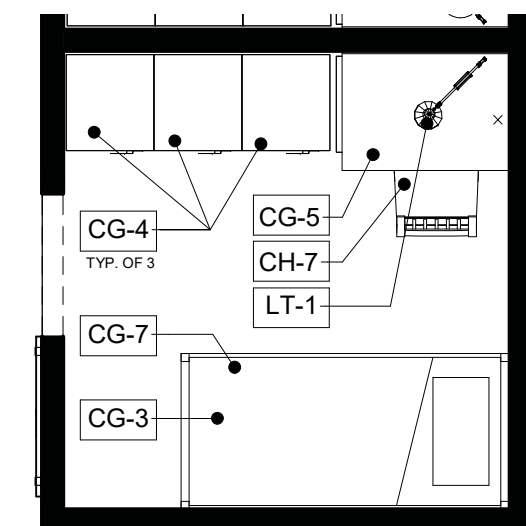
1 Furniture Plan  
 1/8" = 1'-0"

**SINGLE WARDROBE UNIT LOCATIONS & QUANTITIES:**

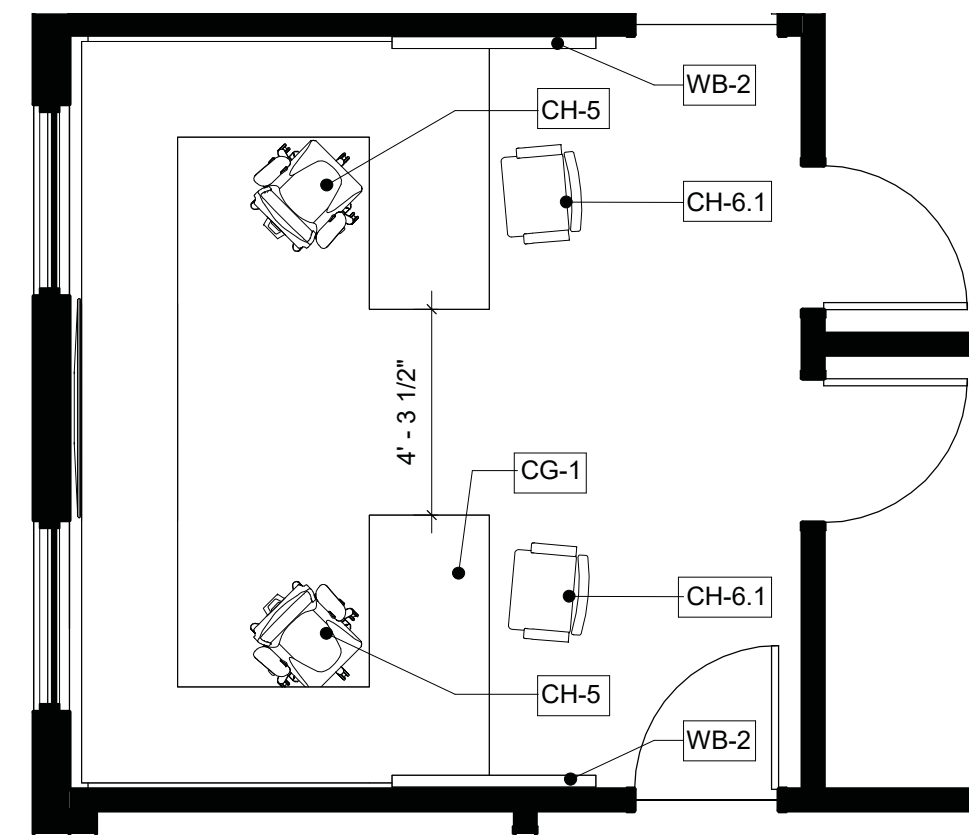
- 1) LEFT HAND DOOR SWINGS: ROOM NUMBERS - 113, 127, 130, 133, 136  
 ROOM QUANTITY: 5  
 WARDROBE QUANTITY: 15
- 2) RIGHT HAND DOOR SWING: ROOM NUMBERS - 112, 128, 131, 134, 137  
 ROOM QUANTITY: 5  
 WARDROBE QUANTITY: 15



2 Enlarged Furniture Plan - Bunk Room  
 (Single wardrobe unit - Right door swing)  
 1/4" = 1'-0"



3 Enlarged Furniture Plan - Bunk Room  
 (Single wardrobe unit - Left door swing)  
 1/4" = 1'-0"



4 Enlarged Furniture Plan - Company Office  
 1/4" = 1'-0"

**FF&E General Notes**

1. ALL FIXTURES, FURNISHINGS AND EQUIPMENT INDICATED ON THIS SHEET & EQUIPMENT SPECIFIED BY THE ARCHITECTS SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ALL EQUIPMENT THAT ARE SPECIFIED BY ARCHITECTS.
2. GENERAL CONTRACTOR SHALL CONFIRM AND COORDINATE FINAL LOCATION AND INSTALLATION OF ALL FF&E ITEMS WITH THE OWNER.
3. REFER TO SPECIFICATIONS FOR MANUFACTURERS AND MODEL NUMBERS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL LED LAMPS AT ALL ACCESSORY LIGHT FIXTURES INCLUDING TABLETOP LAMPS. LED LAMPS SHALL BE 2700K.
5. ALL GROMMETS AT WORK SURFACES TO BE: 2 1/2" DIAMETER GROMMET BY MCKETT OR EQUAL; MODEL: EDP FLIP-TOP SERIES; FINISH: MATTE BLACK (90)

**Fixtures, Furnishings and Equipment Plan Keynotes**

- CG-1 MODULAR OFFICE DESK
- CG-1.1 MODULAR OFFICE DESK
- CG-2 SINGLE WARDROBE UNIT - RIGHT HAND DOOR SWING
- CG-3 XL TWIN BED FRAME WITH SPRINGS BASE AND MATTRESS
- CG-4 SINGLE WARDROBE UNIT - LEFT HAND DOOR SWING
- CG-5 DESK
- CG-6 DESK
- CG-7 UNDERBED STORAGE UNIT
- CH-1 BENCH
- CH-2 RECLINER
- CH-3 DINING SIDE CHAIR
- CH-4 SIDE CHAIR
- CH-5 TASK CHAIR
- CH-6 GUEST CHAIR
- CH-6.1 GUEST CHAIR
- CH-7 SIDE CHAIR IN POD A & OFFICER BUNK 1 - ORANGE PLASTIC SHELL & METAL LEGS
- CH-7.1 SIDE CHAIR IN POD B & OFFICER BUNK 2 - BLUE PLASTIC SHELL & METAL LEGS
- CH-8 CONFERENCE CHAIR
- CH-9 OUTDOOR PICNIC TABLE
- CH-10 OUTDOOR BENCH
- CH-11 STOOL
- LT-1 DESK TOP TASK LIGHT; REFER TO SPECIFICATIONS
- MS-1 16" WIRE SHELVES AT 48" AND 72" A.F.F.; REFER TO SPECIFICATIONS
- MS-2 16" WIRE SHELVES AT 24", 48" AND 72" A.F.F. - REFER TO SPECIFICATIONS
- MS-3 HEAVY DUTY METAL STORAGE SHELVING - REFER TO SPECIFICATIONS
- MS-4 OUTDOOR TRASH RECEPTACLE
- TB-1 DINING TABLE
- TB-2 TABLE
- TB-2.1 TABLE WITH POWER
- TB-2.2 TABLE WITHOUT POWER
- TB-3 STORAGE CABINET
- WB-2 WHITE BOARD WITH MARKER TRAY - REFER TO SPECIFICATIONS
- WT-1 POWER MOTORIZED ROLLER SHADES
- WT-2 MANUAL ROLLER SHADES

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 2090 Anvil Block Rd.  
 Forest Park, GA 30237

FF&E PLAN.  
 NOTES + DETAILS

NO.	RELEASED FOR BID	DESIGN	DRAWN	CHECKED	PPI
10/26/21		HIPD	HIPD	PPI	

10/26/2021  
 DATE  
 A21-006  
 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER

ID 6.1

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PROJECT

SHEET TITLE

RELEASE



DESIGN:  
 BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 (IBC) W/ GEORGIA AMENDMENTS  
 RISK CATEGORY: IV  
 WIND:  
 V<sub>1-17</sub> = 116 MPH (3-SECOND GUST)  
 V<sub>30-3</sub> = 92 MPH (NOMINAL - ASD)  
 INTERNAL PRESSURE COEFFICIENT ±0.18 ENCLOSED  
 ±0.55 PARTIALLY ENCLOSED (APPARATUS BAY)  
 EXPOSURE CATEGORY C  
 COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2018 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.  
 MIN DESIGN PRESSURE = 32.6 PSF (WALLS, 100 SQ FT, NON-END ZONE)  
 LATERAL LOAD RESISTING SYSTEM FOR BUILDING IS BY SPECIALTY ENGINEER  
 SNOW:  
 GROUND SNOW LOAD = 5 PSF  
 I<sub>s</sub> = 1.2  
 LOW ROOF FLAT ROOF SNOW LOAD = 11 PSF (INCLUDE 5 PSF RAIN ON SNOW SURCHARGE)  
 H-ROOF SNOW LOAD = 6 PSF  
 SNOW EXPOSURE FACTOR C<sub>e</sub> = 1.0 SNOW THERMAL FACTOR C<sub>t</sub> = 1.0  
 SEISMIC:  
 I<sub>e</sub> = 1.5 I<sub>p</sub> = 1.5  
 S<sub>is</sub> = 0.183 S<sub>1i</sub> = 0.133  
 SITE CLASS = D  
 SEISMIC DESIGN CATEGORY = C  
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE  
 LATERAL LOAD RESISTING SYSTEM FOR BUILDING IS BY SPECIALTY ENGINEER  
 DESIGN CRITERIA FOR PRECAST STRUCTURE:

LOAD	60.0 PSF
PRECAST CONCRETE ROOF DOUBLE TEES	60.0 PSF
MISC.	10.0 PSF
TOTAL:	70.0 PSF
LIVE LOAD:	20.0 PSF

SHEET NUMBER	SHEET NAME
S1.0	GENERAL NOTES
S2.1	FOUNDATION PLAN
S2.2	ROOF PLAN
S3.1	SECTIONS AND DETAILS
S3.2	SECTIONS AND DETAILS
S3.3	SECTIONS AND DETAILS
S3.4	SECTIONS AND DETAILS
S3.5	SECTIONS AND DETAILS
S3.6	SECTIONS AND DETAILS
S4.1	TYPICAL FOUNDATION DETAILS

**MISCELLANEOUS:**

- THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFIS), UNLESS OTHERWISE INDICATED.
- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES IN THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
- THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
- DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS. SEE ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD. REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- WHERE A SECTION OR DETAIL IS OUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS OR ENGINEERS PRESENCE AT THE JOBSITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.
- CONSULT ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

- PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

**SUBMITTALS:**

- STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
- CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES TO ARCHITECT AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.
- ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:  
 A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.  
 B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC'S REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
- REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) WINDOW AND CANOPY SYSTEMS. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
- ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
- REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT PERMITTED.

**FOUNDATIONS:**

- SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 2.5 KSF FOR INDIVIDUAL COLUMN FOOTINGS AND CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE DEAD AND LIVE LOADS.
- THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE CIVIL DRAWINGS, PROJECT SPECIFICATIONS, AND THE REPORT OF GEOTECHNICAL EXPLORATION, FOREST PARK GILLEM PUBLIC SAFETY FACILITY, HOOD AVENUE, GOREST PARK, GA 30294, PERFORMED BY 2MNEXT, 2MNEXT PROJECT NUMBER 21G3006 AND DATED 02 JULY, 2021. A QUALIFIED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF GEORGIA, SHOULD VERIFY ALL THE ASSUMPTIONS IN THE AFOREMENTIONED REPORT AND NOTIFY THE ENGINEER OF AN VARIATIONS OR DISCREPANCIES WITH ACTUAL, CURRENT FIELD CONDITIONS.
- THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).
- FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
- IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THIS SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THIS SITE AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE COMPACTED TO AT LEAST 96% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). THE UPPER 12" OF FILL BENEATH STRUCTURAL AREAS SHOULD BE COMPACTED TO 100% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY TO ENSURE COMPLIANCE.
- FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
- ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW FINAL GRADE FOR FROST PROTECTION.
- NO EXCAVATION SHALL BE CLOSER THAN A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- BACKFILL AGAINST WALLS SHALL BE PLACED IN 8" LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM SUBSLOPES FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM SUFFICIENT BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PROCESS. RETAINING WALLS ARE NOT DESIGNED TO CANTILEVER AT ANY TIME UNLESS EXPLICITLY NOTED ON DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL CONDITIONS PER CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
- THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

**CONCRETE:**

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14 AND ACI 301-16.
- CEMENT USED SHALL BE TYPE I OR II CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS:

	STRENGTH (PSI)	DENSITY (PCF)
FOOTINGS	3000	145 - 150
INTERIOR 4" AND 6" SLAB ON GRADE	3000	145 - 150
8" SLAB ON GRADE	4000 UNO	145 - 150
GENERATOR PAD	4000	145 - 150

- AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:  
 ALL ELEMENTS, UNO 1" COARSE AGGREGATE (ASTM C-330)

- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRAIL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
- MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:  
 A. #11 BARS AND SMALLER: 3/4 INCHES  
 B. FORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES  
 C. UNIFORM SURFACES EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER: 1 1/2 INCHES  
 #5 BARS AND SMALLER: 2 INCHES  
 D. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS AND COLUMNS: 1 1/2 INCHES  
 SLABS, WALLS, AND JOISTS: 3/4 INCHES
- SLAB-ON-GRADE SHALL BE SAW CUT NO MORE THAN 12 HOURS AFTER CONCRETE HAS BEEN FINISHED. CONTRACTOR TO SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE ("SOFT-CUT" INTERNATIONAL OR SIM.)
- PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PORTIONINGS REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-14.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
- PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:  
 A. NO MATERIAL HARMFUL TO CONCRETE (SUCH AS, BUT NOT LIMITED TO, ALUMINUM) IS PERMITTED.  
 B. NO EMBEDMENT OR PENETRATION WHICH IMPAIRS THE STRUCTURAL STRENGTH OR INTEGRITY IS PERMITTED.  
 C. CONDUITS AND PIPES SHALL NOT HAVE A DIAMETER THAT EXCEEDS 1/3 THE OVERALL THICKNESS OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE EMBEDDED.  
 D. MINIMUM CENTER TO CENTER SPACING SHALL NOT BE CLOSER THAN 3 DIAMETERS OR WIDTHS.  
 E. PLACEMENT SHALL OCCUR ABOVE BOTTOM LAYER OF REINFORCEMENT AND BELOW TOP LAYER OF REINFORCEMENT AND SHALL NOT CAUSE REINFORCEMENT TO BE CUT, BENT OR DISPLACED IN ANY MANNER.  
 F. PLACEMENT SHALL MAINTAIN A MINIMUM CLEARANCE FROM REINFORCEMENT OF 3 REINFORCING BAR DIAMETERS OR 3/4" FROM WELDED WIRE FABRIC REINFORCEMENT.  
 G. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW SLAB ON GRADE.
- UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN SLABS ON GRADE NOT TO EXCEED 15 FEET ON CENTER IN EACH DIRECTION, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.
- FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
- NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
- REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60.
- REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITION.
- ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF "b" TYPE (ACI 318-14, SECTION 25.5) AT SPLICES UNLESS NOTED OTHERWISE.
- PROVIDE REINFORCING CHAIRS FOR ALL SLAB-ON-GRADE REINFORCING.
- SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (27TH EDITION).
- WHERE WELDED WIRE FABRIC REINFORCEMENT IS SPECIFIED IN SLABS ON GRADE PLACEMENT SHALL BE 1" BELOW TOP OF SLAB @ INTERIOR CONDITIONS AND 1 1/2" BELOW TOP OF SLAB AT EXTERIOR CONDITIONS. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.
- SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL AND/OR SPLICES ARE PERMITTED ONLY WHERE SHOWN ON DRAWINGS. WHERE WELDING IS PERMITTED IT SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL.
- BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

**STRUCTURAL STEEL:**

**DESIGN CODE:**  
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - 15TH EDITION (AISC)

- STEEL SHALL CONFORM TO THE FOLLOWING GRADES:  
 STRUCTURAL W SHAPES: ASTM A992 (Fy=50ksi)  
 ALL CHANNELS, ANGLES, PLATES, ETC. (UNO) ASTM A36 (Fy=36ksi)  
 STRUCTURAL TUBES: ASTM A500 GRADE C (Fy=50ksi)  
 STEEL PIPE: ASTM A501 (Fy=36ksi)  
 ANCHOR RODS: ASTM F1554 (Fy=56ksi)  
 HIGH STRENGTH BOLTS: ASTM A325  
 HEX NUTS - GRADE A WELDING ELECTRODES: E70XX HARDENED STEEL WASHERS - TYPE I ASTM F436
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (2016) EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- THE STEEL STRUCTURE IS A NON-Self-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS AND METAL STUD SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATOR'S CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 15TH EDITION "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS".
- SPLICES OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

**PRECAST CONCRETE:**

- DESIGN OF PRECAST ELEMENTS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS OF PRECAST ELEMENTS AND THEIR CONNECTIONS SEALED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA. REVIEW SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS, THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS, AND CONTRACT DOCUMENTS DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE PRECAST AND PRECAST CONNECTIONS NOT SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONNECTIONS:  
 2.1 ONLY CONNECTION CONCEPTS ARE SHOWN IN SECTIONS AND DETAILS OF THE CONTRACT DOCUMENTS. THE DESIGN AND FREQUENCY OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE PRECAST SUPPLIER AND THE PRECAST DESIGN ENGINEER IN COORDINATION OF THE PANEL DESIGNER ITSELF. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE ARCHITECTURAL, PRECAST PANEL ATTACHMENT LOCATIONS TO THE STRUCTURE.  
 2.2 SUBMIT REACTIONS OF ALL PRECAST ELEMENTS SUPPORTED BY STRUCTURAL ELEMENTS SHOWN ON THE DRAWINGS.
- ALL PRECAST CONCRETE WALL PANEL UNITS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ACI 318. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- ALL PRECAST CONCRETE UNITS SHALL BE PRODUCED IN ACCORDANCE WITH MNL-116 MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION FOR PRECAST/PRESTRESSED CONCRETE PRODUCTS, PUBLISHED BY THE PRESTRESSED CONCRETE INSTITUTE.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FINISH OF PRECAST WALL PANELS, REVEALS, TEXTURES, ETC.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE WALL PANEL OPENINGS, DOOR LOCATIONS, AND PANEL HEIGHTS.
- REFER TO CIVIL DRAWINGS FOR FINAL GRADE ELEVATIONS AND TO VERIFY FOOTING ELEVATIONS
- COORDINATE ALL EMBEDS, BEARING POINTS, SEAT LOCATIONS, OPENINGS, ETC WITH STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND CONTRACTORS PROVIDE NECESSARY EMBEDS REQUIRED FOR ANY TEMPORARY SHORING REQUIRED DURING ERECTION.
- PRECAST PANELS SHALL BE DETAILED FOR A MINIMUM RESPONSE MODIFICATION OF 4 (R=4)
- PRECAST PANELS ARE TO BE DESIGNED FOR THE APPLICABLE COMPONENTS AND CLADDING WIND PRESSURES ASSOCIATED WITH IBC 2018 AND ASCE 7-16.

**COLD FORM METAL FRAMING (METAL STUDS):**

- METAL STUDS SHALL BE FABRICATED AND ERECTED PER 2016 AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS AND EQUAL OR THICKER GAUGE THAN STUDS. TRACKS SHALL BE CONNECTED TO SUPPORTS AT 16" OC MAX.
- ALL 43 MIL MATERIAL (AND LESS) SHALL HAVE A MINIMUM YIELD OF 33,000 PSI (UNLESS NOTED OTHERWISE). ALL 54 MIL MATERIAL (AND GREATER) SHALL HAVE A MINIMUM YIELD OF 50,000 PSI (UNLESS NOTED OTHERWISE).
- THE CONTRACTOR SHALL SUBMIT THE FOLLOWING:  
 A. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN MANUFACTURER'S PRODUCT DATA.  
 B. PRODUCT CATALOG WITH SECTION AND MATERIAL PROPERTIES OF ALL MATERIAL.
- ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED, GALVANIZED COATING MEETING ASTM A653 G60 AND G55, U.N.O.

- NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY WITH TWO 5/8" DIAMETER ANCHOR RODS WITH 1'-0" EMBEDMENT INTO GROUT FILLED MASONRY.
- WHERE BEAMS INTERSECT AT THE TERMINATING ELEVATION OF A COLUMN, THE BEAM WITH THE GREATEST REACTION SHALL BEAR ON TOP OF THE COLUMN UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BEAMS INTERSECT AT THE INTERMEDIATE ELEVATION OF A COLUMN, THE FRAMING BEAMS SHALL BE CONNECTED TO THE COLUMNS WITH A WT CONNECTION. FIN PLATE CONNECTIONS ARE NOT PERMITTED.
- CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING:  
 A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE DRAWINGS. (TABLE 3-6, AISC 15TH EDITION)  
 B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.  
 C. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.  
 D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4", MAX. DIA. 1 1/8". PROVIDE AT LEAST 2 BOLTS PER CORN. TIGHTENED "SNUG TIGHT".  
 E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS OF SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED.  
 F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS.
- TENSILE CONNECTIONS SHALL BE DESIGNED FOR A FORCE RESULTING FROM MULTIPLYING THE GROSS AREA BY 20 KSI.
- FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.
- STRUCTURAL STEEL CONTRACTOR TO PROVIDE DECK SUPPORT ANGLES AS REQ'D (1/3x1/4 MINIMUM UNO). THE CONTINUOUS ANGLE AT THE ROOF PERIMETER SHALL BE SPLICED SUCH THAT THE FULL TENSION FORCE THAT CAN BE DEVELOPED BY THE ANGLE WILL BE TRANSFERRED THROUGHOUT THE SPLICE.
- UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELDS SHALL NOT BE SMALLER THAN 3/16". ALL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
- THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE STIFFENERS FINISHED TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS. ON ALL MEMBERS FRAMING OVER COLUMNS, AT BEAM COLUMN JOINTS (AS REQUIRED BY THE AISC SPECIFICATIONS) AND WHERE SHOWN ON THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF LOOSE LINTELS.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.
- ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.
- ALL EXTERIOR EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.

**METAL ROOF DECK:**

- METAL ROOF DECK SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE SDI RD-2017 STANDARD FOR STEEL ROOF DECK.
- THE METAL DECK WORK SHALL CONSIST OF FURNISHING EVERYTHING (LABOR, MATERIALS, ACCESSORIES, EQUIPMENT, ETC.) NECESSARY AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF ALL METAL DECK WORK AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- SUBMIT PLACEMENT AND DETAILED ("SHOP") DRAWINGS FOR REVIEW. NO METAL DECK SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- METAL DECK SHALL CONFORM TO STEEL DECK INSTITUTE'S CURRENT STANDARDS.
- METAL DECK SHALL BE OF THE CONFIGURATION, DEPTH AND MINIMUM GAGE AS SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS AS A MINIMUM. SEE PLAN NOTES.
- DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.
- WHERE POSSIBLE, METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS. TWO SPAN DECK SHALL BE USED ONLY WHERE DECK LAYOUT DOES NOT PERMIT THE USE OF THREE SPANS. SINGLE SPAN DECK IS NOT PERMITTED.
- ROOF OPENINGS LESS THAN 6" SQUARE OR DIAMETER REQUIRE NO REINFORCEMENT. OPENINGS 6" TO 10" INCLUSIVE SHALL BE REINFORCED WITH A 20 GAUGE GALVANIZED PLATE WELDED TO THE DECK AT EACH CORNER AND 6" MAXIMUM CENTERS WITH A 5/8" DIAMETER PULLEY WELD OR SHEET METAL SCREWS. SEE DRAWINGS FOR REINFORCEMENT OF OPENINGS LARGER THAN 10".
- DECK SHALL BE POSITIONED SO THAT A COMPLETE RB BEARS ON STEEL SUPPORT.

**PLYWOOD ROOF DECKING:**

- DECKING SHALL BE 5/8" APA-C19 RATED PLYWOOD SHEATHING 32/16 (EXPOSURE 1).
- ORIENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT. END JOINT SHALL BE ALIGNED WITH THE MIDPOINT OF THE TWO ADJACENT PANELS. NO CONTINUOUS PANEL JOINTS ARE PERMITTED. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (NO SINGLE SPAN CONDITIONS).
- ATTACHMENT OF PANEL TO FRAMING MEMBERS SHALL BE #10 TEK SCREWS AT THE FOLLOWING SPACINGS, UNLESS OTHERWISE NOTED:  
 6" AT ROOF PERIMETER  
 6" AT PANEL EDGES  
 12" AT INTERMEDIATE SUPPORTS
- EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

**VERIFICATION AND SPECIAL INSPECTION:**

- THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY IBC SECTIONS 1704, 1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION AND TESTING REPORTS TO THE OWNER, ARCHITECT AND BUILDING OFFICIAL AND STRUCTURAL ENGINEER OF RECORD WHICH INDICATES THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. REPORTS WHICH DOCUMENT THE RESULTS OF THE SPECIAL INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. A FINAL REPORT DOCUMENTING ALL THE WORK HAS BEEN PERFORMED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE SUBMITTED AT THE END OF THE PROJECT.
- SEE THE PROJECT SPECIFICATIONS AND SECTION 1704 OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENTS.
- SEE SCHEDULE OF SPECIAL INSPECTION FOR REQUIRED INSPECTION CRITERIA.

**DEFINITIONS:**

- SPECIAL INSPECTION, PERIODIC: A PART-TIME OR INTERMITTENT OBSERVATION WORK BEING PERFORMED REQUIRING A PRESENCE WHEN THE WORK IS BEING PERFORMED AND AFTER COMPLETION OF THE WORK. PRESENCE AT THE JOB SITE SHALL BE WEEKLY AT MINIMUM OR GREATER AS REQUESTED BY THE OWNER.
- SPECIAL INSPECTION, CONTINUOUS: A FULL-TIME OBSERVATION OF WORK REQUIRING CONTINUOUS JOBSITE PRESENCE WHEN AND WHERE THE WORK IS BEING PERFORMED.

- INSTALLATION:  
 A. TRACKS:  
 INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS. ALL TRACK BUTT JOINTS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT WELDED OR SPLICED TOGETHER.  
 B. WALL STUDS:  
 SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SLIP-TRACK CONNECTION TO UNDERSIDE OF BEAMS TO ALLOW 1" VERTICAL DEFLECTION OF STEEL BEAM (NOT APPLICABLE AT LOAD BEARING APPLICATIONS). AT LOAD BEARING APPLICATIONS, SLIP-TRACK CONNECTION SHALL ACCOMMODATE A DEFLECTION OF BEAM SPAN DIVIDED BY 240.  
 C. SUPPLEMENTARY FRAMING:  
 PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITION ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICE CASEWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL OR PARTITION. WHERE TYPE OF SUPPLEMENTARY SUPPORT IS NOT OTHERWISE INDICATED, COMPLY WITH STUD MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADS RESULTING FROM ITEM SUPPORTED.  
 D. WALL OPENINGS:  
 OPENINGS LARGER THAN 2 FEET SQUARE TO BE FRAMED WITH A MINIMUM OF DOUBLE STUDS AT EACH JAMB OR FRAME EXCEPT WHERE MORE ARE REQUIRED.  
 E. ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO SUPPORTING MEMBERS.
- ALL SCREWS SHALL BE NON CORROSIVE NO. 12-14 STANDARD SELF DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).
- ALL SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF 1" UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL SCREWS SHALL BE A MINIMUM OF 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL METAL STUD WALLS SHALL HAVE WALL CONTINUOUS WALL BRIDGING @ 4'-0" O.C. MAXIMUM. CONTINUOUS BRIDGING MAY CONSIST OF 1 1/2" - 33 MIL STRAPS (2 1/2" - 43 MIL AT WALLS USED AS SHEAR WALLS OR WALLS WITH "X" STRAP BRACING). AS AN ALTERNATE TO STRAP BRIDGING, FOR 3 5/8" OR 4" STUDS ONLY, PROVIDE 1 1/2" CRC CHANNEL BRIDGING (150-U55-54 AT THE CENTERLINE OF STUDS WITH (2) #6 SCREWS PER ANGLE FLANGE.
- CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO THE NUMBER OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF (2) (2) STUDS EACH SIDE.
- VOIDS BENEATH WALL TRACK SHALL NOT BE PERMITTED. WHERE UNEVENNESS OR SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELLED BY PLACING MORTAR OR GROUT BENEATH TRACK.
- MINIMUM TRACK FASTENING INTO CONCRETE SHALL BE 6" 15/16" DIAMETER POWDER ACTUATED FASTENERS AT 16" OC (UNO) WITH 1" PENETRATION INTO CONCRETE.

**METAL ROOF DECK:**

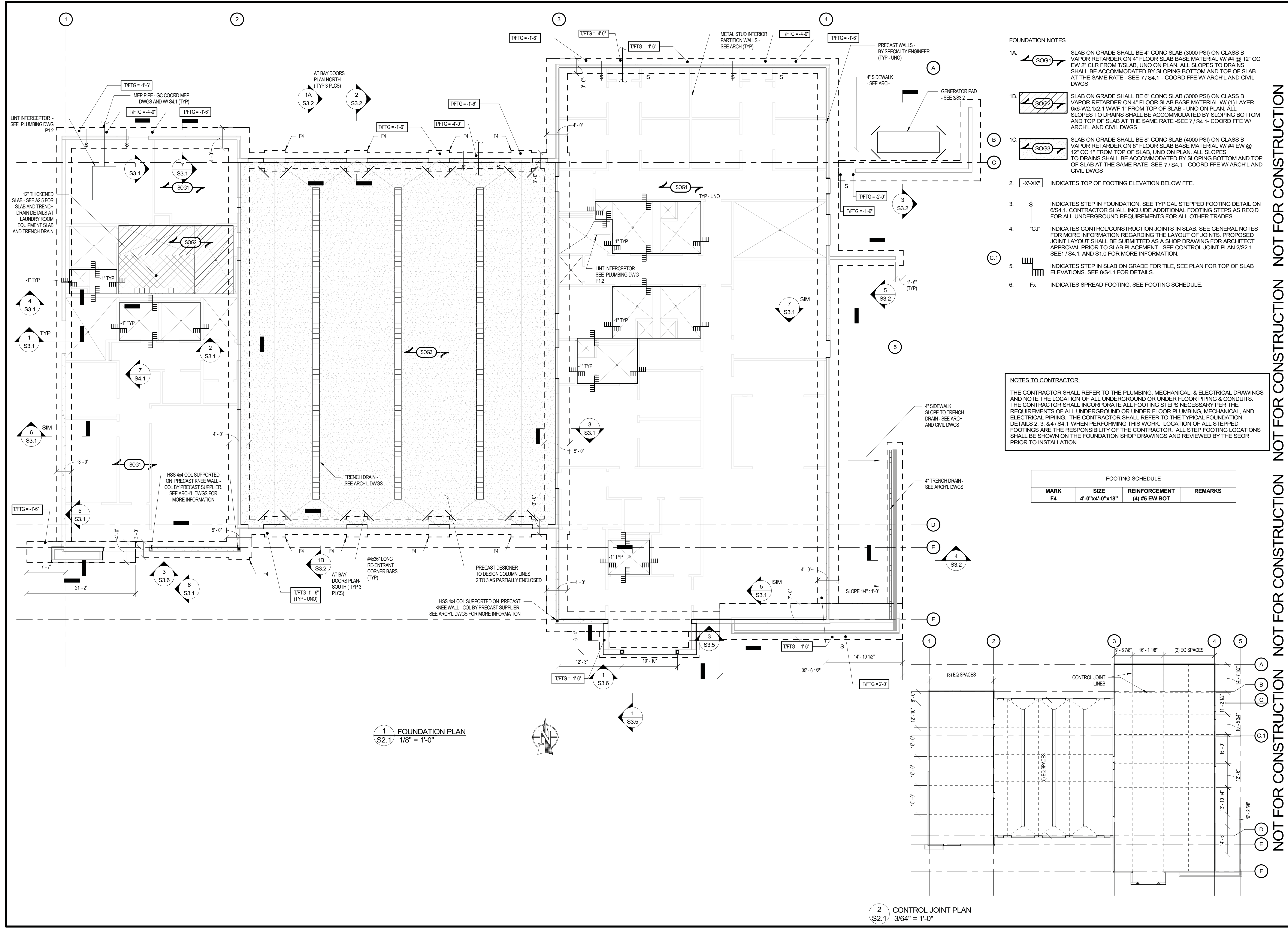
- METAL ROOF DECK SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE SDI RD-2017 STANDARD FOR STEEL ROOF DECK.
- THE METAL DECK WORK SHALL CONSIST OF FURNISHING EVERYTHING (LABOR, MATERIALS, ACCESSORIES, EQUIPMENT, ETC.) NECESSARY AND INCIDENTAL TO THE EXECUTION AND COMPLETION OF ALL METAL DECK WORK AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- SUBMIT PLACEMENT AND DETAILED ("SHOP") DRAWINGS FOR REVIEW. NO METAL DECK SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- METAL DECK SHALL CONFORM TO STEEL DECK INSTITUTE'S CURRENT STANDARDS.
- METAL DECK SHALL BE OF THE CONFIGURATION, DEPTH AND MINIMUM GAGE AS SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUPPORTING STRUCTURE SHALL BE AS SHOWN ON THE DRAWINGS AS A MINIMUM. SEE PLAN NOTES.
- DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.
- WHERE POSSIBLE, METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS. TWO SPAN DECK SHALL BE USED ONLY WHERE DECK LAYOUT DOES NOT PERMIT THE USE OF THREE SPANS. SINGLE SPAN DECK IS NOT PERMITTED.
- ROOF OPENINGS LESS THAN 6" SQUARE OR DIAMETER REQUIRE NO REINFORCEMENT. OPENINGS 6" TO 10" INCLUSIVE SHALL BE REINFORCED WITH A 20 GAUGE GALVANIZED PLATE WELDED TO THE DECK AT EACH CORNER AND 6" MAXIMUM CENTERS WITH A 5/8" DIAMETER PULLEY WELD OR SHEET METAL SCREWS. SEE DRAWINGS FOR REINFORCEMENT OF OPENINGS LARGER THAN 10".
- DECK SHALL BE POSITIONED SO THAT A COMPLETE RB BEARS ON STEEL SUPPORT.

**PLYWOOD ROOF DECKING:**

- DECKING SHALL BE 5/8" APA-C19 RATED PLYWOOD SHEATHING 32/16 (EXPOSURE 1).
- ORIENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT. END JOINT SHALL BE ALIGNED WITH THE MIDPOINT OF THE TWO ADJACENT PANELS. NO CONTINUOUS PANEL JOINTS ARE PERMITTED. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (NO SINGLE SPAN CONDITIONS).
- ATTACHMENT OF PANEL TO FRAMING MEMBERS SHALL BE #10 TEK SCREWS AT THE FOLLOWING SPACINGS, UNLESS OTHERWISE NOTED:  
 6" AT ROOF PERIMETER  
 6" AT PANEL EDGES  
 12" AT INTERMEDIATE SUPPORTS
- EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

**VERIFICATION AND SPECIAL INSPECTION:**

- THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY IBC SECTIONS 1704, 1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- APPROVED

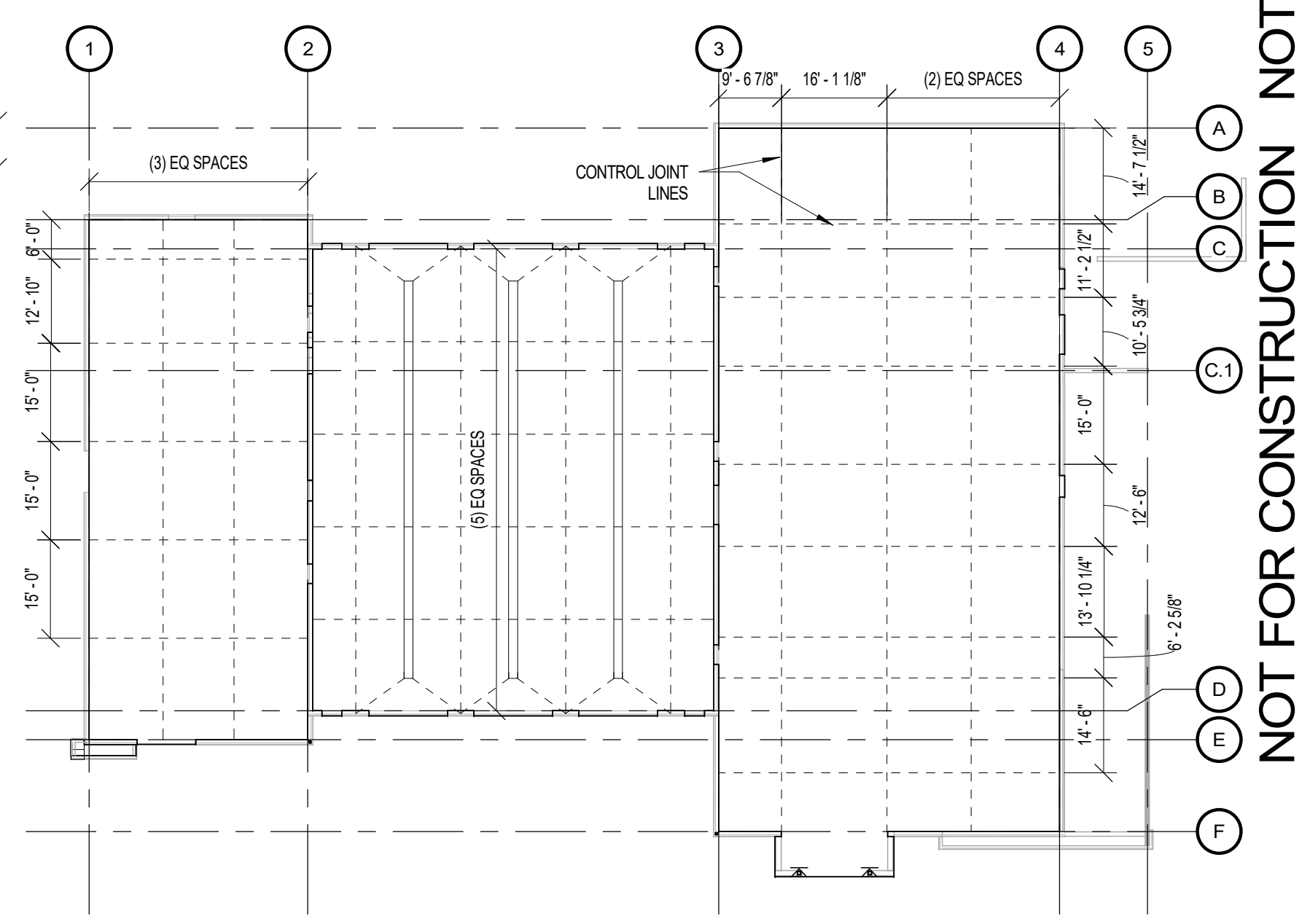


- FOUNDATION NOTES**
- 1A. SLAB ON GRADE SHALL BE 4" CONC SLAB (3000 PSI) ON CLASS B VAPOR RETARDER ON 4" FLOOR SLAB BASE MATERIAL W/ #4 @ 12" OC EW 2" CLR FROM T/SLAB, UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE - SEE 7 / S4.1 - COORD FFE W/ ARCHL AND CIVIL DWGS
  - 1B. SLAB ON GRADE SHALL BE 6" CONC SLAB (3000 PSI) ON CLASS B VAPOR RETARDER ON 4" FLOOR SLAB BASE MATERIAL W/ (1) LAYER 6x6-W2 1x2 1 WVF 1" FROM TOP OF SLAB - UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE - SEE 7 / S4.1 - COORD FFE W/ ARCHL AND CIVIL DWGS
  - 1C. SLAB ON GRADE SHALL BE 8" CONC SLAB (4000 PSI) ON CLASS B VAPOR RETARDER ON 8" FLOOR SLAB BASE MATERIAL W/ #4 EW @ 12" OC 1" FROM TOP OF SLAB, UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACCOMMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE - SEE 7 / S4.1 - COORD FFE W/ ARCHL AND CIVIL DWGS
  2. INDICATES TOP OF FOOTING ELEVATION BELOW FFE.
  3. INDICATES STEP IN FOUNDATION. SEE TYPICAL STEPPED FOOTING DETAIL ON 6/S4.1. CONTRACTOR SHALL INCLUDE ADDITIONAL FOOTING STEPS AS REQ'D FOR ALL UNDERGROUND REQUIREMENTS FOR ALL OTHER TRADES.
  4. INDICATES CONTROL/CONSTRUCTION JOINTS IN SLAB. SEE GENERAL NOTES FOR MORE INFORMATION REGARDING THE LAYOUT OF JOINTS. PROPOSED JOINT LAYOUT SHALL BE SUBMITTED AS A SHOP DRAWING FOR ARCHITECT APPROVAL PRIOR TO SLAB PLACEMENT - SEE CONTROL JOINT PLAN 2/S2.1. SEE 1 / S4.1, AND S1.0 FOR MORE INFORMATION.
  5. INDICATES STEP IN SLAB ON GRADE FOR TILE. SEE PLAN FOR TOP OF SLAB ELEVATIONS. SEE 8/S4.1 FOR DETAILS.
  6. INDICATES SPREAD FOOTING. SEE FOOTING SCHEDULE.

**NOTES TO CONTRACTOR**

THE CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS AND NOTE THE LOCATION OF ALL UNDERGROUND OR UNDER FLOOR PIPING & CONDUITS. THE CONTRACTOR SHALL INCORPORATE ALL FOOTING STEPS NECESSARY PER THE REQUIREMENTS OF ALL UNDERGROUND OR UNDER FLOOR PLUMBING, MECHANICAL, AND ELECTRICAL PIPING. THE CONTRACTOR SHALL REFER TO THE TYPICAL FOUNDATION DETAILS 2, 3, & 4 / S4.1 WHEN PERFORMING THIS WORK. LOCATION OF ALL STEPPED FOOTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STEP FOOTING LOCATIONS SHALL BE SHOWN ON THE FOUNDATION SHOP DRAWINGS AND REVIEWED BY THE SEOR PRIOR TO INSTALLATION.

FOOTING SCHEDULE			
MARK	SIZE	REINFORCEMENT	REMARKS
F4	4'-0"x4'-0"x18"	(4) #5 EW BOT	



1 FOUNDATION PLAN  
 S2.1 1/8" = 1'-0"

2 CONTROL JOINT PLAN  
 S2.1 3/64" = 1'-0"

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FOUNDATION PLAN

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CHECKED	WJP	CHECKED	WJP

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PROJECT

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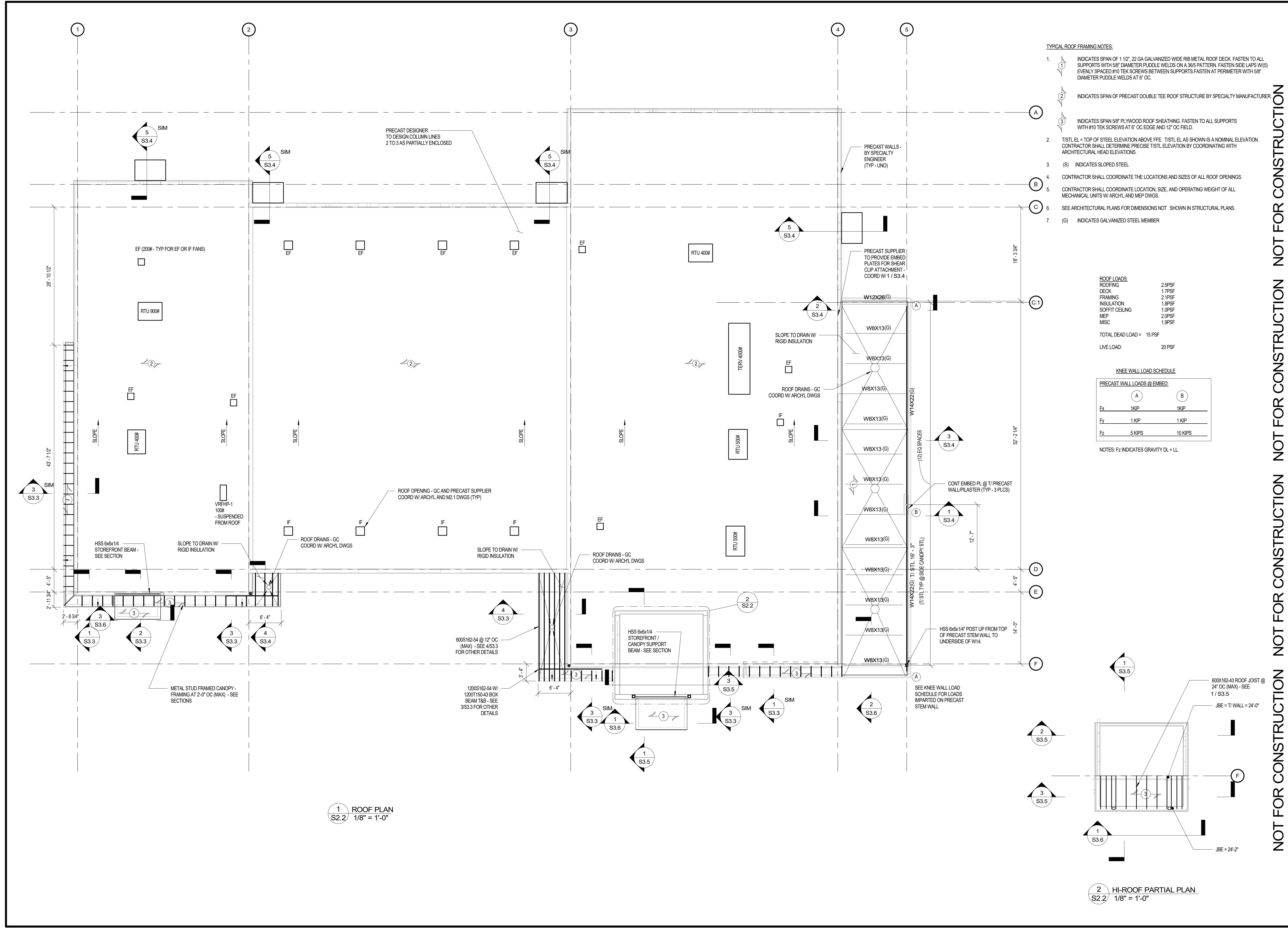
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10/26/2021	DATE	A21-006	PROJ. NUMBER

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S2.1

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1 ROOF PLAN  
 S2.2 1/8" = 1'-0"

- TYPICAL ROOF FRAMING NOTES:**
- INDICATES SPAN OF 1 1/2" 22 GA GALVANIZED WIDE RIB METAL ROOF DECK. FASTEN TO ALL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS ON A 365 PATTERN. FASTEN SIDE LAPS W/ (5) EVENLY SPACED #10 TEK SCREWS BETWEEN SUPPORTS. FASTEN AT PERIMETER WITH 5/8" DIAMETER PUDDLE WELDS AT 6' OC.
  - INDICATES SPAN OF PRECAST DOUBLE TEE ROOF STRUCTURE BY SPECIALTY MANUFACTURER.
  - INDICATES SPAN 5/8" PLYWOOD ROOF SHEATHING. FASTEN TO ALL SUPPORTS WITH #10 TEK SCREWS AT 6' OC EDGE AND 12" OC FIELD.
  - T/STL EL = TOP OF STEEL ELEVATION ABOVE FFE. T/STL EL AS SHOWN IS A NOMINAL ELEVATION. CONTRACTOR SHALL DETERMINE PRECISE T/STL ELEVATION BY COORDINATING WITH ARCHITECTURAL HEAD ELEVATIONS.
  - (S) INDICATES SLOPED STEEL.
  - CONTRACTOR SHALL COORDINATE THE LOCATIONS AND SIZES OF ALL ROOF OPENINGS.
  - CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND OPERATING WEIGHT OF ALL MECHANICAL UNITS W/ ARCHL AND MEP DWGS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL PLANS.
  - (G) INDICATES GALVANIZED STEEL MEMBER.

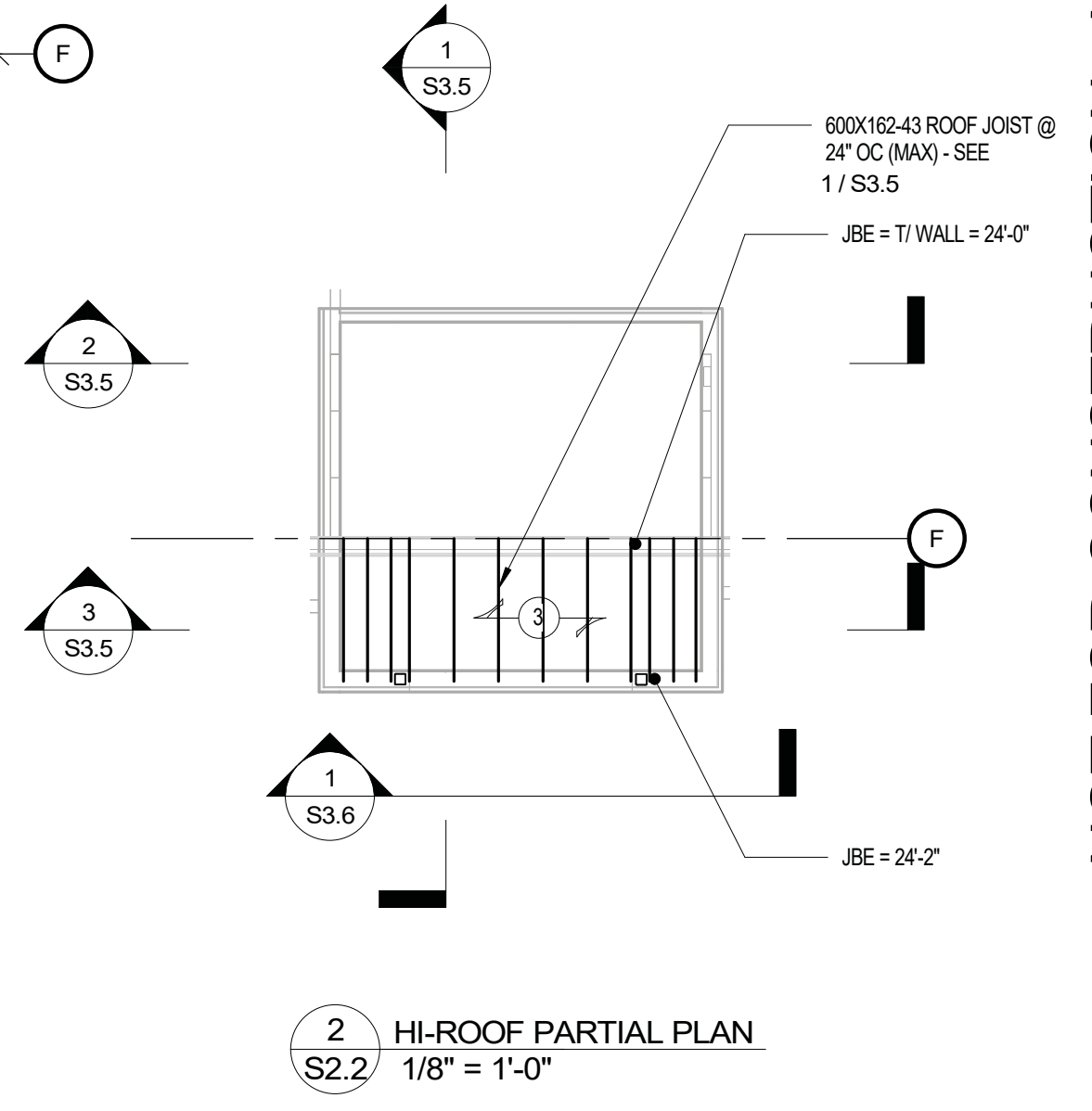
**ROOF LOADS:**

ROOFING	2.5PSF
DECK	1.7PSF
FRAMING	2.1PSF
INSULATION	1.8PSF
SOFFIT CEILING	1.0PSF
MEP	2.0PSF
MISC	1.8PSF
<b>TOTAL DEAD LOAD =</b>	<b>15 PSF</b>
<b>LIVE LOAD =</b>	<b>20 PSF</b>

**KNEE WALL LOAD SCHEDULE**

PRECAST WALL LOADS @ EMBED:		
	A	B
Ex	1KIP	1KIP
Fy	1 KIP	1 KIP
Fz	5 KIPS	10 KIPS

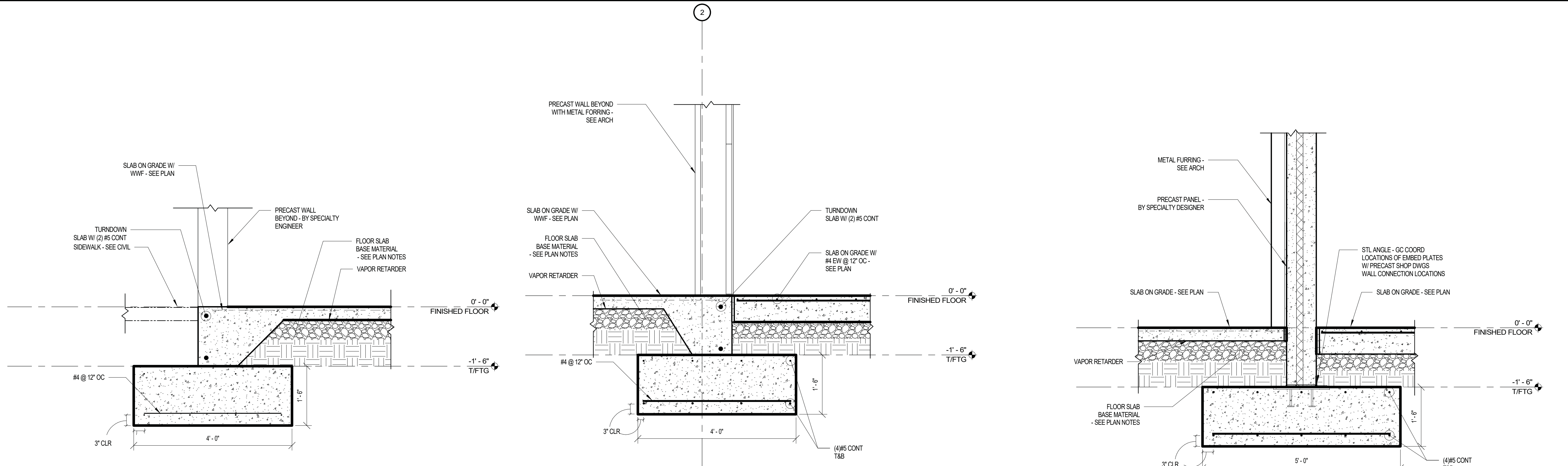
NOTES: Fz INDICATES GRAVITY DL + LL



2 HI-ROOF PARTIAL PLAN  
 S2.2 1/8" = 1'-0"

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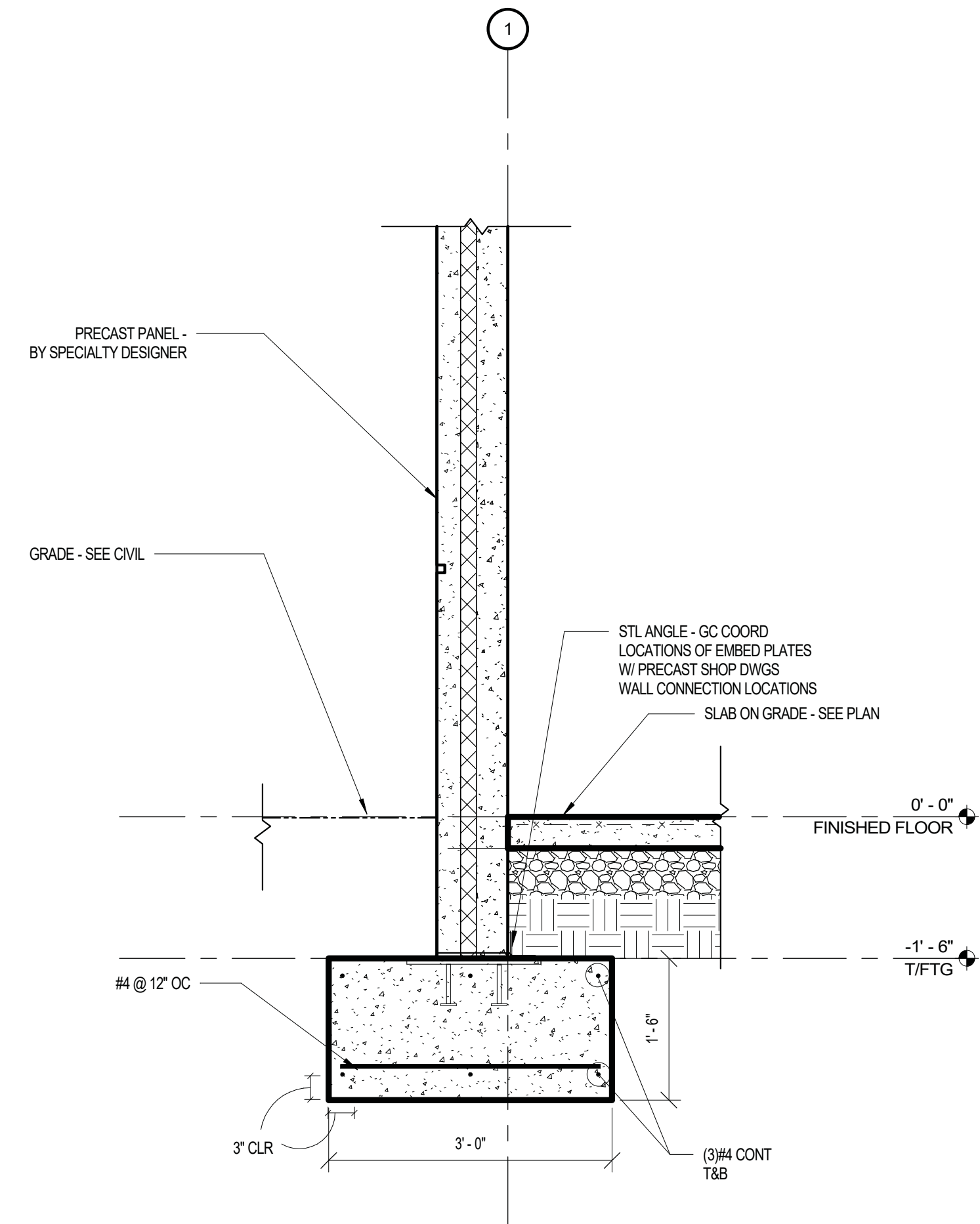
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<p style="font-size: 24px; font-weight: bold; margin: 0;">PRECISION Planning Inc.</p> <p style="font-size: 10px; margin: 0;">planners • engineers • architects • surveyors</p> <p style="font-size: 8px; margin: 0;">400 Pike Boulevard, Lawrenceville, GA 30046 770.338.8000 • www.ppi.us</p>	<p style="font-size: 18px; font-weight: bold; margin: 0;">GILLEM PUBLIC SAFETY FACILITY</p> <p style="font-size: 8px; margin: 0;">2090 Anvil Block Road Forest Park, GA 30294</p>	<p style="font-size: 12px; font-weight: bold; margin: 0;">PROJECT</p>
<p style="font-size: 12px; font-weight: bold; margin: 0;">ROOF PLAN</p>	<p style="font-size: 12px; font-weight: bold; margin: 0;">SHEET TITLE</p>	<p style="font-size: 12px; font-weight: bold; margin: 0;">RELEASE</p>
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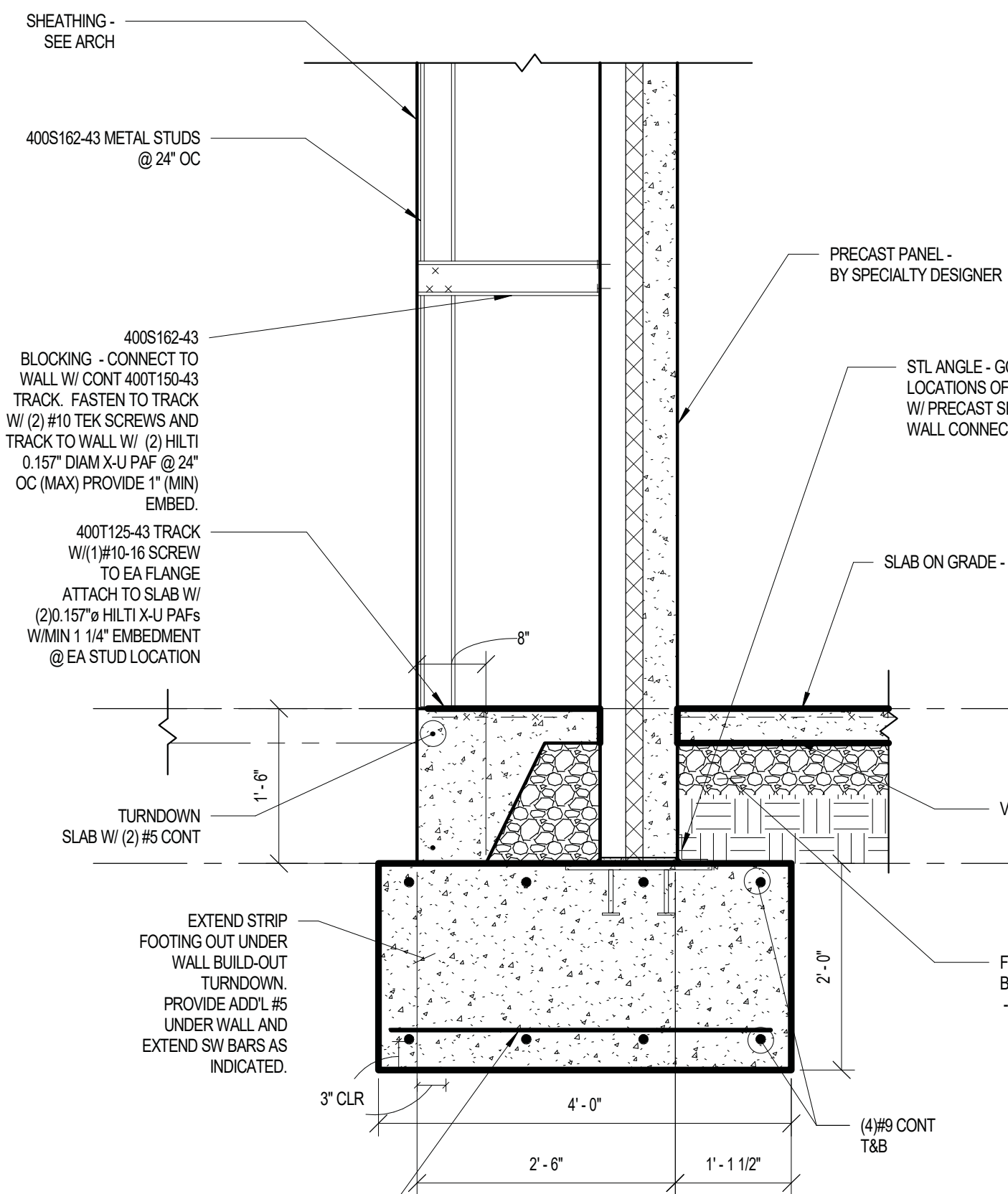
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 3/4" = 1'-0"

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

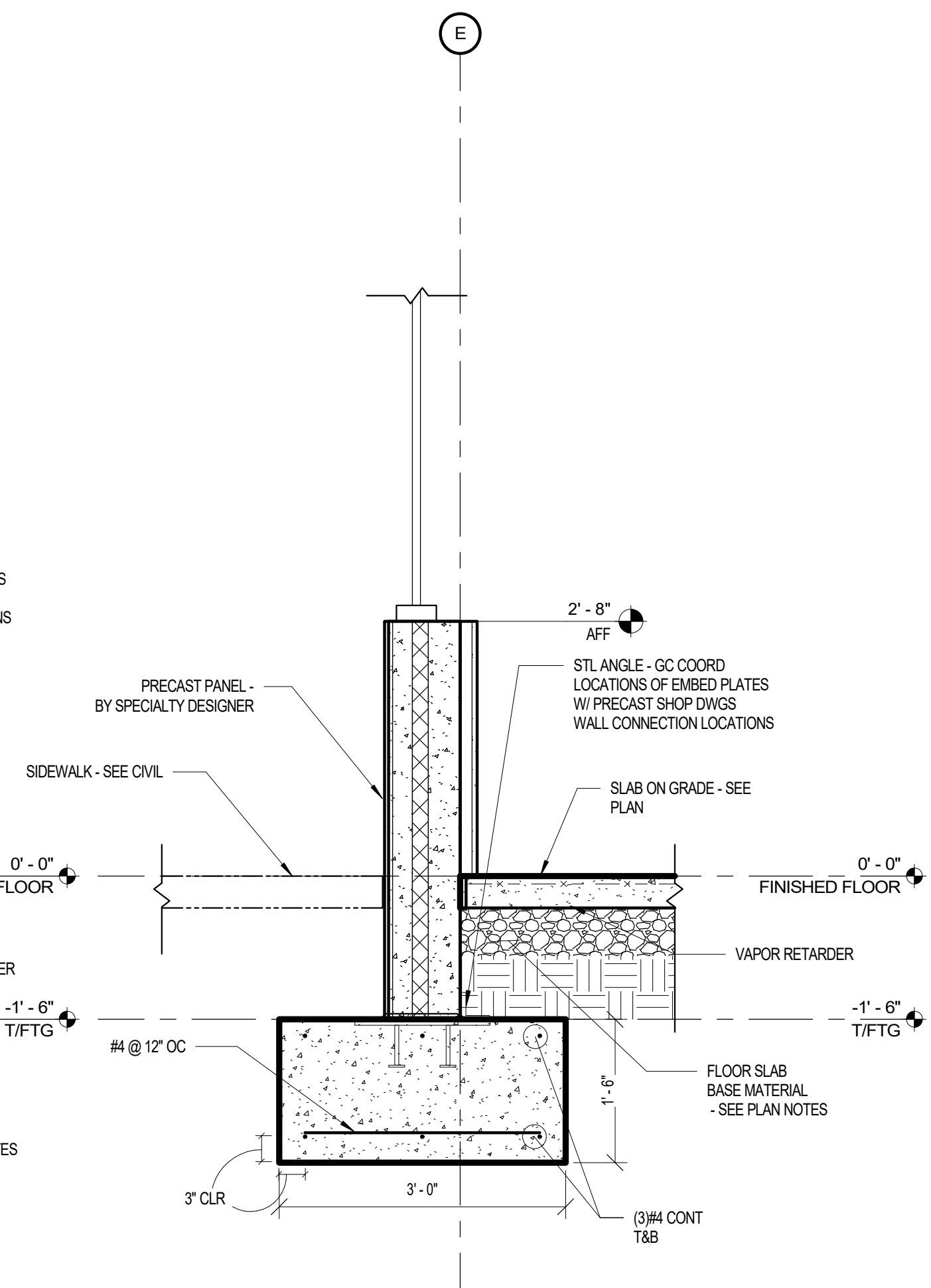
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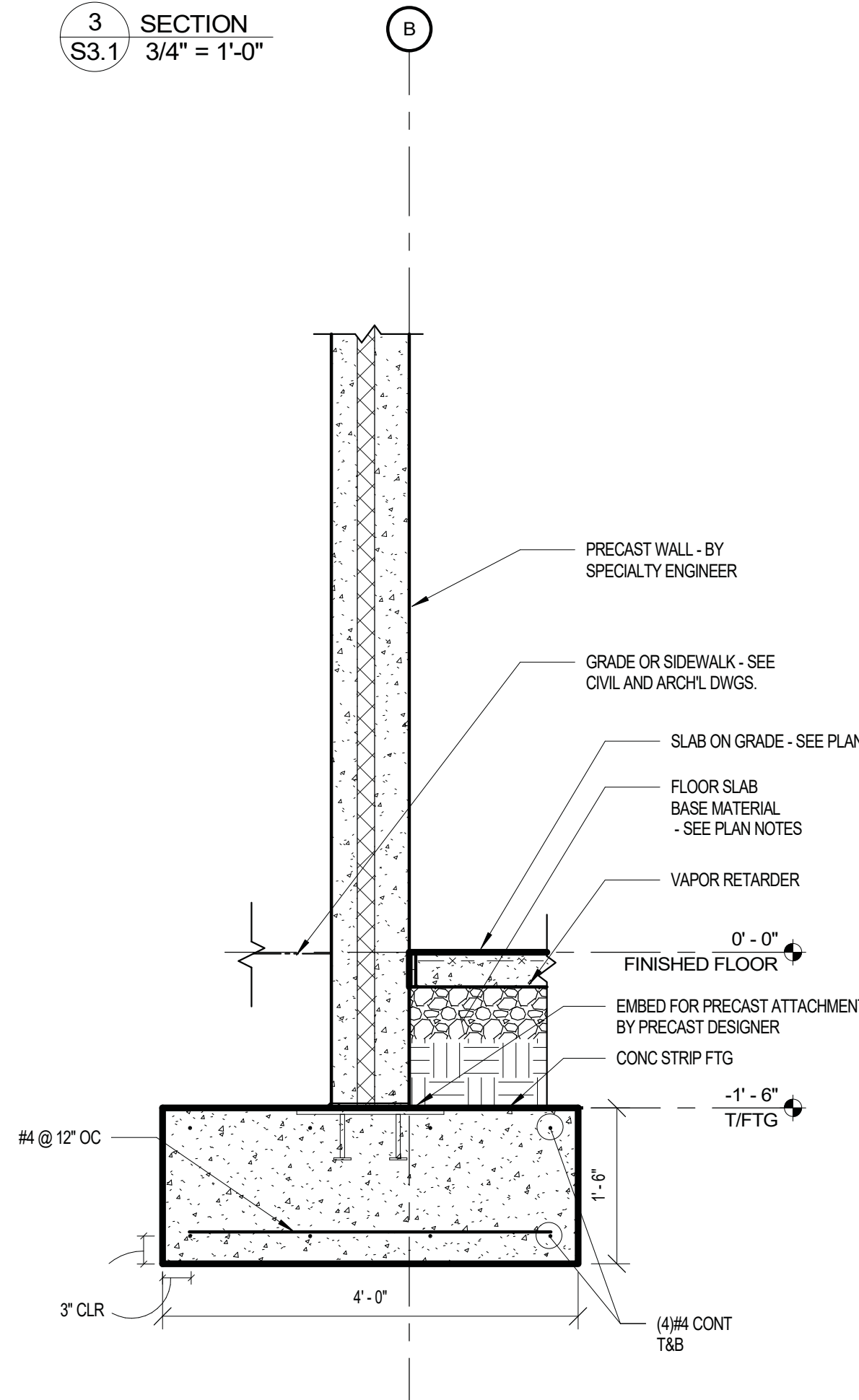
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 3/4" = 1'-0"



5 SECTION  
 S3.1  
 3/4" = 1'-0"



6 SECTION  
 S3.1  
 3/4" = 1'-0"



7 SECTION  
 S3.1  
 3/4" = 1'-0"

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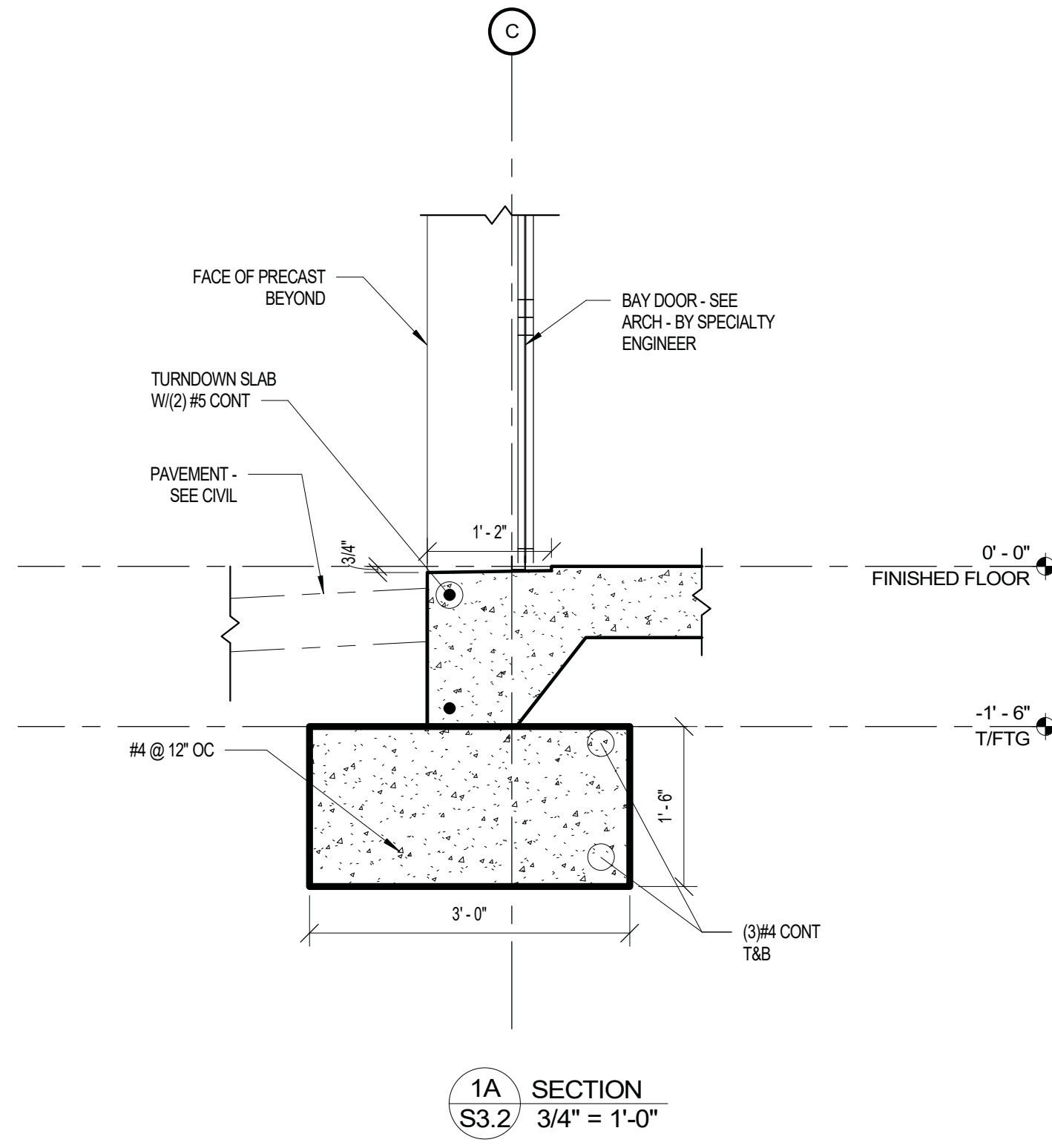
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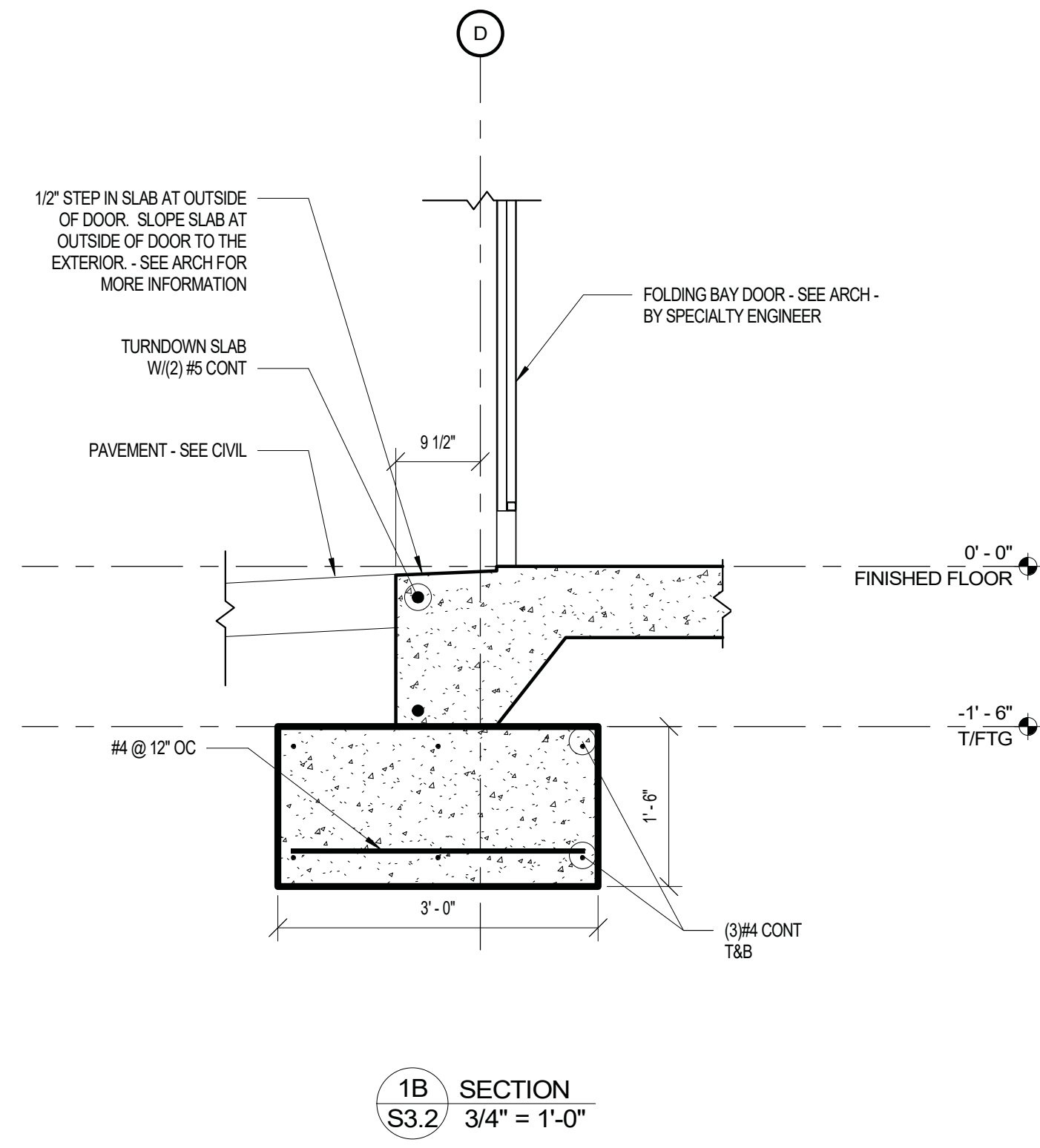
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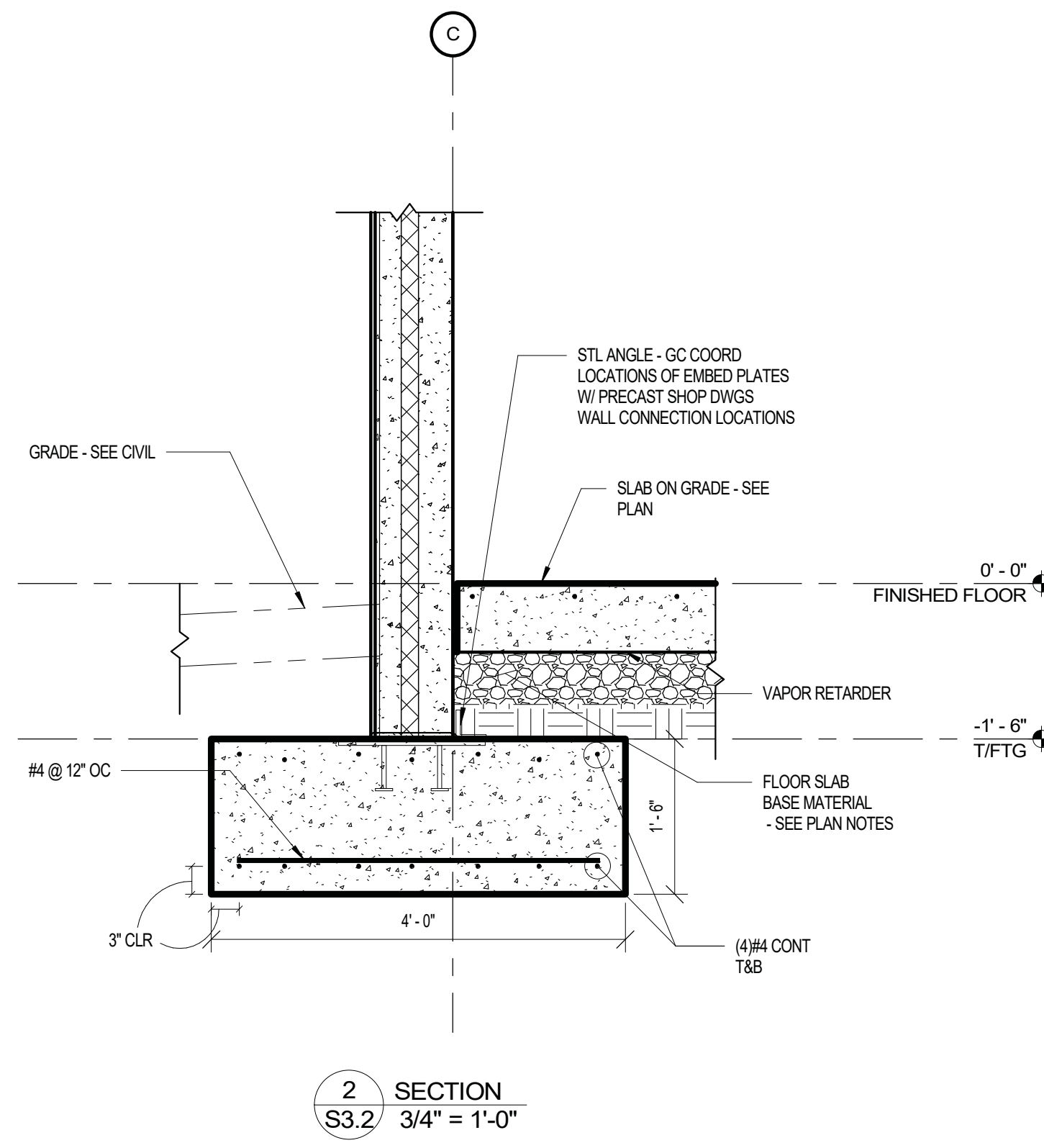
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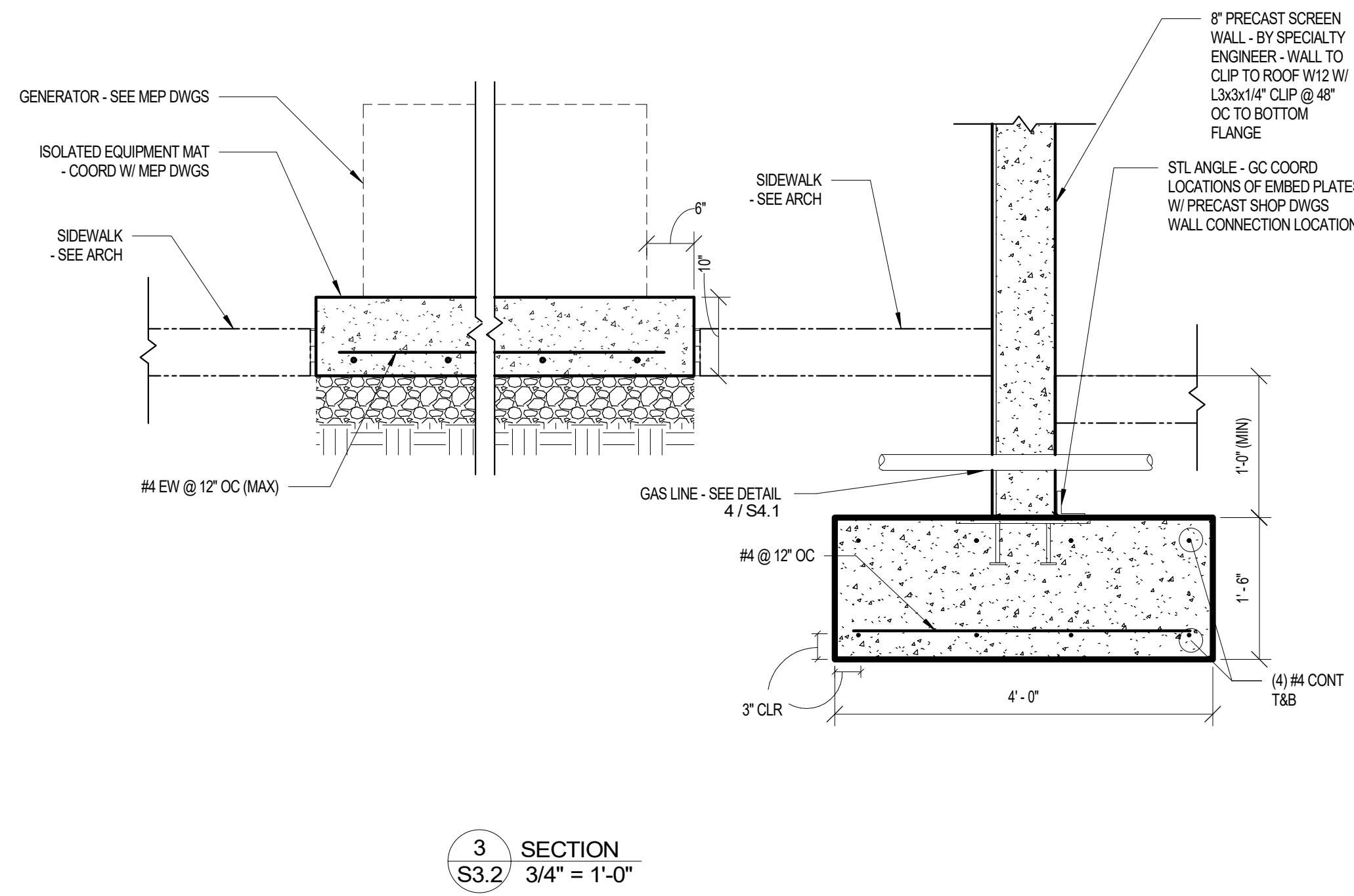
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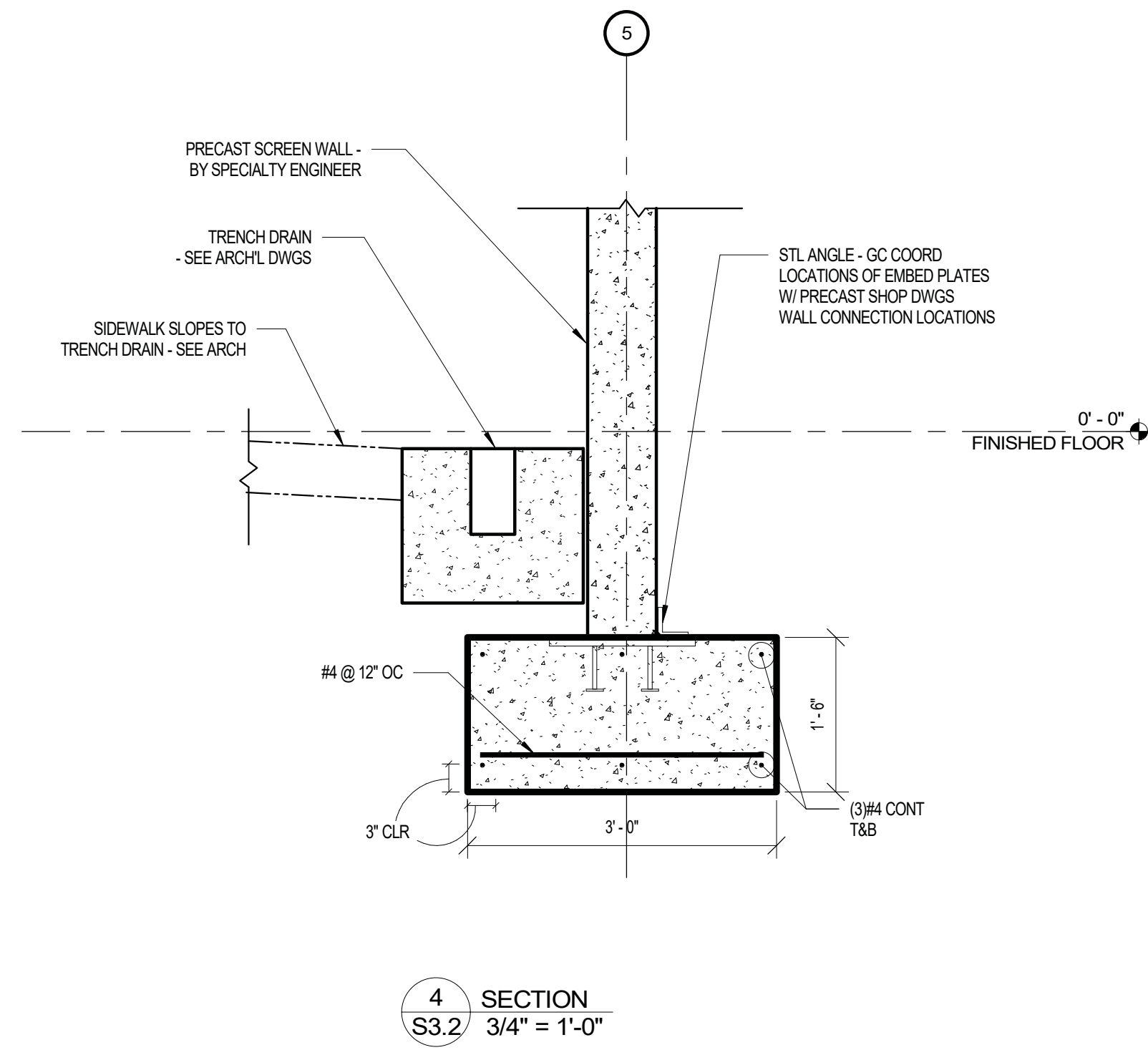
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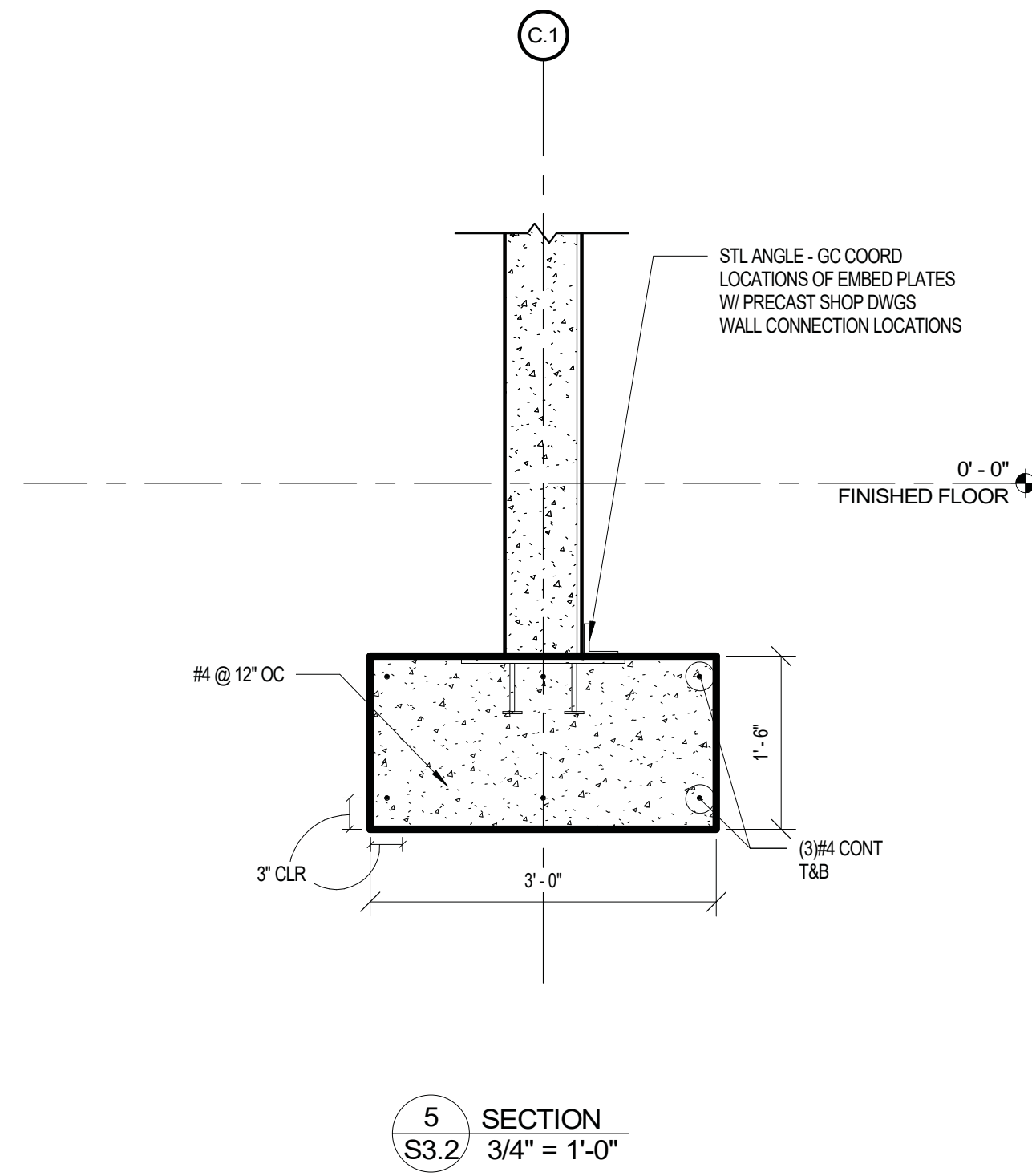
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3 SECTION  
 S3.2 3/4" = 1'-0"



