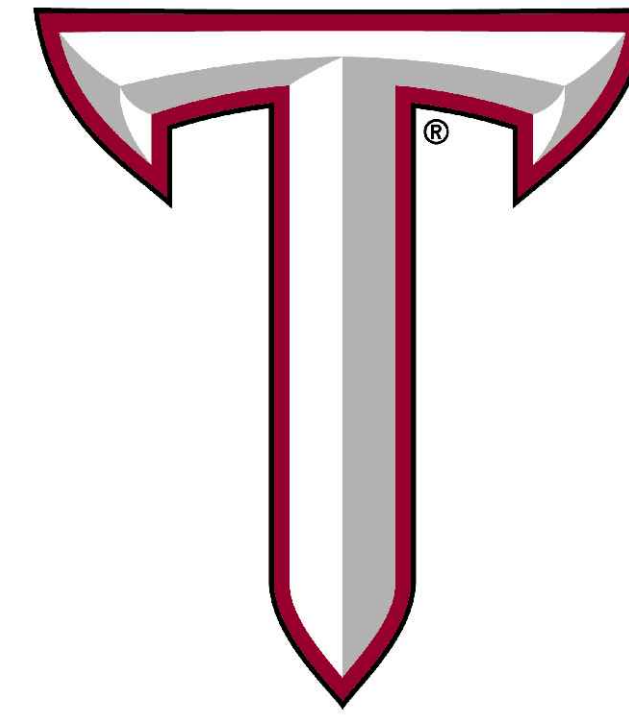
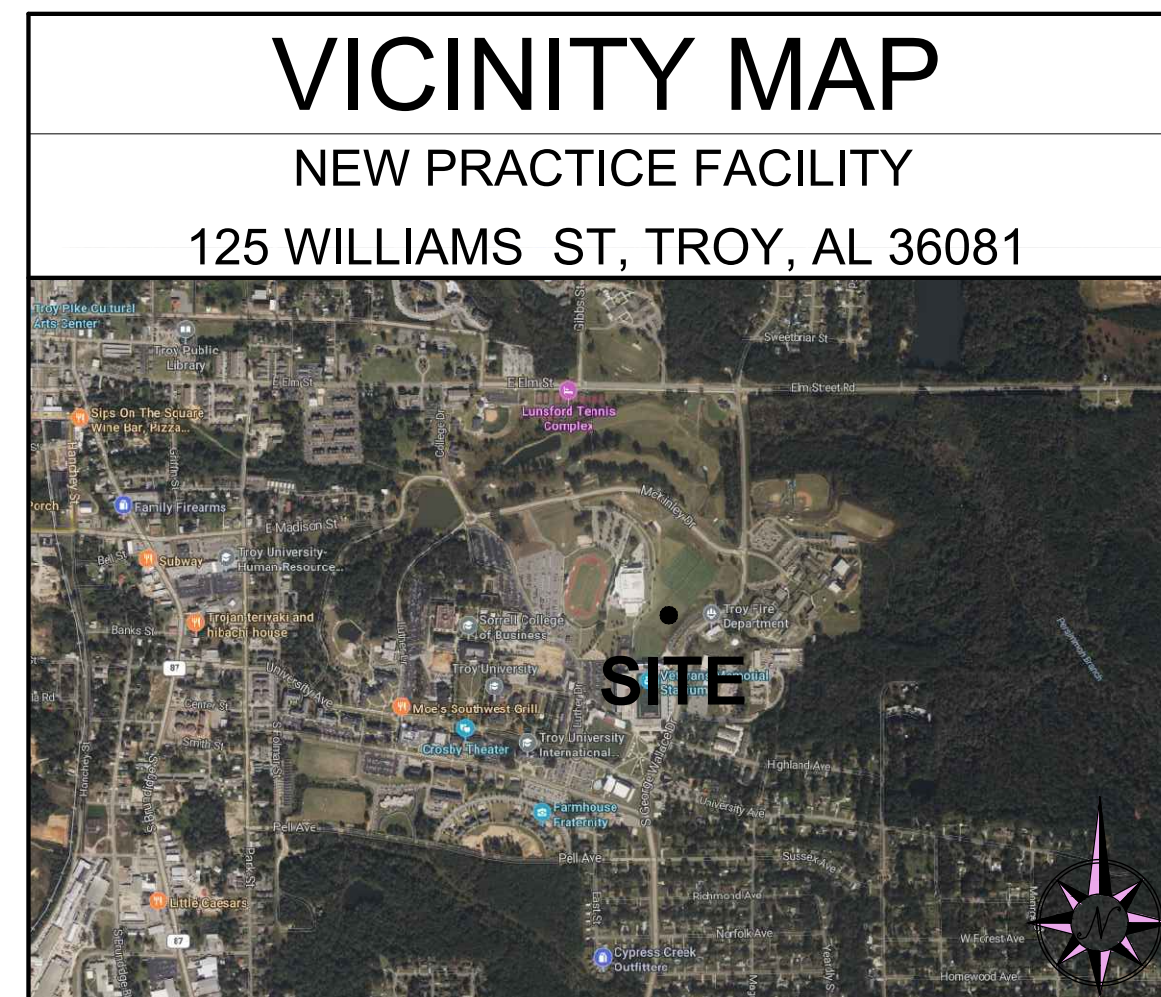


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TROY, ALABAMA



CONTACTS		
OWNER Troy University 125 Williams St. Troy, Alabama 36081 Phone: (334) 566.5889	CIVIL Southern Engineering Solutions 201 Troy St. Andalusia, Alabama 36420 Phone: (334) 222.1849	ELECTRICAL Gunn and Associates 3102 Highway 14 Millbrook, AL 36054 Phone: (334) 285.1273
ARCHITECTURAL Mckee and Associates 631 South Hull Street Montgomery, Alabama 36104 Phone: (334) 834.9933	STRUCTURAL Gordon Davis P.O. Box 241371 Montgomery, Alabama 36124 Phone: (334) 213.4020	PLUMBING and MECHANICAL Zgouvas, Eiring and Associates 800 South McDonough Street Montgomery, Alabama 36104 Phone: (334) 263.4406

INDEX TO DRAWINGS			
GENERAL	S2.5	ROOF FRAMING DETAILS	INTERIOR TREATMENT
G0.1	TITLE SHEET AND INDEX TO DRAWINGS	S2.6	CAMERA PLATFORM
CIVIL			N/A
C1.0	EXISTING SITE CONDITIONS	ARCHITECTURAL	FIRE PROTECTION
C2.0	SITE DEMOLITION PLANS	A0.1	ARCHITECTURAL SITE PLAN
C3.0	SITE LAYOUT	A1.1	OVERALL FLOOR PLAN
C3.1	FIRE ACCESS ROUTE	A1.10	ENLARGED PLAN (ALTERNATE)
C4.0	SITE GRADING PLAN	A3.1	ROOF PLAN
C5.0	SITE STORM DRAINAGE PLAN	A4.1	EXTERIOR ELEVATIONS (BASE BID)
C6.0	SITE UTILITIES PLAN	A4.2	EXTERIOR ELEVATIONS (ALTERNATE)
C7.0	EROSION CONTROL PLAN	A5.1	BUILDING SECTIONS
C8.0	CIVIL DETAILS	A6.1	WALL SECTIONS
C8.1	CIVIL DETAILS	A6.2	WALL SECTIONS
C8.2	CIVIL DETAILS	A9.1	MISCELLANOUS DETAILS
C9.0	SUMMARY OF QUANTITIES		
STRUCTURAL			PLUMBING
S1.1	FOUNDATION PLAN		P1
S1.2	ROOF FRAMING PLAN		PLBG. SCHEDULES, DETAILS, AND NOTES
S1.3	TOILET BLDG FOUNDATION PLAN & ROOF FRAMING PLAN		P2
S2.0	NOTES, SCHEDULES & RETAINING WALL		PLBG. FLOOR PLANS
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S2.2	ROOF FRAMING DETAILS		PLBG. FLOOR PLANS - ALTERNATE
S2.3	ROOF FRAMING DETAILS		
S2.4	RIGID FRAME		
			ELECTRICAL
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			HVAC FLOOR PLAN, SCHEDULES, & DETAILS
			E0.1
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			FLOOR PLAN - LIGHTING
			E2.2
			LIGHTING CONTROL DETAILS, AND NOTES
			E3.1
			FLOOR PLAN - POWER
			E4.1
			LIGHTNING PROTECTION
			E5.1
			LIGHTING SCHEDULE, DETAILS, & NOTES
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			POWER RISER DIAGRAMS, DETAILS, & NOTES
			E6.2
			GROUNDING DETAILS & NOTES



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SHEET TITLE : COVER SHEET AND INDEX TO DRAWINGS

MCKEE JOB # : 22.339

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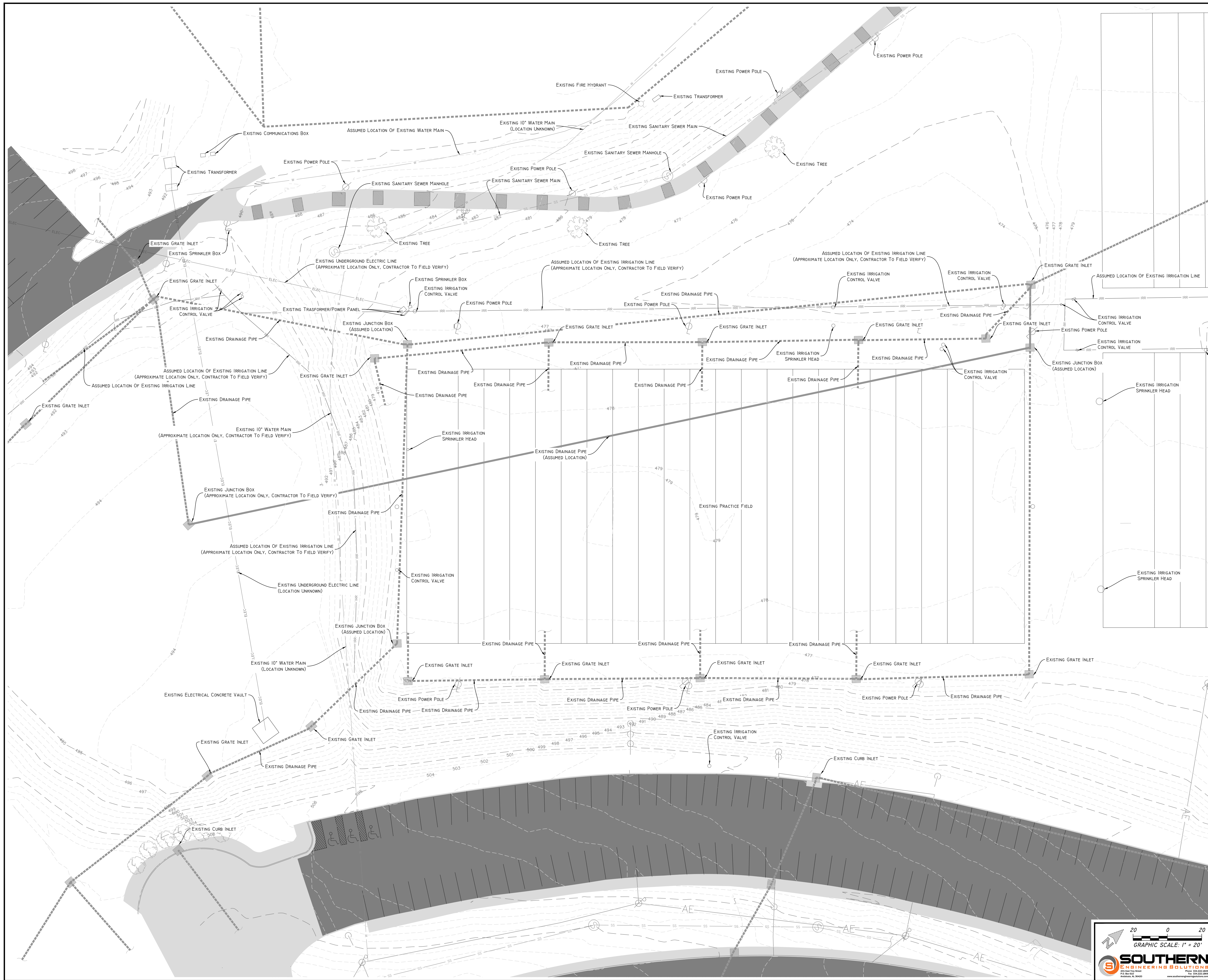
DATE : 10.24.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **G0.1**



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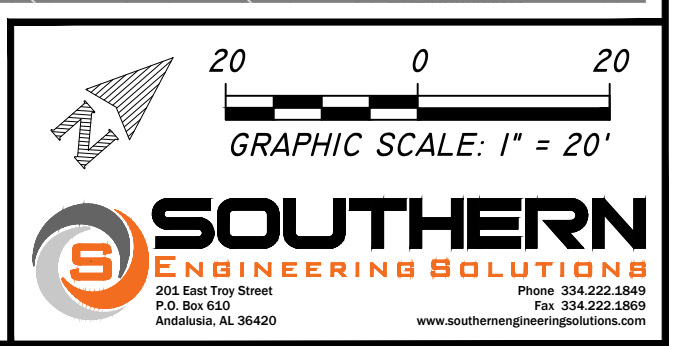
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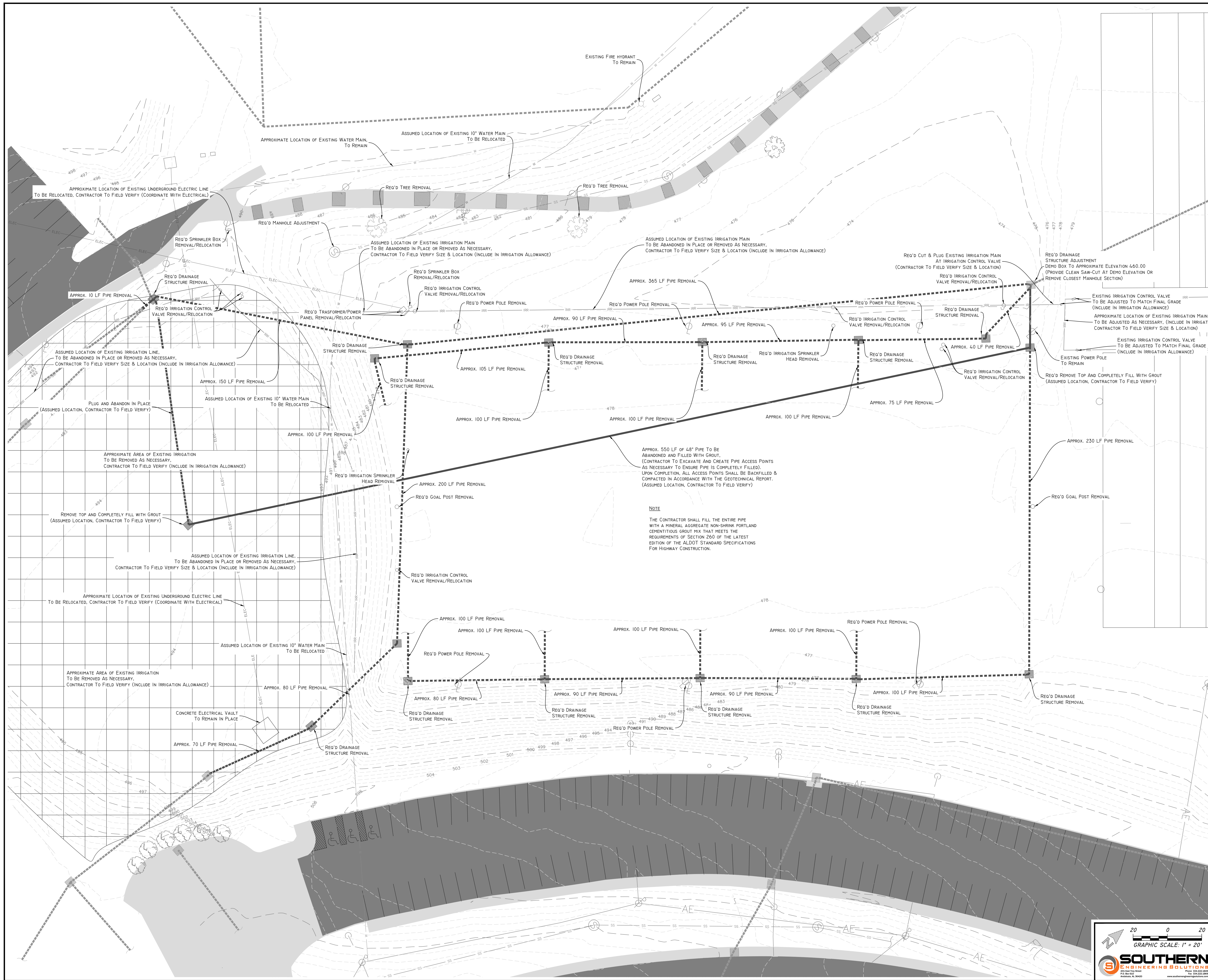
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MCKEE JOB # : 22.339

DRAWN BY : JAC
DATE : 10.21.24
REVISED DATE : *
REVISED DATE : *
REVISED DATE : *



SHEET NO. : C-1.0



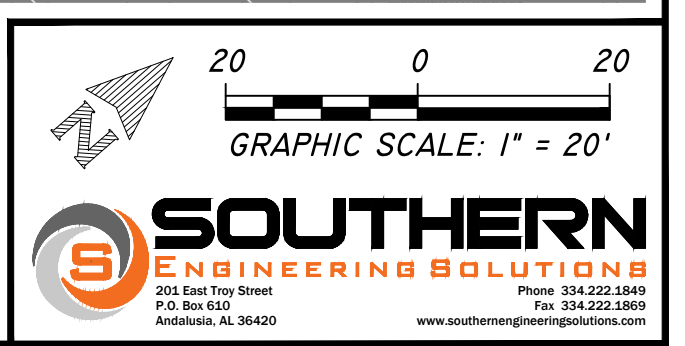
NOTE
 THE CONTRACTOR SHALL FILL THE ENTIRE PIPE WITH A MINERAL AGGREGATE NON-SHRINK PORTLAND CEMENTITIOUS GROUT MIX THAT MEETS THE REQUIREMENTS OF SECTION 240 OF THE LATEST EDITION OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

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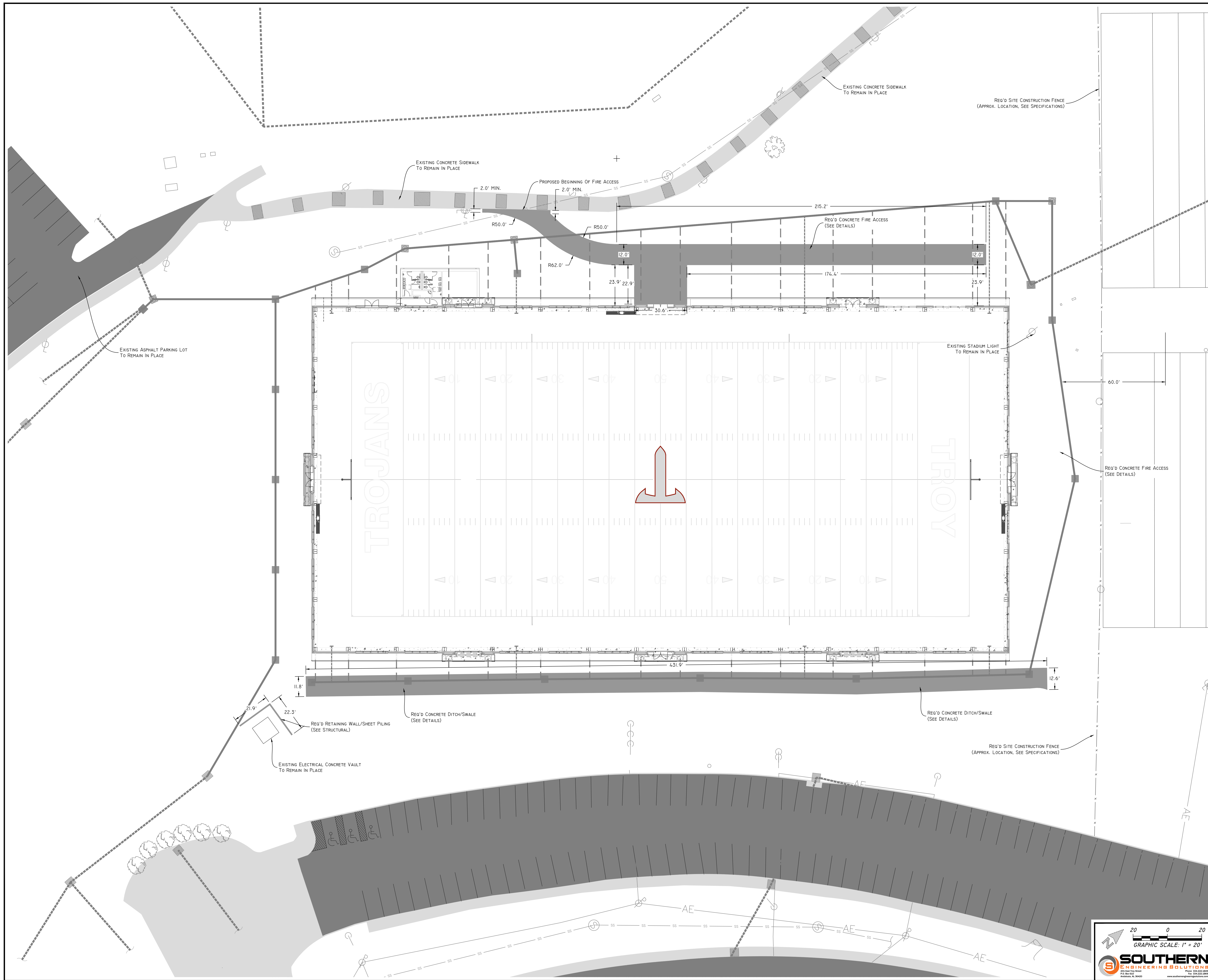


SHEET TITLE : SITE DEMOLITION PLAN
 MCKEE JOB # : 22.339
 DRAWN BY : JAC
 DATE : 10.21.24
 REVISED DATE : *
 REVISED DATE : *
 REVISED DATE : *



SHEET NO. : C-20

Friday, October 18, 2024 10:15:16 AM

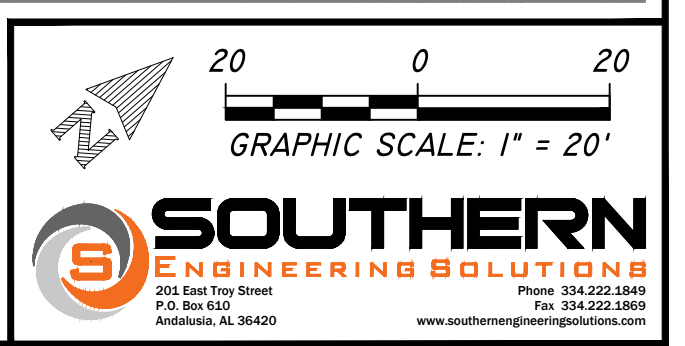


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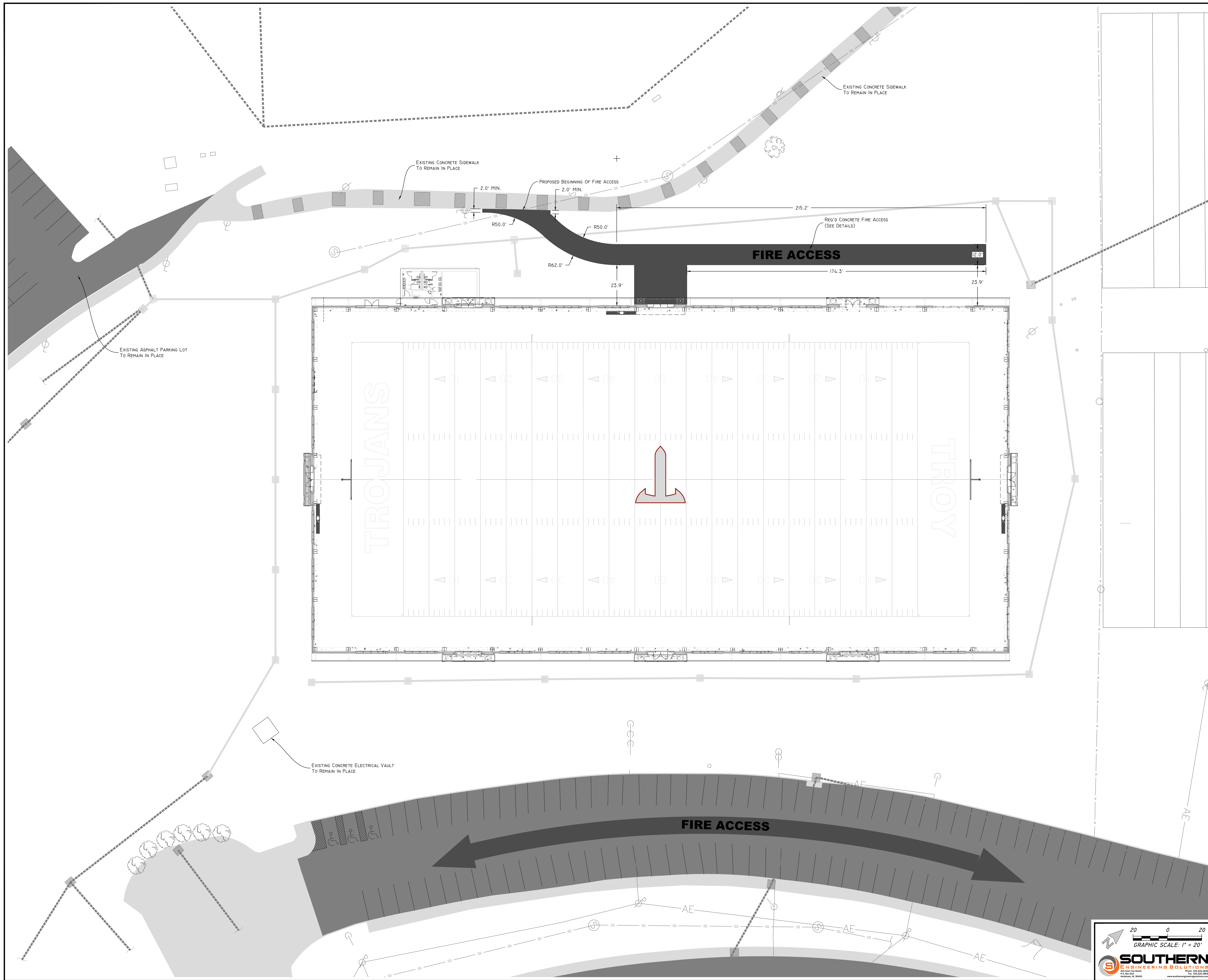
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SHEET TITLE : SITE LAYOUT
MCKEE JOB # : 22.339
DRAWN BY : JAC
DATE : 10.21.24
REVISED DATE : *
REVISED DATE : *
REVISED DATE : *



SHEET NO. : C-3.0

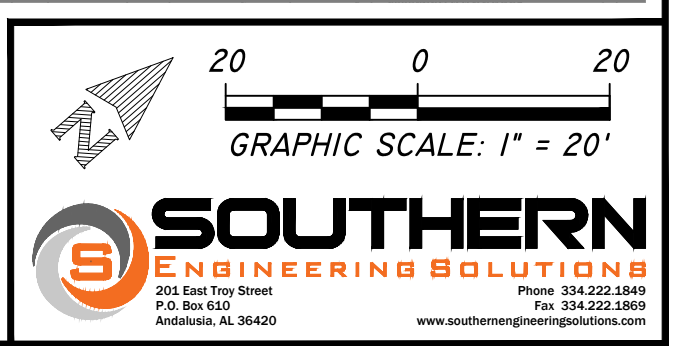


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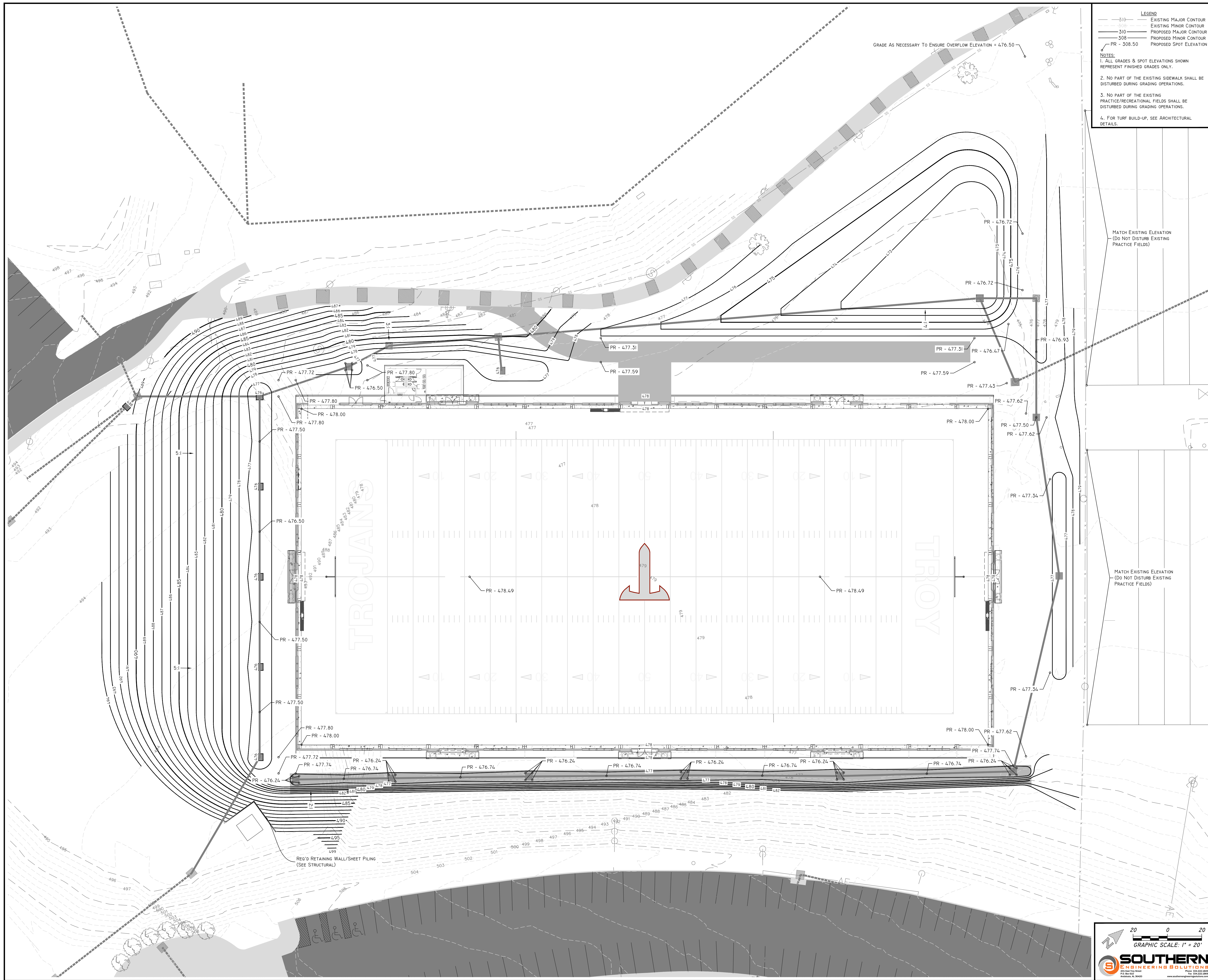
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SHEET TITLE : FIRE ACCESS ROUTE
MCKEE JOB # : 22.339
DRAWN BY : JAC
DATE : 10.21.24
REVISED DATE : *
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REVISED DATE : *



SHEET NO. : C-3.1



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SHEET TITLE : SITE GRADING PLAN

MCKEE JOB # : 22.339

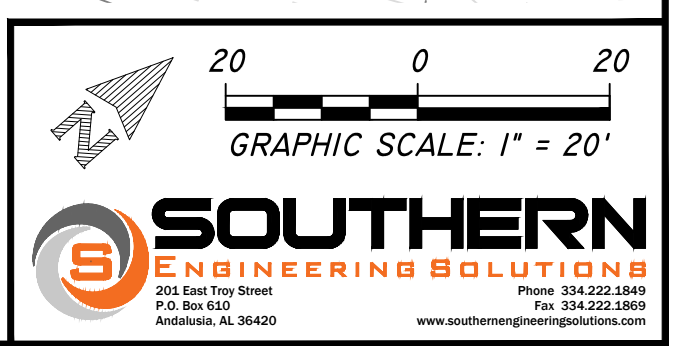
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DATE : 10.21.24

REVISED DATE : *

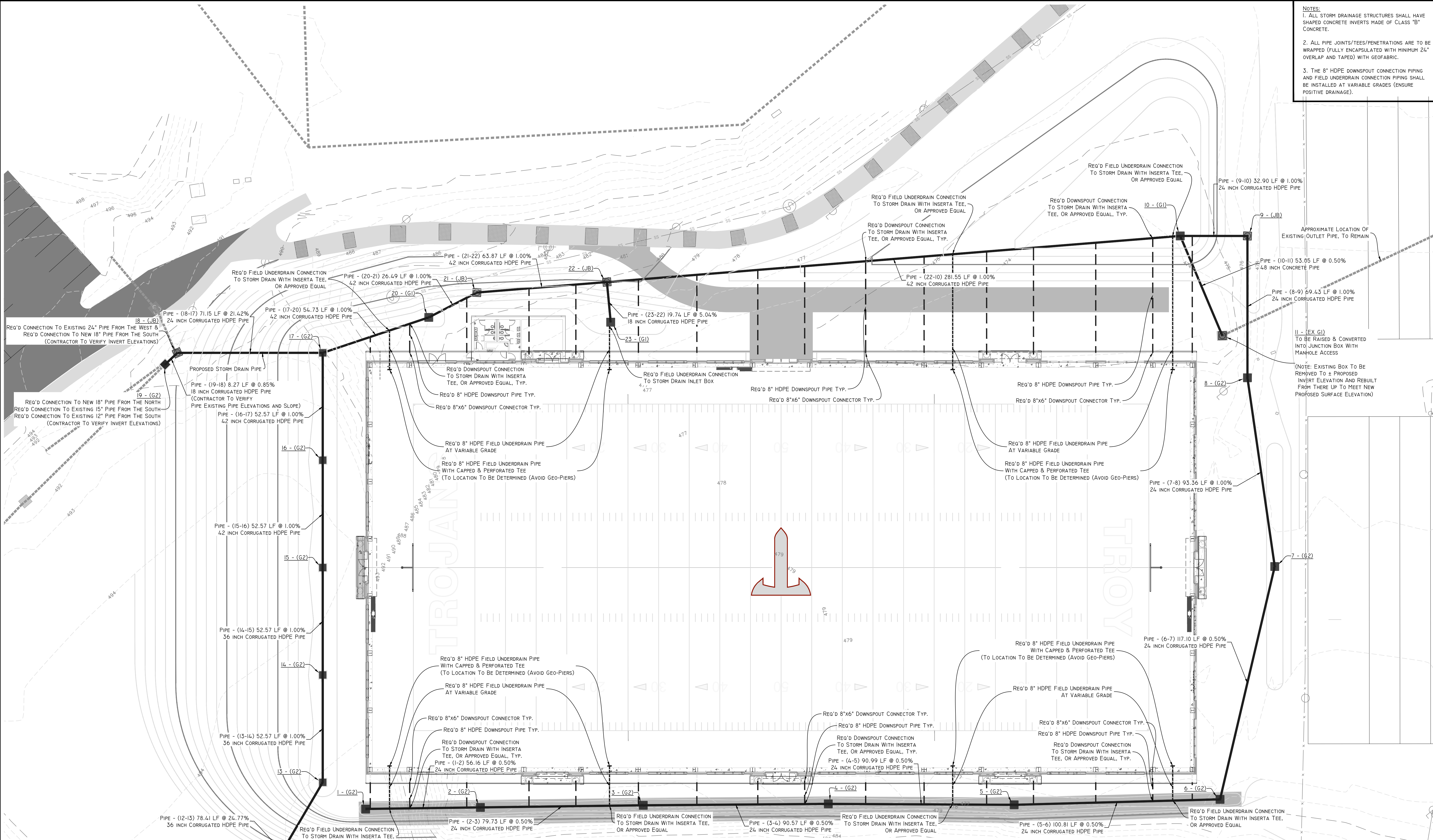
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- NOTES:
1. ALL STORM DRAINAGE STRUCTURES SHALL HAVE SHAPED CONCRETE INVERTS MADE OF CLASS 'B' CONCRETE.
 2. ALL PIPE JOINTS/TEES/PENETRATIONS ARE TO BE WRAPPED (FULLY ENCAPSULATED WITH MINIMUM 24" OVERLAP AND TAPED) WITH GEOFABRIC.
 3. THE 8" HDPE DOWNSPOUT CONNECTION PIPING AND FIELD UNDERDRAIN CONNECTION PIPING SHALL BE INSTALLED AT VARIABLE GRADES (ENSURE POSITIVE DRAINAGE).



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STORM DRAINAGE STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	NOTES
1 - (G2)	TOP = 476.24 1-2 INV. OUT = 471.24 TOP = 476.24	
2 - (G2)	1-2 INV. IN = 470.96 2-3 INV. OUT = 470.86 TOP = 476.24	
3 - (G2)	2-3 INV. IN = 470.46 3-4 INV. OUT = 470.36 TOP = 476.24	
4 - (G2)	3-4 INV. IN = 469.91 4-5 INV. OUT = 469.81 TOP = 476.24	
5 - (G2)	4-5 INV. IN = 469.35 5-6 INV. OUT = 469.25 TOP = 476.24	
6 - (G2)	5-6 INV. IN = 468.75 6-7 INV. OUT = 468.65 TOP = 476.50	
7 - (G2)	6-7 INV. IN = 468.06 7-8 INV. OUT = 467.96 TOP = 476.50	
8 - (G2)	7-8 INV. IN = 467.03 8-9 INV. OUT = 466.93 TOP = 476.83	
9 - (JB)	8-9 INV. IN = 466.24 9-10 INV. OUT = 466.14 TOP = 472.00	
10 - (G1)	9-10 INV. IN = 465.81 10-11 INV. IN = 462.82 10-11 INV. OUT = 461.00	
11 - (EX G1) (PR - JB)	10-11 INV. IN = 460.73 36" INV. IN = 468.80 - FILLED 48" INV. IN = 450.20 - FILLED 48" INV. OUT = 450.10	EXISTING GRATE INLET TO BE RAISED & CONVERTED INTO A JUNCTION BOX WITH A MANHOLE ACCESS.
12 - (EX G1)	TOP = 493.12 36" INV. IN = 488.52 12-13 INV. OUT = 488.42	EXISTING GRATE INLET TO REMAIN WITH NORTH PIPE REMOVED AND REROUTED

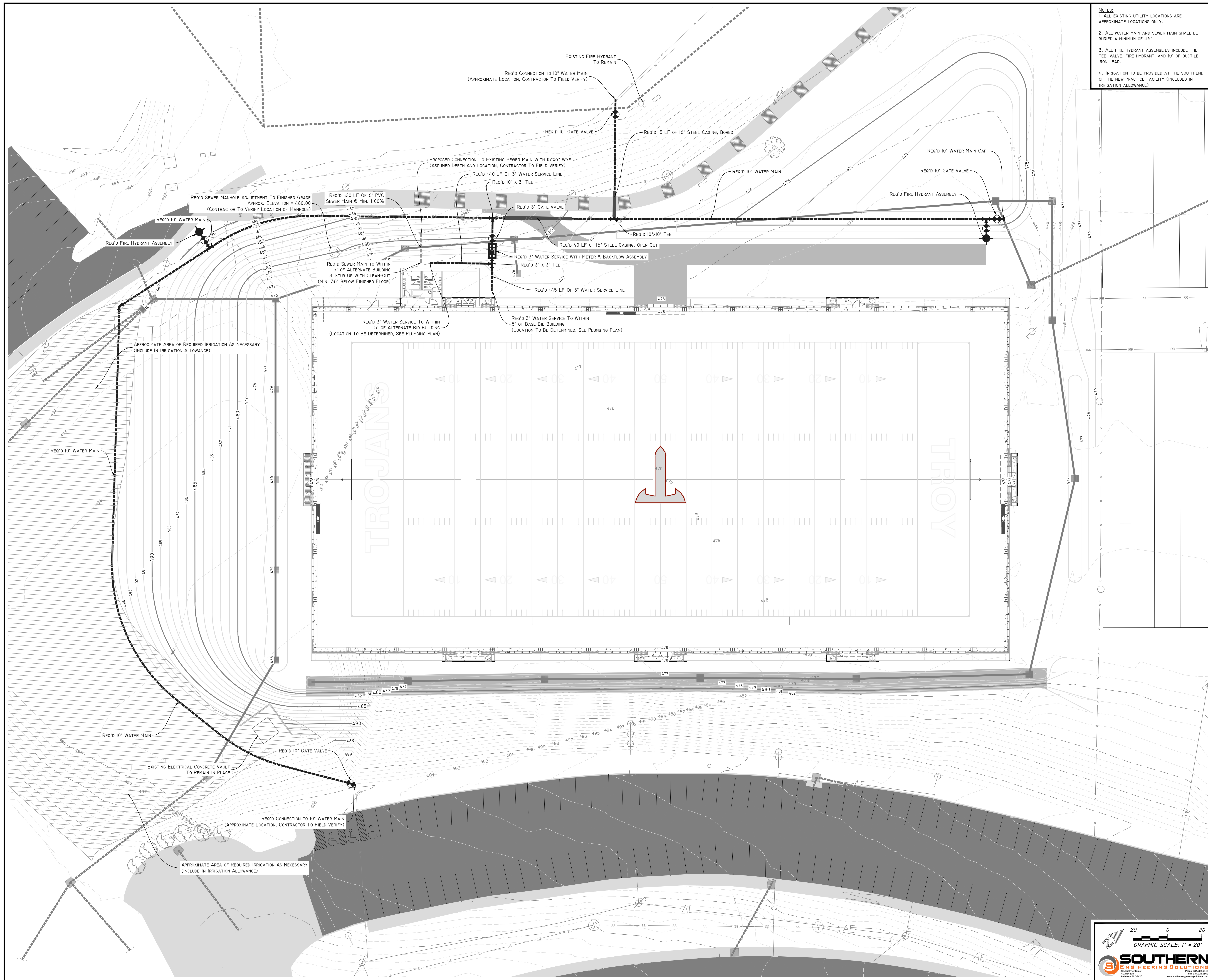
STORM DRAINAGE STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	NOTES
13 - (G2)	12-13 INV. IN = 469.00 13-14 INV. OUT = 468.90 TOP = 476.00	
14 - (G2)	13-14 INV. IN = 468.37 14-15 INV. OUT = 468.27 TOP = 476.00	
15 - (G2)	14-15 INV. IN = 467.74 15-16 INV. OUT = 467.64 TOP = 476.00	
16 - (G2)	15-16 INV. IN = 467.11 16-17 INV. OUT = 467.01 TOP = 476.00	
17 - (G2)	16-17 INV. IN = 466.48 18-17 INV. IN = 467.48 17-20 INV. OUT = 466.38	
18 - (JB)	TOP = 489.00 24" INV. IN = 482.82 18" INV. IN = 482.82 18-17 INV. OUT = 482.72	EXISTING GRATE INLET TO BE REPLACED WITH JUNCTION BOX & CONNECT TO EXISTING 24" PIPE. (MATCH EXISTING PIPE ELEV.)
19 - (G2)	TOP = 488.00 15" INV. IN = 482.99 12" INV. IN = 482.99 18" INV. OUT = 482.89	GRATE INLET TO BE PLACED & CONNECTED TO EXISTING 15" & 12" PIPES. (MATCH EXISTING PIPE ELEV.). CONTRACTOR TO VERIFY.
20 - (G1)	TOP = 476.50 17-20 INV. IN = 465.83 20-21 INV. OUT = 465.73 TOP = 478.45	
21 - (JB)	20-21 INV. IN = 465.47 21-22 INV. OUT = 465.37 TOP = 480.00	
22 - (JB)	21-22 INV. IN = 464.73 23-22 INV. IN = 465.74 22-10 INV. OUT = 464.63	
23 - (G1)	TOP = 476.00 23-22 INV. OUT = 466.74	

STORM DRAINAGE PIPE TABLE					
PIPE NAME	LENGTH	SIZE	SLOPE	MATERIAL	NOTES
1-2	56.16	24"	0.50%	CORRUGATED HDPE	
2-3	79.73	24"	0.50%	CORRUGATED HDPE	
3-4	90.57	24"	0.50%	CORRUGATED HDPE	
4-5	90.99	24"	0.50%	CORRUGATED HDPE	
5-6	100.81	24"	0.50%	CORRUGATED HDPE	
6-7	117.10	24"	0.50%	CORRUGATED HDPE	
7-8	93.36	24"	1.00%	CORRUGATED HDPE	
8-9	69.43	24"	1.00%	CORRUGATED HDPE	
9-10	32.91	24"	1.00%	CORRUGATED HDPE	
10-11	53.05	48"	0.50%	CLASS III RCP	
12-13	78.41	36"	23.49%	CORRUGATED HDPE	
13-14	52.57	36"	1.00%	CORRUGATED HDPE	
14-15	52.57	36"	1.00%	CORRUGATED HDPE	
15-16	52.57	42"	1.00%	CORRUGATED HDPE	
16-17	52.57	42"	1.00%	CORRUGATED HDPE	
18-17	71.15	24"	21.42%	CORRUGATED HDPE	
19-18	8.27	18"	0.85%	CORRUGATED HDPE	CONTRACTOR TO VERIFY SLOPE
17-20	54.73	42"	1.00%	CORRUGATED HDPE	
20-21	26.49	42"	1.00%	CORRUGATED HDPE	
21-22	63.87	42"	1.00%	CORRUGATED HDPE	
23-22	19.74	18"	5.04%	CORRUGATED HDPE	
23-10	281.55	42"	1.00%	CORRUGATED HDPE	

SOUTHERN
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 200 East 10th Street
 Troy, AL 36060
 Phone: 334.222.0888
 Fax: 334.222.0889
 Website: www.southerneng.com

SHEET TITLE : SITE STORM DRAINAGE PLAN
 MCKEE JOB # : 22.339
 DRAWN BY : JAC
 DATE : 10.21.24
 REVISED DATE : *
 REVISED DATE : *
 REVISED DATE : *
 SHEET NO. : C - 5.0

Friday, October 18, 2024 10:15:35 AM



- NOTES
1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE LOCATIONS ONLY.
 2. ALL WATER MAIN AND SEWER MAIN SHALL BE BURIED A MINIMUM OF 36".
 3. ALL FIRE HYDRANT ASSEMBLIES INCLUDE THE TEE, VALVE, FIRE HYDRANT, AND 10" OF DUCTILE IRON LEAD.
 4. IRRIGATION TO BE PROVIDED AT THE SOUTH END OF THE NEW PRACTICE FACILITY (INCLUDED IN IRRIGATION ALLOWANCE)

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SHEET TITLE : SITE UTILITIES PLAN

MCKEE JOB # : 22.339

DRAWN BY : JAC

DATE : 10.21.24

REVISED DATE : *

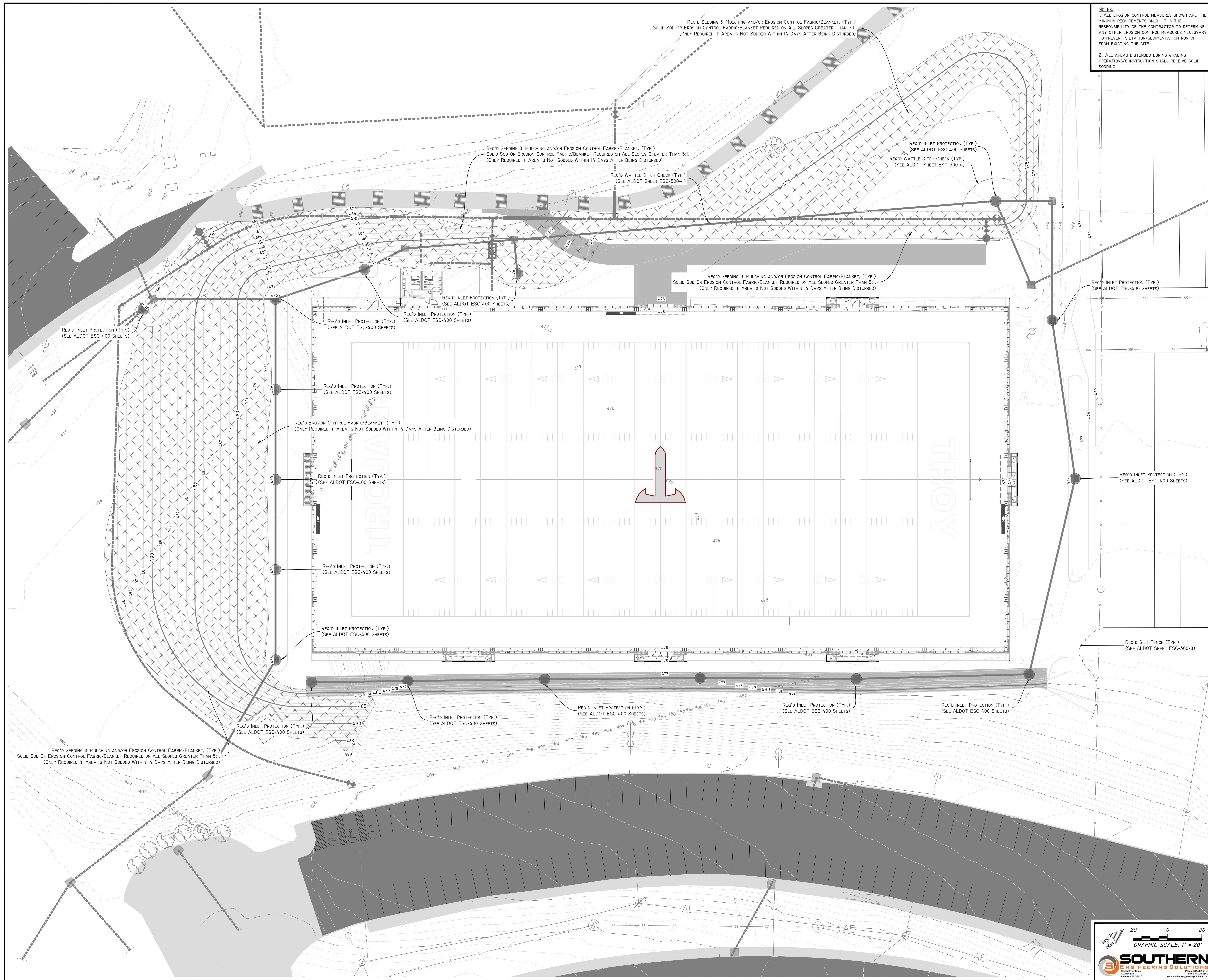
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REVISED DATE : *

20 0 20
GRAPHIC SCALE: 1" = 20'

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Andalusia, AL 36820
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SHEET NO. : C-6.0



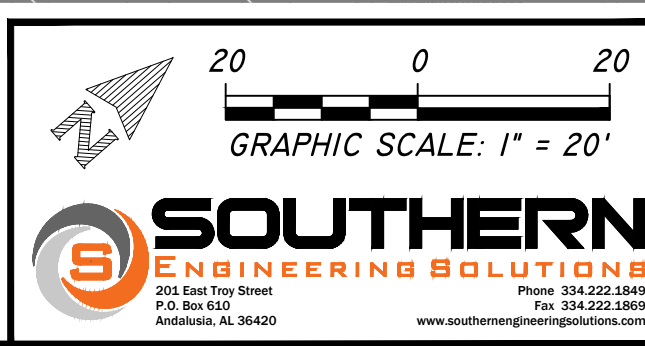
NOTES:
 1. ALL EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ANY OTHER EROSION CONTROL MEASURES NECESSARY TO PREVENT SILTATION/SEDIMENTATION RUN-OFF FROM EXISTING THE SITE.
 2. ALL AREAS DISTURBED DURING GRADING OPERATIONS/CONSTRUCTION SHALL RECEIVE SOLID SODDING.

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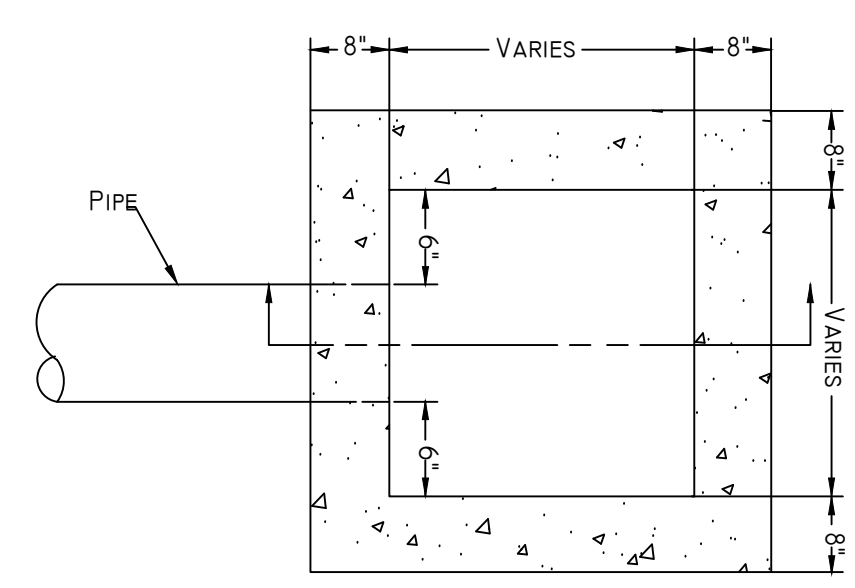
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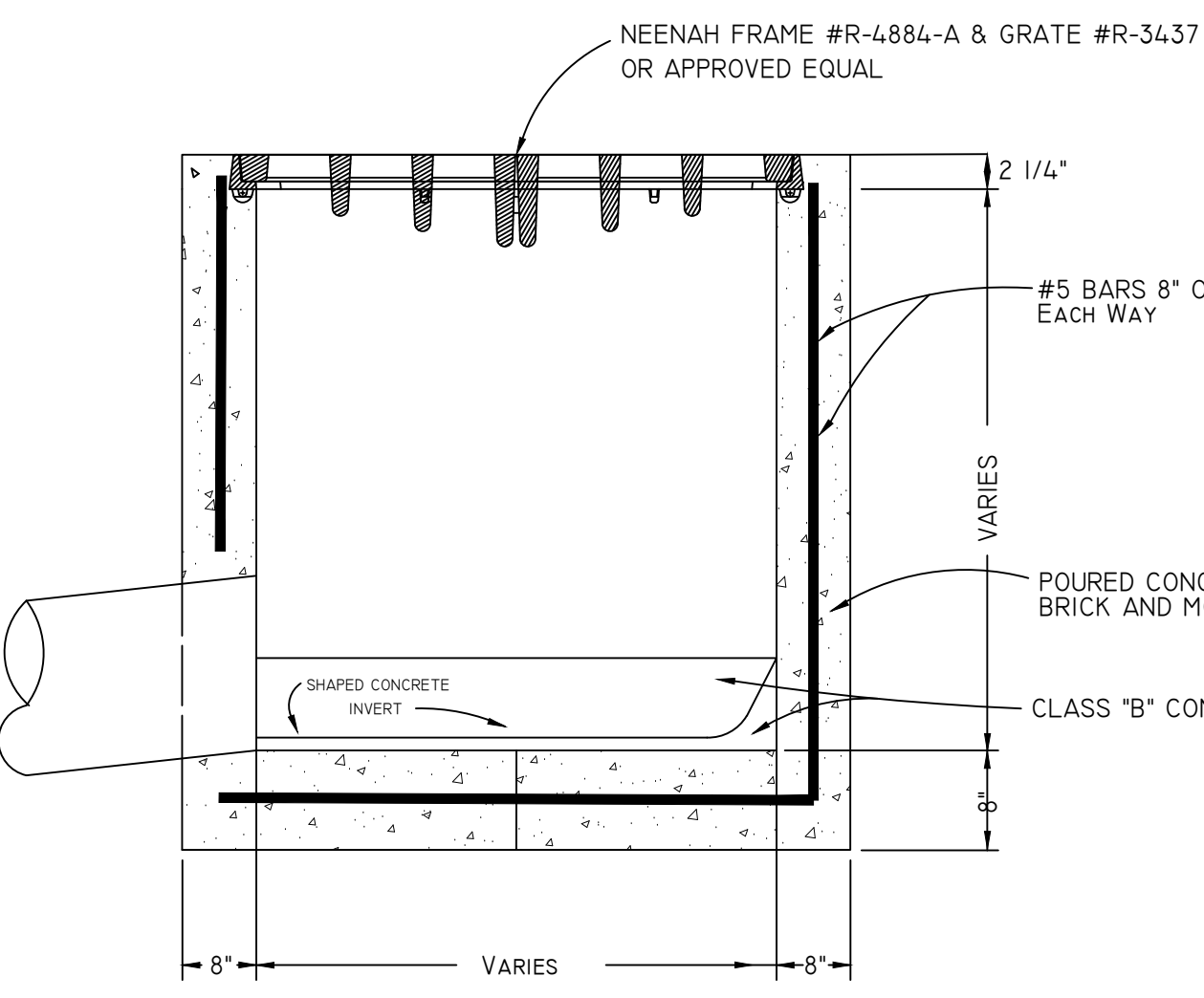
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 MCKEE JOB # : 22.339
 DRAWN BY : JAC
 DATE : 10.21.24
 REVISED DATE : *
 REVISED DATE : *
 REVISED DATE : *



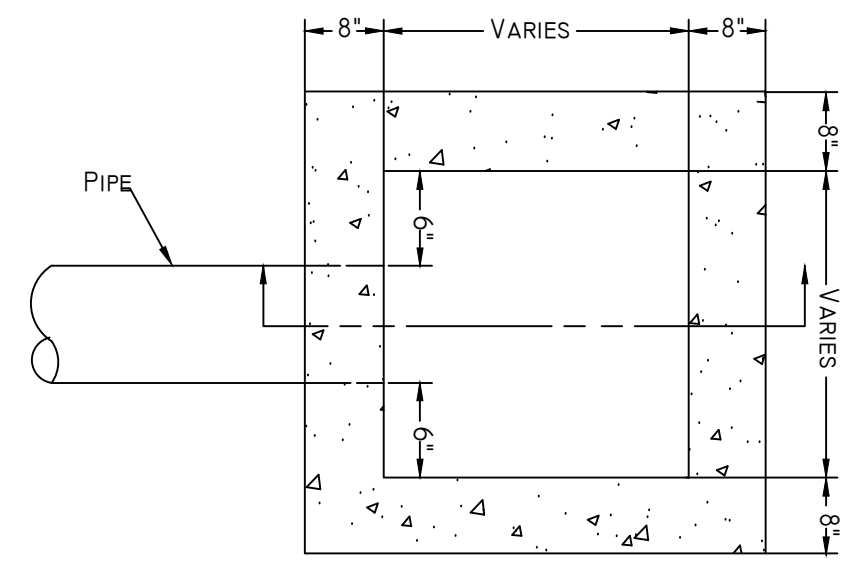
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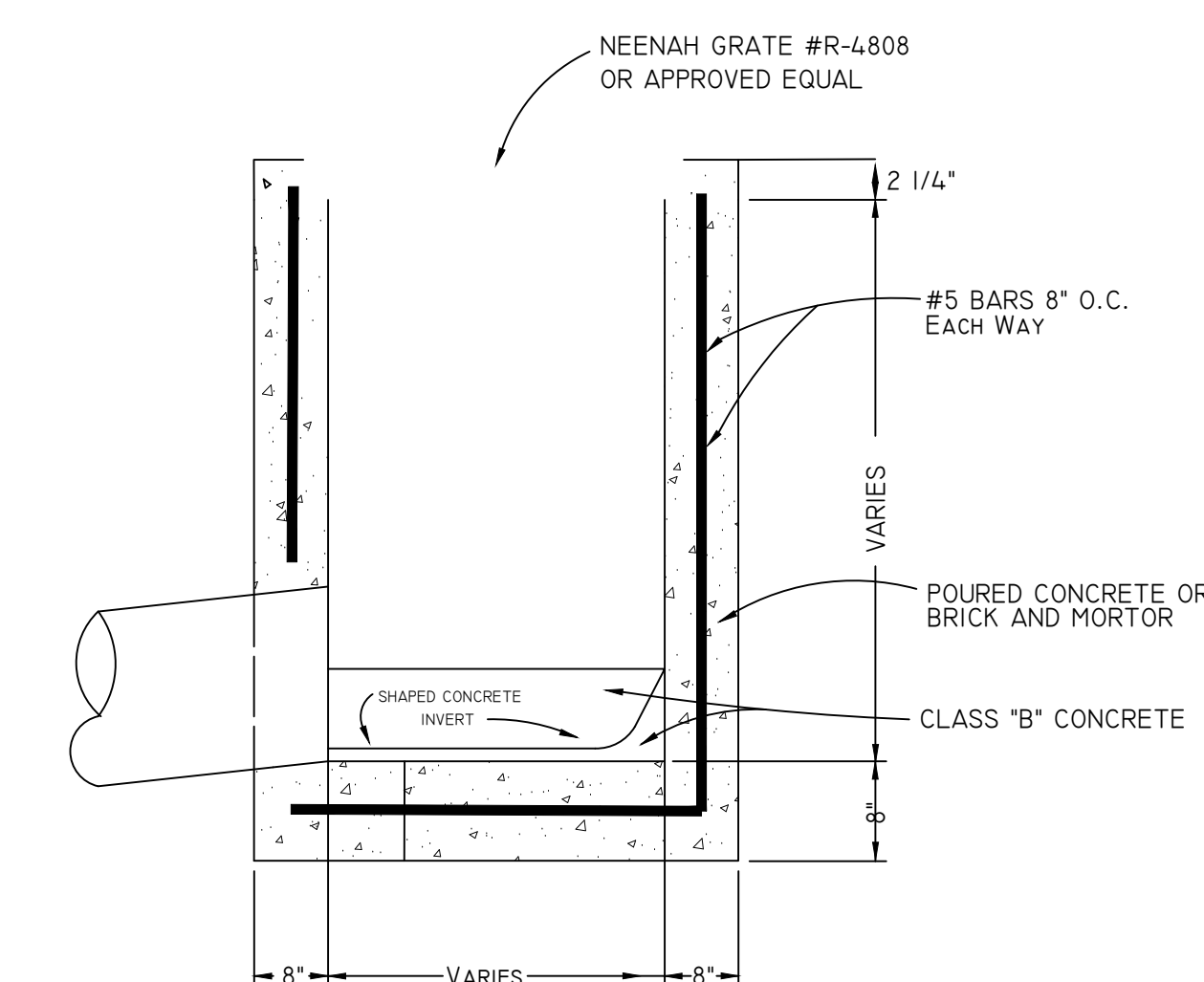
TOP VIEW



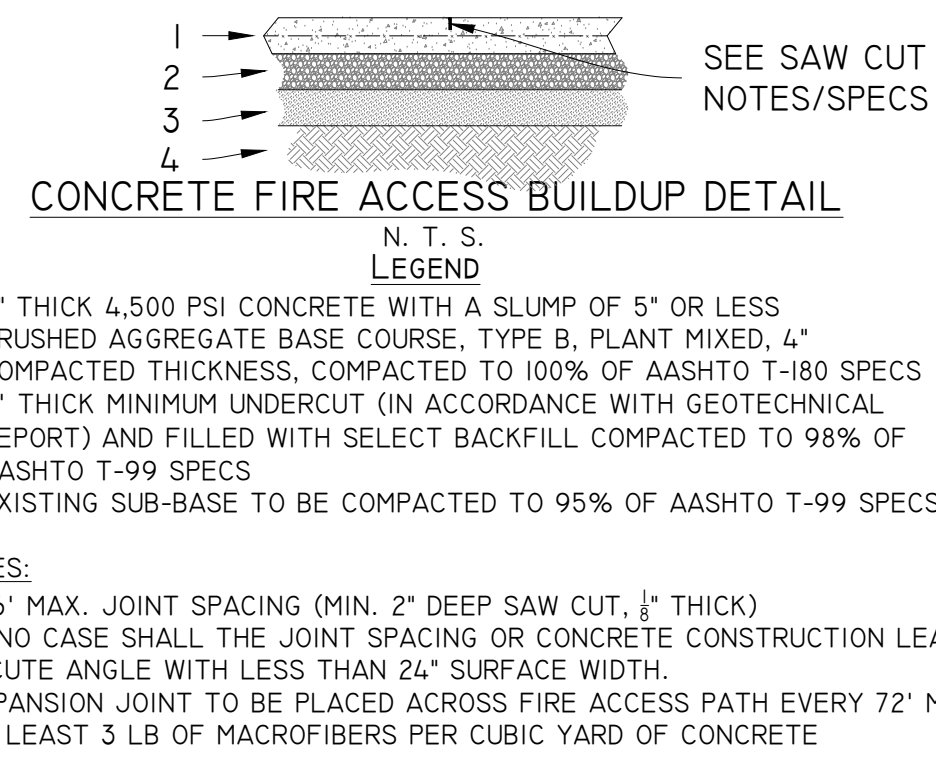
SIDE VIEW
GRATE INLET BOX (G1)
NO SCALE



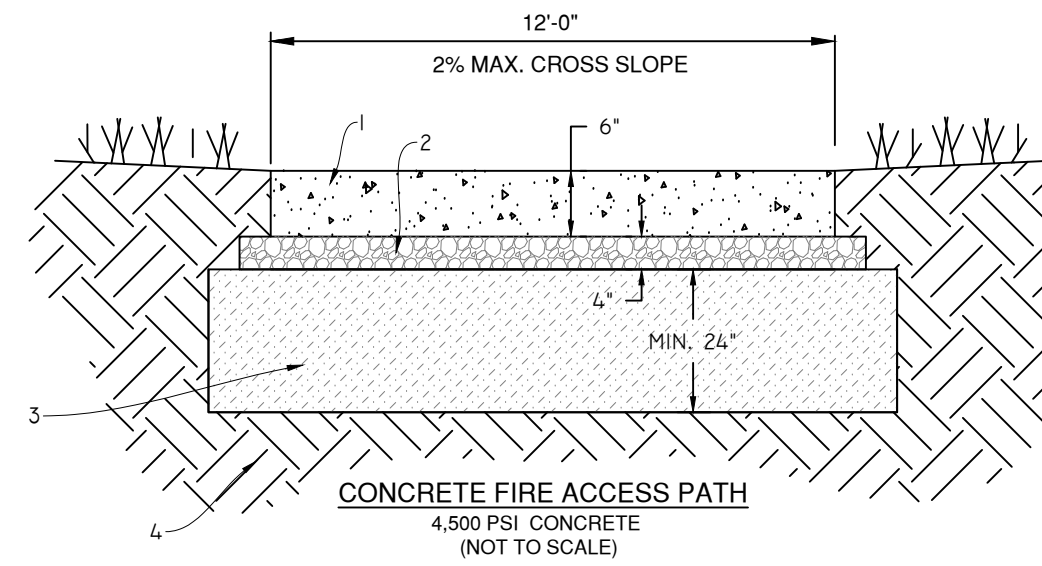
TOP VIEW



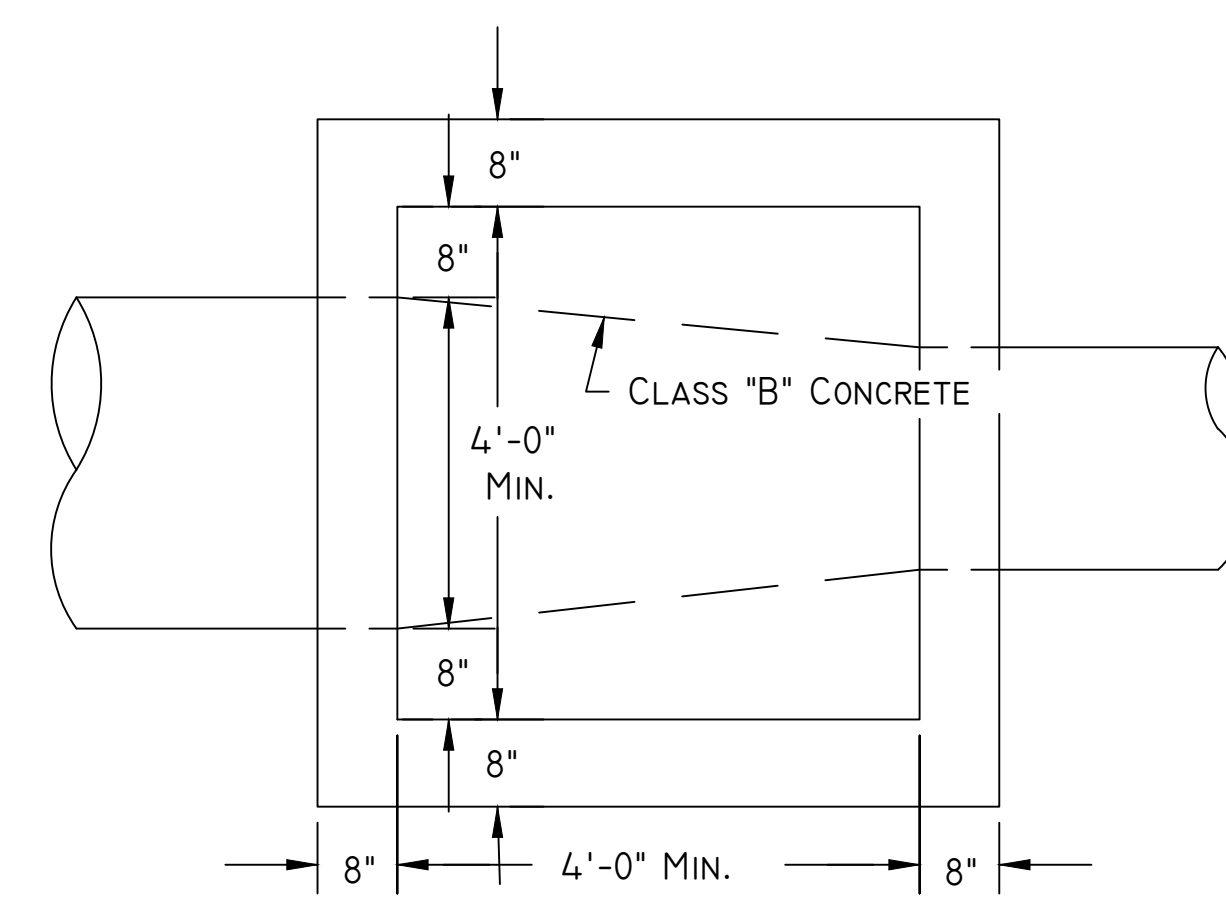
SIDE VIEW
GRATE INLET BOX (G2)
NO SCALE



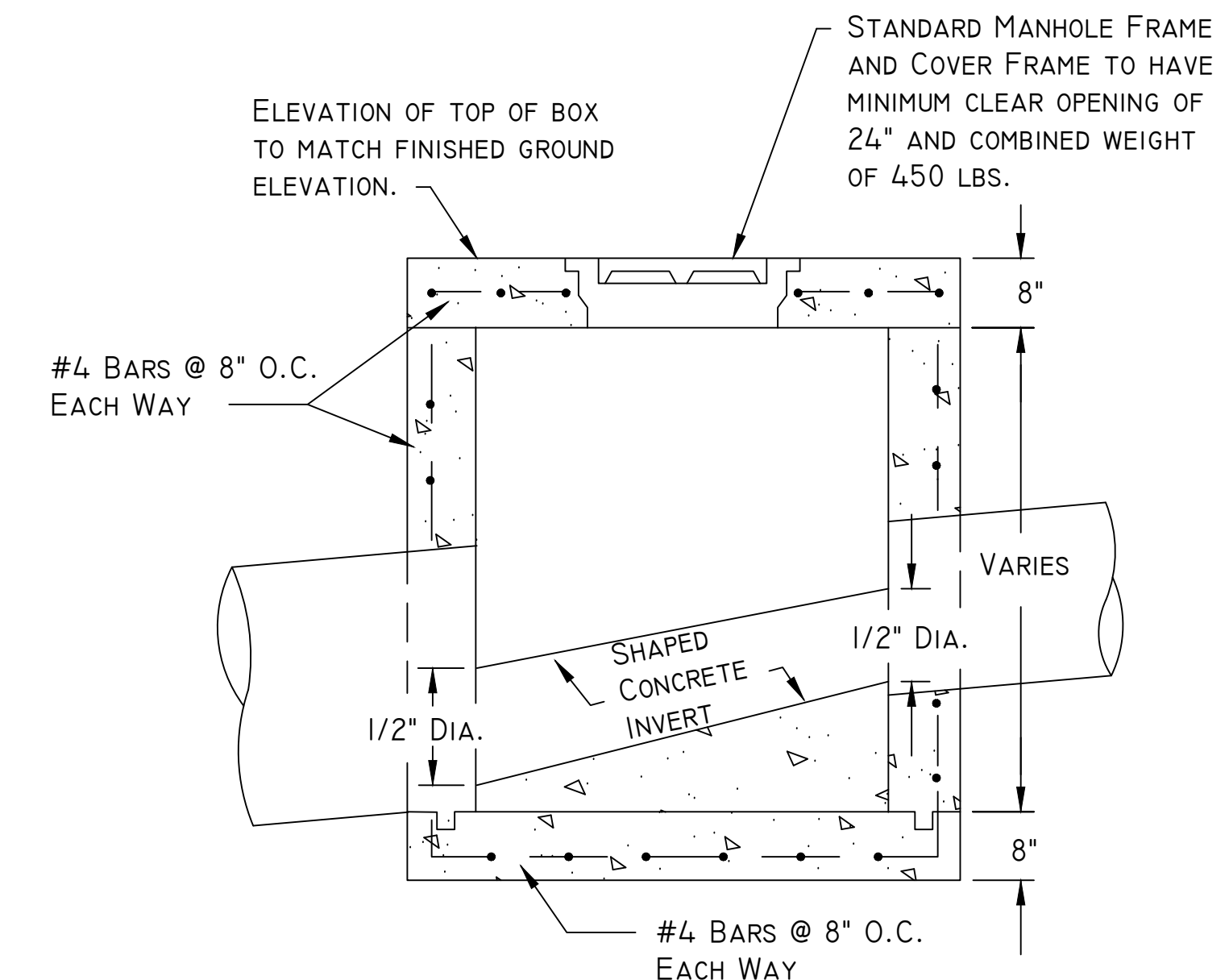
- CONCRETE FIRE ACCESS BUILDUP DETAIL**
N. T. S.
- LEGEND
- 6" THICK 4,500 PSI CONCRETE WITH A SLUMP OF 5" OR LESS
 - CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS, COMPACTED TO 100% OF AASHTO T-180 SPECS
 - 2" THICK MINIMUM UNDERCUT (IN ACCORDANCE WITH GEOTECHNICAL REPORT) AND FILLED WITH SELECT BACKFILL COMPACTED TO 98% OF AASHTO T-99 SPECS
 - EXISTING SUB-BASE TO BE COMPACTED TO 95% OF AASHTO T-99 SPECS
- *NOTES:
- 6"x6" MAX. JOINT SPACING (MIN. 2" DEEP SAW CUT, 1" THICK)
 - IN NO CASE SHALL THE JOINT SPACING OR CONCRETE CONSTRUCTION LEAVE AN ACUTE ANGLE WITH LESS THAN 24" SURFACE WIDTH.
 - EXPANSION JOINT TO BE PLACED ACROSS FIRE ACCESS PATH EVERY 72' MAX.
 - AT LEAST 3 LB OF MACROFIBERS PER CUBIC YARD OF CONCRETE



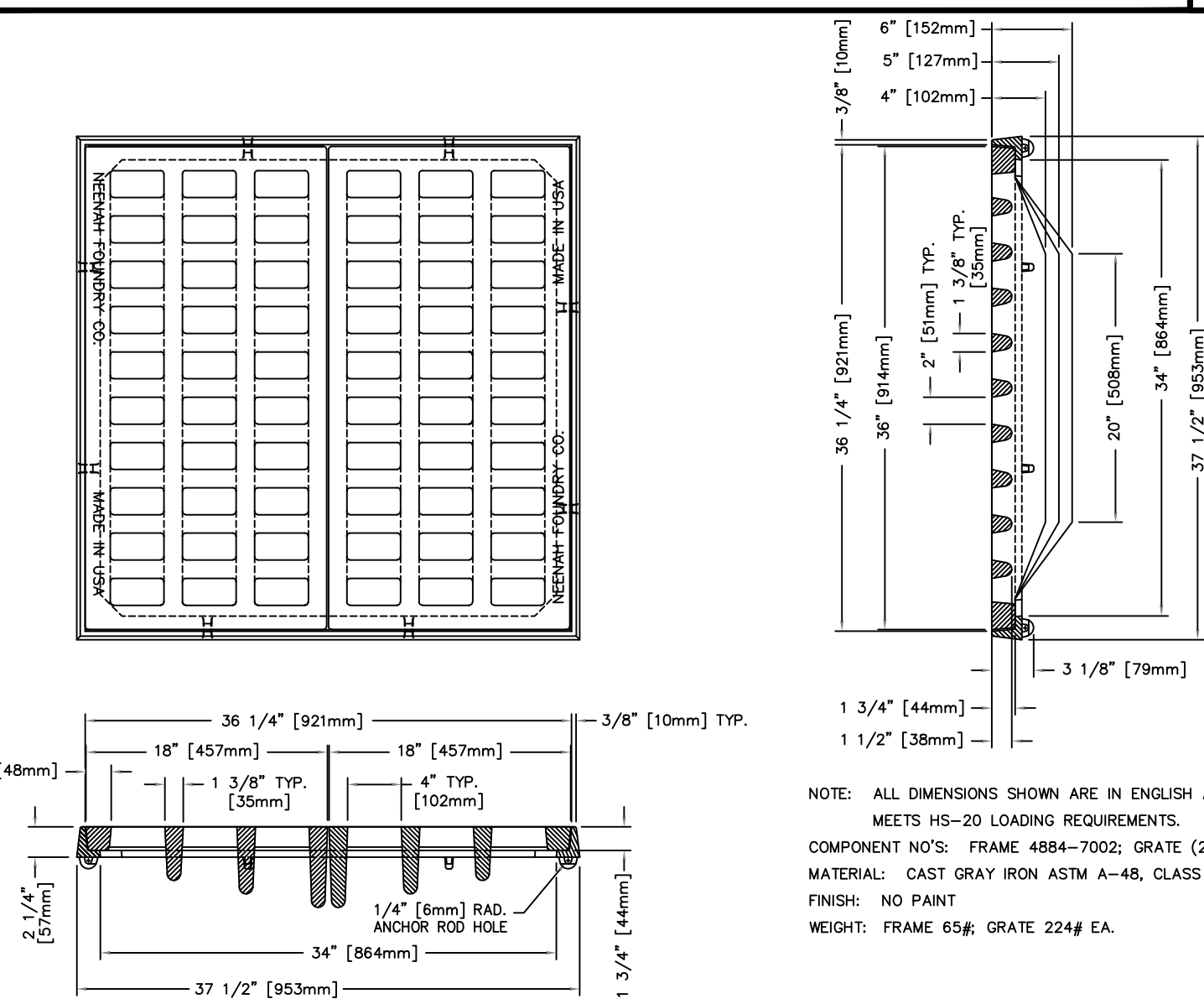
- CONCRETE FIRE ACCESS PATH**
4,500 PSI CONCRETE (NOT TO SCALE)
- 6" THICK 4,500 PSI CONCRETE WITH A SLUMP OF 5" OR LESS
 - CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS, COMPACTED TO 100% OF AASHTO T-180 SPECS
 - 2" THICK MINIMUM UNDERCUT (IN ACCORDANCE WITH GEOTECHNICAL REPORT) AND FILLED WITH SELECT BACKFILL COMPACTED TO 98% OF AASHTO T-99 SPECS
 - EXISTING SUB-BASE TO BE COMPACTED TO 95% OF AASHTO T-99 SPECS



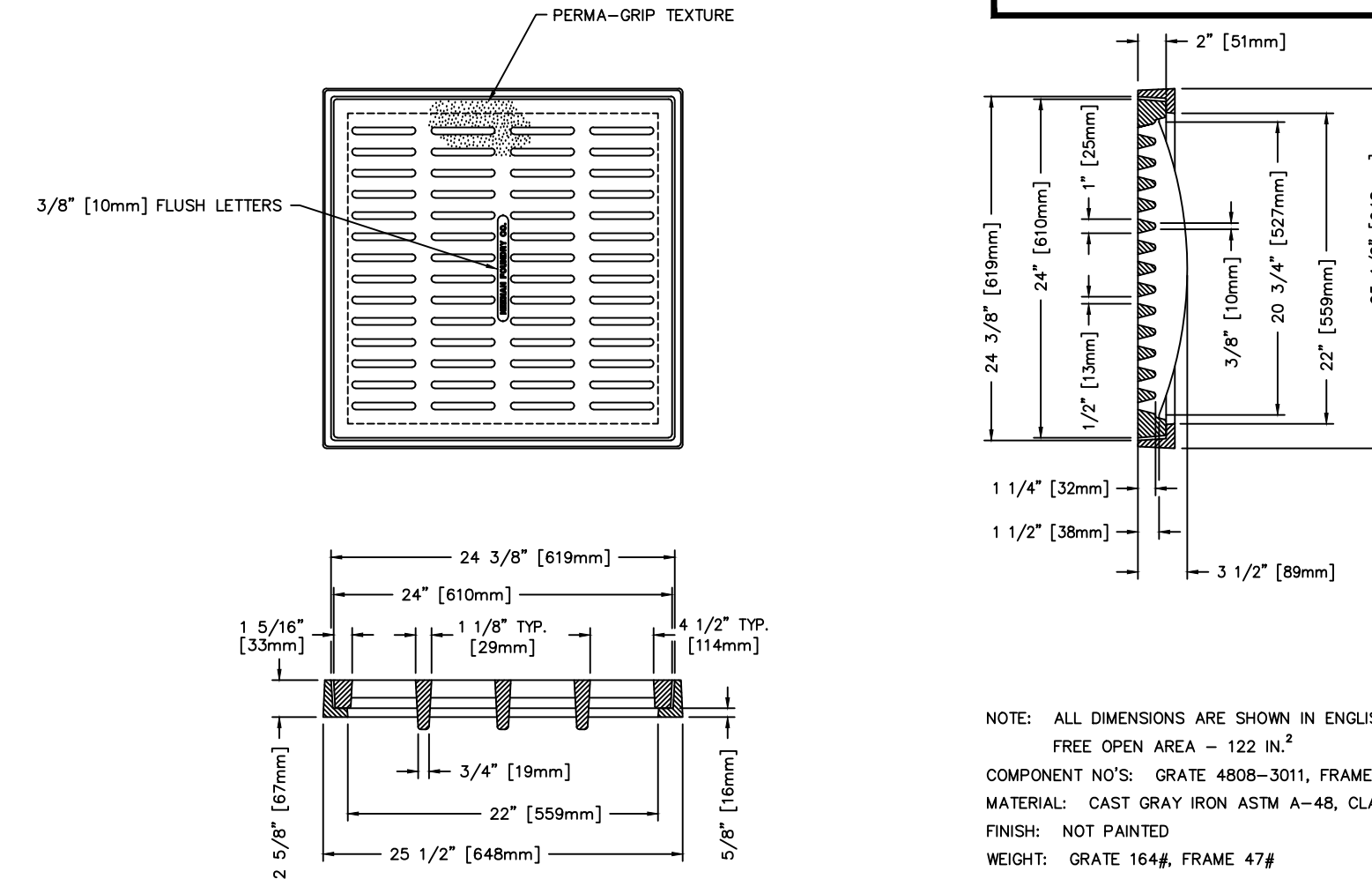
PLAN VIEW



JUNCTION BOX DETAIL
NOT TO SCALE

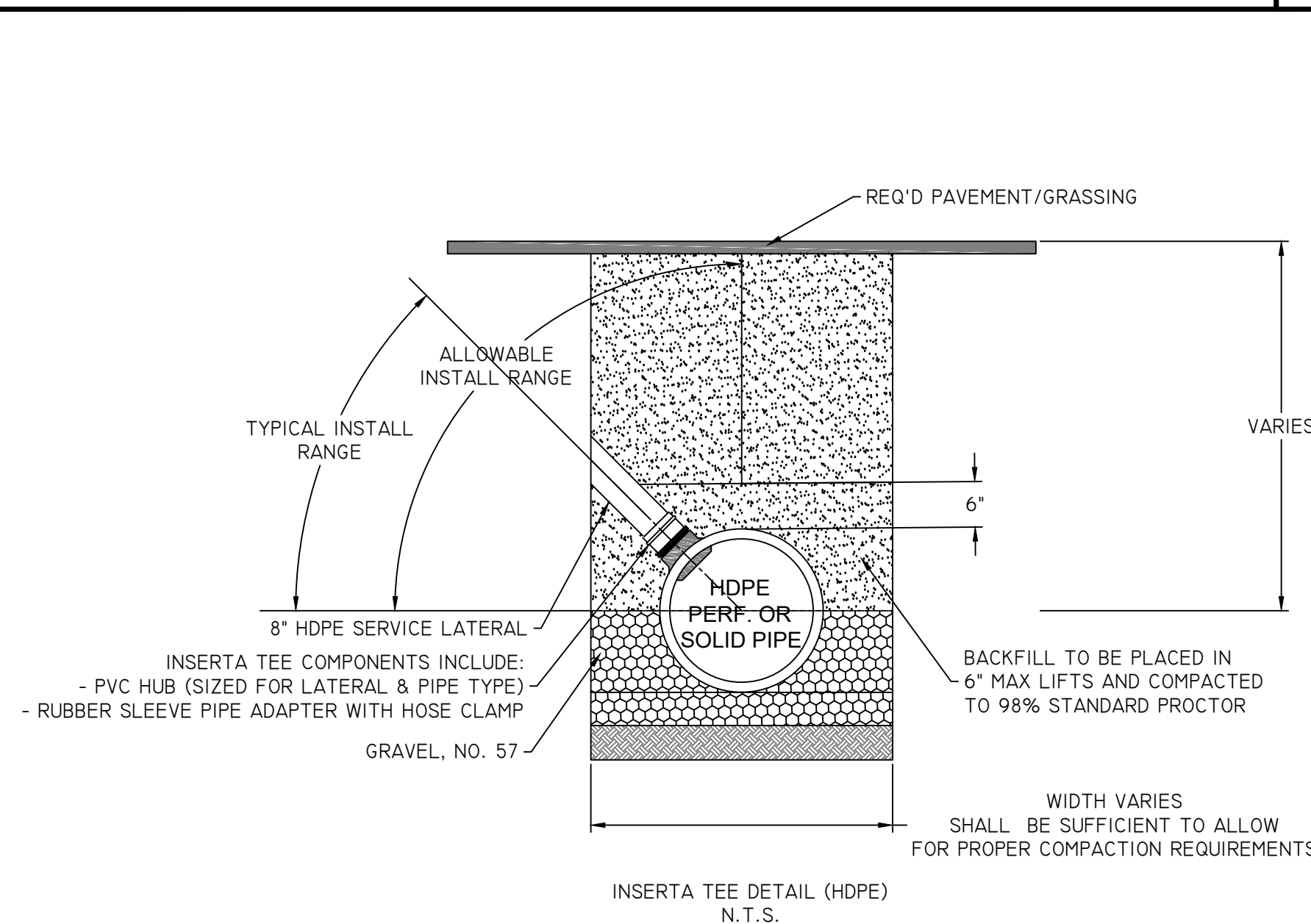


GRATE INLET TOP (G1)
NO SCALE



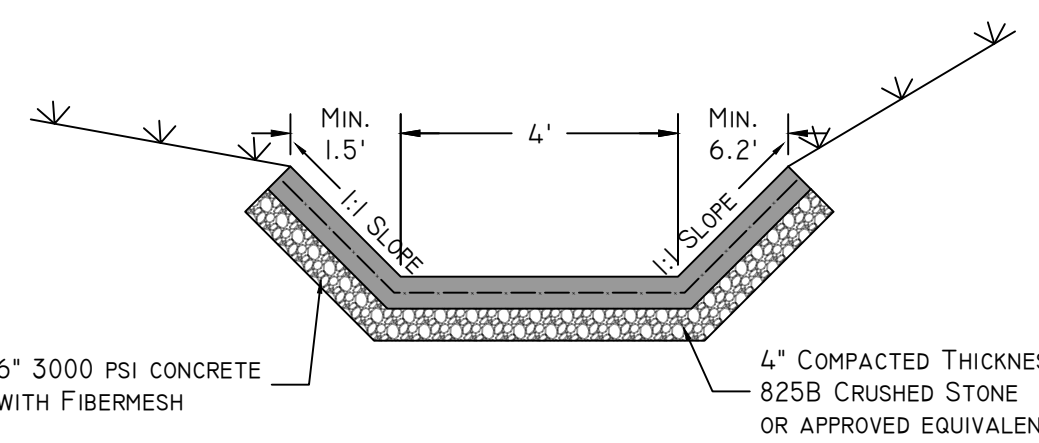
GRATE INLET TOP (G2)
NO SCALE

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH AND [METRIC].
FREE OPEN AREA - 122 in²
COMPONENT NOS: GRATE 4884-7002; FRAME 4810-7001
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NOT PAINTED
WEIGHT: GRATE 164#, FRAME 47#



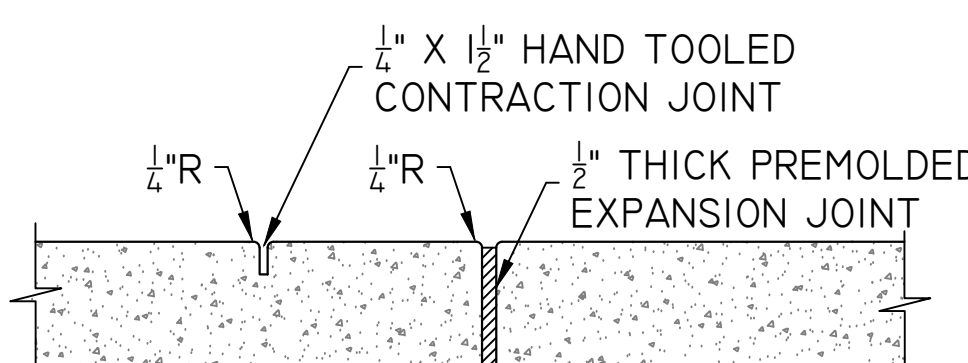
INSERTA TEE DETAIL (HDPE)
N.T.S.

