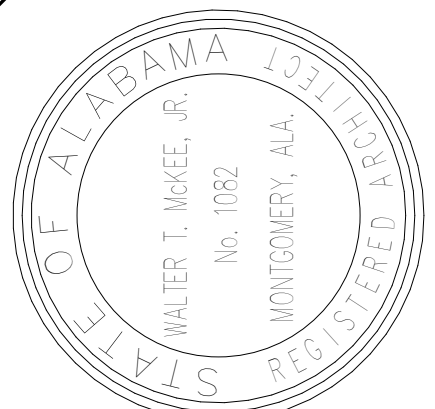


# A NEW ADDITION AT BREWER HIGH SCHOOL AT Albert P. Brewer High School, Alabama Campus FOR THE **MORGAN COUNTY BOARD OF EDUCATION** DECATUR, ALABAMA

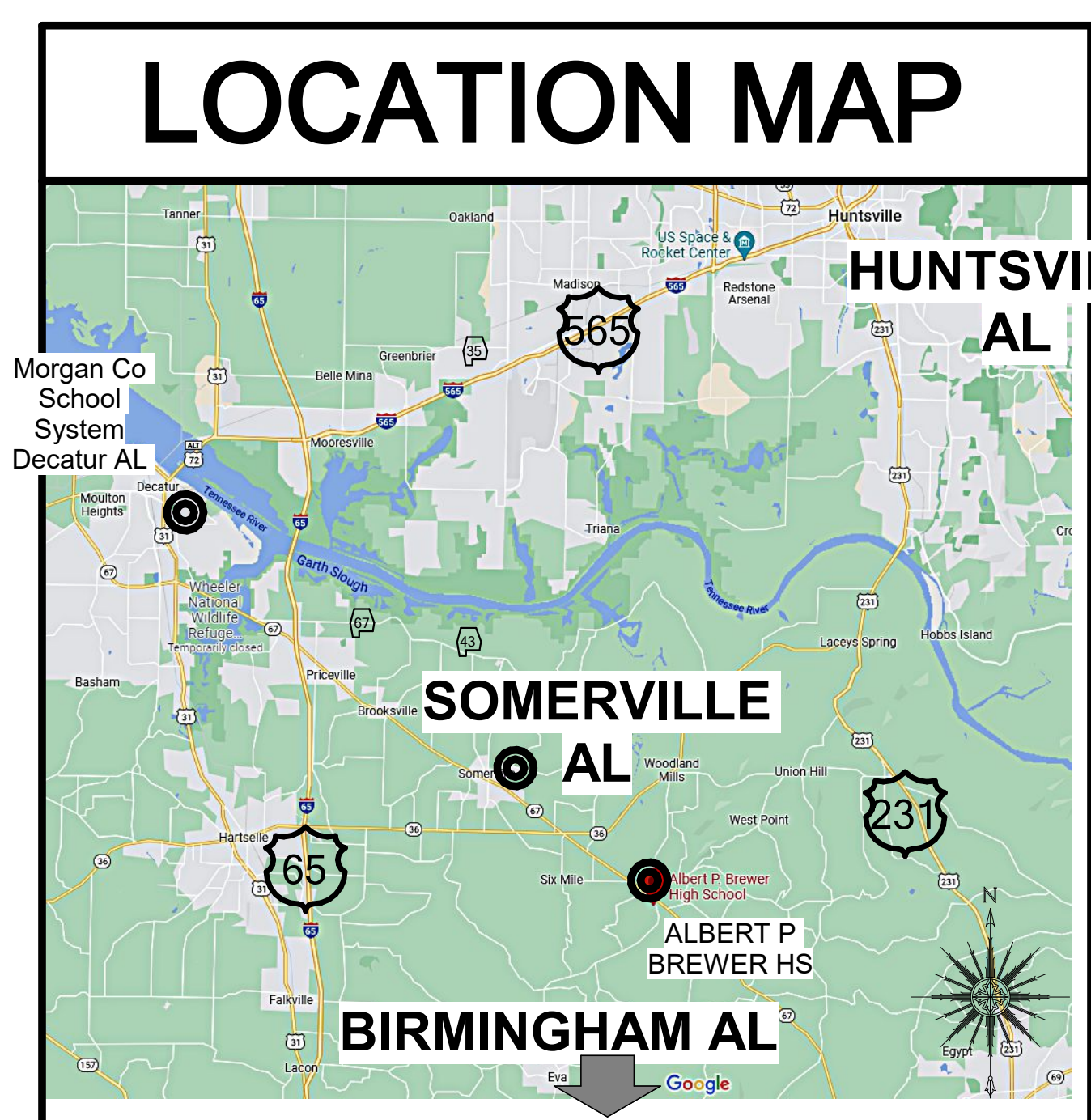
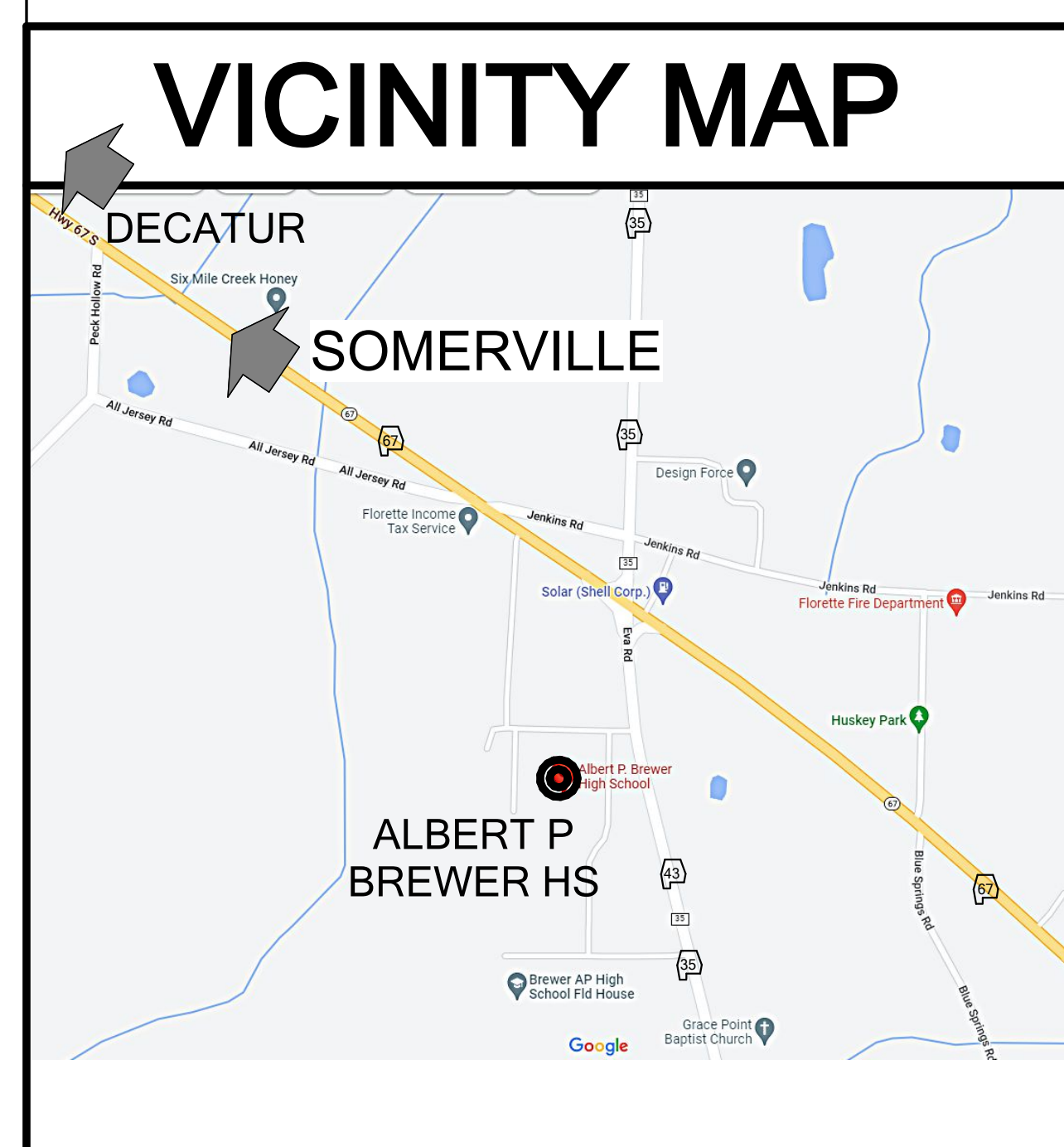
A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9933



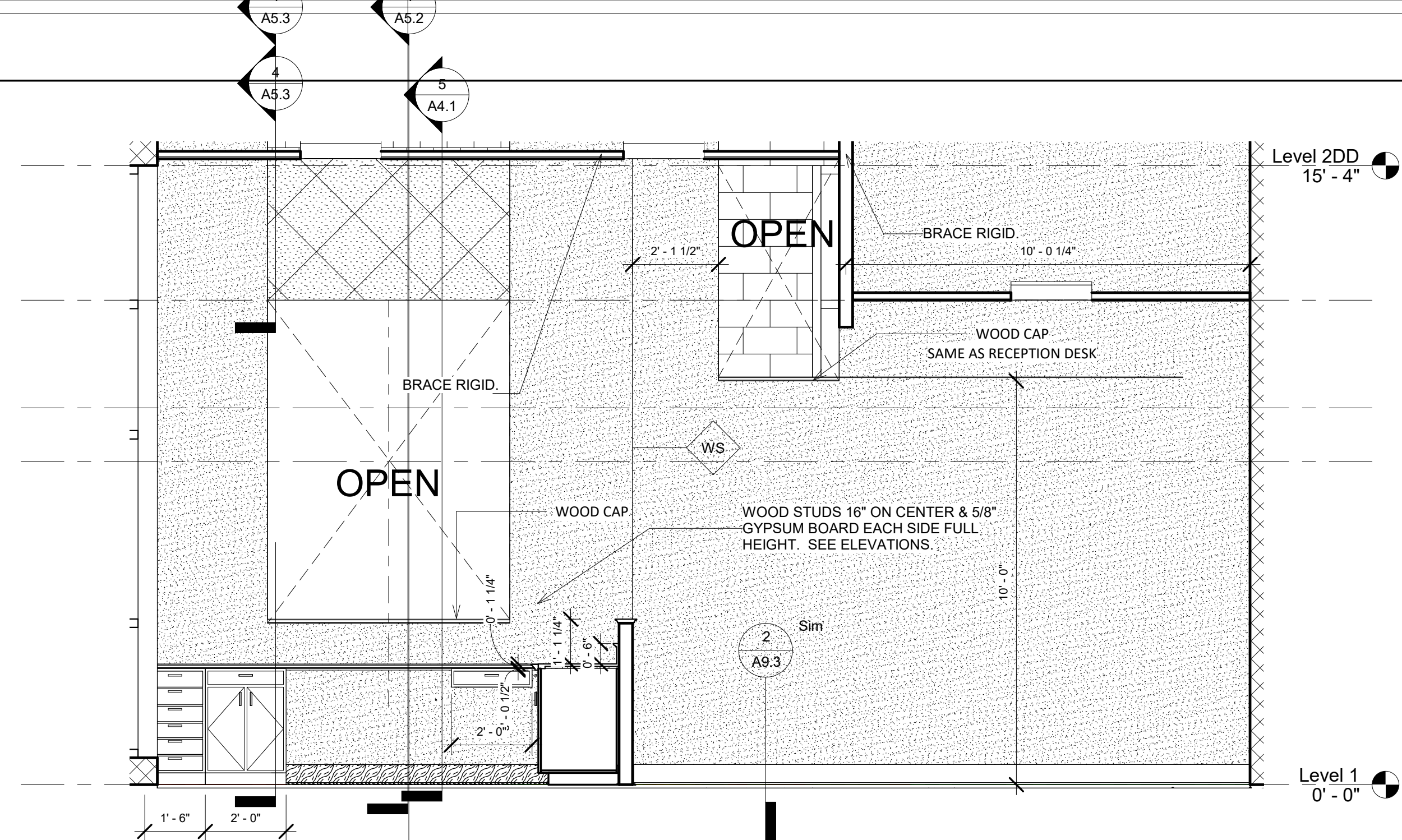
## INDEX TO DRAWINGS

ARCHITECTURAL	CIVIL	STRUCTURAL	MECHANICAL/PLUMBING	ELECTRICAL																																																																																																																																				
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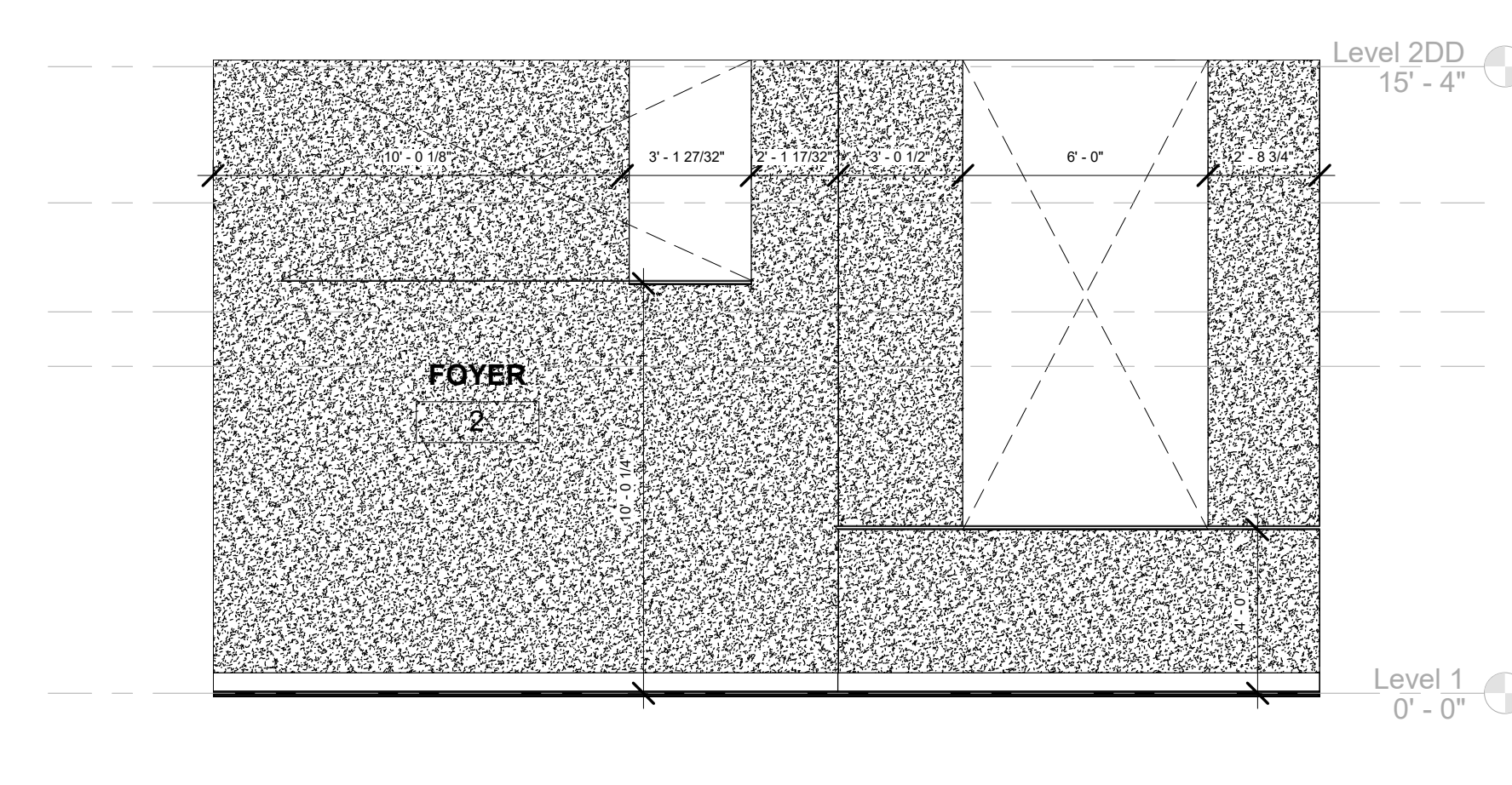


CONTACTS		
OWNER	CIVIL	ELECTRICAL
<p>Morgan County Board of Education 235 Highway 67 South Decatur, AL 35603-5438</p>	<p>Johnson &amp; Associates Nathan G. Johnson, PE, LS Principal Engineer &amp; Land Surveyor 1218 Church Street Huntsville, AL 35801 (256) 533-7331 work (256) 797-8729 cell</p>	<p>Gunn and Associates 3102 AL-14 Millbrook, AL 36054 Phone: (334) 285-1273</p>
ARCHITECTURAL	STRUCTURAL	MECHANICAL/PLUMBING
<p>McKee and Associates 631 S Hull St. Montgomery, AL 36104 Phone: (334) 834-9933</p>	<p>Blackburn Daniels O'Barr Inc 8805 Co Rd 40 Lowndesboro, AL 36752 Phone: (334) 265-0206</p>	<p>Zgouvas Eiring &amp; Associates 800 S McDonough St # 200, Montgomery, AL 36104 Phone: (334) 263-4406</p>

SHEET TITLE : COVER SHEET  
JOB NO. : 22-133  
DRAWN BY : CPBIII  
ISSUE DATE : 7-1-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **A1.0**

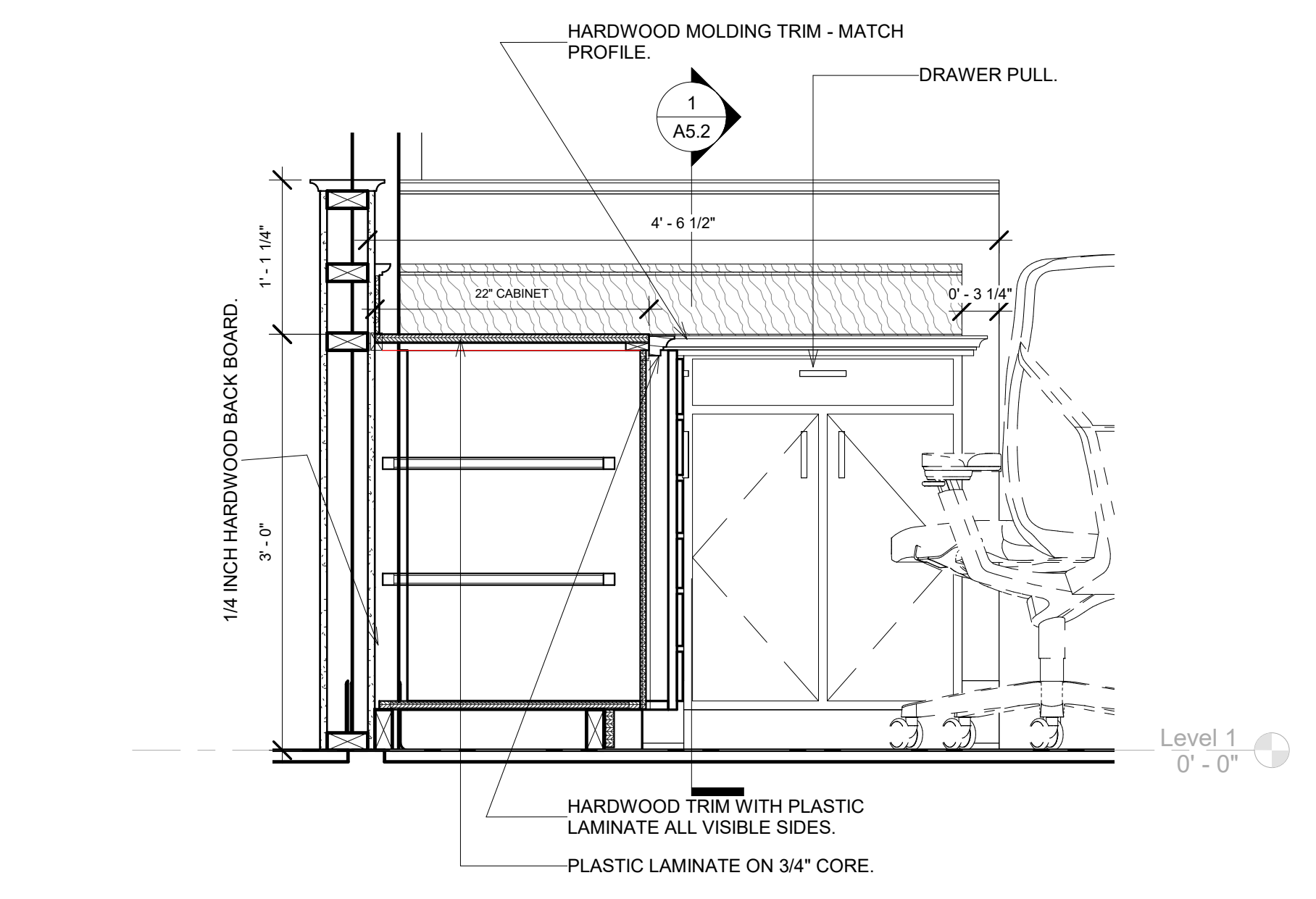


4 RECEPTION DESK 1  
3/8" = 1'-0"

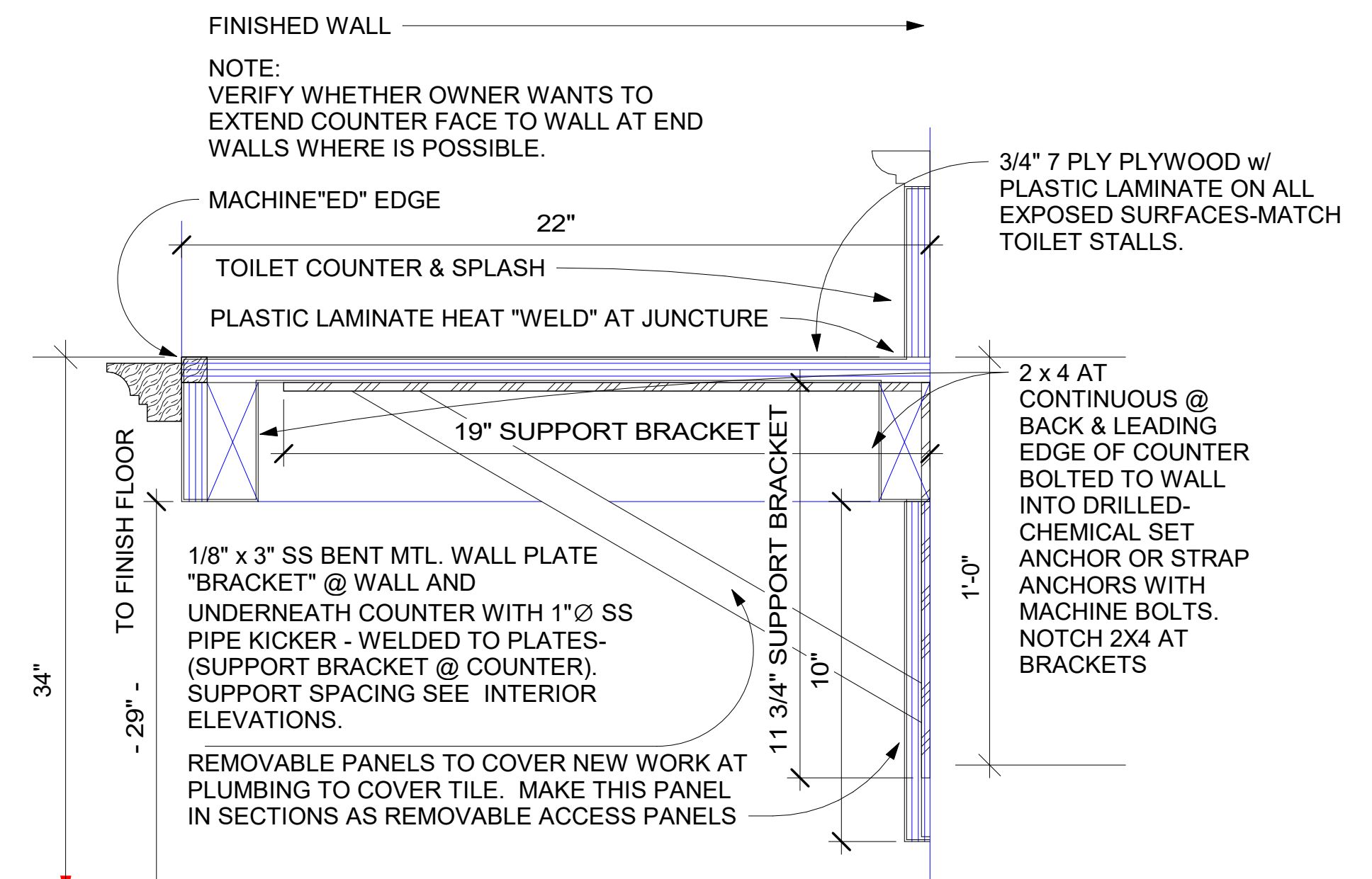


7 Elevation 4 - A Front Reception Desk  
1/4" = 1'-0"

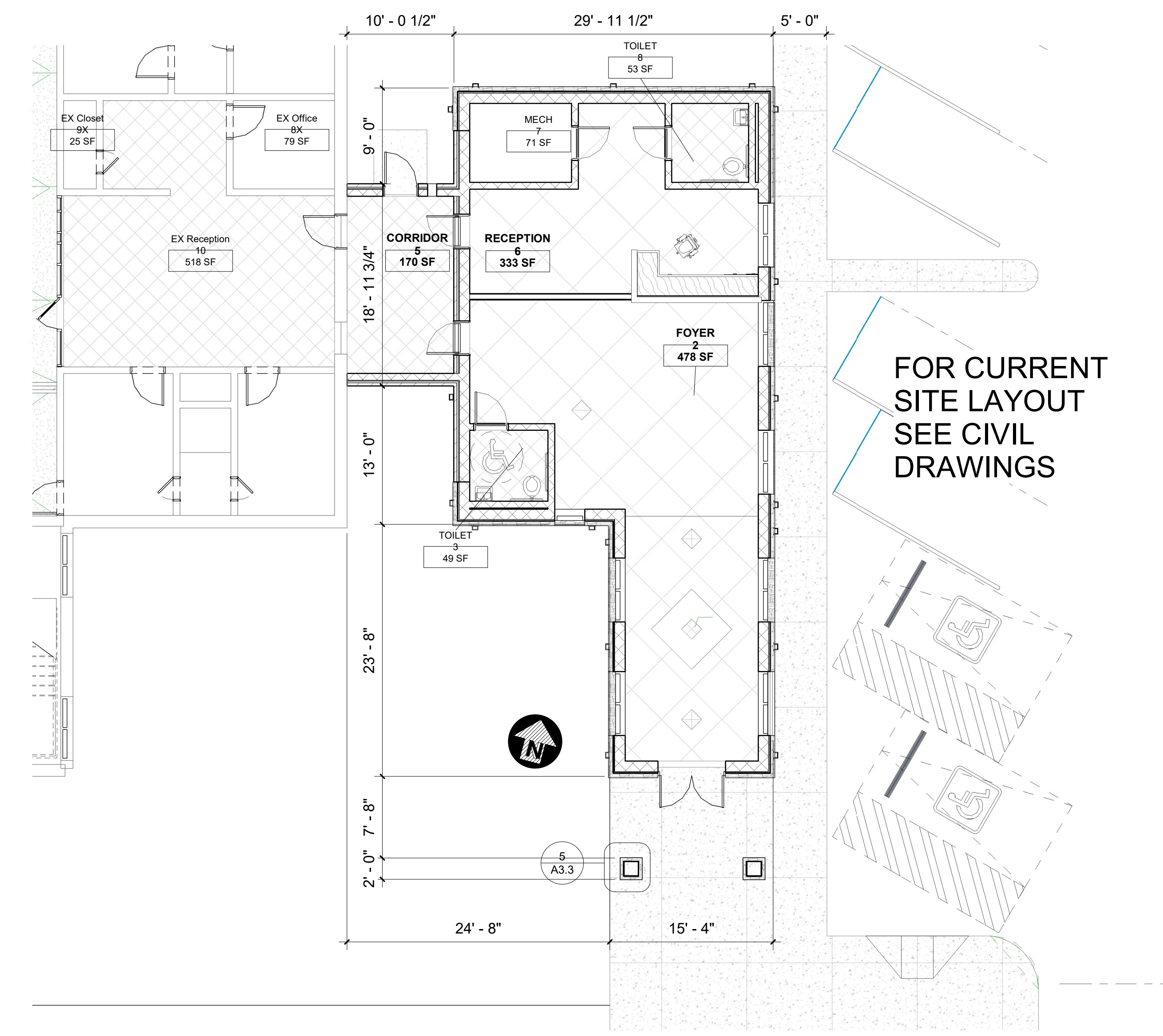
ROOM SCHEDULE					
Number	Name	Floor Finish	Base Finish	Wall Finish	Comments
1	ENTRY/LOBBY	LVT	RB	PAINT	ACCENT S @ FLOOR
2	FOYER	LVT	RB	PAINT	ACCENT S @ FLOOR
3	TOILET	LVT	RB	PAINT	
4					NOT USED
5	CORRIDOR	LVT	RB	PAINT	
6	RECEPTION	LVT	RB	PAINT	
7	MECH	SEALED CONCRETE	PAINT	PAINT	
8	TOILET	LVT	RB	PAINT	
10	EX Reception	LVT	RB	PAINT	



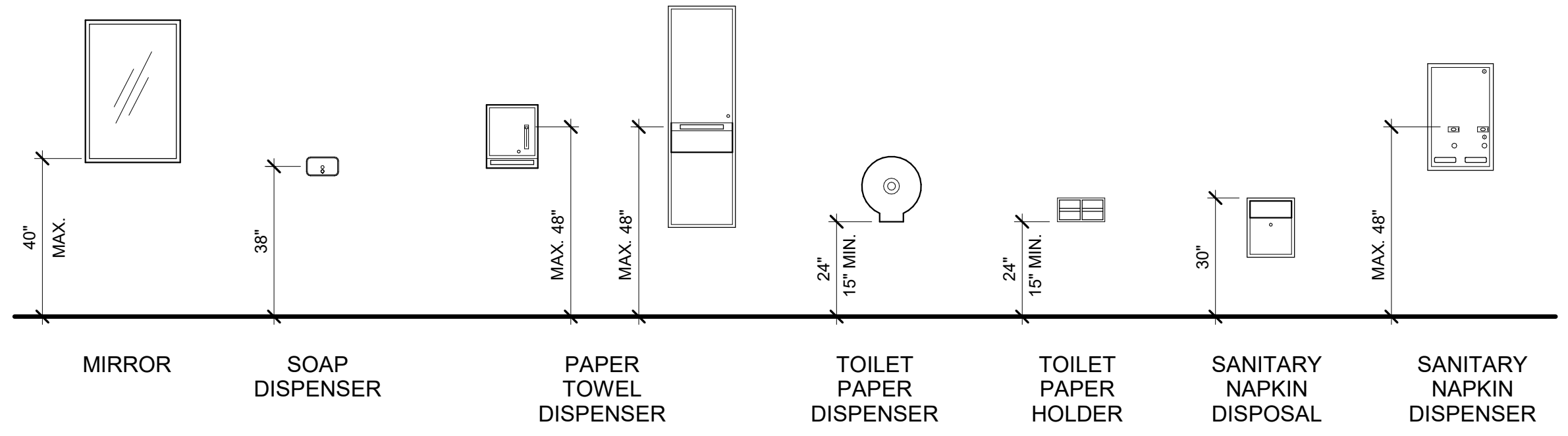
5 Section 28 Reception  
1" = 1'-0"



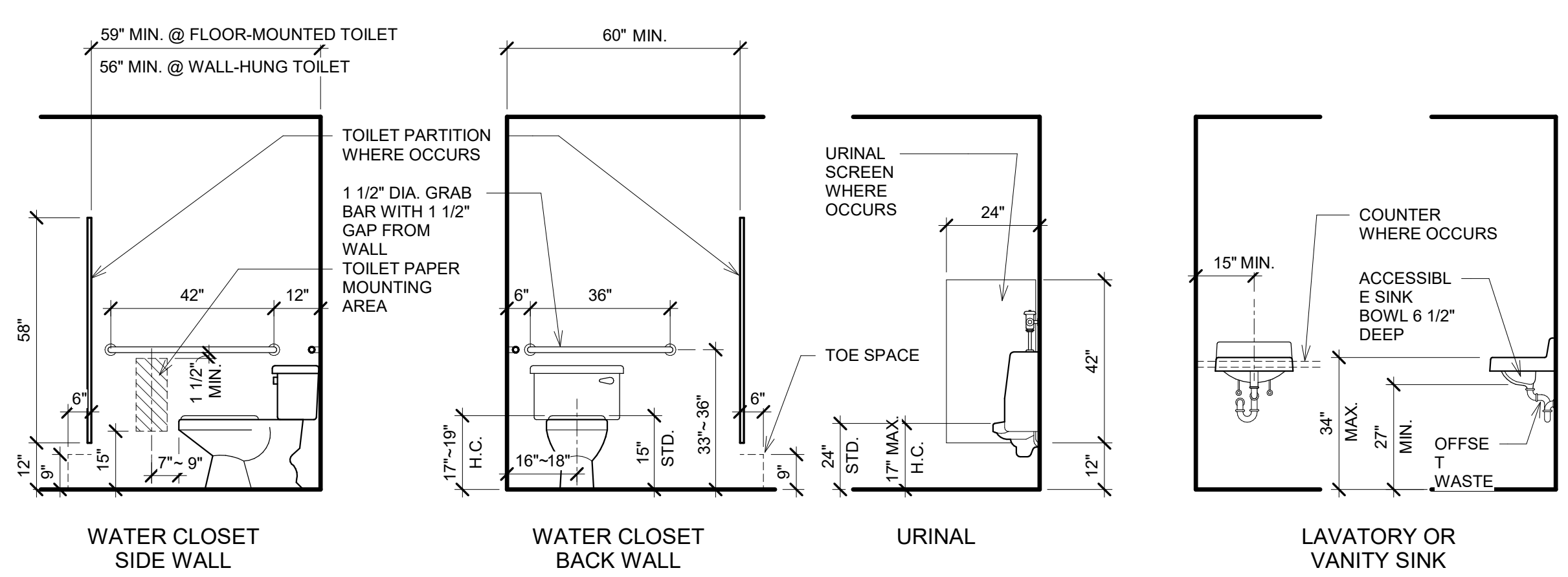
6 RECEPTION COUNTER  
3" = 1'-0"



1 Level 1  
1/8" = 1'-0"

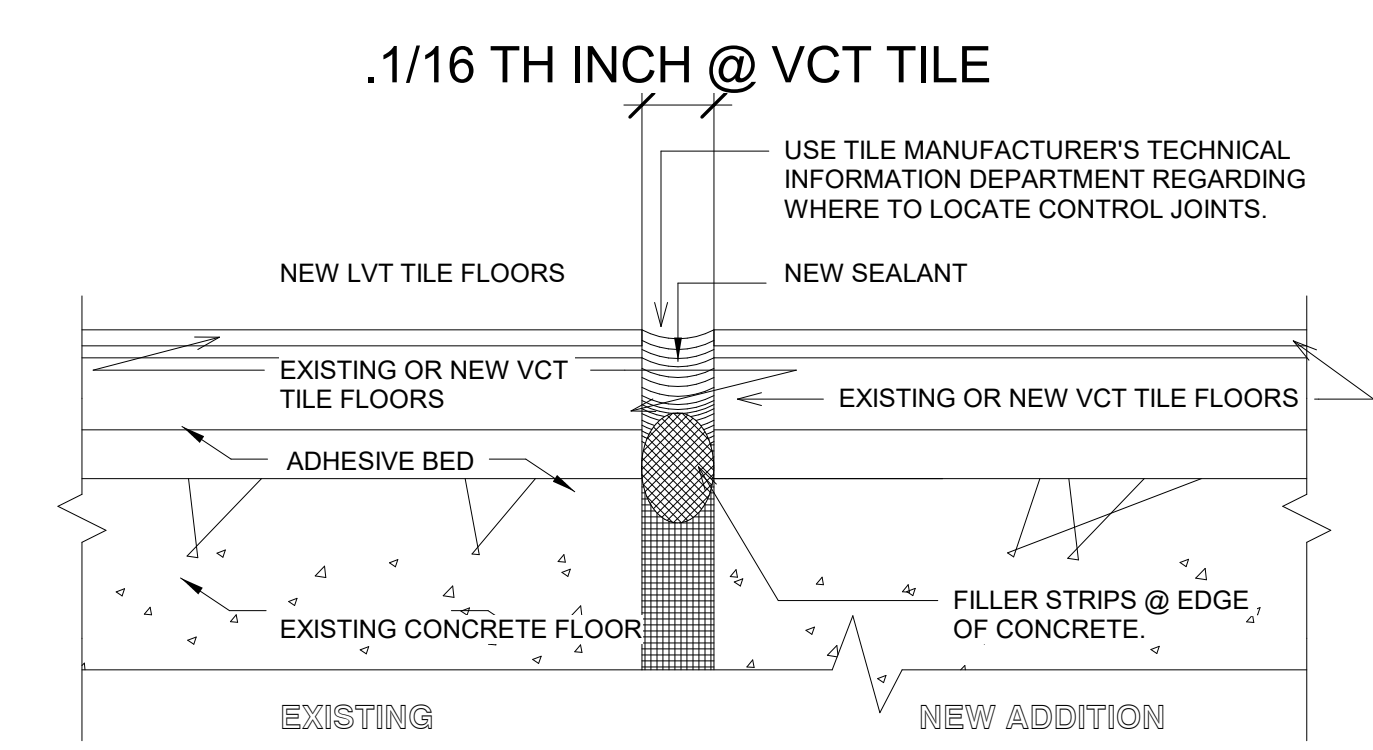


TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS



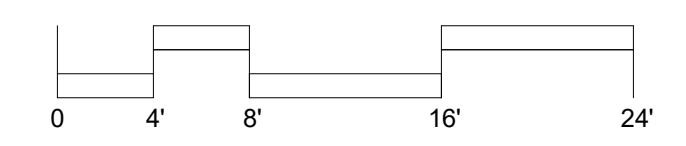
TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

2 Mounting Heights  
3/8" = 1'-0"



FLOOR CONTROL JOINTS. INSTALL @ FLOORS WHERE NEEDED ACCORDING TO MANUFACTURER'S OR TILE COUNCIL'S REQUIREMENTS. SEE STRUCTURAL FOR SPECIFICS. NOT TO SCALE.