4 SECTION  
 S3.2 3/4" = 1'-0"



5 SECTION  
 S3.2 3/4" = 1'-0"

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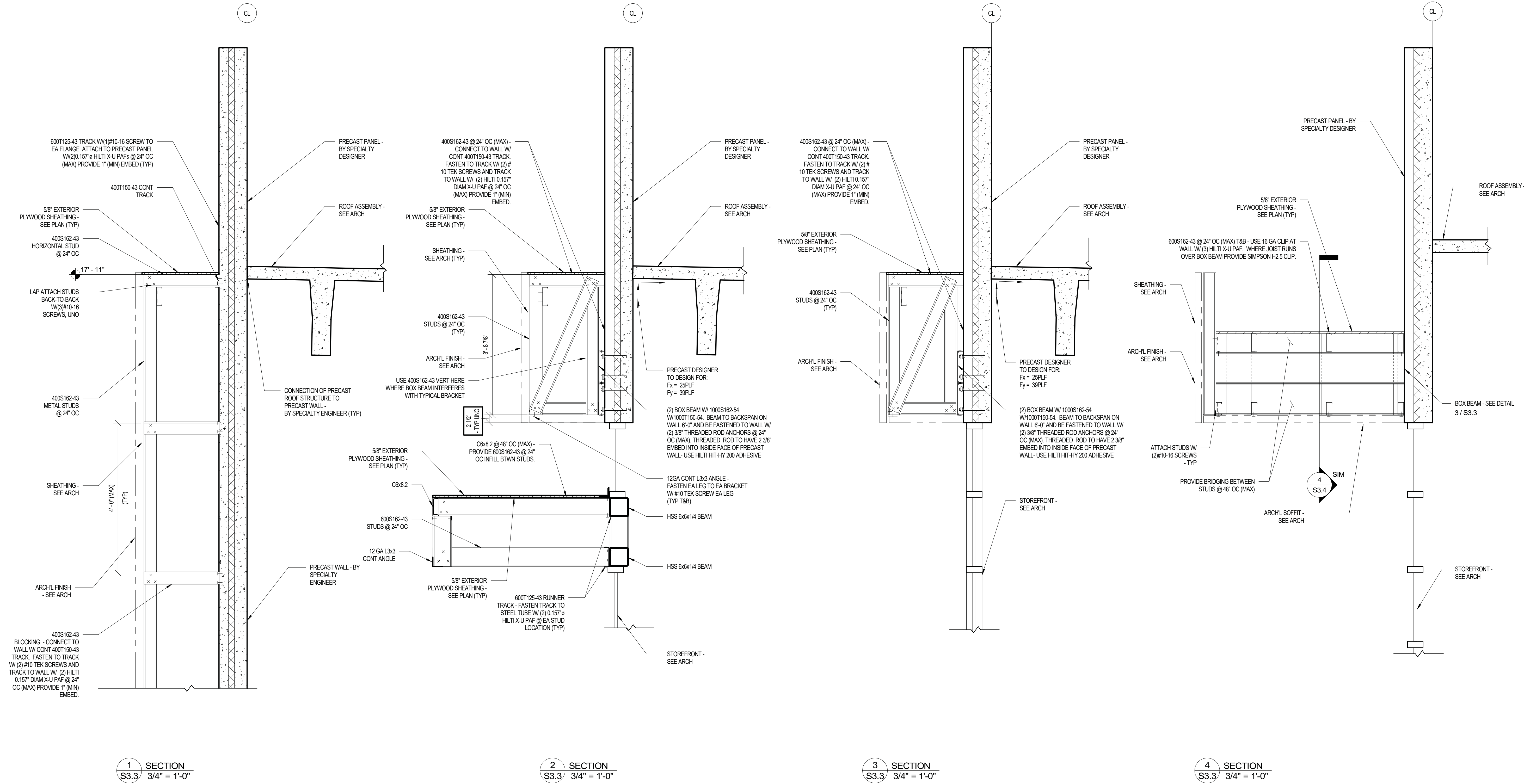
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 S3.3 3/4" = 1'-0"

2 SECTION  
 S3.3 3/4" = 1'-0"

3 SECTION  
 S3.3 3/4" = 1'-0"

4 SECTION  
 S3.3 3/4" = 1'-0"

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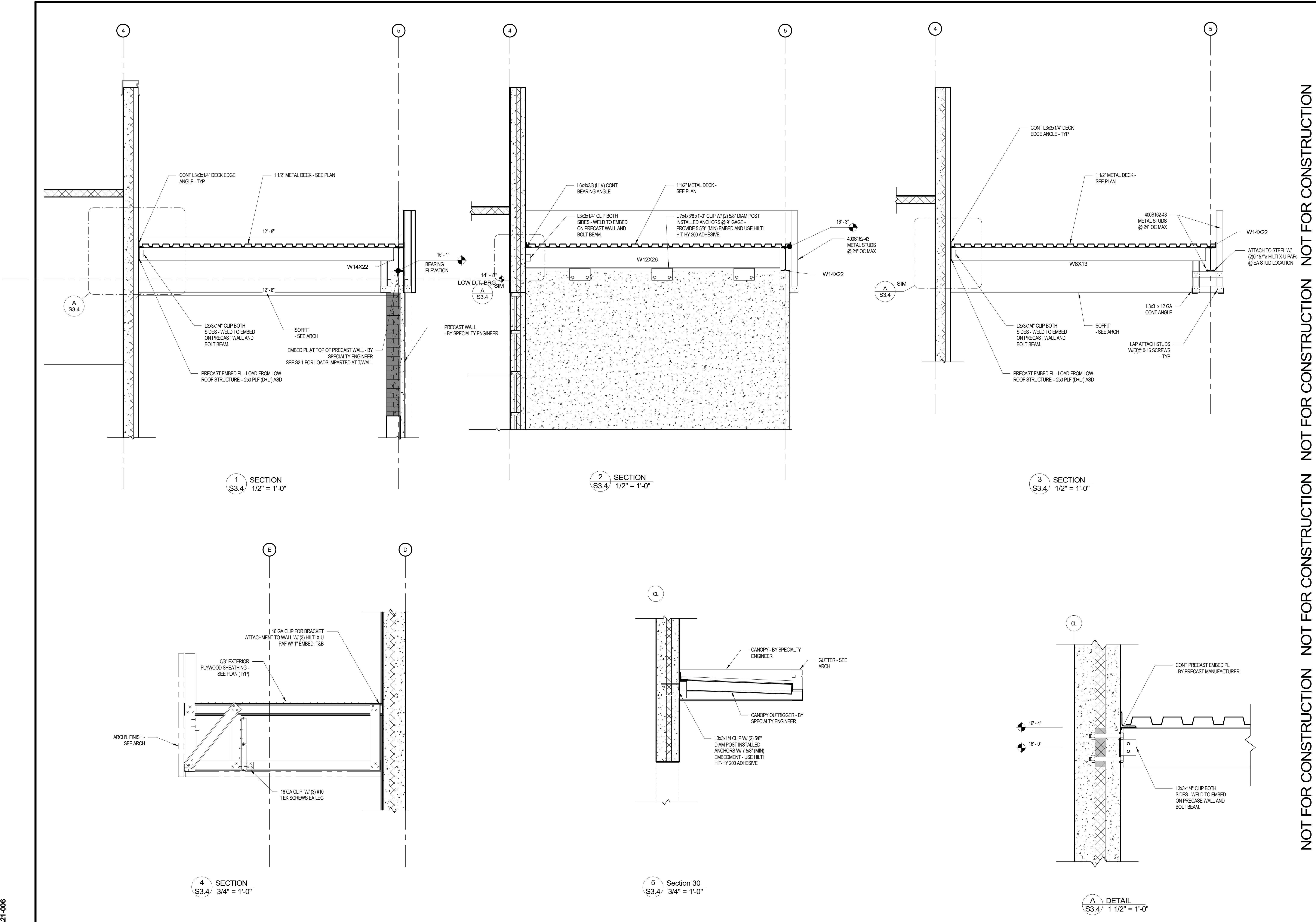
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A  
 S3.4  
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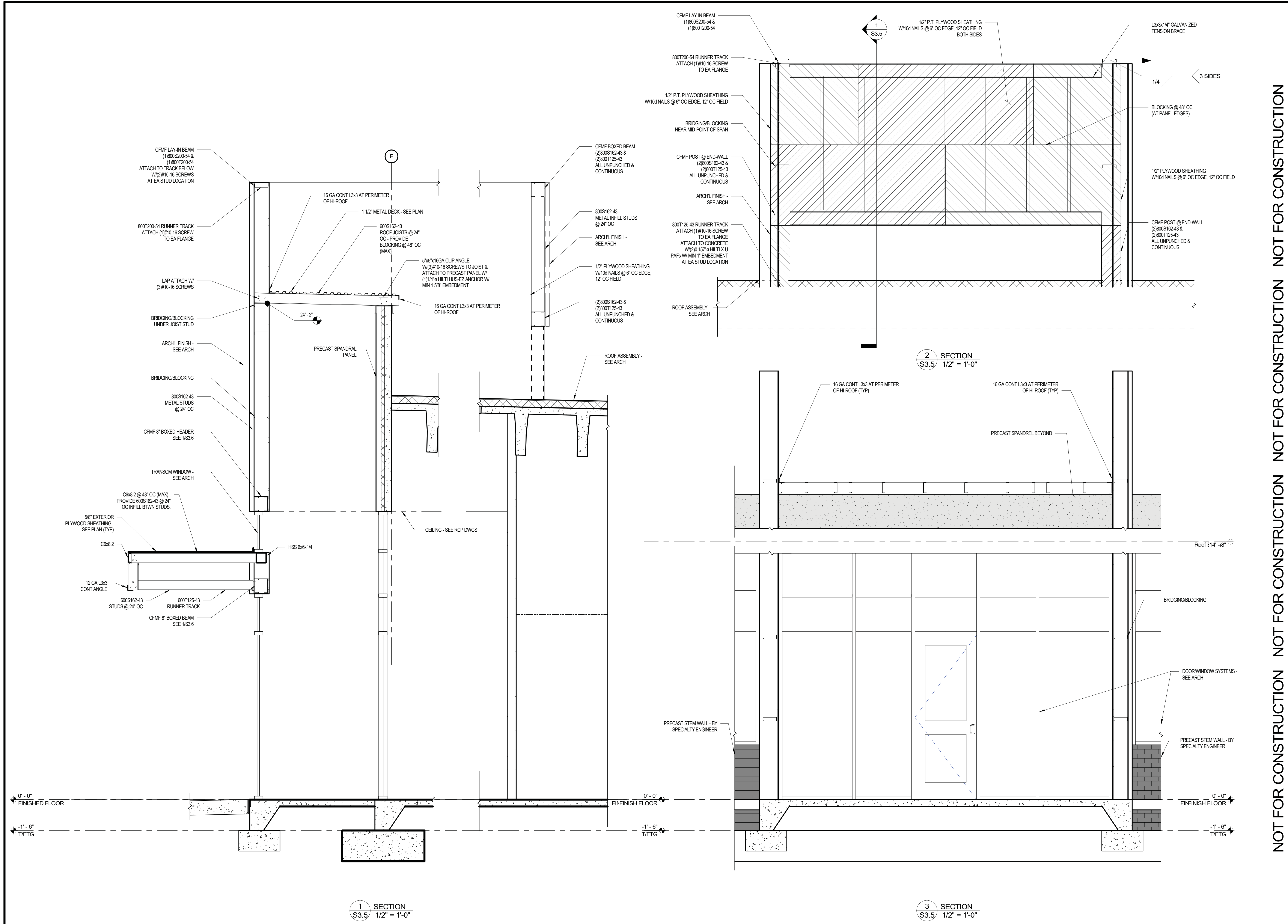
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 Section 30  
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4  
 S3.4  
 3/4" = 1'-0"

3  
 S3.4  
 1/2" = 1'-0"

2  
 S3.4  
 1/2" = 1'-0"

1  
 S3.4  
 1/2" = 1'-0"



1 SECTION  
 S3.5 1/2" = 1'-0"

3 SECTION  
 S3.5 1/2" = 1'-0"

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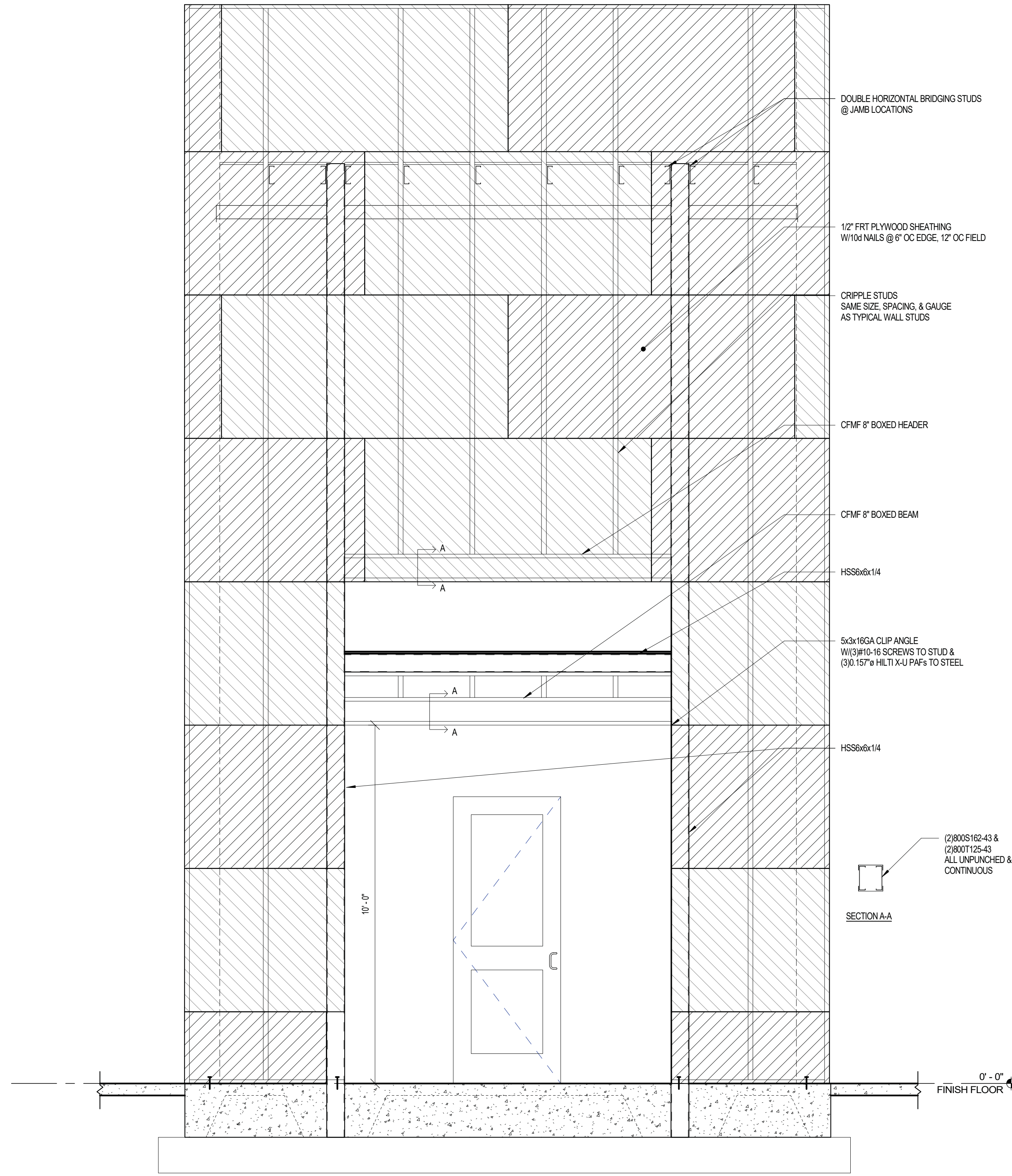
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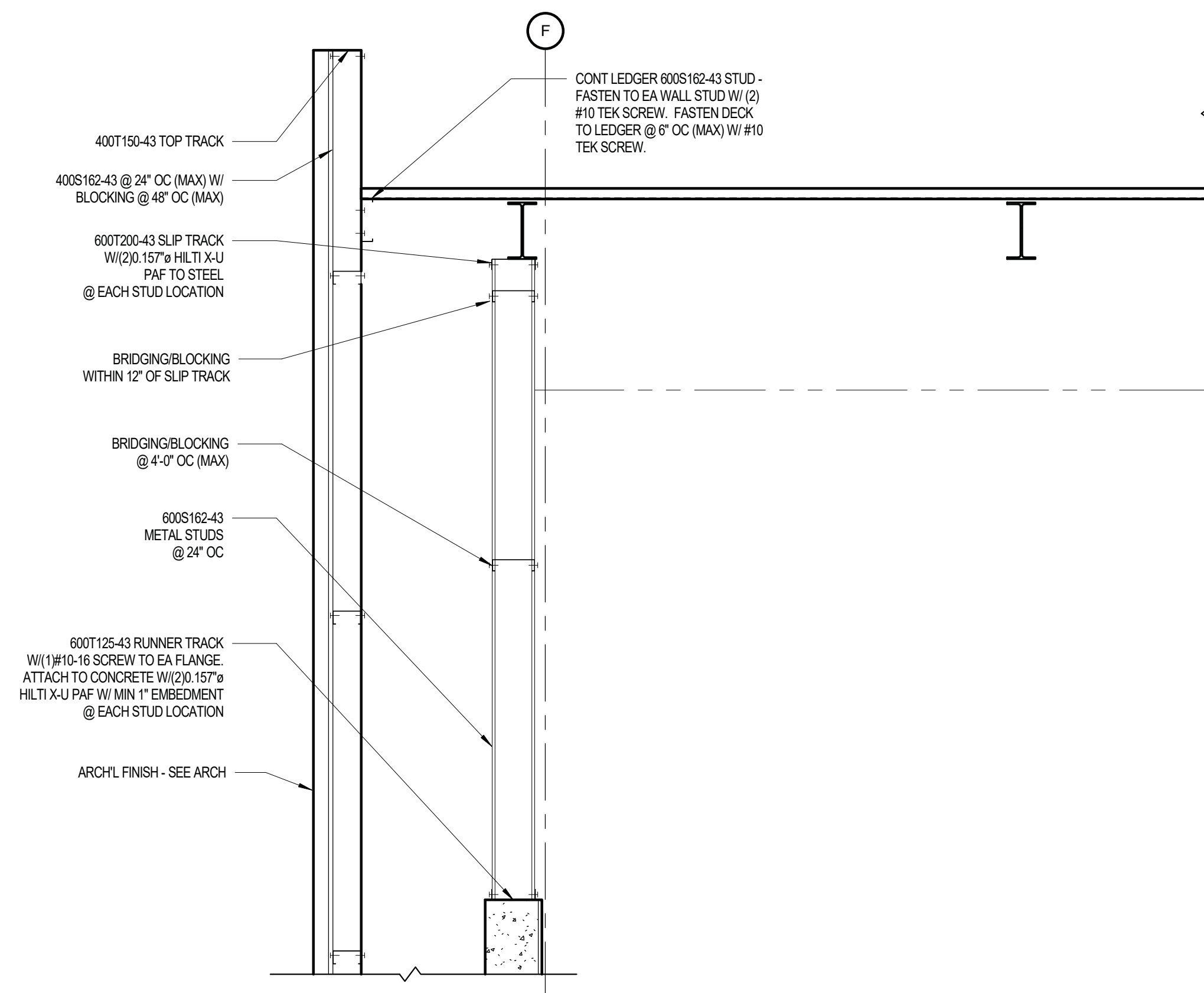
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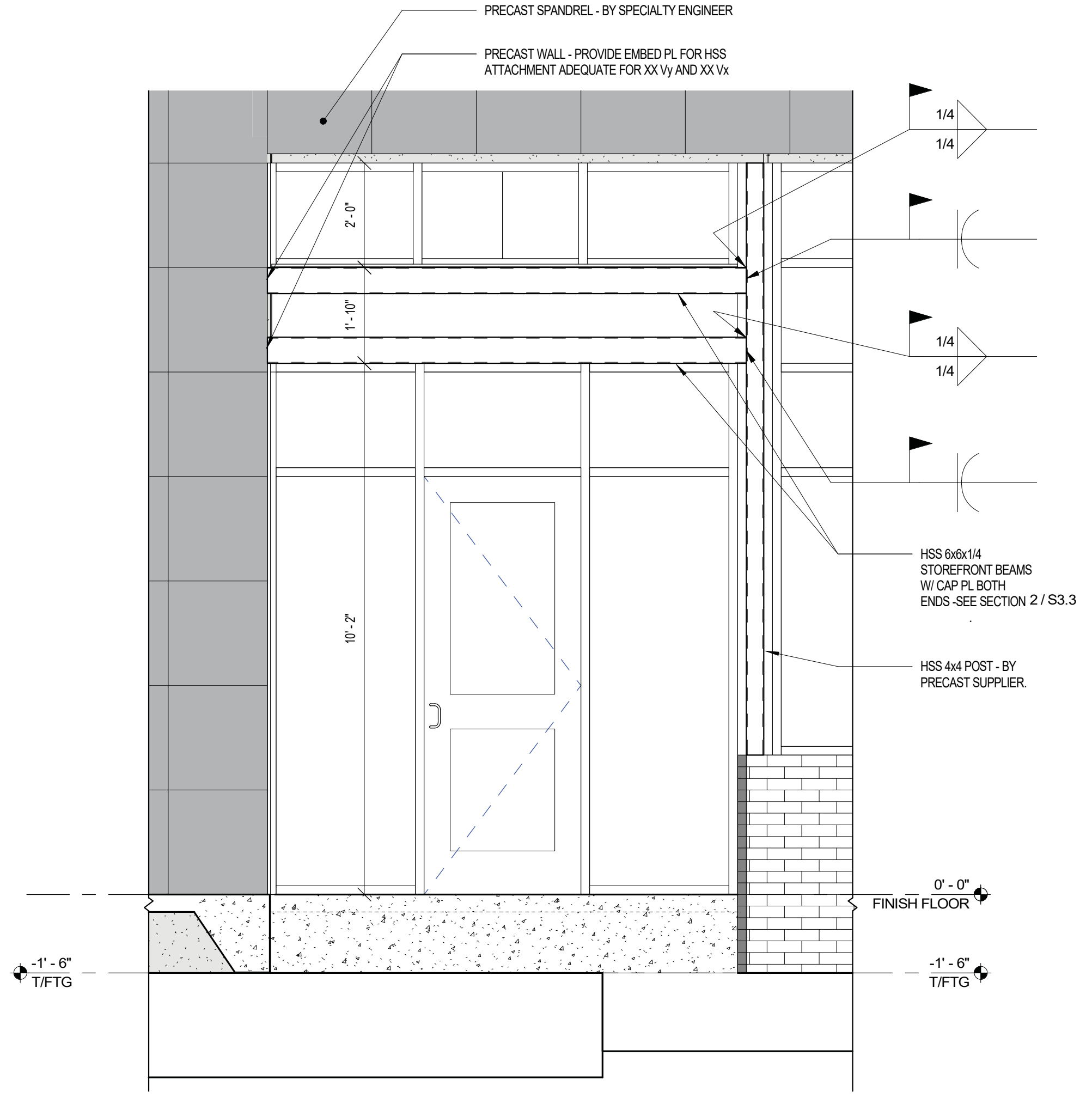
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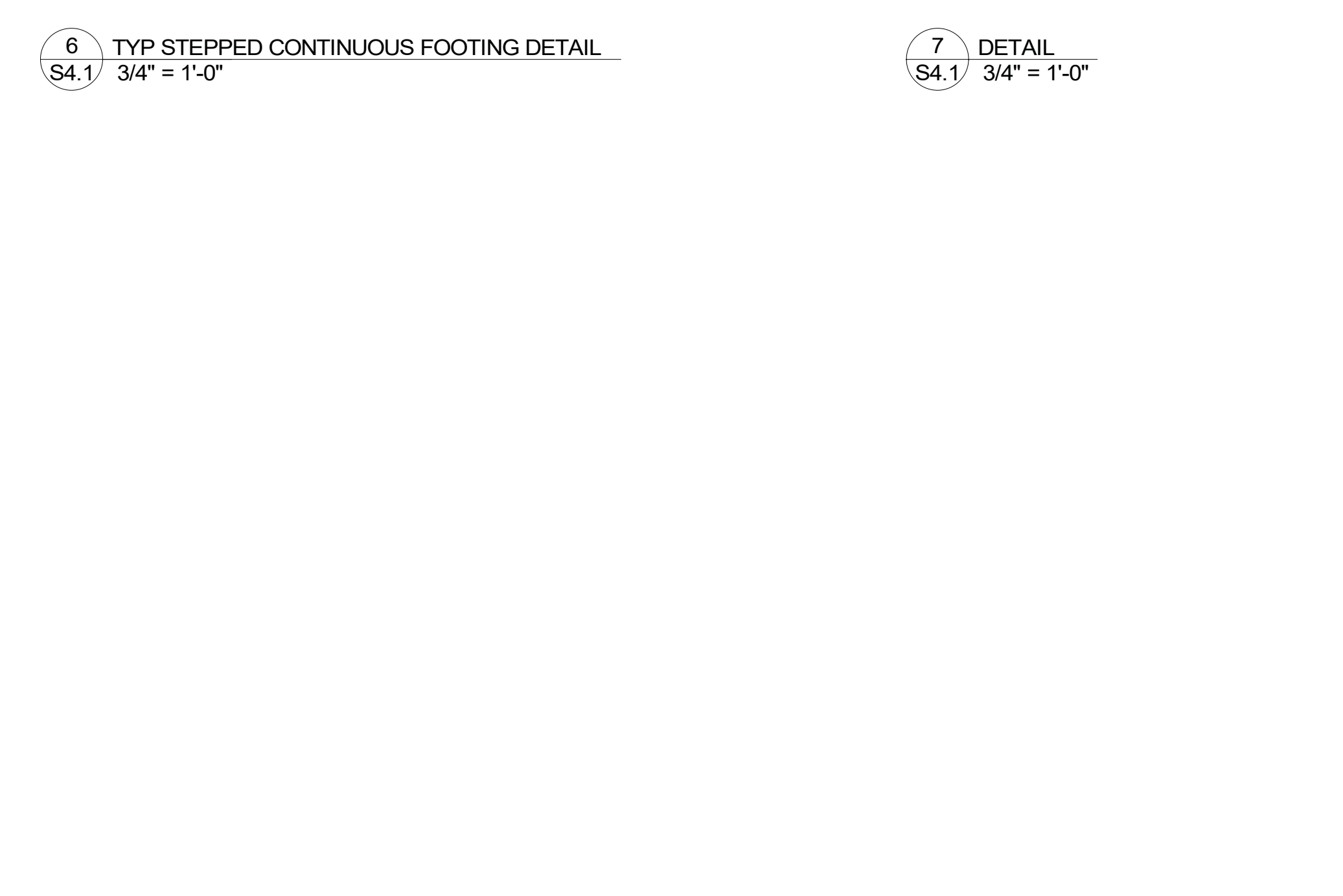
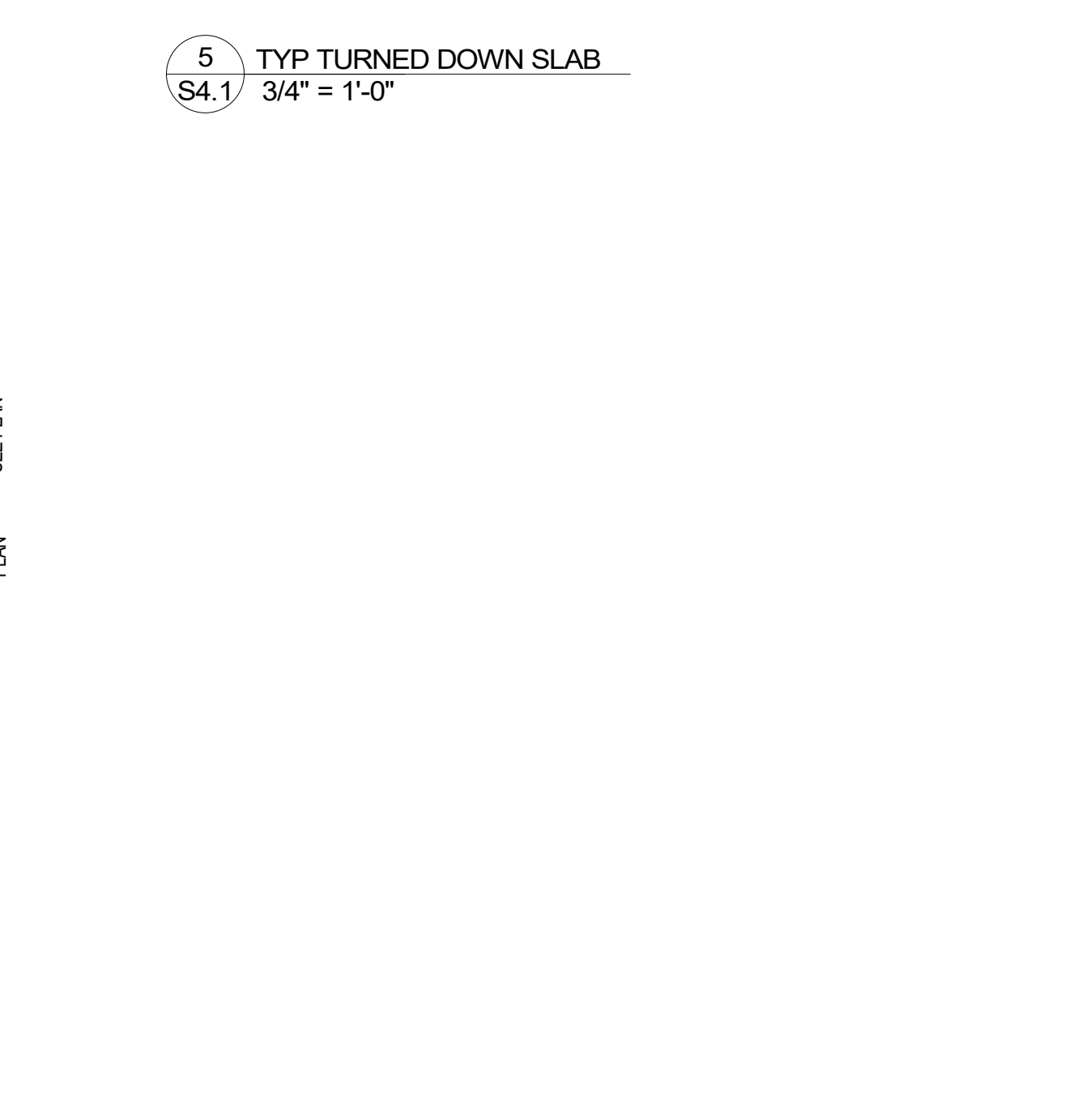
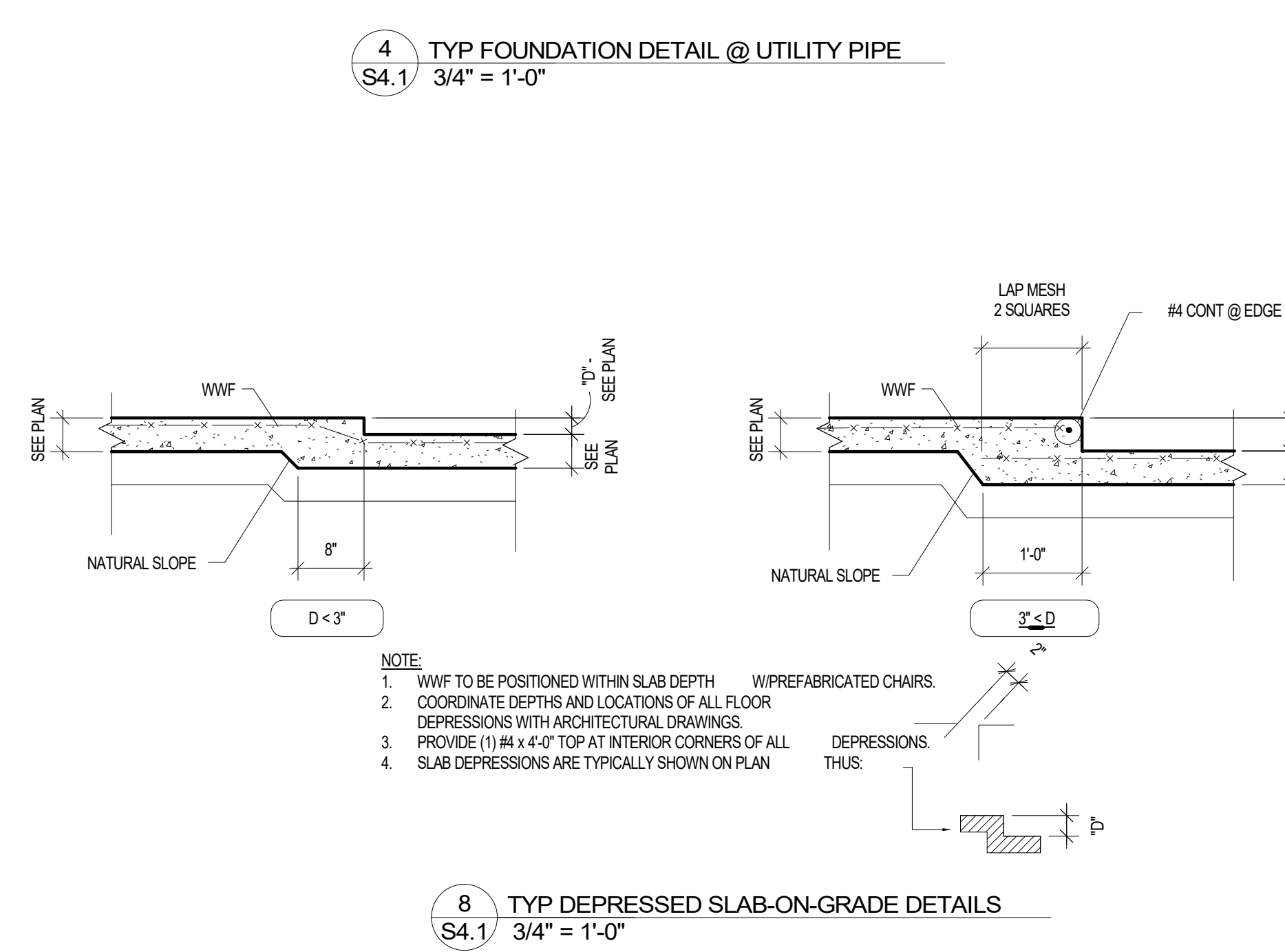
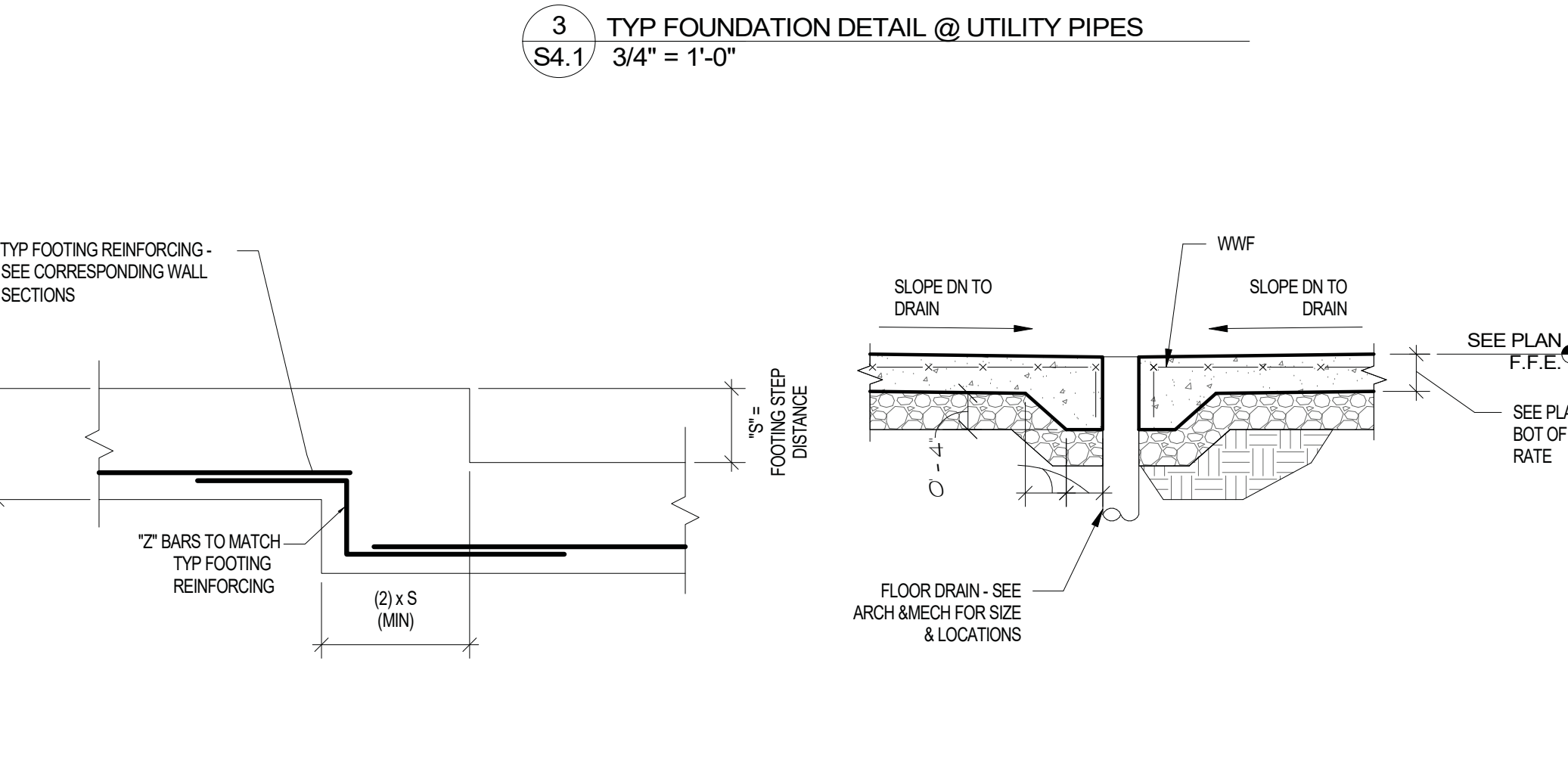
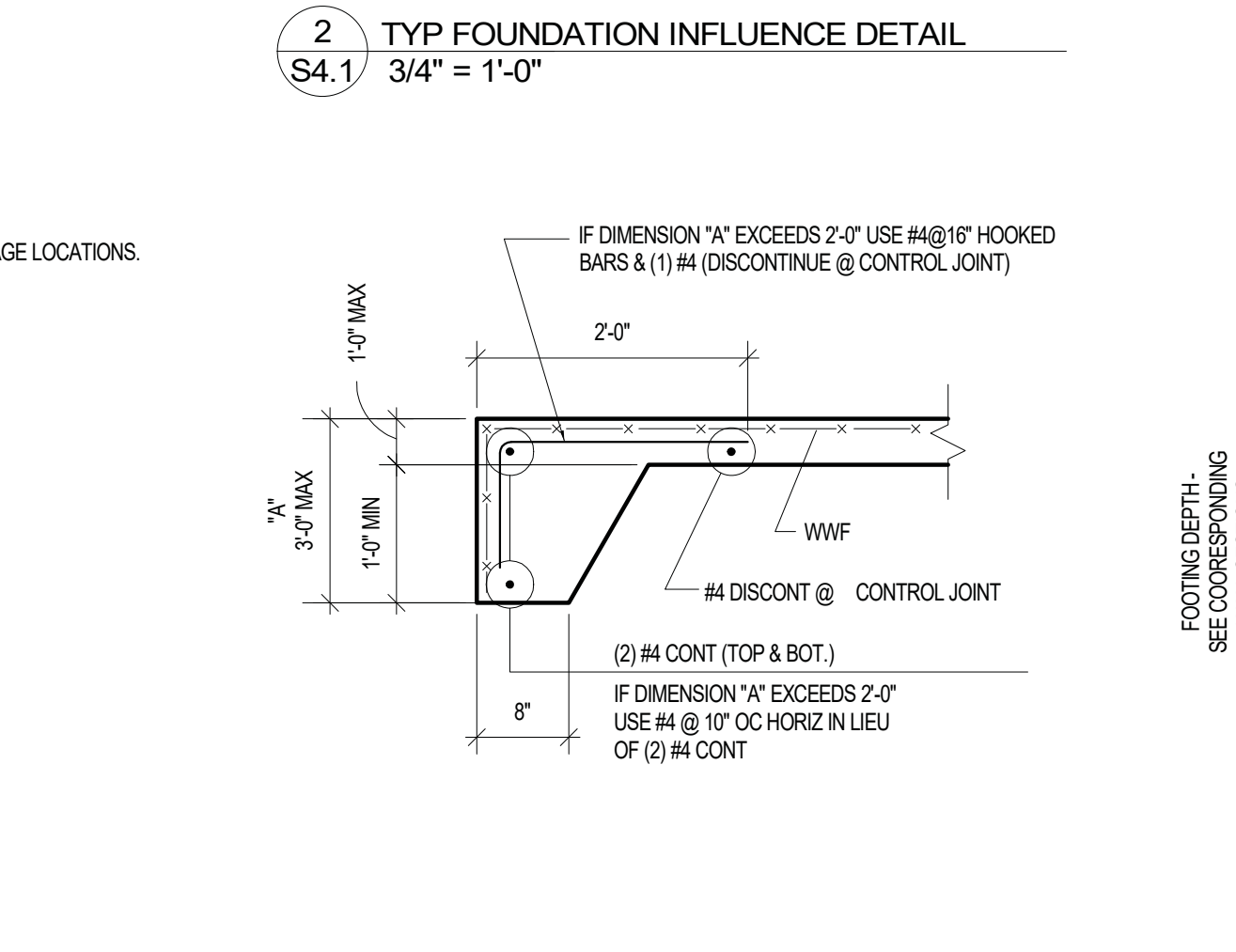
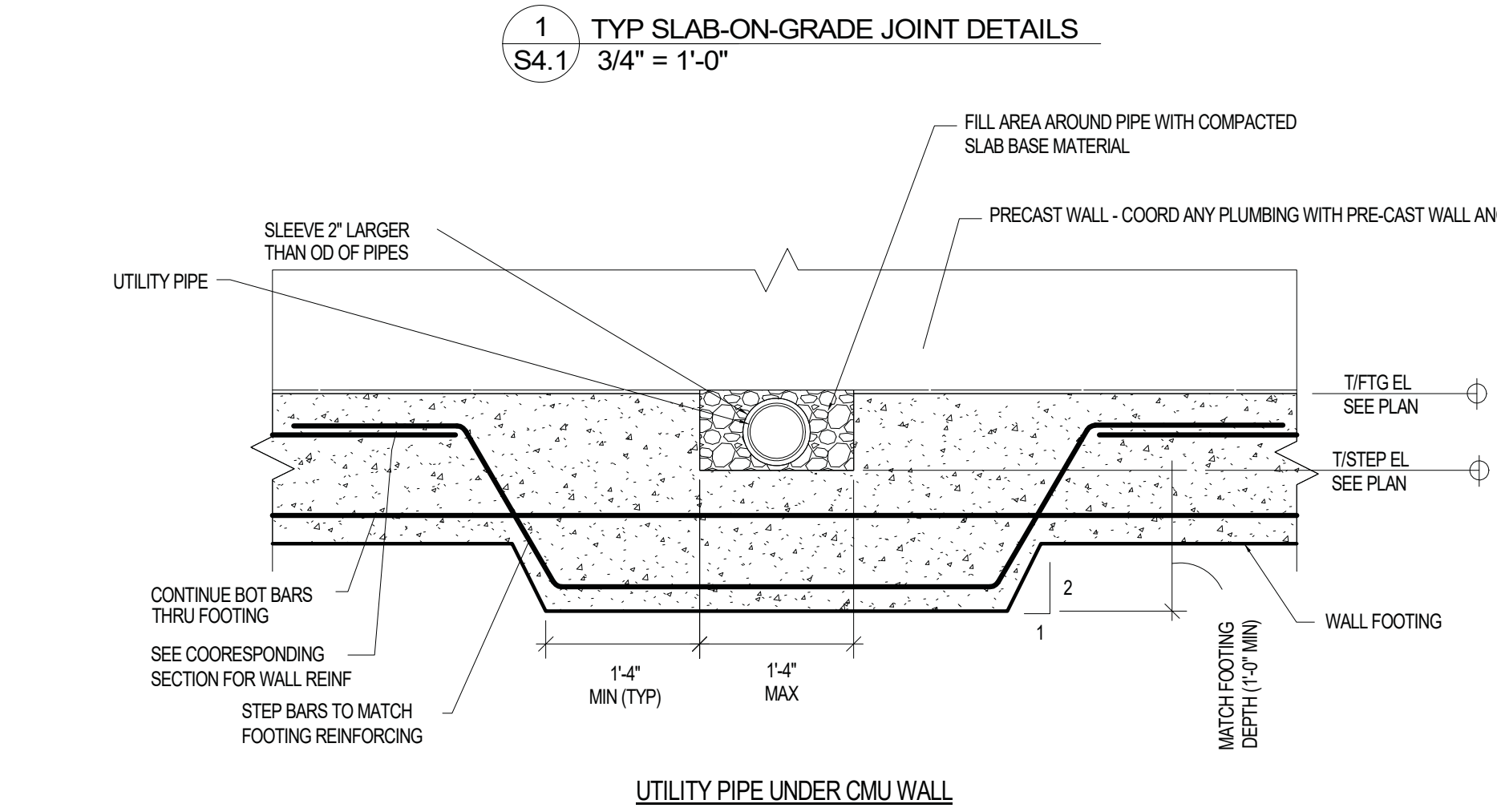
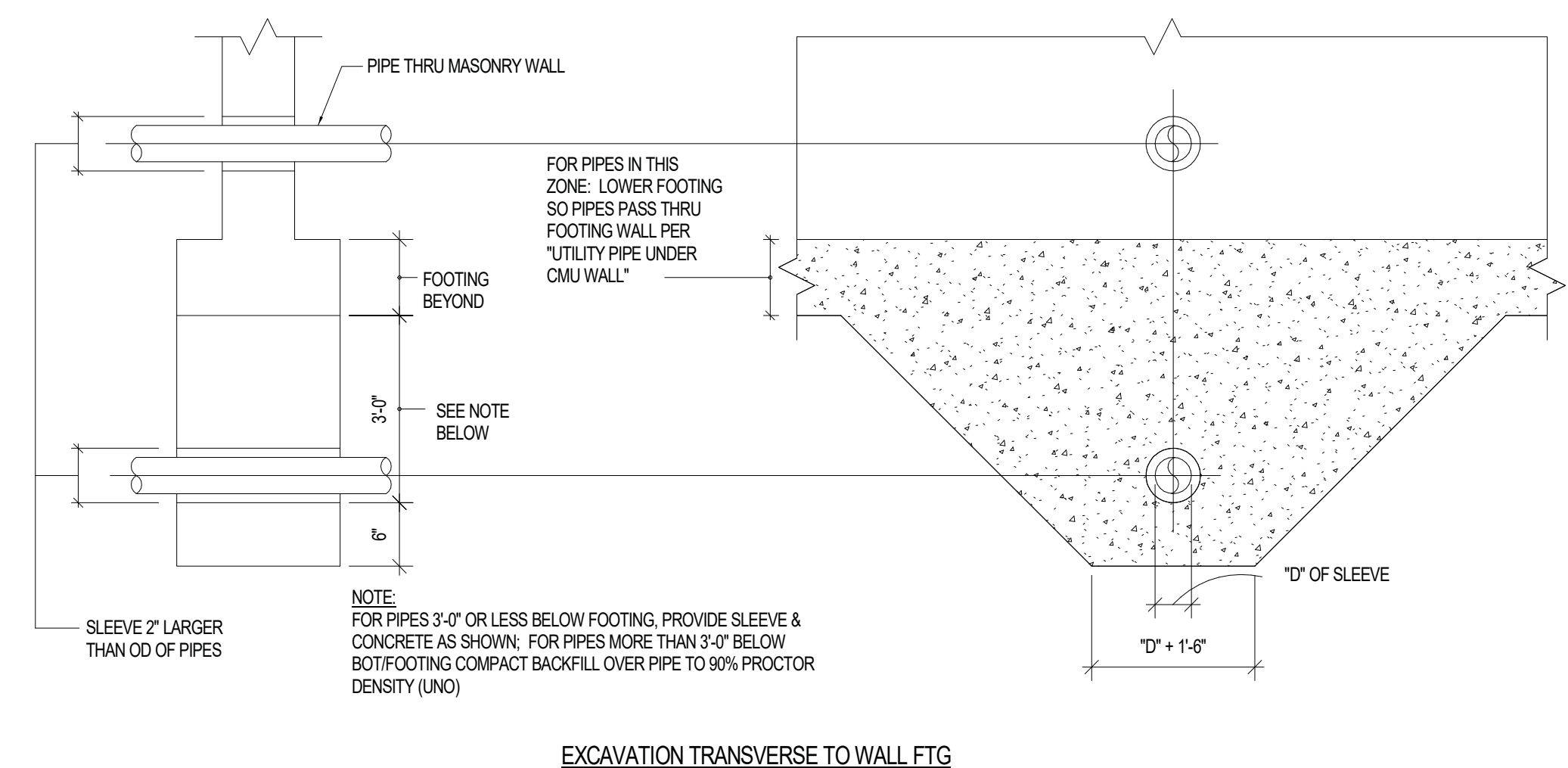
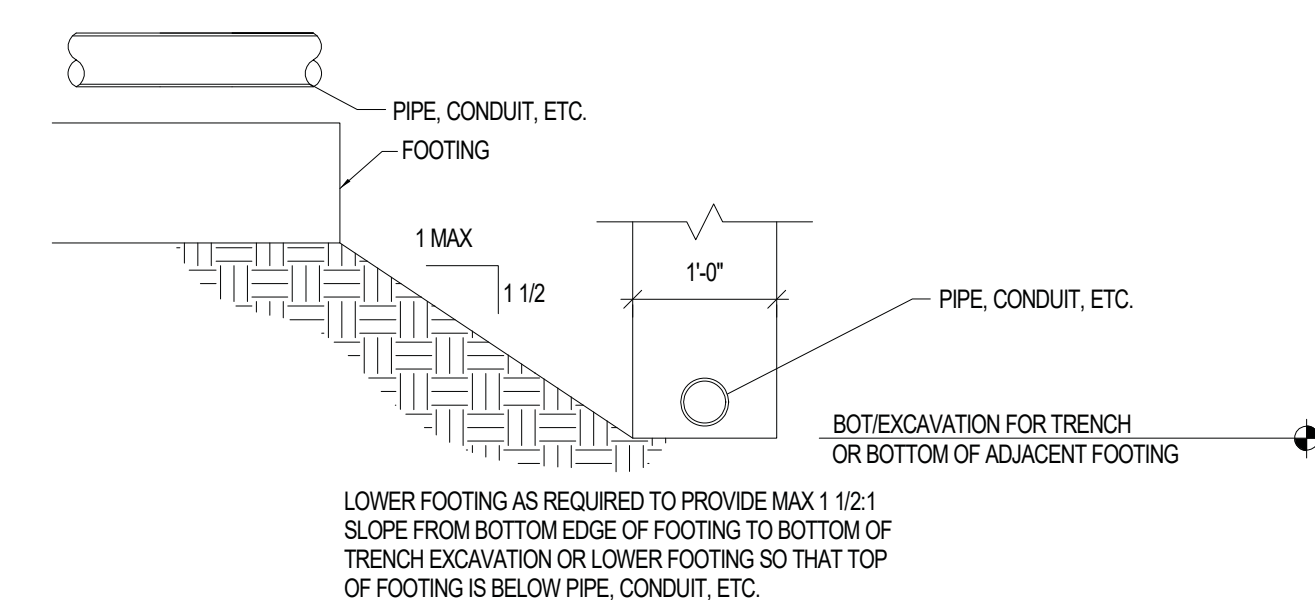
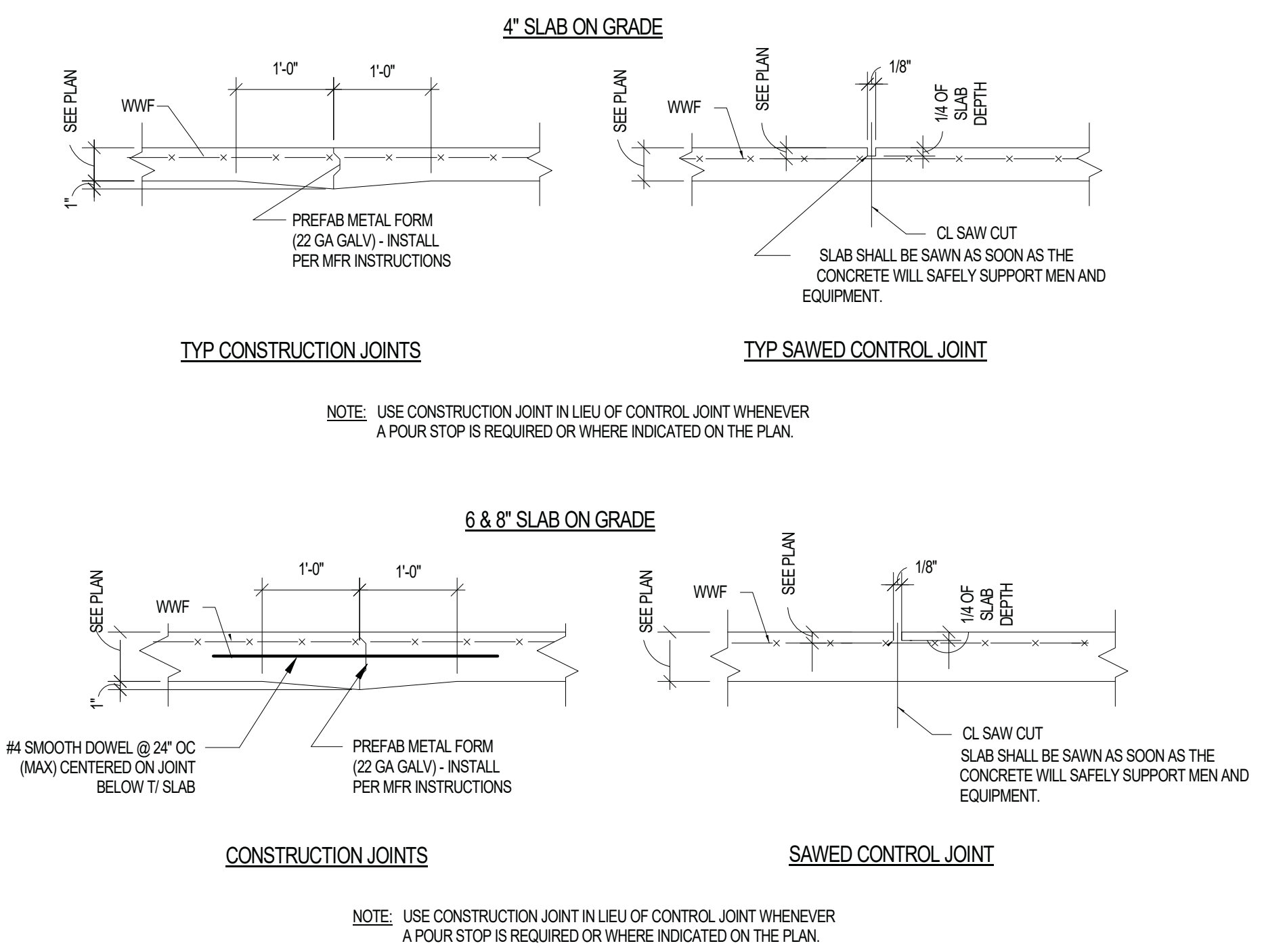
2 SECTION  
 S3.6 3/4" = 1'-0"



3 ELEVATION  
 S3.6 1/2" = 1'-0"

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GILLEM PUBLIC SAFETY FACILITY		PRECISION Planning Inc. planners • engineers • architects • surveyors 400 Pike Boulevard, Lawrenceville, Ga 30046 770.338.8000 • www.ppi.us		PROJECT
SECTIONS AND DETAILS		DESIGN ADC	DRAWN ADC	CHECKED WJP
DATE: 10/26/21 NO. DESCRIPTION: 10/26/21 RELEASED FOR BID		SHEET TITLE		RELEASE
10/26/2021 DATE	A21-006 PROJ. NUMBER	FILE NAME	FILE NUMBER	
S3.6				



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GILLEM PUBLIC SAFETY FACILITY  
 2090 Anvil Block Road  
 Forest Park, GA 30294

TYPICAL FOUNDATION DETAILS

DESIGN	ADC	DRAWN	ADC	CHECKED	WJP
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SHEET TITLE PROJECT

DATE	NO. DESCRIPTION
10/26/21	RELEASED FOR BID

10/26/2021	DATE
A21-006	PROJ. NUMBER
	FILE NAME
	FILE NUMBER

S4.1

RELEASE

SYMBOL	DESCRIPTION
	RECTANGULAR AIR DUCT - FIRST DIMENSION IS SIDE SHOWN
	ROUND DUCT (A <sup>a</sup> ) OR FLAT OVAL (AxB)
	LINED DUCTWORK, DIMENSIONS ARE OUTER METAL TO OUTER METAL
	AIR DUCT FLEXIBLE CONNECTOR
	SUPPLY OR OUTSIDE AIR RECTANGULAR DUCT RISE OR DROP
	RETURN AIR RECTANGULAR DUCT RISE OR DROP
	EXHAUST AIR RECTANGULAR DUCT RISE OR DROP
	45° BRANCH TAKE-OFF WITH SPLITTER DAMPER AND CONTROL ROD
	SINGLE BLADE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER
	SMOKE DETECTOR
	BACKDRAFT DAMPER
	SQUARE ELBOW WITH TURNING VANES
	DUCT TRANSITION, RECTANGULAR TO ROUND OR OVAL
	DUCT TRANSITION, RECTANGULAR TO RECTANGULAR
	FLEX DUCT AT DIFFUSER
	CONCENTRIC REDUCER
	PIPE UNION
	PIPE RISE
	PIPE DROP
	CAP ON END OF LINE
	BALL VALVE
	STRAINER
	SIGHT GLASS
	PIPE FLOW ARROW
	GRADE ARROW-INDICATES RISE OR DROP IN DUCT OR PIPE
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAIN
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	THERMOSTAT
	EMERGENCY SHUTDOWN SWITCH
	CARBON MONOXIDE SENSOR
	NITROGEN OXIDE SENSOR
	ABOVE FINISHED FLOOR
	BOTTOM OF STRUCTURE

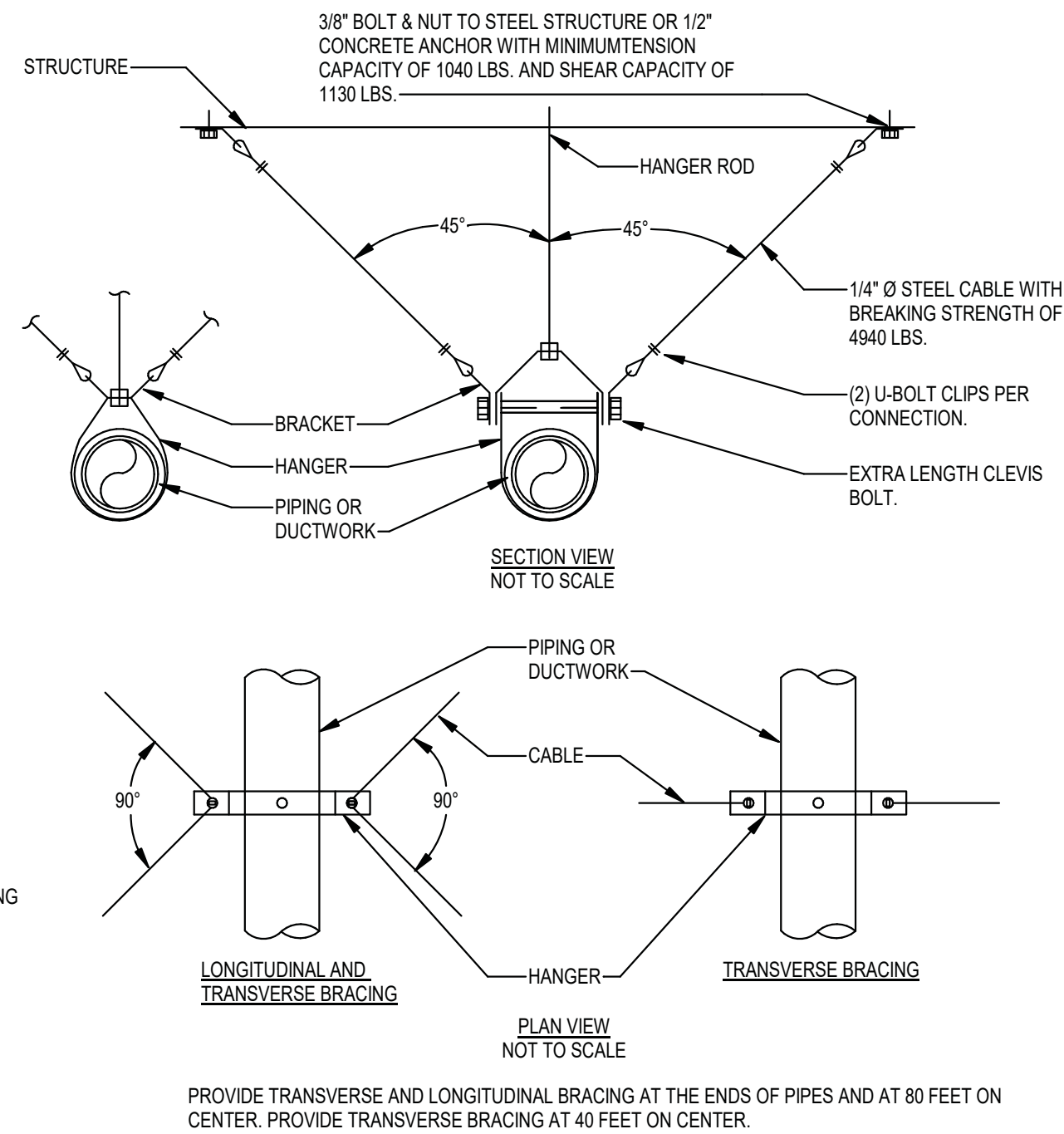
GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY.  
 A. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS AND ELEVATIONS.  
 B. SEE STANDARD DETAILS AND MANUFACTURER'S RECOMMENDATIONS FOR FITTING REQUIRED AT EQUIPMENT LOCATIONS AND CLEARANCES REQUIRED FOR PROPER INSTALLATION, OPERATION AND RECOMMENDED ACCESS.
- COORDINATE HVAC EQUIPMENT (INCLUDING DUCTWORK AND PIPING) WITH PLUMBING AND FIRE PROTECTION PIPING, LIGHTING FIXTURES, STRUCTURE AND ARCHITECTURAL CEILING HEIGHTS.
- EQUIPMENT LAYOUT AND ACCESS IS BASED ON DESIGN BASIS OF MECHANICAL EQUIPMENT, AS LISTED ON THE SCHEDULES AND SPECIFICATIONS. SHOP DRAWINGS SHALL BE PROVIDED TO SHOW LAYOUT INCLUDING MANUFACTURER REQUIRED ACCESS.
- WHERE EQUIPMENT, FINISHES AND/OR STRUCTURE IS DAMAGED DURING CONSTRUCTION OR INSTALLATION OF EQUIPMENT, DUCTWORK OR PIPING, THE CONTRACTOR SHALL REPAIR THE DAMAGED AREA TO MATCH THE PREVALENT CONDITIONS.
- PROTECT ALL MATERIALS, EQUIPMENT, BUILDING, BUILDING FINISHES AND CONTENTS FROM WEATHER, DAMAGE AND DEBRIS ACCUMULATION.
- CAP ALL DUCTWORK AND PIPING ENDS AND OPENINGS DURING CONSTRUCTION TO PREVENT ENTRY OF DEBRIS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING THE RECOMMENDED CLEARANCE AND SERVICE ACCESS. EQUIPMENT REQUIRING REGULAR SERVICE LOCATED ABOVE ACCESSIBLE CEILING OR ACCESS PANEL SHALL BE WITH BOTTOM OF UNIT ACCESSIBLE FROM CEILING PANEL, NOT TO EXCEED 24" ABOVE CEILING.
- MAKE FINAL CONNECTIONS TO ALL EQUIPMENT, INCLUDING EQUIPMENT PROVIDED UNDER OTHER DIVISIONS.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED PER SPECIFICATIONS.
- THIS BUILDING HAS CONCEALED AIR PLENUMS ABOVE CEILINGS. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE, PLENUM RATED, OR HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 IN ACCORDANCE WITH ASTM E84.
- GENERAL CONTRACTOR SHALL HIRE A THIRD-PARTY CONTRACTOR TO CONDUCT TEST AND BALANCE ON THE HVAC SYSTEM.
- COORDINATE ALL LAY-IN CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL CEILING PLANS. IF CONFLICT EXISTS CONTRACTOR SHALL SUBMIT RFI TO THE ARCHITECT FOR CLARIFICATION.
- ROUTE DUCTWORK AS TIGHT TO STRUCTURE AS POSSIBLE, UNLESS OTHERWISE NOTED.
- ALL DUCT AND PIPING DROPS IN WALLS AND CHASES SHALL BE SECURED TO THE WALL.
- FLEXIBLE DUCTWORK SHALL NOT BE PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN EXHAUST SYSTEMS AT ALL.
- SINGLE BLADE DAMPER SHALL BE PROVIDED FOR IN THE FOLLOWING LOCATIONS:  
 A. IN THE RUNOUT FOR S-1 TYPE DIFFUSERS.  
 B. IN THE EXHAUST RUN-OUT FROM EACH E-1 TYPE GRILLE.
- DIFFUSER AND GRILLE RUNOUTS (TO ALL DIFFUSERS AND GRILLES) SHALL BE SAME SIZE AS DIFFUSER/GRILLE NECK UNLESS NOTED OTHERWISE.
- LAY-IN CEILING DIFFUSERS:  
 A. PROVIDE INSULATED FLEXIBLE DUCT WITH SPIN-IN AND SINGLE BLADE DAMPER AT DIFFUSER TAKE-OFF.  
 B. MAXIMUM FLEXIBLE DUCT RUN TO DIFFUSERS SHALL NOT EXCEED 7 FEET. WHEN LENGTH EXCEEDS 7 FEET, PROVIDE INSULATED GALVANIZED STEEL RUNOUT.  
 C. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S BEST PRACTICES/RECOMMENDATIONS. CENTERLINE RADIUS FOR BENDS SHALL NOT BE LESS THAN ONE DUCT DIAMETER.
- ALL SUPPLY DIFFUSERS SHALL BE TYPE S-1 AND ALL RETURN GRILLES SHALL BE TYPE R-1 UNLESS NOTED OTHERWISE.
- WALL-MOUNTED THERMOSTATS AND SENSORS SHALL BE MOUNTED AT 4'-0" AFF UNLESS NOTED OTHERWISE.
- EXPOSED DUCT IN OCCUPIED AREAS SHALL BE PROVIDED WITH PAINT-GRIP FINISH. ALL EXPOSED DUCT SHALL BE INSULATED AS LISTED IN SPECIFICATIONS.
- EXPOSED PIPING SHALL BE PAINTED OR PROVIDED WITH INSULATION FINISH AS NOTED IN SPECIFICATIONS.
- CONTRACTOR SHALL PAINT ALL DUCTWORK VISIBLE THROUGH CEILING OPENINGS AND/OR SUPPLY AND RETURN AIR OPENINGS AND GRILLES FLAT BLACK.
- TEMPERATURE, HUMIDITY AND CO2 SENSORS SHALL BE LOCATED IN THE ROOM SERVED/SHOWN IN. LOCATION SHALL BE ADJACENT TO ROOM MAIN ENTRANCE LIGHT SWITCHES.
- CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED AS NOTED. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC. WHERE INSTALLED IN HVAC PLENUMS, COPPER SHALL BE USED IN LIEU OF PVC.
- CONTRACTOR SHALL PROVIDE A CONSTRUCTION AIR QUALITY PLAN PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL FLUSH OUT BUILDING FOR TWO (2) WEEKS PRIOR TO OCCUPANCY/CO (OPEN OUTSIDE AIR DAMPERS AND RUN SYSTEM 24/7 FOR TWO WEEKS)
- ANY EQUIPMENT LOCATED ON ROOF TOPS WITH PARAPET ROOF LESS THAN 48" HIGH SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ROOF EDGE.

- PROVIDE SEISMIC RESTRAINTS ON ALL FLEXIBLE AND FLEXIBLY MOUNTED DUCTWORK, CONDENSATE PIPING, AND EQUIPMENT EXCEPT THAT SEISMIC RESTRAINTS SHALL NOT BE REQUIRED PER THE EXCEPTIONS GIVEN IN SECTION 23 0548 OF THE SPECIFICATIONS.
- SEISMIC RESTRAINTS ARE SIZED IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE 2012 FOR SEISMIC RESTRAINT MANUAL, 1ST EDITION FOR A SEISMIC HAZARD LEVEL "C". OTHER METHODS OF RESTRAINT IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL ARE ACCEPTABLE.
- SEISMIC RESTRAINTS FOR FLEXIBLY MOUNTED PIPING AND DUCTWORK SHALL BE PROVIDED AS SHOWN IN "SEISMIC PIPE RESTRAINT DETAIL".
- ALL BUILDING HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT, DUCTWORK, PIPING AND ASSOCIATED HANGERS AND RESTRAINTS ARE REQUIRED TO REMAIN OPERABLE FOLLOWING THE DESIGN EARTHQUAKE, AND SHALL BE CONSIDERED DESIGNATED SEISMIC EQUIPMENT.
- ALL SEISMIC BRACING SHALL BE ATTACHED TO THE BOTTOM CHORD OF THE ROOF JOIST.

**HVAC SEISMIC RESTRAINT DETAIL AND NOTES**  
 SCALE: NO SCALE

NOTE: THIS BUILDING HAS BEEN CLASSIFIED AS BUILDING OCCUPANCY MIXED USE (R-2, S-2, B), SITE CLASS D, AND SEISMIC DESIGN CATEGORY C. PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL SYSTEMS SIZED IN ACCORDANCE WITH GEORGIA STATE MINIMUM BUILDING CODE 2012 PER SPECIFICATION SECTION 23 05 48.



## COMCHECK

COMcheck Software Version 4.1.5.3  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code:	2015 IECC
Project Title:	Forest Park Gillem Public Safety Facility
Location:	Forest Park (Clayton), Georgia
Climate Zone:	3a
Project Type:	New Construction

Construction Site: Land Lots 213 and 212, District 12 Forest Park, GA 30349  
 Owner/Agent: \_\_\_\_\_ Designer/Contractor: \_\_\_\_\_

**Additional Efficiency Package(s)**  
 Credits: 1.0 Required 0.0 Proposed

**Mechanical Systems List**

Quantity	System Type & Description
1	HVAC System 1 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 85.00% EI, Required Efficiency: 80.00% EI or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 25 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 19.40 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 1   RTU-1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 675 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
1	HVAC System 2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 85.00% EI, Required Efficiency: 80.00% EI or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 30 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 20.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 2   RTU-2 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 1920 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
1	HVAC System 3 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 85.00% EI, Required Efficiency: 80.00% EI or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 30 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 20.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 3   RTU-3 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 3 Supply, Constant Volume, 2820 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
1	HVAC System 4 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 85.00% EI, Required Efficiency: 80.00% EI or 78% AFUE Cooling: 1 each - Other, Capacity = 50 kBtu/h, Air-Cooled Condenser, Air Economizer No minimum efficiency requirement applies Fan System: FAN SYSTEM 4   TERV-1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 4 Supply, Constant Volume, 2275 CFM, 1.5 motor nameplate hp, 0.0 fan efficiency grade FAN 5 Exhaust, Constant Volume, 1125 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
1	HVAC System 6 (Single Zone) Heating: 1 each - Duct Furnace, Electric, Capacity = 34 kBtu/h No minimum efficiency requirement applies Fan System: FAN SYSTEM 5   KSF-1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 1350 CFM, 0.3 motor nameplate hp, 50.0 fan efficiency grade
1	HVAC System 4 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 85.00% EI, Required Efficiency: 80.00% EI or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 20.00 SEER, Required Efficiency: 14.00 SEER Fan System: FAN SYSTEM 6   RTU-4 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 8 Supply, Constant Volume, 700 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade

**Mechanical Compliance Statement**  
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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<p>PRECISION                  Planning Inc.                  planners • engineers • architects • surveyors                  400 Pike Boulevard, Lawrenceville, GA 30046                  770-338-8000 • www.ppi.us</p>	<p>GILLEM PUBLIC                  SAFETY BUILDING                  2000 Anvil Block Rd.                  Forest Park, GA 30294</p>	<p>PROJECT                  SHEET TITLE</p>	<p>RELEASE</p>	<p>STAMP</p>
<p>DATE: 10/26/21                  NO. DESCRIPTION: RELEASED FOR BID</p>				
10/26/2021	A21-006	DESIGN SP	DRAWN SP	CHECKED TLN
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER	FILE NUMBER
M0.1				

**Johnson, Spellman & Associates, Inc.**  
 350 Research Court, Suite 130  
 Peachtree Corners, GA 30092  
 770-447-4555 www.jsaoc.com

### ROOFTOP UNIT SCHEDULE

MARK	SERVES	TYPE	DUCT CONNECTIONS	NOMINAL TONS	IEER/SEER	FAN CFM	FAN ESP	FAN HP	MIN OSA CFM	MAX OSA CFM	COOLING COIL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL EAT DB/WB	COOLING COIL LAT DB/WB (LEAVING UNIT)	HEATING CAPACITY INPUT/OUTPUT	HEATING EAT	HEATING LAT DB	FILTERS TYPE	RTU VOLTAGE	DESIGN BASIS	REMARKS
RTU-1	BUNKS	GAS HEAT/ELEC COOLING	VERTICAL	2 TON	11.5/14.0	800	0.8"	0.33	0	0	24.6 MBH	-	80°Fdb/67°Fwb	57.5°Fdb/57.1°Fwb	60.0/48.0 MBH	70°Fwb	-	2" MERV - 11 FILTER	208V/1PH	TRANE 4YCC4024	(1)(2)(4)(5)(7)
RTU-2	OFFICER BUNK, COMPANY OFFICE, FITNESS, KITCHEN, LAUNDRY, SHOWERS	GAS HEAT/ELEC COOLING	VERTICAL	5 TON	12.0/14.0	1,920	1.0"	1.50	0	0	59.5 MBH	48.1 MBH	80°Fdb/67°Fwb	57.2°Fdb/57.2°Fwb	80.0/64.8 MBH	70°Fwb	101.6°Fwb	2" MERV - 13 FILTER	460V/3PH	TRANE YSC060	(1)(2)(4)(5)(7)(8)
RTU-3	DAYROOM, DINING, TRIAGE, LOBBY	GAS HEAT/ELEC COOLING	VERTICAL	5 TON	12.0/14.0	2,400	1.0"	1.50	0	0	61.6 MBH	55.3 MBH	80°Fdb/67°Fwb	59.0°Fdb/59.0°Fwb	80.0/64.8 MBH	70°Fwb	95.3°Fwb	2" MERV - 13 FILTER	460V/3PH	TRANE YSC060	(1)(2)(3)(4)(5)(7)(8)
RTU-4	TURN-OUT GEAR, STORAGE, DECON'S ROOM	GAS HEAT/ELEC COOLING	VERTICAL	5 TON	13.6/15.9	700	1.0"	1.00	700	700	58.6 MBH	35.2 MBH	95°Fdb/75°Fwb	49.7°Fdb/49.1°Fwb	50.0/40.0 MBH	9°Fwb	61.7°Fwb	2" MERV - 13 FILTER	460V/3PH	TRANE OABD060E4	(1)(2)(5)(7)(8)(9)
RTU-5	PATROL, WORK ROOM, TOILETS	GAS HEAT/ELEC COOLING	VERTICAL	5 TON	14.0/14.0	2,400	0.8"	1.50	120	160	52.1 MBH	51.9 MBH	72.5°Fdb/58.4°Fwb	52.8°Fdb/50.4°Fwb	100.0/81.0 MBH	55°Fwb	86.6°Fwb	2" MERV - 11 FILTER	460V/3PH	TRANE YSC060	(1)(2)(5)(6)(7)(8)

1. PROVIDE INSULATED FACTORY SEISMIC RESTRAINT ROOF CURB, THRU-BASE SINGLE POINT POWER CONNECTION WITH FACTORY BREAKER/DISCONNECT, SPACE THERMOSTAT WITH HUMIDITY SENSOR AND CLEAR LOCKABLE COVER, OPEN PROTOCOL CONTROLLER, AND POWERED CONVENIENCE OUTLET. CONTROLLER SHALL ACCEPT OCCUPIED/UNOCCUPIED INPUT FROM TIME-CLOCK.
2. INSTALL UNITS WITH REQUIRED CLEARANCES FOR SERVICE AND MAINTENANCE.
3. UNIT SHALL BE PROVIDED WITH FACTORY MOUNTED SUPPLY AND RETURN SMOKE DETECTORS.
4. OUTSIDE AIR SHALL BE PROVIDED TO THE BUILDING BY THE TERV-1 AND DUCTED DIRECTLY TO SPACES.
5. COOLING CAPACITIES BASED ON 95°F OUTDOOR AMBIENT TEMPERATURE.
6. PROVIDE ECONOMIZER WITH POWERED EXHAUST.
7. PROVIDE UNIT WITH UV LIGHTS AT CURB AND BI-POLAR IONIZATION.
8. PROVIDE INTEGRAL CONVENIENCE RECEPTACLES FOR NEW RTUS.
9. DIGITAL SCROLL COMPRESSOR ON FIRST CIRCUIT.

### ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SERVES	LOCATION	ENTHALPY WHEEL SECTION						EXHAUST FAN				MIN. SUMMER EFFICIENCY	VOLTAGE	EER	DESIGN BASIS	OPERATING WEIGHT	REMARKS	
			CFM	ESP	TYPE	HP	EAT DB/WB (SUMMER) 95°F / 78°F (WINTER) 17°F / 15°F	LAT DB/WB (SUMMER) 82.2°F / 69.4°F (WINTER) 54.1°F / 46.0°F	CFM	ESP	TYPE	HP							ERV UNIT LAT DB/WB (SUMMER) 82.2°F / 69.2°F (WINTER) 54.4°F / 46.7°F
TERV-1	FIRE STATION OUTSIDE AIR	ROOF	2,300	1.5"	BACKWARDS CURVED PLENUM	2.0	(SUMMER) 95°F / 78°F (WINTER) 17°F / 15°F	(SUMMER) 82.2°F / 69.4°F (WINTER) 54.1°F / 46.0°F	1,106	0.8"	BACKWARD CURVED PLENUM FAN	1	(SUMMER) 82.2°F / 69.2°F (WINTER) 54.4°F / 46.7°F	94%	208v/3ø	14.2	TRANE HORIZON D012	3,944	(1) THRU (11)

1. PROVIDE MERV-13 FILTERS FOR BOTH SUPPLY AND EXHAUST AIRSTREAMS TO PROTECT ENERGY RECOVERY WHEEL.
2. BASED ON SUMMER CONDITIONS: 95°F DB/78°F WB ENTERING OSA AND 78°F DB/66°F WB ENTERING EXHAUST AIR.
3. BASED ON WINTER CONDITIONS: 17°F DB ENTERING OSA AND 68°F/55°F WB ENTERING EXHAUST AIR.
4. PROVIDE STAINLESS STEEL NATURAL GAS FURNACE WITH 10:1 TURNDOWN CAPABLE OF 150 MBH INPUT/ 120 MBH OUTPUT.
5. PROVIDE HOT GAS REHEAT COIL WITH MODULATING GAS VALVE.
6. PROVIDE 6 ROW EVAPORATOR COIL, CAPABLE OF 100.5 MBH GROSS TOTAL COOLING CAPACITY/66.6 GROSS SENSIBLE COOLING CAPACITY.
7. PROVIDE WITH VERTICAL INLET/OUTLET DUCT CONNECTIONS AS SHOWN.
8. PROVIDE DIRECT DRIVE PLENUM FANS WITH VFD'S FOR BOTH SUPPLY AND EXHAUST.
9. UNIT SHALL BE PROVIDED WITH FACTORY MOUNTED SUPPLY AND EXHAUST SMOKE DETECTORS.
10. PROVIDE FACTORY MOUNTED SENSORS. PROVIDE FIELD MOUNTED HUMIDITY SENSOR.
11. DIGITAL SCROLL COMPRESSOR ON FIRST CIRCUIT.

### KITCHEN HOOD SCHEDULE

MARK	TYPE	HOOD CONFIGURATION	LENGTH	WIDTH	DEPTH	EXHAUST AIR REQUIREMENTS			SUPPLY AIR PLENUM REQUIREMENTS			FILTER TYPE	LIGHT REQUIREMENTS		LEFT SIDE UTILITY CABINET	RIGHT SIDE UTILITY CABINET	DESIGN BASIS	REMARKS
						CFM	T.S.P. @ COLLAR	COLLAR SIZE	CFM	T.S.P. @ COLLAR	COLLAR SIZE		TYPE	QUANTITY				
H-1	BAFFLE FILTER SINGLE WALL	WALL CANOPY	72"	48"	24"	1,350	0.462"	1 @ 13"x9"	1080	0.15"	1 @ 14"x10"	STAINLESS STEEL	CFL	3	-	-	ACCUREX XBEW	(1)(2)(3)(4)

1. PROVIDE ELECTRICAL AND FIRE ALARM CONNECTIONS FOR KITCHEN HOOD AND ASSOCIATED FANS.
2. PROVIDE ANSUL R102 WET CHEMICAL FIRE SUPPRESSION SYSTEM WITH INTEGRATED SOLENOID GAS SHUTOFF VALVE. COORDINATE ELECTRICAL AND FIRE ALARM CONNECTIONS FOR FIRE SUPPRESSION SYSTEM.
3. STATIC PRESSURES LISTED ARE RATINGS AT THE COLLAR.
4. MANUFACTURER SHALL BE ACCUREX OR APPROVED EQUAL.

### FAN SCHEDULE

MARK	SERVES	TYPE	CFM	ESP	HP	FAN RPM	INLET dBA (dB)	VOLTAGE	DESIGN BASIS	REMARKS
EF-1	APARATUS BAY EXHAUST	PROPELLER HOODED ROOF DIRECT DRIVE EXHAUST FAN	3,500	0.25"	1	1668	77	208v/1Ø	GREENHECK RE2-20-412-VG	(2)(3)(6)
EF-2	APARATUS BAY EXHAUST	PROPELLER HOODED ROOF DIRECT DRIVE EXHAUST FAN	3,500	0.25"	1	1668	77	208v/1Ø	GREENHECK RE2-20-412-VG	(2)(3)(6)
EF-3	APARATUS BAY EXHAUST	PROPELLER HOODED ROOF DIRECT DRIVE EXHAUST FAN	3,500	0.25"	1	1668	77	208v/1Ø	GREENHECK RE2-20-412-VG	(2)(3)(6)
EF-4	APARATUS BAY EXHAUST	PROPELLER HOODED ROOF DIRECT DRIVE EXHAUST FAN	3,500	0.25"	1	1668	77	208v/1Ø	GREENHECK RE2-20-412-VG	(2)(3)(6)
EF-5	DECON AREA	ROOF MOUNTED CENTRIFUGAL	665	0.75"	1/4	1430	53	115v/1Ø	GREENHECK G-100-VG	(1)(3)
EF-6	RESTROOMS AND JANITOR CLOSET	ROOF MOUNTED CENTRIFUGAL	225	0.5"	1/10	1553	55	115v/1Ø	GREENHECK G-080-VG	(1)(3)
EF-7	DECON VESTIBULE	ROOF MOUNTED CENTRIFUGAL	150	0.25"	1/60	1300	41	115v/1Ø	GREENHECK G-070-G	(1)(3)
EF-8	DECON VESTIBULE	ROOF MOUNTED CENTRIFUGAL	150	0.25"	1/60	1300	41	115v/1Ø	GREENHECK G-070-G	(1)(3)
EF-9	DECON VESTIBULE	ROOF MOUNTED CENTRIFUGAL	150	0.25"	1/60	1300	41	115v/1Ø	GREENHECK G-070-G	(1)(3)
SF-1	APARATUS BAY SUPPLY	PROPELLER HOODED ROOF DIRECT DRIVE SUPPLY FAN	3,500	0.25"	1	1577	79	208v/1Ø	GREENHECK RS2-20-413-VG	(1)(3)(4)(6)
SF-2	APARATUS BAY SUPPLY	PROPELLER HOODED ROOF DIRECT DRIVE SUPPLY FAN	3,500	0.25"	1	1577	79	208v/1Ø	GREENHECK RS2-20-413-VG	(1)(3)(4)(6)
SF-3	APARATUS BAY SUPPLY	PROPELLER HOODED ROOF DIRECT DRIVE SUPPLY FAN	3,500	0.25"	1	1577	79	208v/1Ø	GREENHECK RS2-20-413-VG	(1)(3)(4)(6)
SF-4	APARATUS BAY SUPPLY	PROPELLER HOODED ROOF DIRECT DRIVE SUPPLY FAN	3,500	0.25"	1	1577	79	208v/1Ø	GREENHECK RS2-20-413-VG	(1)(3)(4)(6)
KSF-1	KITCHEN HOOD SUPPLY	INLINE - DIRECT DRIVE	1,080	0.5"	1/3	1725	53	115v/1Ø	ACCUREX XID-100-A	(1)(3)(4)(5)
KEF-1	KITCHEN HOOD EXHAUST	ROOF MOUNTED UPBLAST RANGE HOOD - BELT DRIVE	1,350	1.0"	1/2	1725	66	115v/1Ø	ACCUREX XRUD-121-A	(1)(3)(5)
IH-1	KITCHEN HOOD INTAKE	ROOF MOUNTED INTAKE HOOD	1,080	-	-	-	-	-	GREENHECK FGI	-

1. DIRECT DRIVE.
2. BELT DRIVE.
3. FACTORY PROVIDED DISCONNECT SWITCH.
4. FAN SPEED CONTROLLER (MOUNTED ON FAN).
5. SWITCH MOUNTED ON FACE OF KITCHEN HOOD.
6. PROVIDE CONTROL INPUT FROM BAY DOORS.

### VRF/DUCTLESS SPLIT SYSTEM SCHEDULE

MARK	SERVES	TYPE	CFM	OUTSIDE AIR	FAN HORSPOWER	TOTAL COOLING CAPACITY	VOLTAGE	DESIGN BASIS	REMARKS
DSSA-1/DSSC-1	MECH/ELEC 157	HIGH WALL HEAT PUMP	460	0	0.15	12.0 MBH	208v/1ø	DAIKIN FTXG12	(1) THRU (6)
DSSA-2/DSSC-2	COMM 117	HIGH WALL HEAT PUMP	460	0	0.15	12.0 MBH	208v/1ø	DAIKIN FTXG12	(1) THRU (6)
DSSA-3/DSSC-3	MECH/ELEC 125	HIGH WALL HEAT PUMP	460	0	0.15	12.0 MBH	208v/1ø	DAIKIN FTXG12	(1) THRU (6)
DSSA-4/DSSC-4	I.T. 156	HIGH WALL HEAT PUMP	460	0	0.15	12.0 MBH	208v/1ø	DAIKIN FTXG12	(1) THRU (6)
VRFHP-1/DSSC-5	SHARED CONF. 147	SINGLE ZONE	635	0	-	18.0 MBH	208v/1ø	DAIKIN FXMQ18	(7) THRU (9)

1. COOLING CAPACITIES AT 75°F DB/67°F WB ENTERING AIR TEMPERATURE, 95°F AMBIENT.
2. PROVIDE MATCHING OUTDOOR CONDENSING UNIT TO PROVIDE CAPACITIES AS SCHEDULED; VOLTAGE OF OUTDOOR UNITS TO BE 208 V, SINGLE PHASE.
3. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES FROM ALL EQUIPMENT.
4. PROVIDE LOW AMBIENT WIND BAFFLE FOR OPERATION TO 0°F.
5. PROVIDE IN PAN TYPE ACCESSORY CONDENSATE PUMP (LITTLE GIANT EC SERIES OF EQUAL) WITH INDOOR UNIT.
6. INDOOR SPLIT SYSTEM DESIGN BASIS DAIKIN FTXG12HVJU.
7. INDOOR VRF DESIGN BASIS DAIKIN FXMQ18PAVJU.
8. PROVIDE DUCTED UNIT WITH REMOVABLE RA FILTER, 24" LIFT ON CONDENSATE DISCHARGE, AND AIRE REMOTE PROGRAMMABLE THERMOSTAT.
9. MANUFACTURER TO PROVIDE PIPING DIAGRAM, AND ALL ACCESSORIES REQUIRED TO PROVIDE COMPLETE MINI-VRF SYSTEM AS SHOWN.

### GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	DESCRIPTION	FINISH
S-1	24x24 STEEL SQUARE PLAQUE CEILING DIFFUSER, LAY-IN FRAME (BORDER TYPE 3), 4 WAY THROW, FULL FACE, WITH ROUND NECK, FACE PANEL, BACK CONE, NECK SIZE AS SHOWN. TITUS OMNI.	#26 WHITE ENAMEL
S-2	24x24 STEEL SQUARE PLAQUE CEILING DIFFUSER, GYPSUM BOARD FRAME, 4 WAY THROW, FULL FACE, WITH ROUND NECK, FACE PANEL, BACK CONE, NECK SIZE AS SHOWN. TITUS OMNI.	#26 WHITE ENAMEL
S-3	STEEL SIDE WALL SUPPLY GRILLE, DOUBLE DEFLECTION, FLANGE FRAME, 35" OFFSET BLADES, BLADES PARALLEL TO SHORT DIMENSION, O.B. DAMPER, TITUS 300RS.	#26 WHITE ENAMEL
S-4	ALUMINUM SPIRAL DUCT GRILLE, SIZE AS SHOWN, COUNTERSUNK SCREW HOLES, DOUBLE DEFLECTION WITH 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, FACE FRAME CURVED TO MATCH RADIUS OF THE DUCT SIZE SHOWN. GASKETED AT ALL OPENINGS. OPPOSED BLADE DAMPER. TITUS S300FS.	#26 WHITE ENAMEL
R-1	24x24 OR 24x12 AS SHOWN, PERFORATED RETURN GRILLE, FRAMELESS LAY-IN. TITUS PXP.	#26 WHITE ENAMEL
R-2	STEEL SIDE WALL RETURN GRILLE, 3/4" BLADE SPACING, FLANGE FRAME, 35" OFFSET BLADES, BLADES PARALLEL TO LONG DIMENSION. TITUS S500RL.	#26 WHITE ENAMEL
E-1	24x24 OR 24x12 AS SHOWN, 1/2"x1/2"x1/2" ALUMINUM EGG CRATE GRILLE, LAY-IN FRAME (BORDER TYPE 3) . PROVIDE EXHAUST AIR PLENUM BOX. DUCT CONNECTION SIZE AS NOTED. TITUS 50F.	#26 WHITE ENAMEL
E-2	24x24 OR 24x12 AS SHOWN, 1/2"x1/2"x1/2" ALUMINUM EGG CRATE GRILLE, GYPSUM BOARD FRAME . PROVIDE EXHAUST AIR PLENUM BOX. DUCT CONNECTION SIZE AS NOTED. TITUS 50F.	#26 WHITE ENAMEL
E-3	DUCT MOUNTED EXHAUST GRILLE	#26 WHITE ENAMEL

### GAS INFRARED HEATER SCHEDULE

MARK	LOCATION	TYPE	FUEL TYPE	CAPACITY INPUT (MBH)	HEATER LENGTH	TUBE LENGTH	MOUNTING HEIGHT	CLEARANCE (BENEATH MAX)	DESIGN BASIS	REMARKS
GIH-1	APARATUS BAY	GAS-FIRED INFARED TUBE HEATER	NATURAL GAS	60.0	10'-0"	30'-0"	17'-0" AFF	60"	SCHWANK STS-JZ-60-20	(1) THRU (5)
GIH-2	APARATUS BAY	GAS-FIRED INFARED TUBE HEATER	NATURAL GAS	60.0	10'-0"	30'-0"	17'-0" AFF	60"	SCHWANK STS-JZ-60-20	(1) THRU (5)
GIH-3	APARATUS BAY	GAS-FIRED INFARED TUBE HEATER	NATURAL GAS	60.0	10'-0"	30'-0"	17'-0" AFF	60"	SCHWANK STS-JZ-60-20	(1) THRU (5)
GIH-4	APARATUS BAY	GAS-FIRED INFARED TUBE HEATER	NATURAL GAS	60.0	10'-0"	30'-0"	17'-0" AFF	60"	SCHWANK STS-JZ-60-20	(1) THRU (5)

1. MOUNTING ANGLE SHALL BE TOWARDS CENTER OF APPARTUS BAY.
2. HANG UNIT WITH NON-COMBUSTIBLE CHAINS PER MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES FROM ALL OBJECTS.
4. PROVIDE JS-0568-KT TRANSFORMER RELAY KIT WITH JS-0569-WR VOLT THERMOSTAT.
5. 4" ROUND VENT TERMINAL THROUGH ROOF. SEE DETAIL ON SHEET M1.2.
6. PROVIDE HEATERS WITH U-SHAPE IN 10 FOOT SEGMENTS USING MANUFACTURER'S 90 DEGREE ELBOWS.

### ELECTRIC DUCT HEATER SCHEDULE

MARK	SERVES	DESCRIPTION	CFM	KW	MOUNTING	BASIS OF DESIGN	ELECTRICAL	REMARKS
EDH-1	KITCHEN HOOD MAKE-UP AIR	ELECTRIC DUCT HEATER	900	10	IN MAKE-UP AIR DUCT	MARKEL	208V/3ø	(1)(2)

1. MAKE TRANSITIONS NECESSARY TO INSTALL 18X10 DUCT HEATER IN KITCHEN MAKE-UP AIR DUCT.
2. SEE DETAIL SHEET FOR MOUNTING DIRECTIONS.

### OUTSIDE AIR CALCULATION

BASED ON ASHRAE 62.1 - 2016						
AREA	SQ FT	OA REQUIREMENTS	# OF OCCUPANTS	MAKE-UP AIR EXHAUST	OA CFM PROVIDED	EQUIPMENT PROVIDING OA
BUNKS	1,175	5 CFM/PERSON	10	65	730	TERV-1
RESTROOMS /SHOWERS	544	N/A	5	290	290	TERV-1
REPORT ROOM	177	15 CFM/PERSON	3	45	90	TERV-1
FITNESS	383	20 CFM/PERSON	6	120	120	TERV-1
LIVING	1,061	15 CFM/PERSON	15	300	650	TERV-1
TRIAEGE	131	5 CFM/PERSON	2	10	100	TERV-1
OFFICE 111	256	5 CFM/PERSON	1	5	100	TERV-1
KITCHEN	370	20 CFM/PERSON	3	60	100	TERV-1
LOBBY	143	5 CFM/PERSON	3	15	120	TERV-1
			TOTAL OA REQUIRED	910	2,300	TOTAL OA PROVIDED BY TERV-1

1. ALL OUTSIDE AIR PROVIDED BY TERV-1. OUTSIDE AIR IS TEMPERED USING HEAT RECOVERY WHEEL, DX COOLING COIL, HOT GAS REHEAT COIL, AND NATURAL GAS HEAT.
2. OUTSIDE AIR SHOWN FOR TOILETS IS REQUIRED FOR TOILET EXHAUST.
3. KITCHEN AND LIVING AREAS ARE INTERCONNECTED WITH NO DOOR SEPARATION. SEE FLOORPLANS FOR DETAILS.