- NOTES:
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - THE INSERTA TEE CONNECTION CAN BE INSTALLED UP TO A VERTICAL ORIENTATION, BUT A 45° INSTALL ANGLE IS MOST COMMON. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE SELECT BACKFILL.
 - ALL PIPE JOINTS/TEES/PENETRATIONS ARE TO BE WRAPPED (FULLY ENCAPSULATED WITH MINIMUM 24" OVERLAP AND TAPED) WITH GEOFABRIC.



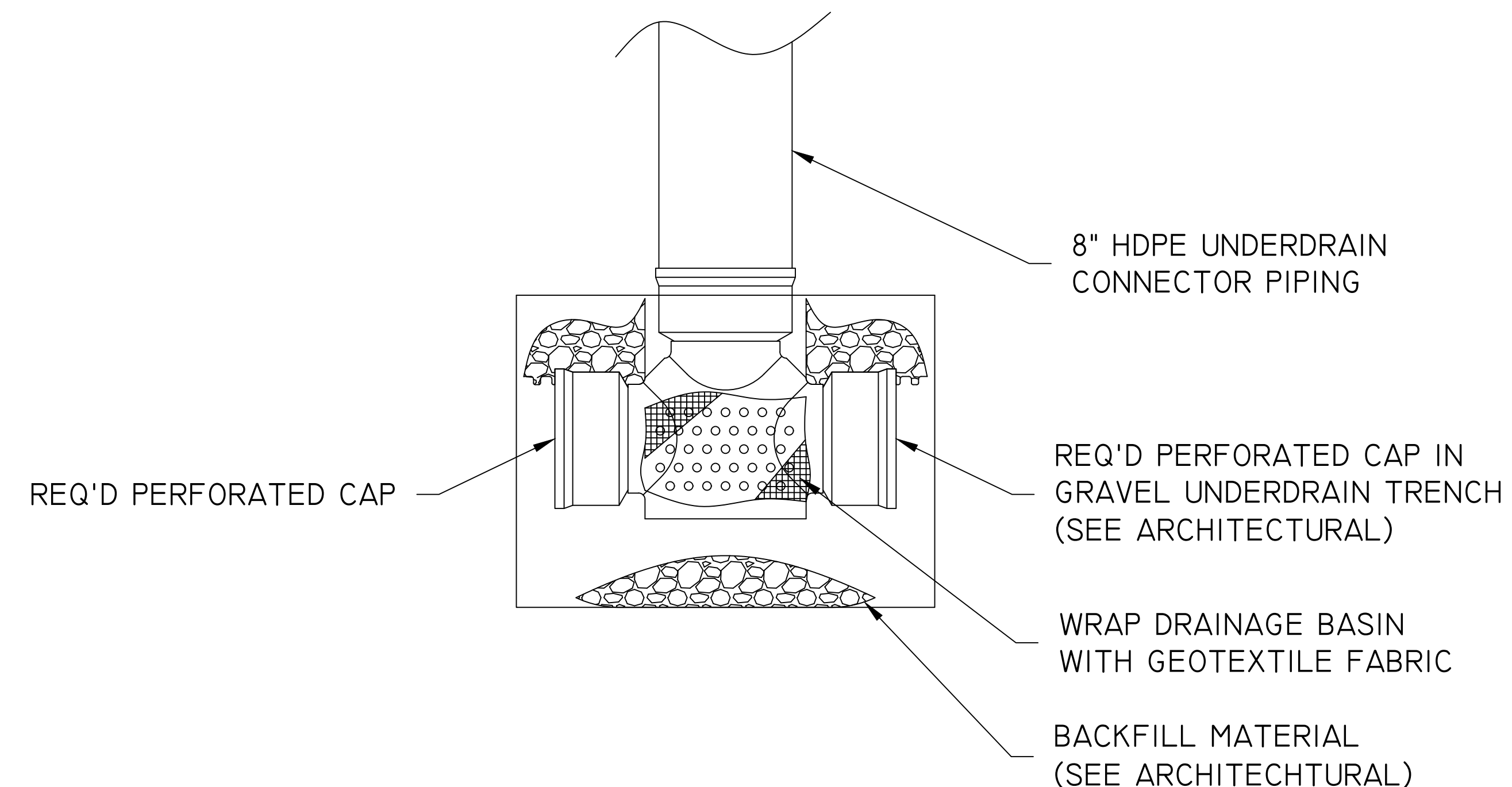
TYPICAL SECTION
CONCRETE DITCH/SWALE
N.T.S.

- *NOTES:
- 6" MAX. JOINT SPACING (MIN. 2" DEEP SAW CUT, 1" THICK)
 - IN NO CASE SHALL THE JOINT SPACING OR CONCRETE CONSTRUCTION LEAVE AN ACUTE ANGLE WITH LESS THAN 24" SURFACE WIDTH.
 - EXPANSION JOINT TO BE PLACED ACROSS CONCRETE DITCH/SWALE EVERY 42' MAX.
 - AT LEAST 3 LB OF MACROFIBERS PER CUBIC YARD OF CONCRETE



TYPICAL CONTRACTION & EXPANSION JOINTS

NOTE:
FOR SPACING REQUIREMENTS SEE SECTION 618 OF ADOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2008 EDITION.

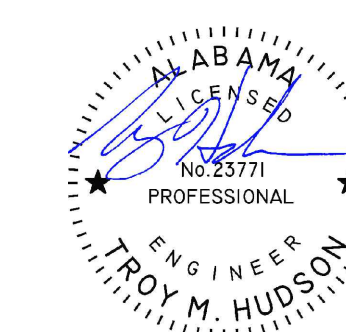


TYPICAL PERFORATED 8"X8" UNDERDRAIN CONNECTOR TEE (TOP VIEW)
N.T.S.

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SHEET TITLE : CIVIL DETAILS

MCKEE JOB # : 22.339

DRAWN BY : JAC

DATE : 10.21.24

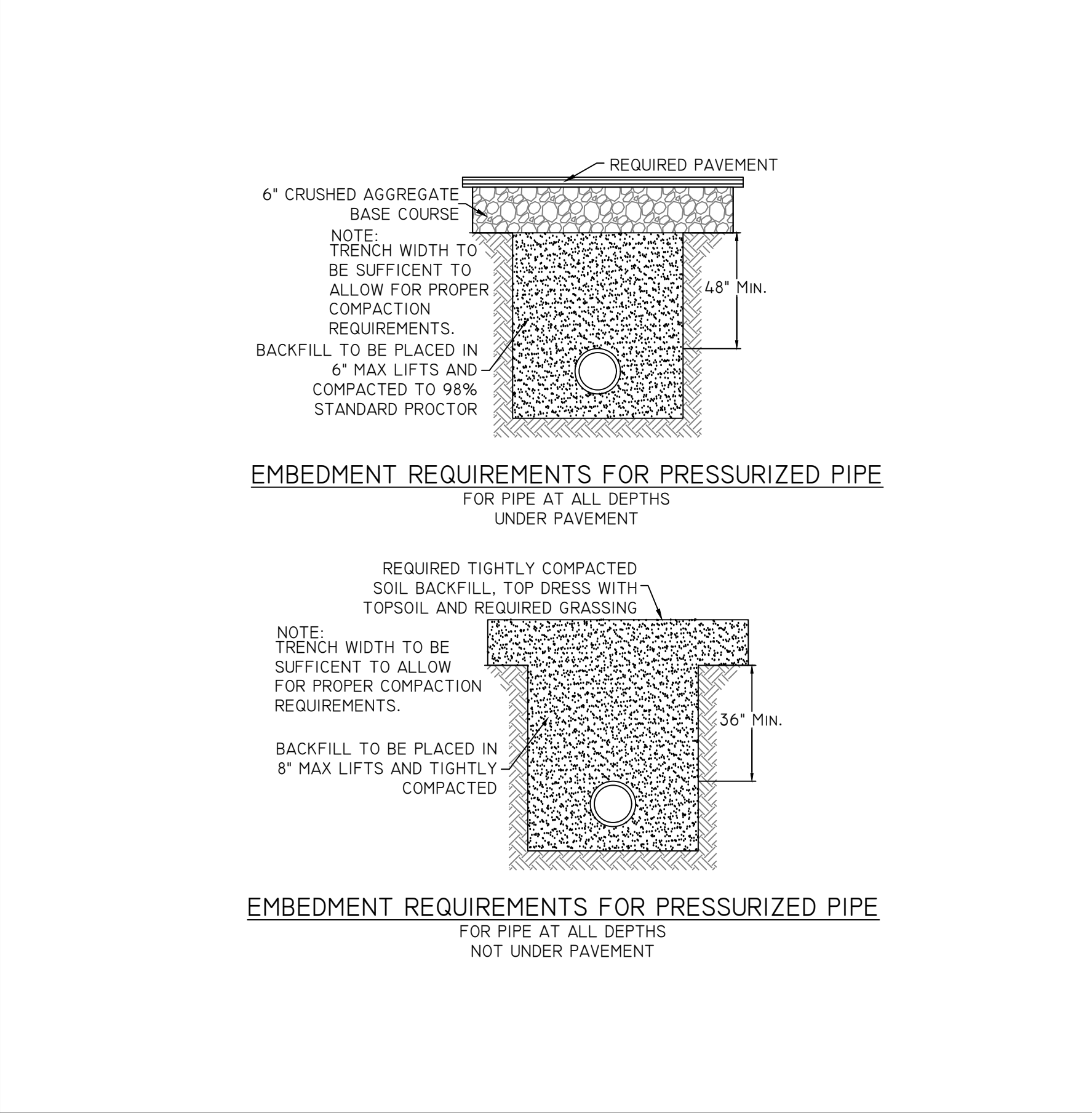
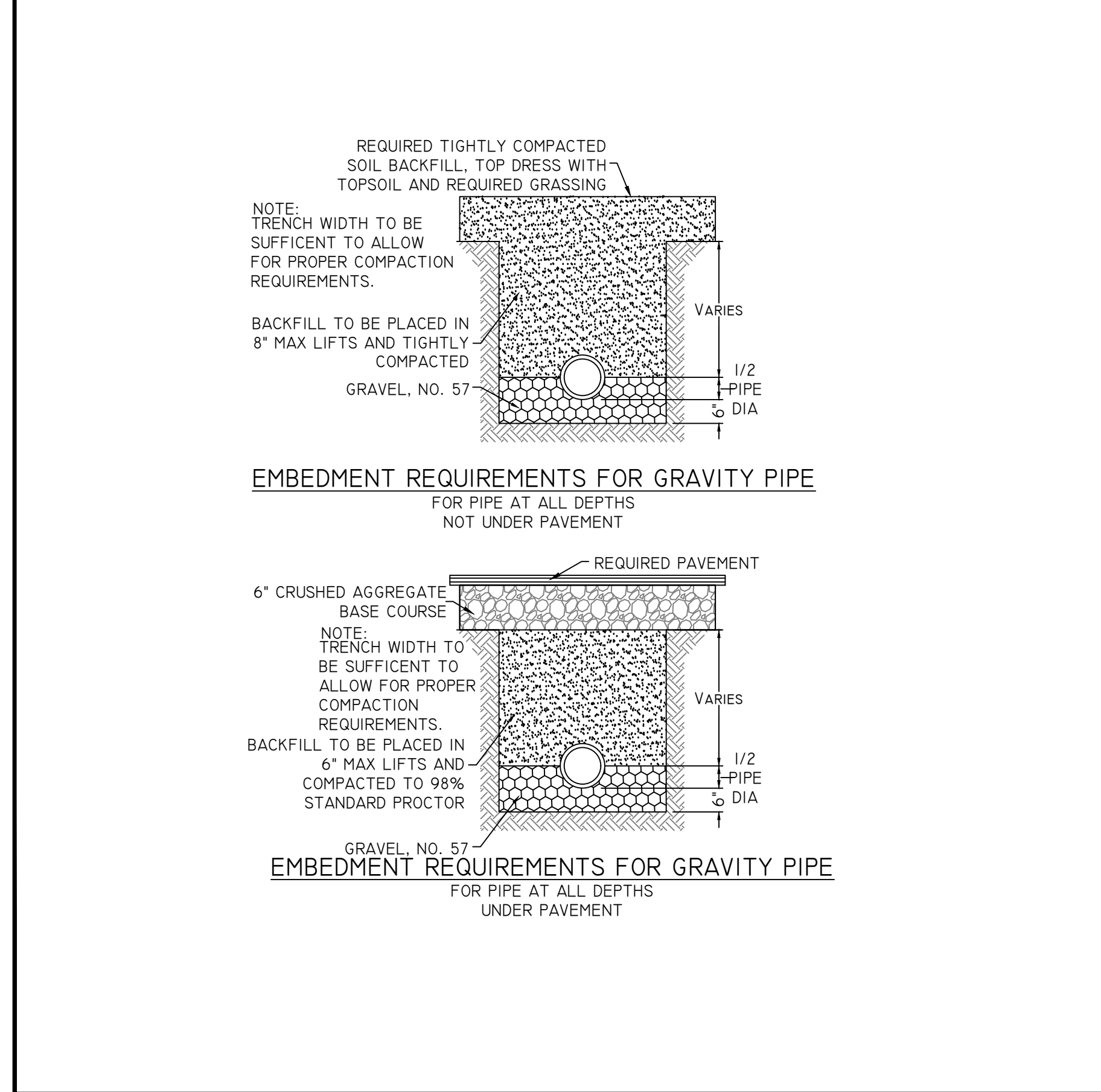
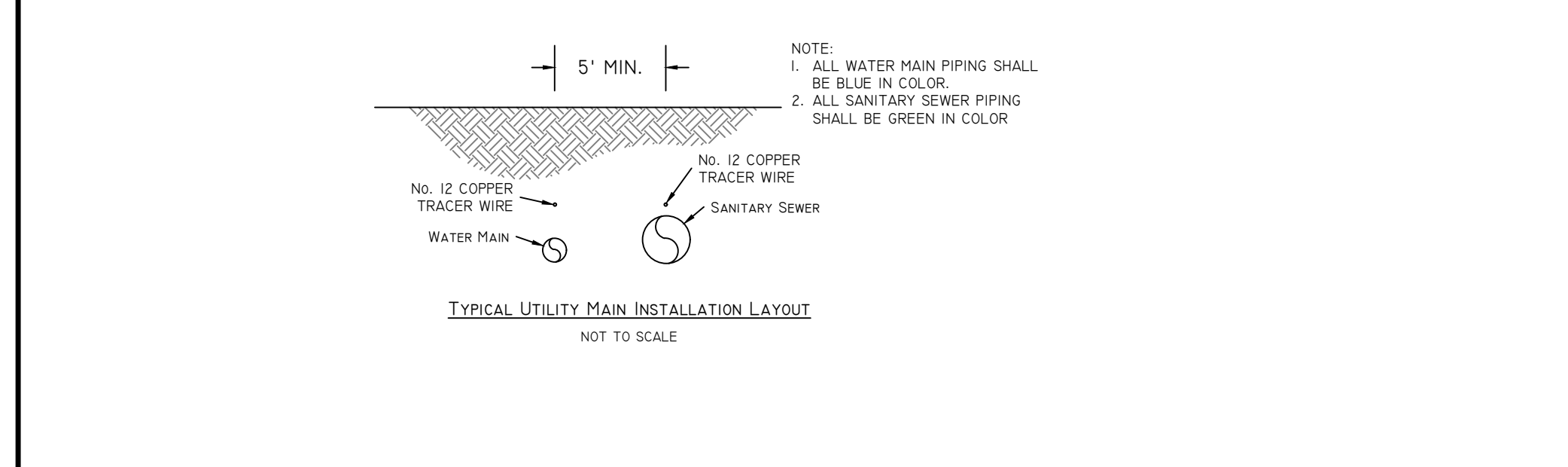
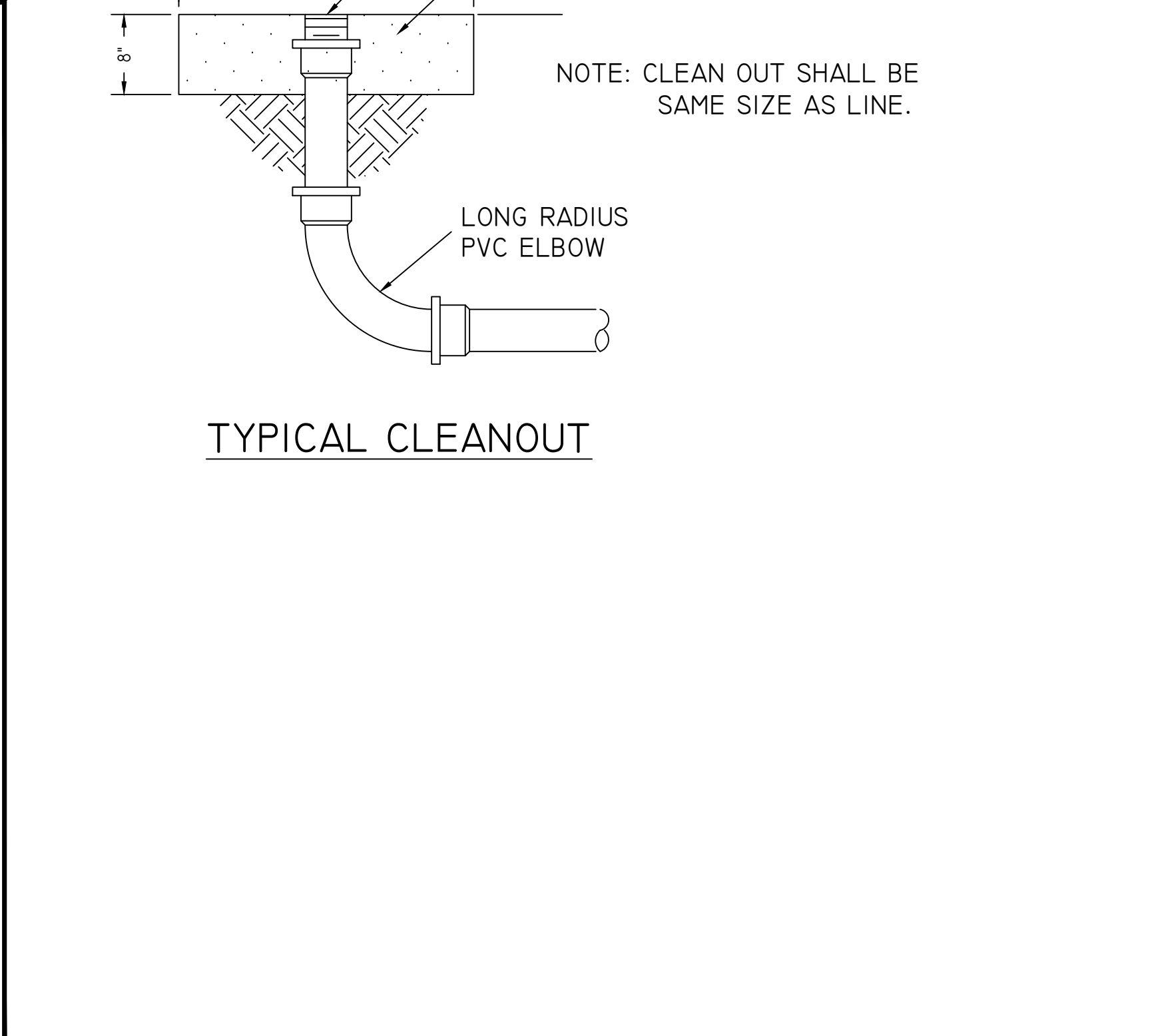
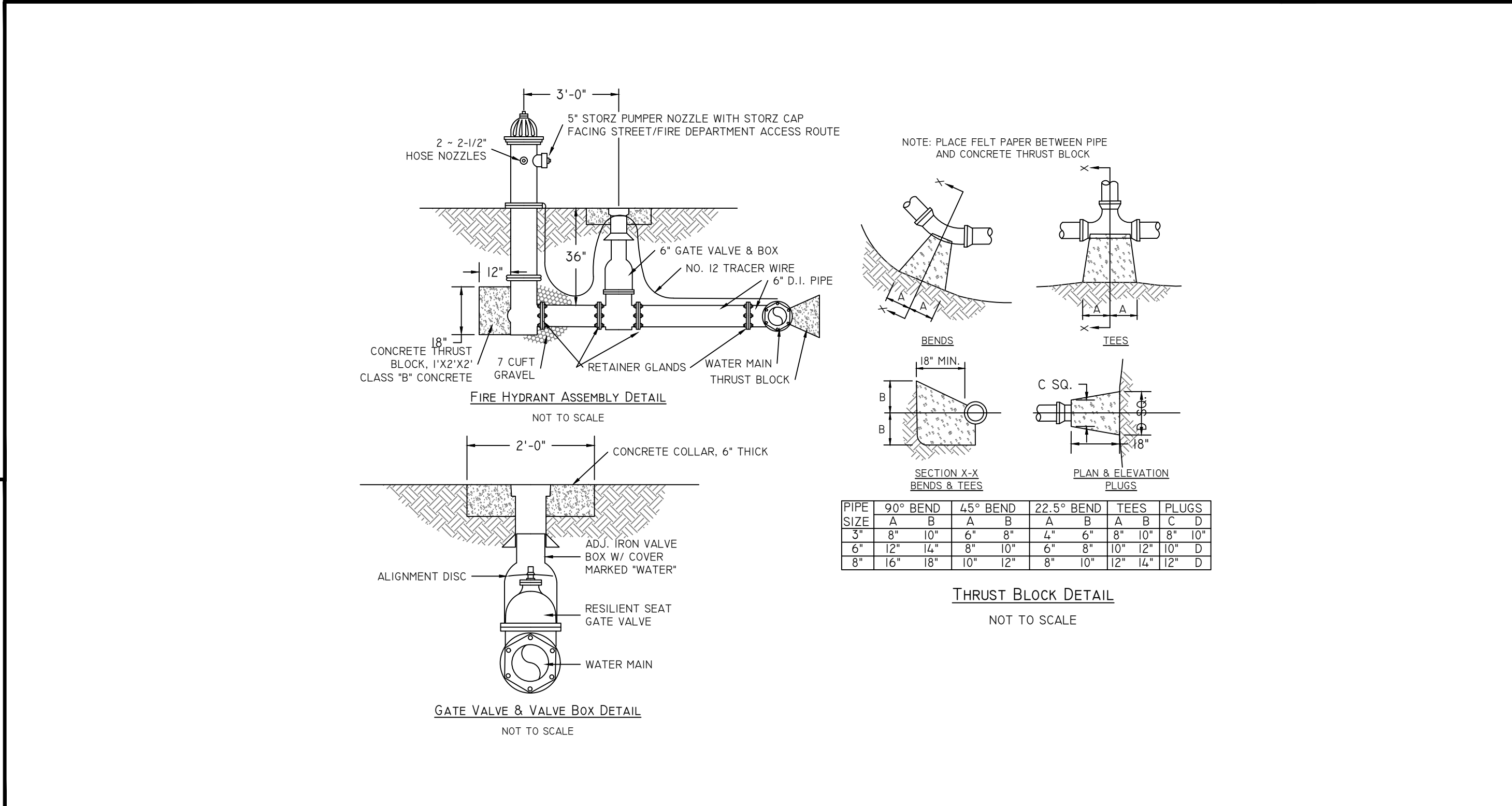
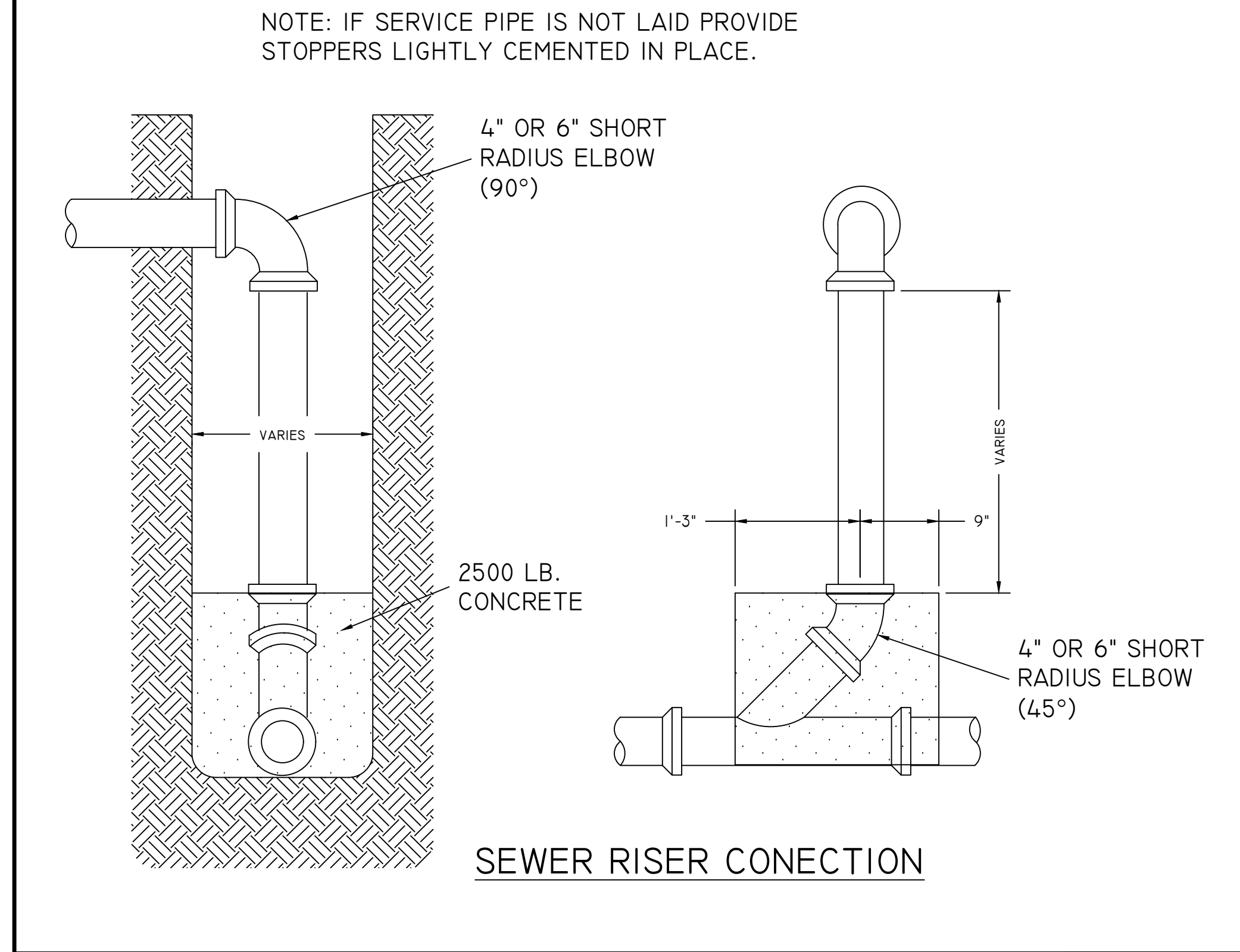
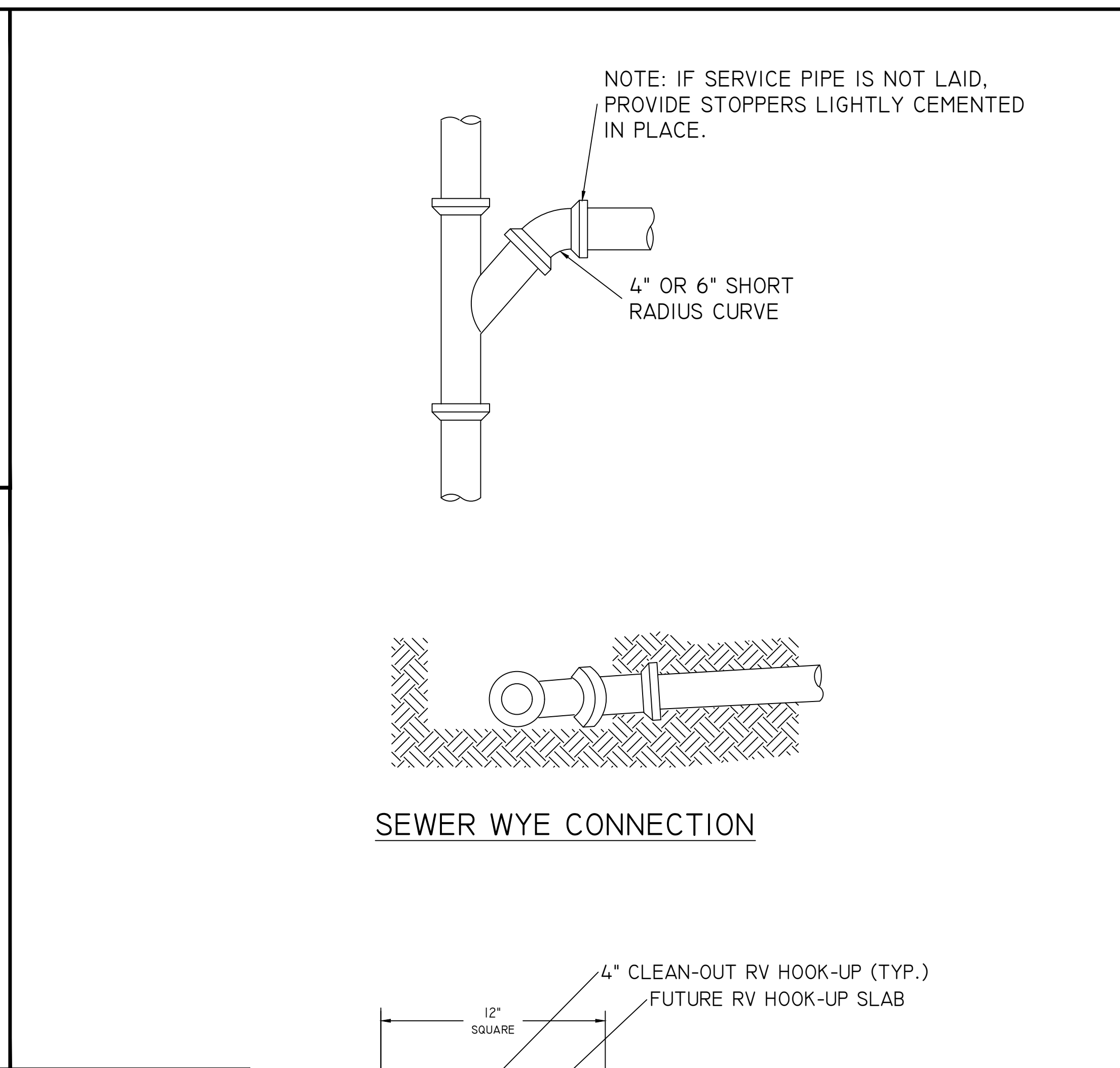
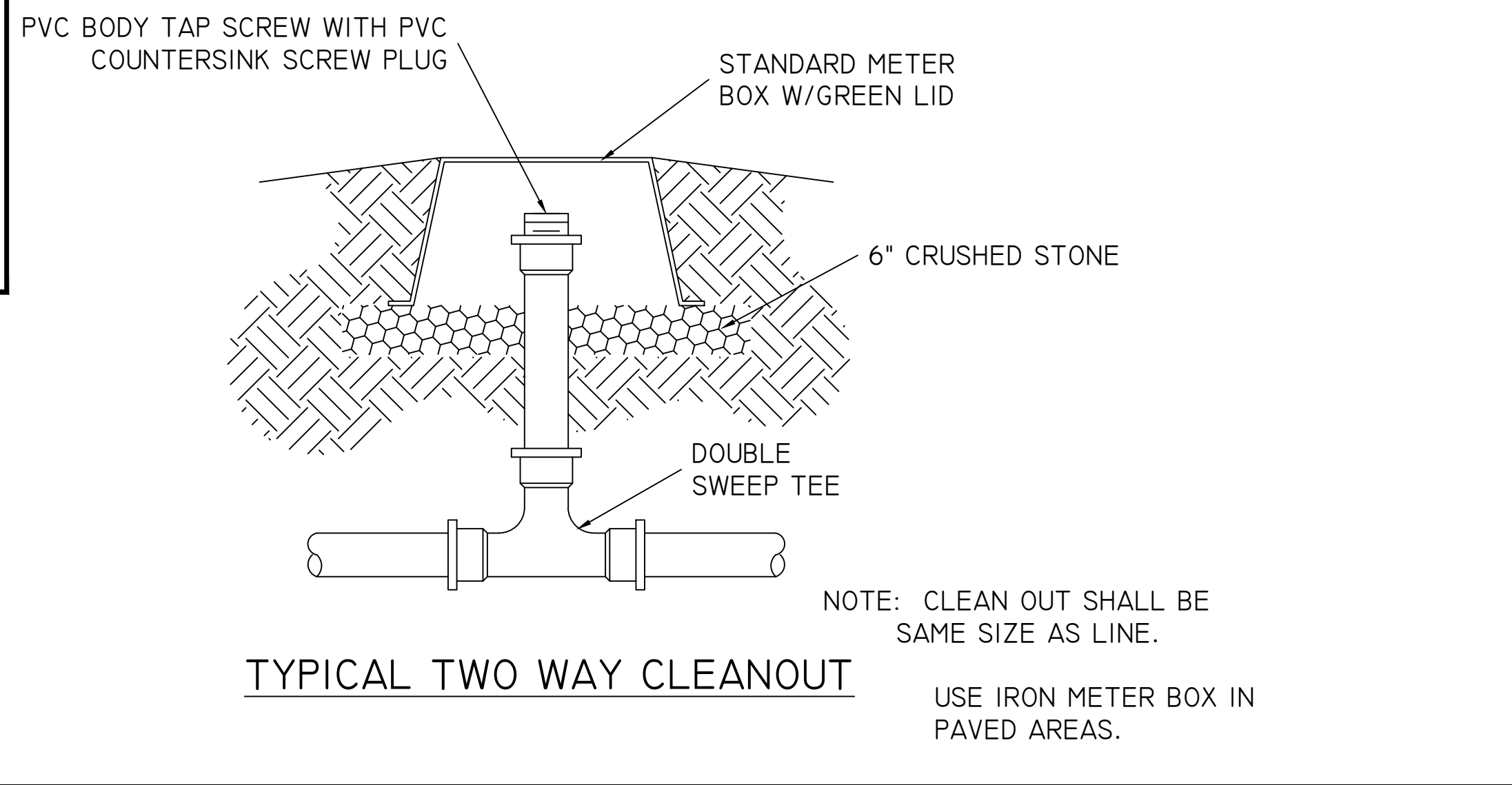
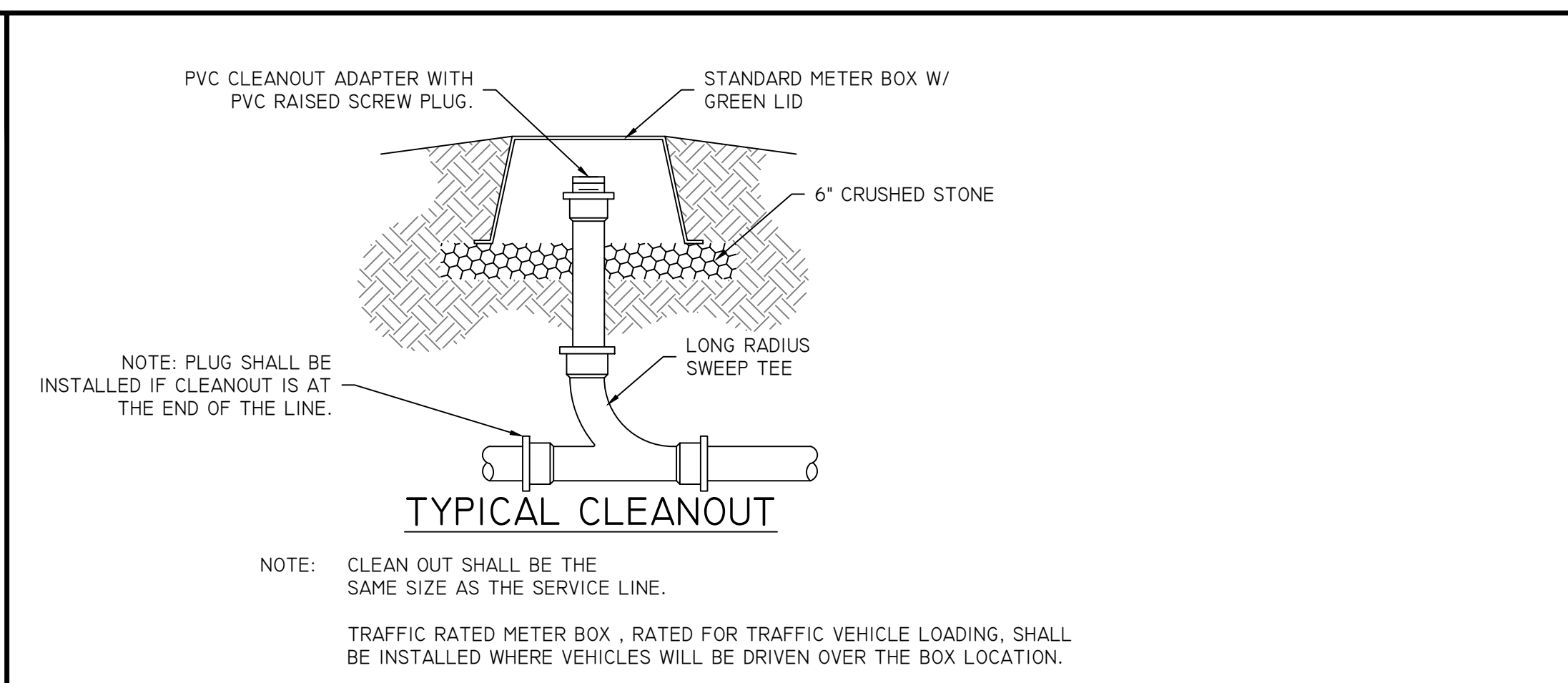
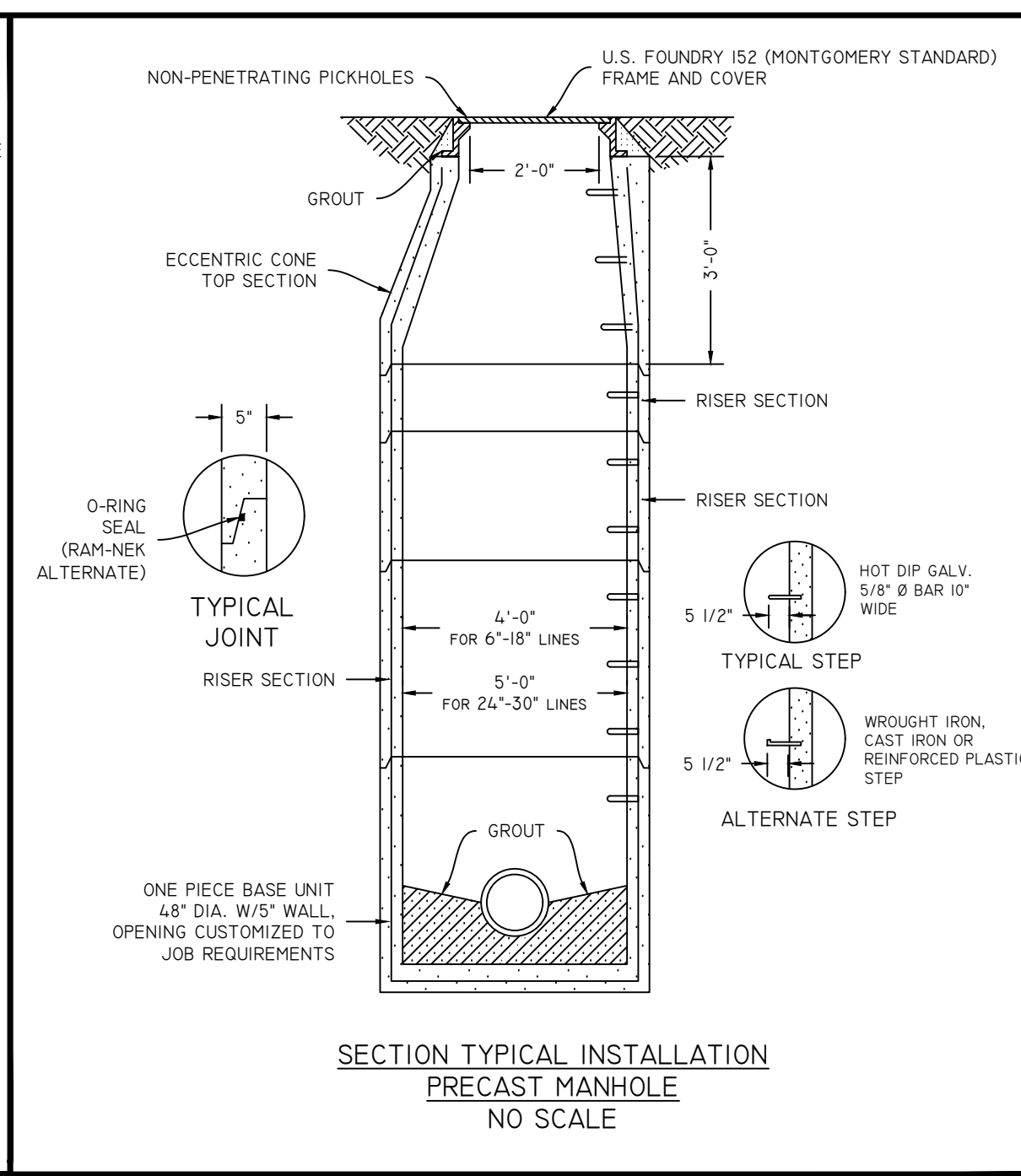
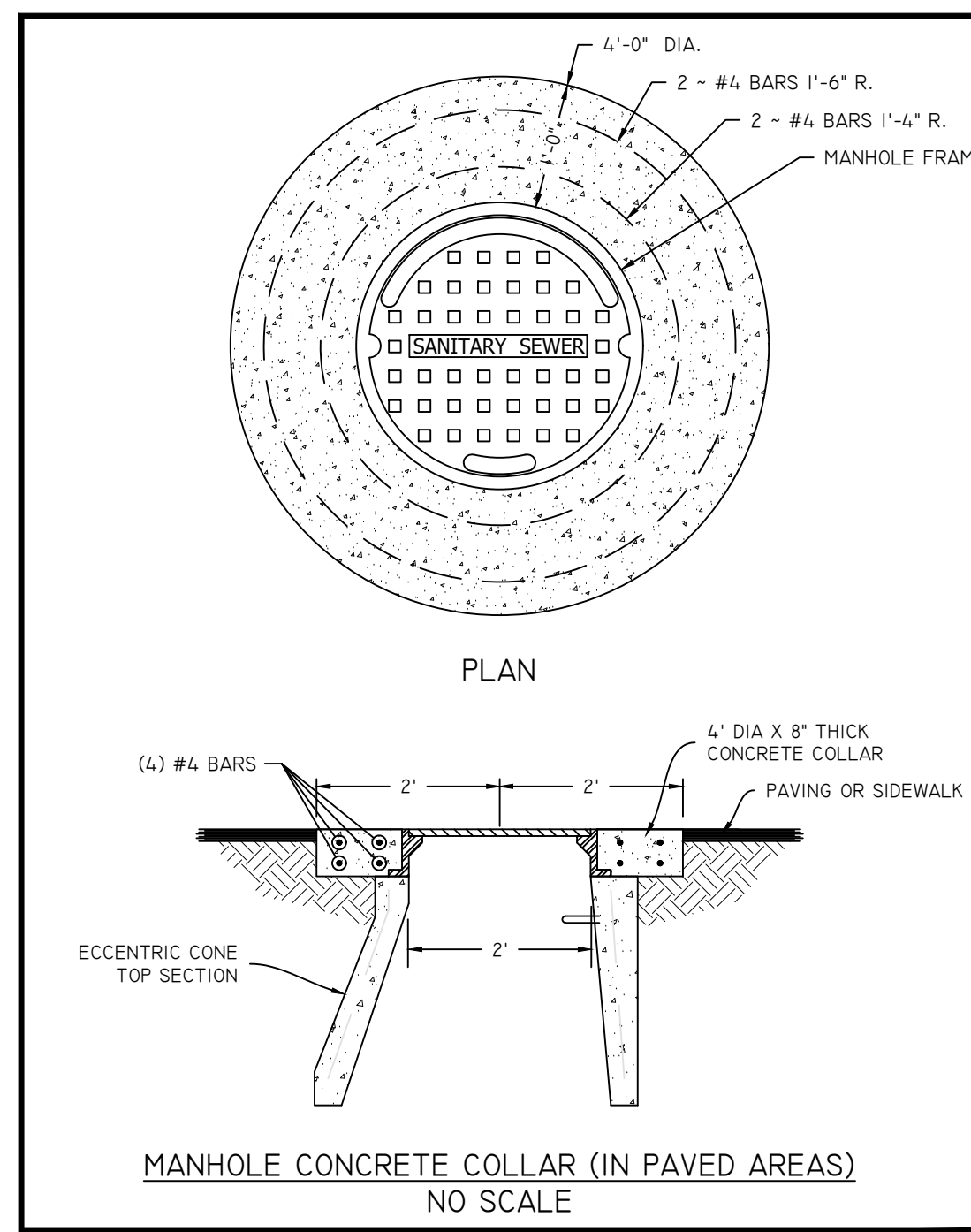
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PROFESSIONAL ENGINEER
TROY M. HUSBOLT

SHEET TITLE : CIVIL DETAILS

MCKEE JOB # : 22.339

DRAWN BY : JAC

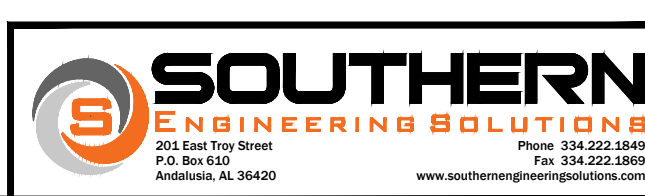
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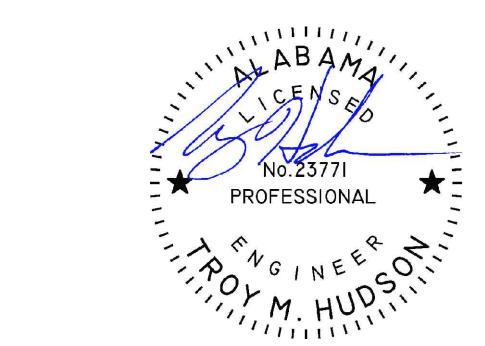
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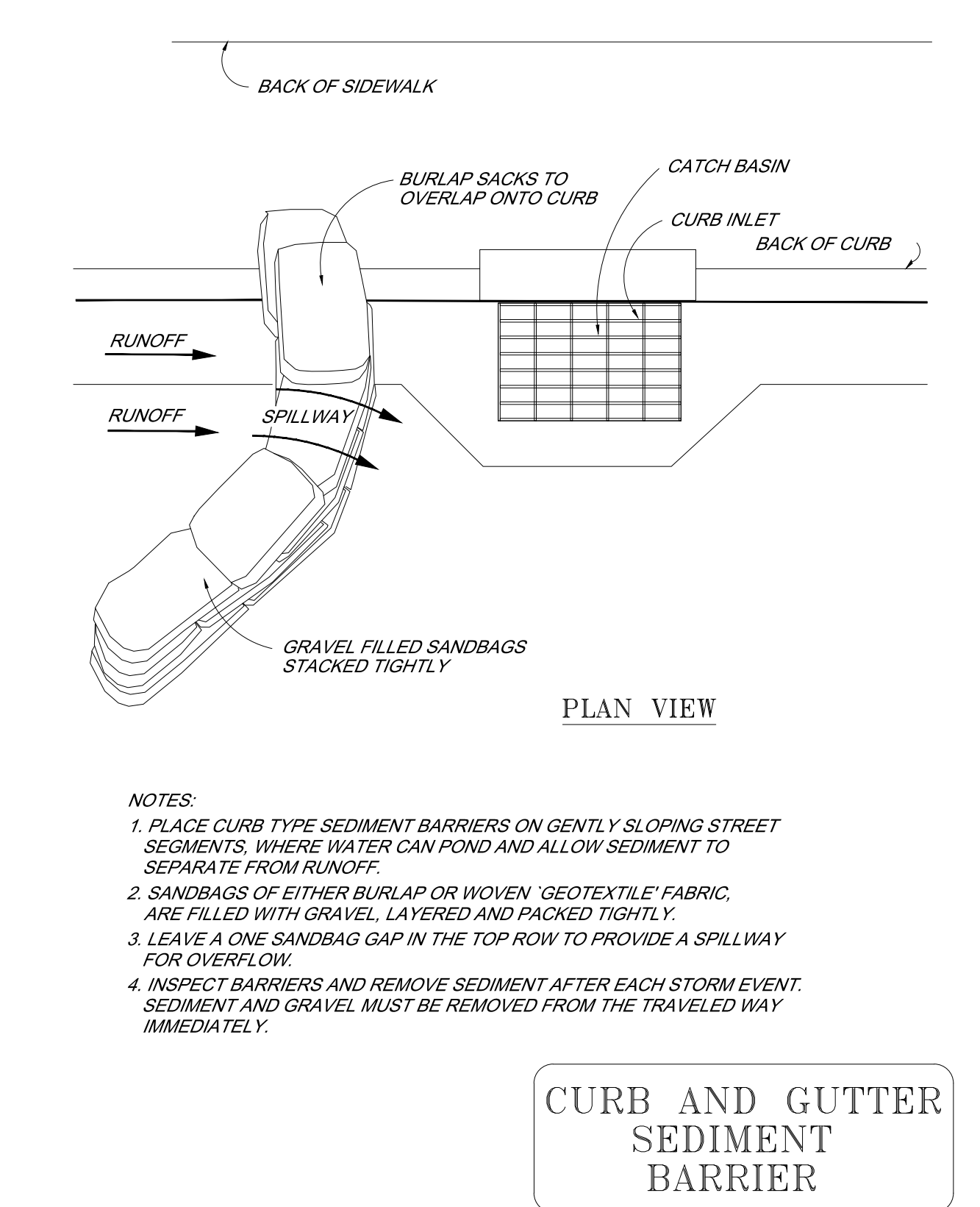
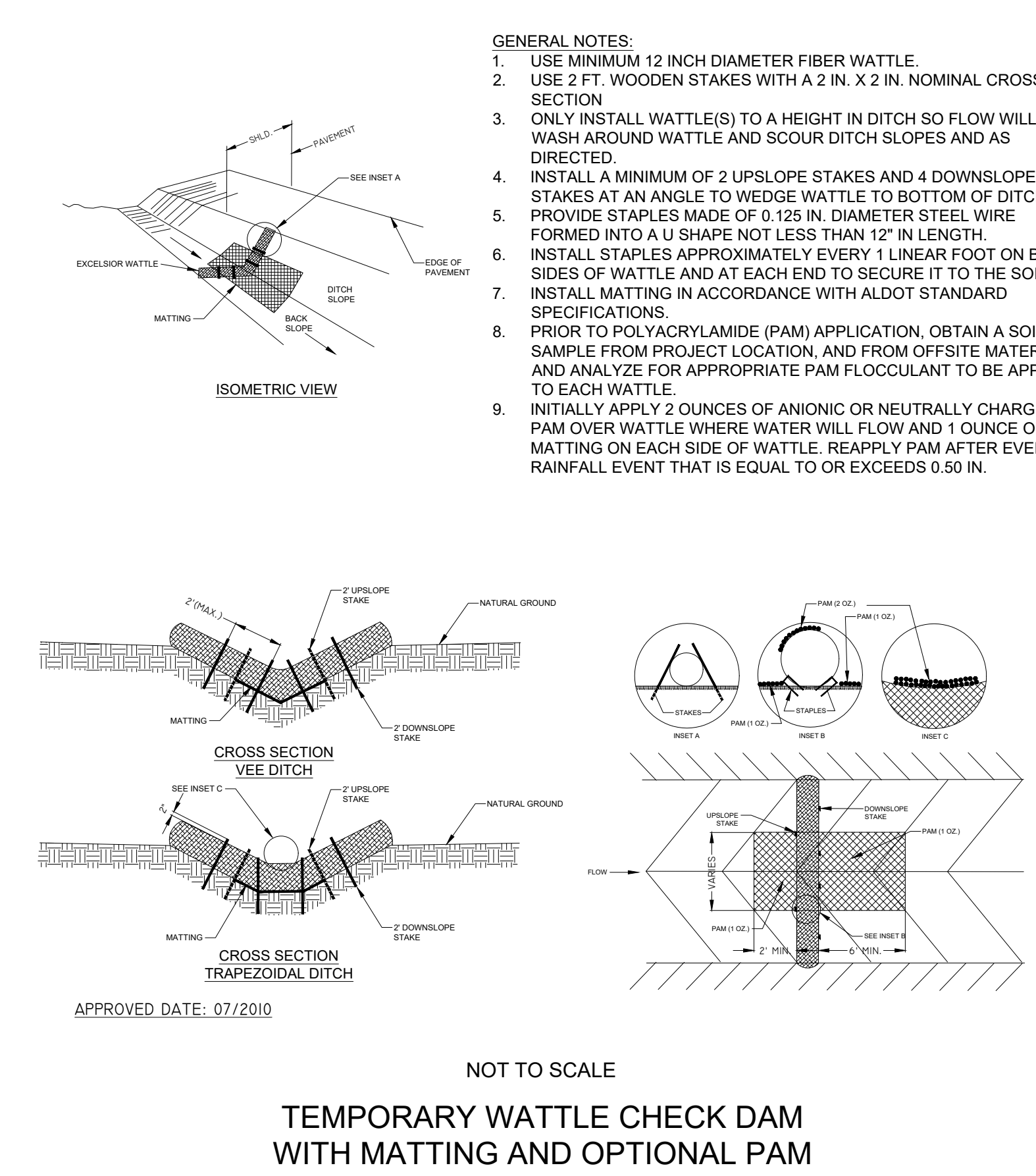
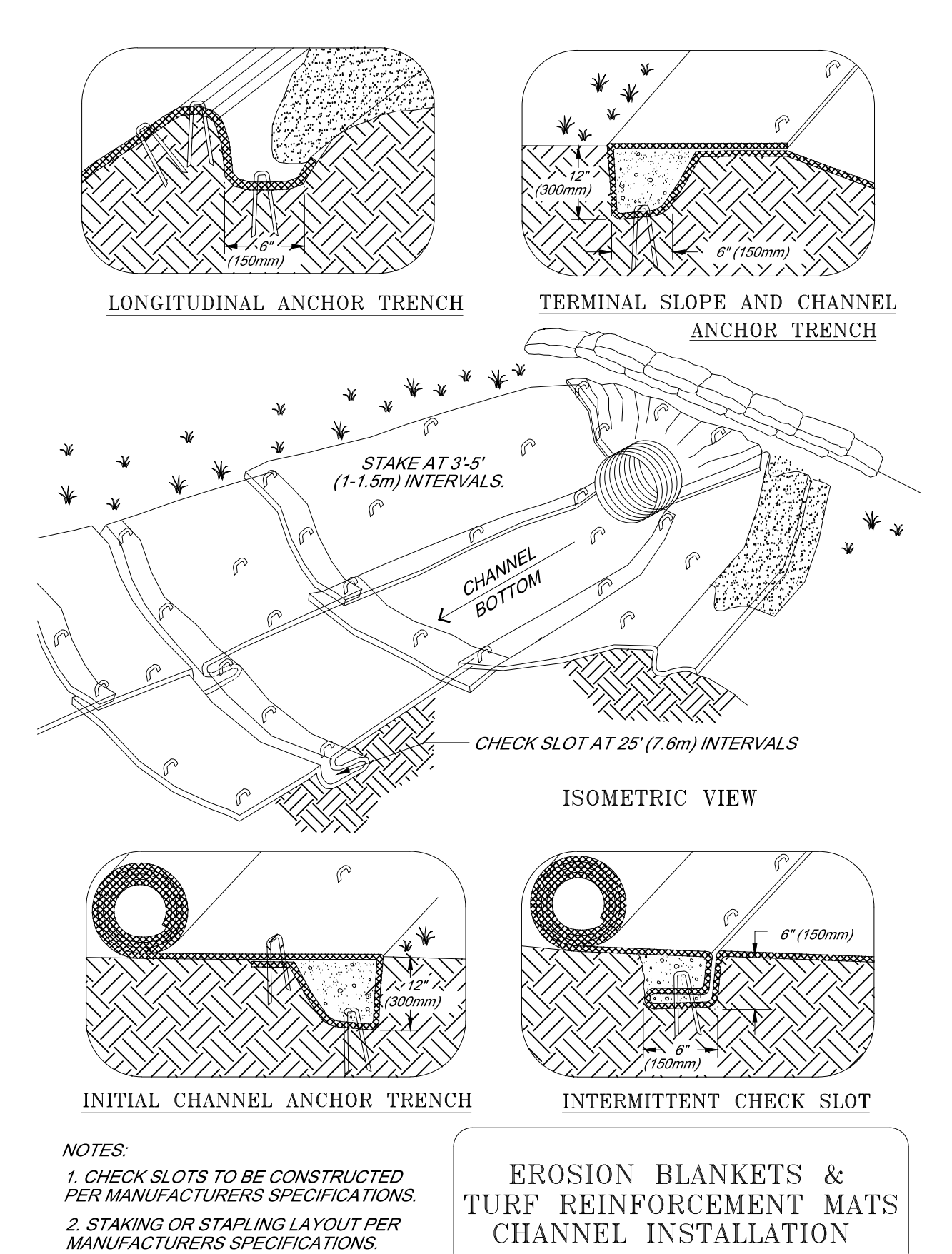
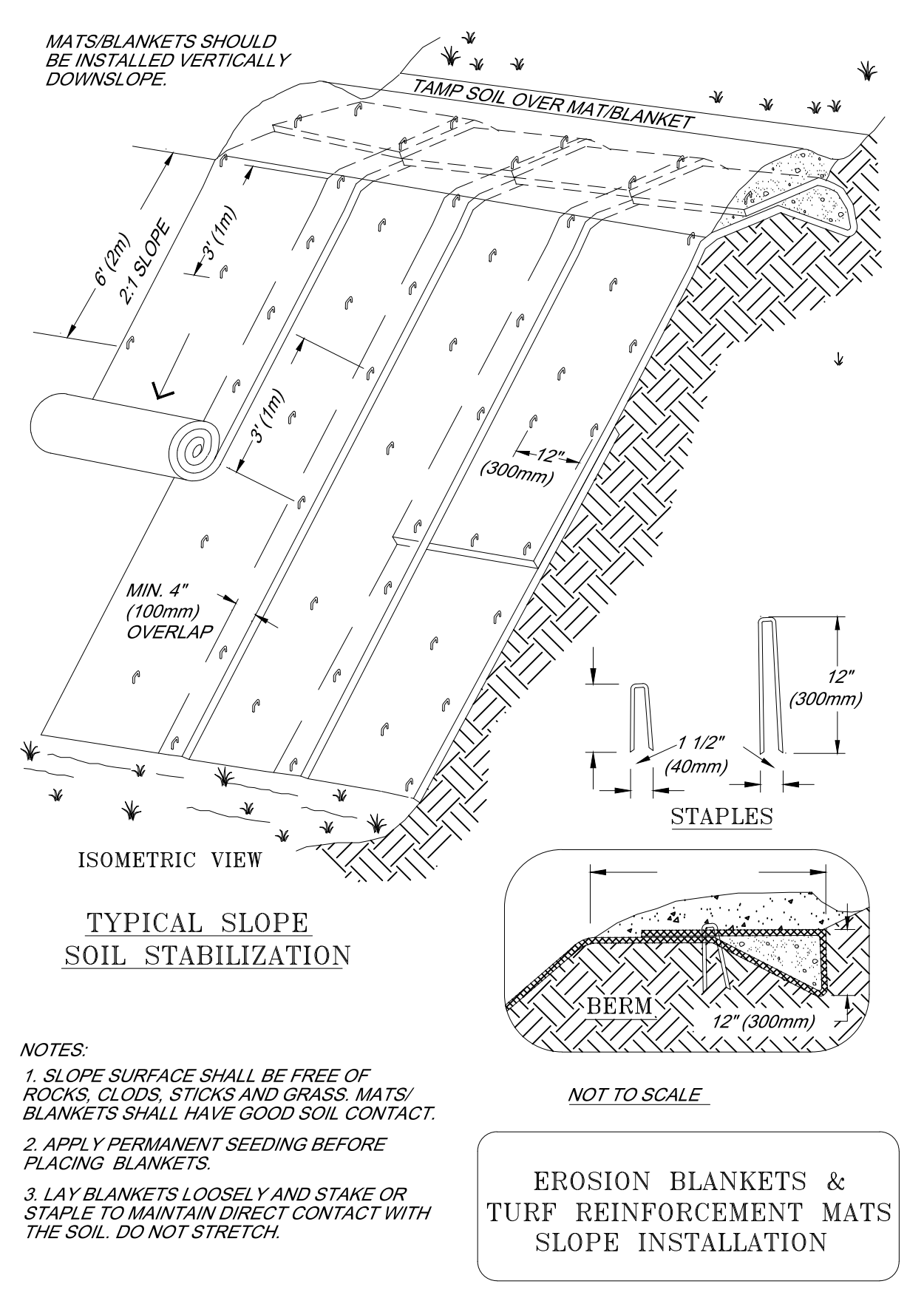
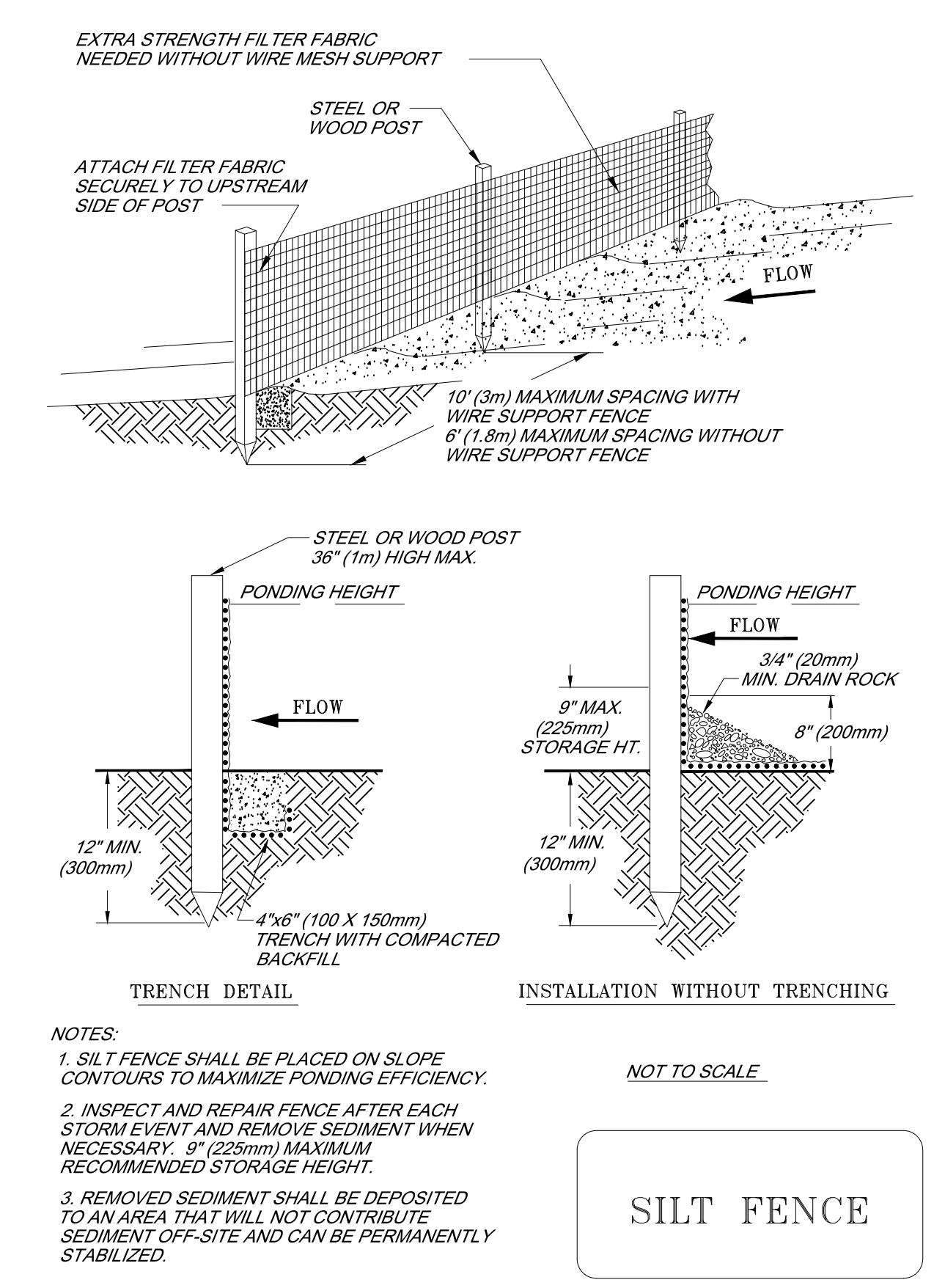
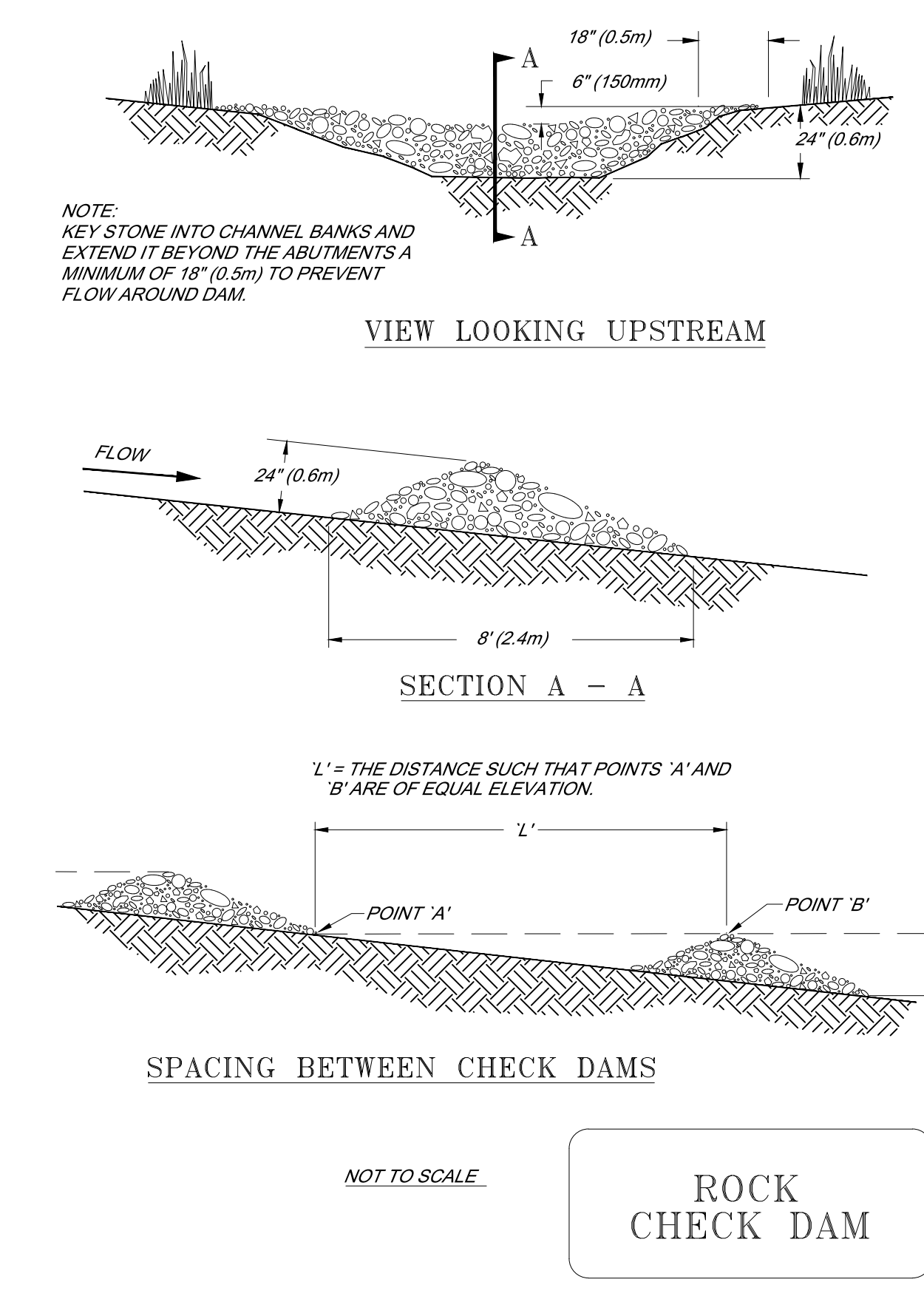


SHEET TITLE : CIVIL DETAILS

 MCKEE JOB # : 22.339

 DRAWN BY : JAC
 DATE : 10.21.24
 REVISED DATE : *
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 REVISED DATE : *

SHEET NO. : C-82



NPDES NOTES:

- THIS CONSTRUCTION BEST MANAGEMENT PLAN (CBMP) IS NOT ALL INCLUSIVE, AND MAY NEED REVISIONS AND/OR ADDITIONAL PRACTICES TO REMAIN IN COMPLIANCE WITH THE APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE BMPs ON SITE FOR THE DURATION OF THE PROJECT, AND TO ACHIEVE FINAL STABILIZATION REQUIRED FOR TERMINATION OF THE NPDES PERMIT.
- THE BMPs SHALL REMAIN IN PLACE AND BE REGULARLY MAINTAINED FOR THE DURATION OF THE PROJECT.
- ANY AREA UNDISTURBED FOR A PERIOD OF 14 DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED.
- ALL BMP INSTALLATION SHALL BE COMMENCED AS DEPICTED IN THESE DRAWINGS (& DRAWING NOTES), THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION, AND/OR APPLICABLE DRAWINGS FROM THE LATEST ADDITION OF THE ALABAMA HANDBOOK OF SEDIMENT AND EROSION CONTROL.