3 FLOOR CONTROL JOINT  
1/8" = 1'-0"

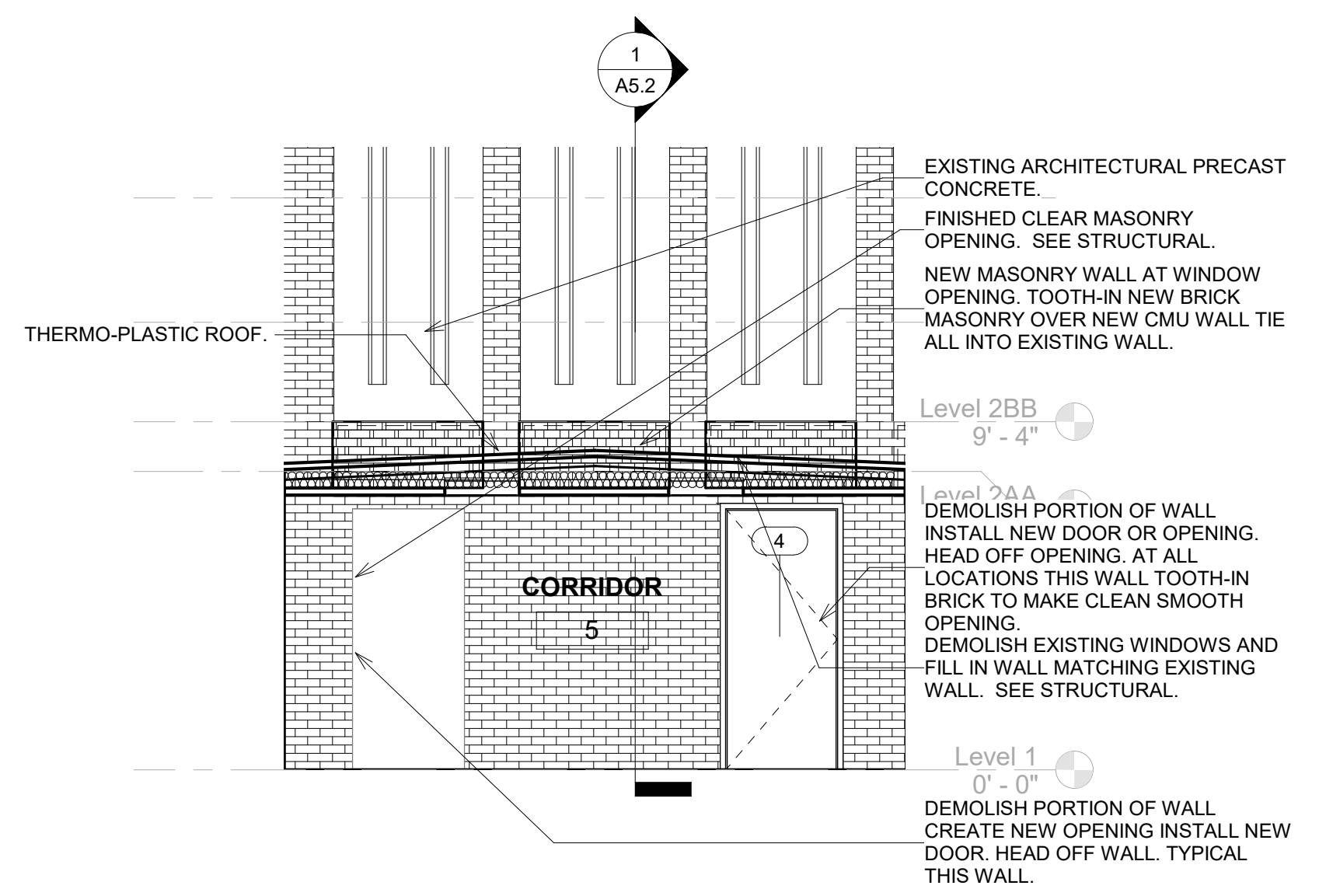


A NEW ADDITION AT BREWER HIGH SCHOOL  
 FOR  
 MORGAN COUNTY BOARD OF EDUCATION

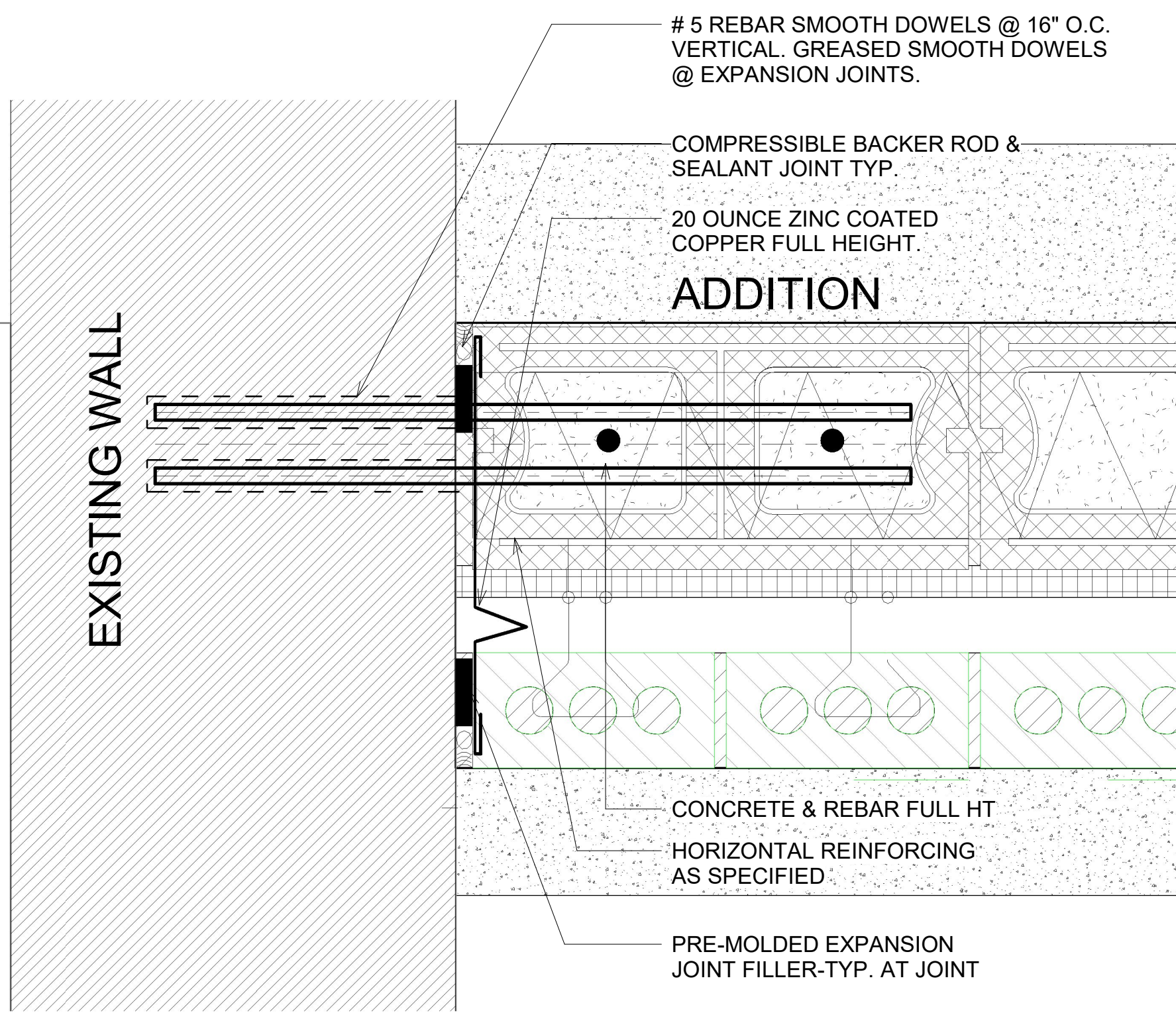
**McKee and Associates**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



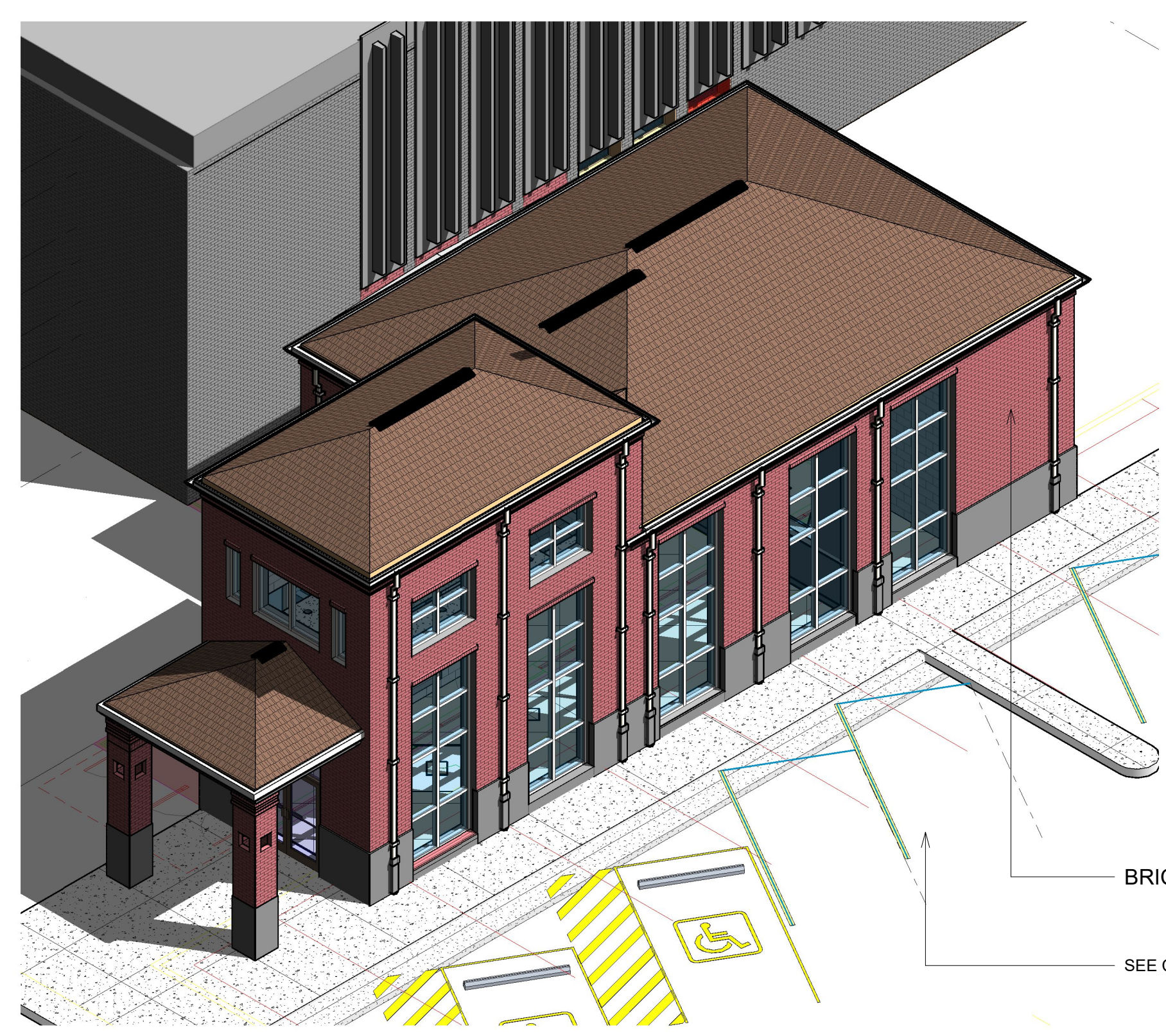
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 JOB NO. : 22-133  
 DRAWN BY : CPBIII  
 ISSUE DATE : 7-1-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **A1.1**



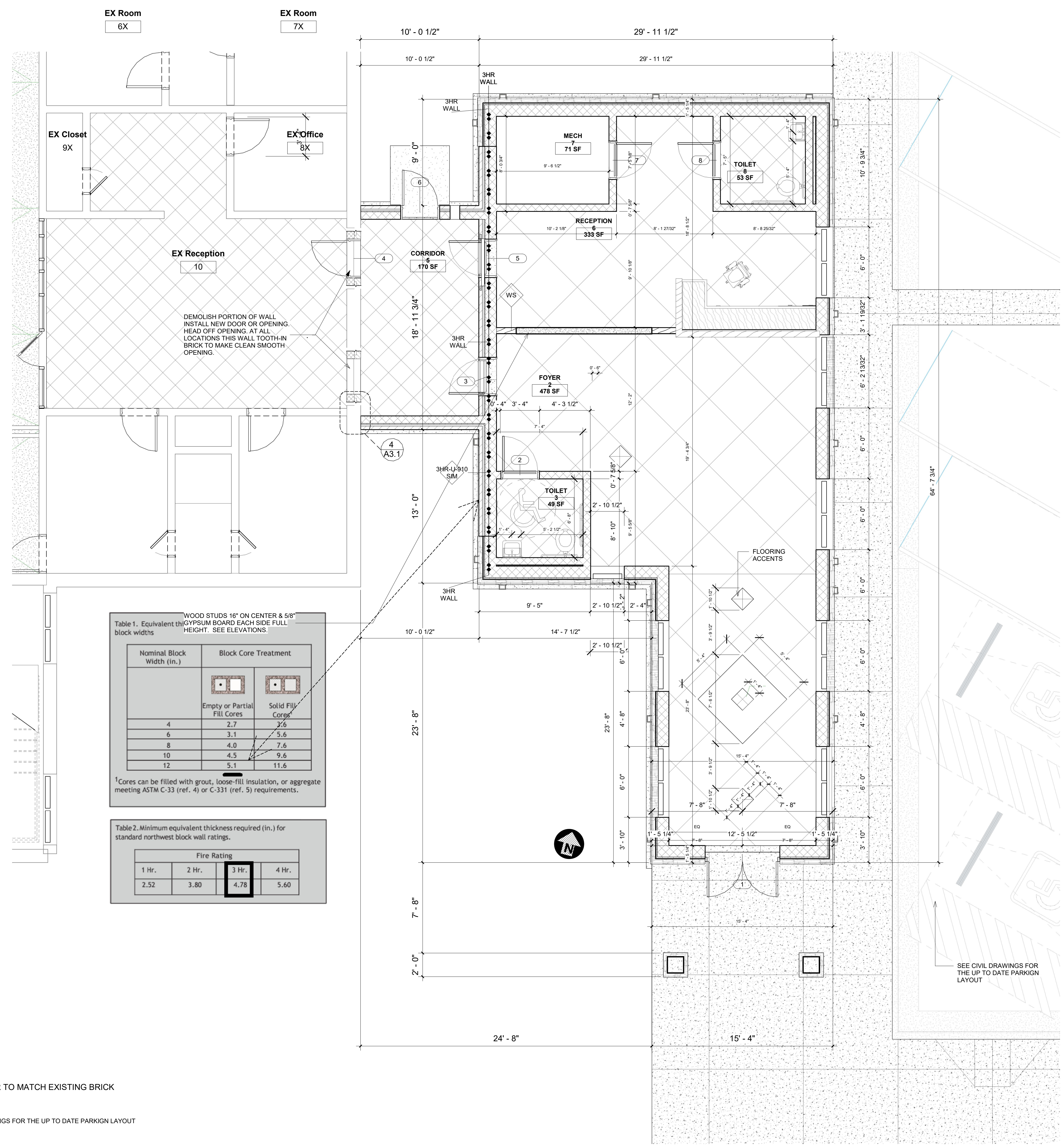
3 Elevation Connection Corridor 5  
1/4" = 1'-0"



4 Level 1 Expansion Jt Detail  
3" = 1'-0"



2 (3D) Copy 2



1 Level 1 Dimension Plan  
1/4" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : DIMENSIONED PLAN

JOB NO. : 22-133

DRAWN BY : CPBIII

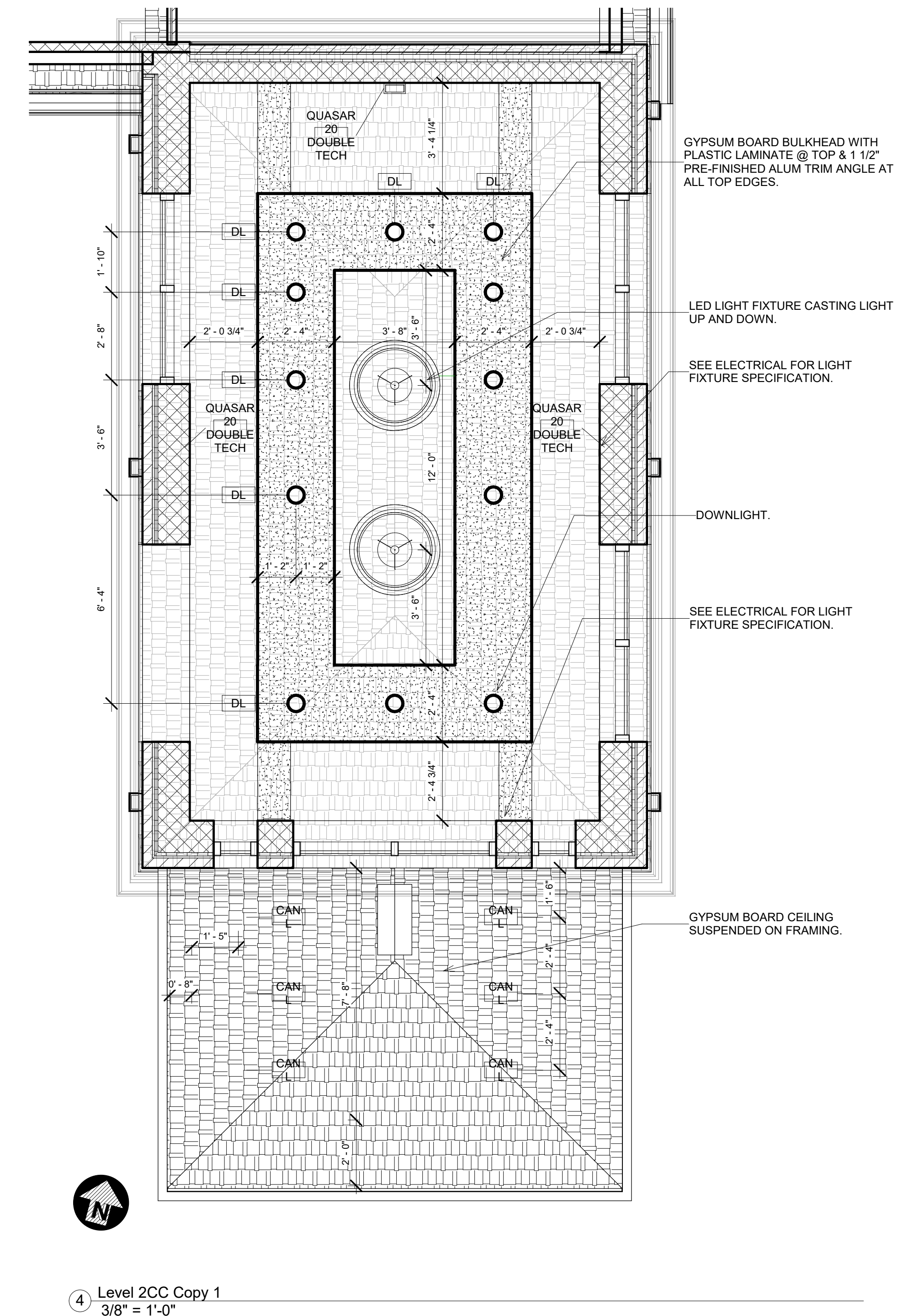
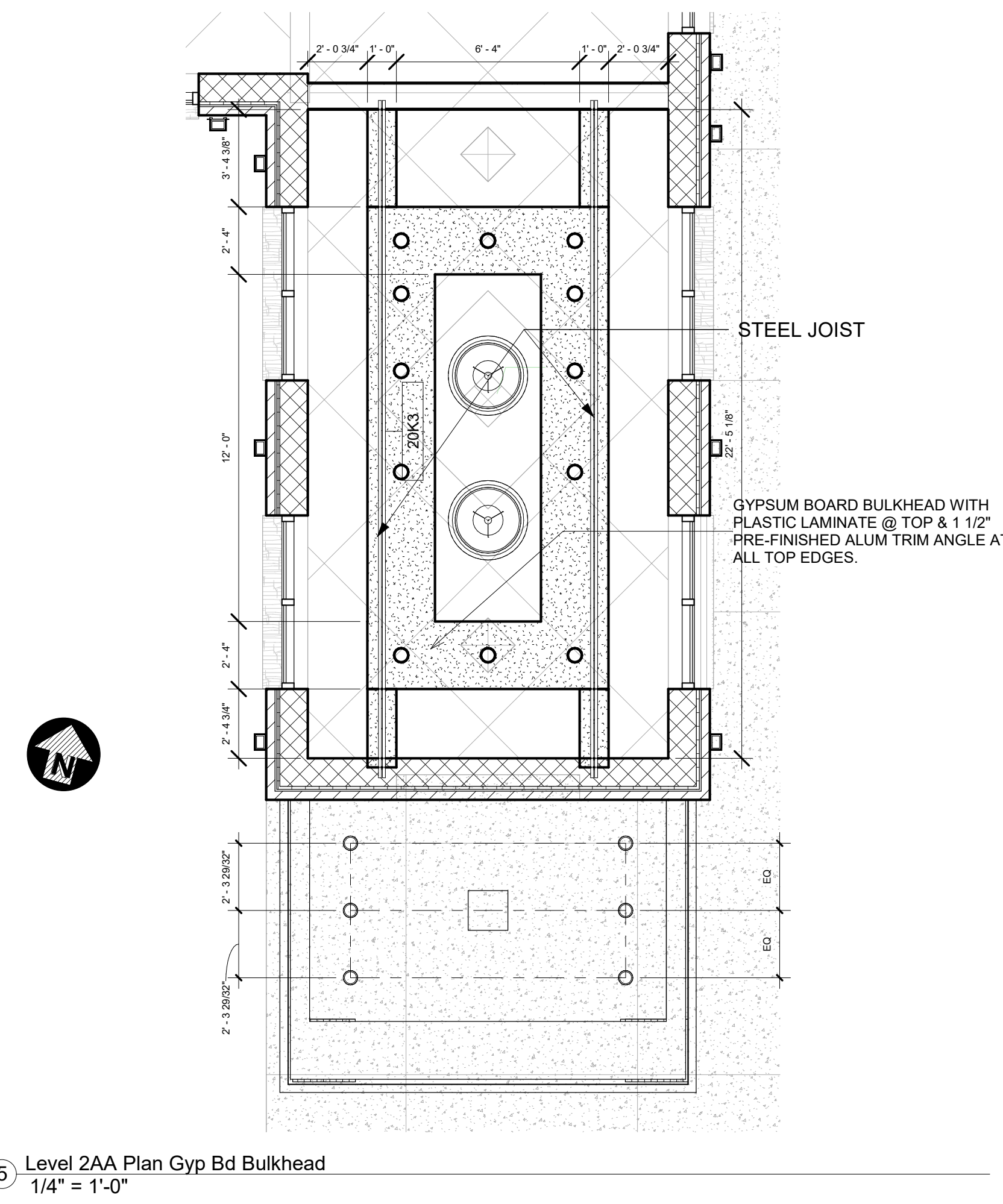
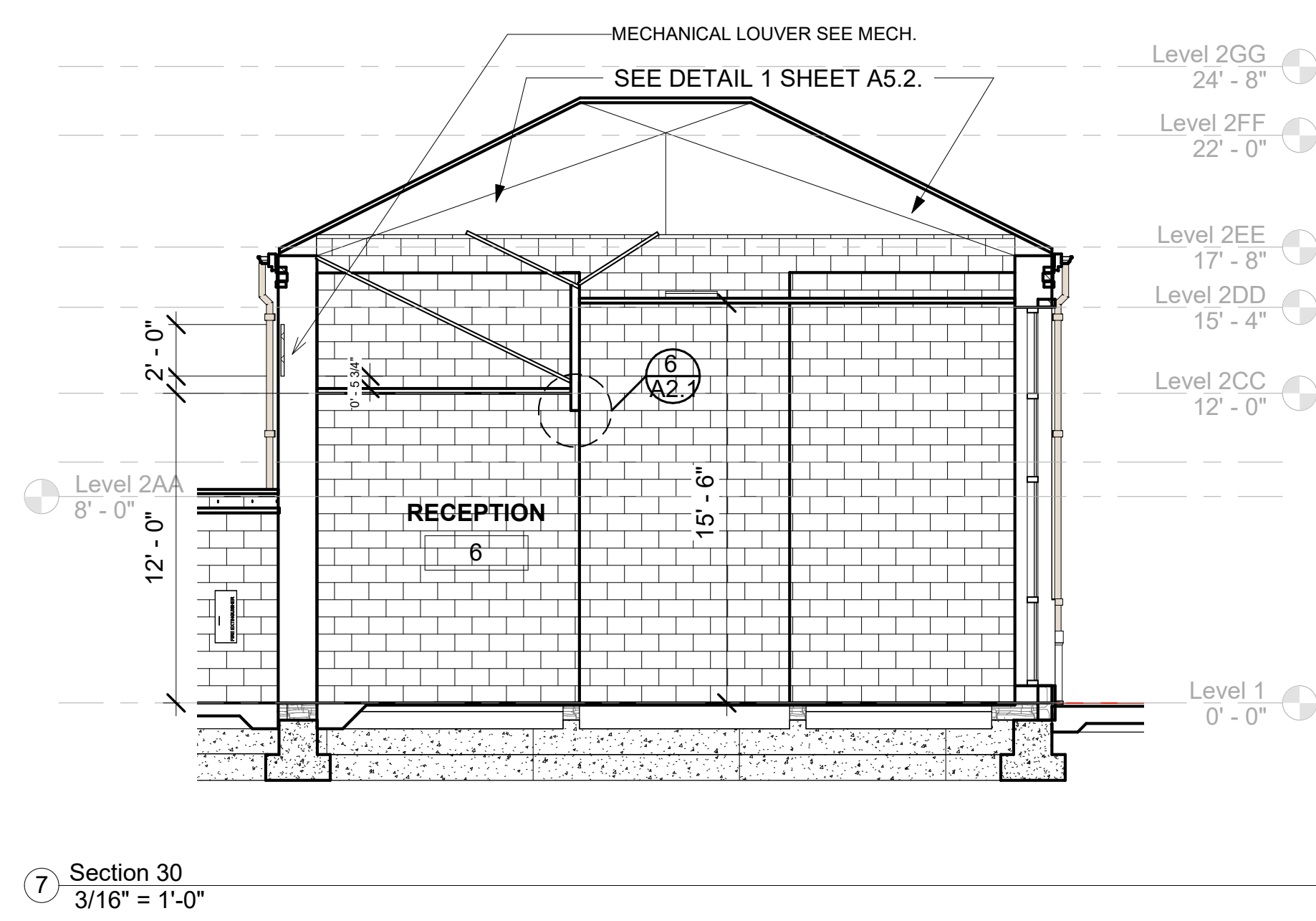
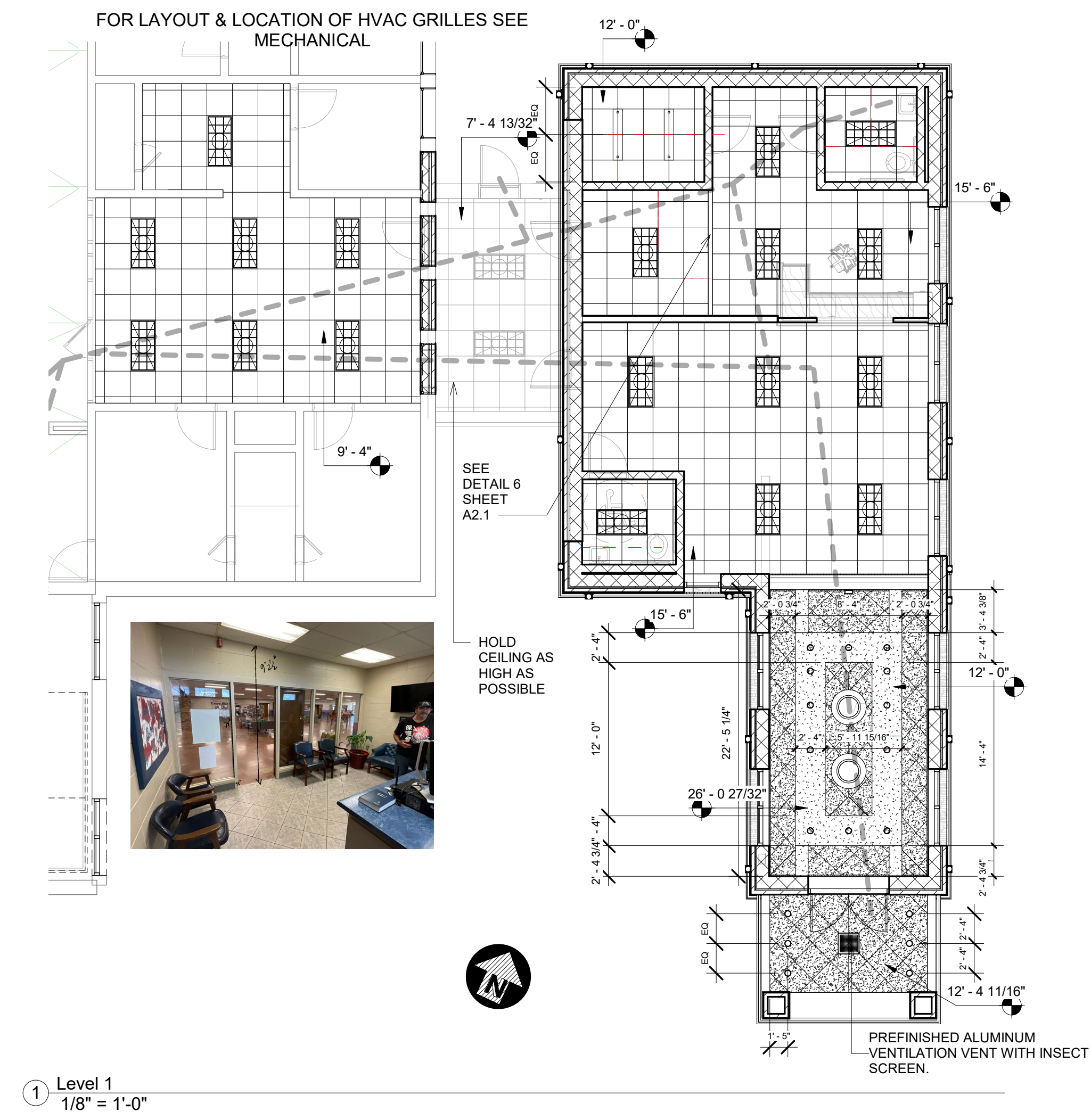
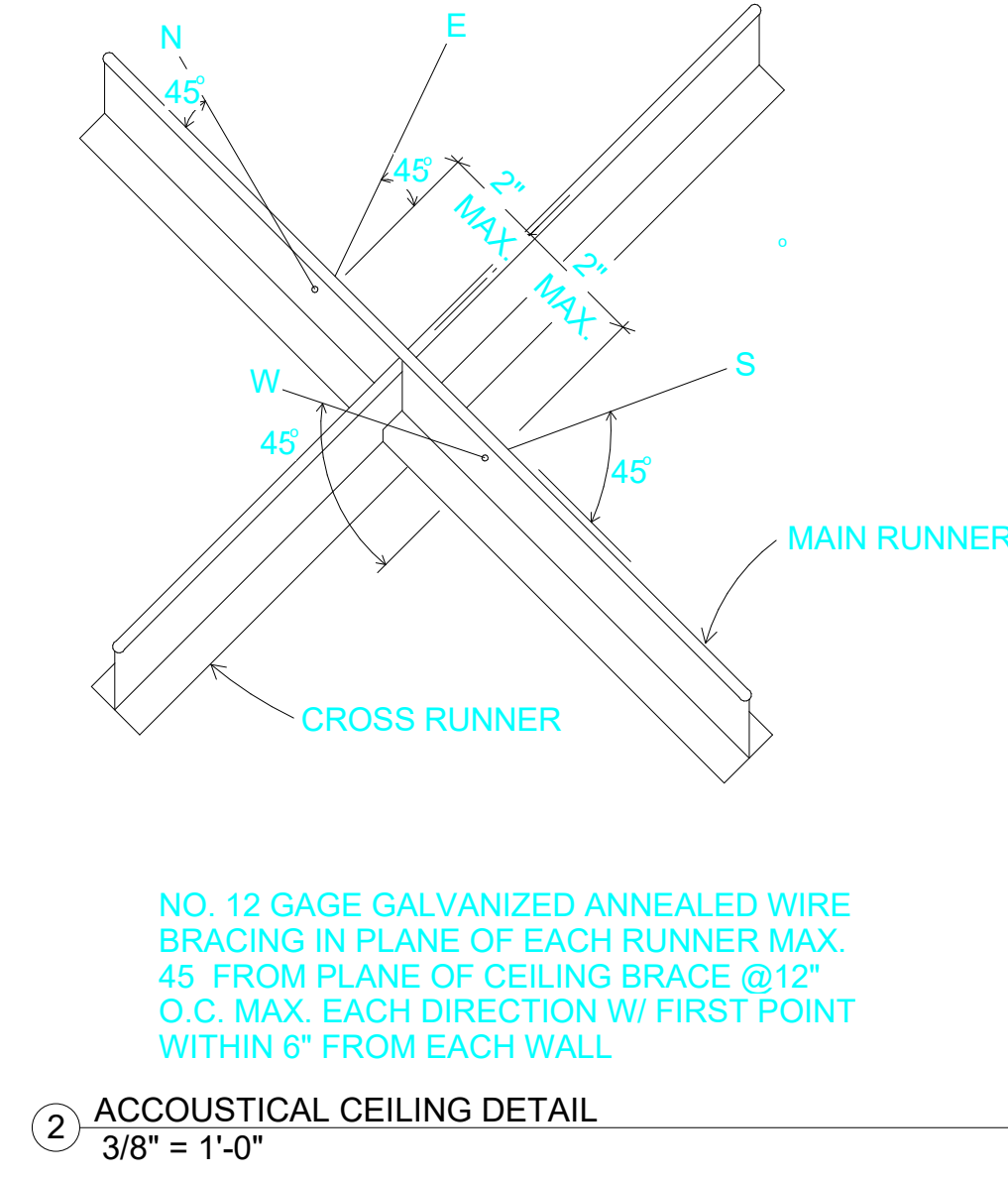
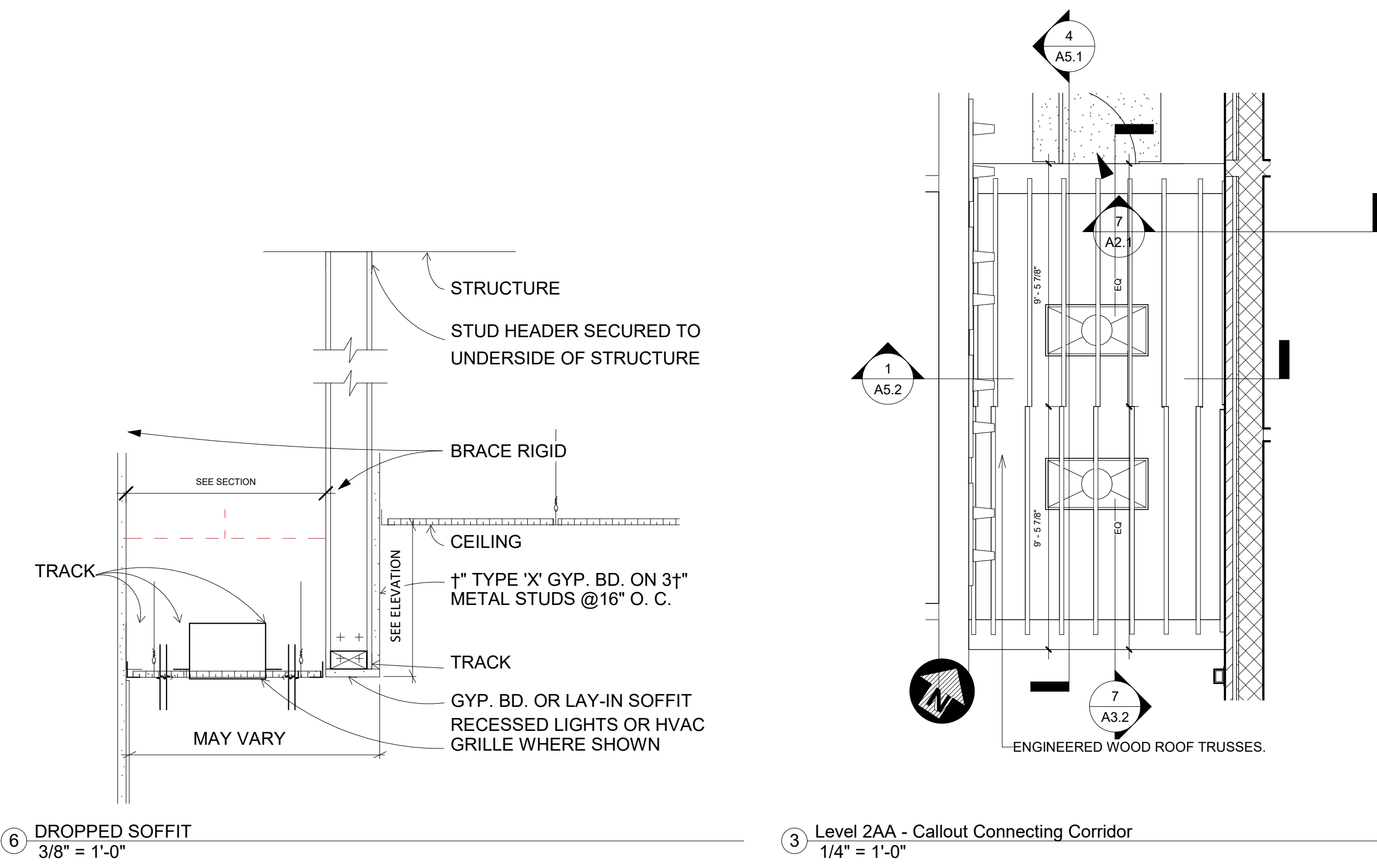
ISSUE DATE : 7-1-2022

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : A1.3



A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833



SHEET TITLE : REFLECTED CEILING PLAN  
JOB NO. : 22-133  
DRAWN BY : CPBIII  
ISSUE DATE : 7-1-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : A2.1

**GENERAL ROOFING NOTES.**

1. ALL DIMENSIONS, AND EXISTING CONDITIONS, AND QUANTITIES ARE TO BE VERIFIED IN THE FIELD THE CONTRACTOR IS TO PREPARE HIS BID ACCORDINGLY.  
 2. ALL DIMENSIONS OF EXISTING ARE CONSIDERED TO BE PLUS OR MINUS.