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Forest Park, GA 30294

HVAC SCHEDULES  
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FILE NUMBER  
**M1.1**



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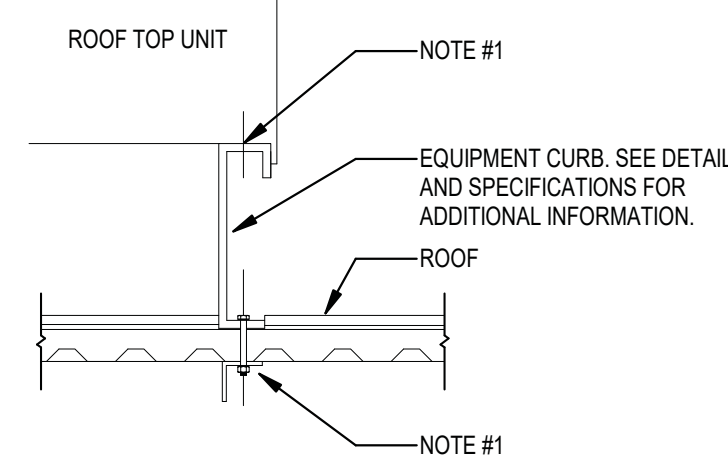
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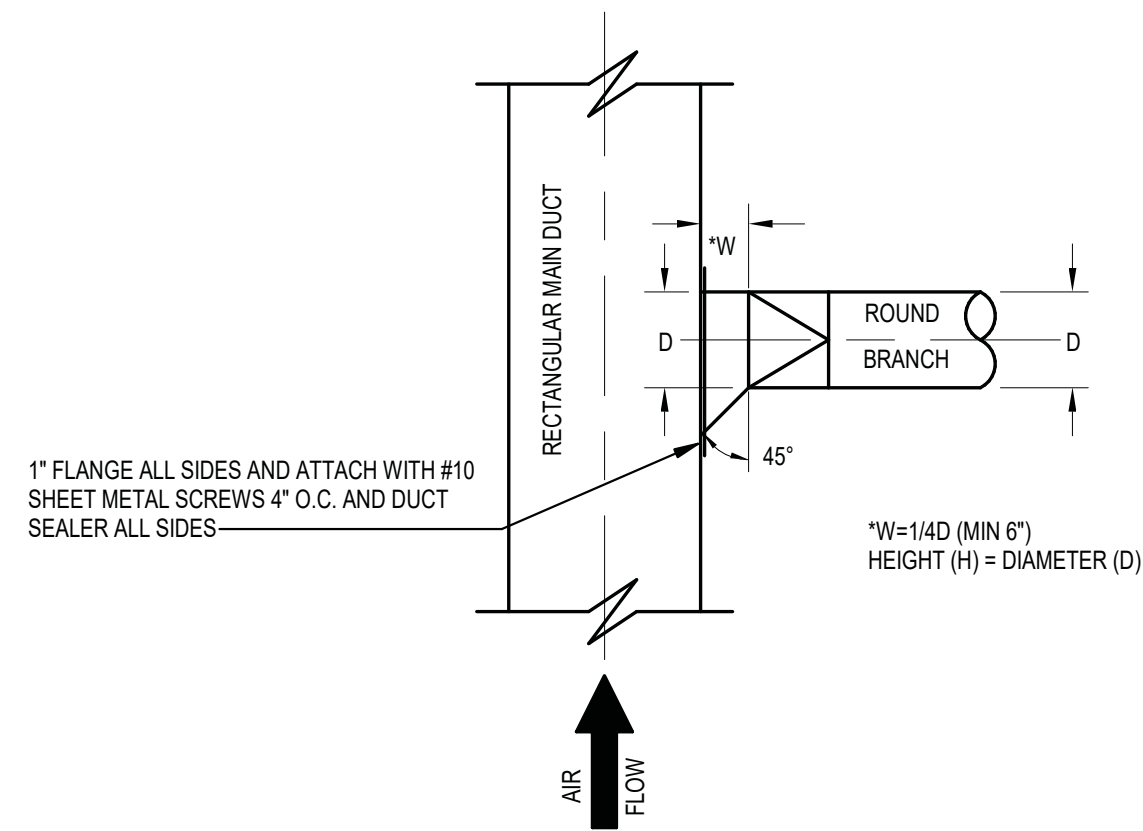
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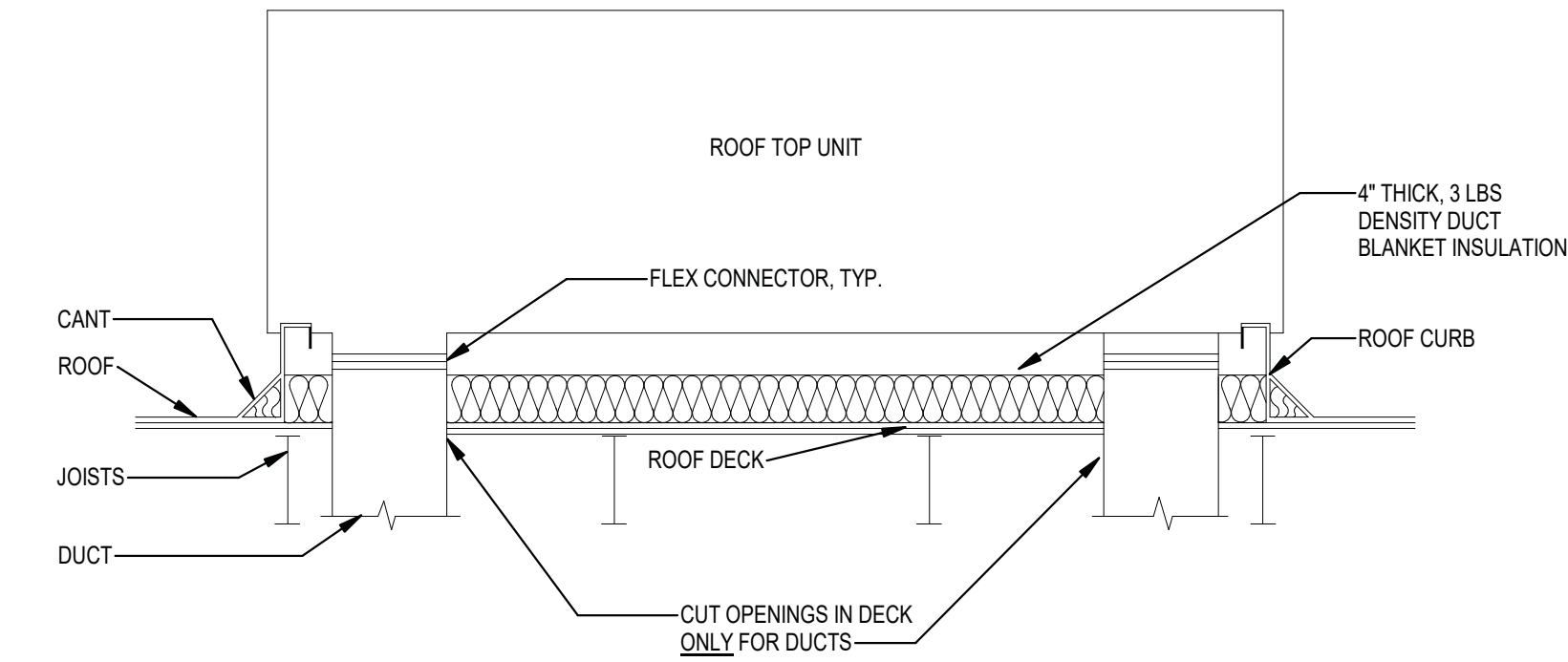
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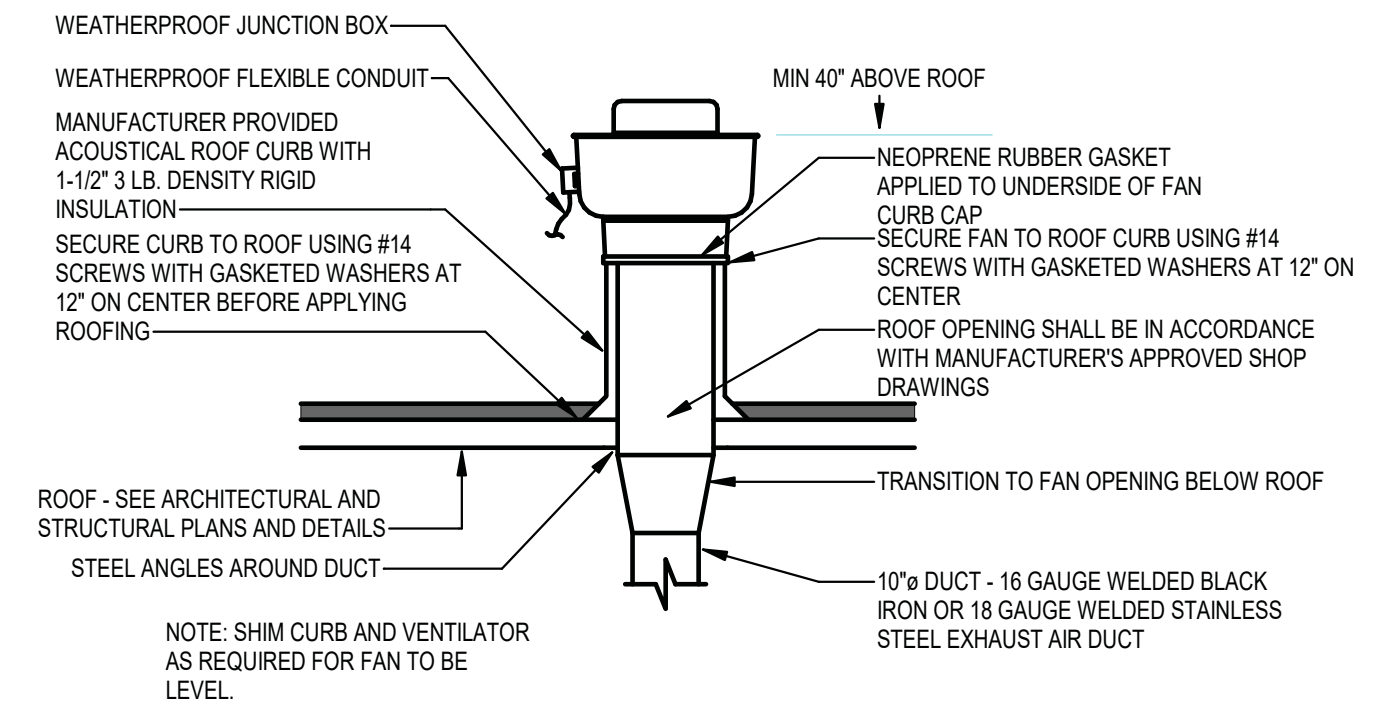
**1**  
 M1.2  
**ROOFTOP UNIT MOUNTING DETAIL**  
 SCALE: NO SCALE



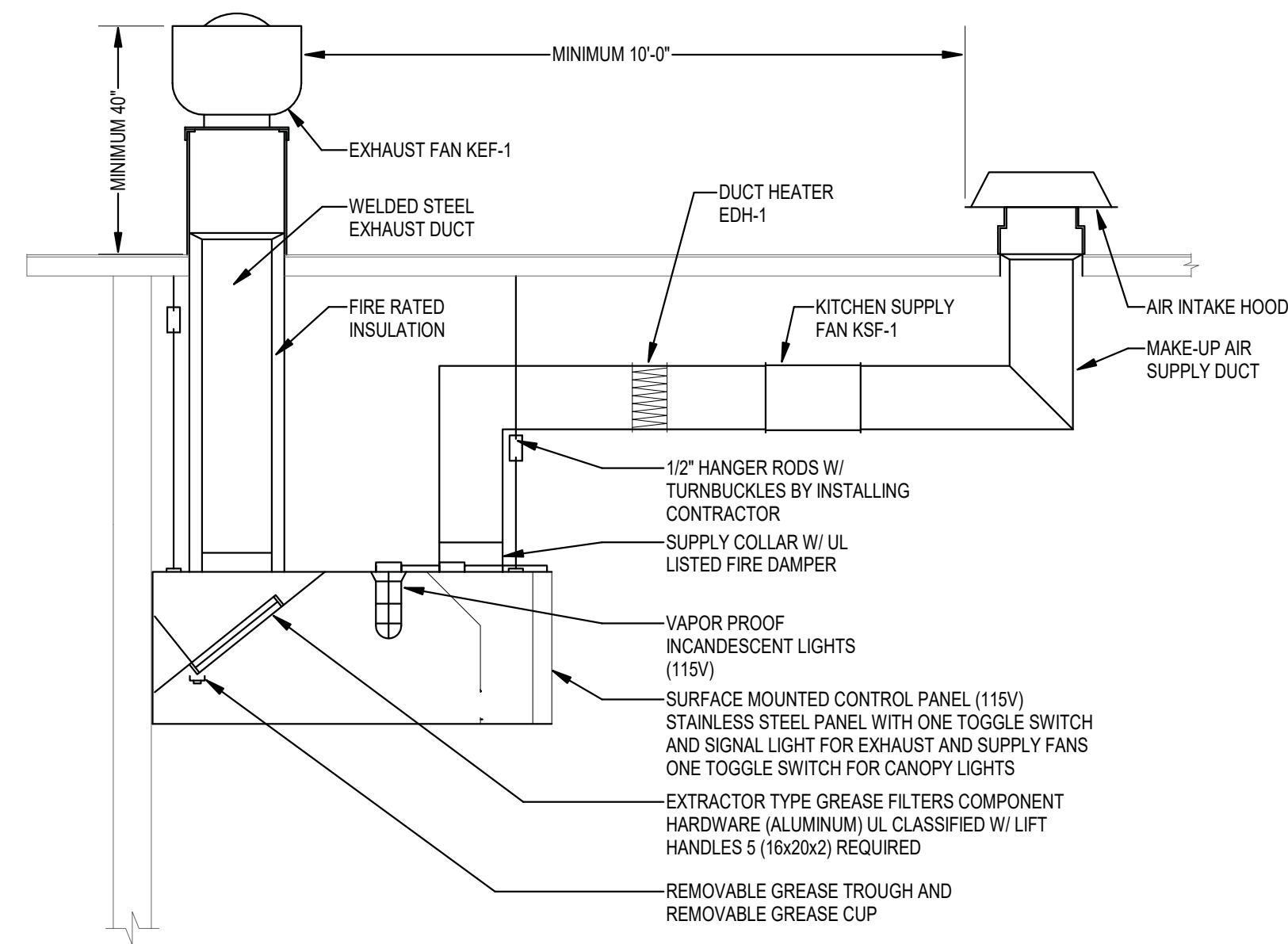
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 M1.2  
**90° ROUND/RECTANGULAR DUCT TAP (PLAN VIEW)**  
 SCALE: NO SCALE



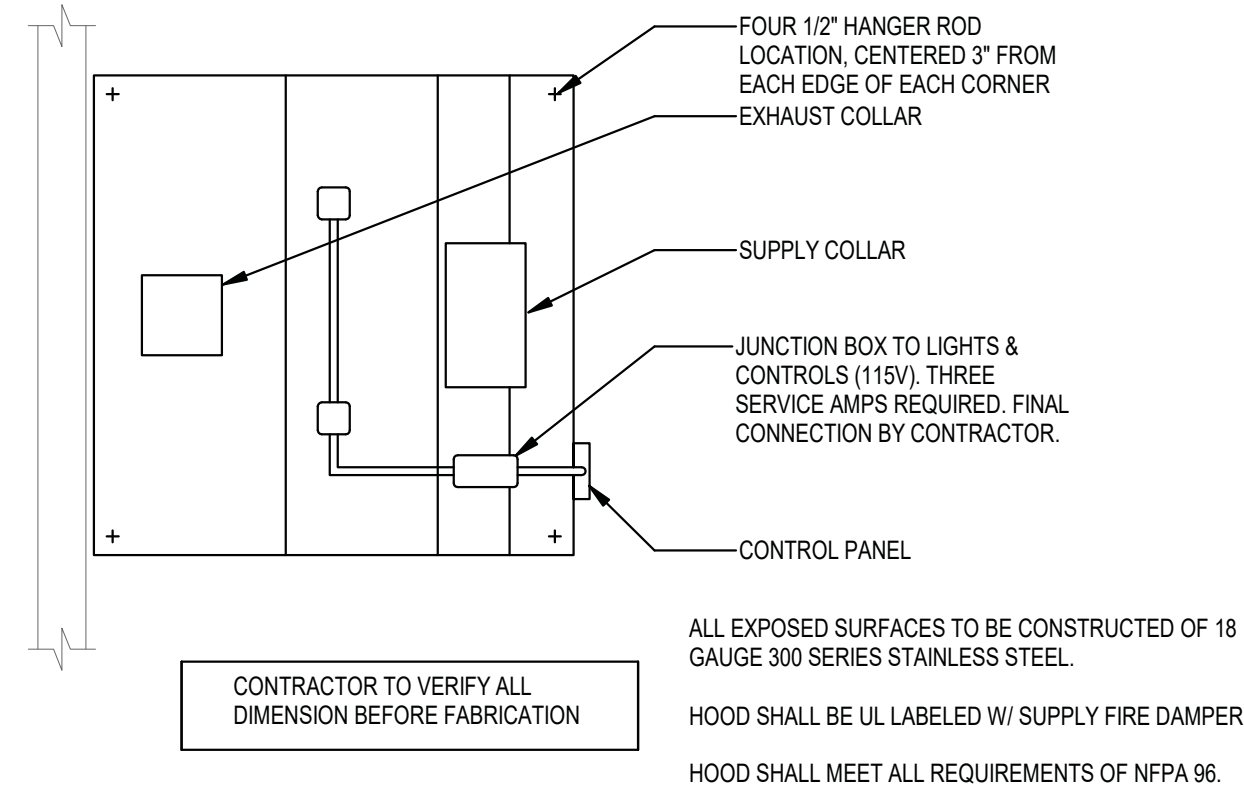
**3**  
 M1.2  
**ROOF TOP UNIT CURB INSTALLATION**  
 SCALE: NO SCALE



**4**  
 M1.2  
**RANGE HOOD FAN INSTALLATION DETAIL**  
 SCALE: NO SCALE

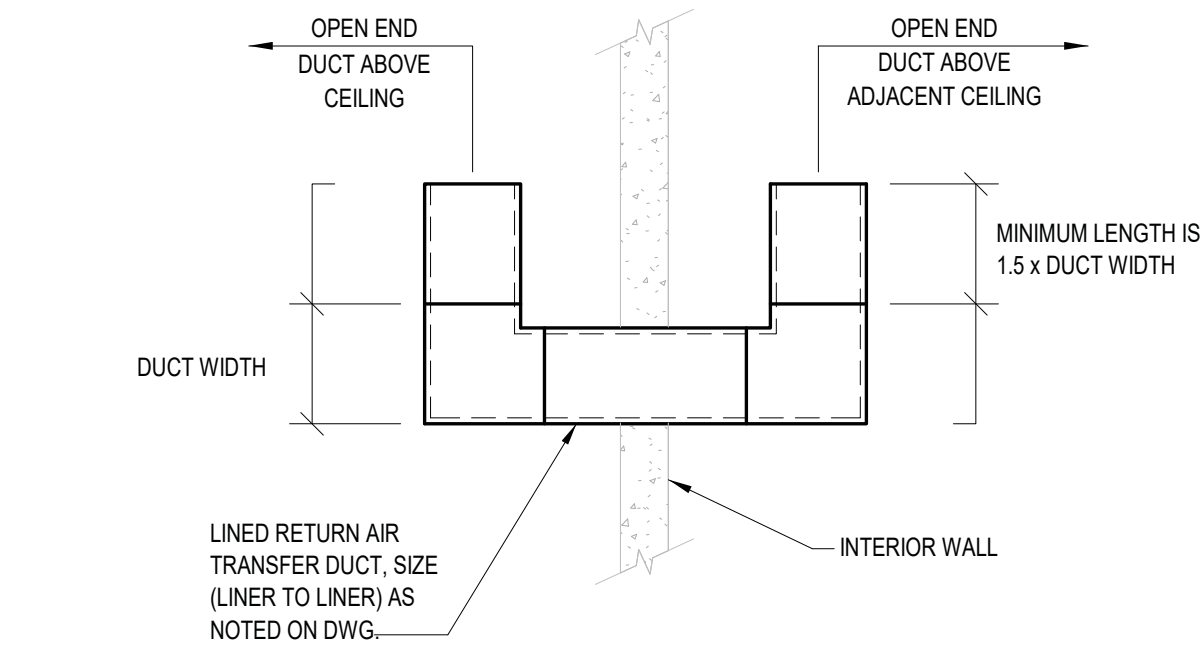


**HOOD SECTION**  
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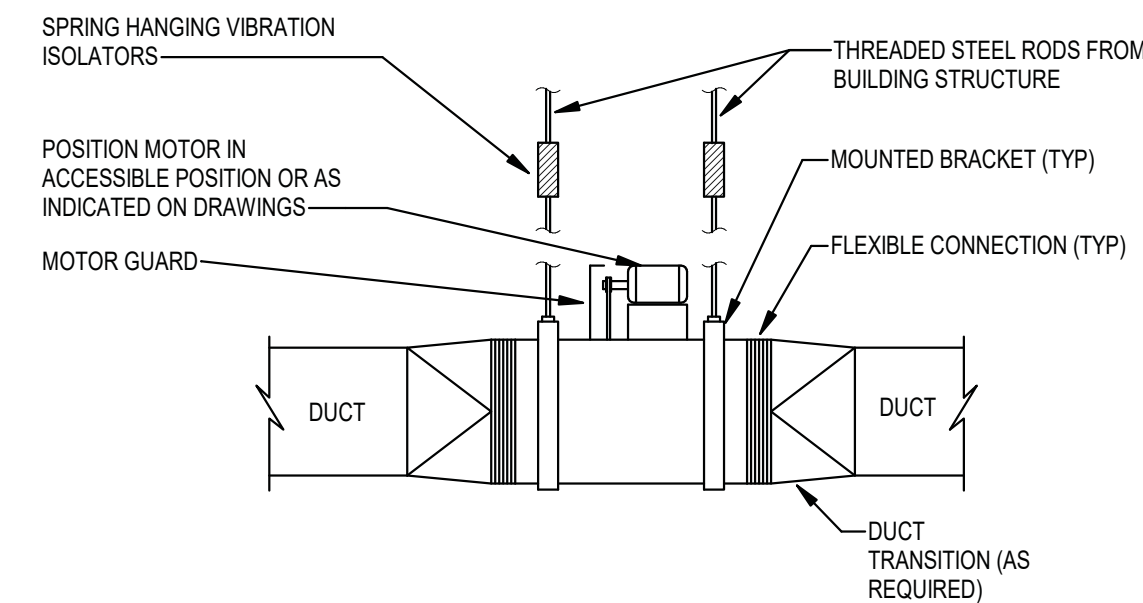


**KITCHEN HOOD PLAN VIEW**  
 NO SCALE

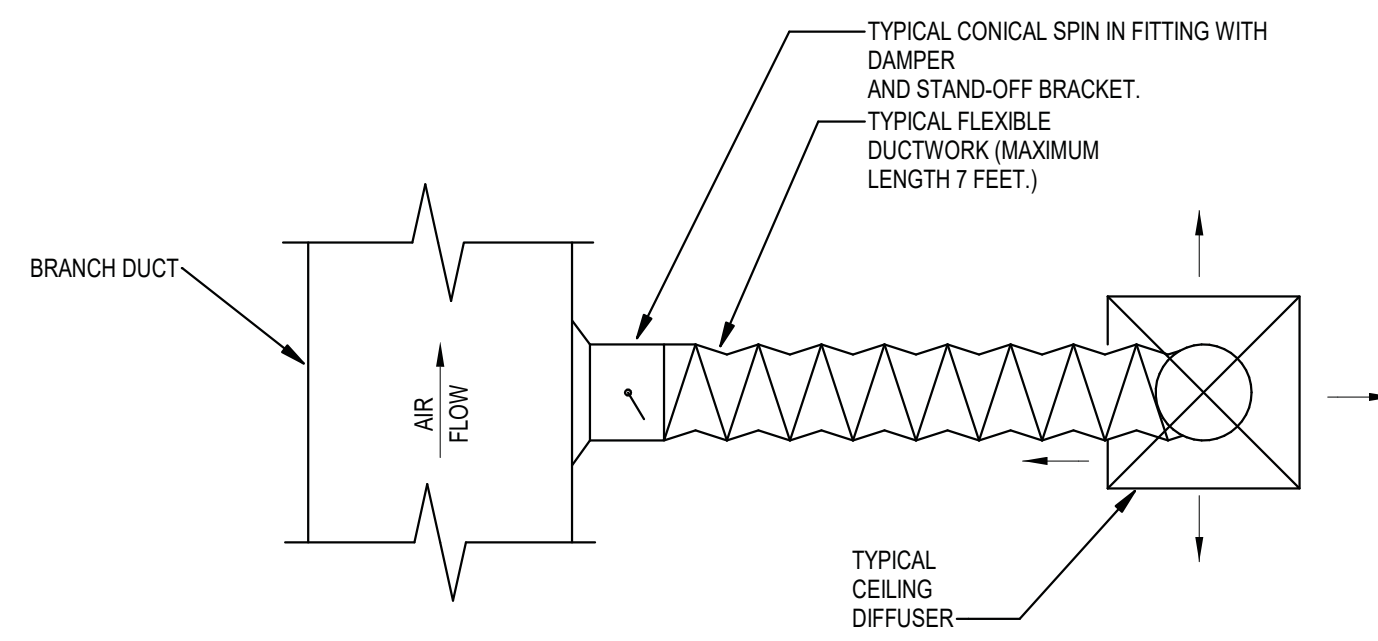
**7**  
 M1.2  
**RANGE HOOD INSTALLATION DETAIL**  
 SCALE: NO SCALE



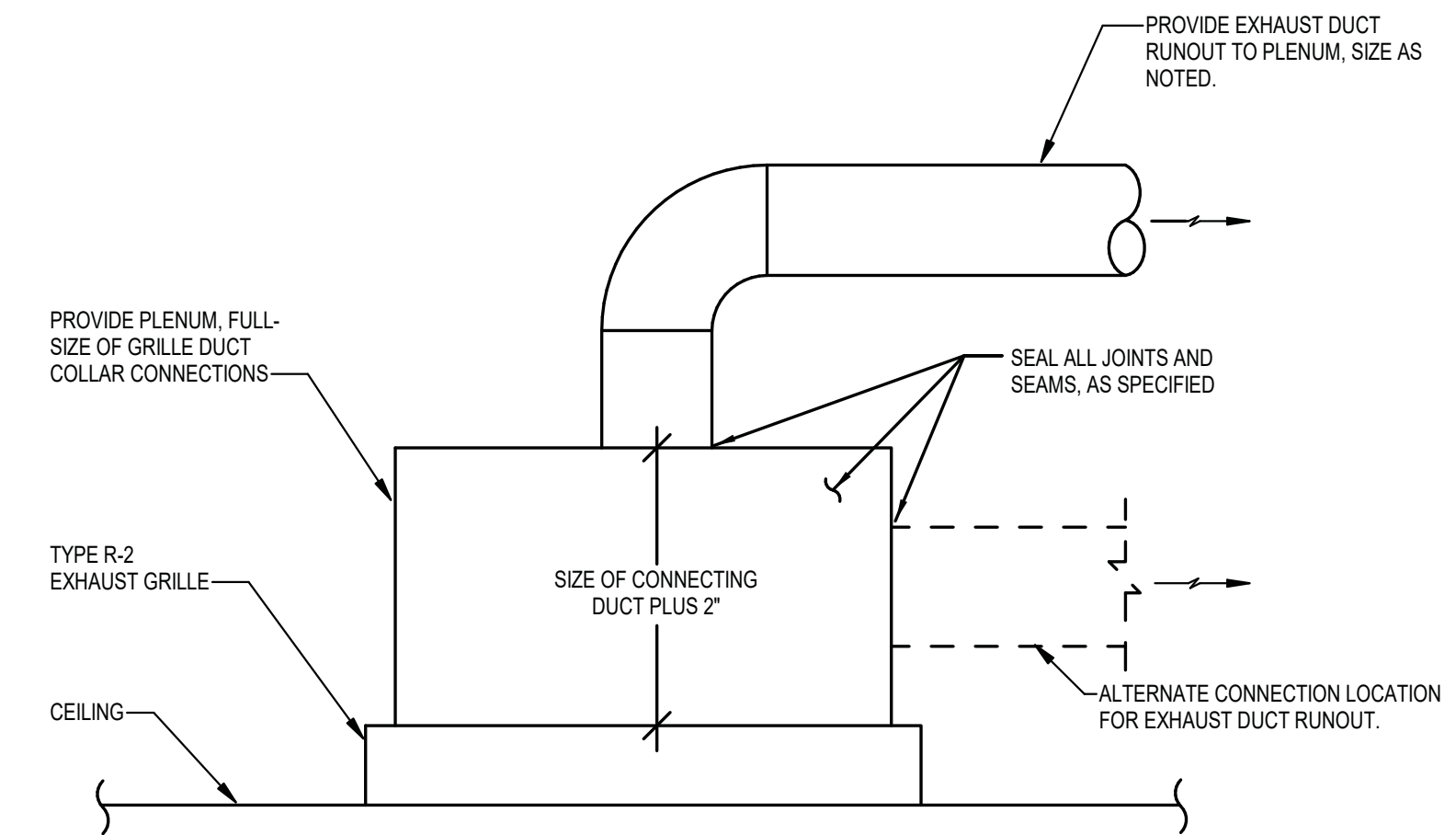
**5**  
 M1.2  
**TRANSFER AIR \"U\" DUCT DETAIL**  
 SCALE: NO SCALE



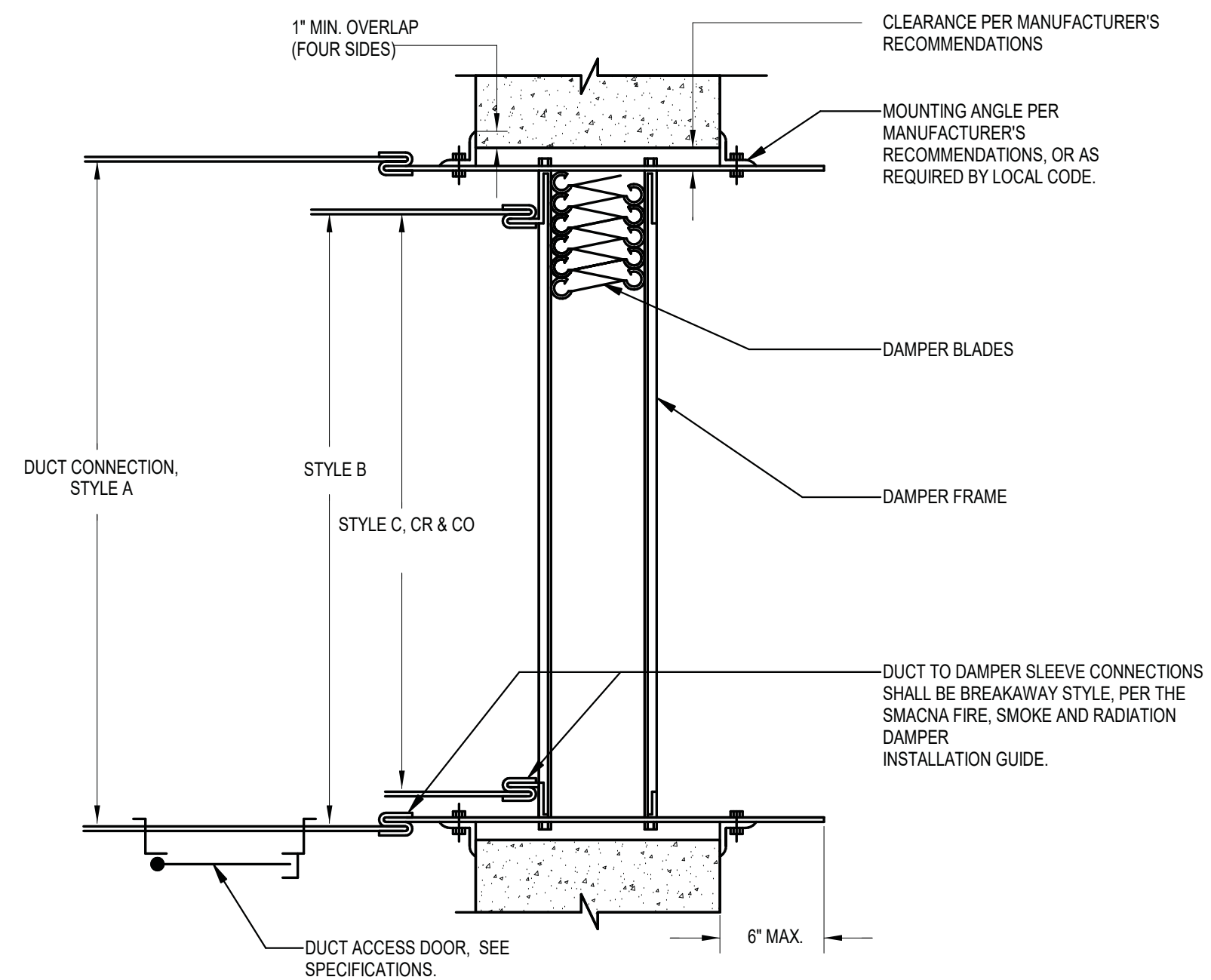
**8**  
 M1.2  
**IN-LINE FAN DETAIL**  
 SCALE: NO SCALE



**9**  
 M1.2  
**FLEXIBLE DUCT TAKE-OFF DETAIL**  
 SCALE: NO SCALE



**6**  
 M1.2  
**EXHAUST GRILLE DETAIL**  
 SCALE: NO SCALE



**10**  
 M1.2  
**FIRE DAMPER DETAIL**  
 SCALE: NO SCALE

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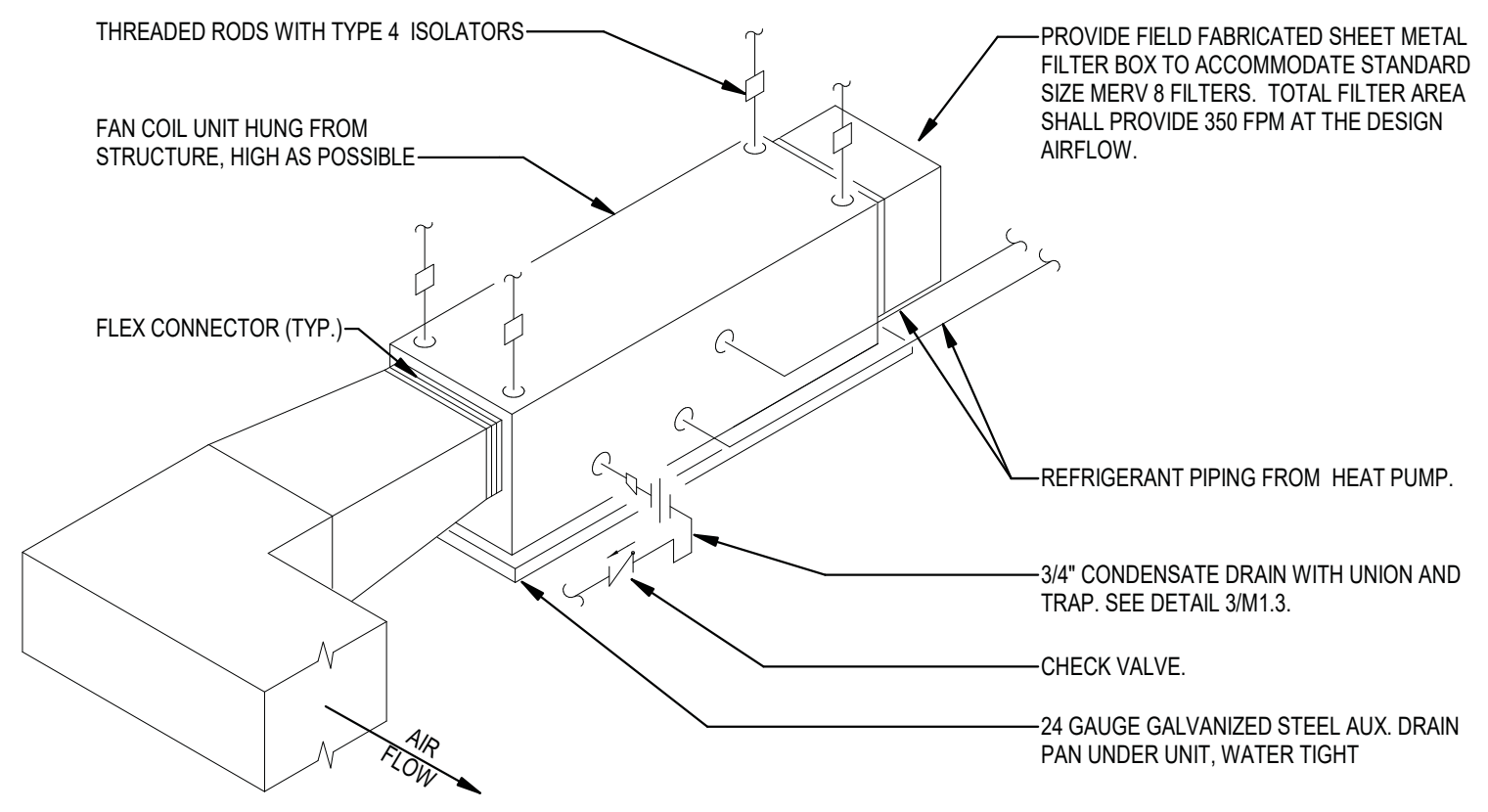
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 DRAWN SP  
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 SHEET TITLE

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10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER
M1.2			

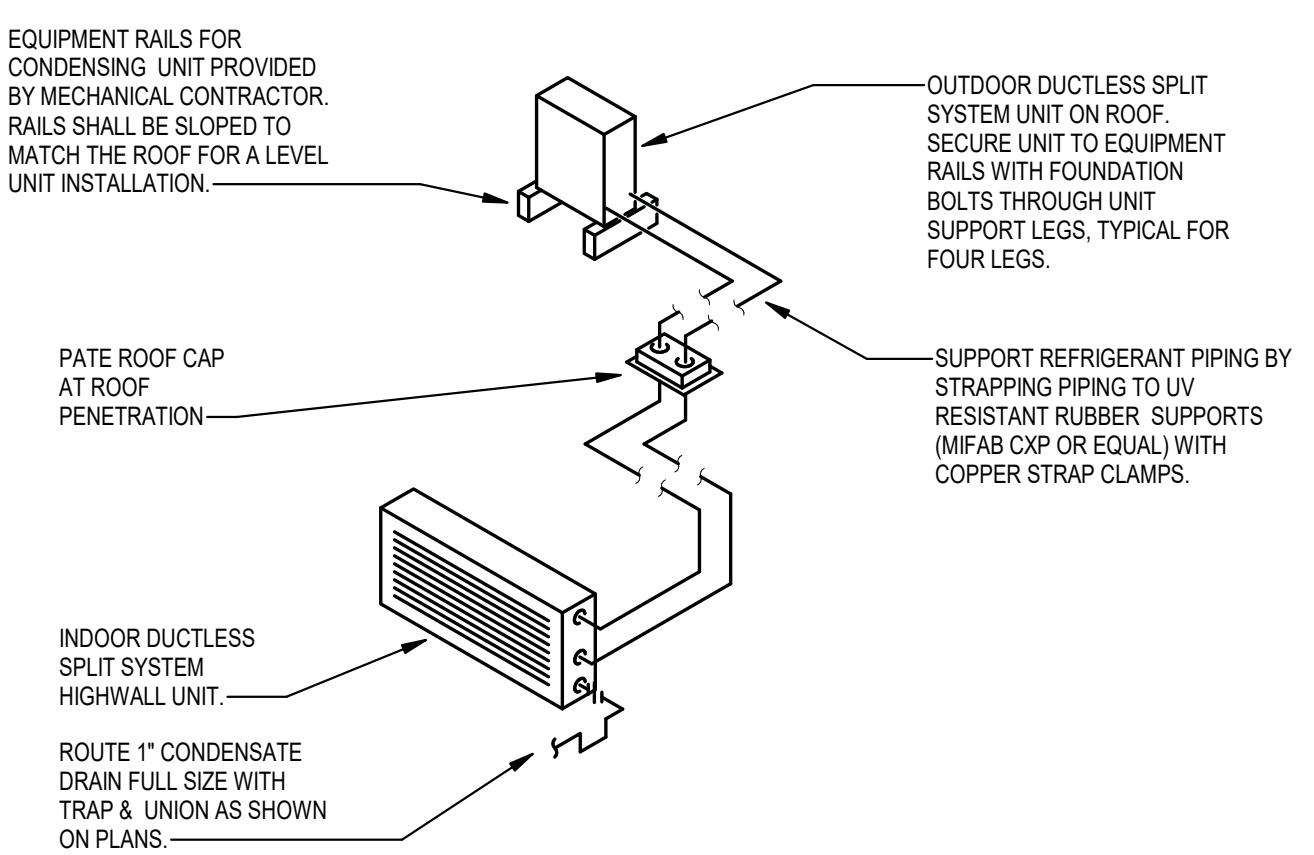
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 CONSULTING ENGINEERS  
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 Peachtree Corners, GA 30092  
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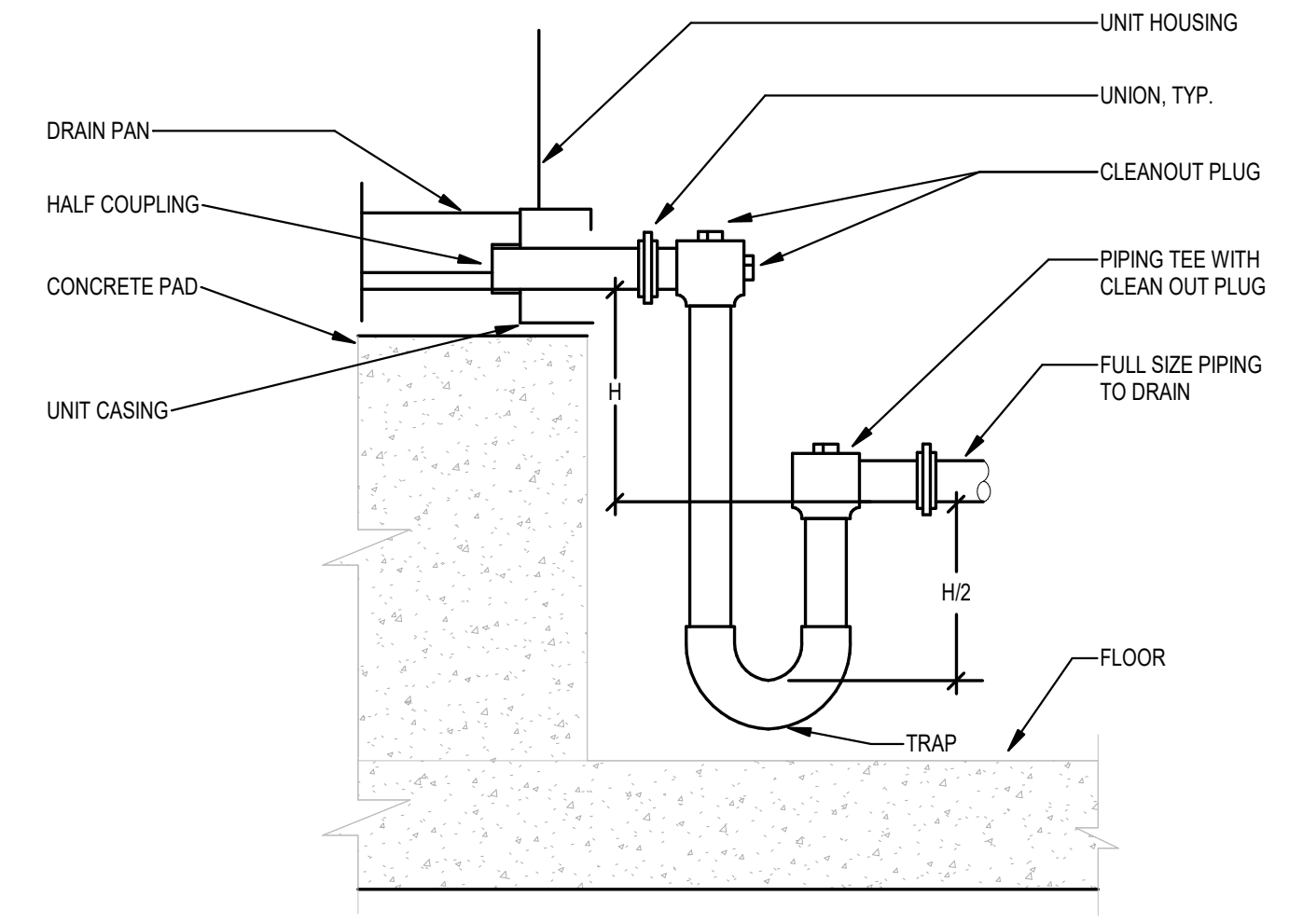
NOTES:  
 1. SUPPORT UNIT THREADED RODS FROM ANGLE STEEL BETWEEN BEAMS OR JOISTS.  
 2. EQUIPMENT MANUFACTURER TO DETERMINE REFRIGERANT PIPING SIZES.

**1 VRF DUCTED FAN COIL UNIT DETAIL**  
 M1.3 SCALE: NO SCALE



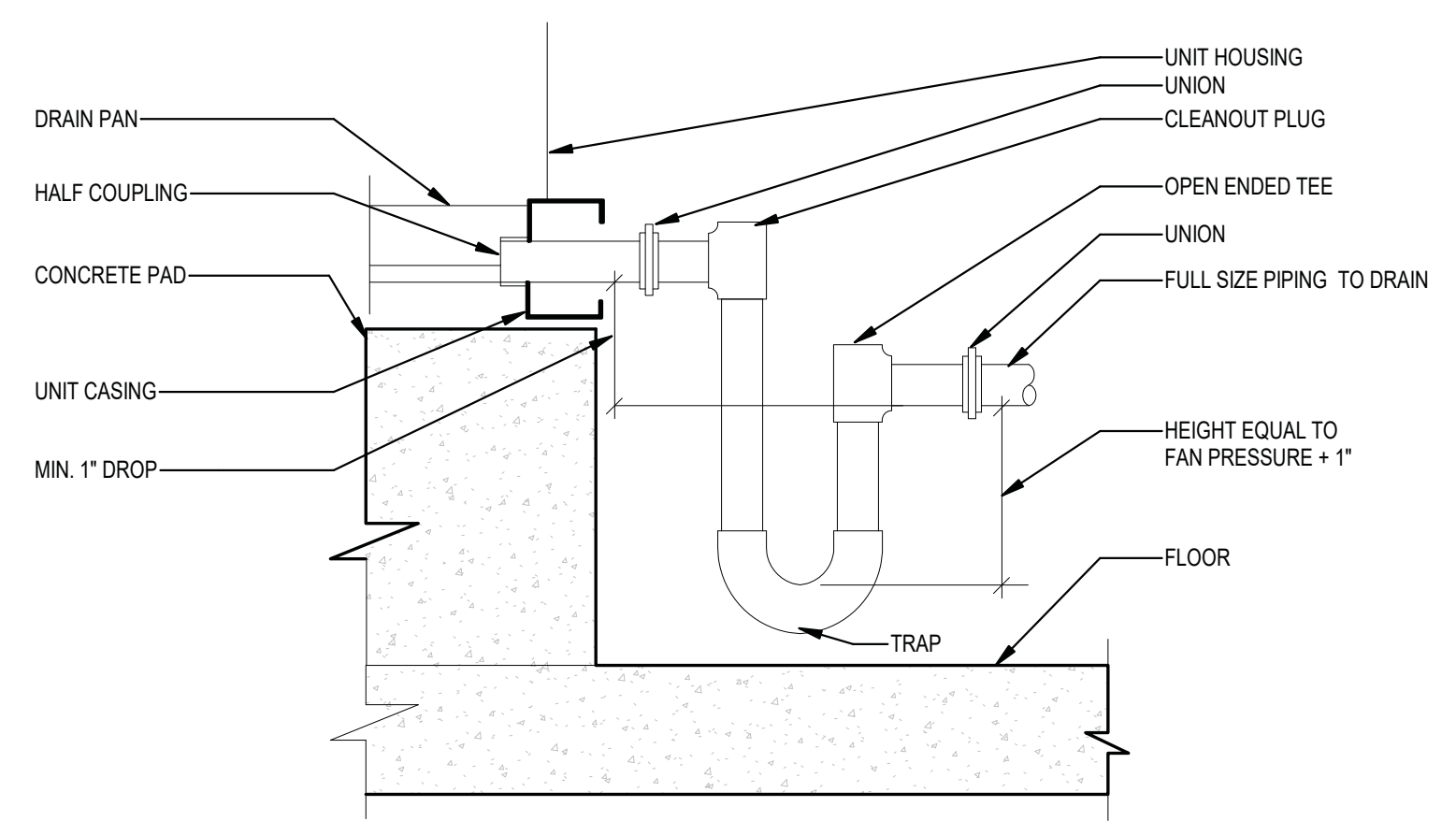
NOTE:  
 1. EQUIPMENT MANUFACTURER TO DETERMINE REFRIGERANT PIPING SIZES.  
 2. ROOF EQUIPMENT RAILS SHALL BE COORDINATED WITH ROOFING SYSTEM TO ENSURE WARRANTY COVERAGE.

**2 HIGH WALL DUCTLESS SPLIT REFRIGERANT PIPING DIAGRAM**  
 M1.3 SCALE: NO SCALE

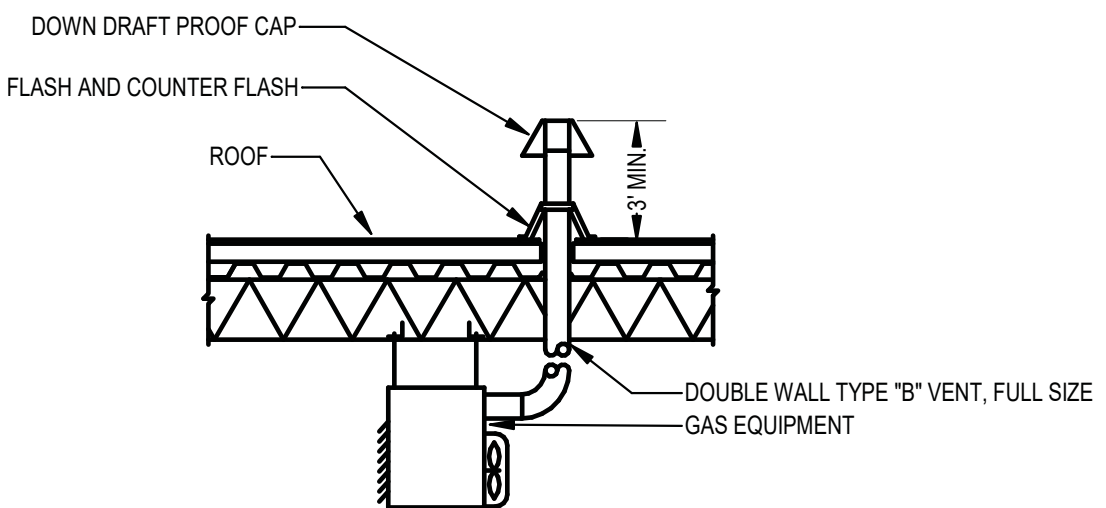


NOTE: H = FAN INLET PRESSURE (INCHES W.C.) + 1"

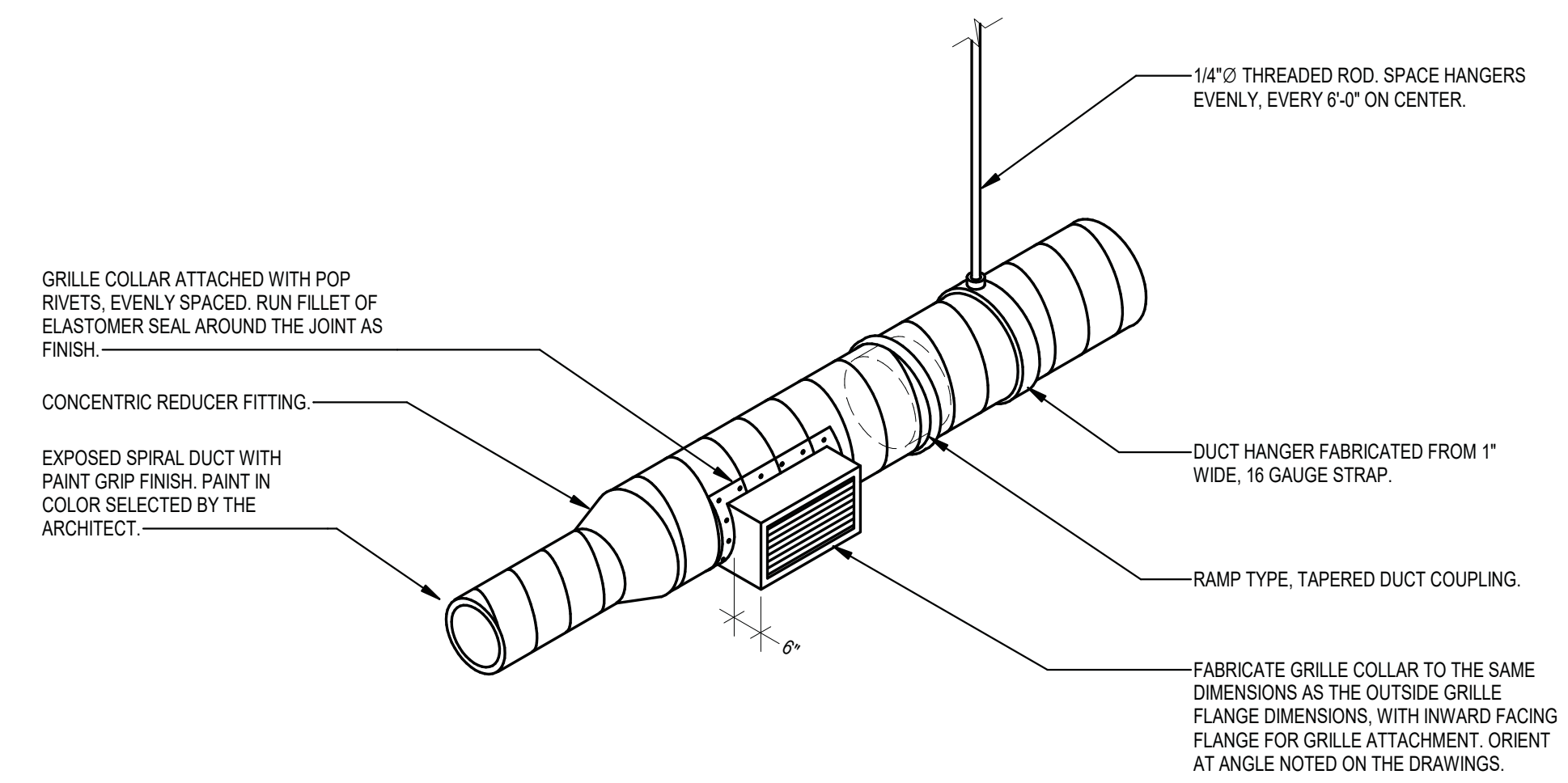
**3 DRAW THROUGH CONDENSATE TRAP DETAIL**  
 M1.3 SCALE: NO SCALE



**4 BLOW THROUGH CONDENSATE TRAP DETAIL**  
 M1.3 SCALE: NO SCALE

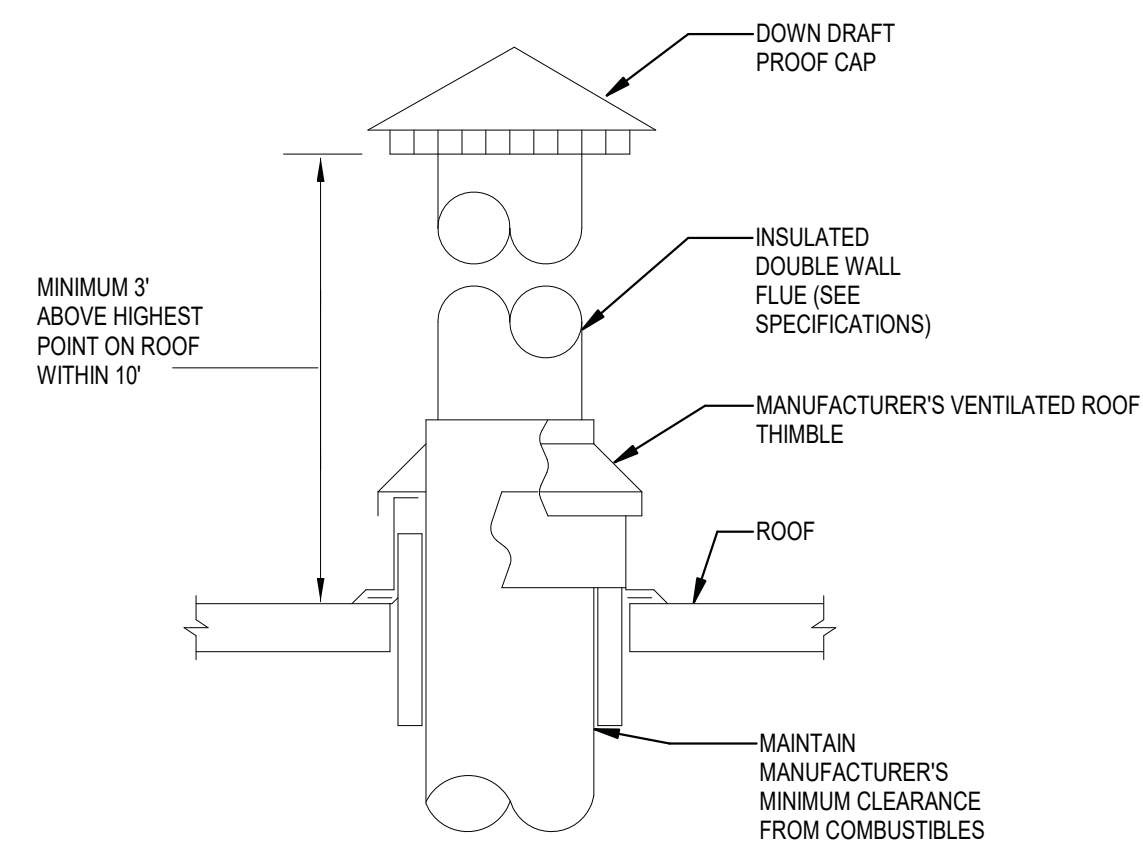


**5 GAS FLUE INSTALLATION DETAIL**  
 M1.3 SCALE: NO SCALE



NOTE:  
 1. ROTATE DUCTS AT EACH JOINT SO THAT THE SPIRAL SEAM LINES UP TO APPEAR CONTINUOUSLY.

**6 EXPOSED DUCT DETAIL**  
 M1.3 SCALE: NO SCALE



**7 GAS FLUE CAP DIAGRAM**  
 M1.3 SCALE: NO SCALE

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HVAC DETAILS

DESIGN	SP	DRAWN	SP	CHECKED	TLN
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DATE	NO.	DESCRIPTION
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SAFE AIR/PLYMOVENT DIRECT CAPTURE BLOWER SPECIFICATIONS		QTY.
MODEL	TEV-585-3	1
HOSE DROPS	4/5	
HANGING WEIGHT	185 LBS.	
CFM	3000	
SP wg	7" wg	
MOTOR HP	7.5 HP	
RPM	3450	
VOLTAGE	208-230 V	
PHASE	3 PH	
HERTZ	60 Hz	
MOTOR FLA	40 AMP	
MOTOR TYPE	TEFC	
MOTOR MFG.	LESSON	
BLOWER HOUSING	STEEL	
FAN INLET SIZE	10"	
FAN OUTLET SIZE	12"	
FINISH	EPOXY POWDER COAT	
COLOR	GRAY	
WHEEL STYLE	BACKWARD INCLINE	
WHEEL TYPE	ALUMINUM	
AMCA CLASS	B	
AMCA TESTED	YES	

SAFE AIR BLOWER/FAN CONTROLLER SPECIFICATIONS		QTY.
MODEL	WD-4E-UL CONTROL BOX	1
PATENT NUMBER	US 10,451,301 B2	
CONTROL BOX TYPE	NEMA 4 X	
BOX SIZE LxHxD	16"x18"x8"	
MOTOR STARTER	ALLEN BRADLY-100	
MOTOR OVERLOAD	ALLEN BRADLY-AUTO	
SC BLOWER AFTER RUN TIME	1-3 MIN. VARIABLE	
GE FAN AFTER RUN TIME	5-15 MIN. VARIABLE	
ACD AFTER RUN TIME	10-20 MIN. VARIABLE	
EMAIL DIALER	6 CHANNEL OUTPUT	
DATA PORT	CAT 5-ST	
WIFI DATA PORT	OPTIONAL	
CELLULAR HOTSPOT	OPTIONAL	
MODBUS/BACNET COMPATIBLE	OPTIONAL	
EMAIL ADDRESSES	UNLIMITED	
SERVICE CALL BUTTON	YES	
DUCTWORK TEMP PROBE	YES/0-2000 DEG.	
FILTER CHANGE ALARM	YES	
ELAPSED TIME TIMER	YES	
AFTER RUN TIME	1-3 MIN.	
CONTROL SWITCH	AUTO/MANUAL	
CONTROL LIGHT	GREEN	
TAG OUT/LOCK OUT	YES	
UL RATED	YES	
TOXIC GAS ALARM	YELLOW/RED STROBE LIGHT	
TOXIC GAS HORN	94 dBA	
MULTIPLE FAN CONTROL	YES UP TO 10	
FIRE ALARM SHUTDOWN	YES	
REMOTE DIAL-IN	OPTIONAL	
AUTO START TRANSMITTER	VTK-2/UNLIMITED TRUCKS	

SAFE AIR/HONEYWELL REAL TIME TOXIC GAS CONTROL SPECIFICATIONS		QTY.
MODEL	3 POINT E	1
BOX SIZE LxHxD	8.25"x5.75"x2.5"	
REAL TIME DISPLAY	YES	
CO SENSOR	25 PPM	
NO2 SENSOR	1 PPM	
FAN SHUTDOWN	YES	
ALARM HORN	98 dBA	

SAFE AIR CLAMPING DUCTWORK SYSTEM SPECIFICATIONS		QTY.
DUCT SIZES	4-16" DIA. ROUND	1
DUCT GAUGE	18	
JOINT TYPE	BEAD AND CLAMP	
STEEL TYPE	GALV. ROLLED	
PIPE SEAM TYPE	LASER WELDED	
BRANCH TYPE	REDUCING/NON-REDUCING	
BRANCH ANGLE	30 DEGREE	
ADJUSTMENT DAMPER	MANUAL W/LOCK SCREW	
DUCT HANGER TYPE	THREADED ROD W/ HJ HANGER	
EXHAUST STACK TYPE	EPA FREE FLOW JET CAP	
DUCT PENETRATION	WALL DISCHARGE/CORE DRILL	
ASTM RATING	A527-G90	

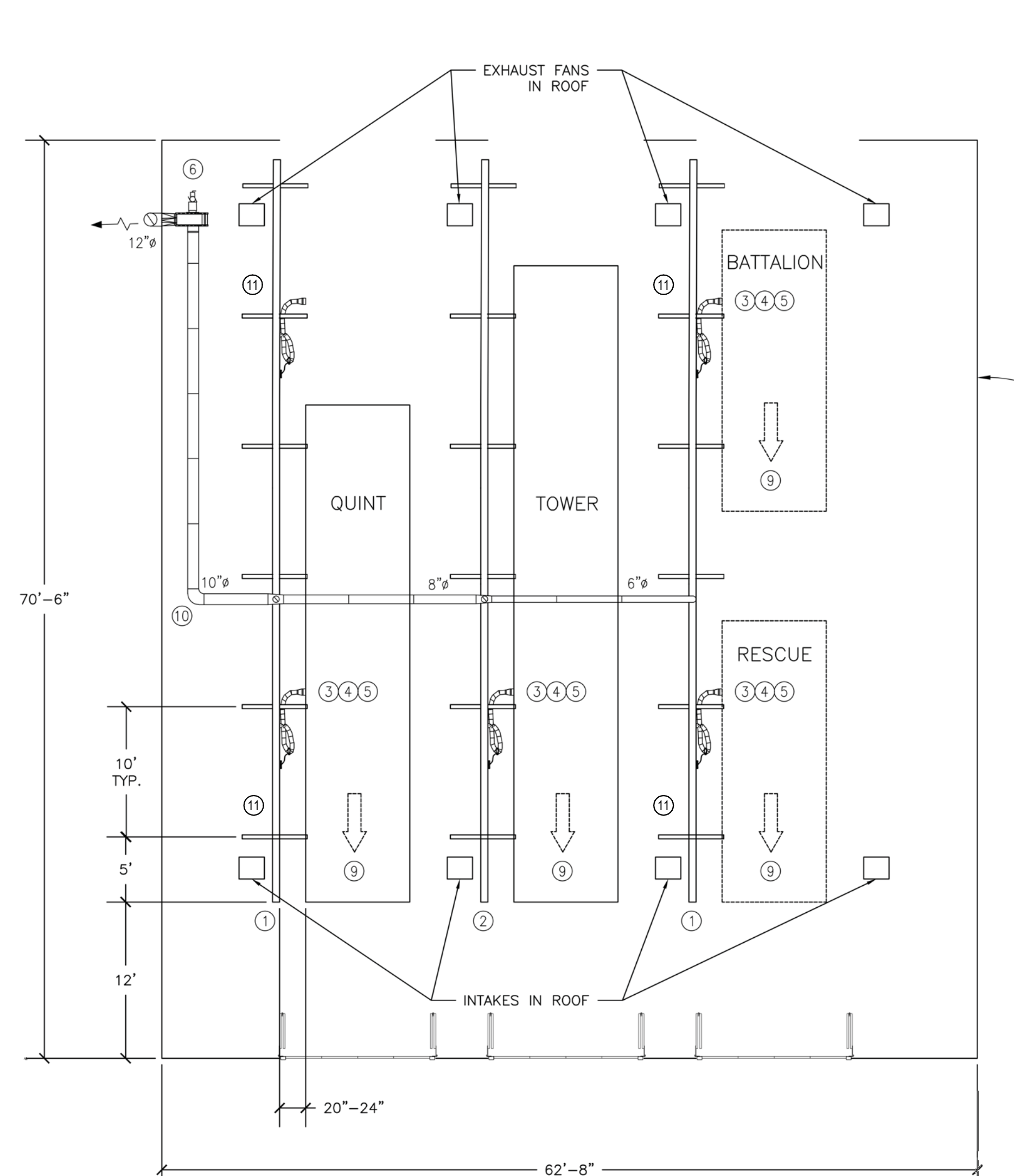
SAFE AIR/PLYMOVENT EXHAUST EQUIPMENT SPECIFICATIONS		QTY.
MODEL	MRP-60-1/2	1/2
HOSE DROP SIZE	4-5" DIA.	
HOSE TEMP.	850-1050 DEG.	
SAFETY DISCONNECT	ADJUSTABLE 88 LBS/3-5" HS	
MAGNETIC GRABBER NOZZLE	MRP/VSRX/4-7" TAILPIPE	
TAILPIPE ADAPTOR PLATE	STAINLESS STEEL/CONTROLLED FLOW	
EXHAUST RAIL LENGTH	57'	
HANGING WEIGHT	274 LBS./304 LBS.	
MATERIAL	ALUMINUM	
RAIL TYPE	6063-T6	
RAIL OPEN AREA	28.3 SQ. IN./6 IN. ROUND	
WALL THICKNESS	5/32"/4MM	
LEG SUPPORTS	6	
SUPPORT TYPE	ALUMINUM	
SPLICE TYPE	STEEL	
SPLICE FASTENERS	3/8"x1" HEX CAP GRADE 5	
RAIL SETBACK FROM DOOR	5'	
RAIL MOUNTING HEIGHT	13'	
RAIL LOCATION OFF VEHICLE	20-24"	

### SAFEAIR/PLYMOVENT CODED NOTES:

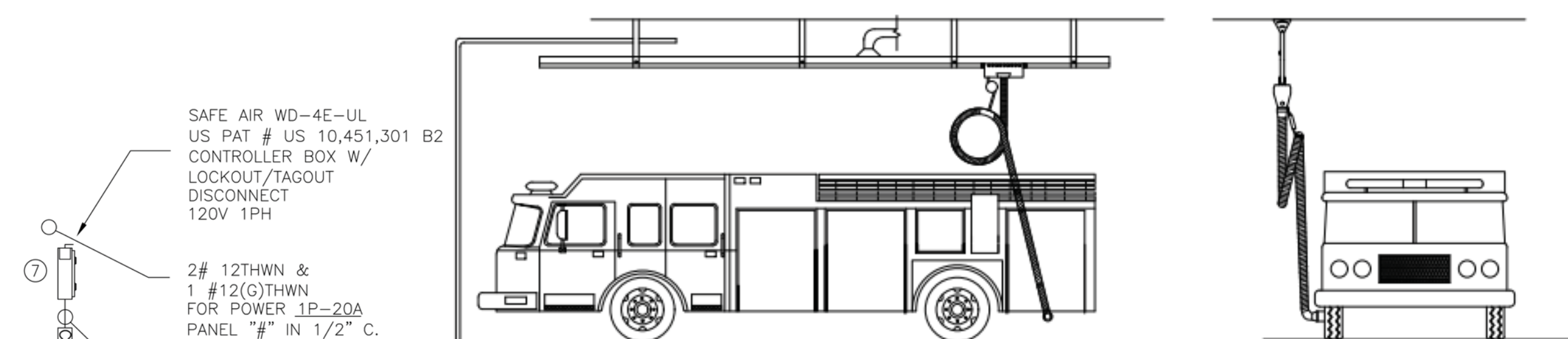
- ① MRP-60-2 EXHAUST RAIL SYSTEM
- ② MRP-60-1 EXHAUST RAIL SYSTEM
- ③ MAGNETIC GRABBER TAILPIPE NOZZLE
- ④ SAFETY BREAKAWAY HANDLE
- ⑤ MG TAILPIPE ADAPTER
- ⑥ SOURCE CAPTURE BLOWER TEV-585-3 5 HP TEFC-480 VAC 3 PH
- ⑦ WD-4E-UL ELECTRICAL CONTROL BOX
- ⑧ HONEYWELL COINO2 DETECTOR
- ⑨ AUTO START TRANSMITTER
- ⑩ CLAMPING DUCTWORK SYSTEM
- ⑪ COORDINATE EXHAUST RAIL SYSTEM WITH GAS HEATERS ON SHEET M2.1, TYPICAL.

### SAFE AIR CORPORATION EXHAUST SYSTEM - GENERAL NOTES & SPECIFICATIONS

1. THIS PROJECT IS DESIGNED AND PROVIDED BY SAFE AIR CORPORATION. FOR DETAILS ON PROJECT PLEASE CONTACT THE FOLLOWING: SAFE AIR CORPORATION - sales@safairco.com-WAYNE LUTZ-wlutz@safairco.com-800-798-8820.
2. THE EQUIPMENT SPECIFICATIONS LISTED IN DRAWINGS ARE TO BE PROVIDED IN FULL WITH NO CHANGES OR EXCEPTIONS.
3. THE FINAL SHOP DRAWINGS MUST SHOW THE DETAILS OF VEHICLE LOCATIONS, NUMBER OF VEHICLES, DIRECTION OF EXIT FROM STATION AND BE APPROVED BY OWNER.
4. ALL EXHAUST FANS AND BLOWERS SHALL MEET AMCA TEST STANDARDS FOR PERFORMANCE AND BE MOUNTED IN THE BAY AREA OR BE NOA RATED FOR OUTSIDE INSTALLATION.
5. ALL ELECTRICAL CONTROLS AND WIRING COMPONENTS SHALL BE UL OR ETL LISTED.
6. ALL ELECTRICAL (120-480V), CONTROL WIRE (24V), AND DATA (CAT-5) IS THE SCOPE OF WORK OF THE ELECTRICAL/CONTROLS CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SAFE AIR AND ALL OTHER TRADES WITH ANY UPDATES OR CHANGES TO ELECTRICAL SUPPLY THAT MAY CHANGE AND EFFECT BLOWER/EXHAUST FANS/MOTORIZE DAMPER/POWER REQUIREMENT BY EMAIL TO ALL TRADES.
7. ALL WIRING WILL BE RUN IN EMT CONDUIT WITH WATER-TIGHT FITTINGS. THE MINIMUM WIRE SIZE SHALL BE #13 THHN MULTI-STRAND COPPER WIRE OR LARGER BASED ON NEC LOAD CHART FOR HORSE POWER FULL LOAD AMPERAGE AND SIZED ONE CONDUCTOR LARGER AND #14 THHN MULTI-STRAND COPPER WIRE FOR LOW VOLTAGE CONTROL WIRING.
8. ALL WIRING SHALL BE COLOR CODED AS NOTED OR LABELED ON BOTH ENDS AND CONTROL SYSTEMS LABELED WITH THE PANEL/BREAKER THAT SUPPLIES THE CONTROLLER.
9. ALL MECHANICAL INSTALLATION OF SOURCE CAPTURE EQUIPMENT AND DUCTWORK IS THE SCOPE OF WORK OF MECHANICAL CONTRACTOR OR SAGE AIR AS NOTED.
10. ALL TRADES MUST MEET FEDERAL, STATE AND CITY CODES FOR THE TRADE THAT YOU REPRESENT.
11. LOCATIONS ON DOCUMENTS ARE APPROXIMATE LOCATIONS OF TYPICALLY REQUIRED EQUIPMENT AND MAY NOT IDENTIFY ALL SCHEDULED EQUIPMENT FROM SAFE AIR.
12. FINAL START-UP, TRAINING AND COMMISSIONING IS PROVIDED BY SAFE AIR.

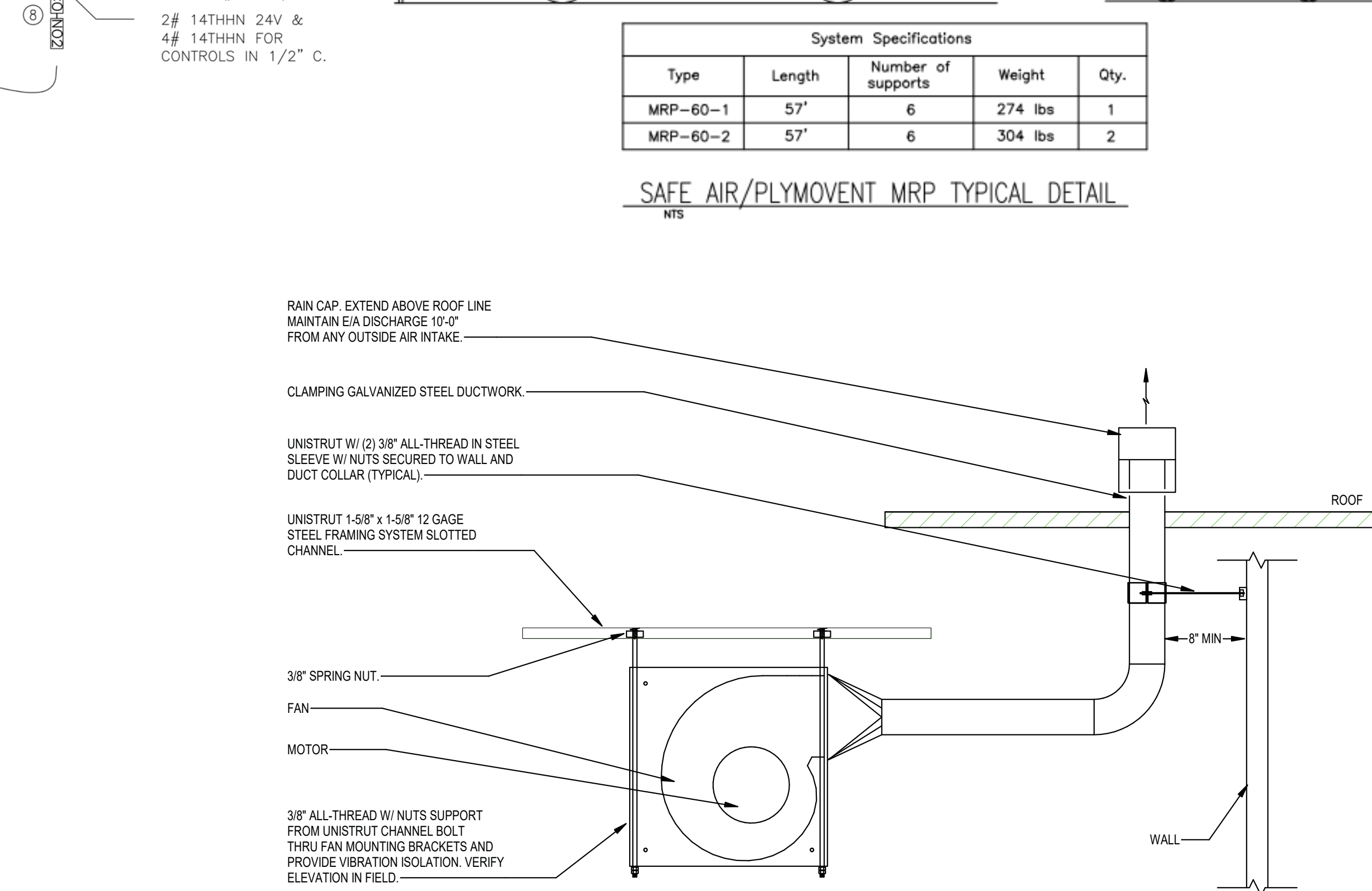


**1 SAFE AIR CORPORATION - DIESEL EXHAUST SYSTEM**  
 SCALE: 1/8" = 1'-0"  
 1/4" = 1'-0" SCALE FEET



System Specifications				
Type	Length	Number of supports	Weight	Qty.
MRP-60-1	57'	6	274 lbs	1
MRP-60-2	57'	6	304 lbs	2

**SAFE AIR/PLYMOVENT MRP TYPICAL DETAIL**  
 NTS



**2 PLYMOVENT TEV FAN MOUNTING DETAIL**  
 SCALE: NO SCALE

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**GILLEM PUBLIC SAFETY BUILDING**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30294  
 PROJECT

APPARATUS BAY DIESEL EXHAUST SYSTEM  
 DESIGN SP  
 DRAWN SP  
 CHECKED TLN  
 SHEET TITLE

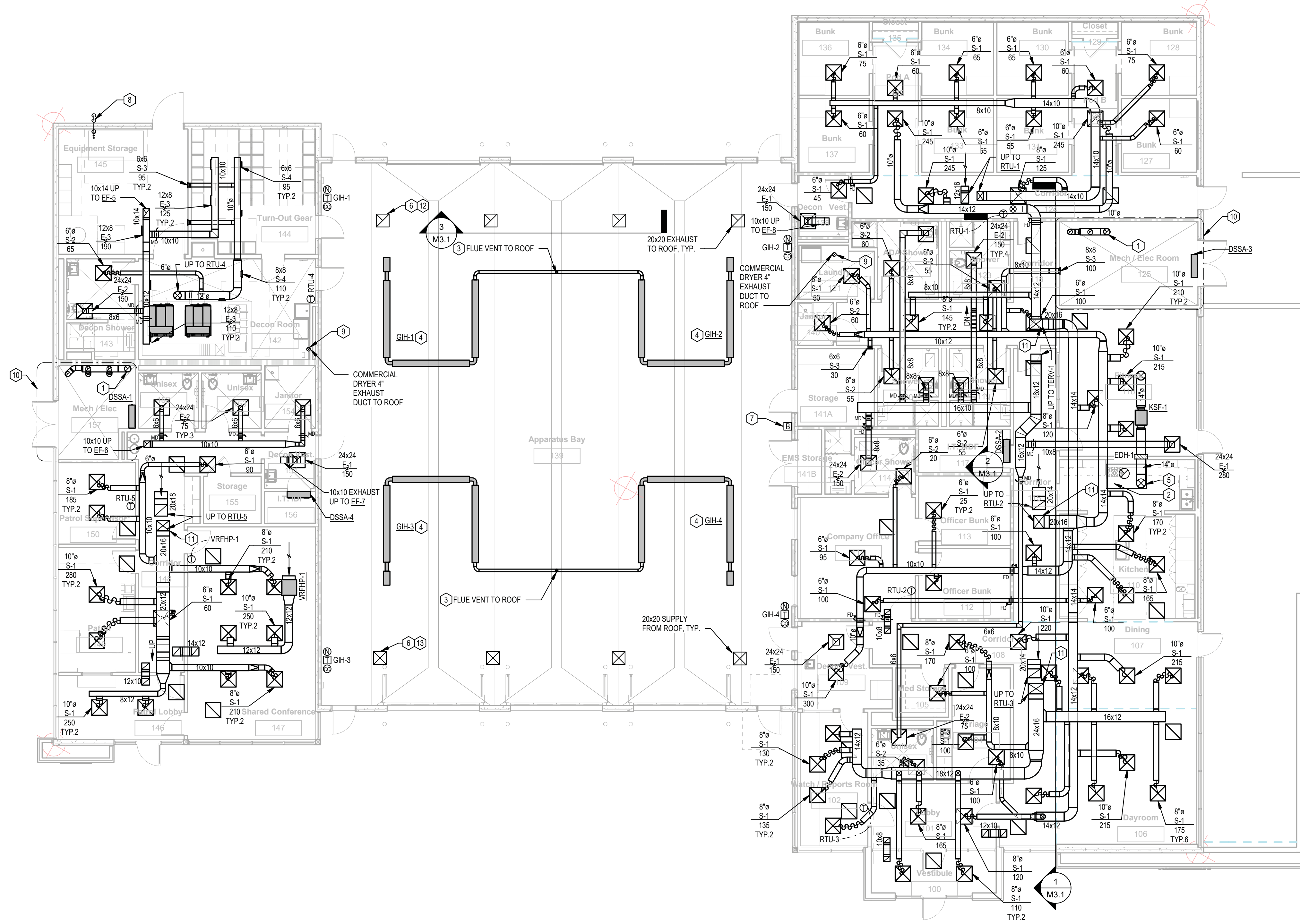
NO.	DESCRIPTION	DATE
1	RELEASED FOR BID	10/26/21

10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

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 770-447-4555 • www.jsaoc.com



**1 MAIN LEVEL HVAC PLAN**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET

**HVAC GENERAL NOTES**

1. SEE SHEET M0.1 FOR MECHANICAL GENERAL NOTES.

**KEYNOTES**

1. PROVIDE COMBINED INTAKE AND EXHAUST VENTS THROUGH THE ROOF FOR GAS-FIRED HOT WATER HEATERS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. HOOD FIRE SUPPRESSION CHEMICAL CYLINDER LOCATION.
3. 4"Ø FLUE VENT FROM GAS-FIRED INFARED TUBE HEATER UP THRU ROOF. SEE DETAIL SHEET FOR MORE INFORMATION. TYPICAL.
4. GAS-FIRED INFARED TUBE HEATERS SHALL BE INSTALLED WITH MANUFACTURER'S REQUIRED CLEARANCES FROM ROOF AND STRUCTURE. TYPICAL.
5. PROVIDE FINAL CONNECTIONS TO RANGE HOOD FOR SUPPLY PLENUM AND EXHAUST.
6. PROVIDE BIRDSCREEN AT THE EXHAUST AND SUPPLY HOODS. TYPICAL.
7. HVAC EXHAUST AND SUPPLY FAN EMERGENCY STOP SWITCH LOCATION.
8. PVC AIR INTAKE PIPING TO TANK FILLER STATION. PROVIDE SCREENING DEVICE ON EXTERIOR OPEN END OF PIPING. USE FLEX PIPING TO ATTACH AIR INTAKE TO THE COMPRESSOR INTAKE FILTER. PROVIDE VALVE ON CONDENSATE DRAIN OF AIR INTAKE PIPING AND ROUTE CONDENSATE TO BUILDING EXTERIOR. INSTALL ALL AIR INTAKE PIPING PER MANUFACTURER INSTALLATION RECOMMENDATIONS.
9. THE MAXIMUM LENGTH OF THE EXHAUST DUCT SHALL BE DETERMINED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE CODE OFFICIAL SHALL BE PROVIDED WITH A COPY OF THE INSTRUCTIONS FOR THE MAKE AND MODEL OF THE DRYER.
10. THE CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND PLUMBING DIVISIONS TO PROVIDE A SHOP DRAWING INDICATING ALL ELECTRICAL EQUIPMENT, HVAC EQUIPMENT, CIRCULATION PUMP CONTROLS, ETC. THAT ARE SUBMITTED TO BE LOCATED WITHIN MECH/ELEC ROOM 125 & 157. THE SHOP DRAWING SHALL PROVIDE ALL CODE REQUIRED CLEARANCES AND MANUFACTURER RECOMMENDED MAINTENANCE CLEARANCES FOR ALL EQUIPMENT. THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT.
11. PROVIDE A SMOKE DETECTOR IN VERTICAL PORTION OF SUPPLY AIR DUCT OF RTU-1, RTU-2, RTU-3 & RTU-5.
12. EXHAUST DUCT TO TERMINATE HIGH AS POSSIBLE. TYPICAL.
13. SUPPLY DUCT TO TERMINATE AT 15 FEET AFF. TYPICAL.



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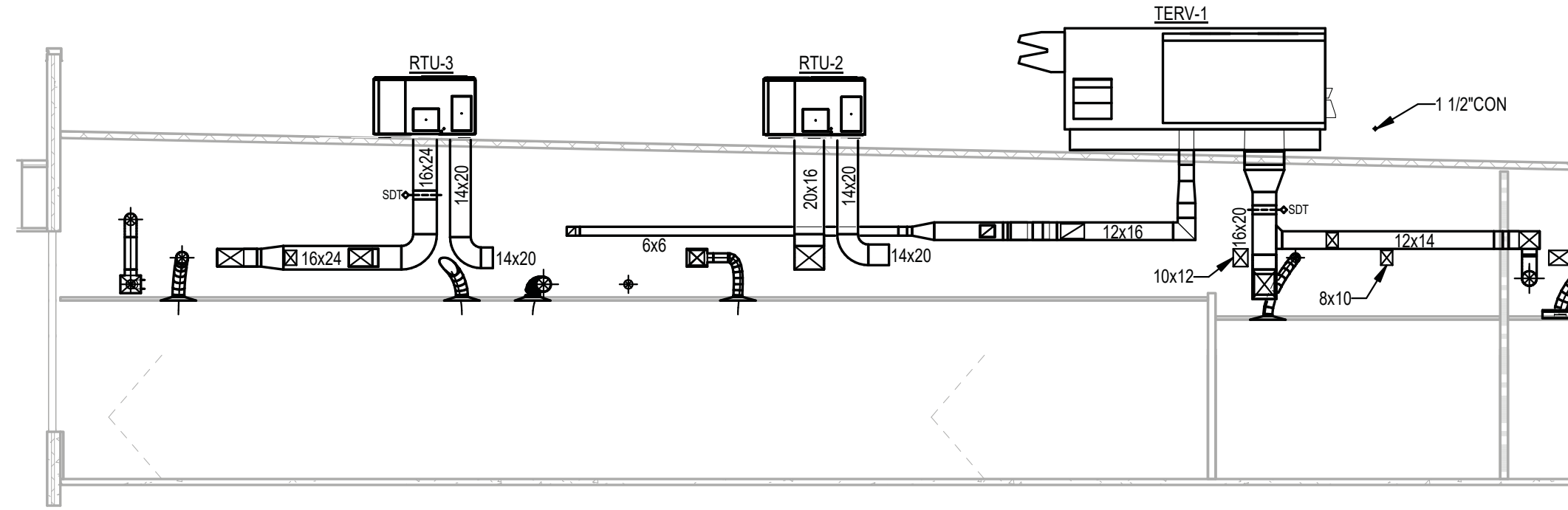
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 PROJECT

HVAC FLOOR PLAN  
 SHEET TITLE  
 DESIGN SP  
 DRAWN SP  
 CHECKED TLN

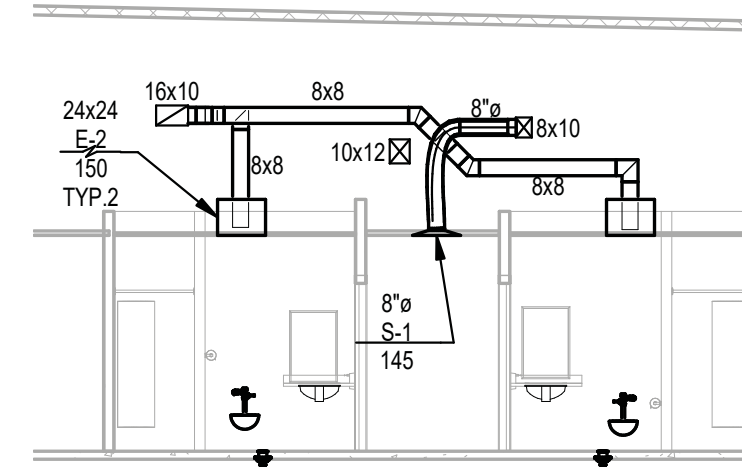
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 A21-006 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER  
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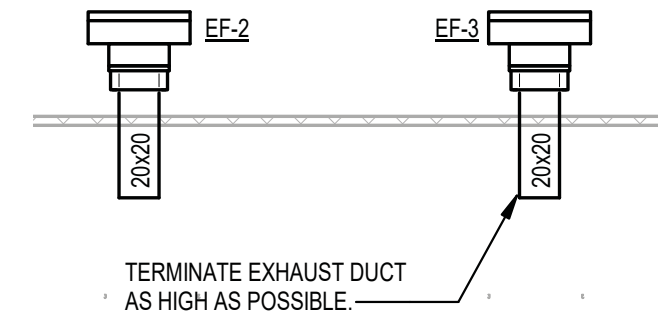




**1 HVAC DUCTWORK SECTION**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET



**2 HVAC DUCTWORK CORRIDOR SECTION**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET



**3 HVAC EXHAUST HOOD SECTION**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET



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**GILLEM PUBLIC SAFETY BUILDING**  
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**PROJECT**

HVAC SECTIONS		SHEET TITLE	
DESIGN	SP	DRAWN	SP
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DATE	NO.	DESCRIPTION
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 FILE NUMBER

M3.1



INPUT/ OUTPUT SUMMARY	OUTPUTS				INPUTS										SOFTWARE				NOTES											
	DIGITAL		ANALOG		DIGITAL		ANALOG								ALARM		ENERGY MANAGEMENT													
	START/STOP	OPEN/CLOSE	ENABLE/DISABLE	ON/OFF	DDC MODULATION	SETPOINT ADJUST	DIFF. PRESS. SWITCH	CURRENT SWITCH	ON/OFF	OPEN/CLOSE CONTACT	ALARM CONTACT	AIRFLOW/GPM	STATIC/DIFF. PRESSURE	FAN/PUMP SPEED	TEMPERATURE	CO LEVEL (PPM)	HUMIDITY	POWER (AMPS/KW/KWH)		FAN FAILURE	EQUIPMENT FAILURE	HI/LO LIMIT	TEMPERATURE	SAFETY ALARM	WATER LEVEL/OVERFLOW	TIME SCHEDULE	RUN TIME	OVERRIDE PROGRAM	TREND DATA	
DSSA/DSSC SPLIT SYSTEMS			X																										TYPICAL OF 5	
START/STOP (OPERATION)						X																								
START/START (MONITORING)																														
ALARM SIGNAL (MONITORING)										X										X										
ERROR CODE (MONITORING)																			X											
TEMPERATURE SET POINT (OPERATION)						X								X																
TEMPERATURE SET POINT (MONITORING)						X								X							X									
CONSTANT VOLUME RTU, RTU-1 THRU RTU-5			X																						X			(1), TYPICAL OF 5		
COMPRESSOR	X																													
SPACE TEMPERATURE SENSOR														X														X		
SUPPLY AIR TEMPERATURE														X																
SUPPLY FAN STATUS								X											X											
SMOKE DETECTOR										X									X											
RETURN AIR DAMPER					X																									
KITCHEN SUPPLY AND EXHAUST FANS, KSF-1 & KEF-1	X																												TYPICAL OF 2	
FAN STATUS							X												X										TYPICAL OF 2	
HOOD SWITCH									X																					
ELECTRIC DUCT HEATER, EDH-1			X																											
FLOW SWITCH								X																						
SUPPLY AIR TEMPERATURE													X																	
CURRENT SWITCH								X											X											
APPARATUS BAY SUPPLY AND EXHAUST FANS	X																													TYPICAL OF 8
FAN STATUS							X												X											TYPICAL OF 8
TURNOUT GEAR, DECON AND RR FANS, EF-5 THRU EF-8	X																													
FAN STATUS							X												X											
INFRARED GAS HEATERS, GIH-1 THRU 4			X																											TYPICAL OF 4
EQUIPMENT STATUS							X												X											TYPICAL OF 4

(1) BACNET/IP SERIAL INTERFACE POINTS FROM THE RTUS.

CONTROL SEQUENCES

- DIRECT EXPANSION SPLIT SYSTEMS (DSSA/DSSC):**
  - Systems shall operate to maintain setpoint based on the units internal controls with no DDC interface.
  - All conduit and control wiring associated with the split systems shall be furnished and installed by the DDC contractor.
- CONSTANT VOLUME ROOFTOP UNITS RTU-1, RTU-2, RTU-3, RTU-4 AND RTU-5:**
  - RTUs shall be enabled/disabled by the DDC system in accordance with the building's scheduled occupancy. Anticipated Occupied hours are 24/7 (adjustable). Confirm schedule with Owner prior to programming system. RTUs shall be programmed to operate at 70°F to 75°F in summer (adjustable) and 68°F to 70°F in winter (adjustable). Wall thermostats shall be programmed to adjust temperatures in zones between the programmed setpoints.
  - New RTUs shall be interfaced to new Trane Tracer SC + with BacNet Controls.
  - RTU supply air fan shall run during Occupied mode and be off during Unoccupied mode. The fans shall be manually started and stopped from the HAND and OFF position of the HAND-OFF-AUTO switch the side of the unit and be automatically started and stopped by the unit's internal controls with the switch in the AUTO position. All safety devices shall operate with the switch in the HAND or AUTO position.
  - A hardwired (no DDC processing) fan stop signal from the fire alarm panel shall shut down the supply fans when activated. Activation of fan stop shall be input to DDC system for indication of fan stop only.
  - During occupied mode, the cooling section shall be staged to maintain space setpoint of 70°F (adjustable) by the unit's internal controls.
  - During occupied mode, the gas heating section shall be staged to maintain space setpoint of 68°F (adjustable) by the unit's internal controls.
  - The DDC system shall monitor and trend the unit supply air temperature.
  - The DDC system shall monitor the supply air fan via a current switch and initiate an alarm upon failure.
  - A BACnet/IP serial interface shall be provided with the RTUs to enable monitoring through the DDC system. Additional drivers and/or protocol converters shall be provided by the DDC system manufacturer as necessary to translate the information. See the Input/Output Summary list of interface points.
  - The DDC system shall accumulate the run time for the RTUs.
  - TERV-1, RTU-1, RTU-2, and RTU-3 shall be interlocked to run together. RTU-1, RTU-2, and RTU-3 are provided to satisfy the buildings variable heating and cooling requirements.
- RANGE HOOD SUPPLY AND EXHAUST FANS KSF-1 & KEF-1 AND ELECTRIC DUCT HEATER EDH-1:**
  - The kitchen range hood H-1 shall be enabled by a switch located on the face of the unit. The switch shall enable the unit's lights and turn on the kitchen hood supply air fan KSF-1 and kitchen exhaust air fan KEF-1.
  - The DDC shall monitor kitchen supply air fan KSF-1 and kitchen exhaust air fan KEF-1 for fan status and failure. DDC shall alarm at equipment failure.
  - Electric duct heater EDH-1 shall activate when the kitchen supply air temperature drops below 50°F (adjustable).
- APPARATUS BAY SUPPLY AND EXHAUST FANS SF-1, SF-2, SF-3, SF-4, EF-1, EF-2, EF-3, and EF-4:**
  - Provide a relay for each of the four fans for ventilation control of the apparatus bay. Upon activation of the relay by any of seven inputs, wired in parallel, the relay shall start fans SF-1, SF-2, SF-3, SF-4, EF-1, EF-2, EF-3 and EF-4, run them for 15 minutes (adjustable), then shut them down. The associated roof intake louver dampers shall open whenever the fans are running. Inputs used for activation shall include a manual pushbutton wall switch (momentary), four NOx sensors, four CO sensors and two infrared beam motion detectors.
  - CO/NOx exhaust system shall monitor the space carbon monoxide and nitrogen oxide levels and activate fans when:
    - Gas detected is above alarm level, associated exhaust fans and the visual alarms (at detectors and controller) shall be activated.
    - When gas detected drops back below 20 PPM, equipment and alarms shall be deactivated.
  - Alarm Levels:
    - CO alarm level shall be at 25 PPM (maximum allowable concentration for a 24 hour period).
    - NOx alarm level shall be at 1 PPM recommended exposure limit-short term.
  - The wall switches and the five gas detectors shall be located as shown on the drawings. In addition, provide two infrared beam motion detectors consisting of a transmitter and a receiver, to monitor truck traffic in and out of the main overhead doors. One pair of sensors (transmitter and receiver) shall cover the front three doors. A second pair of sensors shall cover the rear three doors. The sensors shall be mounted to the interior side of the wall, at 7' above the floor, with the transmitters to the right side of the right-hand doors and the receivers to the left side of the left-hand doors. (The purpose is to allow a truck leaving at either door to break the infrared beam.) Sensors shall be mounted so that they are not triggered by the opening and closing of the overhead doors, by normal foot traffic, or by vehicles lower than 7' in height.
  - Time delay relay shall be "Delay Off" type, similar to Magnecraft TDR series. Infrared beam motion detectors shall be similar to Optex USA model OPT-AX70T. Provide all mounting hardware, relays, transformers, panels and accessories, as required for a complete operable control system.
- TURNOUT GEAR, DECON ROOM, AND RESTROOM FANS EF-5, EF-6, EF-7 & EF-8:**
  - Fan shall operate continuously with no interlocks from the DDC system.
  - The DDC shall monitor turnout gear, decon room, and restroom fans EF-5, EF-6, EF-7 & EF-8 for fan status and failure. DDC shall alarm at equipment failure.
- GAS INFRARED HEATERS** shall be controlled by their own wall mounted thermostat, set at 60°F. See floorplans for thermostat locations. DDC shall monitor gas infrared heaters for equipment status and failure. DDC shall alarm at equipment failure.