ESTIMATED SUMMARY OF QUANTITIES FOR MAJOR CIVIL ITEMS

Item	Description	Qty	Unit
1.	Existing Storm Drainage Pipe Removal (Sizes Vary)	2,800	LF
2.	Drainage Structure Removal	14	EA
3.	Cut & Plug Existing Storm Drain	2	EA
4.	Select Backfill (For Storm System Removal, Fire Access & Minor Grading)	3,000	CY
5.	Light Poles & Concrete Base Removal	6	EA
6.	Transformer/Power Panel Removal/Relocation	1	LS
7.	Goal Post Removal	2	EA
8.	Abandon/Remove Existing 10" Water Main	1	LS
9.	Grout Fill for Large Diameter (48") Pipe & Junction Boxes	300	CY
10.	Sod/Topsoil Stripping	3,500	CY
11.	Grading & Earthwork (Unclassified Excavation)	16,500	CY
12.	Haul Off Excess Grading Material (Estimated With Much Assumption)	15,500	CY
13.	Subgrade Processing	11,000	SY
14.	18" Corrugated HDPE Storm Drain Pipe	30	LF
15.	24" Corrugated HDPE Storm Drain Pipe	722	LF
16.	36" Corrugated HDPE Storm Drain Pipe	184	LF
17.	42" Corrugated HDPE Storm Drain Pipe	532	LF
18.	48" Class III RCP Storm Drain	54	LF
19.	Grate Inlet Box (G1)	3	EA
20.	Grate Inlet Box (G2)	14	EA
21.	Junction Box	5	EA
22.	8" HDPE Downspout Connector Piping With Tees & Connectors (Approx. 32)	850	LF
23.	8" HDPE Underdrain Connector Piping With Tees (Approx. 8)	300	LF
24.	Sanitary Sewer Manhole Adjustment	1	EA
25.	6" Gravity Sanitary Sewer Service/Wye/Cleanouts/MH Tap	1	LS
26.	10" Class 200 PVC Water Main With Fittings	1,100	LF
27.	10" Gate Valves	3	EA
28.	10" Water Main Connections/Taps	2	EA
29.	16" Steel Casing, Bored	15	LF
30.	16" Steel Casing, Open-Cut	40	LF
31.	3" Water Service With Meter & Backflow Assembly	1	LS
32.	3" Water Service Line	100	LF
33.	3" Gate Valve	1	EA
34.	Fire Hydrant Assembly	2	EA
35.	Irrigation Removal/Adjustments (Irrigation Allowance)	1	LS
36.	Concrete Fire Access Road (6" Thick)	500	SY
37.	Concrete Flume/Ditch (6" Thick)	600	SY
38.	Crushed Aggregate Base (4" Thick)	1,100	SY
39.	Solid Sodding	8,500	SY
40.	Retaining Wall (Around Electrical Vault) (See Structural Plan)	1	LS
41.	Engineering Controls/Survey/Staking	1	LS
42.	Erosion Control	1	LS

NOTE:
ALL QUANTITIES SHOWN ARE APPROXIMATE ONLY & NOT NECESSARILY ALL INCLUSIVE.
THE CONTRACTOR SHALL VERIFY THESE QUANTITIES BEFORE BIDDING.

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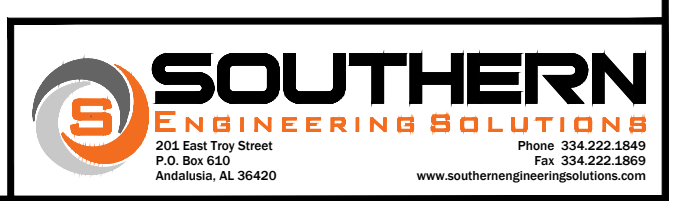
MCKEE and ASSOCIATES
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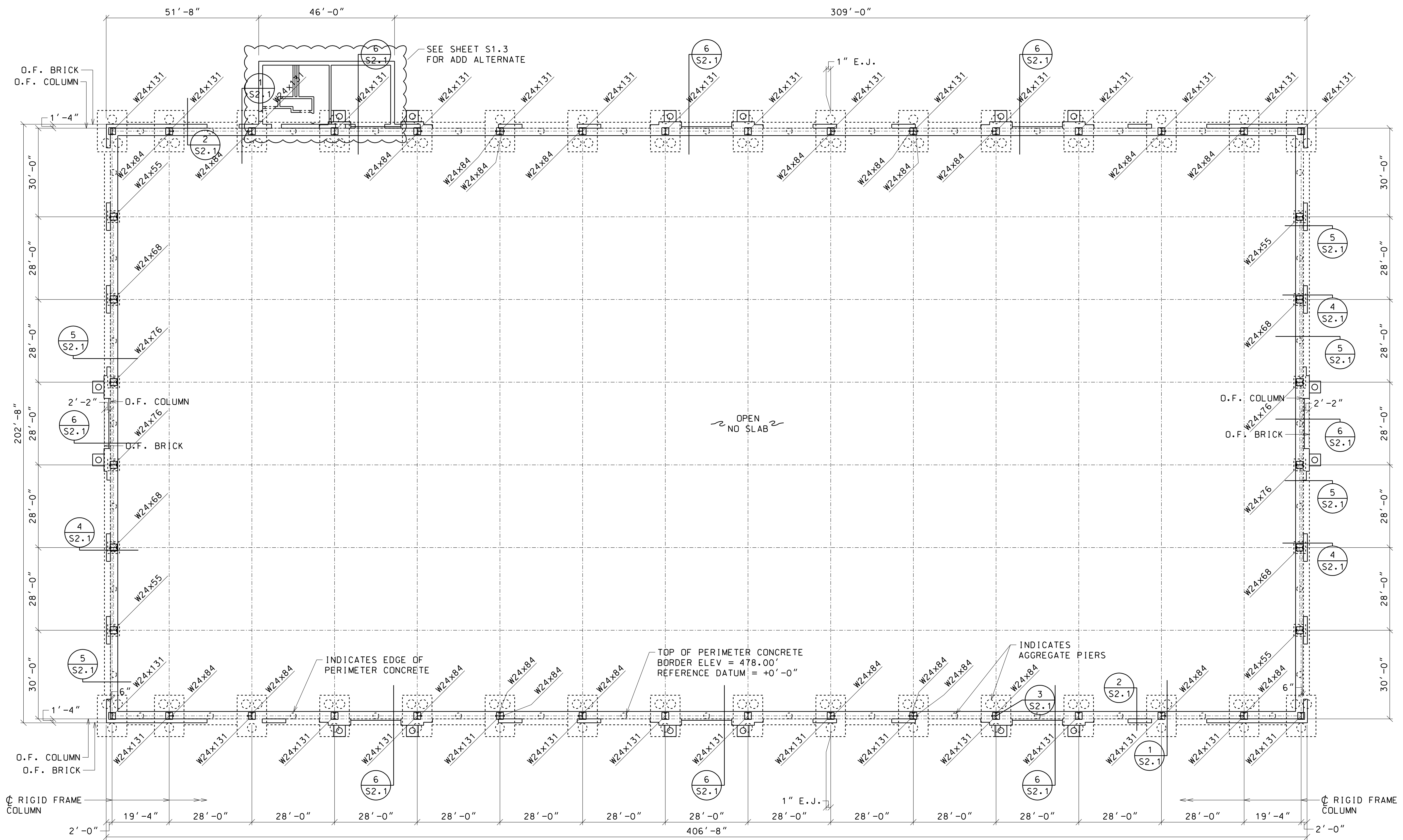
MCKEE JOB # : 22.339

DRAWN BY : JAC
DATE : 10.21.24
REVISED DATE : *
REVISED DATE : *
REVISED DATE : *



SHEET NO. : C-9.0

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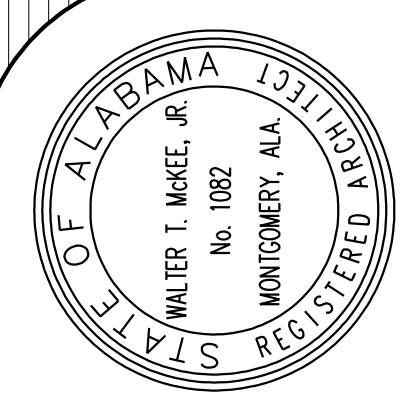


FOUNDATION PLAN — SCALE: 1/8" = 1'-0"

NOTE: ALL STRUCTURAL PLANS AND DETAILS REFLECT FABRICATED STRUCTURAL STEEL COMPONENTS. AN EQUIVALENT PREENGINEERED METAL BUILDING DESIGN CAN BE USED AS A CONTRACTORS OPTION. ALL MEMBER DEPTHS MUST BE EQUAL OR SMALLER.

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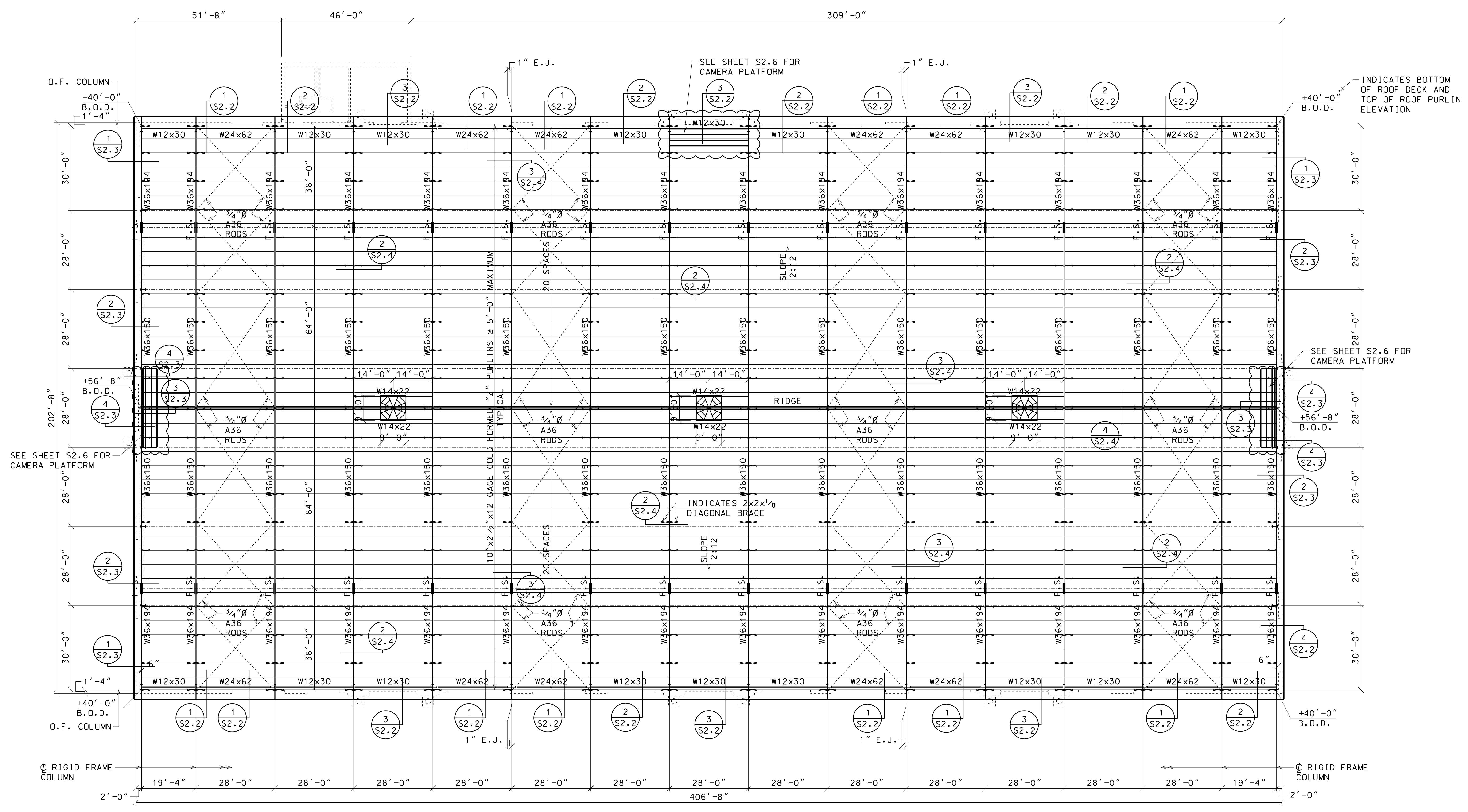


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 DRAWN BY : RLD
 DATE : 10.16.24
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : S1.1



GORDON L. DAVIS
 STRUCTURAL ENGINEERING CONSULTANT
 P.O. BOX 241371
 MONTGOMERY, ALABAMA 36124-1371
 (334) 213-3070 FAX (334) 213-4020

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 Model View - S1.2-Roof
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 30x42 Sheet



ROOF FRAMING PLAN — SCALE: 1/8"=1'-0"

NOTE: ALL STRUCTURAL PLANS AND DETAILS REFLECT FABRICATED STRUCTURAL STEEL COMPONENTS. AN EQUIVALENT PREENGINEERED METAL BUILDING DESIGN CAN BE USED AS A CONTRACTORS OPTION. ALL MEMBER DEPTHS MUST BE EQUAL OR SMALLER.

ROOF CONSTRUCTION

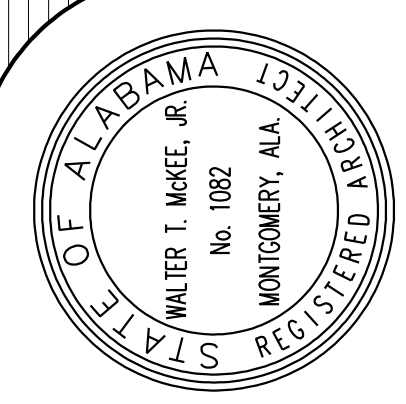
STANDING SEAM METAL ROOF OVER
 10"x2 1/2"x12 GAGE COLD FORMED "Z"
 PURLINS SPACED AT 5'-0" MAXIMUM

ROOF PURLIN PROPERTIES

DESIGNATION	Ix	Sx	Ma
10Z105	24.522 IN ⁴	4.903 IN ³	161.52 IN-K

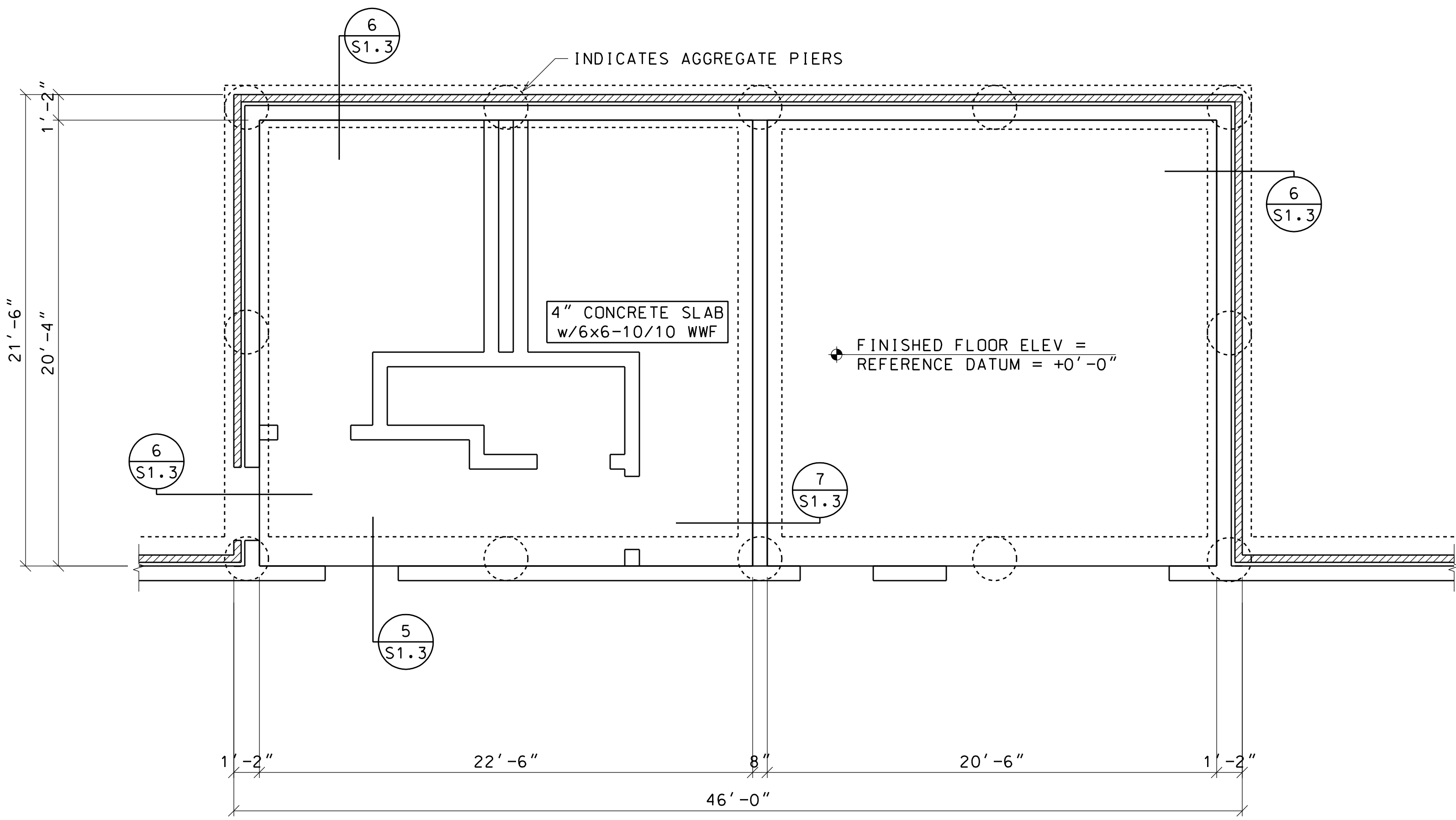
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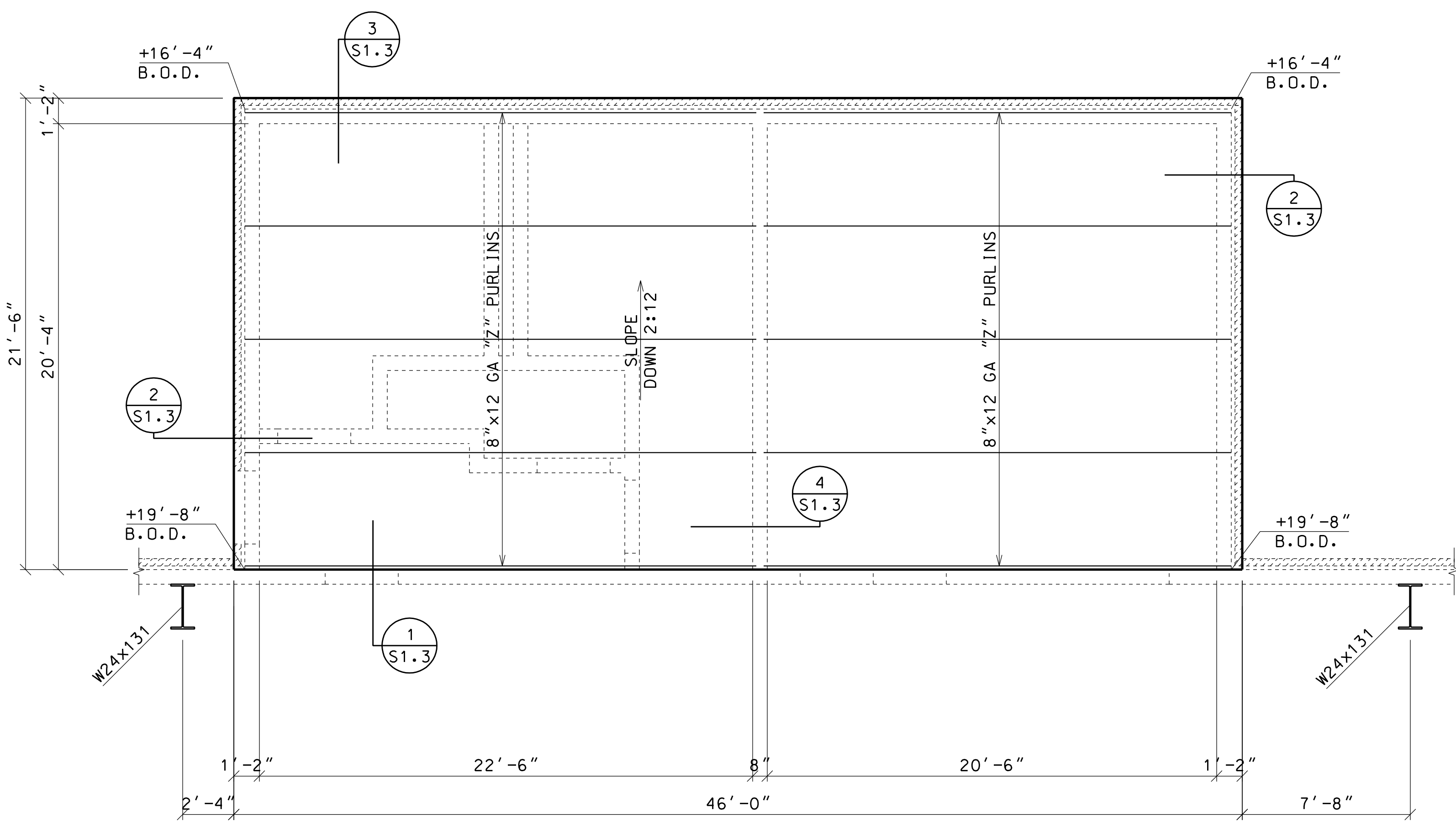


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 JOB NO. : 22359
 DRAWN BY : RLD
 DATE : 10.16.24
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : S1.2

10/16/2024
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 MONTGOMERY, ALABAMA 36124-1371
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FOUNDATION PLAN — SCALE: 1/4"=1'-0"

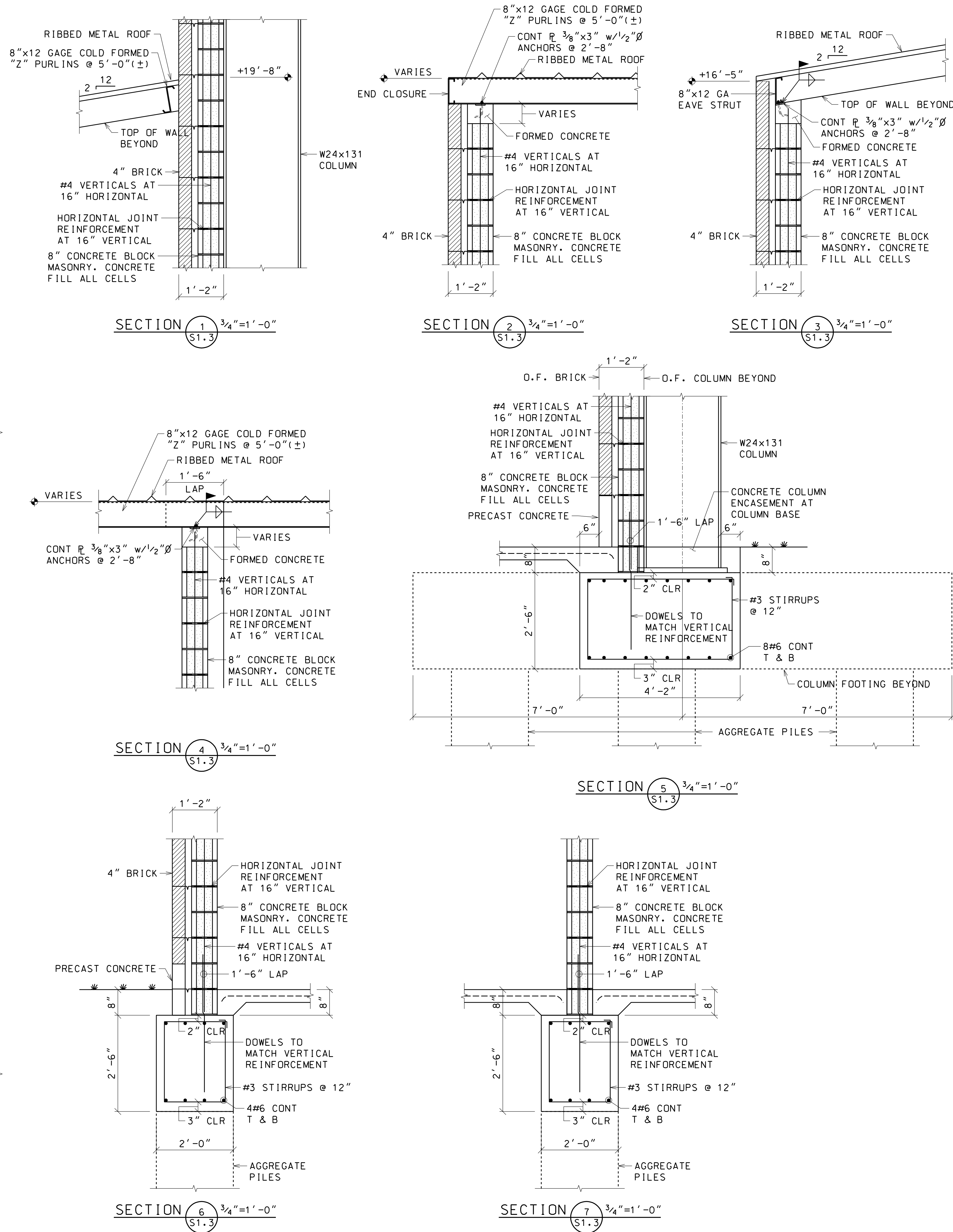


ROOF FRAMING PLAN — SCALE: 1/4"=1'-0"

ROOF CONSTRUCTION	
STANDING SEAM METAL ROOF OVER 8"x14 GAGE COLD FORMED "Z" PURLINS SPACED AT 5'-0" MAXIMUM	

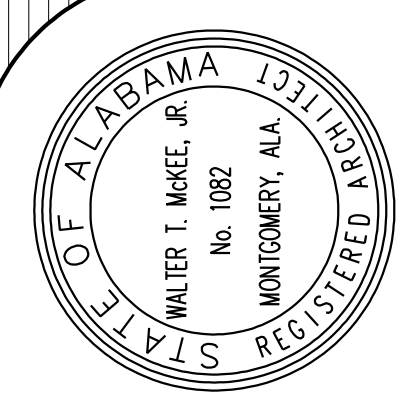
ROOF PURLIN PROPERTIES			
DESIGNATION	I _x	S _x	M _a
08Z099	13.606 IN ⁴	3.402 IN ³	112.03 IN-K

NOTE: ALL STRUCTURAL PLANS AND DETAILS REFLECT FABRICATED STRUCTURAL STEEL COMPONENTS. AN EQUIVALENT PREENGINEERED METAL BUILDING DESIGN CAN BE USED AS A CONTRACTORS OPTION. ALL MEMBER DEPTHS MUST BE EQUAL OR SMALLER.



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SHEET TITLE : TOILET BUILDING FOUNDATION PLAN AND ROOF FRAMING PLAN
JOB NO. : 22359
DRAWN BY : RLD
DATE : 10.16.24
REVISED DATE :
REVISED DATE :
REVISED DATE :
SHEET NO. : S1.3

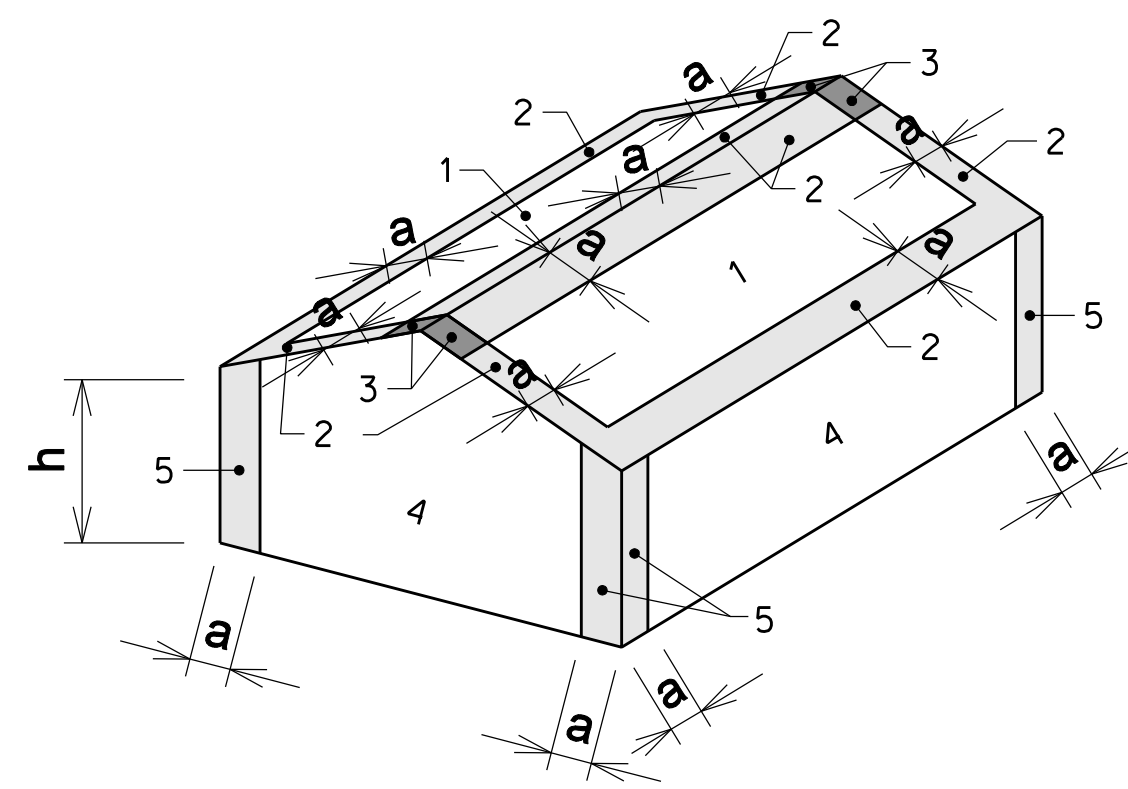
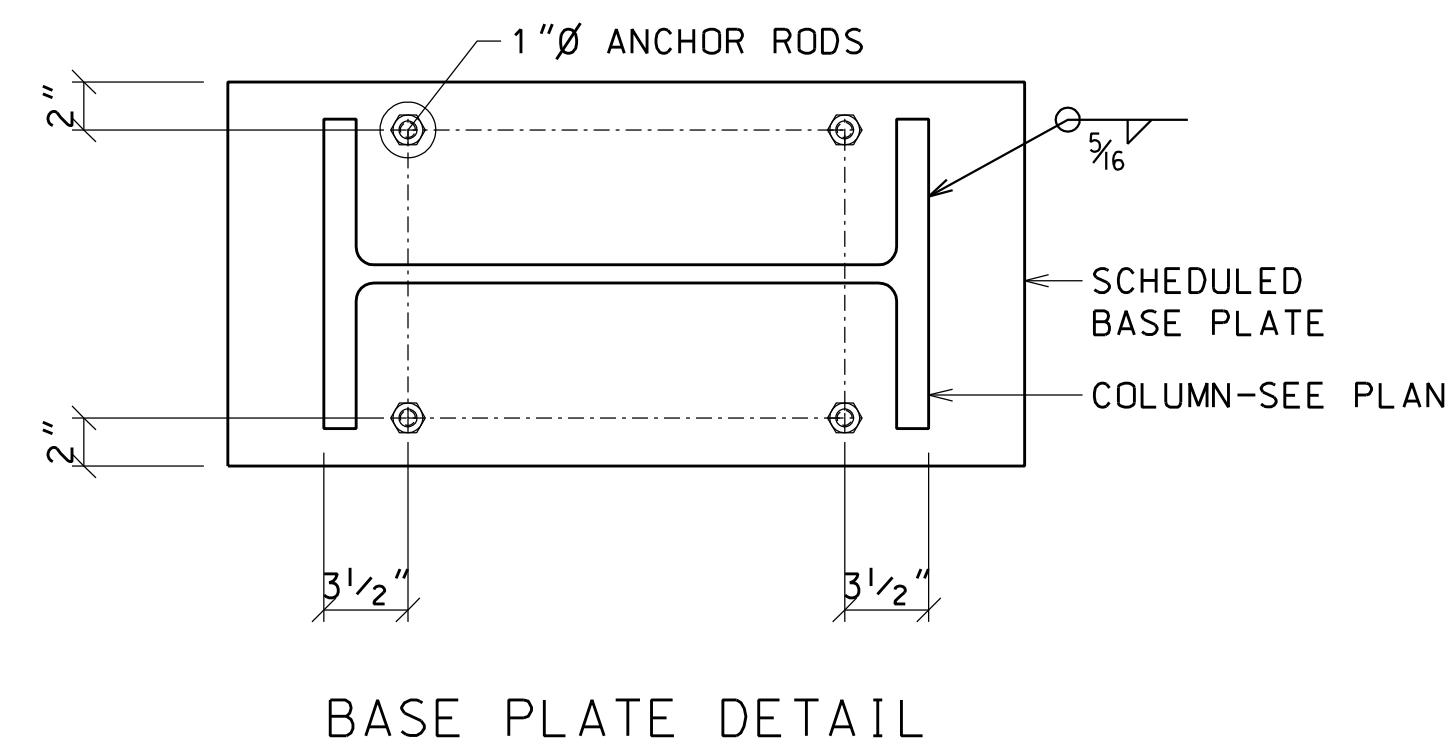
ALABAMA REGISTERED PROFESSIONAL ENGINEER
GORDON L. DAVIS
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(334) 213-3070 FAX (334) 213-4020
10/16/2024

COLUMN	BASE PLATE
W24x176	1" x 18" x 2' - 4"
W24x84	1" x 10" x 2' - 4"
W24x55	1" x 8" x 2' - 4"
W24x68	1" x 10" x 2' - 4"
W24x76	1" x 10" x 2' - 4"

MARK	MAX. OPENING	WALL THICKNESS	LINTEL
L-1	3' - 4"	1' - 2"	8x8 U-BLOCK w/1-#5 T & B w/L5x5x3/8
L-2	3' - 4"	8"	8x8 U-BLOCK w/1-#5 T & B
L-3	10' - 0"	1' - 2"	W8x24 w/R 3/8" x 14"
	14' - 8"	1' - 2"	W16x31 w/R 3/8" x 14"
	18' - 8"	1' - 2"	W16x31 w/R 3/8" x 14"

NOTES:

- CONCRETE FILL ALL JAMB CELLS FROM FOUNDATION TO LINTEL BEARING.
- BEAR 8 INCHES MINIMUM EACH END



WIND PRESSURE DIAGRAM FOR COMPONENTS & CLADDING

AREA (FT ²)	ROOF					WALL				
	1	2	3	4	5	1	2	3	4	5
10	+ 18.9 psf	- 47.2 psf	+ 18.9 psf	- 78.7 psf	+ 18.9 psf	+ 94.4 psf	+ 28.3 psf	- 31.2 psf	+ 28.3 psf	- 40.0 psf
20	+ 18.4 psf	- 46.1 psf	+ 18.4 psf	- 74.1 psf	+ 18.4 psf	+ 88.8 psf	+ 26.8 psf	- 29.7 psf	+ 26.8 psf	- 36.7 psf
50	+ 16.9 psf	- 42.6 psf	+ 16.9 psf	- 60.5 psf	+ 16.9 psf	+ 72.1 psf	+ 24.8 psf	- 27.7 psf	+ 24.8 psf	- 32.7 psf
100	+ 14.4 psf	- 36.8 psf	+ 14.4 psf	- 37.8 psf	+ 14.4 psf	+ 44.1 psf	+ 23.3 psf	- 26.2 psf	+ 23.3 psf	- 29.7 psf
500	+ 10.0 psf	- 25.2 psf	+ 10.0 psf	- 37.8 psf	+ 10.0 psf	+ 44.1 psf	+ 19.8 psf	- 22.7 psf	+ 19.8 psf	- 22.7 psf

NOTES:

- a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3 FEET.
- h: MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES OR SLOPES < 10°.
- PRESSURES SHOWN ARE APPLIED NORMAL (PERPENDICULAR) TO THE SURFACE.
- PLUS SIGNS SIGNIFY PRESSURES INWARD.
- MINUS SIGNS SIGNIFY PRESSURES ACTING OUTWARD (SUCTION).
- PRESSURES INDICATED ARE FOR COMBINATIONS OF EXTERNAL AND INTERNAL PRESSURES.
- WIND PRESSURES ARE BASED UPON CHAPTER 30 - PART 1 (LOW RISE BUILDINGS) ASCE 7-22.
- PRESSURES INDICATED ARE BASED UPON WIND VELOCITIES INDICATED IN CHAPTER 26 - ASCE 7-22 AND ARE FOR STRENGTH DESIGN. MULTIPLY WIND PRESSURE SHOWN BY 0.77 FOR ALLOWABLE STRESS DESIGN PRESSURES.

APPLICABLE CODES AND SPECIFICATIONS

INTERNATIONAL BUILDING CODE - 2021
 AMERICAN CONCRETE INSTITUTE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 AMERICAN IRON AND STEEL INSTITUTE
 AMERICAN SOCIETY FOR TESTING AND MATERIALS
 AMERICAN WELDING SOCIETY
 ASCE/SEI 7-22 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 NATIONAL CONCRETE MASONRY ASSOCIATION
 PRESTRESSED CONCRETE INSTITUTE

DESIGN LOADS

- ROOF LIVE LOAD (ON HORIZONTAL PROJECTION)
 FOR MEMBERS SUPPORTING 0-200 SQ. FT. 20 psf
 FOR MEMBERS SUPPORTING 200-500 SQ. FT. 15 psf
 FOR MEMBERS SUPPORTING MORE THAN 500 SQ. FT. 12 psf
- GROUND SNOW LOAD (Pg) 5 psf
 SNOW EXPOSURE FACTOR (Ce) 0.90
 SNOW LOAD IMPORTANCE FACTOR (I) 1.00
 THERMAL FACTOR (Ct) 1.00
- WIND LOAD
 ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) (Vult) 115 mph
 NOMINAL DESIGN WIND SPEED (3-SECOND GUST) (V) 89 mph
 WIND IMPORTANCE FACTOR (I) 1.00
 WIND EXPOSURE FACTOR (Kzt) 1.00
 INTERNAL PRESSURE COEFFICIENT 0.00
 COMPONENTS AND CLADDING SEE DIAGRAM
- EARTHQUAKE DESIGN DATA
 SEISMIC USE GROUP II
 SPECTRAL RESPONSE COEFFICIENT SHORT PERIODS 0.108
 SPECTRAL RESPONSE COEFFICIENT SOFT PERIODS 0.106
 SITE CLASSIFICATION D
 BASIC SEISMIC FORCE - RESISTING SYSTEM RIGID FRAME
 DESIGN BASE SHEAR

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 3500 psf FOR SQUARE COLUMN FOOTINGS AND 3500 psf FOR CONTINUOUS WALL FOOTINGS THAT ARE SUPPORTED OVER AGGREGATE PIERS (GEDPIERS). FOOTINGS SHALL BE PLACED ON A FIRM STRATA CAPABLE OF SAFELY SUSTAINING THESE LOADS.

FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS CONTAINED IN "REPORT OF GEOTECHNICAL SUBSURFACE INVESTIGATION" PREPARED BY CARMICHAEL ENGINEERING, INC., DATED JUNE 24, 2023.

SITE PREPARATION, INCLUDING EXCAVATION, PLACEMENT OF FILL MATERIALS AND PLACEMENT OF AGGREGATE PIERS (GEDPIERS) TO BE IN COMPLIANCE WITH RECOMMENDATIONS CONTAINED IN THIS REPORT.

FILL UNDER FOOTINGS SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.

FOOTING ELEVATIONS SHOWN ON PLAN ARE MINIMUM DEPTH.

UNUSUAL SOIL CONDITIONS MAY REQUIRE CHANGE IN FOOTING ELEVATION. CONTACT ARCHITECT AND/OR ENGINEER FOR APPROVAL TO CHANGE ELEVATION.

SLAB ON GRADE

UNLESS OTHERWISE NOTED, ALL SLABS ON GRADE SHALL BE REINFORCED WITH ONE LAYER OF #6-10/10 W.W.F. PLACED AT 1/2 SLAB THICKNESS FROM TOP.

FILL UNDER SLAB SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY (ASTM D-698). SEE SPECIFICATIONS FOR COMPACTION AND TESTING REQUIREMENTS.

CONCRETE (CAST-IN-PLACE)

MINIMUM COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE AT 28 DAYS SHALL BE:
 FOUNDATIONS 3000 psf
 SLAB ON GRADE 3000 psf
 SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 SPECIFICATIONS. WELDED STEEL WIRE FABRIC SHALL BE PLAIN STEEL WIRE CONFORMING TO ASTM A185 SPECIFICATIONS.

MINIMUM YIELD STRENGTHS (fy) SHALL BE AS FOLLOWS:
 REINFORCING BARS 60,000 psf
 BEAM STIRRUPS AND COLUMN TIES 40,000 psf
 WELDED WIRE FABRIC 65,000 psf

UNLESS OTHERWISE DETAILED, PROTECTIVE CONCRETE COVER FOR REINFORCING STEEL SHALL NOT BE LESS THAN:

- CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3 in.
- EXPOSED TO EARTH OR WEATHER
 #6 BARS AND LARGER 2 in.
 #5 BARS AND SMALLER 1 1/2 in.

LAP ALL CONTINUOUS REINFORCEMENT 24 DIAMETERS MINIMUM, UNLESS OTHERWISE NOTED. AT CORNERS AND INTERSECTIONS, PROVIDE HOOKS OR CORNER BARS.

REINFORCEMENT IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS THROUGH SPREAD FOOTINGS.

DOWEL ALL FOOTINGS, GRADE BEAMS AND WALLS, WHERE THEY ABUT, WITH SAME STEEL AS DETAILED HORIZONTAL REINFORCEMENT, 24 DIAMETERS MINIMUM LAP.

HOLLOW CONCRETE MASONRY UNITS, WHEN USED IN BEARING WALLS, SHALL CONFORM TO THE REQUIREMENTS OF ASTM 90. MORTAR SHALL BE TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 1500 psf, OR HIGHER.

SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF MASONRY CONTROL JOINTS. LOCATE CONTROL JOINTS AT EACH STEEL COLUMN, WALL INTERSECTION AND 30'-0" MAXIMUM EXCEPT WHEN SHOWN CLOSER ON ARCHITECTURAL.

HORIZONTAL JOINT REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF SINGLE AND MULTIPLE UNIT WALLS, AND SHALL BE SPACED VERTICALLY AS INDICATED ON DRAWINGS.

ALL U-BLOCK BEAMS SHALL BE REINFORCED AS INDICATED ON DRAWINGS, HOOKED AT CORNERS AND INTERSECTIONS, WHERE BOND BEAM REINFORCEMENT INTERSECTS STEEL BEAMS OR COLUMNS, REINFORCEMENT SHALL BE WELDED TO OR CONTINUOUS THROUGH BEAM OR COLUMN.

REINFORCE BUILDING CORNERS, SHOWN ON PLAN, WITH 1-#5 VERTICAL IN EACH OF THREE CONCRETE FILLED CORNER CELLS DOWELLED TO FOUNDATION AND HOOKED WITH BOND BEAM AT ROOF.

GROUT FILL VOIDS AROUND COLUMNS IN MASONRY WALLS TO PROVIDE FULL KEY TO ADJACENT MASONRY. BRACE STEEL COLUMNS IN MASONRY WALLS WITH 2-#5 X 6'-0" THRU HOLES IN COLUMNS @ 6'-0" O.C. VERTICALLY, ANCHORED IN MASONRY JOINT.

STRUCTURAL STEEL

MINIMUM MATERIAL STRENGTHS SHALL BE AS FOLLOWS:
 STRUCTURAL STEEL 50 ksi yield point (ASTM A992)
 PIPE 35 ksi yield point (ASTM A53 GRADE B)
 HOLLOW TUBULAR SECTIONS (MSK) 40 ksi yield point (ASTM A500 GRADE B)
 COLD FORMED STUDS, GIRTS, PURLINS 33 ksi yield point
 ANCHOR RODS ASTM F1554-GRADE 36
 BOLTED STRUCTURAL JOINTS A-325X
 WELD ELECTRODES E70XX

PRECAST AND PRESTRESSED CONCRETE

ALL PRECAST AND PRESTRESSED CONCRETE ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS NOTED ABOVE, DEAD LOADS AND CONCENTRATED LOADS.

VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT AND/OR ENGINEER OF ANY REQUIRED MODIFICATIONS.

SUBMIT DESIGN DRAWINGS BEARING THE ENGINEER'S REGISTRATION SEAL OF THE DESIGN ENGINEER.

PREFABRICATED METAL BUILDINGS (CONTRACTOR'S OPTION)

ALL PREFABRICATED METAL BUILDING ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH APPLICABLE CODES AND SPECIFICATIONS TO SUPPORT ALL LIVE LOADS NOTED ABOVE, DEAD LOADS AND CONCENTRATED LOADS. REQUIRED LATERAL BRACING (TEMPORARY AND PERMANENT) SHALL BE DESIGNED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER.

VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY ARCHITECT AND/OR ENGINEER OF ANY REQUIRED MODIFICATIONS.

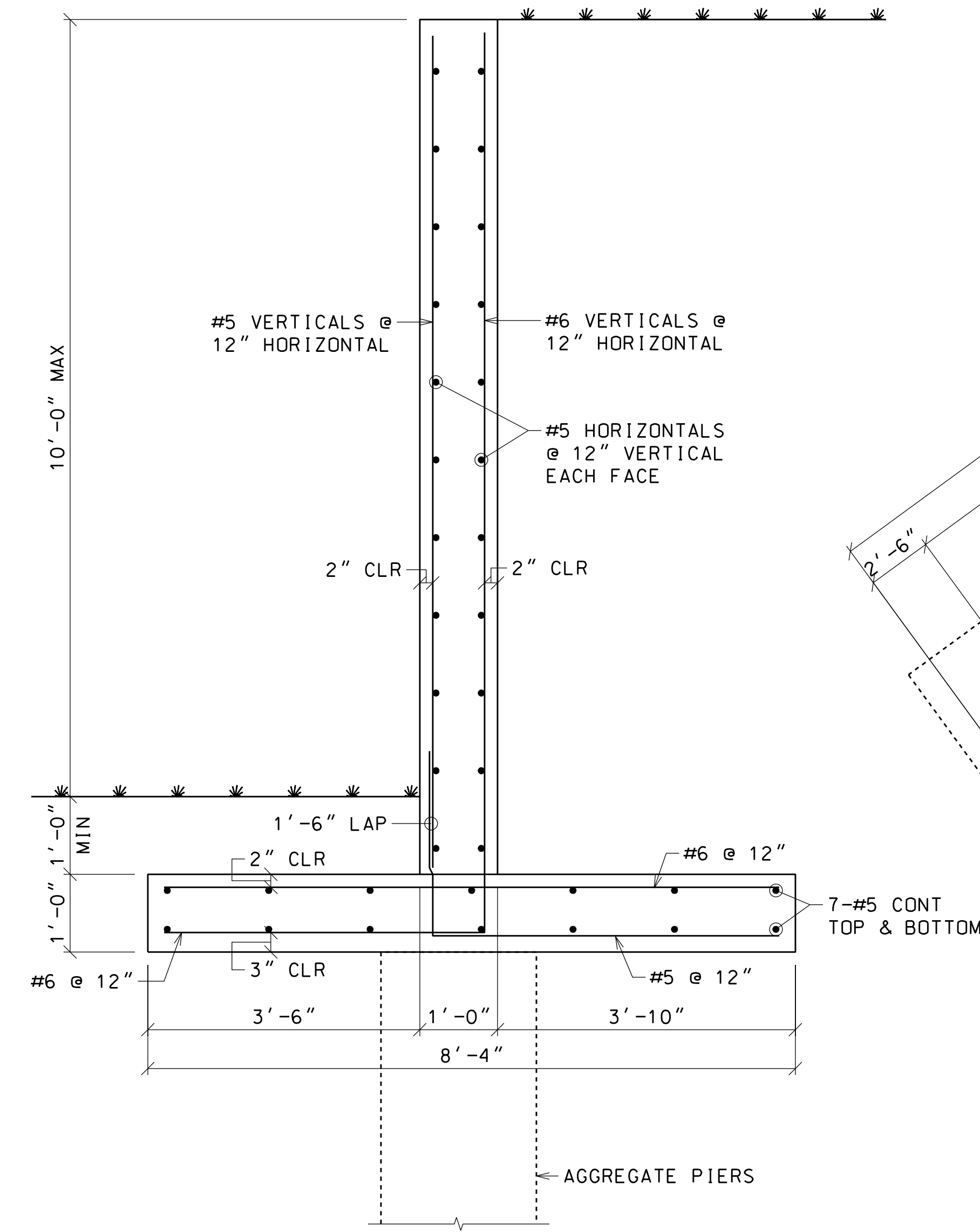
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SHOP DRAWINGS

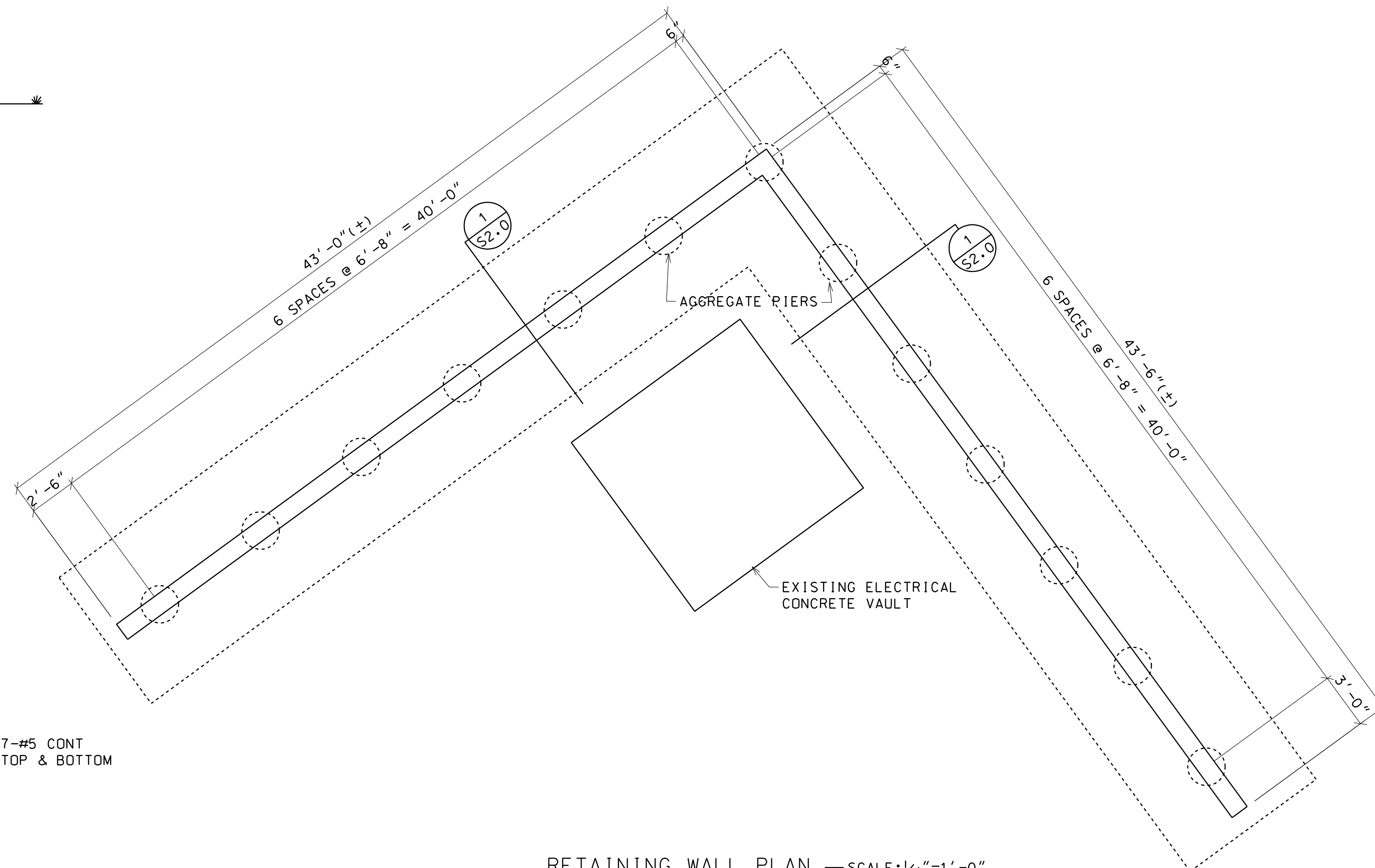
SUBMIT FOR REVIEW TO THE ARCHITECT AND/OR ENGINEER, IN ACCORDANCE WITH THE SPECIFICATIONS, AS FOLLOWS:

- PLACING PLANS AND DETAILS OF CONCRETE REINFORCEMENT, IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (ACI 318).
- LAYOUT AND DETAILS OF ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL.
- LAYOUT AND DETAILS OF ALL PRECAST AND PRESTRESSED CONCRETE ELEMENTS.

SUBMITTAL SHALL BEAR THE APPROVAL STAMP OF THE CONTRACTOR, VERIFYING THAT THE DIMENSIONS AND DETAILS COMPLY WITH THE CONTRACT DRAWINGS.



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



RETAINING WALL PLAN - SCALE: 1/4" = 1'-0"

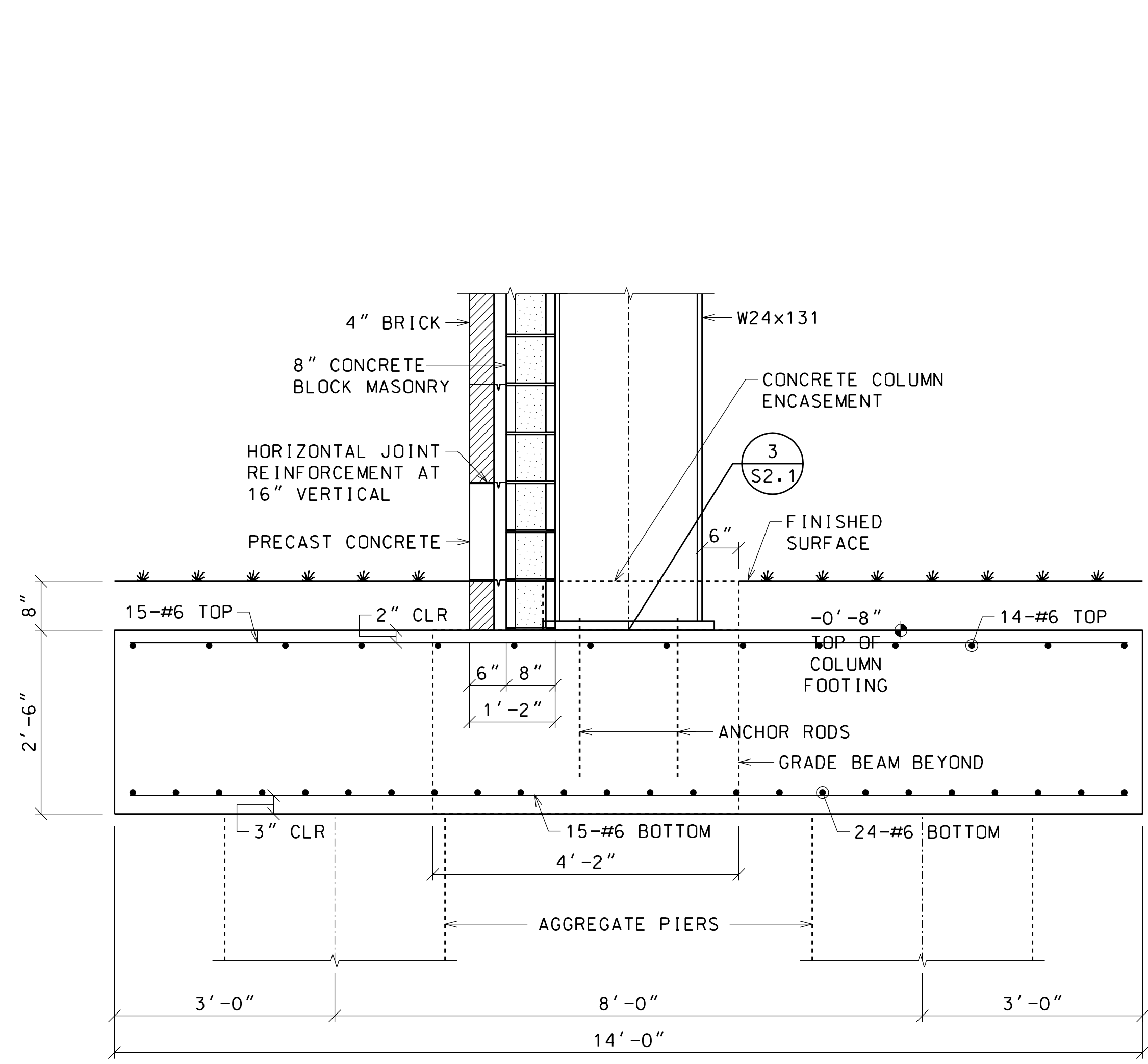


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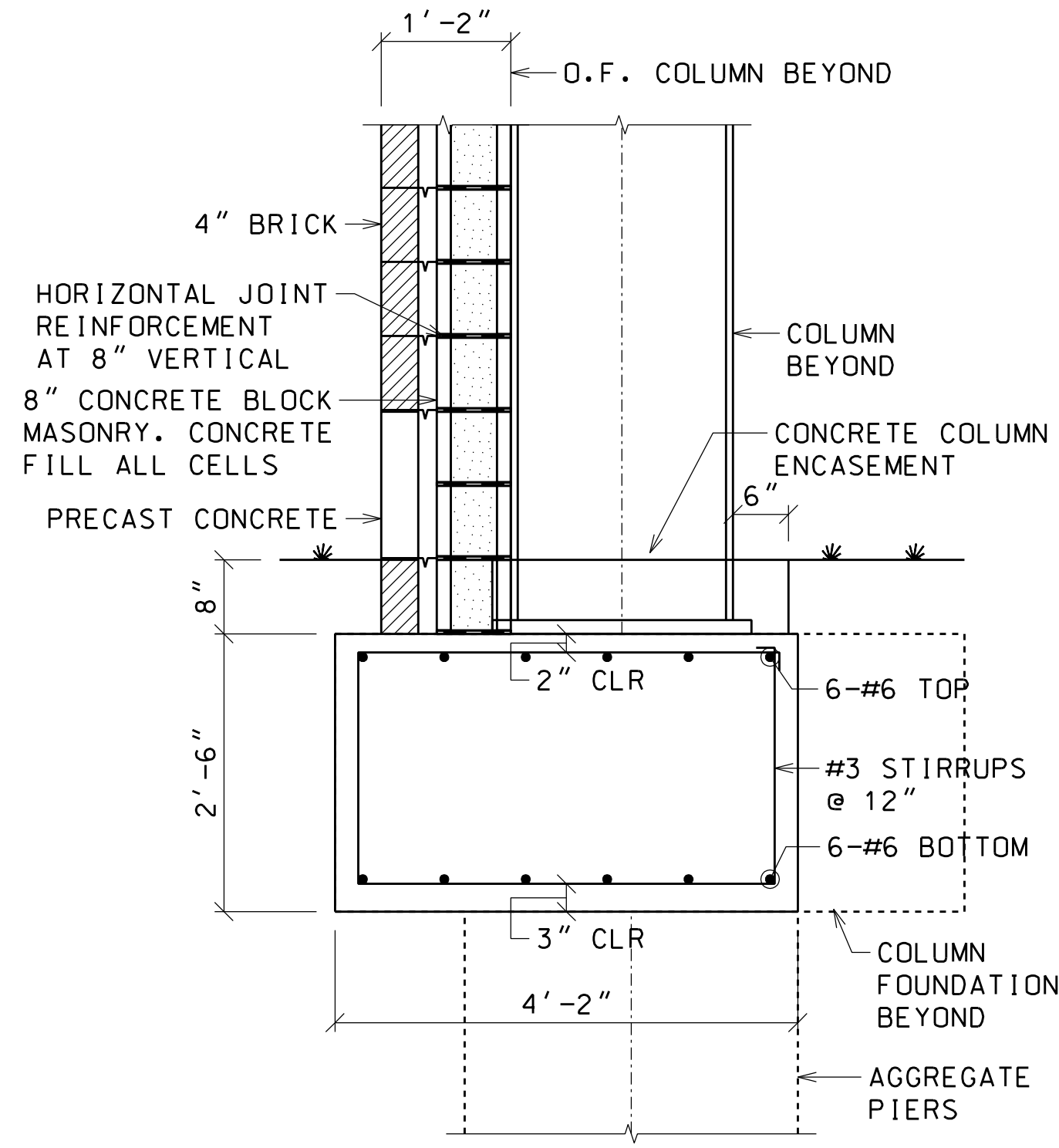
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 JOB NO. : 22-359
 DRAWN BY : RLD
 DATE : 10.16.24
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
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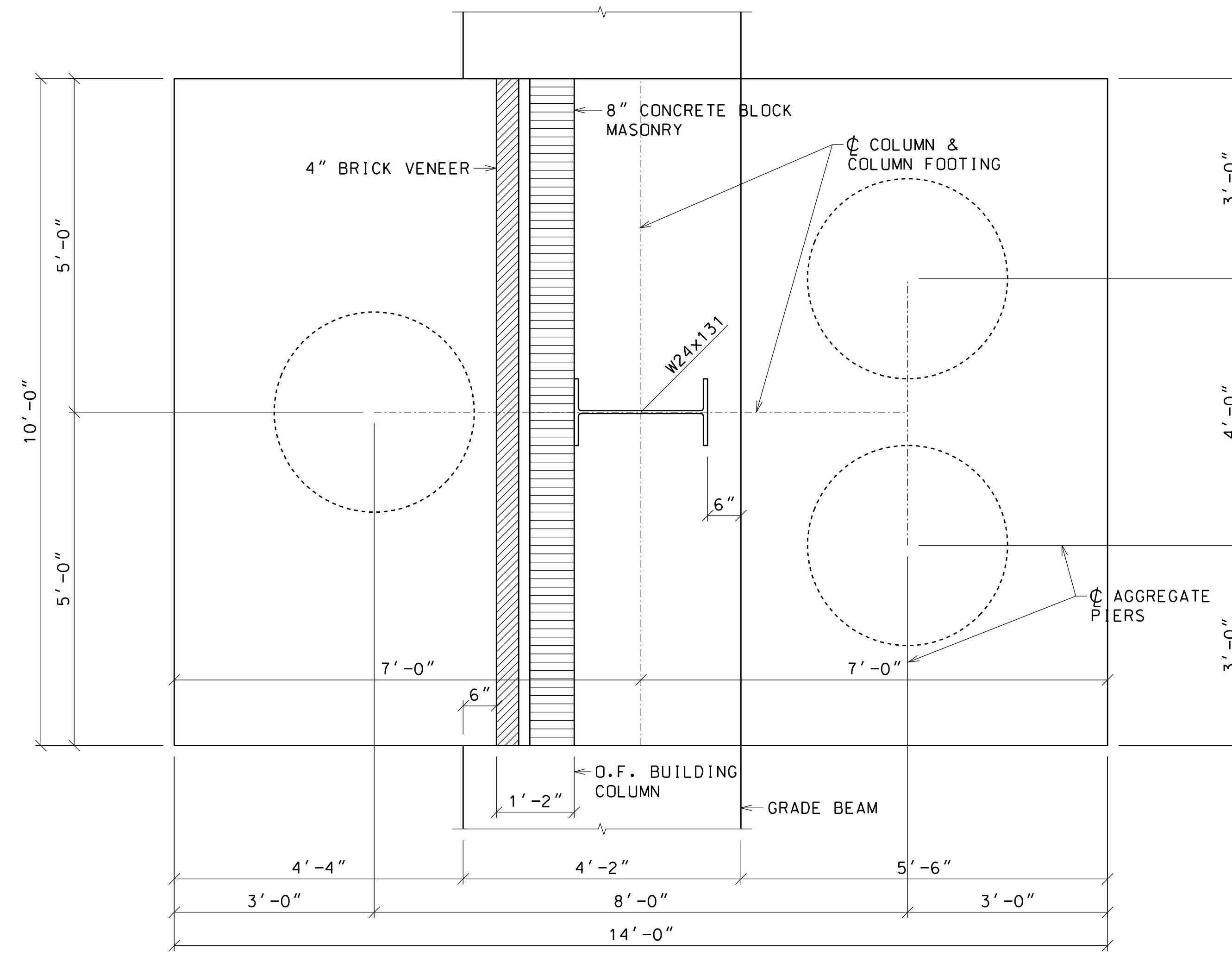
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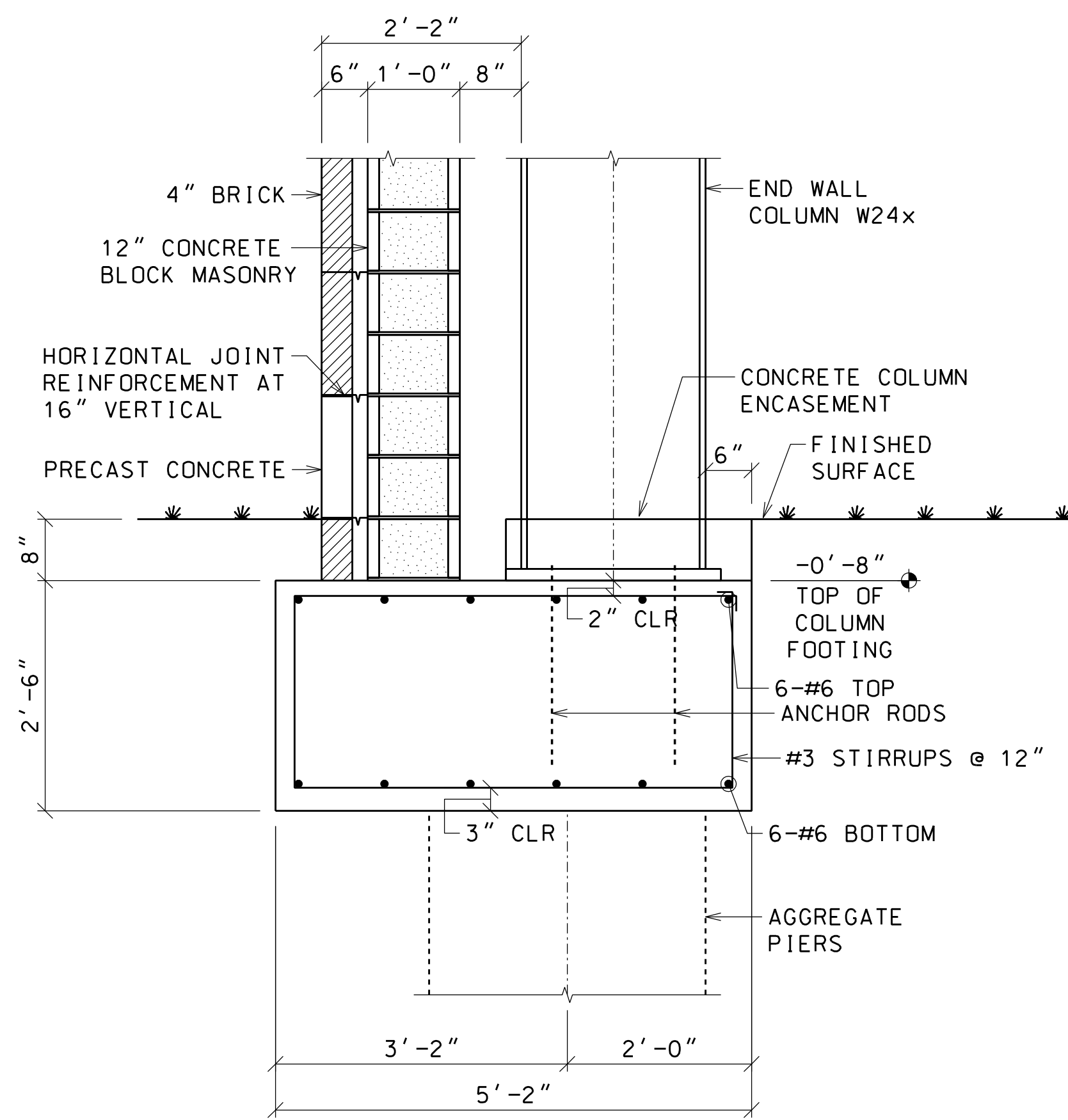
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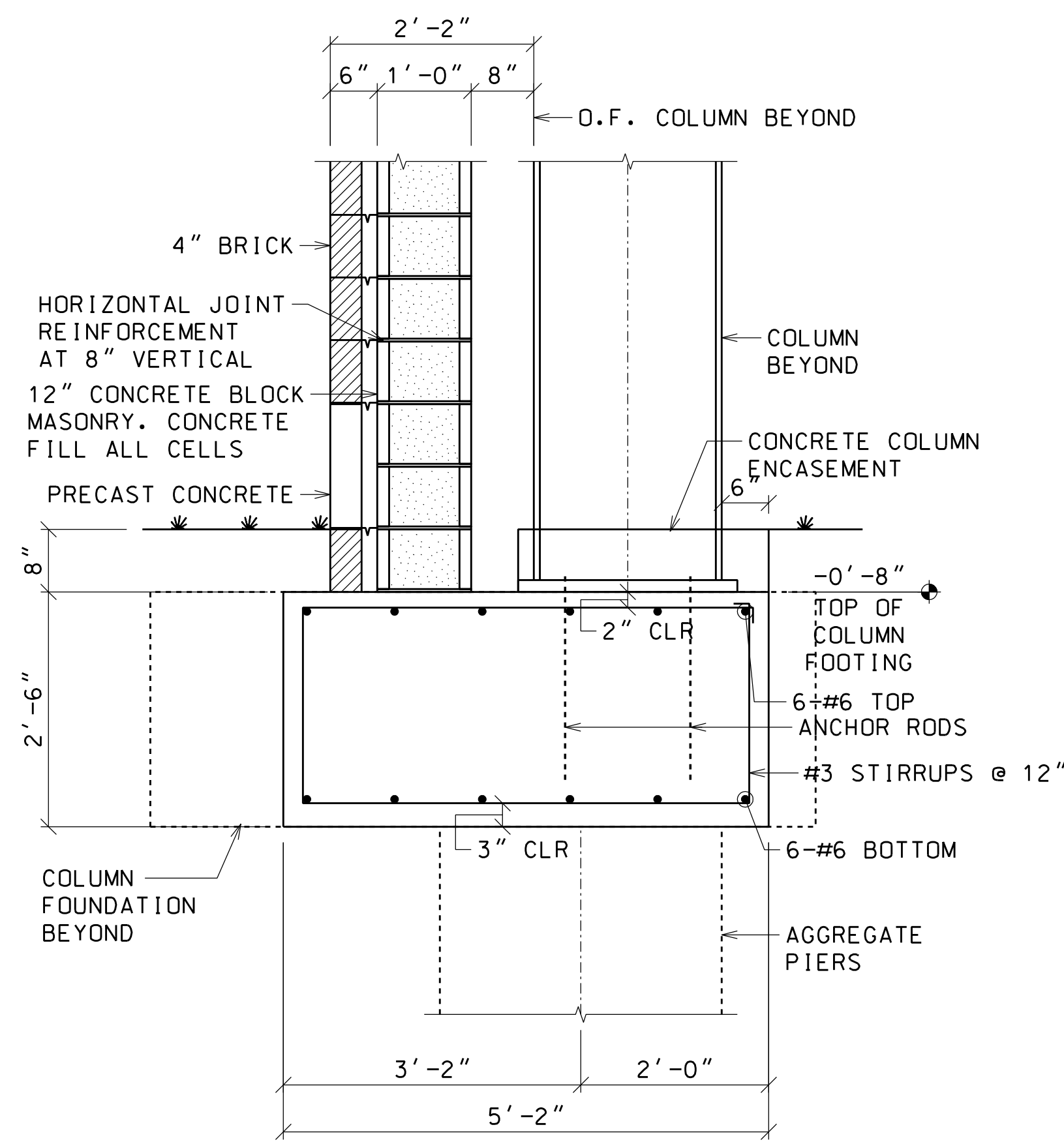
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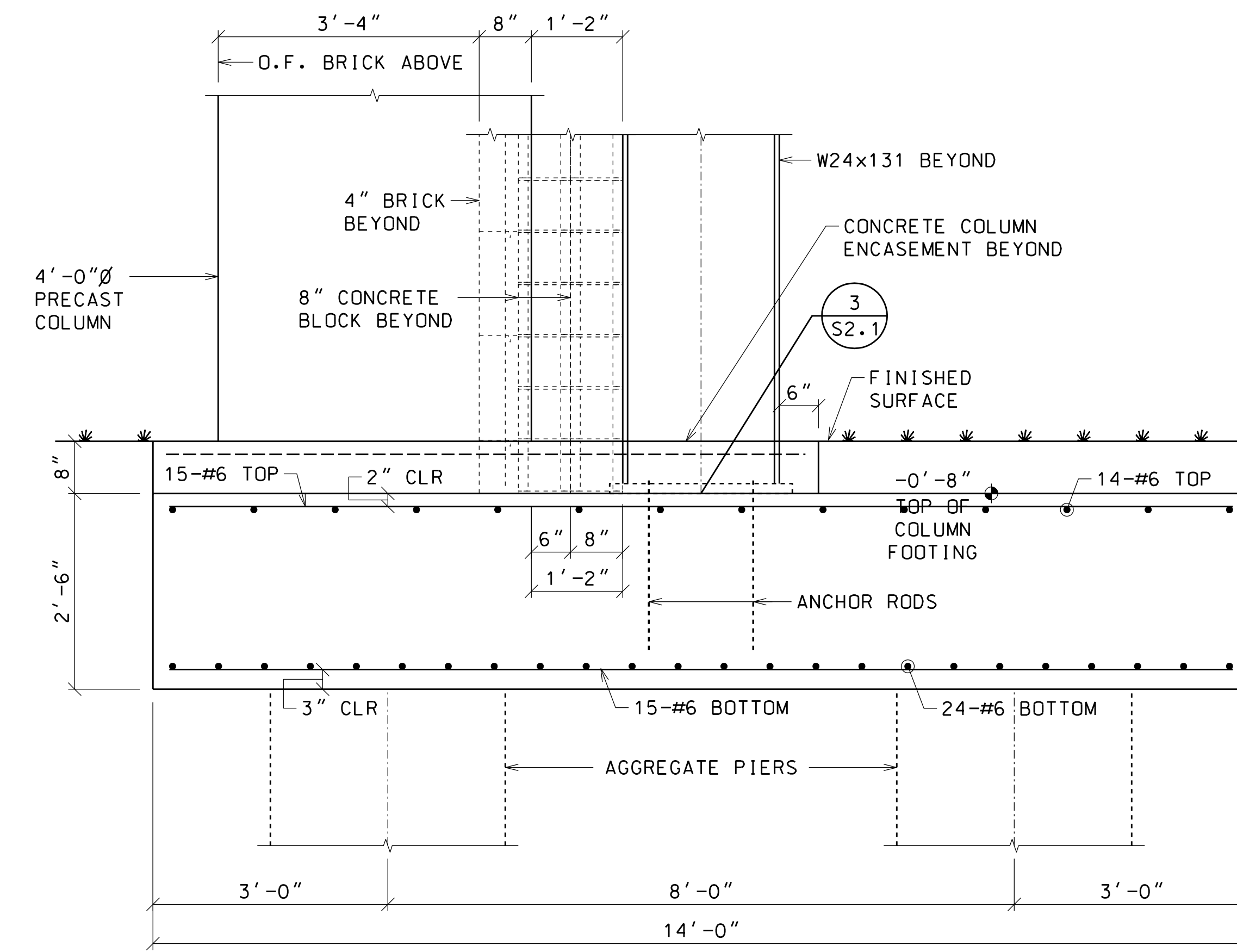
SECTION 3 $\frac{3}{4}$ "=1'-0"



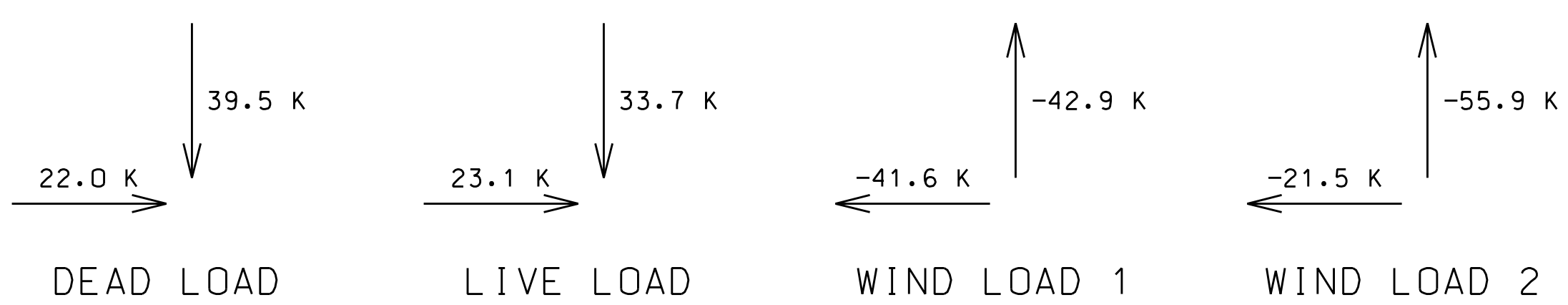
SECTION 4 $\frac{3}{4}$ "=1'-0"



SECTION 5 $\frac{3}{4}$ "=1'-0"



SECTION 6 $\frac{3}{4}$ "=1'-0"

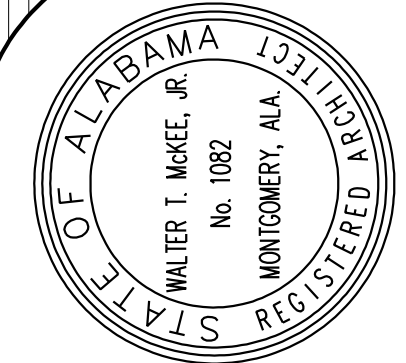


RIGID FRAME COLUMN REACTIONS

NOTE: ALL LOADS ARE ASD UNFACTORED. NO FOUNDATION OR WALL LOADS ARE INCLUDED

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SHEET TITLE : FOUNDATION DETAILS