3. GUTTERS, SCUPPERS AND DOWNSPOUTS ARE NEW BUT INSTALLED GENERALLY IN THE LOCATIONS OF FORMER DOWNSPOUTS.

ADJUST TYPICAL DOWNSPOUT DETAILS ACCORDING TO AND COORDINATING WITH THE EXISTING CONDITIONS AND THE NECESSARY ROUTING OF DOWNSPOUTS TO WORK AND FIT THE DESIGN STANDARD CAST IRON DRAINAGE BOOT, NEENAH R-4926-29 SERIES. VERIFY SIZE OF DOWNSPOUTS NEEDED PER AMBIENT CONDITIONS AND VERIFY SIZE OF NEENAH DRAINAGE BOOT. VERIFY ALL CONDITIONS IN THE FIELD. MORGAN CO SCHOOLS RESERVES THE RIGHT TO APPROVE A SAMPLE NEENAH BOOT TO MAKE SURE THAT THE FIT IS ATTAINABLE. THE DETAILS HEREIN ARE DRAWN ACCORDING TO A TYPICAL SIZE-ONE SIZE ONLY IS SHOWN. ALL GUTTER STRAPS WILL BE NEW. DOWNSPOUT WILL MATCH THE COLOR, TEXTURE AND MATERIAL APPEARANCE OF THE PRE-FABRICATED-PREFINISHED FASCIA MATERIAL. TO THE EXTENT POSSIBLE IF THE FASCIA IS GLOSSY THE DOWNSPOUT MATERIAL WILL BE GLOSSY. TO THE EXTENT POSSIBLE IF FASCIA IS TEXTURED THE DOWNSPOUT MATERIAL WILL BE TEXTURED.

5. SUBMIT SHOP DRAWINGS FOR ALL WORK. THERE WILL BE NOT ONLY A PRE-CONSTRUCTION CONFERENCE FOR ROOFING BUT ONE AS WELL FOR THE PRE-FINISHED FASCIA AND ONE FOR THE GUTTER-DOWNSPOUT.

4. LOCATE NEW ROOF VENTS SUCH AS TO HIDE THEM FROM THE FRONT SIDES OF THE BUILDING, TO HIDE THEM FROM PUBLIC VIEW. THIS WILL BE DONE BY OFFSET-VENT PIPING AT THE ATTIC OF FUTURE ROOF-STACK VENTS.

6. PRIOR TO BEGINNING WORK:  
 -ARCHITECT MUST APPROVE ALL PROPOSED SUB-CONTRACTORS, ESPECIALLY PRE-FABRICATED PREFINISHED METAL FASCIA ROOFING SUB-CONTRACTORS OR ARTISANS WORKING FOR THE ROOF CONTRACTOR. THE PRE-FABRICATED METAL FASCIA WORKMEN WILL HAVE AN ONSITE CREW CHIEF THAT WILL STAY WITH THE FASCIA JOB UNTIL COMPLETION AND WILL BE AVAILABLE DAILY FOR INTERACTION BY THE ARCHITECT. THE SAME REQUIREMENT IS ENFORCED FOR A SUB-CONTRACTOR INSTALLING THE METAL FASCIA. GIVE 10 WORKING DAYS NOTICE FOR INSPECTIONS OR TO ANNOUNCE COMPLETION OF A LENGTH OF FASCIA. THESE WORK COMPLETION UNITS OF FASCIA OR GUTTERING WILL BE DECIDE WITH THE SUCCESSFUL BIDDER AT THE START OF THE PROJECT.

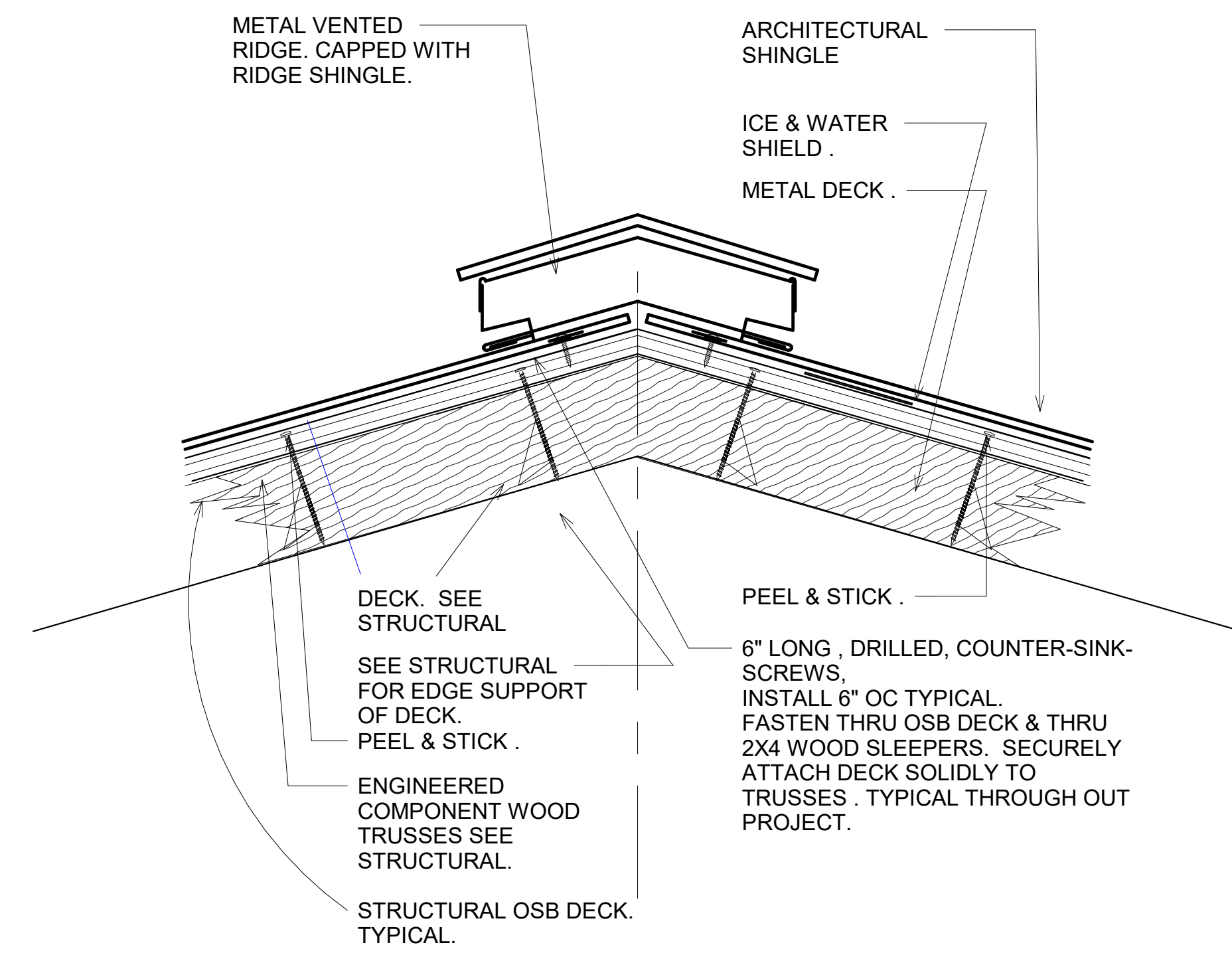
-ARCHITECT MUST HAVE REVIEWED REQUIREMENTS OF PROJECT, AND PROJECT DETAILS WITH SUPERINTENDENT, AND CONTRACTOR, AND WITH METAL FASCIA ARTISANS, CREW CHIEF OR SUB-CONTRACTOR.  
 -ARCHITECT MUST HAVE APPROVED SHOP DRAWINGS PRIOR TO ANY RE-CONSTRUCTION CONFERENCES.

8. DO NOT DISMANTLE SCAFFOLDING UNTIL ALL AREAS HAVE VERIFIED BY THE ARCHITECT, OR IF SCAFFOLDING IS NOT USED ARRIVE AT A WAY TO SAFELY INSPECT THE FASCIA ROOF EDGE WORK WITH THE ARCHITECT AND THIS MAY INCLUDE HOSE TESTING FASCIAS OR GUTTERING TO MAKE SURE THAT THE SPILL OVER ROUND GUTTERS IS ADJUSTED WITHIN THE GUTTER LEVEL & PLUMBNESS TO HAVE WATER OVERFLOWING FORWARD AND NOT AGAINST THE WALL.

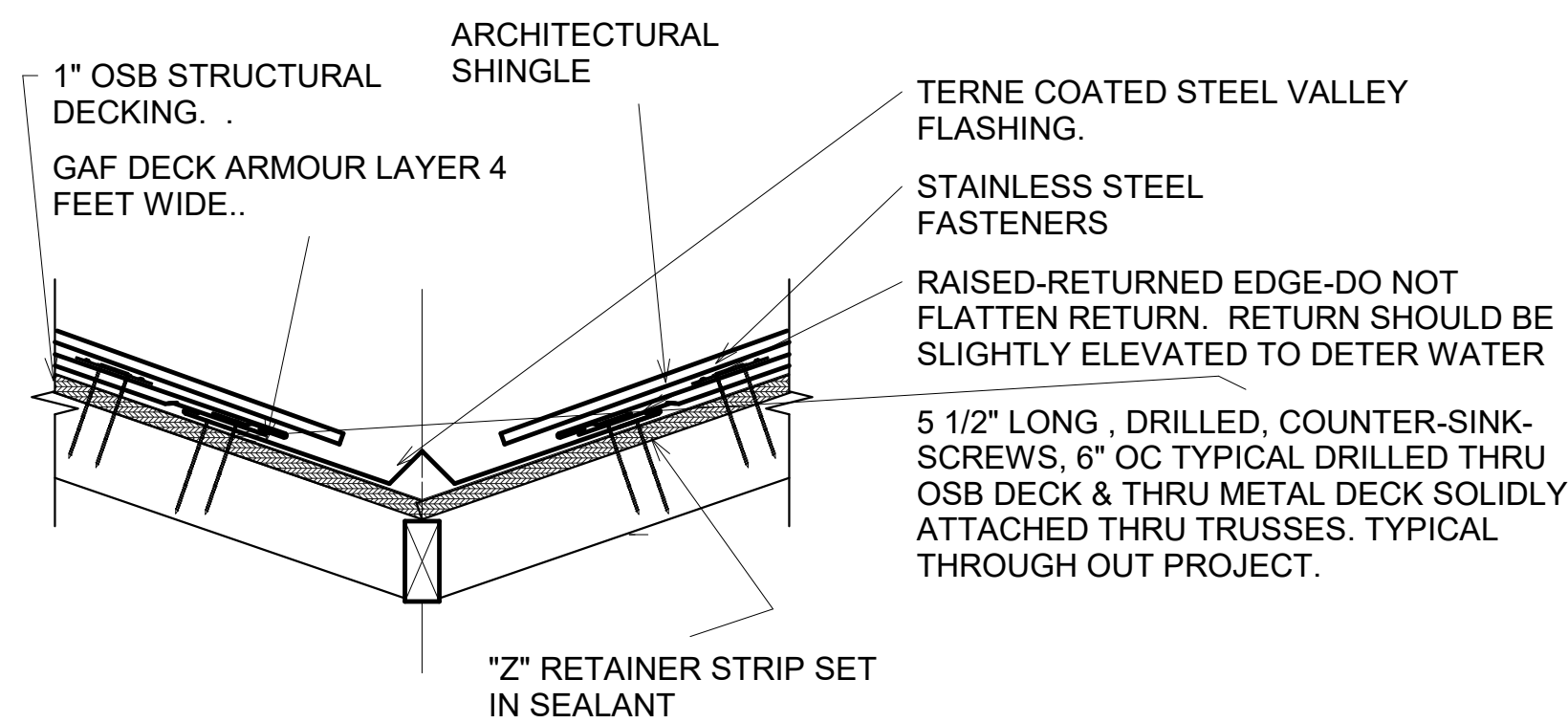
9. WHERE SEALANT IS APPLIED THESE JOINTS MAY BE TESTED FOR WATER TIGHTNESS. THIS COULD INCLUDE HOSE TESTING. THIS MATTER MUST BE COORDINATED WITH THE ARCHITECT, OWNER, AND CONSULTANTS. GIVE 10 WORKING DAYS NOTICE.

7. DO NOT BEGIN ANY WORK UNTIL THESE CONDITIONS ARE MET.

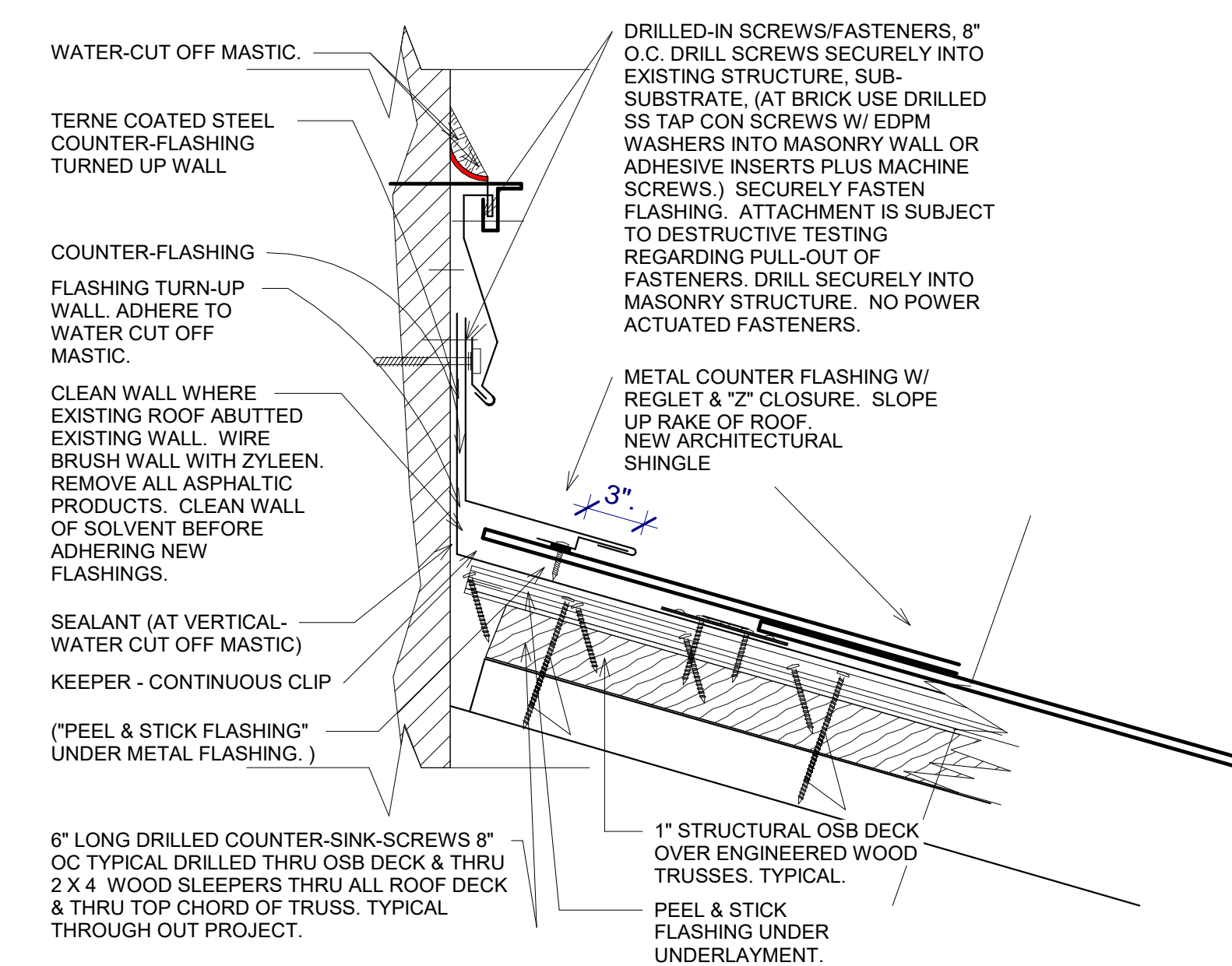
**ROOFING NOTES**  
 1/8" = 1'-0"



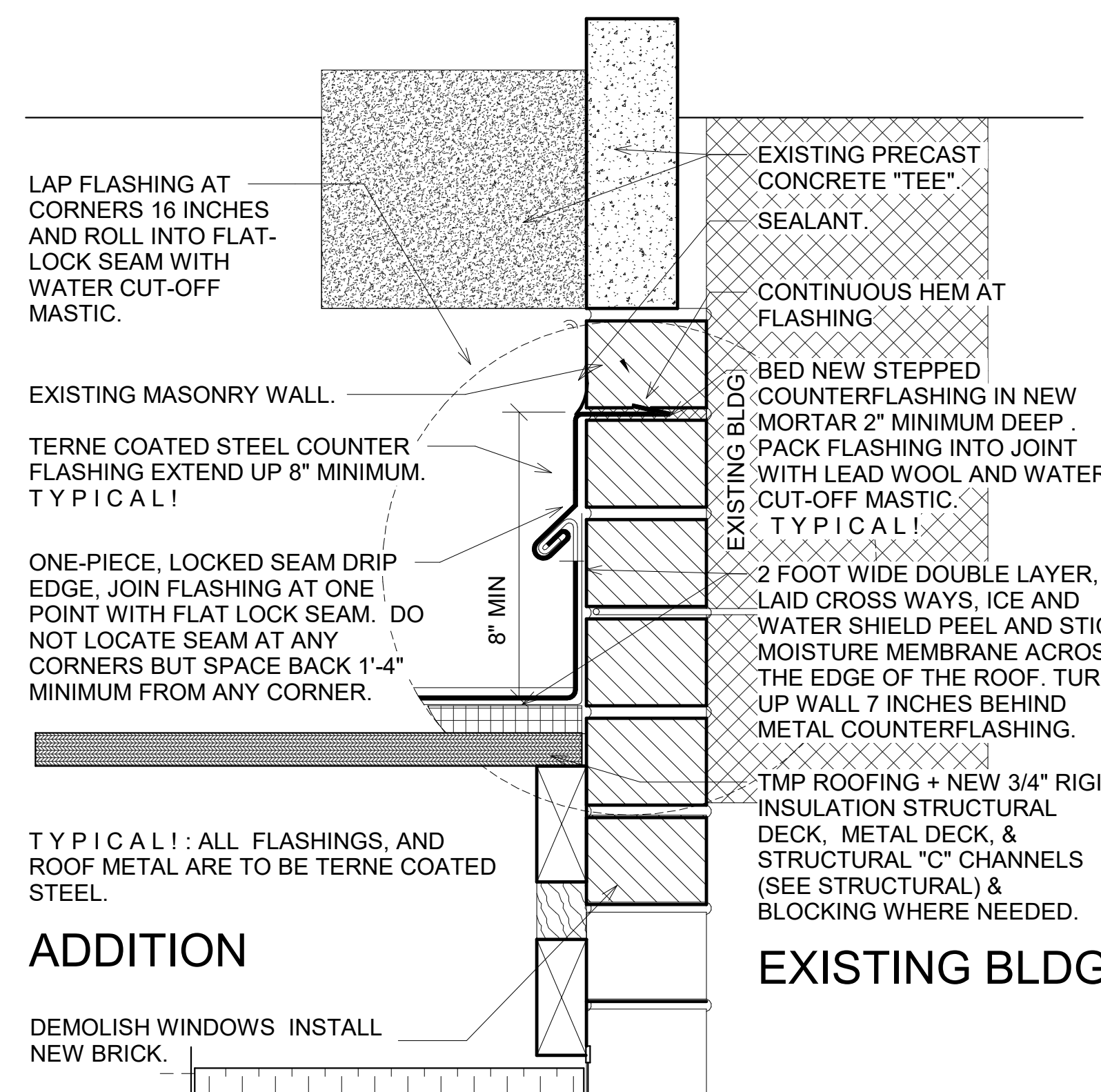
6 RIDGE DETAIL  
 3/8" = 1'-0"



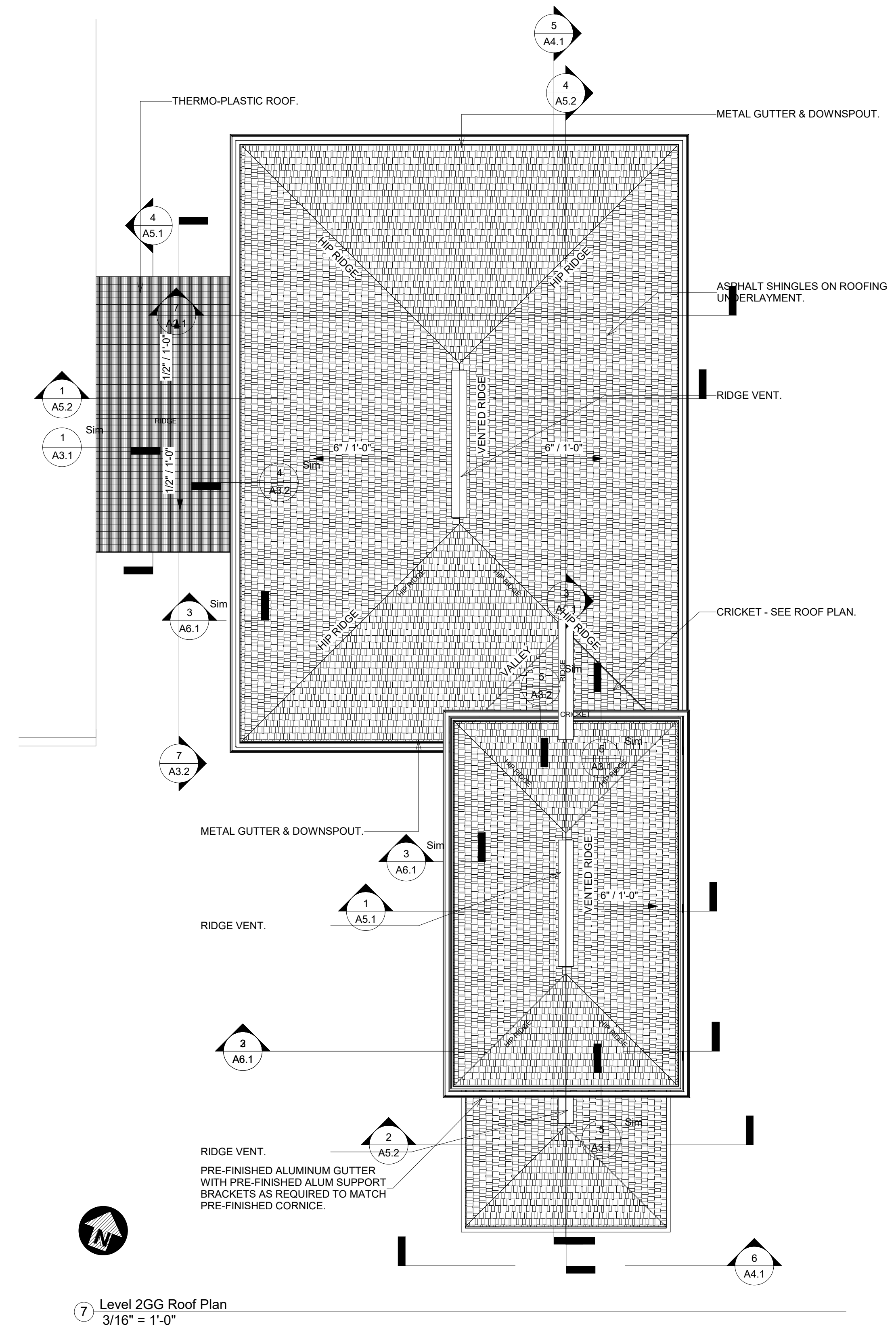
6 ROOF VALLEY  
 1 1/2" = 1'-0"



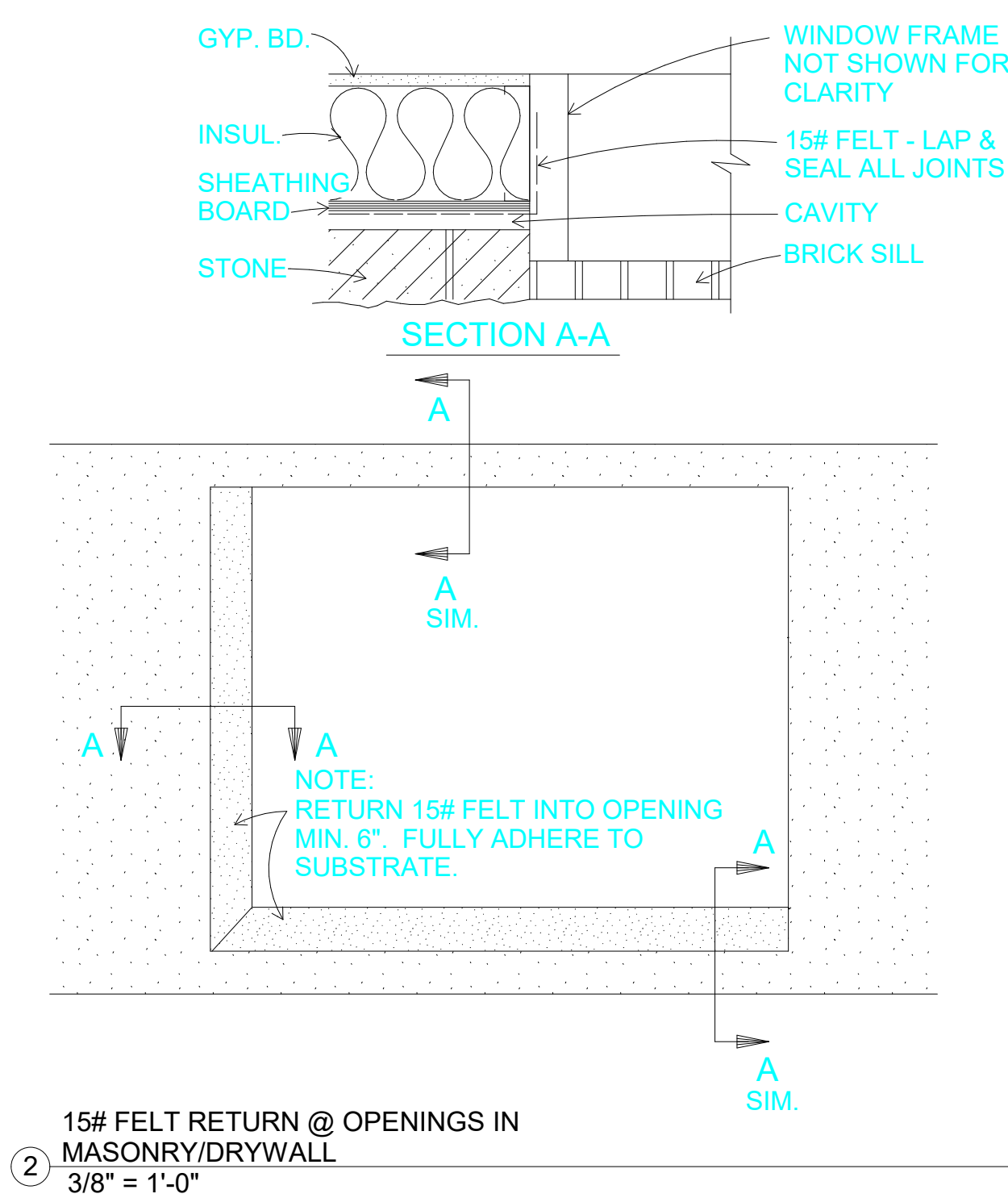
5 ROOF COUNTERFLASHING  
 3" = 1'-0"



1 FLASHING TO EXISTING BLDG  
 3" = 1'-0"

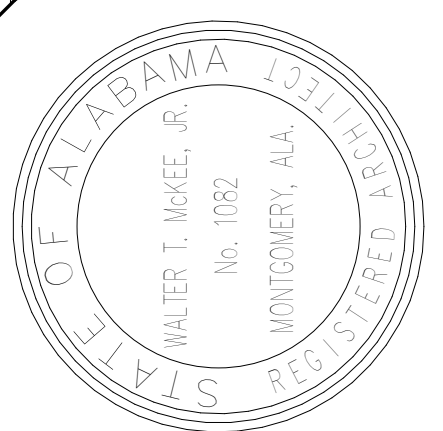


7 Level 2GG Roof Plan  
 3/16" = 1'-0"

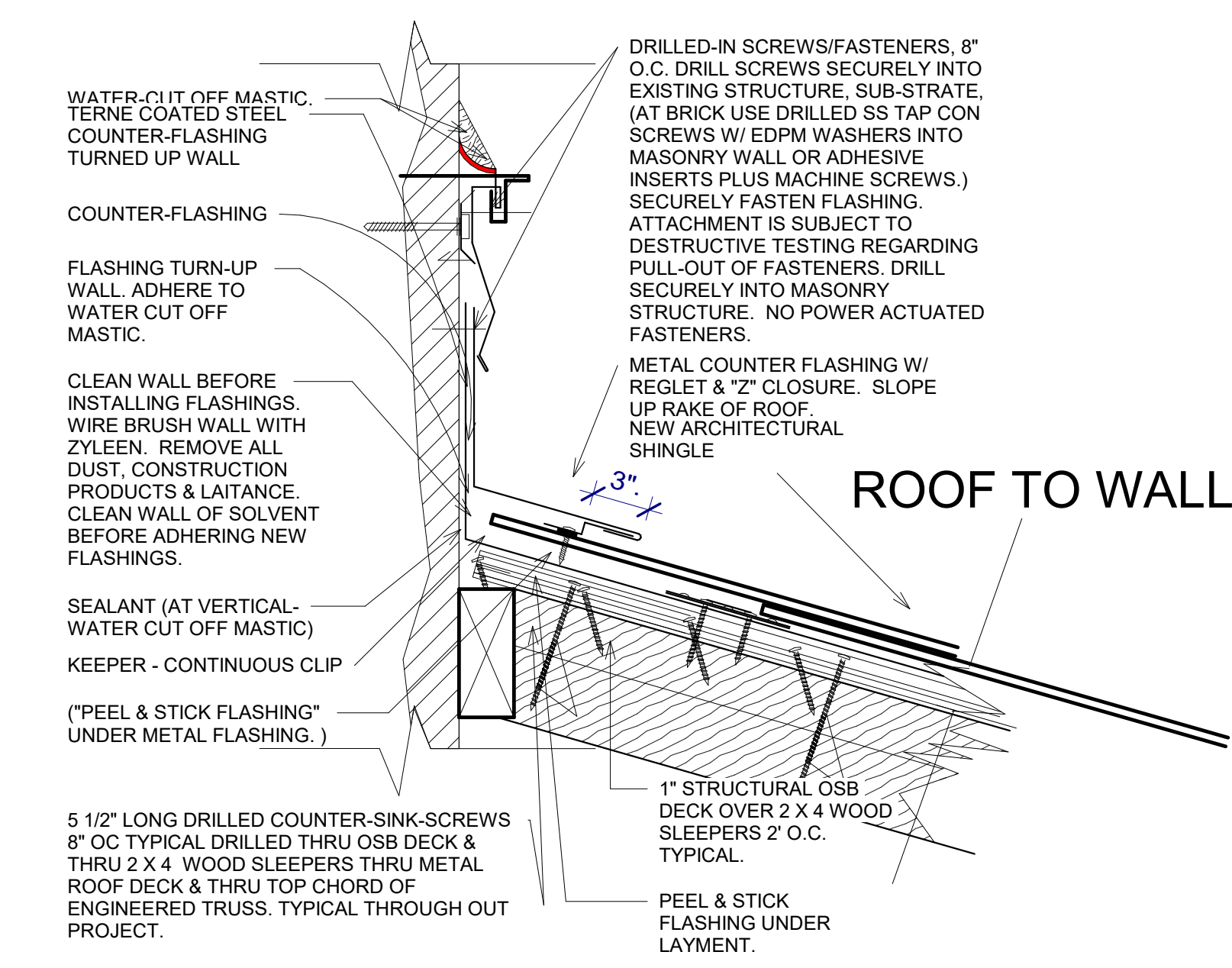


**A NEW ADDITION AT BREWER HIGH SCHOOL**  
 FOR  
**MORGAN COUNTY BOARD OF EDUCATION**

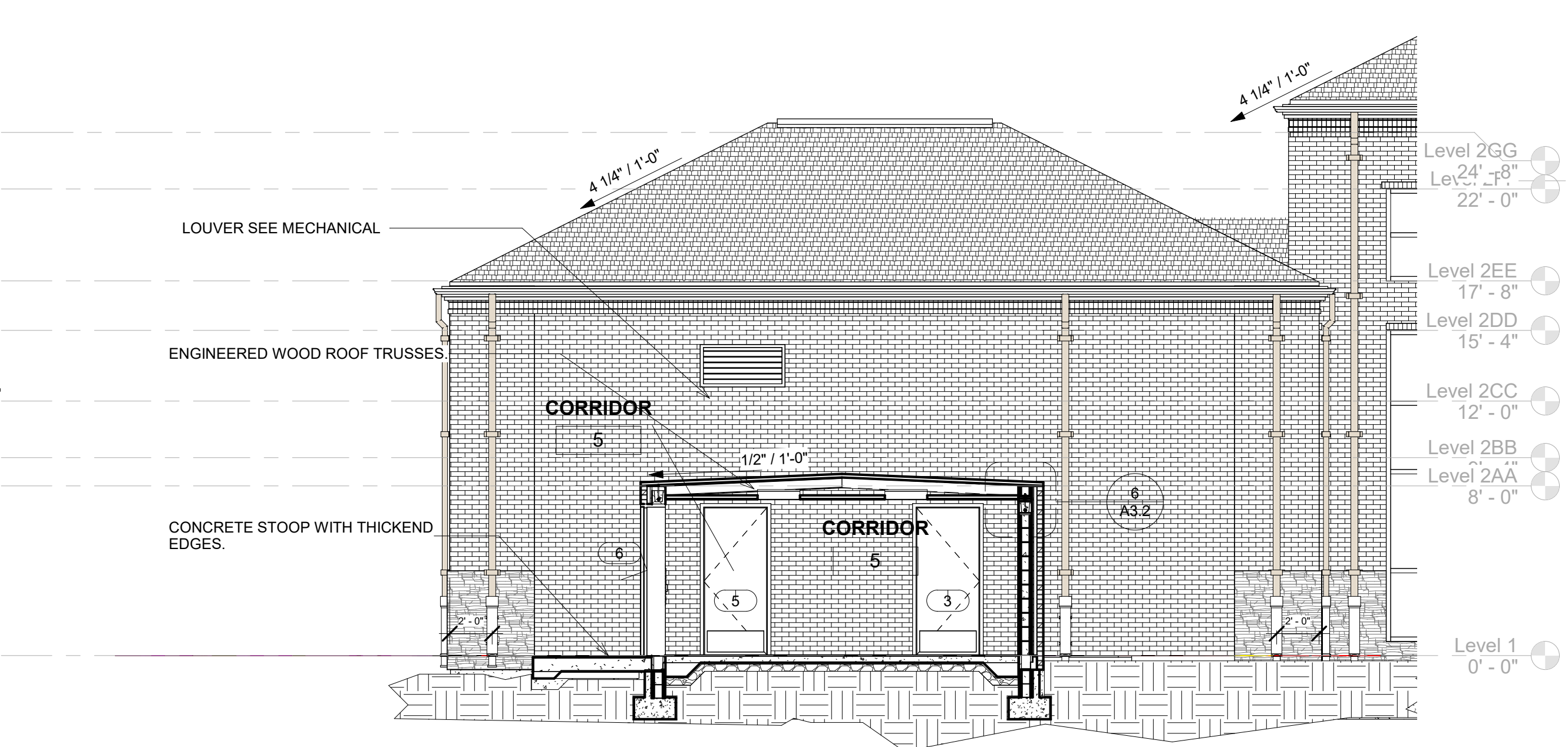
**McKee and Associates**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



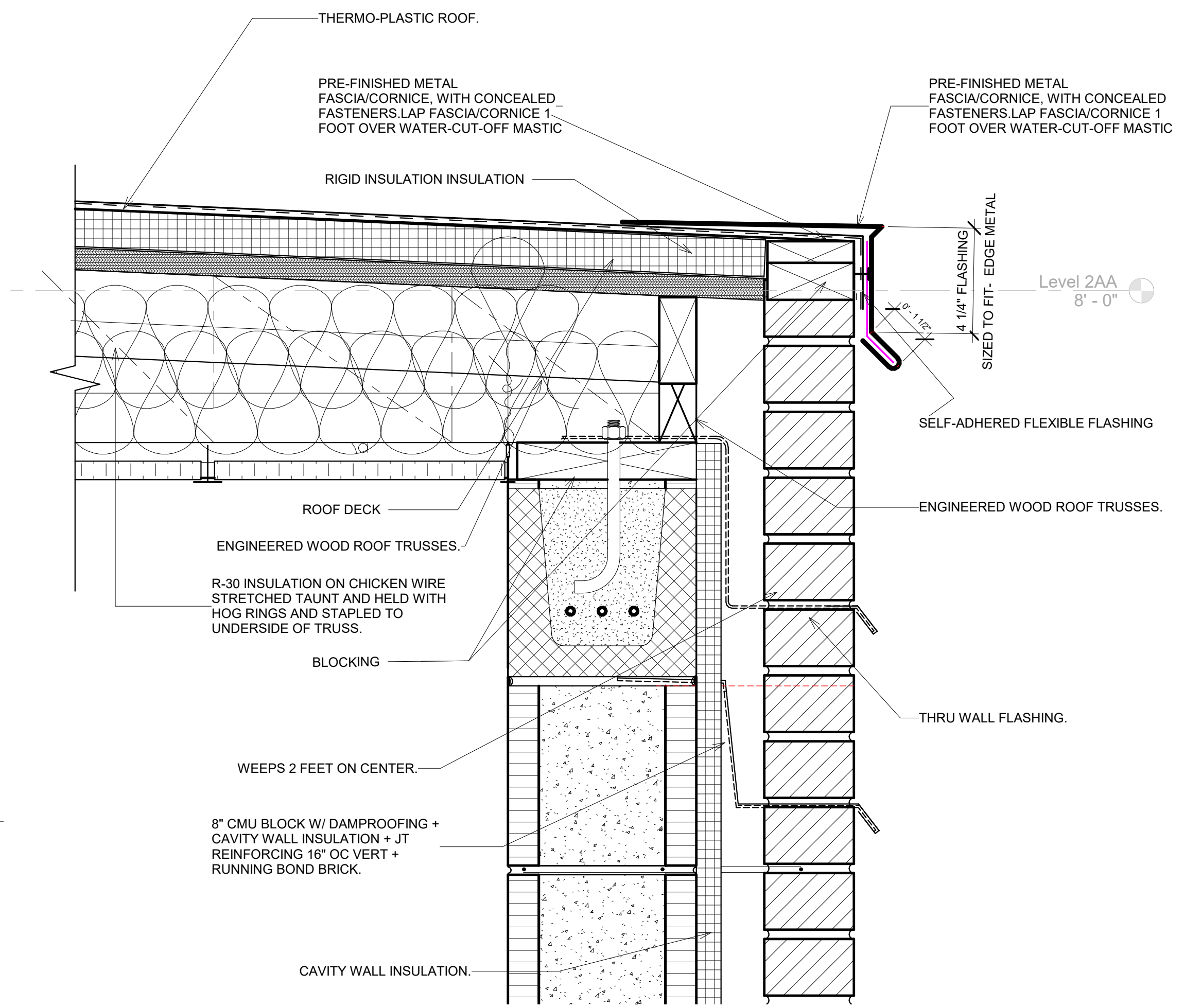
SHEET TITLE : ROOF PLAN  
 JOB NO. : 22-133  
 DRAWN BY : CPBIII  
 ISSUE DATE : 7-1-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **A3.1**