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 PROJECT

HVAC CONTROLS  
 DESIGN SP DRAWN SP CHECKED TLN

DATE	NO.	DESCRIPTION
07/08/21		50% OWNER REVIEW
08/24/21		90% OWNER REVIEW

10/26/2021  
 DATE  
 A21-006  
 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER  
**M4.2**  
 RELEASE

### PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	PIPE SIZE		MOUNTING HEIGHT
		CW	HW	
EDFD	DUAL DRINKING FOUNTAIN	1/2"	-	(1)
WC	WALL HUNG WATER CLOSET	1"	-	(1)
WCH	ADA WALL HUNG WATER CLOSET	1"	-	(1)
L1	COUNTER LAVATORY	1/2"	1/2" (2)	(1)
L2	ADA WALL HUNG LAVATORY	1/2"	1/2" (2)	(1)
S1	ONE COMPARTMENT SINK	1/2"	1/2"	(1)
S2	ADA TWO COMPARTMENT SINK	1/2"	1/2"	(1)
S3	HAND WASH COUNTER SINK	1/2"	1/2"	(1)
SS1	SERVICE SINK 24"x24"	1/2"	1/2"	(1)
SS2	SERVICE SINK 24"x36"	1/2"	1/2"	(1)
LS	LAUNDRY SINK	1/2"	1/2"	(1)
SHR	SHOWER	1/2"	1/2"	(1)
SHRH	ADA SHOWER	1/2"	1/2"	(1)

- NOTES:  
 1. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.  
 2. PROVIDE THERMOSTATIC MIXING VALVE (TMV) BELOW FIXTURE AND SET TO DELIVER 105°F HOT WATER.

### PLUMBING SYMBOLS

	DEMOLISHED PIPE
	SOIL OR WASTE PIPING ABOVE FLOOR SLAB
	SOIL OR WASTE PIPING BELOW FLOOR SLAB
	VENT PIPING
	RAINWATER PIPING
	EMERGENCY RAINWATER PIPING
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATING
	GATE VALVE
	CHECK VALVE
	UNION
	BALL VALVE
	GLOBE VALVE
	BALANCING VALVE
	WATER HAMMER ARRESTOR (WHA)
	WALL HYDRANT (WH) OR HOSE BIBB (HB)
	WALL CLEANOUT (WCO)
	GAS PIPING
	GAS PRESSURE REGULATOR
	GAS VALVE

### ABBREVIATIONS

A	AIR/AIR COMPRESSOR
ABV.	ABOVE
AR	ACID RESISTANT
ARV	ACID RESISTANT VENT
ARW	ACID RESISTANT WASTE
B.F.P.	BACKFLOW PREVENTER
BEL.	BELOW
CLG.	CEILING
CO	FLOOR CLEANOUT
CW	COLD WATER
D.I.	DEIONIZED
ERW	EMERGENCY RAINWATER (SECONDARY)
FD	FLOOR DRAIN
FS	FLOOR SINK
GA	GAUGE
GALV.	GALVANIZED
GW	GREASE WASTE
HB	HOSE BIBB
HD	HUB DRAIN
HPW	HIGH PURITY WATER (DEIONIZED)
HR	HOSE REEL
HW	HOT WATER
HWC	HOT WATER CIRCULATING
I.E.	INVERT ELEVATION
MAX	MAXIMUM
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.C.	ON CENTER
P.R.V.	PRESSURE REDUCING VALVE
RW	RAINWATER (PRIMARY)
S	SANITARY
TYP.	TYPICAL
V	VENT
VA	VALVE
VP	VACUUM PUMP
W	WASTE
WB	WASHER BOX
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WHG	WATER HEATER - GAS

### PLUMBING GENERAL NOTES

- COORDINATE PIPING WITH DUCTWORK, LIGHTING FIXTURES, STRUCTURE, AND ARCHITECTURAL CEILING HEIGHTS.
- MAKE FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, INCLUDING EQUIPMENT PROVIDED UNDER OTHER DIVISIONS.
- ALL PIPING DROPS IN WALLS AND CHASES SHALL BE SECURED TO THE WALLS.
- CAP ALL PIPING ENDS DURING CONSTRUCTION TO PREVENT ENTRY OF DEBRIS.
- MOUNT WALL HYDRANTS OUTSIDE 18" ABOVE FINISHED GRADE.
- ALL FIXTURES WITH A HOSE CONNECTION OUTLET SHALL BE PROVIDED WITH AN INTEGRAL VACUUM BREAKER.
- PAINT ALL NATURAL GAS PIPING ALONG EXTERIOR WALLS TO MATCH BUILDING COLOR. PAINT GAS PIPING ON ROOF SAFETY YELLOW.
- VERIFY EXACT LOCATIONS AND REQUIREMENTS OF FIXTURES AND EQUIPMENT PRIOR TO PROCEEDING WITH THE WORK.
- COORDINATE EXACT LOCATIONS OF KITCHEN DRAINS WITH ARCHITECTURAL DRAWINGS.
- CONCEAL ALL PIPING IN FINISHED PORTIONS OF THE BUILDING UNLESS NOTED OTHERWISE.
- DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS AND ELEVATIONS OF ALL FIXTURES AND EQUIPMENT.
- CONNECTIONS BETWEEN TWO DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED AS SPECIFIED.
- WHERE STRUCTURE IS DAMAGED DURING CONSTRUCTION AND INSTALLATION OF EQUIPMENT OR FIXTURES, THE CONTRACTOR SHALL REPAIR THE DAMAGED AREA TO MATCH THE PROPOSED CONDITION.
- THE COMPLETE WASTE SYSTEM SHALL BE RODED-OUT AND FLUSHED CLEAN PRIOR TO FINAL INSPECTION OR TURNING THE BUILDING OVER TO THE OWNER.
- FLUSH, CLEAN, AND DISINFECT THE ENTIRE DOMESTIC WATER PIPING SYSTEM AS SPECIFIED.
- WHERE PIPING VISIBLY PENETRATES THE WALLS, INSTALL ESCUTCHEONS TO COVER SLEEVES AND/OR CAULKING THROUGHOUT FINISHED AREAS.
- ALL FIXTURES AND EQUIPMENT SHALL BE KEPT CLEAN DURING ALL CONSTRUCTION AND NOT USED DURING CONSTRUCTION.
- HOT AND COLD WATER PIPING SYSTEM SHALL BE INSULATED THROUGHOUT THE PROJECT.
- GAS CONNECTION TO EQUIPMENT SHALL BE MADE WITH DIRT LEG, VALVE, AND UNION.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING GAS PIPING HANGER WITH LATERAL BRACING DETAILS. SUBMIT SHOP DRAWINGS TO ENGINEER AND COUNTY BUILDING PLAN REVIEW FOR APPROVAL.
- ALL ABOVE CEILING AREAS ARE AIR PLENUM AREAS. ALL MATERIALS LOCATED WITHIN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- SEE CIVIL DRAWINGS FOR EXTERIOR BACKFLOW PREVENTER SERVING DOMESTIC WATER SYSTEM AND EXTERIOR GREASE INTERCEPTOR SERVING KITCHEN WASTE SYSTEM.
- PIPE MATERIALS FOR EACH SYSTEM ARE LISTED IN SPECIFICATION SECTION 221005 AND ARE AS FOLLOWS:  
 A. SOIL, WASTE, AND VENT PIPING ABOVE SLAB: HUBLESS CAST IRON WITH STAINLESS STEEL AND NEOPRENE COUPLINGS.  
 B. SOIL, WASTE, AND VENT PIPING BELOW SLAB: HUB AND SPIGOT CAST IRON WITH GASKET PUSH ON JOINTS.  
 C. DOMESTIC WATER SYSTEM: TYPE 'L' HARD COPPER WITH SOLDER JOINTS ABOVE GRADE. TYPE 'K' HARD COPPER WITH SILVER ALLOY JOINTS BELOW GRADE.
- ALL PLUMBING FIXTURES SHALL BE HIGH EFFICIENCY TYPE MEETING GEORGIA AMENDMENTS TO THE INTERNATIONAL PLUMBING CODE. SEE SPECIFICATION SECTION 22.4000.
- PROVIDE TYPE 'X' WATER HAMMER ARRESTOR ON CW LINE SERVING WATER CLOSETS AND URINALS IN CHASE.
- PROVIDE 24x24 ACCESS PANEL AT ALL VALVE LOCATIONS AT GYPSUM BOARD CEILINGS.
- ALL UNDER SLAB PLUMBING PIPING SHALL BE BELOW GRAVEL BED. IT IS NOT ACCEPTABLE TO RUN HORIZONTAL PIPING IN GRAVEL BED.
- VENT THROUGH ROOF TERMINATIONS SHALL BE INSTALLED A MINIMUM 10FT FROM ANY AIR INTAKE OPENING OF HVAC UNITS.
- GAS PRESSURE REGULATORS SHALL BE INSTALLED A MINIMUM 10FT FROM ANY AIR INTAKE OPENING OF HVAC UNITS.
- PROVIDE TRAP GUARD IN ALL FLOOR DRAINS AND HUB DRAINS.

### PLUMBING PUMP SCHEDULE

MARK	TYPE	LOCATION	SERVES	GPM	DEV. HEAD	HP	RPM	VOLTAGE	DESIGN BASIS	REMARKS
HWCP1	IN-LINE	MECHELEC ROOM 125	HOT WATER CIRCULATING	5	20 FT.	1/6	1750	120v/1e	GRUNDFOS UPS 26-99 BF	-
HWCP2	IN-LINE	MECHELEC ROOM 125	HOT WATER CIRCULATING	5	20 FT.	1/6	1750	120v/1e	GRUNDFOS UPS 26-99 BF	-
HWCP3	IN-LINE	MECHELEC 157	HOT WATER CIRCULATING	5	20 FT.	1/6	1750	120v/1e	GRUNDFOS UPS 26-99 BF	-
HWCP4	IN-LINE	MECHELEC 157	HOT WATER CIRCULATING	5	20 FT.	1/6	1750	120v/1e	GRUNDFOS UPS 26-99 BF	-

### GAS EQUIPMENT SCHEDULE

MARK	DESCRIPTION	CFH
GENERATOR	GENERATOR	2188
RANGE	KITCHEN RANGE	216
GRILL	OUTDOOR GRILL	48
RTU-1	ROOFTOP UNIT	60
RTU-2	ROOFTOP UNIT	80
RTU-3	ROOFTOP UNIT	90
RTU-4	ROOFTOP UNIT	50
RTU-5	ROOFTOP UNIT	100
GIH-1	GAS HEATER	60
GIH-2	GAS HEATER	60
GIH-3	GAS HEATER	60
GIH-4	GAS HEATER	60
TERV-1	ENERGY RECOVERY UNIT	150
WHG1	WATER HEATER	199
WHG2	WATER HEATER	199
WHG3	WATER HEATER	199
WHG4	WATER HEATER	199
WHG5	WATER HEATER	199
D1	DRYER	22.5
D2	DRYER	22.5
TOTAL CFH		4252

### GAS WATER HEATER SCHEDULE

MARK	LOCATION	SIZE	GAS INPUT	MIN. RECOVERY	DESIGN BASIS	REMARKS
WHG1	MECHELEC 125	119 GAL.	199 MBH	230 GPH@100°F RISE	RHEEM RUJD HE119-199	(1)(2)(3)
WHG2	MECHELEC 125	119 GAL.	199 MBH	230 GPH@100°F RISE	RHEEM RUJD HE119-199	(1)(2)(3)
WHG3	MECHELEC 157	119 GAL.	199 MBH	230 GPH@100°F RISE	RHEEM RUJD HE119-199	(1)(2)(4)
WHG4	MECHELEC 157	119 GAL.	199 MBH	230 GPH@100°F RISE	RHEEM RUJD HE119-199	(1)(2)(4)
WHG5	MECHELEC 157	119 GAL.	199 MBH	230 GPH@100°F RISE	RHEEM RUJD HE119-199	(1)(2)(4)

- NOTES:  
 1. ROUTE CPVC INTAKE AND EXHAUST PIPING TO EXTERIOR OF BUILDING AND TERMINATE OUTDOORS WITH MANUFACTURER RECOMMENDED TERMINATION KIT.  
 2. MOUNT WATER HEATER ON 4" CONCRETE PAD ON FLOOR.  
 3. SEE DETAIL 2/P1.3.  
 4. SEE DETAIL 3/P1.3.

### GAS PRESSURE REGULATOR SCHEDULE

MARK	LOCATION	CONNECTED LOAD	INLET PRESSURE (PSIG)	OUTLET PRESSURE (PSIG)	REMARKS
GPR1	GENERATOR PAD	2188 CFH	2.0	10.0" W.C.	(1)
GPR2	OUTDOOR GRILL	48 CFH	2.0	4.0" W.C.	(1)
GPR3	MECHELEC 125	199 CFH	2.0	10.0" W.C.	(1)
GPR4	MECHELEC 125	199 CFH	2.0	10.0" W.C.	(1)
GPR5	KITCHEN 110	216 CFH	2.0	4.0" W.C.	(1)
GPR6	APPARATUS BAY	80 CFH	2.0	10.0" W.C.	(1)
GPR7	APPARATUS BAY	80 CFH	2.0	10.0" W.C.	(1)
GPR8	APPARATUS BAY	80 CFH	2.0	10.0" W.C.	(1)
GPR9	APPARATUS BAY	80 CFH	2.0	10.0" W.C.	(1)
GPR10	MECHELEC 157	199 CFH	2.0	10.0" W.C.	(1)
GPR11	MECHELEC 157	199 CFH	2.0	10.0" W.C.	(1)
GPR12	MECHELEC 157	199 CFH	2.0	10.0" W.C.	(1)
GPR13	ROOF	100 CFH	2.0	10.0" W.C.	(1)
GPR14	ROOF	50 CFH	2.0	10.0" W.C.	(1)
GPR15	ROOF	80 CFH	2.0	10.0" W.C.	(1)
GPR16	ROOF	80 CFH	2.0	10.0" W.C.	(1)
GPR17	ROOF	150 CFH	2.0	10.0" W.C.	(1)
GPR18	ROOF	60 CFH	2.0	10.0" W.C.	(1)
GPR19	LAUNDRY 121	22.5 CFH	2.0	10.0" W.C.	(1)
GPR20	DECON ROOM 142	22.5 CFH	2.0	10.0" W.C.	(1)

- NOTES:  
 1. SEE DETAIL 3/P1.2.

### AIR COMPRESSOR SCHEDULE

MARK	LOCATION	TANK SIZE	VOLTAGE	HP	COMPRESSOR CAPACITY	DESIGN BASIS	REMARKS
AC1	EQUIPMENT STORAGE 145	80 GAL.	230v1e	5	15.8 CFM @ 90 PSI	KOBALT XC802000	(1)

- NOTES:  
 1. AIR COMPRESSOR TO BE TANK MOUNTED.

### LINT INTERCEPTOR SCHEDULE

MARK	LOCATION	MINIMUM FLOW RATE	INLET/OUTLET SIZE	DESIGN BASIS	REMARKS
L11	EQUIPMENT STORAGE 145	350 GPM	8"	J.R. SMITH 8910-350	(1)(2)
L12	LAUNDRY 121	20 GPM	4"	J.R. SMITH 8910-20	(1)(2)

- NOTES:  
 1. PROVIDE EXTENSION AS REQUIRED SO COVER IS FLUSH WITH FINISHED FLOOR.  
 2. SEE DETAIL 5/P1.2.

### MIXING VALVE SCHEDULE

MARK	LOCATION	SERVES	TYPE	CAPACITY (GPM)	ALLOWABLE PRESSURE DROP (PSI)	ASSE STANDARD	DESIGN BASIS	REMARKS
MV1	MECHELEC 125	DISTRIBUTION	HI-LOW	30	10	1017	POWERS SH1430	(2)
MV2	MECHELEC 157	DISTRIBUTION	HI-LOW	20	10	1017	POWERS SH1430	(2)
TMV	VARIES	LAVATORIES	SINGLE VALVE	0.5	5	1070	POWERS LFG480	(1)(2)

- NOTES:  
 1. ROUTE HOT AND COLD WATER PIPING TO TMV AND ROUTE TEMPERED WATER FROM TMV TO FIXTURE.  
 2. PROVIDE WITH WALL MOUNTING BRACKET.



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GILLEM PUBLIC SAFETY BUILDING

2090 Anvil Block Rd.  
 Forest Park, GA 30294

PROJECT

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PLUMBING GENERAL NOTES AND SCHEDULES

DESIGN: WKM  
 DRAWN: WKM  
 CHECKED: TLN

SHEET TITLE

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RELEASE

DATE: 10/26/21  
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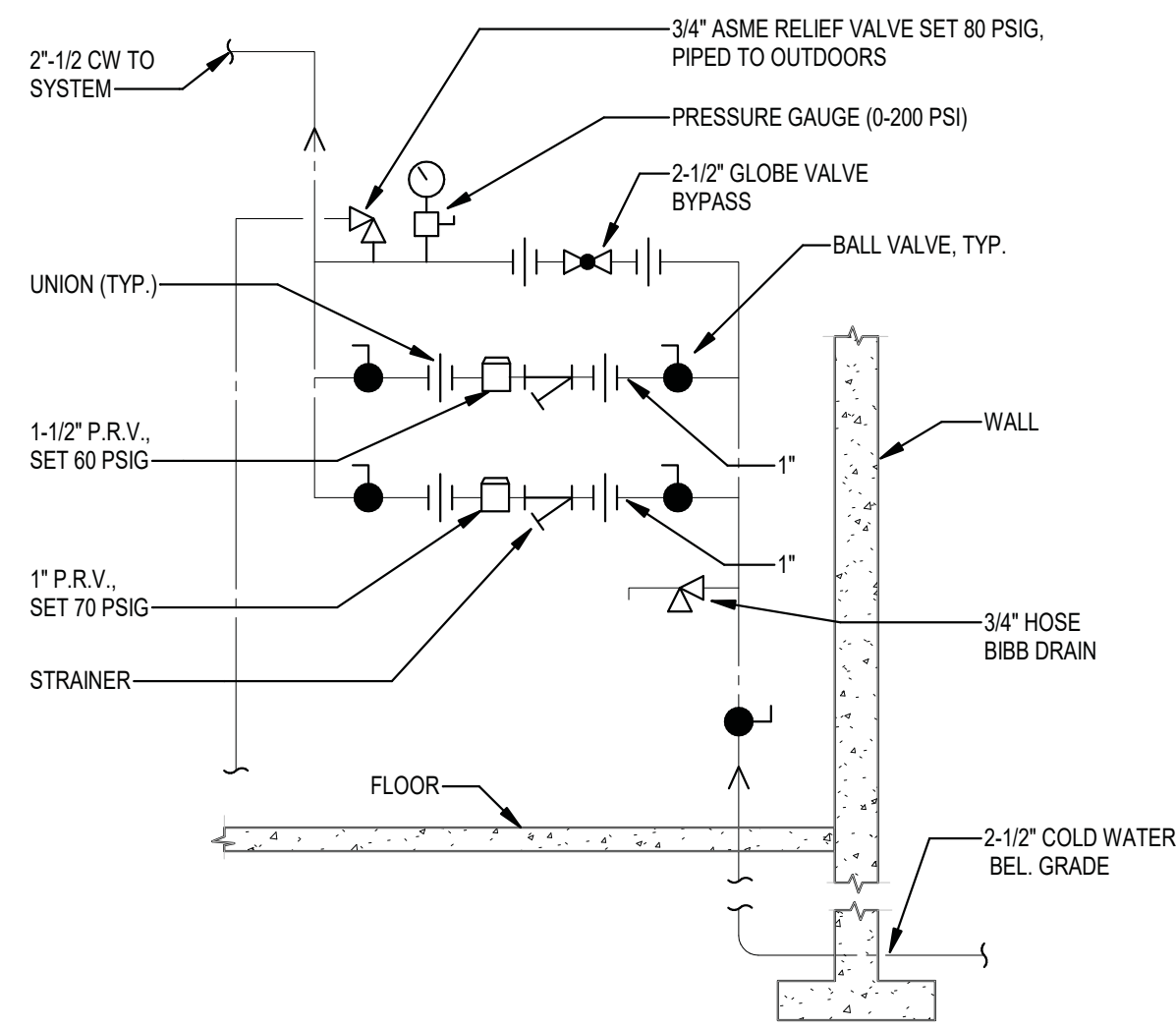
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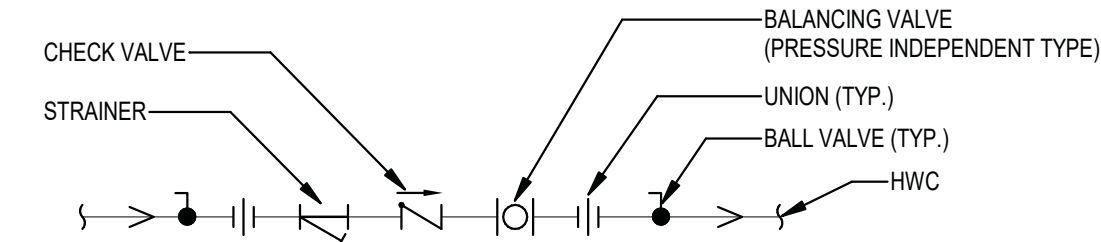
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P1.1

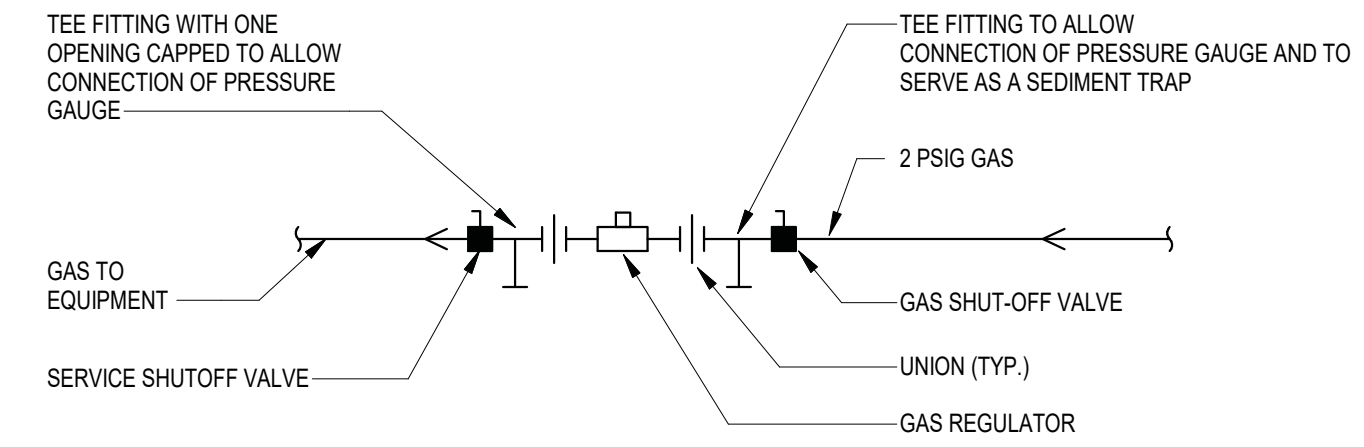




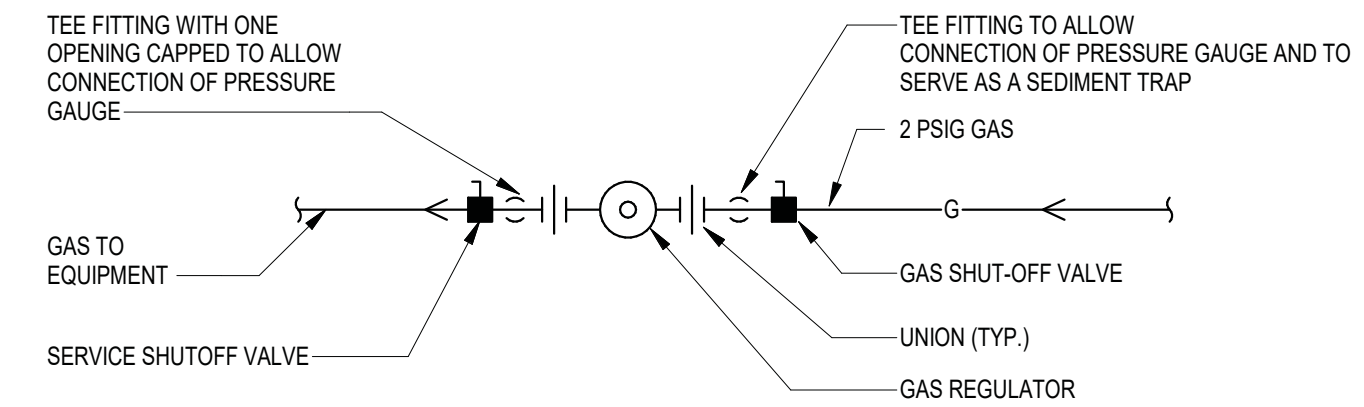
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**2 HOT WATER RECIRCULATING FLOW BALANCING ASSEMBLY**  
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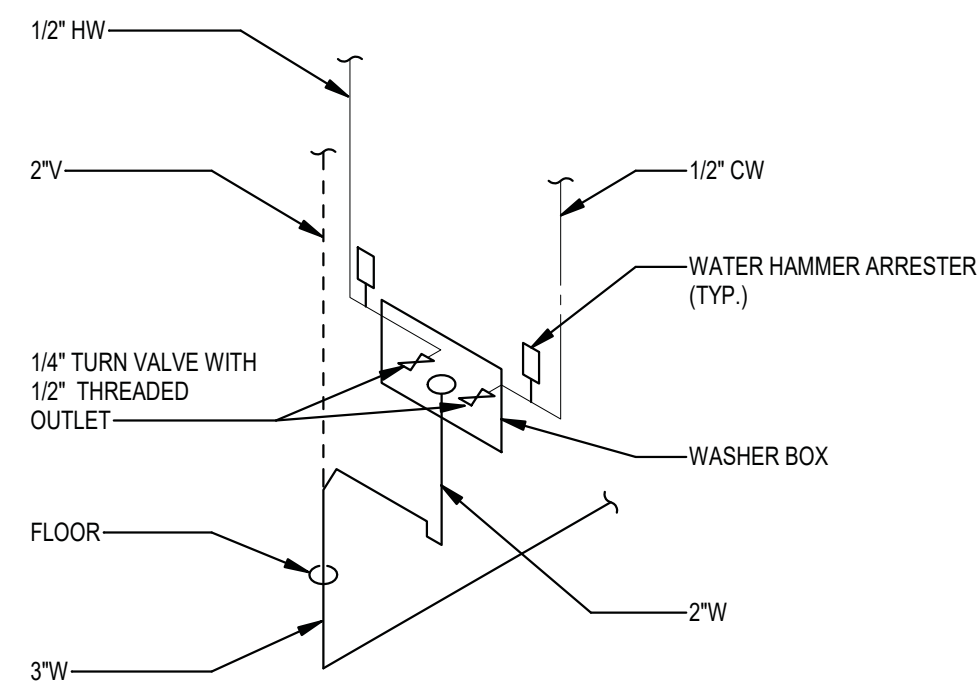


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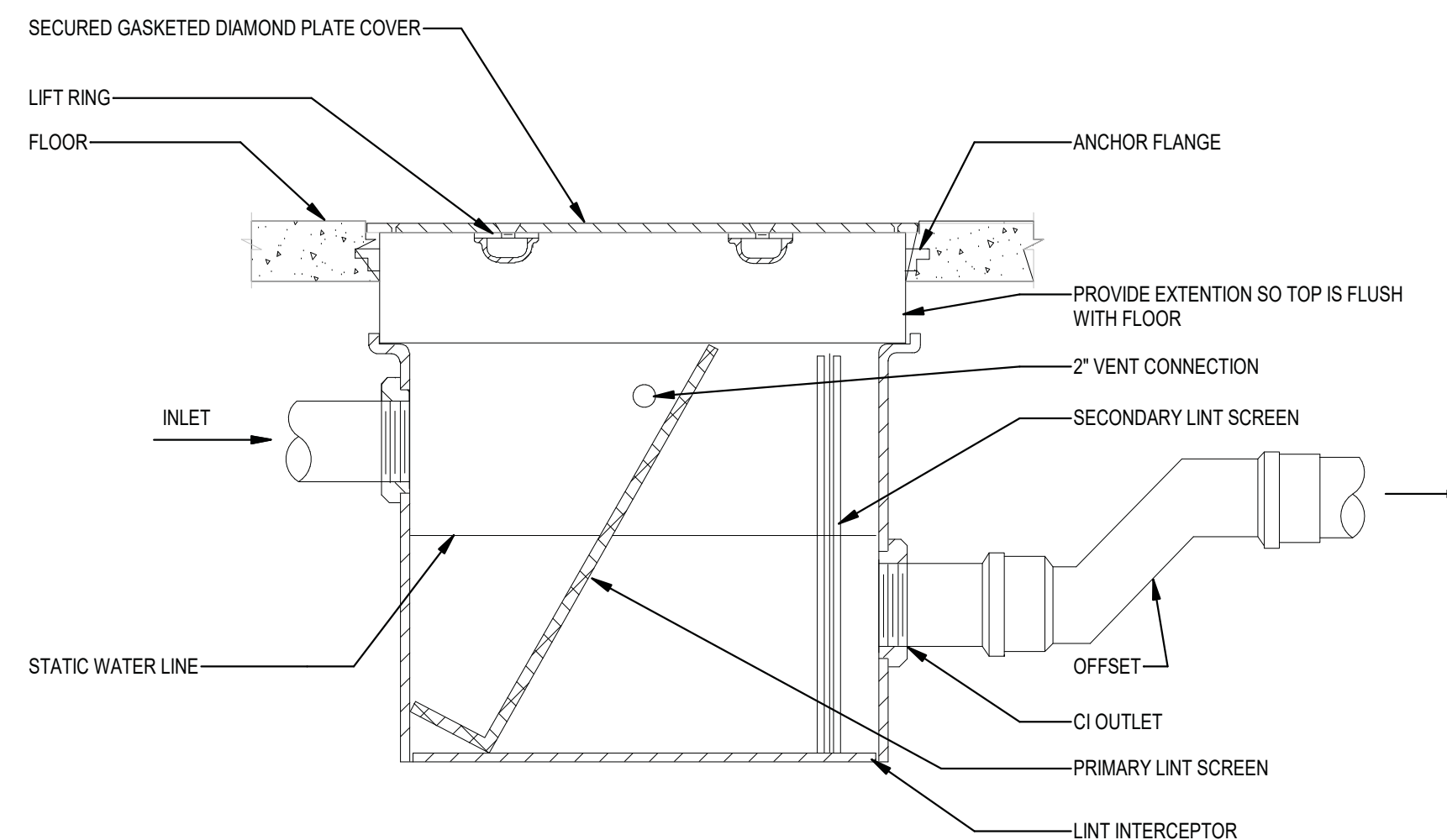


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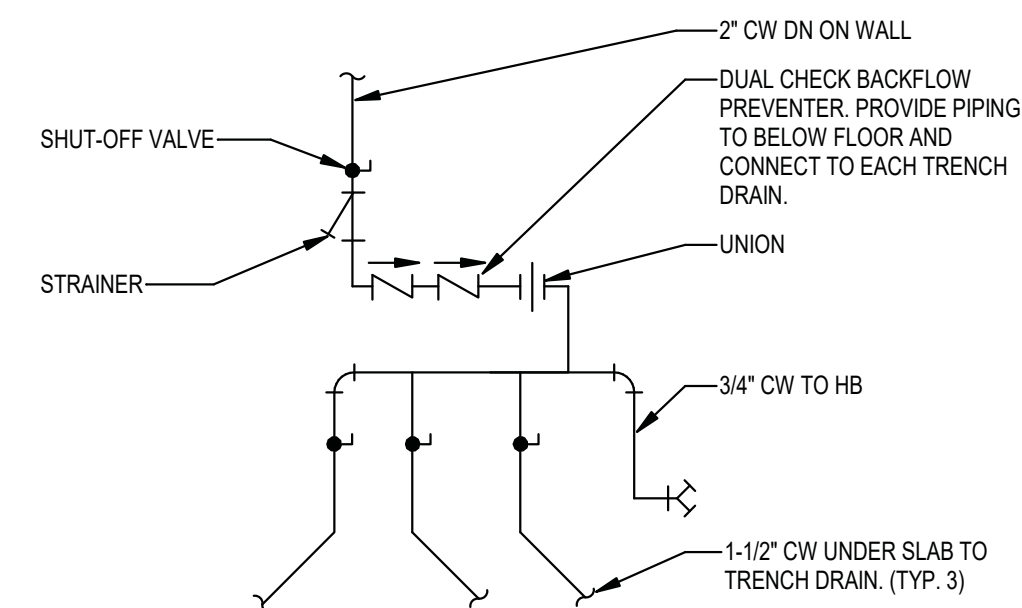
**3 GAS PRESSURE REGULATOR DETAIL**  
SCALE: NO SCALE



**4 WASHER BOX PIPING**  
SCALE: NO SCALE



**5 LINT INTERCEPTOR DETAIL**  
SCALE: NO SCALE



**6 TRENCH FLUSH SYSTEM**  
SCALE: NO SCALE

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DRAWN	WKM	

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**P1.2**

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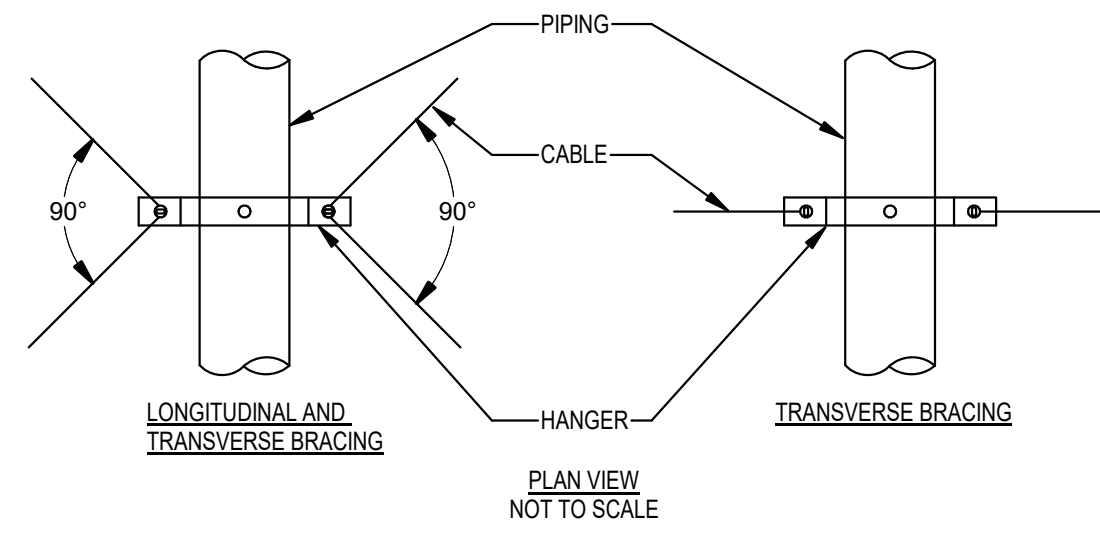
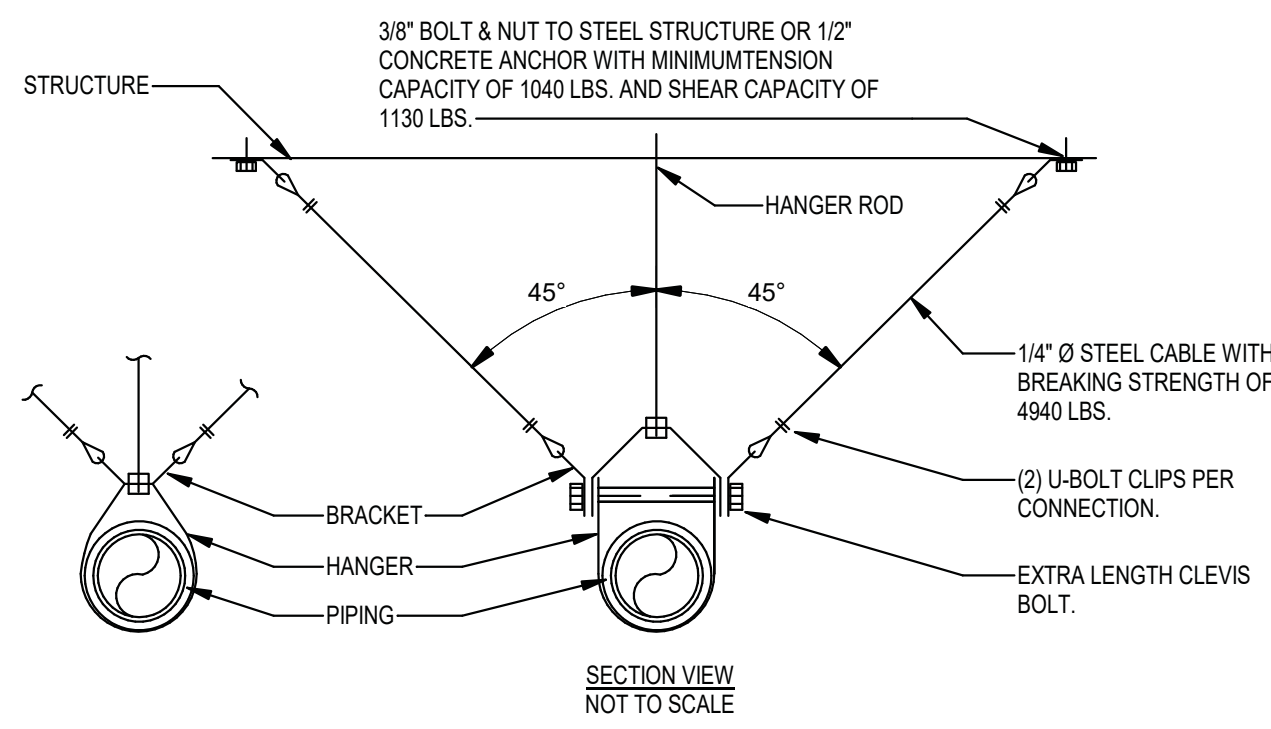
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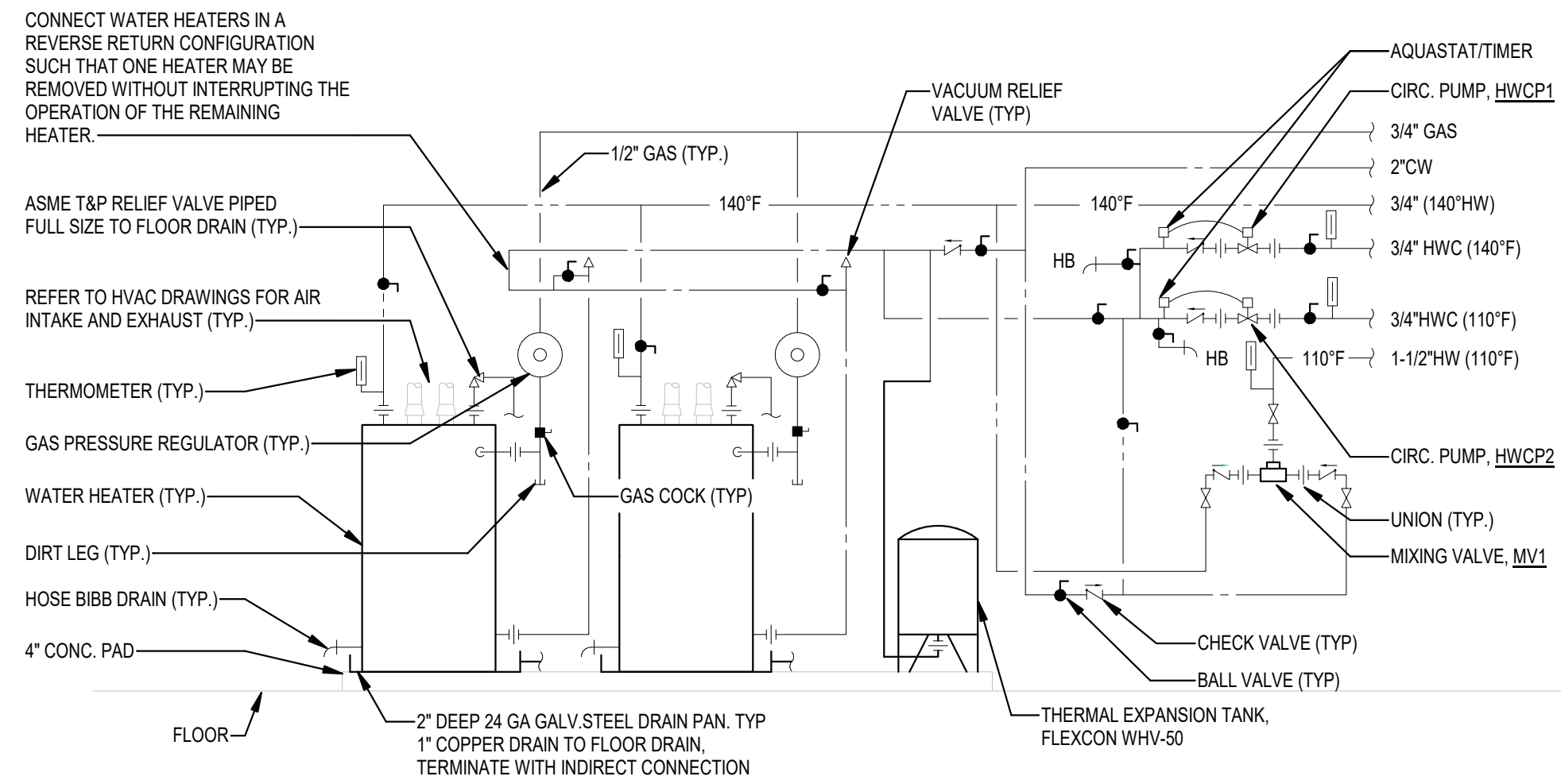
1. PROVIDE SEISMIC RESTRAINTS ON ALL FLEXIBLE AND FLEXIBLY MOUNTED PLUMBING, GAS, SPRINKLER PIPING, AND EQUIPMENT EXCEPT THAT SEISMIC RESTRAINTS SHALL NOT BE REQUIRED PER THE EXCEPTIONS GIVEN IN SECTION 21 0548 AND 22 0548 OF THE SPECIFICATIONS.
2. SEISMIC RESTRAINTS ARE SIZED IN ACCORDANCE WITH THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE 2012 FOR SEISMIC RISK CATEGORY IV AND SEISMIC DESIGN CATEGORY "C". OTHER METHODS OF RESTRAINT IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL ARE ACCEPTABLE.
3. SEISMIC RESTRAINTS FOR FLEXIBLY MOUNTED PIPING SHALL BE PROVIDED AS SHOWN IN "SEISMIC RESTRAINT DETAIL".
4. ALL BUILDING PLUMBING AND FIRE PROTECTION EQUIPMENT, PIPING AND ASSOCIATED HANGERS AND RESTRAINTS ARE REQUIRED TO REMAIN OPERABLE FOLLOWING THE DESIGN EARTHQUAKE, AND SHALL BE CONSIDERED DESIGNATED SEISMIC EQUIPMENT.
5. ALL SEISMIC BRACING SHALL BE ATTACHED TO THE BOTTOM CHORD OF THE ROOF JOIST.



PROVIDE TRANSVERSE AND LONGITUDINAL BRACING AT THE ENDS OF PIPES AND AT 80 FEET ON CENTER. PROVIDE TRANSVERSE BRACING AT 40 FEET ON CENTER.

NOTE:  
 1. ALL NATURAL GAS PIPING SUPPORTED BY THE BUILDING STRUCTURE SHALL BE PROVIDED WITH RESTRAINTS WITHOUT EXCEPTION.

**1 PLUMBING SEISMIC RESTRAINT DETAIL AND NOTES**  
 P1.3 SCALE: NO SCALE



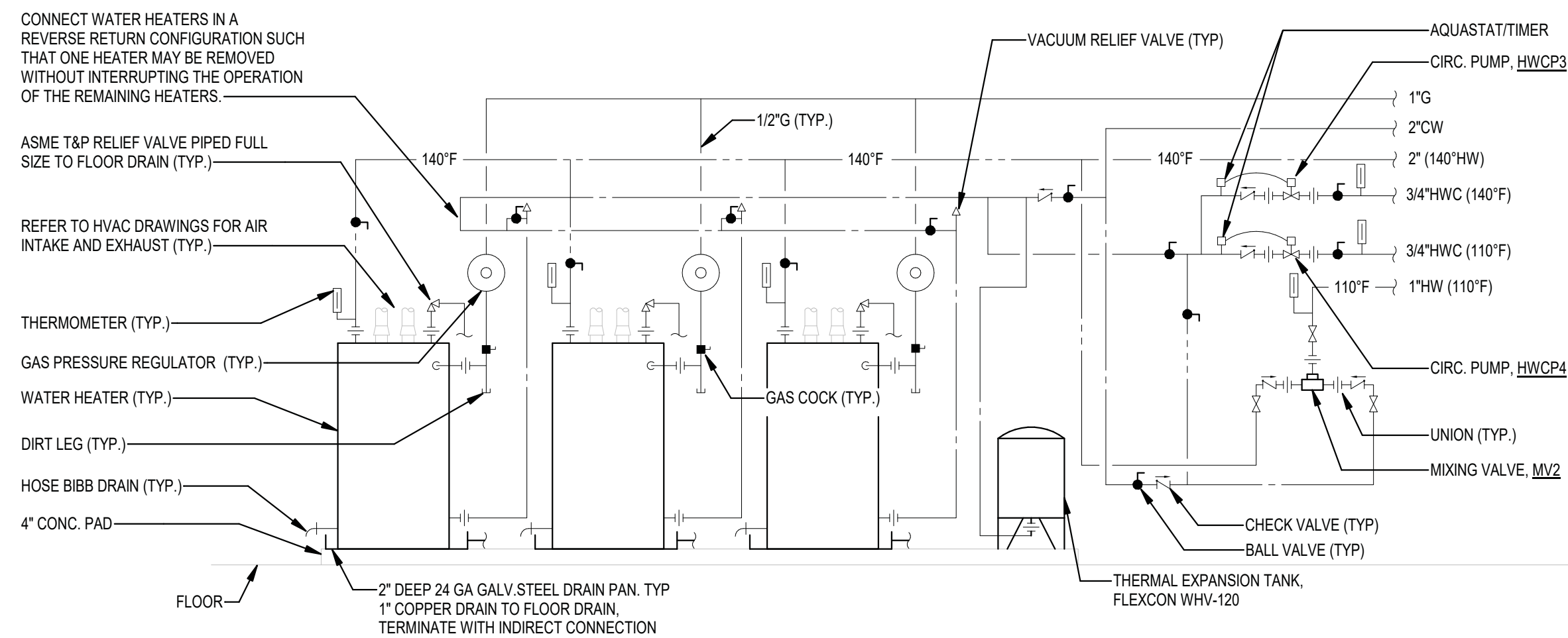
**AQUASTAT SEQUENCE OF OPERATION:**

1. HOT WATER CIRCULATION PUMP SHALL BE TURNED OFF WHEN RETURNED HOT WATER TEMPERATURE REACHES HOT WATER SUPPLY TEMPERATURE.
2. HOT WATER CIRCULATION PUMP SHALL TURN ON WHEN RETURNED HOT WATER TEMPERATURE IS 10°F LOWER THAN HOT WATER SUPPLY TEMPERATURE.

**NOTES:**

1. WATER HEATERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

**2 WATER HEATER PIPING, WHG 1 & 2**  
 P1.3 SCALE: NO SCALE



**AQUASTAT SEQUENCE OF OPERATION:**

1. HOT WATER CIRCULATION PUMP SHALL BE TURNED OFF WHEN RETURNED HOT WATER TEMPERATURE REACHES HOT WATER SUPPLY TEMPERATURE.
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**NOTES:**

1. WATER HEATERS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

**3 WATER HEATER PIPING, WHG 3, 4, & 5**  
 P1.3 SCALE: NO SCALE

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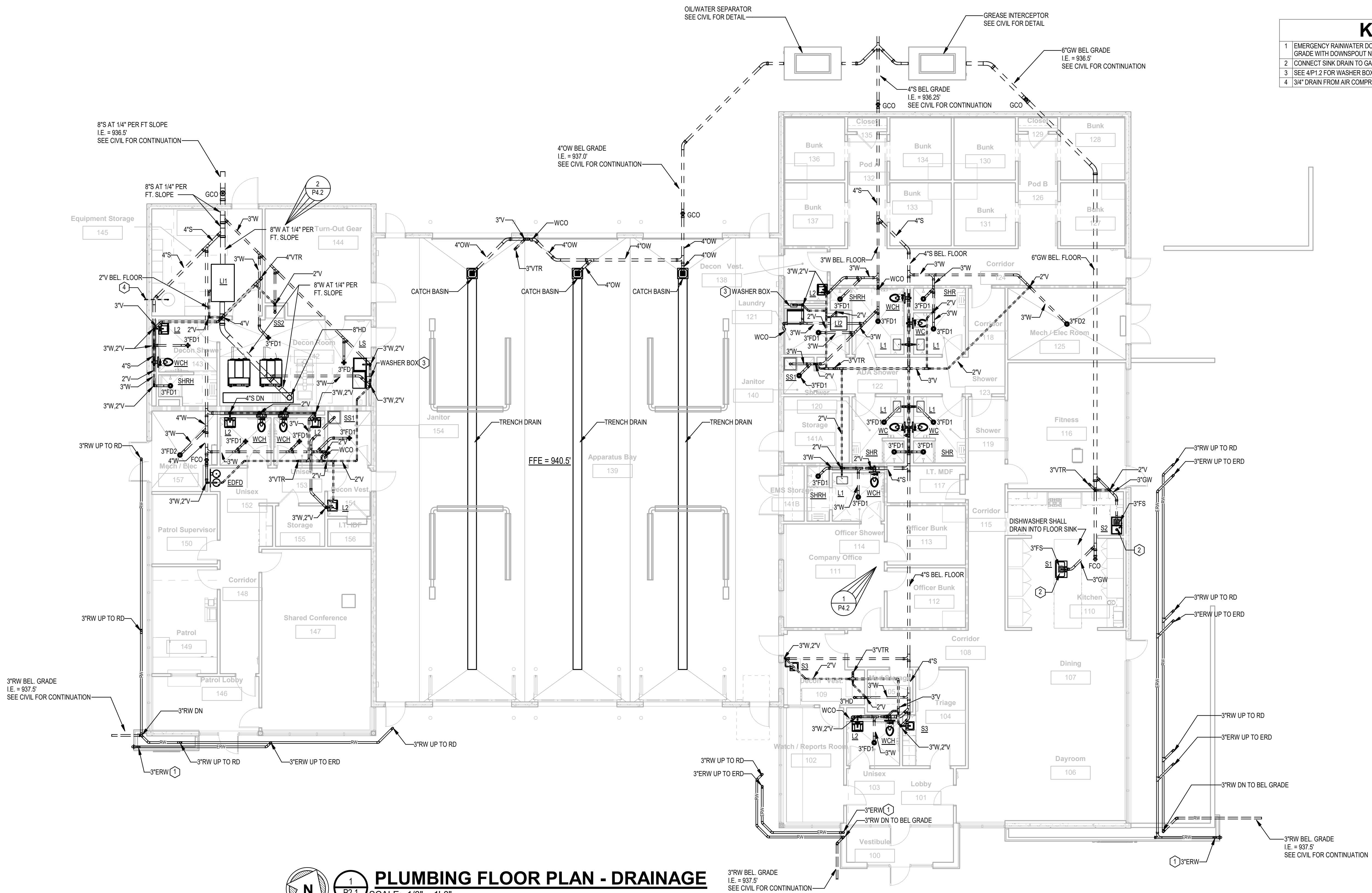
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**PLUMBING FLOOR PLAN - DRAINAGE**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET

**PLUMBING GENERAL NOTES**

1 SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

**KEYNOTES**

- EMERGENCY RAINWATER DOWN IN WALL OR CHASE. TERMINATE 18" ABOVE FINISHED GRADE WITH DOWNSPOUT NOZZLE.
- CONNECT SINK DRAIN TO GARBAGE DISPOSAL MOUNTED UNDER SINK.
- SEE 4P1.2 FOR WASHER BOX PIPING DETAIL.
- 3/4" DRAIN FROM AIR COMPRESSOR. PIPE DRAIN THROUGH WALL TO BUILDING EXTERIOR.

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PLUMBING FLOOR PLAN - DRAINAGE	CHECKED TLN
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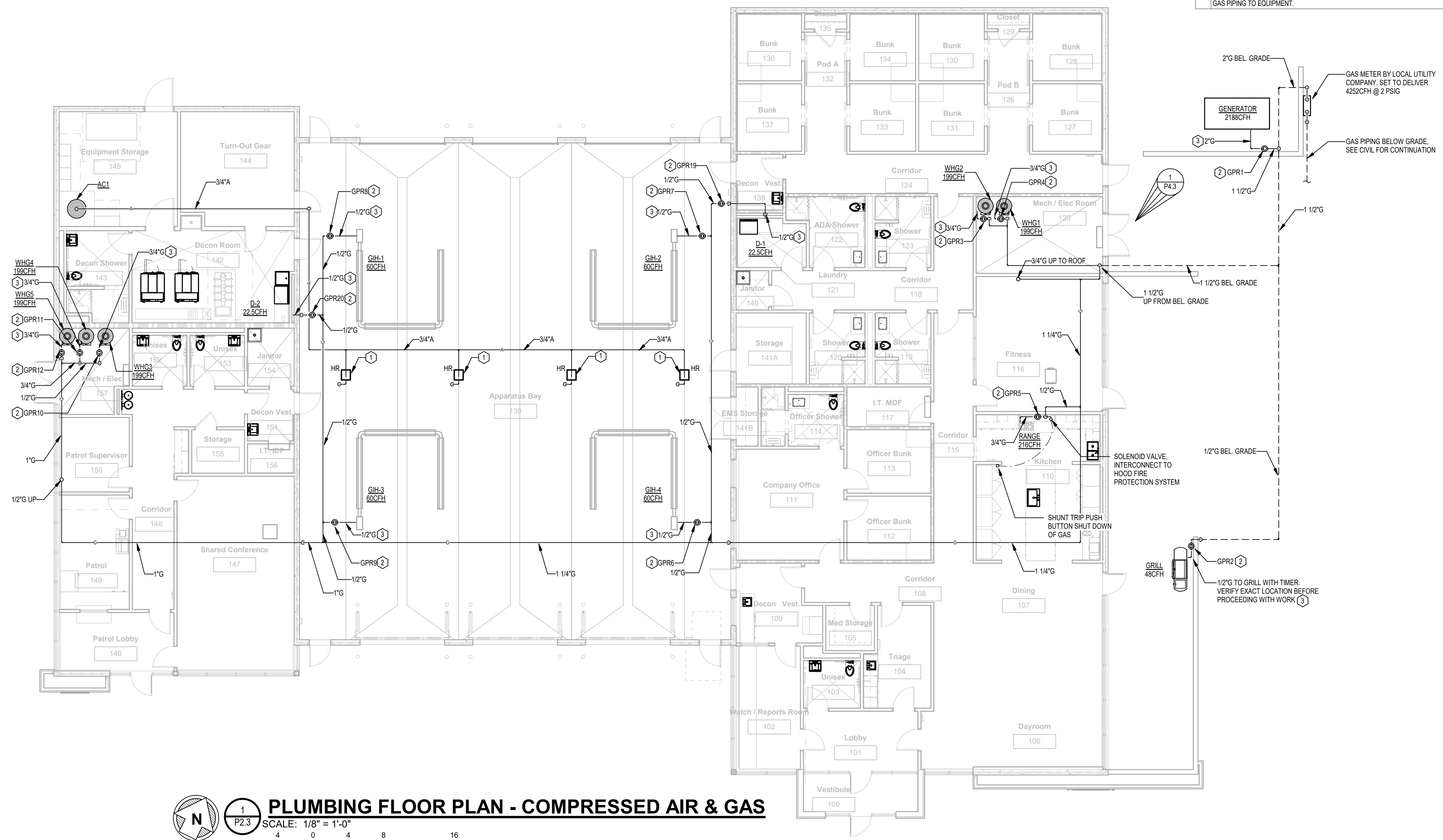
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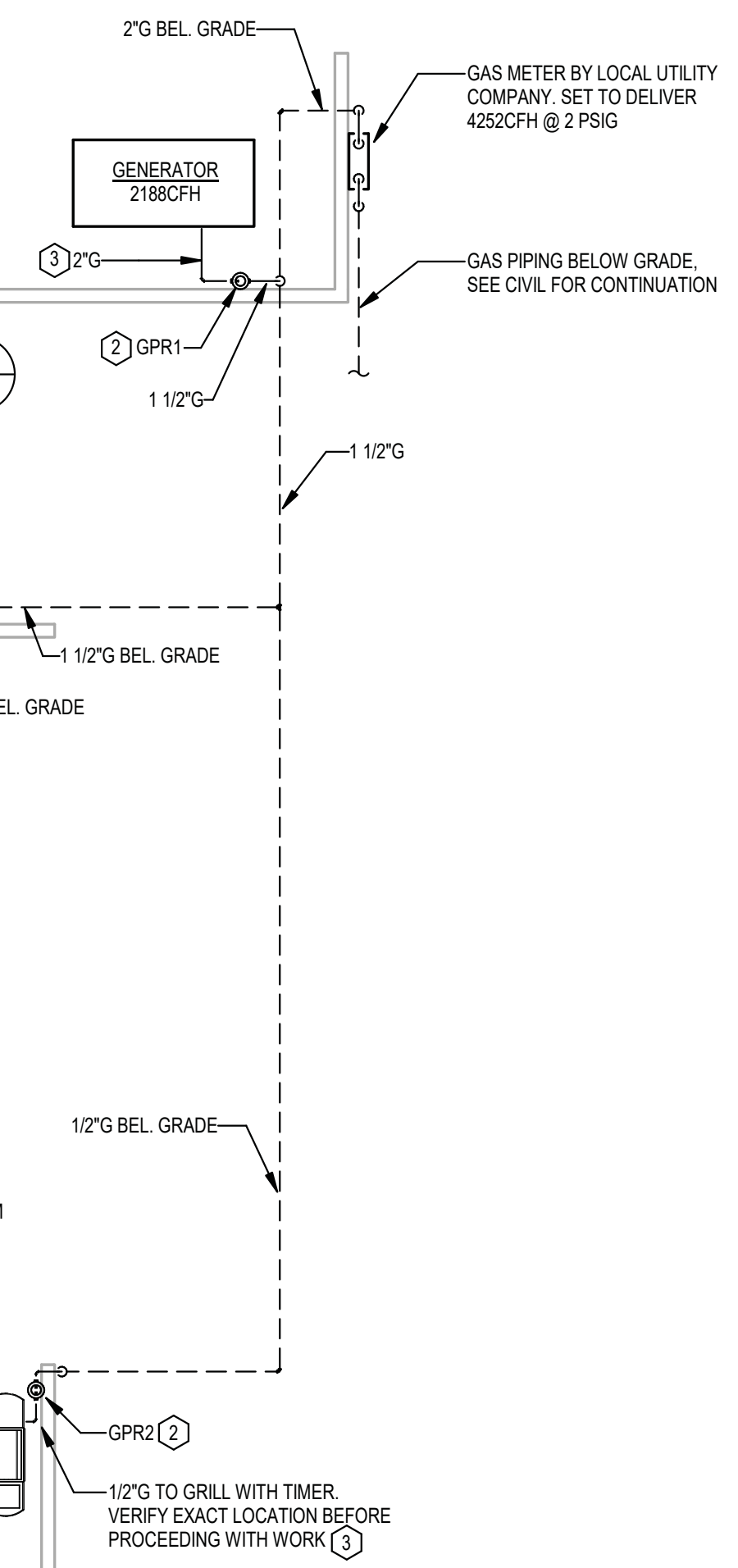
**PLUMBING FLOOR PLAN - COMPRESSED AIR & GAS**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET

**PLUMBING GENERAL NOTES**

- SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

**KEYNOTES**

- ROUTE COMPRESSED AIR TO HOSE REEL AT CEILING WITH HOSE DROP DOWN TO 7'-0" ABOVE FINISHED FLOOR.
- GAS PRESSURE REGULATOR, SEE SCHEDULE AND DETAIL 3/P1.2.
- GAS PIPING TO EQUIPMENT WITH DIRT LEG, VALVE AND UNION. SIZE AS NOTED. CONNECT GAS PIPING TO EQUIPMENT.



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PLUMBING FLOOR PLAN - COMPRESSED AIR & GAS	CHECKED	TLN
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DRAWN	WKM	

DATE	NO. DESCRIPTION
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**P2.3**

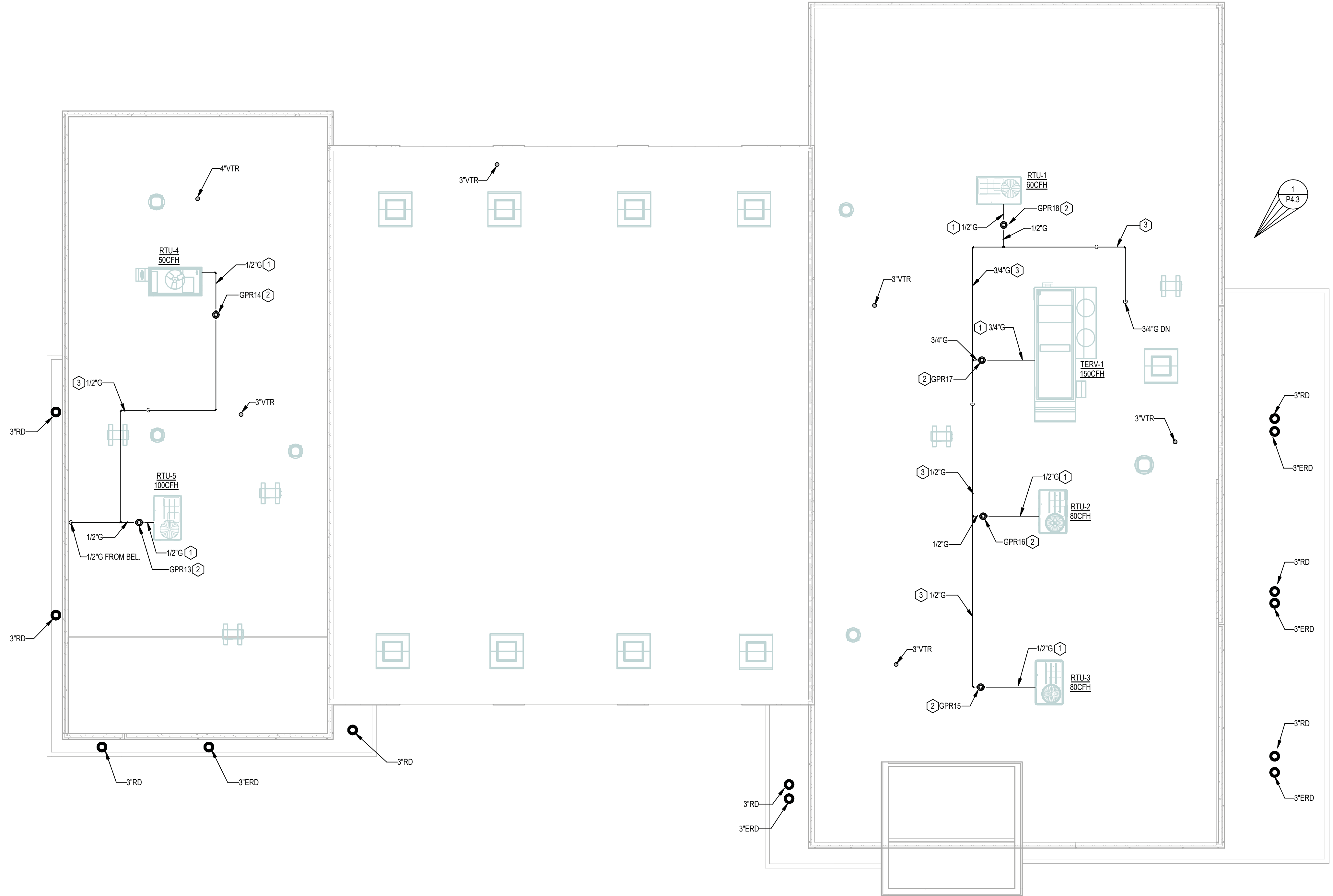


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**PLUMBING ROOF PLAN**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET

**PLUMBING GENERAL NOTES**

1 SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

**KEYNOTES**

- 1 GAS PIPING TO EQUIPMENT WITH DIRT LEG, VALVE AND UNION. SIZE AS NOTED. CONNECT GAS PIPING TO EQUIPMENT.
- 2 GAS PRESSURE REGULATOR. SEE SCHEDULE AND DETAIL 31P1.2.
- 3 GAS PIPING ON ROOF. SUPPORT PER SPECIFICATION SECTION 22 0548. SEE DETAIL 1/P1.3. PAINT GAS PIPING ON ROOF SAFETY YELLOW.

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 SAFETY BUILDING**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30294  
 PROJECT

PLUMBING ROOF  
 DESIGN WKM  
 DRAWN WKM  
 CHECKED TLN  
 SHEET TITLE

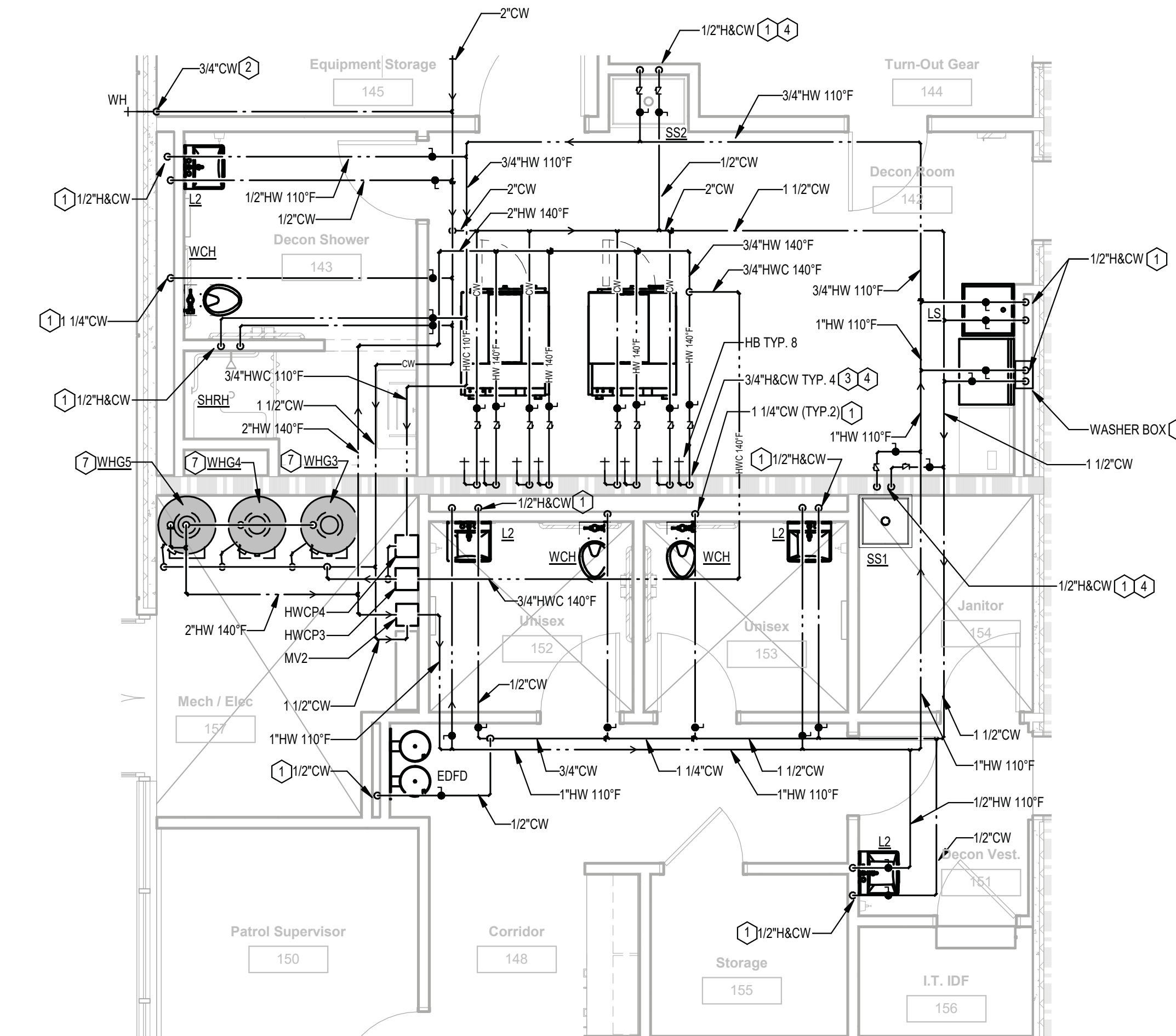
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10/26/21	1	RELEASED FOR BID

10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

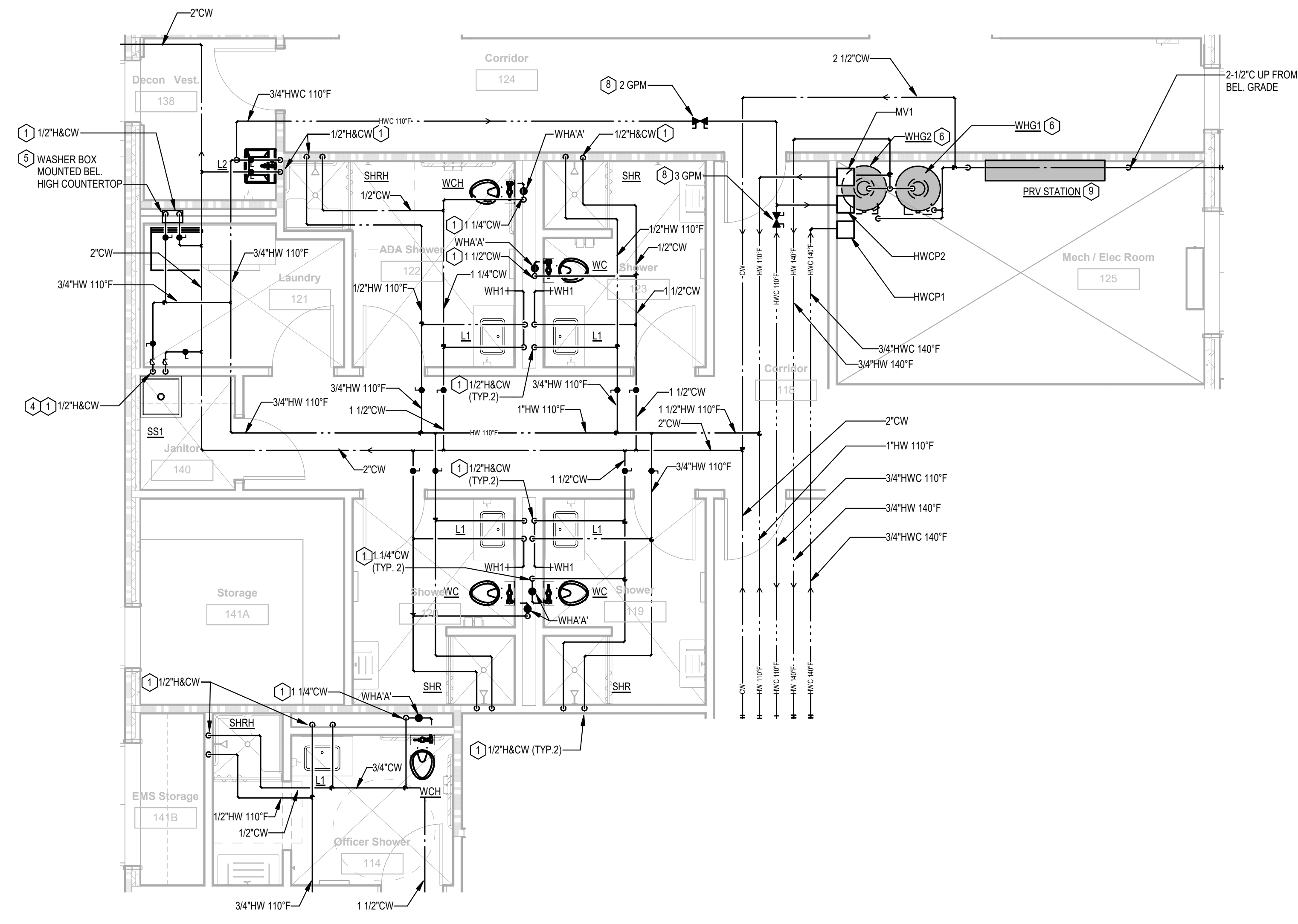
**P3.1**

**JSA**  
 CONSULTING ENGINEERS  
**Johnson, Spellman  
 & Associates, Inc.**  
 350 Research Court, Suite 130  
 Peachtree Corners, GA 30092  
 770-447-4555 www.jsaoc.com

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**2 PLUMBING WATER PLAN - PATROL**  
 P4.1 SCALE: 1/4" = 1'-0"  
 1/4" = 1'-0" SCALE FEET



**1 PLUMBING WATER PLAN - FIRE DEPT.**  
 P4.1 SCALE: 1/4" = 1'-0"  
 1/4" = 1'-0" SCALE FEET

**PLUMBING GENERAL NOTES**

- 1 SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

**KEYNOTES**

- 1 WATER PIPING DOWN WALL OR CHASE TO FIXTURE(S). SIZE AS NOTED. CONNECT PIPING TO FIXTURE(S).
- 2 CW DOWN ON WALL TO HOSE BIBB. SIZE AS NOTED. CONNECT COLD WATER TO HOSE BIBB.
- 3 HOT AND COLD WATER DOWN IN WALL TO HOSE BIBBS AT WASHING MACHINE. CONNECT HOT AND COLD WATER PIPING TO HOSE BIBBS.
- 4 PROVIDE CHECK VALVES IN WATER PIPING SERVING SERVICE SINKS AND WASHING MACHINES.
- 5 SEE 4P1.2 FOR WASHER BOX PIPING DETAIL.
- 6 SEE SCHEDULE AND DETAIL 2P1.3.
- 7 SEE SCHEDULE AND DETAIL 3P1.3.
- 8 HOT WATER RECIRCULATING FLOW BALANCING ASSEMBLY. SET BALANCING VALVE TO FLOW RATE INDICATED ON PLAN. SEE DETAIL 2P1.2.
- 9 SEE DETAIL 1P1.2 FOR PRESSURE REDUCING STATION DETAIL.

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PLUMBING PART PLANS	CHECKED TLN
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DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER
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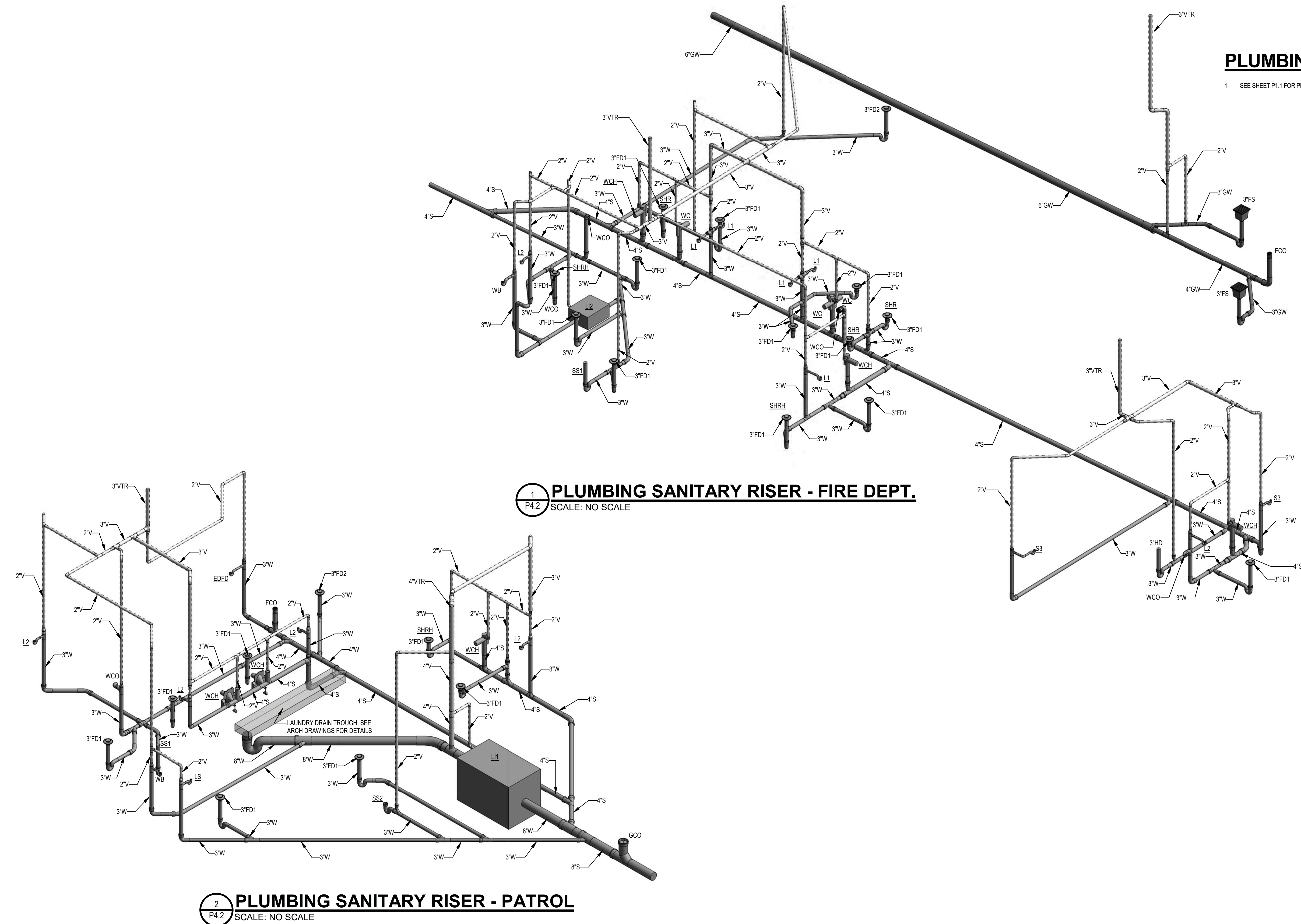


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PROJECT

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**1 PLUMBING SANITARY RISER - FIRE DEPT.**  
 SCALE: NO SCALE

**2 PLUMBING SANITARY RISER - PATROL**  
 SCALE: NO SCALE

**PLUMBING GENERAL NOTES**

1 SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

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PLUMBING RISERS	DESIGN WKM	DRAWN WKM	CHECKED TLN
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DATE	NO. DESCRIPTION	RELEASED FOR BID
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10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**P4.2**

**JSA**  
 CONSULTING ENGINEERS  
**Johnson, Spellman  
 & Associates, Inc.**  
 350 Research Court, Suite 130  
 Peachtree Corners, GA 30092  
 770-447-4555 www.jsae.com

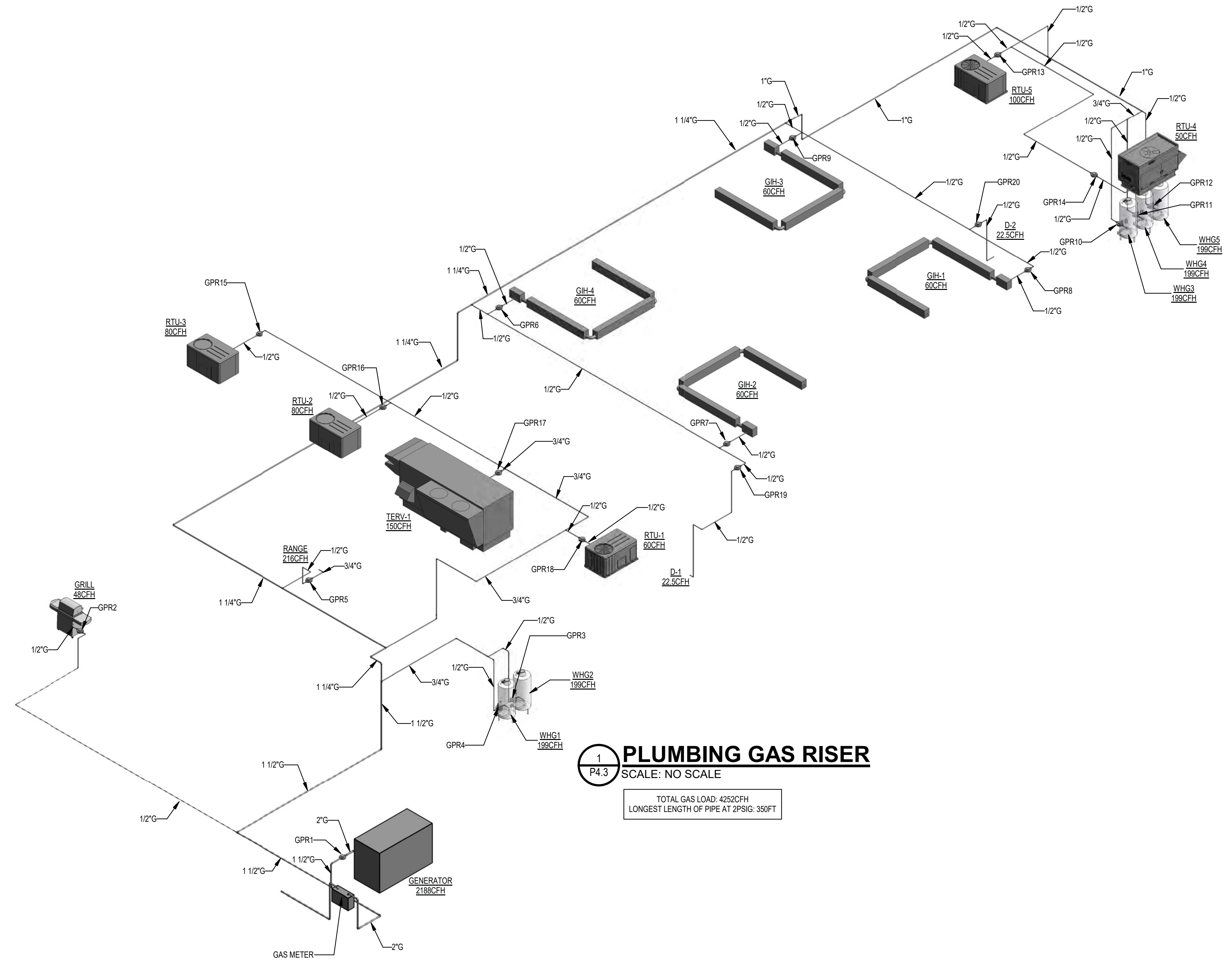
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**1 PLUMBING GAS RISER**  
 P4.3 SCALE: NO SCALE

TOTAL GAS LOAD: 4252CFH  
 LONGEST LENGTH OF PIPE AT 2PSIG: 350FT

**PLUMBING GENERAL NOTES**

1 SEE SHEET P1.1 FOR PLUMBING GENERAL NOTES.

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PLUMBING GAS  
 RISER

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10/26/21			WKM	WKM	TLN

10/26/2021  
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 A21-006  
 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER

P4.3



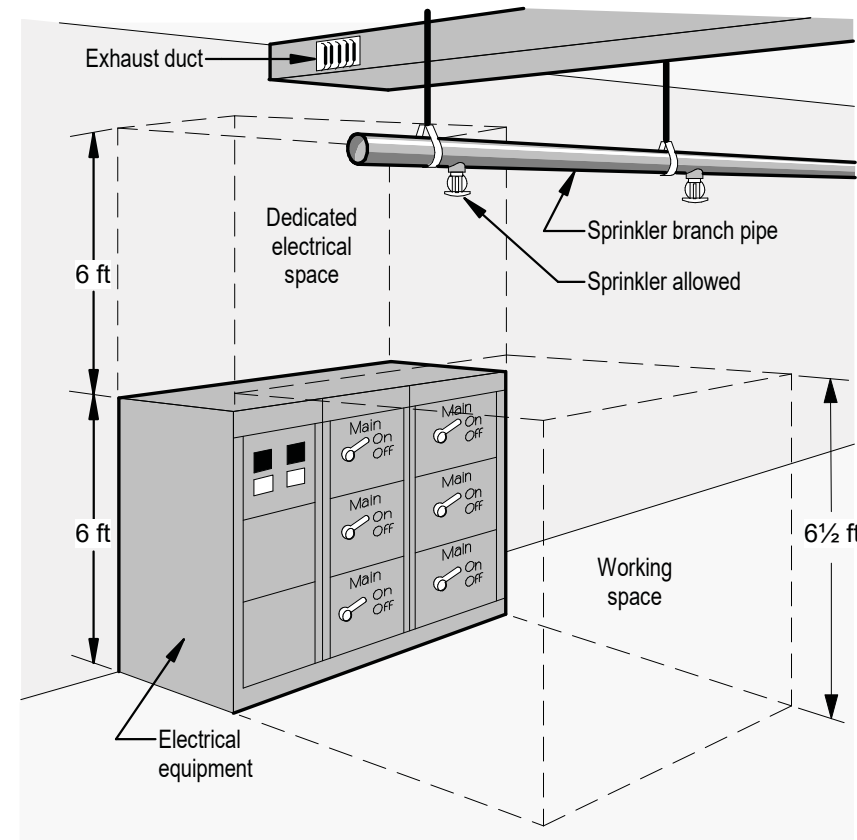
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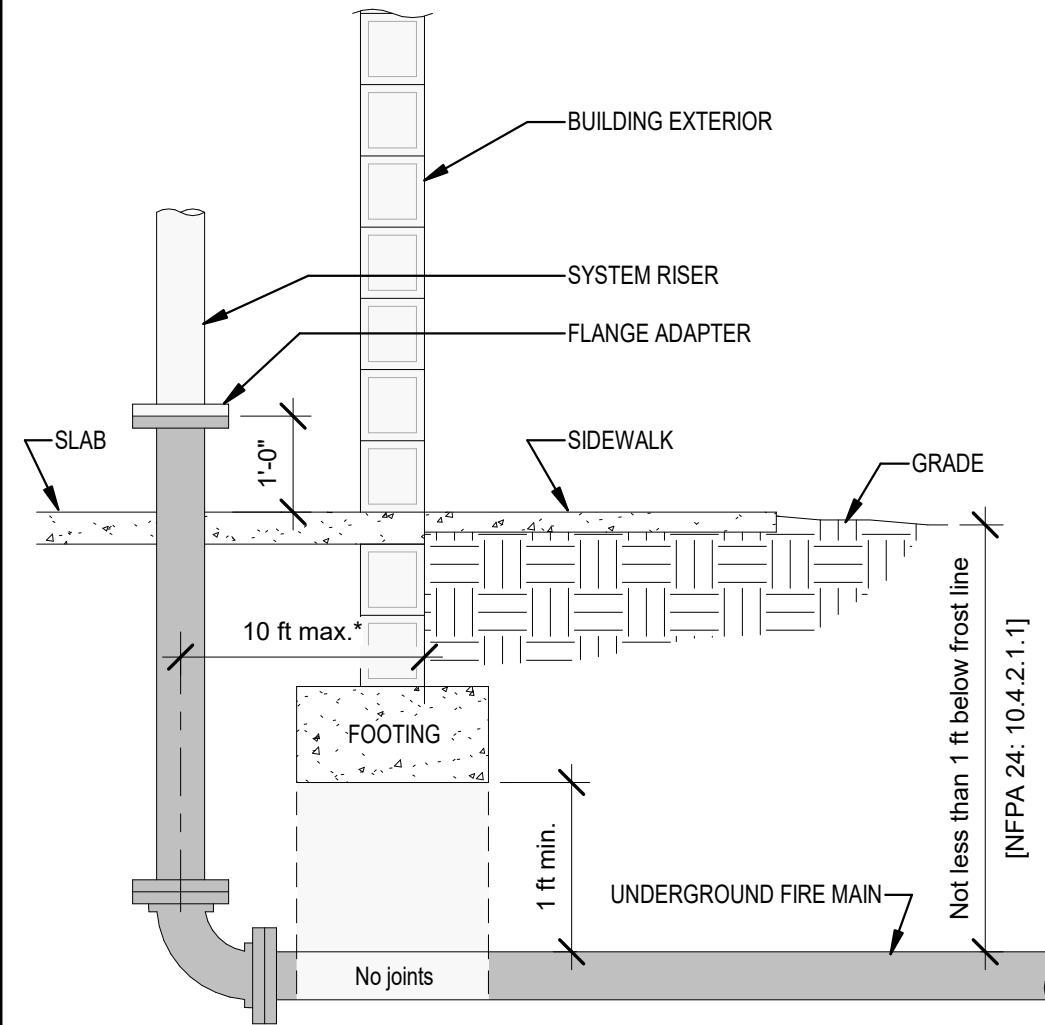
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### DEDICATED ELECTRICAL SPACE



**NFPA 13: 26.30.2.1 Dedicated Electrical Space.** The space equal to the width and depth of the equipment and extending from the floor to a height of 6 ft above the equipment or to the structural ceiling, whichever is lower, shall be dedicated to the electrical installation. No piping, ducts, leak protection apparatus, or other equipment foreign to the electrical installation shall be located in this zone.  
Exception: Suspended ceilings with removable panels shall be permitted within the 6 ft zone.

### TYPICAL FIRE WATER ENTRY



\* Private service mains shall not be permitted to extend more than 10 ft under the building except as allowed in NFPA 24:10.4.3.2

### FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
— F —	FIRE MAIN - SINGLE LINE (SCHEMATIC / KEY PLANS / SITE PLANS)
- - - F - - -	EXISTING FIRE MAIN - SINGLE LINE (SCHEMATIC / KEY PLANS / SITE PLANS)
▬▬▬	FIRE MAIN/SPRINKLER PIPE - DOUBLE LINE (PART PLANS / SECTIONS / DETAILS)
▬▬▬	EXISTING FIRE MAIN/SPRINKLER PIPE - DOUBLE LINE (PART PLANS / SECTIONS / DETAILS)
⊃	CONCENTRIC REDUCER
— — —	PIPE UNION
⊃	PIPE RISE
⊃	PIPE DROP
— — —	CAP ON END OF LINE
⊃	GATE VALVE
⊃	BUTTERFLY VALVE
⊃	PIPING OR EQUIPMENT TO BE REMOVED
UP OR DN	GRADE ARROW-INDICATES RISE OR DROP IN PIPE
— D —	DRAIN
⊃	ALARM VALVE - SINGLE LINE (SCHEMATIC / FLOOR PLANS)
⊃	BACKFLOW PREVENTER
⊃	POST INDICATING VALVE
⊃	FIRE HYDRANT
⊃	FIRE DEPARTMENT CONNECTION
⊃	EXTENT OF DEMO / CONNECT TO EXISTING

### ABBREVIATIONS

Abbreviation	Description	Abbreviation	Description
AS	Above Slab	KW	Kilowatt(s)
AHJ	Authority Having Jurisdiction	LH	Light Hazard
AFF	Above Finished Floor	LF	Linear Feet
ANSI	American National Standards Institute	MAX	Maximum
ASTM	American Standards Testing Materials	MIN	Minimum
BFP	Backflow Preventer	N/A	Not Applicable
BLDG	Building	NC	Normally Closed
BOR	Bottom of Riser	NFPA	National Fire Protection Association
BS	Below Slab	NPS	Nominal Pipe Size
CAP	Capacity	NTS	Not to Scale
CMDA	Control Mode Density/Area	OH#	Ordinary Hazard [Group 1 or 2]
CMSA	Control Mode Specific Application	OD	Outside Diameter
CONN	Connection	OS&Y	Outside Screw & Yoke
DIA	Diameter	Ph	Phase
DN	Down	PIV	Post Indicating Valve
DWG	Drawing	POC	Point of Connection
EH#	Extra Hazard [Group 1 or 2]	PSI	Pounds Per Square Inch
ELEV	Elevation	OR	Quick Response
ESFR	Early Suppression Fast Response	RPM	Revolutions Per Minute
FDC	Fire Department Connection	SF	Square Feet
FM	Factory Mutual	SR	Standard Response
FP	Fire Protection	STD	Standard
FT	Feet	TEMP	Temperature
GAL	Gallon(s)	TOR	Top of Riser
GALV	Galvanized	TYP	Typical
GPM	Gallons Per Minute	UG	Underground
HP	Horsepower	UL	Underwriters Laboratories Inc.
HYD	Hydrant	UNO	Unless Noted Otherwise
Hz	Hertz	V	Volts
IE	Invert Elevation	VOL	VOLUME
ID	Internal Diameter		
IN	Inches		
IPS	International Pipe Standard		

Not all abbreviations used

### VICINITY MAP



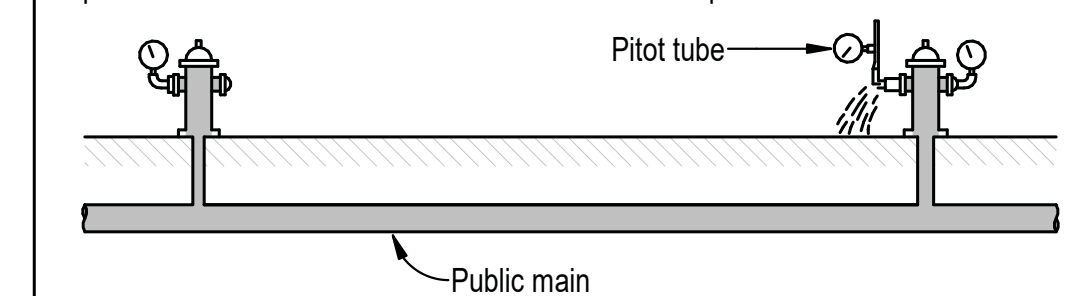
NOT TO SCALE

### FLOW TEST DATA

DATE: 6/10/2021  
 TIME: 23:00  
 WATER MAIN SIZE: n/a in.  
 STATIC: 70 PSI  
 RESIDUAL: 60 PSI  
 FLOW: 1,840 GPM  
 STATIC HYDRANT: Anvil Block Road just south of Cub Drive  
 FLOWING HYDRANT: Next hydrant south of Static Hydrant (see map sketched on flow test report)  
 CONDUCTED BY: Allsouth Sprinkler Company - 770.925.9099

\* GA-120-3 added paragraph 5.2.2.3 to NFPA 13. "A water test taken to determine the period of highest demand and made not more than six months prior to plan submittal shall be submitted to the AHJ with all new designs."