JOB NO. : 22.359

DRAWN BY : RLD

DATE : 10.16.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

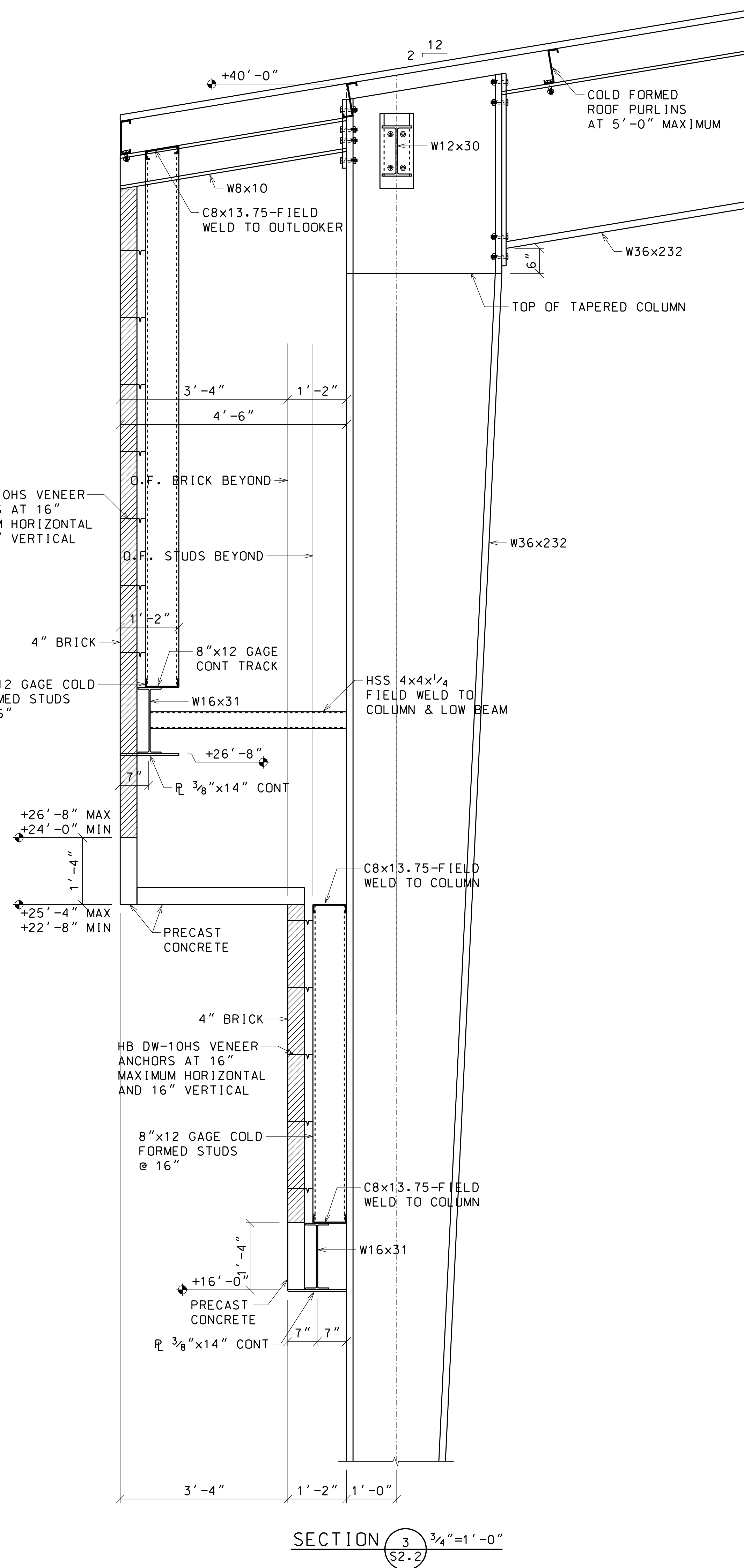
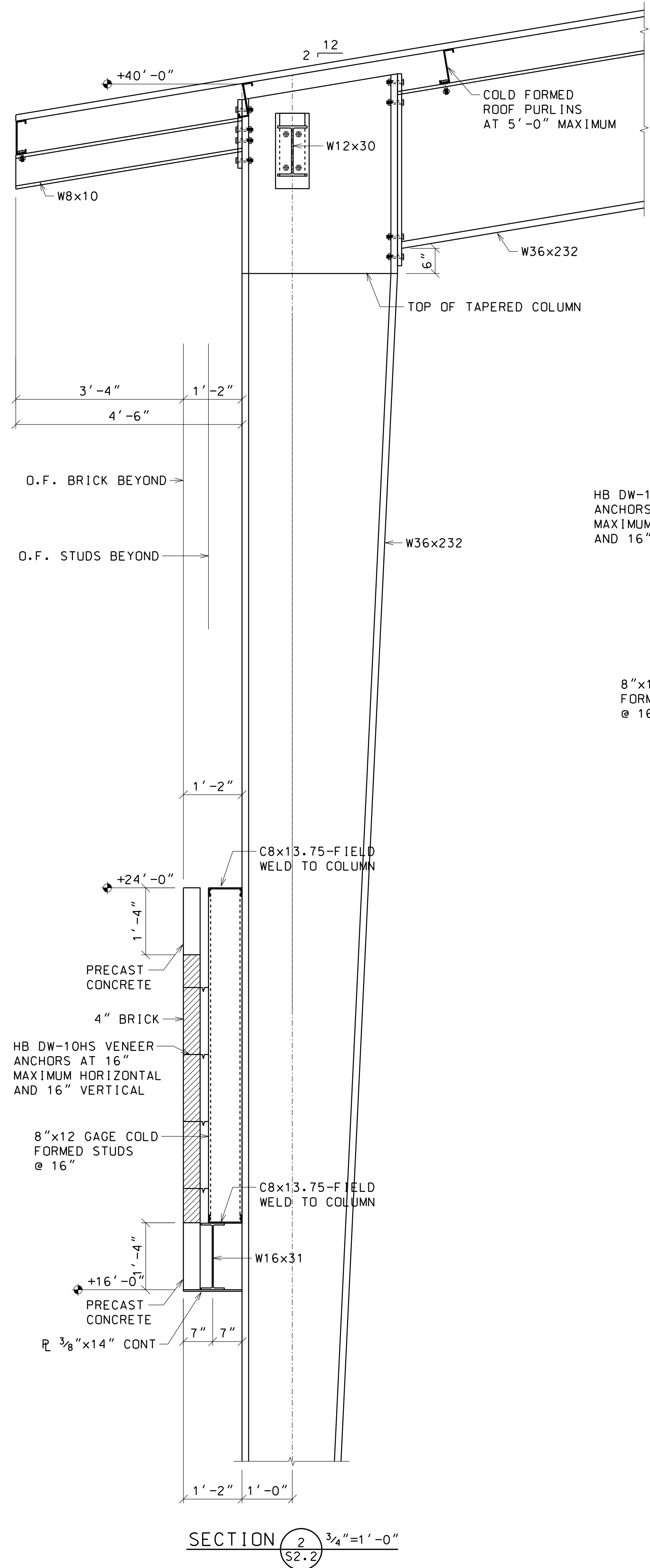
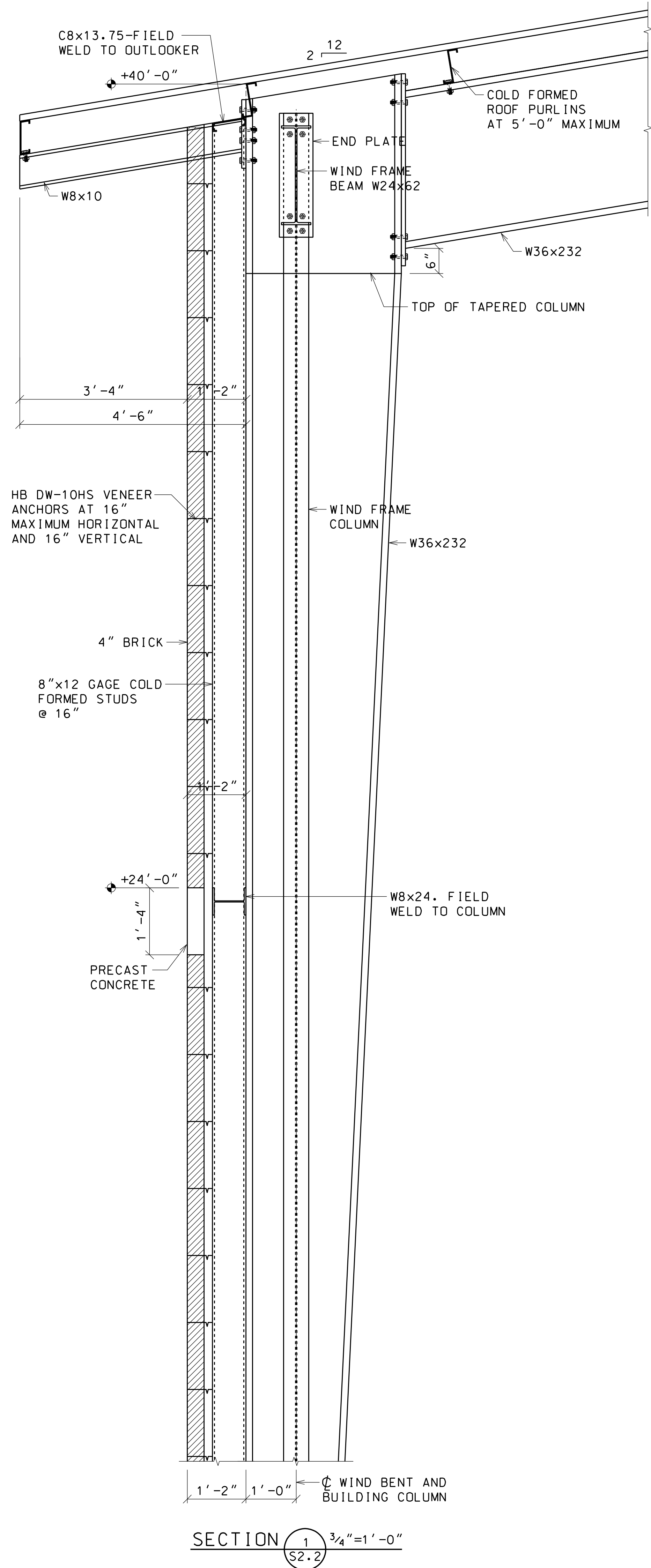
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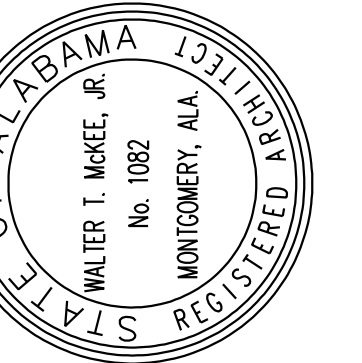


COLD FORMED METAL STUD PROPERTIES

STUD	DESIGNATION	I _x	S _x	MOMENT ALLOWABLE
8"x12 GA	800S250-97	12.8 IN ⁴	3.2 IN ³	102.7 IN-K

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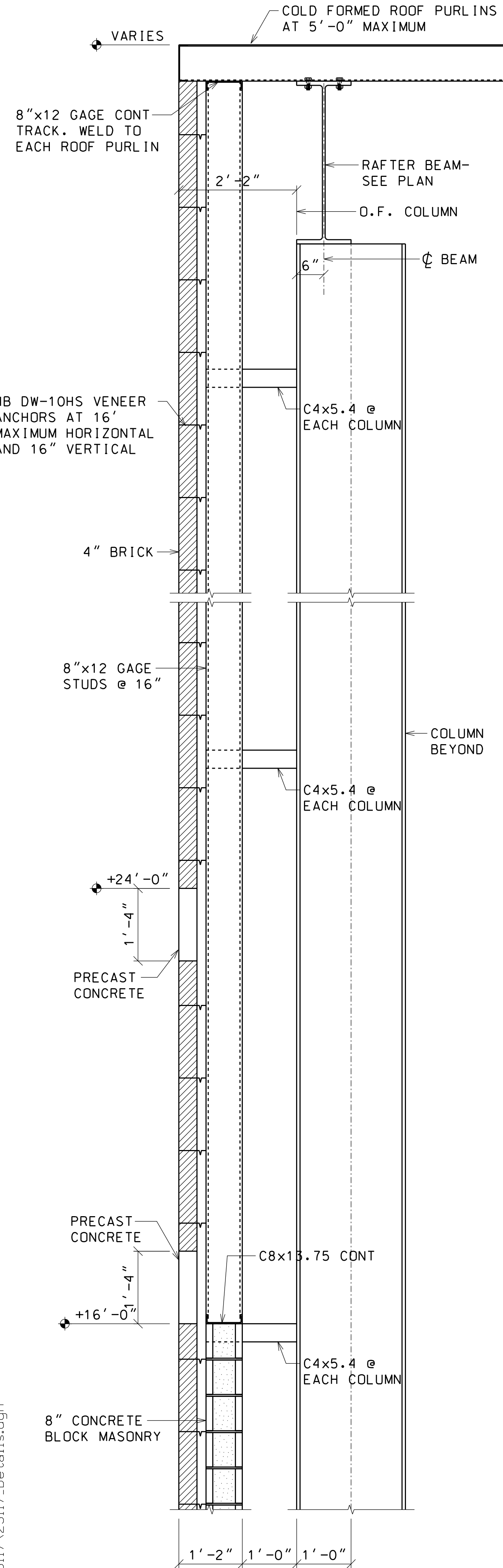


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 JOB NO. : **22.359**
 DRAWN BY : **RLD**
 DATE : **10.16.24**
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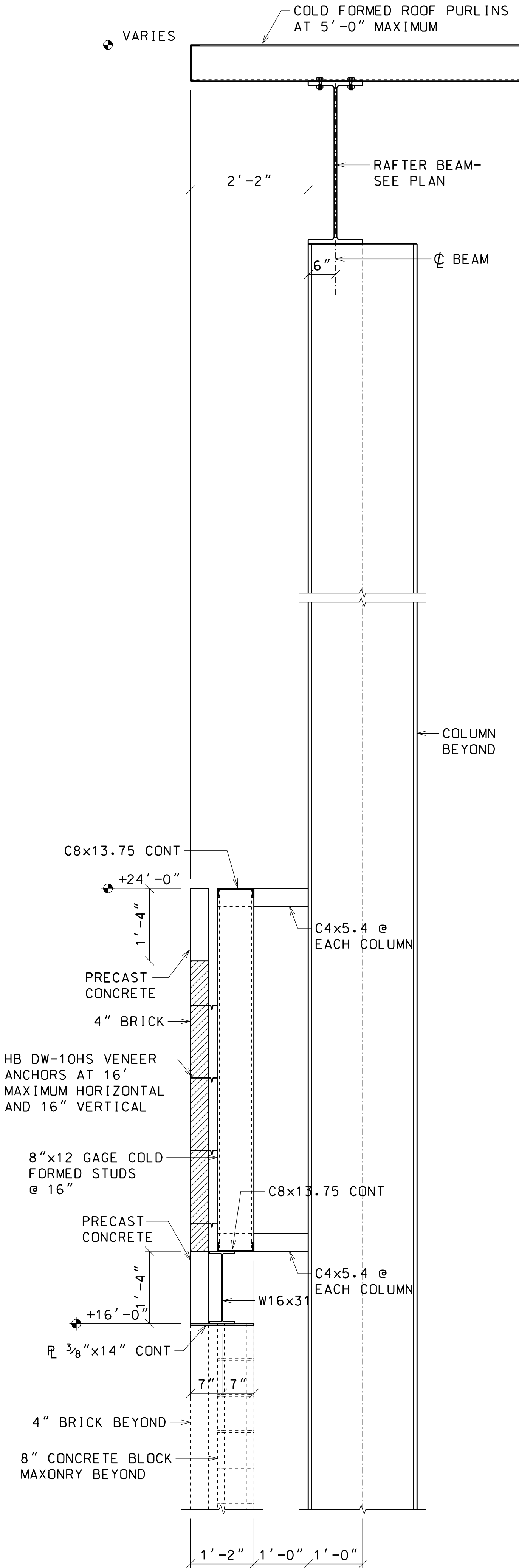


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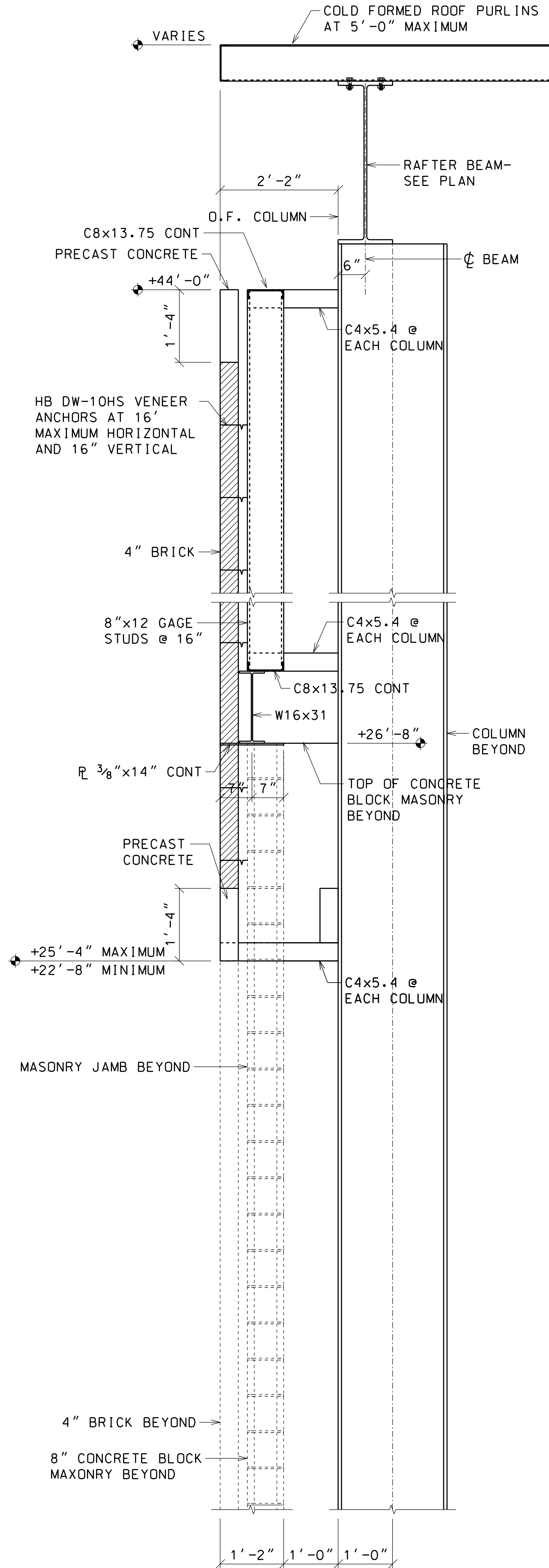
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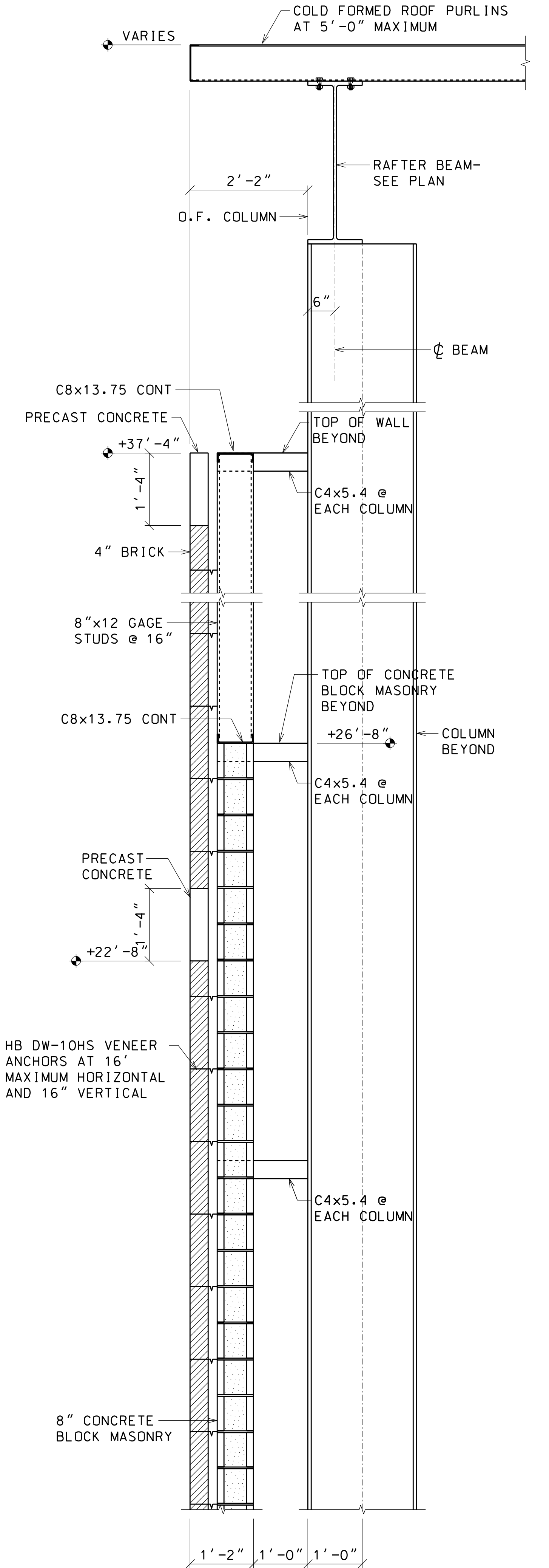
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SECTION 2 $\frac{3}{4}''=1'-0''$



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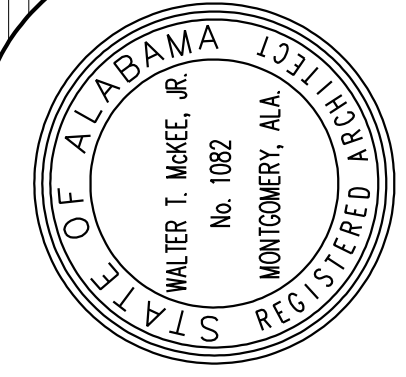


SECTION 4 $\frac{3}{4}''=1'-0''$

COLD FORMED METAL STUD PROPERTIES				
STUD	DESIGNATION	I _x	S _x	MOMENT ALLOWABLE
8"x12 GA	800S250-97	12.8 IN ⁴	3.2 IN ³	102.7 IN-K

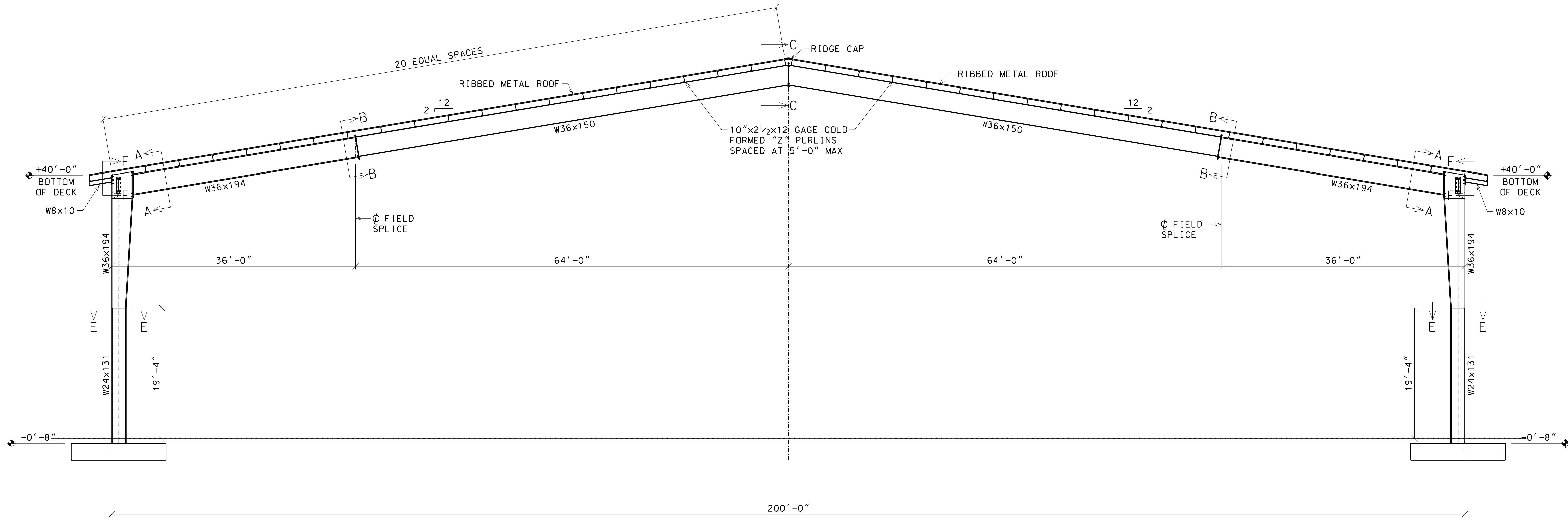
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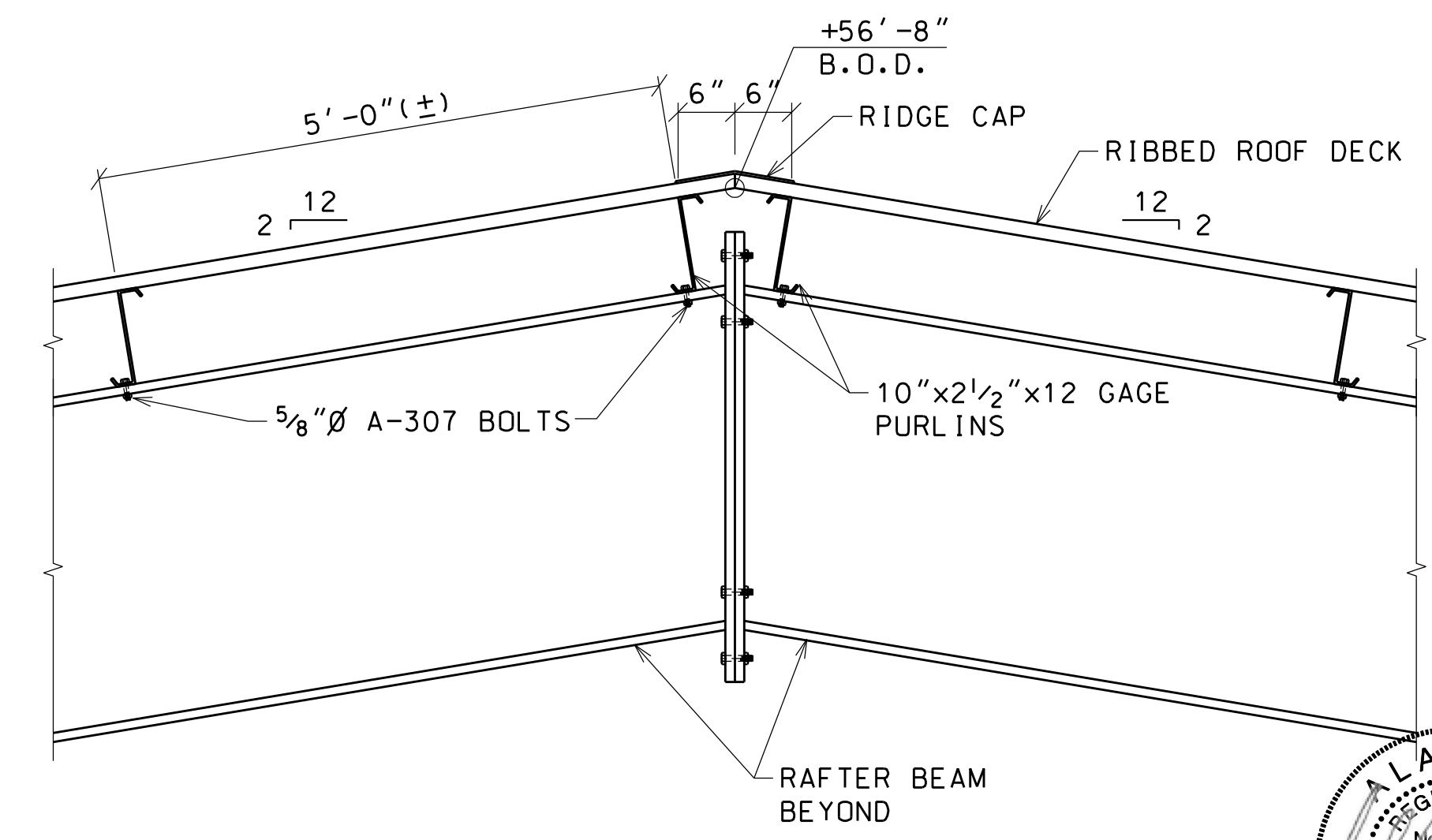
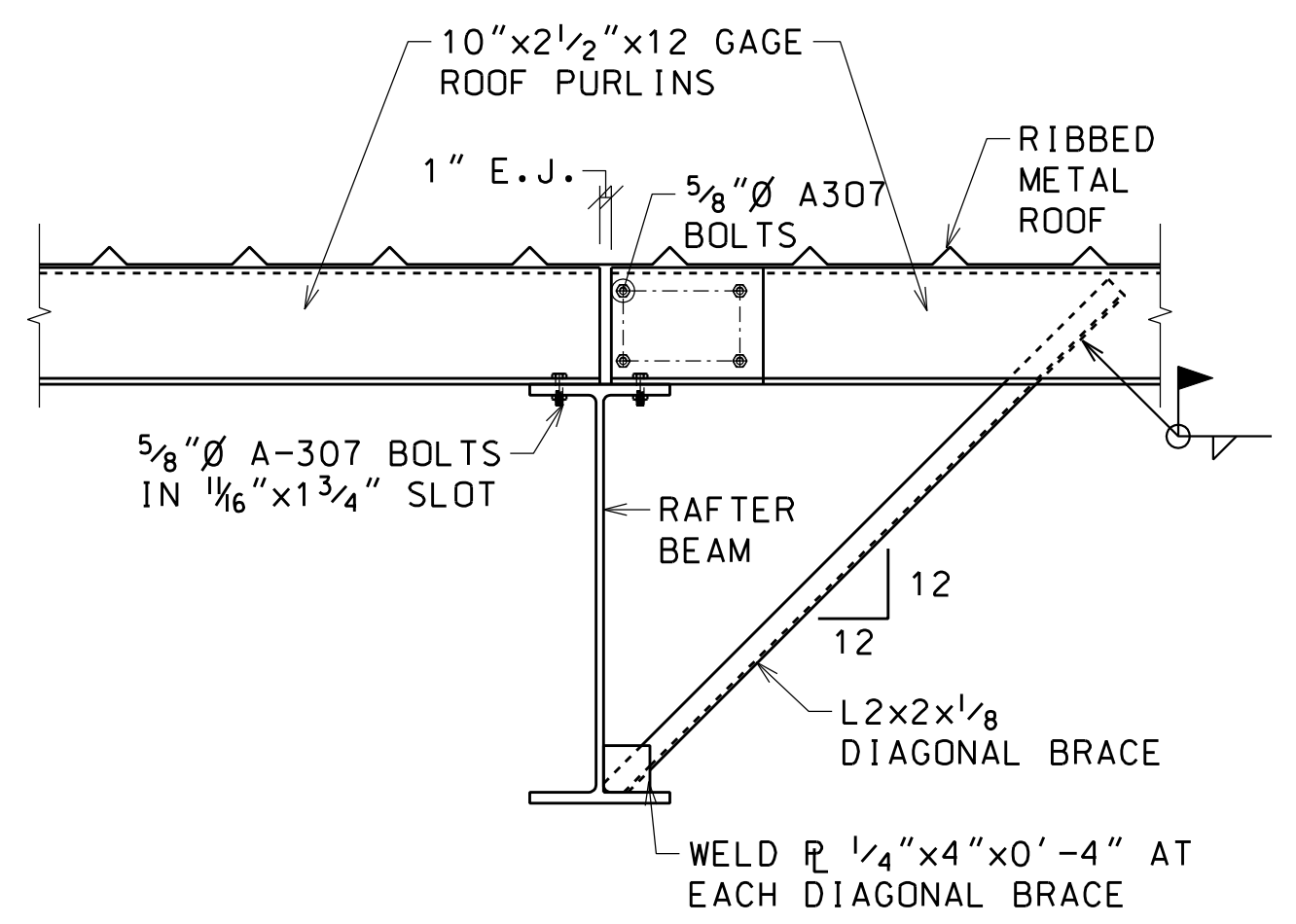
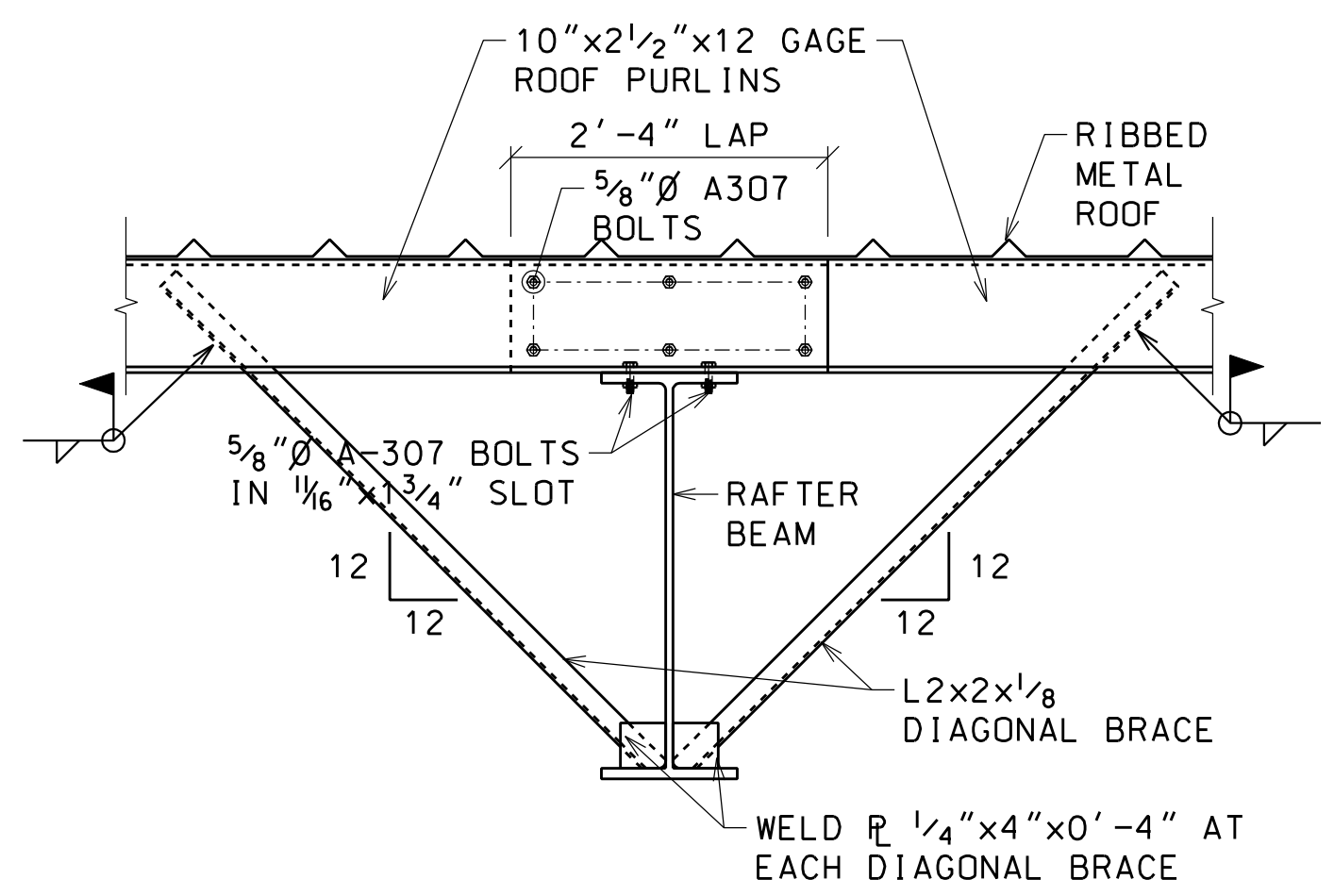
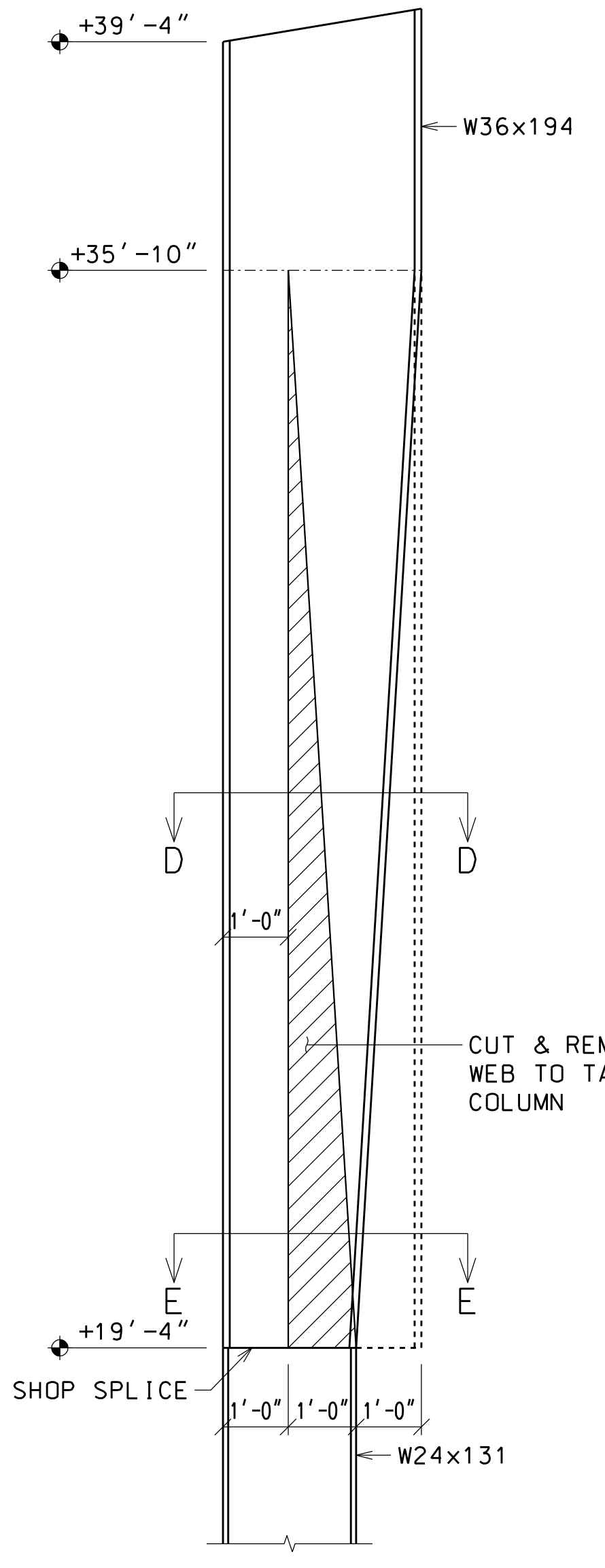
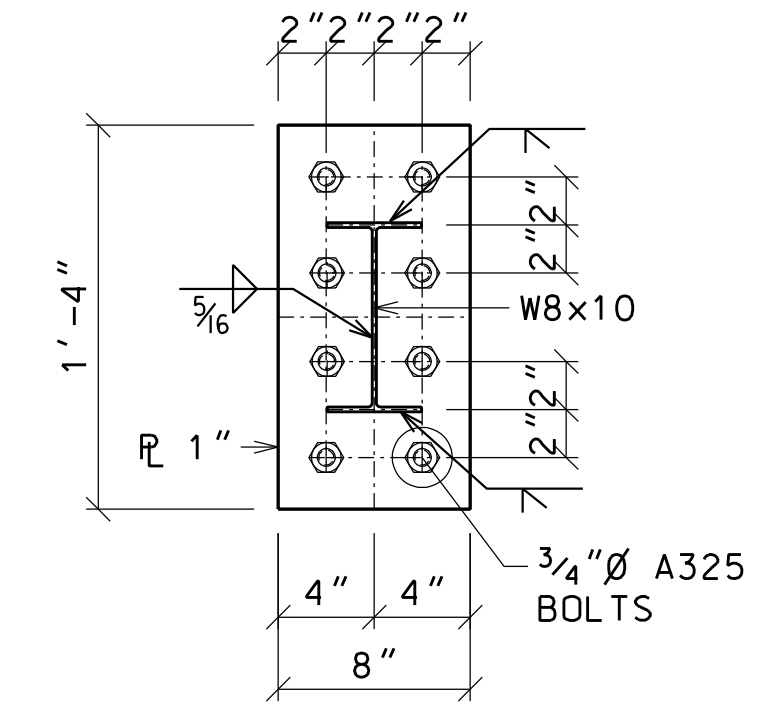
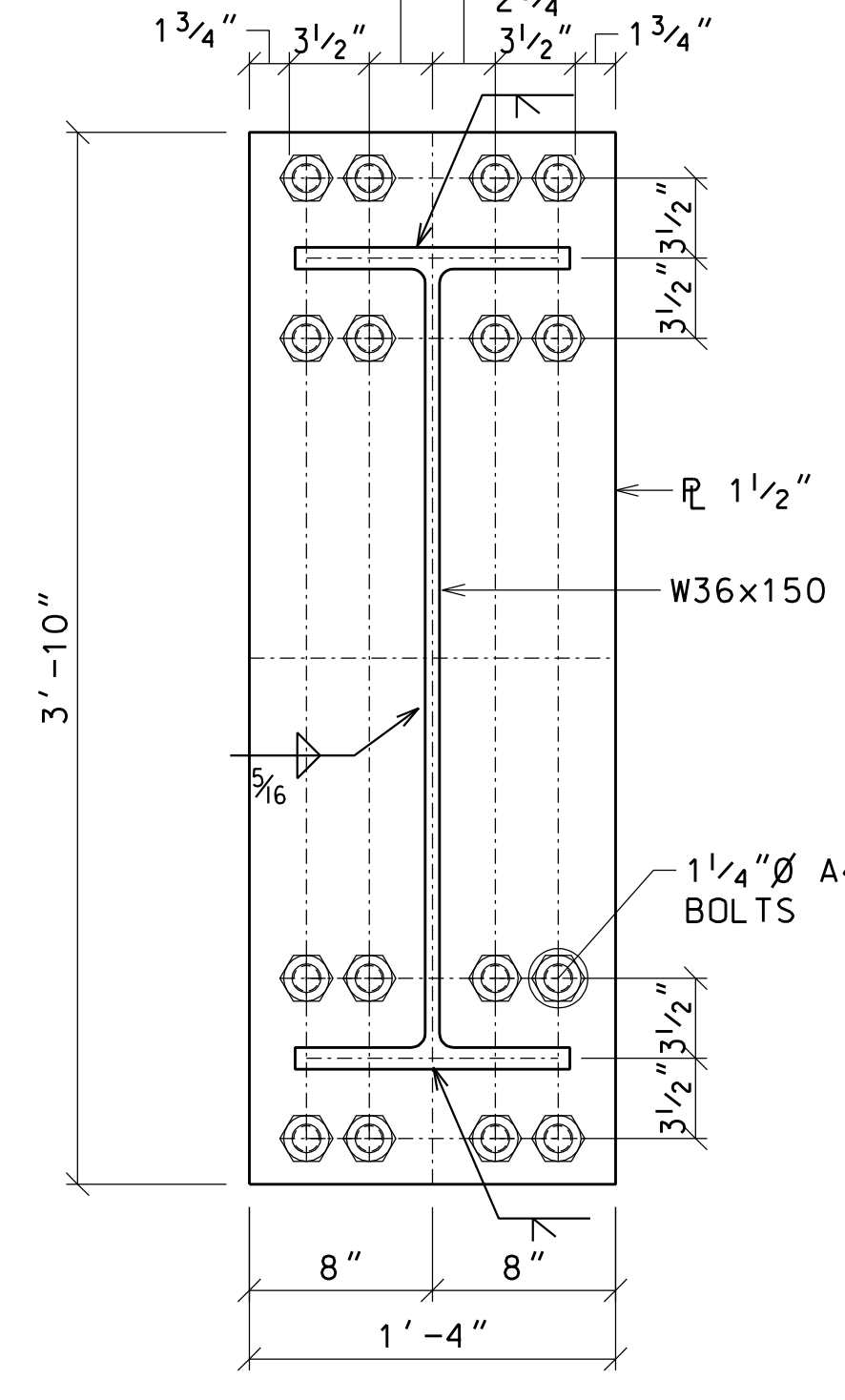
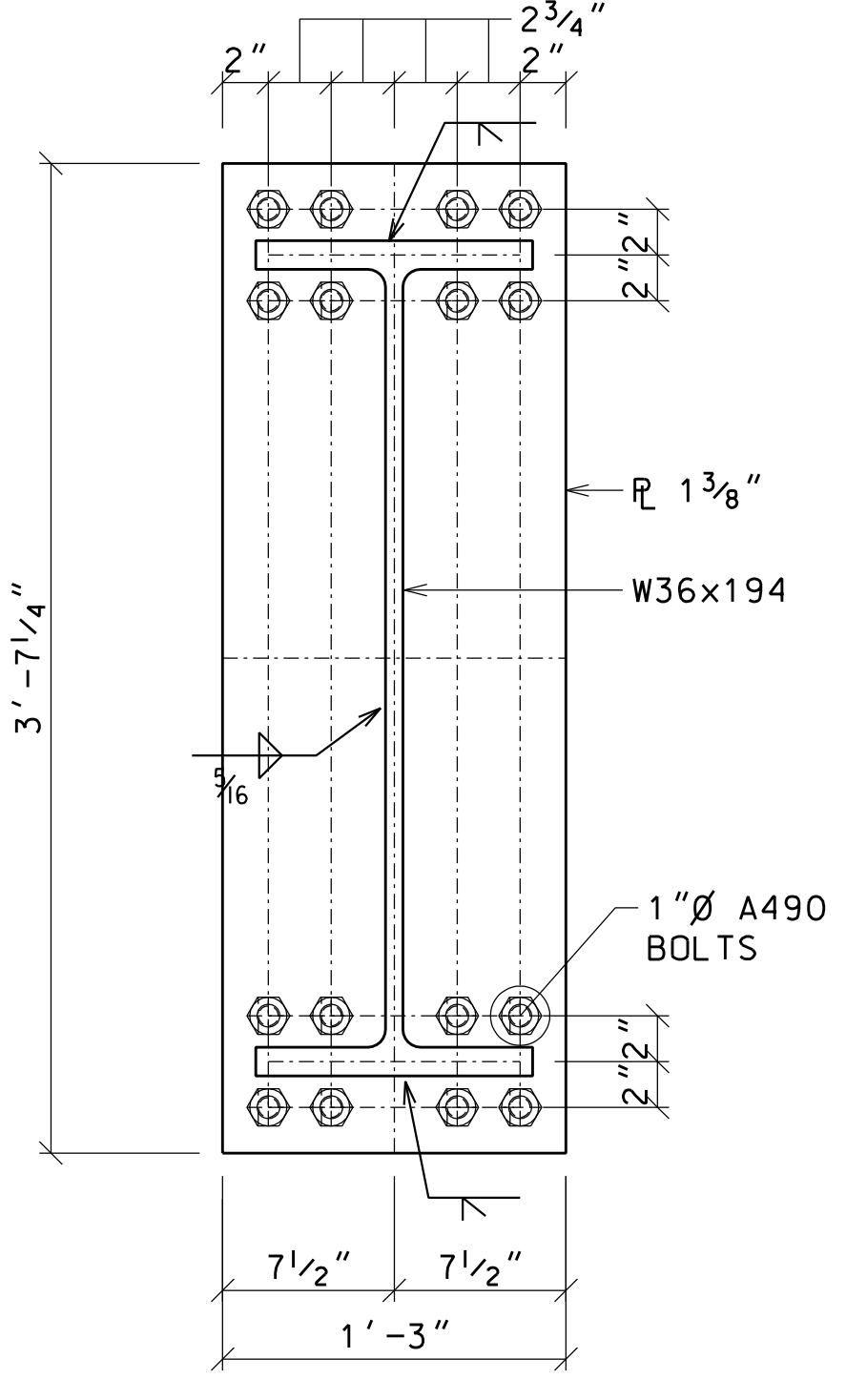
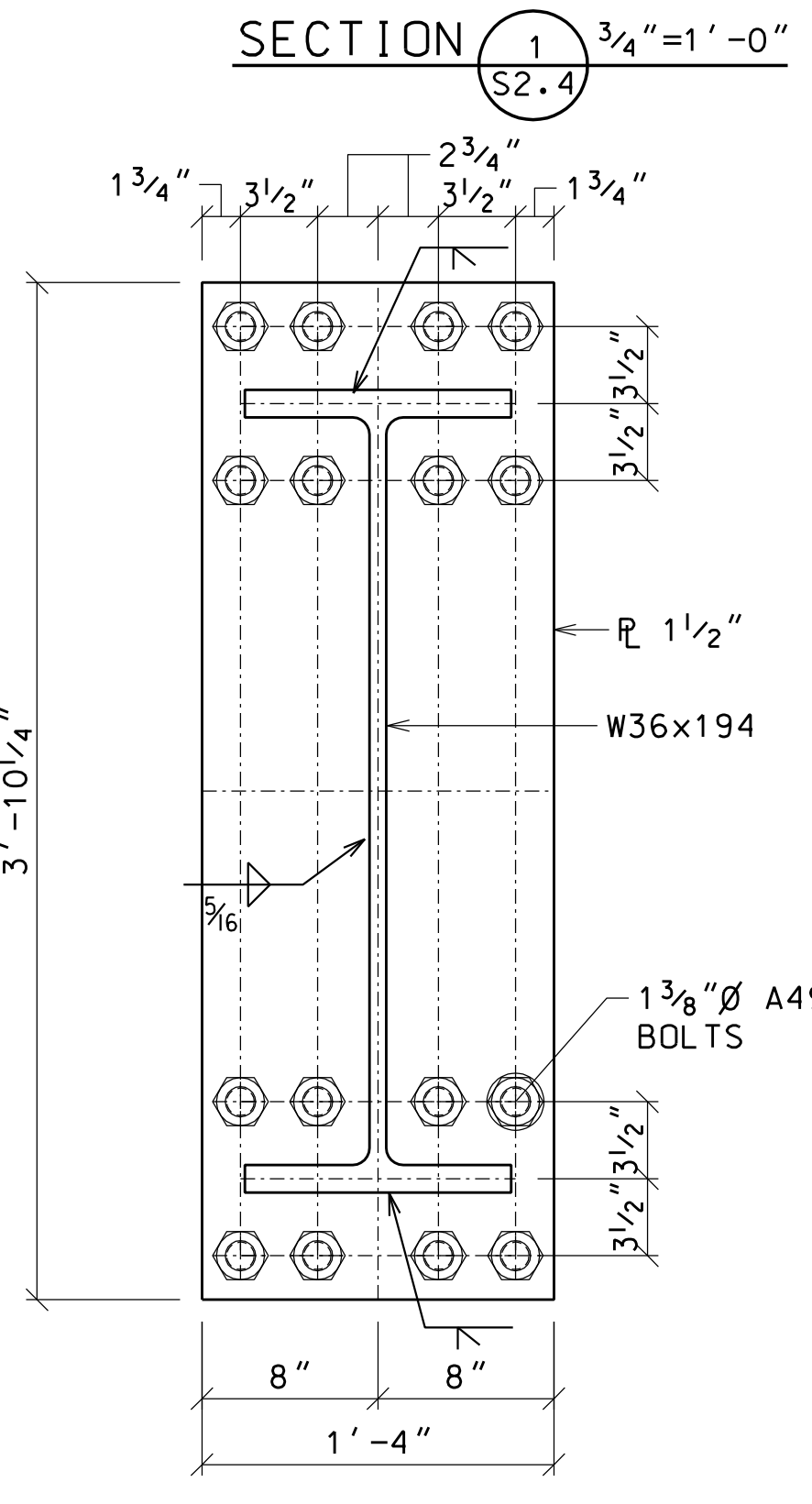
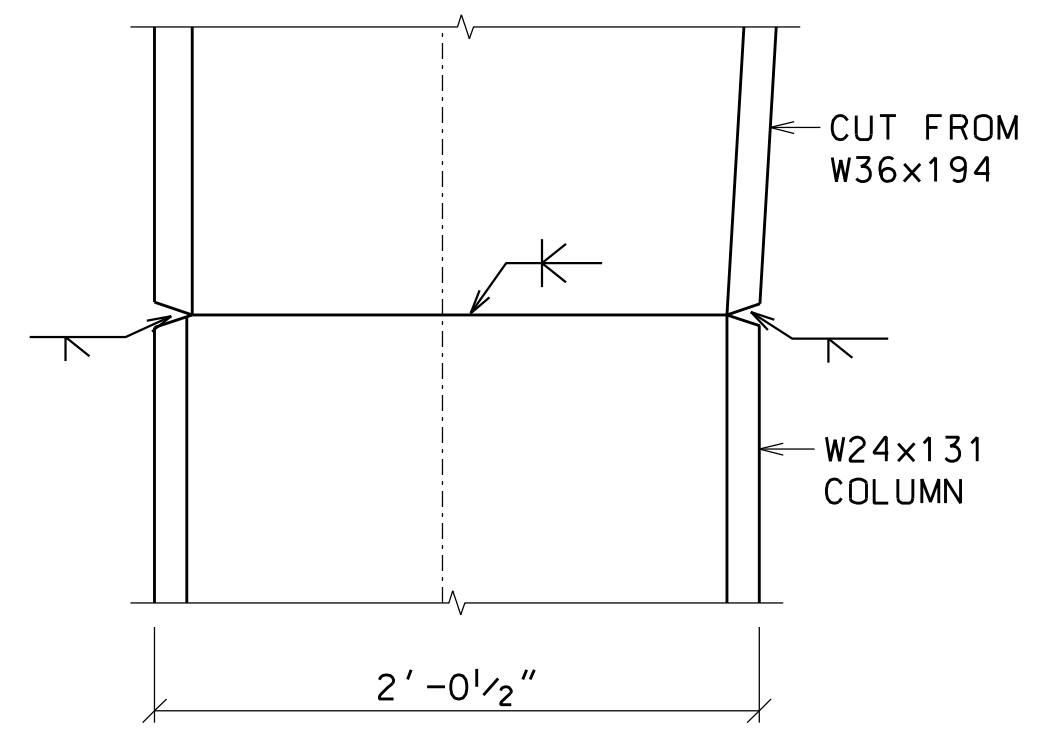
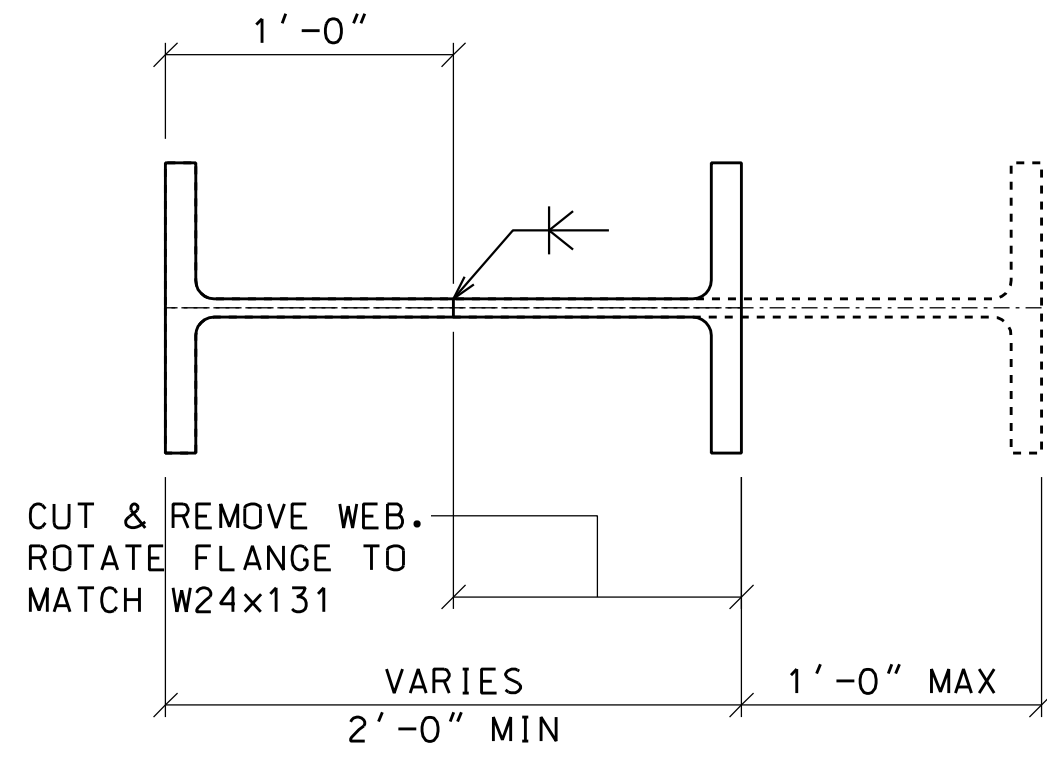


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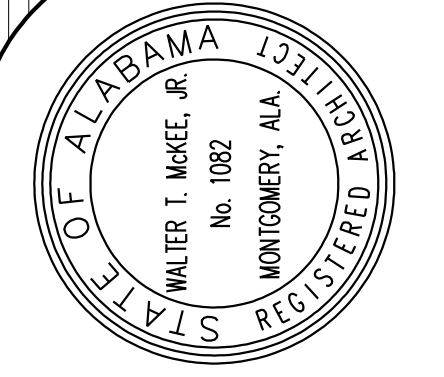


RIGID FRAME ELEVATION



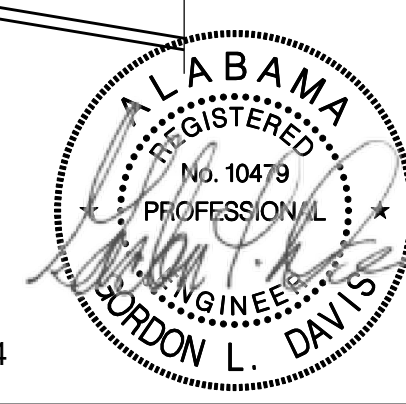
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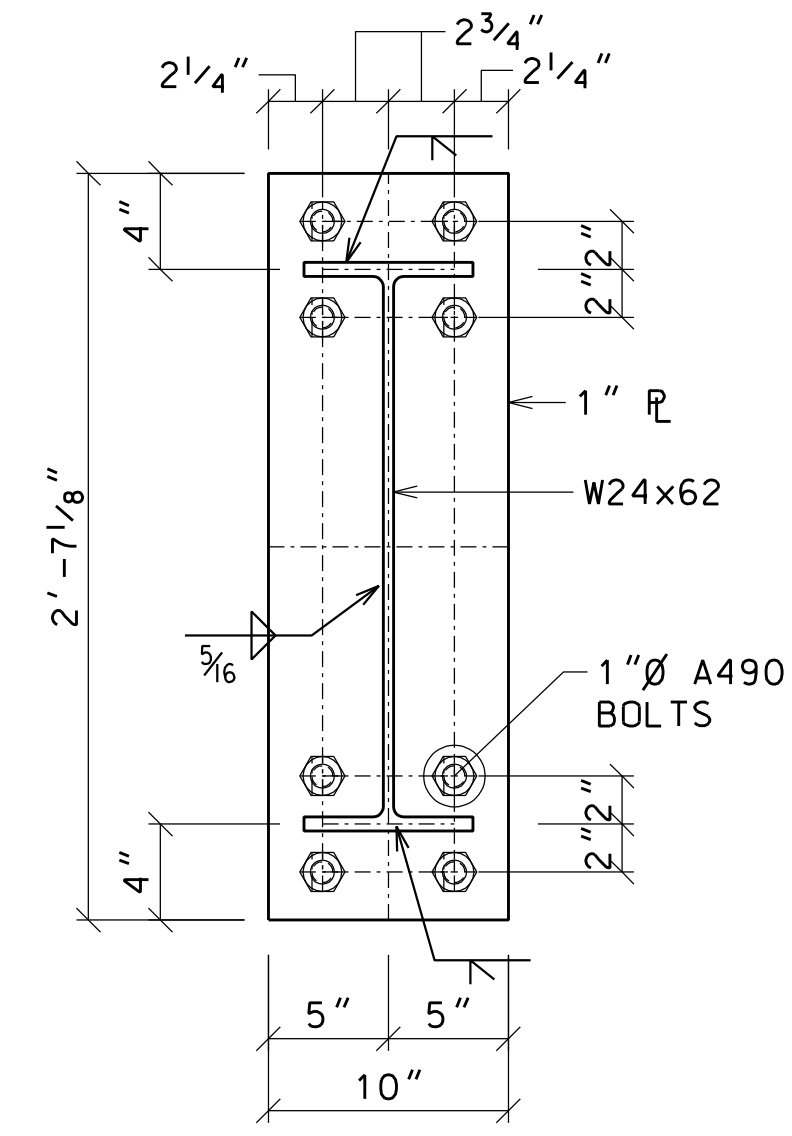
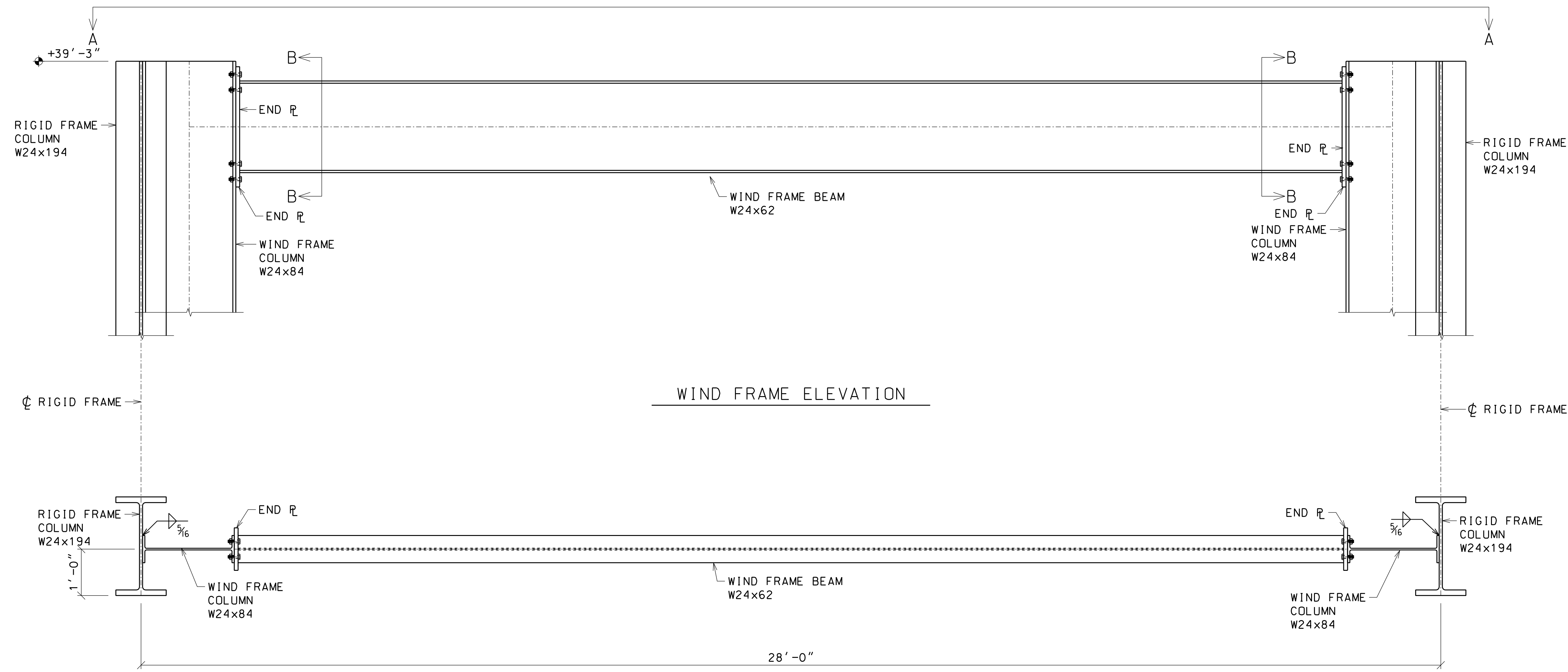
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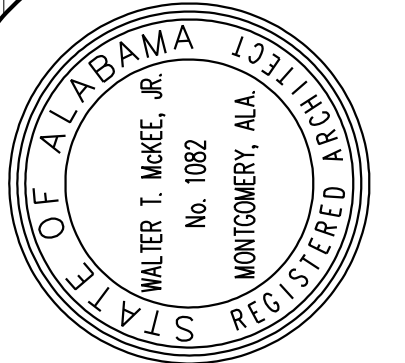
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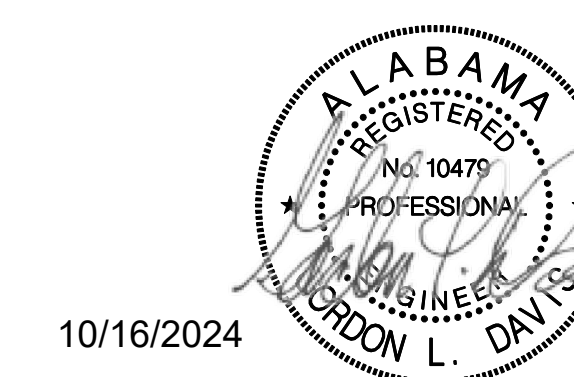
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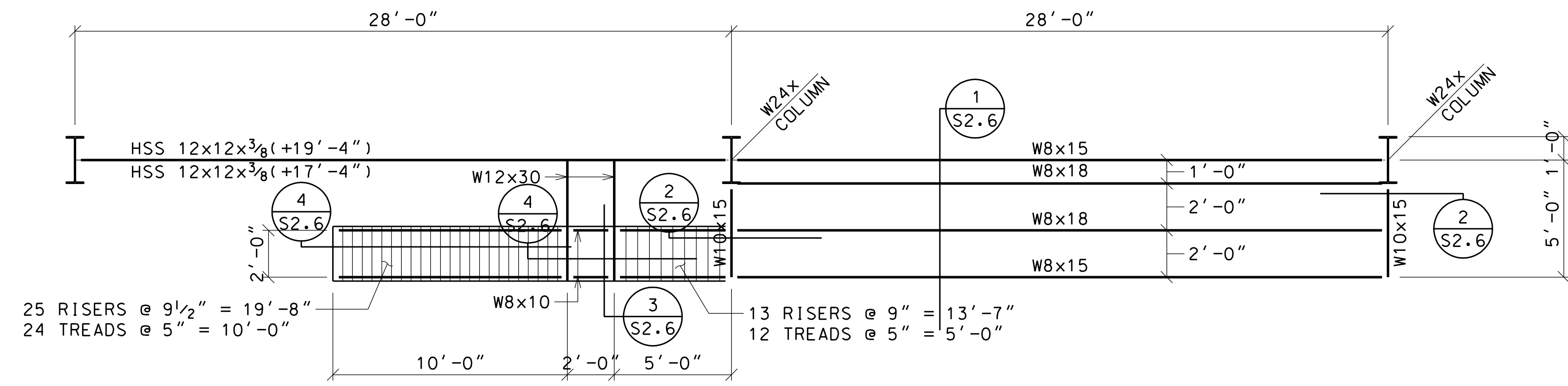
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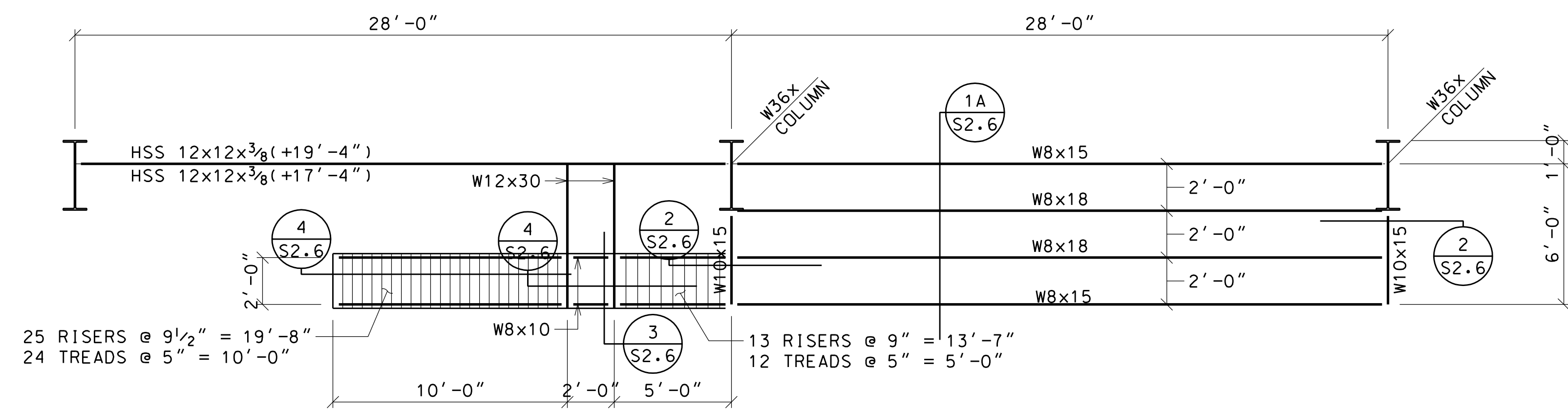
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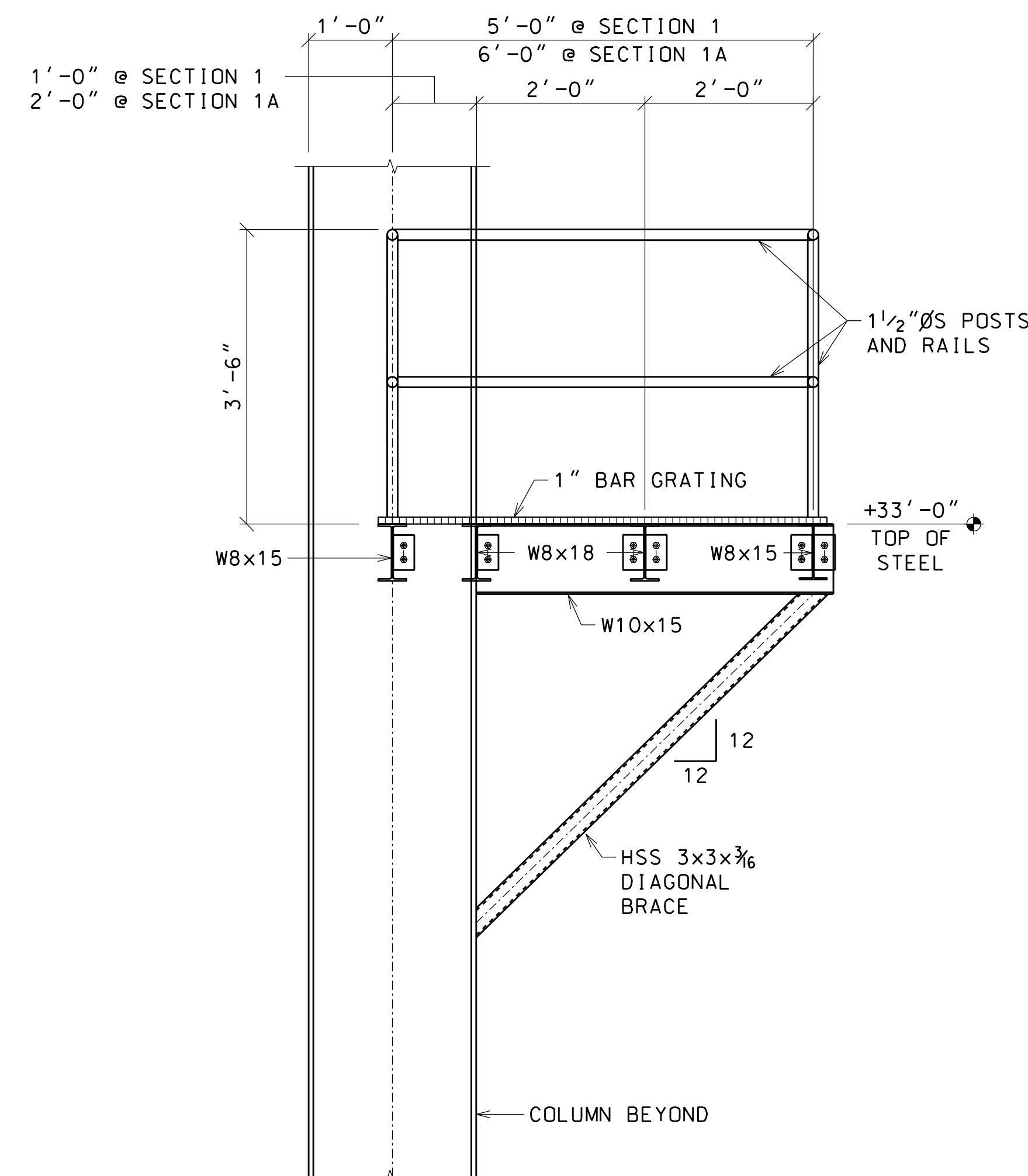
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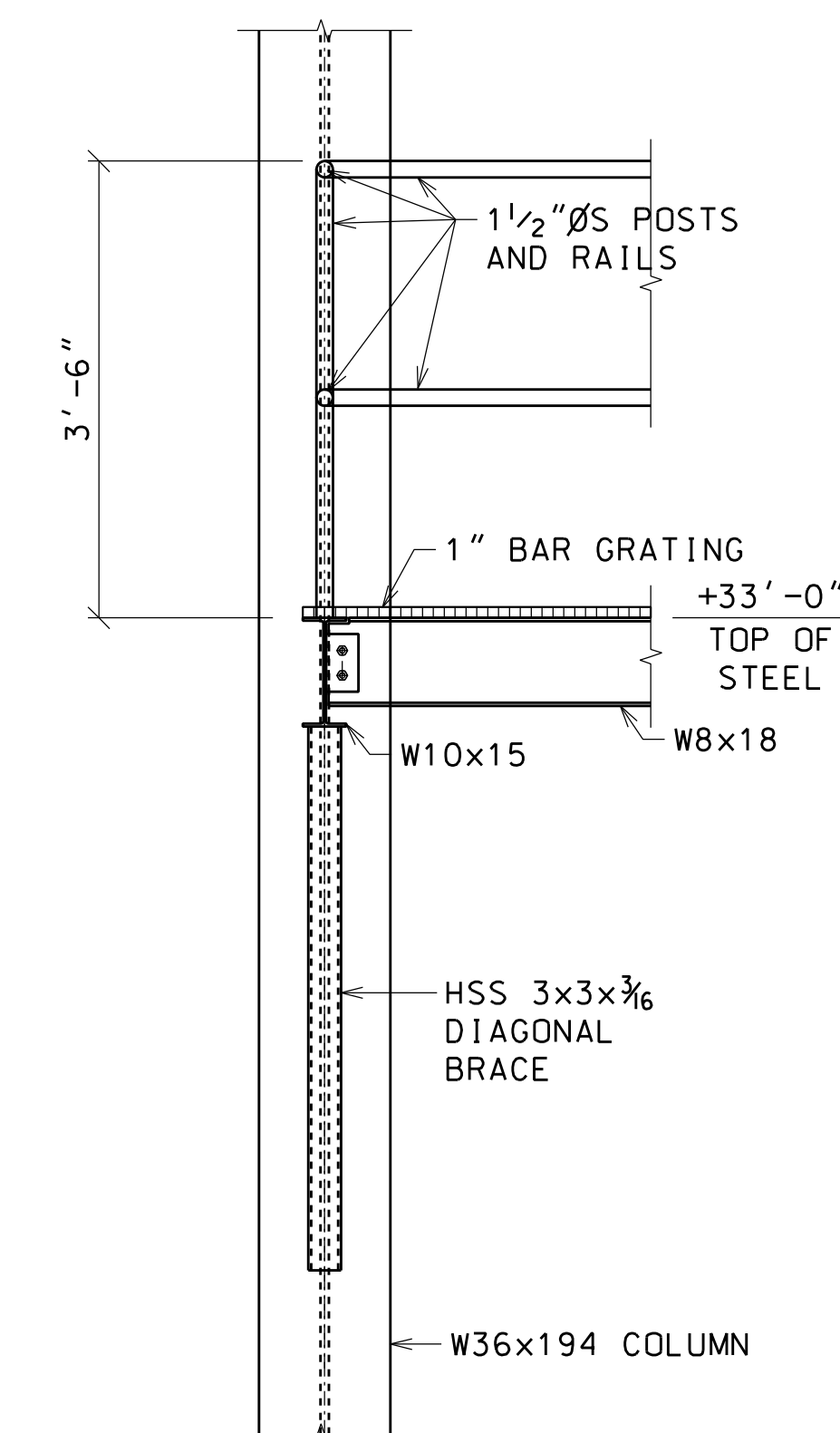
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(2 REQUIRED)



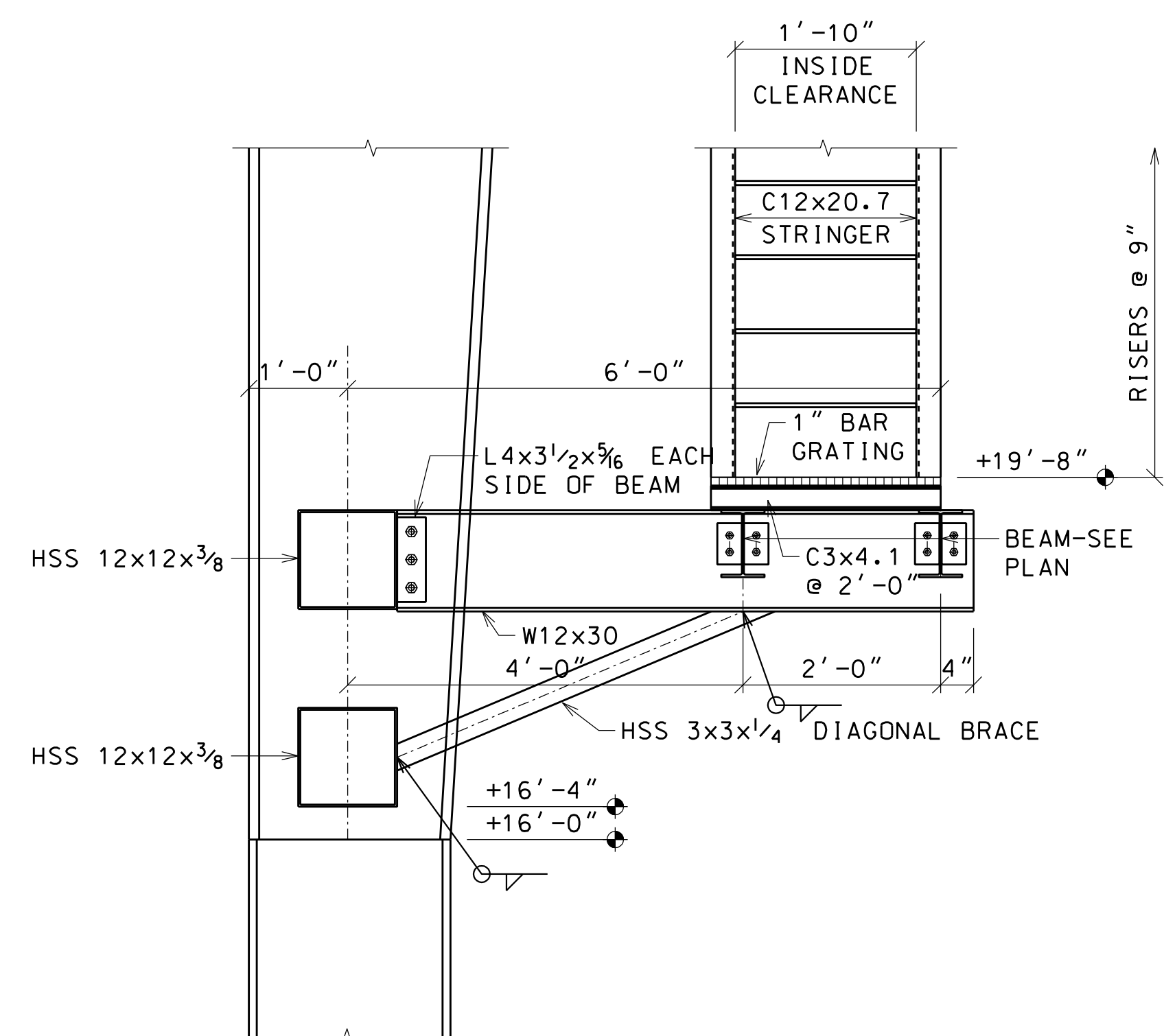
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(1 REQUIRED)



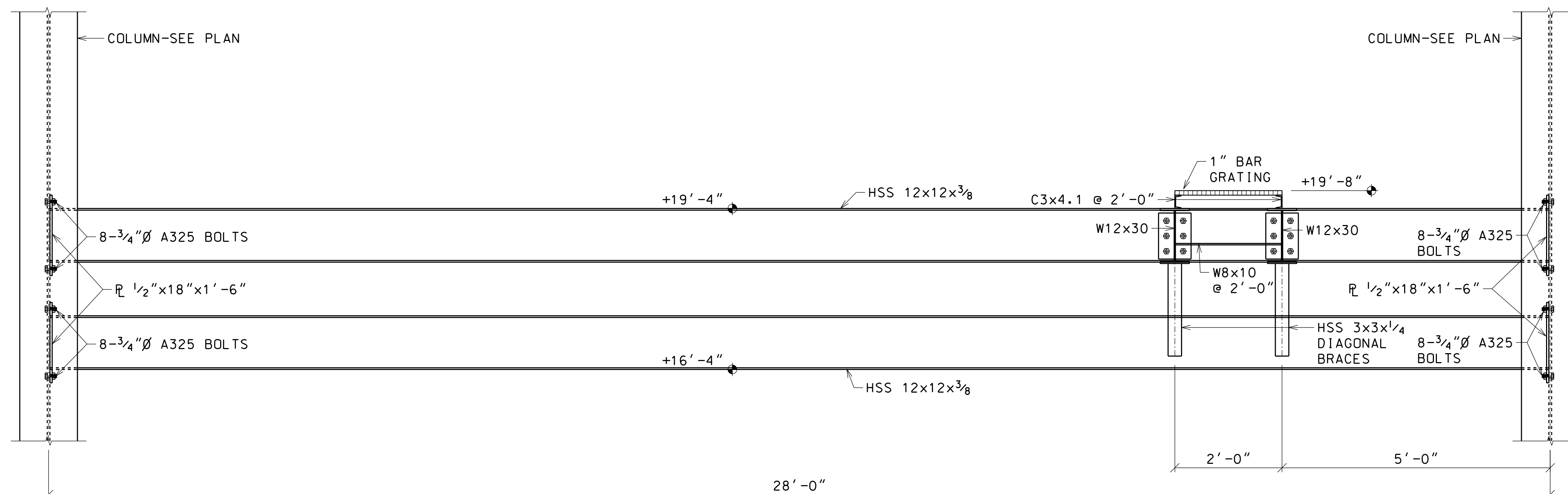
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AS SHOWN
1A AS NOTED



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



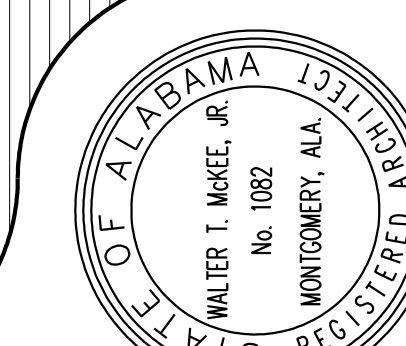
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SECTION 4 3/4"=1'-0"