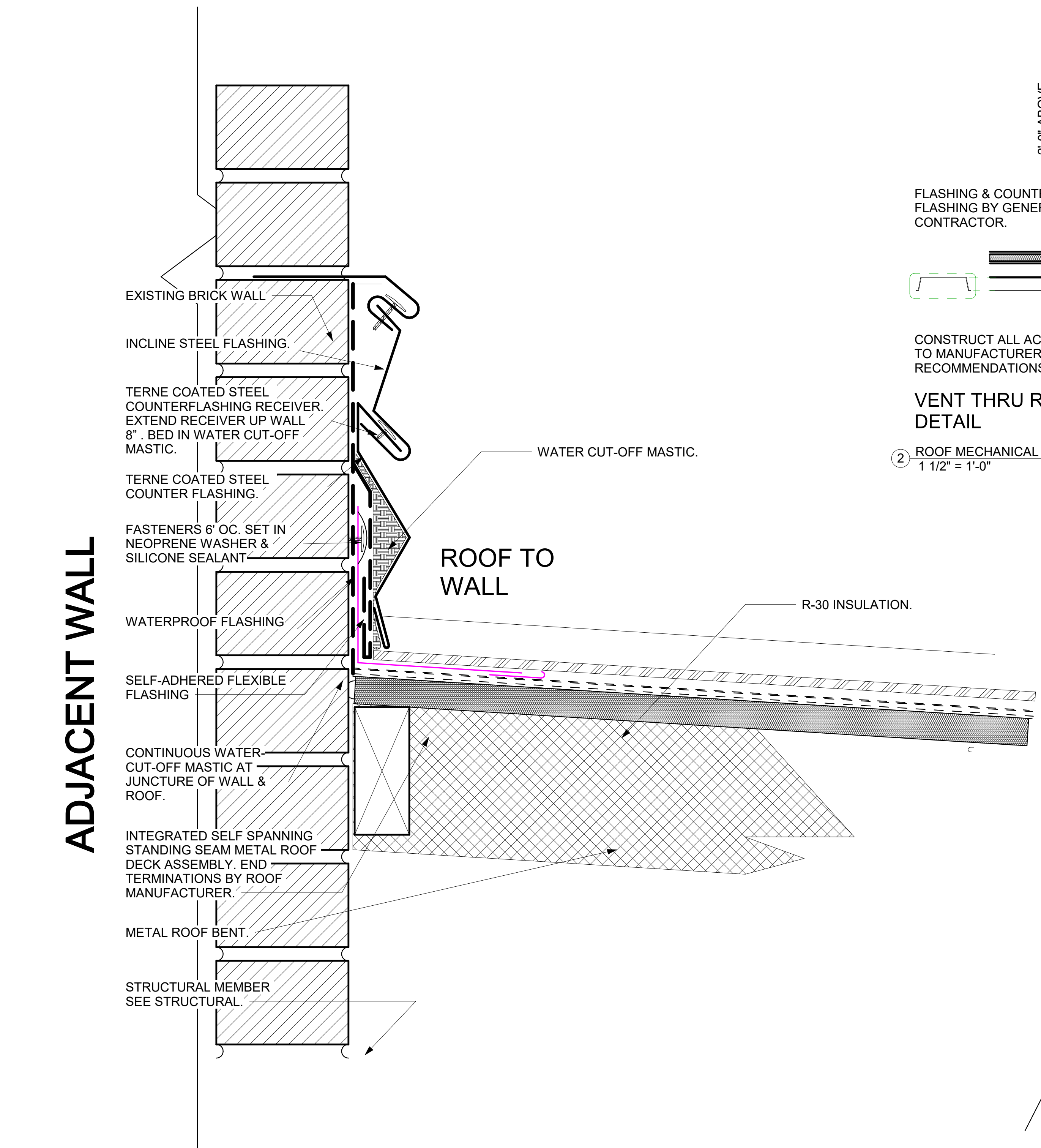
5 Roof - Counterflashing  
3" = 1'-0"



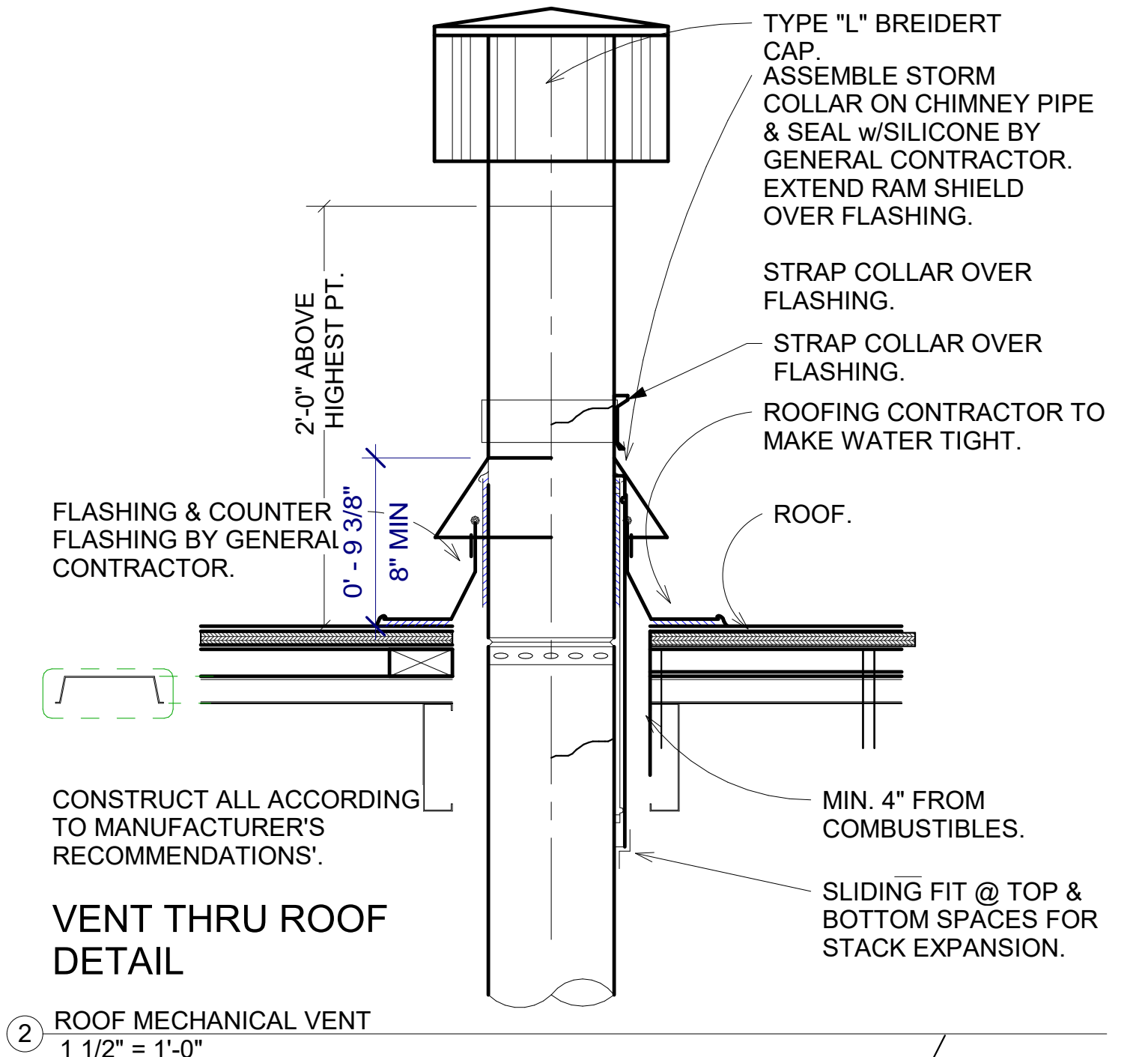
7 Section 10 Connection Corridor 5  
3/16" = 1'-0"



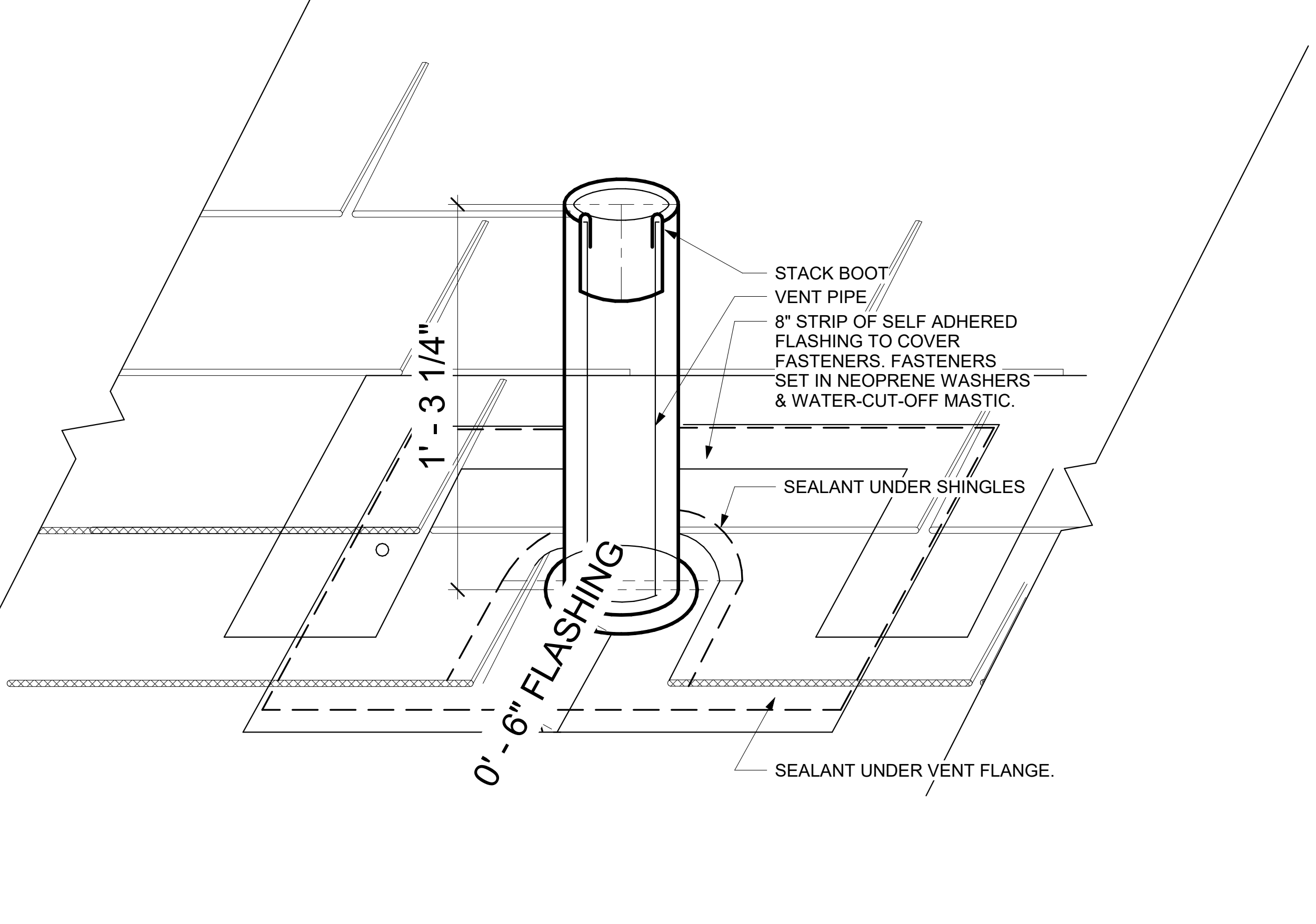
6 Section 10 Connection Corridor 5 - Callout 1  
3" = 1'-0"



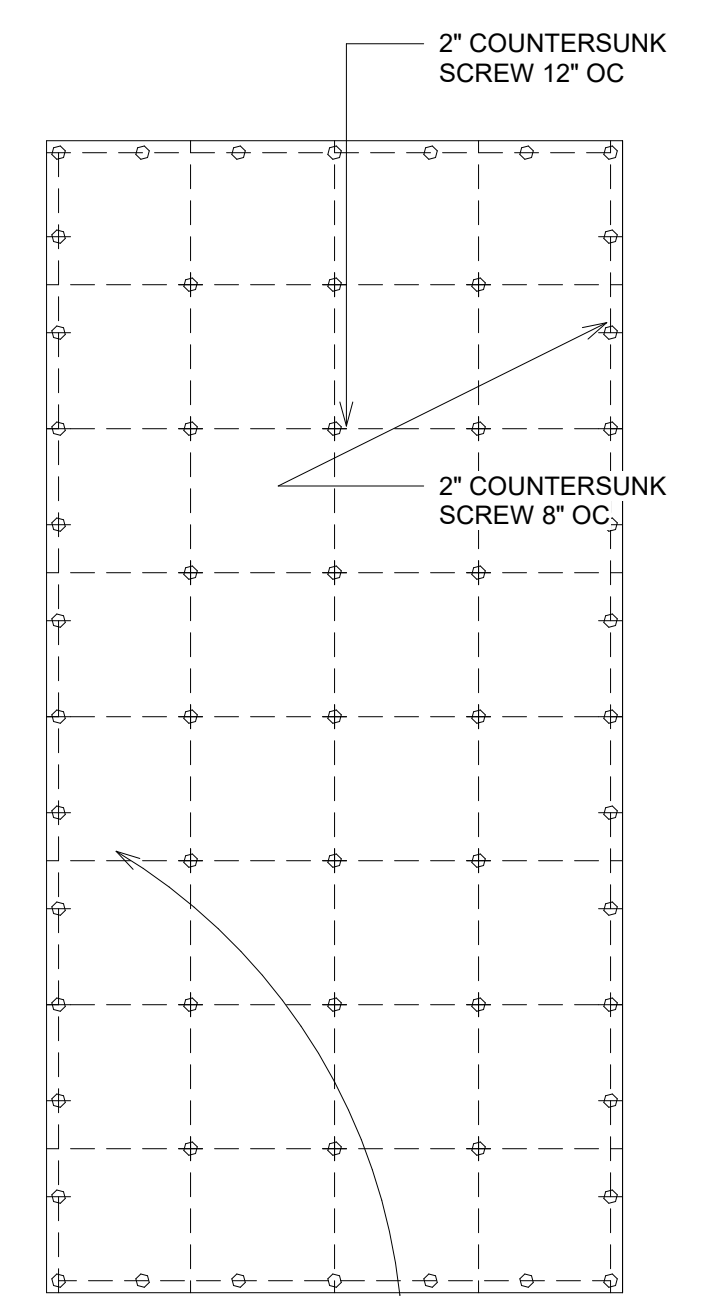
4 BASE FLASHING ALTERNATE DETAIL  
6" = 1'-0"



2 ROOF MECHANICAL VENT  
1 1/2" = 1'-0"



1 VENT PIPE  
3" = 1'-0"



3 OSB Sheathing Panel Attachment @ Roof  
3/4" = 1'-0"

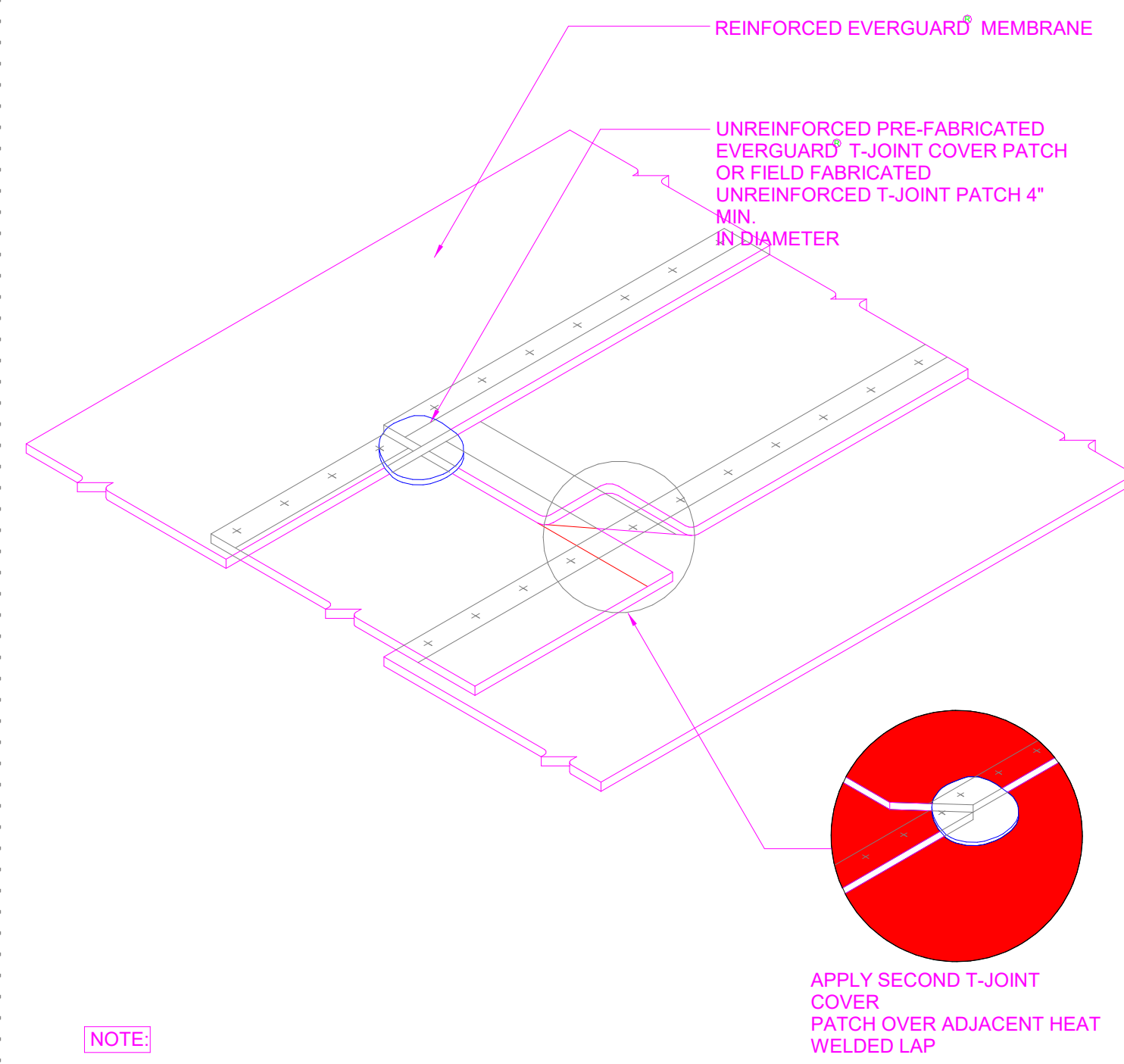
A NEW ADDITION AT BREWER HIGH SCHOOL

FOR MORGAN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES ARCHITECTS, INC.



SHEET TITLE : ROOF DETAILS  
 JOB NO. : 22-133  
 DRAWN BY : CPBIII  
 ISSUE DATE : 7-1-2022  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : A3.2



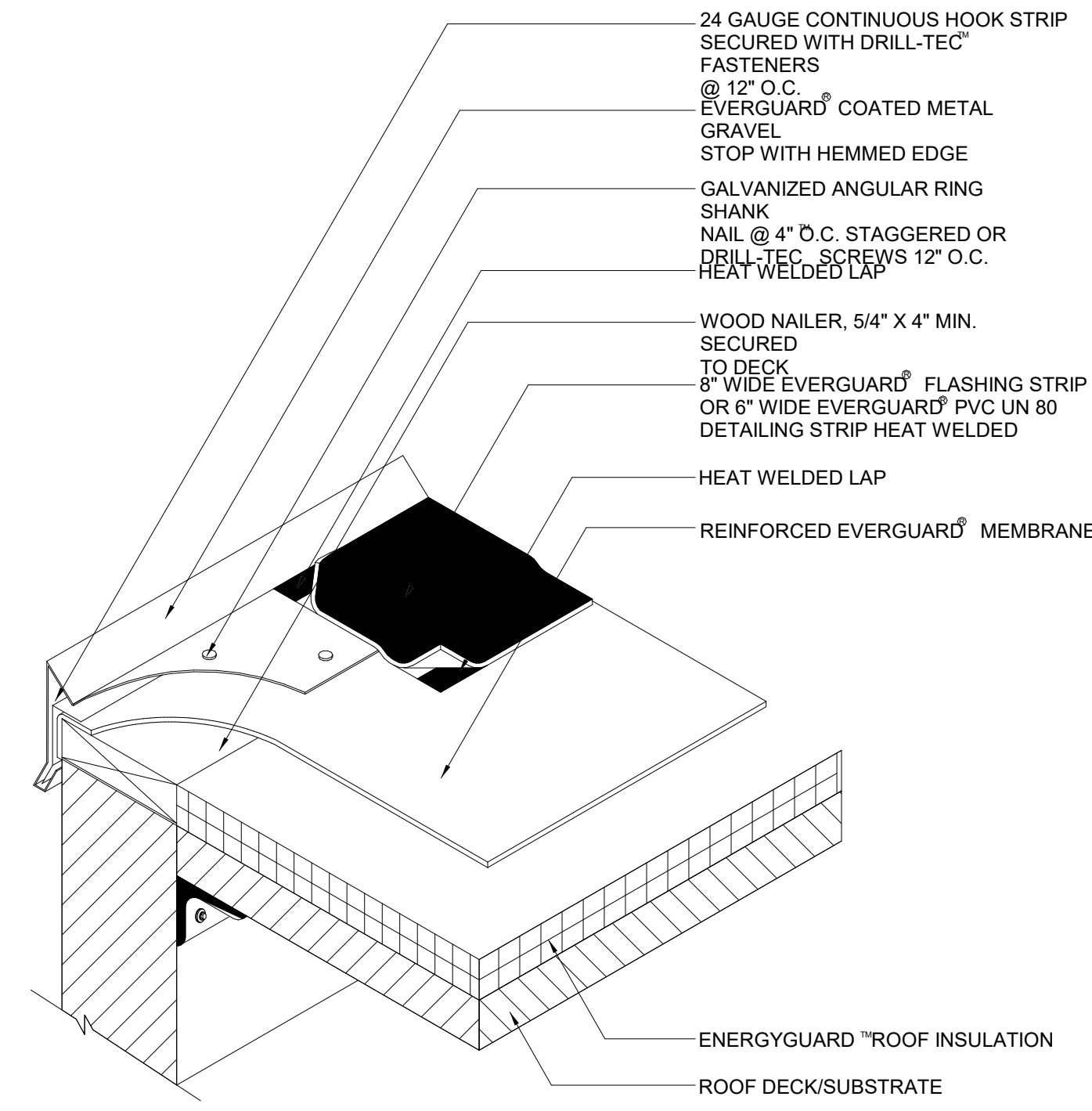
**NOTE**

1. T-JOINT IS TO BE USED FOR 60 & 80 MIL TPO ONLY.
2. T-JOINT MAY BE FIELD FABRICATED FROM UNREINFORCED MEMBRANE WITH 4" MIN. DIAMETER.
3. APPLY EVERGUARD® TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES (REFER TO DETAIL MA/FA/BA 115).

APPLY SECOND T-JOINT COVER PATCH OVER ADJACENT HEAT WELDED LAP

105 A. T-JOINT COVER PATCH DETAIL

6 105A\_T\_Joint\_Cover\_Patch\_Detail\_DWG  
1 1/2" = 1'-0"

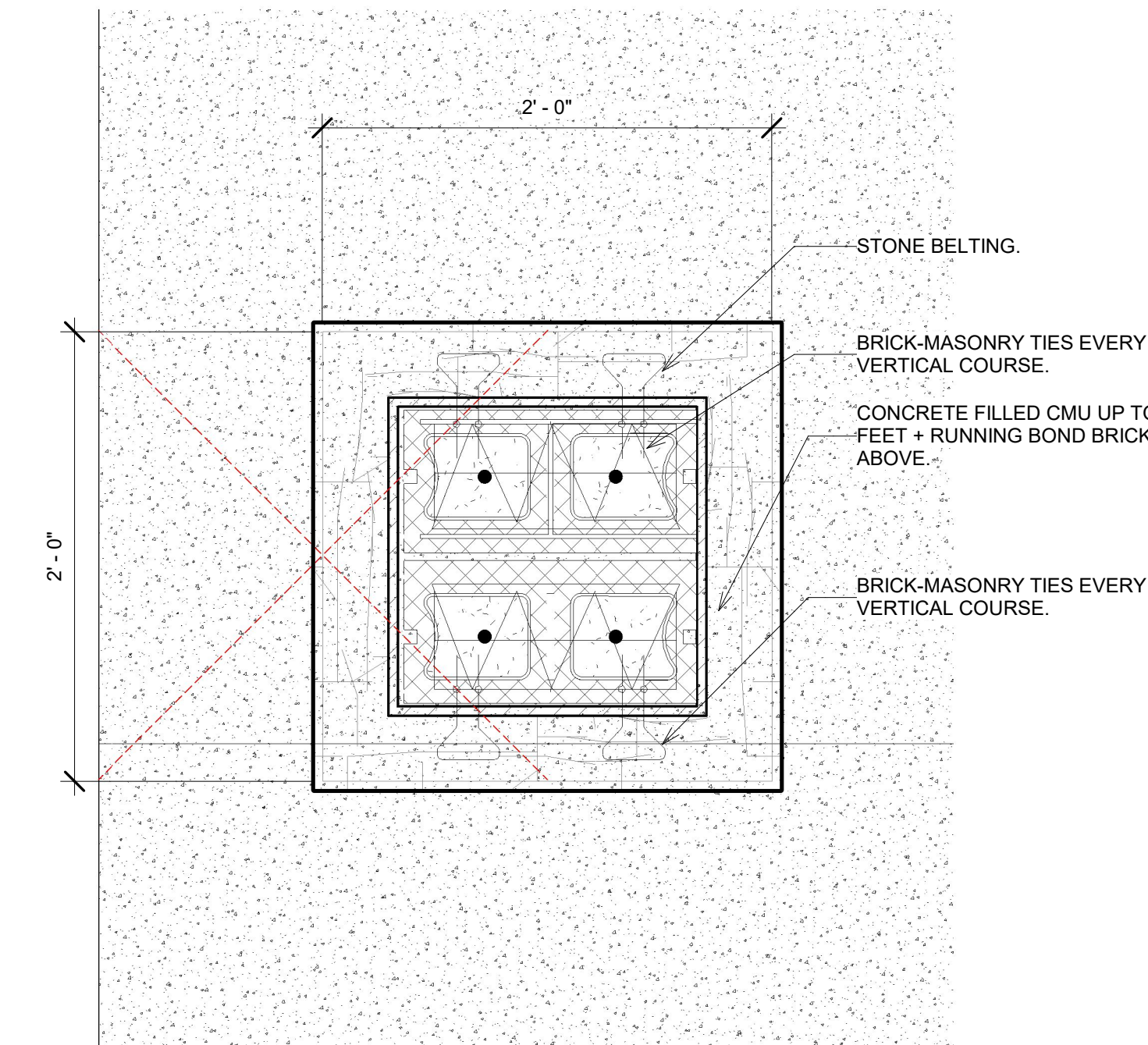


**NOTE**

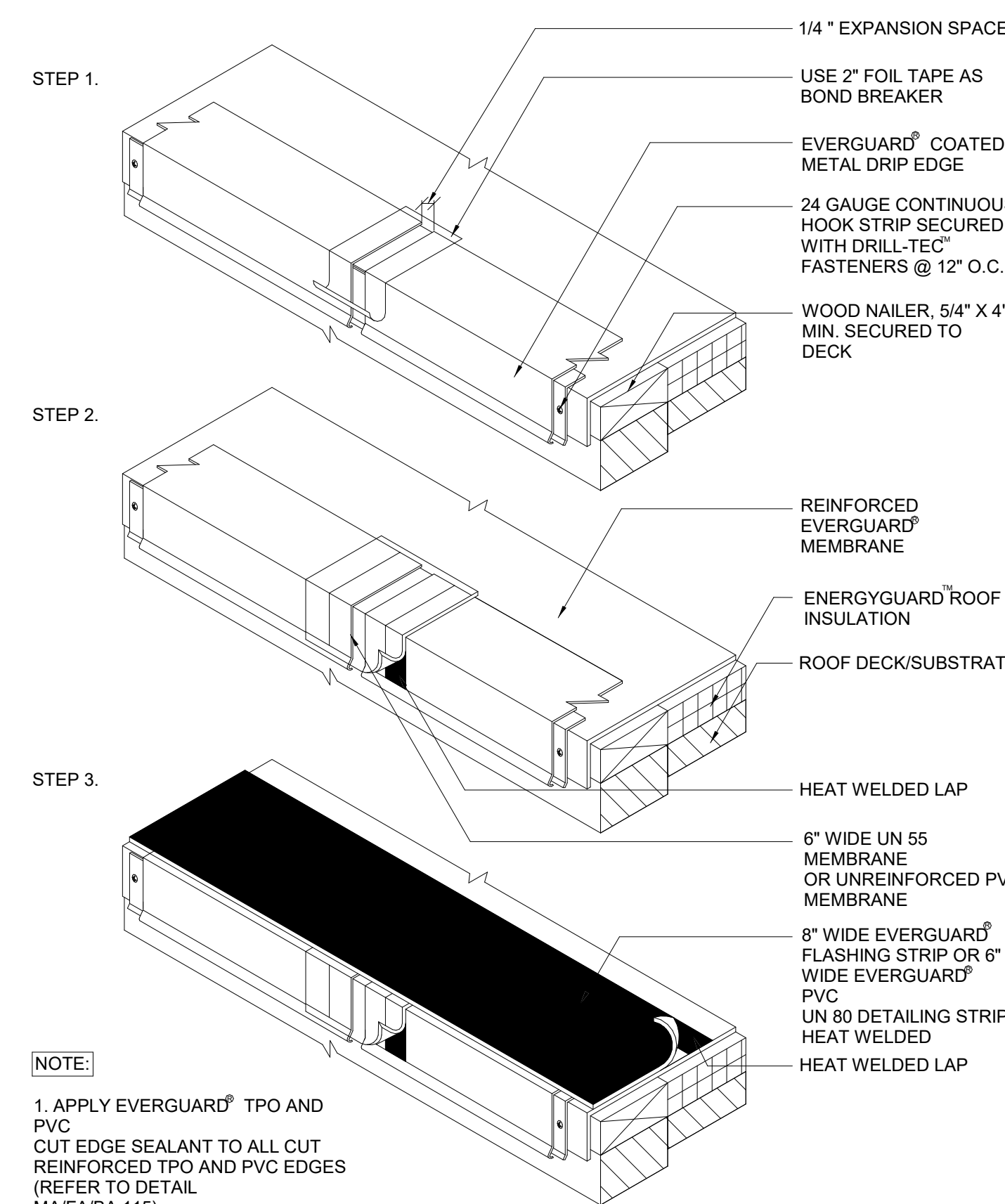
1. ADD BALLAST PER SPEC. FOR BA SYSTEMS
2. APPLY EVERGUARD® TPO AND PVC CUT EDGE SEALANT TO ALL CUT REINFORCED TPO AND PVC EDGES (REFER TO DETAIL MA/FA/BA 115).

202 COATED METAL GRAVEL STOP  
ROOF  
EDGE DETAIL

7 202\_Coated\_Metal\_Gravel\_Stop\_Roof\_Edge\_Detail\_DWG  
1 1/2" = 1'-0"



5 Level 1 - Column  
1 1/2" = 1'-0"

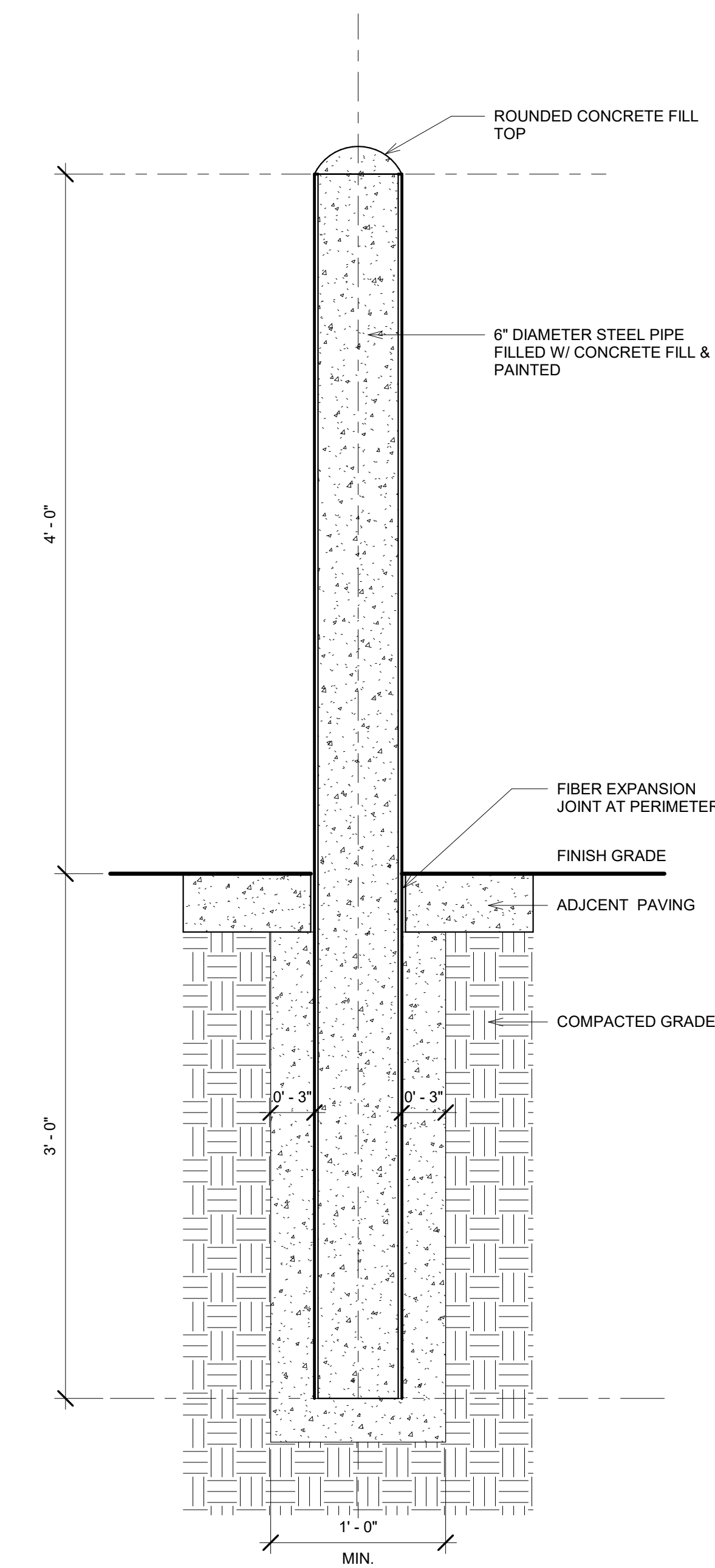


**NOTE**

1. APPLY EVERGUARD® TPO AND PVC CUT EDGE SEALANT TO ALL CUT REINFORCED TPO AND PVC EDGES (REFER TO DETAIL MA/FA/BA 115).

204 COATED METAL JOINT DETAIL

8 204\_Coated\_Metal\_Joint\_Detail\_DWG  
1 1/2" = 1'-0"



1 PIPE BOLLARD DETAIL 01  
1 1/2" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

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SHEET TITLE : MISCELLANEOUS  
DETAILS & TPO  
DETAILS

JOB NO. : 22-133

DRAWN BY : CPBIII

ISSUE DATE : 7-1-2022

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : **A3.3**

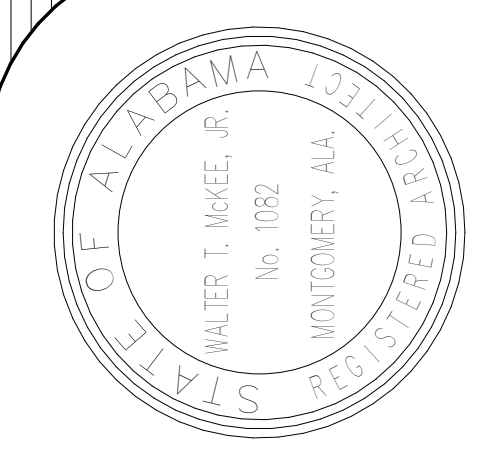
A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