Gauge attached to hydrant to show static and residual pressures  
 Gauge attached to hydrant or pitot tube to register flowing pressure



Per NFPA 13: Figure A.5.2.2

**Allsouth Sprinkler Company**  
 1525 Broadmoor Blvd. 770-925-9099  
 Buford, GA 30118  
 www.allsouthsprinkler.com

**FLOW TEST INFORMATION SHEET**

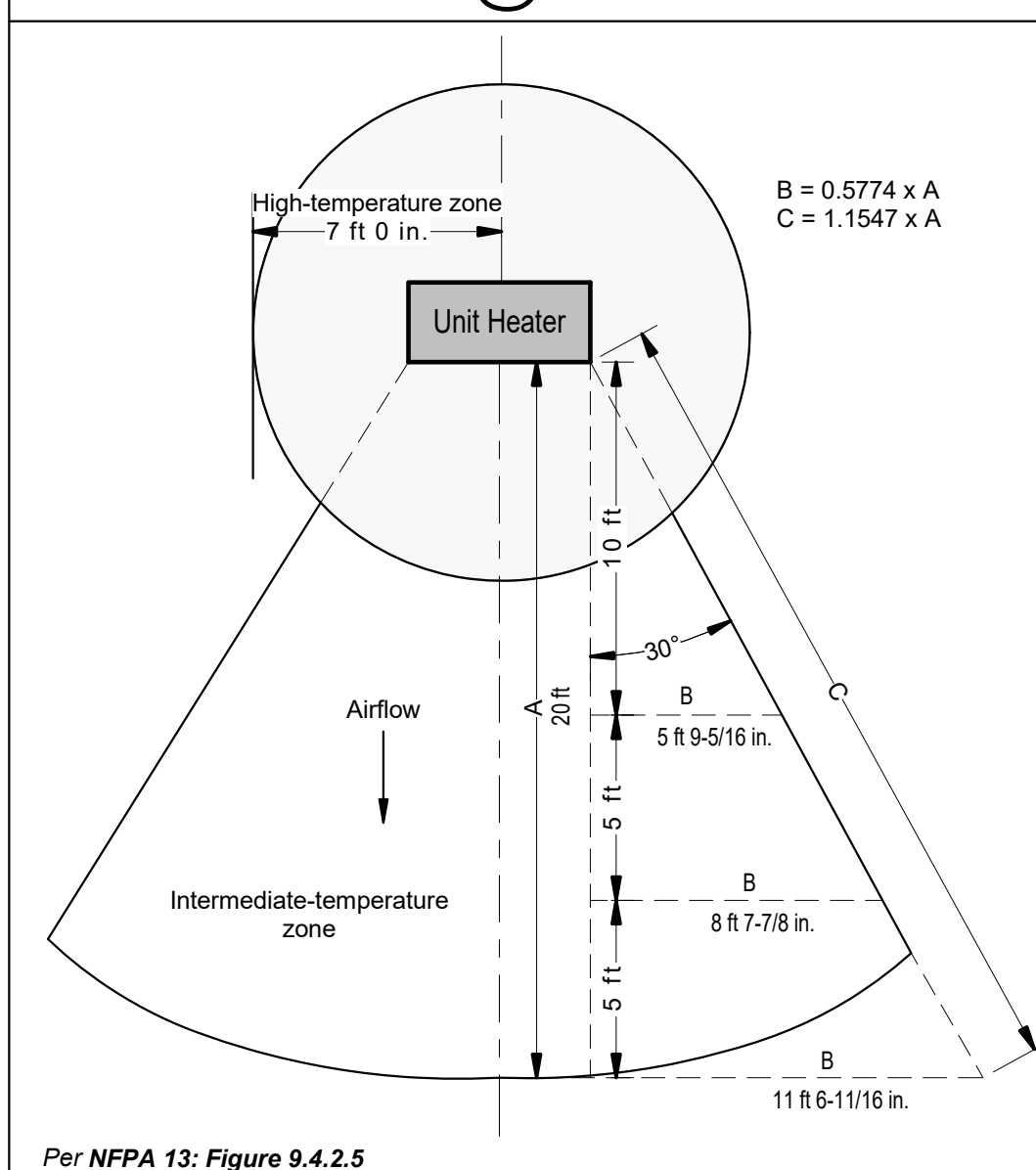
- Reason for Test:  Bid Information  Design Base  Other
- Location of Property: Anvil Block Rd. Forest Park, GA 30128
- Date & Time of Test: Date: 6/10/21 Time: 11:52 (pm)
- Test Conducted by: Mike Hancock
- Test Witnessed by: Steve Hancock
- Source of Water Supply: Gravity  Pump  Other:
- Name of Water District: Fire District
- Is water supply provided with PRV STA's? Yes  No
- Area Map: (Draw Sketch showing property location, bounding sheets and names, north arrow, hydrant locations and identification numbers, distances from hydrants to property elevations of hydrants and property floors or grade, all water mains and sizes and interconnection valves, etc.)

10. Flow Test Data

FLOWER HYDRANT NO.	STATIC AT HYDRANT	STATIC PRESS.	RESIDUAL PRESS.	FLOW GPM	OUTLET SIZE (COEFFICIENT)	PISTON PRESS.
2	70	60	1,840	1.50	30	

11. See reverse side for graph  
 12. Signed: [Signature]  
 Witness: [Signature]

### SPRINKLERS @ UNIT HEATERS



Per NFPA 13: Figure 9.4.2.5

### STEEL PIPE DIMENSIONS

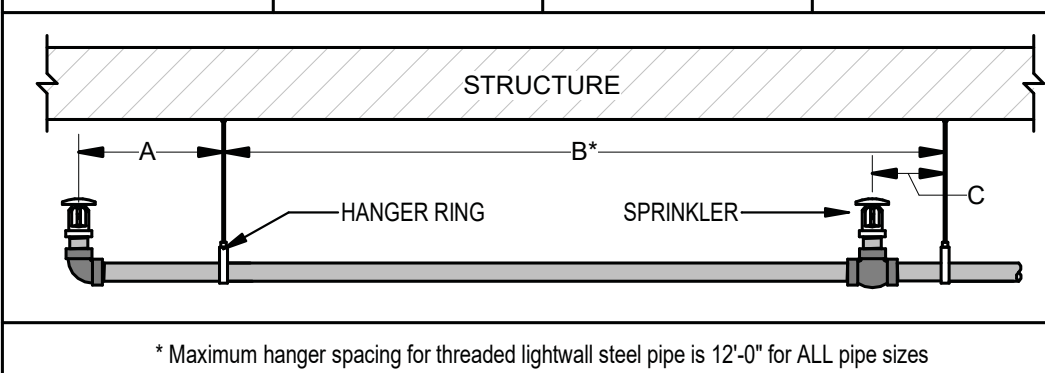
Nominal Pipe Size (in.)	Wet Pipe - Rolled Grooved	Wet Pipe - Threaded
	Schedule 10" Inside Diameter (in.)	ALL DRY PIPE Schedule 40" Inside Diameter (in.)
1	1.097	1.049
1 1/4	1.442	1.380
1 1/2	1.682	1.610
2	2.157	2.067
2 1/2	2.635	2.469
3	3.260	3.068
3 1/2	3.760	3.548
4	4.260	4.026
6	6.357	6.065
8	8.249	7.981
10	10.370	10.020
12	-	11.938

\*Schedule 10 defined to 5 in. nominal pipe size by ASTM A135, Standard Specification for Electric-Resistance Welded Steel Pipe

### STEEL PIPE HANGER SPACING

There shall not be less than one hanger for each section of pipe, unless the cumulative distance between hangers on branch line does not exceed the spacing listed below. (NFPA 13: 17.4.3.2)

Pipe Size	A	B*	C
1"	3'-0" max.	12'-0" max.	3' min.
1 1/4"	4'-0" max.	12'-0" max.	3' min.
1 1/2" - 8"	5'-0" max.	15'-0" max.	3' min.

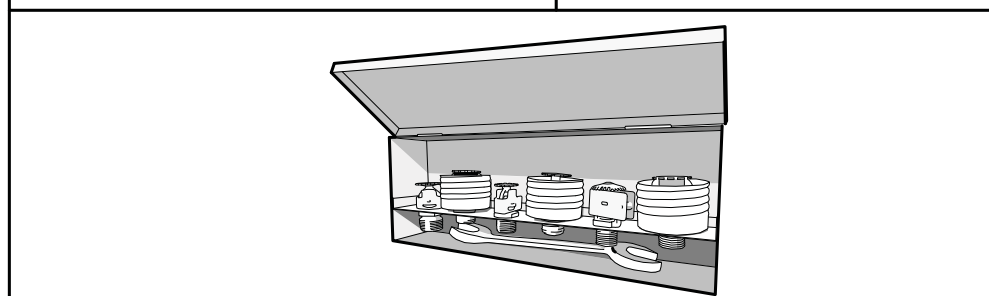


\* Maximum hanger spacing for threaded lightweight steel pipe is 12'-0" for ALL pipe sizes

### SPARE SPRINKLER STOCK

A supply of at least six spare sprinklers shall be maintained on the premises so that any sprinklers that have operated or been damaged in any way can be promptly replaced. (NFPA 13: 16.2.7.1)

Total Number of Installed Sprinklers	Minimum Stock of Spare Sprinklers
up to 300	no fewer than 6
300 to 1,000	no fewer than 12
1,000 or more	no fewer than 24



A list of installed sprinklers shall be posted in the sprinkler cabinet. (NFPA 13: 16.2.7.7)

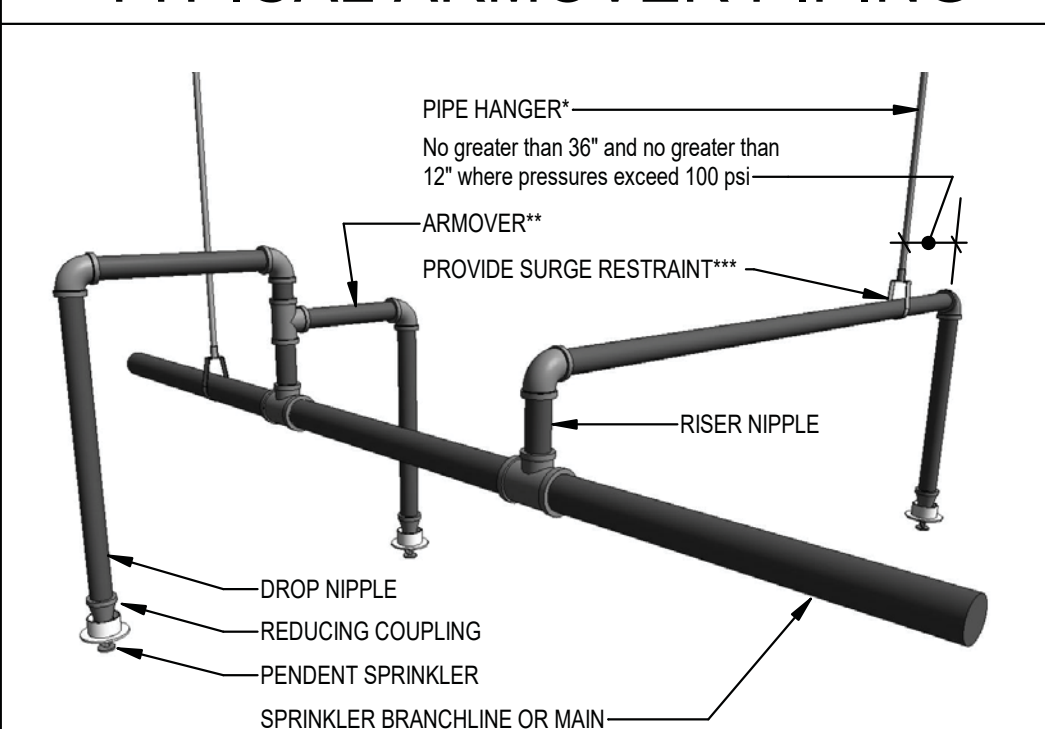
Sprinkler Identification, SIN	General Description	Temperature Rating, °F	Sprinkler Quantity Maintained
TY9128	Extended Coverage, K-25 upright	165	6
VK494	Residential concealed pendent	155	6

Issued: 8/31/21 Revised:

NFPA 13: FIGURE A.16.2.7.7.1 Sample List.

Spare dry sprinklers not required, if a means of returning the system to service is furnished. (NFPA 13: 16.2.7.4)

### TYPICAL ARMORER PIPING



\* Pipe hanger required to prevent upward movement on the armorer when:  
 (1) the armorer is steel, exceeds 12 in., and the system pressure exceeds 100 psi (NFPA 13: 17.4.3.5.2)  
 (2) the armorer is steel and exceeds 24 in. (NFPA 13: 17.4.3.5.1)

\*\* Armorer required when:  
 (1) raw water source supply - to avoid sediment and mineral deposit accumulation (NFPA 13: 16.3.11.2)  
 (2) dry systems in heated areas. (NFPA 13: 8.3.2.5(3))

\*\*\* Surge restraint required when:  
 (1) system pressure exceeds 100 psi (NFPA 13: 17.4.3.5.2.2)

### FIRE PROTECTION GENERAL NOTES

- ALL WORK SHALL COMPLY WITH NFPA AND LOCAL CODES/ORDINANCES.
- THIS CONSTRUCTION DOCUMENT REFLECTS NEW ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL VERIFY FINAL FLOOR PLAN CONFIGURATION PRIOR TO BEGINNING WORK. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THESE DRAWINGS HAVE BEEN PREPARED FROM THE LATEST INFORMATION AVAILABLE. HOWEVER, VARIATIONS MAY OCCUR IN THE ACTUAL CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO COMMENCING WORK EFFECTED.
- DO NOT ROUTE NEW SPRINKLER PIPING UNDER HVAC UNITS OR WITHIN HVAC UNIT SERVICE AREAS. COORDINATE WITH MECHANICAL CONTRACTOR FOR UNIT LOCATIONS PRIOR TO BEGINNING WORK.
- SLEEVE ALL PIPING THROUGH CONCRETE/BLOCK WALLS.
- ALL PIPING SHALL BE PARALLEL TO WALLS AND CEILINGS.
- CAP ALL OPEN PIPE ENDS DURING CONSTRUCTION TO PREVENT ENTRY OF DEBRIS.
- SEE CIVIL DRAWING FOR CONNECTION BETWEEN PROJECT BUILDING AND WATER MAIN.
- DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS AND ELEVATIONS OF ALL FIXTURES AND EQUIPMENT.
- CONCEAL ALL PIPING IN FINISHED AREAS OF THE BUILDING, UNLESS OTHERWISE NOTED.
- DRAWINGS REPRESENT PRELIMINARY PLANS ONLY. SPRINKLER CONTRACTOR SHALL GENERATE WORKING PLANS.
- VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.
- ALL EXPOSED GALVANIZED THREADS SHALL BE COATED WITH GALVANIC PAINT.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED AS SPECIFIED.
- SPRINKLERS INSTALLED IN FINISHED CEILINGS SHALL BE SYMMETRICALLY ALIGNED.
- SPRINKLERS INSTALLED IN LAY-IN CEILINGS SHALL BE CENTERED IN TILES AND ASSOCIATED ESCUTCHEON MOUNTED FLUSH WITH CEILING.
- PROVIDE ALL NECESSARY DRAINS AND PLUGS TO COMPLETELY DRAIN SYSTEM(S).
- SEAL ALL PIPING PENETRATIONS IN SMOKE PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR SMOKE PARTITION LOCATIONS.
- PROVIDE CONCEALED SPRINKLERS IN ALL GYPSUM FINISHED CEILINGS AND LAY-IN CEILINGS.

### APPLICABLE CODES

International Building Code (IBC): 2018 Edition with 2020 Georgia Amendments  
 International Fire Code (IFC): 2018 Edition with 2020 Georgia Amendments  
 Georgia Rules and Regulations Chapter 120-3-3 State Minimum Fire Safety Standards  
 NFPA 101 Life Safety Code: 2018 Edition  
 NFPA 13 Standard for the Installation of Sprinkler Systems: 2019 Edition  
 NFPA 25 Standard for the Installation of Private Service Mains: 2019 Edition  
 NFPA 25 Standard for the Inspection, Testing & Maintenance of Water-Based Fire Protection Systems: 2017 Edition

### CODE REVIEW SUMMARY

NFPA 101 shall establish minimum requirements for Occupancy Classification, overruling IBC (GA 120-3-3.01(b))

BUILDING OCCUPANCY:	R-2 - Residential	(IBC 310.3)
	B - Business	(IBC 304.1)
	S-1 - Storage (Moderate-hazard)	(IBC 311.2)
	S-2 - Storage (Low-hazard)	(IBC 311.3)
	TYPE IIB, sprinklered	(IBC Table 504)
	< 30 FT	(IBC 903.2.11)
TYPE OF CONSTRUCTION:		
BUILDING HEIGHT:	12,648 SOFT	(IFC Table B105.1)
FIRE FLOW:	1,500 GPM (Reduced per IFC Table B105.2)	(IFC Table B105.1)
FIRE FLOW DURATION:	2 HOURS	(IFC Table B105.1)
STANDPIPE:	N/A	(IBC 905.3)

### SEISMIC CODE REQUIREMENTS

Site Class: D Seismic Design Category: C

American Society of Civil Engineers (ASCE) Structural Engineering Institute (SEI)  
 ASCE/SEI 7, Minimum Design Loads for Buildings and Other Structures, 2010  
 Chapter 13 - Seismic Design Requirements for Nonstructural Components  
 13.6.2 Fire Protection Sprinkler Systems in Seismic Design Category C  
 In structures assigned to Seismic Design Category C, fire protection sprinkler systems designed and constructed in accordance with NFPA 13 shall be deemed to meet the other requirements of this section.

NFPA 13  
 Sprinkler piping shall be protected against earthquake damage per Chapter 18 - Installation Requirements for Seismic Protection, unless the requirements of 18.1.2 are met.

18.1.2 Alternative methods of providing earthquake protection of sprinkler systems based on a seismic analysis certified by a registered professional engineer such that system performance will be at least equal to that of the building structure under expected seismic forces shall be permitted.



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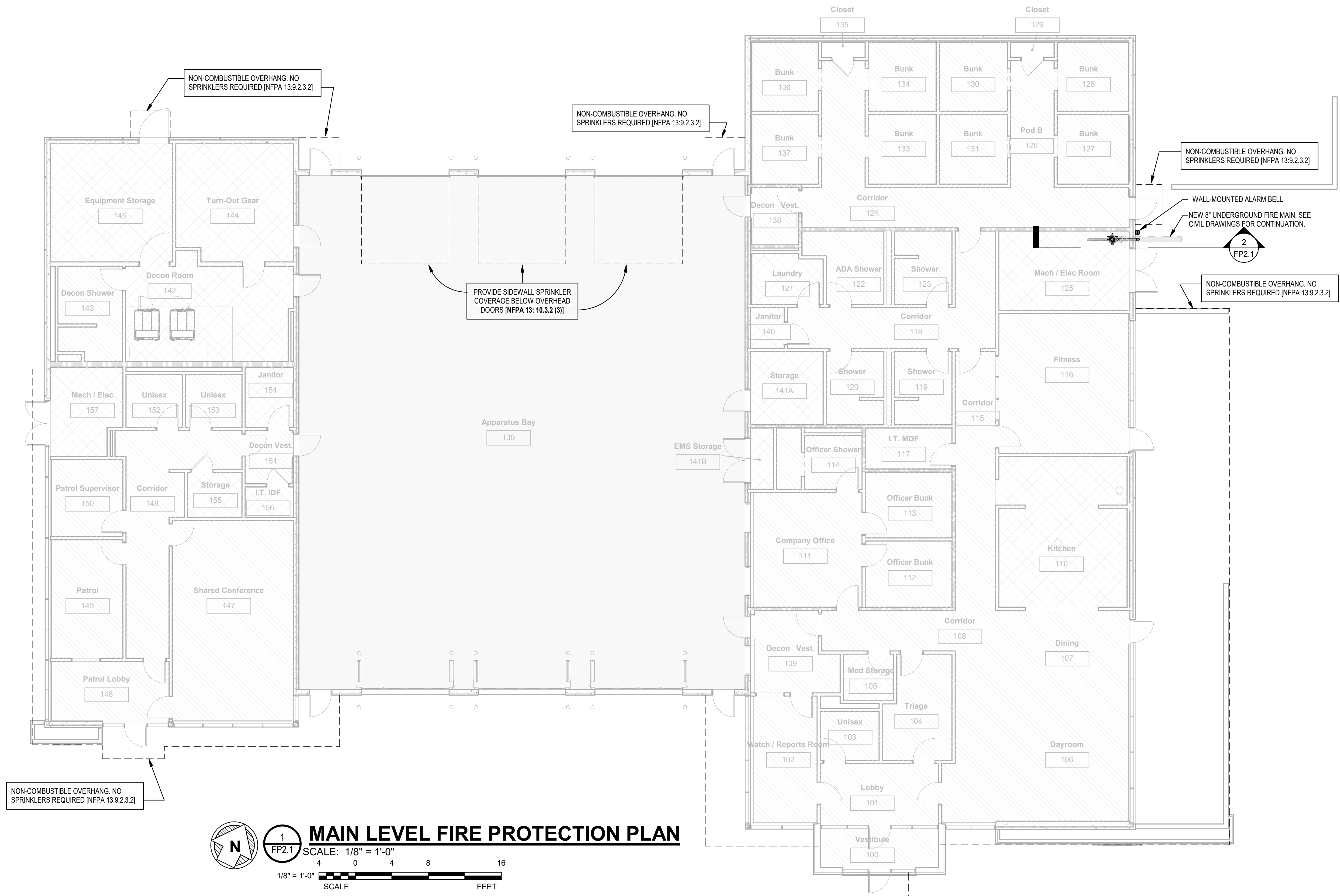
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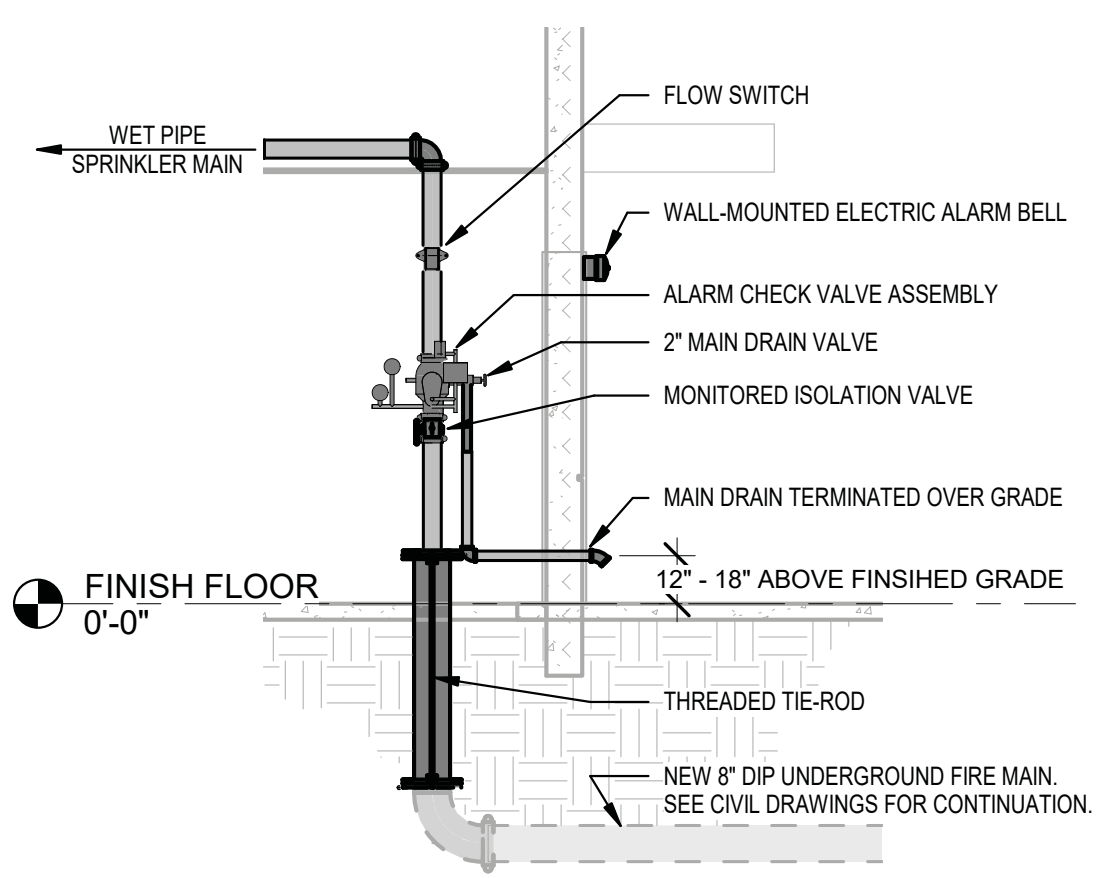
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 DRAWN: SP/JDR  
 CHECKED: TLN  
 SHEET TITLE

DATE	NO. DESCRIPTION	RELEASED FOR BID
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10/26/2021 DATE  
 A21-006 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER  
 FP1.1



**1 MAIN LEVEL FIRE PROTECTION PLAN**  
 SCALE: 1/8" = 1'-0"  
 1/8" = 1'-0" SCALE FEET



**2 SPRINKLER RISER ELEVATION**  
 SCALE: 1/4" = 1'-0"

HAZARD OCCUPANCY	
HATCHING	OCCUPANCY
[Diagonal Hatching]	LIGHT HAZARD
[Cross-hatching]	ORDINARY HAZARD GROUP 1
[Vertical Hatching]	ORDINARY HAZARD GROUP 2
[Horizontal Hatching]	EXTRA HAZARD GROUP 1

SPRINKLER TYPES/FINISH		
Location	Ceiling Material	Sprinkler Type/Finish
Various locations	ACP tiles	Concealed, white cover
Various locations	Sidewalls	Chrome
Apparatus Bay	Open structure	Upright, brass
Exterior	Sidewalls/Uprights	Chrome
Various locations	Drywall ceiling (white)	Concealed, white cover
Various locations	Drywall ceiling (non-white)	Concealed, custom color to match ceiling



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**GILLEM PUBLIC SAFETY BUILDING**  
 2090 Anvil Block Rd.  
 Forest Park, GA 30294  
 PROJECT

MAIN LEVEL FIRE PROTECTION PLAN  
 DESIGN SP/JDR  
 DRAWN SP/JDR  
 CHECKED TLN  
 SHEET TITLE

DATE	NO. DESCRIPTION	RELEASED FOR BID
10/26/21	1	

10/26/2021  
 DATE  
 A21-006  
 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER  
**FP2.1**

RELEASE

# SYMBOLS LEGEND:

## ABBREVIATIONS

AF	AMPERES FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AT	AMPERES TRIP
A.T.S.	AUTOMATIC TRANSFER SWITCH
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
C	CONTROLLED RECEPTACLE - "GREEN" IN COLOR
D	DEDICATED DEVICE, REQUIRING DEDICATED CIRCUIT
ex	EXISTING TO REMAIN
exr	EXISTING RELOCATED TO LOCATION ON PLAN
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTERS
IG	ISOLATED GROUND RECEPTACLE - "ORANGE" IN COLOR
MSGB	MASTER STATION GROUND BUS
M.T.S.	MANUAL TRANSFER SWITCH
TR	TAMPER RESISTANT DEVICE
PTZ	PTZ INDICATES PAN/TILT/ZOOM
WP	DENOTES WEATHERPROOF DEVICE
XX"	INDICATES MOUNTING HEIGHT AFF IN INCHES TO CENTERLINE, EXCEPT AS NOTED
usb	PROVIDE DUPLEX RECEPTACLE WITH (1) STANDARD USB AND (1) USB-C CHARGING OUTLET.

## WIRING SYMBOLS

	EXISTING RACEWAY TO REMAIN
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	RACEWAY EXPOSED
	HEAVY LINE DENOTES NEW EQUIPMENT OR NEW WIRING
	LITE LINE DENOTES EXISTING EQUIPMENT OR EXISTING WIRING
	RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR

## MISCELLANEOUS SYMBOLS

	CABLE TRAY
	PUSH BUTTON
	CLOCK OUTLET
	KEYNOTE SYMBOL
	RELAY
	BELL OR CHIME
	FLUSH MOUNTED EQUIPMENT AS NOTED

## ONE-LINE DIAGRAM SYMBOLS

	TRANSFER SWITCH
	DRAW-OUT CIRCUIT BREAKER
	BOLT-ON CIRCUIT BREAKER
	STARTER
	COMBINATION STARTER & FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	FUSE
	NON-FUSED DISCONNECT SWITCH
	SHUNT TRIP COIL
	GROUND FAULT
	CURRENT TRANSFORMER
	UTILITY REVENUE METER
	TRANSFORMER
	GENERATOR
	MOTOR-NUMERAL INDICATES THE HORSE POWER RATING
	LUG
	VARIABLE FREQUENCY DRIVE
	GROUND
	BATTERY
	PULLBOX
	SURGE PROTECTIVE DEVICE
	NORMALLY OPEN CONTACT/CLOSES WHEN COIL IS ENERGIZED
	NORMALLY CLOSED CONTACT/OPENS WHEN COIL IS ENERGIZED
	BUS

	BRANCH PANEL
--	--------------

## LIGHTING SYMBOLS

	FLUORESCENT FIXTURE, TYPE AS NOTED
	FLUORESCENT FIXTURE, TYPE AS NOTED
	SURFACE OR PENDANT MOUNTED FIXTURE, TYPE AS NOTED
	WALL MOUNTED FIXTURE, TYPE AS NOTED
	WALL MOUNTED LUMINARIE ON UN-SWITCHED CIRCUIT WITH EM. BATTERY BALLAST, TYPE AS NOTED
	WALL MOUNTED LUMINARIE ON SWITCHED CIRCUIT WITH EM. BATTERY BALLAST, TYPE AS NOTED
	LUMINARIE ON UN-SWITCHED CIRCUIT WITH EMERGENCY BATTERY BALLAST, TYPE AS NOTED
	LUMINARIE ON SWITCHED CIRCUIT WITH EMERGENCY BATTERY BALLAST, TYPE AS NOTED
	WALL MOUNTED FIXTURE, TYPE AS NOTED
	DOWNLIGHT, DECORATIVE, SITE OR MISC. FIXTURE, TYPE AS NOTED
	WALLWASH, OR ACCENT FIXTURE, TYPE AS NOTED
	EMERGENCY BATTERY FIXTURE, TYPE AS NOTED
	WALL/CEILING MOUNTED EXIT FIXTURE - BAR INDICATES FACE ORIENTATION - PROVIDE ARROWS AS SHOWN, TYPE AS NOTED
	STEPLIGHT FIXTURE, TYPE AS NOTED
	ADJUSTABLE DIRECTIONAL FIXTURE - ARROW INDICATES DIRECTION, TYPE AS NOTED
	SINGLE POLE SWITCH
	TWO SINGLE POLE SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS
	THREE WAY SWITCH
	TWO THREE-WAY SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS FROM MULTIPLE LOCATIONS
	FOUR WAY SWITCH
	WALL BOX DIMMER
	DIGITAL TIMER SWITCH - SET TIMER FOR 2-HOURS
	MOMENTARY CONTACT SWITCH
	OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
	360° OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
	POWER PACK - TYPE AS SCHEDULED
	PHOTO CELL
	TIME CLOCK
	PRESET STATION FOR FOR LTG CNTRLS - BASIS OF DESIGN IS EATON: GREENGATE# RC-*T*B SUB-SCRIPT DENOTES NUMBER OF BUTTONS
	ROOM CONTROLLER - BASIS OF DESIGN IS EATON: GREENGATE# RC3D-PL-N
	INPUT/OUTPUT DEVICE FOR LTG CNTRLS - BASIS OF DESIGN IS EATON: GREENGATE# OCC-RJ45
	DAYLIGHT SENSOR FOR LTG CNTRLS - BASIS OF DESIGN IS EATON: GREENGATE# DSRG-FMOIR
	RECEPTACLE SWITCHPACK FOR LTG CNTRLS - BASIS OF DESIGN IS EATON: GREENGATE# SPRC-R-20-120

## GROUNDING SYMBOLS

	GROUND BUS-TYPE AS NOTED
	DRIVEN GROUND ROD
	CONDUCTOR IN RACEWAY-TYPE AND SIZE AS NOTED
	BOND CONNECTION

## COMMUNICATIONS SYMBOLS

	TELEPHONE OUTLET PROVIDE (1) VOICE DROP UNLESS NOTED OTHERWISE
	WALL TELEPHONE OUTLET MOUNTED 48" A.F.F. PROVIDE (1) VOICE DROP UNLESS NOTED OTHERWISE
	DATA OUTLET PROVIDE (1) DATA DROP UNLESS NOTED OTHERWISE
	COMBINATION VOICE/DATA OUTLET PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	DATA CEILING OUTLET PROVIDE (1) DATA DROP UNLESS NOTED OTHERWISE
	PROVIDE 2-GANG BOX WITH 1-GANG PLASTER RING AND (1) 1/2" CONDUIT WITH PULL STRING STUBBED UP ABOVE ACCESSIBLE CEILING WITH A SWEEPING 90° ELBOW AND NYLON BUSHINGS

## CATV SYMBOLS

	TV OUTLET
	TV CEILING OUTLET
	PROVIDE 2-GANG BOX WITH 1-GANG PLASTER RING AND (1) 1/2" CONDUIT WITH PULL STRING STUBBED UP ABOVE ACCESSIBLE CEILING IN CORRIDOR WITH A SWEEPING 90° ELBOW AND NYLON BUSHINGS

## SOUND SYSTEM SYMBOLS

	INTERCOM - DOOR PHONE, EXTERIOR GRADE IN A DOUBLE GANG 4"x4" FLUSH MOUNTED WEATHERPROOF BOX - MOUNTED 48" AFF
	RADIO SPEAKER - CEILING MOUNTED
	PAGING SPEAKER - CEILING MOUNTED
	PRESENTATION SPEAKER - CEILING MOUNTED
	RADIO VOLUME CONTROL BUTTON-WALL MOUNTED

## POWER SYMBOLS

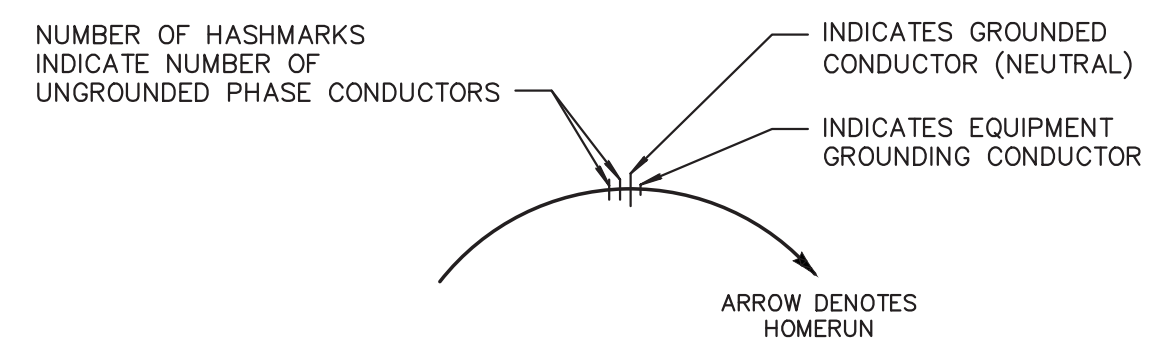
	WALL/CEILING MOUNTED LOW VOLTAGE JUNCTION BOX
	WALL/CEILING MOUNTED JUNCTION BOX - COORDINATE EXACT MOUNTING LOCATION WITH MANUFACTURER RECOMMENDATIONS AND ARCHITECT PRIOR TO ROUGH-IN, SUBSCRIPT DENOTES TYPE: • CD = GARGAGE DISPOSAL • DW = DISHWASHER • HD = HOOD • PS = PROJECTION SCREEN • MD = MOTORIZED DOOR • SL = SHORE LINE • FV = FLUSH VALVE • AF = AUTO FAUCET • HW = INSTA-HOT WATER DISPENSER
	JUNCTION BOX MOUNTED UNDER RAISED FLOOR OR CAST IN CONCRETE FLOORING. SUBSCRIPT DENOTES TYPE
	POWER AND VOICE/DATA CONNECTION
	PULLBOX
	CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING
	SLEEVE THROUGH WALL ABOVE CEILING.
	SLEEVE THROUGH FLOOR-SIZE NOTED ON PLANS
	NEW SURFACE MOUNTED PANELBOARD
	NEW FLUSH MOUNTED PANELBOARD
	EXISTING SURFACE MOUNTED PANELBOARD
	EXISTING FLUSH MOUNTED PANELBOARD
	EQUIPMENT AS NOTED
	TRANSFORMER-TYPE AND CAPACITY AS NOTED
	DISCONNECT SWITCH - TYPE AS NOTED.
	30/3/F/WP INDICATES 30A, 3-POLE, FUSED/NF=NON-FUSED, WP=WEATHERPROOF
	COMBINATION STARTER - TYPE AS NOTED.
	MOTOR STARTER-TYPE AS NOTED.
	MOTOR
	PLYWOOD EQUIPMENT BACKBOARD
	SURFACE RACEWAY
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE CEILING MOUNTED
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	SPECIAL PURPOSE RECEPTACLE - TYPE AS NOTED
	POKE-THRU, AFTER-SET SERVICE FITTING - TOMBSTONE TYPE FEEDING PARTITION FURNITURE. PROVIDE NUMBER OF VOICE/DATA DROPS AS INDICATED ON PLANS.
	FLUSH, POKE-THRU, AFTER-SET SERVICE FITTING, TYPE AS SPECIFIED BY AV CONSULTANT. PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	CAST-IN-PLACE MULTI-SERVICE ASSEMBLY - TYPE AS SPECIFIED BY AV CONSULTANT. PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	EMERGENCY POWER OFF STATION
	MOTOR RATED SWITCH

## FIRE ALARM SYMBOLS

	CEILING MOUNTED SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	CEILING MOUNTED HEAT DETECTOR
	COMBINATION AUDIBLE/VISUAL TYPE NOTIFICATION APPLIANCE-WALL MOUNTED. ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED
	MANUAL PULLSTATION BENEATH NOTIFICATION APPLIANCE
	MANUAL PULL STATION
	VISUAL DEVICE-WALL MOUNTED. ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED.
	WATER FLOW SWITCH
	WATER VALVE POSITION SUPERVISORY SWITCH
	MONITOR MODULE ADDRESSABLE MODULE
	CONTROL MODULE ADDRESSABLE MODULE
	DOOR HOLD/RELEASE
	REMOTE ANNUNCIATOR PANEL
	FLUSH MOUNTED REMOTE ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FLUSH MOUNTED FIRE ALARM CONTROL PANEL

# GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL LABOR, TOOLS, AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS.
- CONTRACTOR'S WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- CONTRACTOR SHALL COMPLY WITH LOCAL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY.
- CONTRACTOR SHALL COMPLY WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES.
- CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS THAT COMPLY WITH THE INDICATED STANDARDS.
- ALL MATERIALS PROVIDED SHALL BE U/L LABELED OR U/L LISTED, EXCEPT WHERE THE MATERIAL IS OF A TYPE NOT INCLUDED IN THE U/L LISTING SERVICE, IN WHICH CASE THE MATERIAL SHALL COMPLY WITH OTHER APPLICABLE INDUSTRY STANDARDS AND THE CONTRACTOR SHALL PROVIDE ANY EXAMINATIONS OR CERTIFICATIONS REQUIRED BY THE LOCAL INSPECTION AUTHORITY IN LIEU OF U/L LISTINGS.
- ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATED FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.
- THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL INSTALLATION AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES OF DEVICES AND LIGHT FIXTURES. IF CONFLICTING LOCATIONS OR QUANTITIES ARE INDICATED THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. IF CONFLICTING LOCATIONS ARE INDICATED THE MECHANICAL DRAWINGS TAKE PRECEDENCE.
- CONTRACTOR SHALL PROVIDE FINAL ELECTRICAL CONNECTIONS FOR ALL FURNITURE BASE FEEDS. FURNITURE ELECTRICAL WHIPS AND POWER-POLES SHALL BE PROVIDED BY TENANT'S FURNITURE VENDOR, UNLESS NOTED OTHERWISE. WORKSTATIONS SHOWN FOR REPRESENTATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH TENANT'S FURNITURE VENDOR FOR EXACT LOCATION OF WORKSTATIONS AND CORRESPONDING POWER COMMUNICATION DEVICES PRIOR TO ROUGH-IN.
- SCALE OF DRAWINGS - MEASUREMENTS AND/OR LOCATIONS SHALL NOT BE SCALED FROM THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- UNLESS NOTED OR SPECIFIED OTHERWISE, ALL EXTERIOR CONDUIT (BELOW GRADE) SHALL BE PVC SCHEDULE 40, ALL EXTERIOR CONDUIT (ABOVE GRADE) SHALL BE RIGID GALVANIZED STEEL WITH THREADED FITTINGS.
- SOUND WALL DEVICE PLACEMENT: NO BACK TO BACK OR SAME STUD CAVITY PLACEMENT OF RECESSED WALL DEVICES - REFER TO ARCHITECTURAL SOUND WALL DETAILS FOR ADDITIONAL DEVICE INSTALLATION REQUIREMENTS FOR ALL SOUND WALLS..
- ALL NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITH CONCRETE ENCASEMENT SHALL HAVE A MINIMUM OF 3.00" THICK CONCRETE ENCASEMENT OVER ALL CONDUITS. POWER AND COMMUNICATIONS CONDUITS SHALL BE SEPARATED BY A MINIMUM OF 6" OF CONCRETE. CONDUITS OF THE SAME SYSTEM SHALL BE SEPARATED BY A MINIMUM OF 2" OF CONCRETE. SUPPORT CONDUITS ON SPACERS, ANCHOR AND TIE CONDUITS TO PREVENT DISPLACEMENT WHEN CONCRETE IS POURED. POUR CONCRETE AGAINST UNDISTRIBUTED FILL AND TRIMMED TRENCH WALLS OR FORMS AS NEEDED. VIBRATE CONCRETE TO ELIMINATE VOIDS. DO NOT ALLOW EXCESS CONCRETE TO BE DISPOSED OF IN TRENCHES.
- ALL NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT SHALL BE BURIED AS LISTED BELOW:
  - MINIMUM OF 24" FOR ALL LOCATIONS UNDER STREETS, ROADS, DRIVEWAYS, AND PARKING OTS
  - MINIMUM OF 18" FOR ALL OTHER LOCATIONS ON SITE.



## NOTES:

- NO HASHMARKS INDICATE (1) UNGROUNDED PHASE CONDUCTOR, (1) GROUNDED CONDUCTOR (NEUTRAL), AND (1) EQUIPMENT GROUNDING CONDUCTOR IN 1/2" CONDUIT.
- 15A & 20A MULTI-WIRE CIRCUITS WITH A COMMON GROUNDED CONDUCTOR (NEUTRAL) SHALL BE PROVIDED WITH A #10 AWG GROUNDED CONDUCTOR (NEUTRAL).

## WIRING SYMBOLOGY - DETAIL

1 E1.0 SCALE: N.T.S.

# SEISMIC REQUIREMENTS - ELECTRICAL

- THIS BUILDING SHALL BE SEISMIC DESIGN CATEGORY "C", AND THE RISK CATEGORY IS "IV".
- THE CONTRACTOR SHALL PROVIDE SEISMIC BRACING DETAILS FOR PANELS, MISCELLANEOUS EQUIPMENT, CONDUITS AND CABLE TRAYS. ANALYSIS SHALL BE PERFORMED BY A FIRM OR MANUFACTURER REGULARLY ENGAGED IN SEISMIC ANALYSIS.
- SEISMIC RESTRAINT LAYOUTS AND BRACINGS SHALL BE STAMPED BY CONTRACTOR'S REGISTERED STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF GEORGIA.
- REFER TO SPECIFICATION SECTION 26 05 48 - SEISMIC RESTRAINTS FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL DRAWINGS AND STRUCTURAL GENERAL NOTES TO REFERENCE CODE/DESIGN INFORMATION.
- ALL SEISMIC BRACING SHALL BE ATTACHED TO THE BOTTOM CHORD OF THE ROOF JOIST.
- ALL OF THE FOLLOWING EQUIPMENT AND RACEWAYS LOCATED INSIDE THE BUILDING SHALL BE PROVIDED WITH RESTRAINTS:
  - RECESSED FLUORESCENT LIGHTING FIXTURES.
  - RACEWAYS 2.50" AND LARGER WHICH ARE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
- RACEWAYS LISTED ABOVE ARE NOT REQUIRED TO BE RESTRAINED IF THE HANGERS ARE 12" OR LESS IN LENGTH AS MEASURED FROM THE TOP OF THE CONDUIT TO THE BOTTOM OF THE HANGER SUPPORT.

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**Gillem Public Safety Building**  
2090 Anvill Block Road  
Forest Park, GA 30294

SYMBOLS LEGEND & NOTES	CHECKED	RVG
	DRAWN	CAD
	DESIGN	PCE

DATE	NO.	DESCRIPTION
10/26/2021		RELEASED FOR BID

10/26/2021	DATE
A21-006	PROJ. NUMBER
	FILE NAME
	FILE NUMBER

E1.0

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**FIXTURE SCHEDULE:**

TYPE	DESCRIPTION	CONE/LENS/LOUVER	LAMPS	NOTES	BASIS OF DESIGN	TYPE	DESCRIPTION	CONE/LENS/LOUVER	LAMPS	NOTES	BASIS OF DESIGN
F1	4'-0" LONG LINEAR LED CHAIN HUNG STRIP FIXTURE WITH WIRE GUARD AND INTEGRAL DIMMING DRIVER	N/A	(1) 41W LED 3500K 4,600 LUMENS	5	COOPER: METALUX# 4SNLED-LD4-46SL-LN-L835-CD-1- WG/SNF-4FT	FW1	LED WALL MOUNTED, VANDAL RESISTANT, EXTERIOR FIXTURE WITH FULL CUT-OFF - U.L. LISTED FOR WET LOCATION	HIGH-IMPACT RESISTANT, UV-STABILIZED POLYCARBONATE (0.187" THICK)	(1) 80W L.E.D. 4,984 LUMENS 4000K	2,3	KENALL: MILLENNIUM FINITE# FN15L-4-7-*--80L40K
F2	2'x2' RECESSED LED HIGH EFFICIENCY GASKETED LENSED TROFFER WITH INTEGRAL DIMMING DRIVER	#12 ACRYLIC PATTERN (0.125" THICKNESS) WITH GASKETED LENS AND DOOR	(1) 45W LED 3500K 4,000 LUMENS	5	COOPER: METALUX# 22GRFA-LD440F1-*--L835-CD-1-G2	FW2	LED WALL MOUNTED, VANDAL RESISTANT, EXTERIOR FIXTURE WITH FULL CUT-OFF - U.L. LISTED FOR WET LOCATION	HIGH-IMPACT RESISTANT, UV-STABILIZED POLYCARBONATE (0.187" THICK)	(1) 26W L.E.D. 1,805 LUMENS 4000K	2,3,5	KENALL: MILLENNIUM FINITE# FN15L-4-7-*--26L40K
F3	2'x2' RECESSED LED HIGH EFFICIENCY VOLUMETRIC FIXTURE WITH INTEGRAL DIMMING DRIVER	HIGH GRADE ACRYLIC LENS WITH WAVESTREAM TECHNOLOGY	(1) 24.9W LED 3500K 3,000 LUMENS	5	COOPER: METALUX# 22EN-LD2-30-*--CD-1	FW3	ARCHITECTURAL EXTERIOR LED WALL MOUNTED DOWNLIGHT FIXTURE WITH FULL CUT-OFF, U.L. LISTED FOR WET LOCATION, IP65 RATED AND INTEGRAL DRIVER	18" BEAM ANGLE WITH CLEAR SAFETY GLASS	(1) 14W L.E.D. 1,106 LUMENS 4000K	2,3,5	BEGA# 24 034-K4 / 19 537
F4	PENDANT MOUNTED LED HIGHBAY FIXTURE WITH WIRE GUARD AND INTEGRAL DIMMING DRIVER	WIRE GUARD	(1) 152W LED 3500K 18,000 LUMENS		COOPER: METALUX# HBLD-LD418-W-*--L835-CD-2-HBL-SP M-WG/HBL6-4FT-B	FW4	ARCHITECTURAL EXTERIOR LED WALL MOUNTED FIXTURE WITH FULL CUT-OFF, U.L. LISTED FOR WET LOCATION, IP65 RATED AND INTEGRAL DRIVER	CLEAR FLAT GLASS	(1) 60W L.E.D. 5,330 LUMENS 4000K	2,3	TO BE SELECTED
F5A	4'-0" LONG LINEAR LED UNDER CABINET FIXTURE WITH INTEGRAL DIMMING DRIVER	#12 ACRYLIC PATTERN (0.125" THICKNESS)	(1) 30.4W LED 3500K 2,400 LUMENS	4	COOPER: FAIL-SAFE# UCL-4-LD4-35-A12125-EDD1	S1	EXTERIOR LED BOLLARD FIXTURE WITH FULL CUT-OFF, U.L. LISTED FOR WET LOCATION, IP65 RATED AND INTEGRAL DRIVER	N/A	(1) 19.8W L.E.D. 1,286 LUMENS 4000K	2	BEGA# 99 622-K4 / 79 818
F5B	2'-0" LONG LINEAR LED UNDER CABINET FIXTURE WITH INTEGRAL DIMMING DRIVER	#12 ACRYLIC PATTERN (0.125" THICKNESS)	(1) 9.1W LED 3500K 800 LUMENS	4	COOPER: FAIL-SAFE# UCL-2-LD4-35-A12125-EDD1	S2	SINGLE HEAD LED POLE MOUNTED AREA SITE LIGHTING FIXTURE WITH TYPE III DISTRIBUTION MOUNTED ON A 20'-0" SQUARE ALUMINUM POLE	TYPE III DISTRIBUTION	(2) L.E.D. SQUARES - 129W 13,363 LUMENS 4000K	2,6	EATON: MCGRAW-EDISON# GLEON-AF-02-LED-*--T3-1200
FD1	RECESSED LED DOWNLIGHT WITH NOMINAL 6" APERTURE, SELF FLANGED CONE AND INTEGRAL DIMMABLE DRIVER	SEMI-SPECULAR CLEAR	(1) 31.5W LED 3500K 2,000 LUMENS	5	COOPER: PORTFOLIO# LD6A-20-D010TE-ERM6A20-8-40-6LM1H	S3	L.E.D. EXTERIOR GROUND MOUNTED, FULLY ADJUSTABLE SPOT LIGHT FIXTURE WITH INTEGRAL DIMMING DRIVER	MEDIUM FLOOD WITH BARN DOORS	(1) 12.8W L.E.D. 711 LUMENS 4000K	2	VISTA# 1043Y-*--MF-40-D-MV-010-BD
FD2	RECESSED LED DOWNLIGHT WITH NOMINAL 4" APERTURE, U.L. LISTED FOR PROTECTED WET LOCATION AND IP66 RATED	BLACK BAFFLE	(1) 14.1W LED 4000K 900 LUMENS		COOPER: PORTFOLIO# LD4A-09-D010TE-8-40-4LW0-BB- LGSKT4IP66	EB1	SURFACE MOUNTED, DUAL HEAD EMERGENCY BATTERY PACK FIXTURE WITH NICKEL-CADMIUM BATTERY	N/A	(2) 18W HALOGEN	2,3	EMERGI-LITE# ECC-18-2H-AD
FD3	RECESSED LED DOWNLIGHT WITH NOMINAL 4" APERTURE	SEMI-SPECULAR CLEAR	(1) 14.1W LED 3500K 900 LUMENS		COOPER: PORTFOLIO# LD4A-09-D010TE-8-35-4LW0-H	EB2	SURFACE MOUNTED, DUAL HEAD EMERGENCY BATTERY PACK FIXTURE WITH NICKEL-CADMIUM BATTERY	N/A	(2) 25W HALOGEN	2,3	EMERGI-LITE# KSC25-2H-AD
FD4	EXTERIOR RECESSED LED DOWNLIGHT WITH NOMINAL 6" APERTURE, SELF FLANGED CONE, INTEGRAL DIMMABLE DRIVER, U.L. LISTED FOR WET LOCATION AND IP66 RATED	SEMI-SPECULAR CLEAR	(1) 31.5W LED 3500K 2,000 LUMENS	5	COOPER: PORTFOLIO# LD6A-20-D010TE-ERM6A20-8-40-6LM1H -LGSKT6IP66	X1	EDGE-LIT LED EXIT FIXTURE WITH NICKEL-CADMIUM BATTERY	RED LETTERS ON MIRROR BACKGROUND	L.E.D.	1,2	EMERGI-LITE# LXN*NRM*-C-D
FP1	ARCHITECTURAL DECORATIVE PENDANT FIXTURE - PATROL LOBBY	OPAL/CLEAR GLASS SHADE	(1) 12W L.E.D. G40 3500K	2,3	TECH LIGHTING: PALESTRA MEDIUM PENDANT# 700-TD-PALP-M-OC-B-LED935	X2	NEMA-4X, SURVIVE ALL LED EXIT FIXTURE WITH NICKEL-CADMIUM BATTERY	RED LETTERS	L.E.D.	1,2	EMERGI-LITE# BA-SVXN-*--R-D-4X
FP2	ARCHITECTURAL DECORATIVE PENDANT FIXTURE - DINING	BLACK ACRYLIC SHADES	(1) 7W L.E.D. PAR16 GU10 3500K	2,3	LOUIS POULSEN: ENIGMA 545						
FP3	ARCHITECTURAL DECORATIVE PENDANT FIXTURE - KITCHEN	MATTE BLACK SHADE	(1) 12.7W L.E.D. T24 3500K	2,3	TECH LIGHTING: JONI PENDANT# 700TDJN1-B-LED935						
FP4	8'-0" LONG LINEAR DIRECT/INDIRECT L.E.D. PENDANT FIXTURE WITH INTEGRAL DIMMING DRIVER	PERFORMANCE LENS	(1) 64W L.E.D. 3,808 LUMENS DN 4,056 LUMENS UP 3500K	2,3	AMERLUX# QLP2-072-QLP2-ECBT-QLP-SJB						

NOTES:

- CHEVRON AND FACE CONFIGURATION, AS INDICATED ON DRAWINGS.
- COLOR/FINISH, AS DIRECTED BY ARCHITECT.
- COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL DETAILS FOR EXACT MOUNTING AND PLACEMENT.
- PROVIDE EMERGENCY BATTERY BACK-UP, AS INDICATED ON DRAWINGS (PER SYMBOLS LEGEND).
- PROVIDE 20'-0" TALL, 6" SQUARE ALUMINUM POLE WITH 12" DIAMETER BASE PLATE BOLT CIRCLE.



**Project Information**

Energy Code: 2015 IECC  
 Project Title: Gillem Public Safety Building  
 Project Type: New Construction

Construction Site: 2090 Anvil Block Road, Forrest Park, GA 30297  
 Owner/Agent: Precision Planning, Inc., 400 Pike Boulevard, Lawrenceville, GA 30046, 770-338-8000  
 Designer/Contractor: Christopher Phillips, Phillips Consulting Engineers, LLC, 260 Beckenham Walk Drive, Decatur, GA 30019, 404-393-0903

**Additional Efficiency Package(s)**

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Public Safety Building (Fire Station)	12677	0.60	7644
Total Allowed Watts =			7644

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt.	E (C X D)
1-Public Safety Building (Fire Station)				
LED 1: F1: LED Strip Fixture: Other:	1	22	41	902
LED 2: F2: 2'x2' LED Troffer: Other:	1	6	45	270
LED 3: F3: 2'x2' LED Troffer: Other:	1	87	25	2166
LED 4: F4: LED Highbay: Other:	1	12	142	1704
LED 5: F5A: LED Under Counter Fixture: Other:	1	4	30	122
LED 6: F5B: LED Under Counter Fixtur: Other:	1	2	9	18
LED 7: FD1: LED Downlight: Other:	1	38	32	1197
LED 8: FD2: LED Downlight: Other:	1	6	14	85
LED 9: FD3: LED Downlight: Other:	1	25	14	352
LED 10: FP1: LED Pendant: LED A Lamp 12W:	1	2	12	24
LED 11: FP2: LED Pendant: LED PAR 7W:	1	1	7	7
LED 12: FP3: LED Pendant: Other:	1	3	13	38
LED 13: FP4: LED Linear Pendant: Other:	1	4	64	256
Total Proposed Watts =				7141

Interior Lighting PASSES: Design 7% better than code

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory

Project Title: Gillem Public Safety Building  
 Data filename: D:\Dropbox (Phillips Consulting)\Projects\2021\21122 - Forrest Park GPSB\CAD\E1.1\_21122.cck  
 Report date: 09/10/21  
 Page 1 of 6

requirements listed in the Inspection Checklist.

Christopher W. Phillips, P.E. Signature Date 09/14/2021

**OCCUPANCY/VACANCY SENSOR SCHEDULE**

TYPE	DESCRIPTION	NOTES	DESIGN STANDARD
a	LINE VOLTAGE, DIMMING WALL SWITCH - DUAL TECHNOLOGY, SINGLE RELAY, MANUAL ON	1	COOPER: GREENGATE# VSW-D-010
b	LINE VOLTAGE, CEILING MOUNT - DUAL TECHNOLOGY, SINGLE RELAY, EXTENDED RANGE	1	COOPER: GREENGATE# OAC-DT-2000-MV
c	LOW VOLTAGE, WALL/CORNER MOUNT - DUAL TECHNOLOGY, SINGLE RELAY WITH ISOLATED FORM C RELAY FOR BAS INTERFACE	1,2,3	COOPER: GREENGATE# OAWC-DT-120W-R
d	LOW VOLTAGE, CEILING MOUNT - DUAL TECHNOLOGY, SINGLE RELAY, EXTENDED RANGE WITH ISOLATED FORM C RELAY FOR BAS INTERFACE	1,2,3	COOPER: GREENGATE# OAC-DT-2000-R
e	LINE VOLTAGE, WALL SWITCH - DUAL TECHNOLOGY, SINGLE RELAY, MANUAL ON	1	COOPER: GREENGATE# ONW-D-1001-MV

NOTES:

- DEVICE COLOR AS SPECIFIED BY ARCHITECT.
- PROVIDE POWER PACKS AS INDICATED ON DRAWINGS. SINGLE RELAY POWER PACK MODEL# SP20-MV
- COORDINATE INPUT TO LIGHTING CONTROL DEVICE WITH DEVICE VENDOR PRIOR TO ORDERING.

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PROJECT

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Gillem Public Safety  
Building

2090 Anvil Block Road  
Forrest Park, GA 30294

SHEET TITLE

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FIXTURE  
SCHEDULE

RELEASE

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DATE	NO.	DESCRIPTION
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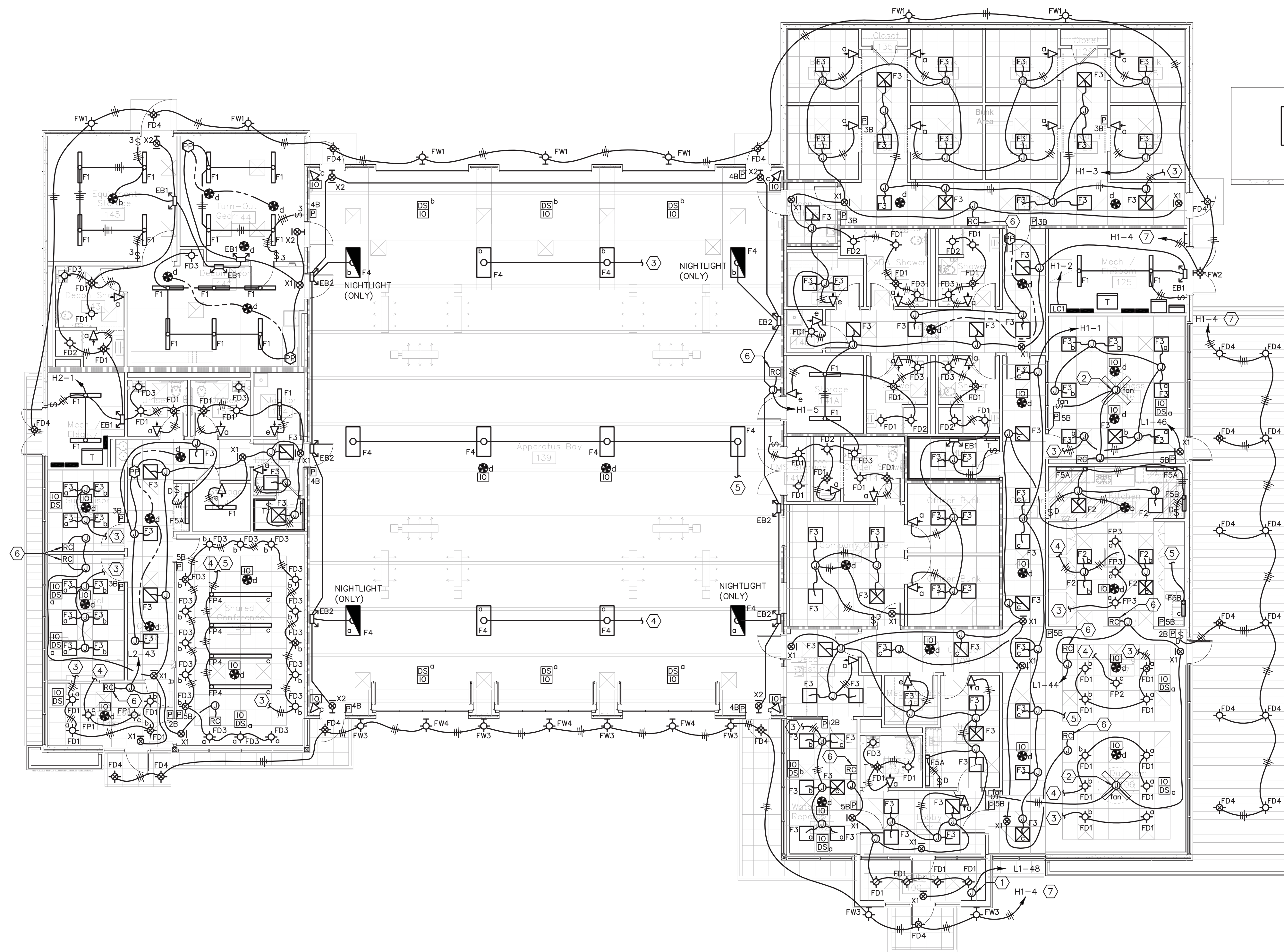
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E1.1

Phillips Consulting Engineers, LLC  
 260 Beckenham Walk Drive  
 Decatur, GA 30019  
 Office: (404) 393-0903 Mobile: (770) 825-0539  
 www.phillipsce.com





1 LIGHTING PLAN  
 E2.1 SCALE: 1/8" = 1'-0"

**KEYNOTES:**

(THIS SHEET ONLY, EXCEPT AS NOTED)

- 1 PROVIDE JUNCTION BOX FOR POWER CONNECTION TO EXTERIOR L.E.D. SIGN LOCATED ABOVE ENTRY - COORDINATE EXACT MOUNTING LOCATION AND POWER REQUIREMENTS WITH ARCHITECT AND SIGN VENDOR/MANUFACTURER PRIOR TO ROUGH-IN.
- 2 PROVIDE INDOOR 60" DIAMETER CEILING FAN WITH OPTIONAL CLOSE-TO-CEILING KIT - MONTE CARLO# 3ADR60BKBK. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDERING. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE PROPER INSTALLATION.
- 3 CONNECT TO RELAY-1 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM - PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
- 4 CONNECT TO RELAY-2 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM - PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
- 5 CONNECT TO RELAY-3 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM - PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
- 6 THE SUBSCRIPT FOR THE INDIVIDUAL FIXTURES LOCATED IN THE ROOM INDICATE THE ROOM CONTROLLER DIMMING ZONE THAT EACH INDIVIDUAL FIXTURE SHOULD BE CONNECTED FOR DIMMING CONTROL.
- 7 CIRCUIT VIA LIGHTING CONTACTOR - REFER TO DETAIL 6/E7.1 FOR ADDITIONAL INFORMATION.

**GENERAL NOTES:**

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1. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
2. THE OCCUPANCY SENSOR LAYOUT INDICATED ON THE DRAWINGS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE THE QUANTITY OF OCCUPANCY SENSORS REQUIRED TO ENSURE FULL COVERAGE OF EACH INDIVIDUAL SPACE INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE SHOP DRAWING LAYOUTS FOR ALL OCCUPANCY SENSORS WITH SUBMITTAL DOCUMENTS FOR APPROVAL PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ANY/ALL NECESSARY LOW VOLTAGE CABLING REQUIRED BETWEEN DIMMING CONTROLLER (I.E. DIMMER, LOW VOLTAGE CONTROLLER OR ROOM CONTROLLER) AND SPECIFIED DIMMABLE FIXTURES WITHIN OPEN AND INDIVIDUAL SPACES, UNLESS OTHERWISE NOTED.

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LIGHTING PLAN

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	FILE NAME
	FILE NUMBER

E2.1



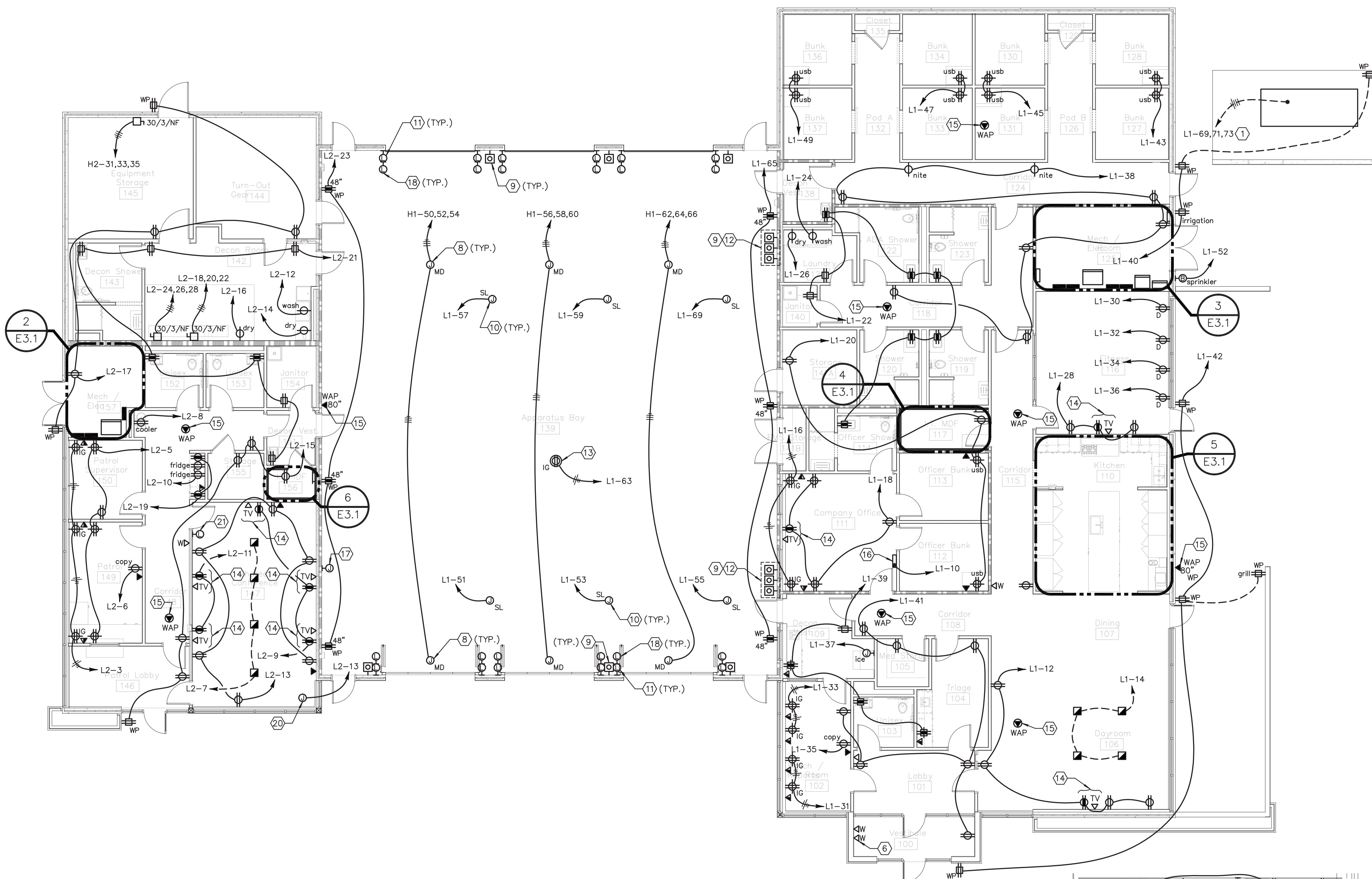
Phillips Consulting Engineers, LLC  
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 Office: (404) 693-9933 Mobile: (770) 625-6156  
 www.PhillipsCE.com

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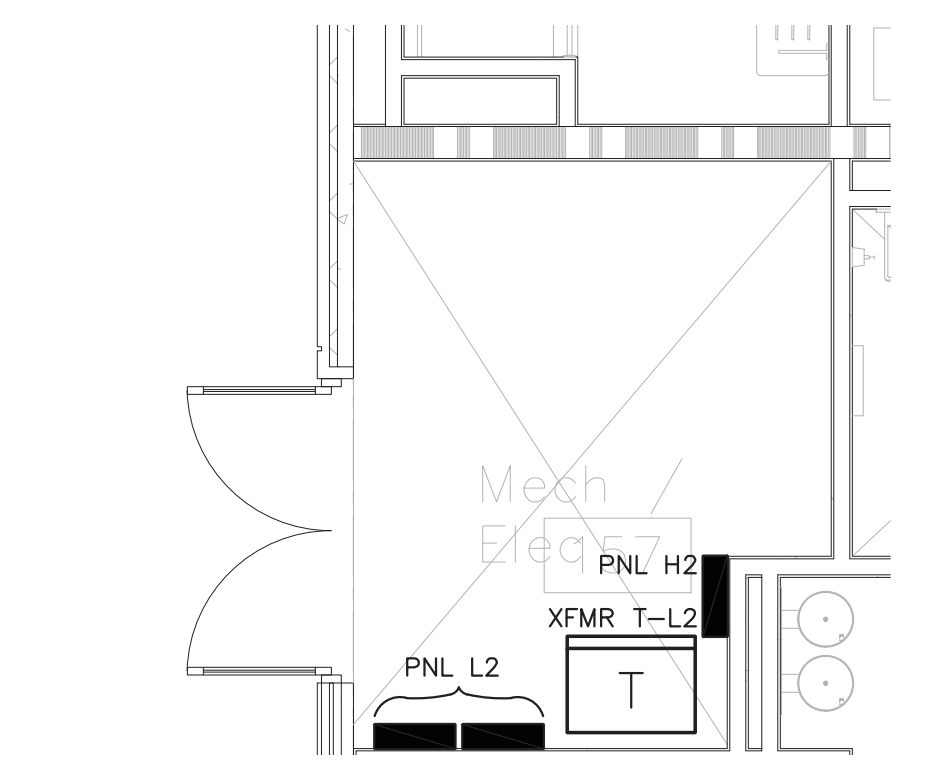
- ALL VOICE AND DATA EQUIPMENT IS SHOWN FOR REFERENCE ONLY. LOW-VOLTAGE EQUIPMENT AND DOES NOT INDICATE ALL COMPONENTS REQUIRED FOR A COMPLETE VOICE/DATA SYSTEM - REFER TO VOICE/DATA CONSULTANT DRAWINGS FOR COMPLETE RACEWAY REQUIREMENTS.
- IT LAYOUT IN MECH/ELEC ROOM IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL COMPONENTS REQUIRED FOR A COMPLETE VOICE/DATA SYSTEM - REFER TO VOICE/DATA CONSULTANT DRAWINGS FOR COMPLETE RACEWAY REQUIREMENTS.
- ALL NETWORK ELECTRONICS AND RACK MOUNTED UPS SYSTEMS SHALL BE SPECIFIED BY THE OWNER AND PROVIDED BY OTHERS.
- MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
- CONTRACTOR SHALL COORDINATE WALL HEIGHTS WITH ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN PURPOSES.

**KEYNOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

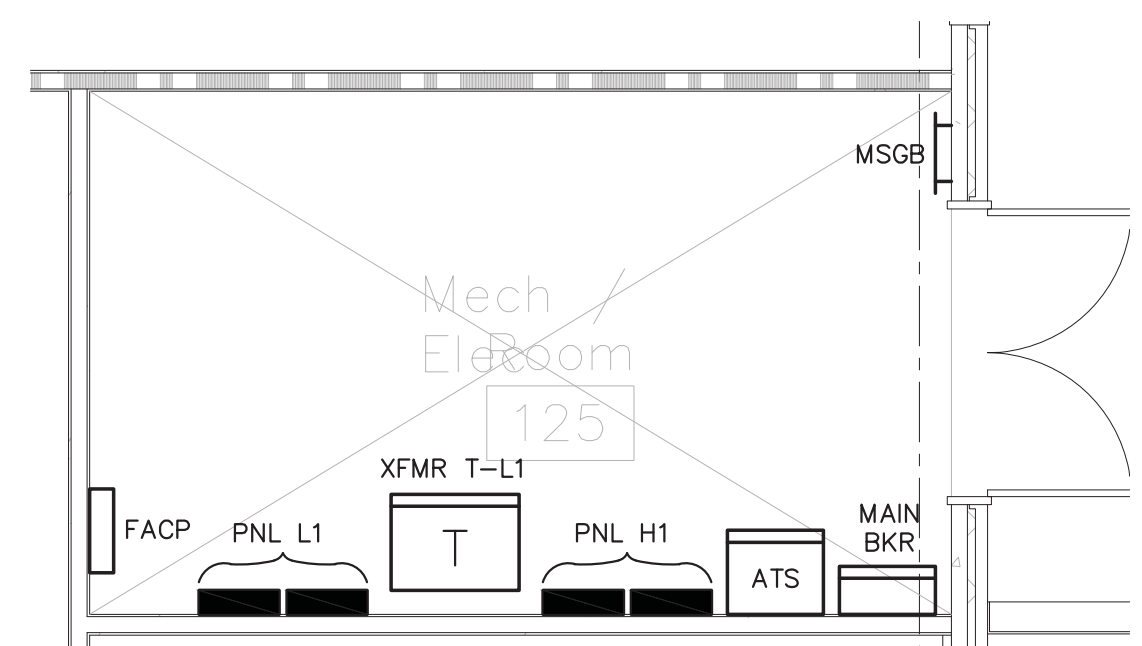
- RUN FEEDERS VIA GENERATOR FEEDER DUCTBANK - REFER TO SHEET E1.2 FOR ADDITIONAL INFORMATION.
- PROVIDE (1) 4.00" SCHEDULE 40 PVC WITH PULLSTRING FOR TELECOM SERVICE - REFER TO T2.1 FOR ADDITIONAL INFORMATION.
- PROVIDE (3) 2.00" CONDUIT SLEEVES THROUGH WALL, ABOVE ACCESSIBLE CEILING, REFER TO LOW VOLTAGE VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE 0.75" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD MOUNTED 6" AFF TO 8"-0" AFF - FINISH AS DIRECTED BY ARCHITECT.
- PROVIDE #4/0 INSULATED GROUNDING ELECTRODE BACK TO GROUND BAR MSGB LOCATED IN MAIN ELECTRICAL ROOM.
- PROVIDE DEDICATED POTS LINE, AS REQUIRED FOR RED PHONE DIRECT DIAL TO 911 - COORDINATE EXACT MOUNTING LOCATION WITH FIRE ALARM VENDOR PRIOR TO ROUGH-IN.
- PROVIDE (3) 2.00" SCHEDULE 40 PVC WITH PULL STRING FOR IT/IDF INTERCONNECT ACROSS APPARATUS BAY - REFER TO SHEET E1.2 FOR CONTINUATION.
- JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED DOOR - COORDINATE EXACT CONNECTION REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE 0.50" CONDUIT TO DOOR MOTOR FOR CONTROL WIRING. (TYPICAL)
- PROVIDE OPEN/CLOSE PUSH BUTTON FOR MOTORIZED DOOR AT 48" A.F.F. - COORDINATE EXACT REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN. (TYPICAL)
- PROVIDE CEILING MOUNTED NEMA 5-20R RECEPTACLE AT CEILING ALONG WITH 30"-0" SO CORD WITH TENSION/STRAIN RELIEF, KELLUM GRIP AND NEMA 5-20P AND 5-20R. CABLE SHALL BE LONG ENOUGH TO REACH GROUND WITH SUFFICIENT SLACK FOR MOVEMENT AROUND TRUCKS. LOCATE 15'-0" FROM INSIDE OF EXTERIOR WALL. (TYPICAL)
- PROVIDE JUNCTION BOX WITH 0.50" CONDUIT TO DOOR MOTOR FOR WIRING FOR PHOTOELECTRIC SENSORS - COORDINATE EXACT REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN.
- DASHED RECTANGLE DENOTES TO GANG DEVICES UNDER COMMON COVER PLATE.
- PROVIDE ISOLATED GROUND DUPLEX OUTLET IN CENTER OF APPARATUS BAY ON BOTTOM OF CEILING FOR WIRELESS ALL PAGE SYSTEM. COORDINATE EXACT MOUNTING LOCATION WITH LOW VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.
- DEVICES FOR CONNECTION TO FLAT PANEL TELEVISION - COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT & LOW VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.
- PROVIDE DEVICE FOR WIRELESS ACCESS POINT. COORDINATE EXACT MOUNTING LOCATION WITH LOW VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.
- GENERATOR REMOTE ANNUNCIATOR.
- DOUBLE GANG JUNCTION BOX LOCATION FOR FUTURE TRAFFIC SIGNAL - COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO SHEET E1.2 KEYNOTE-14 FOR ADDITIONAL INFORMATION.
- PROVIDE JUNCTION BOX WITH 0.50" CONDUIT TO EXHAUST SYSTEM FOR WIRING OF LIGHT CURTAIN - COORDINATE EXACT REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN.
- PROVIDE MOTOR RATED SWITCH LOCATED INSIDE BASE CABINET TO OPERATE DISPOSAL. LOCATION OF SWITCH SHALL BE AS DEFINED BY THE ARCHITECT.
- JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED SHADE CONTROLLER - COORDINATE EXACT MOUNTING LOCATION WITH SHADE CONTROLLER VENDOR AND ARCHITECT PRIOR TO ROUGH-IN.
- MOTORIZED SHADE CONTROL STATION MOUNTED ADJACENT TO LIGHTING PRESET STATION - PROVIDE 2-GANG BOX WITH 1-GANG PLASTER RING AND (1) 0.75" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING WITH A SWEEPING 90° ELBOW AND NYLON BUSHING.



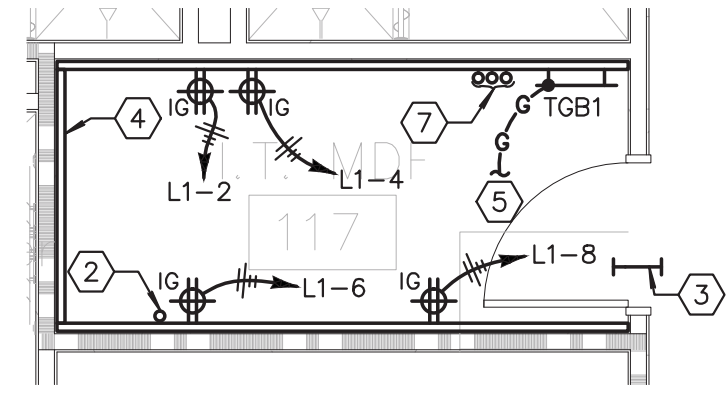
**1 POWER & COMMUNICATIONS PLAN**  
E3.1 SCALE: 1/8" = 1'-0"



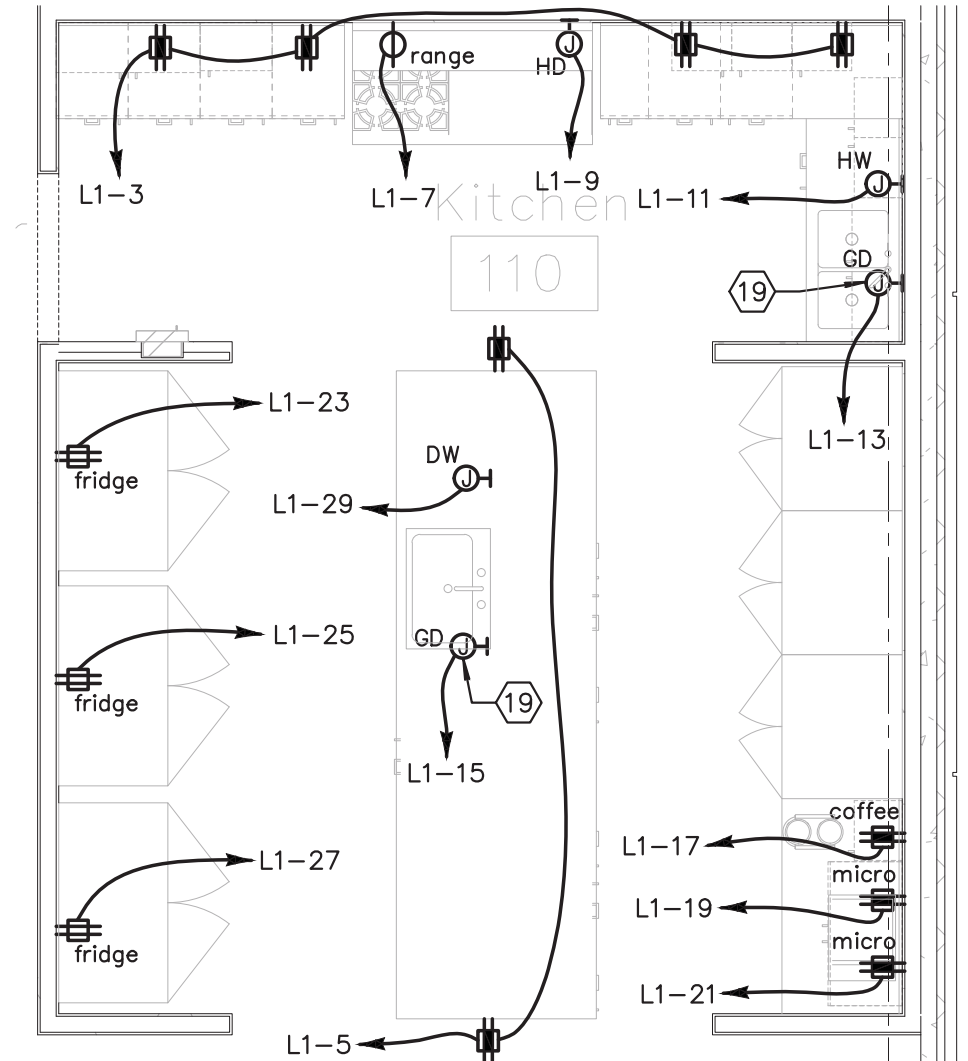
**2 ENLARGED MECH / ELEC ROOM**  
E3.1 SCALE: 1/4" = 1'-0"



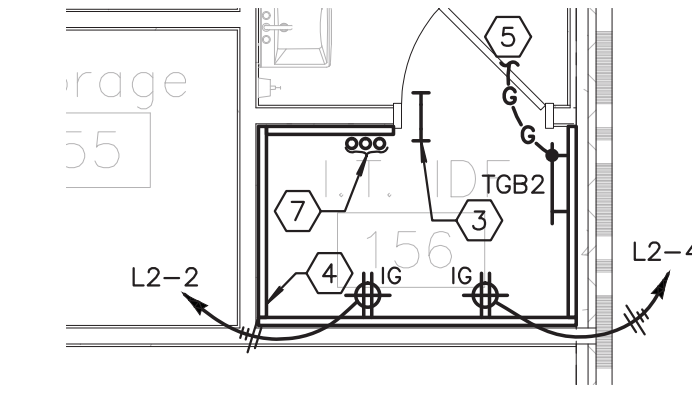
**3 ENLARGED MECH / ELEC ROOM**  
E3.1 SCALE: 1/4" = 1'-0"



**4 ENLARGED IT IDF ROOM**  
E3.1 SCALE: 1/4" = 1'-0"



**5 ENLARGED KITCHEN PLAN**  
E3.1 SCALE: 1/4" = 1'-0"



**6 ENLARGED IT IDF ROOM**  
E3.1 SCALE: 1/4" = 1'-0"

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POWER & COMMUNICATIONS PLAN

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**E3.1**





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**MECHANICAL POWER PLAN**

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DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**E4.1**

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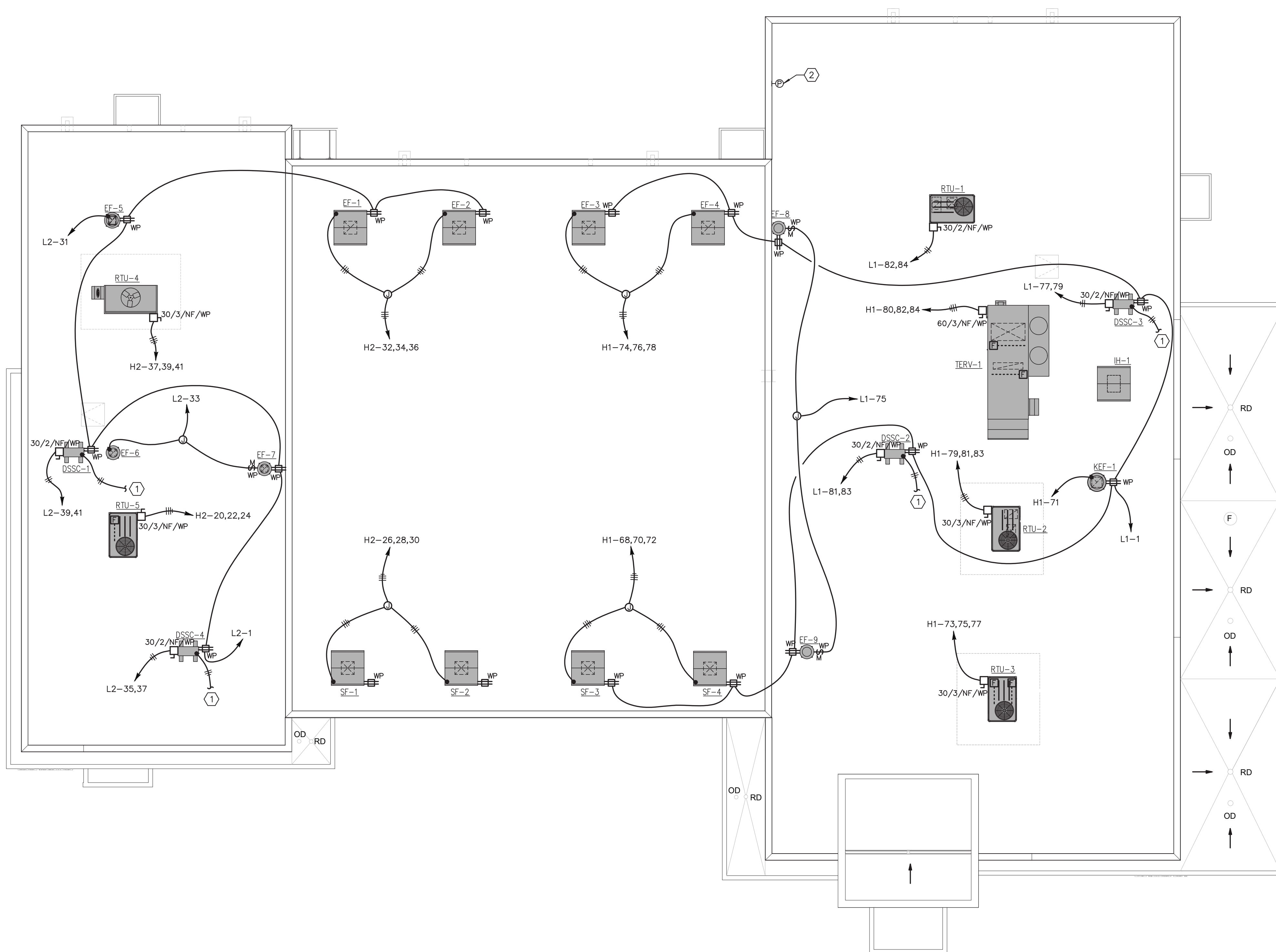
- MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
- REFER TO MECHANICAL DRAWINGS FOR EXACT DUCT DETECTOR MOUNTING LOCATION AND QUANTITIES. (TYPICAL)

**MECHANICAL POWER PLAN**  
 E4.1 SCALE: 1/8" = 1'-0"

**KEYNOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

- PROVIDE 2#12, #12G. - 0.75" CONDUIT TO CORRESPONDING CONDENSING UNIT LOCATED ON ROOF.
- THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND PLUMBING DIVISIONS TO PROVIDE A SHOP DRAWING INDICATING ALL ELECTRICAL EQUIPMENT, HVAC EQUIPMENT, CIRCULATION PUMP CONTROLS, ETC., THAT ARE SUBMITTED TO BE LOCATED WITHIN MECH/ELEC ROOM. THE SHOP DRAWING SHALL PROVIDE ALL CODE REQUIRED CLEARANCES AND MANUFACTURER RECOMMEND MAINTENANCE CLEARANCES FOR ALL EQUIPMENT. THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT.





**GENERAL NOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

1. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
2. REFER TO MECHANICAL DRAWINGS FOR EXACT DUCT DETECTOR MOUNTING LOCATION AND QUANTITIES. (TYPICAL)

**MECHANICAL POWER ROOF PLAN**

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

**KEYNOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

1. PROVIDE 2#12, #126, IN 0.75" CONDUIT TO CORRESPONDING FAN COIL UNIT LOCATED INSIDE.
2. EXTERIOR PHOTOCELL - U.L. LISTED FOR WET LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT & OWNER PRIOR TO ROUGH-IN. PHOTOCELL SHOULD BE MOUNTED ON THE ROOF, FACING NORTH. PHOTOCELL SHOULD HAVE AN UNRESTRICTED VIEW OF THE SKYLINE AND SHOULD NOT FACE ANY NIGHTTIME LIGHTING SOURCES.