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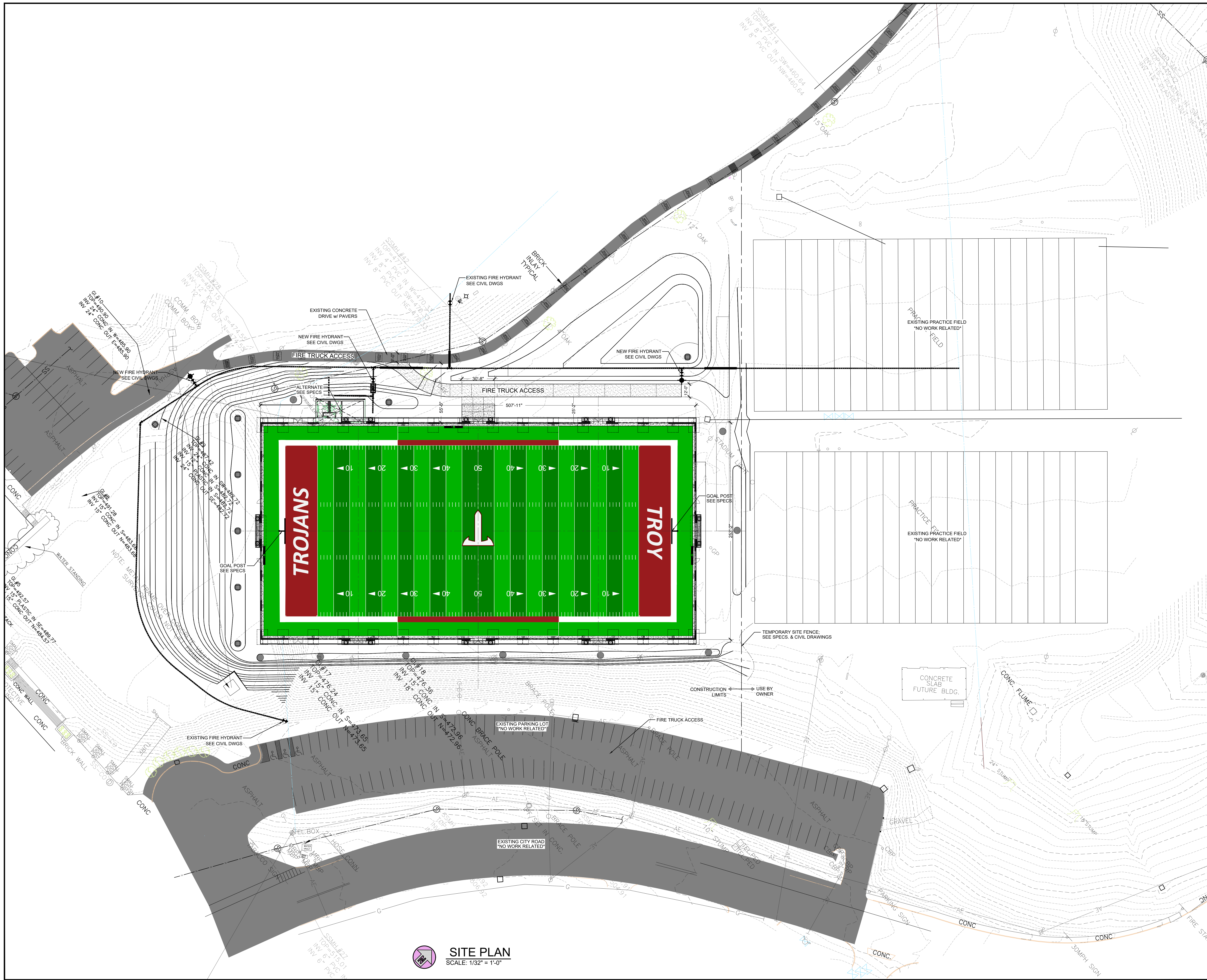
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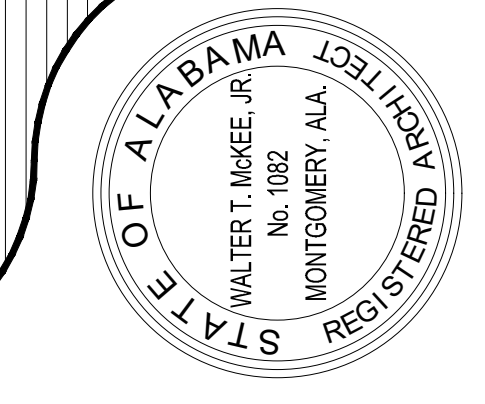
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 **SITE PLAN**
SCALE: 1/32" = 1'-0"

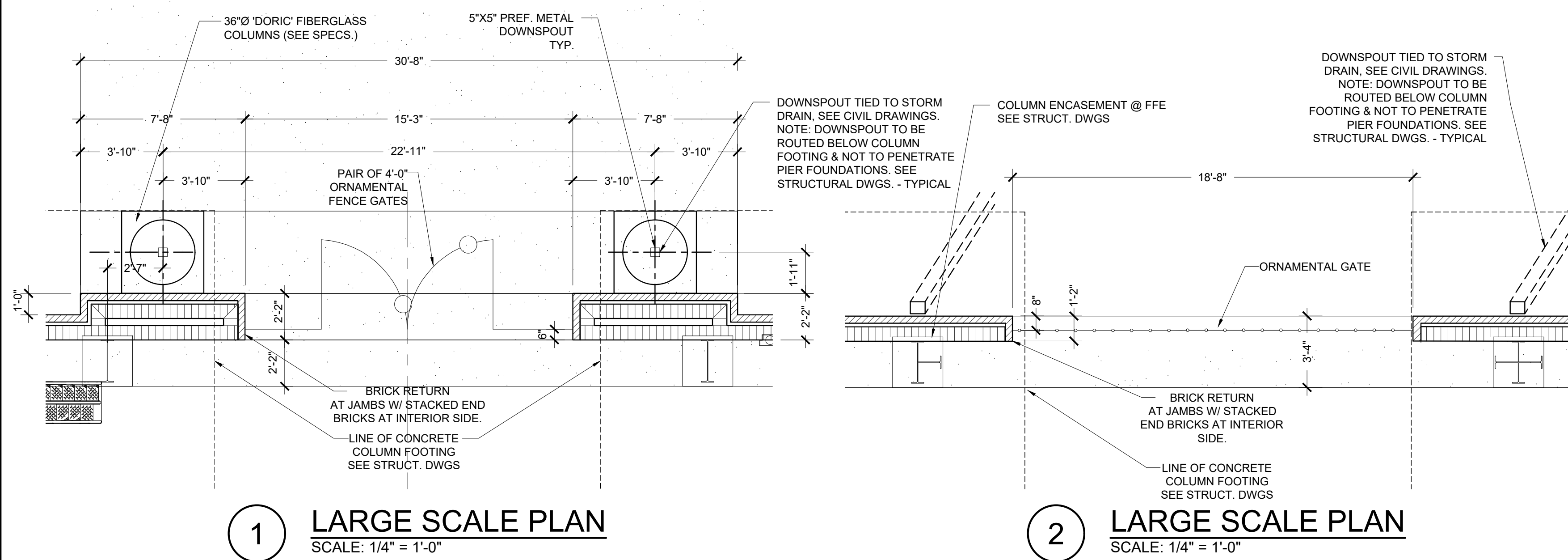
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631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

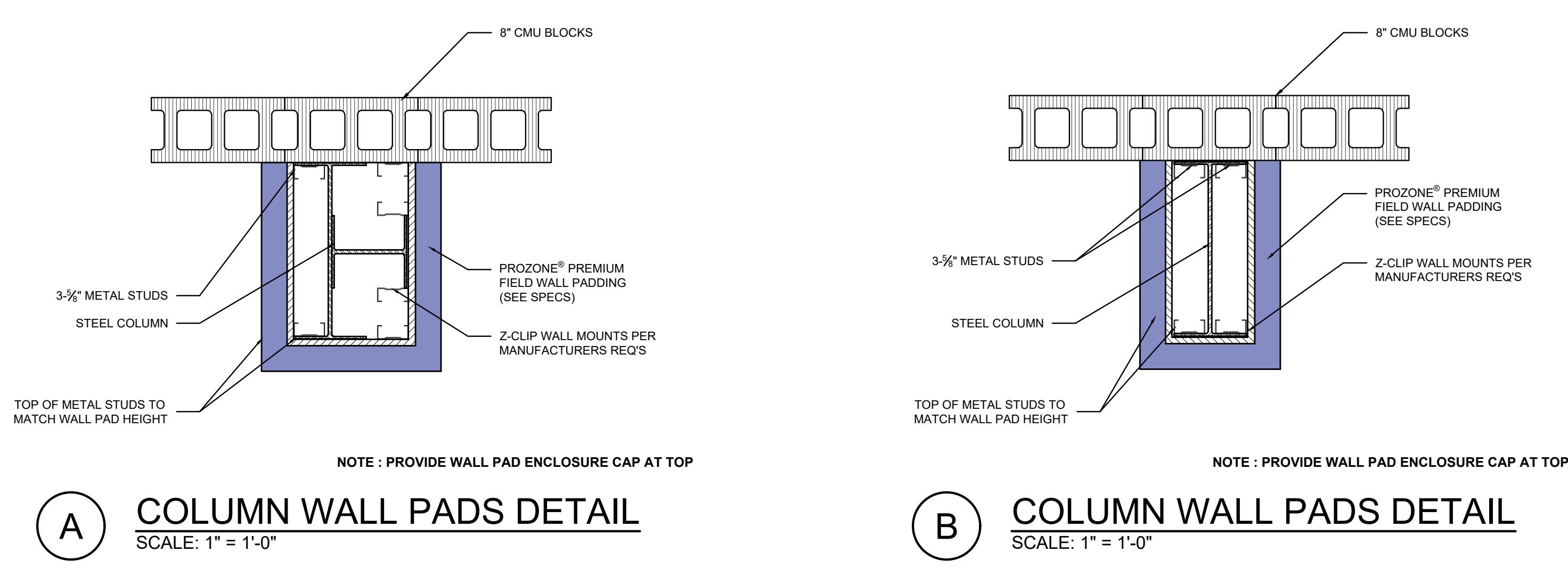
SHEET TITLE : SITE PLAN
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE : 10.10.24
REVISED DATE :
REVISED DATE :

SHEET NO. : **A0.1**



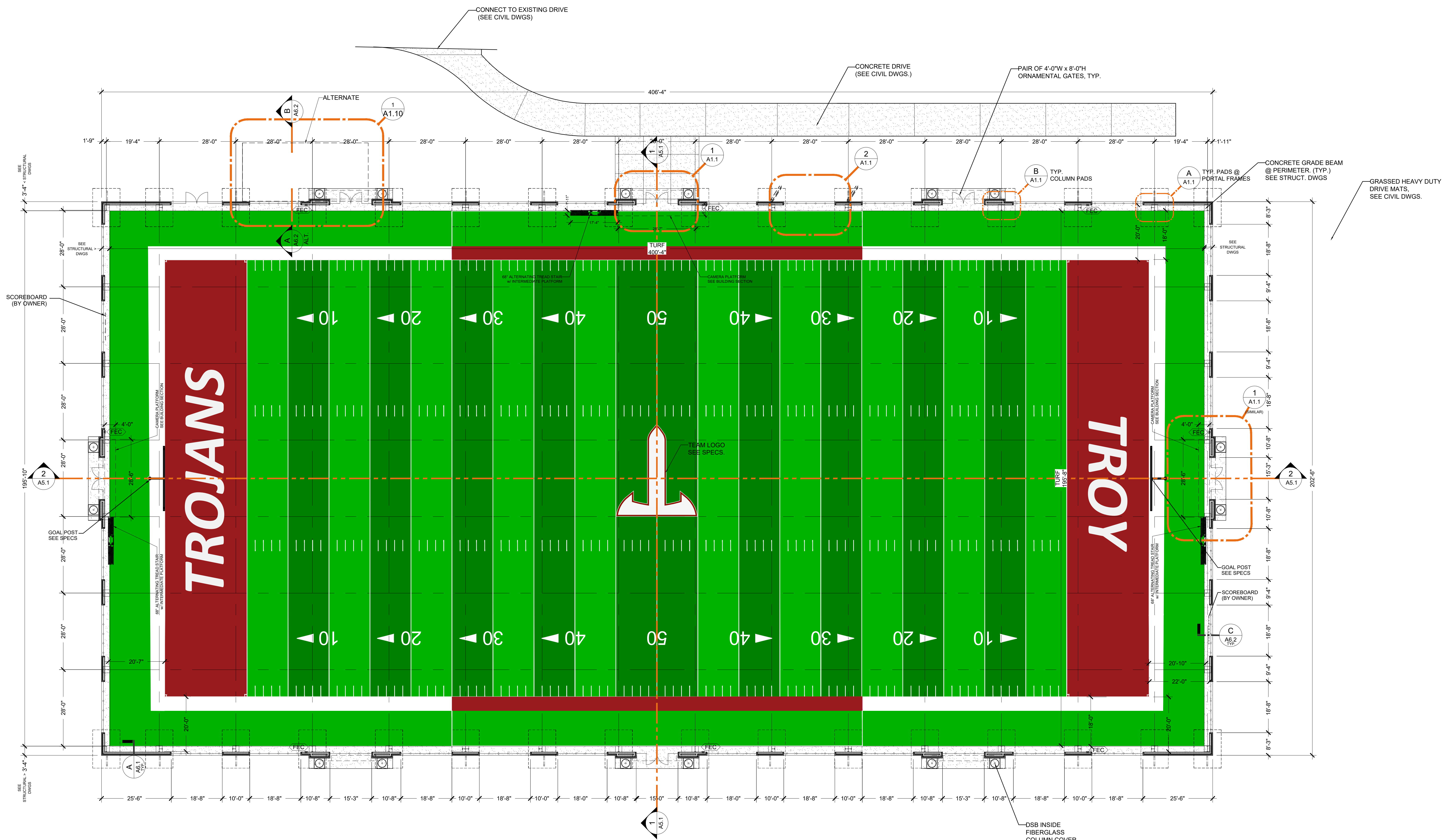
1 LARGE SCALE PLAN
SCALE: 1/4" = 1'-0"

2 LARGE SCALE PLAN
SCALE: 1/4" = 1'-0"



A COLUMN WALL PADS DETAIL
SCALE: 1" = 1'-0"

B COLUMN WALL PADS DETAIL
SCALE: 1" = 1'-0"



FLOOR PLAN
SCALE: 1/16" = 1'-0"

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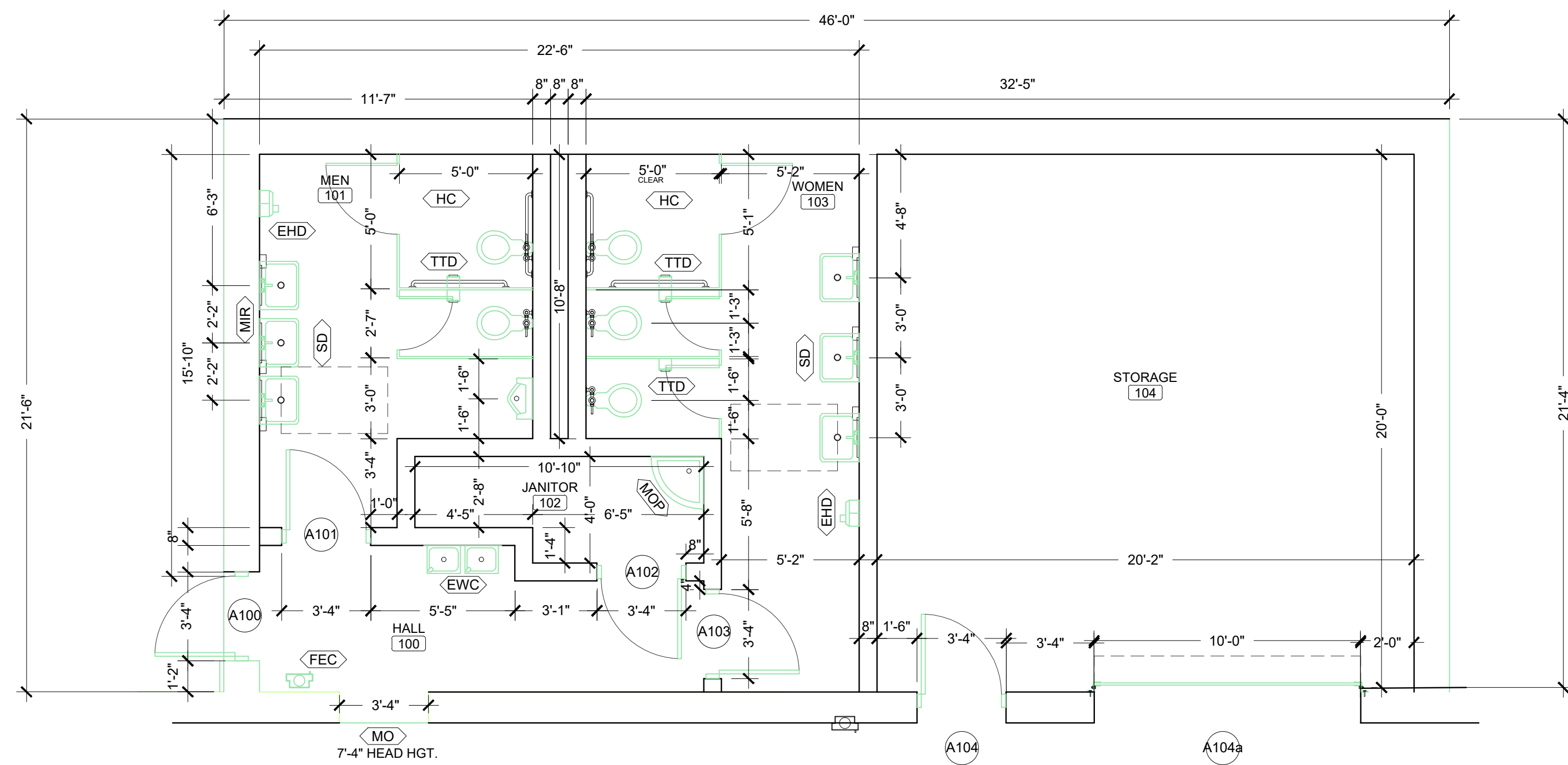
MCKEE and ASSOCIATES
ARCHITECTS, INC.



SHEET TITLE : FLOOR PLAN
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE :
REVISED DATE :
REVISED DATE :

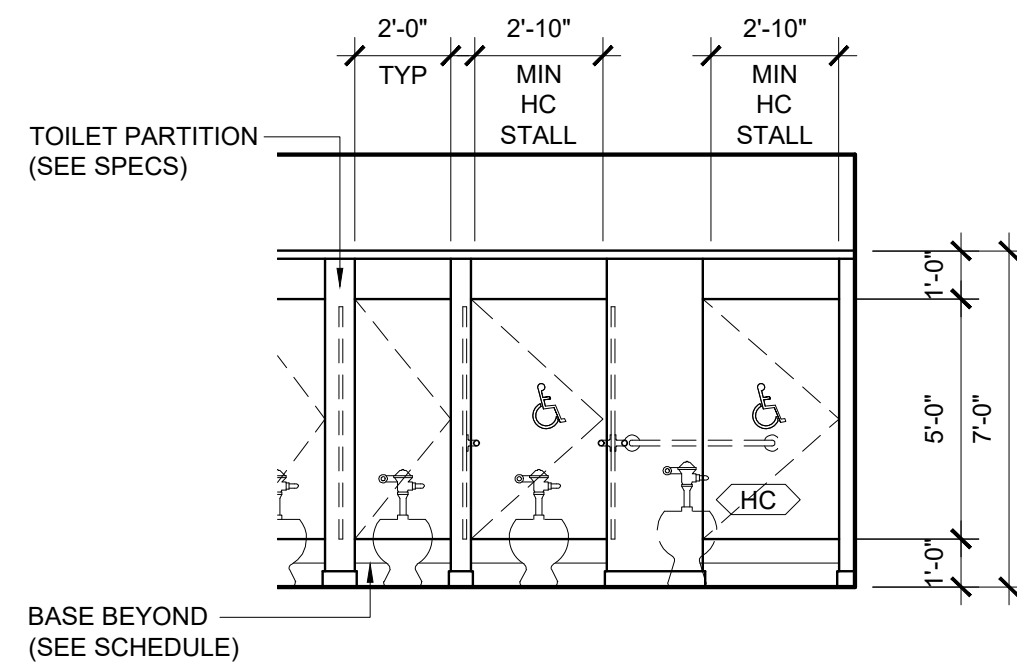
SHEET NO. : A1.1

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- Thursday, October 24, 2024 3:43:34 PM

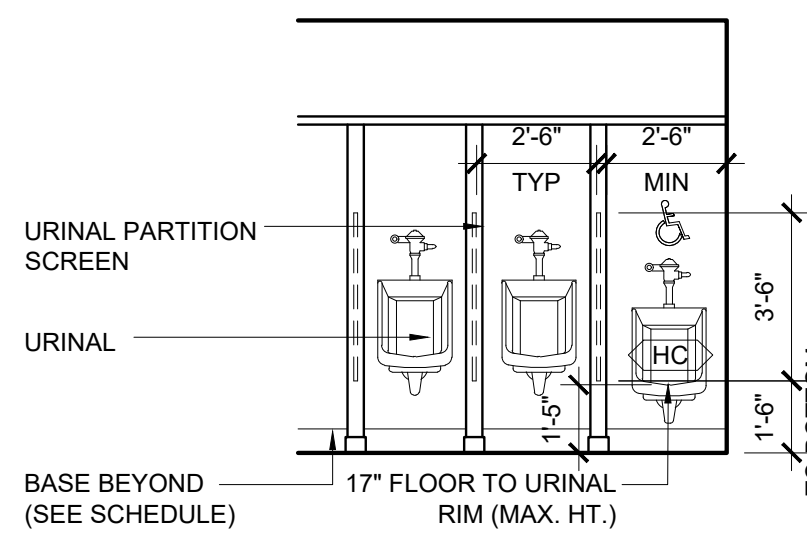


1 LARGE SCALE PLAN - ALTERNATE
SCALE: 1/4" = 1'-0"

IBC 2021 OCCUPANCY TYPE 'U' - UTILITY
NON-SPRINKLER 1 ONE STORY
CONSTRUCTION TYPE II B

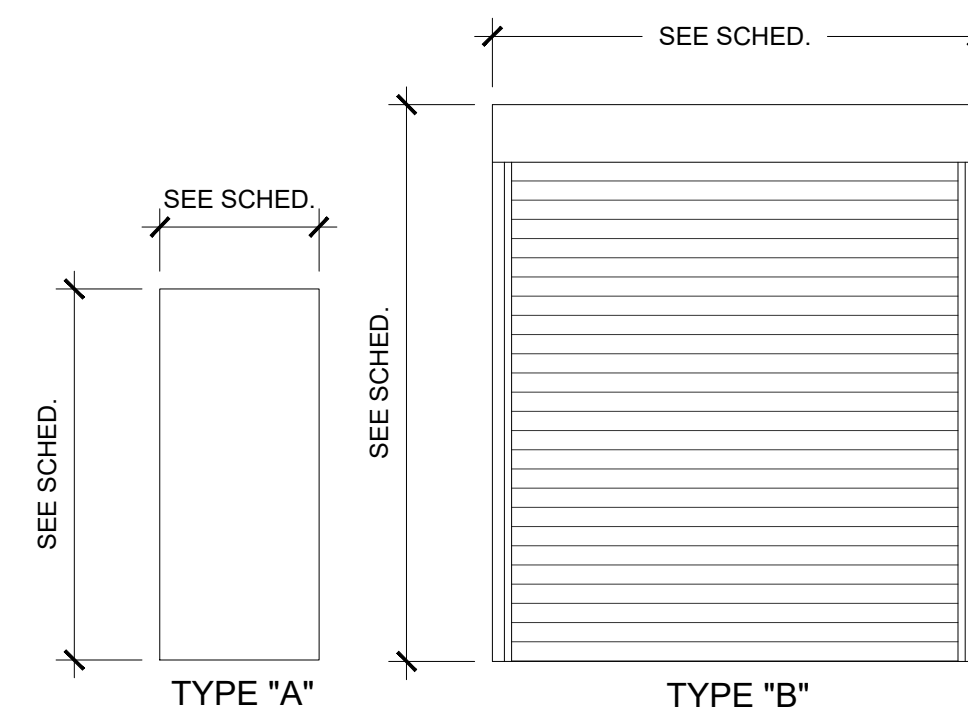


TYPICAL TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" = 1'-0"

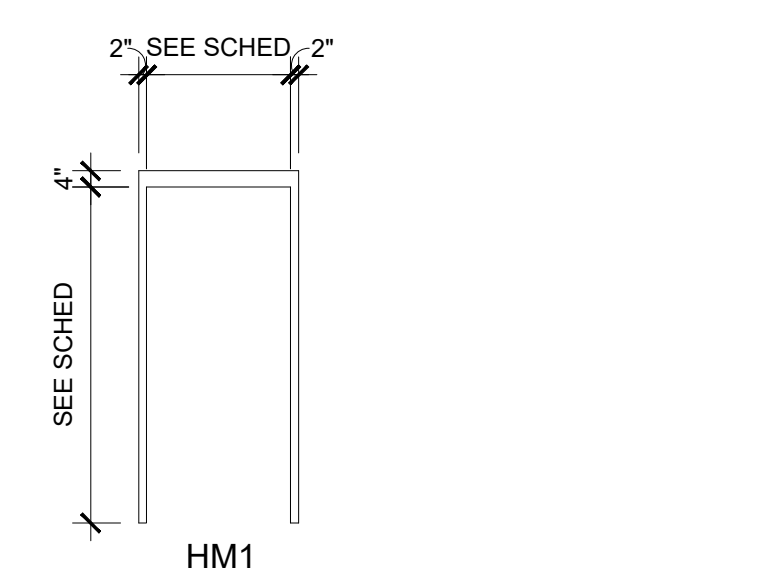


TYPICAL URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE - ALTERNATE													
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	HEAD DETAILS	JAMB	SIGNAGE	REMARKS
A100	3'-4"	7'-0"	1 3/4"	HOLLOW METAL	A	PAINT	HM1	PAINT	---	2/A1.10	3/A1.10	HALL	---
A101	3'-4"	7'-0"	1 3/4"	HOLLOW METAL	A	PAINT	HM1	PAINT	---	4/A1.10	5/A1.10	MEN	---
A102	3'-4"	7'-0"	1 3/4"	HOLLOW METAL	A	PAINT	HM1	PAINT	---	4/A1.10	5/A1.10	JANITOR	---
A103	3'-4"	7'-0"	1 3/4"	HOLLOW METAL	A	PAINT	HM1	PAINT	---	4/A1.10	5/A1.10	WOMAN	---
A104	3'-4"	7'-0"	1 3/4"	HOLLOW METAL	A	PAINT	HM1	PAINT	---	2/A1.10	3/A1.10	STORAGE	---
A104a	10'-0"	7'-0"	---	OVERHEAD COILING	B	FACTORY	---	FACTORY	---	6/A1.10	7/A1.10	STORAGE	---



TYPICAL DOOR TYPES
SCALE: 1/4" = 1'-0"



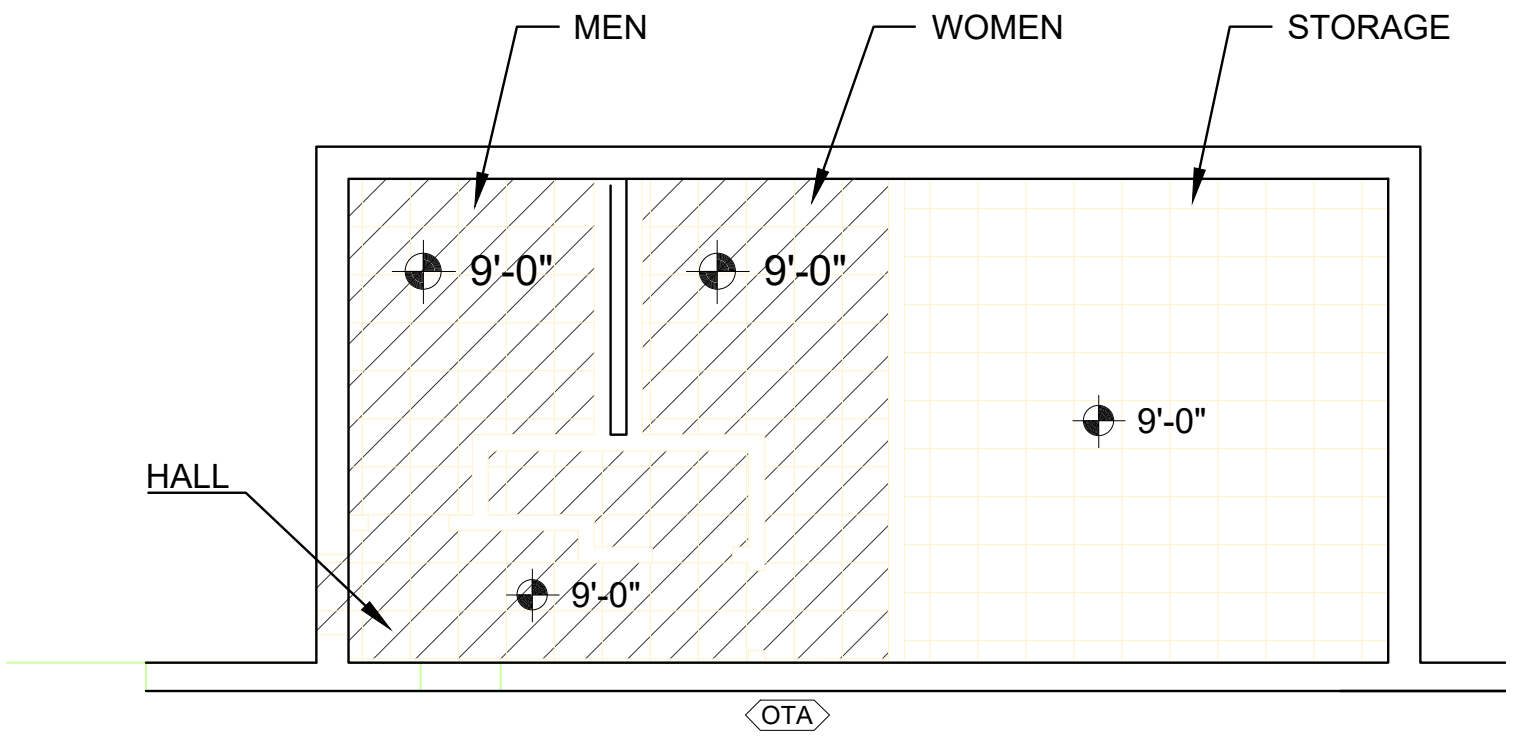
TYPICAL FRAME TYPES
SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE - ALTERNATE												
ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
A100	HALL	SC	---	CMUP	CMUP	CMUP	CMUP	---	---	---	---	---
A101	MENS	SC	---	CMUP	CMUP	CMUP	CMUP	---	---	---	---	---
A102	JANITOR	SC	---	CMUP	CMUP	CMUP	CMUP	---	---	---	---	---
A103	WOMENS	SC	---	CMUP	CMUP	CMUP	CMUP	---	---	---	---	---
A104	STORAGE	SC	---	CMUP	CMUP	CMUP	CMUP	---	---	---	---	---

TOILET ACCESSORIES LEGEND	
KEYNOTE	DESCRIPTION
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 9" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 18" & 48" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (SEE SPECS)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 33" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)

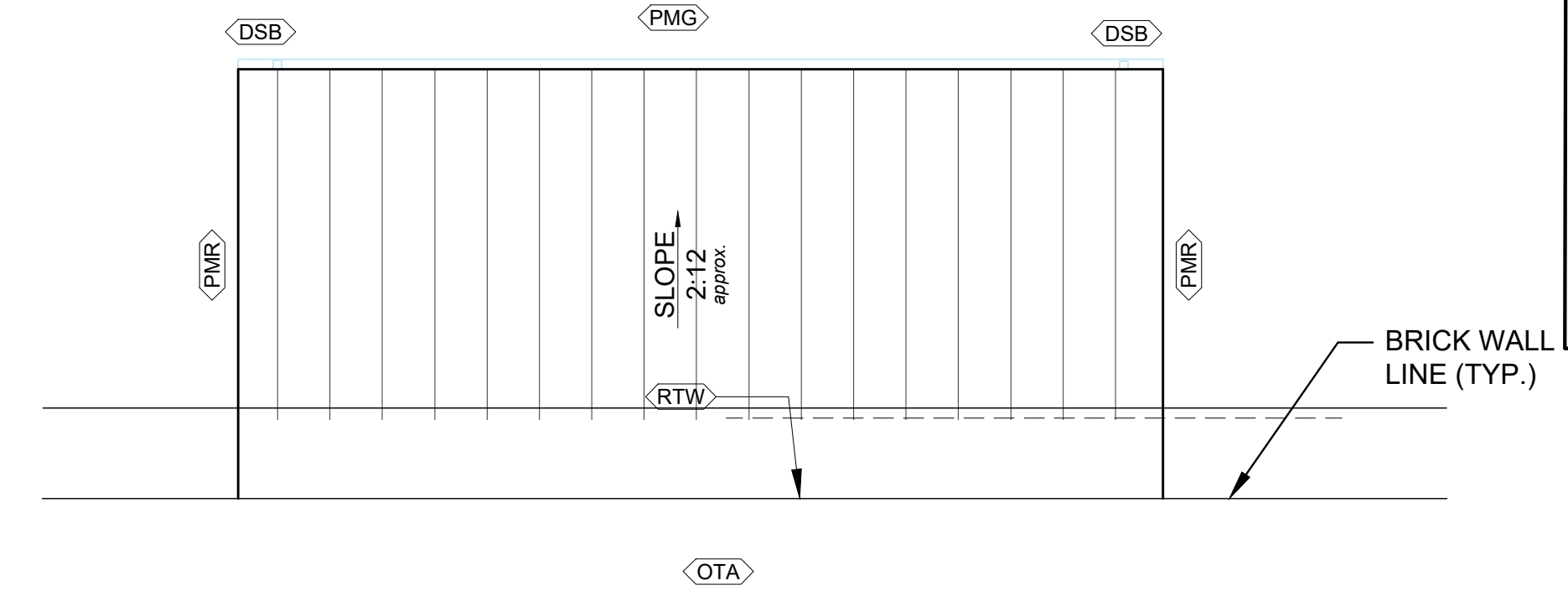
FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
(A-)	SCHEDULED DOOR AND FRAME
CORRIDOR	SCHEDULED ROOM NAME AND NUMBER
(- AX X)	SECTION / DETAIL SYMBOL
(- AX X)	BUILDING SECTION SYMBOL
(P-)	WALL PARTITION TYPES
(EWC)	ELECTRIC WATER COOLER (SEE DETAIL A9.1)
(FEC)	FIRE EXTINGUISHER CABINET (SEE DETAIL A9.1)
(MO)	MASONRY OPENING
(DSB)	PREFINISHED METAL DOWNSPOUT TO BOOT

REFLECTED CEILING PLAN LEGEND	
SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
(Grid)	2x2' LAY-IN ACOUSTICAL CEILING
(Grid)	2x2' VINYL CLAD LAY-IN ACOUSTICAL CEILING
(OTA)	OPEN TO ABOVE
(Light)	2x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
(Light)	2x2' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
(Light)	1x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
(Light)	1x4' SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
(Light)	RECESSED ROUND LIGHT FIXTURE (SEE ELECTRICAL)
(Grille)	HVAC SUPPLY AIR GRILLE (SEE MECHANICAL)
(Grille)	HVAC RETURN AIR GRILLE (SEE MECHANICAL)
(Grille)	EXHAUST FAN GRILLE (SEE MECHANICAL)
(Grille)	CASSETTE HEAT PUMP (SEE MECHANICAL)

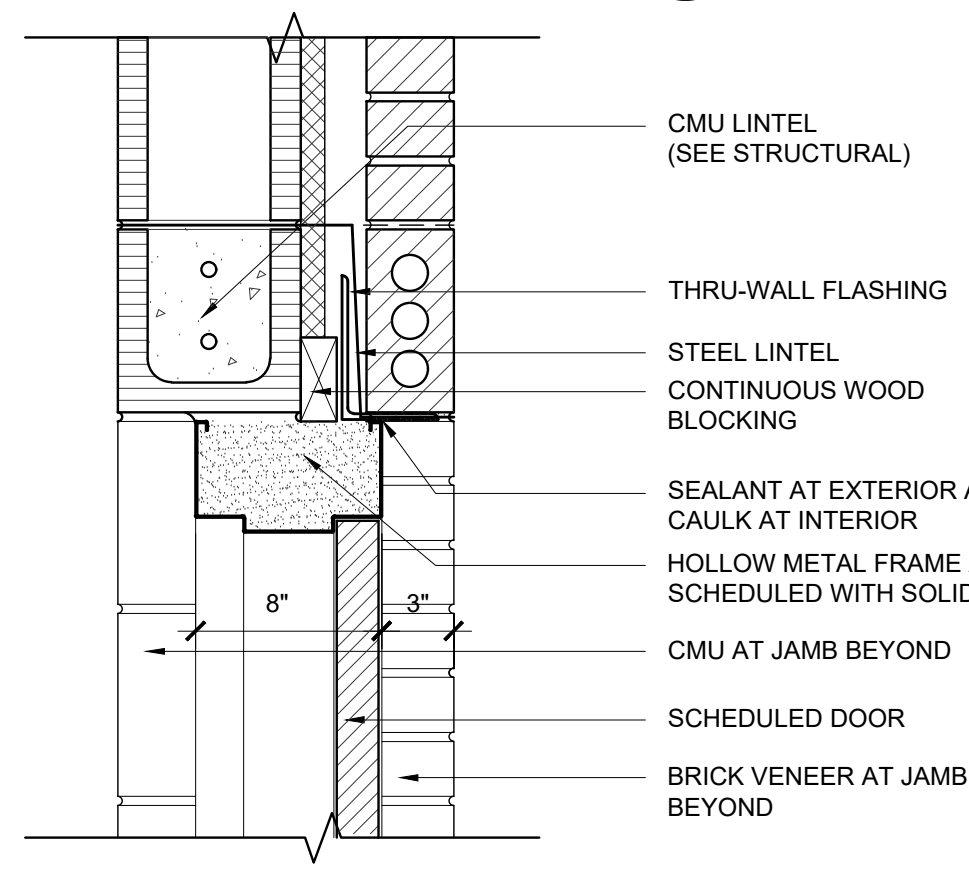


REFLECTED CEILING PLAN - ALTERNATE
SCALE: 1/8" = 1'-0"

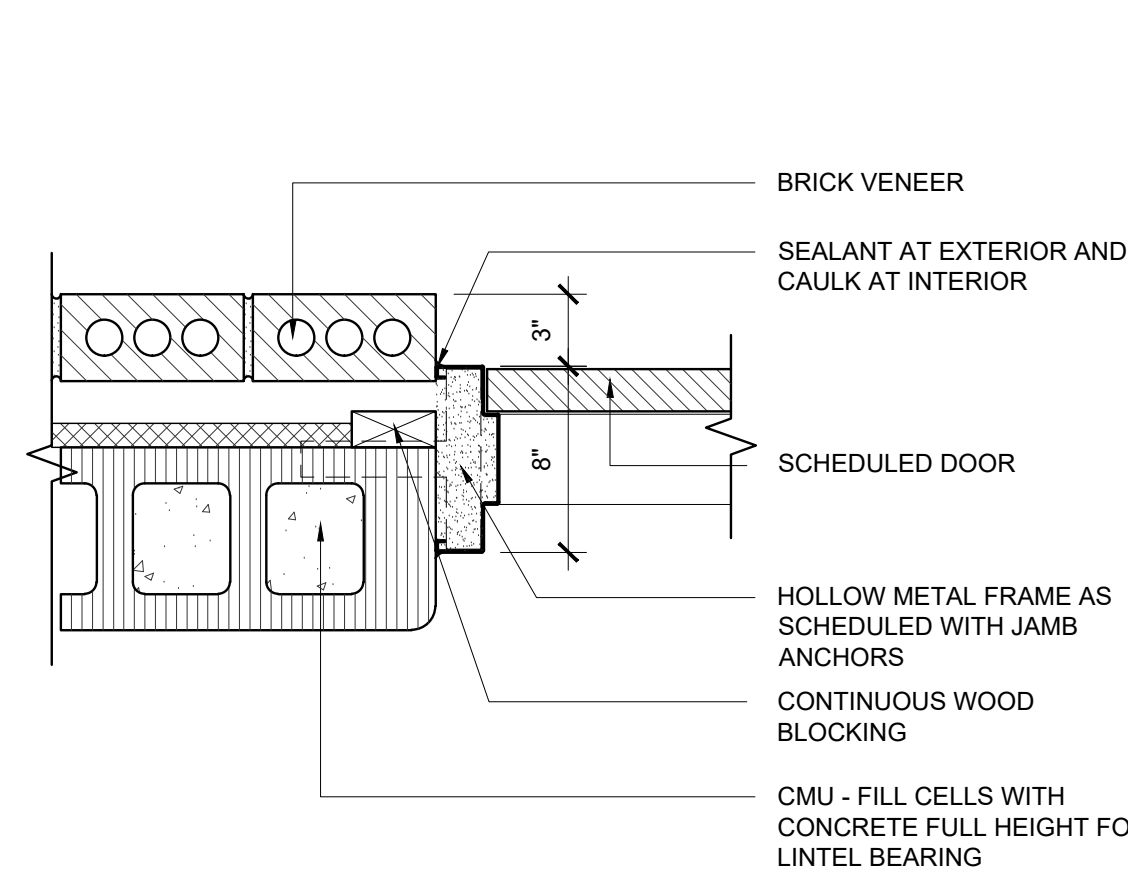
ROOF PLAN LEGEND	
SYMBOL	DESCRIPTION
(MRP)	METAL ROOF PANELS
(DSB)	DOWNSPOUT BOOT
(PMG)	PREFINISHED METAL GUTTER
(PMR)	PREFINISHED METAL RAKE TRIM
(RTW)	ROOF TO WALL FLASHING



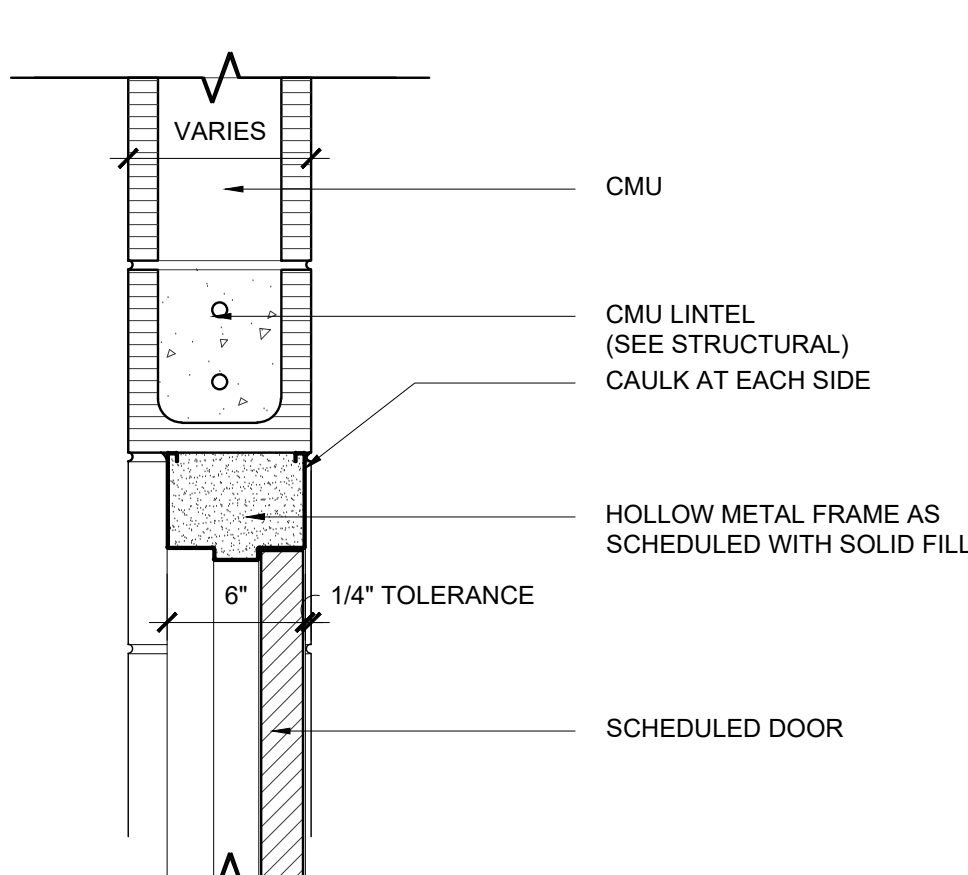
ROOF PLAN ALTERNATE
SCALE: 1/8" = 1'-0"



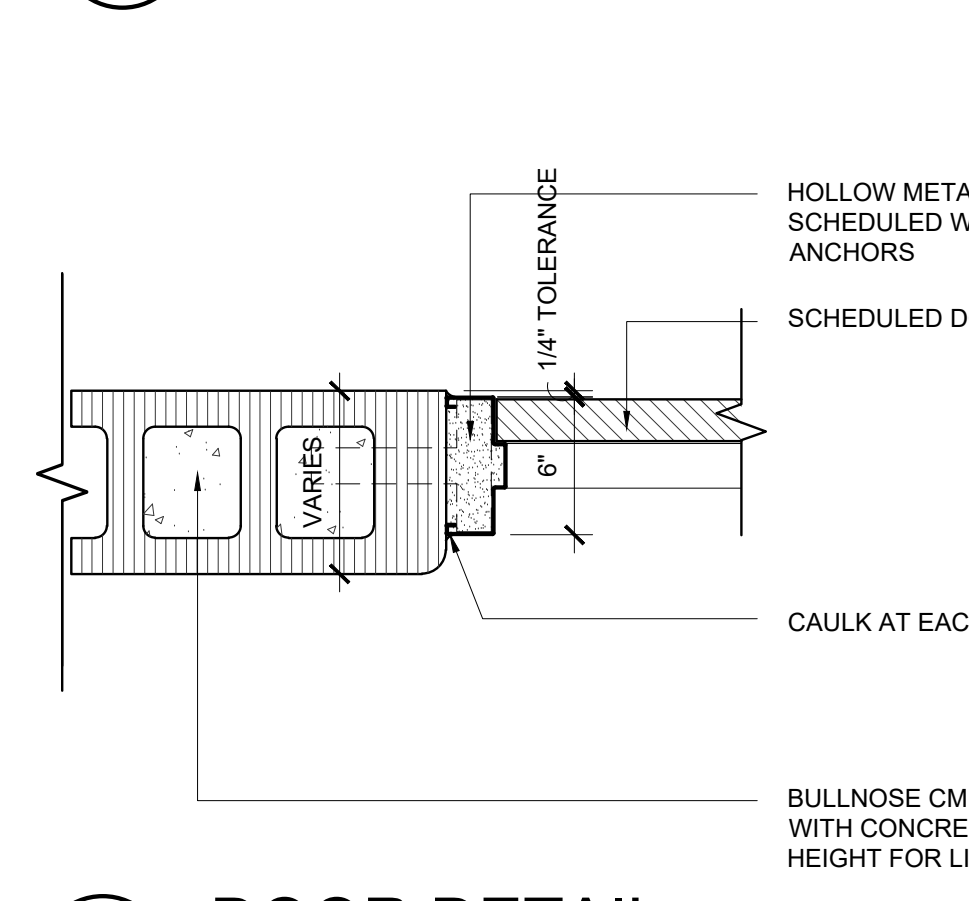
2 DOOR DETAIL HEAD
SCALE: 1 1/2" = 1'-0"



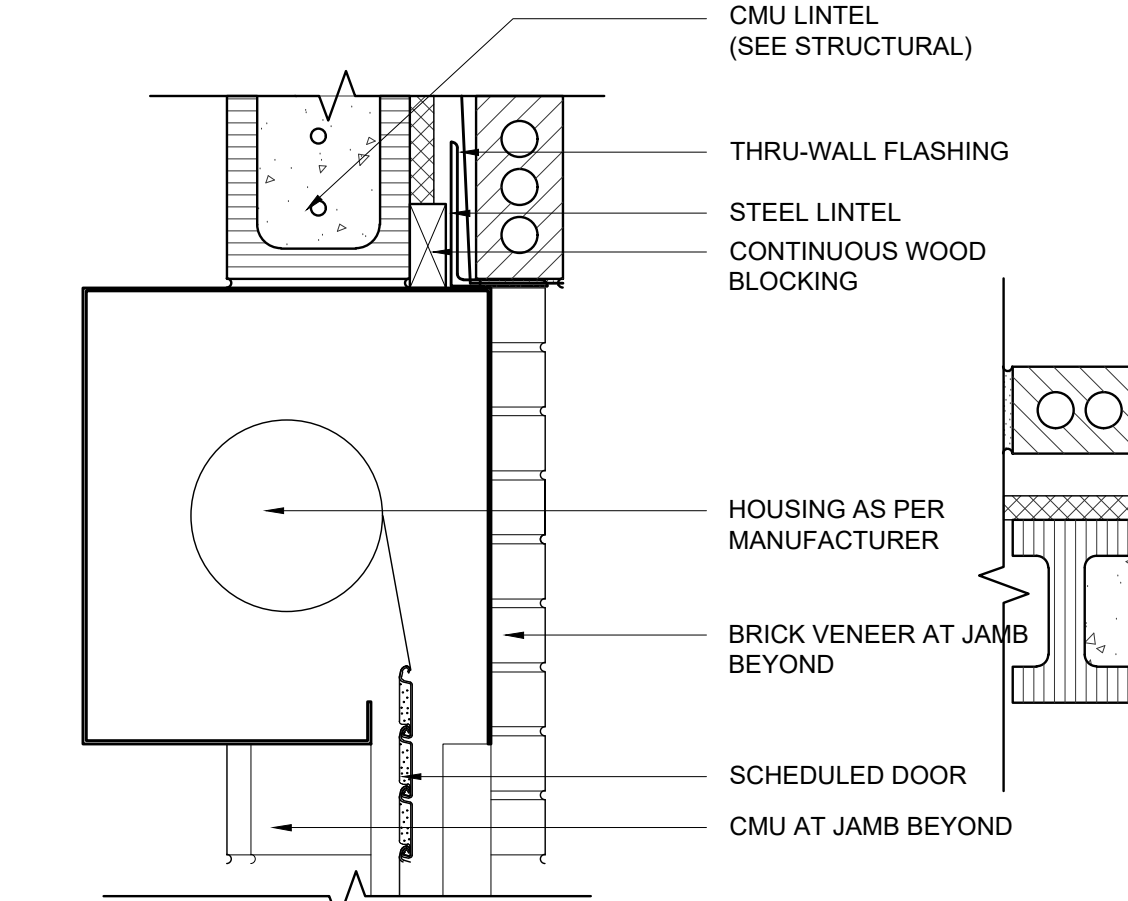
3 DOOR DETAIL JAMB
SCALE: 1 1/2" = 1'-0"



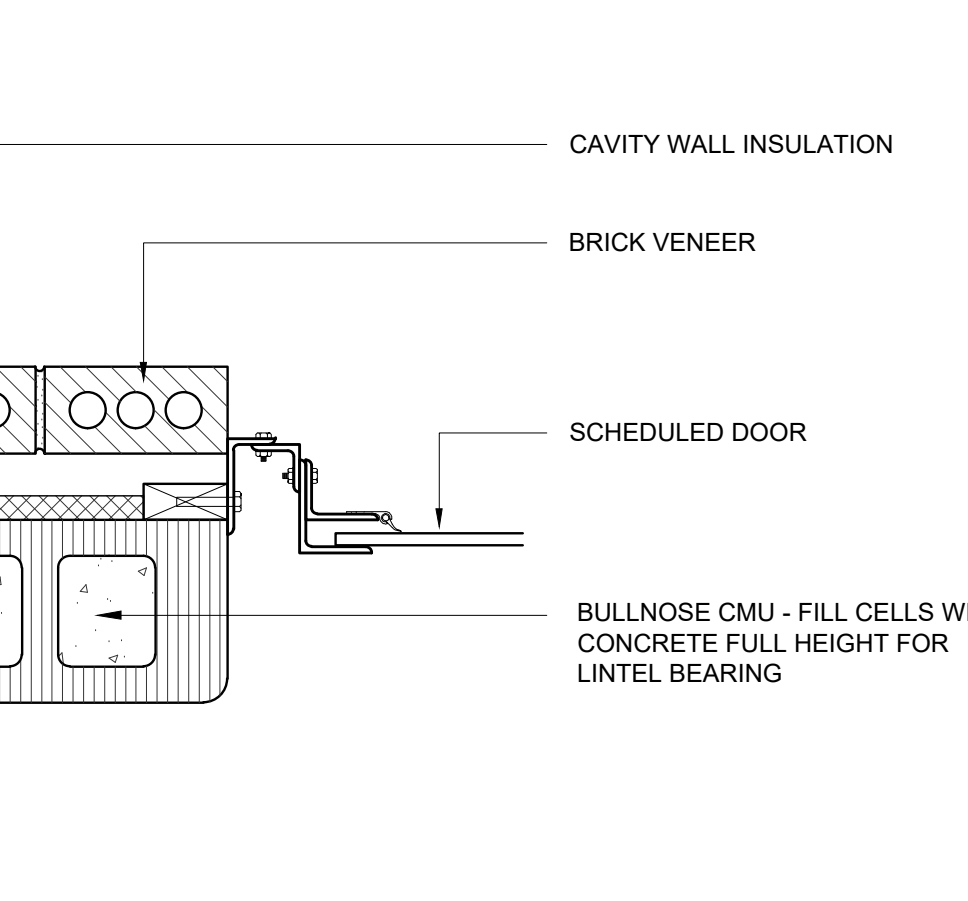
4 DOOR DETAIL HEAD
SCALE: 1 1/2" = 1'-0"



5 DOOR DETAIL JAMB
SCALE: 1 1/2" = 1'-0"



6 DOOR DETAIL HEAD
SCALE: 1 1/2" = 1'-0"



7 DOOR DETAIL JAMB
SCALE: 1 1/2" = 1'-0"

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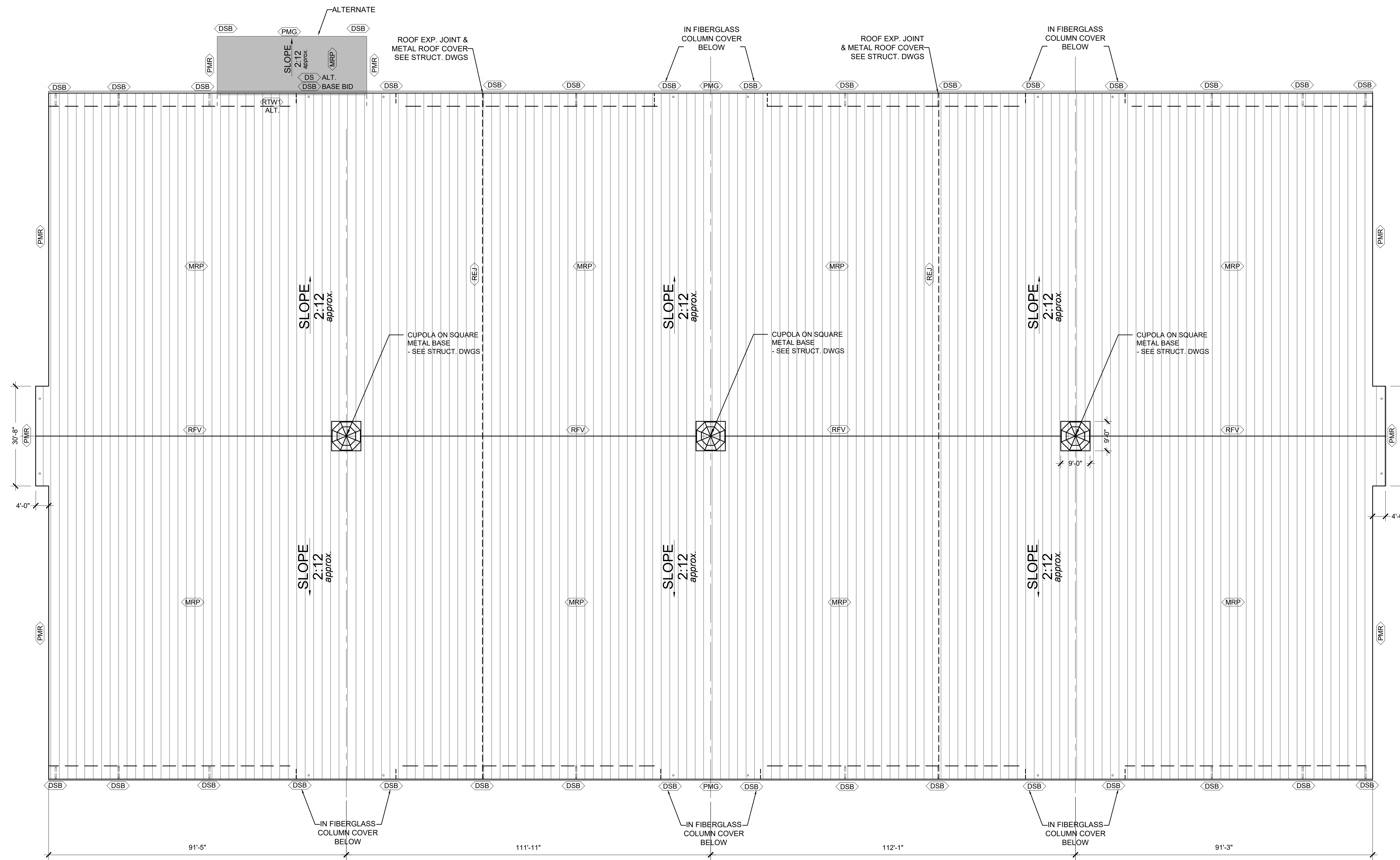


SHEET TITLE : TOILET BUILDING (ALTERNATE)
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE :
REVISED DATE :

SHEET NO. : A1.10

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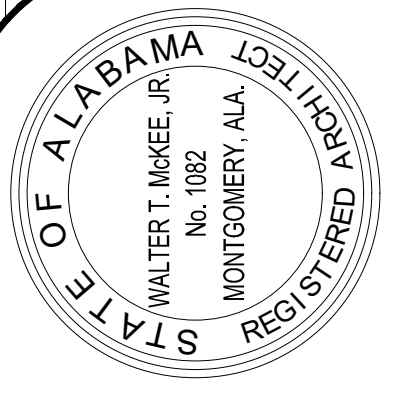
ROOF PLAN LEGEND	
SYMBOL	DESCRIPTION
	METAL ROOF PANELS
	SOFFIT
	CUPOLA (TYP.)
	DETAIL SYMBOL
	DOWNSPOUT (SEE SPECS) ONTO ROOF BELOW (ALT.)
	DOWNSPOUT INSIDE COLUMN
	PREFINISHED METAL GUTTER; STRAPS @ 24" O.C.
	RIDGE FLASHING - VENTED
	ROOF EXPANSION JOINT - SEE STRUCTURAL DWGS.
	PREFINISHED METAL FASCIA
	PREFINISHED METAL EAVE TRIM
	PREFINISHED METAL DOWNSPOUT INTO BOOT, SEE CIVIL FOR STORM DRAIN REQUIREMENTS.
	PREFINISHED METAL ROOF
	ROOF TO WALL DETAIL - SEE SHEET A/A6.2



ROOF PLAN
SCALE: 1/16" = 1'-0"

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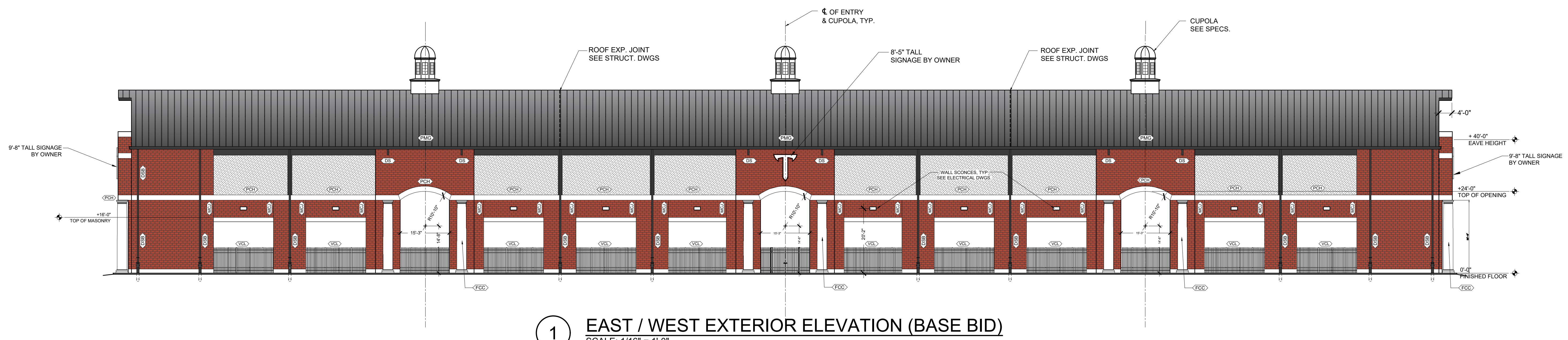


SHEET TITLE : ROOF PLAN
 MCKEE JOB # : 22.339
 DRAWN BY : LAB / DTC
 DATE : 10.24.24
 REVISED DATE :
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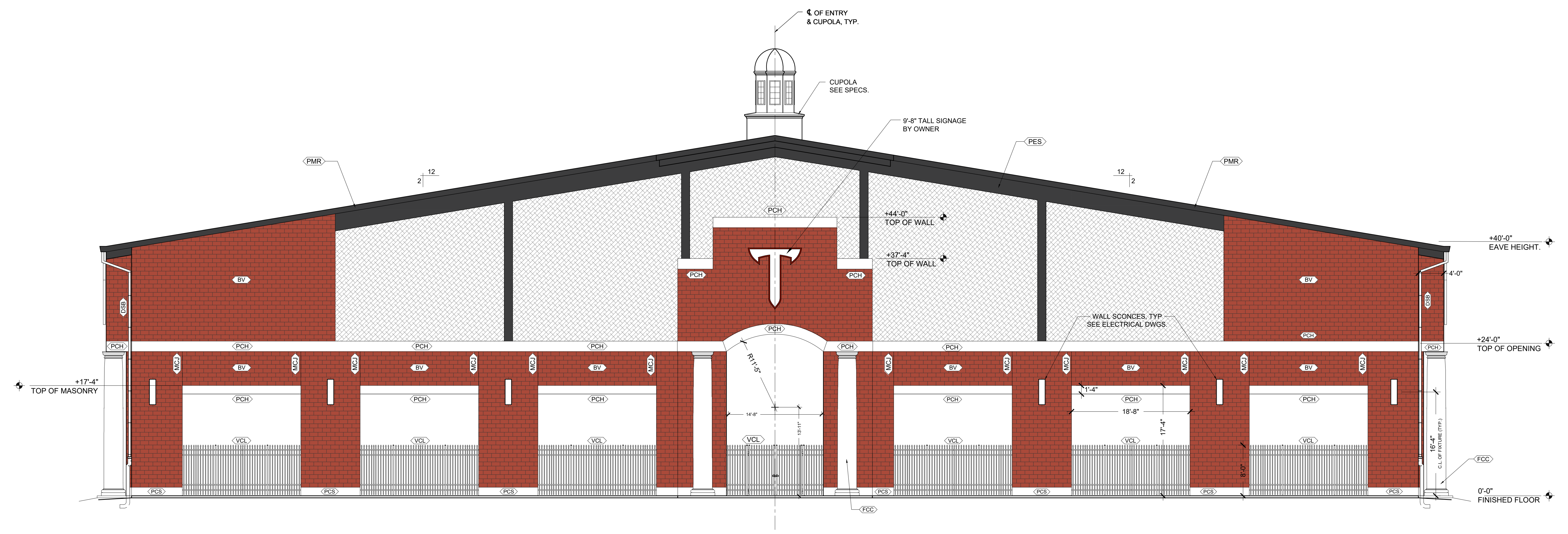
SHEET NO. : **A3.1**

- Z:\2022\22-339 Indoor Football Practice for Troy UCAD Drawings\Architectural\A3.1 Roof Plan.dwg
 - Thursday, October 24, 2024 3:50:09 PM

EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
	BUILDING SECTION SYMBOL
<DSB>	PREFINISHED METAL DOWNSPOUT TO BOOT
<DS>	PREFINISHED METAL DOWNSPOUT
<MCJ>	MASONRY CONTROL JOINT LOCATIONS
<MRP>	METAL ROOF PANELS
<BV>	BRICK VENEER
<CS>	CAST STONE
<OF>	ORNAMENTAL FENCING
<VCL>	VINYL COATED CHAIN LINK FENCING
<PMG>	PREFINISHED METAL GUTTER
<PMR>	PREFINISHED METAL RAKE TRIM
<PME>	PREFINISHED METAL EAVE TRIM
<PCH>	PRE-CAST CONCRETE HEADER
<PES>	PAINTED EXPOSED STRUCTURE
<FCC>	3'10"Ø FIBERGLASS COLUMN COVER



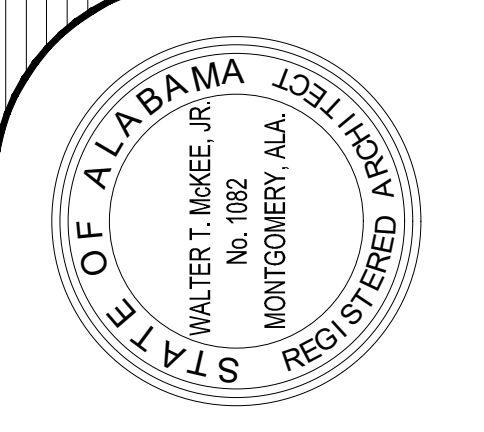
1 EAST / WEST EXTERIOR ELEVATION (BASE BID)
SCALE: 1/16" = 1'-0"



2 NORTH / SOUTH EXTERIOR ELEVATION (BASE BID)
SCALE: 1/8" = 1'-0"

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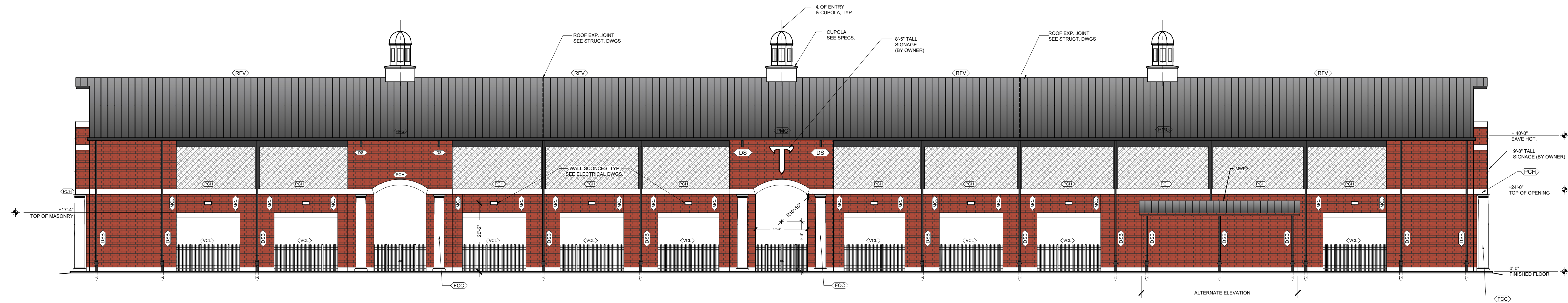


SHEET TITLE : EXTERIOR ELEVATIONS (BASE BID)
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE :
REVISED DATE :
REVISED DATE :

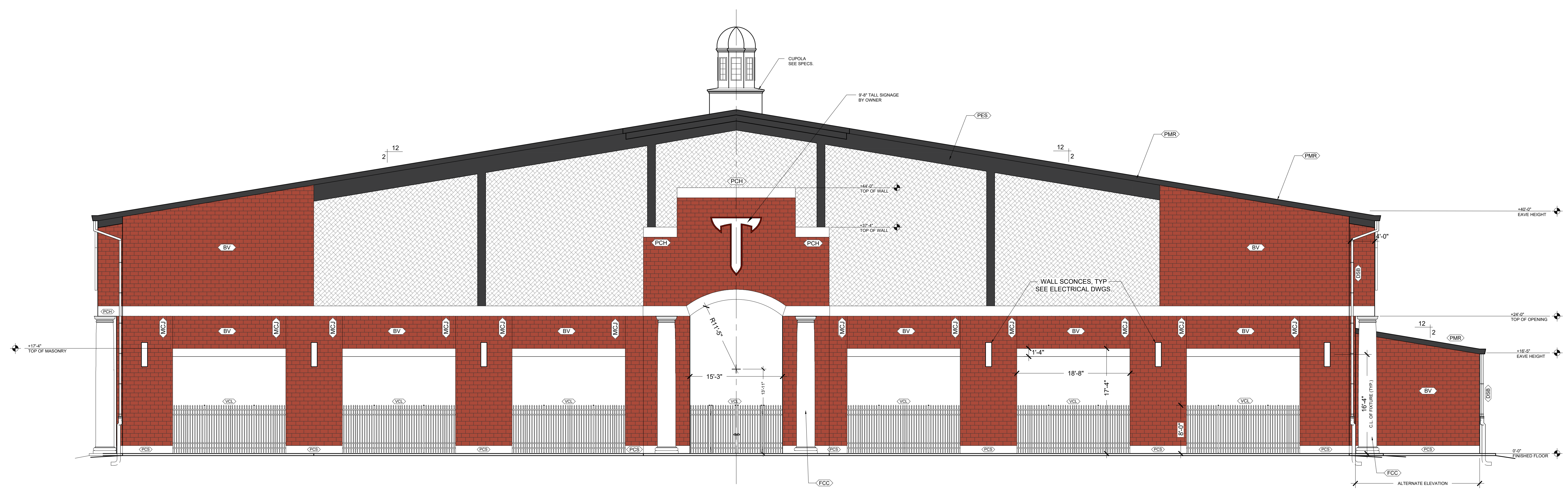
SHEET NO. : A4.1

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- Thursday, October 24, 2024 3:23:19 PM

EXTERIOR ELEVATION LEGEND	
SYMBOL	DESCRIPTION
	BUILDING SECTION SYMBOL
	PREFINISHED METAL DOWNSPOUT TO BOOT
	PREFINISHED METAL DOWNSPOUT
	MASONRY CONTROL JOINT LOCATIONS
	METAL ROOF PANELS
	BRICK VENEER
	CAST STONE
	ORNAMENTAL FENCING
	VINYL COATED CHAIN LINK FENCING
	PREFINISHED METAL GUTTER
	PREFINISHED METAL RAKE TRIM
	PREFINISHED METAL EAVE TRIM
	PRE-CAST CONCRETE HEADER
	PAINTED EXPOSED STRUCTURE
	3'-10 1/2" FIBERGLASS COLUMN COVER



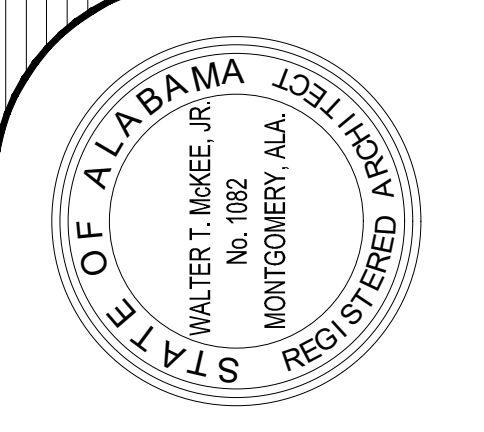
3 EAST / WEST EXTERIOR ELEVATION (ALTERNATE)
SCALE: 1/16" = 1'-0"



4 NORTH / SOUTH EXTERIOR ELEVATION (ALTERNATE)
SCALE: 1/8" = 1'-0"

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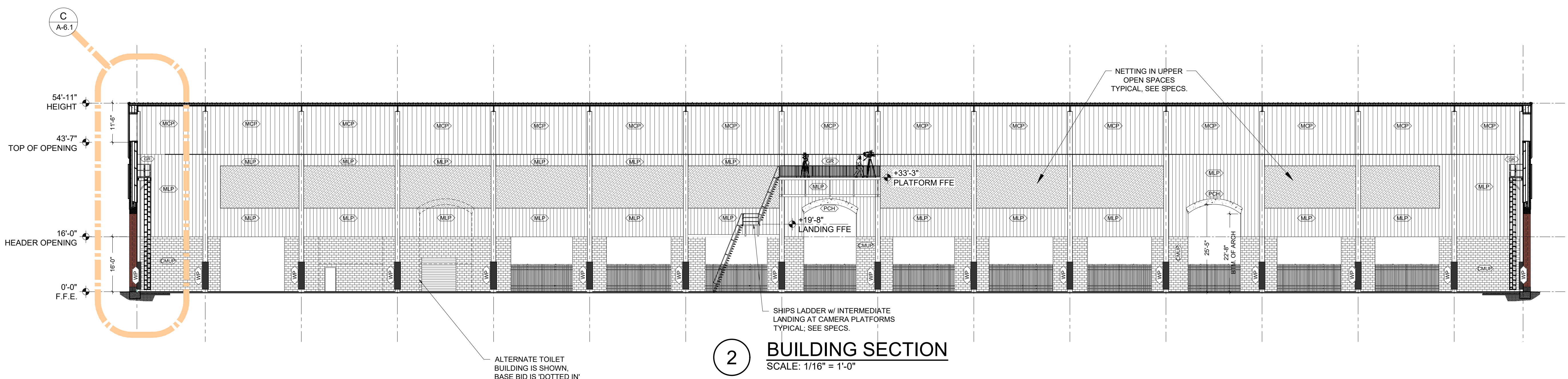
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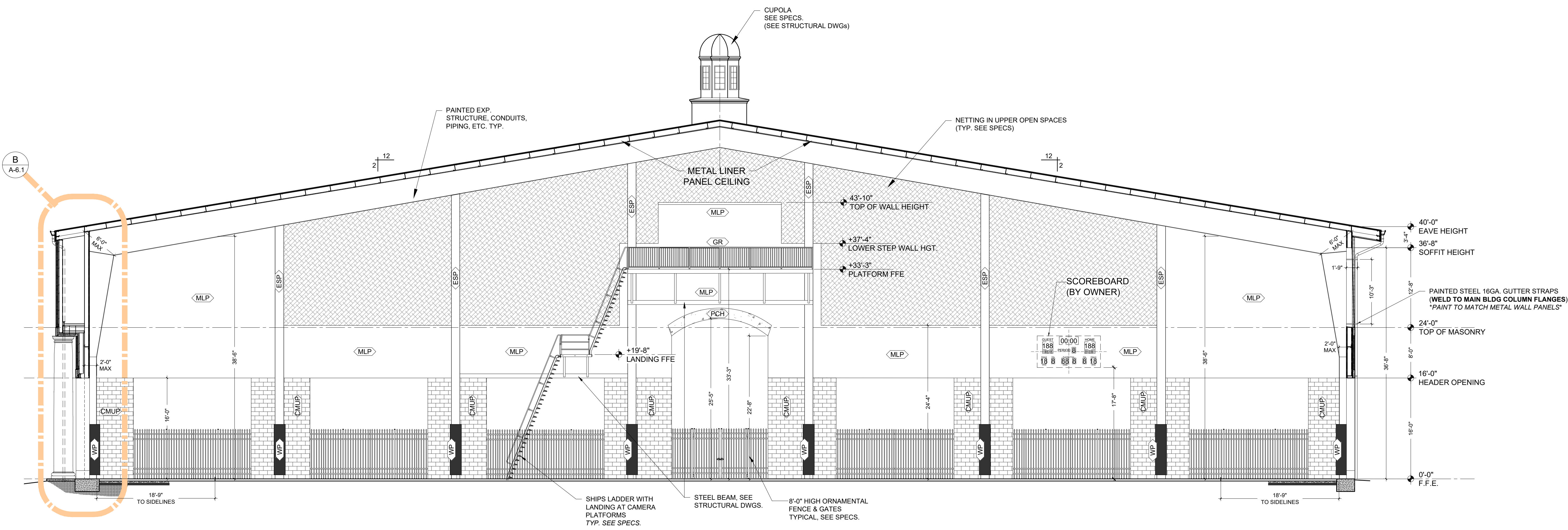
SHEET TITLE : EXTERIOR ELEVATIONS (ALTERNATE)
 MCKEE JOB # : 22.339
 DRAWN BY : LAB / DTC
 DATE : 10.24.24
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **A4.2**

BUILDING SECTION LEGEND	
SYMBOL	DESCRIPTION
CMUP	CONCRETE MASONRY UNIT - PAINT
MLP	METAL WALL LINER PANELS, SEE SPECS
MCP	METAL CEILING PANELS, SEE SPECS
GR	METAL GUARD RAIL - PAINT
WP	WALL PADS
ESP	EXPOSED STRUCTURE - PAINT



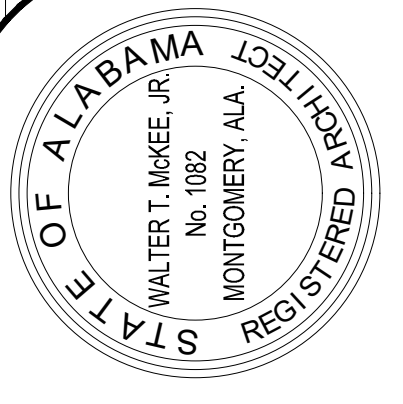
2 BUILDING SECTION
SCALE: 1/16" = 1'-0"



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

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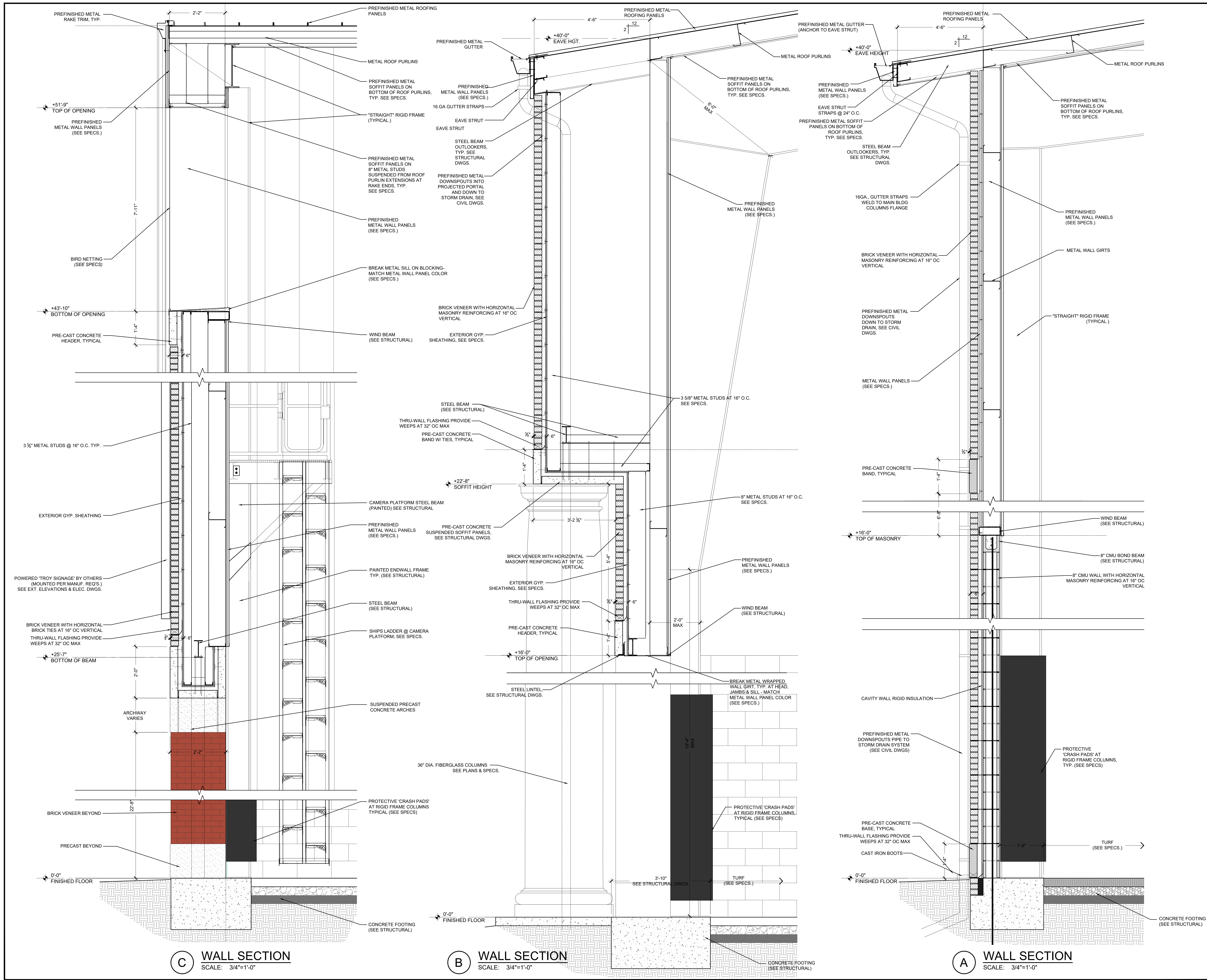
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SHEET TITLE : BUILDING SECTIONS
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : **A5.1**

- Z:\2022\22-339 Indoor Football Practice for Troy UICAD Drawings\Architectural\A6.1 Wall Sections.dwg
Thursday, October 24, 2024 3:25:30 PM