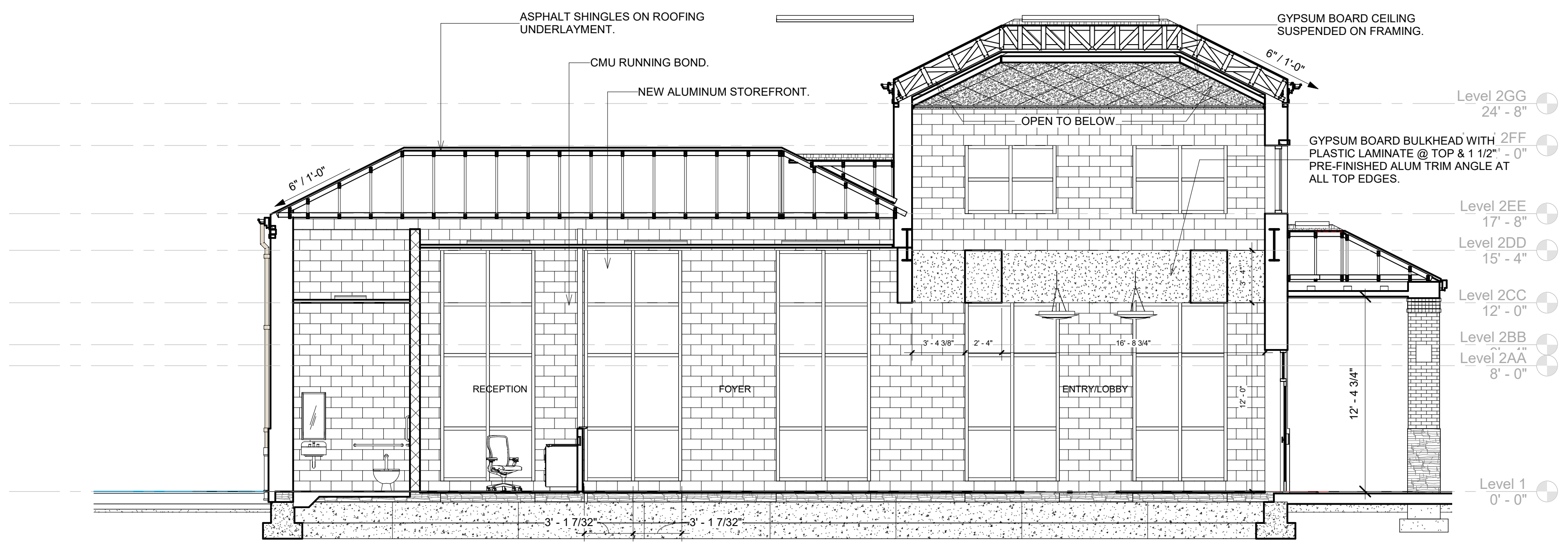
MORGAN COUNTY BOARD OF EDUCATION

**McKee and Associates**  
ARCHITECTS, INC.

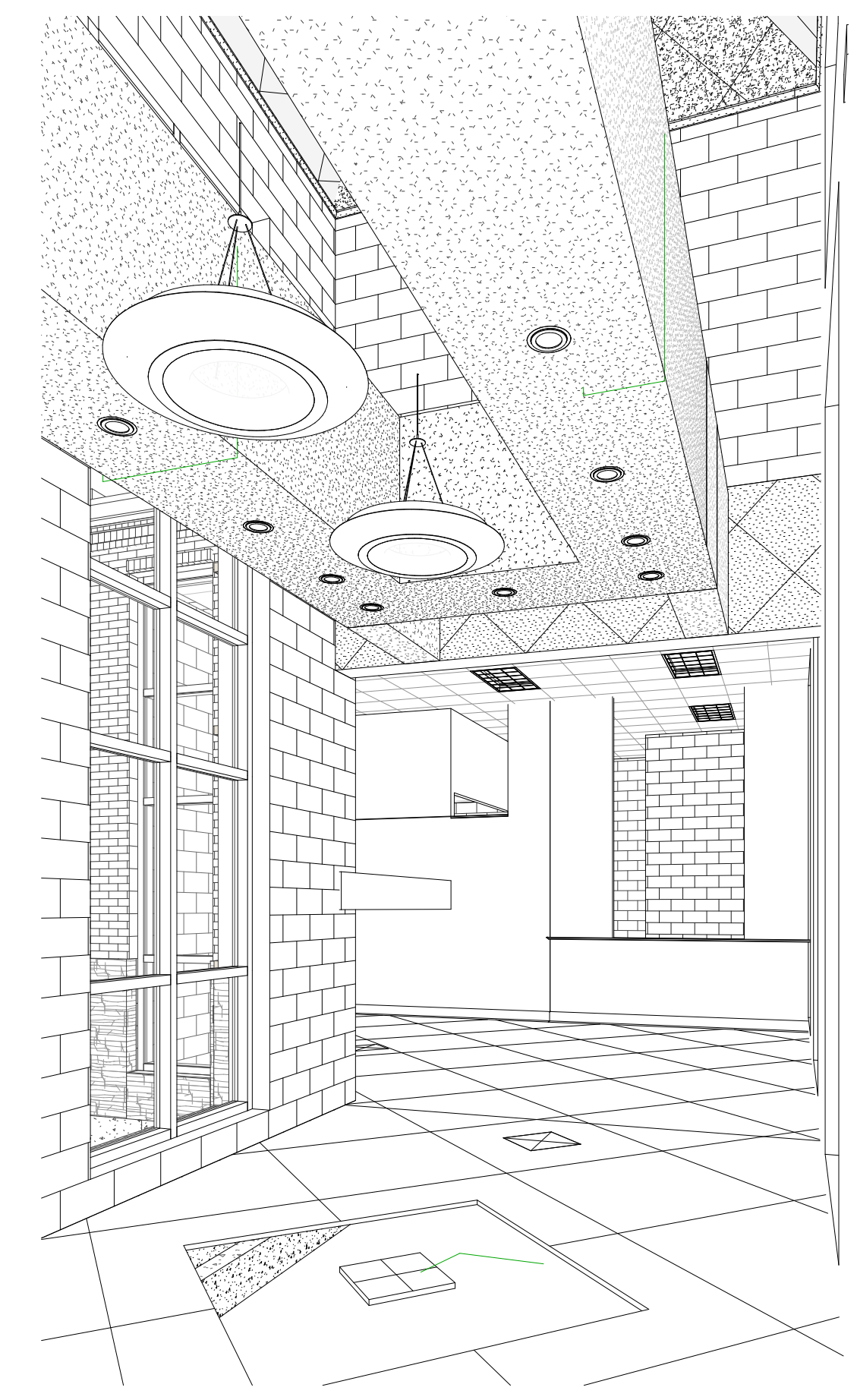
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



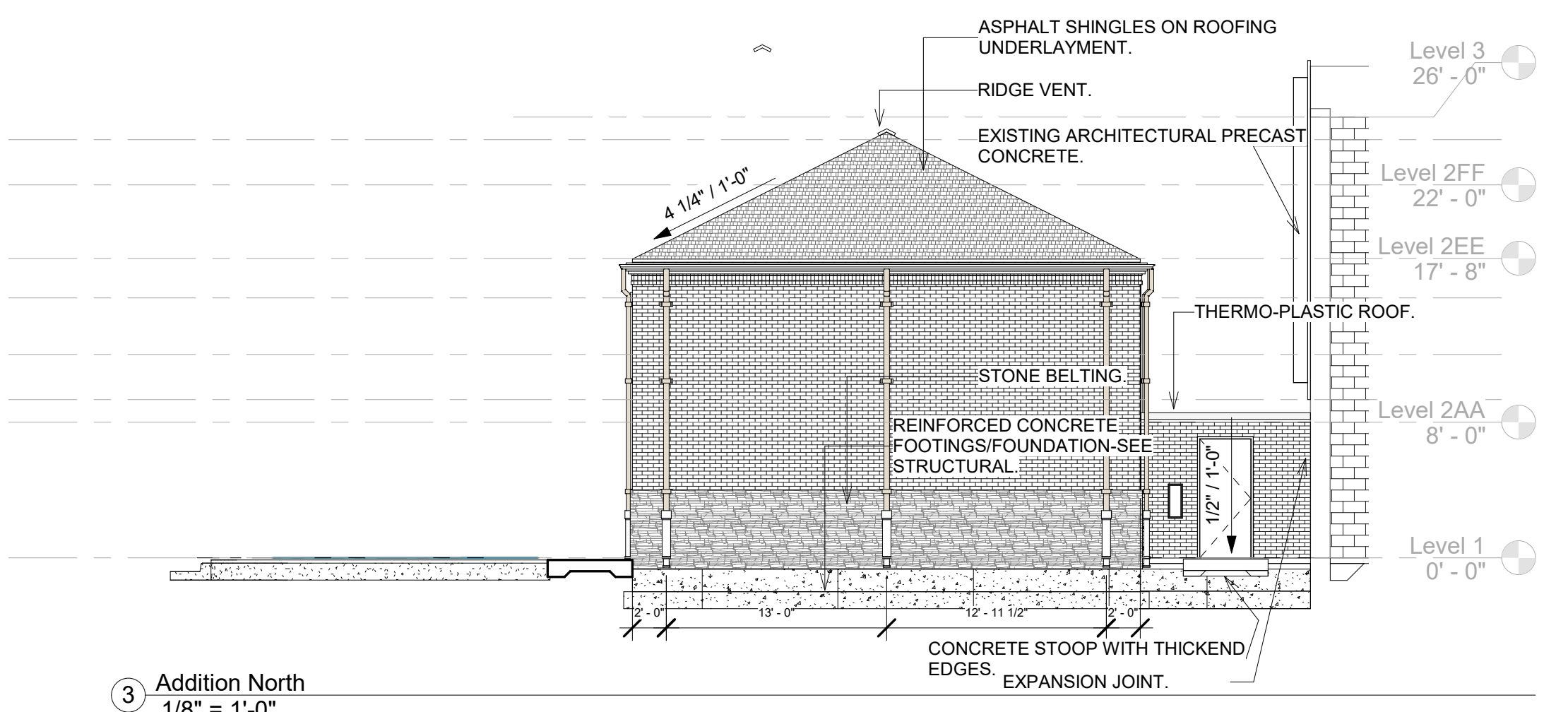
SHEET TITLE : ELEVATIONS  
 JOB NO. : 22-133  
 DRAWN BY : CPBIII  
 ISSUE DATE : 7-1-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **A4.1**



5 Longitudinal Section 6 @ Gyp Bd Bulkhead  
3/16" = 1'-0"



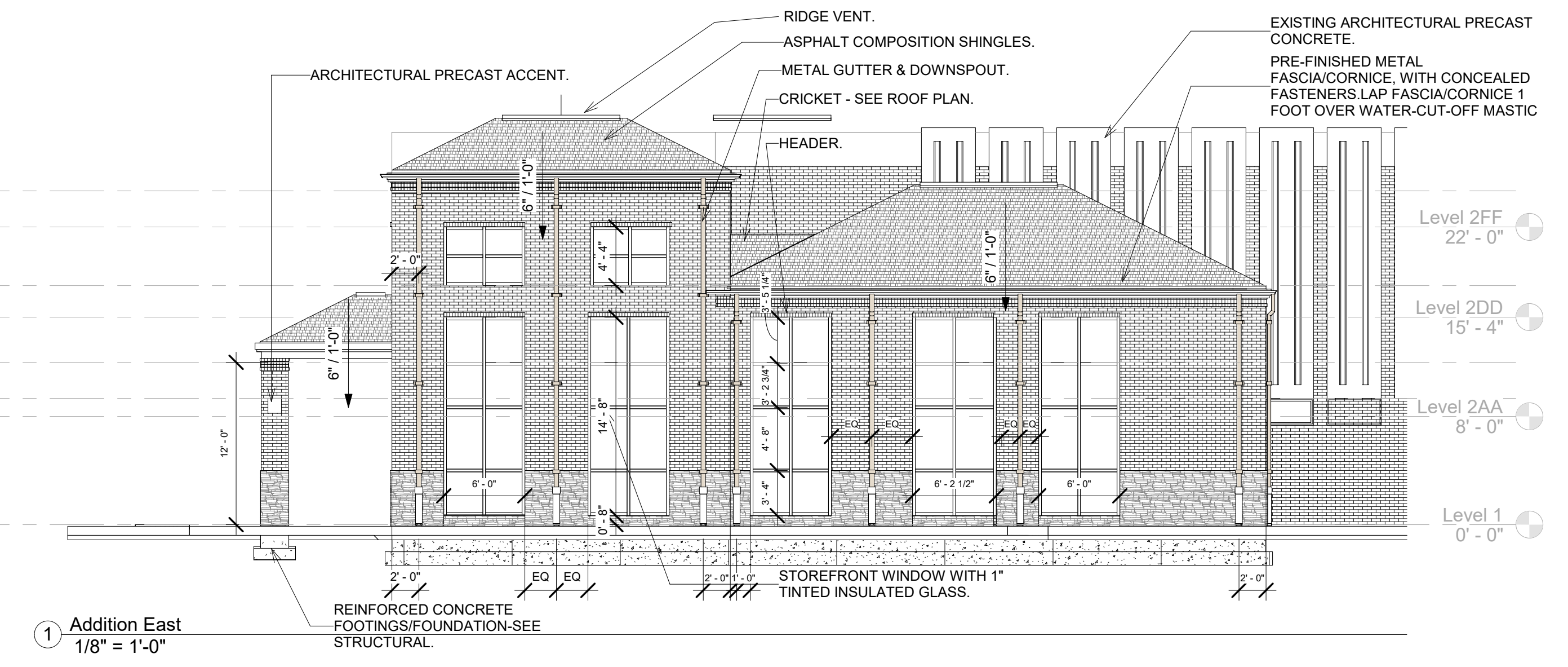
8 3D View 1 of Ceiling Feature



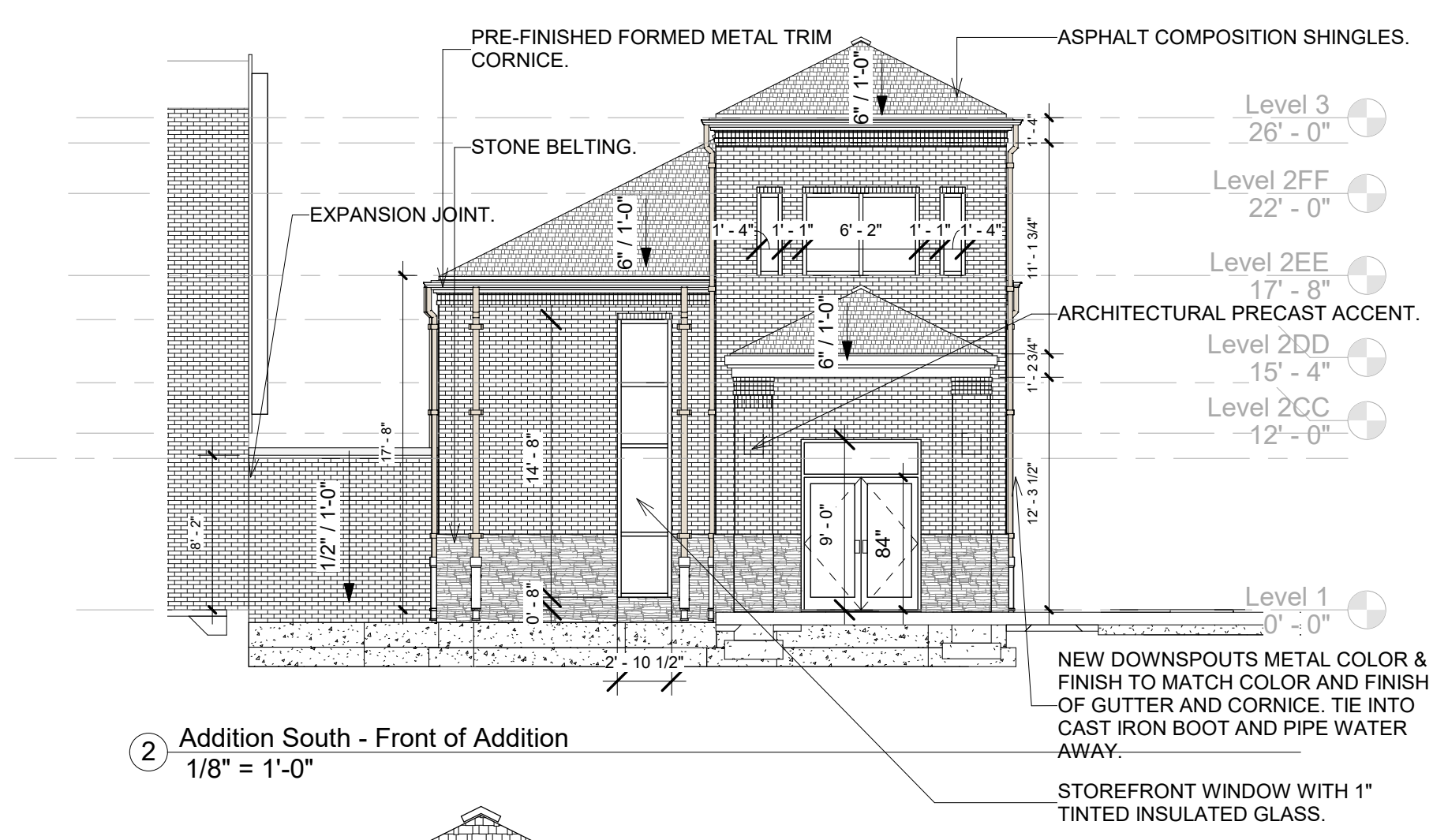
3 Addition North  
1/8" = 1'-0"



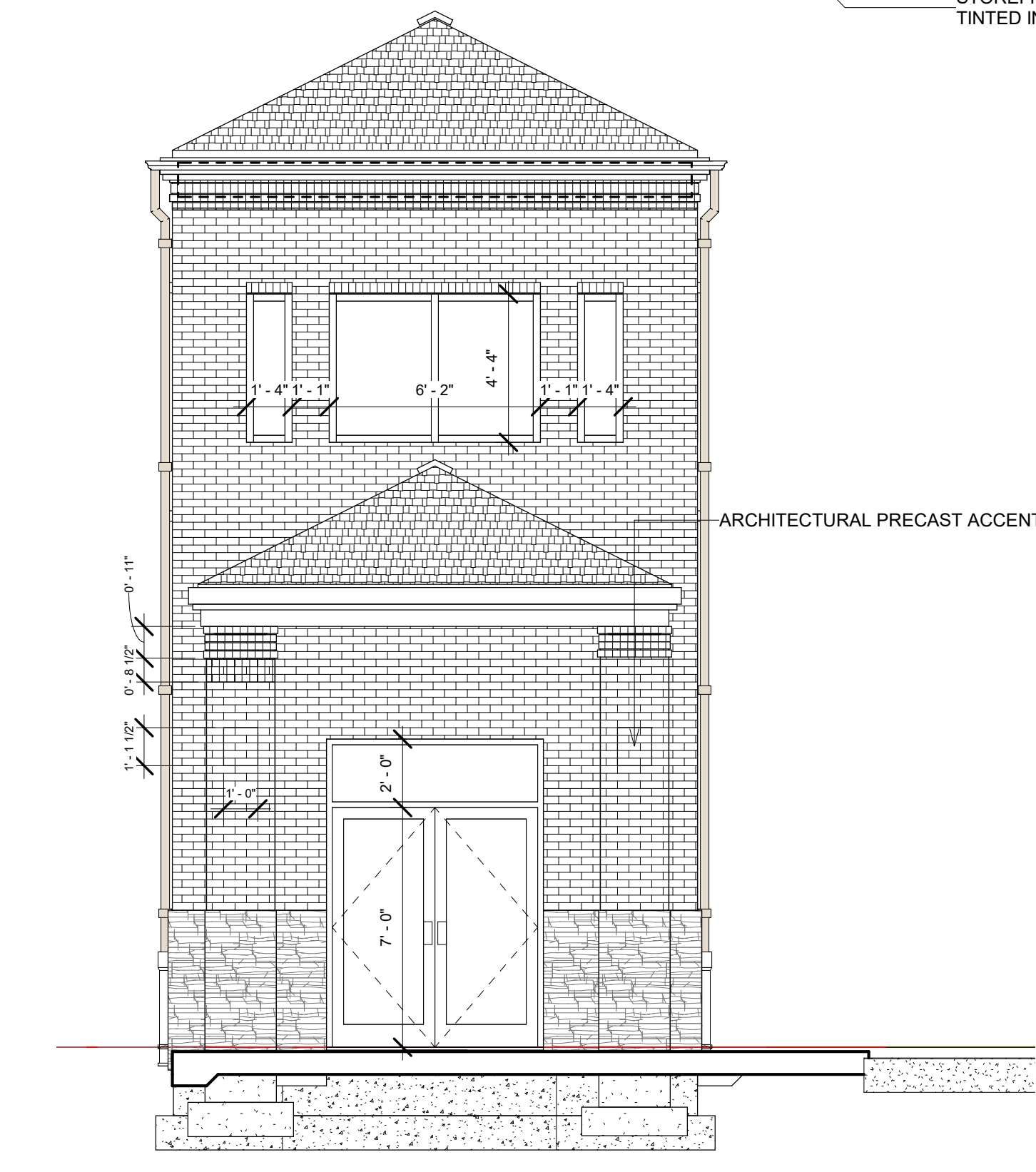
4 3D View 4 Front East Corner



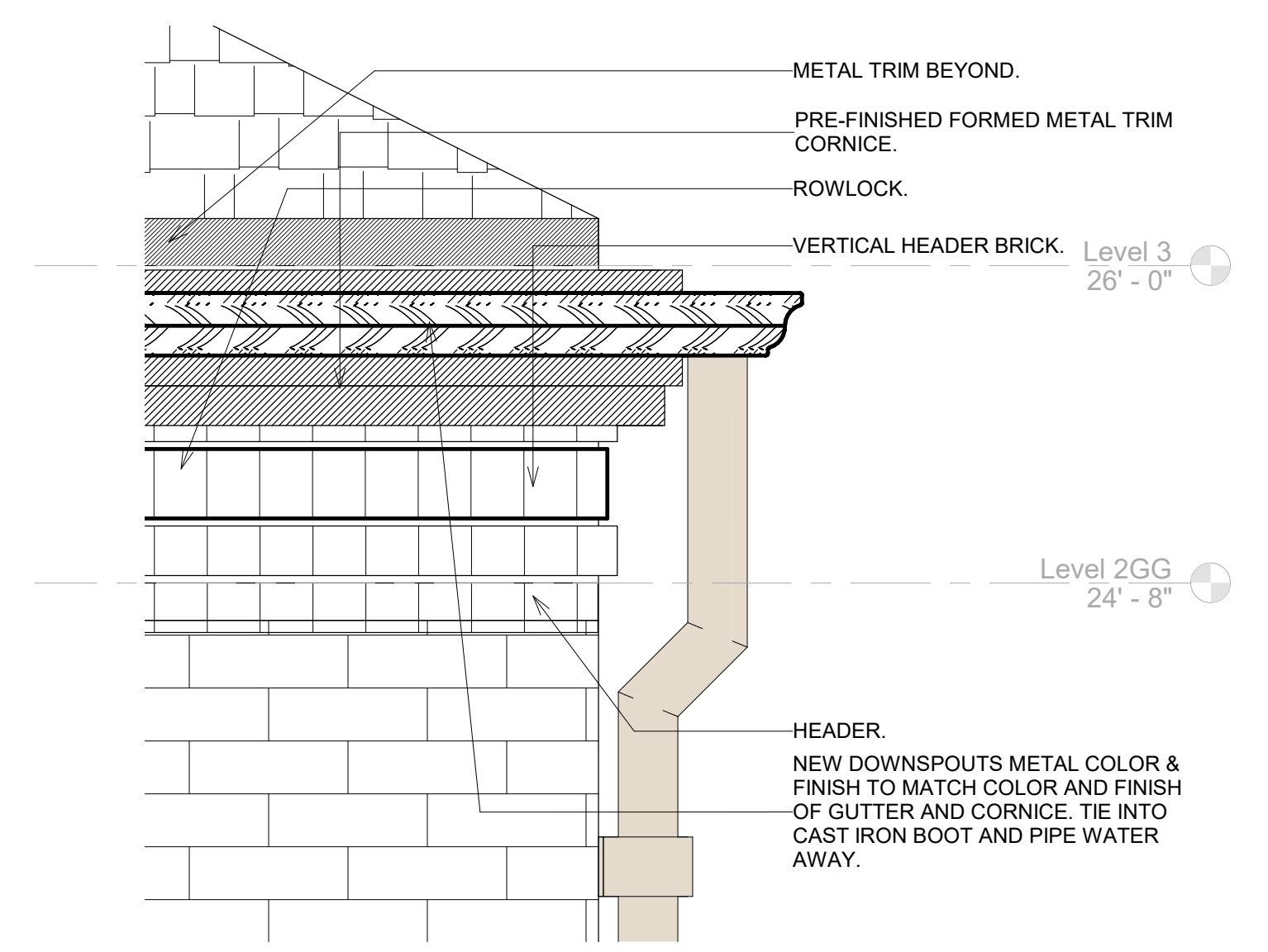
1 Addition East  
1/8" = 1'-0"



2 Addition South - Front of Addition  
1/8" = 1'-0"

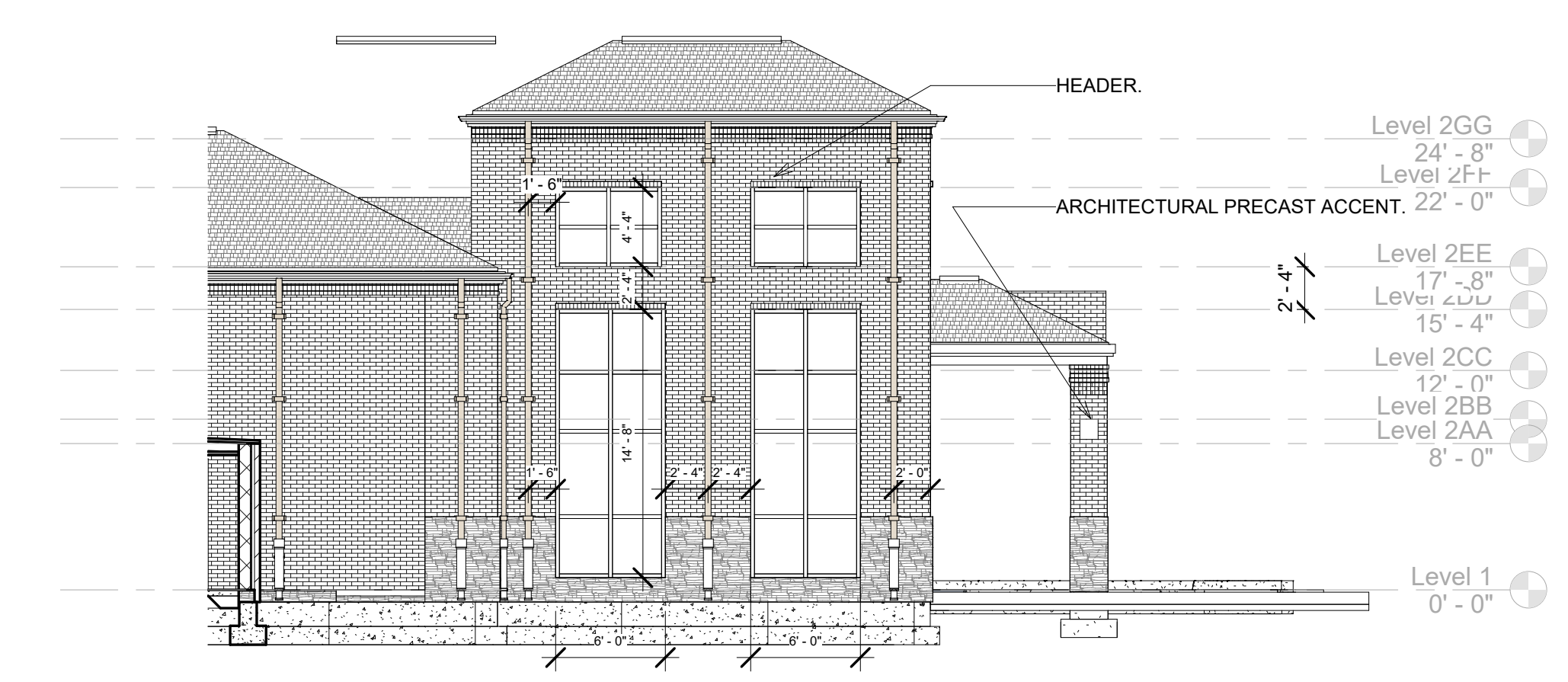


6 Porch Section 12  
1/4" = 1'-0"



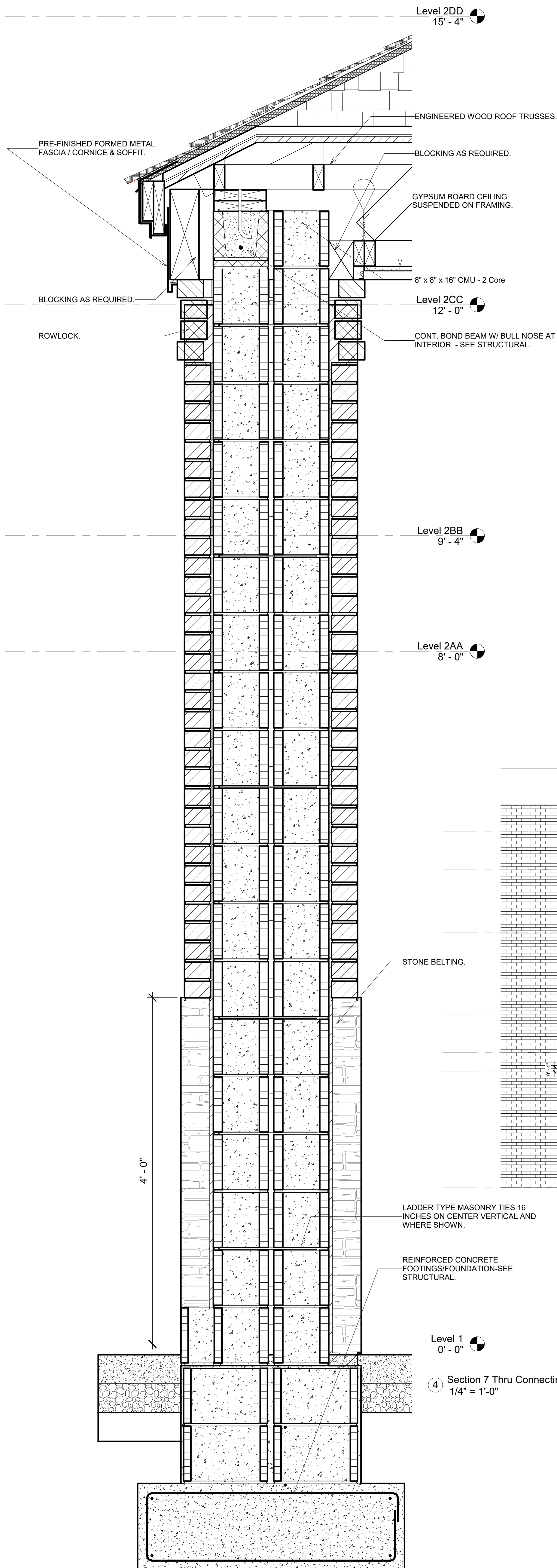
9 Addition South - Front of Addition Copy 1 - Callout 1  
1 1/2" = 1'-0"

7 {3D} Copy 1



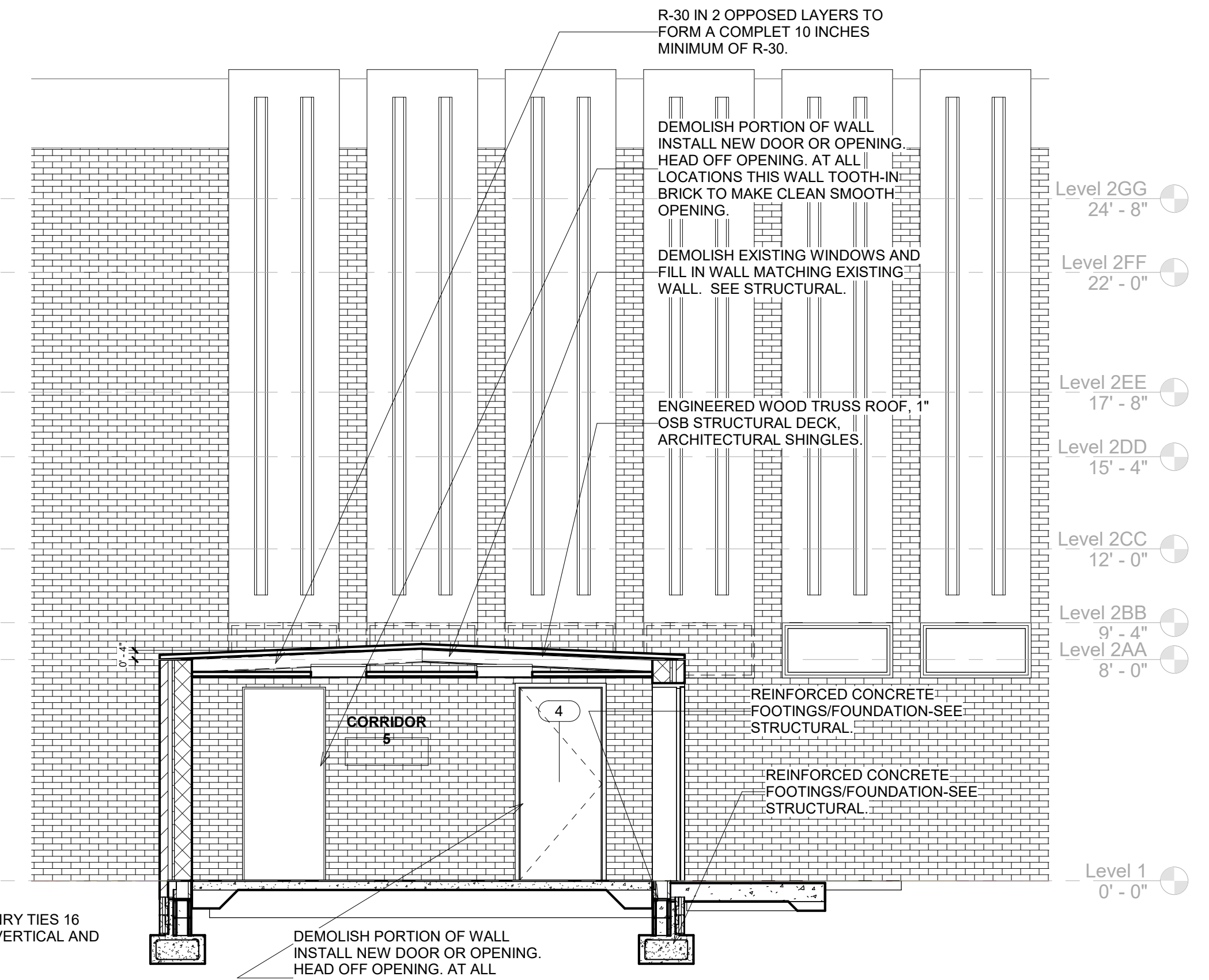
10 Addition West  
1/8" = 1'-0"



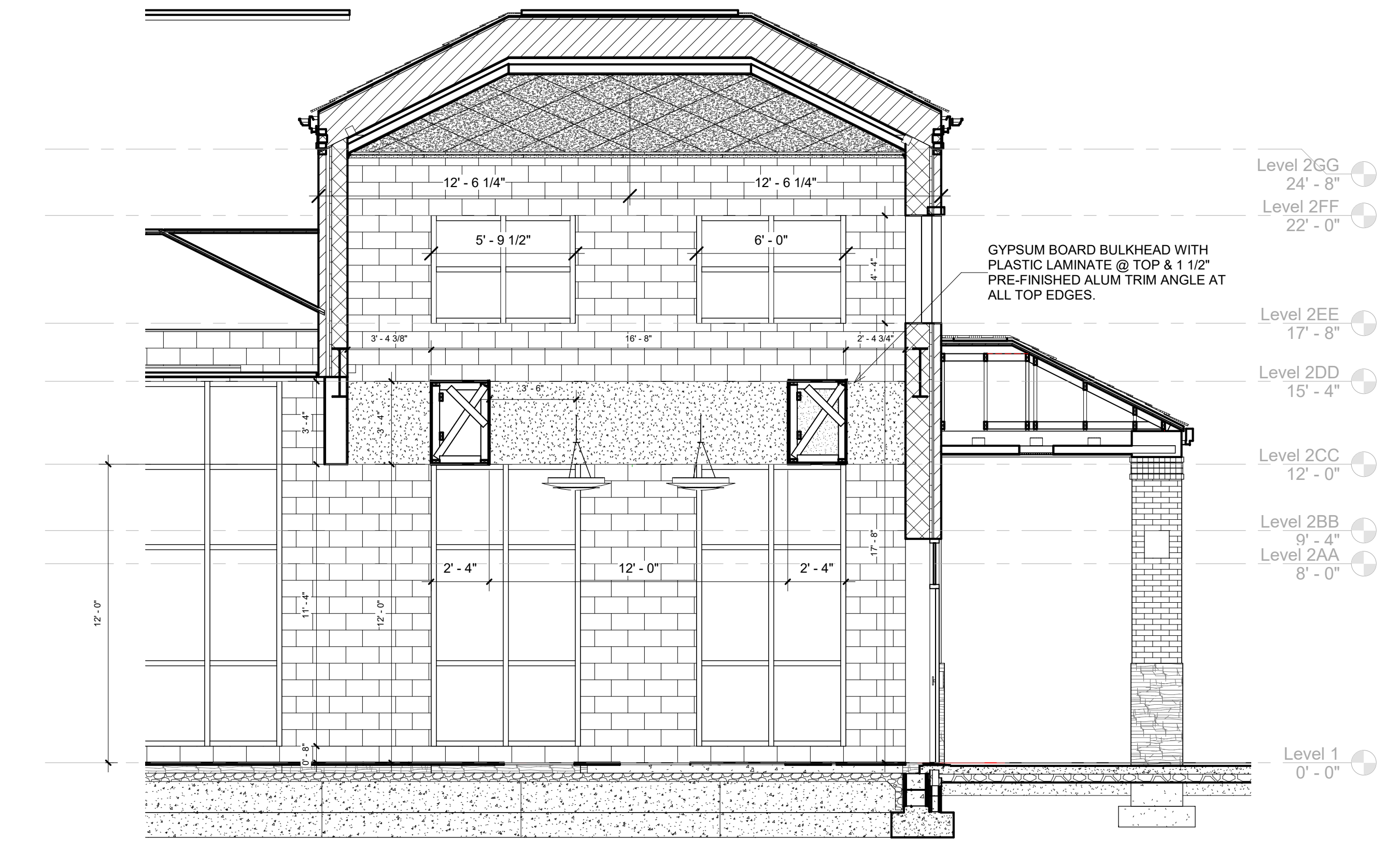


2 Porch Column Section 13  
1 1/2" = 1'-0"

4 Section 7 Thru Connecting Reception  
1/4" = 1'-0"



3 Section 22 @ Beam  
1/4" = 1'-0"



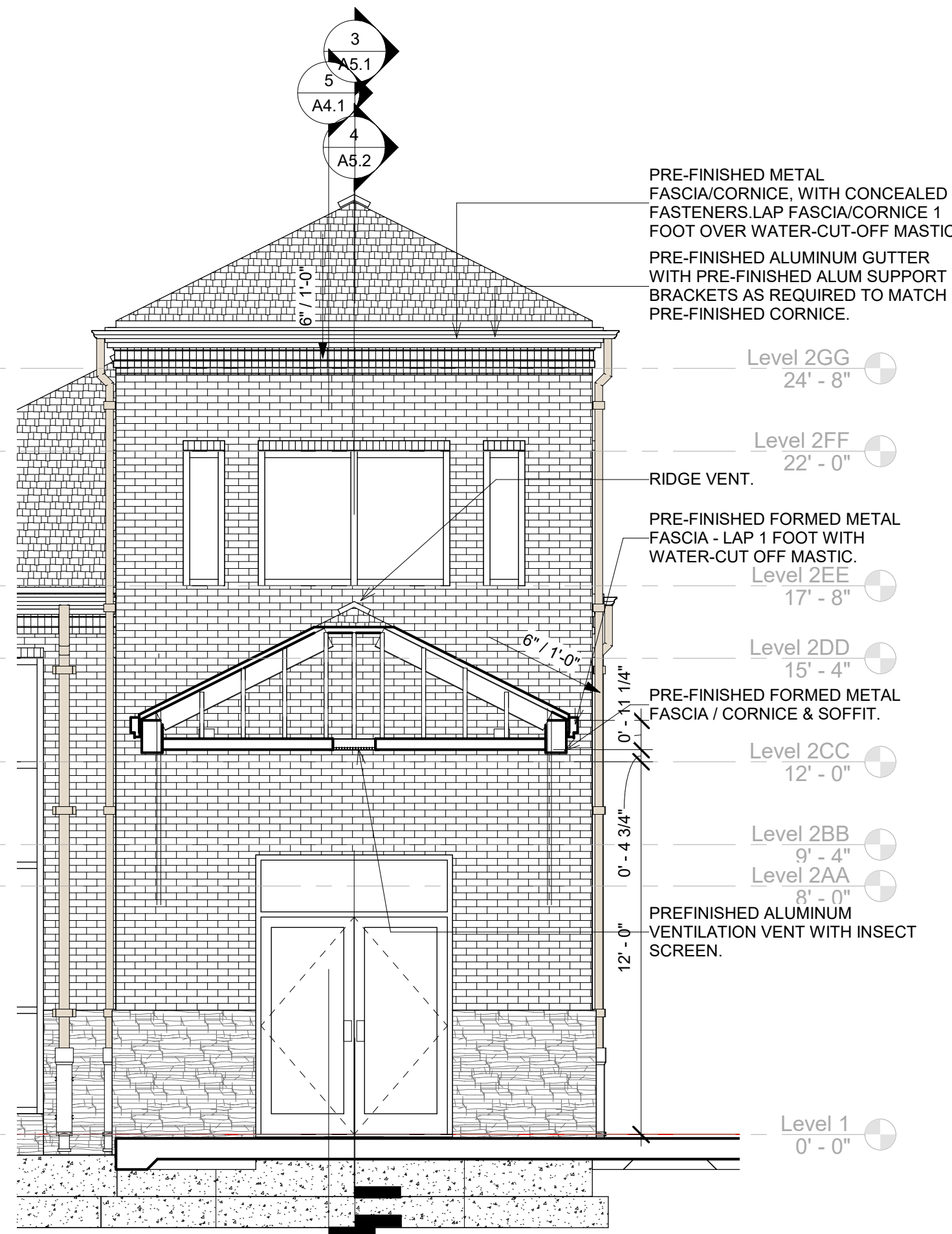
1 Section 1 Thru Ceiling Feature 1/4  
1/4" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