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MECHANICAL POWER ROOF PLAN	CHECKED	RVG
DESIGN	DRAWN	CAD
PCE		

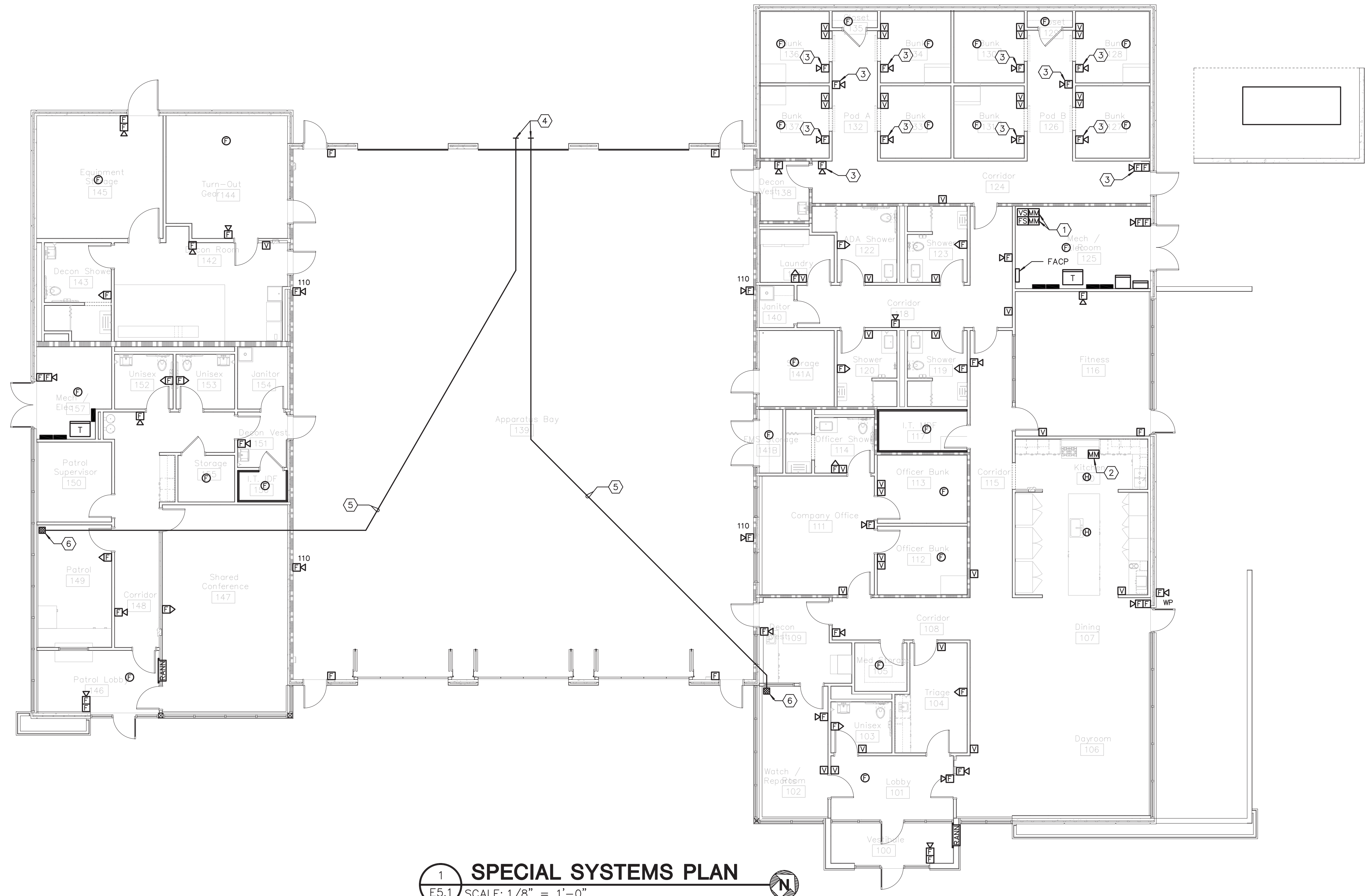
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DATE	DESCRIPTION
10/26/21	RELEASED FOR BID

10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**E4.2**





1 SPECIAL SYSTEMS PLAN  
 E5.1 SCALE: 1/8" = 1'-0"

**KEYNOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

- 1 COORDINATE QUANTITIES OF FLOW SWITCHES, VALVE SUPERVISORY SWITCHES AND MONITOR MODULES REQUIRED WITH FIRE PROTECTION VENDOR DRAWINGS.
- 2 FIRE ALARM MONITOR MODULE FOR MONITORING RELEASE OF HOOD FIRE SUPPRESSION SYSTEMS.
- 3 PROVIDE LOW FREQUENCY DEVICES THAT COMPLY WITH NFPA 72, ARTICLE 18.4.5.3. FIRE ALARM VENDOR SHALL PROVIDE A dB ANALYSIS TO CONFIRM THAT THE INDICATED DEVICES ARE SUFFICIENT TO PROVIDE THE NECESSARY dB LEVEL AT THE PILLOW WHEN EACH BUNK ROOM DOOR IS CLOSED AND MEETS THE REQUIREMENTS OF NFPA 72, ARTICLE 18.4.5.1 & 18.4.5.2.
- 4 PROVIDE (1) 2.00" CONDUIT WITH MAXIMUM 45° BEND TO EXTERIOR WEATHERHEAD. COORDINATE WEATHERHEAD INSTALLATION WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN.
- 5 PROVIDE (1) 2.00" CONDUIT WITH MAXIMUM 45° BEND AND PULL STRING FROM RADIO TO EXTERIOR WEATHERHEAD FOR RADIO ANTENNA INSTALLATION.
- 6 PULL BOX, SIZE AS REQUIRED, LOCATED ABOVE ACCESSIBLE CEILING - REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES:** (THIS SHEET ONLY, EXCEPT AS NOTED)

- 1. PAGING SPEAKERS, RADIO SPEAKERS, CAMERAS, AND VOICE AND DATA EQUIPMENT IS SHOWN FOR REFERENCE ONLY. LOW-VOLTAGE EQUIPMENT DOES NOT INDICATE ALL COMPONENTS REQUIRED FOR A COMPLETE VOICE/DATA SYSTEM - REFER TO VOICE/DATA CONSULTANT DRAWINGS FOR COMPLETE RACEWAY REQUIREMENTS.
- 2. IT LAYOUT IN MECH/ELEC ROOM IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL COMPONENTS REQUIRED FOR A COMPLETE VOICE/DATA SYSTEM - REFER TO VOICE/DATA CONSULTANT DRAWINGS FOR COMPLETE RACEWAY REQUIREMENTS.
- 3. ALL NETWORK ELECTRONICS AND RACK MOUNTED UPS SYSTEMS SHALL BE SPECIFIED BY THE OWNER AND PROVIDED BY OTHERS.
- 4. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
- 5. CONTRACTOR SHALL COORDINATE WALL HEIGHTS WITH ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN PURPOSES.

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SPECIAL SYSTEMS PLAN

DESIGN	PCE	DRAWN	CAD	CHECKED	RVG
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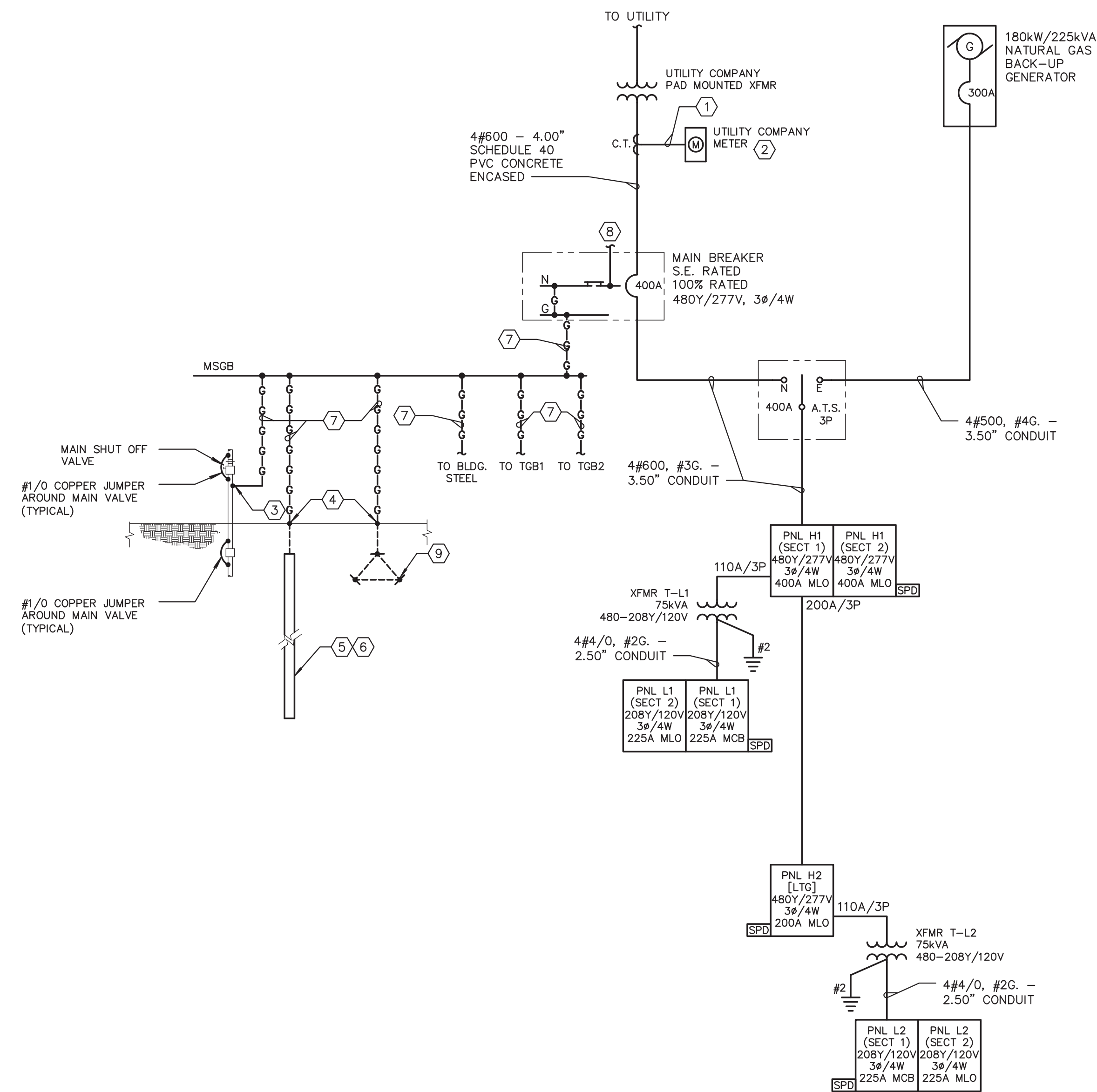
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10/26/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**E5.1**



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1 ONE-LINE DIAGRAM  
E6.1 SCALE: N.T.S

**KEYNOTES:**

(DETAIL 1/E6.1b ONLY)

- 1 PROVIDE (1) 1.50" GALVANIZED RIGID CONDUIT WITH PULL STRING. FIELD COORDINATE EXACT LOCATION AND ARRANGEMENT WITH UTILITY COMPANY.
- 2 COORDINATE METER REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED BACK BOXES AND EQUIPMENT REQUIRED BY UTILITY COMPANY.
- 3 PROVIDE SPECIFIED CLAMP AND CONNECT TO EXISTING COLD WATER PIPE AHEAD OF MAIN SHUT-OFF VALVE OR UNION.
- 4 TRANSITION FROM EXPOSED CABLE TO BURIED CABLE.
- 5 PROVIDE "UFER" CONCRETE-ENCASED ELECTRODE (COMPLY WITH NEC 250.53(A)(3)) THAT CONSIST OF MINIMUM 20'-0" OF EITHER:
  - ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 0.50" IN DIAMETER, INSTALLED IN ONE CONTINUOUS 20'-0" LENGTH, OR IN MULTIPLE PIECES CONNECTED TOGETHER BY STEEL TIE WIRES, EXOTHERMICALLY WELDED TO CREATE A 20'-0" OR GREATER LENGTH.
  - #4/0 BARE COPPER CONDUCTOR.
- 6 ALL METALLIC COMPONENTS OF "UFER" GROUNDING ELECTRODE SHALL BE ENCASED BY MINIMUM OF 2" OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. (NOTE-CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE EARTH). COORDINATE INSTALLATION REQUIREMENTS WITH STRUCTURAL DIVISION.
- 7 PROVIDE #4/0 IN 1.00" PVC CONDUIT.
- 8 OUTGOING NEUTRAL.
- 9 PROVIDE 0.75"x10' LONG COPPER CLAD GROUND RODS SPACED 10' APART, 24" TO TOP BELOW THE GRADE AND 24" MINIMUM LATERAL DISTANCE FROM THE BLDG.

**GENERAL NOTES:**

(THIS SHEET ONLY, EXCEPT AS NOTED)

1. REFER TO SPECIFICATION SECTION 260573 FOR AIC RATING REQUIREMENTS FOR ALL ELECTRICAL EQUIPMENT INDICATED ON THE ONE-LINE DIAGRAM.

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ONE-LINE DIAGRAM	CHECKED	RVG
DESIGN	DRAWN	CAD
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E6.1



SCHEDULE OF PANEL H1														SECTION 1														SCHEDULE OF PANEL H1														SECTION 2													
MAINS: <input type="checkbox"/> LUGS ONLY 400A <input type="checkbox"/> MAIN BREAKER														VOLTAGE: <input type="checkbox"/> 208Y/120V, 3ø, 4W <input checked="" type="checkbox"/> 480Y/277V, 3ø, 4W <input type="checkbox"/> 200% NEUTRAL <input checked="" type="checkbox"/> GROUND														MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE														SCRR: 22,000 A NOTE: SAME RATINGS AS SECTION 1													
CKT NO	DESCRIPTION	WIRING				LOAD (KVA)	NOTE S	BKR	P O L E S	P O L E S	BKR	NOTE S	LOAD (KVA)	WIRING				DESCRIPTION	CKT NO	CKT NO	DESCRIPTION	WIRING				LOAD (KVA)	NOTE S	BKR	P O L E S	P O L E S	BKR	NOTE S	LOAD (KVA)	WIRING				DESCRIPTION	CKT NO																
		PH	N	GND	COND									PH	N	GND	COND					PH	N	GND	COND									PH	N	GND	COND																		
1	NORTH LTG					1.51	20	1	A	1	20	0.25					LTG CONTACTOR RM 125	2	43	SPACE																		44																	
3	SOUTH LTG					1.46	20	1	B	1	20	1.48	#10	#10	#10	0.75"	EXT BLDG LTG VIA LC1	4	45	SPACE																	46																		
5	APPARATUS BAY LTG					1.92	20	1	C	1	20	1.03	#10	#10	#10	0.75"	EXT SITE LTG VIA LC1	6	47	SPACE																		48																	
7	SPARE						20	1	A	1	20	1.15	#10	#10	#10	0.75"	EXT SITE LTG VIA LC1	8	49	SPACE																		50																	
9	SPARE						20	1	B	1	20						SPARE	10	51	SPACE																		52																	
11	SPARE						20	1	C	1	20						SPARE	12	53	SPACE																		54																	
13	SPARE						20	1	A	1	20						SPARE	14	55	SPACE																		56																	
15	SPARE						20	1	B	1	20						SPARE	16	57	SPACE																		58																	
17	SPACE						20	1	C	1	20						SPARE	18	59	SPACE																		60																	
19	SPACE						20	1	A	1	20						SPACE	20	61	SPACE																		62																	
21	SPACE						20	1	B	1	20						SPACE	22	63	KSF-1																		64																	
23	SPACE						20	1	C	1	20						SPACE	24	65	SPACE																			66																
25	SPACE						20	1	A	1	20						SPACE	26	67	EDH-1																			68																
27	SPACE						20	1	B	1	20						SPACE	28	69	SPACE																			70																
29	SPACE						20	1	C	1	20						SPACE	30	71	KEF-1																			72																
31	SPACE						20	1	A	1	20						SPACE	32	73	SPACE																			74																
33	SPACE						20	1	B	1	20						SPACE	34	75	RTU-3																			76																
35	SPACE						20	1	C	1	20						SPACE	36	77	SPACE																			78																
37							20	1	A	1	20						SPACE	38	79	SPACE																			80																
39	PANEL H2	3#	#3/0	#6	2.00"	87.54	200	3	B	3	110	43.86	3#2	-	#2	1.25"	PANEL L1 VIA XFMR T-1	40	81	RTU-2																	82																		
41																																						84																	

SCHEDULE OF PANEL L1														SECTION 1														SCHEDULE OF PANEL L1														SECTION 2													
MAINS: <input type="checkbox"/> LUGS ONLY <input checked="" type="checkbox"/> MAIN BREAKER 225A														VOLTAGE: <input type="checkbox"/> 208Y/120V, 3ø, 4W <input checked="" type="checkbox"/> 480Y/277V, 3ø, 4W <input type="checkbox"/> 200% NEUTRAL <input checked="" type="checkbox"/> GROUND														MOUNTING: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE														SCRR: 10,000 A NOTE: SAME RATINGS AS SECTION 1													
CKT NO	DESCRIPTION	WIRING				LOAD (KVA)	NOTE S	BKR	P O L E S	P O L E S	BKR	NOTE S	LOAD (KVA)	WIRING				DESCRIPTION	CKT NO	CKT NO	DESCRIPTION	WIRING				LOAD (KVA)	NOTE S	BKR	P O L E S	P O L E S	BKR	NOTE S	LOAD (KVA)	WIRING				DESCRIPTION	CKT NO																
		PH	N	GND	COND									PH	N	GND	COND					PH	N	GND	COND									PH	N	GND	COND																		
1	ROOF CONV REC					1.62	20	1	A	1	20	5	1.00	#12	2#12	#12	0.75"	DED QUAD REC - RM 117	2	43	REC RM 127 & 128																		44																
3	REC RM 110					0.72	20	1	B	1	20	5	1.00	#12	2#12	#12	0.75"	DED QUAD REC - RM 117	4	45	REC RM 130 & 131																		46																
5	REC RM 110					0.36	20	1	C	1	20	5	1.00	#12	2#12	#12	0.75"	DED QUAD REC - RM 117	6	47	REC RM 133 & 134																			48															
7	RANGE RM 110					0.60	20	1	A	1	20	5	1.00	#12	2#12	#12	0.75"	DED QUAD REC - RM 117	8	49	REC RM 136 & 137																			50															
9	HOOD RM 110					0.25	20	1	B	1	15	0.25					GENERATOR ANNUN RM 111	10	51	SHORE LINE APP BAY																			52																
11	INSTA-HOT RM 110					1.00	20	1	C	1	20	1.32					REC RM 106	12	53	SHORE LINE APP BAY																			54																
13	DISPOSAL RM 110					0.86	20	1	A	1	20	1.44					FLR REC RM 106	14	55	SHORE LINE APP BAY																			56																
15	DISPOSAL RM 110					0.86	20	1	B	1	20	5	0.72	#12	2#12	#12	0.75"	REC RM 111	16	57	SHORE LINE APP BAY																			58															
17	COFFEE RM 110					1.80	20	1	C	1	20	1.50					REC RM 111	18	59	SHORE LINE APP BAY																			60																
19	MICROWAVE RM 110					1.56	20	1	A	1	20	1.08					REC RM 112,113,117,141A	20	61	SHORE LINE APP BAY																			62																
21	MICROWAVE RM 110					1.56	20	1	B	1	20	1.44					INTERIOR GFCI REC	22	63	WIRELESS ALL PAGE SYS																			64																
23	FRIDGE RM 110					1.23	20	1	C	1	20	4	0.67				WASHER RM 121	24	65	REC RM 139																			66																
25	FRIDGE RM 110					1.23	20	1	A	1	20	4	0.25				DRYER RM 121	26	67	VEHICLE EXHAUST CNTRL																			68																
27	FRIDGE RM 110					1.23	20	1	B	1	20	0.96					REC RM 116	28	69	GEN BATTERY CHARGER																				70															
29	DISHWASHER RM 110					0.60	20	1	C	1	20	0.86					DED REC RM 116	30	71	GENERATOR JACKET HEATER																			72																
31	REC RM 102	#12	2#12	#12	0.75"	0.72	5	20	1	A	1	20	0.86				DED REC RM 116	32	73	DED REC RM 116																			74																
33	REC RM 102	#12	2#12	#12	0.75"	0.72	5	20	1	B	1	20	0.86				DED REC RM 116	34	75	EF-8 & EF-9																			76																
35	COPIER RM 102					0.60	20	1	C	1	20	0.86					DED REC RM 116	36	77	DED REC RM 116																			78																
37	ICE MACHINE RM 109					1.28	15	1	A	1	20	1.26					CONV REC	38	79	DSSA-3 & DSSC-3																			80																
39	INTERIOR GFCI REC					1.08	20	1	B	1	20	0.86					EXT CONV REC	40	81	EXT CONV REC																			82																
41	CONV REC					1.26	20	1	C	1	20	0.72					EXT CONV REC	42	83	DSSA-2 & DSSC-2																			84																

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 FILE NUMBER: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_  
 FILE NUMBER: \_\_\_\_\_

E6.2

PANEL SCHEDULES

DESIGN: PCE  
 DRAWN: CAD  
 CHECKED: RVG

PROJECT

SHEET TITLE

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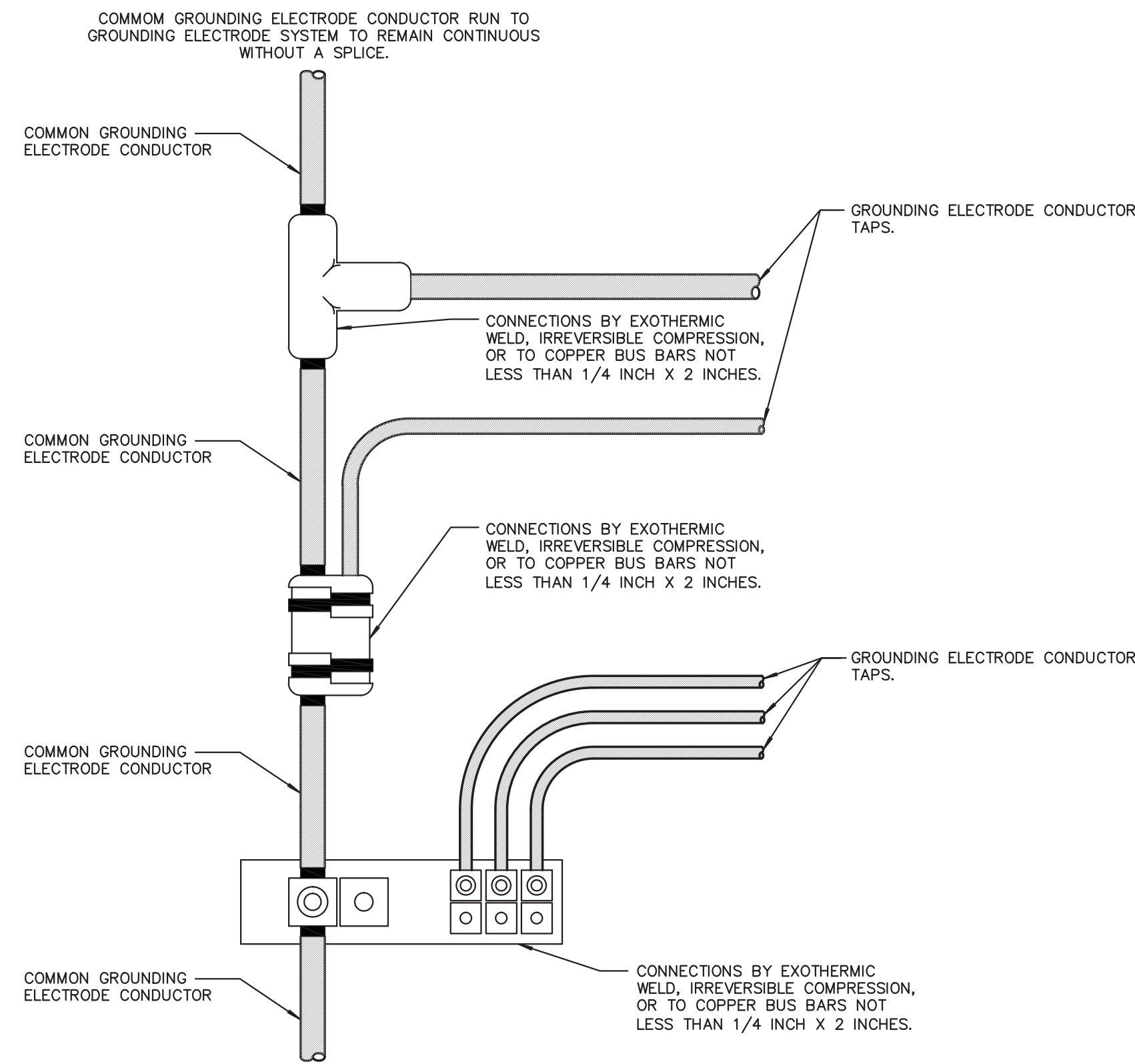
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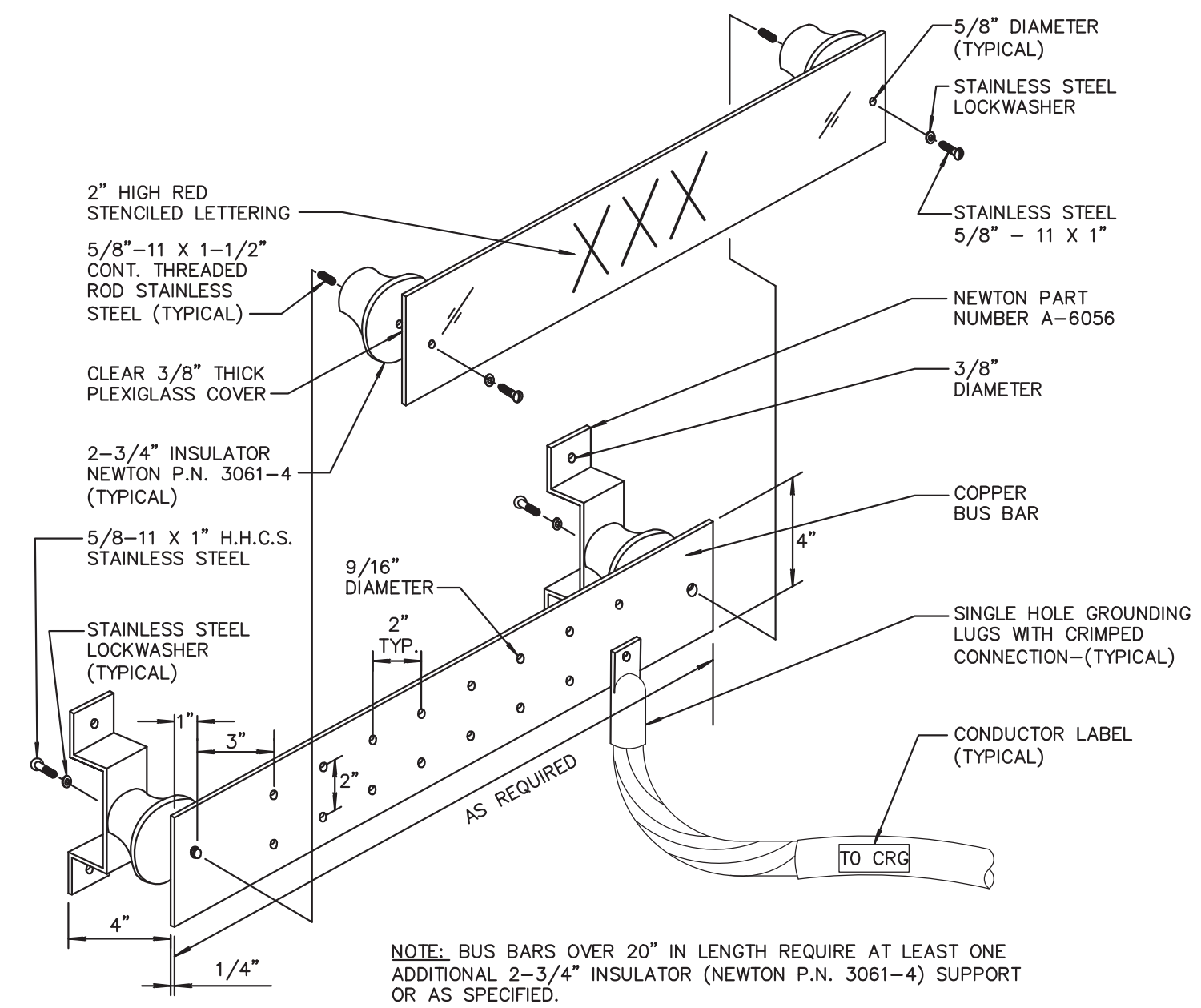
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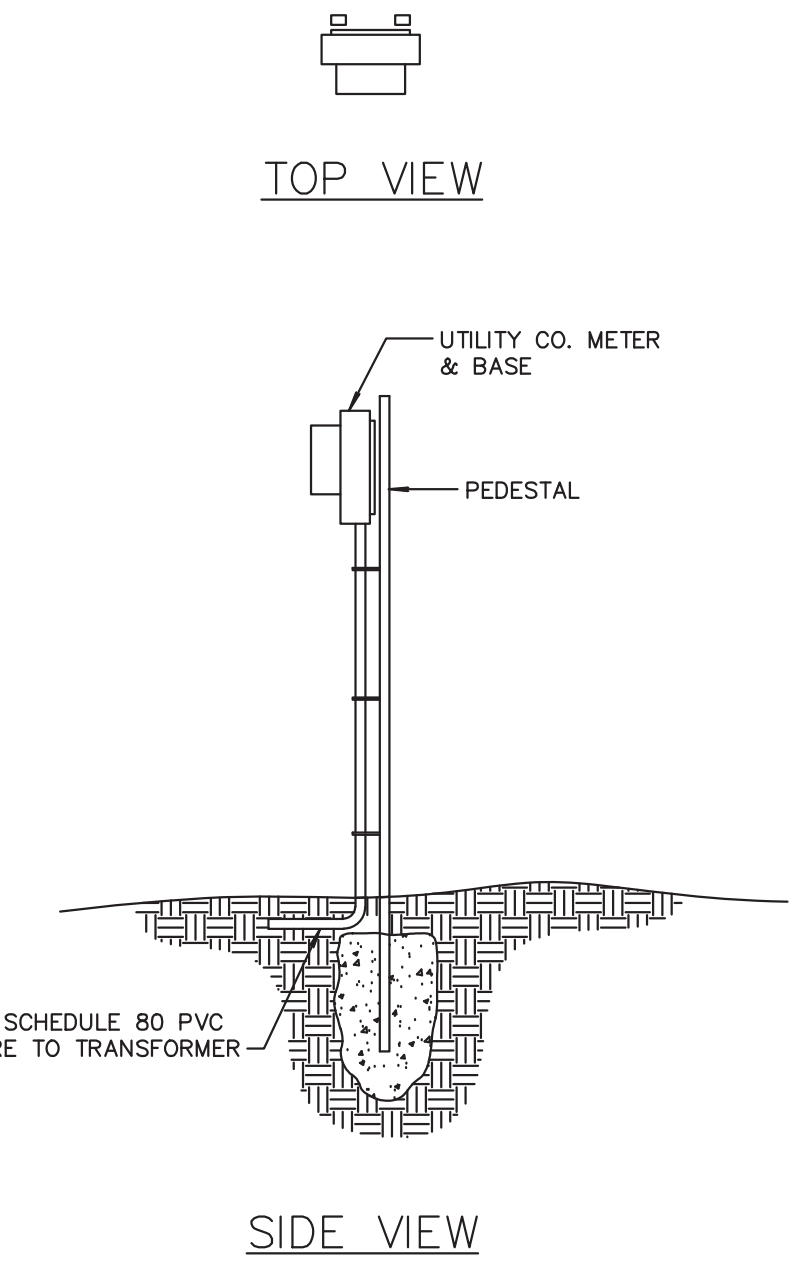




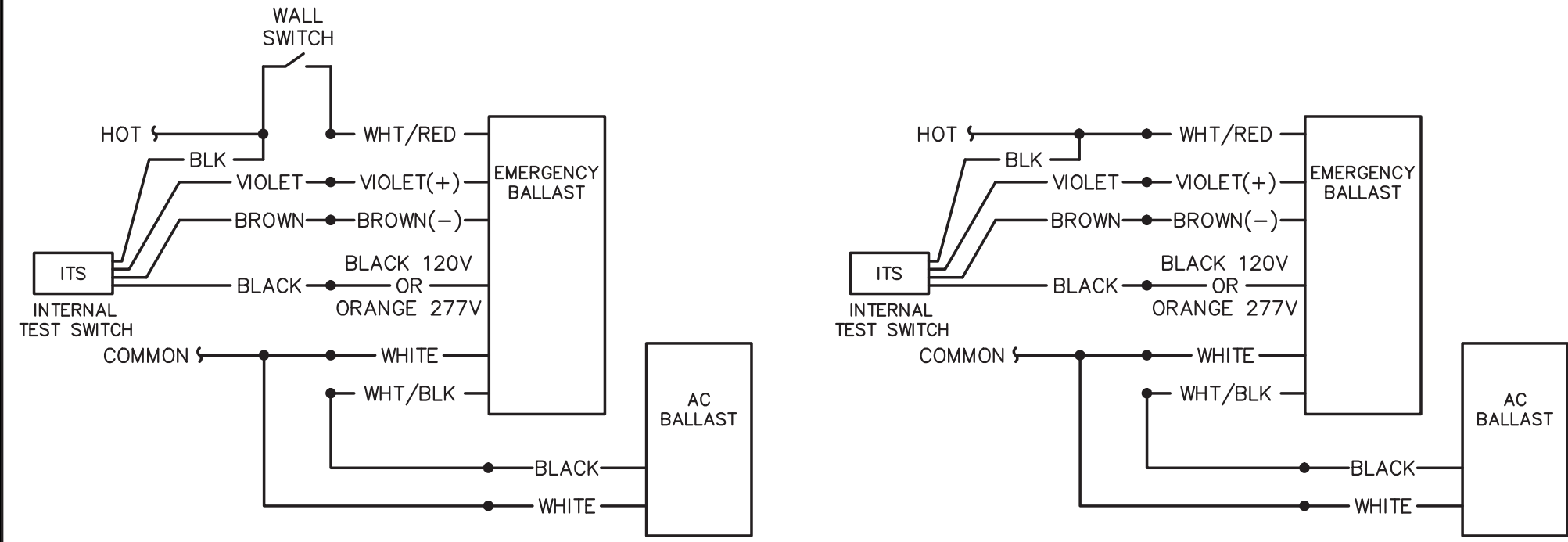
1 GROUNDING CONNECTION DETAIL  
E7.1 SCALE: N.T.S



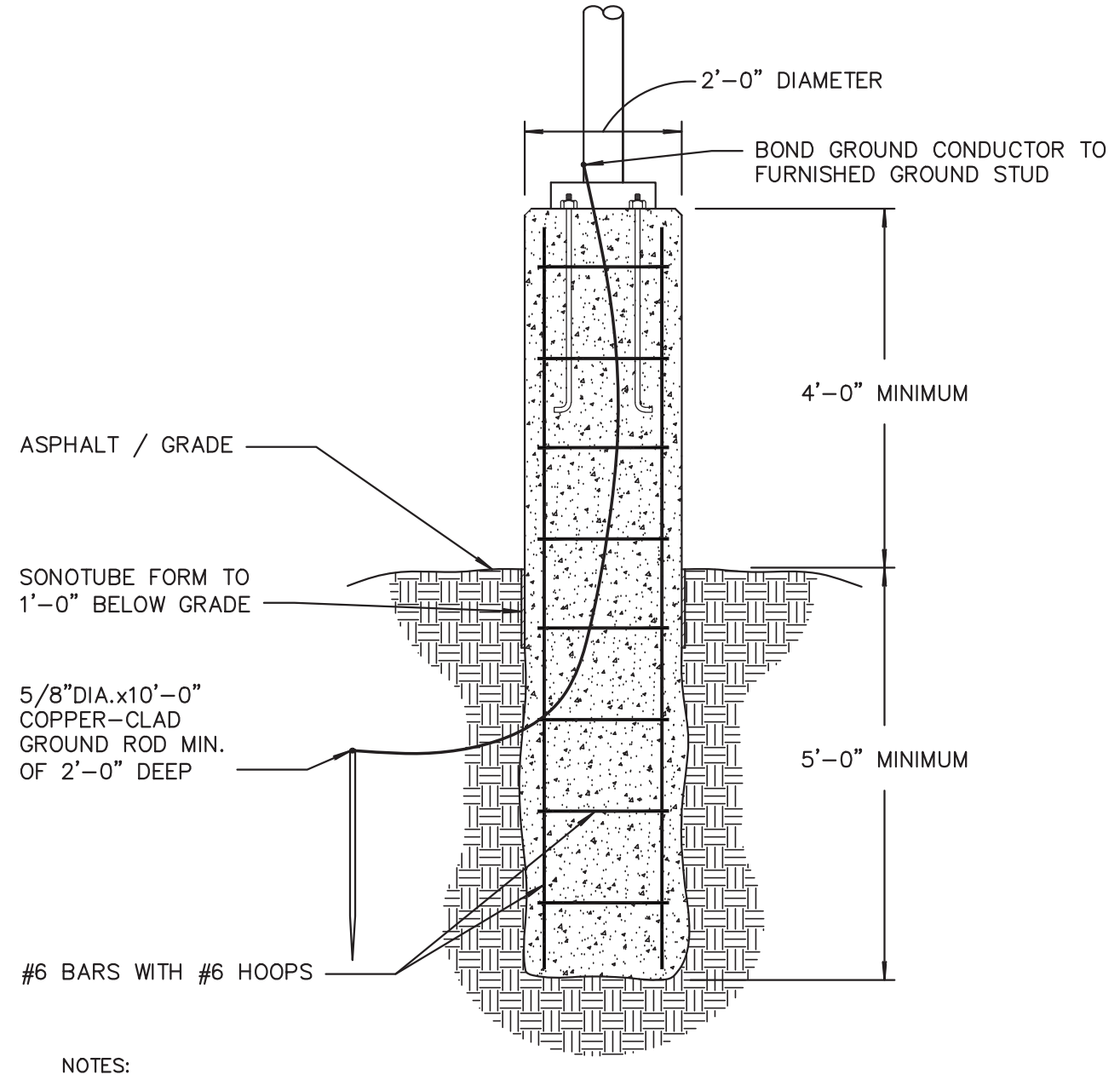
2 GROUND BUS DETAIL  
E7.1 SCALE: N.T.S



3 METER PEDESTAL DETAIL  
E7.1 SCALE: N.T.S

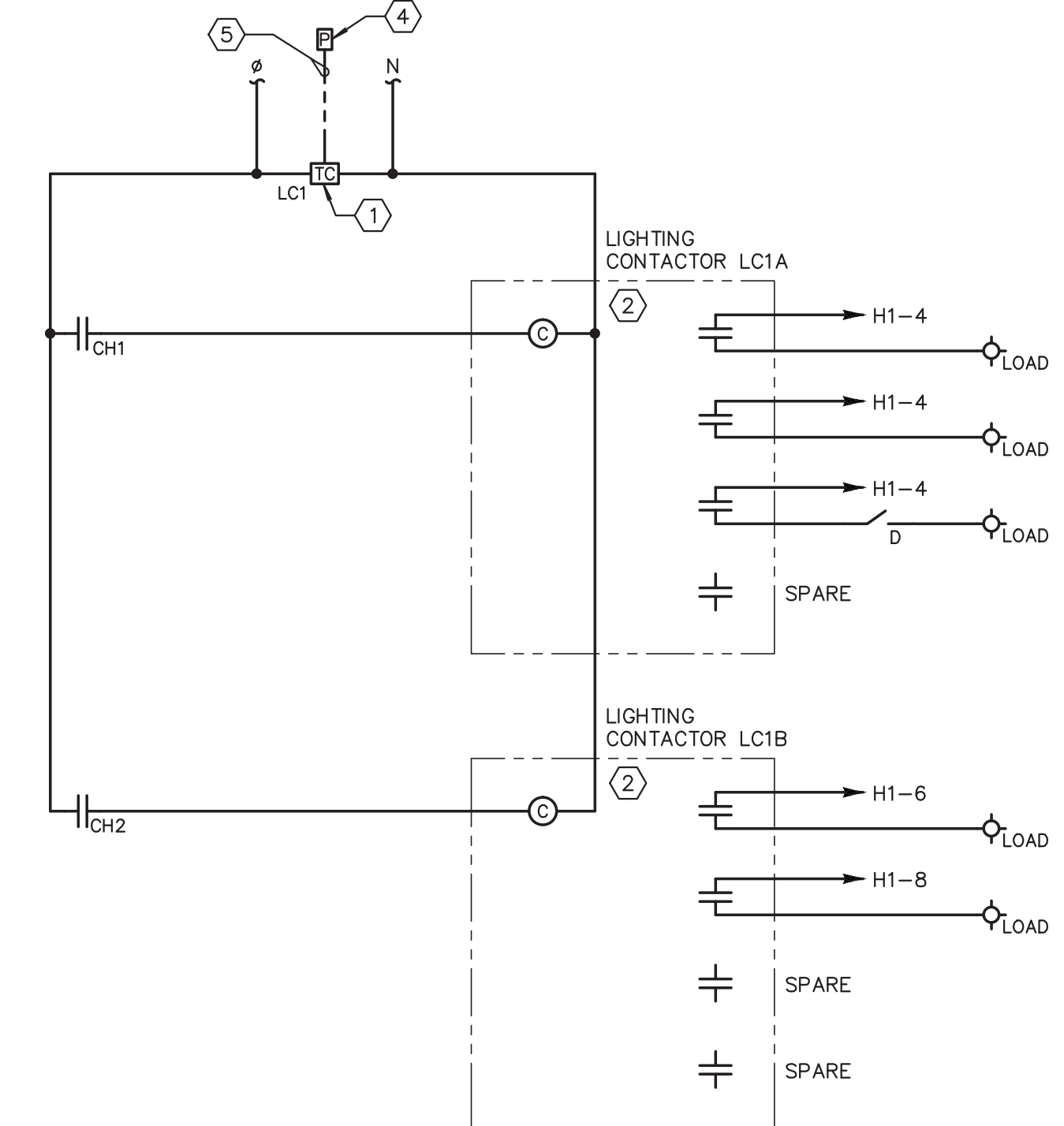


4 EMERGENCY BALLAST WIRING DIAGRAM  
E7.1 SCALE: N.T.S



- NOTES:
- PRECAST BASES ARE NOT ACCEPTABLE.
  - ONLY THE TOP 5'-0" OF BASE SHALL BE FORMED.
  - THE LOWER PORTION SHALL HAVE CONCRETE POURED IN DIRECT CONTACT WITH EXCAVATED EARTH.
  - AFTER POLE IS PLUMB, FILL AREA UNDER POLE BASEPLATE WITH NON-SHRINKING GROUT AND CHAMFER EDGES.
  - SUFFICIENT SLACK SHALL BE LEFT IN BRANCH CIRCUIT CONDUCTORS TO ALLOW WIRE CONNECTIONS TO BE MADE OUTSIDE OF HANDHOLE.
  - LOCATE ALL BASES AS DIRECTED BY CIVIL ENGINEER.
  - BASES SHALL BE MADE OF 3000 PSF CONCRETE MINIMUM.
  - PROVIDE (1) 0.75" SPARE CONDUIT STUBBED OUT EACH BASE AND CAPPED.
  - LOCATE ANCHOR BOLTS PER MANUFACTURERS INSTRUCTIONS.
  - REMOVE EXPOSED FORM AFTER CONCRETE CURES.
  - ALL POLE BASES SHALL BE LOCATED A MINIMUM OF 5'-0" BEHIND THE CURB LINE.

5 POLE BASE DETAIL  
E7.1 SCALE: N.T.S



- KEYNOTES: (DETAIL 6/E6.02 ONLY)
- DIGITAL ASTRONOMICAL TIME CLOCK WITH (2) CHANNELS THAT OPERATE INDEPENDENTLY OF EACH OTHER - EACH CHANNEL WITH (99) ON-OFF OPERATIONS.
  - 4-POLE ELECTRICALLY HELD, ELECTRICALLY OPERATED LIGHTING CONTACTOR.
  - DIGITAL TIMER OVERRIDE SWITCH.
  - EXTERIOR PHOTO CELL - REFER TO KEYNOTE-15 ON SHEET E1.2 FOR ADDITIONAL INFORMATION.
  - PROVIDE MANUFACTURER RECOMMENDED WIRING/CABING IN 0.75" CONDUIT.

6 LIGHTING CONTACTOR DIAGRAM  
E7.1 SCALE: N.T.S

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PROJECT

DETAILS

DESIGN PLO DRAWN CAD CHECKED RVG

SHEET TITLE

NO.	DESCRIPTION	DATE
1	RELEASED FOR BID	10/26/21

10/26/2021 DATE

A21-006 PROJ. NUMBER

FILE NAME

FILE NUMBER

E7.1



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**SHEET TITLE**

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SYMBOLS SHOWN ON THIS SHEET ARE FOR REFERENCE AND FOR THE USE IN UNDERSTANDING THE BASIC DESIGN INTENT. NOT ALL SYMBOLS LISTED BELOW ARE NECESSARILY USED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

USE OF THE TERM "TYPICAL" IN THESE DOCUMENTS MEANS INFORMATION SHOWN IS REPRESENTATIVE OF PROJECT DESIGN REQUIREMENTS. WORK PERFORMANCE MATERIALS PROVIDED & INSTALLED NEED TO BE ADJUSTED TO SITE CONDITIONS. ADAPT AS REQUIRED.

- GENERAL NOTES:**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL GOVERNING CODES, STANDARDS AND ORDINANCES AS ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
  - DRAWINGS, IN GENERAL, ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY, IN CONJUNCTION WITH THE COMPLETE CONTRACT DOCUMENTS, A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATION OF WORK WITH OTHER TRADES IS REQUIRED BEFORE PROCEEDING WITH WORK.
  - DO NOT SCALE DRAWINGS - USE DIMENSIONS ONLY. FOR DIMENSIONS NOT SHOWN OR IN QUESTION, CONTRACTOR SHALL REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
  - CONTRACTOR SHALL PROVIDE A COMPLETE OPERATIONAL AND FUNCTIONING SYSTEM. CONTRACTOR SHALL PROVIDE CONNECTIONS TO OWNER, OR OTHER PARTYS EQUIPMENT AND DEVICES, UNLESS OTHERWISE NOTED.
  - REFERENCE COMPLETE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, MECHANICAL, PLUMBING, ETC.) PRIOR TO COMMENCING WORK FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S/ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH WORK.
  - NUMBERS LISTED ADJACENT SYMBOL (N) DENOTES QUANTITY OF OUTLETS REQUIRED. BLANK NO NUMBER = QUANTITY OF 1.
  - TELECOMMUNICATION BACKBOARDS SHALL BE PAINTED WITH A LOW SMOKE PAINT. PROVIDE GROUNDING CONDUCTOR TO SERVICE ENTRANCE. PROVIDE RECEPTACLE(S) AS INDICATED.
  - VERIFY PROPER WORKING VOLTAGES AND FREQUENCY BEFORE CONNECTING EQUIPMENT TO BRANCH CIRCUIT POWER.
  - DEVICE TYPICALLY PART OF AN AV/IO FUNCTION SPACE WALL PLATE BUT CAN EXIST INDIVIDUALLY WITHIN SMALL MEETING/BOARDROOMS. REFERENCE AV/IO PLATE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
  - DEVICE TYPICALLY PROVIDED AS FF&E / OSE AS A PART OF CAT-6 UTP CABLE COILED ABOVE ACCESSIBLE CEILING AT DEVICE LOCATIONS INDICATED ON FLOORPLANS. REF. DETAIL #2 / T6.4 FOR ADDITIONAL INFORMATION.
  - DELIVER ANY MANUFACTURER SPECIFIC BACKBOXES AND/OR MOUNTING HARDWARE TO RACEWAY INSTALLER FOR ROUGH-IN INSTALLATION ALONG WITH CONDUITS.
  - MOUNT IN NETWORK TERMINATIONS RACK. COORDINATE INSTALLATION WITH IT DEPT.
  - FIRE ALARM SYSTEMS - TELEPHONE/DATA CONNECTIVITY, OUTSIDE C.O. LINES, ETC.
  - BUILDING MANAGEMENT SYSTEMS - NETWORK CONNECTIVITY, OPTICAL FIBER STRAND REQUIREMENTS, ETC.
  - DIRECT DIGITAL CONTROL SYSTEMS - NETWORK CONNECTIVITY, OPTICAL FIBER STRAND REQUIREMENTS, ETC.
  - HVAC EQUIPMENT - NETWORK CONNECTIVITY, ETC.
  - PLUMBING - CONTROL PANELS, IGNITER CIRCUIT POWER, LEAK DETECTION ETC.
  - REFRIGERANT DETECTION AND PURGE SYSTEMS - NETWORK CONNECTIVITY, REMOTE REPORTING REQUIREMENTS/ALARMS, ETC.
  - CARBON MONOXIDE DETECTION AND PURGE SYSTEMS - NETWORK CONNECTIVITY, REMOTE REPORTING REQUIREMENTS/ALARMS, ETC.
  - CARBON DIOXIDE DETECTION SYSTEMS - NETWORK CONNECTIVITY, REMOTE REPORTING REQUIREMENTS/ALARMS, ETC.
  - GENERATOR - NETWORK CONNECTIVITY, REMOTE REPORTING/ALARMS, ETC.
  - ELEVATOR - TELEPHONE CONNECTIVITY FOR IN-CAB COMMUNICATIONS, NETWORK CONNECTIVITY, REMOTE REPORTING REQUIREMENTS/ALARMS, TELEVISION DISTRIBUTION SYSTEM CONNECTIVITY, SURVEILLANCE AND ACCESS CONTROL INTEGRATION.
  - PROVIDE GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT POWER SERVING TECHNOLOGY SYSTEMS, IN ADDITION TO ALL REQUIRED RACEWAY GROUNDING.
  - PROVIDE PERMANENT BARRIER PLATE IN JUNCTION BOXES TO SEPARATE 120V AND LOW VOLTAGE SYSTEMS PER NEC.
  - MATERIALS EXPOSED WITHIN SPACES ABOVE A CEILING BEING UTILIZED AS A RETURN AIR FLENUM SHALL BE NON-COMBUSTIBLE, OR SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84.

TELECOMMUNICATIONS (VOICE / DATA)			
SYMBOL	DESCRIPTION	MTG HEIGHT	NOTES
▽	TELEPHONE OUTLET (RJ-45 JACK, CAT-6)	+18" AFF	T1, T2
▽	DATA OUTLET (RJ-45 JACK, CAT-6)	+18" AFF	T1, T2
▽	VOICE/DATA OUTLET (2x RJ-45 JACK, 2x CAT-6)	+18" AFF	T1, T2
▽	ABOVE COUNTER MOUNTED	CTR +8"	T1, T2
▽	FLOOR MOUNTED	FLOOR	T7
▽	CEILING MOUNTED	CEILING	T7
▽	QUANTITY OF VOICE JACKS & CABLES (RJ-45, CAT-6) QUANTITY OF DATA JACKS & CABLES (RJ-45, CAT-6) SINGLE-GANG, MULTIPLE JACK, VOICEDATA OUTLET (Provide specified # of jacks in single gang plate.)	+18" AFF	T1
▽	WIRELESS ACCESS POINT (802.11n/g)	CEILING	T6
▽	DOOR INTERCOM MASTER STATION (DOOR-KING)	DESKTOP	S13
▽	INTERCOM DOOR STATION (DOOR-KING)	+42" AFF	T7
▽	TELECOMMUNICATIONS BACKBOARD (IDFITC)		T3
▽	RESIDENTIAL CONSOLIDATION CABINET (RCC)		
▽	EIA 19" EQUIPMENT RACK "A" = AUDIO, "T" = CATV, "S" = SECURITY/DVRs, "V" = VOICE/PBX, "D" = DATASERVERS (Letter Designates Location)		T4
▽	WALL MOUNT RACK FRAME "A" = AUDIO, "S" = SECURITY/DVRs, "D" = DATA TERMINATIONS SWITCHES		T4

TELEVISION SIGNAL DISTRIBUTION (CATV / MATV / SATV)			
SYMBOL(S)	DESCRIPTION - HORIZONTAL DISTRIBUTION	MTG HEIGHT	NOTES
TV1	IPTY OUTLET, 1 DATA, 1 COAX (F-CONNECTOR & 1 RJ-45 / 1 CAT-6)	C5	C1, C3, C4
TV2	IPTY OUTLET, 2 DATA, 1 COAX (F-CONNECTOR & 2 RJ-45 / 2 CAT-6)	C6	C1, C3, C4
TV	TELEVISION OUTLET (WALL MOUNT, RG-6 / U, F-CONNECTOR)	C5	C1, C3, C4
TV	TELEVISION OUTLET (FLOOR MOUNT, RG-6 / U, F-CONNECTOR)	FLOOR	C1
TV	TELEVISION OUTLET (CEILING MOUNT, RG-6 / U, F-CONNECTOR)	CEILING	C1, C4
▽	EIA 19" EQUIPMENT RACK "A" = AUDIO, "T" = CATV, "S" = SECURITY/DVRs, "V" = VOICE/PBX, "D" = DATASERVERS (Letter Designates Location)		T4

- PROVIDE RF PRODUCTS WITH BANDWIDTH RATINGS OF 900 MHz OR GREATER.
- PASSIVE TELEVISION DISTRIBUTION PRODUCTS MUST BE RATED FOR BI-DIRECTIONAL SERVICE.
- COORDINATE INSTALLATION WITH PROVIDER OF CATV OUTLET TO ACCESSIBLE LOCATION ABOVE CEILING, UNLESS OTHERWISE NOTED.
- COORDINATE OUTLET LOCATION TO BE ADJACENT ELECTRICAL BRANCH CIRCUIT POWER.
- REFERENCE INTERIOR DESIGN DOCUMENTS FOR ELEVATIONS AT FITNESS EQUIPMENT.
- REFERENCE DETAIL #8 / T5.60 FOR PUBLIC SPACE WALL MOUNT TELEVISIONS / DISPLAYS.

**ACCESSIBILITY NOTES**

ENSURE THAT CONTROLS (INCLUDING CARD READERS, EGRESS SWITCHES, INTERCOMS, DOOR BELLS, TOUCH PANELS, ZONE CONTROLS, ETC.) ARE MOUNTED NO HIGHER THAN 48" AS MEASURED TO THE TOP OF THE CONTROL DEVICE. REFERENCE ANSI SECTION 309.

SECURITY (SURVEILLANCE / ACCESS CONTROL)			
SYMBOL	DESCRIPTION - SURVEILLANCE	MTG HEIGHT	NOTES
DCP	FIXED MOUNT IP CCTV CAMERA - 5.0 MEGAPIXEL	REF DWG's	S5, S6
DCD	FIXED DOME IP CCTV CAMERA - 5.0 MEGAPIXEL	CEILING	S5, S6
VSS	SECURITY OBSERVATION WORKSTATION & DISPLAY	DESKTOP	S12
S	EIA 19" EQUIPMENT RACK "A" = AUDIO, "T" = CATV, "S" = SECURITY/DVRs, "V" = VOICE/PBX, "D" = DATASERVERS (Letter Designates Location)		S7
S	WALL MOUNT RACK FRAME "A" = AUDIO, "S" = SECURITY/DVRs, "D" = DATA TERMINATIONS SWITCHES		S7
SYMBOL	DESCRIPTION - INTRUSION DETECTION	MTG HEIGHT	NOTES
JB	JUNCTION BOX (CONSOLIDATES CABLES FOR HOMERUN TO DCP)	S8	
DCP	DOOR POSITION CONTACT SWITCH		S1
GB	GLASS BREAK DETECTOR	CEILING	
KEY	INTRUSION DETECTION SYSTEM ARMING KEYPAD	+48" AFF	
LA	LOCAL AUDIBLE ALARM		
DB	DURESS BUTTON	+48" AFF	
M	PIR MOTION DETECTOR (WHEN CONNECTED TO DP)	-12" BFC	

SECURITY (SURVEILLANCE / ACCESS CONTROL)			
SYMBOL	DESCRIPTION - ACCESS CONTROL	MTG HEIGHT	NOTES
DCP	DOOR CONTROL PANEL (DCP) (24" X 24" ENCLOSURE CONTAINING DOOR CONTROL PANELS)	>96" AFF	S7, S11
JB	JUNCTION BOX (CONSOLIDATES CABLES FOR HOMERUN TO IDP/DCP)	S8	
AD	AUTOMATIC DOOR CONTROL (ADA DOOR PUSHBUTTON)	+48" AFF	S9
AD	AUTOMATIC DOOR ACTUATOR (ADA DOOR OPENER)		S9
DC	MECHANICAL DOOR OPERATOR (NON-ADA DOOR OPENER)		S9
DC	DOOR POSITION CONTACT SWITCH		S1
CR	DUAL CREDENTIAL ACCESS CONTROL CARD READER	+48" AFF	S6, S14
KP	KEYPAD ACCESS CREDENTIAL ENTRY	+48" AFF	S6
ES	ELECTRIC DOOR STRIKE (FRAME MOUNTED LOCKING DEVICE)		S1
EL	ELECTRIC LOCKSET (MORTISE DOOR HARDWARE LOCKING DEVICE)		S1, S3
PTH	POWER TRANSFER HINGE		S1
ML	MAGNETIC DOOR LOCK		S1, S9
REX	ELECTRIFIED CRASH BAR EXIT DEVICE		S1, S3, S9
DRB	DOOR RELEASE BUTTON	+48" AFF	S9
PR	PIR REQUEST TO EXIT MOTION DETECTOR	ABV DOOR	S9
EDR	EMERGENCY DOOR RELEASE BUTTON	+48" AFF	S9
VI	VIDEOINTERCOM w / LINK TO VEHICULAR GATE / ARM	+42" AFF	S6
V	VEHICULAR RF CREDENTIAL READER (PARKING CONTROL)	OVERHEAD	

SECURITY (SURVEILLANCE / ACCESS CONTROL)			
SYMBOL	DESCRIPTION - DURESS/BLUE LIGHT SYSTEM	MTG HEIGHT	NOTES
LA	LOCAL AUDIBLE ALARM		
DB	DURESS CALL STATION/EMERGENCY PHONE (FLUSH MOUNT)	+48" AFF	S2
DB	DURESS CALL STATION/EMERGENCY PHONE (SURFACE MOUNT)	+48" AFF	S2
MDN	INTERCOM & DOOR RELEASE MASTER STATION	DESKTOP	S13
SYMBOL	DESCRIPTION - ADA DOOR ANNUNCIATION SYSTEM	MTG HEIGHT	NOTES
DB	DOORBELT BUTTON (ILLUMINATED)	+48" AFF	
LA	DOOR CHIME / ANNUNCIATOR	-12" BFC	
VI	VISUAL INDICATOR/STROBE/SIGNAL LIGHT		S10

- COORDINATE INSTALLATION WITH PROVIDER OF DOORS / DOOR HARDWARE. PREP DOOR / DOOR FRAME FOR INSTALLATION OF THIS ASSEMBLY.
- PUBLIC EMERGENCY PHONE / DURESS REPORTING STATION. COORDINATE INSTALLATION WITH MANUFACTURERS RECOMMENDATIONS. PART OF A "BLUE LIGHT" EMERGENCY CALL SYSTEM.
- REQUIRES POWER TRANSFER HINGE OR ARMORED DOOR CABLE ASSEMBLY. REFERENCE INSTALLATION DETAILS & MANUFACTURER REQUIREMENTS.
- NOT USED.
- SIGNAL CABLING INTERNET PROTOCOL, CAT-6 RATED 4-PAIR UTP.
- DELIVER ANY MANUFACTURER SPECIFIC BACKBOXES AND / OR MOUNTING HARDWARE TO RACEWAY INSTALLER FOR ROUGH-IN INSTALLATION ALONG WITH CONDUITS. REF. DETAILS IN SHEETS T5-X FOR ADDITIONAL REQUIREMENTS.
- VERIFY PROPER WORKING VOLTAGES AND FREQUENCY BEFORE CONNECTING EQUIPMENT TO BRANCH CIRCUIT POWER.
- MOUNT ABOVE DOOR(S) / ACCESSIBLE CEILINGS IN SECURED SPACE. CONSOLIDATES CABLING FOR HOMERUN TO IDP / DCP. CAN BE ELIMINATED IF DCP INSTALLED NEAR CONTROLLED DOOR.
- COORDINATE WITH ACCESSIBILITY DOOR ACTUATOR PROVIDER.
- PROVIDE AS AN INTEGRAL PART OF DOOR CHIME / ANNUNCIATOR UNIT.
- INSTALL ABOVE ACCESSIBLE CEILING IN SECURED SPACE. INSTALL >96" AFF IN SECURE SPACE WITHOUT FINISHED CEILINGS. RELOCATE TO AREA WITH ACCESS IF SHOWN ON DRAWINGS IN AREA WITH NON-ACCESSIBLE CEILINGS. COORDINATE WITH ARCHITECTURE AND OTHER TRADES.
- REFERENCE SPECIFICATION SECTION 28 2300 - VISUAL SURVEILLANCE SYSTEM (VSS) FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFERENCE SPECIFICATION SECTION 27 5123 - INTERCOMMUNICATIONS AND PROGRAM SYSTEM (AREA OF REFUGE / RESCUE) FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- CARD READERS TO BE PROVISIONED TO BE "DUAL CREDENTIAL" FOR THIS FACILITY. READERS TO OPERATE WITH STANDARD HID PROXIMITY CARDS AND WITH NFC FROM PERSONAL ELECTRONICS (CELLULAR PHONES).

TECHNOLOGY SYSTEMS RACEWAYS			
SYMBOL(S)	DESCRIPTION	MTG HEIGHT	NOTES
A	CIRCUITING RACEWAYS HOME RUN (AV CIRCUITS) (LETTER TAG INDICATES DESTINATION - IDP/MDP INDICATES NEAREST TELECOM ROOM)		R1
A	CIRCUITING RACEWAYS INSTALLED CONCEALED (WITHIN WALLS, ABOVE CEILINGS - EXPOSED IN PARKING GARAGES ACCEPTABLE)		R2
A	CIRCUITING RACEWAY INSTALLED BELOW FLOORING		R3
○	IN-SLAB RACEWAY SYSTEM	FLOOR	R5

- LETTER SUBSCRIPT AT ARROWHEAD INDICATES WHICH EQUIPMENT RACK CIRCUITING/CONDUIT HOME RUN TERMINATES INTO. SINGLE LETTER USED FOR AV CIRCUITING, MDP/IDP/RCC INDICATES ROUTE RACEWAY AND CABLING TO NEAREST TELECOM TERMINATIONS ROOM.
- CIRCUITING RACEWAYS INSTALLED CONCEALED WITHIN WALLS, ABOVE FINISHED CEILINGS. ALSO DESIGNATES RACEWAYS INSTALLED EXPOSED THROUGH PARKING GARAGES, MECHANICAL AND ELECTRICAL SPACES.
- CIRCUITING RACEWAYS INSTALLED BELOW FLOORING, WITHIN SLABS, DIRECT BURIAL.
- 4" C SLEEVE PENETRATION THROUGH SLAB. PRIMARILY USED IN RISER APPLICATIONS. EXTEND SLEEVE MINIMUM 3" ABOVE/BELOW SLAB SURFACE. SLEEVES FLUSH WITH SLAB NOT ACCEPTABLE.
- IN-FLOOR RACEWAYS SYSTEM WITH DIVIDERS FOR BRANCH CIRCUIT POWER AND TECHNOLOGY SYSTEMS (LOW VOLTAGE) CABLING. DELIVER ANY MANUFACTURER SPECIFIC BACKBOXES AND/OR MOUNTING HARDWARE TO RACEWAY INSTALLER FOR ROUGH-IN INSTALLATION ALONG WITH CONDUITS.
- JUNCTION BOX ROUGH-IN FOR ADD ALTERNATE/FUTURE INSTALLED DEVICES. PROVIDE WITH 3/4" TO ACCESSIBLE SPACE, UDN.
- CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS VIA J-HOOKS. SLEEVES MUST BE PROVIDED FOR CABLING TRANSITIONING ACROSS INACCESSIBLE CEILING AREAS.

AUDIO / VISUAL			
SYMBOL	DESCRIPTION - SPEAKER TYPES	MTG HEIGHT	NOTES
○	CEILING MOUNTED LOUDSPEAKER (FLUSH MOUNT)	CEILING	A1, A5
○	HIGH-PERFORMANCE CEILING MOUNTED LOUDSPEAKER	CEILING	A1, A5
H	WALL MOUNTED LOUDSPEAKER (SURFACE, NON-FLUSH)	REF DWG's	A1, A5
H	BOX TYPE LOUDSPEAKER & MTG HARDWARE (SURFACE)	REF DWG's	A1
○	SPEAKER ZONE VOLUME CONTROL	+48" AFF	A1
○	MEETINGS [0011] 70 DISTRIBUTED SPEAKER (ROOM/SPACE DESIGNATION) (SPEC SECTION DESIGNATION) (TRANSFORMER TAP DESIGNATION)		A4
SYMBOL	DESCRIPTION - JACKS & CONNECTORS	MTG HEIGHT	NOTES
○	MICROPHONE INPUT JACK, WALL MOUNT	+18" AFF	A2, A3
○	MICROPHONE INPUT JACK, FLOOR MOUNT	FLOOR	A1, A5
○	CEILING MOUNT MICROPHONE	CEILING	A1, A5
○	LINE LEVEL AUDIO INPUT	A2, A3	
○	LINE LEVEL AUDIO OUTPUT	A2, A3	
○	HDMI VIDEO INPUT	A1, A3	
○	USB INPUT (EXTENDED OUTLET FROM INDICATED DEVICE)	A1, A3	
SYMBOL	DESCRIPTION - RACKS / ENCLOSURES	MTG HEIGHT	NOTES
A	EIA 19" EQUIPMENT RACK "A" = AUDIO, "T" = CATV, "S" = SECURITY/DVRs, "V" = VOICE/PBX, "D" = DATASERVERS (Letter Designates Location)		T4

- REFER TO FLOOR PLANS, DETAILS, ONE-LINE DRAWINGS, AND SPECIFICATIONS FOR LOCATIONS, QUANTITIES, SIZES AND TYPES.
- NUMBERS LISTED ADJACENT SYMBOL (N) DENOTES QUANTITY OF OUTLETS REQUIRED. BLANK NO NUMBER = QUANTITY OF 1.
- DEVICE MAY BE PART OF AN AV - IO FUNCTION SPACE WALL PLATE BUT MAY EXIST INDIVIDUALLY WITHIN SMALL MEETING / BOARDROOMS. REFERENCE AV - IO PLATE CONSTRUCTION DETAILS FOR ADDITIONAL REQUIREMENTS.
- VERIFY PROPER WORKING VOLTAGES AND FREQUENCY BEFORE CONNECTING EQUIPMENT TO BRANCH CIRCUIT POWER.
- DELIVER ANY MANUFACTURER SPECIFIC BACKBOXES AND / OR MOUNTING HARDWARE TO RACEWAY INSTALLER FOR ROUGH-IN INSTALLATION ALONG WITH CONDUITS.


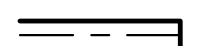

SYMBOL	AV-IO PLATES - FIELD DEVICES	MTG HEIGHT	NOTES
AV1	▽ ▽ [RSE] [VEMU]	24"	N1, N2, N3
AV2	▽ ▽ [RSE] [VEMU]	FLOOR	N1, N2, N3
MM	▽ ▽ [H] + GROMMETED OPENING FOR CABLING	+60" UDN	

- REFER TO FLOOR PLANS, DETAILS, ONE - LINE DRAWINGS, AND SPECIFICATIONS FOR LOCATIONS, QUANTITIES, SIZES, CONSTRUCTION, AND TYPES.
- NUMBERS LISTED ADJACENT SYMBOL (N) DENOTES QUANTITY OF OUTLETS REQUIRED. BLANK / NO NUMBER = QUANTITY OF 1.
- DEVICE TYPICALLY PART OF AN AV - IO FUNCTION SPACE WALL PLATE BUT CAN EXIST INDIVIDUALLY WITHIN SMALL MEETING / BOARDROOMS. REFERENCE AV - IO PLATE CONSTRUCTION DETAILS FOR ADDITIONAL REQUIREMENTS.
- VERIFY PROPER WORKING VOLTAGES AND FREQUENCY BEFORE CONNECTING EQUIPMENT TO BRANCH CIRCUIT POWER.
- DELIVER ANY MANUFACTURER SPECIFIC BACKBOXES AND / OR MOUNTING HARDWARE TO RACEWAY INSTALLER FOR ROUGH - IN INSTALLATION ALONG WITH CONDUITS.

ABBREVIATIONS			
ABBREVIATIONS LISTED BELOW ARE FOR REFERENCE IN THE USE IN UNDERSTANDING DESIGN INTENT.			
1G, 2G, 3G	MIDRING SIZE (i.e.: 1-GANG, 2-GANG, etc)	MT	MOUNT
A	AMPERE	MTG	MOUNTING
ABV	ABOVE	MUX	MULTIPLEXOR
AC	ALTERNATING CURRENT	N	NEUTRAL
AFF or (+)	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED (CONTACT)
AG	ABOVE GRADE	NEC	NATIONAL ELECTRICAL CODE
AHJ	AUTHORITY HAVING JURISDICTION	NOT IN CONTRACT	
AL	ALUMINUM	NID	NETWORK INTERFACE DEVICE (OPTICAL FIBER TX/RX)
AV-IO	AUDIO/VIDEO INPUT/OUTPUT	NO	NORMALLY OPEN (CONTACT)
	PLATES	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
BFC	BELOW FINISHED CEILING	ONT	OPTICAL NETWORK TRANSCEIVER (OPTICAL FIBER TX/RX)
BLDG	BUILDING	OSE	OWNER/OPERATOR SUPPLIED
BMS	BUILDING MANAGEMENT SYSTEM	PC	PERSONAL COMPUTER
°C	DEGREES CENTIGRADE	PIR	PASSIVE INFRARED (MOTION DETECTION TYPE)
C	CONDUIT	PNL	PANEL BOARD OR PANEL
CATV	COMMUNITY ACCESS TELEVISION	POS	POINT OF SALE
CCTV	CLOSED CIRCUIT TELEVISION	PR	PAIR
CL	CENTERLINE	PRT	PRINTER
CKT	CIRCUIT	PS	POWER SUPPLY
CLG	CEILING	PTZ	PAN/TILT/ZOOM (CCTV)
CU	COPPER	PVC	POLYVINYL CHLORIDE
CPU	CENTRAL PROCESSING UNIT	RELAY	RELAY
CPS	CYCLES PER SECOND	RC	REMOTE CONTROL
CR	CATHODE RAY TUBE	RCC	RESIDENTIAL CONSOLIDATION CABINET
CTR	COUNTER	REC	RECESSED
DA	DISTRIBUTION AMPLIFIER	RECEPT	RECEPTACLE
dB	DECIBEL	REF	REFERENCE
DC	DIRECT CURRENT	RF	RADIO FREQUENCY
DCP	DOOR CONTROL PANEL	RMC	RIGID METAL CONDUIT
DED	DEDICATED (CIRCUIT)	RM	ROOM
DEMARC	UTILITY DEMARCATION POINT	RNC	RIGID NONMETALLIC CONDUIT
DIM	DIMMER	RP	REMOTE PRINTER
DVR	DIGITAL VIDEO RECORDER	SATV	SATELLITE ANTENNA SYSTEM (TELEVISION)
DWG	DRAWING	SHI	INDIVIDUALLY SHIELDED (PAIR) ASSOCIATION
E or EM	EMERGENCY	SHO	OVERALL SHIELD
EA	EACH	SOFT	SQUARE FOOT
EC	EMPTY CONDUIT	STD	STANDARD
EIA	ELECTRONICS INDUSTRIES ASSOCIATION	SUSP CLG	SUSPENDED CEILING
ELEC	ELECTRICAL	SW	SWITCH
ELEV	ELEVATOR	TBA	TO BE ARRANGED (SEE T80)
EMT	ELECTRICAL METALLIC TUBING	TBB	TELEPHONE BACKBOARD
ENT	ELECTRICAL NONMETALLIC TUBING	TBD	TO BE DETERMINED (SEE T8A)
EX	EXISTING	TEL OR TELE	TELEPHONE
F	DEGREES FAHRENHEIT	T OR TEMP	TEMPERATURE
FACP	FIRE ALARM CONTROL PANEL	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
FF&E	FURNITURE, FIXTURES, & EQUIPMENT (SEE OSE)	TRS	TIP-RING-SLEEVE (BALANCED)
G or GND	GROUND	TV	TELEVISION
GF or GFI	GROUND FAULT PROTECTION	TVL	TV LINES (CCTV RESOLUTION)
H or HT	HEIGHT	TYP	TYPICAL
Hz	HERTZ (CPS)	UG	UNDERGROUND
HZ	HERTZ	UL	UNDERWRITERS LABORATORY
IDF	INTERMEDIATE DISTRIBUTION FRAME (IT CLOSET)	UNSH	UNSHIELDED
IDP	INTRUSION DETECTION PANEL	U.O.N	UNLESS OTHERWISE NOTED
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	UV	UNDERWATER
ISO	ISOLATED	V	VOLTS



**CABLE PATH LINE-TYPE LEGEND:**

-  CONDUIT - BELOW GRADE / CAST-IN-SLAB
-  CONDUIT - OVER HEAD / ABOVE GRADE
-  CABLE BASKET / CABLE TRAY  
INSTALL @ 7' - 6" AFF UON

**L J & P**  
**Leppard Johnson & Associates, PC**  
 100 CRESCENT CENTRE PARKWAY, SUITE 520  
 TUCKER, GEORGIA 30084 170270-1588  
 C. PROJECT NO: 21042 FAX (770)270-9588

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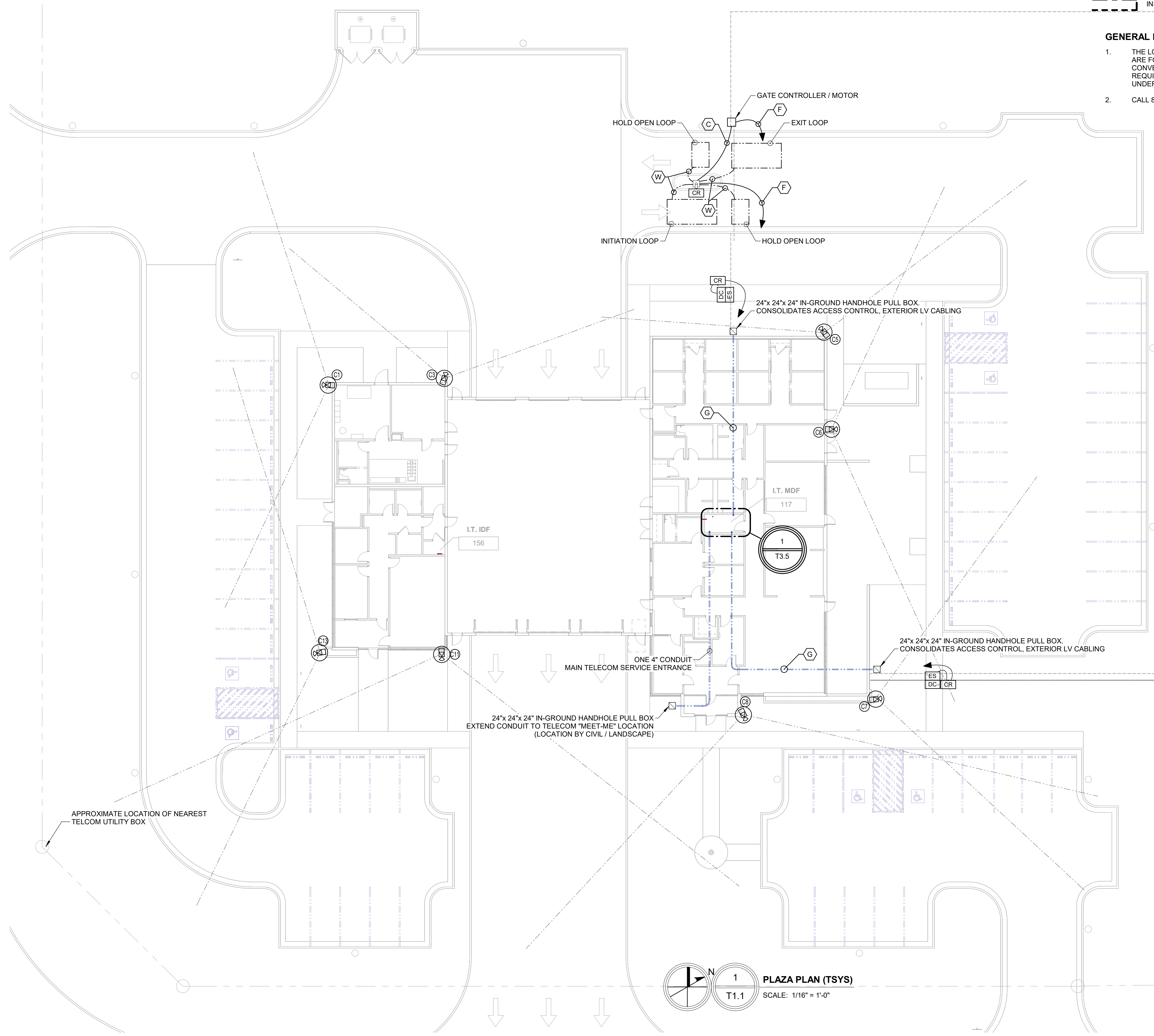
**GENERAL NOTES (SITE):**

1. THE LOCATIONS AND ROUTING SHOWN FOR BELOW GRADE LOW VOLTAGE CONDUITS ARE FOR COMMUNICATING PROJECT NEEDS, DESIGN INTENT, AND DRAWING CONVENIENCE ONLY. COORDINATE LOW VOLTAGE UNDERGROUND CONDUIT REQUIREMENTS WITH CIVIL, ELECTRICAL, PLUMBING, AND OTHER TRADES WITH UNDERGROUND WORK.
2. CALL 811 BEFORE UNDERTAKING ANY EXCAVATION / UNDERGROUND SITE WORK.

**RACEWAY KEYNOTES (NEMA):**

(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)

- A 16mm (1/2") RACEWAY
- B 21mm (3/4") RACEWAY
- C 27mm (1") RACEWAY
- D 35mm (1-1/4") RACEWAY
- E 41mm (1-1/2") RACEWAY
- F 53mm (2") RACEWAY
- G 78mm (3") RACEWAY
- H 103mm (4") RACEWAY
- W CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- X DEFINED BY DIVISION 26 - ELECTRICAL
- Y CABLEING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLEING)



**1 PLAZA PLAN (TSYS)**  
 SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION

**NOT FOR CONSTRUCTION**

**PRECISION**  
 Planning Inc.  
 planners • engineers • architects • surveyors  
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**Gillem Public Safety Building**  
 2090 Anvil Block Road  
 Forest Park, GA 30294

PLAZA PLAN (TSYS)		CHECKED	TP
DESIGN	GS	DRAWN	LJA

DATE	NO. DESCRIPTION	RELEASED FOR BID
10/26/2021	1	

07/08/2021	DATE	A21-006	PROJ. NUMBER	FILE NAME	FILE NUMBER

**T1.1**

**KEYNOTES (sheet notes):**

- (K1) WORKSTATION OUTLET PLATE: TWO (2) CAT-6 DATA OUTLETS.
- (K2) COPIER OUTLET PLATE: ONE (1) CAT-6 DATA / ONE (1) ANALOG POTS OUTLET.
- (K3) PHONE OUTLET PLATE: ONE (1) CAT-6 DATA - VoIP.
- (K4) PHONE OUTLET PLATE: ONE (1) CAT-6 ANALOG / AUTO-DIAL FIRE "RED PHONE".
- (K5) FACP: PROVIDE TWO (2) ANALOG POTS LINES / CAT-6 UTP.
- (K6) MASTER INTERCOM: REFERENCE SHEET T2.2 FOR ADDITIONAL REQUIREMENTS.
- (K7) VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE: PROVIDE AND INSTALL TV CONNECTIVITY WITHIN A RECESSED WALL ELECTRONICS ENCLOSURE REFERENCE DETAIL #6 / T5.2.

**CABLE PATH LINE-TYPE LEGEND:**

- CONDUIT - BELOW GRADE / CAST-IN-SLAB
- CONDUIT - OVER HEAD / ABOVE GRADE
- CABLE BASKET / CABLE TRAY  
INSTALL @ 7' - 6" AFF UON

**RACEWAY KEYNOTES (NEMA):**

(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)

- (A) 16mm (1/2") RACEWAY
- (B) 21mm (3/4") RACEWAY
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- (E) 41mm (1-1/2") RACEWAY
- (F) 53mm (2") RACEWAY
- (G) 78mm (3") RACEWAY
- (H) 103mm (4") RACEWAY
- (W) CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- (X) DEFINED BY DIVISION 26 - ELECTRICAL
- (Y) CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)

**GENERAL NOTES:**

1. VOICE / DATA CABLING:
  - a. INSTALL VOICE / DATA CABLING TO NEAREST MDF / IDF CLOSET FOR TERMINATION. TERMINATE DATA CABLING TO CAT-6 RATED RJ-45 PATCH JACKS IN PATCH PANELS. TERMINATE VOICE / ANALOG CABLING TO 110-STYLE PUNCH-DOWN BLOCKS ON VOICE WALLFIELD. COORDINATE TERMINATIONS WITHIN SPACE WITH THE PUBLIC UTILITY AND OTHER TRADES.
  - b. DIFFERENTIATE EACH HORIZONTAL UTP CABLE BY SYSTEM / USE / SIGNAL TYPE BY PROVIDING EACH WITH A UNIQUE CABLE JACKET COLOR. PROVIDE RJ-45 TERMINATION JACKS WITH A MATCHING COLOR BODY / ICON. EXAMPLES OF USE:
    - VOICE / ANALOG = YELLOW JACKETED CABLING
    - DATA / WIRELESS ACCESS POINTS = GREEN JACKETED CABLING
    - SECURITY / SURVEILLANCE = BLUE JACKETED CABLING
    - AUDIO / VISUAL = WHITE JACKETED CABLING
    - FIRE PROTECTION / LIFE SAFETY = RED JACKETED CABLING
  - c. INSTALL VOICE / DATA OUTLETS REFLECTED AS TBD (LOCATION TO-BE-DETERMINED) WITH SUFFICIENT CABLE LOOP TO RELOCATE OUTLET PLATE WITHIN ROOM / SPACE. COORDINATE FINAL INSTALLATION OF OUTLET(S) WITH EQUIPMENT BEING SERVED.
  - d. INSTALL ONE (1) FOUR-PAIR (MINIMUM) ANALOG VOICE CABLE TO FIRE ALARM CONTROL PANEL.
2. AUDIO / VISUAL SYSTEM(S):
  - a. HOMERUN EACH AUDIO ZONE CABLING TO INDICATED AUDIO / VISUAL EQUIPMENT RACK.
  - b. PERFORM ALL WORK IN COMPLIANCE WITH SPECIFICATION SECTION 27-4100 (AUDIO / VIDEO SYSTEMS). REFERENCE CABLING DETAILS SHEET T6.x AND INSTALLATION DETAILS SHEETS T6.x & T6.x FOR ADDITIONAL REQUIREMENTS.
3. WI-FI SYSTEM:
  - a. INSTALL WIRELESS ACCESS POINT CAT-6 CABLING TO NEAREST IDF / MDF. TERMINATE CABLING ONTO A DEDICATED RJ-45 PATCH PANEL IN TERMINATIONS RACK.
  - b. LEAVE 10' SPARE CABLING COILED ABOVE ACCESSIBLE CEILINGS TO ALLOW FOR AP LOCATION ADJUSTMENTS. INSTALL CAT-6 CABLING INTO AP BACKBOX IN NON-ACCESSIBLE CEILINGS.
  - c. PROVIDE WEATHER RESISTANT (IP-55 OR BETTER) ENCLOSURES FOR EXTERIOR MOUNTED ACCESS POINTS. COORDINATE CABLING WITH PROVIDER OF ACTIVE NETWORK EQUIPMENT.

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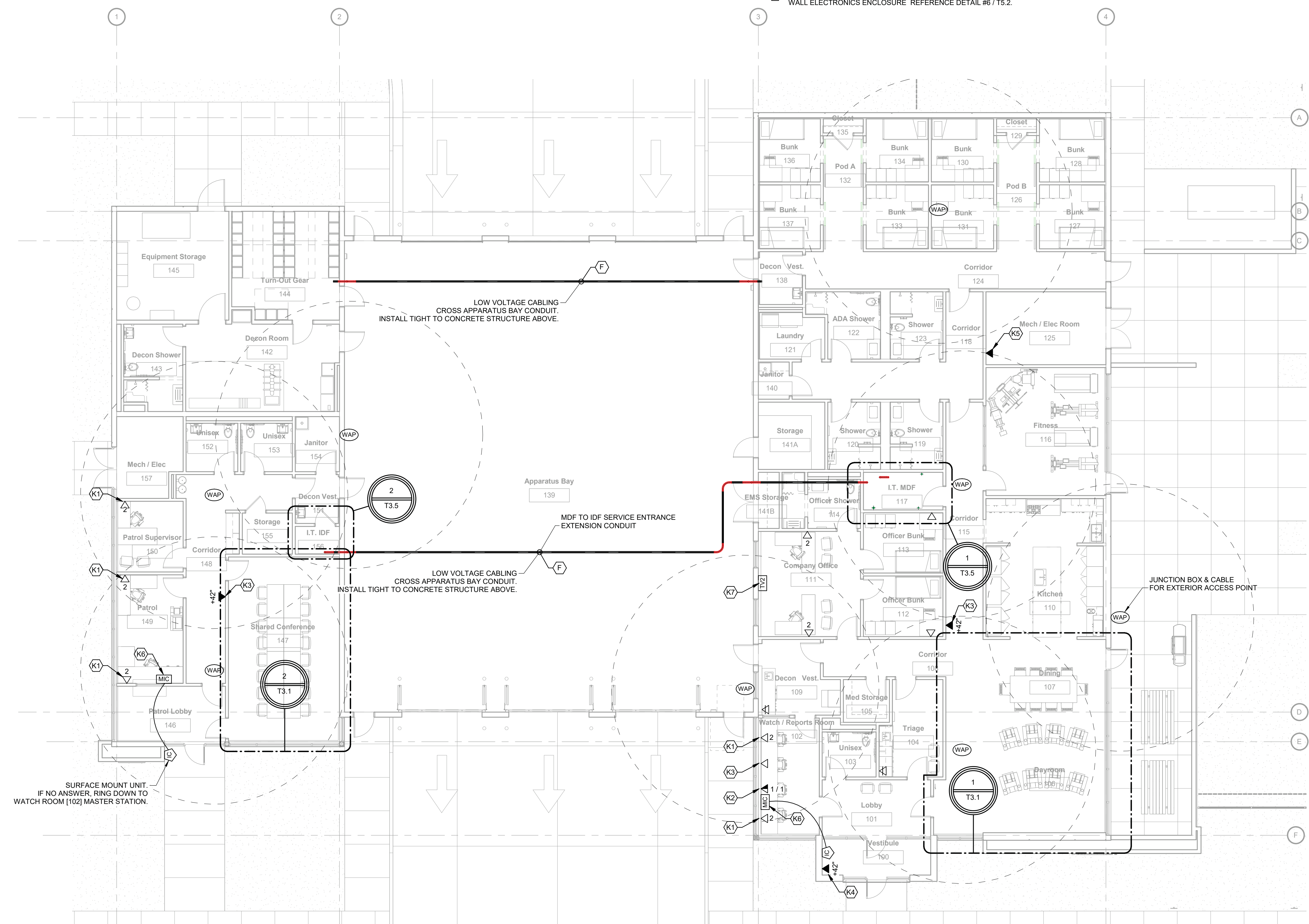
OVERALL CABLING & REFERENCE PLAN (TSYS)		SHEET TITLE	
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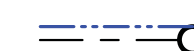
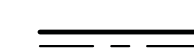



1 FIRST FLOOR CABLING & REFERENCE PLAN (TSYS)  
 T2.1 SCALE: 1/8" = 1'-0"

**GENERAL NOTES (TSYS / LOW VOLTAGE / SEC):**

1. INSTALL ALL CABLING CONTIGUOUS TO TERMINATION LOCTIONS. REFERENCE FLOOR PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. SECURITY SYSTEMS AS DEFINED AND SPECIFIED IN FLOOR PLAN DRAWINGS AND BY SECTION 27-0500, 28-1310, 28-1320, AND 28-2300 ARE A PART OF THE GENERAL CONTRACT. SUBMITTALS REQUIRED BY THE SECTIONS REFERENCED ABOVE MUST BE SUBMITTED FOR REVIEW BEFORE BEGINNING WORK.
3. CABLING MAY BE INSTALLED OUTSIDE RACEWAYS AS "FREE-RUN" AS ALLOWED BY THE NEC AND AHJ. PROVIDE FREE-RUN CABLES AS RISER / PLENUM RATED AS REQUIRED. ALL FREE-RUN CABLING MUST BE INSTALLED ABOVE ACCESSIBLE CEILINGS, WITHIN ACCESSIBLE WALL CAVITIES, OR OTHERWISE HIDDEN AND PROTECTED FROM PUBLIC VIEW. FREE-RUN CABLING SHALL NOT BE VISIBLE UNLESS INSTALLED GREATER THAN 120" AFF.
4. **LOW VOLTAGE CABLING OUTLET PLATES INSTALLED WITHIN RATED WALLS MUST BE INSTALLED USING FIRE PUTTY WRAPPED STEEL BOXES WITH EMT CONDUIT STUBBED INTO NON-RATED / ACCESSIBLE SPACE.**
5. REFERENCE ONE-LINE DIAGRAMS, SPECIFICATIONS, AND LOW VOLTAGE SYSTEM DETAILS (ALL T5.x / T6.x SERIES SHEETS) FOR ADDITIONAL CABLING REQUIREMENTS.
6. CABLING / RACEWAYS SHOWN TRANSITIONING THROUGH BEAMS, COLUMNS AND / OR CHASES ARE FOR DRAWING CONVENIENCE ONLY. COORDINATE INSTALLATION OF CABLING / RACEWAYS CLEAR OF ALL BEAMS, COLUMNS, CHASES, DUCTWORK AND / OR OTHER OBSTRUCTIONS. COORDINATE INSTALLATION WITH OTHER TRADES.
7. LOW VOLTAGE SYSTEMS INSTALLER(S) ARE TO COORDINATE WITH THE OWNER OF THIS FACILITY ALL USER INTERFACE SYSTEM PROGRAMMING OPTIONS, FINAL DEVICE LOCATIONS REQUIRING REGULAR USER ACCESS, AND ALARM REPORTING AND NOTIFICATION. INSTALLERS TO PROVIDE OWNER TRAINING PER SPECIFICATION SECTIONS REFERENCED ABOVE.
8. COORDINATE WITH OWNER ON THE LOCATION OF AUDIBLE / VISIBLE ANNUNCIATION DEVICES.

**CABLE PATH LINE-TYPE LEGEND:**

-  CONDUIT - BELOW GRADE / CAST-IN-SLAB
-  CONDUIT - OVER HEAD / ABOVE GRADE
-  CABLE BASKET / CABLE TRAY  
INSTALL @ 7' - 6" AFF UON

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**RACEWAY KEYNOTES (NEMA):**

(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)

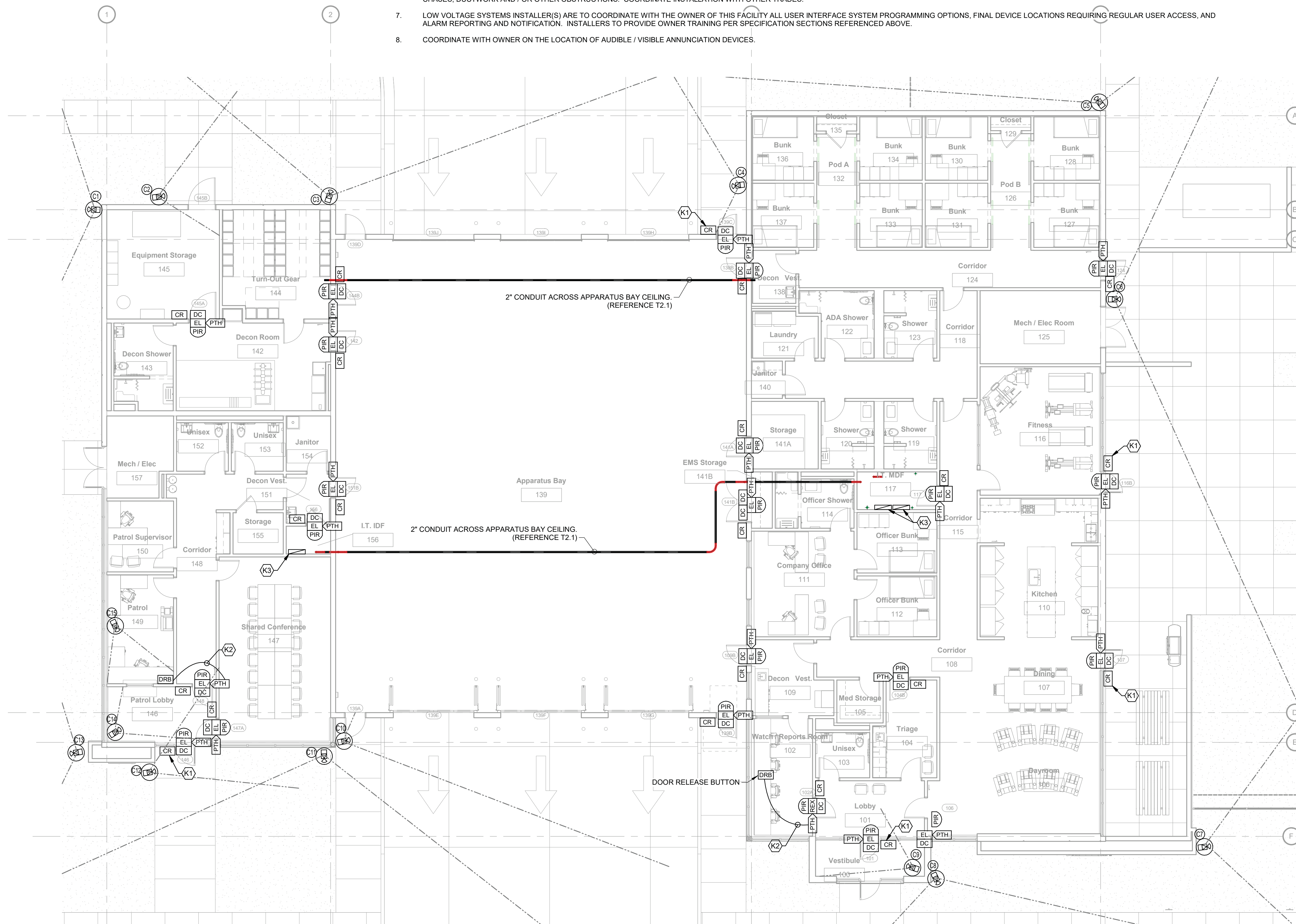
- A 16mm (1/2") RACEWAY
- B 21mm (3/4") RACEWAY
- C 27mm (1") RACEWAY
- D 35mm (1-1/4") RACEWAY
- E 41mm (1-1/2") RACEWAY
- F 53mm (2") RACEWAY
- G 78mm (3") RACEWAY
- H 103mm (4") RACEWAY
- W CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- X DEFINED BY DIVISION 26 - ELECTRICAL
- Y CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)

**FLOOR PLAN NOTES - ACCESS CONTROL:**

1. THE T-SERIES DRAWINGS ARE INTENDED TO PROVIDE INFORMATION ON CABLING, SUGGESTED PANEL LOCATIONS, AND AUXILIARY DEVICES TO BE INSTALLED BY THE ELECTRONIC DOOR LOCKING SYSTEM INSTALLER. ARCHITECTURAL DOOR SCHEDULES AND HARDWARE SPECIFICATIONS TAKE PRECEDENCE OVER DOOR HARDWARE INFORMATION REFLECTED IN THE T-SERIES DRAWINGS. NOTIFY ARCHITECT AND ENGINEER IN WRITING IF DISCREPANCIES ARE FOUND.
2. REFERENCE SPECIFICATION SECTION 08-7100 (DOOR HARDWARE) FOR SEQUENCES OF OPERATION FOR ALL DOORS.
3. PROVIDE SYSTEM HEAD-END ELECTRONICS, DOOR CONTROL PANELS, RACEWAYS, AND CABLING BETWEEN DOOR CONTROL PANELS AND SYSTEM HEAD-END LOCATED IN THE MDF ROOM.
4. PERFORM ALL ACCESS CONTROL / ELECTRONIC DOOR LOCKING WORK IN COMPLIANCE WITH SPECIFICATION SECTION 28-1310 (ACCESS CONTROL / DURESS / DOOR MONITORING) AND FLOOR PLAN DRAWINGS.
5. INSTALL A FIRE ALARM CONTACT CLOSURE INTERFACE AT DOOR PANEL LOCATIONS FOR CODE REQUIRED DOOR RELEASE UNDER ALARM CONDITIONS. REFERENCE DOOR HARDWARE SPEC FOR SEQUENCE OF OPERATIONS

**KEYNOTES (sheet notes):**

- K1 CARD READER: MULLION MOUNT READER.
- K2 DOOR RELEASE BUTTON: PROVIDES DOOR RELEASE THIS DOOR.
- K3 ACCESS CONTROL PANELS: ACCESS CONTROL / DOOR CONTROL PANEL LOCATION. HOMERUN DOOR CONTROL CABLES TO NEAREST PANEL.