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

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

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

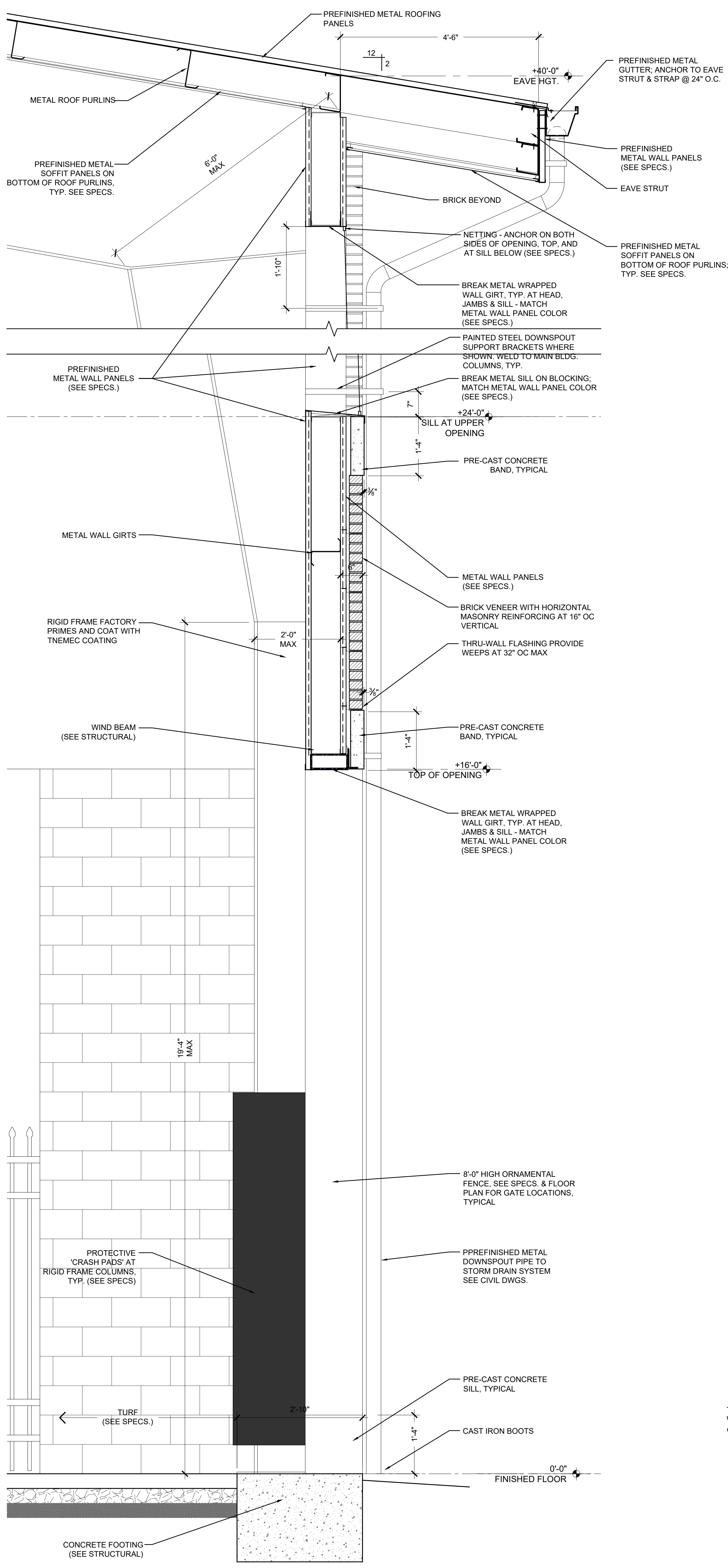
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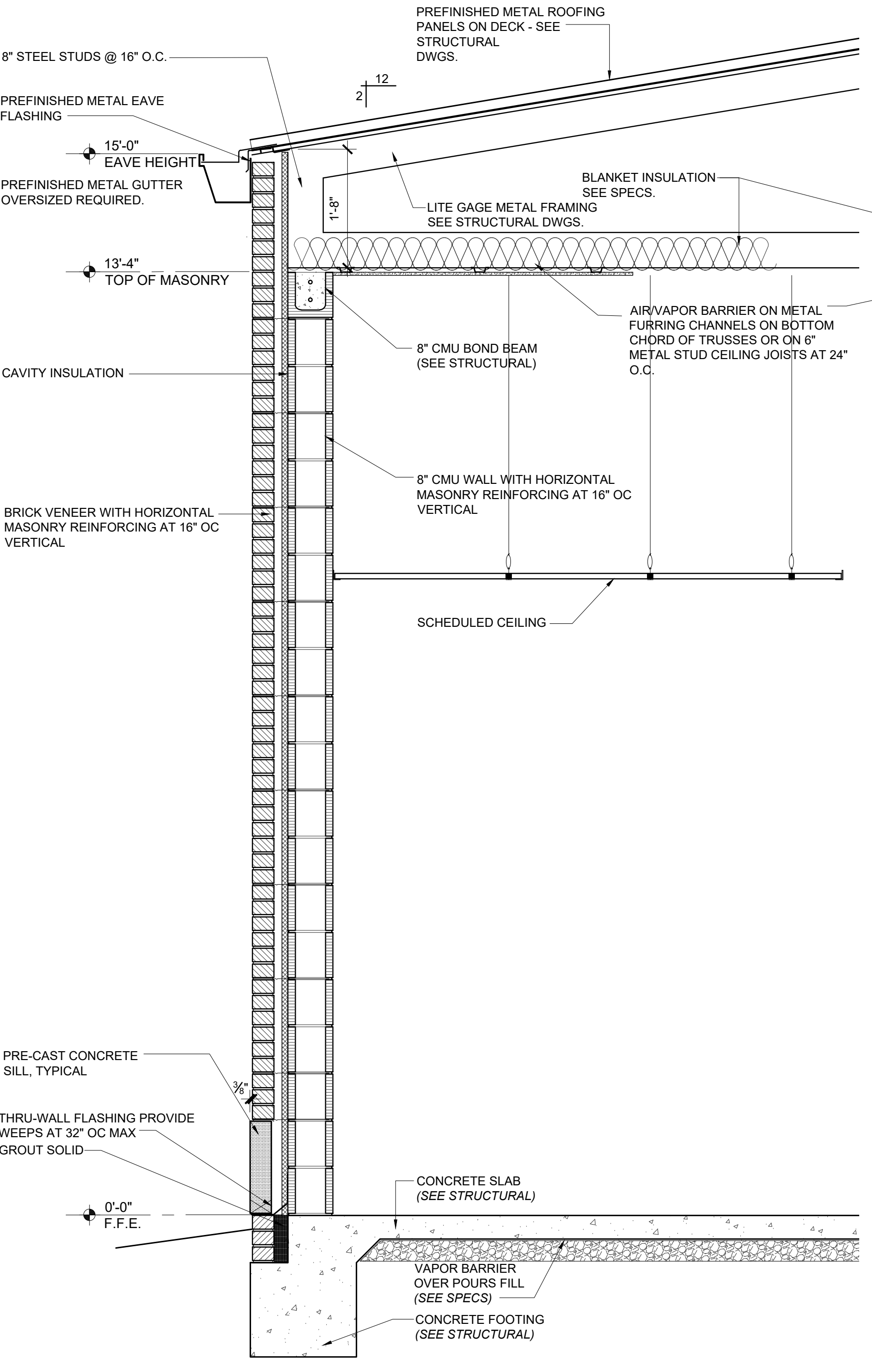


SHEET TITLE : WALL SECTIONS
MCKEE JOB # : 22.339
DRAWN BY : LAB / DTC
DATE : 10.24.24
REVISED DATE :
REVISED DATE :
REVISED DATE :

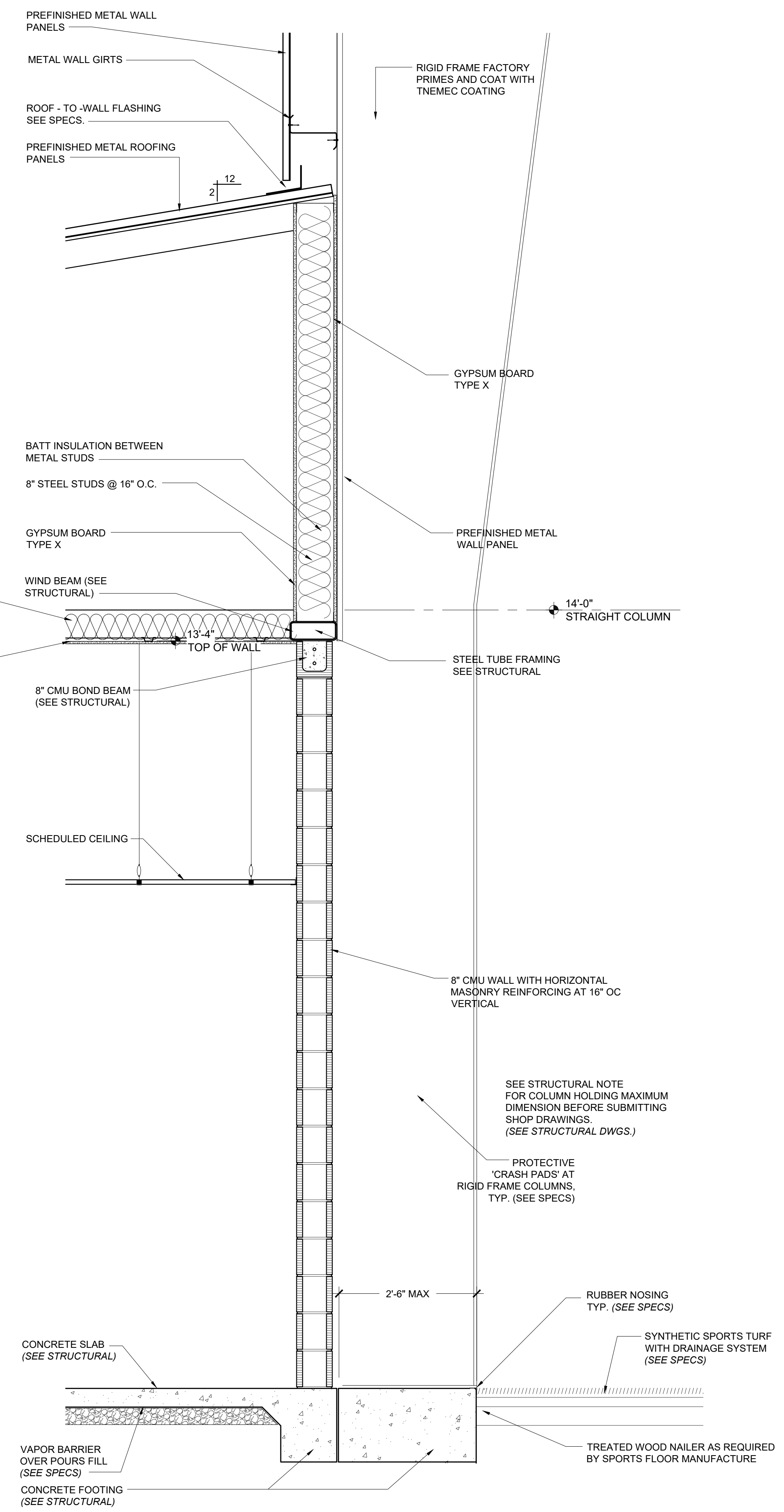
SHEET NO. : **A6.1**



(C) WALL SECTION
SCALE: 3/4"=1'-0"



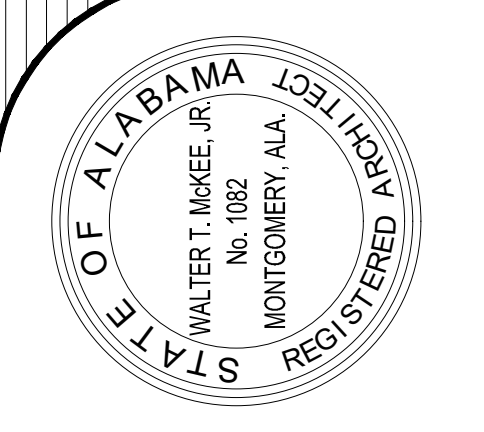
(B) WALL SECTION (ALTERNATE)
SCALE: 3/4"=1'-0"



(A) WALL SECTION (ALTERNATE)
SCALE: 3/4"=1'-0"

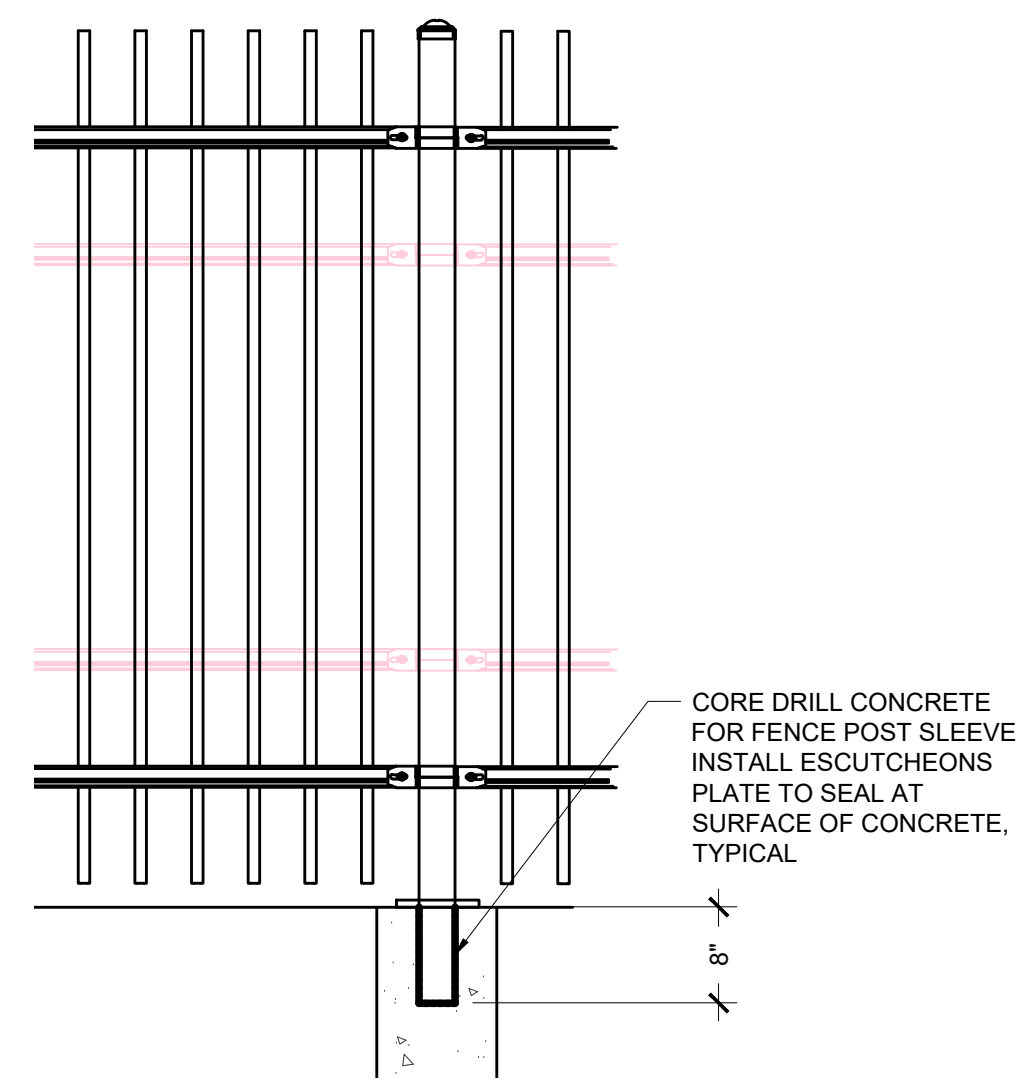
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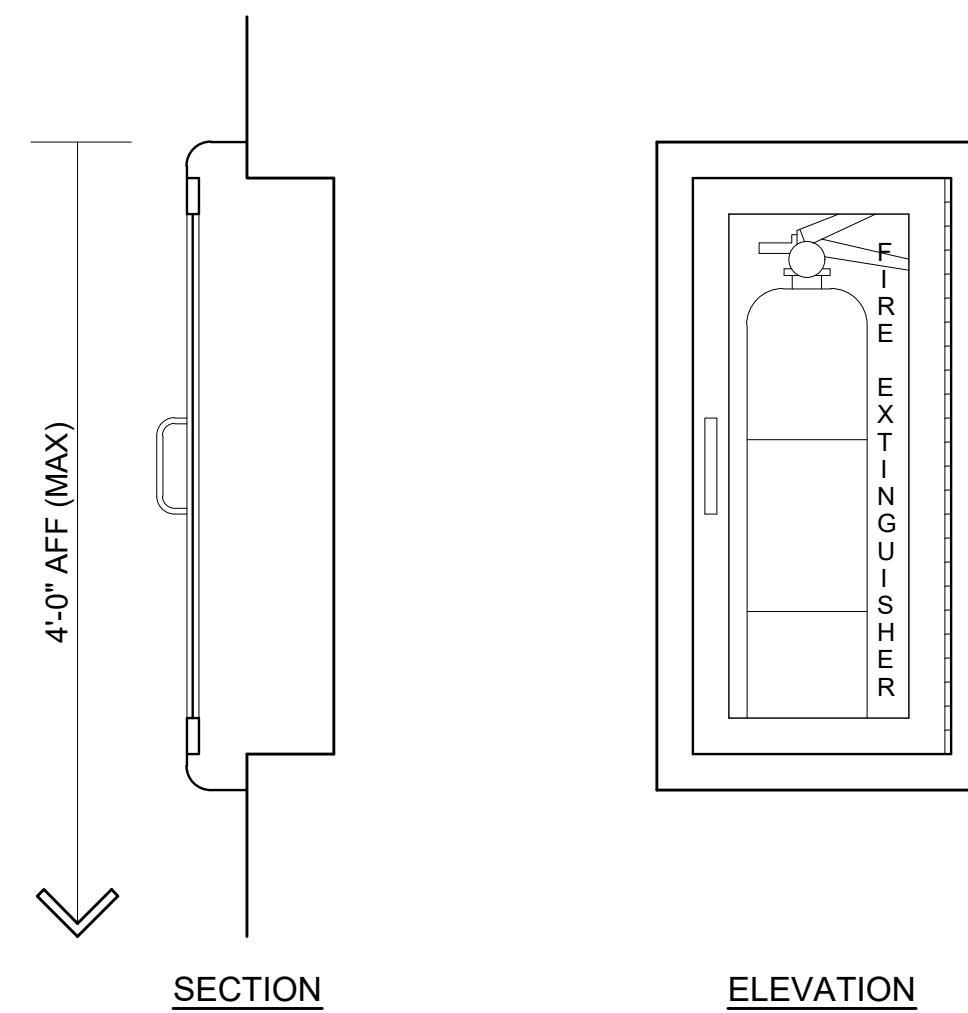


SHEET TITLE : WALL SECTIONS (ALTERNATE)
 MCKEE JOB # : 22.339
 DRAWN BY : LAB / DTC
 DATE : 10.24.24
 REVISED DATE :
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 REVISED DATE :

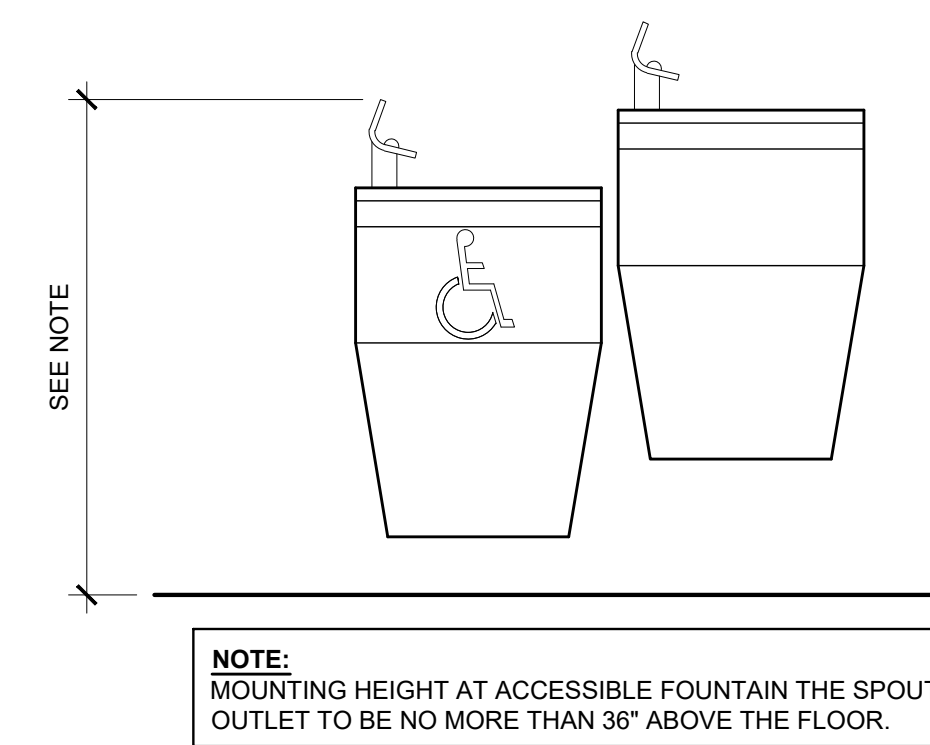
SHEET NO. : **A6.2**



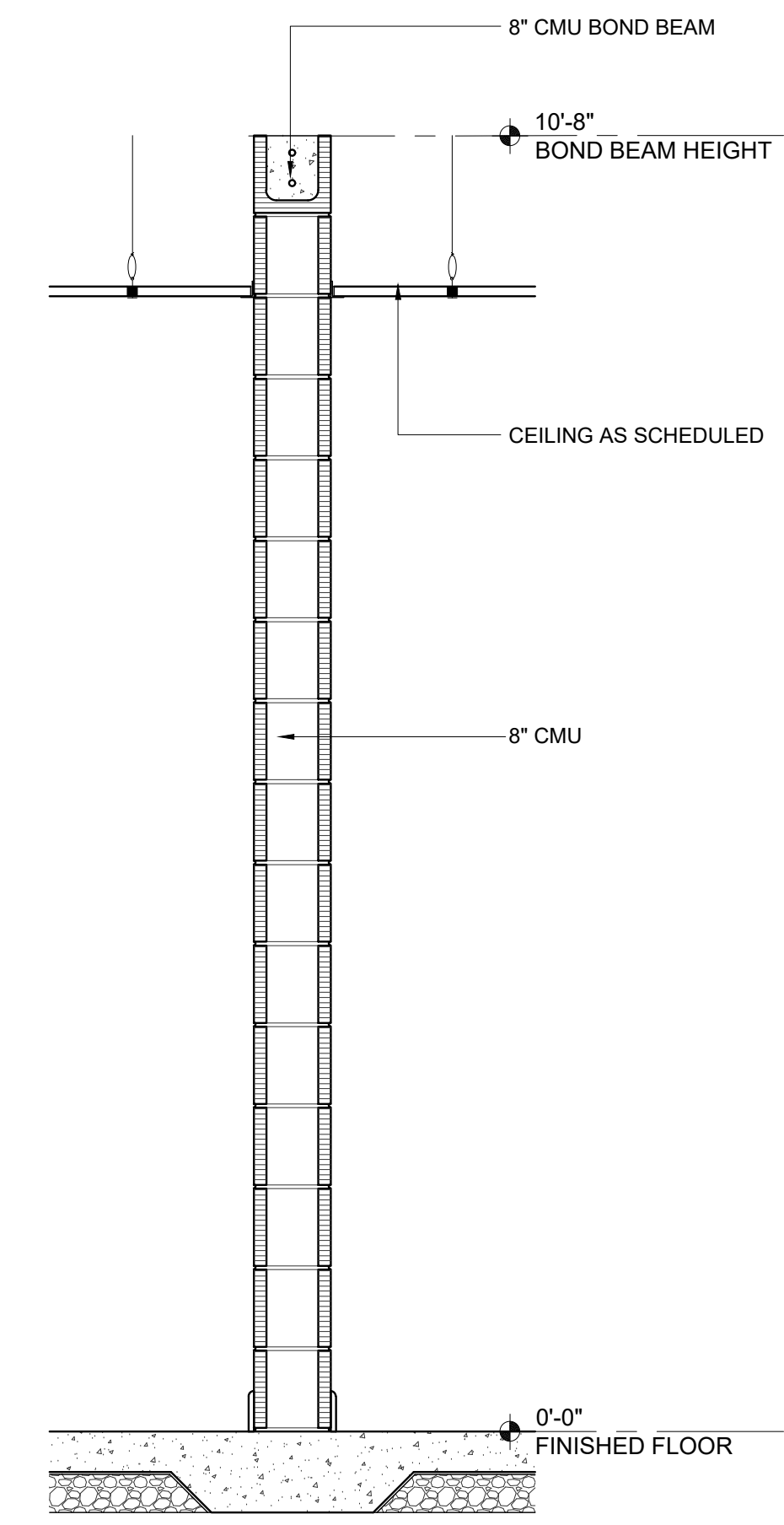
TYPICAL FENCE POST DETAIL
SCALE: NOT TO SCALE



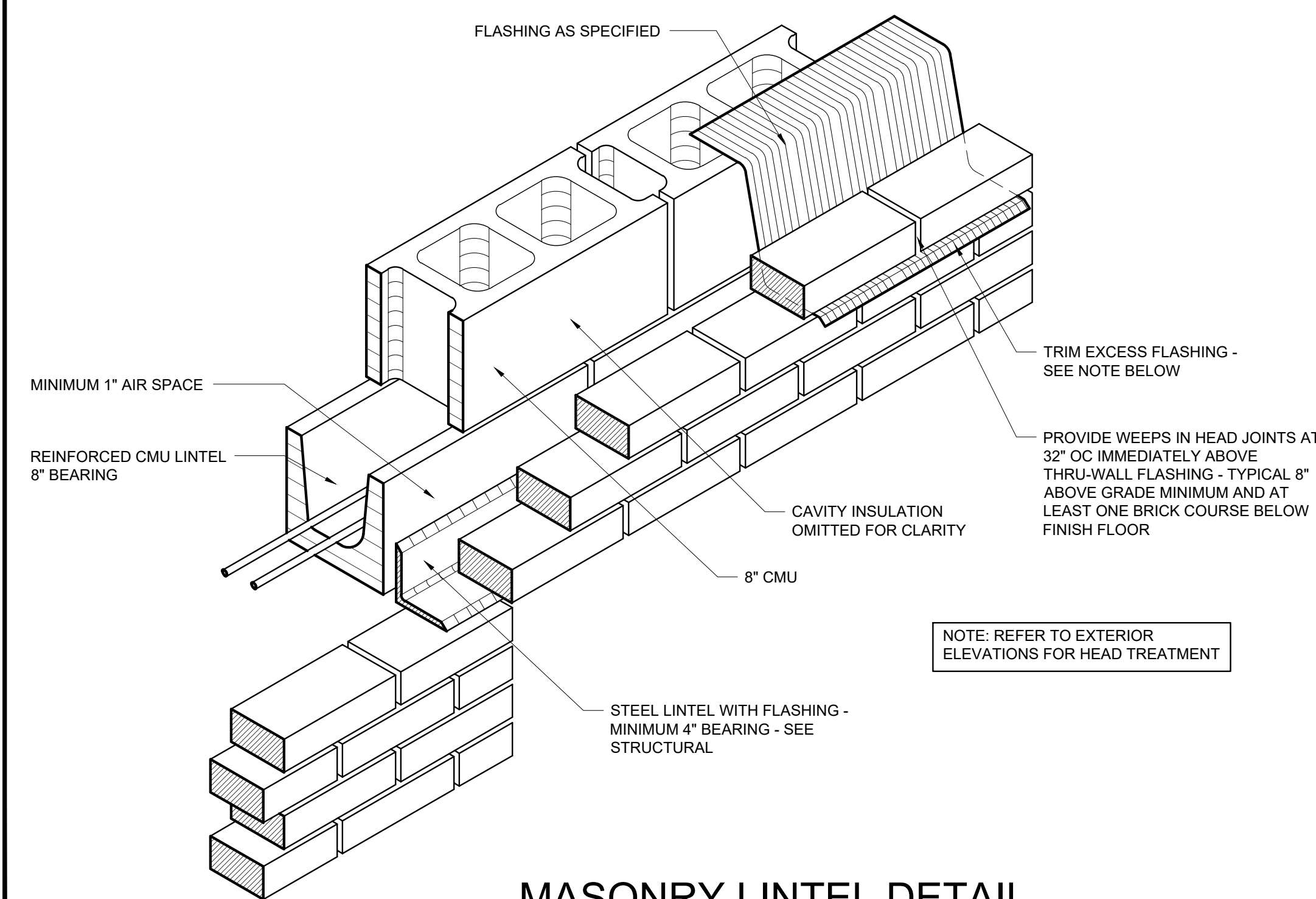
FIRE EXTINGUISHER CABINET (FEC)
SCALE: 1 1/2" - 1'-0"



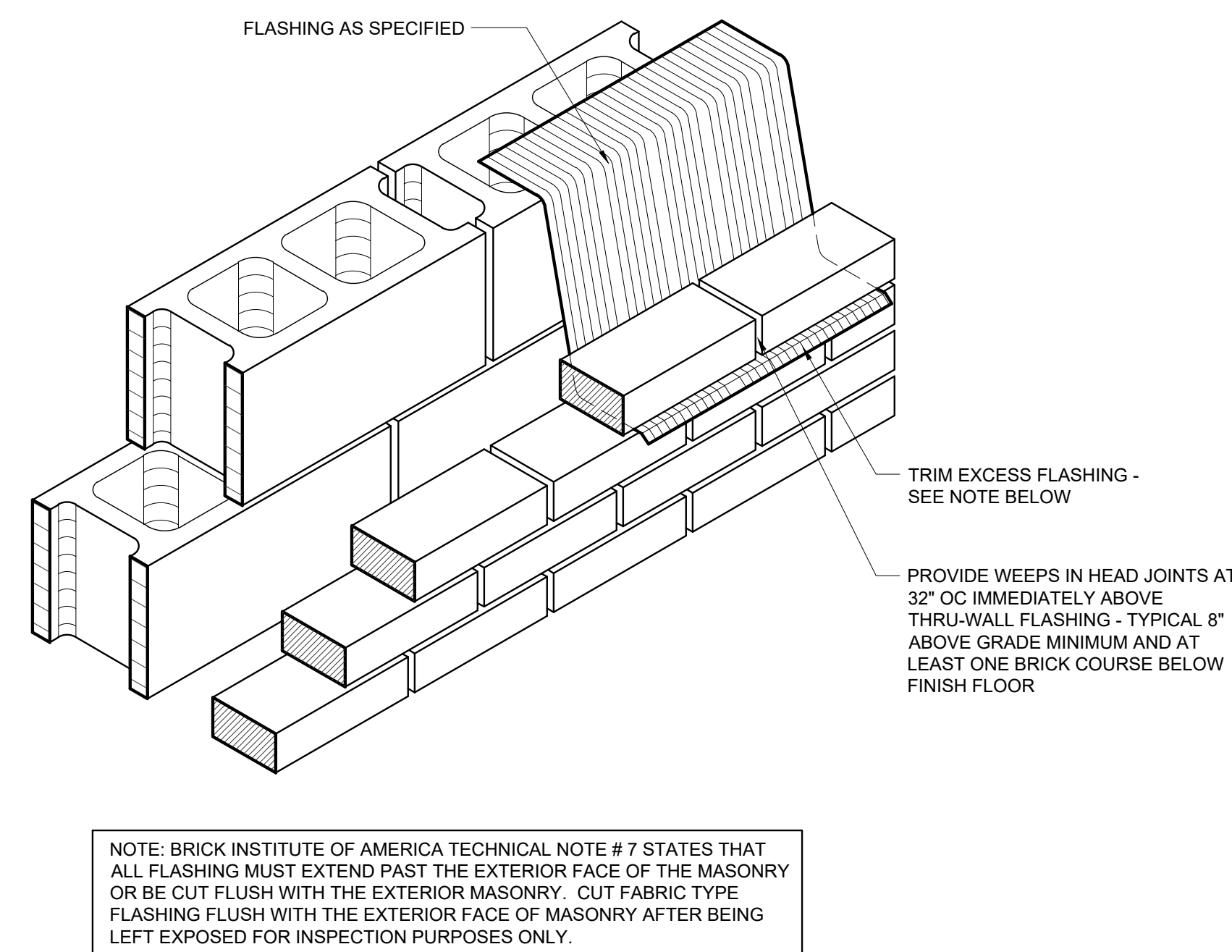
ELECTRIC WATER COOLER (EWC)
SCALE: 1 1/2" - 1'-0"



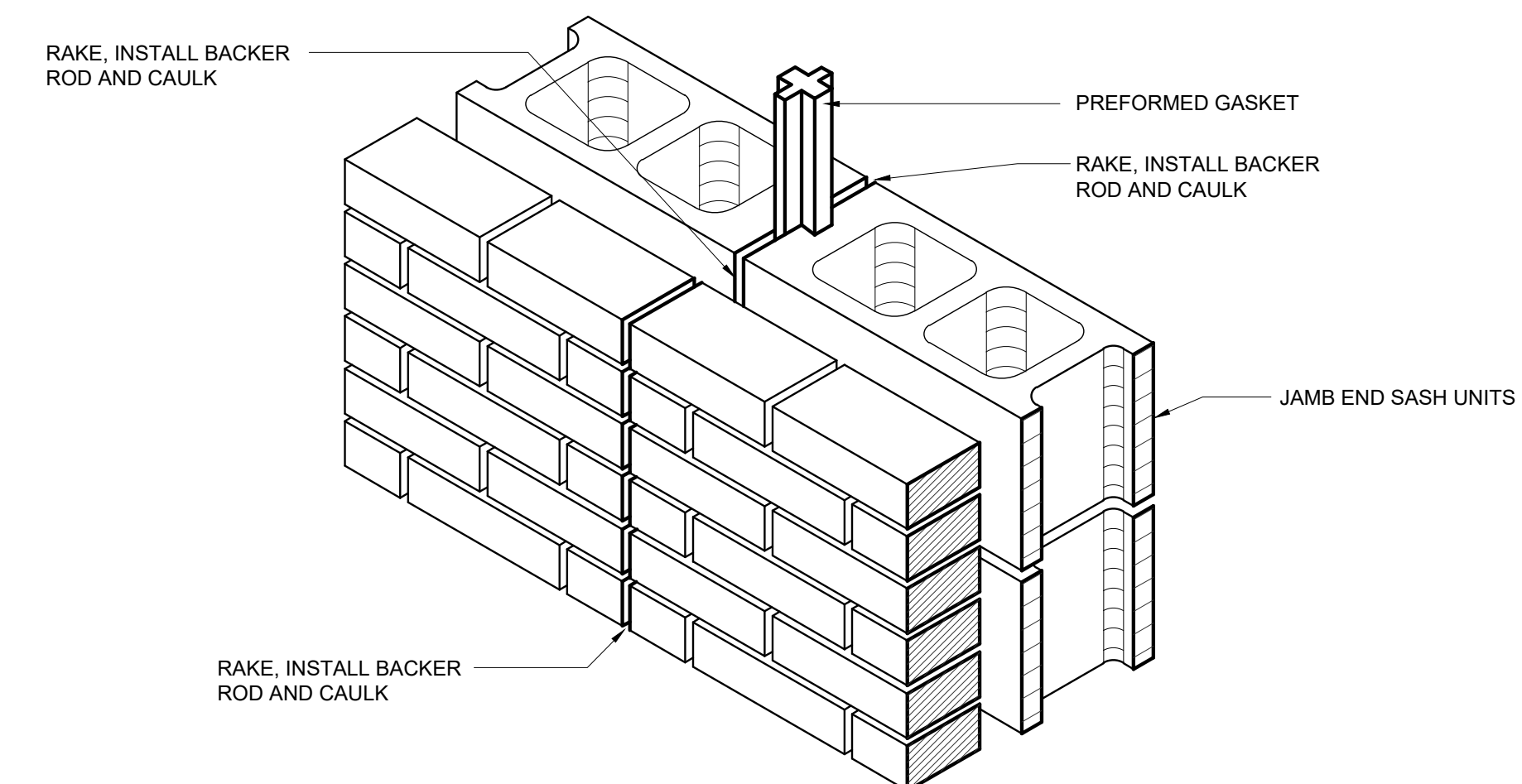
P1 PARTITION TYPES
SCALE: 3/4"=1'-0"



MASONRY LINTEL DETAIL
SCALE: 1 1/2" - 1'-0"



THRU-WALL FLASHING DETAIL
SCALE: 1 1/2" - 1'-0"



MASONRY CONTROL JOINT DETAIL (MCJ)
SCALE: 1 1/2" - 1'-0"

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SHEET TITLE : MISCELLANEOUS DETAILS

MCKEE JOB # : 22.339

DRAWN BY : LAB / DTC

DATE : 10.24.24

REVISED DATE :

REVISED DATE :

REVISED DATE :

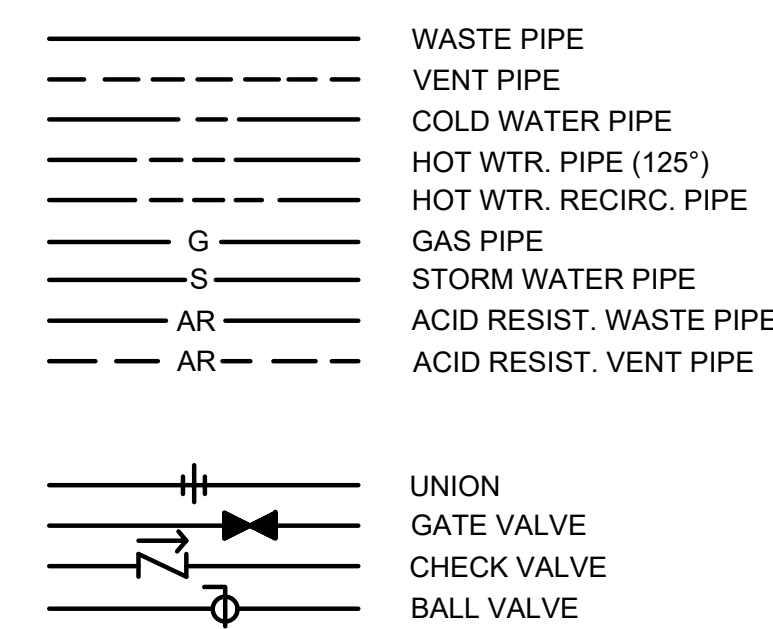
SHEET NO. : **A9.1**

PLUMBING FIXTURE SCHEDULE

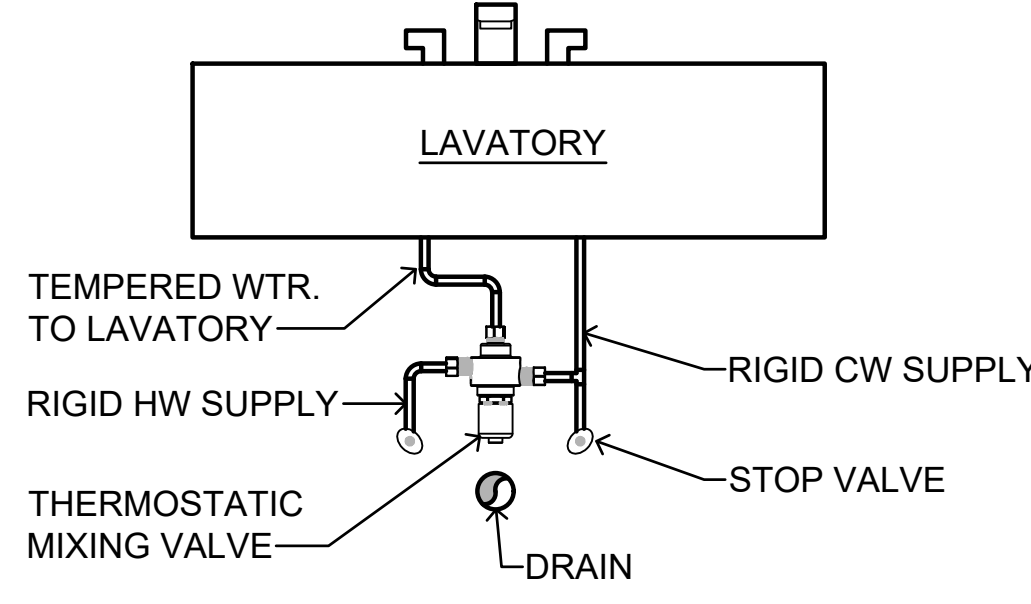
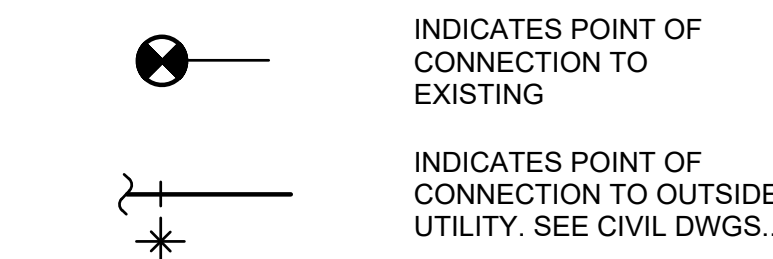
NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	WATER CLOSET	3"	1"	---	FL. MTD. - REG.
P2	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P3	URINAL	2"	3/4"	---	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P4	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P5	MOP BASIN	3"	1/2"	1/2"	FL. MTD. CORNER TYPE
P6	SPLIT LEVEL EWC	1 1/2"	1/2"	---	WALL HUNG - HIGH/LOW
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED

** PROVIDE A WATER TEMPERATURE LIMITING DEVICE (ASSE 1070 MIXING VALVE) WITH 1/2" TEMPERED WATER LINE TO FAUCET - SEE SPECS FOR REQUIREMENTS

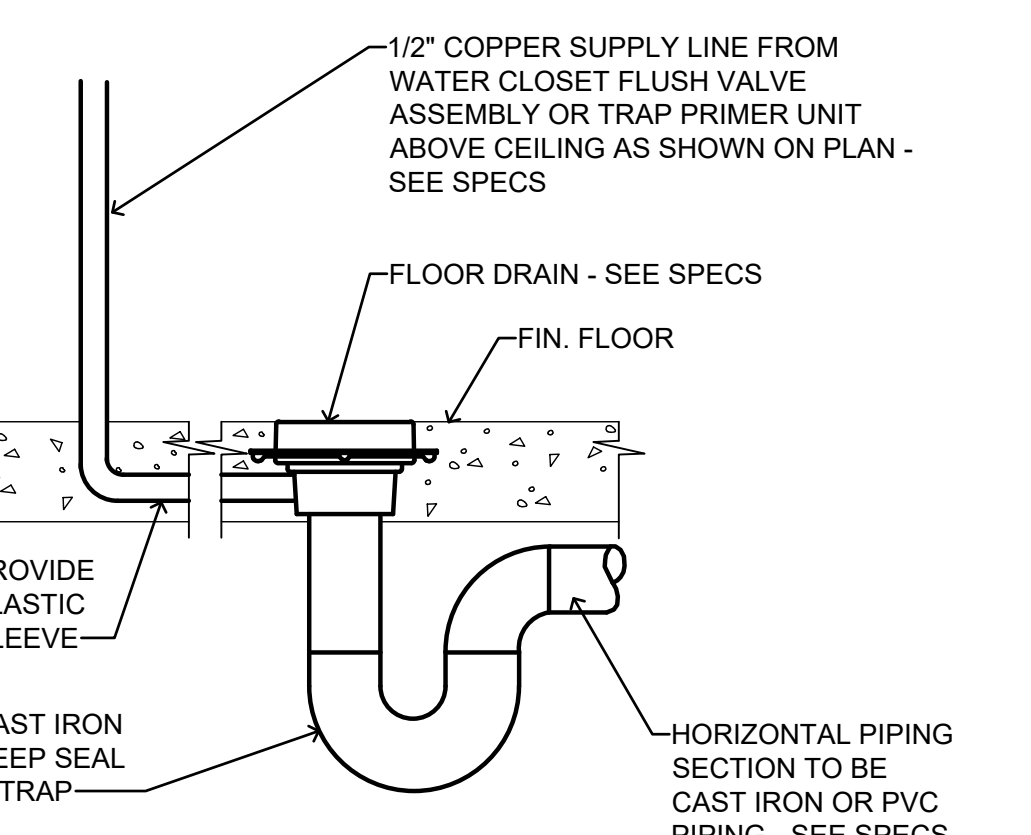
LEGEND



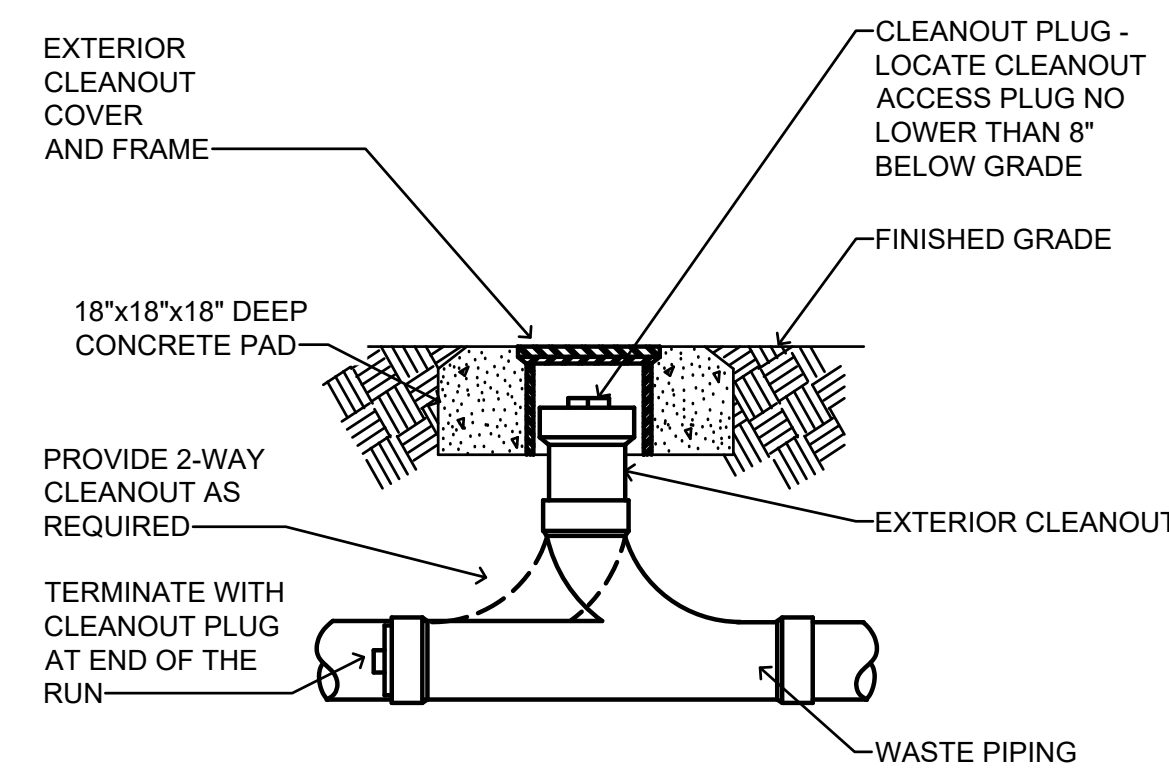
- B.V. BALL VALVE
- C.I. CAST IRON
- C.O. CLEANOUT
- D.S. DOWNSPOUT
- FCO FLOOR CLEANOUT
- F.D. FLOOR DRAIN
- M.F.D. MECH. FLOOR DRAIN
- K.F.D. KITCHEN FLOOR DRAIN
- F.S. FLOOR SINK
- G.V. GATE VALVE
- H.C. HANDICAPPED
- H.D. HUB DRAIN
- I.W.H. INTERIOR WALL HYDRANT
- W.H. WALL HYDRANT
- R.D. ROOF DRAIN
- T.P. TRAP PRIMER
- V. VENT
- V.S. VENT STACK
- V.T.R. VENT THRU ROOF
- V.S.T.R. VENT STACK THRU ROOF
- V.S.T.W. VENT STACK THRU WALL
- W.B.V. WASTE AND VENT



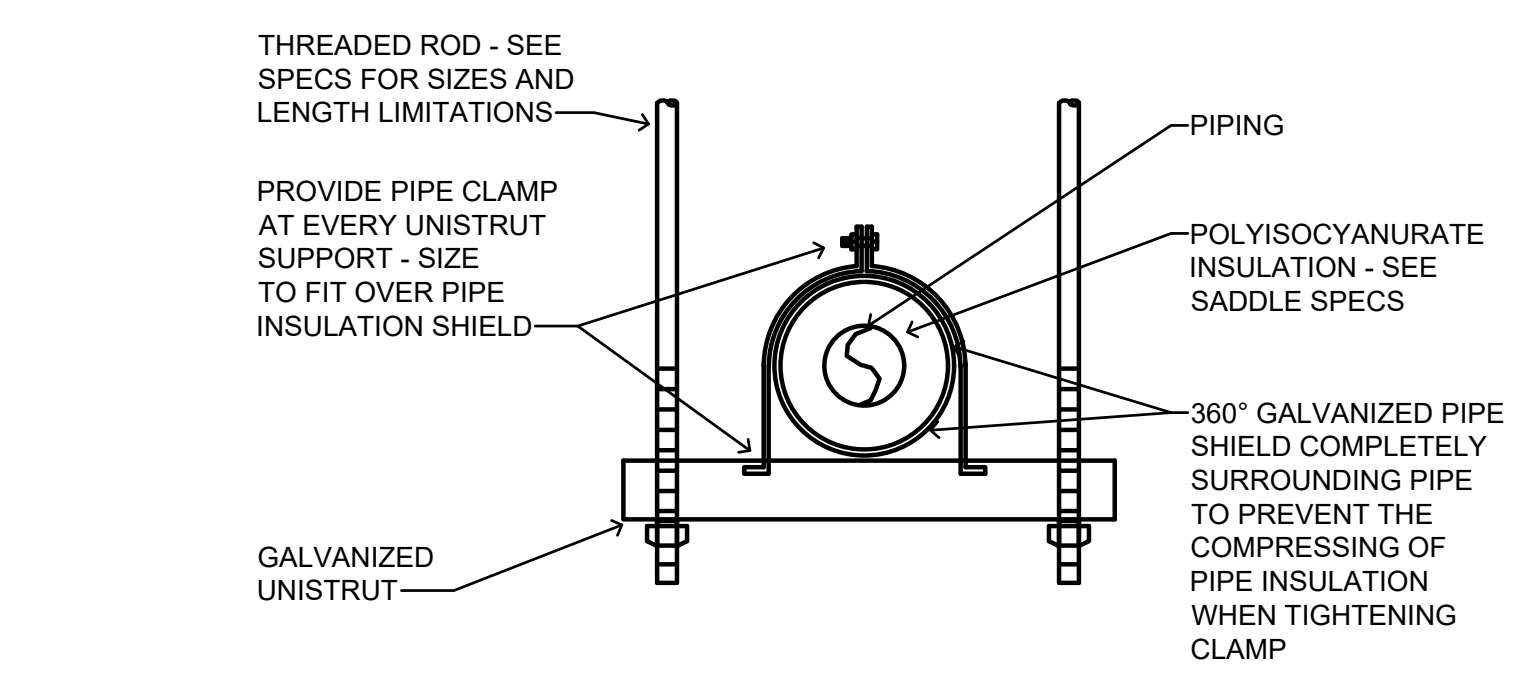
DETAIL OF TMV BELOW LAVATORY
NO SCALE



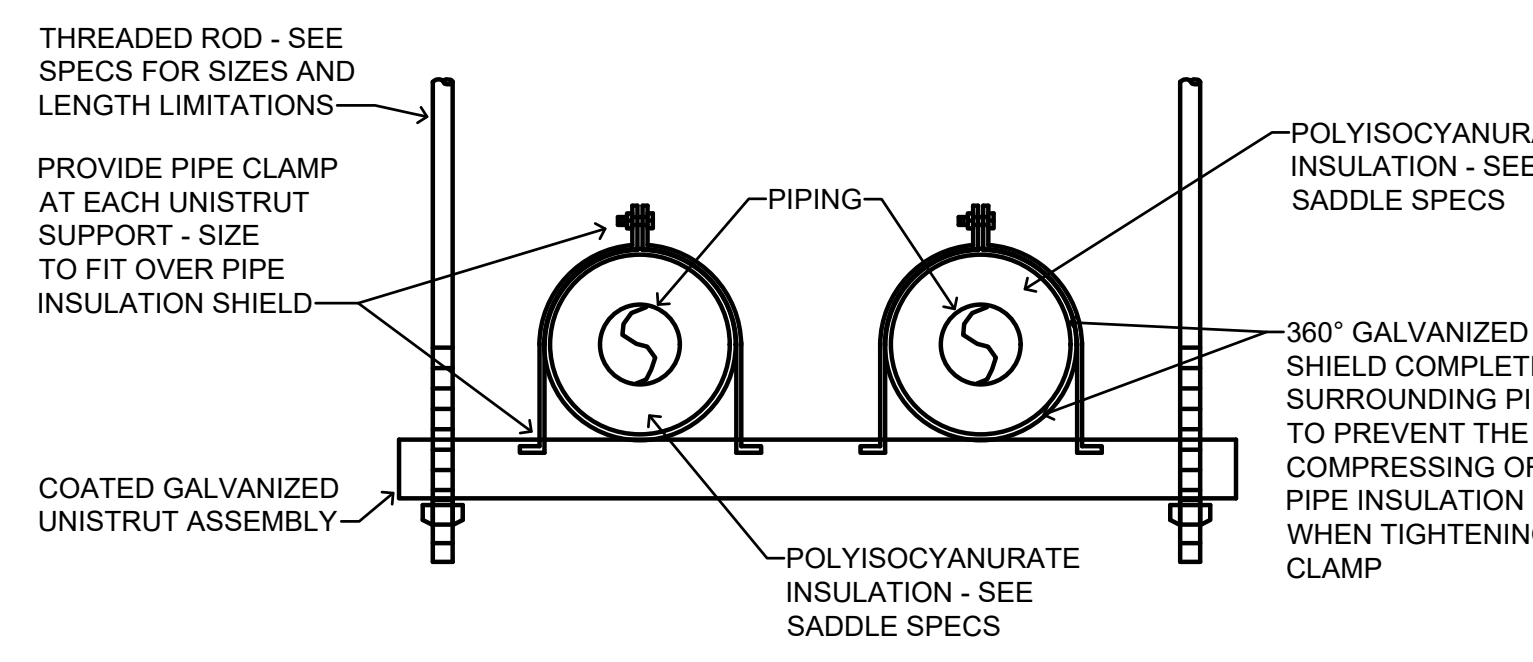
FLOOR DRAIN/TRAP PRIMER DETAIL
NO SCALE



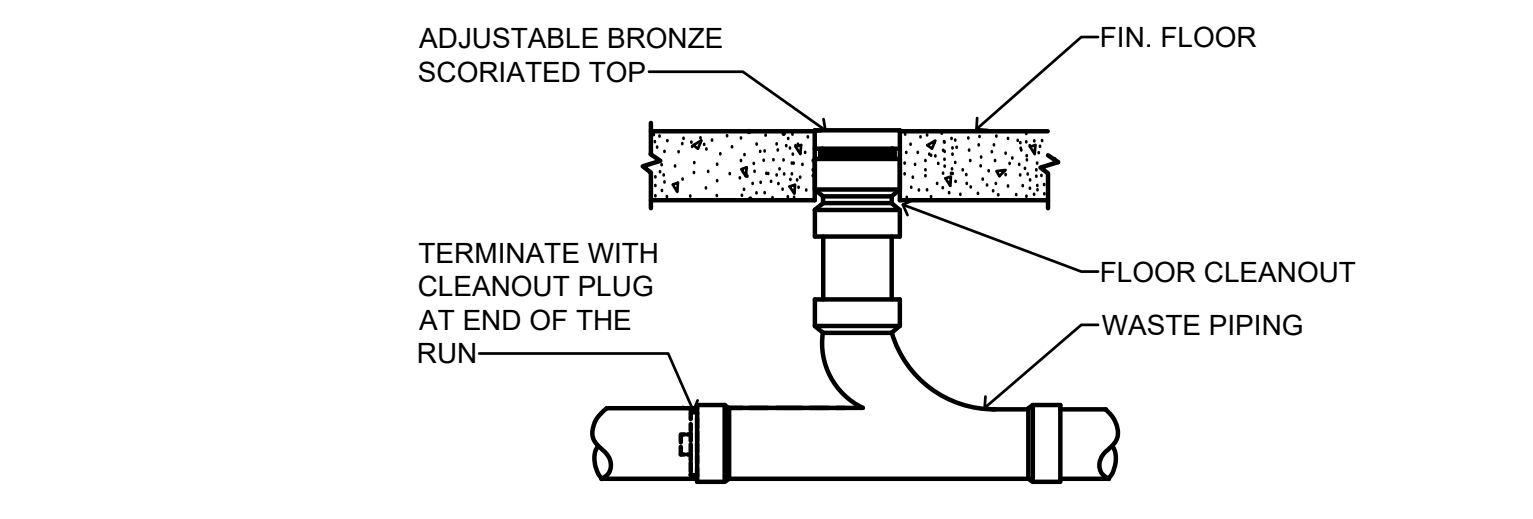
TYP. EXTERIOR CLEANOUT DETAIL
NO SCALE



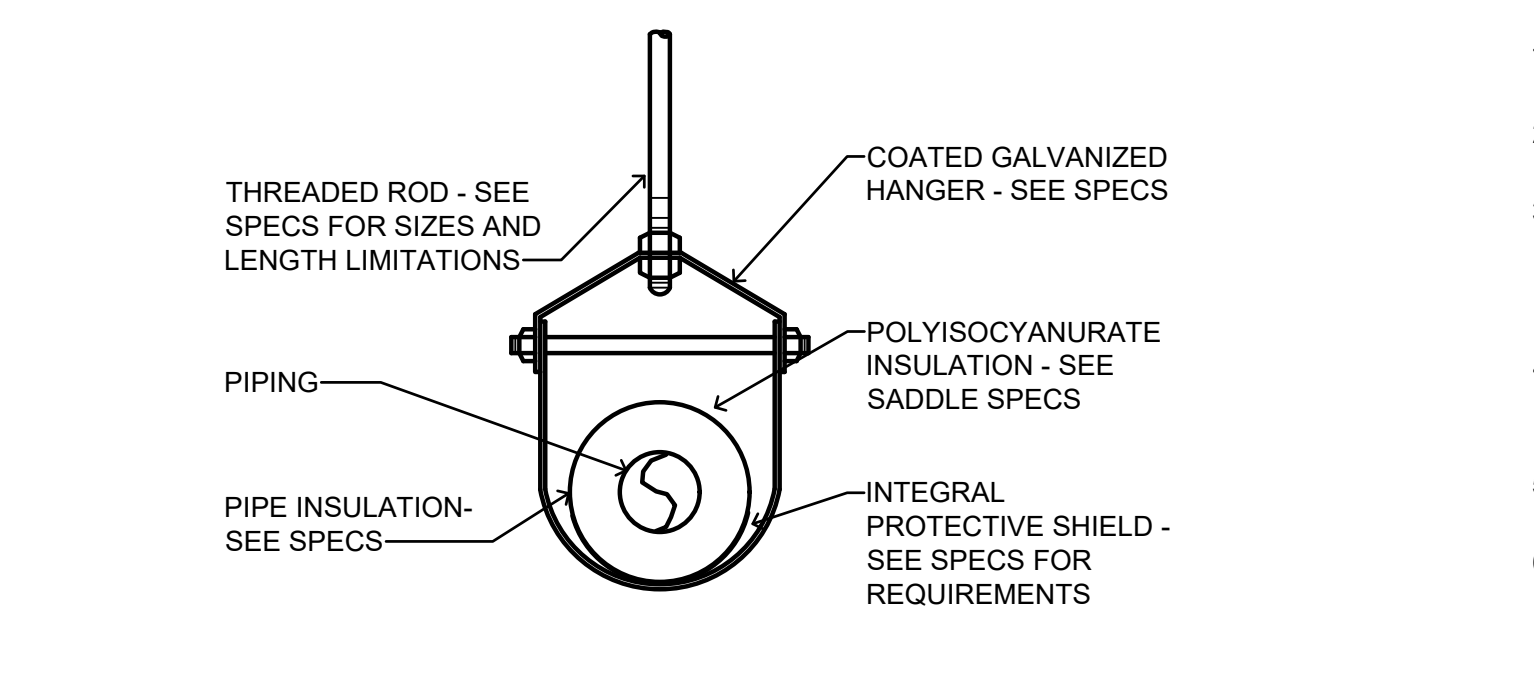
TYPICAL UNISTRUT HANGER DETAIL
NO SCALE



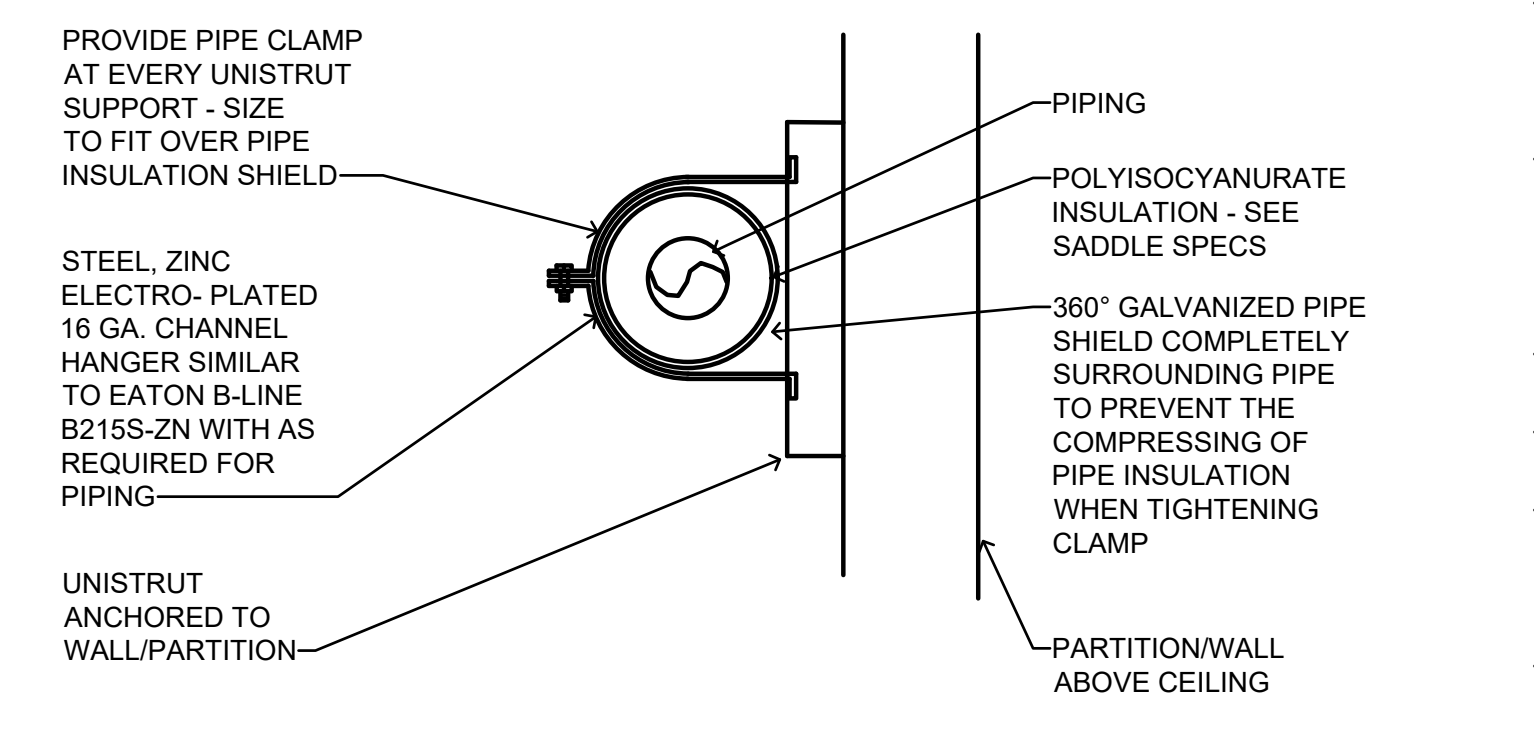
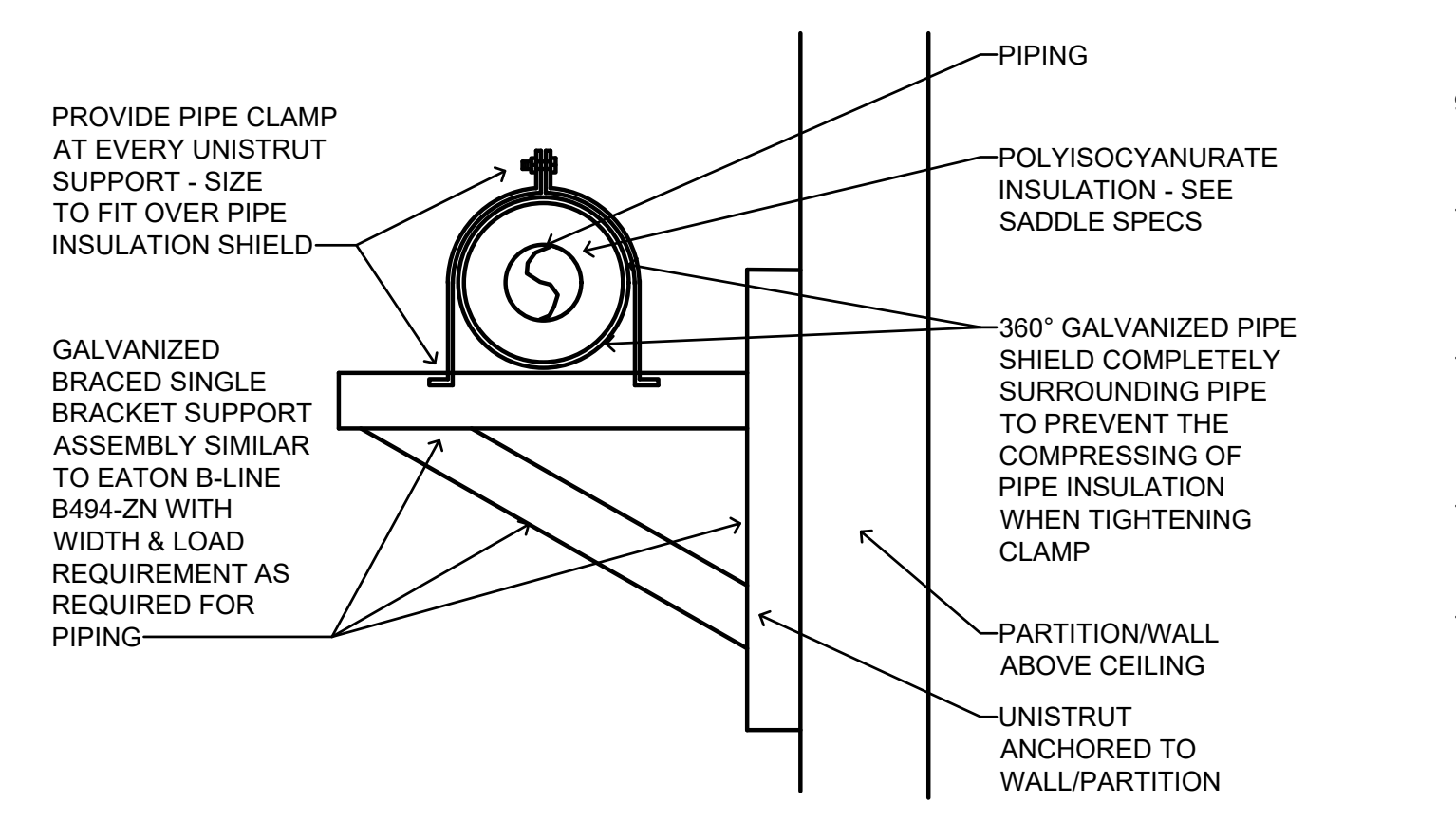
TYPICAL MULTIPLE PIPES HANGER DETAIL
NO SCALE



TYP. INTERIOR FLOOR CLEANOUT DETAIL
NO SCALE

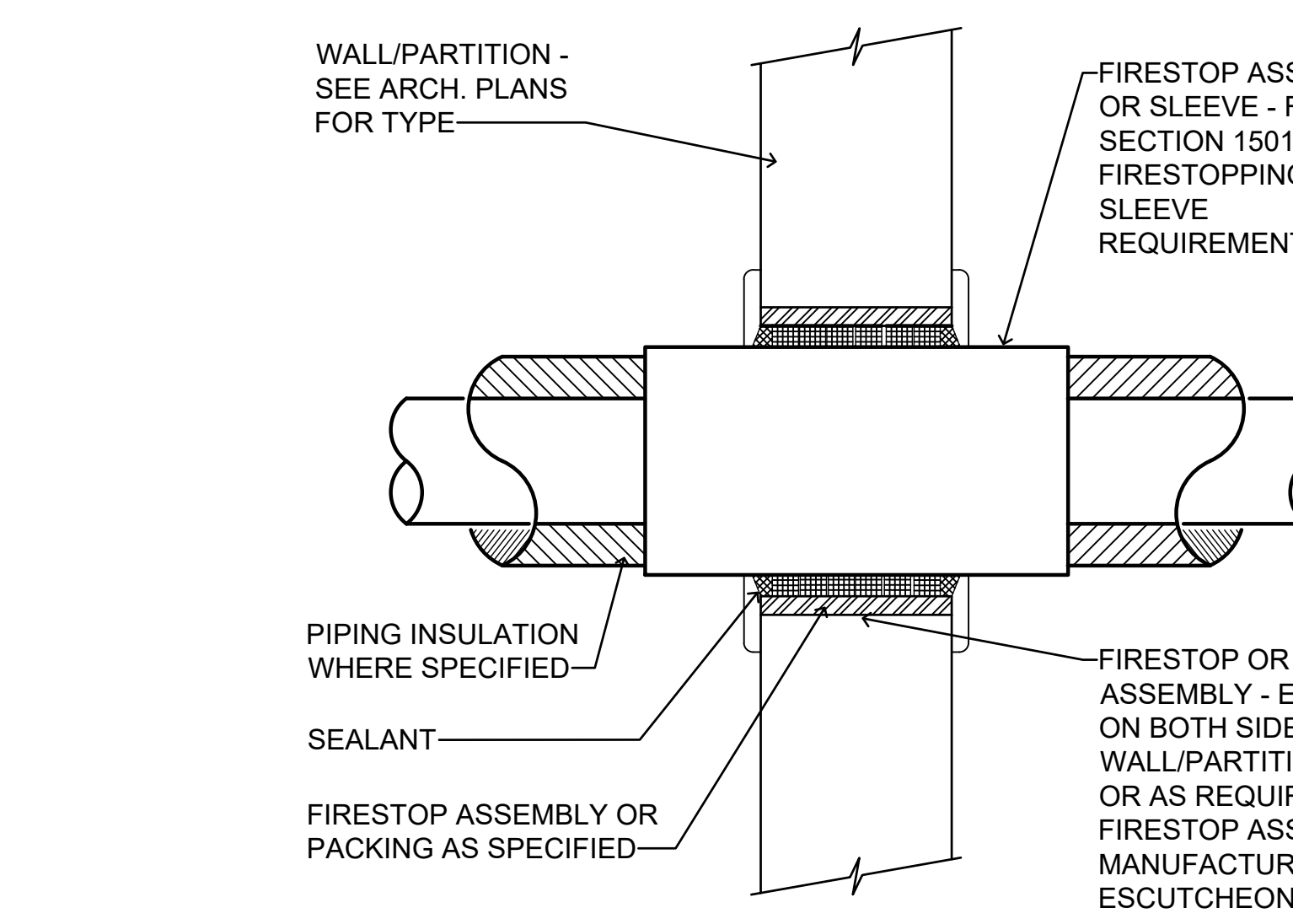


TYPICAL PIPE HANGER DETAIL
NO SCALE



TYPICAL HORIZONTAL/VERTICAL UNISTRUT PIPING SUPPORT DETAIL AT ABOVE CEILING PARTITION

- NOTES:
- MULTIPLE PIPES SIMILAR.
 - SUPPORT SPACING SHALL BE AS SPECIFIED FOR UNISTRUT ASSEMBLIES.
 - MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.
 - TYPICAL UNISTRUT AND HANGER DETAILS INDICATED ARE PREFERRED. THIS DETAIL IS REQUIRED FOR PIPING SUPPORTS WHEN HANGER RODS EXCEED 36" TO STRUCTURE ABOVE CEILING. COORDINATE UNISTRUT ATTACHMENTS/ANCHORS TO WALL WITH ARCHITECT'S SPECIFICATIONS FOR TYPE OF WALL INSTALLED AND PROVIDE ANCHORS/ATTACHMENTS AS REQUIRED.



INTERIOR WALL PIPING PENETRATION DETAIL
NOT TO SCALE

- NOTES:
- SEE SPEC SECTION 15010 FOR FIRESTOP AND SLEEVE REQUIREMENTS
 - DETAIL APPLIES TO ALL WATER, WASTE AND VENT PIPING.
 - ONLY ONE PIPE PER ASSEMBLY ALLOWED.
 - WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING OF THE FIRESTOP ASSEMBLY 1" ON EACH SIDE OF THE PARTITION. DO NOT USE SPLIT TYPE ESCUTCHEONS NOR SPLIT TYPE SLEEVES.

GENERAL PLUMBING NOTES

- ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
- ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- FLUSH VALVE HANDLE FOR ALL ADA MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
- PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN WITH TRAP PRIMER AS SPECIFIED.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN MASONRY AND NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE. ALL OVERHEAD PIPING SHALL BE LOCATED BETWEEN THE ARCHITECTURAL AIR BARRIER AT THE BOTTOM OF THE TRUSSES AND THE FINISHED CEILING. DO NOT ROUTE OVERHEAD PIPING IN THE ATTIC WHEN IT CAN BE LOCATED BETWEEN THE AIR BARRIER AND THE FINISHED CEILING.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED AT NON-MASONRY EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR (WARM) SIDE OF THE BUILDING EXTERIOR WALL INSULATION.
- ALL WATER PIPING IN MASONRY EXTERIOR WALLS SHALL BE LOCATED WITHIN THE MASONRY WALLS AND INSULATED AS SPECIFIED.
- COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
- ALL PIPING AND FITTINGS ROUTED THROUGH RETURN AIR PLENUMS & RETURN AIR PLATFORMS, OR WITHIN FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" HORIZONTALLY FROM ALL ROOF MOUNTED HVAC OUTSIDE AIR INTAKES.
- PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. CLEANOUTS SHALL BE HIGH ENOUGH TO CLEAR THE TILE BASE WITHOUT CUTTING OF THE BASE AND SHALL BE LOCATED WITHIN THE SPECIFIED PIPING ENCLOSURE FOR ALL WALL MOUNTED LAVATORIES AND WALL MOUNTED HAND SINKS WHEN POSSIBLE.
- LOCATE CLEANOUTS TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS. PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
- WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
- PROVIDE A BALL VALVE ON ONE SIDE OF EVERY DIELECTRIC UNION AS REQUIRED TO FACILITATE ITS REMOVAL.
- TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
- ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON, TERMINATED TO 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
- ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS, TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.
- IPC 704.1 REQUIRES ALL DRAINAGE PIPING UPSTREAM OF A GREASE INTERCEPTOR TO BE SLOPED AT 1/4" PER FOOT (2% SLOPE).
- EXTREME CARE SHALL BE TAKEN WHEN ROUGHING IN CLEANOUTS AT EACH WALL MOUNTED LAVATORY AND HAND SINK. CLEANOUTS SHALL BE LOCATED WITHIN THE SPECIFIED LAV SHIELD PIPING COVER WHENEVER POSSIBLE.
- ALL CLEANOUTS SHALL BE ROUGHED IN HIGH ENOUGH TO CLEAR THE ARCHITECTURAL BASE MOLDING WITHOUT CUTTING THE BASE MOLDING.

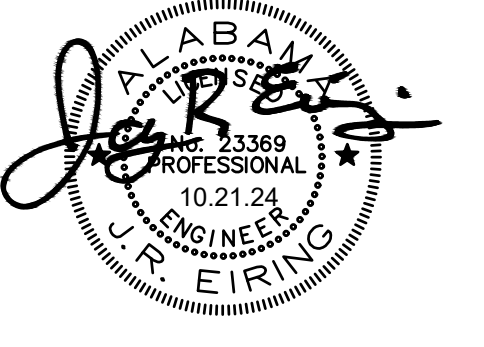
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MCKEE and ASSOCIATES ARCHITECTS, INC.