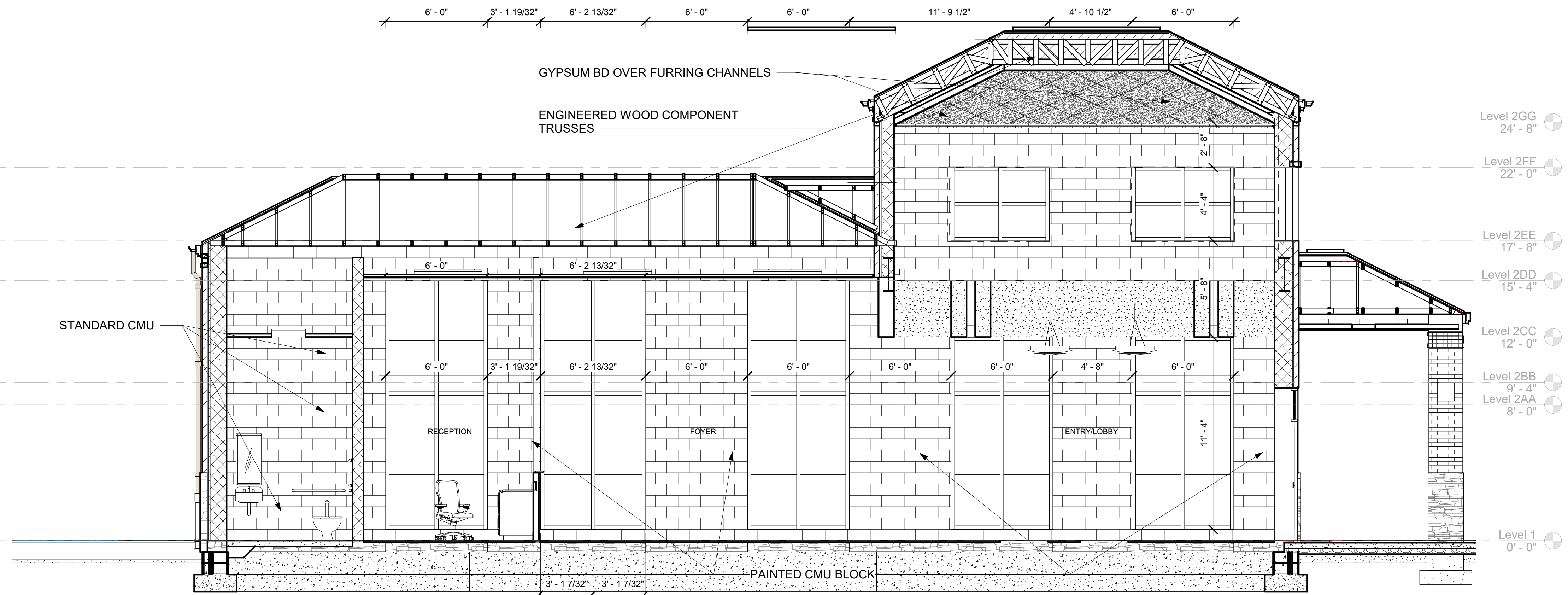
**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



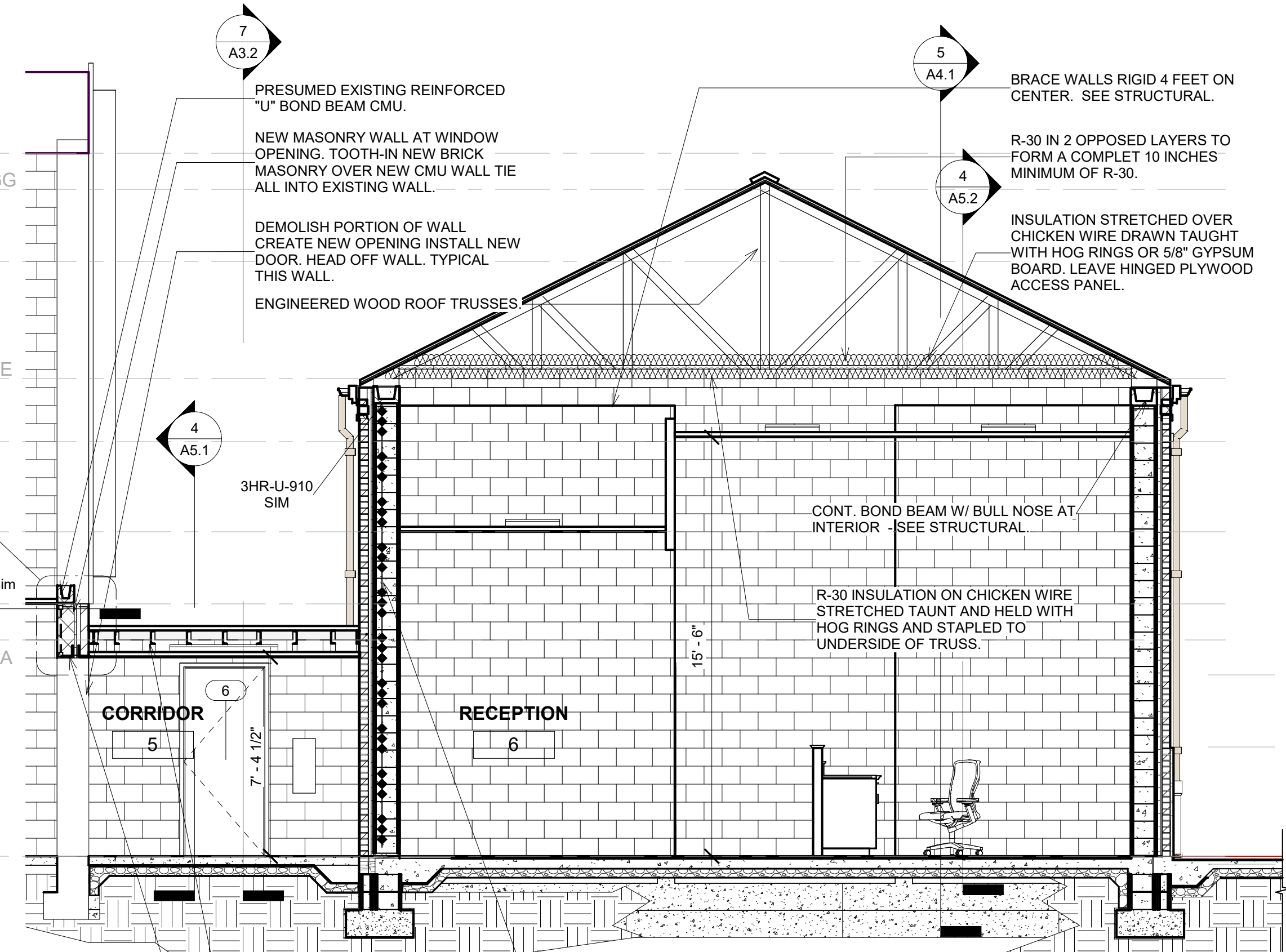
SHEET TITLE : BUILDING SECTIONS  
JOB NO. : 22-133  
DRAWN BY : CPBIII  
ISSUE DATE : 7-1-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **A5.1**



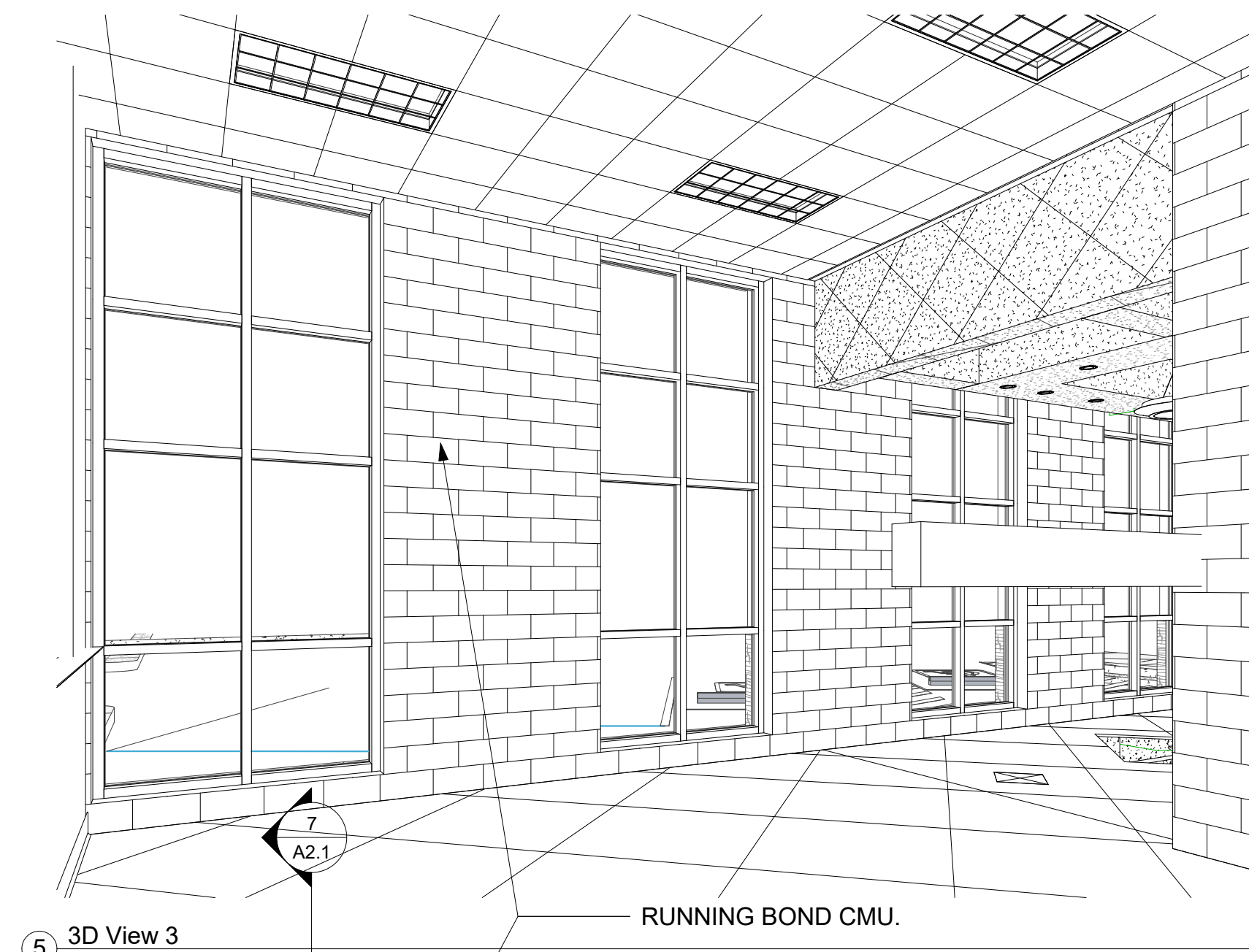
2 Section 25 @ Front Canopy  
 1/4" = 1'-0"



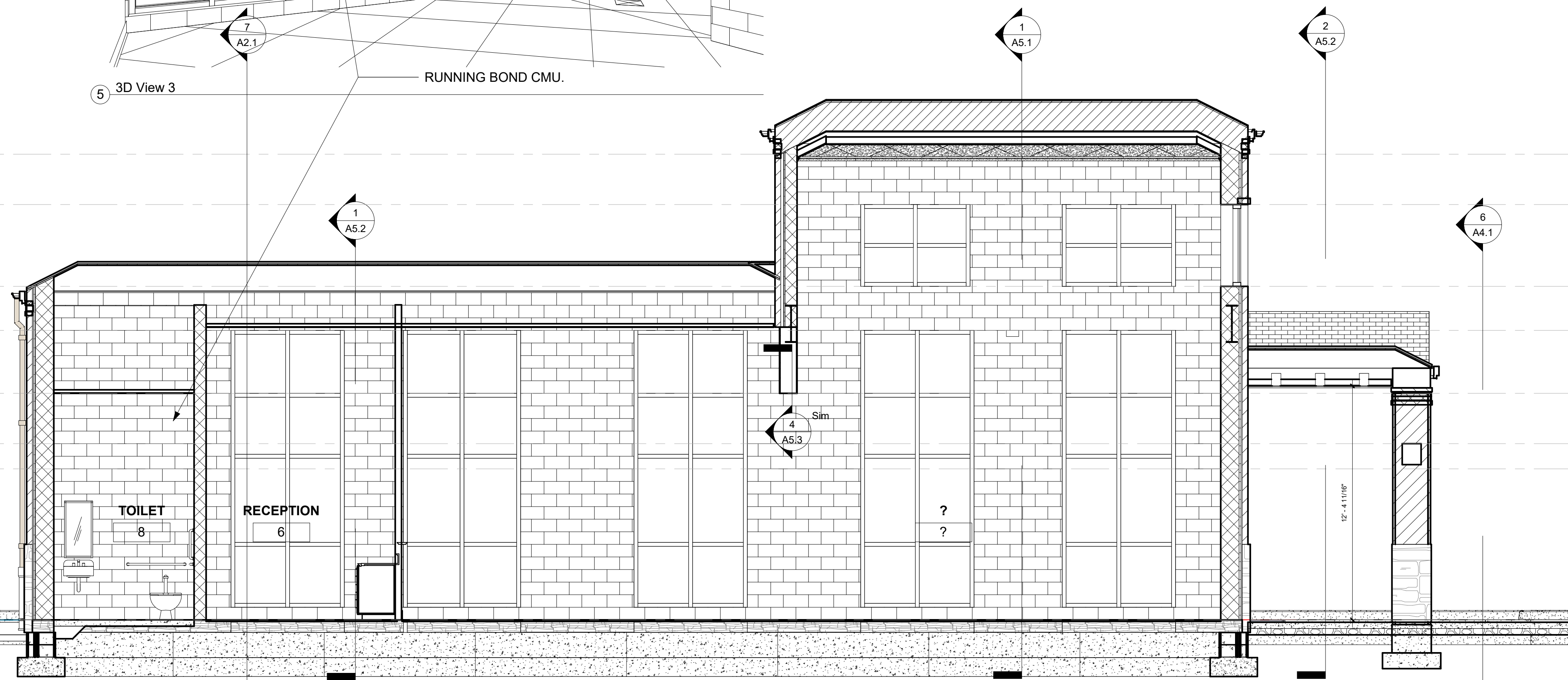
4 Longitudinal Section 6 Copy 1  
 1/4" = 1'-0"



1 Section 9 @ Connector  
 1/4" = 1'-0"



5 3D View 3



3 Section 25 Longitudinal  
 1/4" = 1'-0"

Table 1. Equivalent thickness (in.) for standard concrete block widths

Nominal Block Width (in.)	Block Core Treatment	
	Empty or Partial Fill Cores	Solid Fill Cores
4	2.7	3.6
6	3.1	3.6
8	4.0	7.6
10	4.5	9.6
12	5.1	15.6

\*Cores can be filled with grout, loose fill insulation, or aggregate meeting ASTM C-33 (ref. 4) or C-331 (ref. 5) requirements.

Table 2. Minimum equivalent thickness required (in.) for standard northwest block wall ratings

Fire Rating			
1 Hr.	2 Hr.	3 Hr.	4 Hr.
2.52	3.80	4.78	5.60

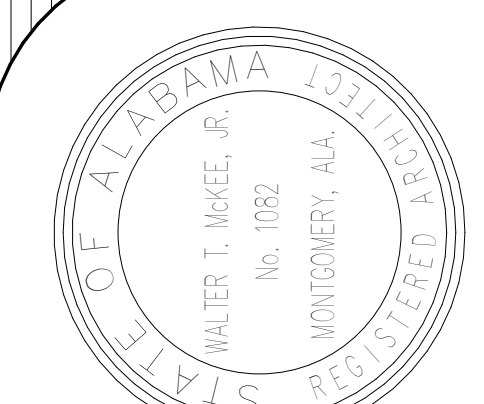
A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

MORGAN COUNTY BOARD OF EDUCATION

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SHEET TITLE : BUILDING SECTIONS

JOB NO. : 22-133

DRAWN BY : cpbii

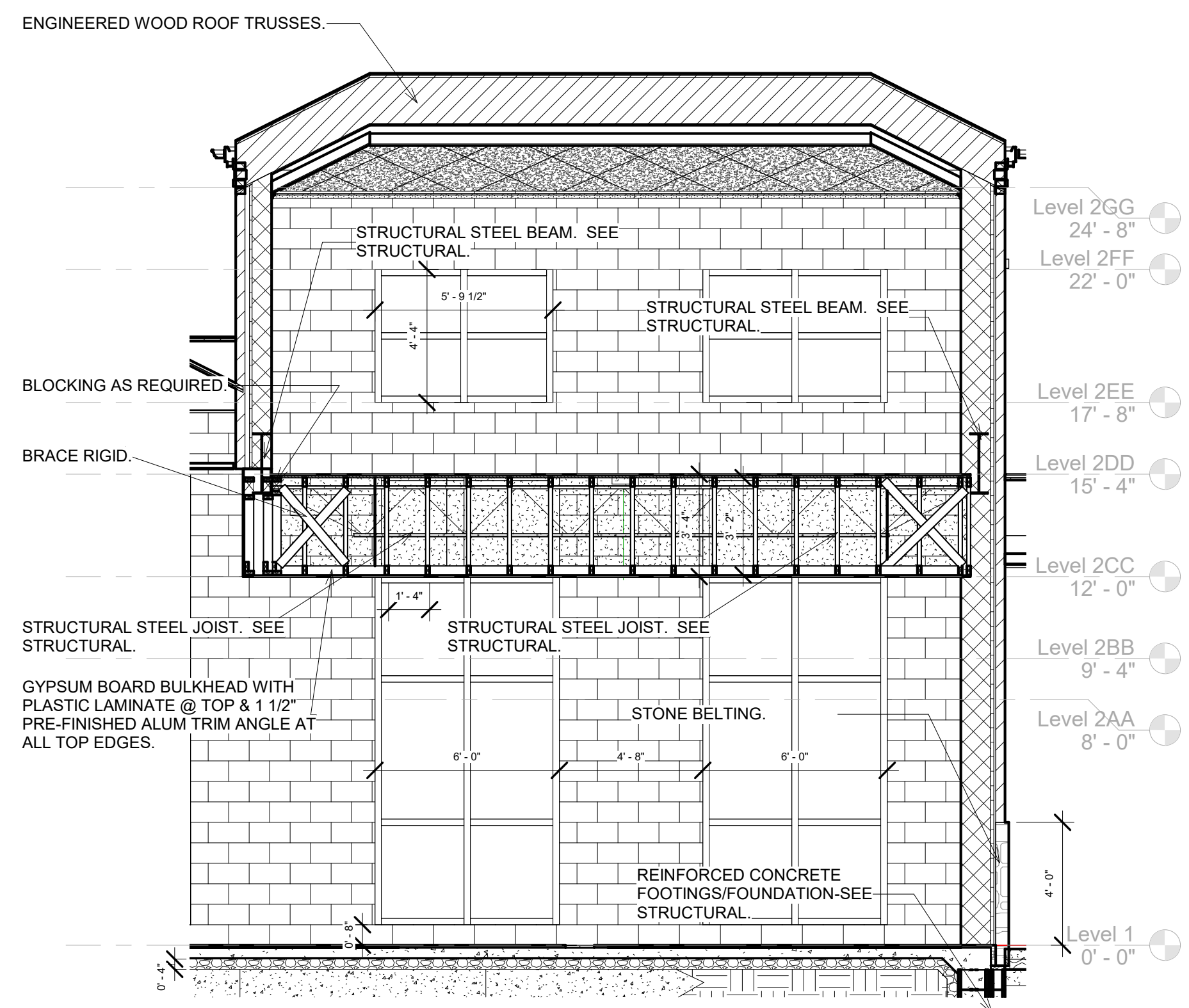
ISSUE DATE : 7-1-2022

REVISED DATE :

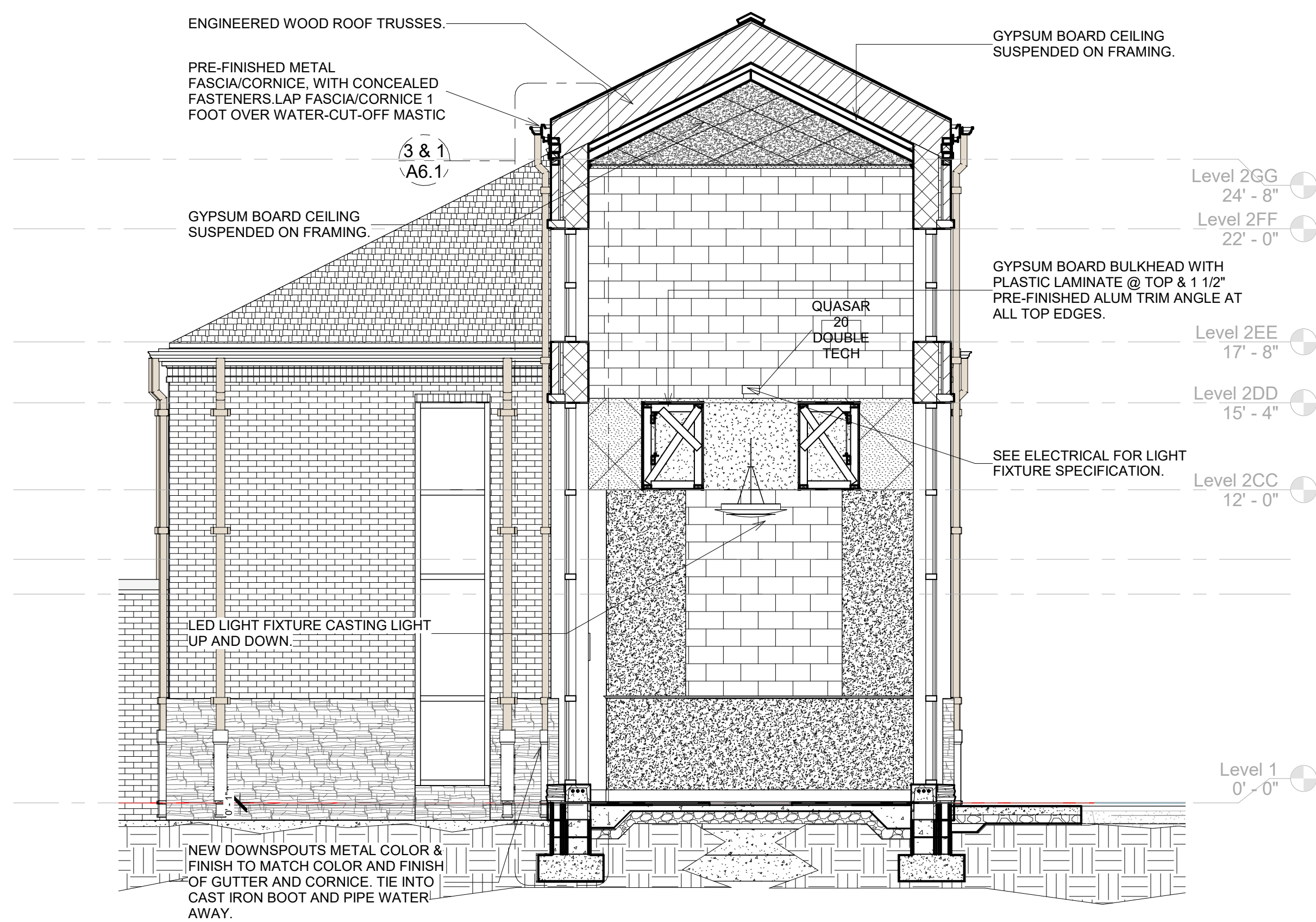
REVISED DATE :

REVISED DATE :

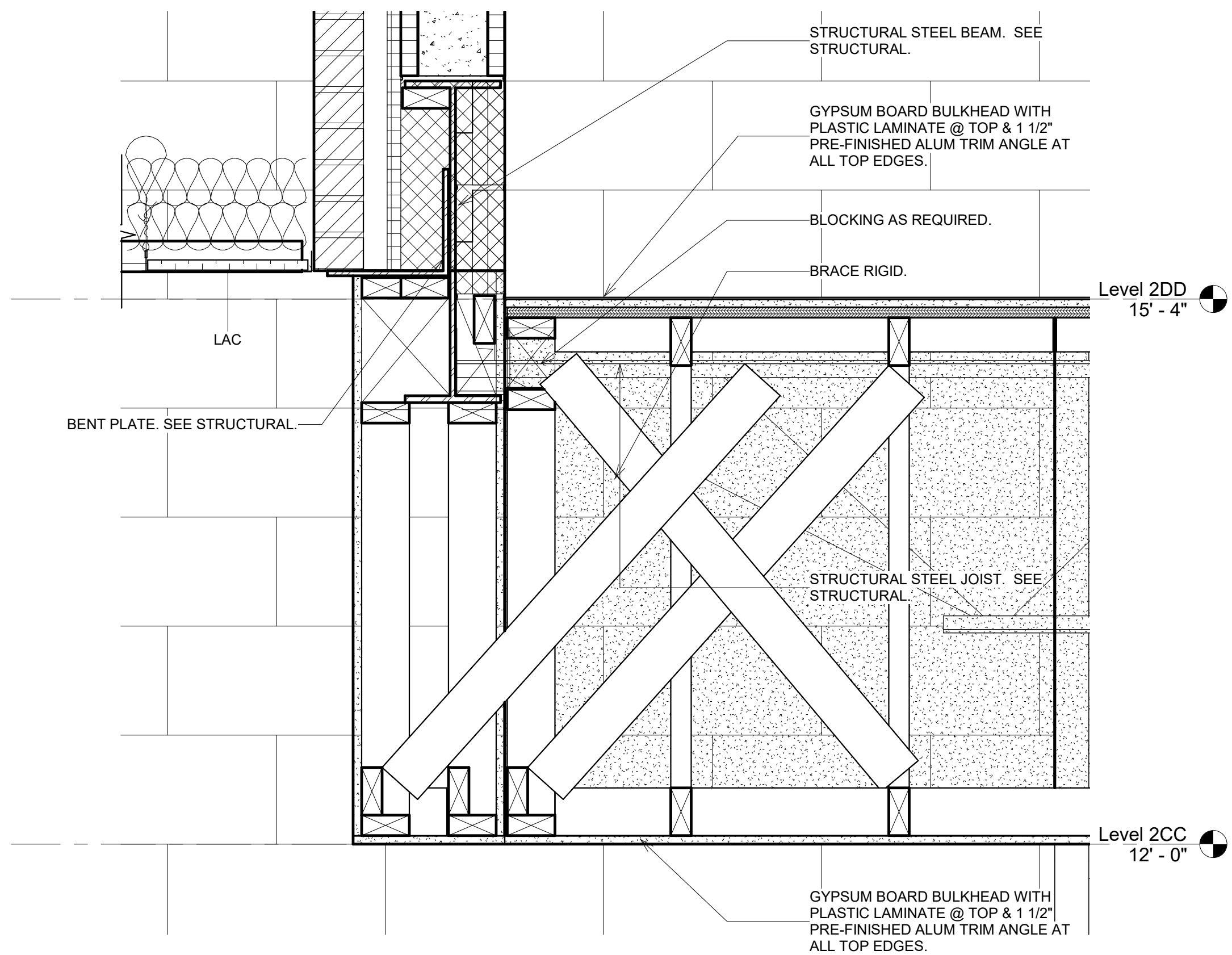
SHEET NO. : A5.2



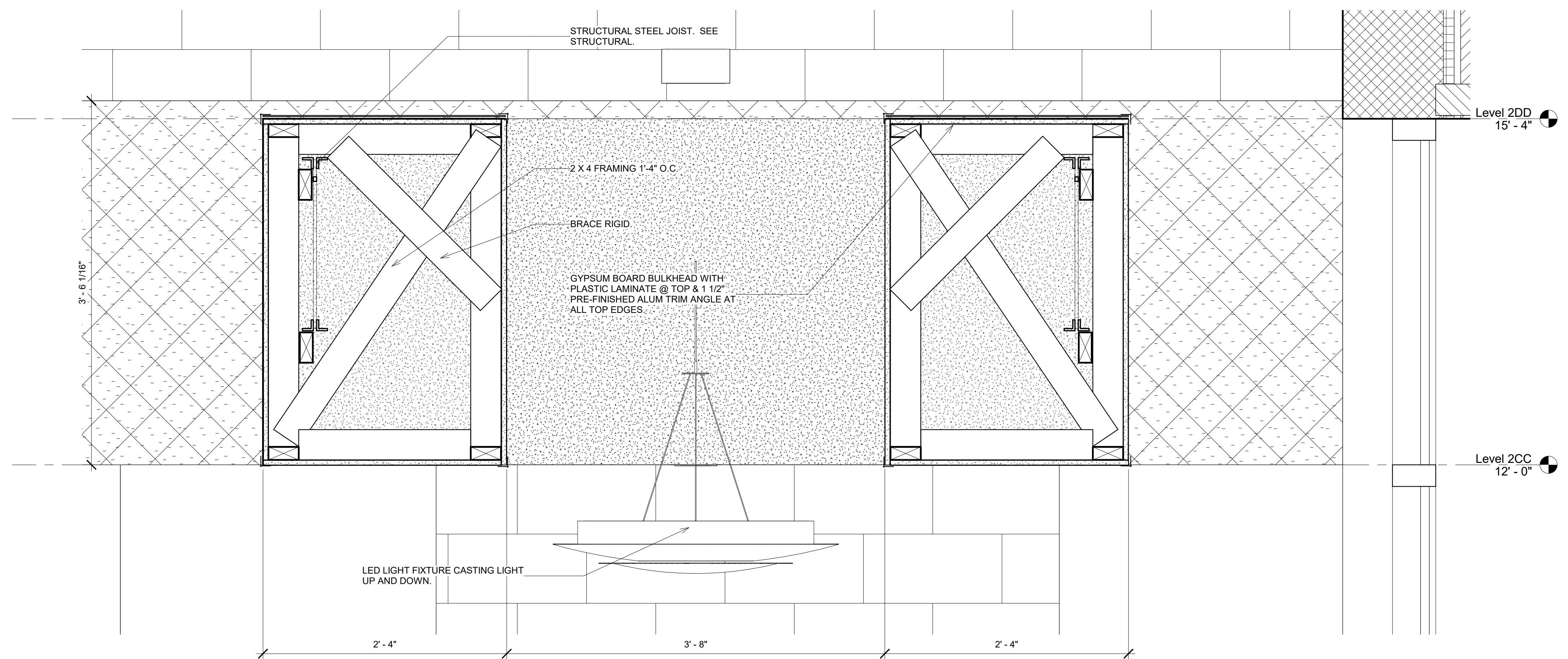
1 LONGITUDINAL SECTION GYP BD Bulkhead  
1/4" = 1'-0"



2 Section 25 Bldg Cross Section Gyp Bd Bulkhd  
1/4" = 1'-0"



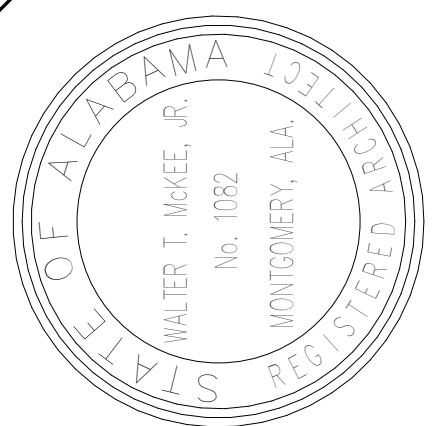
4 LONGITUDINAL SECTION GYP BD Bulkhead Copy 1  
1 1/2" = 1'-0"



3 Section 25 Cross Section Gyp Bd Bulkhd Large  
1 1/2" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

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ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833



SHEET TITLE : BUILDING SECTIONS

JOB NO. : 22-133

DRAWN BY : CPBIII

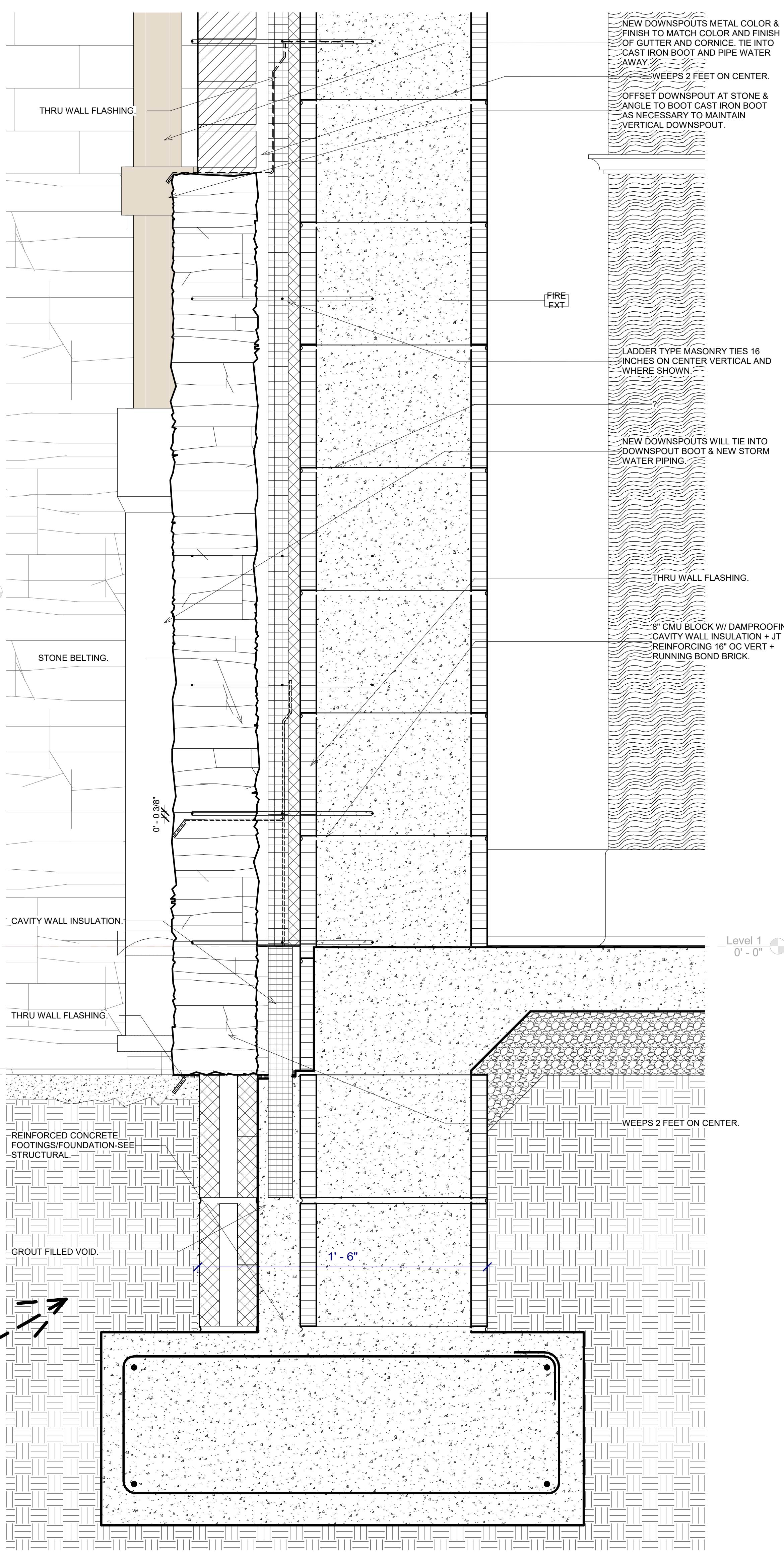
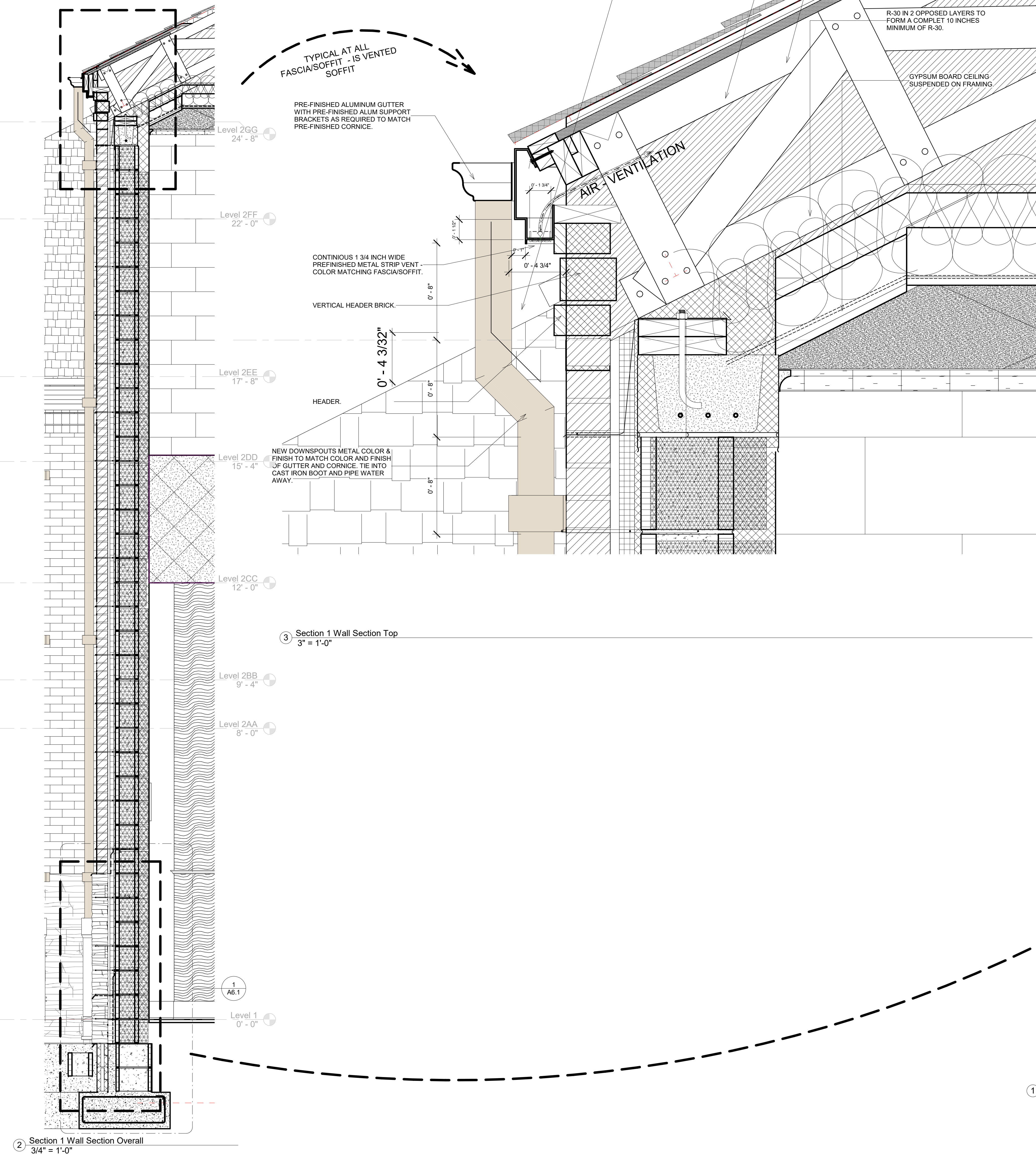
ISSUE DATE : 7-1-2022