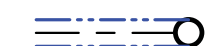



**1**  
**FIRST FLOOR SECURITY PLAN (TSYS)**  
 SCALE: 1/8" = 1'-0"

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<p>DATE: 10/26/2021</p> <p>NO. DESCRIPTION: RELEASED FOR BID</p>	<p>DESIGN: GS</p> <p>DRAWN: LJA</p> <p>CHECKED: TP</p>	<p>DATE: 07/08/2021</p> <p>DATE: 10/26/2021</p> <p>PROJ. NUMBER: A21-006</p> <p>FILE NAME:</p> <p>FILE NUMBER:</p>	<p><b>T2.2</b></p>

**CABLE PATH LINE-TYPE LEGEND:**

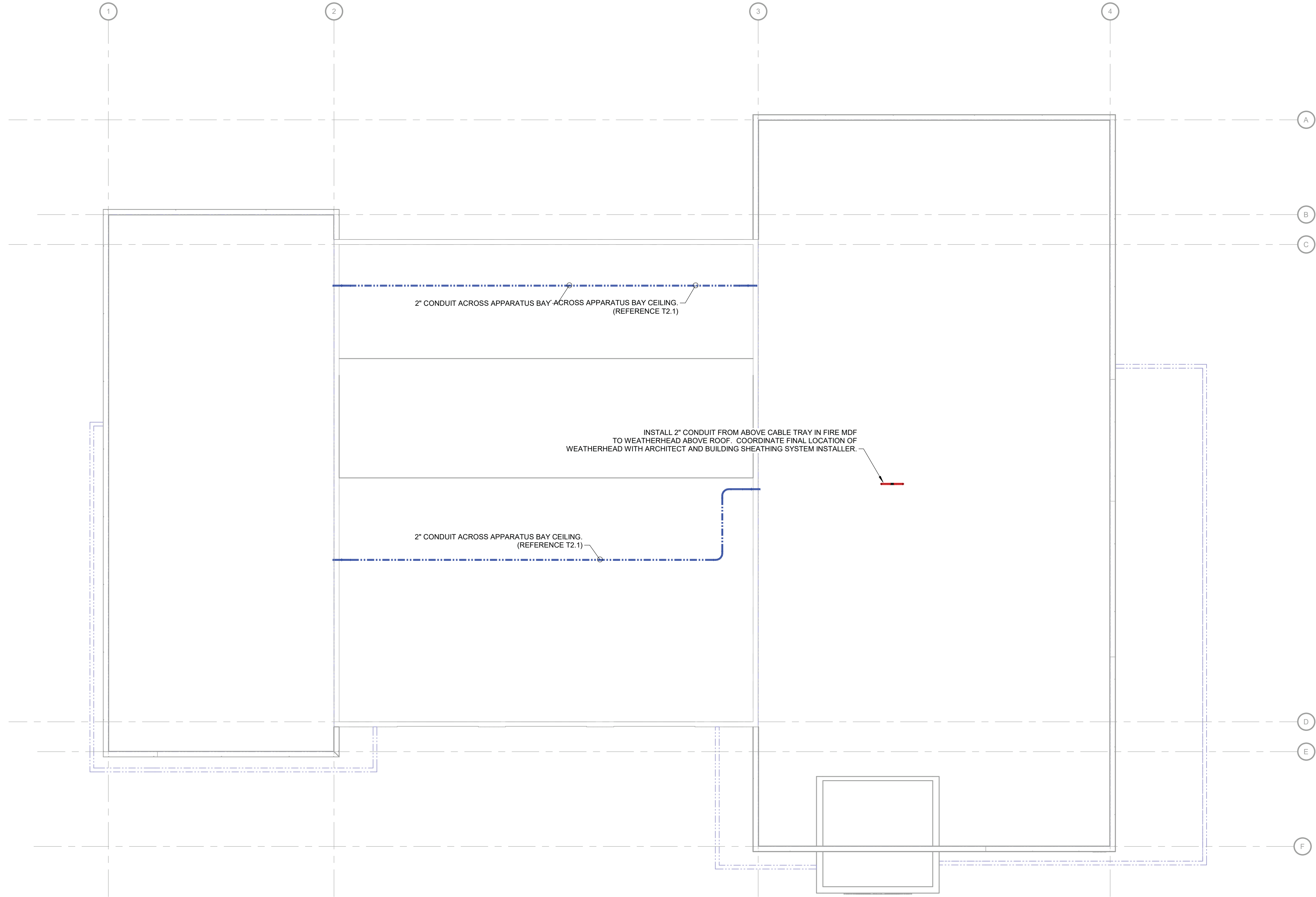
-  CONDUIT - ACROSS APPARATUS BAY CEILING
-  CONDUIT - THROUGH ROOFING MEMBRANE

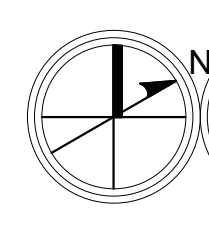
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**RACEWAY KEYNOTES (NEMA):**

(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)

- (A) 16mm (1/2") RACEWAY
- (B) 21mm (3/4") RACEWAY
- (C) 27mm (1") RACEWAY
- (D) 35mm (1-1/4") RACEWAY
- (E) 41mm (1-1/2") RACEWAY
- (F) 53mm (2") RACEWAY
- (G) 78mm (3") RACEWAY
- (H) 103mm (4") RACEWAY
- (W) CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- (X) DEFINED BY DIVISION 26 - ELECTRICAL
- (Y) CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)



 **1**  
**ROOF PLAN (TSYS)**  
 T2.3 SCALE: 1/8" = 1'-0"

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OVERALL ROOF PLAN (TSYS)			
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GS	LJA		

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07/08/2021	DATE
A21-006	PROJ. NUMBER
	FILE NAME
	FILE NUMBER

**T2.3**

**STAMP**

**PROJECT**

**RELEASE**

**SHEET TITLE**

**RELEASE**

**RELEASE**

**RELEASE**

**GENERAL NOTES (TSYS / LOW VOLTAGE / AV):**

- INSTALL ALL CABLING CONTIGUOUS TO TERMINATION LOCATIONS. REFERENCE FLOOR PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- AV SYSTEMS AS DEFINED AND SPECIFIED IN FLOOR PLAN DRAWINGS AND BY SECTION 27-0500 AND 27-4100 ARE A PART OF THE GENERAL CONTRACT. SUBMITTALS REQUIRED BY THE SECTIONS REFERENCED ABOVE MUST BE SUBMITTED FOR REVIEW BEFORE BEGINNING WORK.
- CABLING MAY BE INSTALLED OUTSIDE RACEWAYS AS "FREE-RUN" AS ALLOWED BY THE NEC AND AHJ. PROVIDE FREE-RUN CABLES AS RISER / PLENUM RATED AS REQUIRED. ALL FREE-RUN CABLING MUST BE INSTALLED ABOVE ACCESSIBLE CEILINGS, WITHIN ACCESSIBLE WALL CAVITIES, OR OTHERWISE HIDDEN AND PROTECTED FROM PUBLIC VIEW. FREE-RUN CABLING SHALL NOT BE VISIBLE UNLESS INSTALLED GREATER THAN 120" AFF.
- LOW VOLTAGE CABLING OUTLET PLATES INSTALLED WITHIN RATED WALLS MUST BE INSTALLED USING FIRE PUTTY WRAPPED STEEL BOXES WITH EMT CONDUIT STUBBED INTO NON-RATED / ACCESSIBLE SPACE.
- REFERENCE RISER DIAGRAMS AND LOW VOLTAGE SYSTEM DETAILS (ALL T5.x / T6.x SERIES SHEETS) FOR ADDITIONAL CABLING REQUIREMENTS.
- CABLING / RACEWAYS SHOWN TRANSITIONING THROUGH BEAMS, COLUMNS AND / OR CHASES ARE FOR DRAWING CONVENIENCE ONLY. COORDINATE INSTALLATION OF CABLING / RACEWAYS CLEAR OF ALL BEAMS, COLUMNS, CHASES, DUCTWORK AND / OR OTHER OBSTRUCTIONS. COORDINATE INSTALLATION WITH OTHER TRADES.
- LOW VOLTAGE SYSTEMS INSTALLER(S) ARE TO BUDGET COORDINATION WITH THE OWNER OF THIS FACILITY ALL USER INTERFACE SYSTEM PROGRAMMING OPTIONS, AND / OR FINAL DEVICE LOCATIONS REQUIRING REGULAR USER ACCESS. INSTALLERS TO PROVIDE OWNER TRAINING PER SPECIFICATION SECTIONS REFERENCED ABOVE.

**AUDIO / VISUAL KEYNOTES:**

- (A1) VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE:** PROVIDE AND INSTALL DISPLAY / TV CONNECTIVITY IN A RECESSED WALL ELECTRONICS ENCLOSURE (TYPICAL OF FSR PWB-250). RECESSED WALL ENCLOSURE TO CONTAIN CONSUMER ELECTRONICS, COMPACT AUDIO AMPLIFIER, AND GATEWAY FOR WIRELESS PRESENTATION OF AUDIO / VISUAL MEDIA. COORDINATE INSTALLATION OF BRANCH CIRCUIT POWER WITH ELECTRICAL. COORDINATE HEIGHT CENTERED ON DISPLAY AND WITH INTERIOR DESIGN ELEVATIONS. REFERENCE DETAIL #1 / T5.3, ONE-LINE DIAGRAMS, CONSTRUCTION DETAILS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EACH ENCLOSURE REQUIRES 120V / 20A BRANCH CIRCUIT POWER.
- (A2) PRESENTATION GRADE DISPLAY:** PROVIDE AND INSTALL AN 80"(1) 4K ULTRA-HD COLLABORATION GRADE DISPLAY (TYPICAL OF SHARP PN-CD701 OR EQUIVALENT) WITH INTEGRATED 4K CAMERA AND MICROPHONE ARRAYS. INSTALL USING MANUFACTURER'S RECOMMENDED MOUNTING BRACKET. PROVIDE AUDIO SUPPORT THROUGH CEILING INSTALLED SPEAKERS (WHERE SHOWN ON FLOOR PLAN DRAWINGS). COORDINATE WITH VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE BEHIND DISPLAY (KEYNOTE A1). REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (A3) ENTERTAINMENT GRADE DISPLAY:** PROVIDE AND INSTALL A 70" SHARP ENTERTAINMENT GRADE DISPLAY (TYPICAL OF LC-70LE650U OR EQUIVALENT) WITH INTEGRAL SOUND BAR. INSTALL USING MANUFACTURER'S RECOMMENDED MOUNTING BRACKET. AUDIO SUPPORT THROUGH SPEAKERS INTEGRATED WITHIN THE DISPLAY OR SOUND BAR MOUNTED BELOW. COORDINATE WITH VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE BEHIND DISPLAY (KEYNOTE A1). REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (A4) AUDIO / VISUAL - INPUT / OUTPUT (AV-I/O) WALL PLATE (AV1):** PROVIDE AND INSTALL A CUSTOM FABRICATED, ANODIZED OR POWDER-COAT ALUMINUM, AV-I/O WALL PLATE WHICH CONTAINS THE FOLLOWING CONNECTIVITY:
  - TWO (2) CAT-6 RJ-45 DATA OUTLETS
  - ONE (1) 1/8" STEREO AUDIO INPUT (T-R-S)
  - ONE (1) VGA DB-15 VIDEO INPUT CONNECTOR
  - ONE (1) HDMI (1.4 MINIMUM) VIDEO INPUT CONNECTOR
 INSTALL PLATE ADJACENT BRANCH CIRCUIT POWER @ 18" AFF.
- (A5) POWER / DATA CONSOLIDATED FLOOR BOX:** PROVIDE AND INSTALL REQUIRED DATA AND POWER CONSOLIDATED INTO A FLUSH MOUNT FLOOR BOX. REFERENCE DETAIL #1 / T5.4 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. EACH ENCLOSURE REQUIRES 120V / 20A BRANCH CIRCUIT POWER.
- (A6) CEILING MOUNT VISUAL DISPLAY SUPPORT AND ELECTRONICS ENCLOSURE:** PROVIDE AND INSTALL DISPLAY / TV CONNECTIVITY IN A RECESSED CEILING ELECTRONICS ENCLOSURE (TYPICAL OF FSR CB-22P). RECESSED CEILING SUPPORT ENCLOSURE TO CONTAIN (TV2) PLATE CONNECTIVITY, AV ELECTRONICS, AND DISPLAY POWER REQUIRED. COORDINATE INSTALLATION OF BRANCH CIRCUIT POWER WITH ELECTRICAL. COORDINATE HEIGHT OF DISPLAY WITH INTERIOR DESIGN ELEVATIONS. REFERENCE ONE-LINE DIAGRAMS, CONSTRUCTION DETAILS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EACH ENCLOSURE REQUIRES 120V / 20A BRANCH CIRCUIT POWER INSTALLED WITHIN. REFERENCE DETAIL #2 / T5.4 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
- (A7) AUDIO / VISUAL - INPUT / OUTPUT (AV - I/O) FLOOR BOX (AV2):** PROVIDE AND INSTALL THE SAME CONNECTIVITY REQUIRED BY (AV1) PLATES ABOVE CONSOLIDATED INTO A FLUSH MOUNT AV-I/O FLOOR BOX. PROVIDE A 1-1/2" CONDUIT BETWEEN FLOOR BOX AND VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE BEHIND THE DISPLAY. REFERENCE DETAIL #3 / T5.3, ONE-LINE DIAGRAMS, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EACH ENCLOSURE REQUIRES 120V / 20A BRANCH CIRCUIT POWER.
- (A8) TELEVISION REINFORCEMENT SPEAKER ZONE:** PROVIDE HIGH PERFORMANCE 8" FLUSH MOUNT 70v SPEAKER ZONE IN SUPPORT OF TELEVISION / DISPLAY AUDIO. REFERENCE DETAILS ON SHEET T5.5 FOR ADDITIONAL REQUIREMENTS.
- (A9)** LOW VOLTAGE DEVICES INSTALLED IN RATED WALLS MUST BE IN PUTTY WRAPPED STEEL OR RATED BACKBOXES.

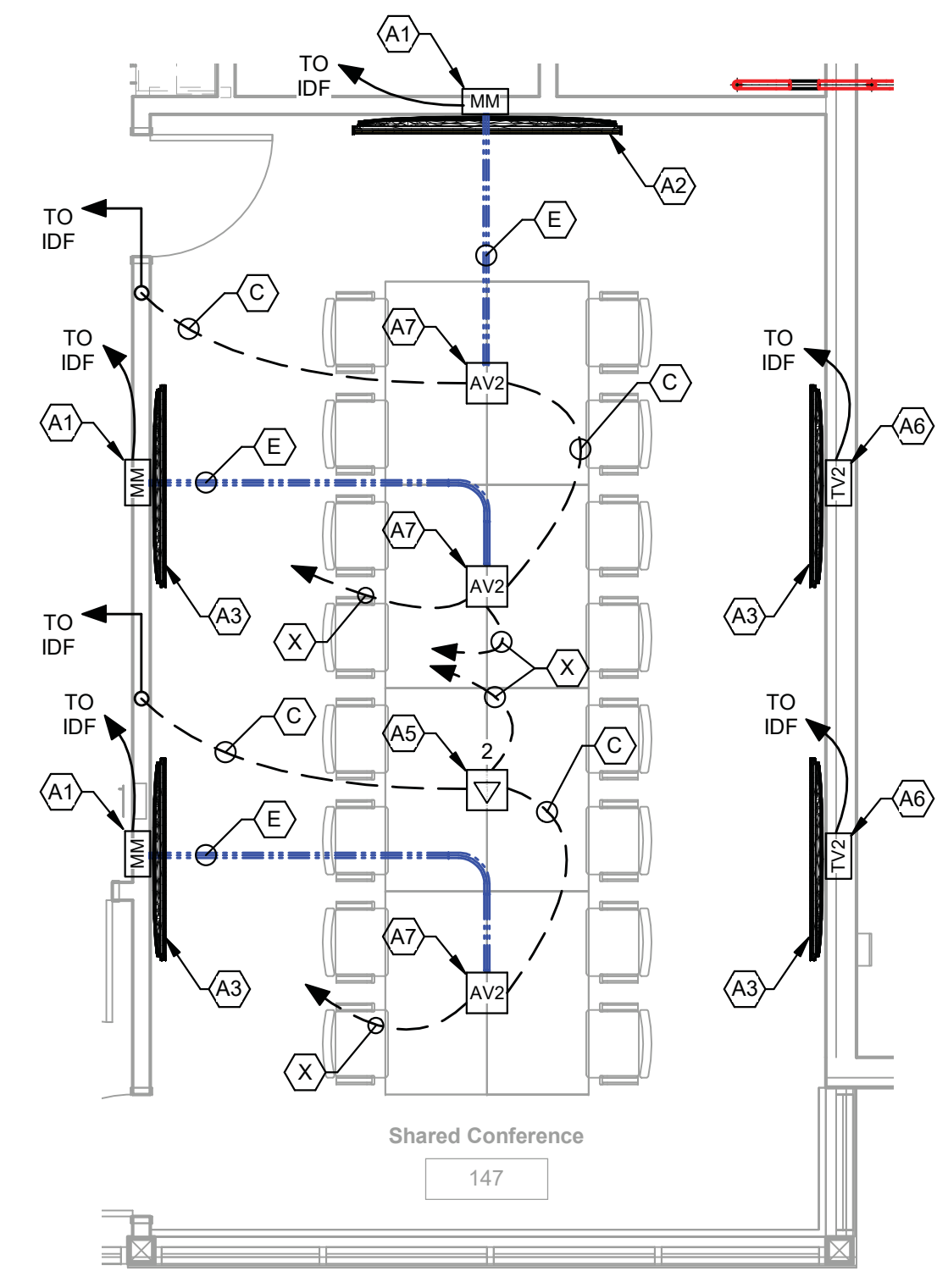
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**RACEWAY KEYNOTES (NEMA):**  
 (3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)

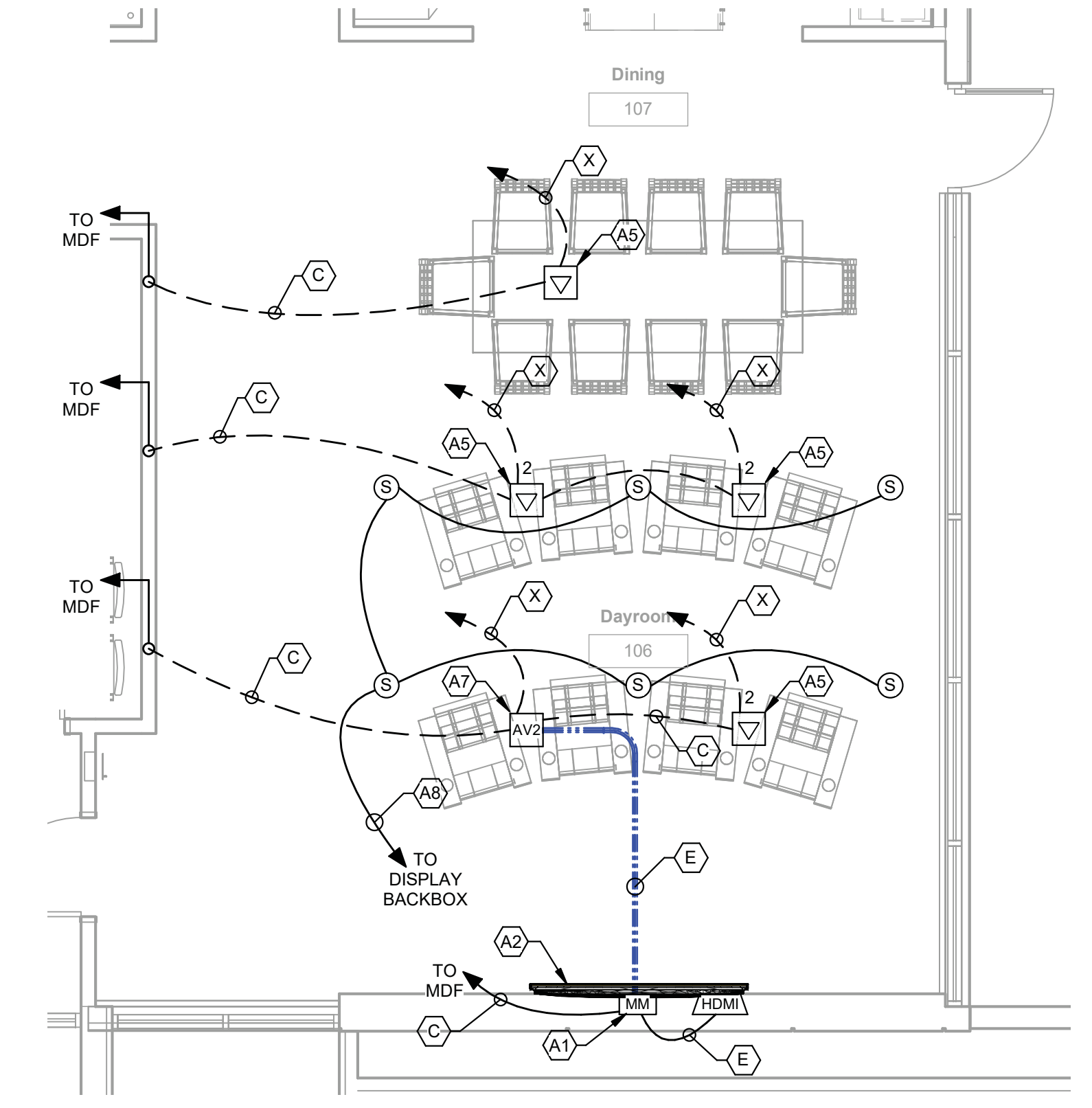
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- (W) CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- (X) DEFINED BY DIVISION 26 - ELECTRICAL
- (Y) CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)

**CABLE PATH LINE-TYPE LEGEND:**

- CONDUIT - BELOW GRADE / CAST-IN-SLAB
- CONDUIT - OVER HEAD / ABOVE GRADE
- CABLE BASKET / CABLE TRAY  
INSTALL @ 7' - 6" AFF UON



**2 ENLARGED SHARED CONFERENCE (147)**  
 T3.1 SCALE: 1/4" = 1'-0"



**1 ENLARGED DINING / DAYROOM (106 / 107)**  
 T3.1 SCALE: 1/4" = 1'-0"

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ENLARGED ROOM PLANS (TSYS)	DESIGN	GS	DRAWN	LJA	CHECKED	TP
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NO. DESCRIPTION	DATE	RELEASED FOR BID
1	10/26/2021	

07/08/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**T3.1**

**GENERAL NOTES (IT SPACES - MDF / IDF):**

- ENLARGED MDF / IDF / FC FLOOR PLANS SUGGEST TYPICAL EQUIPMENT LAYOUTS. QUANTITIES, SIZES, AND LOCATIONS OF EQUIPMENT MUST BE COORDINATED WITH THE OWNER AND OTHER TRADES INSTALLING EQUIPMENT OR UTILIZING THESE SPACES.
- PUBLIC UTILITIES, AUDIO / VISUAL, SECURITY, FIRE PROTECTION, TELEVISION SIGNAL DELIVERY, DAS, EMERGENCY RESPONDER RADIO COVERAGE (EERC) SYSTEMS, AND BUILDING AUTOMATION PROVIDERS MAY REQUIRE EQUIPMENT AND TERMINATION SPACE WITHIN THESE SPACES. COORDINATE INSTALLATION OF LOW VOLTAGE / TELECOM WORK WITH OTHER TRADES. COORDINATE UTILITY DEMARCATION TERMINATIONS WITH THE PUBLIC UTILITY PROVIDERS. REFER TO SPECIFICATIONS, RISER DIAGRAMS, ONE-LINE DIAGRAMS FLOOR PLAN DRAWINGS, AND CONSTRUCTION DOCUMENTS OF OTHER TRADES FOR ADDITIONAL REQUIREMENTS.
- REFERENCE PROJECT RISER DIAGRAMS FOR QUANTITIES OF RACEWAYS, SLEEVES, AND CABLING REQUIRED. PROVIDE ADDITIONAL SLEEVES AND FIRE CAULK WHERE REQUIRED.
- RACK ELEVATIONS DEVELOPED IN THE DRAWINGS ARE FOR PATCH PANEL MOUNTING AND CABLING TERMINATION SPACE PLANNING PURPOSES ONLY. PROVIDE SUFFICIENT SLACK ON TERMINATED CABLING TO ALLOW FOR UP TO 6 RACK UNITS OF PATCH PANEL RELOCATION. ACTIVE NETWORK COMPONENT SHOWN (SWITCHES, ROUTERS, SERVERS) ARE ANTICIPATED TO BE OWNER SUPPLIED EQUIPMENT. COORDINATE THE LOCATIONS OF PATCH PANELS WITH OWNER'S IT DEPARTMENT BEFORE BEGINNING ANY CABLE TERMINATIONS.
- MAINTAIN PROPER REQUIRED WORKING SPACES (36" MINIMUM) IN FRONT, BEHIND, AND TO THE SIDES OF ALL EQUIPMENT AND TERMINATIONS. SUBMIT FINAL IT TERMINATION SPACE LAYOUTS AND RACK ELEVATIONS SHOP DRAWINGS FOR APPROVAL PER SPECIFICATIONS.
- FIRESTOP ALL IT SPACE WALL PENETRATIONS PER WALL RATING AND LOCAL CODES.
- OFF-AIR HDTV BROADCAST, DAS, AND EERC SYSTEMS REQUIRE Tx / Rx ANTENNAS ON THE ROOF. COORDINATE WEATHERHEADS AND CONDUIT STUBS TO THE ROOF WITH THE GENERAL CONTRACTOR, THE ROOFING MEMBRANE INSTALLER, AND ALL OTHER TRADES INSTALLING EQUIPMENT ON THE STRUCTURES ROOF.
- ALL CATEGORY RATED UTP HORIZONTAL CABLING TO BE INSTALLED IN CONTINUOUS, UNSPLICED RUNS FROM FIELD DEVICES TO THE NEAREST IT TERMINATIONS SPACE. BRIDGING, "DAISY-CHAINING", OR PARALLEL CONNECTION OF CATEGORY UTP CABLING IS NOT ACCEPTABLE.
- INSTALL 4-PAIRS OF CAT-6 UTP CABLING BETWEEN EACH ELEVATOR MACHINE ROOM / CONTROL PANEL TO THE NEAREST IT TERMINATION SPACE IN SUPPORT OF ELEVATOR IN-CAB EMERGENCY COMMUNICATIONS. PROVIDE FULL CROSS-CONNECT OF ACTIVE PAIRS TO CO LINES FROM THE PUBLIC TELECOM PROVIDER. PROVIDE ATA ADAPTERS WHERE REQUIRED (VoIP ENVIRONMENTS). INCREASE PAIR COUNT WHERE REQUIRED TO PROVIDE ONE PAIR / CIRCUIT PER ELEVATOR SERVED.
- INSTALL 4-PAIRS OF CAT-6 UTP CABLING BETWEEN THE FIRE ALARM CONTROL PANEL (FACP) TO THE NEAREST IT TERMINATION SPACE.
- FULLY TERMINATE ALL CABLING CONDUCTORS, STRANDS, AND / OR PAIRS TO INDICATED TERMINATION BLOCKS / PANELS. LEAVE NO CONDUCTORS / STRANDS UNTERMINATED OR UNTESTED. PROVIDE CABLE MANAGEMENT AS REQUIRED FOR A NEAT AND WORKMAN LIKE INSTALLATION PER BEST INDUSTRY STANDARDS.
  - TERMINATE ALL ANALOG / VOICE UTP CABLING ONTO CAT-6 RATED RJ-45 JACKS IN RACK MOUNT PATCH PANELS. PROVIDE ANALOG COPPER TIE-LINES BETWEEN RACK MOUNT PATCH PANELS AND COPPER BACKBONE WALL FIELD. PROVIDE FULL CROSS-CONNECT OF ACTIVE COPPER ANALOG PAIRS TO BACKBONE COPPER CABLING PER OWNERS REQUIREMENTS.
  - TERMINATE ALL DATA HORIZONTAL UTP CABLING ONTO CAT-6 RATED RJ-45 JACKS IN RACK MOUNT PATCH PANELS. PROVIDE SUFFICIENT QUANTITY OF RATED PATCH CABLES TO ALLOW FOR FULL CROSS-CONNECT OF HORIZONTAL DATA CABLING TO ACTIVE DATA NETWORK ELECTRONICS (SWITCHES).
  - TERMINATE ALL OPTICAL FIBER STRANDS INTO RACK MOUNTED OPTICAL FIBER LIGHT GUIDES (LIU'S). COORDINATE STYLE OF CONNECTOR WITH OWNER'S IT DEPARTMENT.
  - PROVIDE CATEGORY UTP RATED CABLING (CAT-6) WITH UNIQUE JACKET COLORS TO PROVIDE VISIBLE DISTINCTION OF CABLING BY USE. (I.E.: VOICE = YELLOW JACKET CABLING, DATA = BLUE JACKET CABLING, CATV = GREEN JACKET CABLING, IPTV CAMERAS = WHITE JACKET CABLING). TERMINATE EACH CABLING TYPE INTO SEPARATE PATCH PANELS WITHIN THE NEAREST IT TERMINATION SPACE. PROVIDE COLOR CODED RJ-45 JACKS / ICONS TO MATCH CABLE JACKET COLOR AT EACH TERMINATION POINT.

**MDF / IDF KEYNOTES:**

- TMBG / TGB:** PROVIDE TECHNICAL GROUND BAR. REFERENCE DETAIL X / T5.xx FOR ADDITIONAL REQUIREMENTS.
- TELECOM BACKBOARDS:** FULLY LINE THIS SPACE WITH PLYWOOD BACKBOARDS AS SHOWN. REFERENCE SPEC SECTION 27-1100 FOR ADDITIONAL REQUIREMENTS. FIRE CAULK ALL PENETRATIONS THROUGH RATED WALLS PER CODE / AHJ REQUIREMENTS.
- TELECOM CABLE TRAYS:** SUSPEND CABLE TRAYS / LADDER SECURELY FROM STRUCTURE. REFERENCE FLOOR PLAN DRAWINGS FOR SIZING AND ROUTING INFORMATION. INSTALL PER SEISMIC CODES ADOPTED FOR THIS PROJECT. ATTACH POWER OUTLETS TO CABLE TRAY, IF CABLE TRAY IS SHOWN ABOVE. REFERENCE DETAIL X / T5.xx FOR ADDITIONAL REQUIREMENTS.
- HORIZONTAL CABLING TERMINATIONS / NETWORK SWITCH RACK (FLOOR STANDING):** OPEN FRAME TWO-POST MDF / IDF CABLING TERMINATIONS AND NETWORK SWITCH RACK w / VERTICAL WIRE MANAGERS. REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. COORDINATE INSTALLATION OF CABLING TERMINATIONS AND ACTIVE NETWORK ELECTRONICS WITH OWNERS IT DEPARTMENT.
- HORIZONTAL CABLING TERMINATIONS RACK (WALL MOUNT):** WALL MOUNT, SWING OPEN FRAM CABLING TERMINATIONS AND NETWORK SWITCH RACK. REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. COORDINATE INSTALLATION OF CABLING TERMINATIONS AND ACTIVE NETWORK ELECTRONICS WITH OWNERS IT DEPARTMENT.
- NETWORK BACKBONE / CORE RACK:** ENCLOSED FOUR-POST MDF EQUIPMENT RACK. TERMINATE ALL SITE DISTRIBUTION AND RISER OPTICAL FIBER CABLING INTO OPTICAL FIBER LIGHT GUIDES AT THE TOP OF THIS RACK. ALL OPTICAL FIBER TERMINATIONS ARE TO BE "xx-STYLE" CONNECTORS. COORDINATE LAYOUT OF FIBER TERMINATIONS WITH OWNERS IT DEPARTMENT. REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
- NETWORK SERVER / EQUIPMENT RACK:** ENCLOSED FOUR-POST MDF SERVER / SECURITY / MATV EQUIPMENT RACK. REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
- AV EQUIPMENT RACK:** AUDIO / VISUAL EQUIPMENT RACK. REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
- ANALOG / VOICE TERMINATIONS WALL FIELD:** TERMINATE ALL SITE DISTRIBUTION, RISER BACKBONE COPPER (ANALOG VOICE) CABLING ALONG THIS WALL. PUNCH DOWN ALL COPPER PAIRS TO 110-STYLE IDC PUNCHDOWN BLOCKS. PROVIDE FULL CROSS-CONNECT OF HORIZONTAL CABLING TO BACKBONE CABLING. COORDINATE CROSS-CONNECT WITH OWNERS IT DEPARTMENT.
- PUBLIC UTILITY WALL FIELD:** INSTALL PUBLIC UTILITY WALL FIELD EQUIPMENT AND TERMINATIONS ALONG THIS WALL. COORDINATE POWER REQUIREMENTS w / UTILITY PROVIDERS.
- HORIZONTAL CABLING SLEEVES (3"):** INSTALL 3" CABLING SLEEVES WITH CABLE MANAGEMENT RADIUS CONTROL WATERFALLS THROUGH WALLS / 3" SLEEVED BUSHINGS THROUGH CEILINGS, AS INDICATED. FIRE CAULK ALL PENETRATIONS THROUGH RATED WALLS / CEILINGS.
- OWNER / ADMIN WALL FIELD:** INSTALL OWNER / ADMINISTRATIVE WALL FIELD EQUIPMENT, TERMINATIONS, AND DOOR CONTROL PANEL ENCLOSURES ALONG THIS WALL.
- ACCESS CONTROL PANEL ENCLOSURES (DCP'S):** PRESERVE WALL FIELD AND RISER CONDUIT SPACE FOR THE INSTALLATION OF DOOR CONTROL PANEL ENCLOSURES ALONG THIS WALL. HOMERUN ALL ACCESS CONTROL DOOR LOCKING CABLING HERE. PROVIDE FIRE ALARM CONTACT CLOSURE INTERFACE FOR DOOR CONTROL PANELS. REFERENCE DOOR HARDWARE SPEC FOR SEQUENCE OF OPERATIONS.
- EERC WALL FIELD:** PRESERVE WALL FIELD AND RISER CONDUIT SPACE FOR EMERGENCY RESPONDER RADIO COVERAGE (EERC) AUGMENTATION SYSTEM IF REQUIRED BY THE MUNICIPAL AHJ. EERC SYSTEM TO BE POWERED OFF EMERGENCY POWER. COORDINATE OTHER REQUIREMENTS WITH THE AHJ AND DESIGNER OF THIS SYSTEM.
- MECHANICAL / HVAC:** WASTE HEAT FROM TELECOM EQUIPMENT ANTICIPATED TO BE 10 - 15 WATTS / SF FOR IDF SPACES, 20 - 25 WATTS / SF FOR MDF SPACES.

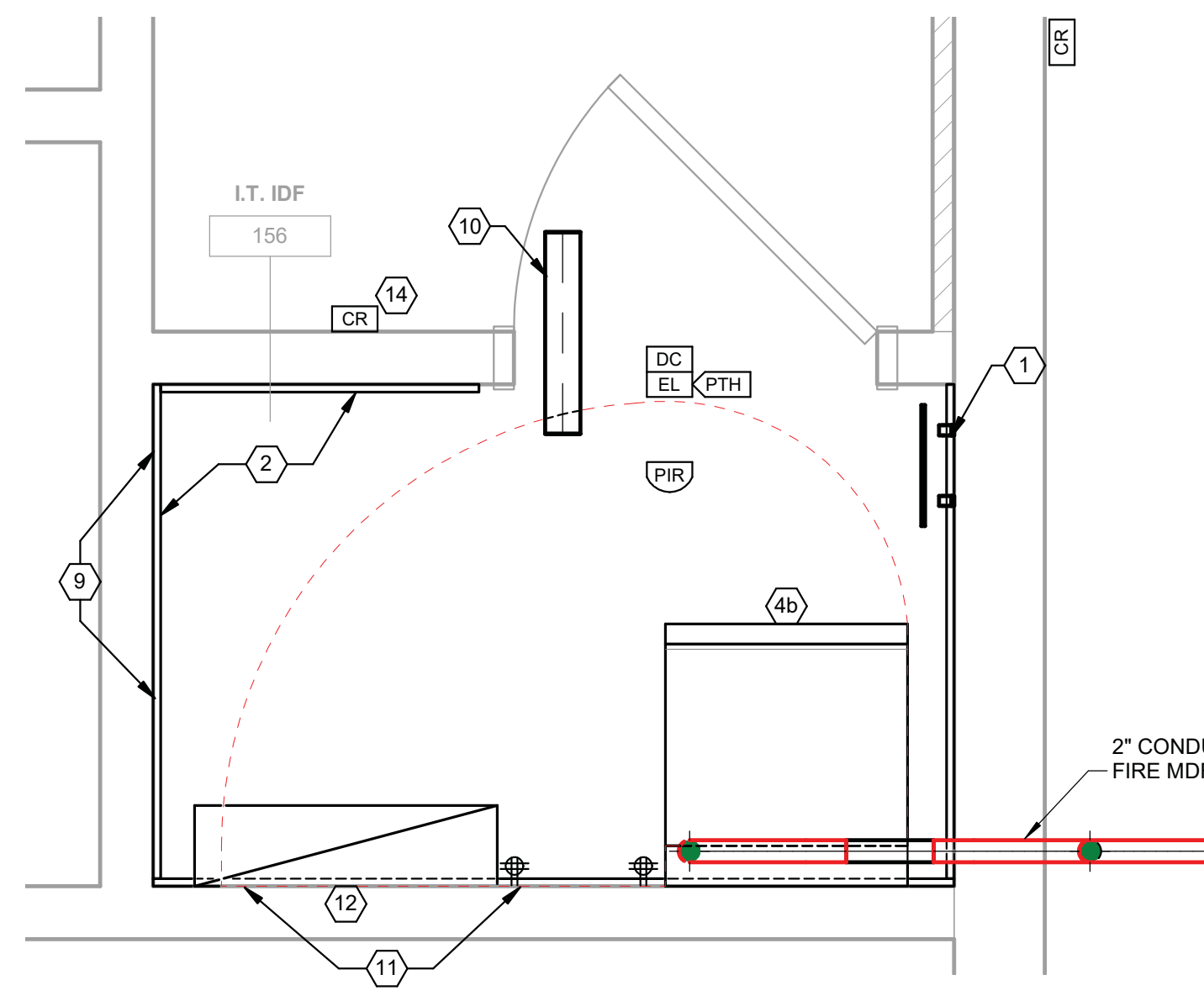
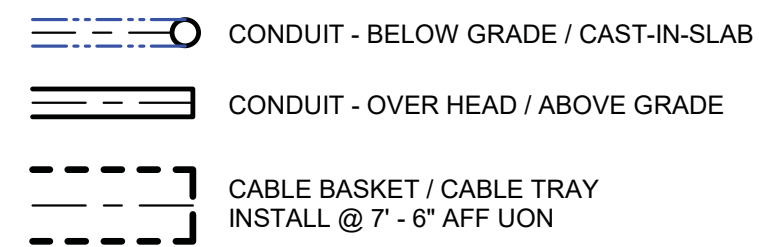
**L J & P**  
**Leppard Johnson & Associates, PC**  
 100 CRESCENT CENTRE PARKWAY, SUITE 520  
 TUCKER, GEORGIA 30084 (770)270-1588  
 C. PROJECT NO: 21042 FAX (770)270-9588

**RACEWAY KEYNOTES (NEMA):**

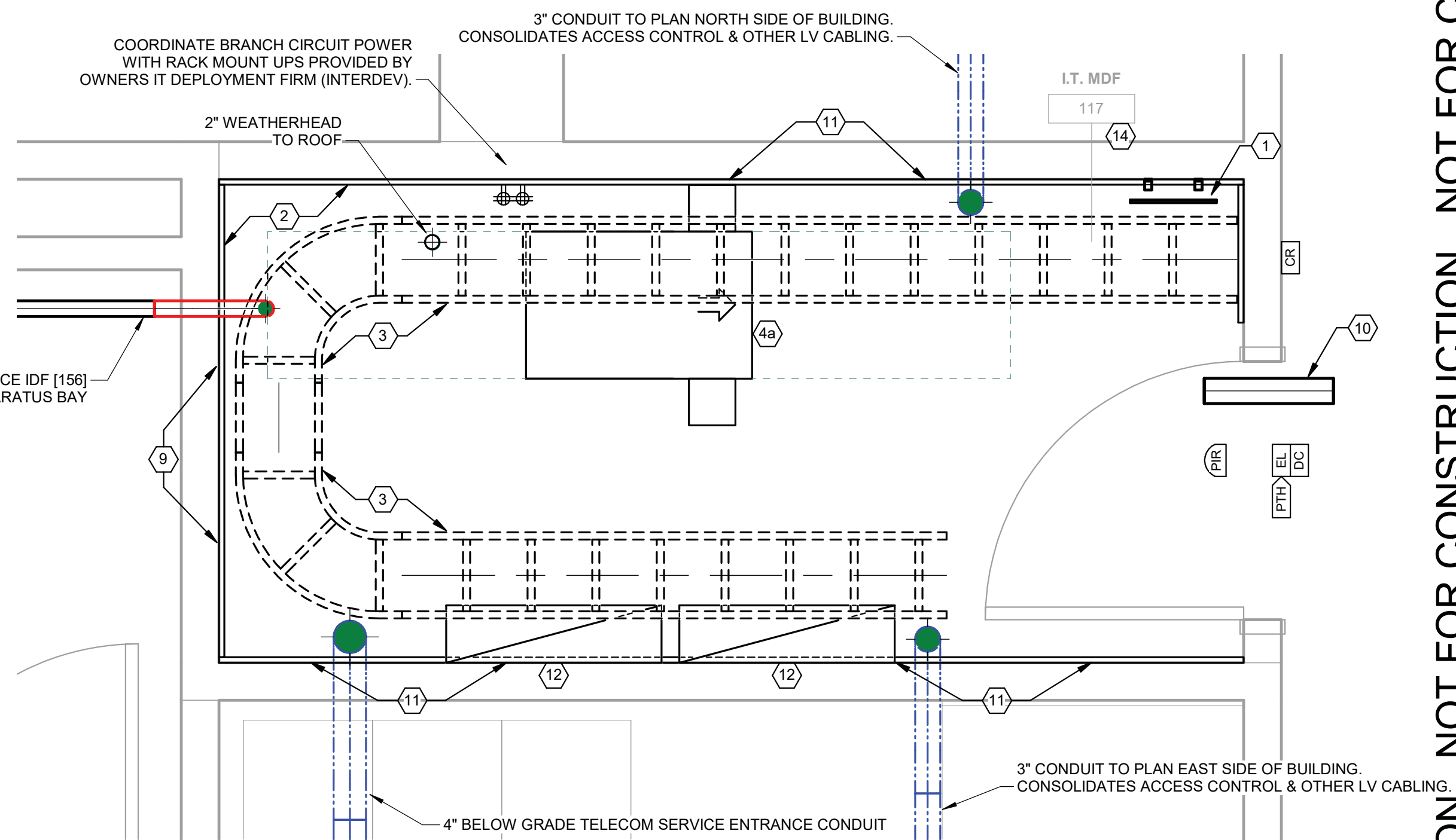
(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILING)

- A 16mm (1/2") RACEWAY
- B 21mm (3/4") RACEWAY
- C 27mm (1") RACEWAY
- D 35mm (1-1/4") RACEWAY
- E 41mm (1-1/2") RACEWAY
- F 53mm (2") RACEWAY
- G 78mm (3") RACEWAY
- H 103mm (4") RACEWAY
- W CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
- X DEFINED BY DIVISION 26 - ELECTRICAL
- Y CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)

**CABLE PATH LINE-TYPE LEGEND:**



**2 ENLARGED POLICE IDF (156)**  
 T3.5 SCALE: 3/4" = 1'-0"



**1 ENLARGED FIRE MDF (117)**  
 T3.5 SCALE: 3/4" = 1'-0"

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ENLARGED IT SPACES (TSYS)	CHECKED	TP
DESIGN	DRAWN	LJA
GS	LJA	TP

NO. DESCRIPTION	RELEASED FOR BID
DATE	
10/26/2021	

07/08/2021	DATE
A21-006	PROJ. NUMBER
	FILE NAME
	FILE NUMBER

**T3.5**

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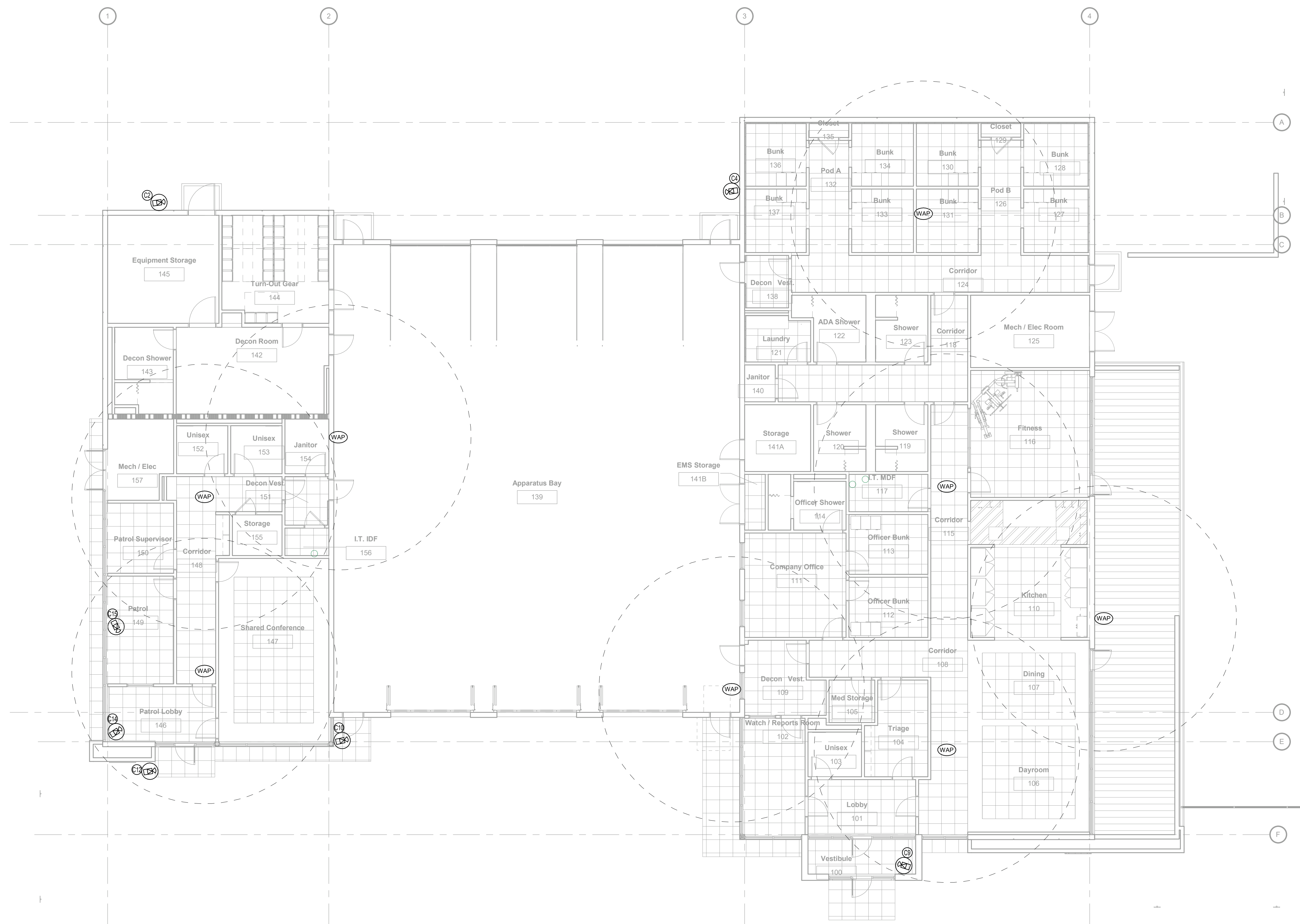
REFLECTED CEILING PLAN (TSYS)	DESIGN	DRAWN	CHECKED
	GS	LJA	TP
SHEET TITLE			PROJECT

NO. DESCRIPTION	DATE	RELEASED FOR BID
1	10/26/2021	

07/08/2021	1A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER
RELEASE			T4.1

- RACEWAY KEYNOTES (NEMA):**  
(3/4" MIN. CONDUIT STUBS REQUIRED FROM EACH WALL OUTLET LOCATION TO ACCESSIBLE CEILINGS)
- (A) 16mm (1/2") RACEWAY
  - (B) 21mm (3/4") RACEWAY
  - (C) 27mm (1") RACEWAY
  - (D) 35mm (1-1/4") RACEWAY
  - (E) 41mm (1-1/2") RACEWAY
  - (F) 53mm (2") RACEWAY
  - (G) 78mm (3") RACEWAY
  - (H) 103mm (4") RACEWAY
  - (W) CONDUCTORS IN PAVEMENT SAWCUT (PARKING CONTROL)
  - (X) DEFINED BY DIVISION 26 - ELECTRICAL
  - (Y) CABLING INSTALLED VIA CABLE SUPPORTS OR WITHIN WALL CAVITIES (FREE-RUN CABLING)

- GENERAL NOTES:**
- VOICE / DATA CABLING:
    - INSTALL VOICE / DATA CABLING TO NEAREST MDF / IDF CLOSET FOR TERMINATION. TERMINATE DATA CABLING TO CAT-6 RATED RJ-45 PATCH JACKS IN PATCH PANELS. TERMINATE VOICE / ANALOG CABLING TO 110-STYLE PUNCH-DOWN BLOCKS ON VOICE WALLFIELD. COORDINATE TERMINATIONS WITHIN SPACE WITH THE PUBLIC UTILITY AND OTHER TRADES.
    - DIFFERENTIATE EACH HORIZONTAL UTP CABLE BY SYSTEM / USE / SIGNAL TYPE BY PROVIDING EACH WITH A UNIQUE CABLE JACKET COLOR. PROVIDE RJ-45 TERMINATION JACKS WITH A MATCHING COLOR BODY / ICON. EXAMPLES OF USE:
      - VOICE / ANALOG = YELLOW JACKETED CABLING
      - DATA / WIRELESS ACCESS POINTS = GREEN JACKETED CABLING
      - SECURITY / SURVEILLANCE = BLUE JACKETED CABLING
      - AUDIO / VISUAL = WHITE JACKETED CABLING
      - FIRE PROTECTION / LIFE SAFETY = RED JACKETED CABLING
    - INSTALL VOICE / DATA OUTLETS REFLECTED AS TBD (LOCATION TO-BE-DETERMINED) WITH SUFFICIENT CABLE LOOP TO RELOCATE OUTLET PLATE WITHIN ROOM / SPACE. COORDINATE FINAL INSTALLATION OF OUTLET(S) WITH EQUIPMENT BEING SERVED.
    - INSTALL ONE (1) FOUR-PAIR (MINIMUM) ANALOG VOICE CABLE TO FIRE ALARM CONTROL PANEL.
  - AUDIO / VISUAL SYSTEM(S):
    - HOMERUN EACH AUDIO ZONE CABLING TO INDICATED AUDIO / VISUAL EQUIPMENT RACK.
    - PERFORM ALL WORK IN COMPLIANCE WITH SPECIFICATION SECTION 27-4100 (AUDIO / VIDEO SYSTEMS). REFERENCE CABLING DETAILS SHEET T6.x AND INSTALLATION DETAILS SHEETS T6.x & T6.x FOR ADDITIONAL REQUIREMENTS.
  - WI-FI SYSTEM:
    - INSTALL WIRELESS ACCESS POINT CAT-6 CABLING TO NEAREST IDF / MDF. TERMINATE CABLING ONTO A DEDICATED RJ-45 PATCH PANEL IN TERMINATIONS RACK.
    - LEAVE 10' SPARE CABLING COILED ABOVE ACCESSIBLE CEILINGS TO ALLOW FOR AP LOCATION ADJUSTMENTS. INSTALL CAT-6 CABLING INTO AP BACKBOX IN NON-ACCESSIBLE CEILINGS.
    - PROVIDE WEATHER RESISTANT (IP-55 OR BETTER) ENCLOSURES FOR EXTERIOR MOUNTED ACCESS POINTS. COORDINATE CABLING WITH PROVIDER OF ACTIVE NETWORK EQUIPMENT.




 1
   
**FIRST FLOOR REFLECTED CEILING PLAN**
  
 T4.1 SCALE: 1/8" = 1'-0"

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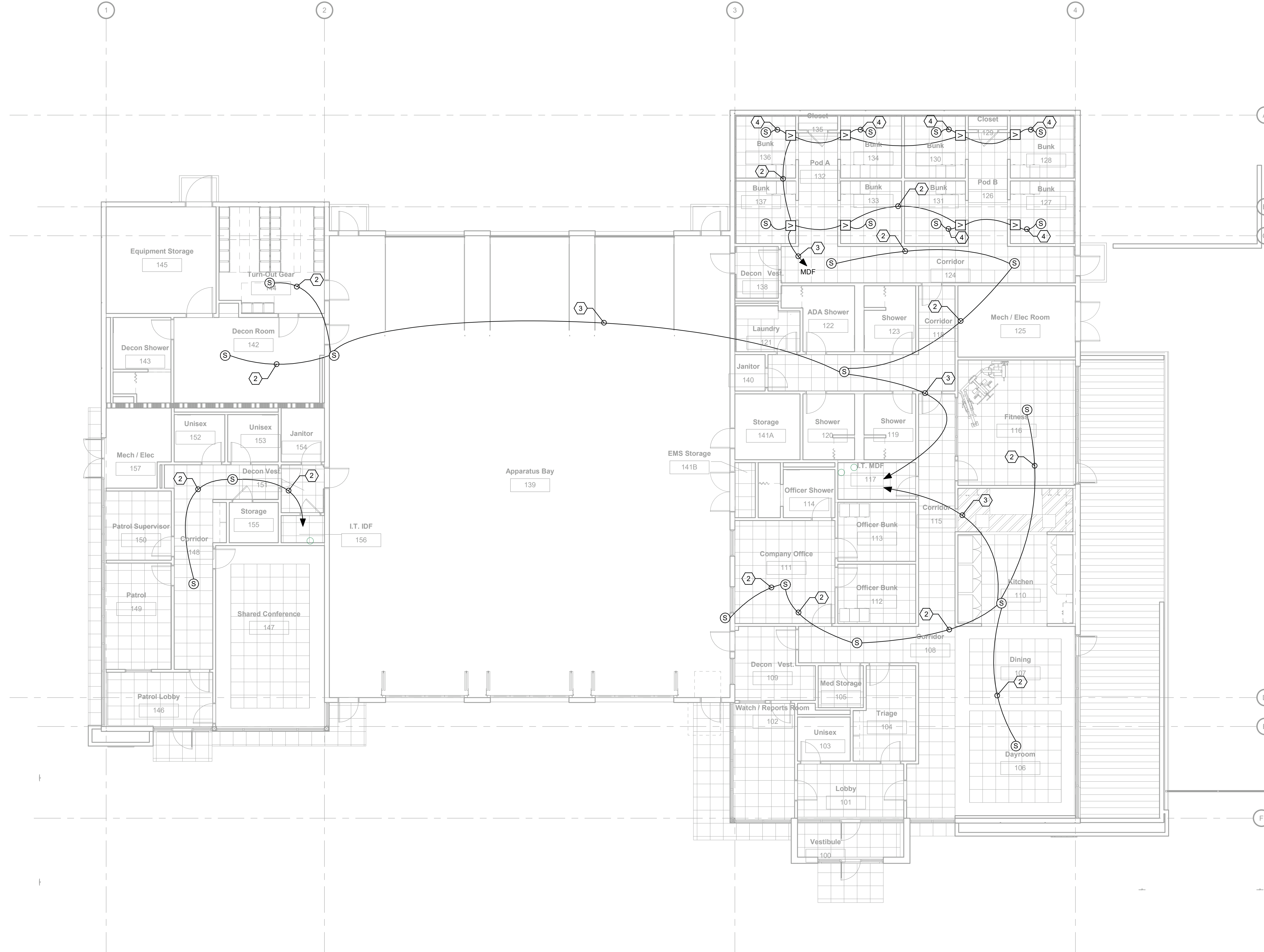
**GENERAL NOTES (PAGING SYSTEM):**

1. REFERENCE DETAILS ON SHEETS T5.x AND T6.x FOR SUPPLEMENTAL SYSTEM INFORMATION AND REQUIREMENTS.
2. PAGING WITHIN OFFICE SPACES IS INTENDED TO BE PRIMARILY VIA TELEPHONE DESKSETS.
3. PERFORM ALL WORK IN COMPLIANCE WITH SECTION 27-4100.
4. REFERENCE ONE-LINE DIAGRAMS ON SHEET T5.5 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.


  
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 TUCKER, GEORGIA 30084 170270-1588  
 C. PROJECT NO: 21042 FAX (770)270-9588

**CABLING KEYNOTES (PAGING):**

- ① #20 AWC / 2C / TP (0.145" O.D.)
- ② #18 AWG / 2C / TP (0.155" O.D.)
- ③ #16 AWG / 2C / TP (0.189" O.D.)
- ④ #18 AWG / 3C (VOLUME CONTROLS) (0.195" O.D.)



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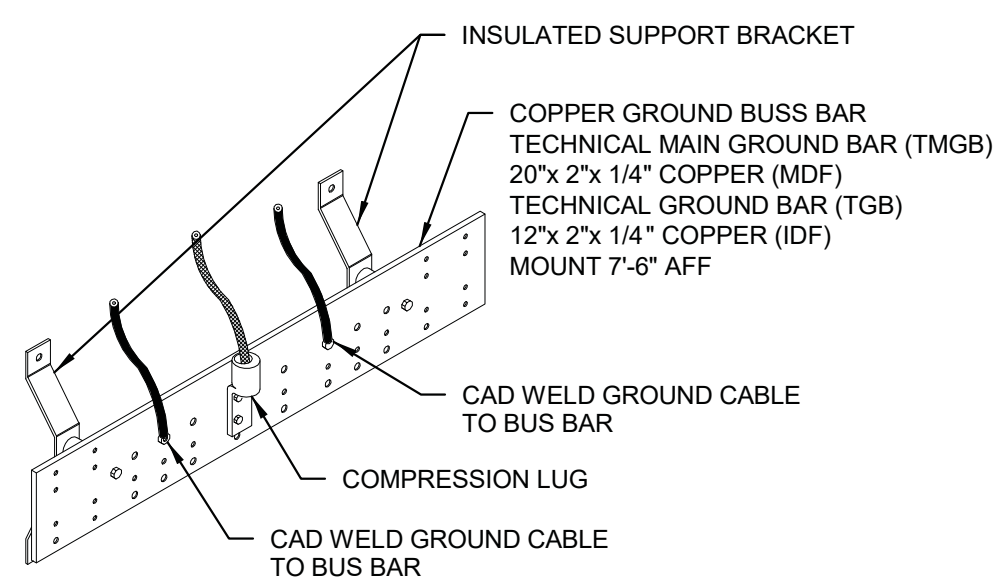
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<p><b>Gillem Public Safety Building</b>                  2990 Anvil Block Road                  Forest Park, GA 30294</p>		<p><b>SHEET TITLE</b></p>	
<p><b>PAGING SPEAKER PLAN (TSYS)</b></p>		<p><b>RELEASE</b></p>	
<p>DATE: 10/26/2021</p>	<p>NO. DESCRIPTION: RELEASED FOR BID</p>		
<p>07/08/2021                  DATE</p>	<p>A21-006                  PROJ. NUMBER</p>	<p>DESIGN                  GS</p>	<p>DRAWN                  LJA</p>
<p>FILE NAME</p>	<p>FILE NUMBER</p>	<p>CHECKED                  TP</p>	<p>TP</p>
T4.2			





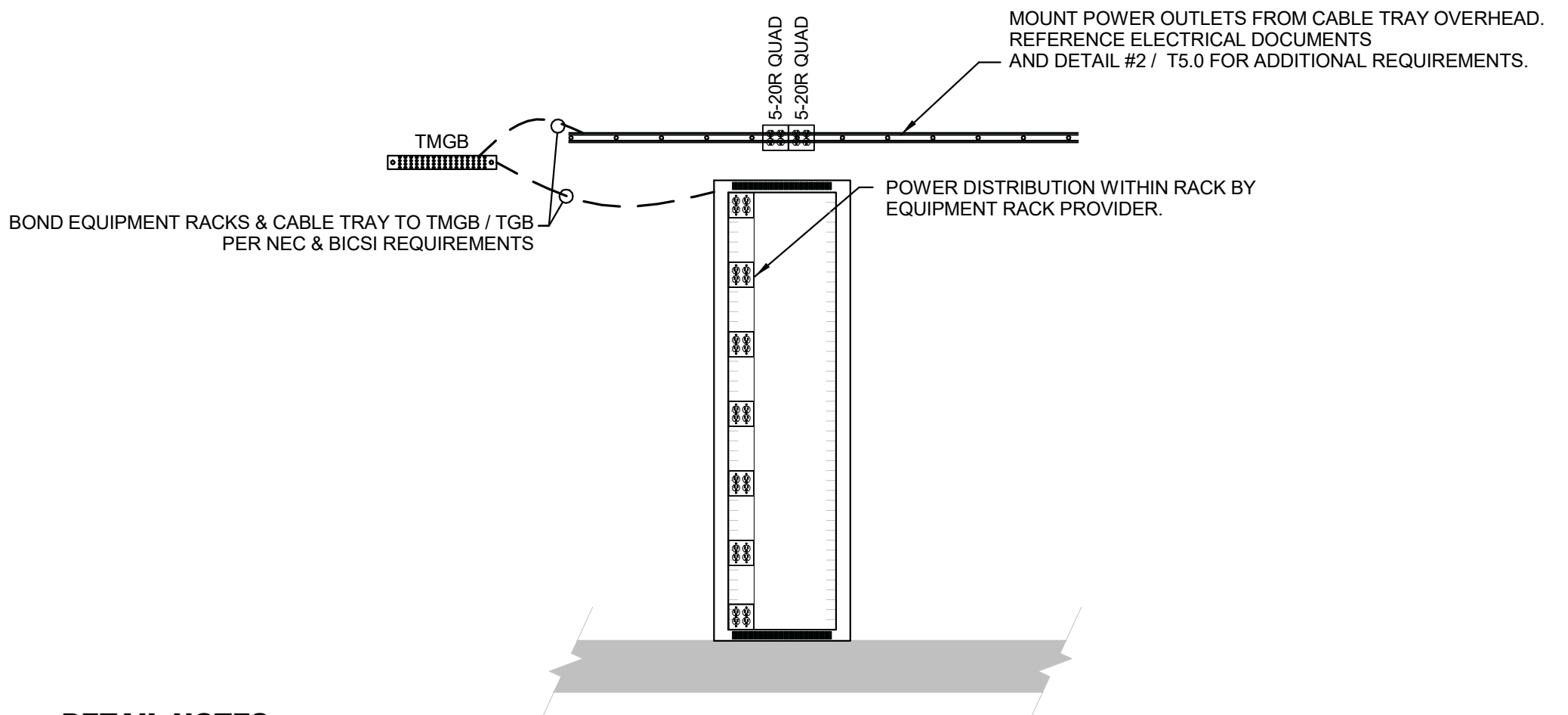
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- DETAIL NOTES:**
- GROUNDING BAR IS CONSTRUCTED OF CONDUCTOR GRADE COPPER, NOMINAL DIMENSIONS 1/2" x 2" x 1/4" MINIMUM (IDF) & 20" x 2" (MDF). INSULATORS RATED FOR 2500V MINIMUM. STANDOFF BRACKETS ARE STAINLESS OR POWDER COATED STEEL.
  - SELECT GROUND BAR TO ACCOMMODATE NUMBER OF CONDUCTORS TO BE TERMINATED PLUS 30% SPARES. HOLE PATTERNS AND HOLE SIZES TO CONFORM TO STANDARD NEMA HOLE PATTERNS.
  - MAXIMUM UNSUPPORTED GROUND BAR LENGTH SHALL BE 20 INCHES.
  - EACH CONDUCTOR MUST BE INDIVIDUALLY TERMINATED TO GROUND BAR. ALL CONDUCTORS MUST BE TERMINATED WITH TWO-HOLE LUGS.
  - PROVIDE ONE GROUNDING BAR EACH MDF / IDF. PROVIDE BONDING OF GROUNDING BAR TO STRUCTURE / TECHNICAL GROUND RISER PER NEC AND BICSI REQUIREMENTS.

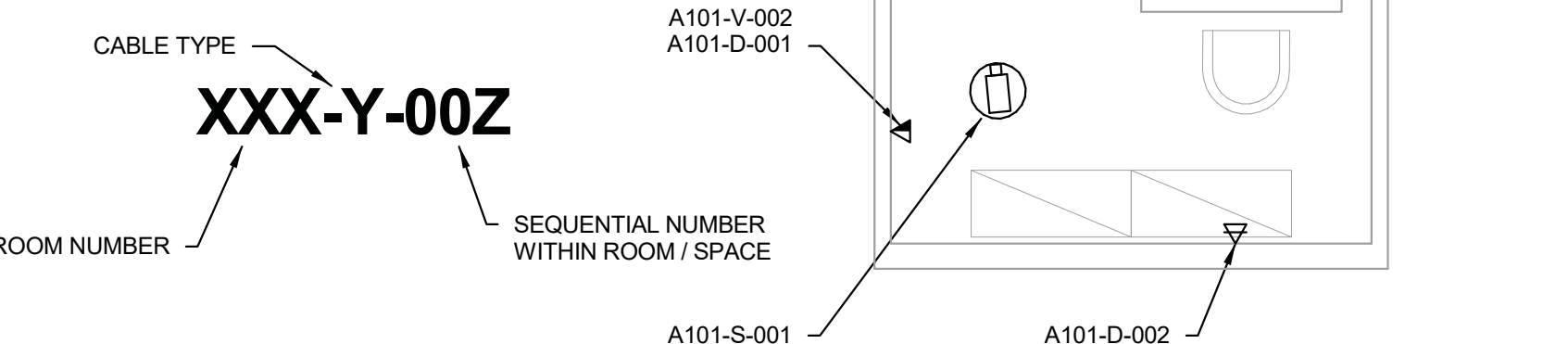
2 **GROUNDING BAR DETAIL (TGB / TMGB)**  
 T5.0 SCALE: N.T.S.



- DETAIL NOTES:**
- GROUND AND BOND EQUIPMENT RACKS AND CABLE TRAY PER NEC REQUIREMENTS. REFERENCE NEC 250.
  - PROVIDE THE FOLLOWING BRANCH CIRCUIT POWER TO EACH RACK SHOWN ON THE FLOORPLAN DRAWINGS:  
 - 2ea. NEMA 5-20R
  - INSTALL RACEWAYS / POWER DISTRIBUTION EQUIPMENT CLEAR OF EQUIPMENT MOUNTING SPACE(S).
  - COORDINATE INSTALLATION AND CONNECTION OF POWER WITH ELECTRICAL SYSTEM INSTALLER.

1 **EQUIPMENT RACK BRANCH CIRCUIT POWER REQUIREMENTS**  
 T5.0 SCALE: N.T.S.

**CABLE TYPE DESIGNATIONS:**  
 "V" = VOICE  
 "D" = DATA  
 "A" = AUDIO  
 "S" = SURVEILLANCE / SECURITY  
 "T" = CATV / MATV / SATV  
 "U" = USER INTERFACE & CONTROL  
 "M" = MESSAGE BOARD / DIGITAL SIGNAGE  
 "C" = CONTROL



- DETAIL NOTES:**
- PROVIDE EACH TECHNOLOGY SYSTEMS CABLE WITH A UNIQUE IDENTIFICATION NUMBER WHICH MUST BE PRINTED / ENGRAVED UPON A PERMANENTLY AFFIXED LABEL APPLIED TO BOTH ENDS OF EACH CABLE / CABLE ASSEMBLY. LABEL MUST BE APPLIED ON OUTER JACKET WITHIN 12" OF THE FINAL TERMINATION.
  - BEGIN CABLING NUMERICAL SEQUENCE STARTING AT 12:00 IN THE ROOM (PLAN NORTH) AND INCREMENT COUNTERCLOCKWISE AROUND THE ROOM / SPACE.
  - WHERE CAT-6 UTP CABLING IS USED ACROSS MULTIPLE SYSTEMS / USES (VOICE / DATA / CATV), PROVIDE CATEGORY RATED UTP CABLING WITH UNIQUE COLOR JACKET BY SYSTEM / USE. (i.e. VOICE = BLUE, DATA = YELLOW, CCTV = GREEN, AV / CONTROL = WHITE, FIRE PROTECTION = RED)
  - CABLING IDENTIFICATION PLAN REFLECTED IN THIS DETAIL IS ACCEPTABLE WITHOUT FURTHER SUBMITTAL. SUBMIT FOR APPROVAL ANY DESIRED ALTERNATE CABLE IDENTIFICATION PLANS.

3 **TYPICAL CABLING ID REQUIREMENTS**  
 T5.0 SCALE: N.T.S.

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DESIGN	GS	DRAWN	LJA

DATE	NO.	DESCRIPTION
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AZ1-006	PROJ. NUMBER
	FILE NAME
	FILE NUMBER

T5.0

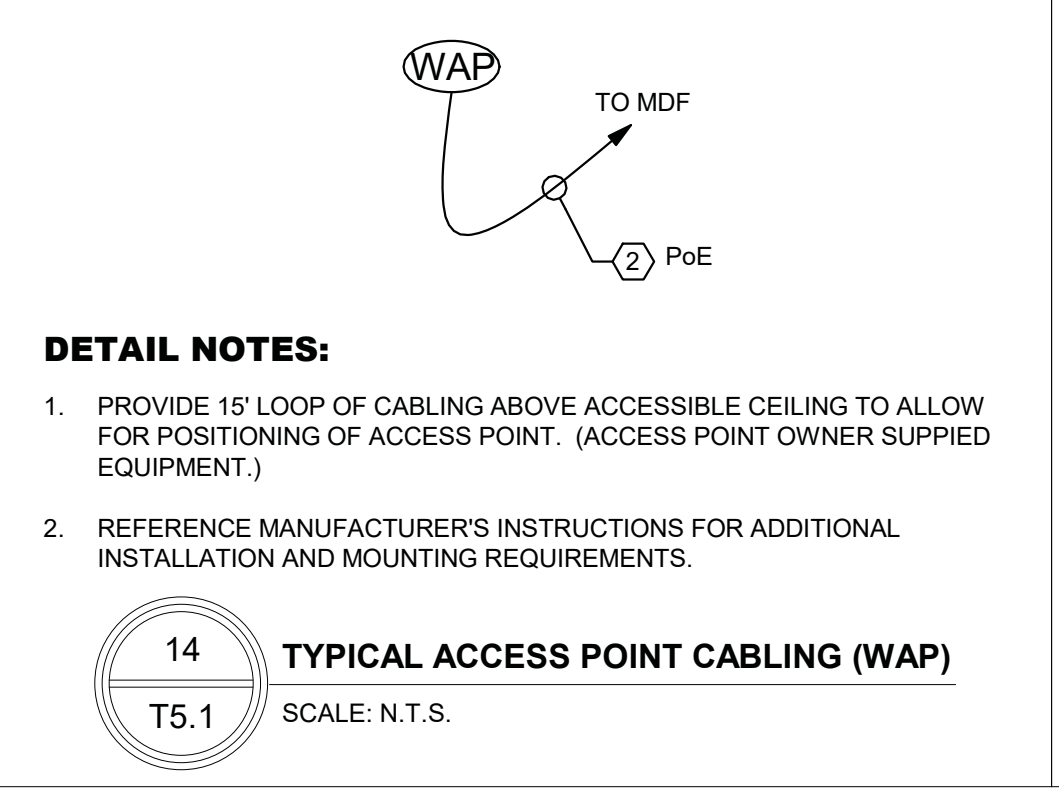
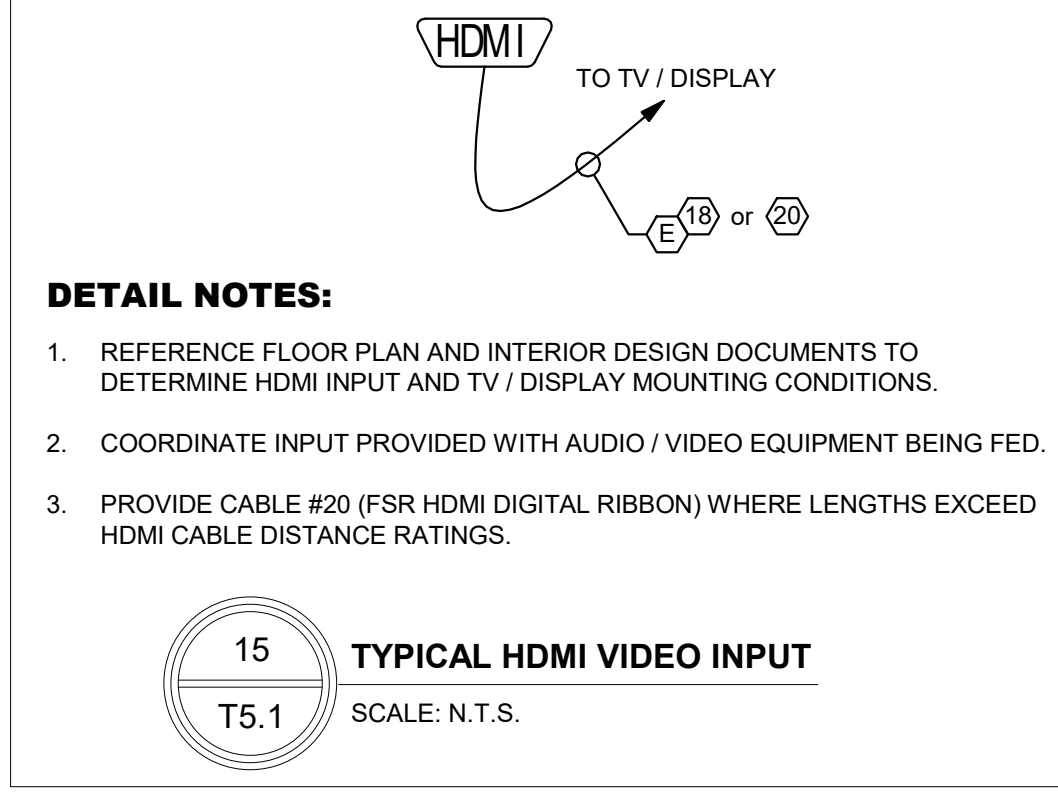
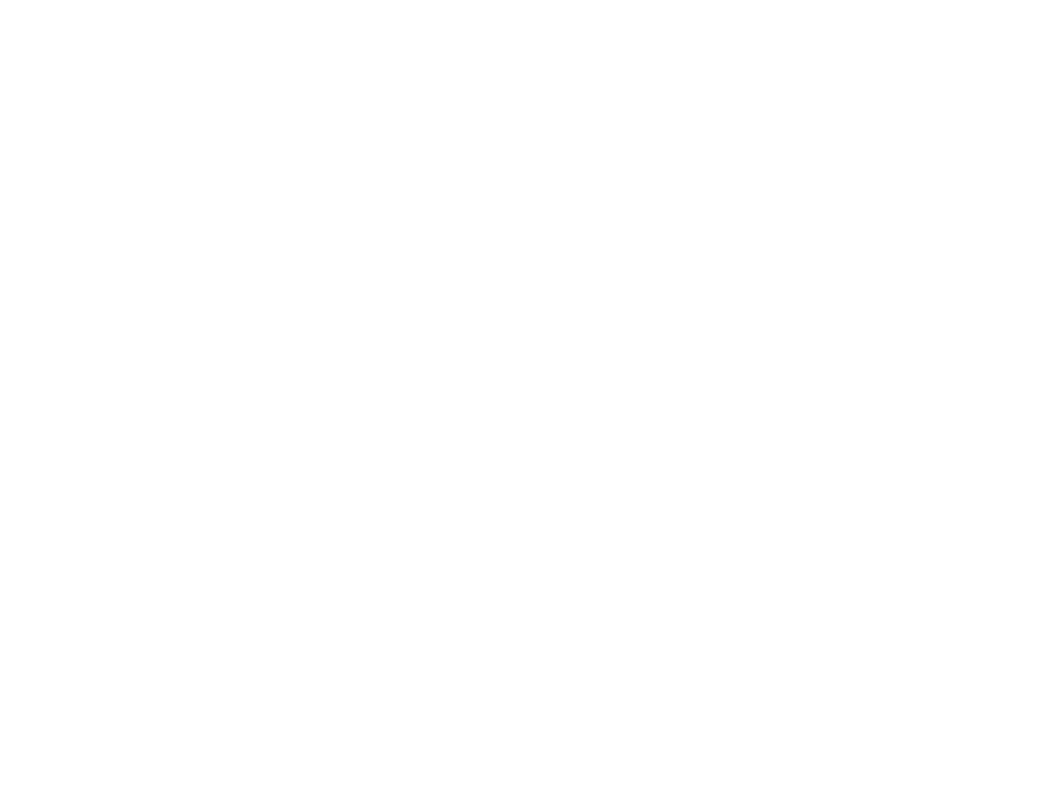
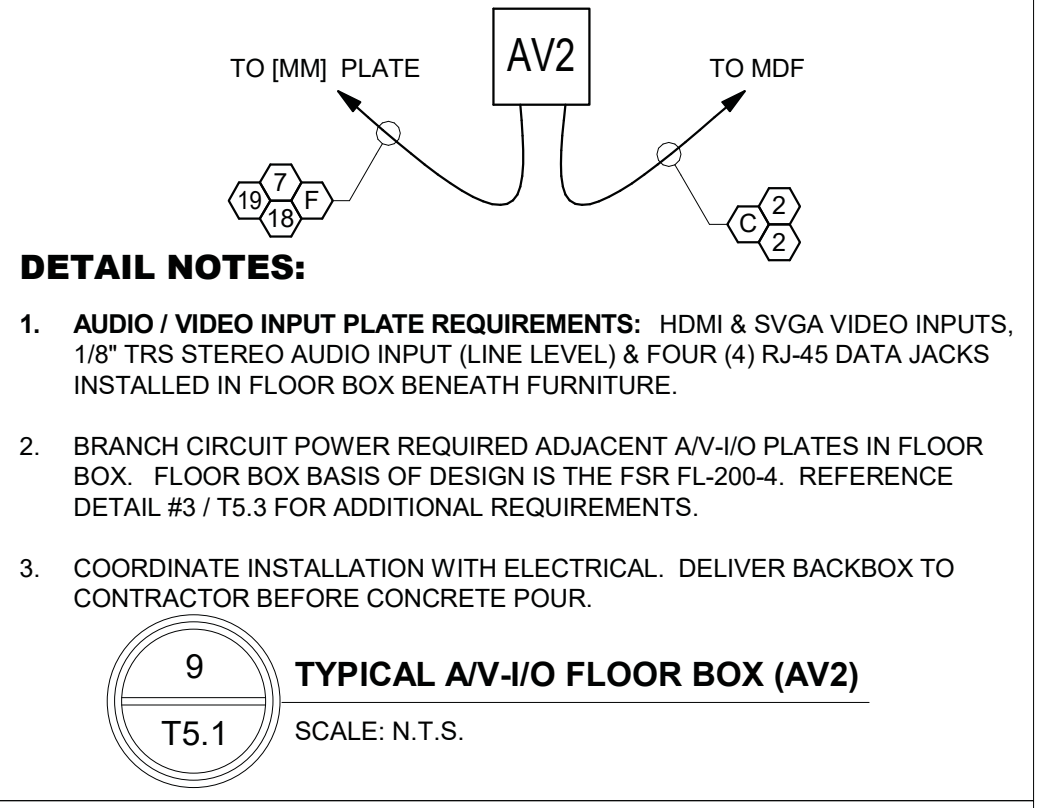
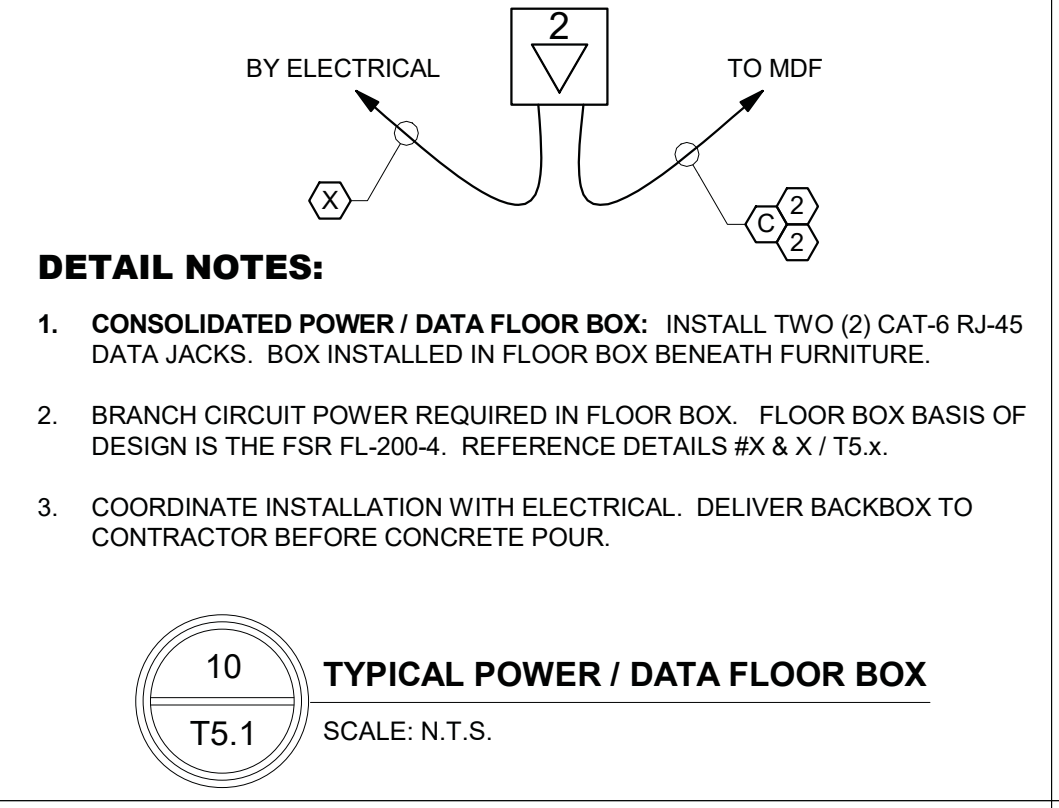
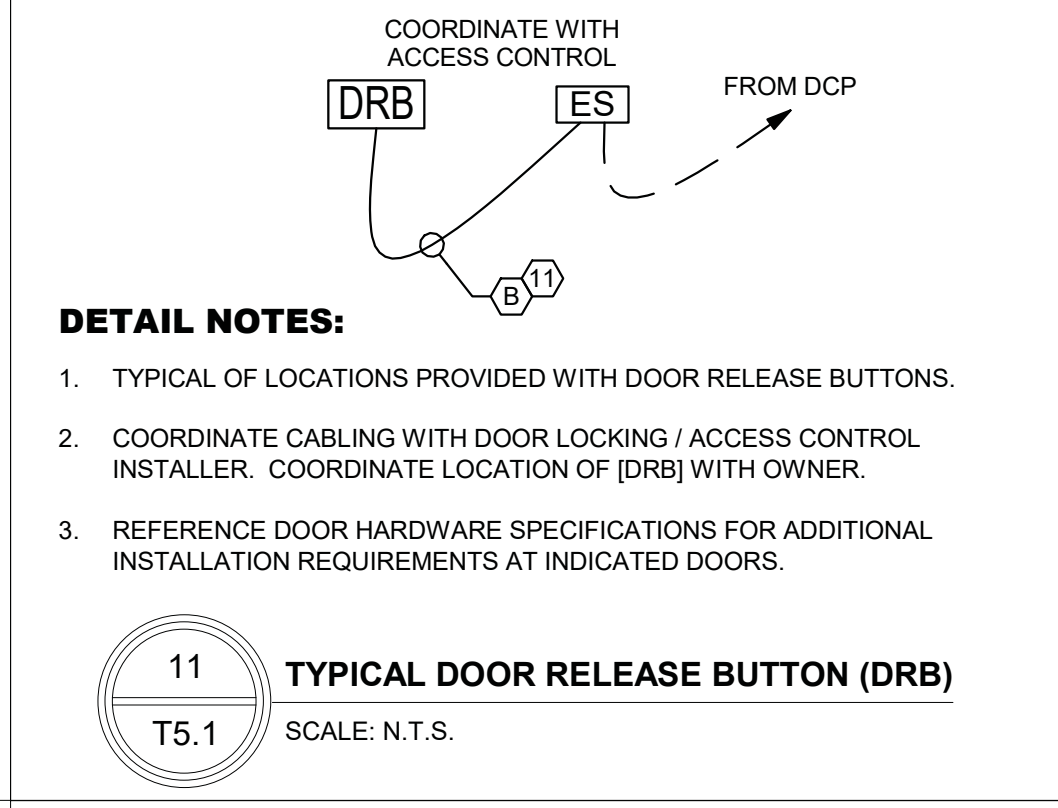
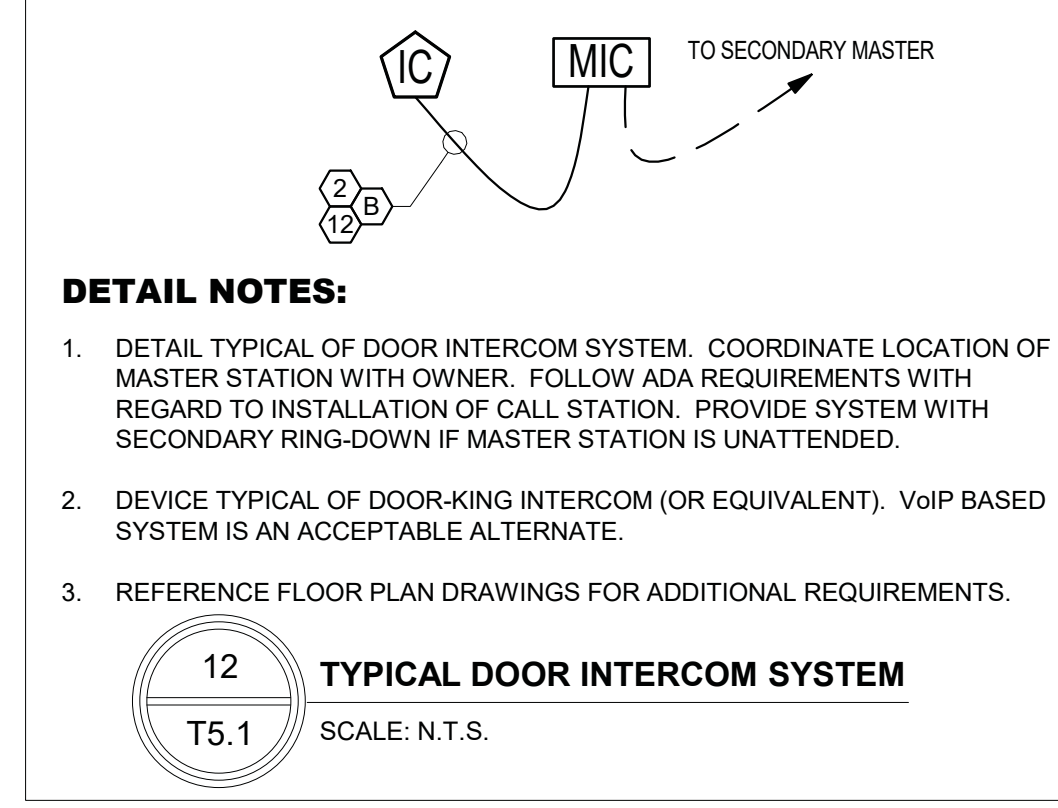
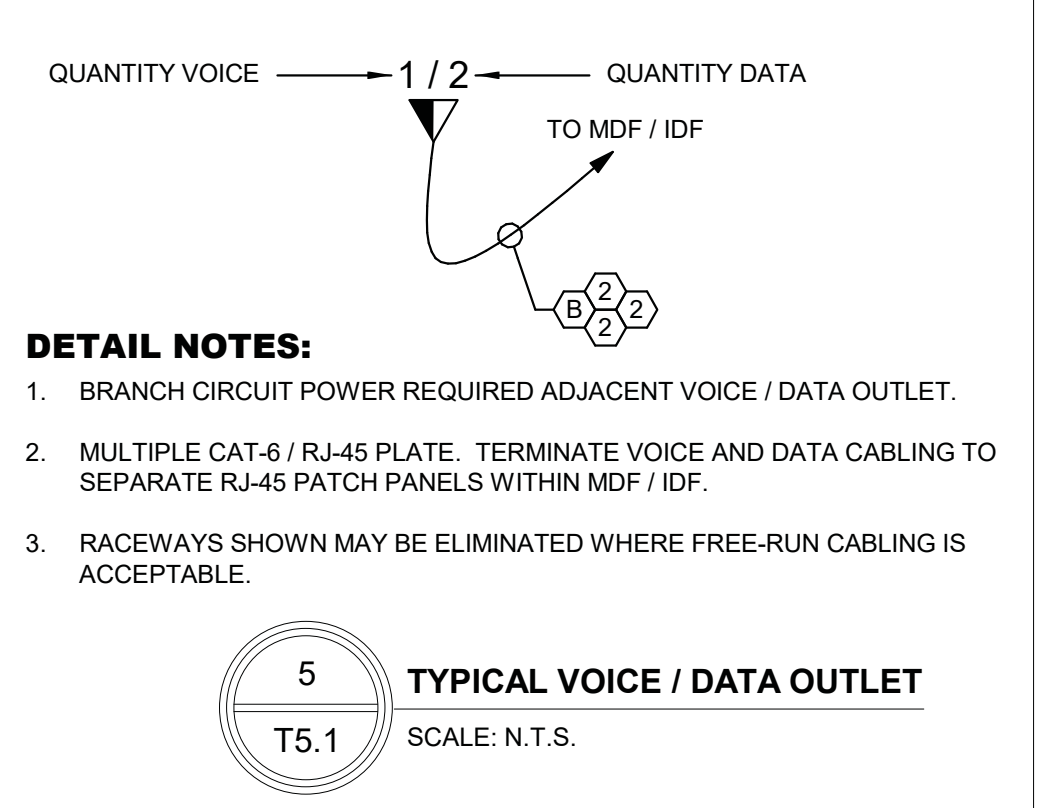
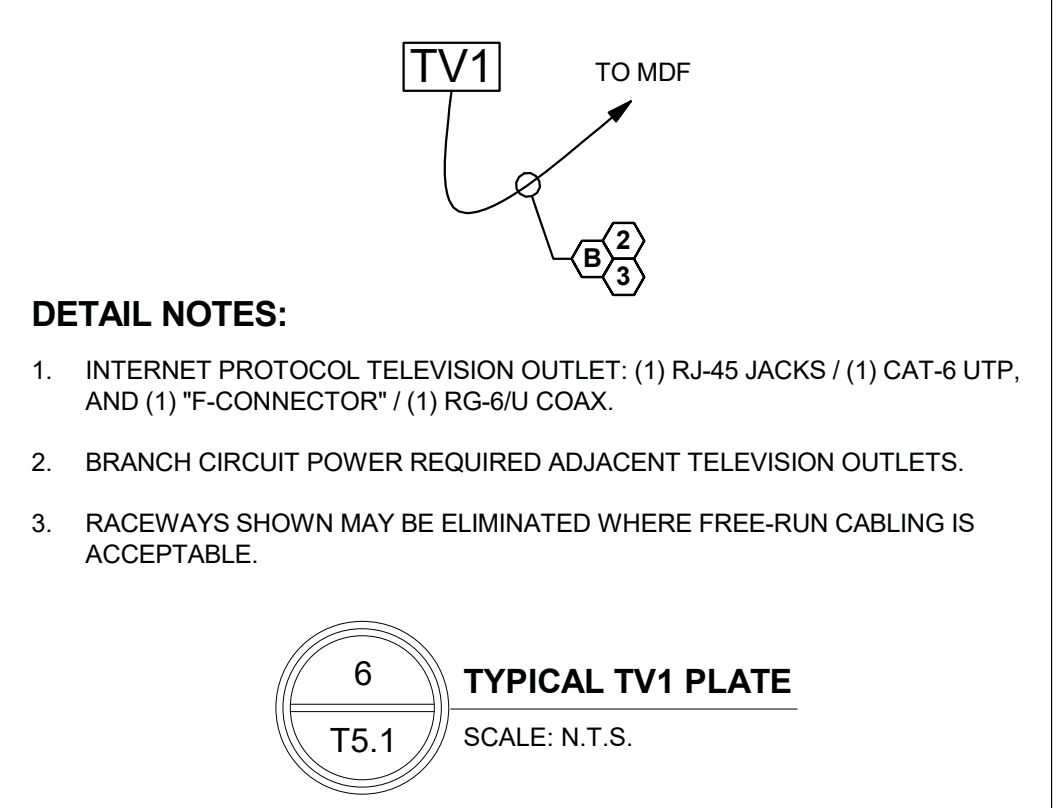
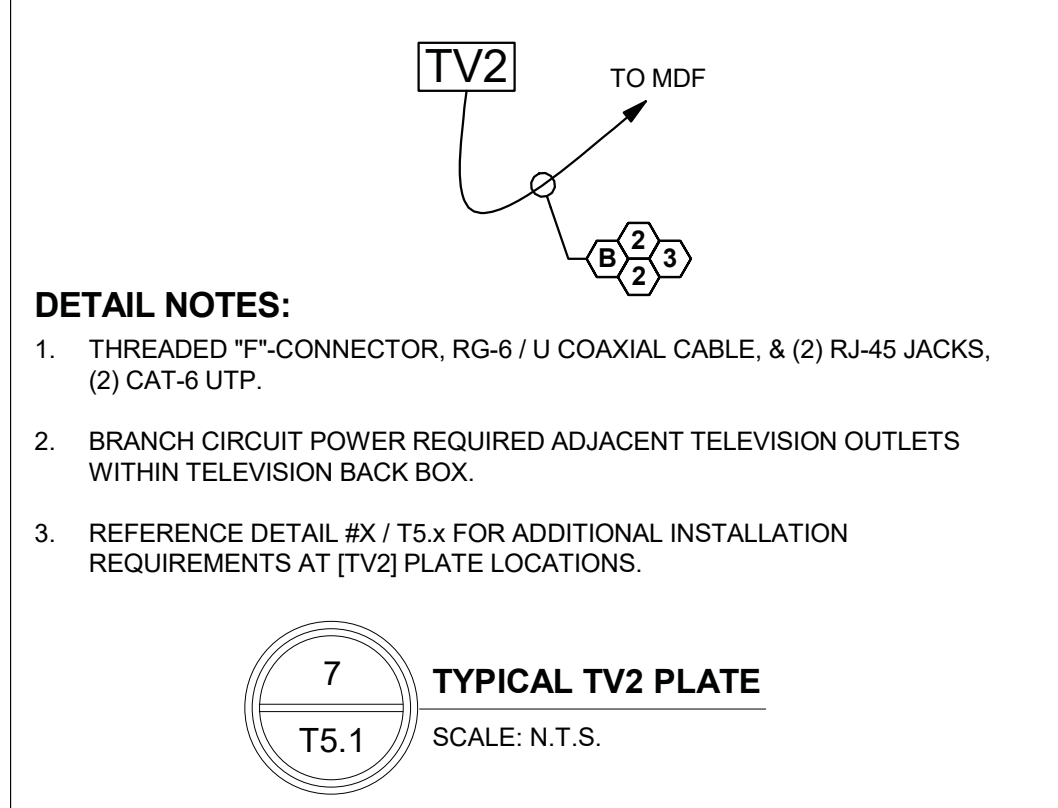
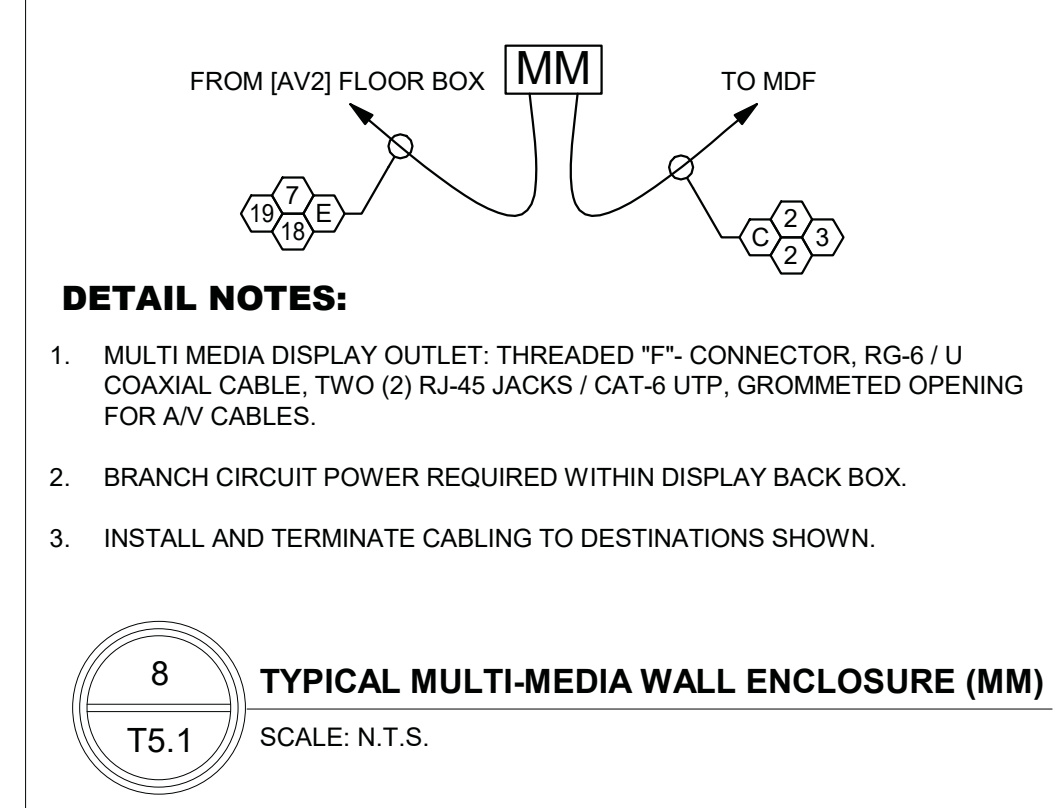
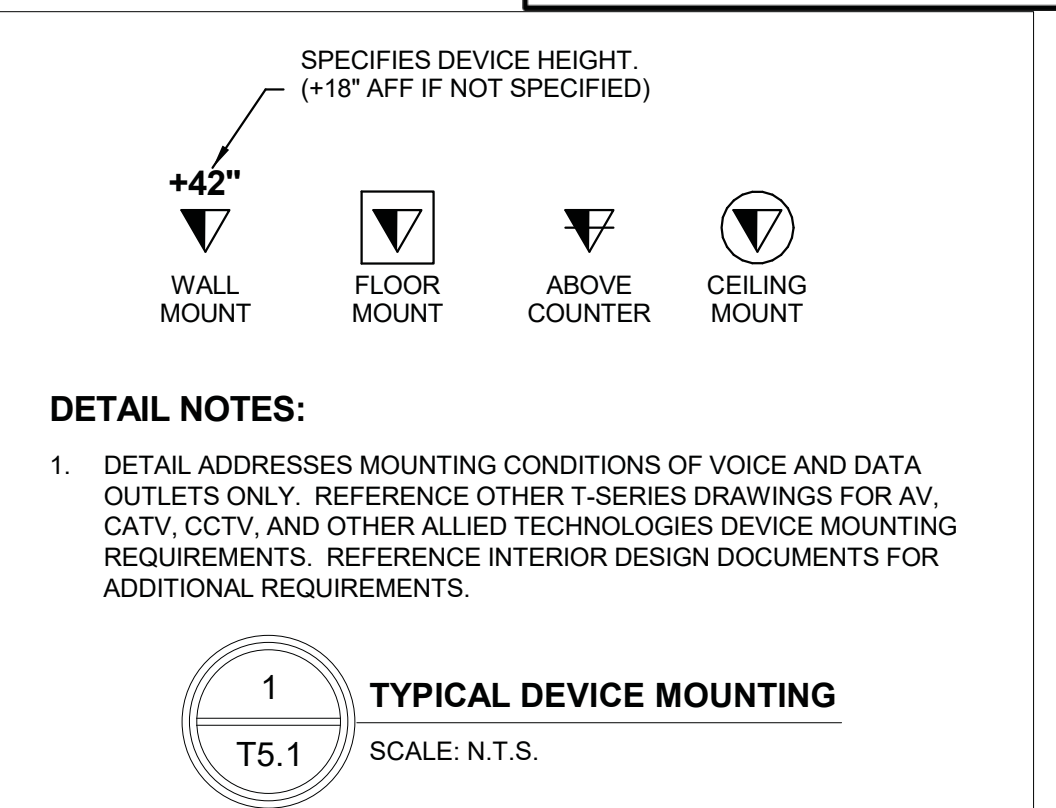
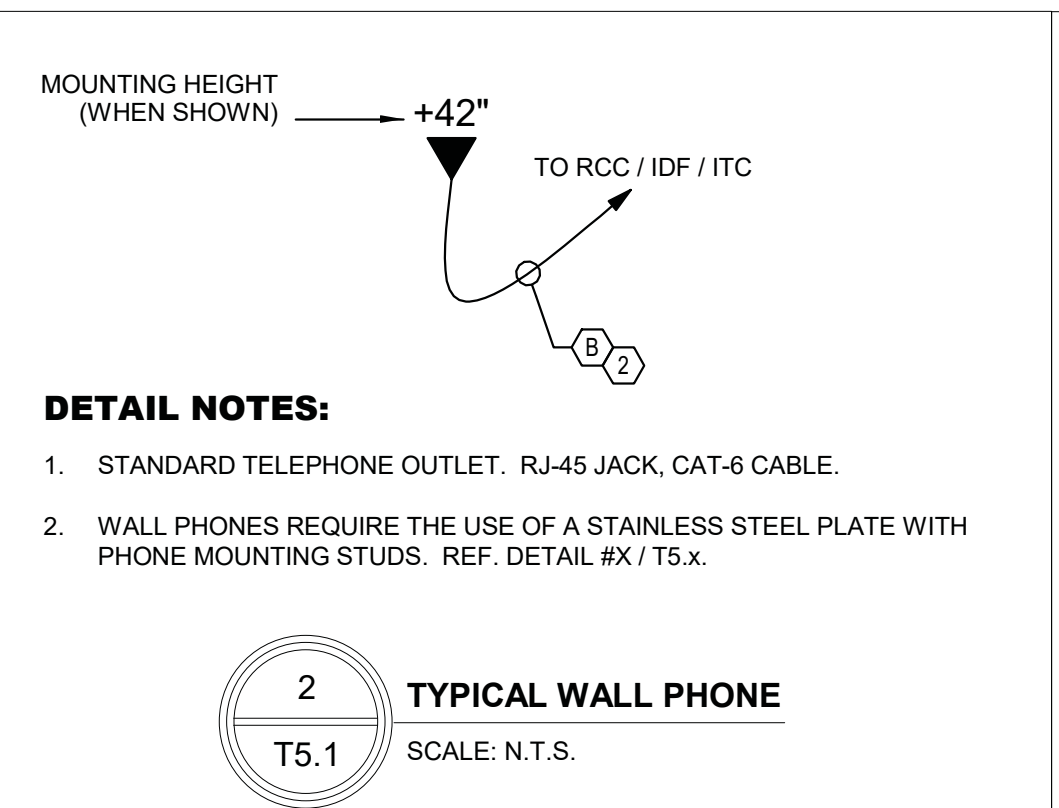
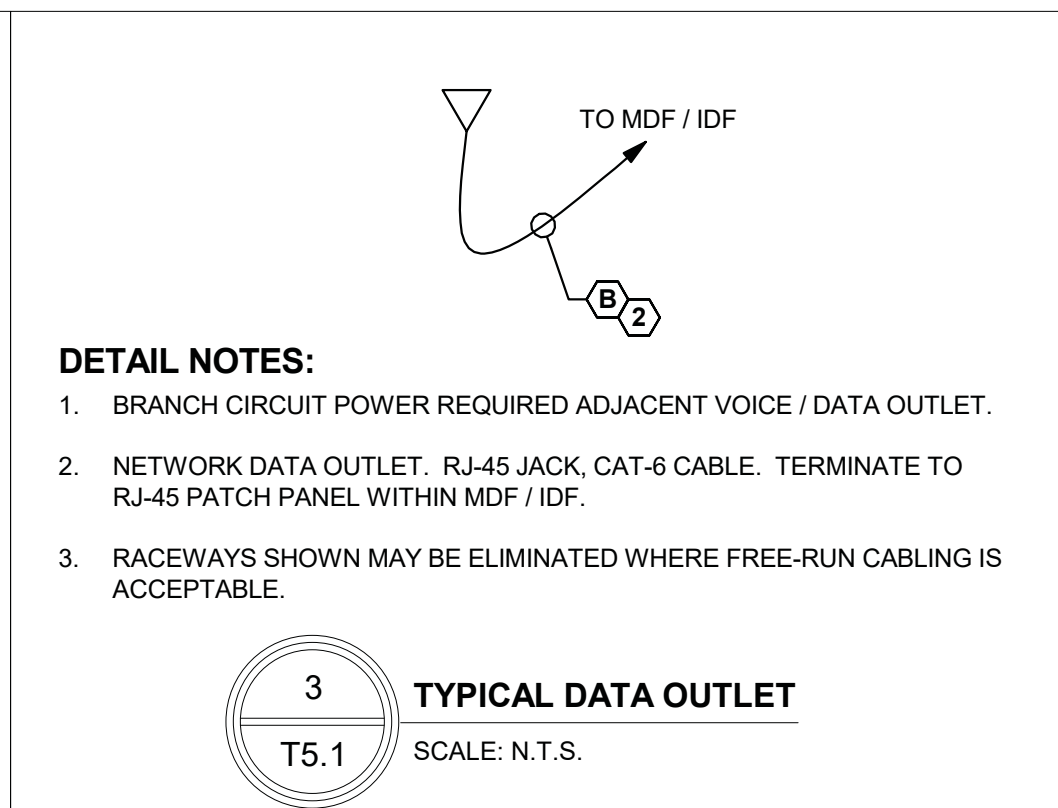
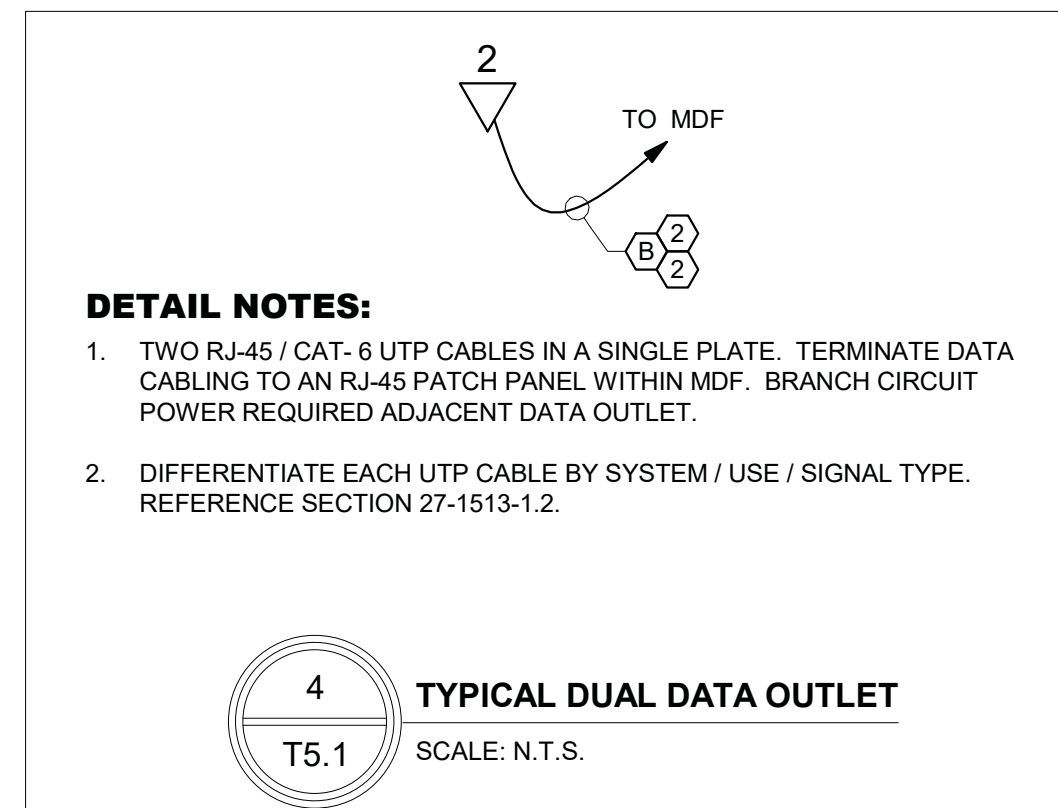
**CABLING KEYNOTES:**