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SHEET TITLE : PLBG. SCHEDULES, DETAILS AND NOTES

MCKEE JOB # : 22.339

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 10.21.2024

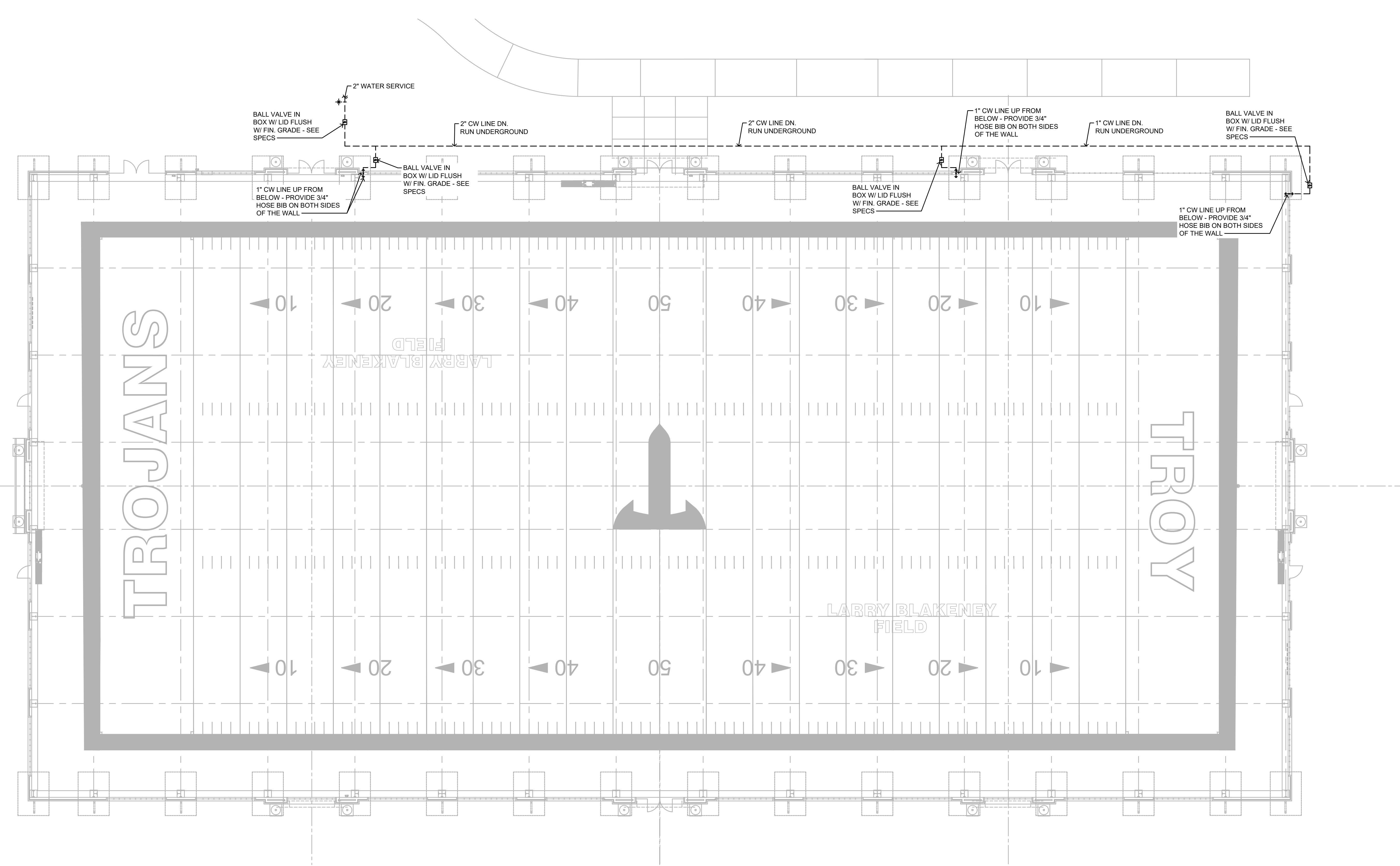
REVISED DATE :

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REVISED DATE :

SHEET NO. : P1





SHOWING WATER PIPING
**OVERALL PLBG.
 FLOOR PLAN - BASE BID**
 SCALE: 1/16" = 1'-0"

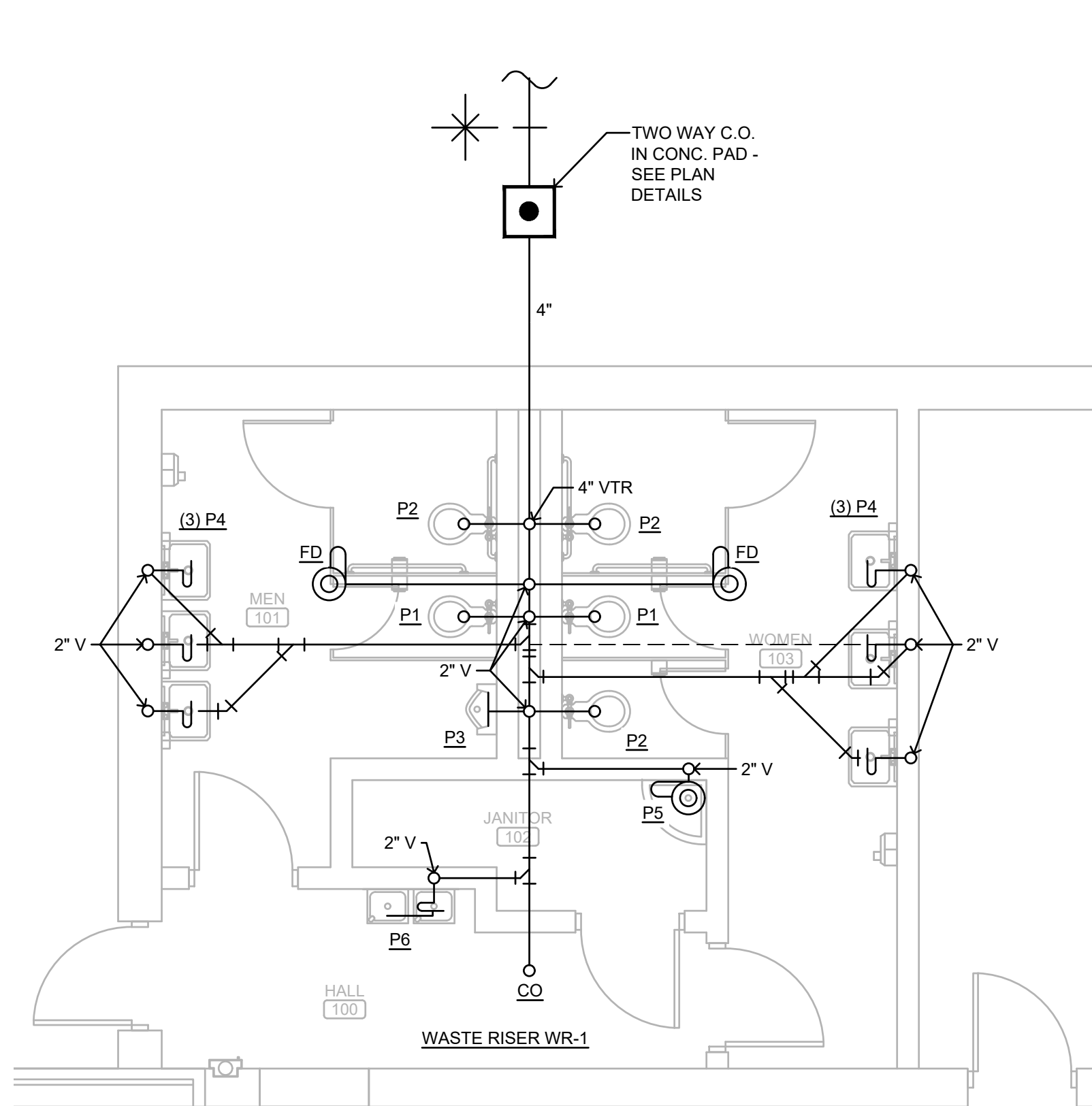
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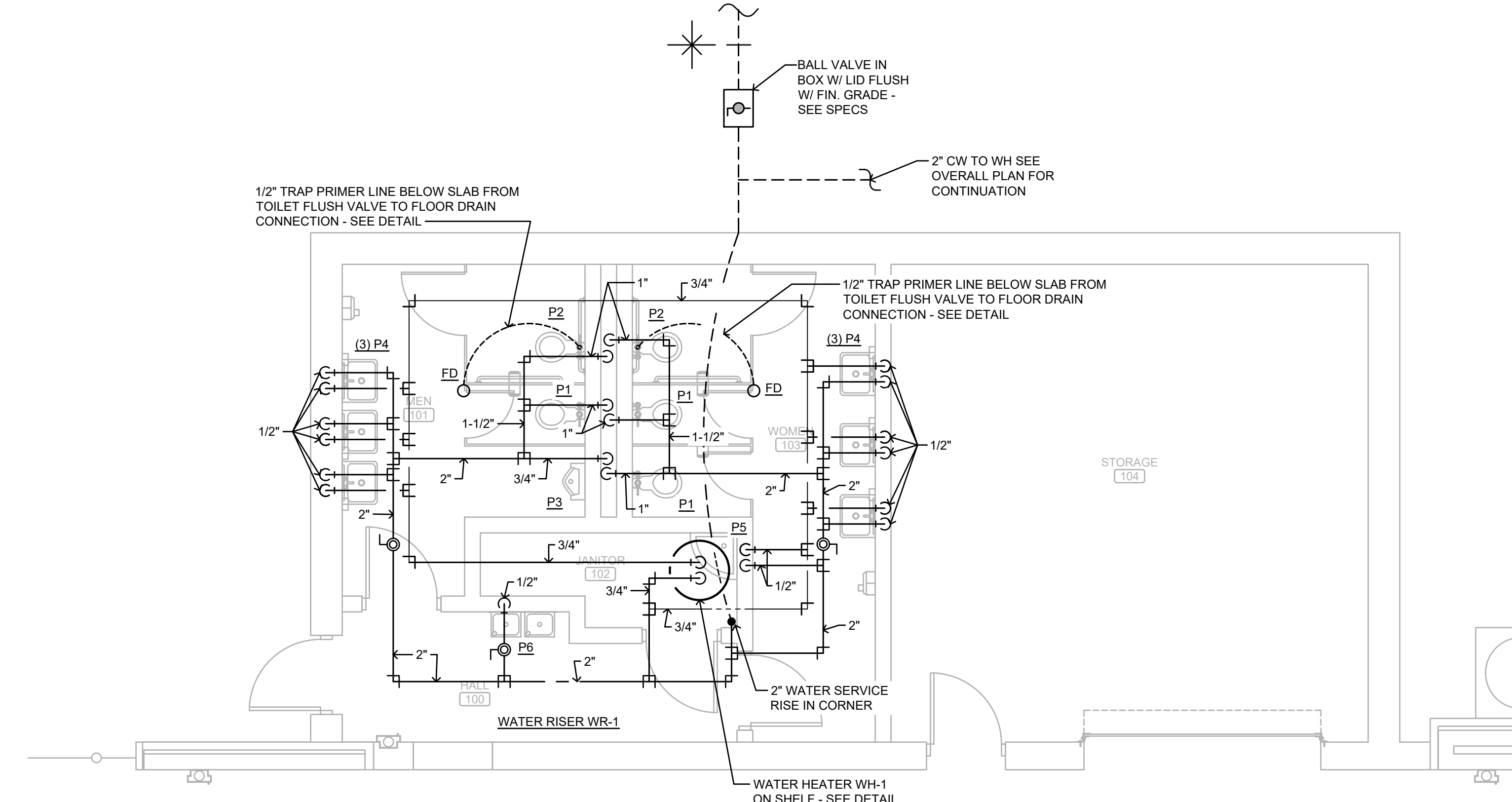
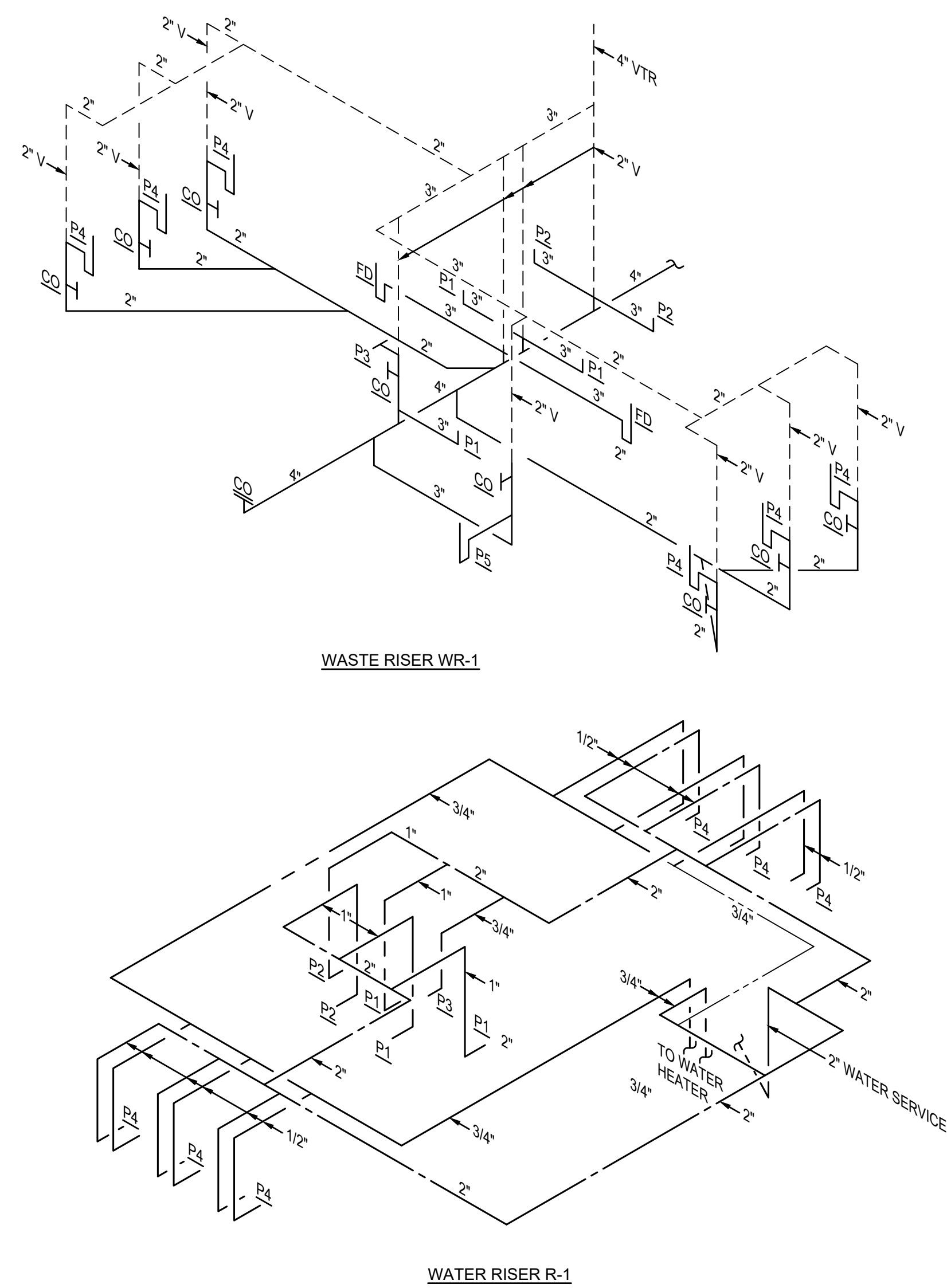


SHEET TITLE : OVERALL PLBG. FLOOR PLAN - BASE BID
 MCKEE JOB # : 22.339
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 10.21.2024
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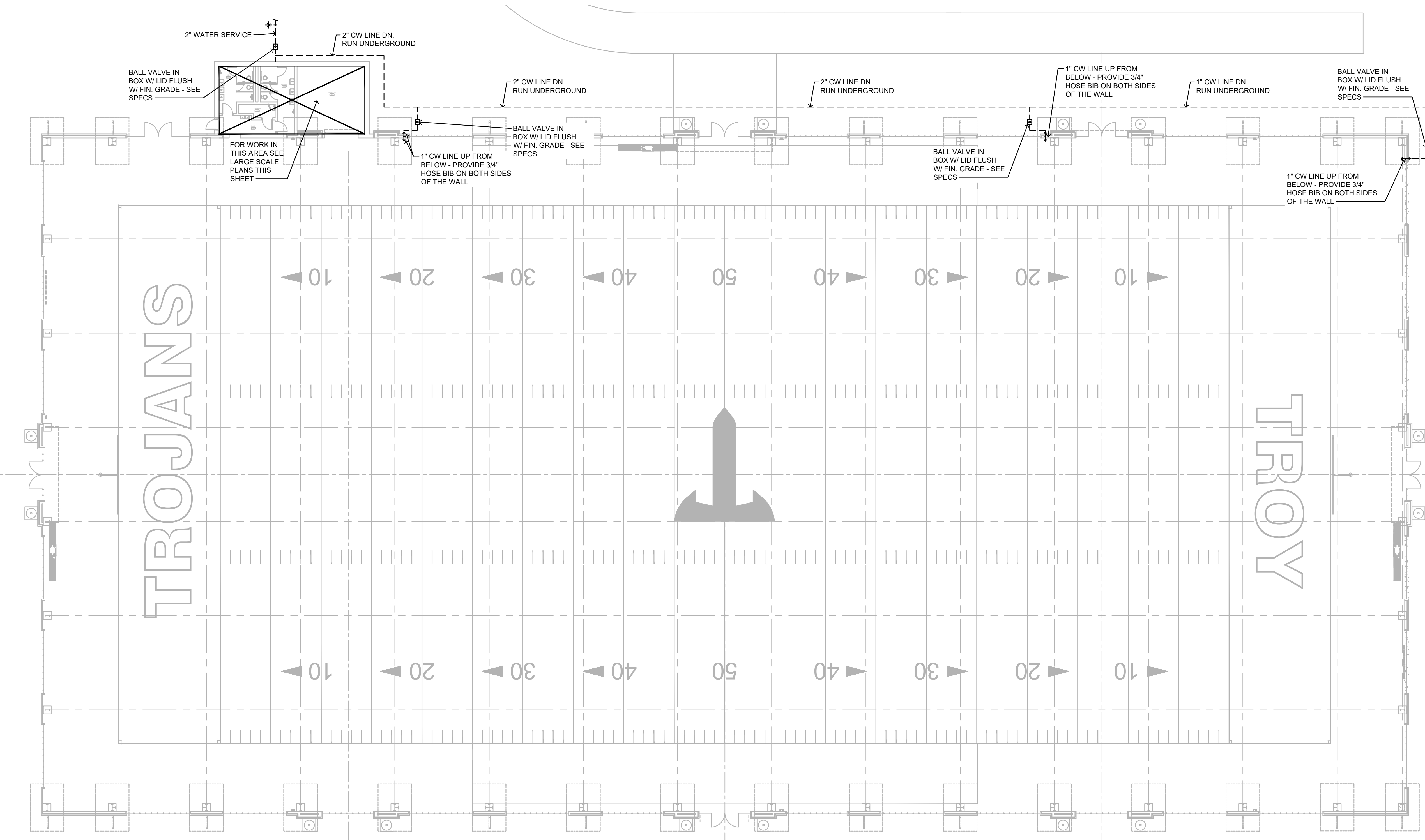




SHOWING WASTE PIPING
PLBG. FLOOR PLAN - ALTERNATE
 SCALE: 1/4" = 1'-0"



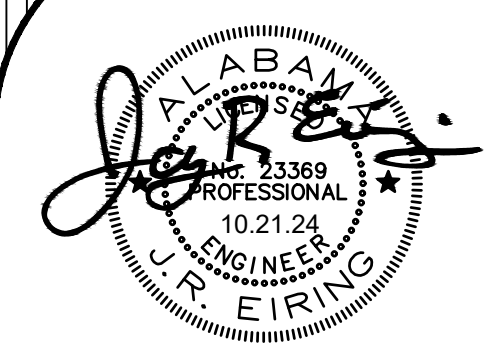
SHOWING WATER PIPING
PLBG. FLOOR PLAN - ALTERNATE
 SCALE: 1/4" = 1'-0"



SHOWING WATER PIPING
OVERALL PLBG. FLOOR PLAN - ALTERNATE
 SCALE: 1/16" = 1'-0"

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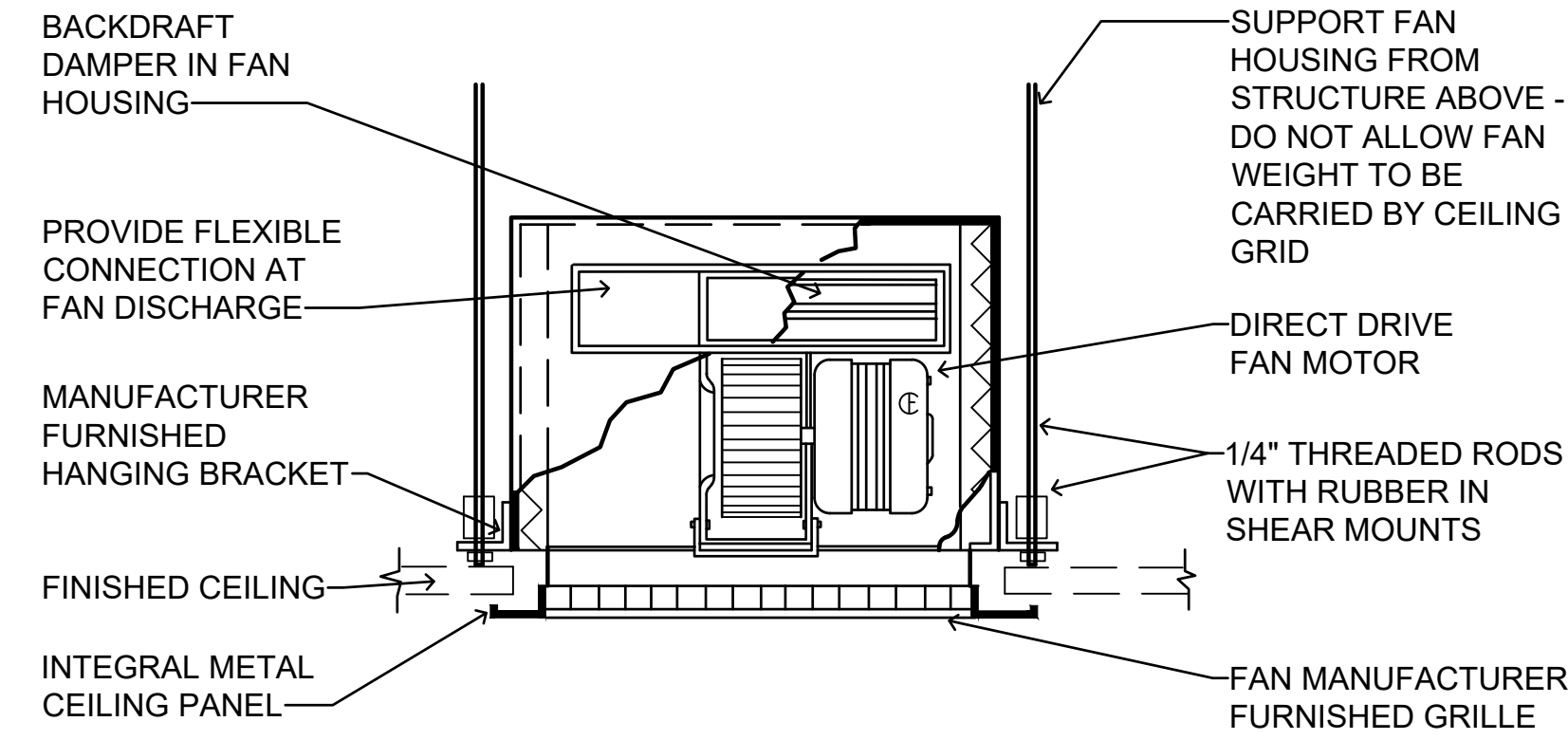
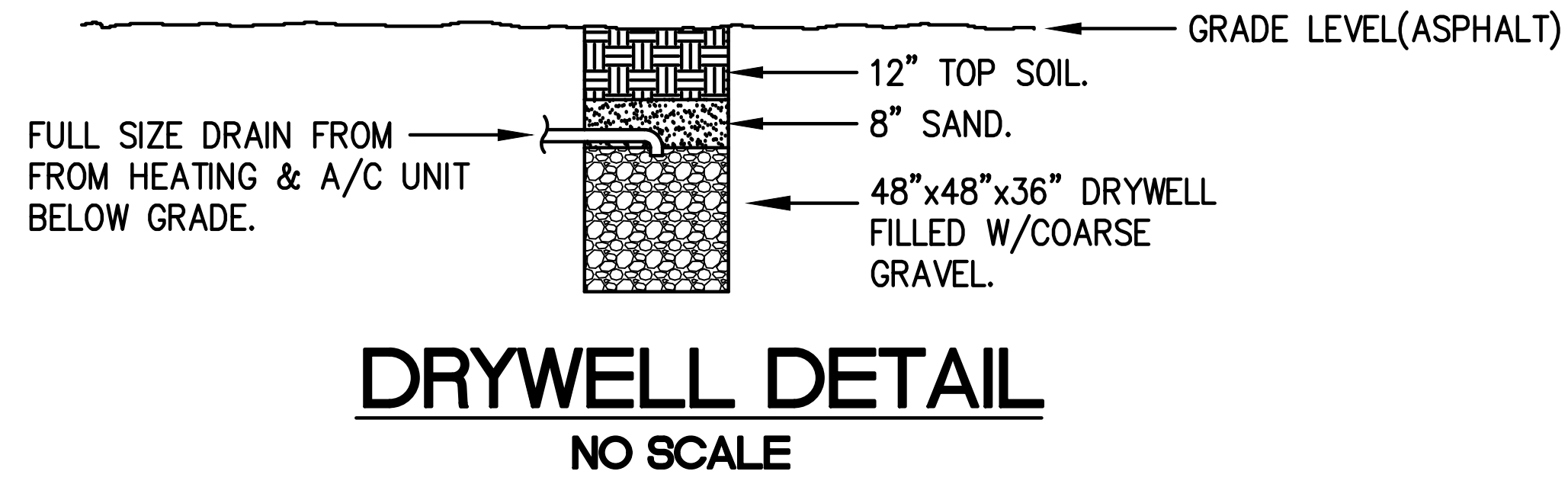
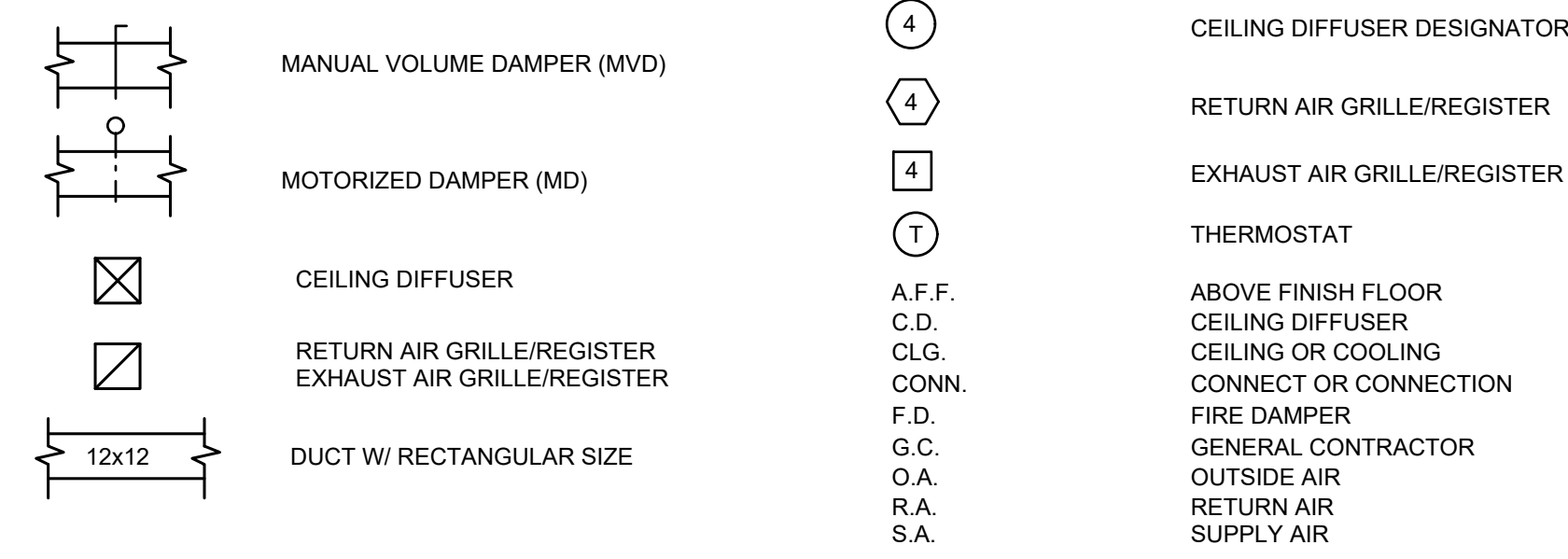


SHEET TITLE : PLBG. FLOOR PLANS - ALTERNATE
 MCKEE JOB # : 22.339
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 10.21.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :



SHEET NO. : **P3**

LEGEND



CEILING MOUNTED EXHAUST FAN CONN. DETAIL

NO SCALE

CEILING CASSETTE TYPE HEAT PUMP UNIT SCHEDULE

UNIT TYPE	CCHP-A
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	12,000
MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR	14,000
INDOOR FAN CFM AT HIGH SPEED (WET COIL)	490
OUTSIDE AIR CFM	60
INDOOR UNIT MCA - POWER	1.5 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER	11.0 A - 208 V., 1 PH., 60 HZ.
OUTDOOR UNIT MCOFP	28.0 A - 208 V., 1PH., 60HZ.
MINIMUM HSPF AT AHRI 210/240 CONDS.	12.8
MINIMUM S.E.E.R. AT AHRI 210/240 CONDS	27.0

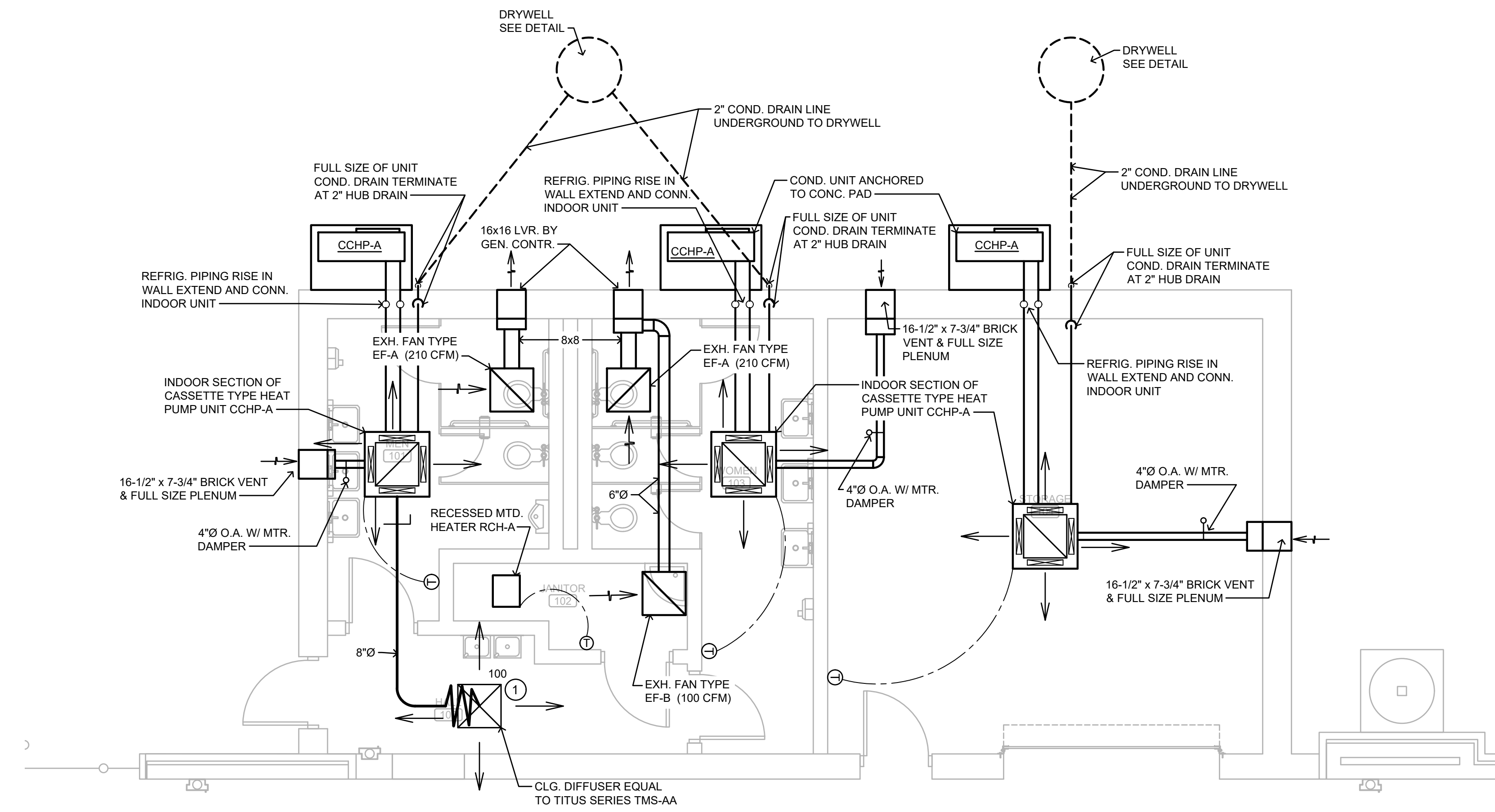
FANS SCHEDULE

FAN TYPE	EF-A	EF-B
C.F.M.	210	100
MINIMUM FAN SIZE - INCHES	8.0	8.0
APPROX. FAN ROOF/WALL OPENING - INCHES	N/A	N/A
MAXIMUM FAN SPEED - RPM	1050	1050
APPROX. EXTERNAL STATIC PRESSURE - IN. OF WATER	.25	.30
MINIMUM FAN MOTOR H.P. - POWER	84 WATTS - 120V, 1PH., 60 HZ.	84 WATTS - 120V, 1PH., 60 HZ.
CONTROL INTERLOCK	LIGHTING CIRCUIT	LIGHTING CIRCUIT
DESCRIPTION	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN

ELECTRIC UNIT HEATER SCHEDULE

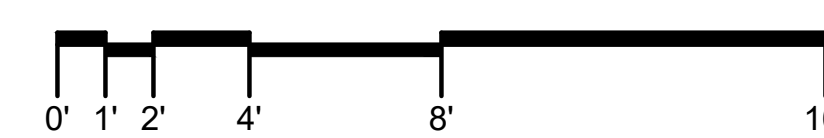
HEATER TYPE	DESCRIPTION	AIR QUANTITY - CFM	MINIMUM CAPACITY - KW	FAN HP	FAN MAX. RPM	POWER			NUMBER OF CONTROL STEPS	REMARKS
						VOLTS	PHASE	HERTZ		
RCH-A	RECESSED CLG. MOUNTED	100	2.0	1/25	1550	277	1	60	ONE	

NOTE: UNIT TO BE PROVIDED WITH FACTORY INSTALLED SINGLE POINT POWER CONNECTION (FAN AND HEATER)



HVAC FLOOR PLAN - ALTERNATE

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



IMC 1103.1 REFRIGERANT CALCULATIONS

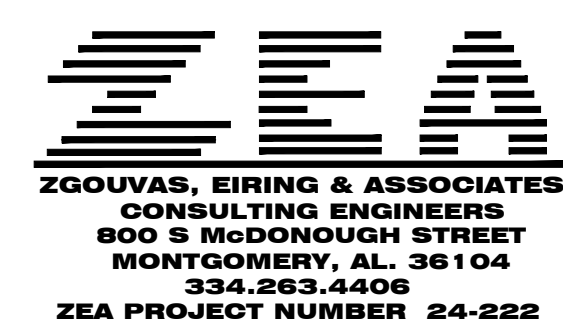
UNIT NUMBER	SPACE SERVED	UNIT COOLING CAPACITY BTUH	MFGR. LISTED CHARGE POUNDS	SPACE VOLUME CUBIC FEET	MAXIMUM ALLOWABLE PER IMC 1103.1 POUNDS PER MCF	MAXIMUM ALLOWABLE REFRIGERANT CHARGE FOR ZONE POUNDS	COMPLIES WITH IMC 1103.1	REMEDY TO COMPLY WITH IMC 1103.1 / ASHRAE 15
CCHP-A	MEN 101/CORR. 100	12,000	4.4	1,900	3.1	5.9	YES	N/A
CCHP-A	WOMEN 103	12,000	4.4	1,500	3.1	4.7	YES	N/A
CCHP-A	STORAGE 104	12,000	4.4	3,700	3.1	11.5	YES	N/A

CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
①	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS

NOTES

- 1) RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
- 2) CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.



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SHEET TITLE : HVAC FLOOR PLAN, SCHEDULES & DETAILS ALTERNATE

MCKEE JOB # : 22.339

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 10.21.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **M1**

ELECTRICAL LEGEND

CEILING OUTLETS

- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 4' LIGHT FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 1' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 2' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- SURFACE OR PENDANT MOUNTED ROUND FIXTURE
- JUNCTION BOX
- EXIT LIGHT
- EXHAUST FAN

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE PER THE NATIONAL ELECTRIC CODE.

- WALL MOUNTED COMBO EXIT LIGHT/EMERGENCY
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY WALL PACK
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX FOR RECEPTACLE; OUTLET BOX HOODS SHALL BE IDENTIFIED AS "EXTRA-DUTY"
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- PHOTOCCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GRADE
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; -10/4- 3 #12, 1 #12 GROUND - 3/4" C; -10/4- 4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; -10/4- 3 #10, 1 #10 GROUND - 3/4" C; -10/4- 4 #10, 1 #10 GROUND - 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; -8/4- 3 #8, 1 #10 GROUND - 3/4" C; -8/4- 4 #8, 1 #10 GROUND - 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250-95 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CONTROL PANEL
- NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
- FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; 'S' INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- NONFUSIBLE SWITCH
- FUSIBLE SWITCH
- DRAWOUT CONNECTION
- TRANSFORMER
- ENCLOSED CIRCUIT BREAKER
- ELECTRIC METER
- GROUNDING ELECTRODE CONNECTION
- GROUND BUSS

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- SM2 MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 VOLT
- 30/1 SM MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 30 AMP, 120/277 VOLT
- St PRESET INTERVAL TIMER SWITCH, HUBBELL TD-300 SERIES OR EQUALS
- D PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CL CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

MISCELLANEOUS EQUIPMENT

- CONTACTOR
- WATER HEATER

LIGHTING CONTROLS

- CEILING MOUNTED OCCUPANCY SENSOR
- POWER PACK FOR OCCUPANCY SENSOR
- ROOM CONTROLLER - 1 ZONE DIMMING
- ROOM CONTROLLER - 2 ZONE DIMMING
- ROOM CONTROLLER - EMERGENCY LIGHTING UL924 DEVICE
- ROOM CONTROLLER - ON/OFF NO DIMMING
- WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING
- WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING
- LOW VOLTAGE SWITCH, 2-BUTTON
- LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 277/480 VOLT, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRG. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPOBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC., WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.

SHEET TITLE : ELECTRICAL LEGEND & NOTES

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

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Consulting Engineers
3102 Highway 14 Millbrook, AL 36054
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1200 Providence Park, Suite 200 Birmingham, AL 35242
GAI#24-172

SHEET NO. : E0.1

A NEW PRACTICE FACILITY

FOR TROY UNIVERSITY TROY, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933



GENERAL NOTES:

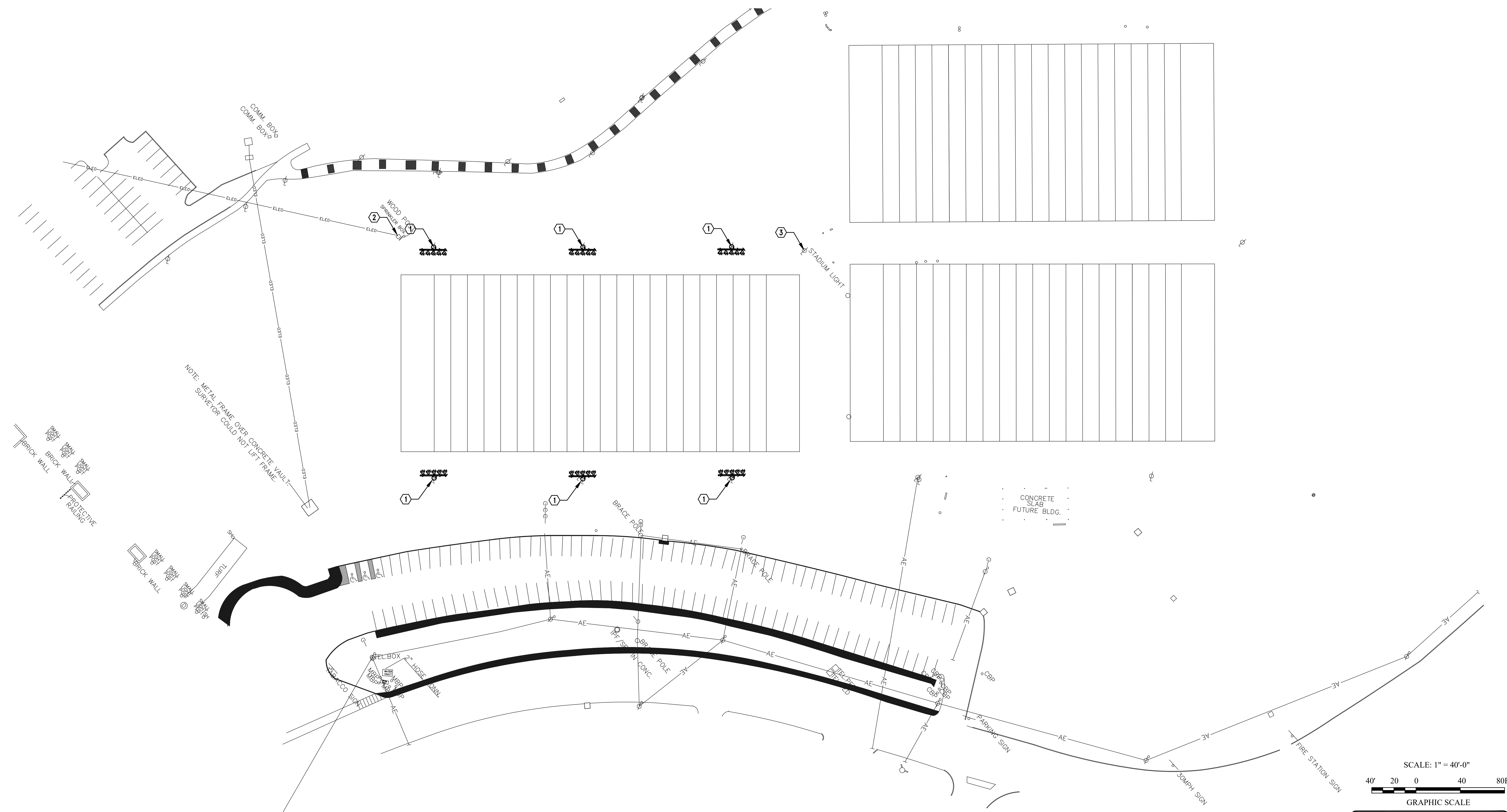
1. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDS TO HAVE FULL UNDERSTANDING OF WORK THAT IS TO BE ACCOMPLISHED.
2. ALL POLE, EQUIPMENT, AND SERVICE ENTRANCE LOCATIONS SHOWN SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BIDS.
3. ELECTRICAL MATERIALS, EQUIPMENT OR WIRING REMOVED AND NOT REQUIRED TO BE PART OF NEW ELECTRICAL INSTALLATION AND NOT INDICATED TO BE TURNED OVER TO OWNER IS CLASSIFIED AS SALVAGE.
4. OWNER SHALL BE GIVEN OPPORTUNITY TO DESIGNATE MATERIALS OR EQUIPMENT TO REMAIN PROPERTY OF OWNER BEFORE REMOVED FROM JOBSITE.
5. MATERIALS OR EQUIPMENT TO REMAIN PROPERTY OF OWNER SHALL BE DELIVERED TO THE OWNER'S DESIGNATED STORAGE FACILITY.
6. SALVAGE BECOMES PROPERTY OF CONTRACTOR. REMOVE FROM JOBSITE.

SHEET NOTES:

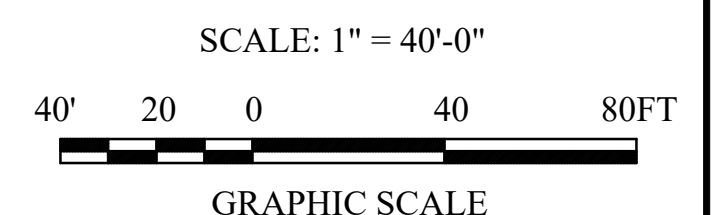
- ① CONTRACTOR SHALL REMOVE EXISTING SPORTS LIGHTING, POLE AND FEEDER.
- ② CONTRACTOR SHALL REMOVE EXISTING PANEL THAT FEEDS SPORTS LIGHTING TO BE REMOVED. REMOVE BACK TO UTILITY. COORDINATE WITH TROY UTILITIES FOR TRANSFORMER TO BE REMOVED.
- ③ MAINTAIN POLE, LIGHTS, AND FEEDER. INTERCEPT AND EXTEND FEEDER AS NEEDED TO MISS NEW CONSTRUCTION.

ELECTRICAL LEGEND

 POLE TO BE REMOVED



NOTE: METAL FRAME OVER CONCRETE VAULT SURVEYOR COULD NOT LIFT FRAME



1 SITE PLAN - DEMOLITION
SCALE: 1" = 40' - 0"

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SHEET TITLE : SITE PLAN - DEMOLITION

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : E1.0

A NEW PRACTICE FACILITY

FOR
TROY UNIVERSITY

TROY, ALABAMA

MCKEE and ASSOCIATES
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



GENERAL NOTES:

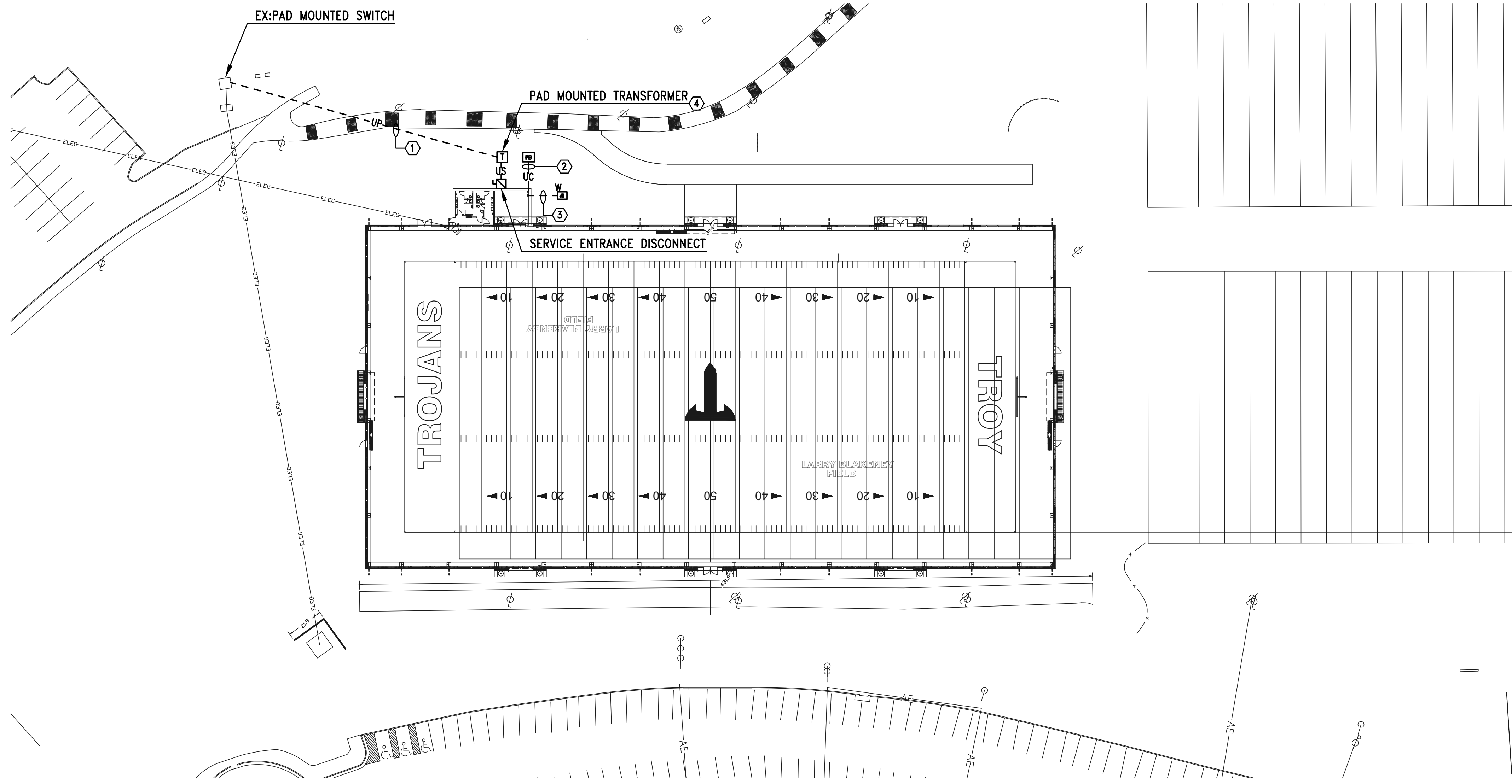
1. CONCRETE ENCASE ALL DUCTS (POWER AND COMMUNICATIONS) WHERE PASSING UNDER PARKING AREAS, DRIVES AND STREETS.
2. COORDINATE WITH POWER RISER DIAGRAM SHEET E6.1 FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. UNDERGROUND PRIMARY SHALL BE 48" MINIMUM BELOW GRADE.
4. ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.

SHEET NOTES:

- ① CONTRACTOR SHALL BORE TWO (2) HDPE UNDERGROUND 4" CONDUITS FROM NEW UTILITY COMPANY PAD MOUNTED TRANSFORMER TO THE EXISTING TROY UTILITIES SWITCH. COORDINATE EXACT LOCATIONS OF SWITCH AND TRANSFORMER LOCATION WITH TROY UTILITIES PRIOR TO BIDS.
- ② CONTRACTOR SHALL PROVIDE TWO (2) 4" UNDERGROUND CONDUITS FROM PULLBOX TO INSIDE BUILDING AND STUB UP AND CAP. PROVIDE 1500LB MULE TAPE IN EACH CONDUIT.
- ③ CONTRACTOR SHALL PROVIDE TWO (2) 1 1/4" UNDERGROUND CONDUITS FROM EXTERIOR JUNCTION BOX TO ELECTRICAL ROOM AND RISE UP IN NEW ELECTRICAL ROOM. DO NOT STUB UP INTO ANY PANEL.
- ④ CONTRACTOR SHALL PROVIDE CONCRETE PAD AND METERING PER TROY UTILITIES REQUIREMENTS. COORDINATE EITHER CT METERING OR FEED THRU METER PRIOR TO BIDS AND ADJUST SECONDARY AS REQUIRED.

UNDERGROUND UTILITY NOTES:

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
 - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
 - b. DUCTBANK INSTALLATIONS
 - c. LOW VOLTAGE CONDUCTOR INSTALLATION
 - d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
 - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
 - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
 - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
 - d. ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.



SITE LEGEND

- UP- UNDERGROUND PRIMARY
- US- UNDERGROUND SECONDARY
- UC- UNDERGROUND COMMUNICATIONS
- PAD MOUNTED TRANSFORMER
- TELECOMMUNICATIONS PULL BOX, HIGHLINE NO. PHA243624HM2 OR APPROVED EQUAL BY OLDCASTLE OR HUBBELL.
- 8"x8"x4" WEATHERPROOF JUNCTION BOX. INSTALL TOP OF BOX FLUSH WITH GRADE.

SITE PLAN - ELECTRICAL
SCALE: 1" = 40'-0"

NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
6. LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
7. ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
8. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
9. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

REF	SI	ENGLISH
A	305mm	1'-0"
B	152mm	0'-6"
C	51mm	0'-2"
D	203mm	0'-8"
E	76mm	0'-3"

NOTES:

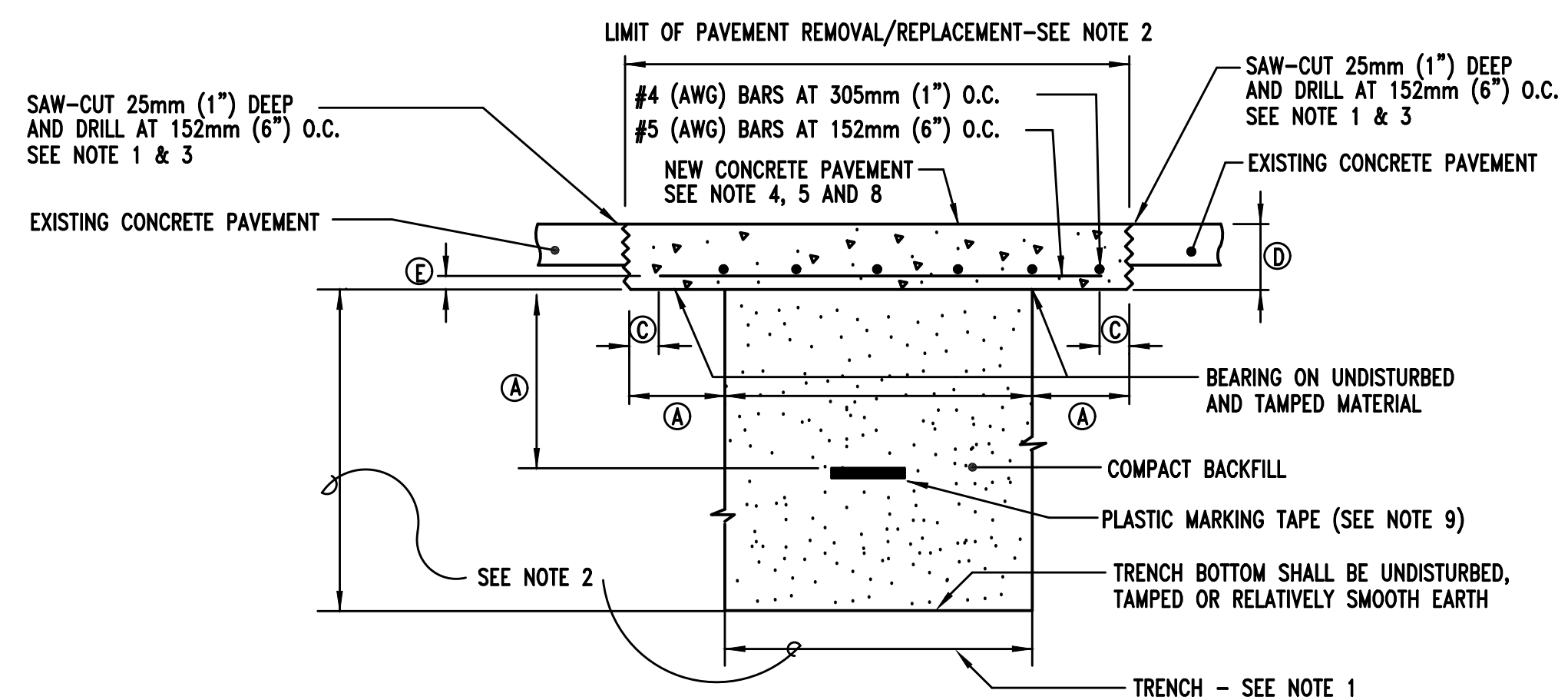
1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
4. CONCRETE SHALL BE CLASS A.
5. MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
6. REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
7. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

REF	SI	ENGLISH
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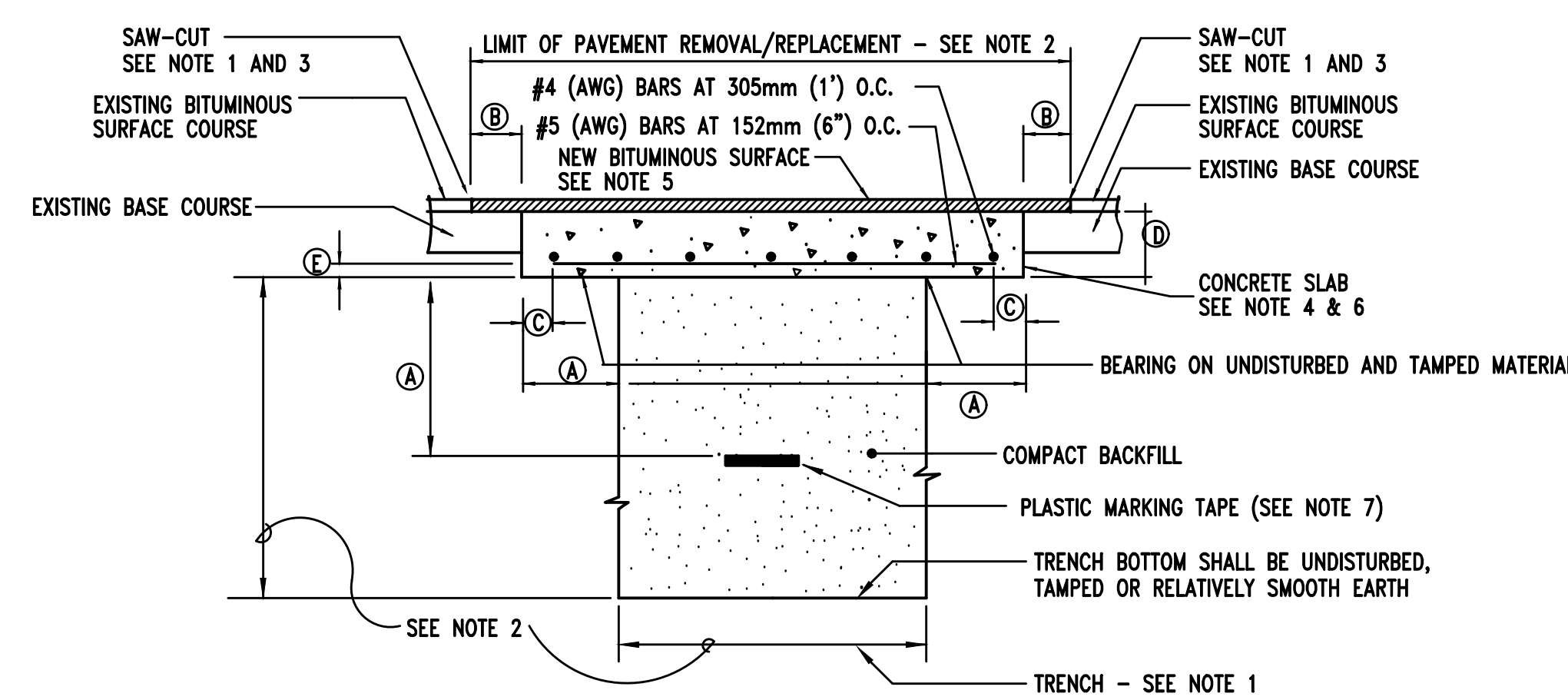
NOTES:

1. TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
2. TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
3. PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

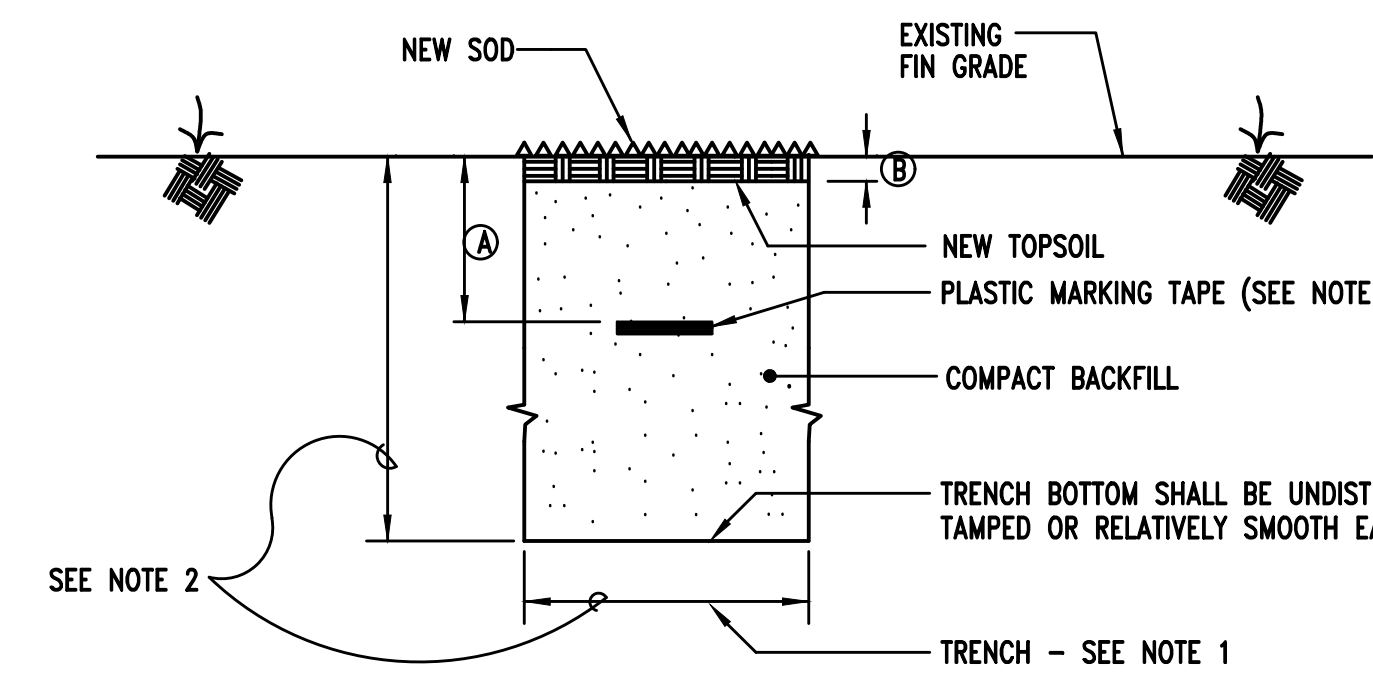
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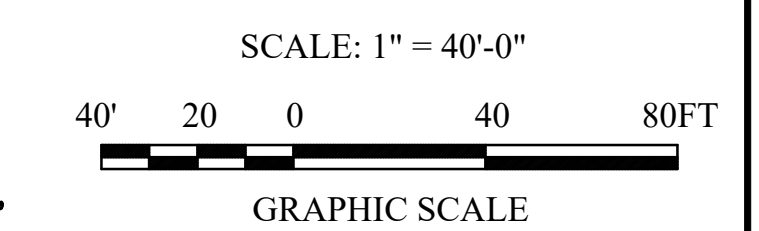
SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT
NO SCALE



SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT
NO SCALE



SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS
NO SCALE



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SHEET TITLE : SITE PLAN - ELECTRICAL

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

REVISED DATE :

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REVISED DATE :

SHEET NO. : **E1.1**

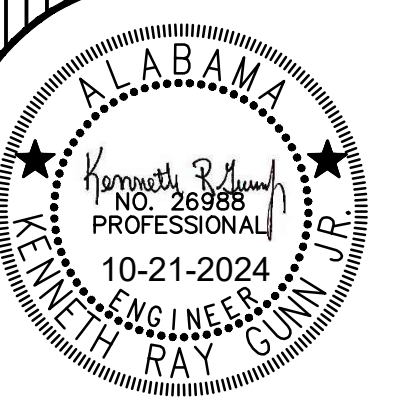
A NEW PRACTICE FACILITY

FOR TROY UNIVERSITY

TROY, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933

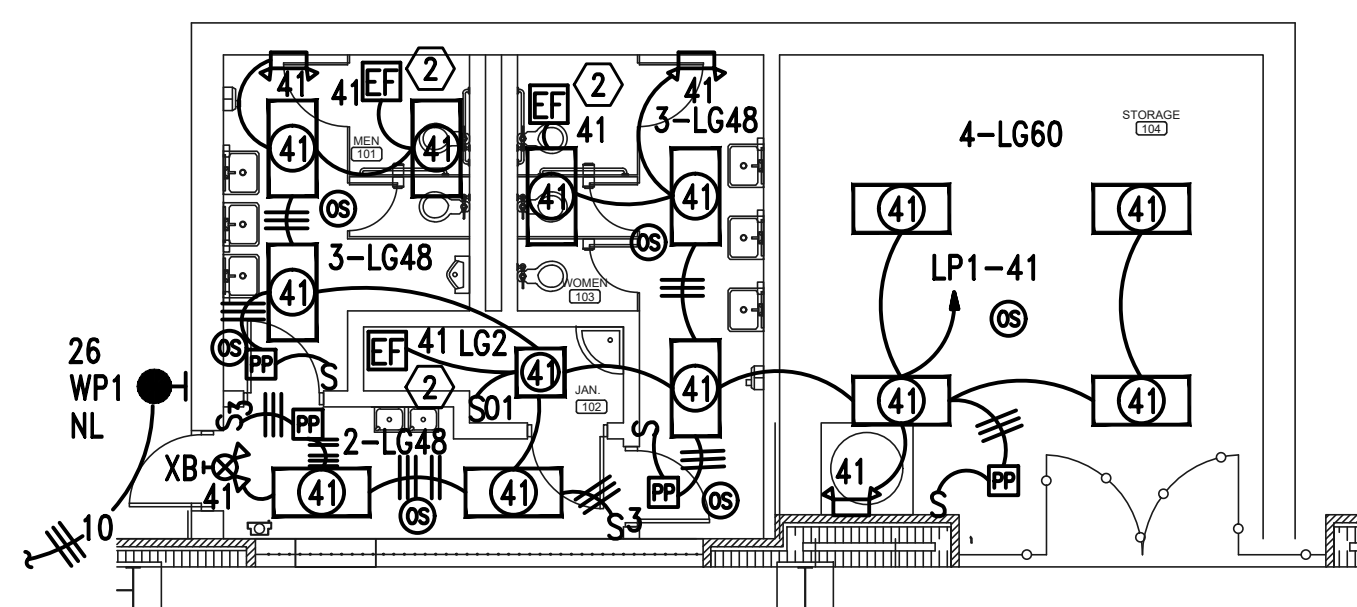


ROOM CONTROLLER NOTES:

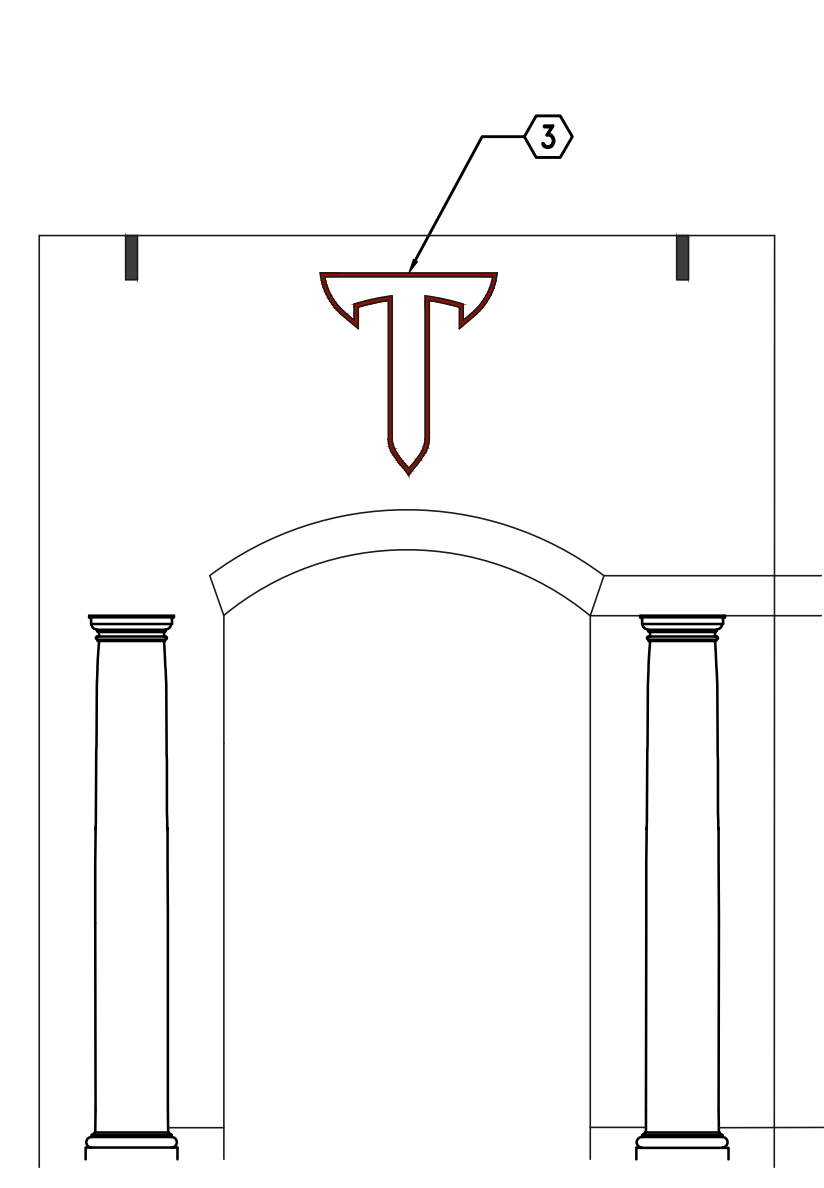
- CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

SHEET NOTES:

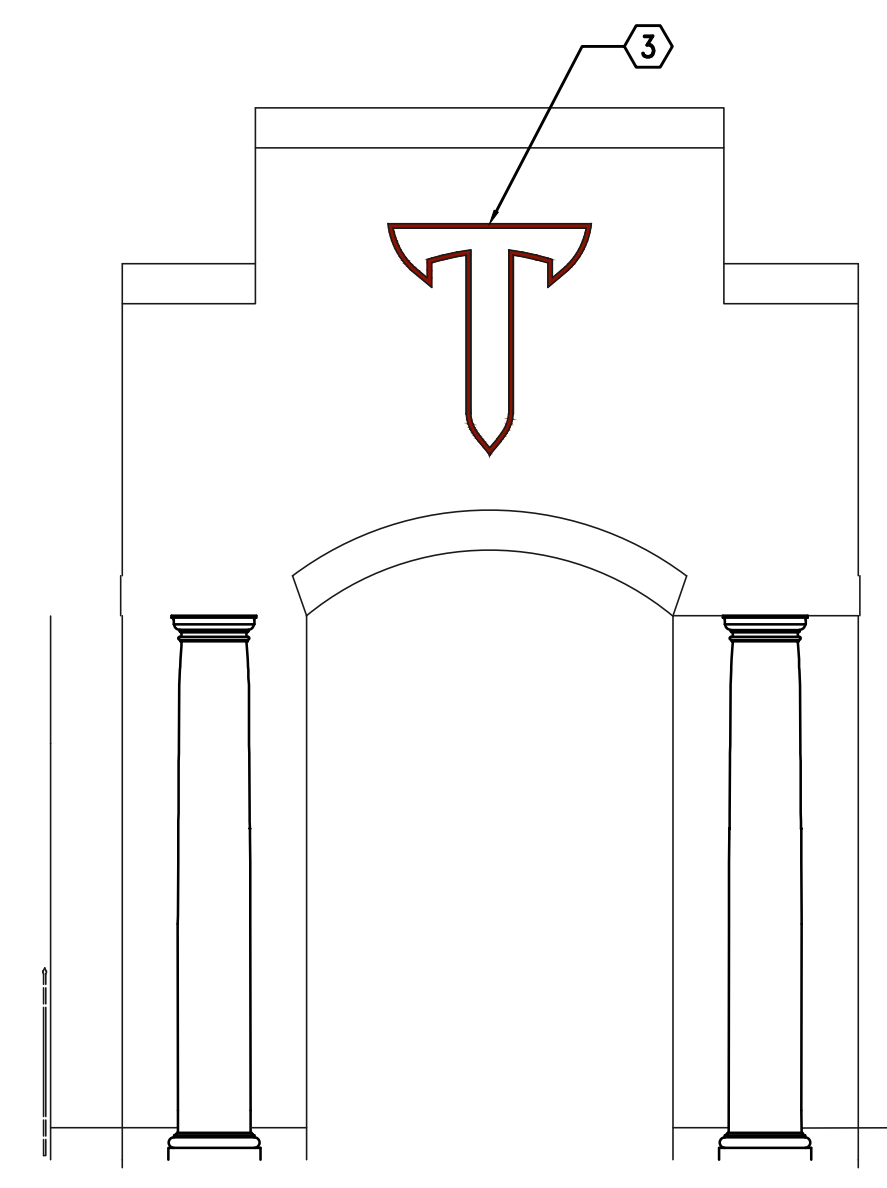
- PROVIDE WIREGUARD FOR ALL EXIT SIGNS AND EMERGENCY WALL PACKS AND SWITCHES IN THIS AREA. ALSO, THESE LIGHTS MUST ALL BE WEATHER PROOF.
- PROVIDE INTERCONNECTING RELAY TRANSFORMER TO CONTROL 120V EXHAUST FAN ON/OFF BY THE 277 VOLT LIGHTING CIRCUIT IN THIS ROOM. TRANSFORMER SHALL BE 277V INPUT, 120V OUTPUT, 1,000 VA.
- PROVIDE POWER TO THE LIGHTED TROY LOGO. SEE ELEVATIONS THIS SHEET FOR LOCATION DETAILS. COORDINATE ROUGH-IN LOCATIONS WITH LOGO PROVIDER.
- PROVIDE LOW VOLTAGE CABLING FROM LOW VOLTAGE SWITCH TO THE LIGHTING CONTROL PANEL AS REQUIRED BY LIGHTING CONTROL PANEL MANUFACTURER.
- ALL CONDUIT FEEDING LIGHTS MUST BE RUN OVERHEAD CONCEALED BY METAL WALL PANELS ABOVE THEN RUN DOWN THE INTERIOR OF STEEL COLUMN TO LIGHTS DOWN WALLS. ALL CONDUIT MUST BE RUN NEAT AND ROUTING MUST BE APPROVED BY ARCHITECT.
- COORDINATE FINAL LIGHT SWITCH LOCATION WITH TROY ATHLETIC DEPARTMENT PRIOR TO ROUGH-IN AND ADJUST LOCATIONS AS DIRECTED BY TROY ATHLETICS.



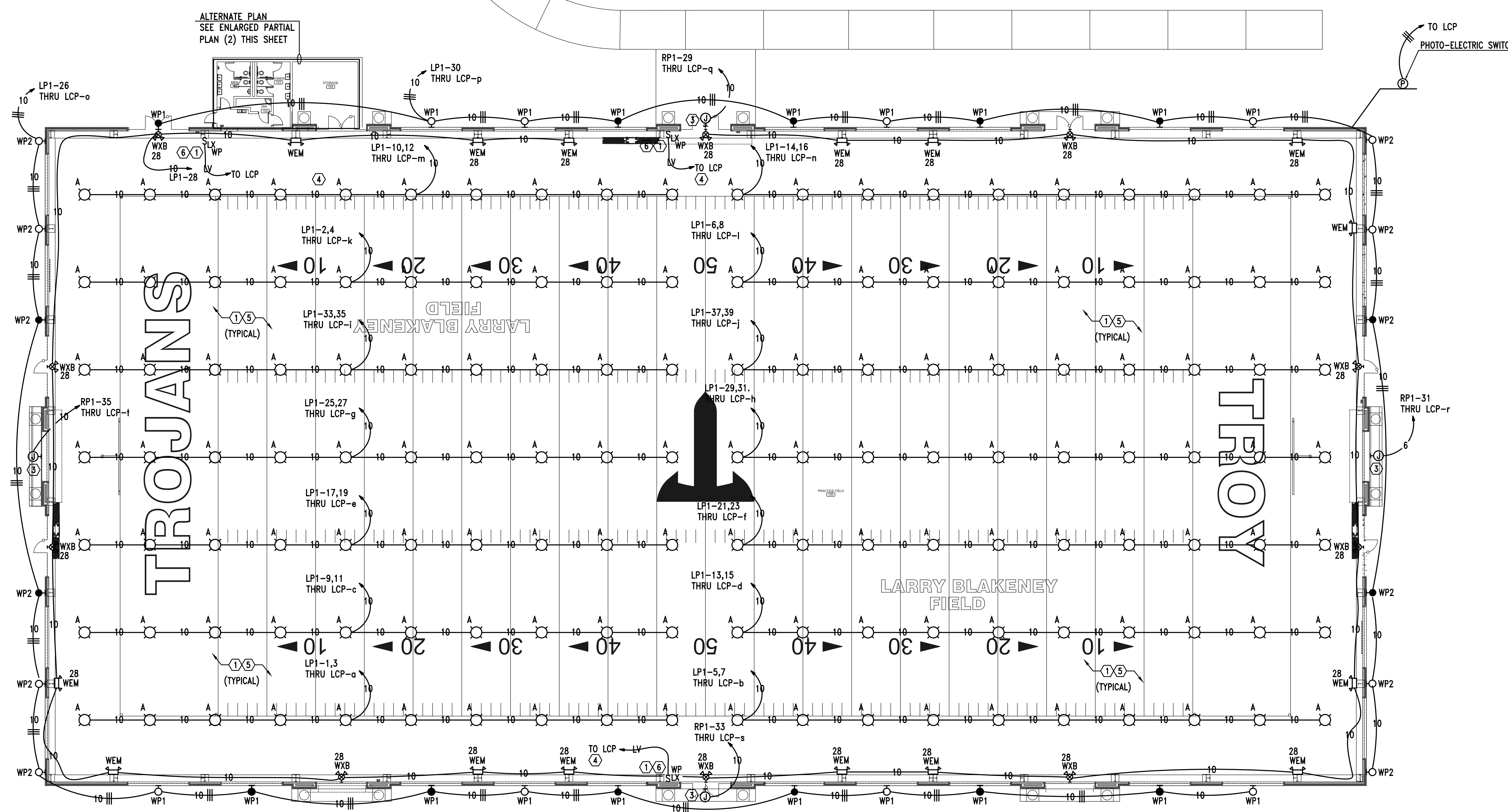
2 ENLARGED ALTERNATE PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



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



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



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

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SHEET TITLE : FLOOR PLAN - LIGHTING

MCKEE JOB # : 22.339

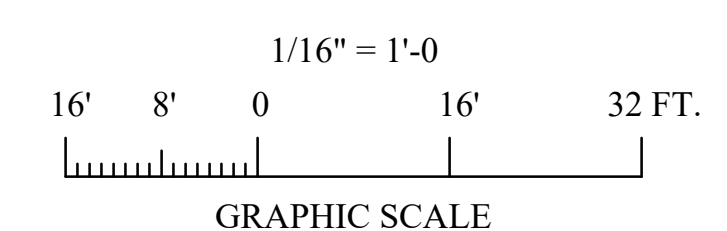
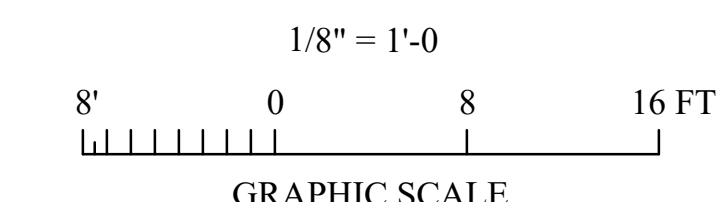
DRAWN BY : J. TILLERY

DATE : 10.21.2024

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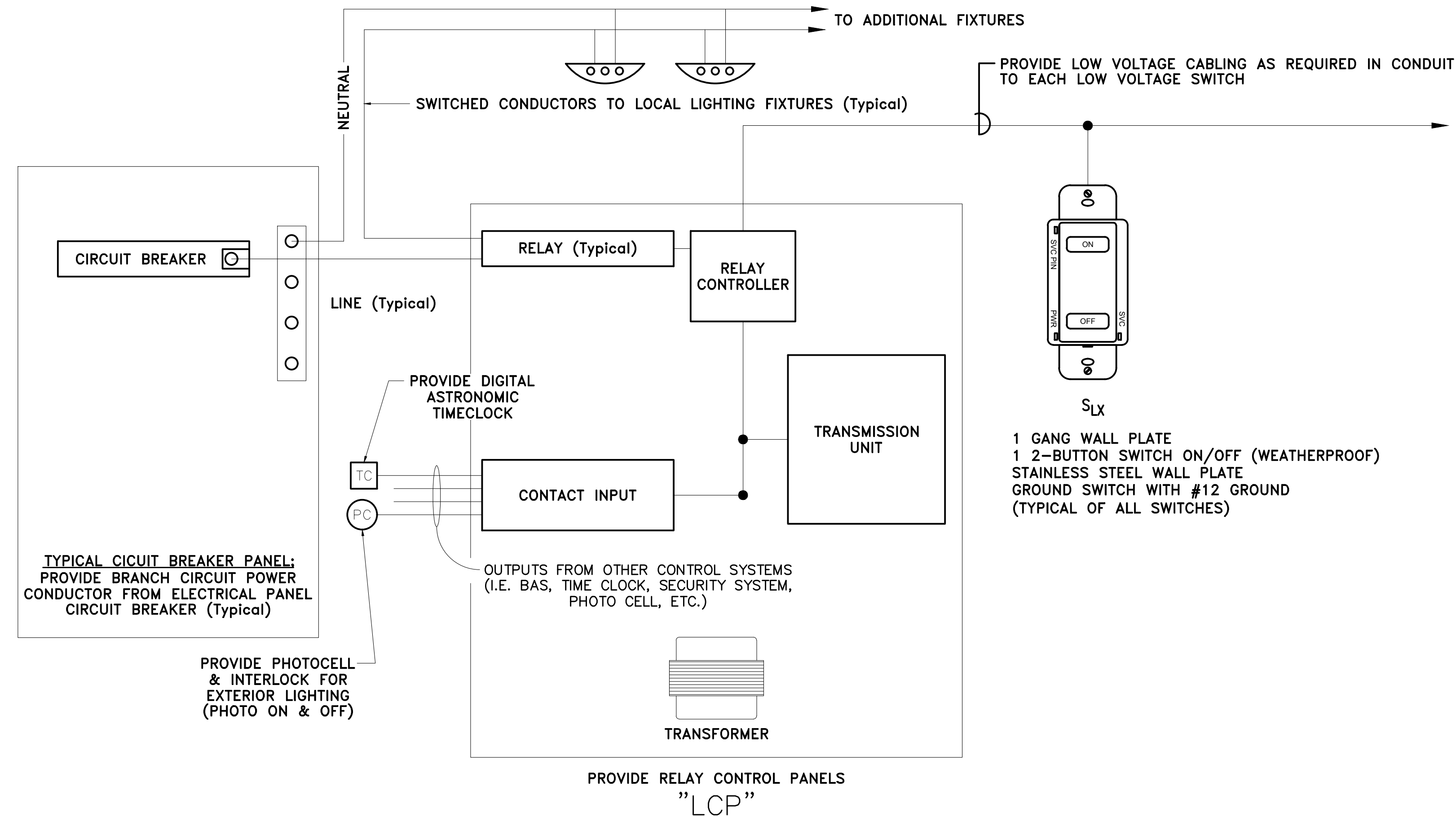
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1200 Providence Park, Suite 200
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GAI24-172

SHEET NO. : E2.1

LIGHTING CONTROL SYSTEM NOTES

1. PROVIDE BLINK FLASH MODULE TO ENABLE THE LIGHTING CONTROL SYSTEM TO BLINK THE LIGHTS FOR WARNING THE LIGHTS ARE ABOUT TO GO OFF.
2. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
3. ALL WIRING FOR LIGHTING CONTROL SYSTEM SHALL BE INSTALLED IN CONDUIT.
4. ALL DEVICES ARE SHOWN TYPICAL. SEE DRAWINGS FOR ACTUAL DEVICE COUNT.
5. PROVIDE SUBMITTAL DRAWINGS SHOWING THE COMPLETE LIGHTING CONTROL SYSTEM (RELAYS, PANELS, SWITCHES, DIMMER RELAYS, AMPLIFIERS, INTERCONNECTING CIRCUITRY, ETC.) SHALL BE SUBMITTED TO THE ENGINEER OF RECORD DURING THE SUBMITTAL REVIEW. SUBMITTALS WILL BE REJECTED WITHOUT FULL DRAWINGS.
6. PROVIDE 6-CHANNEL ASTRONOMIC DIGITAL TIMECLOCK WITH SYSTEM FOR AUTOMATIC LIGHTING CONTROL SCHEDULE OF REQUIRED INTERIOR LIGHTING AUTOMATIC SHUT OFF AND EXTERIOR LIGHTING EVENING ON/OFF SCHEDULE. INTERIOR LIGHTING SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
7. SYSTEM PROGRAMMING GROUPS, PATTERNS, ETC. SHALL BE CONDUCTED BY CERTIFIED MANUFACTURER'S REPRESENTATIVE SUBJECT TO OWNER'S APPROVAL.
8. PROVIDE 20AMP 120VAC DEDICATED CIRCUIT TO LIGHTING CONTROL PANELS AND TIMECLOCK.
9. ALL PROGRAMMING SHALL BE PROVIDED BY A CERTIFIED MANUFACTURER REPRESENTATIVE PROVIDED AT THE JOBSITE. COORDINATE WITH OWNER FOR FINAL PROGRAMMING REQUIREMENTS AND IMPLEMENT INTO FINAL PROGRAMMING.
10. APPROVED MANUFACTURER'S ARE HUBBELL, EATON, NEXLIGHT, AND N-LIGHT.