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : A5.3

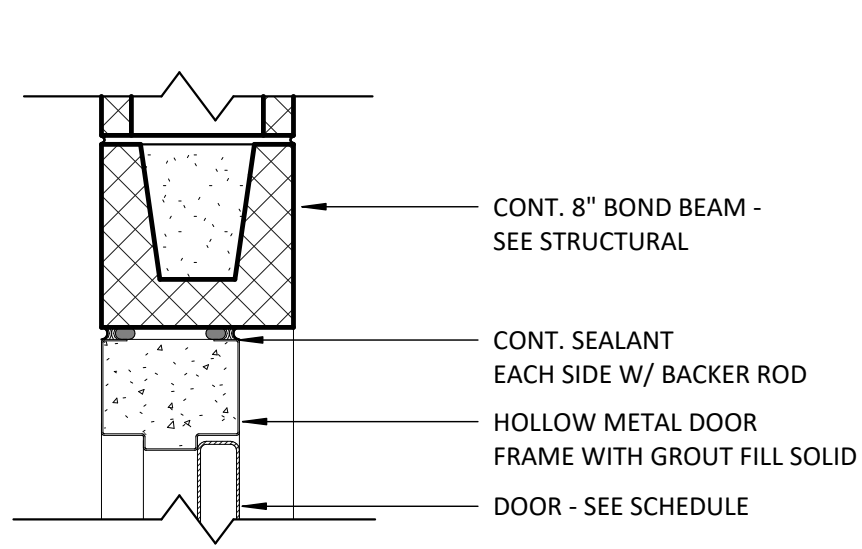


A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

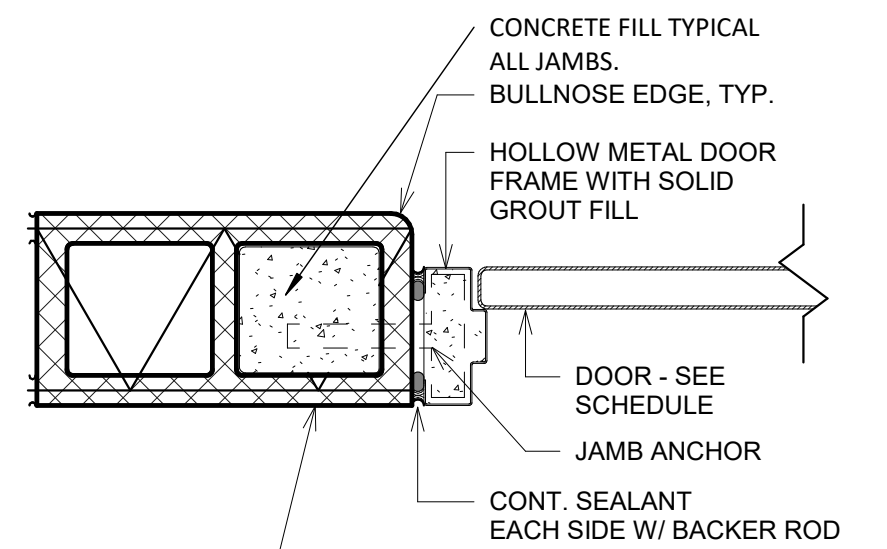
**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



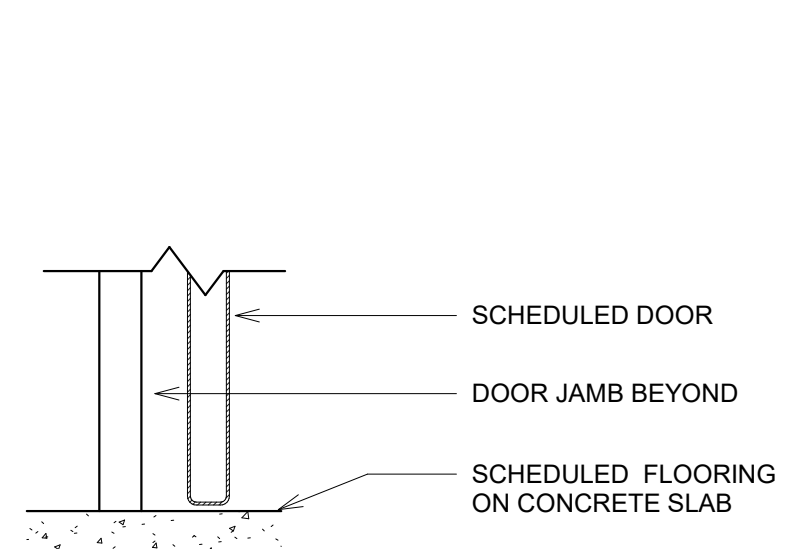
SHEET TITLE :	WALL SECTIONS DETAILS
JOB NO. :	22-133
DRAWN BY :	JDE
ISSUE DATE :	7-1-2022
REVISED DATE :	
REVISED DATE :	
REVISED DATE :	
SHEET NO. :	<b>A6.1</b>



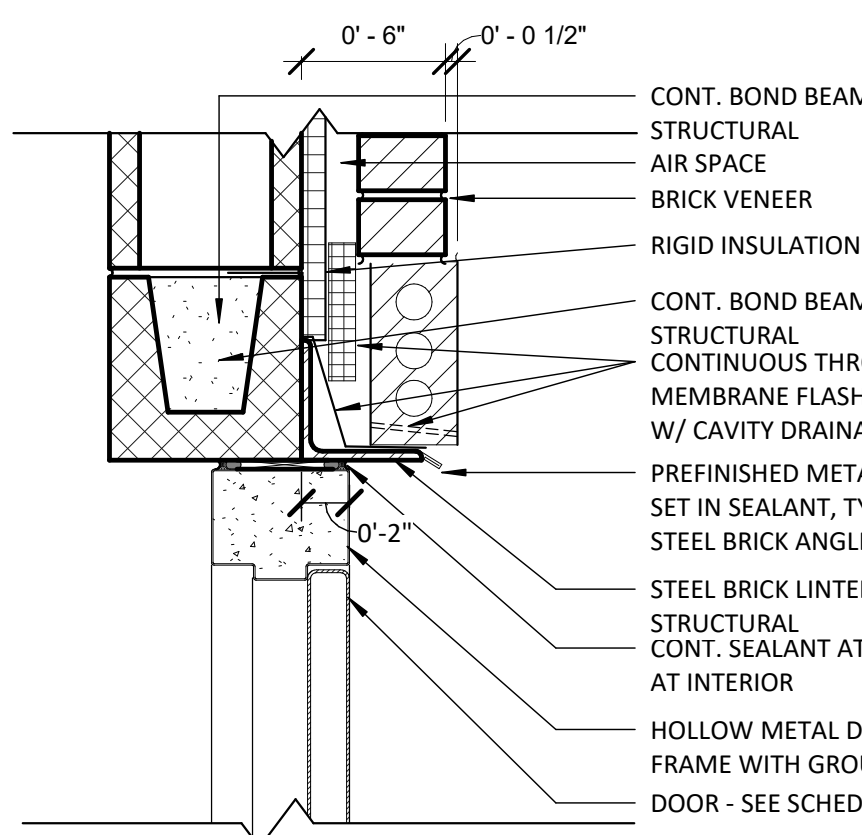
01 Door Detail - HM Frame - INT HEAD  
(2) 1 1/2" = 1'-0"



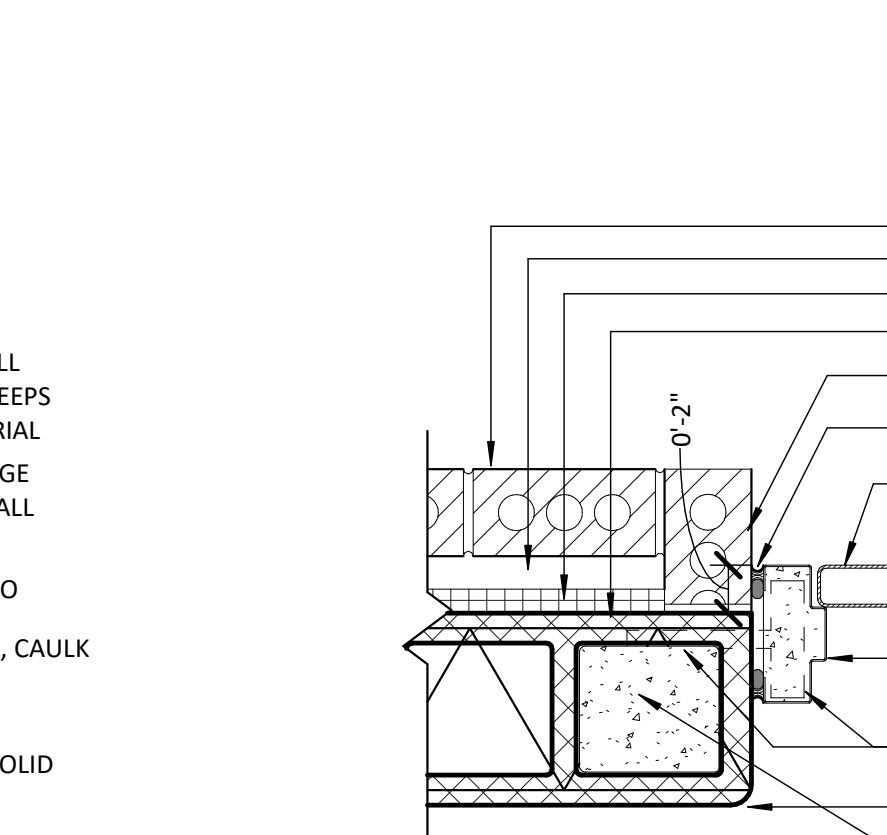
02 Door Detail - HM Frame - INT JAMB  
(3) 1 1/2" = 1'-0"



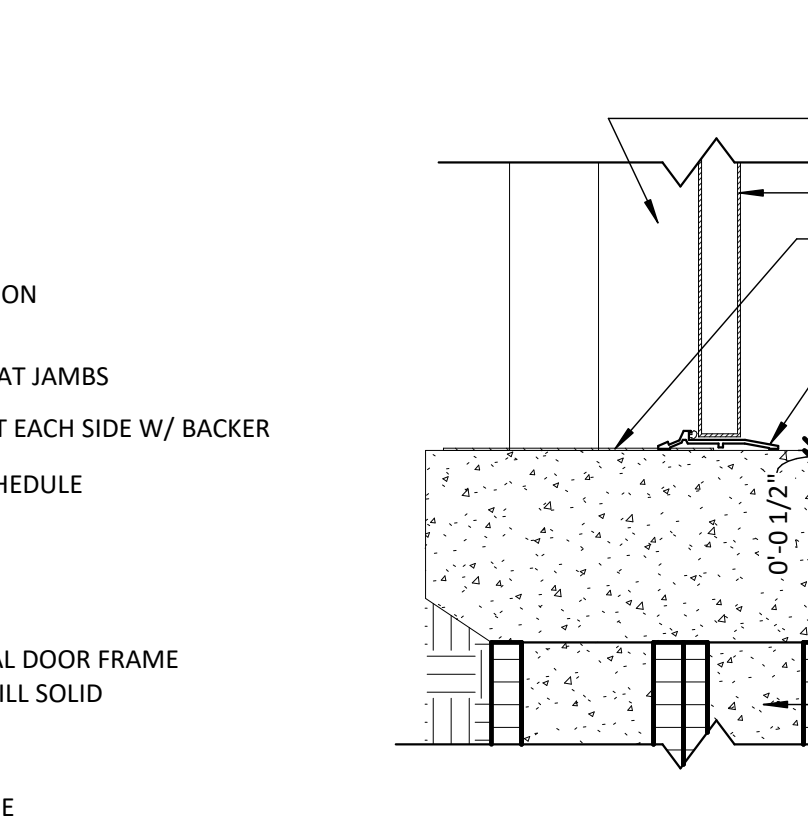
03 Door Detail - HM Frame - INT SILL  
(4) 1 1/2" = 1'-0"



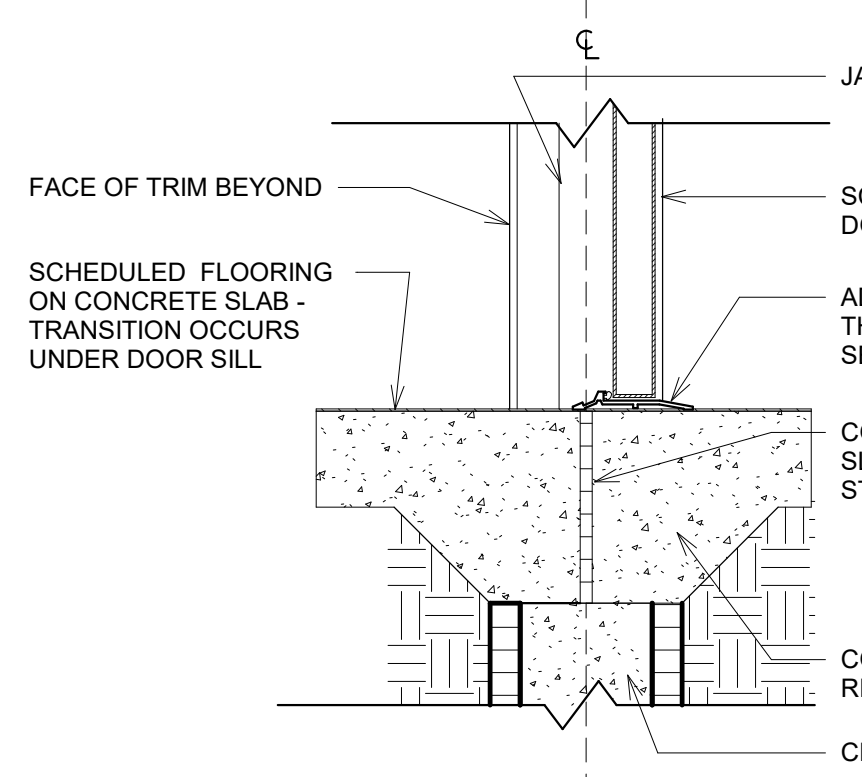
04 Door Detail - HM Frame - EXT HEAD  
(5) 1 1/2" = 1'-0"



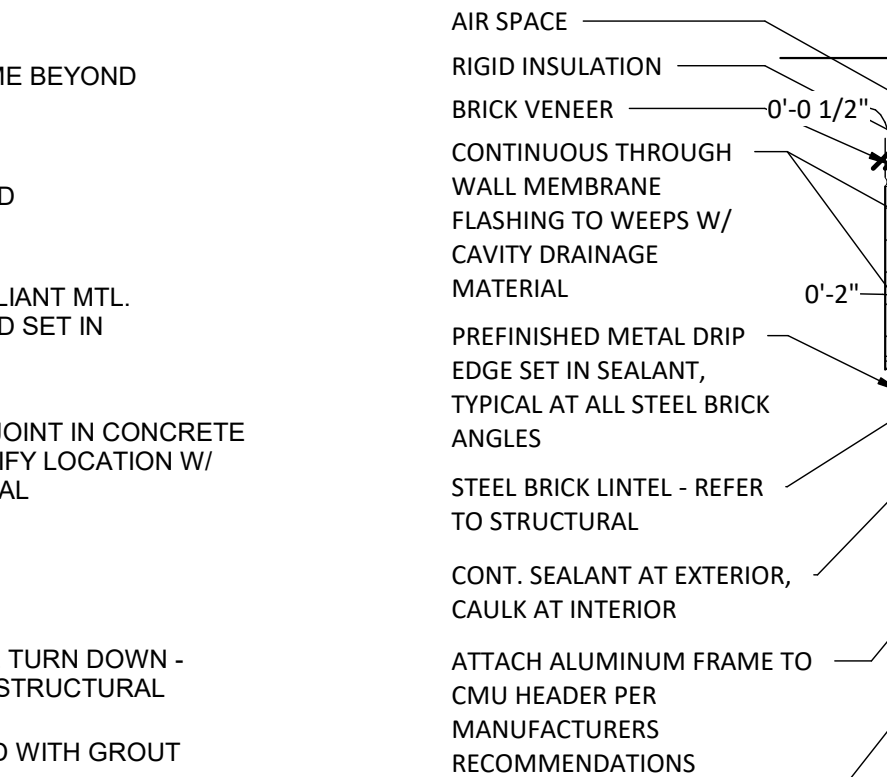
05 Door Detail - HM Frame - EXT JAMB  
(6) 1 1/2" = 1'-0"



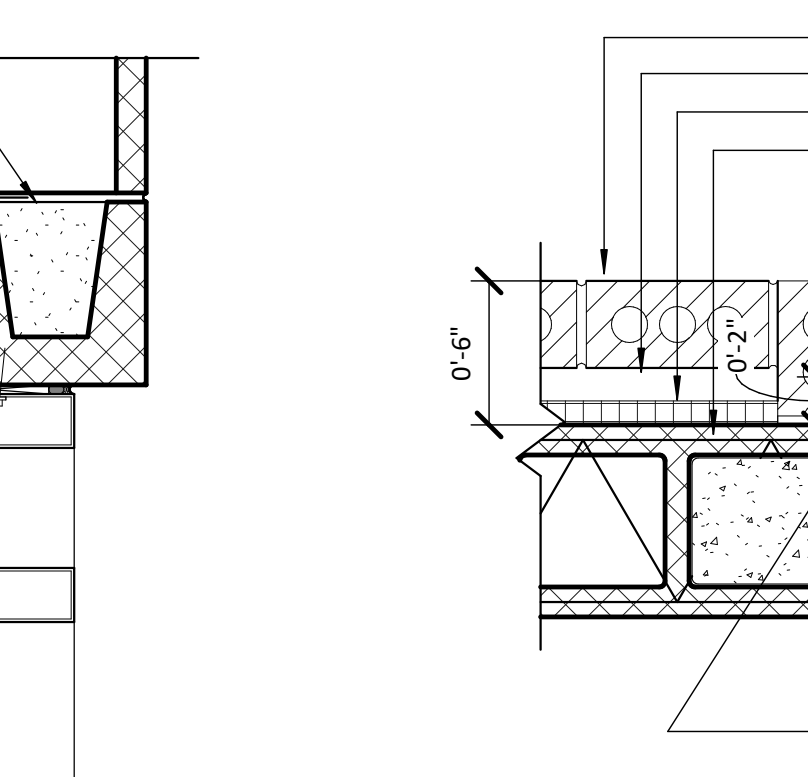
06 Door Detail - HM Frame - EXT SILL  
(7) 1 1/2" = 1'-0"



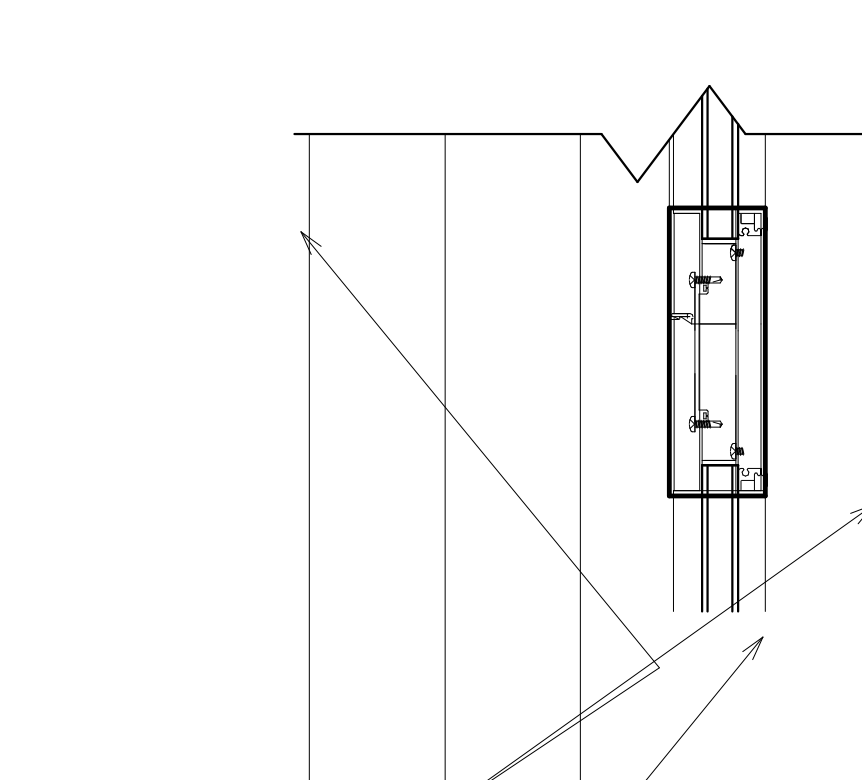
09 INTERIOR DOOR SILL  
(9) 1 1/2" = 1'-0"



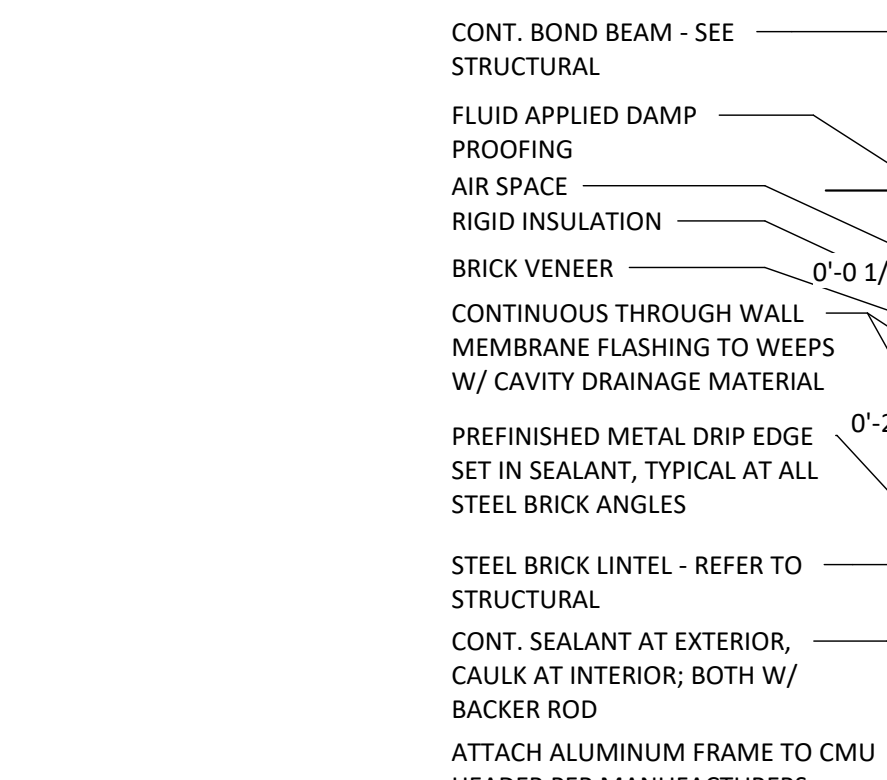
10 ALUM STOREFRONT DOOR HEAD - EXT  
(10) 1 1/2" = 1'-0"



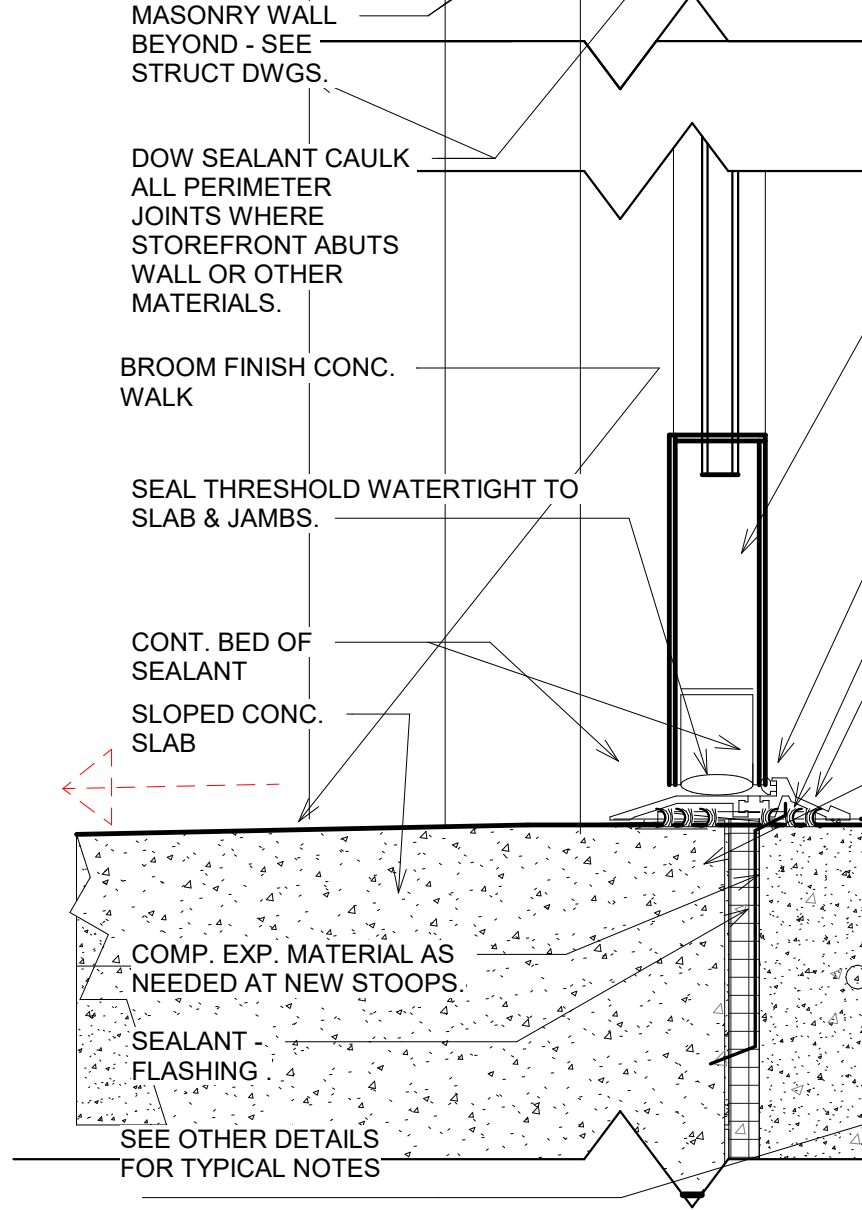
11 ALUM STOREFRONT DOOR JAMB - EXT  
(11) 1 1/2" = 1'-0"



13 ALUM STOREFRONT WINDOW HEAD - EXT  
(13) 1 1/2" = 1'-0"



14 ALUM STOREFRONT WINDOW JAMB - EXT  
(14) 1 1/2" = 1'-0"

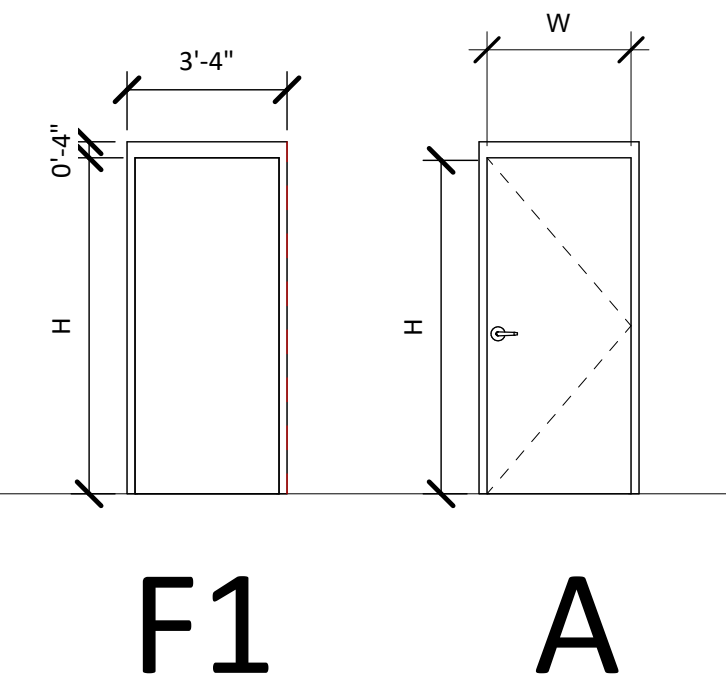


08 THRESHOLD  
(8) 3" = 1'-0"

DOOR SCHEDULE 1															
Door Number	Signage	Fire Rating	Hardware Set	Door			Material	Finish	Frame Elevation All HM = F1 Frame	Frame		Details - Sheet A8.1			Comments
				Width	Height	Thickness				Material	Finish	Head	Sill	Jamb	
1	EX Reception	-	SEE SPECS	3'-0"	7'-9 1/2"	0'-1 3/4"	ALUM	ANOD	B	ALUM	ANOD	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
2	TOILET	-	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
3	CORRIDOR	B-90 MIN	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	ACCESS CONTROL
4	CORRIDOR	-	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
5	CORRIDOR	B-90 MIN	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
6		-	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
7	RECEPTION	-	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	
8	RECEPTION	-	SEE SPECS	3'-0"	7'-0"	0'-1 3/4"	HM	PAINT	A	HM	PAINT	SEE TYP DETAILS	SEE TYP DETAILS	SEE TYP DETAILS	

**DOOR & WINDOW GENERAL NOTES:**

- ALL GLASS LOCATED WITHIN 30" OF F.F.E. MUST BE SAFETY GLASS AS PER ICC. ALL OTHER GLASS SHALL BE TEMPERED GLASS. ALL EXTERIOR GLASS UNITS SHALL BE INSULATED EXCEPT FOR DOOR UNITS. ALL GLASS IN EXTERIOR DOOR AND DOOR FRAME UNITS SHALL BE TEMPERED SAFETY GLASS.
- REFER TO LIFE SAFETY SHEETS FOR ALL RATED WALL LOCATIONS AND COORDINATE WITH DOORS & WINDOWS LOCATED IN THE RESPECTIVE WALLS. CONTRACTOR TO PROVIDE FIRE RATED GLASS AT ALL DOOR AND WINDOW ASSEMBLY LOCATIONS AS REQUIRED PER LIFE SAFETY PLAN AND IBC 2009. ALL FIRE RATED GLASS IS TO BE "FIRE RESISTANCE RATED GLASS" SEE SPECIFICATIONS. ALL FIRE RATED GLAZING MUST HAVE RATING LABEL ETCHED INTO EACH INDEPENDENT GLAZING PIECE.  
[IBC 715.4.6.1 - OTHER (NON WIRE GLASS) FIRE-PROTECTION-RATED GLAZING SHALL COMPLY WITH THE SIZE LIMITATIONS OF NFPA 80. NFPA 80 TABLE 1-7.4 ALLOWS FIRE RATED GLAZING IN 3/4 HR DOORS TO BE UP TO THE SIZE TESTED BY MANUFACTURERS.]
- LABELED DOOR & FRAME NOTE:**  
HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTED ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITERS LABORATORIES LABELS OR WARNOCK HERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE".
- COORDINATE HOLLOW METAL DOOR FRAME DEPTHS WITH APPLICABLE WALL THICKNESS TO ASSURE PROPER FIT OF DOOR AND WINDOW FRAMES TO ADJACENT CONSTRUCTION. USE 8.25" HM FRAMES AT EXTERIOR WALLS AND 5.75" HM FRAMES AT INTERIOR WALLS.
- CAULK ALL EDGES AT WALLS - MATCH TO PAINT OF WALL EACH SIDE.
- ALL HOLLOW METAL DOORS AND FRAMES & WINDOWS SHALL RECEIVE TEMPERED GLASS.
- ALL DOUBLE HOLLOW METAL DOORS ARE TO RECEIVE A REMOVABLE ASTRAGAL AT CENTER OF FRAME.
- CONTRACTOR TO ALSO PROVIDE APPROPRIATE RATED HARDWARE COORDINATE WITH LIFE SAFETY PLAN FOR ADDITIONAL REQUIREMENTS.
- ALL WOOD DOORS THAT ARE TO RECEIVE A TRANSPARENT STAIN MUST BE SHOP FINISHED BY MANUFACTURER. **SUBMIT 1'X1' SAMPLE OF WOOD DOOR TO BE APPROVED BY ARCHITECT PRIOR TO MANUFACTURING OF DOORS.**
- WINDOW SIZES AS DRAWN ARE NOMINAL MASONRY OPENINGS. WINDOWS MUST BE SIZE OR PROVIDED WITH ADAPTERS / TRIM TO ADJUST TO THE INSTALLATION CHARACTERISTICS OF THE ADJACENT MATERIALS. LAY-UP THE MASONRY VENEER TO THE PHYSICAL INSTALLED WINDOW OR TO ACCURATE WINDOW DIMENSIONS BASED ON SHOP DRAWINGS. SET THE WINDOWS IN FULL SEALANT BEDS WITH PROPER CLEARANCE FOR CAULKING.



**GENERAL NOTES:** FOR HOLLOW METAL FRAME REFER TO SPECIFICATIONS - REFER TO MANUFACTURER'S INSTALLATION DETAILS.  
NOTE SINGLE DOORS SHOWN; REFER TO FLOOR PLAN FOR DESIGNATION OF SINGLE VS DOUBLE DOORS.  
ALL HOLLOW METAL FRAMES ARE TYPE A DOORS ARE FRAME F1.

**DOOR LEGEND**  
1/4" = 1'-0"

**HARDWARE NOTES:**

- INSTALL EACH ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION.
- ALL HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF THE PROJECT MANUAL AND INDUSTRY STANDARDS.
- PROVIDE WALL STOP FOR ALL DOORS THAT OPEN AGAINST A WALL.
- NOT USED.
- NOT USED.

**HARDWARE NOTES**  
1/8" = 1'-0"

**DOOR & GLASS NOTES**  
1/8" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL

MORGAN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES ARCHITECTS, INC.