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**RACEWAY KEYNOTES (NEMA):**

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- A 16mm (1/2") RACEWAY
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**Gillem Public Safety Building**  
 2090 Anvil Block Road  
 Forest Park, GA 30294

NO.	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKED	TP
1	RELEASED FOR BID	10/26/2021	GS	LJA		

**T5.1**

**CONNECTOR / DEVICE KEYNOTES (A/V PLATES):**

- (A1) MICROPHONE, 3-PIN XLR, FEMALE BALANCED (NC3FDL)
- (A2) AUDIO OUTPUT, 3-PIN XLR, MALE BALANCED, (NC3MDL)
- (A3) AUDIO INPUT / OUTPUT, 1/4" PHONE JACK (NJ6FP6C)
- (A4) 3.5mm (1/8") PHONE JACK, TIP-RING-SLEEVE
- (D1) CAT-5e / 6 RATED RJ-45 JACK
- (D2) SERIAL PORT, DB-9 FEMALE (RS-232)
- (D3) USB EXTENSION PORT
- (E1) 120V / 15A BRANCH CIRCUIT OUTLET (NEMA 5-15)
- (E2) 120V / 20A BRANCH CIRCUIT OUTLET (NEMA 5-20)
- (P0) POLYCARBONATE BLANK (NEUTRIK "DBA")
- (P1) ONE-GANG PLATE (POLYCARBONATE)
- (P2) TWO-GANG PLATE (POLYCARBONATE)
- (P3) THREE-GANG PLATE (POLYCARBONATE)
- (S0) CUSTOM SS / ALUMINUM CONNECTOR PLATE
- (S1) ONE-GANG CUSTOM PLATE (SS / ALUMINUM) - ETCHED
- (S2) TWO-GANG CUSTOM PLATE (SS / ALUMINUM) - ETCHED
- (S3) THREE-GANG CUSTOM PLATE (SS / ALUMINUM) - ETCHED
- (S4) FOUR-GANG CUSTOM PLATE (SS / ALUMINUM) - ETCHED
- (T1) CATV THREADED "F"-TYPE BARREL CONNECTOR
- (T2) AT-10 / 35 / 75 AUTOFORMER ATTENUATOR
- (V1) ANALOG RJ-11 / 14 JACK
- (V2) VIDEO, ANALOG, BAYONET FEMALE (BNC)
- (V3) VIDEO, ANALOG COMPONENT (HD-15)
- (V4) VIDEO, DIGITAL (DVI-D, DVI-I)
- (V5) VIDEO / AUDIO, HDMI
- (X1) SPST TOGGLE SWITCH
- (X2) DPDT TOGGLE SWITCH

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**Leppard Johnson & Associates, PC**
  
 100 CRESCENT CENTRE PARKWAY, SUITE 520
   
 TUCKER, GEORGIA 30084 (770)270-1588
   
 C. PROJECT NO: 21042 FAX (770)270-9588

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Gillem Public Safety

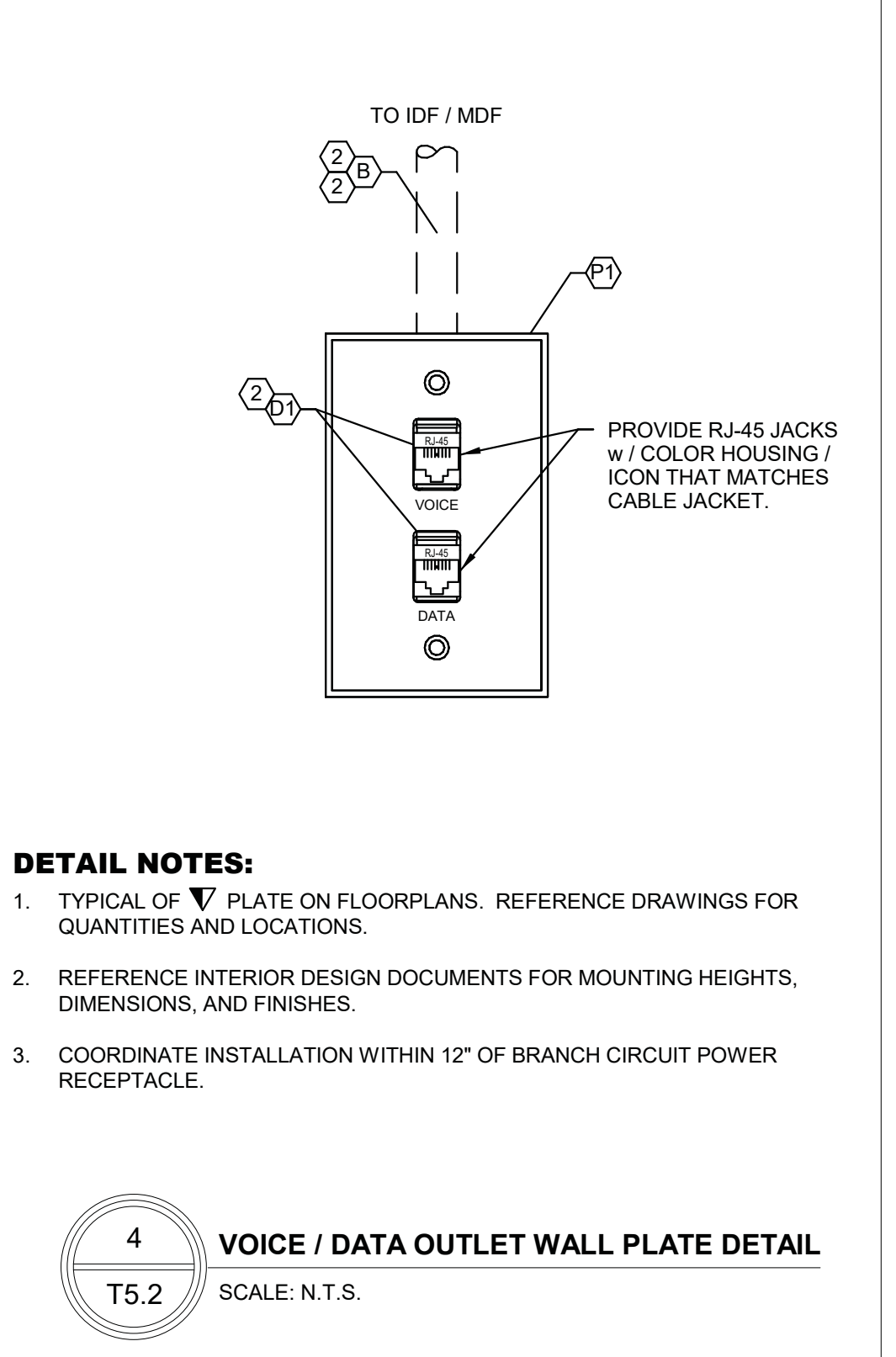
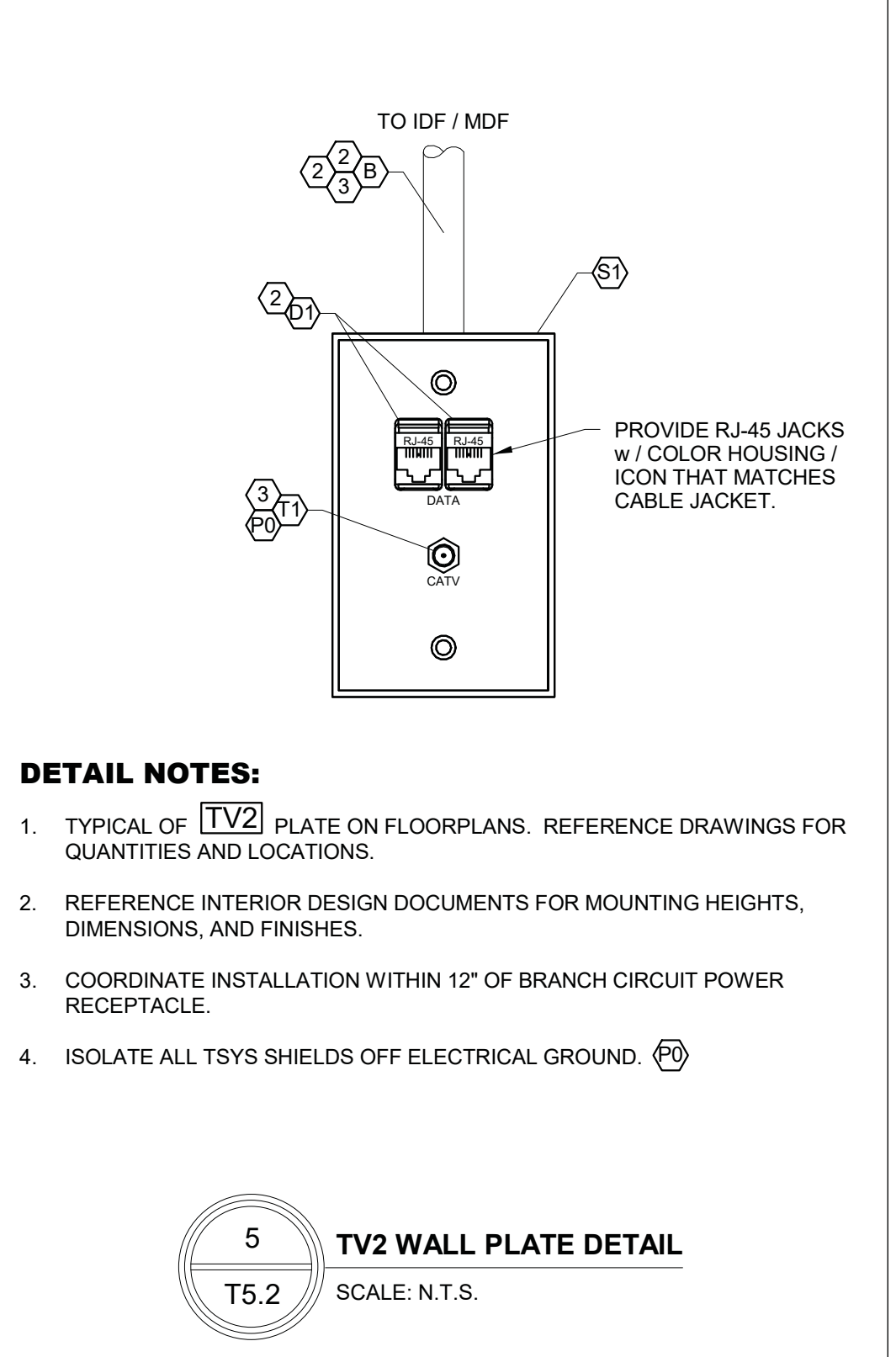
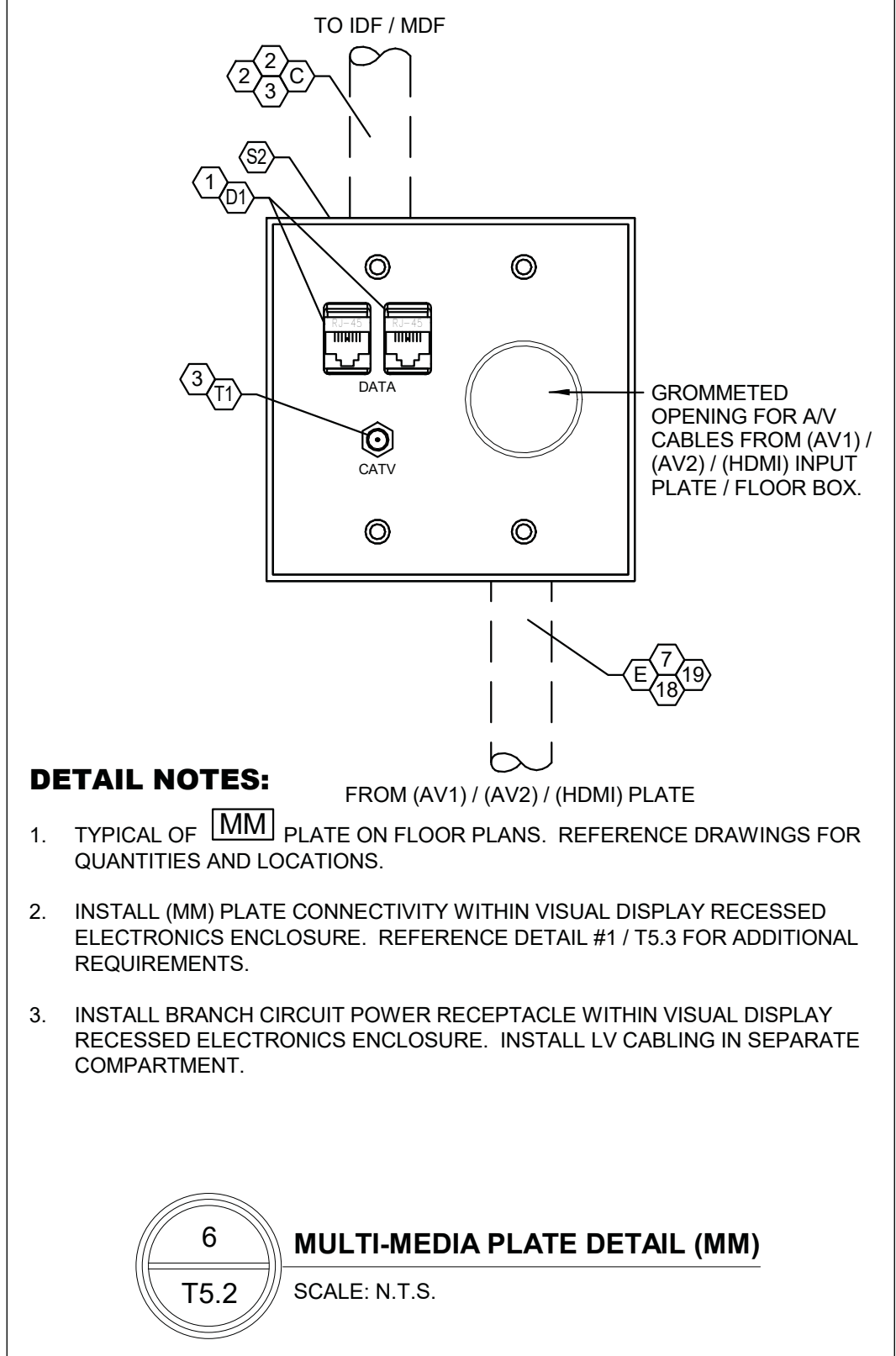
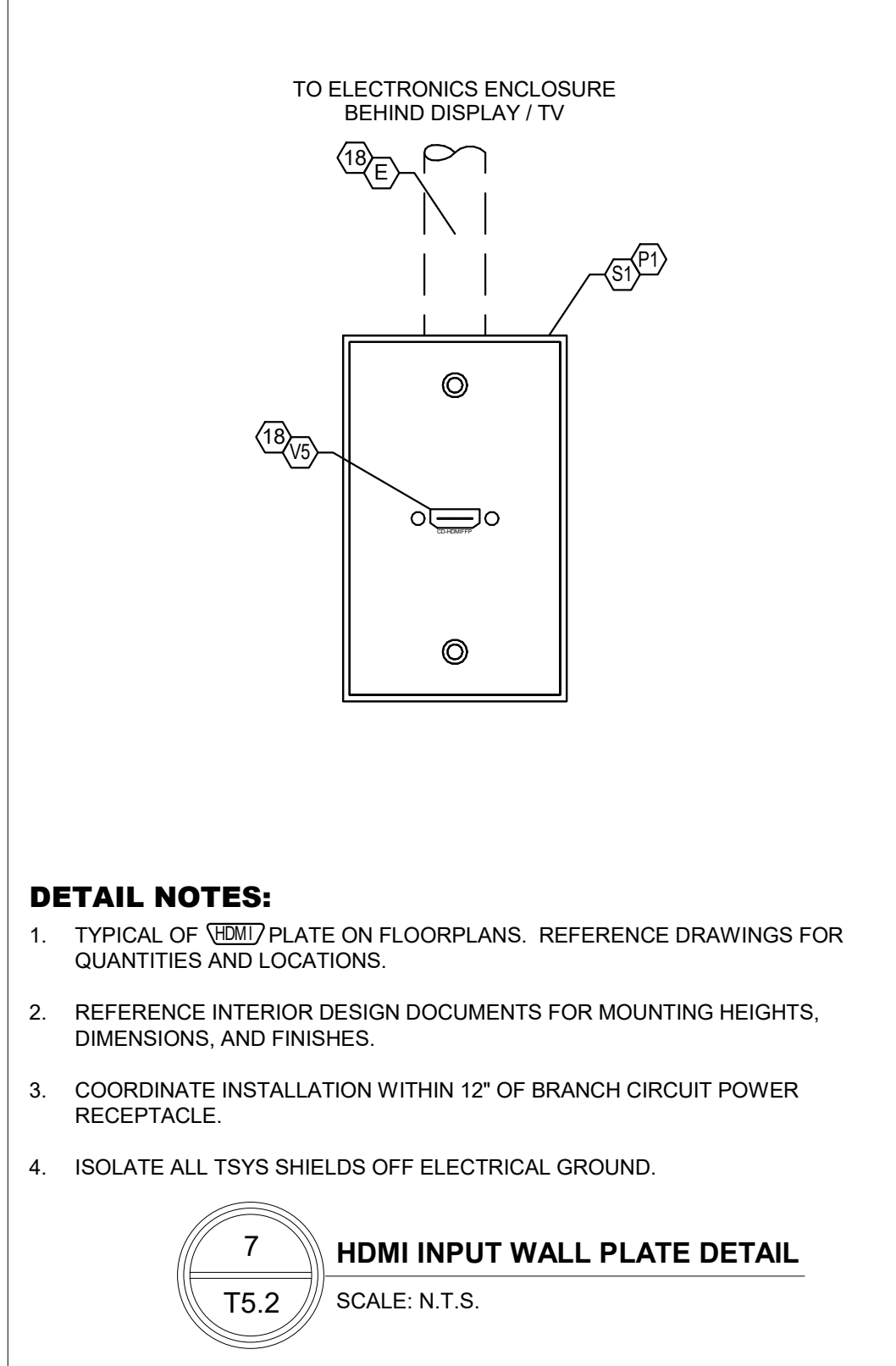
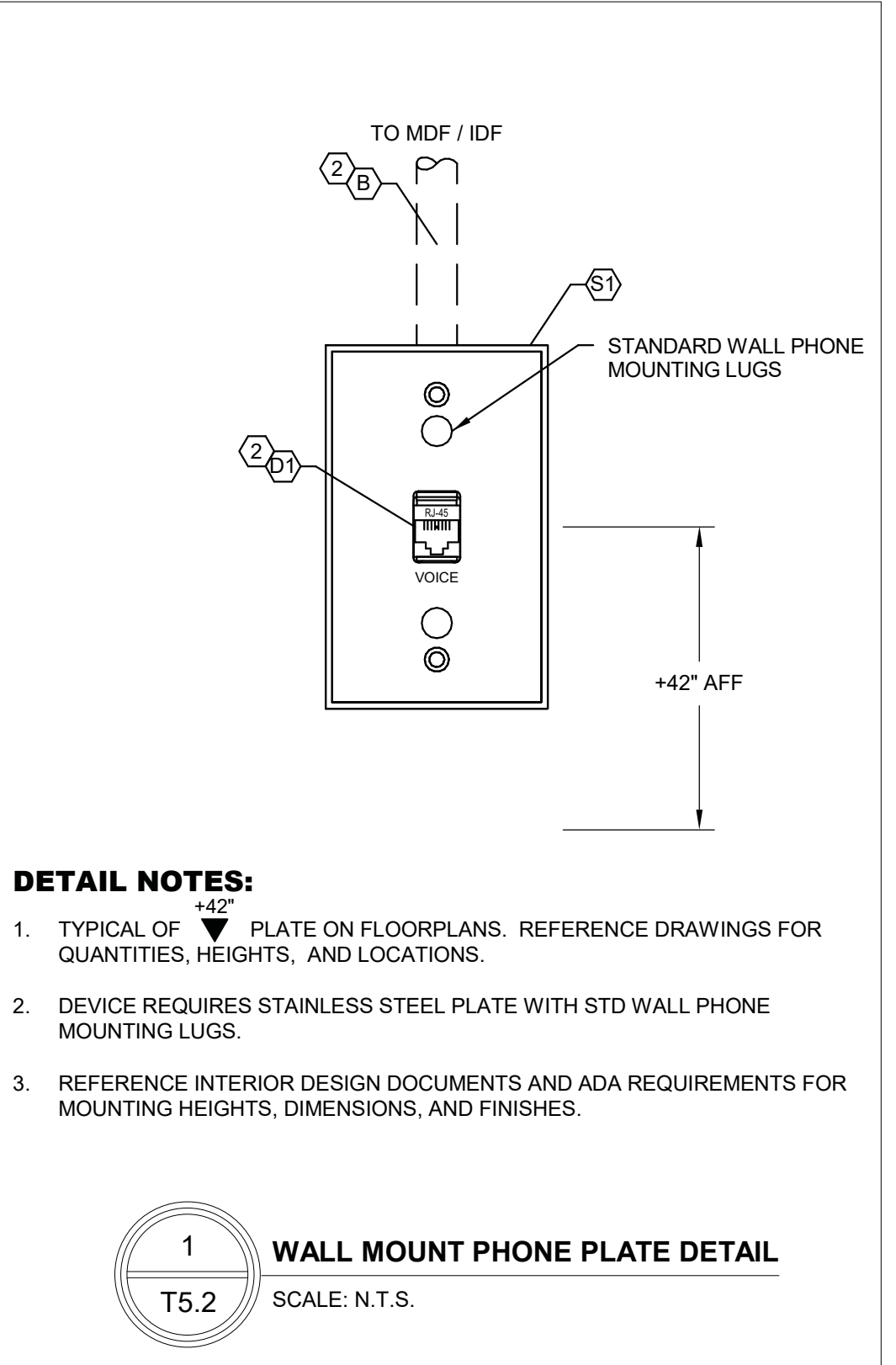
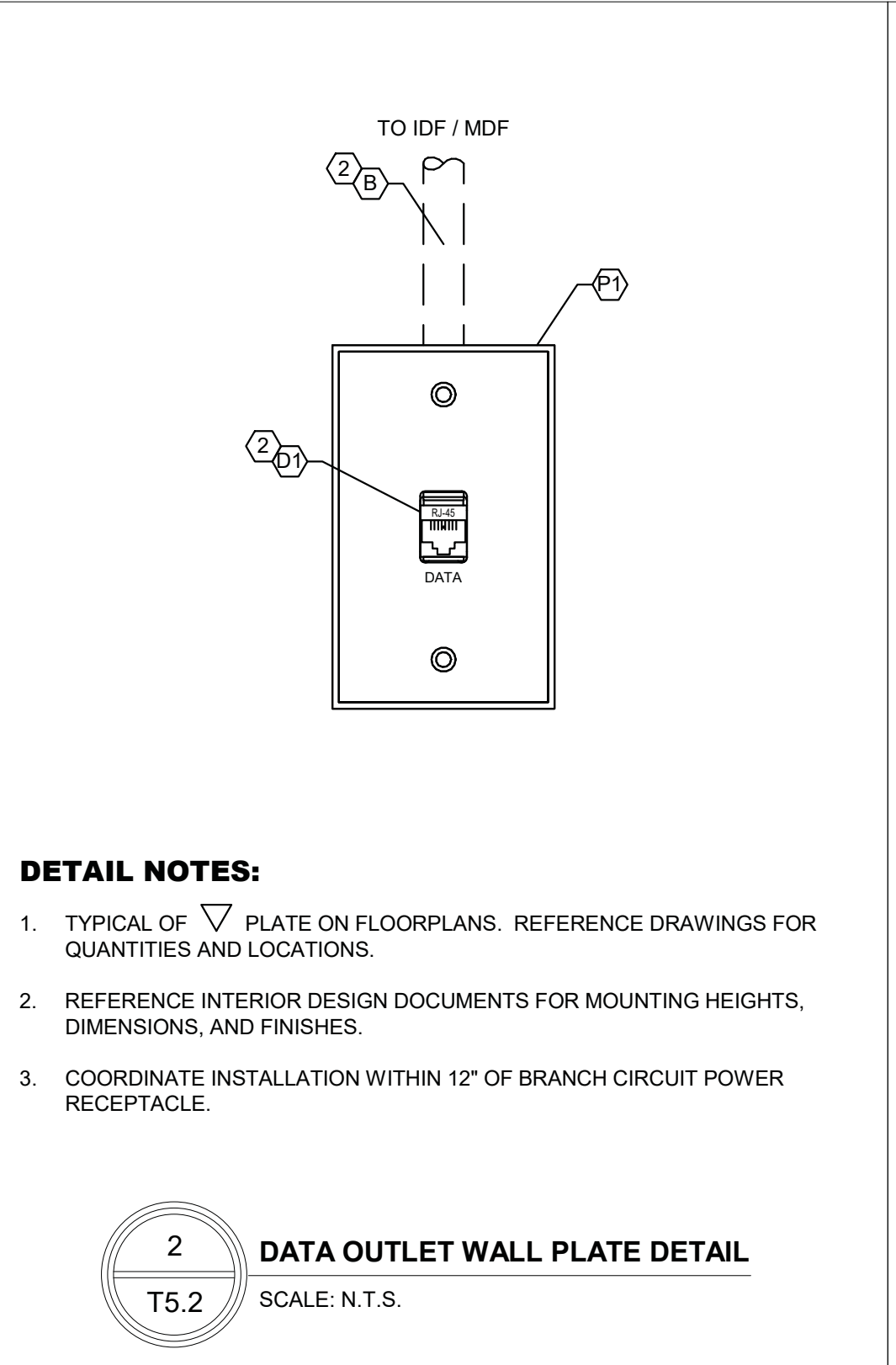
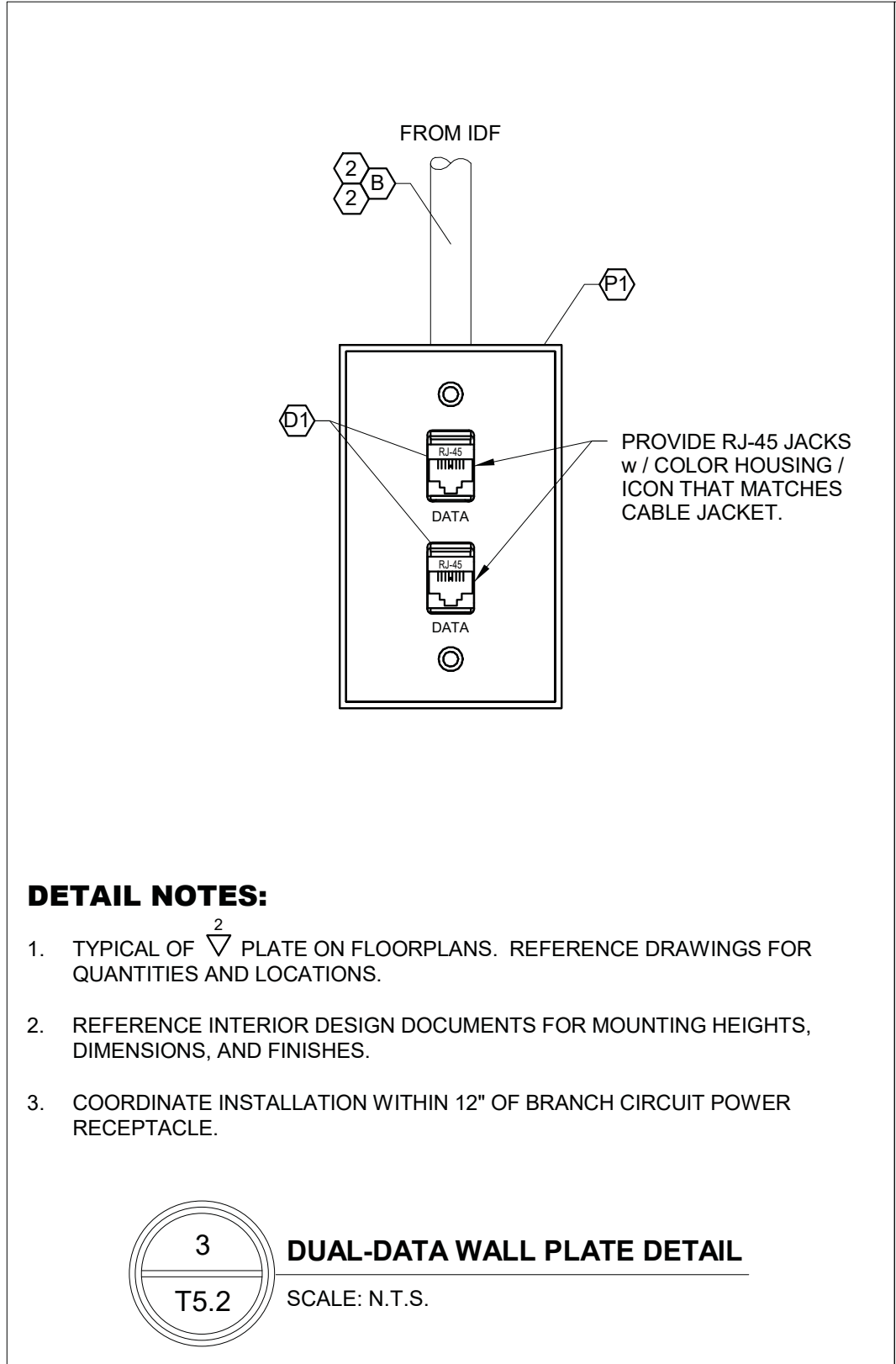
Building

2090 Anvil Block Road
   
 Forest Park, GA 30294

TYPICAL PLATE & CONSTRUCTION DETAILS (TSYS)		DESIGN	DRAWN	CHECKED	LJA	TP
DATE	NO. DESCRIPTION	GS	LJA	TP	SHEET TITLE	
10/26/2021	RELEASED FOR BID				PROJECT	

DATE	NO. DESCRIPTION	GS	LJA	TP	RELEASE
07/08/2021	DATE	A21-006	PROJ. NUMBER	FILE NAME	FILE NUMBER

T5.2



NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION

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L
J
R
P

**Leppard Johnson & Associates, PC**  
 100 CRESCENT CENTRE PARKWAY, SUITE 520  
 TUCKER, GEORGIA 30084 170270-1588  
 © PROJECT NO: 21042 FAX (770)270-9588

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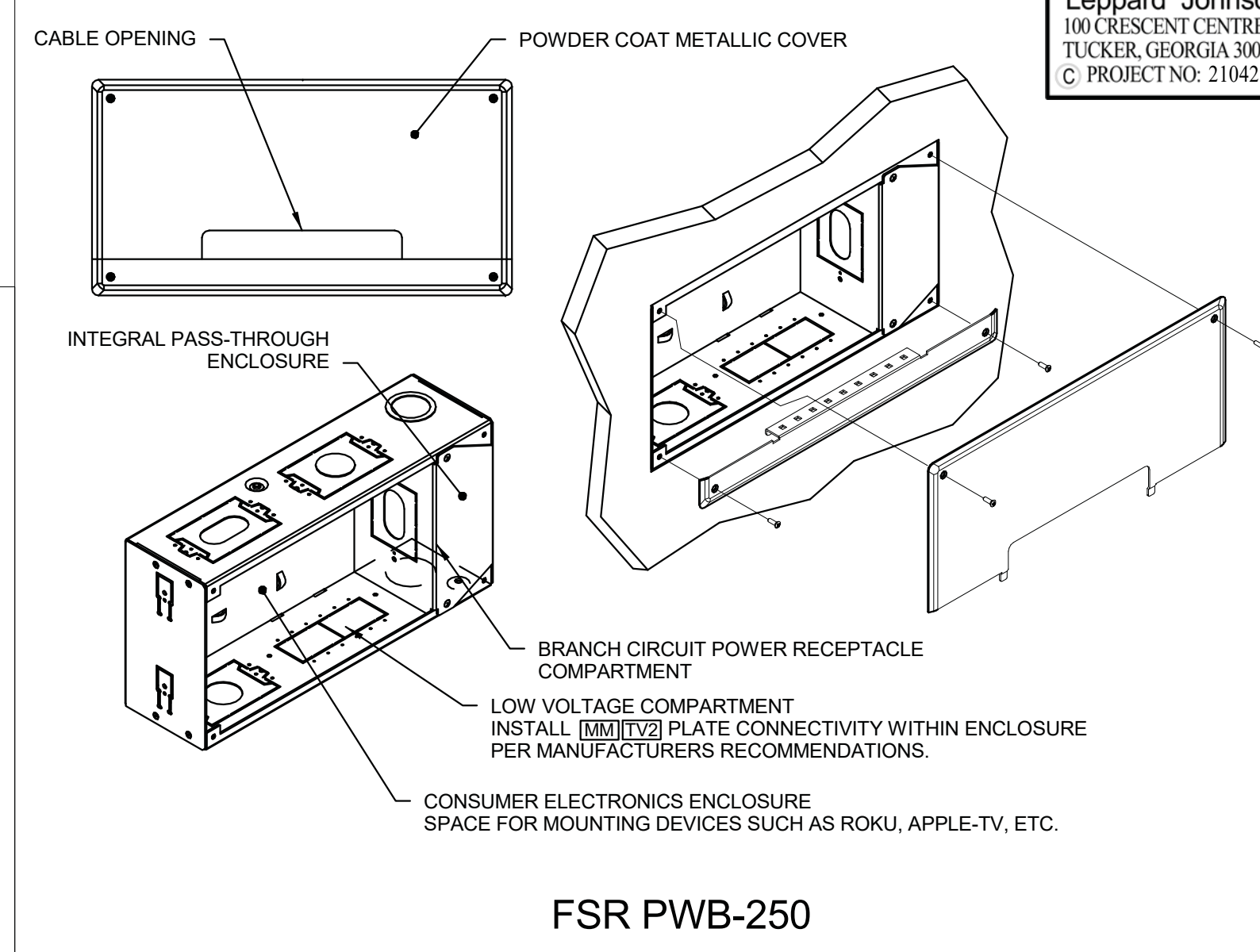
2090 Anvil Block Road  
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TYPICAL PLATE & CONSTRUCTION DETAILS (TSYS)		SHEET TITLE	
DESIGN	GS	DRAWN	LJA
CHECKED	TP	CHECKED	TP

NO.	DESCRIPTION	DATE	RELEASED FOR BID
1		10/26/2021	

DATE	DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER
07/08/2021	10/26/2021	A21-006		

T5.3

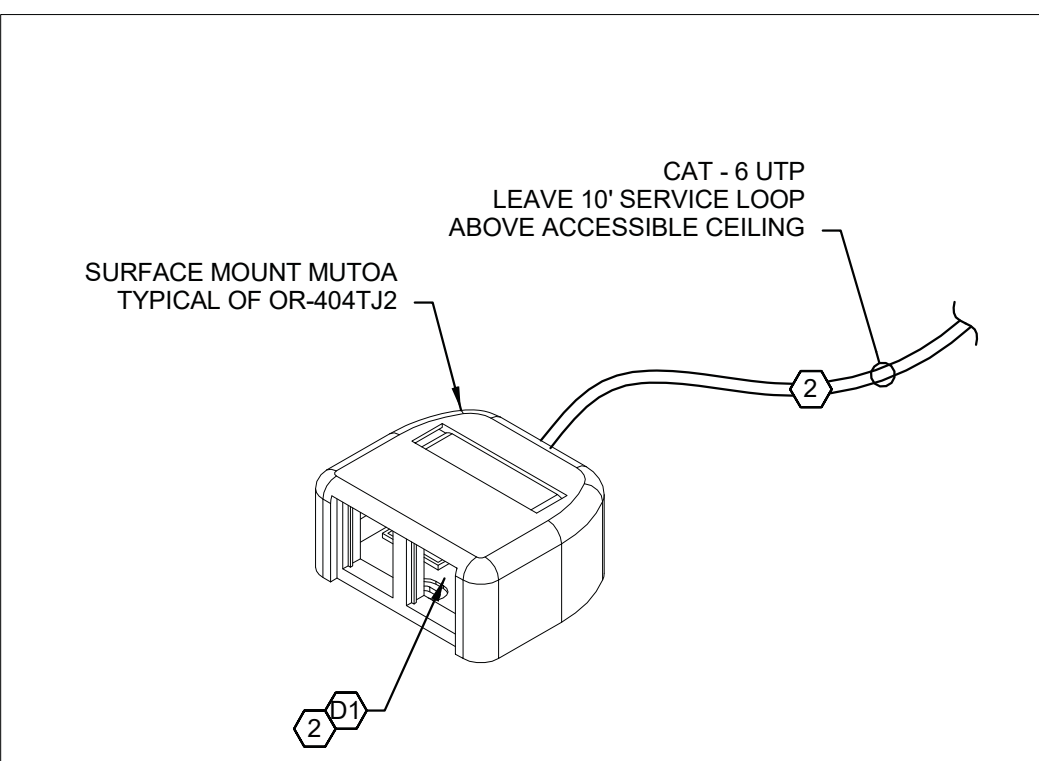


**FSR PWB-250**

**DETAIL NOTES:**

1. REFERENCE DRAWINGS FOR SIZES, QUANTITIES, AND LOCATIONS.
2. REFERENCE INTERIOR DESIGN DOCUMENTS FOR MOUNTING HEIGHTS, DIMENSIONS, AND FINISHES.
3. PROVIDE REQUIRED CONNECTIVITY WITHIN RECESSED FLAT PANEL ELECTRONIC ENCLOSURE. PROVIDE UNIT WITH ALL REQUIRED INSERTS, DIVIDERS, CONNECTOR PLATES, AUXILIARY BACKBOXES, AND TERMINATIONS.
4. WRAP UNITS WITH APPROVED FIRE RATED PUTTY WHEN INSTALLING IN A RATED WALL.
5. COORDINATE DELIVERY OF BACKBOX FROM ELECTRICAL RACEWAY INSTALLER TO MEET PROJECT SCHEDULE REQUIREMENTS. COORDINATE INSTALLATION OF ELECTRICAL BRANCH CIRCUIT OUTLET DEVICES WITH ELECTRICAL INSTALLER.

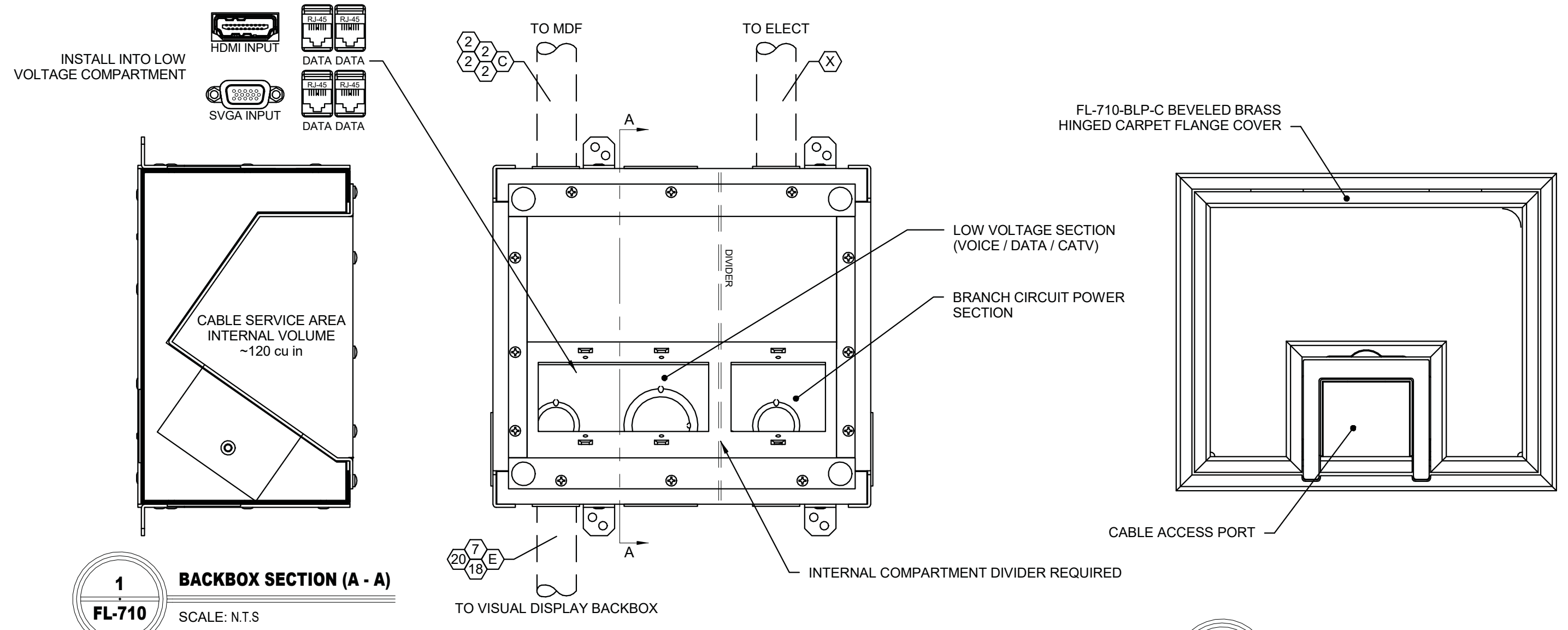
1
**VISUAL DISPLAY RECESSED ELECTRONICS ENCLOSURE**  
 T5.3 SCALE: N.T.S.



**DETAIL NOTES:**

1. TYPICAL OF CABLING TERMINATION AT WAP AND/OR ON INTERIOR, ABOVE CEILING LOCATIONS. NOT TO BE USED FOR EXTERIOR DEVICES. REFERENCE DRAWINGS FOR QUANTITIES AND LOCATIONS.
2. PROVIDE 10 - FOOT CABLE SERVICE LOOP ABOVE ACCESSIBLE CEILING AT WAP LOCATION TO ALLOW FOR POSITIONING.

2
**TYPICAL CAMERA / WAP CABLE TERMINATION**  
 T5.3 SCALE: N.T.S.



1
**BACKBOX SECTION (A - A)**  
 FL-710 SCALE: N.T.S.

2
**BACKBOX PLAN VIEW**  
 FL-710 SCALE: N.T.S.

1
**COVER DETAIL (BRASS / CARPET INSET)**  
 FL-710 SCALE: N.T.S.

TYPICAL OF AV2 IN SHARED CONFERENCE ROOM.

**DETAIL NOTES:**

1. TYPICAL OF CONSOLIDATED POWER / DATA / AV-IO CAST IN CONCRETE FLOOR BOX UNDER CONFERENCE ROOM TABLES. BASIS OF DESIGN PRODUCT FSR FL-710 WITH WITH APPROPRIATE HINGED / TOOL-LESS REMOVABLE COVER.
2. PROVIDE EACH FLOOR BOX WITH POWER OUTLETS REQUIRED BY ELECTRICAL DOCUMENTS. INSTALL FOUR DATA OUTLETS (RJ-45, CAT-6), ONE HDMI AND ONE SVGA VIDEO INPUT INTO LOW VOLTAGE COMPARTMENT. AN FSR DV-WPXT-1CTx IS AN ACCEPTABLE ALTERNATE AV INPUT TO A CUSTOM MANUFACTURED PLATE.
3. COORDINATE RACEWAYS SHOWN WITH ELECTRICAL INSTALLER. SIZE RACEWAYS PER NEC REQUIREMENTS.
4. COORDINATE THE PROCUREMENT AND DELIVERY OF BACKBOXES TO CONTRACTOR BEFORE CONCRETE POUR.
5. SUBMIT INTENDED ALTERNATE PRODUCT FOR APPROVALS.

3
**AV-I/O FLOOR BOX CONSTRUCTION DETAIL (AV2)**  
 T5.3 SCALE: N.T.S.

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**CABLING KEYNOTES:**

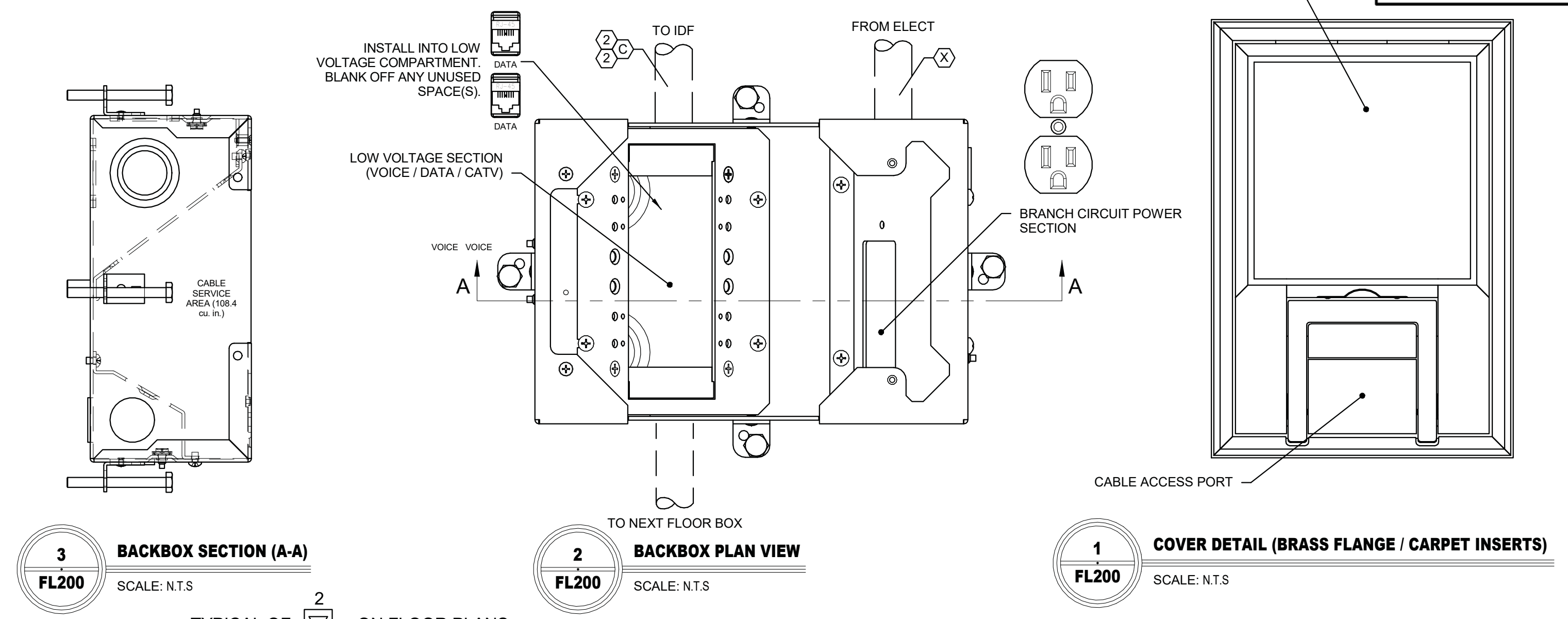
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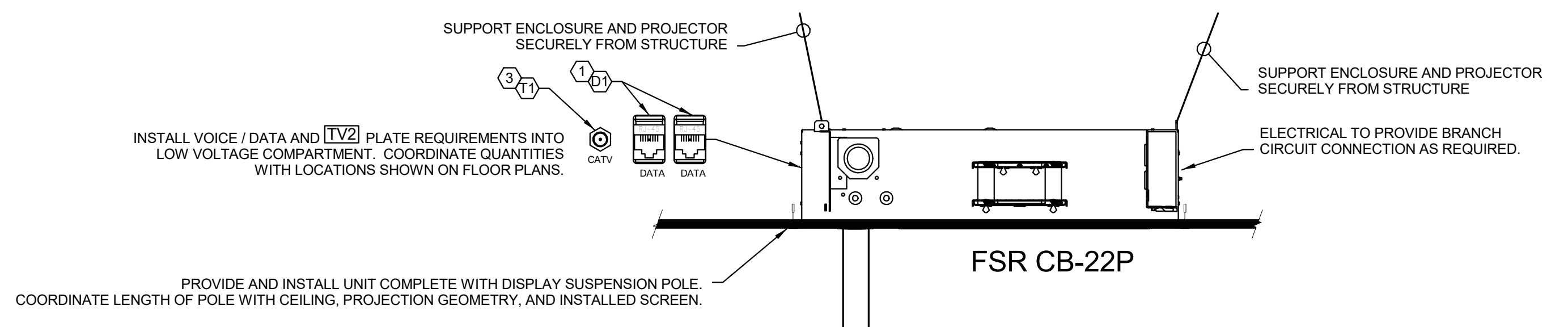
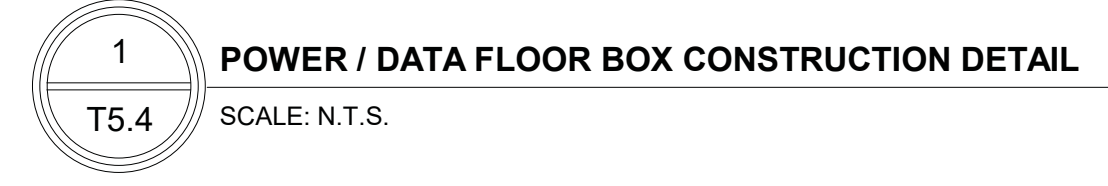
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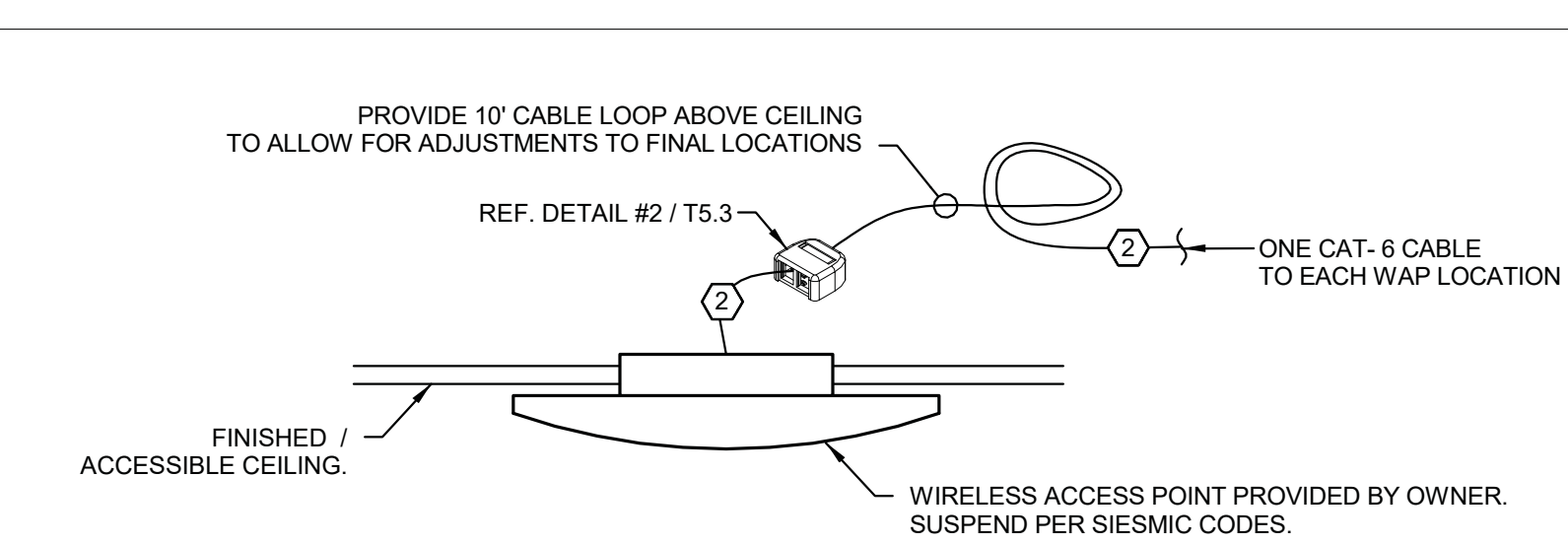

  
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 TUCKER, GEORGIA 30084 (770)271-1588  
 C. PROJECT NO: 21042 FAX (770)270-9588



- DETAIL NOTES:**
- TYPICAL OF CONSOLIDATED POWER / DATA CAST IN CONCRETE FLOOR BOX BENEATH DAYROOM / CONFERENCE ROOM FURNITURE. BASIS OF DESIGN PRODUCT FSR FL-200-4 WITH APPROPRIATE HINGED / TOOL-LESS REMOVABLE COVER.
  - PROVIDE EACH FLOOR BOX WITH POWER OUTLETS REQUIRED BY ELECTRICAL DOCUMENTS, AND TWO DATA OUTLETS (RJ-45, CAT-6).
  - IT IS ACCEPTABLE TO CONNECT MULTIPLE FLOOR BOXES TOGETHER FOR COMMON HOMERUN FROM ELECT / IDF. SIZE RACEWAYS PER NEC REQUIREMENTS.
  - COORDINATE THE PROCUREMENT AND DELIVERY OF BACKBOXES TO CONTRACTOR BEFORE CONCRETE POUR.
  - SUBMIT INTENDED ALTERNATE PRODUCT FOR APPROVAL.



- DETAIL NOTES:**
- TYPICAL OF FSR CB-22P CEILING DISPLAY SUPPORT ENCLOSURE. PROVIDE WITH DISPLAY SUPPORT POLE, DISPLAY MOUNT, INTERNAL CABLING TERMINATIONS, CONNECTOR PANELS, AND BRANCH CIRCUIT POWER OUTLETS. SUPPORT FROM STRUCTURE COMPLIANT WITH LOCAL SEISMIC CODES. COORDINATE WITH THE WORK OF OTHERS AS DETAILED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
  - PROVIDE EACH CEILING MOUNT PROJECTOR SUPPORT ENCLOSURE WITH BRANCH CIRCUIT POWER AS REQUIRED IN THE ELECTRICAL DRAWINGS. PROVIDE DATA OUTLETS (RJ-45, CAT-6) AND COAXIAL CABLING AS INDICATED ON FLOOR PLAN DRAWINGS.
  - DELIVER ENCLOSURE TO CONTRACTOR FOR INSTALLATION BEFORE THE INSTALLATION OF CEILING SUPPORT STRUCTURE / MEMBERS.
  - SUBMIT ALTERNATE PRODUCT(S) FOR APPROVAL.



- DETAIL NOTES:**
- INSTALL CABLING TO NEAREST MDF / IDF VIA CABLE PATHWAY OR J - HOOKS.
  - PROVIDE A 10FT. CABLE LOOP ABOVE CEILING TO ALLOW FOR ADJUSTMENTS TO FINAL LOCATION(S).
  - REFERENCE DETAIL #9 / T6.2 FOR ADDITIONAL REQUIREMENTS.

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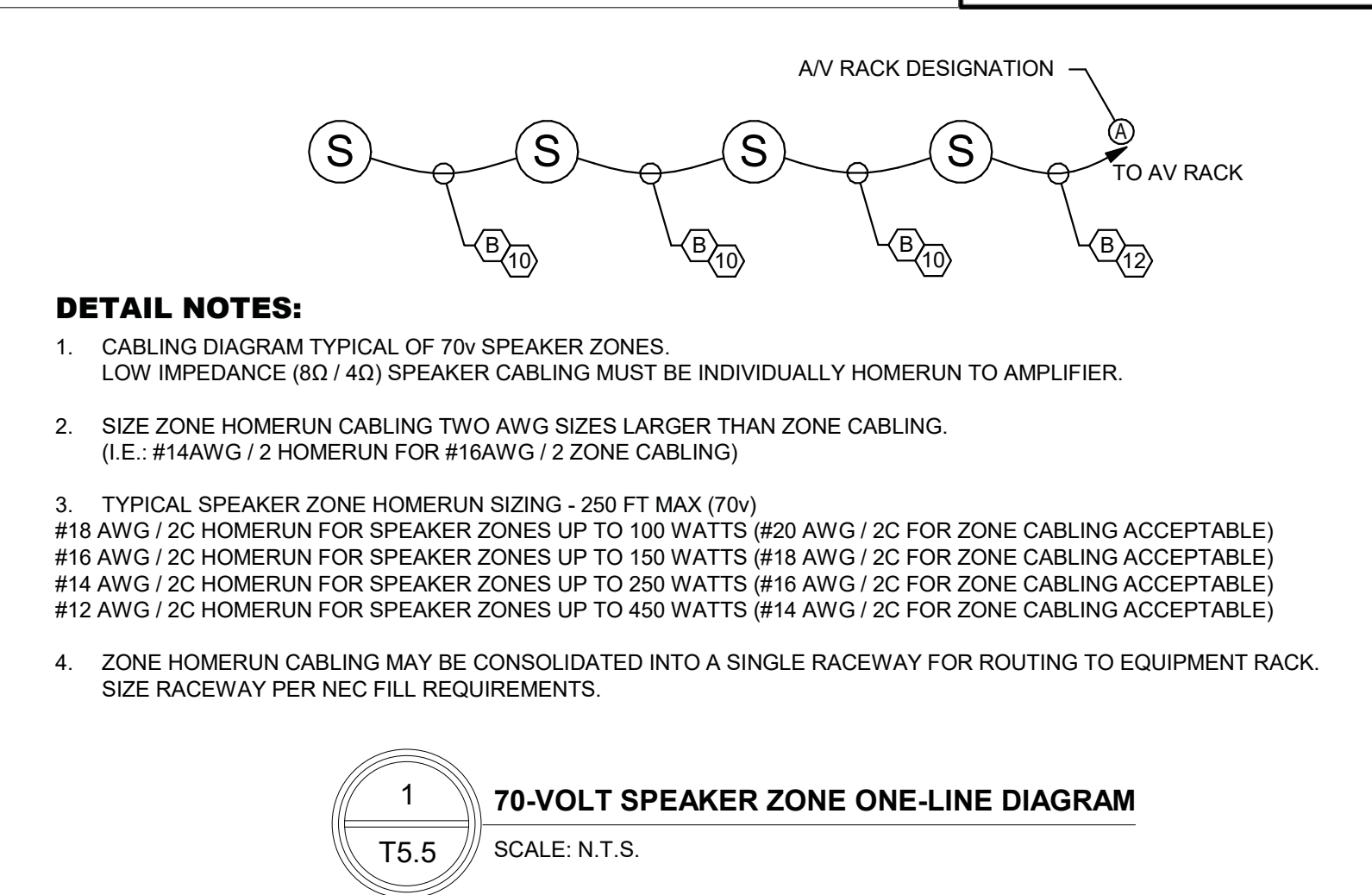
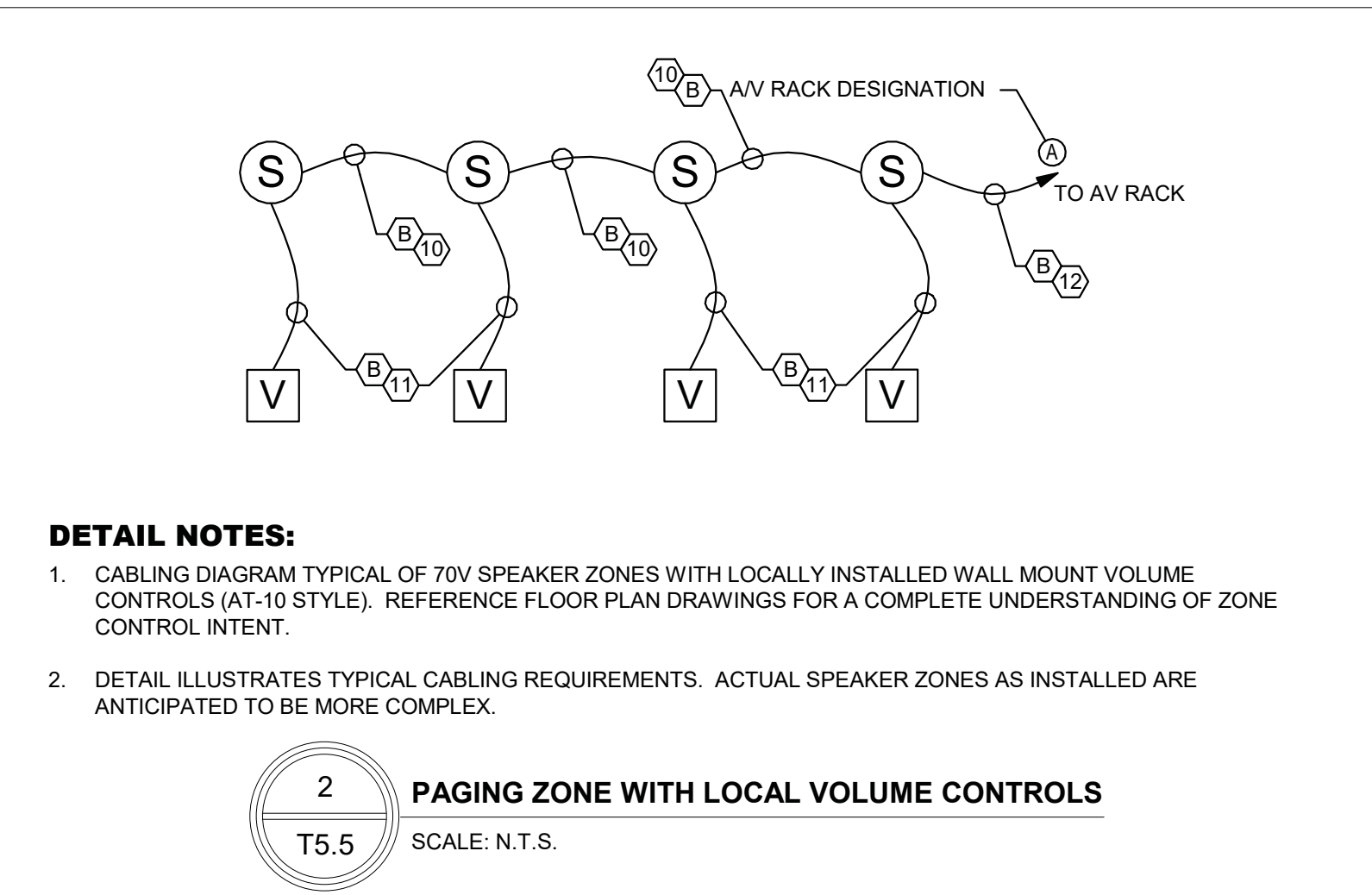
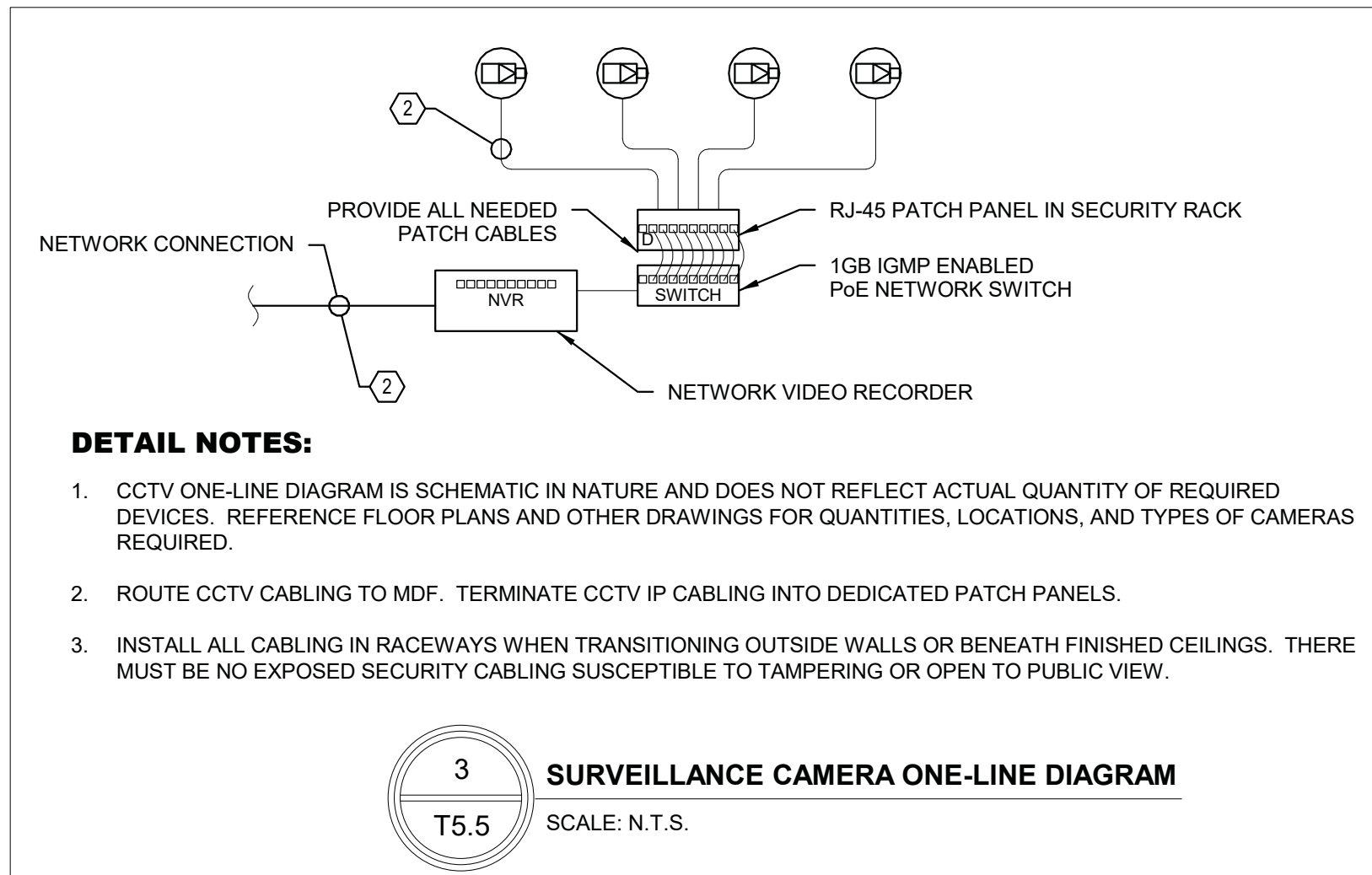
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		10/26/2021	GS	LJA	TP	

T5.4



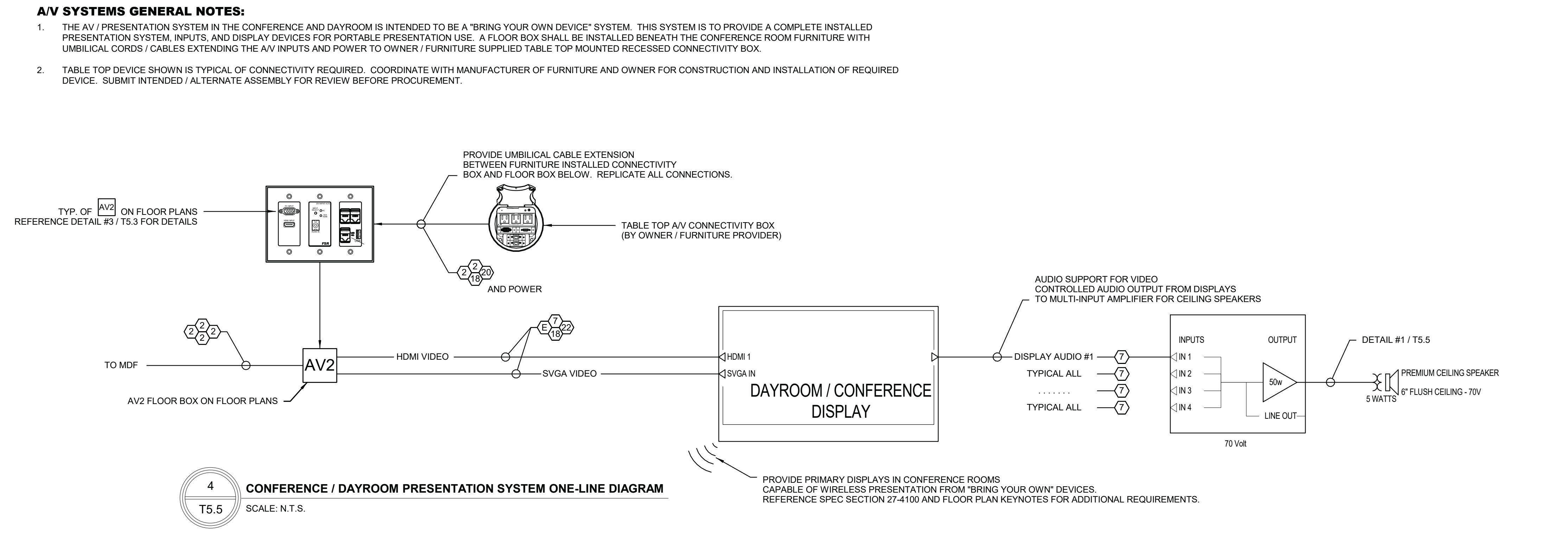
Leppard Johnson & Associates, PC  
 100 CRESCENT CENTRE PARKWAY, SUITE 520  
 TUCKER, GEORGIA 30084 170270-1588  
 C. PROJECT NO: 21042 FAX (770)270-9588

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- RACEWAY KEYNOTES (NEMA):**  
 (3/4" MINIMUM CONDUIT STUBS REQUIRED FROM WALL OUTLET LOCATIONS TO ACCESSIBLE CEILINGS)
- (A) 16mm (1/2") RACEWAY
  - (B) 21mm (3/4") RACEWAY
  - (C) 27mm (1") RACEWAY
  - (D) 35mm (1-1/4") RACEWAY
  - (E) 41mm (1-1/2") RACEWAY
  - (F) 53mm (2") RACEWAY
  - (G) 78mm (3") RACEWAY
  - (H) 103mm (4") RACEWAY
  - (X) DIVISION 26 - ELECTRICAL

- CABLING KEYNOTES:**
- (1) #24 AWG / 4 PAIR, CAT-5e, UTP (0.195" O.D.)
  - (2) #23 AWG / 4 PAIR, CAT-6, UTP (0.235" O.D.)
  - (3) RG-6 / U COAX (0.285" O.D.)
  - (4) RG-11 / U COAX (0.410" O.D.) (BY COMCAST)
  - (5) #18 AWG / 4C / SH-O (0.160" O.D.) (PIR / MOTION)
  - (6) #20 AWG / 8C / SH-O (0.256" O.D.)
  - (7) #20 AWG / 2PR / SH-I (RS-232 / 485 / STEREO AUDIO) (0.225" O.D.)
  - (8) #20 AWG / 6C / SH-O (WIEGAND) (0.328" O.D.)
  - (9) #20 AWG / 2C / TP (0.145" O.D.)
  - (10) #18 AWG / 2C / TP (0.155" O.D.)
  - (11) #18 AWG / 3C (0.195" O.D.)
  - (12) #16 AWG / 2C / TP (0.189" O.D.)
  - (13) #14 AWG / 2C / TP (0.235" O.D.)
  - (14) #12 AWG / 2C / TP (0.270" O.D.)
  - (15) GEPCO / AXLINK / CRESNET (#22AWG / 2C / TP / SH + #18AWG / 2C / TP) (0.281" O.D.)
  - (16) CRESNET-QM-P (CRESTNET + LO-SKEW CATE-6 UTP) (SIAMESE 0.234" O.D.)
  - (17) CRESTRON DM-CBL-P/NP (DIGITAL-MEDIA, #24AWD / 4P / SH-O, CAT-6, #22AWG / 2C / TP / SH, #18AWG / 2C / TP)
  - (18) HDMI / COMPOSITE / COMPONENT / S-VIDEO CABLE(S)
  - (19) RGB5-MINI-75Ω-COAX (0.560" O.D.)
  - (20) FSR HDMI DIGITAL RIBBON CABLE (DR-PCB-HxxM)
  - (21) AREA OF RESCUE INTERCOM: #18 AWG / 2C, CIC UL 2196 CERTIFIED
  - (22) CUSTOM CABLE BY EQUIPMENT / DEVICE MANUFACTURER
  - (23) NOT USED
  - (24) #22 AWG TP / SH-O (MIC / LINE INPUT CABLE) (0.150" O.D.)
  - (25) HIGH-STRENGTH PULL STRING (EACH EMPTY RACEWAY)



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ONE-LINE DIAGRAMS (TSYS)		SHEET TITLE	
DESIGN	GS	DRAWN	LJA
CHECKED	TP	CHECKED	TP

DATE	NO.	DESCRIPTION
10/26/2021		RELEASED FOR BID

07/08/2021	A21-006		
DATE	PROJ. NUMBER	FILE NAME	FILE NUMBER

**T5.5**

**CABLING KEYNOTES:**

- 1 #24 AWG / 4 PAIR, CAT-5e, UTP (0.195" O.D.)
- 2 #23 AWG / 4 PAIR, CAT-6, UTP (0.235" O.D.)
- 3 RG-6 / U COAX (0.285" O.D.)
- 4 RG-11 / U COAX (0.410" O.D.) (BY COMCAST)
- 5 #18 AWG / 4C / SH-O (0.160" O.D.) (PIR / MOTION)
- 6 #20 AWG / 8C / SH-O (0.256" O.D.)
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- 8 #20 AWG / 6C / SH-O (WIEGAND) (0.328" O.D.)
- 9 #20 AWG / 2C / TP (0.145" O.D.)
- 10 #18 AWG / 2C / TP (0.155" O.D.)
- 11 #18 AWG / 3C (0.195" O.D.)
- 12 #16 AWG / 2C / TP (0.189" O.D.)
- 13 #14 AWG / 2C / TP (0.235" O.D.)
- 14 #12 AWG / 2C / TP (0.270" O.D.)
- 15 GEPCO / AXLINK / CRESNET (#22AWG / 2C / TP / SH + #18AWG / 2C / TP) (0.281" O.D.)
- 16 CRESCAT-QM-P (CRESTNET + LO-SKEW CATE-6 UTP) (SIAMESE 0.234" O.D.)
- 17 CRESTRON DM-CBL-P/NP (DIGITAL-MEDIA, #24AWD / 4P / SH-O, CAT-6, #22AWG / 2C / TP / SH, #18AWG / 2C / TP)
- 18 HDMI / COMPOSITE / COMPONENT / S-VIDEO CABLE(S)
- 19 RGB5-MINI-75Ω-COAX (0.560" O.D.)
- 20 FSR HDMI DIGITAL RIBBON CABLE (DR-PCB-HxxM)
- 21 AREA OF RESCUE INTERCOM: #18 AWG / 2C, CIC UL 2196 CERTIFIED
- 22 CUSTOM CABLE BY EQUIPMENT / DEVICE MANUFACTURER
- 23 NOT USED
- 24 #22 AWG TP / SH-O (MIC / LINE INPUT CABLE) (0.150" O.D.)
- 25 HIGH-STRENGTH PULL STRING (EACH EMPTY RACEWAY)

**L J & P**  
**Leppard Johnson & Associates, PC**  
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 C PROJECT NO: 21042 FAX (770)270-9588

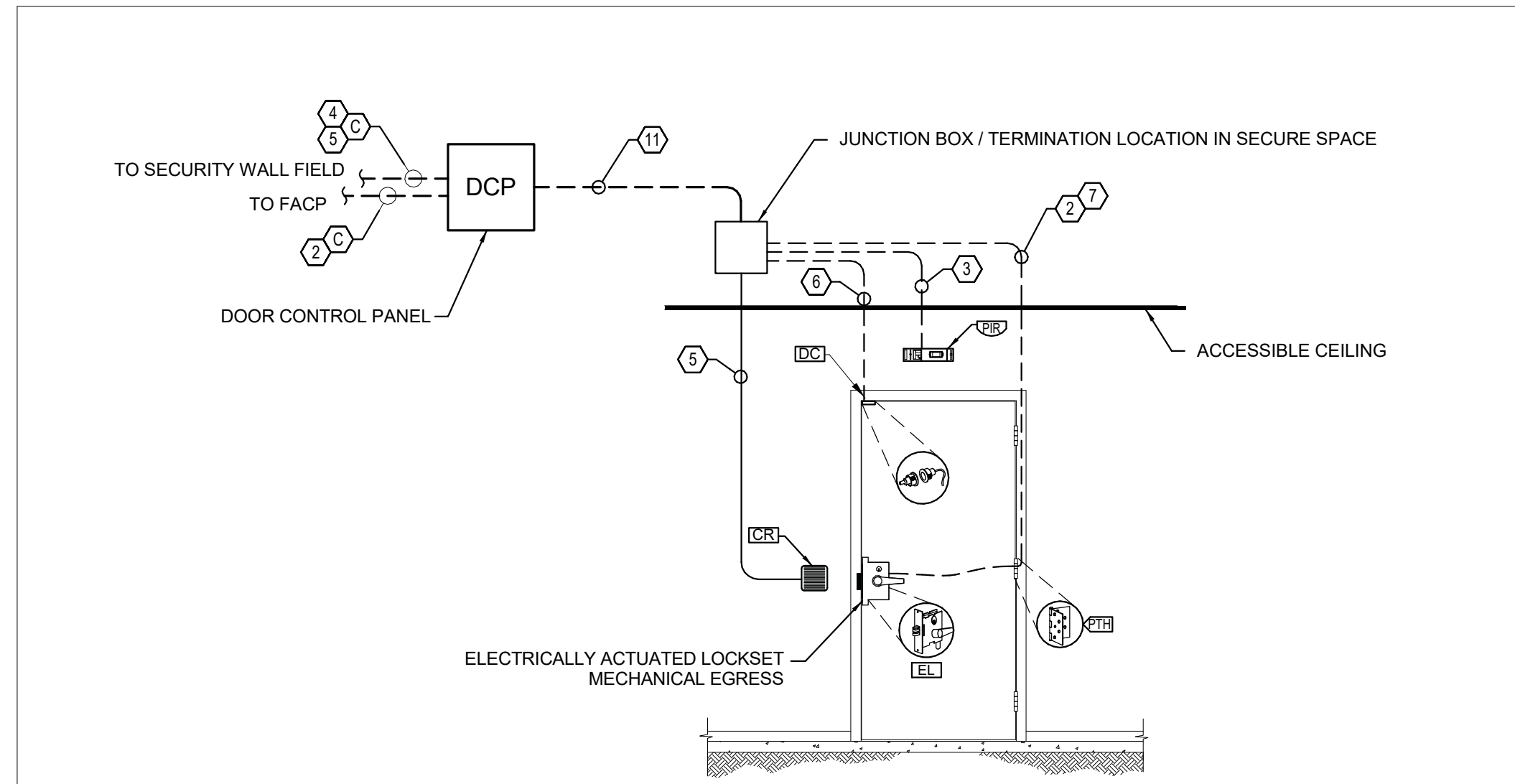
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Location		Camera Type		Lens		Housing		Features				Notes				
CCTV #	Sheet	Space	Door View	Type*	Signal	Resolution	Field of View (H)	Lens**	Mount	Housing Rating	H/B	VR	WDR	VA	IR	D
C1	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C2	T2.2	EXTERIOR	(145B)	CPD-06	IP	3.1MP	60°	Manual Varifocal	Wall/Pendant	IP-66						C
C3	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C4	T2.2	EXTERIOR	(139-C/J)	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C5	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C6	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C7	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	95°	Manual Varifocal	Wall/Pendant	IP-66						C
C8	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	120°	Manual Varifocal	Wall/Pendant	IP-66						C
C9	T2.2	Vestibule [101]	(101)	CPD-05	IP	2.1MP	60°	Manual Varifocal	Ceiling	IP-66						C
C10	T2.2	EXTERIOR	(139-A/G)	CPD-06	IP	3.1MP	95°	Manual Varifocal	Wall/Pendant	IP-66						C
C11	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	120°	Manual Varifocal	Wall/Pendant	IP-66						C
C12	T2.2	EXTERIOR	(146)	CPD-05	IP	2.1MP	60°	Manual Varifocal	Wall/Pendant	IP-66						C
C13	T2.2	EXTERIOR	-n/a-	CPD-06	IP	3.1MP	140°	Manual Varifocal	Wall/Pendant	IP-66						C
C14	T2.2	Patrol Lobby [146]	(148 / 147A)	CPD-05	IP	2.1MP	95°	Manual Varifocal	Ceiling	IP-66						C
C15	T2.2	Patrol [149]	Window	CPD-05	IP	2.1MP	60°	Manual Varifocal	Ceiling	IP-66						C

**ABBREVIATIONS LEGEND:**  
 H/B - Heater/Blower/Environmentally Sealed Enclosure  
 VR - Vandal Resistant  
 WDR - Wide Dynamic Range (w/IR corrected lens)  
 VA - Provide with Video Analytics  
 IR - Integral/Supplementary IR Illumination  
 MP - MegaPixel (resolution)  
 TVL - TV Lines (horizontal line resolution)  
 D - Dome color (S = smoked, G = grey/50%, C = clear)

● - Indicates required feature  
 \* Reference Specification Section 28-2300, Part 2 for alphanumeric designation information. (i.e., CADE 02)  
 \*\* Lens focal length(s) given as a guide only. Verify focal length of supplied lens provides indicated horizontal field of view when mounted on camera, at intended camera mounting location.  
 \*\*\* Mount camera with clear view beneath precast concrete "T" beam structure.

**1 SURVEILLANCE CAMERA SCHEDULE**  
 SCALE: N.T.S.



- DETAIL NOTES:**
1. DETAIL ILLUSTRATES TYPICAL RACEWAY, CABLING, AND INSTALLATION REQUIREMENTS FOR A SINGLE DOOR WITH CARD READER, DOOR CONTACTS, AND PIR MOTION DETECTOR / INFRARED REQUEST-TO-EXIT (REX).
  2. COORDINATE CABLING PATHWAY THROUGH DOOR WITH DOOR MANUFACTURER AND INSTALLER.
  3. INSTALL PIR / MOTION DETECTOR ON WALL 6" ABOVE DOOR.

**2 TYPICAL ACCESS CONTROL / DOOR LOCKING REQUIREMENTS**  
 SCALE: N.T.S.

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SECURITY SCHEDULES & ELEVATIONS (TSYS)  
 DESIGN: GS  
 DRAWN: LJA  
 CHECKED: TP  
 SHEET TITLE

NO. DESCRIPTION  
 10/26/2021 RELEASED FOR BID  
 RELEASE

07/08/2021 DATE  
 A21-006 PROJ. NUMBER  
 FILE NAME  
 FILE NUMBER  
**T6.1**