1 LOW VOLTAGE LIGHTING CONTROL DETAIL
NO SCALE

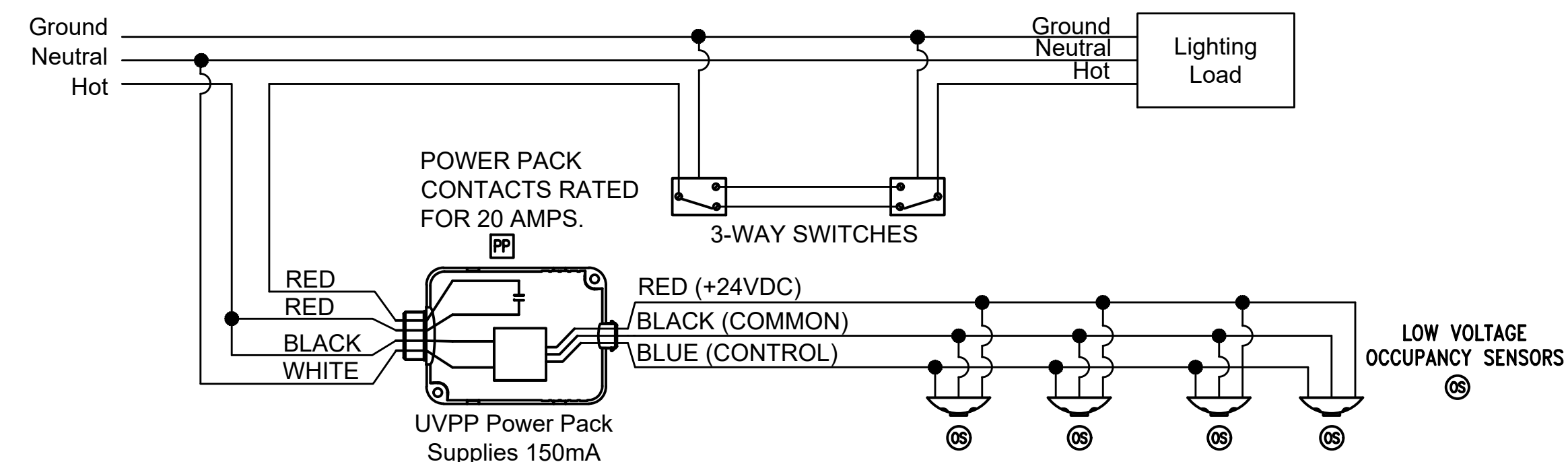
LIGHTING CONTROL PANEL - (LCP)

RELAY #	PANEL	CIRCUIT #	CIRCUIT VOLTAGE	FUNCTION	RELAY	NOTES
a	LP1	1,3	480	ON/OFF	20A/2P	
b	LP1	5,7	480	ON/OFF	20A/2P	
c	LP1	9,11	480	ON/OFF	20A/2P	
d	LP1	13,15	480	ON/OFF	20A/2P	
e	LP1	17,19	480	ON/OFF	20A/2P	
f	LP1	21,23	480	ON/OFF	20A/2P	
g	LP1	25,27	480	ON/OFF	20A/2P	
h	LP1	29,31	480	ON/OFF	20A/2P	
i	LP1	33,35	480	ON/OFF	20A/2P	
j	LP1	37,39	480	ON/OFF	20A/2P	
k	LP1	2,4	480	ON/OFF	20A/2P	
l	LP1	6,8	480	ON/OFF	20A/2P	
m	LP1	10,12	480	ON/OFF	20A/2P	
n	LP1	14,16	480	ON/OFF	20A/2P	
o	LP1	26	277	NL/OL	20A/1P	NOTE 1
p	LP1	30	277	NL/OL	20A/1P	NOTE 1
q	RP1	29	120	NL	20A/1P	NOTE 2
r	RP1	31	120	NL	20A/1P	NOTE 2
s	RP1	33	120	NL	20A/1P	NOTE 2
t	RP1	35	120	NL	20A/1P	NOTE 2
u			277		20A/1P	SPARE
v			277		20A/1P	SPARE

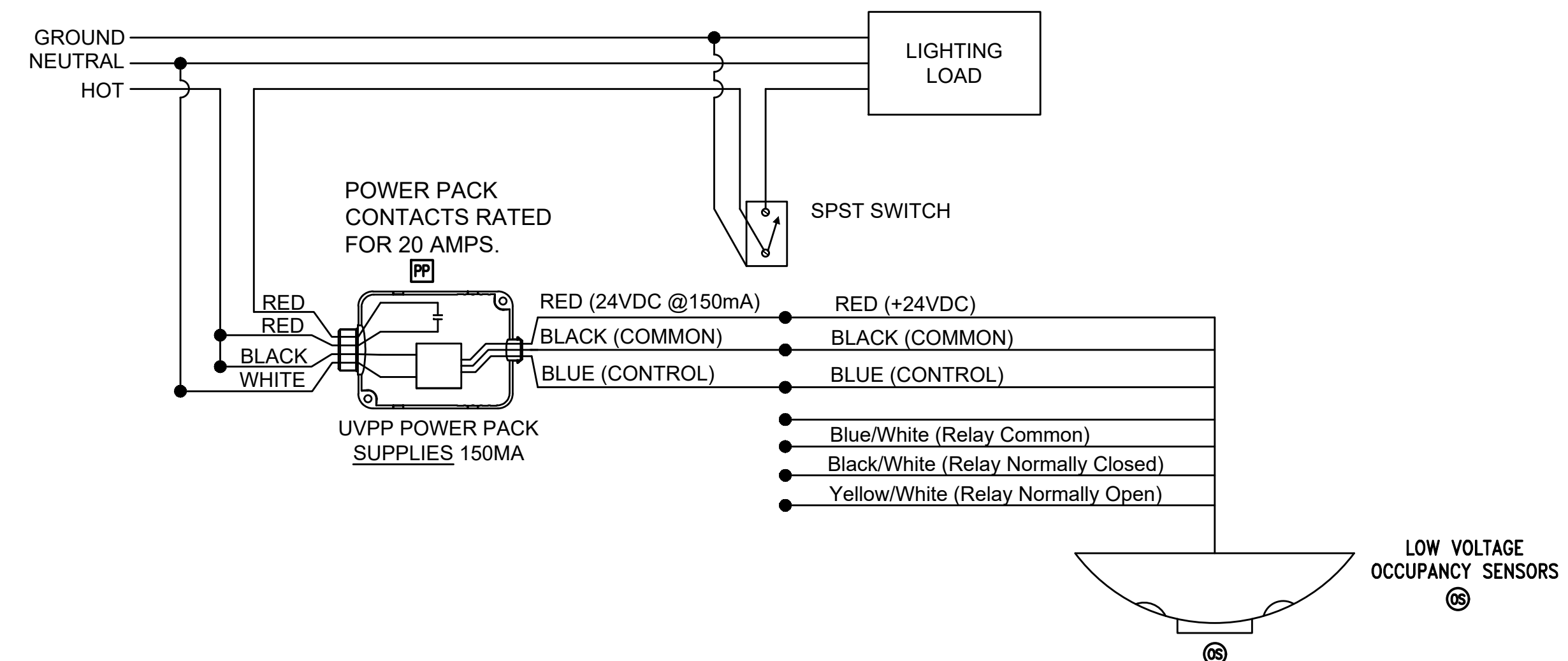
- NOTES:
1. "NL" PHOTOCELL ON - PHOTOCELL OFF
 - "OL" PHOTOCELL ON - ASTRONOMICAL CLOCK TURNS LIGHTS OFF AT 12 MIDNIGHT
 2. "NL" PHOTOCELL ON - PHOTOCELL OFF
 3. PROVIDE LIGHTING CONTROL PANEL EQUAL TO HUBBELL CX PANEL. PROVIDE ON SITE PROGRAMMING AS NEEDED. COOPER AND MUSCO ARE APPROVED EQUALS

OCCUPANCY SENSOR AND CONTROL NOTES:

1. OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
2. OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
3. ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
4. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
7. LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
8. WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
9. CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



2 TYPICAL 3-WAY SWITCHING OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE



3 TYPICAL SINGLE SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE

A NEW PRACTICE FACILITY
 FOR
TROY UNIVERSITY
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MCKEE and ASSOCIATES
 ARCHITECTS, INC.



SHEET TITLE : LIGHTING CONTROLS, DETAILS & NOTES

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

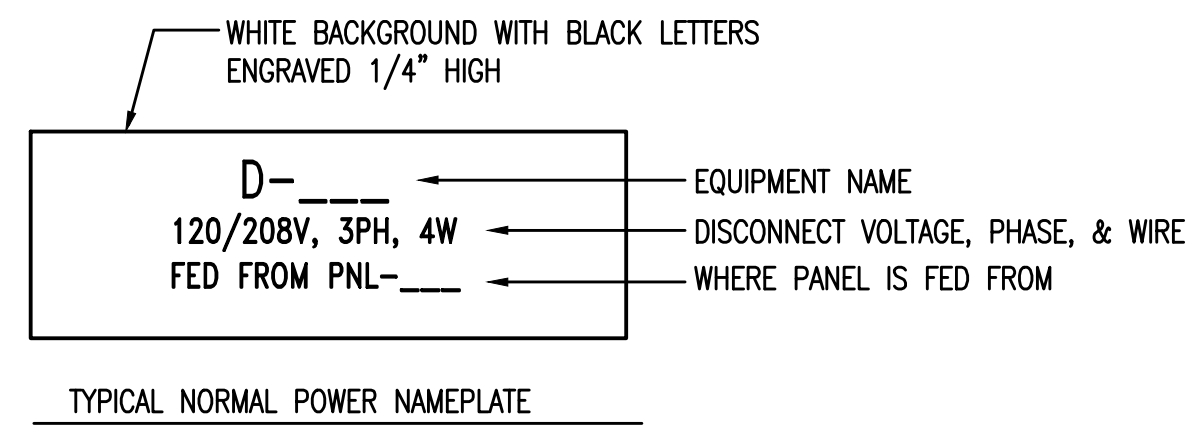
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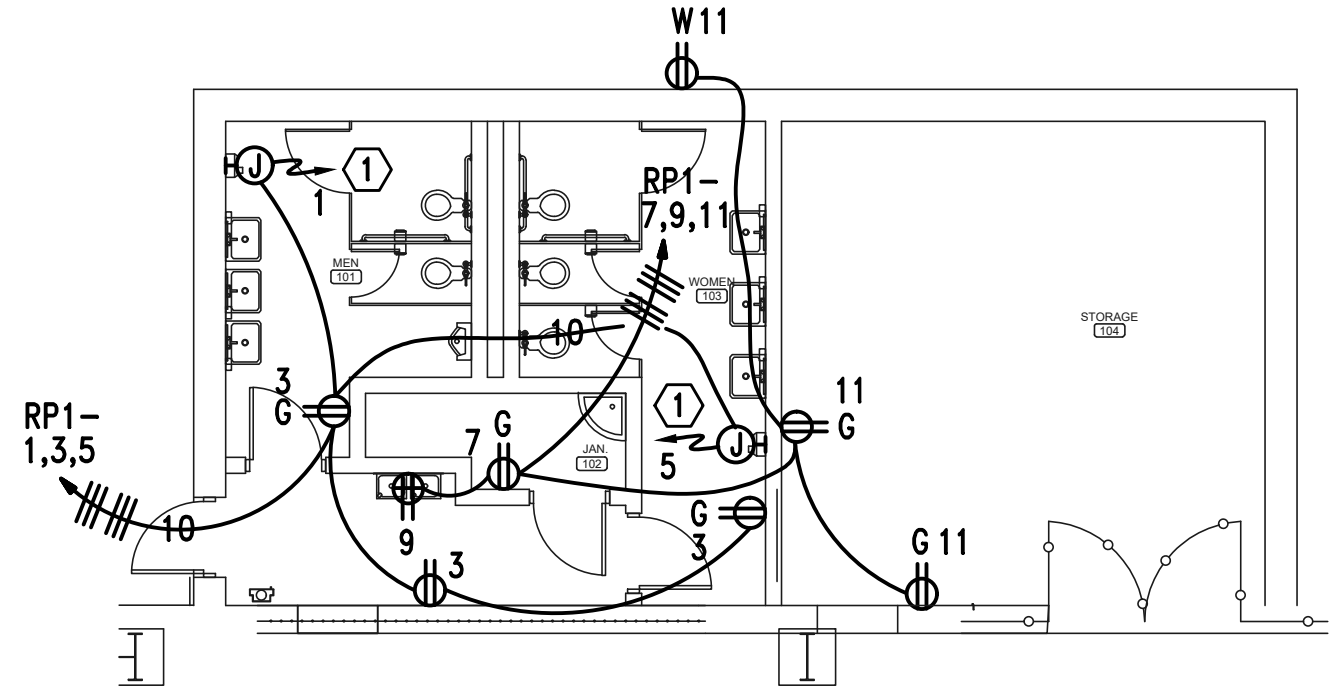
REVISED DATE :

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 Consulting Engineers
 3102 Highway 14 Millbrook, AL 36054 1200 Providence Park, Suite 200 Birmingham, AL 35242
 Tel: 334.285.1273 Fax: 205.944.1172

SHEET NO. : **E2.2**



4
E3.1
DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

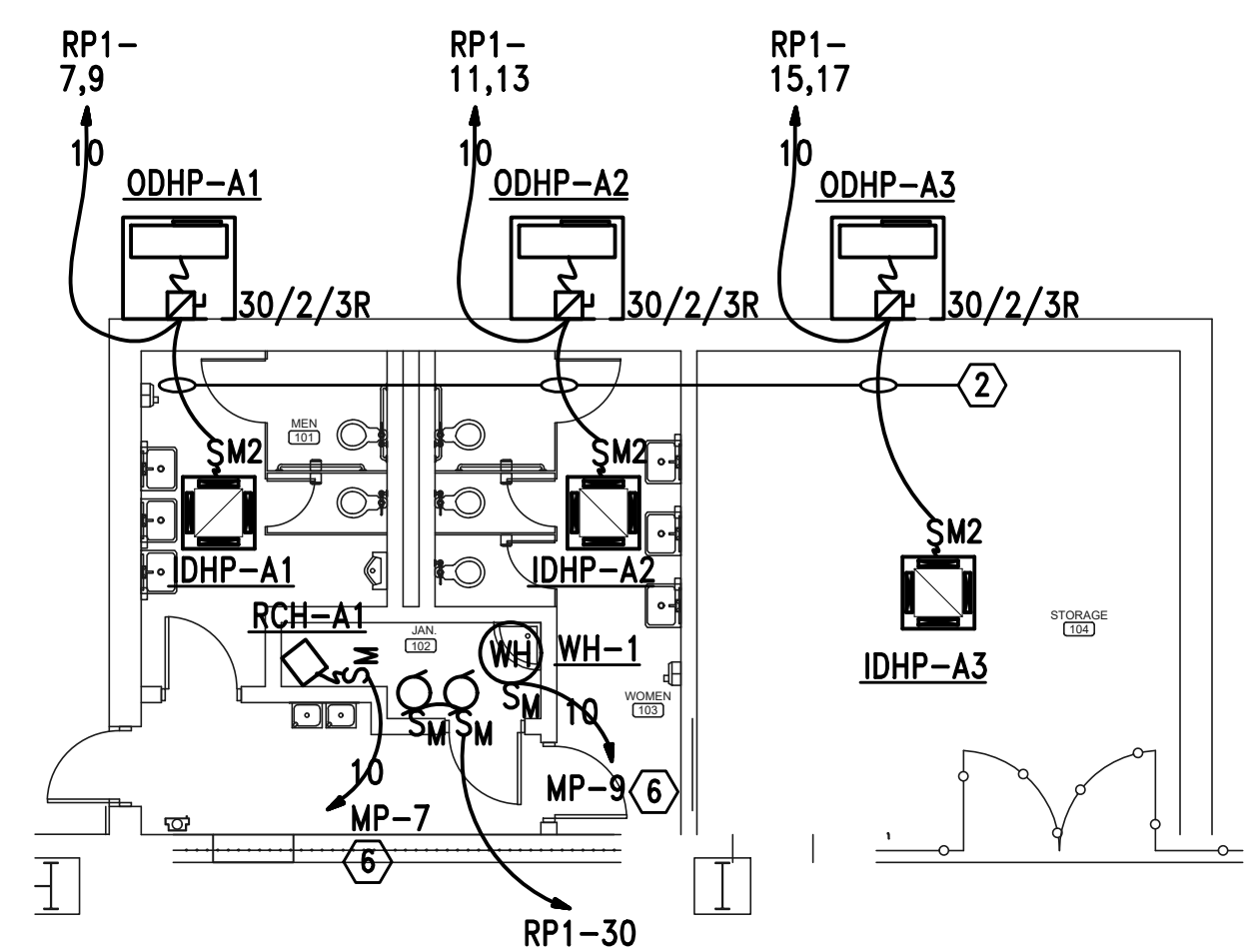


ENLARGED ALTERNATE

2
E3.1
PARTIAL FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL, NO EXCEPTIONS.
4. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.
5. RACEWAYS WILL NOT BE ALLOWED TO RUN FROM COLUMN TO COLUMN UNLESS CONCEALED BY WALL PANELS. COORDINATE WITH ARCHITECTURAL ELEVATIONS PRIOR TO BIDS.



ENLARGED ALTERNATE

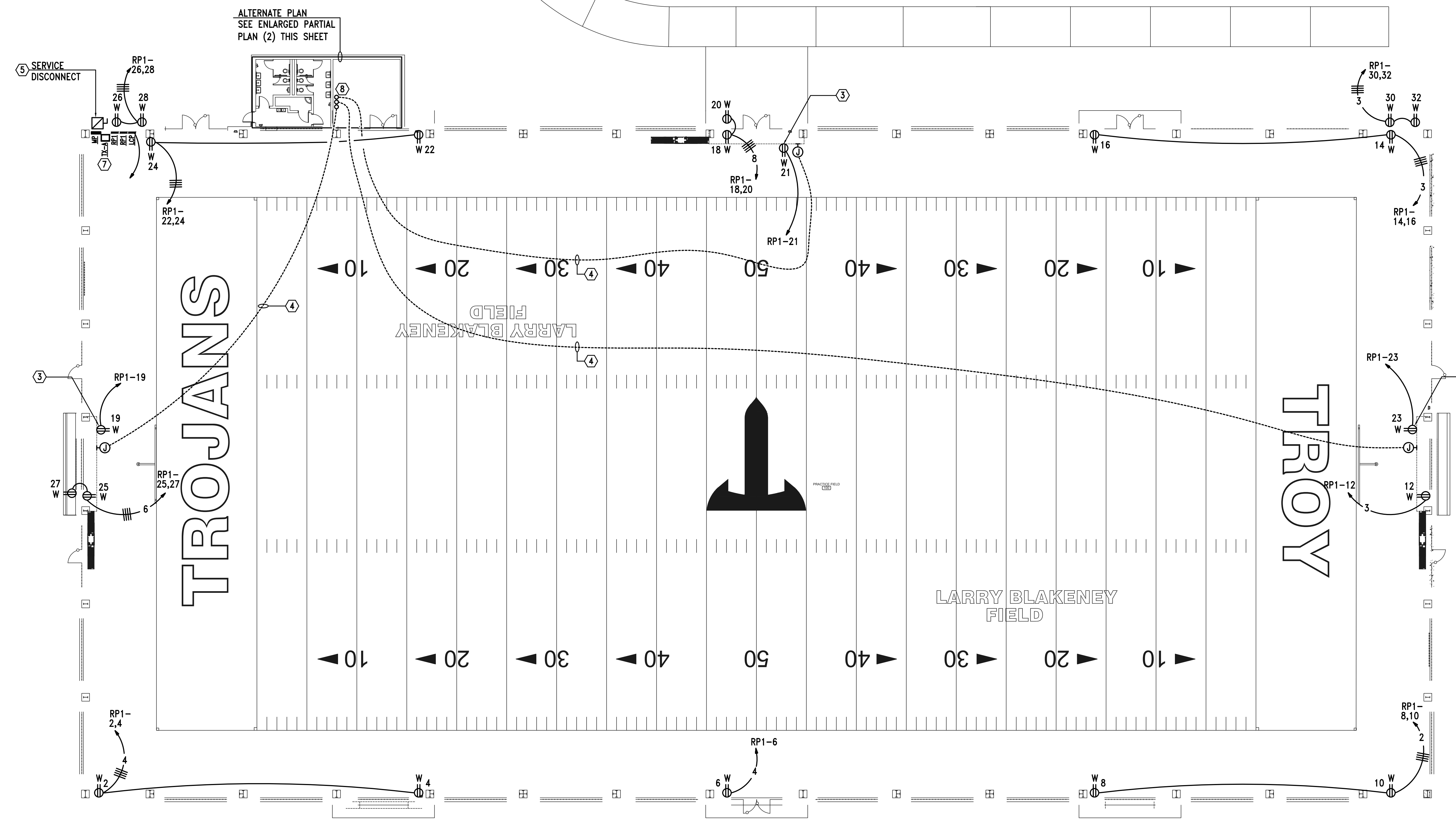
3
E3.1
PARTIAL FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. PROVISIONS FOR ELECTRIC HAND DRYER. IF ELECTRIC HAND DRYER NOT PROVIDED, MOUNT JUNCTION BOX BEHIND PAPER TOWEL DISPENSER AND WALL BLANK OFF. CIRCUIT BREAKERS FEEDING CIRCUITRY SHALL BE SWITCHED OFF AND WIRE DISCONNECTED.
2. INTERIOR UNIT RECEIVES POWER FROM THE EXTERIOR UNIT. PROVIDE INTERCONNECTING CIRCUITRY AS NEEDED IN CONDUIT TO CONNECT THE INTERIOR UNIT.
3. MOUNT RECEPTACLE UP AT PLATFORM LEVEL.
4. PROVIDE JUNCTION BOX AT PLATFORM LEVEL WITH 2" CONDUIT TO ELECTRICAL ROOM. STUB UP IN ELECTRICAL ROOM. PROVIDE 15016 MULE TAPE IN CONDUITS.
5. COORDINATE LOCATION OF DISCONNECT WITH MECHANICAL CONTRACTOR TO PROVIDE NEC CLEARANCES.
6. CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR CORRECT NEMA CONFIGURATION FOR CORD AND PLUG EQUIPMENT. CONTRACTOR SHALL PROVIDE 2 POLE TOGGLE SWITCH DISCONNECT AS REQUIRED IF NOT CORD AND PLUG IS NOT PROVIDED.
7. CONTRACTOR SHALL SUSPEND DRY-TYPE TRANSFORMER ABOVE WALL MOUNTED PANELS. PROVIDE ALL STRUCTURE AS NEEDED TO SUSPEND THE DRY-TYPE TRANSFORMER.
8. CONTRACTOR SHALL LOCATE CONDUIT STUB UPS BESIDE PANELS IF ALTERNATE IS NOT TAKEN.

MECHANICAL GENERAL NOTES:

1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.

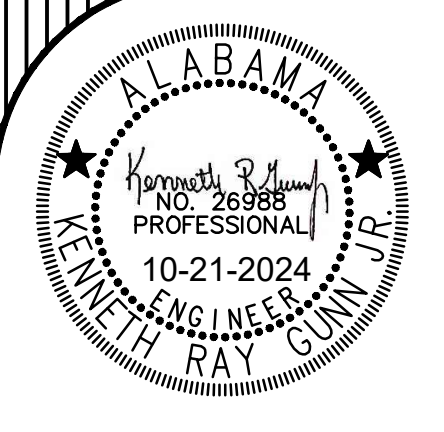


1
E3.1
FLOOR PLAN - POWER
SCALE: 1/16" = 1'-0"

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TROY, ALABAMA

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SHEET TITLE : FLOOR PLAN - POWER

MCKEE JOB # : 22.339

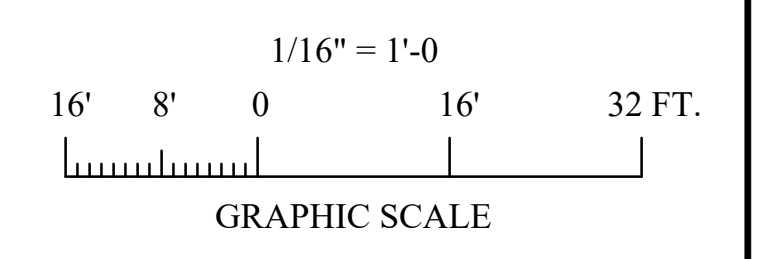
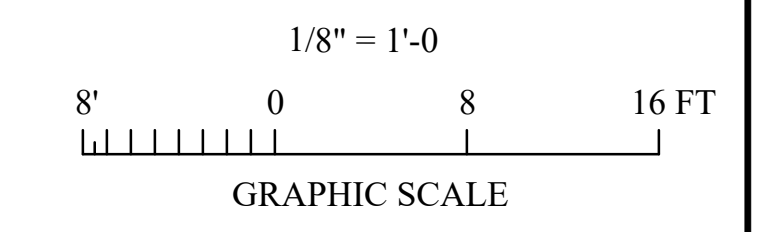
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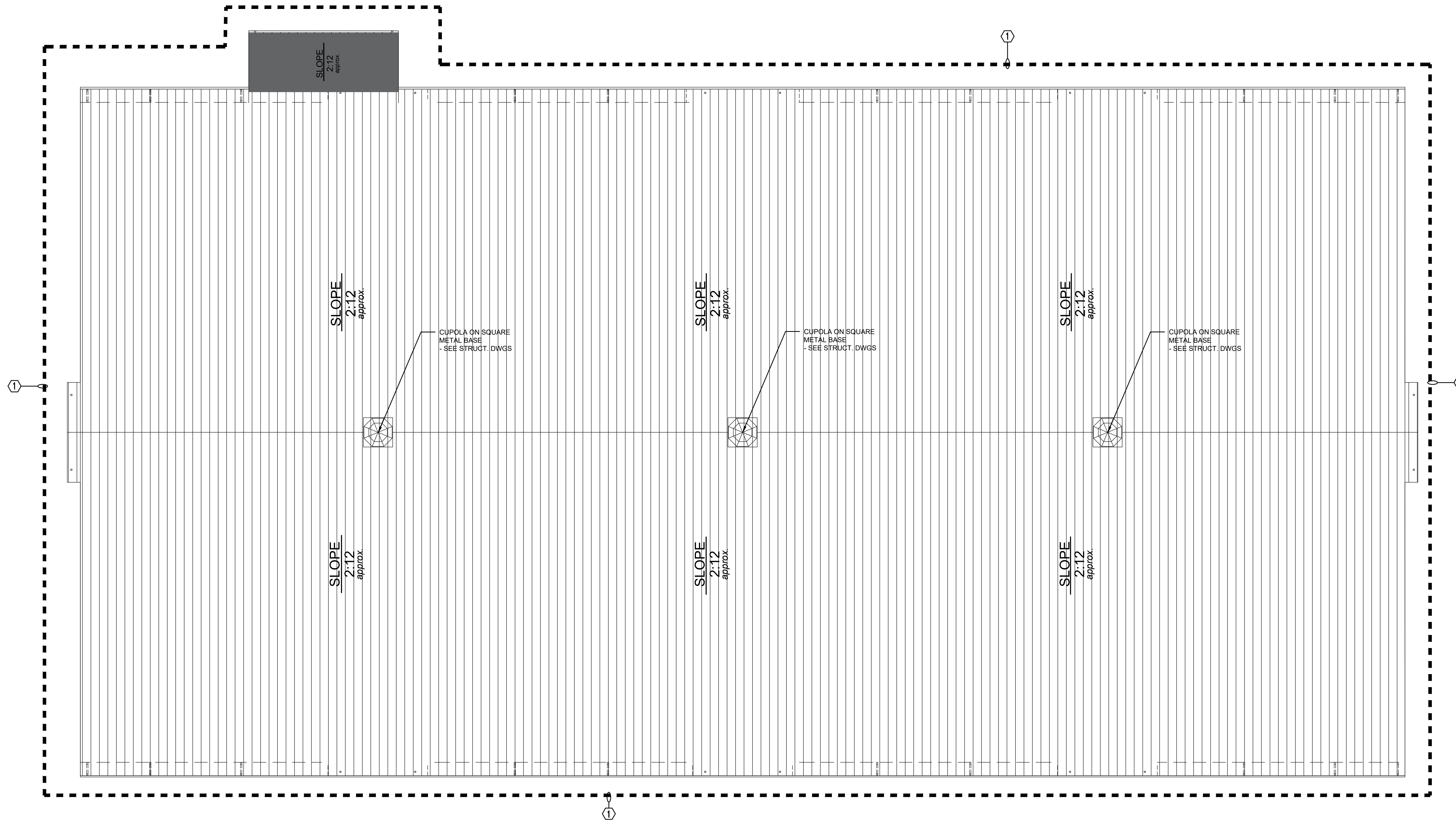
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GENERAL NOTES:

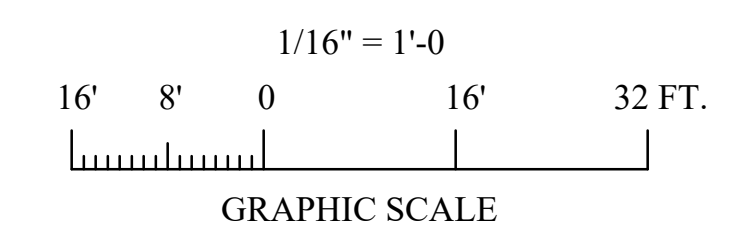
1. INSTALL A COMPLETE LIGHTNING PROTECTION SYSTEM AT EQUAL-POTENTIAL GROUND BONDED TOGETHER AS ONE COMPLETE SYSTEM.
2. CONTRACTOR SHALL OBTAIN UL LABEL FOR LIGHTNING PROTECTION SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY TIME AND MATERIAL TO OBTAIN UL LABEL.
3. ALL DOWNLEAD CONDUCTORS SHALL BE CONCEALED. NO EXCEPTIONS.
4. ALUMINUM SYSTEM WILL BE ACCEPTED FOR THE LIGHTNING PROTECTION.

SHEET NOTES:

- ① PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM FOR THE ENTIRE BUILDING. LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH NEC AND NFPA 780. THE CONTRACTOR SHALL FURNISH AN UL MASTER LABEL FOR THE COMPLETE LIGHTNING PROTECTION SYSTEM PRIOR TO FINAL ACCEPTANCE OF THE FACILITY. CONTRACTOR WILL HAVE TO MEET THE PERFORMANCE SPECIFICATION.



1 ROOF PLAN - LIGHTNING PROTECTION
SCALE: 1/16" = 1'-0"



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SHEET TITLE : ROOF PLAN - LIGHTNING PROTECTION

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LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER NUMBER AND EQUALS	VOLTAGE	MOUNTING	LAMP TYPE	LAMP QUANTITY	DESCRIPTION
A	METALLUX NO. 58M-75RFL-12V-1/2"X3"X3"X3" OR EQUALS BY MUSCO OR HUBBELL	120VOLT	SUSPENDED	LED	70,871 LUMEN	LED ROUND HIGH BAY. PROVIDE WITH PFL LONG SAFETY CABLE. PROVIDE WITH WIRE GUARD. UL FOR DAMP LOCATION. ALTERNATE MANUFACTURER SHALL SUPPLY LIGHTING CALCULATIONS TO ENGINEER PRIOR TO BIDS FOR APPROVAL.
L02	HUBBELL NO. SP924-40M-L6-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	5,000 LUMEN	2'X2' 4000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
L04	HUBBELL NO. SP924-40M-L6-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	5,000 LUMEN	2'X2' 4000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
L06	HUBBELL NO. SP924-40M-L6-EDU OR EQUALS BY WILLIAMS OR COOPER	120VOLT	RECESSED	LED	6,000 LUMEN	2'X2' 6000-LUMEN FLAT PANEL FIXTURE. 0-10V DIMMING CAPABLE.
WP1	COOPER NO. GWC-SAZ-A-740-U-73-BY ARCH-10K OR PRIOR APPROVED EQUALS BY WILLIAMS OR HUBBELL	120VOLT	WALL	LED	9,500 LUMEN	DARK BRONZE EXTERIOR LED LIGHT. UL LISTED FOR WET LOCATIONS.
WP2	PROVIDE AN ALLOWANCE OF \$3,000 PER FIXTURE					
WALL PACK "WEM"	SERVERE NO. 2-V12G1-LD10-G-D-W4-WG OR PRIOR APPROVED EQUAL BY EMERGLITE, MCPHLEEN, OR PRESOLITE	120VOLT	WALL	LED	1,000 LUMEN	1000 LUMEN LED EMERGENCY WALL PACK PROVIDE WITH WEATHER PROOF ENCLOSURE. PROVIDE WITH WIRE GUARD.
EXIT SIGN COMBO "WXB"	SERVERE NO. GA-XYP26-1D-4K-2LD10-D-W4-WG (RED LETTERING) OR PRIOR APPROVED EQUAL BY EMERGLITE, MCPHLEEN, OR PRESOLITE	120VOLT	UNIVERSAL	LED	1,000 LUMEN	THERMOPLASTIC 1000 LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. RED LETTERING PROVIDE WITH WEATHER BATTERY. PROVIDE WIREGUARDS IN INDOOR PRACTICE FACILITY. PROVIDE WITH WEATHER PROOF ENCLOSURE.
EM WALL PACK	COMPASS NO. CULH1N05D - WIREGUARDS OR PRIOR APPROVED EQUAL BY EMERGLITE, MCPHLEEN, OR PRESOLITE	120VOLT	WALL	LED	1,000 LUMEN	1000 LUMEN LED EMERGENCY WALL PACK PROVIDE WITH WIREGUARDS.
EXIT SIGN COMBO "W"	DUAL-LITE NO. EVCHLUPW12-96L - WIREGUARDS (RED LETTERING) OR PRIOR APPROVED EQUAL BY EMERGLITE, MCPHLEEN, OR PRESOLITE	120VOLT	UNIVERSAL	LED	1,000 LUMEN	THERMOPLASTIC 1000 LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. RED LETTERING PROVIDE WITH WEATHER BATTERY. PROVIDE WIREGUARDS WHERE REQUIRED.

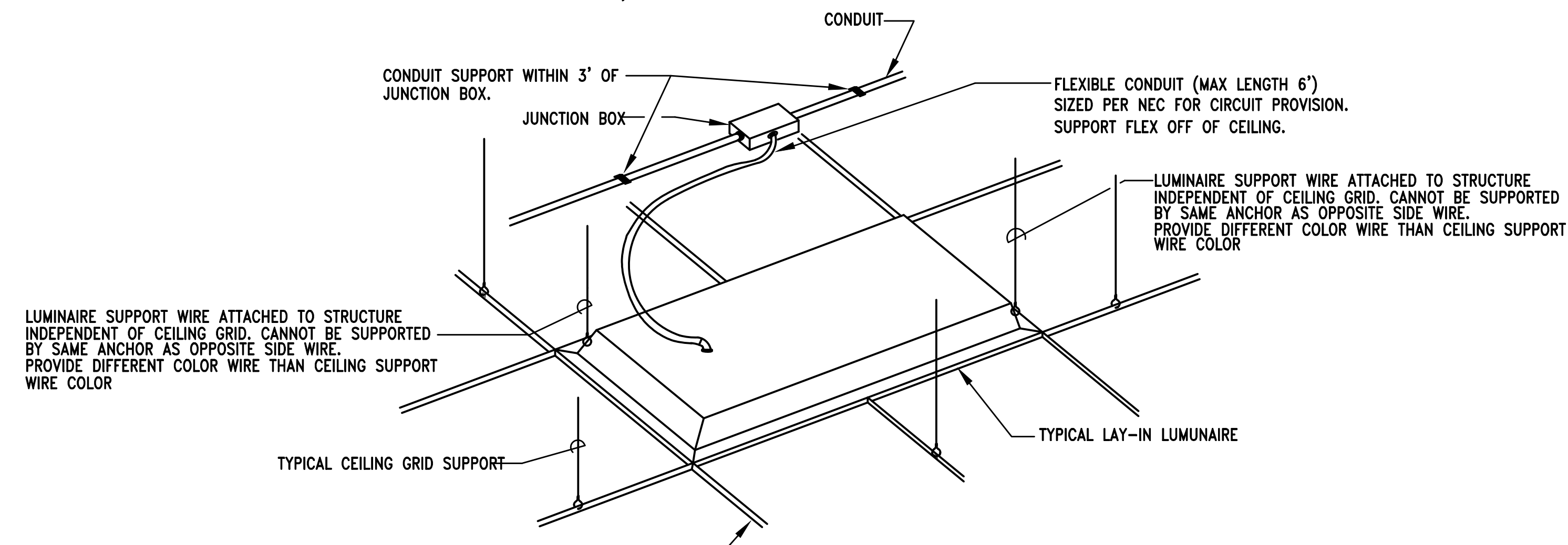
NOTES:
1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90 MINUTES. ALL EMERGENCY LIGHTS IN SAFE AREA SHALL BE CONNECTED TO THE BATTERY INVERTER FOR 180 MINUTES OF RUN TIME.
4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.
5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS.
7. LIGHTS SPECIFIED WILL BE USED AT BOTH 120V AND 277V CIRCUITS. PROVIDE UNIVERSAL TYPE VOLTAGE DRIVERS FOR ALL LIGHT FIXTURES. IF A SPECIFIC VOLTAGE IS REQUIRED, LIGHTING MANUFACTURER AND CONTRACTOR SHALL WORK TOGETHER TO PROVIDE THE REQUIRED VOLTAGES FOR EACH OF THE DIFFERENT FACILITIES.
ENGINEER WILL NOT BE RESPONSIBLE FOR THIS COORDINATION DURING SUBMITTALS. WE WILL ASSUME THE VOLTAGE SUBMITTED IS CORRECT.

LUMINAIRE NOTES:

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
7. ALL LED LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
8. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
9. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
10. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
11. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

NOTES:

1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SUPPORT WIRES TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



1 ES.1 NO SCALE
DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information
Energy Code: 90.1 (2013) Standard
Project Title: A NEW PRACTICE FACILITY FOR TROY UNIVERSITY
Project Type: New Construction
Construction Site: Owner/Agent: MCKEE & ASSOCIATES; Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLEROCK, AL.

A	B	C	D	E
Area Category	Floor Area (ft ²)	Allowed Watts / ft ²	Allowed Watts (B X C)	Actual Watts (D X E)
INDOOR PRACTICE (Gymnasium/In-line Skating Rink)	83,131	5.7	473,827	500

Proposed Interior Lighting Power
Table with columns: Fixture ID, Description, Lamp, Wattage, # of Fixtures, Total Proposed Watts. Total Proposed Watts = 701,2.

Interior Lighting PASS/ES: Design 20% 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 90.1 (2013) Standard requirements (COMcheck Version 4.1.5.1) and to comply with any applicable regulatory requirements listed in the Inspection Checklist.

Signature: Jason Tillery, 9/18/24

COMcheck Software Version 4.1.5.1
Exterior Lighting Compliance Certificate

Project Information
Energy Code: 90.1 (2013) Standard
Project Title: A NEW PRACTICE FACILITY FOR TROY UNIVERSITY
Project Type: New Construction
Construction Site: Owner/Agent: MCKEE & ASSOCIATES; Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLEROCK, AL.

A	B	C	D	E
Area/Surface Category	Quantity	Allowed Watts / Unit	Allowed Watts (B X C)	Actual Watts (D X E)
Walkway - 10 feet wide	1600 ft of	5.7	9120	1120

Proposed Exterior Lighting Power
Table with columns: Fixture ID, Description, Lamp, Wattage, # of Fixtures, Total Proposed Watts. Total Proposed Watts = 720.

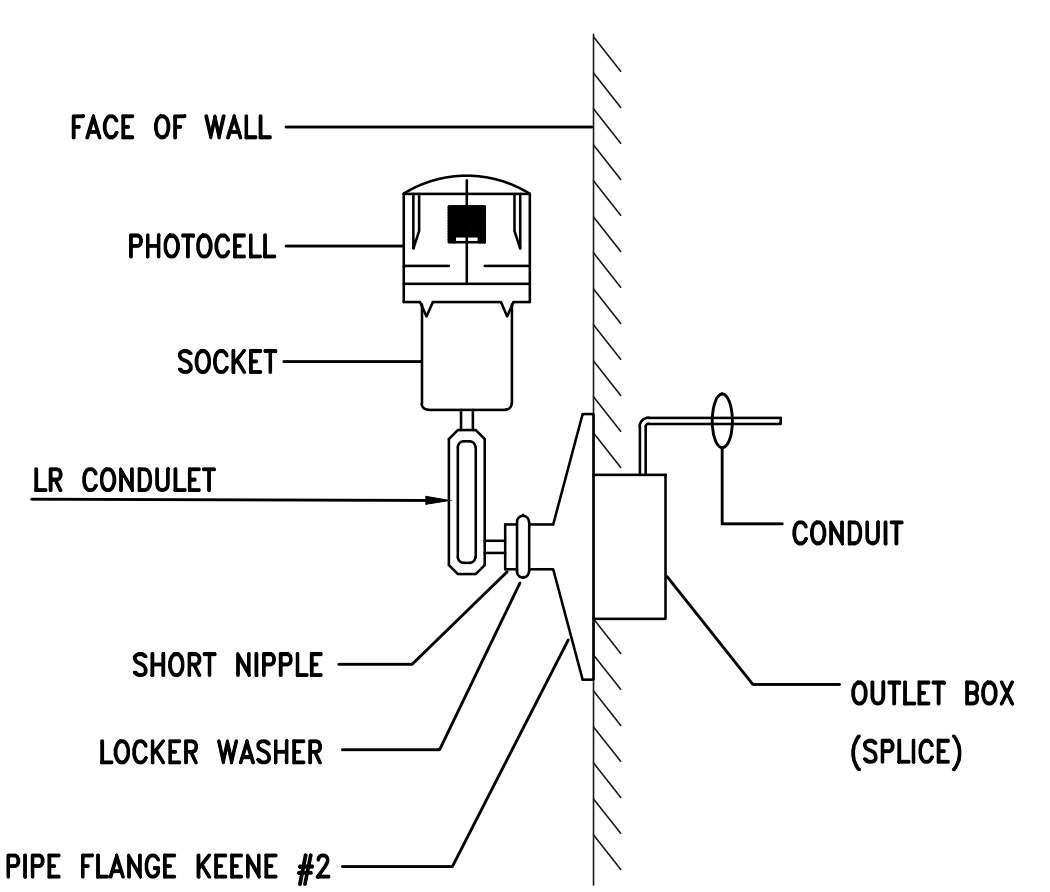
Exterior Lighting PASS/ES: Design 56% better than code.

Exterior Lighting Compliance Statement
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements (COMcheck Version 4.1.5.1) and to comply with any applicable regulatory requirements listed in the Inspection Checklist.

Signature: Jason Tillery, 9/18/24

NOTES

1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



2 ES.1 NO SCALE
DETAIL - INSTALLATION OF PHOTO-CELL

SHEET TITLE: LIGHTING SCHEDULE, DETAILS & NOTES

MCKEE JOB #: 22.339

DRAWN BY: J. TILLERY

DATE: 10.21.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14, 1200 Providence Park, Suite 200
Millbrook, AL 36054, Birmingham, AL 35242
Tel: 334.285.1273, GA#24-172

SHEET NO.: E5.1

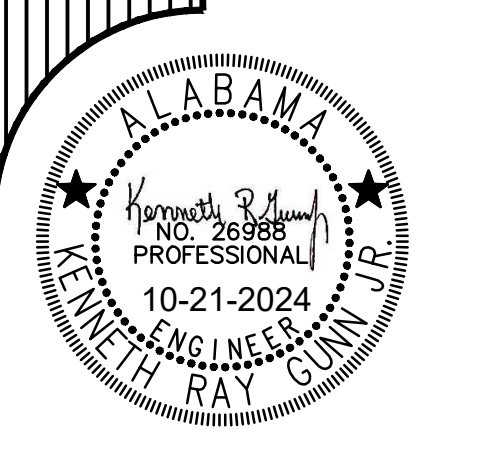
A NEW PRACTICE FACILITY

FOR TROY UNIVERSITY

TROY, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

831 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



PANEL - MP												
TYPE: 400 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
TX-A	13,030	11,830	11,730	70	1	2	225		32,000	30,000	27,348	PANEL LP1
					3	4						
RCH-A1	2,000			20	1	7	8	225				SPARE
WH-1		4,500		30	1	9	10					
SPARE				20	1	11	12					
SPARE				60		13	14	100				SPARE
					15	16						
					3	17	18					
SPARE				20	1	19	20					BUSSED SPACE
SPARE				20	1	21	22					BUSSED SPACE
SPARE				20	1	23	24					BUSSED SPACE
BUSSED SPACE				25	26							BUSSED SPACE
BUSSED SPACE				27	28							BUSSED SPACE
BUSSED SPACE				29	30							BUSSED SPACE
BUSSED SPACE				31	32							BUSSED SPACE
BUSSED SPACE				33	34							BUSSED SPACE
BUSSED SPACE				35	36							BUSSED SPACE
BUSSED SPACE				37	38							BUSSED SPACE
BUSSED SPACE				39	40							BUSSED SPACE
BUSSED SPACE				41	42							BUSSED SPACE
SUB TOTAL (VA)	15,030	16,330	11,730						32,000	30,000	27,348	

TOTAL LOAD PHASE A: 47,030 (VA)
TOTAL LOAD PHASE B: 46,330 (VA)
TOTAL LOAD PHASE C: 39,078 (VA)
TOTAL LOAD: 132,438 (VA) = 159 AMPS

NOTES:
1. PROVIDE TYPES THAT COORDINATES WITH LIGHTNING PROTECTION SYSTEM TO ALLOW THE LIGHTNING PROTECTION SYSTEM TO OBTAIN THE UL MASTER LABEL.
2. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING. SEE DETAIL.
3. PROVIDE ARC FAULT LABEL PER DETAIL.
4. PROVIDE ARC FAULT LABEL PER DETAIL.

PANEL - RP1												
TYPE: 150 AMP CIRCUIT BREAKER			AIC: 22,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
HAND DRYER	1,300			20	1	1	2	20	1	1,200		RECEPTACLES
RECEPTACLES		600		20	1	3	4	20	1	1,200		RECEPTACLES
HAND DRYER			1,300	20	1	5	6	20	1	1,200	1,200	RECEPTACLES
ODHP-A1	915			30		7	8	20	1	1,200		RECEPTACLES
		915		20	1	9	10	20	1	1,200		RECEPTACLES
ODHP-A2			915	20	1	11	12	20	1	1,200	1,200	RECEPTACLES
	915			20	1	13	14	20	1	1,200		RECEPTACLES
ODHP-A3		915		20	1	15	16	20	1	1,200	1,200	RECEPTACLES
			915	20	1	17	18	20	1	1,200	1,200	RECEPTACLES
RECEPTACLES	1,200			20	1	19	20	20	1	1,200		RECEPTACLES
RECEPTACLES		1,200		20	1	21	22	20	1	1,200		RECEPTACLES
RECEPTACLES			1,200	20	1	23	24	20	1	1,200	1,200	RECEPTACLES
RECEPTACLES	1,200			20	1	25	26	20	1	1,200		RECEPTACLES
RECEPTACLES		1,200		20	1	27	28	20	1	1,200		RECEPTACLES
TROY LOGO			1,000	20	1	29	30	20	1		600	CP-1 & TC-1
TROY LOGO	1,000			20	1	31	32	20	1			SPARE
TROY LOGO		1,000		20	1	33	34	20	1			SPARE
TROY LOGO			1,000	20	1	35	36	20	1			SPARE
LCP	500			20	1	37	38	20	1			SPARE
SPARE				20	1	39	40	20	1			SPARE
SPARE				20	1	41	42	20	1			SPARE
SUB TOTAL (VA)	7,030	5,830	6,330							6,000	6,000	5,400

TOTAL LOAD PHASE A: 13,030 (VA)
TOTAL LOAD PHASE B: 11,830 (VA)
TOTAL LOAD PHASE C: 11,730 (VA)
TOTAL LOAD: 36,590 (VA) = 102 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.

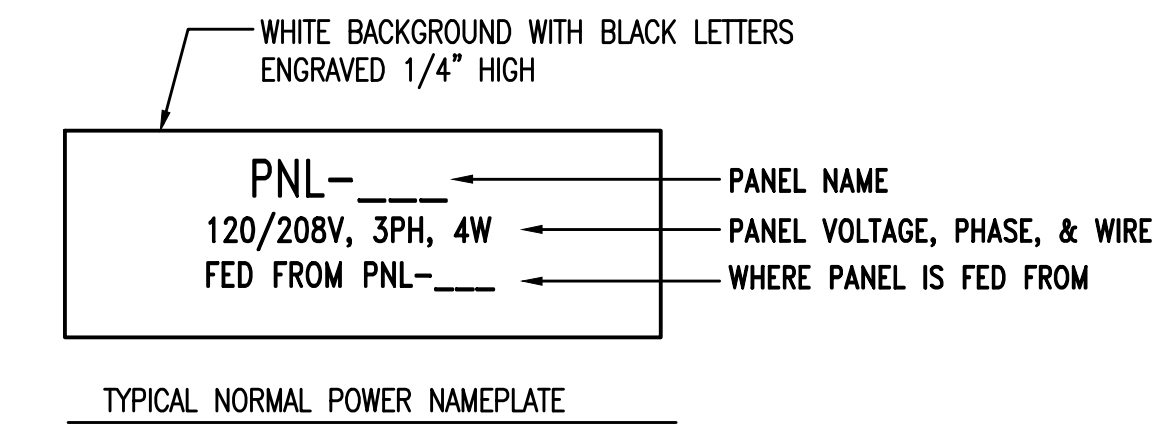
PANELBOARD NOTES:

- PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
- ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
- PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
- FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
- ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
- PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
- EACH PANELBOARD SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
- COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.
- MANUFACTURER THAT WILL BE PROVIDING PANELBOARDS ON THIS PROJECT SHALL BE RESPONSIBLE FOR PERFORMING A SHORT CIRCUIT ANALYSIS AND TIME-CURRENT COORDINATION (TCC) STUDY, WHICH DEMONSTRATES THAT THE UPSTREAM OVERCURRENT PROTECTIVE DEVICE NEAREST TO THE FAULT LOCATION WILL OPERATE BEFORE OVERCURRENT PROTECTIVE DEVICES WHICH ARE FURTHER UPSTREAM (I.E. SELECTIVE COORDINATION). INCLUDE COORDINATION STUDY IN THE SHOP DRAWING PACKAGE FOR THE PANELBOARDS FOR REVIEW BY THE ENGINEER OF RECORD. AIC RATINGS MAY BE LOWERED BASED ON STUDY.

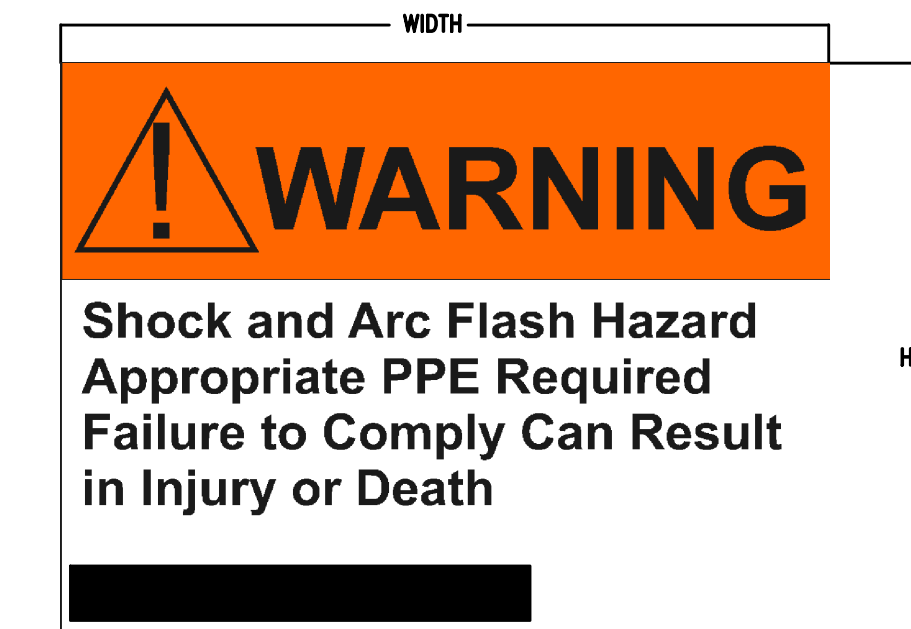
PANEL - LP1												
TYPE: 225 AMP MAIN LUG			AIC: 65,000 AMPERES			MOUNTED: SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
HIGH BAY LIGHTS	3,000			20	2	3	2	20	2	3,000	3,000	HIGH BAY LIGHTS
HIGH BAY LIGHTS		3,000		20	2	5	6	20	2	3,000	3,000	HIGH BAY LIGHTS
HIGH BAY LIGHTS	3,000			20	2	7	8	20	2	3,000		HIGH BAY LIGHTS
HIGH BAY LIGHTS		3,000		20	2	9	10	20	2	3,000	3,000	HIGH BAY LIGHTS
HIGH BAY LIGHTS	3,000			20	2	11	12	20	2	3,000	3,000	HIGH BAY LIGHTS
HIGH BAY LIGHTS		3,000		20	2	13	14	20	2	3,000		HIGH BAY LIGHTS
HIGH BAY LIGHTS	3,000			20	2	15	16	20	2			SPARE
HIGH BAY LIGHTS		3,000		20	2	17	18	20	2			SPARE
HIGH BAY LIGHTS	3,000			20	2	19	20	20	2			SPARE
HIGH BAY LIGHTS		3,000		20	2	21	22	20	2			SPARE
HIGH BAY LIGHTS	3,000			20	2	23	24	20	2			EXTERIOR LIGHTS
HIGH BAY LIGHTS		3,000		20	2	25	26	20	1	2,000		EXTERIOR LIGHTS
HIGH BAY LIGHTS	3,000			20	2	27	28	20	1			EMERGENCY LIGHTS
HIGH BAY LIGHTS		3,000		20	2	29	30	20	1		2,000	EXTERIOR LIGHTS
HIGH BAY LIGHTS	3,000			20	2	31	32	20	1			SPARE
HIGH BAY LIGHTS		3,000		20	2	33	34	20	1			SPARE
HIGH BAY LIGHTS	3,000			20	2	35	36	20	1			SPARE
HIGH BAY LIGHTS		3,000		20	2	37	38	20	1			BUSSED SPACE
LIGHTING			1,348	20	1	41	42					BUSSED SPACE
SUB TOTAL (VA)	21,000	21,000	19,348							11,000	9,000	8,000

TOTAL LOAD PHASE A: 32,000 (VA)
TOTAL LOAD PHASE B: 30,000 (VA)
TOTAL LOAD PHASE C: 27,348 (VA)
TOTAL LOAD: 89,348 (VA) = 108 AMPS

NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE ARC FAULT LABEL PER DETAIL.



1
ES.2
DETAIL - TYPICAL PANELBOARD NAMEPLATE
NO SCALE



- NOTES:
- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
 - THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
 - THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
 - THE SIZE OF THE LABEL SHALL BE:
EQUIPMENT TYPE HEIGHT WIDTH
INDOOR 4" 6"
OUTDOOR 4" 6"

2
ES.2
ARC FLASH WARNING LABELS
NO SCALE

SHEET TITLE : PANELBOARD SCHEDULE, DETAILS & NOTES

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

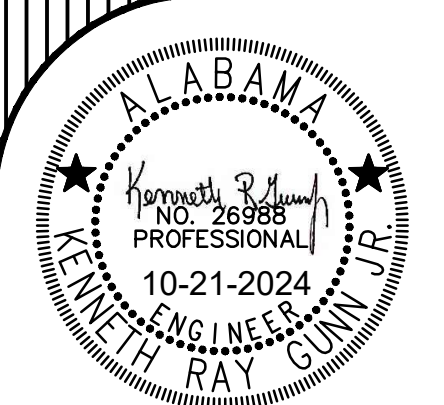
GA Gunn & Associates, P.C.
Consulting Engineers
3102 Highway 14 1200 Providence Park, Suite 200
Millbrook, AL 36054 Birmingham, AL 35242
Tel: 334.285.1273 GA#24-172

SHEET NO. : E5.2

A NEW PRACTICE FACILITY

FOR
TROY UNIVERSITY
TROY, ALABAMA

MCKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET • MONTGOMERY, ALABAMA 36104 (334) 834-9933



POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AN AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

A NEW PRACTICE FACILITY
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DRY TYPE TRANSFORMER SCHEDULE						
MARK	KVA	VOLTAGE		°C RISE	K FACTOR	NOTES
		PRIMARY	SECONDARY			
TX-A	45	480 V. DELTA 3 PH., 3 W.	208Y/120 V. 3 PH., 4 W.	150	1	⑥

POWER RISER DIAGRAM NOTES:

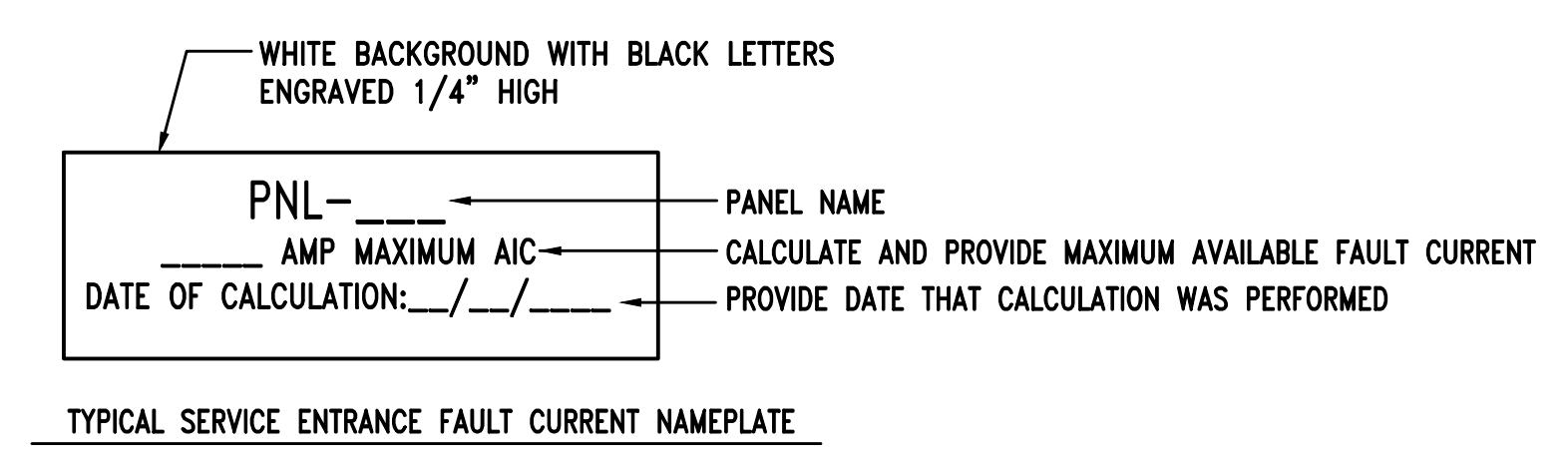
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASES ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH 1" CHAMFER FOR ALL FLOOR MOUNTED TRANSFORMERS AND SWITCHBOARDS.
6. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.2 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
7. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
8. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
9. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

SHEET NOTES:

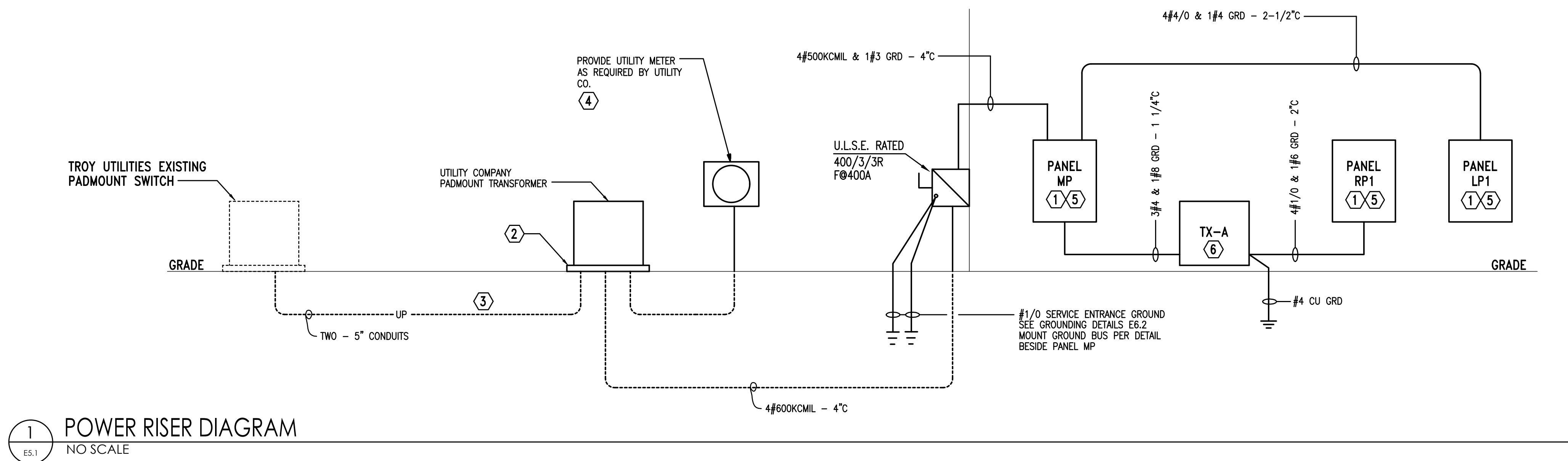
- ① FEEDER CIRCUIT SHALL BE INSTALLED UNDERGROUND BELOW SLAB.
- ② INSTALL CONCRETE PAD FOR PADMOUNT TRANSFORMER AS DIRECTED BY UTILITY COMPANY.
- ③ INSTALL UNDERGROUND PRIMARY CONDUITS AS INDICATED ON THE SITE ELECTRICAL PLAN.
- ④ INSTALL A MINIMUM 1-1/4" CONDUIT FROM THE SECONDARY CONNECTION COMPARTMENT OF THE PADMOUNT TRANSFORMER TO THE METER BASE. VERIFY THE EXACT CONDUIT SIZE, TERMINATION POINTS, AND ROUTING WITH APCO PRIOR TO ROUGH-IN. MOUNT METER BESIDE TRANSFORMER. PROVIDE SUPPORT PER APCO REQUIREMENTS FOR MOUNTING OF METER. IF APCO REQUIRES FEED THRU CT CABINET METER THEN PROVIDE SERVICE ENTRANCE FEEDER RATED THRU IT.
- ⑤ SEE PANELBOARD SCHEDULE FOR CIRCUIT BREAKER PROVISIONS.
- ⑥ CONTRACTOR SHALL SUSPEND DRY-TYPE TRANSFORMER ABOVE WALL MOUNTED PANELS. PROVIDE ALL STRUCTURE AS NEEDED TO SUSPEND THE DRY-TYPE TRANSFORMER.

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.



②
E6.1
NO SCALE
DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE



①
E6.1
NO SCALE
POWER RISER DIAGRAM

SHEET TITLE : POWER RISER DIAGRAMS, DETAILS & NOTES

MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

DATE : 10.21.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

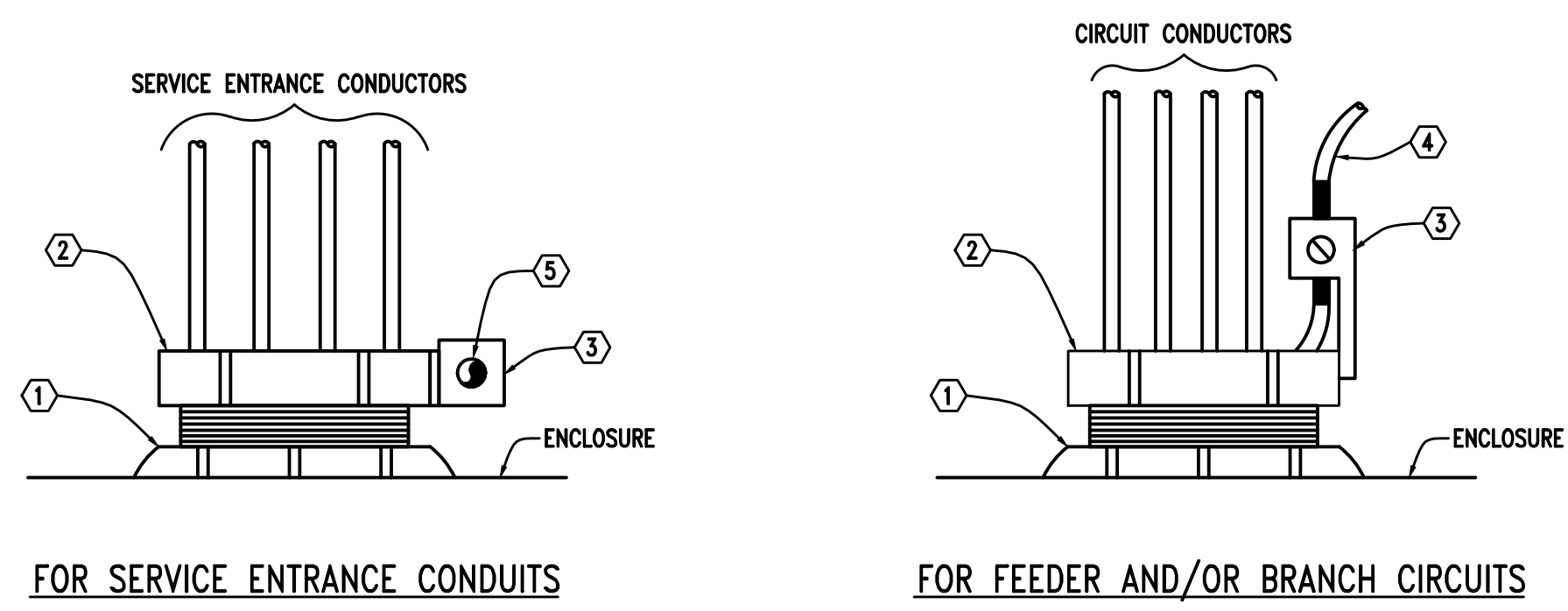
Gunn & Associates, P.C.
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3102 Highway 14
Millbrook, AL 36054
Tel: 334.285.1273

1200 Providence Park, Suite 200
Birmingham, AL 35242
GAI24-172

SHEET NO. : **E6.1**

DETAIL NOTES

- ① LOCK-NUT ASSEMBLIES
- ② METAL GROUNDING BUSHING
- ③ COPPER GROUND LUG
- ④ COPPER GROUND CONDUCTOR, REMOVE INSULATION AT BUSHING, RUN THROUGH BUSHING LUG AND BOND TO RACEWAY SYSTEM. DO NOT SPLICE OR TAP.
- ⑤ CONTINUOUS COPPER GROUND CONDUCTOR FROM GROUND BUS THROUGH EACH BUSHING, DO NOT SPLICE OR TAP.



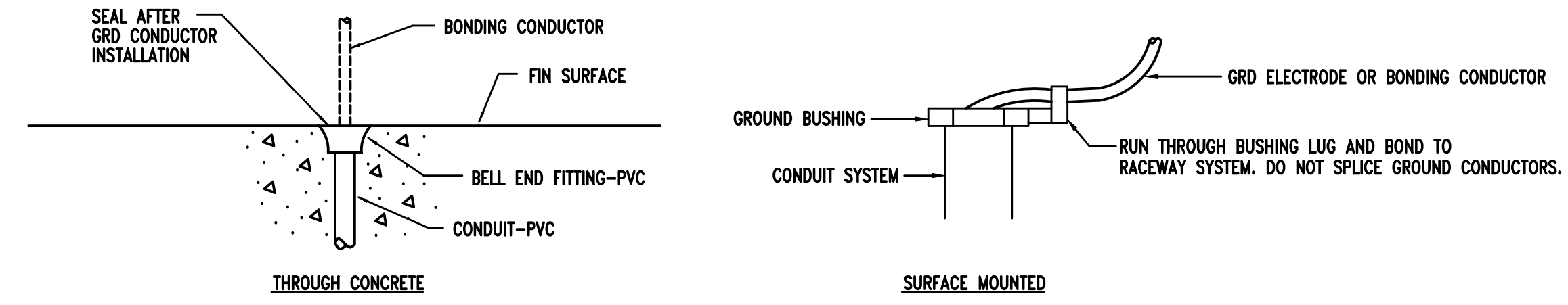
FOR SERVICE ENTRANCE CONDUITS

FOR FEEDER AND/OR BRANCH CIRCUITS

③
NO SCALE
DETAIL - TYPICAL GROUND BUSHING INSTALLATION

NOTES

- 1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
- 2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT, PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
- 3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT, PROVIDE BELL END FITTING ON EACH END AND SEAL. THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.



④
NO SCALE
DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM

GROUNDING AND BONDING INSTALLATION NOTES

- 1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
- 2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- 3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
 - a. PROVIDE A SOLIDLY GROUND SECONDARY SYSTEM.
 - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
 - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
 - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
 - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
 - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

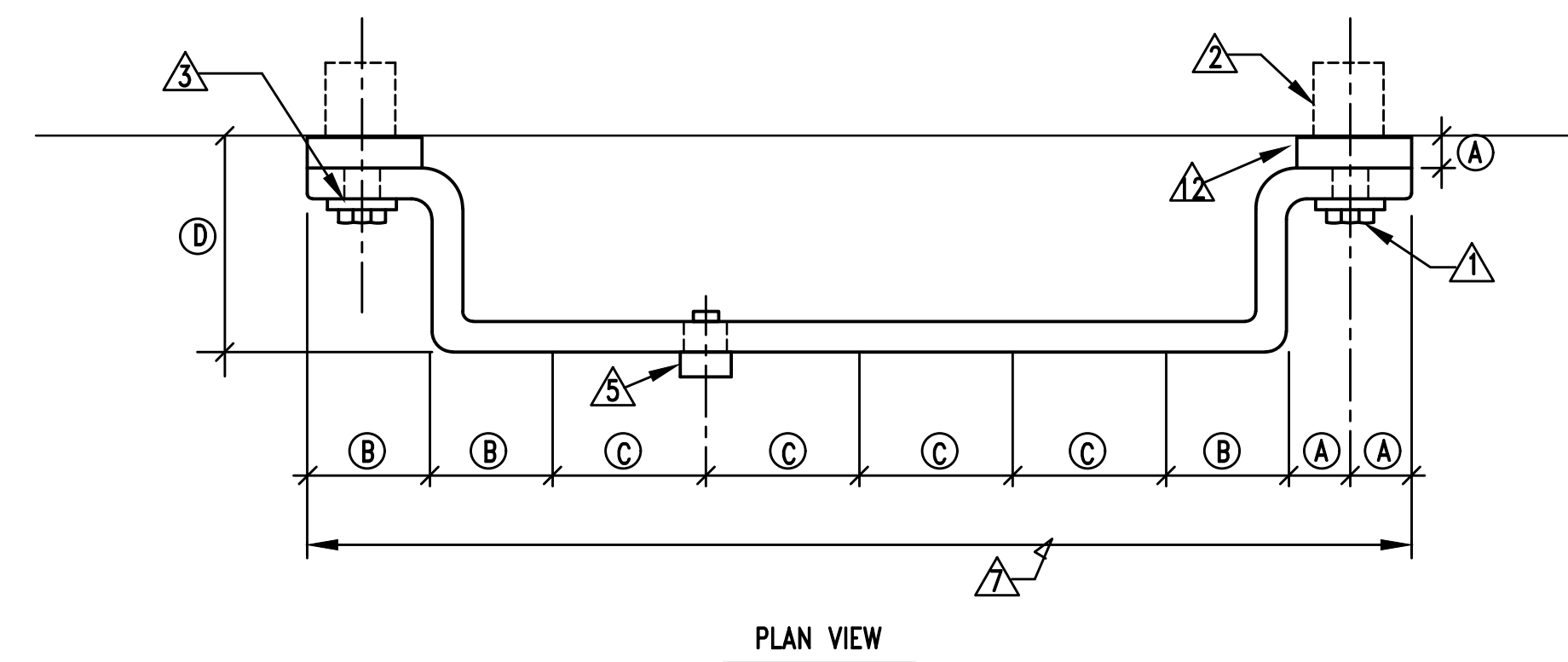
GROUND BUS NOTES

- 1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

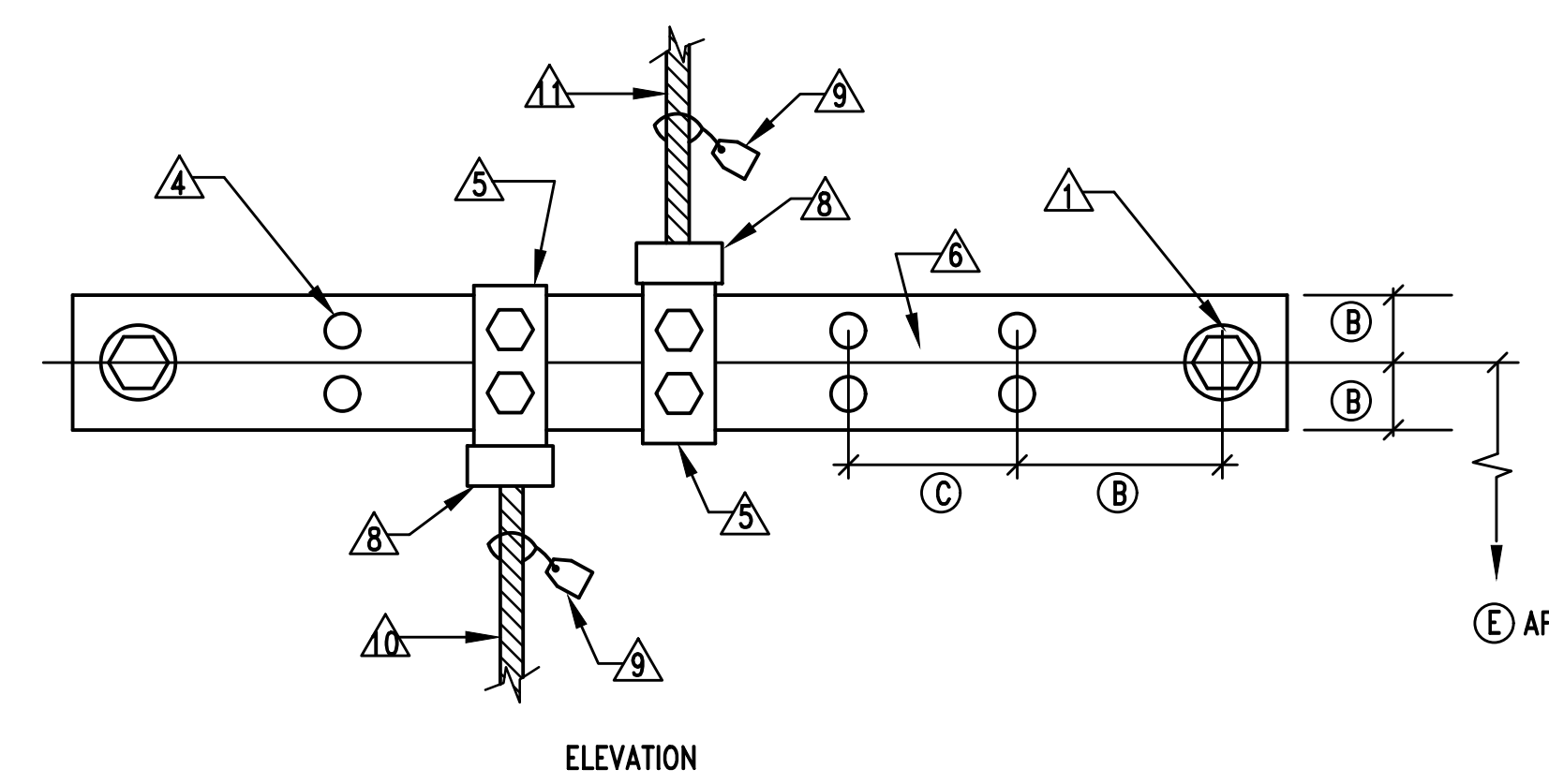
KEYED NOTES

- △ 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
- △ 1/2" (12.7mm) EXPANSION ANCHOR
- △ 9/16" (14.2875mm) HOLE IN BAR
- △ DRILLED DOUBLE CONNECTOR HOLES
- △ FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #2/0 (SINGLE LUGS ONLY)
- △ 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- △ LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- △ TYP CU GRD CONDUCTOR CONNECTION
- △ DESCRIPTION TAG, STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- △ TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- △ TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- △ INSULATED NON-CONDUCTIVE SPACER

DIMENSION BLOCK		
REF	ENGLISH	SI
A	1"	25.4mm
B	2"	50.8mm
C	2 1/2"	63.5mm
D	3"	76.2mm
E	1'-6"	457.2mm



PLAN VIEW

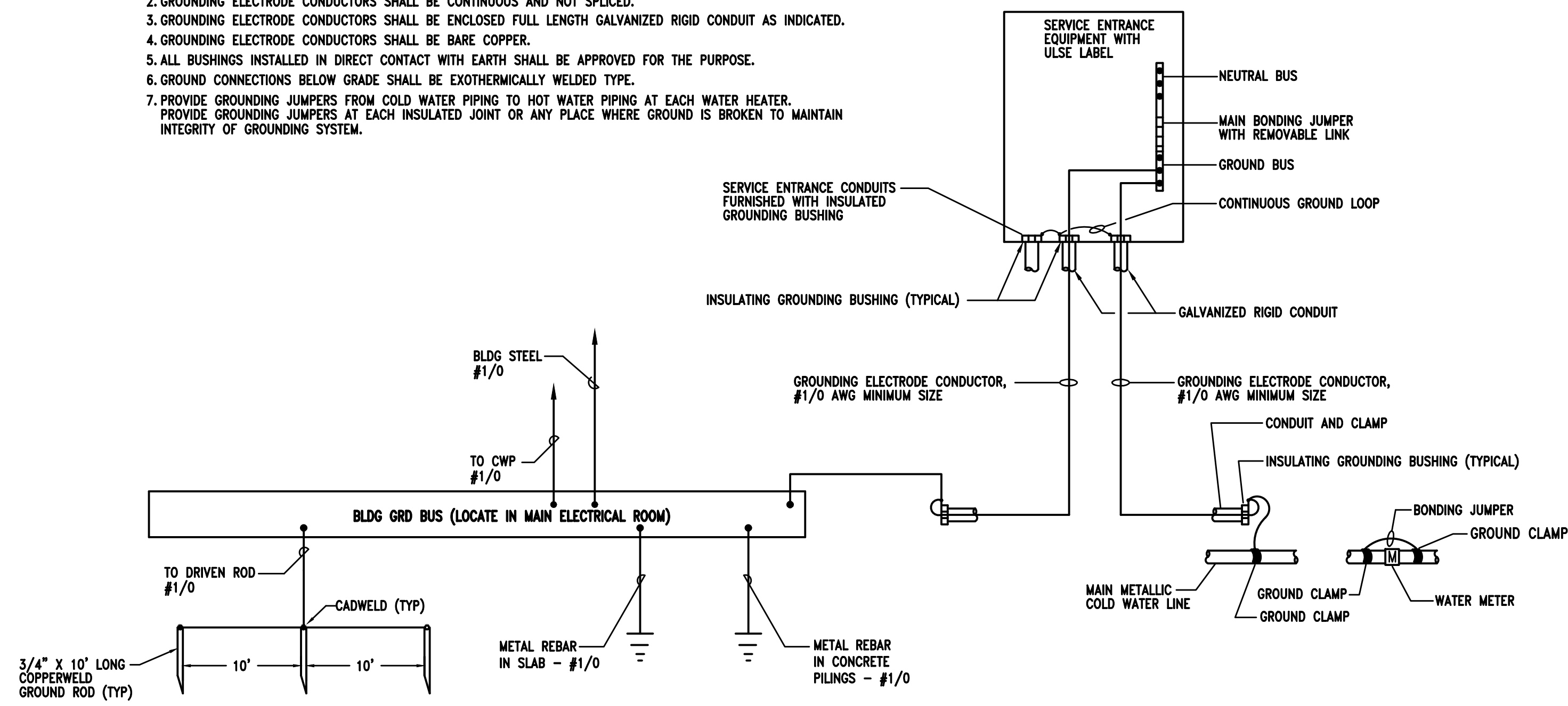


ELEVATION

④
NO SCALE
DETAIL - TYPICAL GROUND BUS INSTALLATION

NOTES

- 1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
- 2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
- 3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
- 4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
- 5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
- 6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
- 7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



②
NO SCALE
DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION

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TROY, ALABAMA

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MCKEE JOB # : 22.339

DRAWN BY : J. TILLERY

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REVISED DATE :

REVISED DATE :

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