SHEET TITLE : DOOR & SCHEDULE DETAILS

JOB NO. : 22-133

DRAWN BY : CPBIII

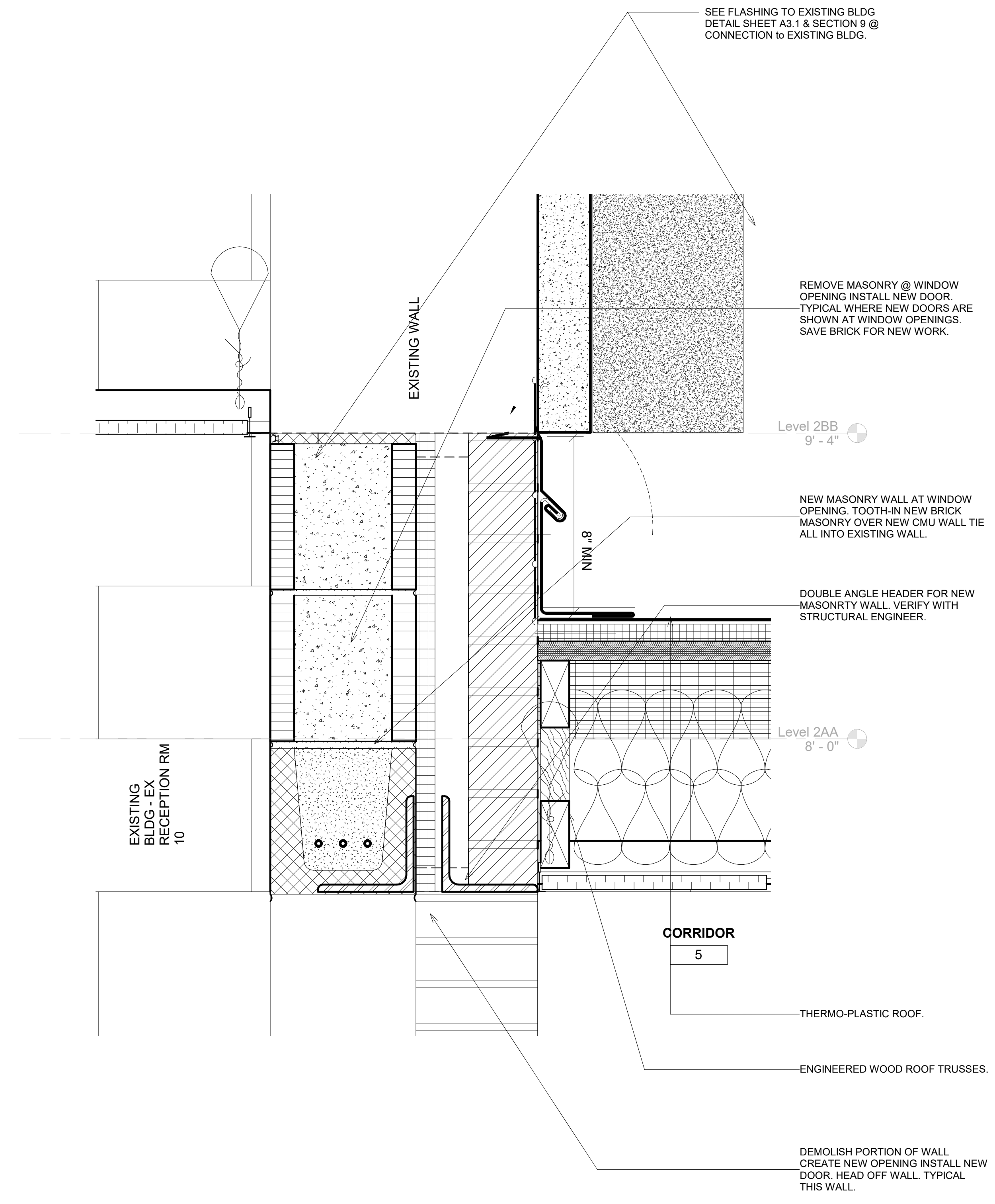
ISSUE DATE : 7-1-2022

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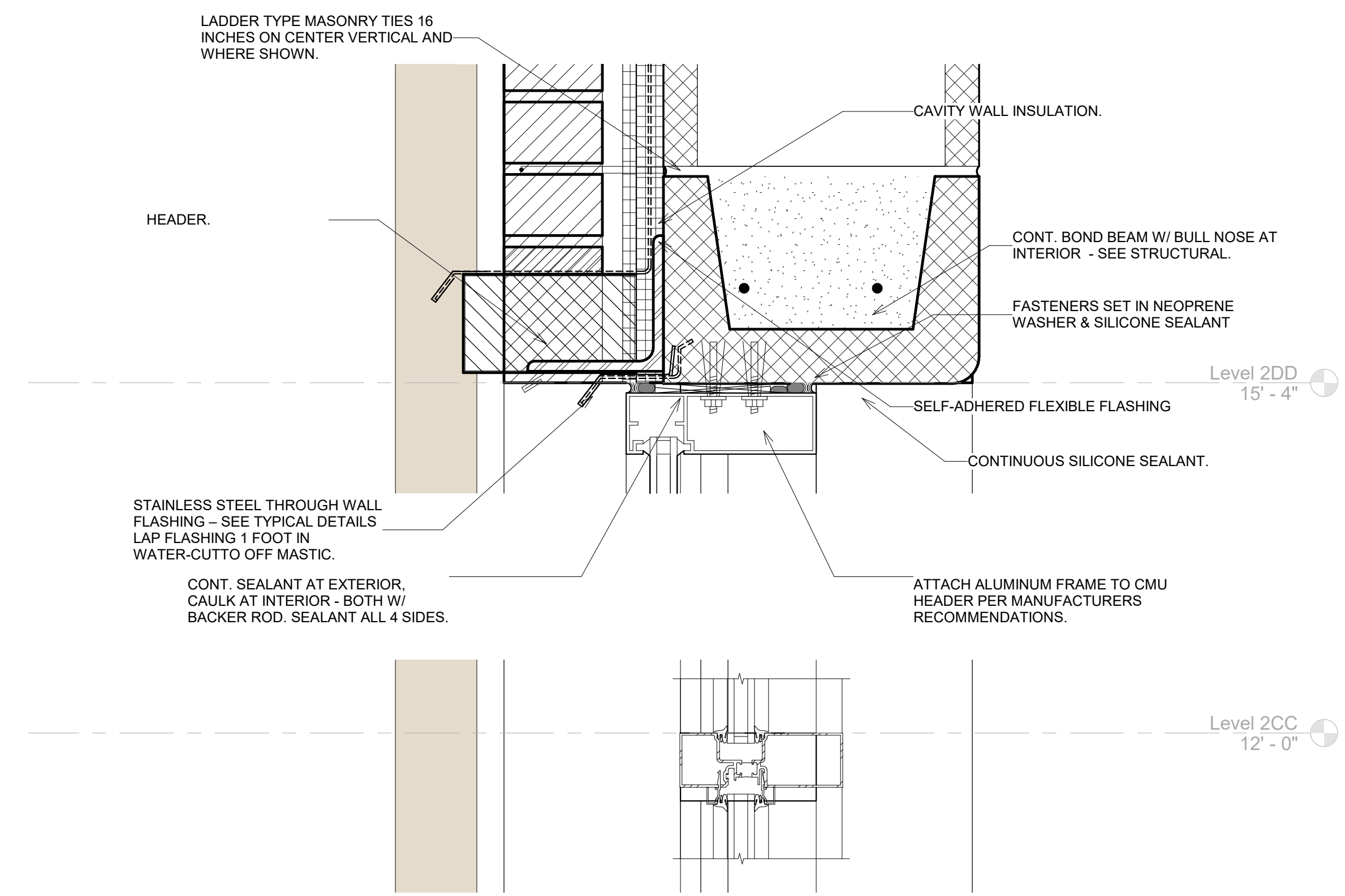
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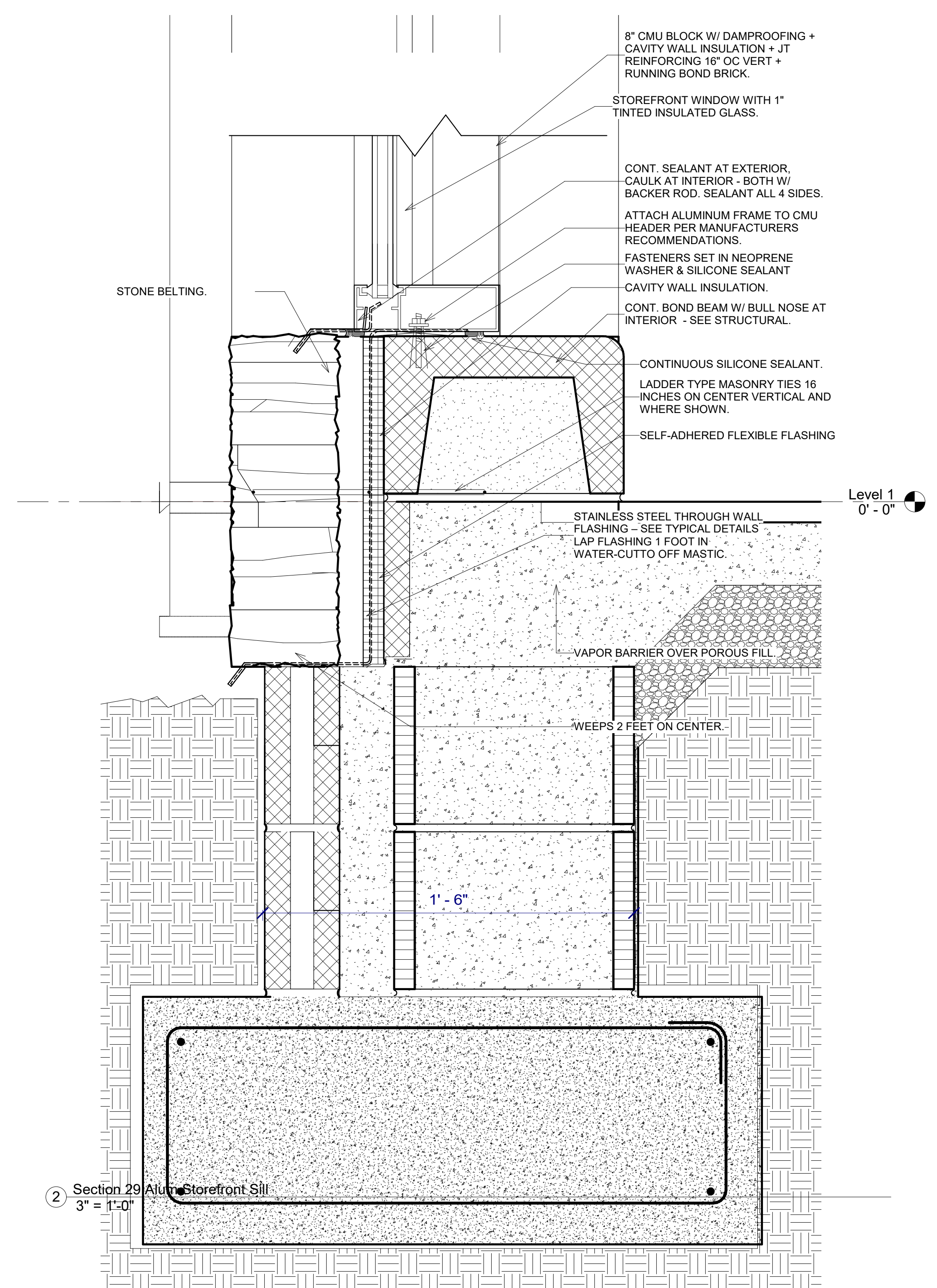
SHEET NO. : A8.1



Section 9 @ Connection to Existing Bldg - Callout 1  
3" = 1'-0"



Section 29 Alum Storefront Head  
3" = 1'-0"



Section 29 Alum Storefront Sill  
3" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : DETAILS  
JOB NO. : 22-133  
DRAWN BY : Author  
ISSUE DATE : 7-1-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **A8.2**

**BUILDING CODE SUMMARY**

**[1.] GENERAL INFORMATION**  
 PROJECT NAME: A NEW ADDITION TO BREWER HIGH SCHOOL, SOMERVILLE, ALABAMA, MORGAN COUNTY BOARD OF EDUCATION.  
**[2.] APPLICABLE CODES - ALABAMA BUILDING COMMISSION**  
 BUILDING CODE 2015-STATE INTERNATIONAL BUILDING CODE [CHANGES TO 2021 7-01-2022]  
 STRUCTURAL CODE 2015-STATE INTERNATIONAL BUILDING CODE  
 MECHANICAL CODE 2015-STATE INTERNATIONAL MECHANICAL CODE  
 PLUMBING CODE 2015-STATE INTERNATIONAL PLUMBING CODE  
 ELECTRICAL CODE 2015-STATE NATIONAL ELECTRICAL CODE  
 FIRE/LIFE SAFETY CODE 2015-STATE INTERNATIONAL FIRE PREVENTION CODE  
 ACCESSIBILITY 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

**[3.] OCCUPANCY CLASSIFICATIONS**

- A. INCIDENTAL USE AREAS (TABLE 508.2.5)  
STORAGE ROOMS OVER 100 SF (IN FULLY SPRINKLED FACILITY)
- B. ACCESSORY USE AREAS  
**BUSINESS OCCUPANCY OF ADDITION**

**[4.] BUILDING DATA**

A. AREA OF EACH STORY OR SEPARATED BUILDING AREA	TOTAL ACTUAL AREA	1,484 SF
FRONTAGE INCREASE NOT USED	00,000 SF	
SPRINKLER INCREASE NOT USED	00,000 SF	
GRAND TOTAL AREA	1,484 SF	

- B. CODE MAXIMUM ALLOWABLE AREA PER FLOOR: 9,000 SF CODE MAXIMUM
- C. CONSTRUCTION - CONCRETE BLOCK MASONRY & METAL STRUCTURE- THROUGH OUT.
- D. ASSUMED BUILDING - TYPE VB, NON-SPRINKLED, UNPROTECTED, 40 FEET MAXIMUM HT, 1 STORY OCCUPANCY.

**[5.] FIRE PROTECTION REQUIREMENTS**

A. DETAILED CONSTRUCTION REQUIREMENTS	REQUIRED	RATING
B. FIRE PROTECTION OF STRUCTURAL COMPONENTS (TABLE 601)		
STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS & TRUSSES)	0-HOUR	
BEARING WALLS	0-HOUR	
NON-BEARING WALLS:		
EXTERIOR	0-HOUR	
INTERIOR	0-HOUR	
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	0-HOUR	
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	0-HOUR	
C. FIRE PROTECTION OF OTHER ELEMENTS		
FIRE PARTITIONS(NONE)	0-HOUR	
SMOKE BARRIERS (NONE)	0-HOUR ADJACENT TENANT SPACE	
SMOKE PARTITIONS (NONE)	NOT REQUIRED - 1-HOUR WALL TIGHT TO METAL DECK W/ 3M FIRE CAULK. AT ALL EDGES.	
D. PORTABLE FIRE EXTINGUISHERS ARE REQUIRED PER INTERNATIONAL FIRE CODE (SEE SECTION 906 OF IFC). RECOMMEND AT ALL EXITS. SEE PLANS		

**[6.] LIFE SAFETY SYSTEMS**

A. EMERGENCY LIGHTING	NO	YES NEW ONES REQUIRED
B. EXIT SIGNS	NO	YES NEW ONES REQUIRED
C. FIRE ALARM	NO	YES
D. SMOKE DETECTION SYSTEM	NO	YES VERIFY WITH FIRE ALARM SMOKE DETECTION COMPANY
E. PANIC HARDWARE	NO	YES
F. SPRINKLERED	NO	YES
G. STANDPIPES	NO	YES

**[7.] OCCUPANT LOAD AND EGRESS REQUIREMENT**

- A. E EDUCATIONAL SEE CALCULATIONS SF / PERSON (NET) SEE PLANS
- B. ANCILLARY SPACES 300 SF / PERSON (NET)
- C. TABLE 1005.1 EGRESS WIDTH PER OCCUPANT = .15 /OCCUPANT SPRINKLED
- D. OTHER EGRESS COMPONENTS = .15 /OCCUPANT SPRINKLED

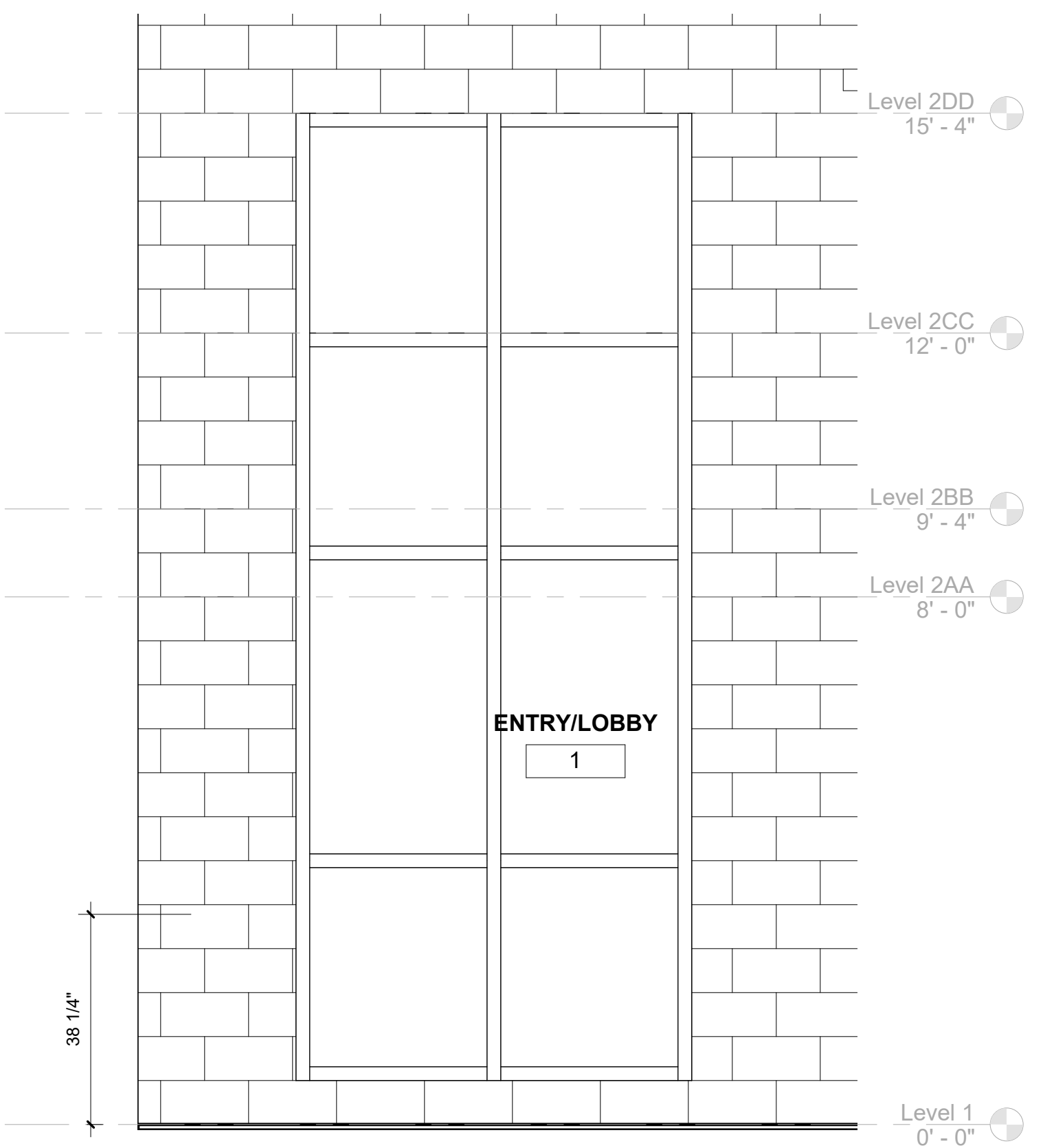
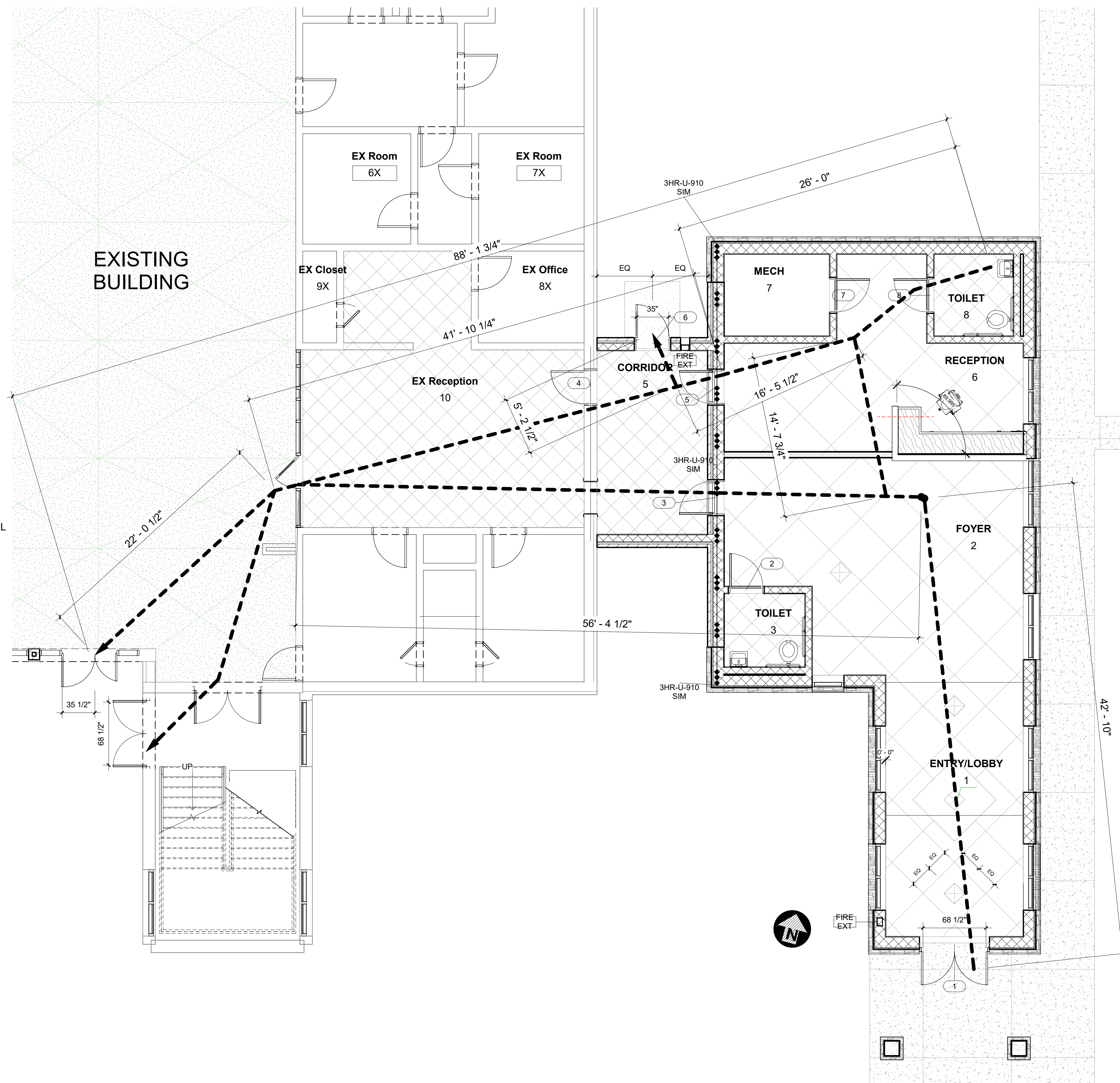
**[8.] EXIT REQUIREMENTS**

- A. MAXIMUM TRAVEL DISTANCE = 200' NON-SPRINKLED
- B. MINIMUM CORRIDOR WIDTH = 44" (NA)
- C. MINIMUM CLEAR WIDTH OF EXIT DOORS = 32" EACH LEAF (145 UNITS PROVIDED / (1) DOUBLE FRONT DOOR, (1) SINGLE REAR DOOR, (2) DOORS AT ADJACENT SPACES IN EXISTING PORTION OF BLDG = 145 INCHES CLEAR OPENING / .20 NON-SPRINKLED = 145 UNITS PROVIDED) 15.7 REQUIRED.
- D. MAXIMUM DEAD END CORRIDOR = 20'-0"

**[9.] ACCESSIBILITY - AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES ARE REQUIRED.**

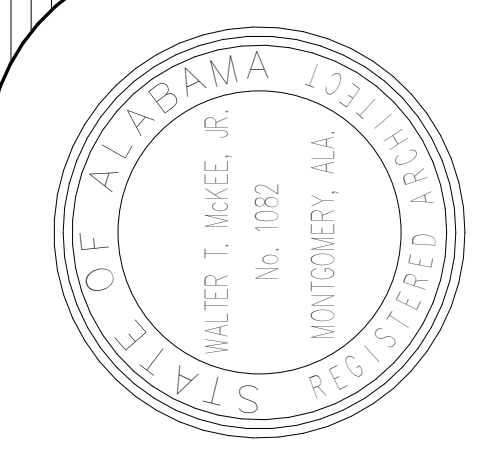
- A. THIS BASIC ACCESSIBLE SITE HAS BEEN IN EXISTENCE FOR SEVERAL DECADES. .
- C. ALL EXTERIOR EXIT DOORS, INSTALL BRIGHT AND CLEARLY VISIBLE ILLUMINATED ELECTRICALLY POWERED - BATTERY BACK-UP EMERGENCY EXIT SIGNS AND CODE APPROVED ELECTRICALLY POWERED, BATTERY BACKUP POWER EMERGENCY LIGHTING.

THESE DOCUMENTS ARE DETAILED HEREIN ARE MINIMUMS AND THE OWNER/CONTRACTOR ARE REQUIRED TO CORRESPOND AND COMPLY WITH ALL CODES BY AUTHORITIES HAVING JURISDICTION.



② Elevation Fire Extinguisher Lobby  
1/2" = 1'-0"

A NEW ADDITION AT BREWER HIGH SCHOOL  
 FOR  
 MORGAN COUNTY BOARD OF EDUCATION  
**McKee and Associates**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : LIFE SAFETY PLAN  
 JOB NO. : 22-133  
 DRAWN BY : CPBIII  
 ISSUE DATE : 7-1-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **A9.1**

**GENERAL CONSTRUCTION NOTES & CONDITIONS OF OPERATION:**

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE CONDITIONS REPRESENTED BY THESE DOCUMENTS COMPARED TO EXISTING CONDITIONS IN THE FIELD. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR ALL COORDINATION AND THEY SHALL COORDINATE AND COMPARE SCOPE AND THE DEPLOYMENT OF WORK THAT IS TO PROCEED AND REQUIREMENTS SET FORTH IN THE PROJECT MANUAL FOR THIS WORK AND ALERT THE ARCHITECT OF RECORD TO ANY QUESTIONS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PARTICULARLY VERIFY ALL EXISTING CONDITIONS AND ACCEPTS RESPONSIBILITY FOR THOSE CONDITIONS. FAILURE TO BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT OF RECORD OR ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK IN THE AFFECTED AREA OR PRIOR TO BIDDING IF A CONDITION IS CLEARLY DISCOVERABLE OR KNOWN THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THAT CONDITION.
3. DIMENSIONS OF EXISTING SITE OR EXISTING ELEMENTS ARE SHOWN - MADE AVAILABLE AS A CONVENIENCE. THESE DIMENSIONS AND AREAS ARE NOMINAL AND ARE CONSIDERED TO BE PLUS OR MINUS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SCRUTINIZING AND INVESTIGATING ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID.
4. ALL QUANTITIES ARE TO BE VERIFIED IN THE FIELD. THE CONTRACTOR IS TO PREPARE HIS BID ACCORDINGLY. ANY INDICATION OF AREAS OR QUANTITIES ARE RE CONVENIENCE NUMBERS AND ARE TO BE VERIFIED IN FACT.
5. CONTRACTORS SHALL PERFORM ALL WORK TO SUCCESSFULLY INSTALL THE WORK UNDER CONTRACT. WHERE AN ITEM OR SYSTEM IS SHOWN THE MANUFACTURERS STANDARD INSTALLATION REQUIREMENTS ARE IN FORCE AS MUCH AS THESE DOCUMENTS AS WELL AS GENERALLY PUBLISHED STANDARDS OF CONSTRUCTION. THE CONTRACTOR WILL PROCEED ACCORDINGLY. ALL WORK IS TO INCLUDE THE COST OF ALL PERMITS, FEES, LICENSES.
6. PROTECT THE BUILDING ELEMENTS AND IN-PLACE CONSTRUCTION FROM CONSTRUCTION ACTIVITIES.
7. PROTECT EXISTING SITE ELEMENTS AND OR EXISTING STRUCTURES OR BUILDINGS DURING CONSTRUCTION ESPECIALLY DURING THE INSTALLATION OF NEW CONSTRUCTION TO PROCEEDING NEAR IN PLACE STRUCTURES.

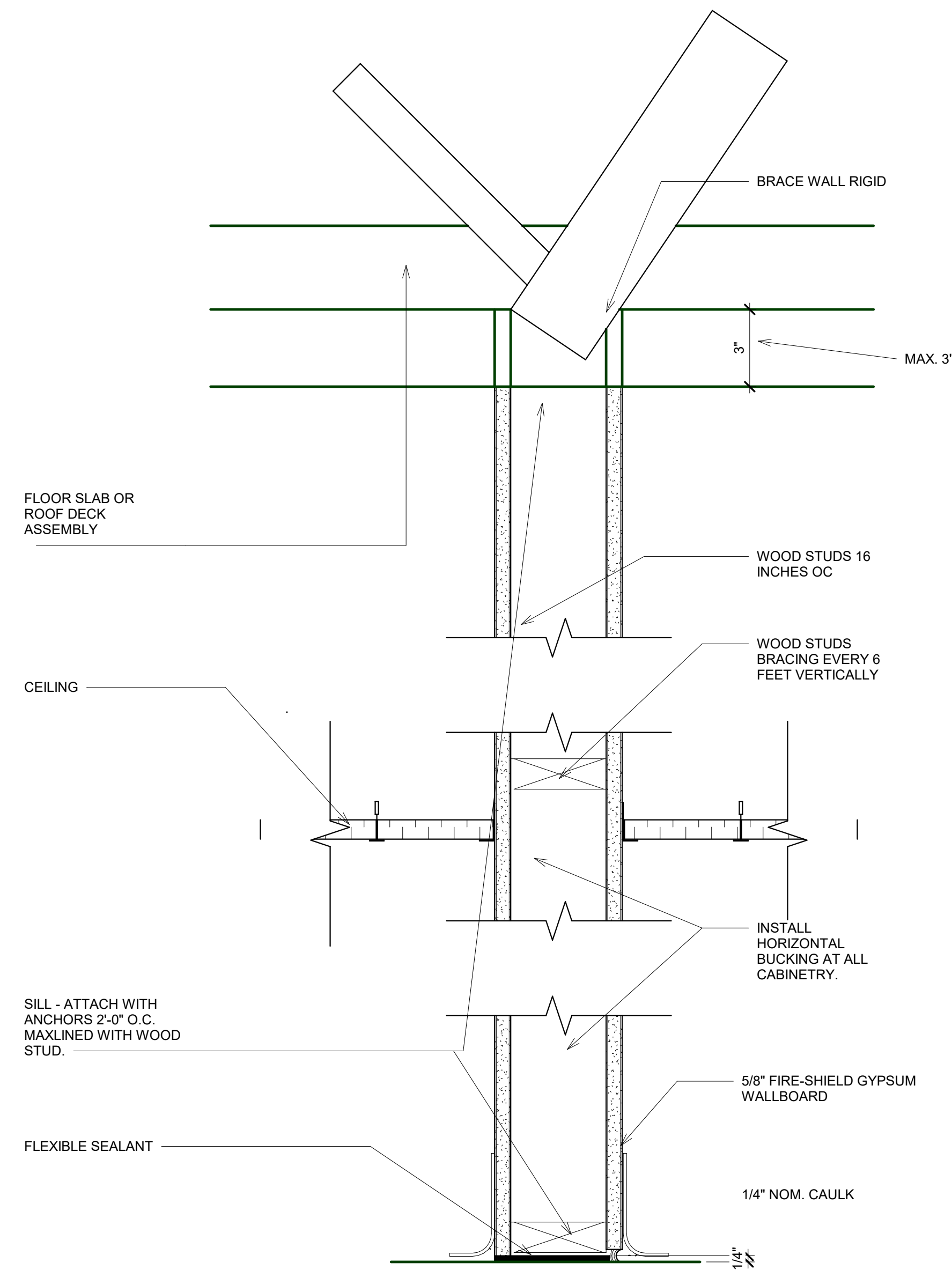
**GENERAL CONSTRUCTION NOTES & CONDITIONS OF OPERATION CONTINUED:**

8. THE CONTRACTOR IS TO PROVIDE WEATHERPROOFING AND DUST PROOF WINDOW & DOOR OPENINGS AND MAINTAIN THEM FREE OF WATER INTRUSION AND DUST OR DIRT. THESE PROTECTIONS ARE TO BE MAINTAINED DURING ALL WORK UNTIL SUBSTANTIAL COMPLETION IS AUTHORIZED AND ALL RELEVANT PAPERWORK IS COMPLETE AND SIGNED OFF ON.
- 9A. WHERE THE EXTENT OF NOTES APPLY TO SPECIFIC COMPONENTS OR UNITS OF WORK, THESE ARE CONSIDERED TO BE EQUALLY APPLICABLE TO THAT SAME OR SIMILAR COMPONENT OF WORK AT OTHER VIEWS OR LOCATIONS OR OTHER CAMPUSES.
- 9B. A LAY DOWN YARD AND SPECIFICS OF EQUIPMENT & CONSTRUCTION MATERIAL AND THE WORK AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE AND ARE TO BE CONFIRMED BY OWNER PRIOR TO START OF CONSTRUCTION. KEEP EQUIPMENT AND MATERIAL SECURE DURING CONSTRUCTION AND SAFE FROM WEATHER AND INTRUSION.
10. THE CONTRACTOR IS TO PROTECT WORK IN PLACE UNDER THIS CONTRACT AND WORK BY OTHERS AND THE CONTRACTOR IS TO PROTECT THE OWNER'S AND ADJACENT OWNER'S PROPERTY AND EQUIPMENT SECURE AND FREE FROM DAMAGE BY CONSTRUCTION ACTIVITIES.
11. CONSTRUCTION AND OR DEMOLITION MAY REQUIRE TEMPORARY STRUCTURAL SHORING. INSTALL TEMPORARY BRACING AND SHORING AS NECESSARY FOR DEMOLITION STRUCTURAL SHORING AND SUPPORT. WHERE LOADING OF BUILDING COMPONENTS ARE IN QUESTION THE CONTRACTOR SHALL HAVE A STRUCTURAL ENGINEER VERIFY THE SAFETY OF PROCEEDING.
12. THE ARCHITECT MUST APPROVE ALL PROPOSED WORK EITHER BY SHOP DRAWINGS SUBMITTALS OR BY DECISIONS ESTABLISHED IN CONSTRUCTION MEETINGS. SUB-CONTRACTORS, OR ARTISANS WORKING FOR THE CONTRACTOR MUST MEET THE REQUIREMENTS OF THE SPECIFICATIONS FOR QUALIFICATIONS AND MEET THE MINIMUM LEVELS OF QUALITY WORKMANSHIP PROCEEDING ONLY AFTER AN APPROVED SAMPLE IS VIEWED BY THE ARCHITECT OF RECORD. GIVE 10 WORKING DAYS NOTICE FOR INSPECTIONS TO ANNOUNCE COMPLETION.
13. THE CONSTRUCTION SUPERINTENDENT MUST REVIEW THE REQUIREMENTS OF PROJECT, AND PROJECT DETAILS WITH THE ARCHITECT OF RECORD OR HIS REPRESENTATIVES PRIOR TO BEGINNING WORK.

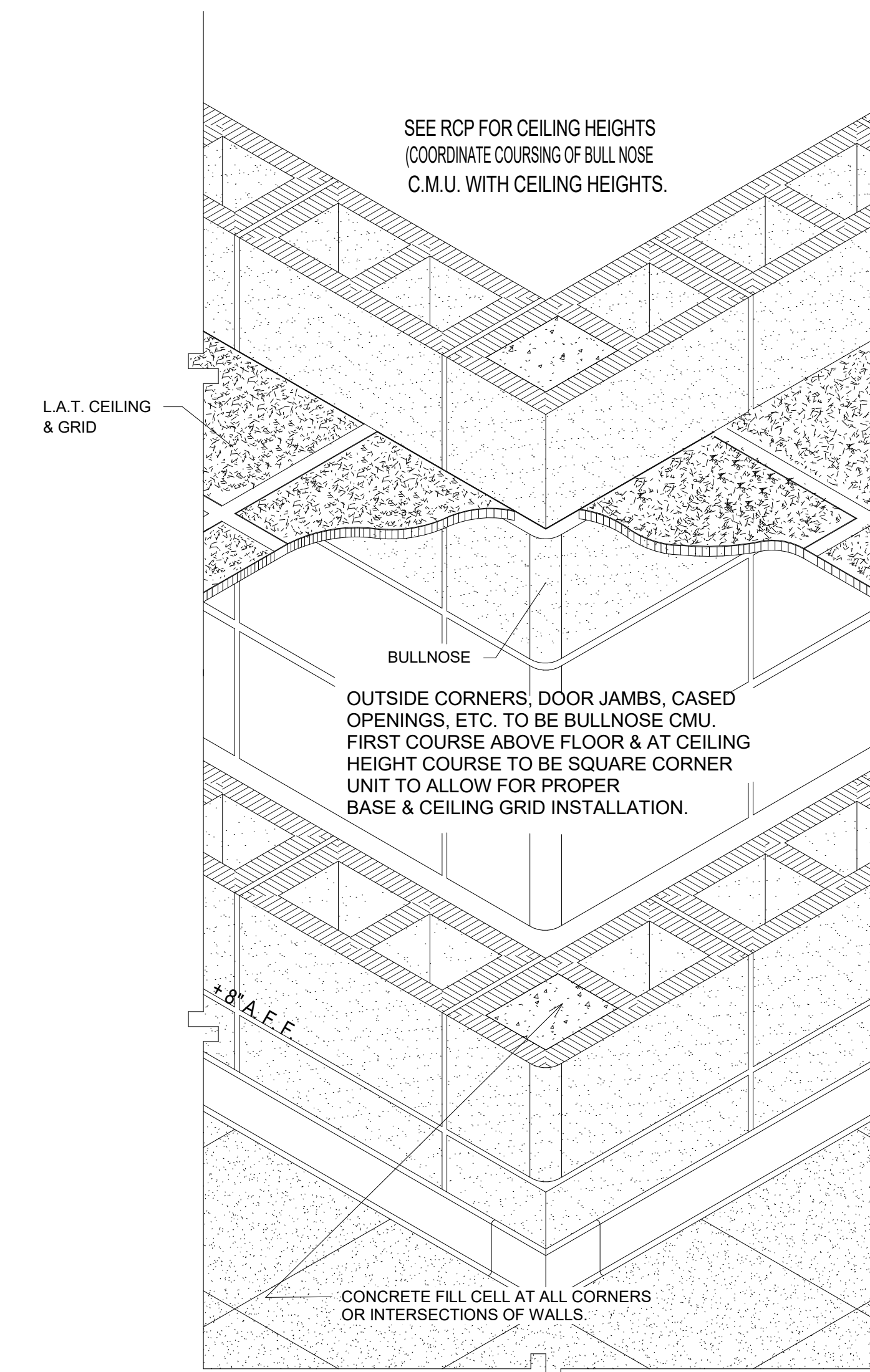
**GENERAL CONSTRUCTION NOTES & CONDITIONS OF OPERATION CONTINUED:**

14. THE ARCHITECT OF RECORD MUST HAVE APPROVED SHOP DRAWINGS PRIOR TO ANY PRE-CONSTRUCTION CONFERENCES.
17. SUBMIT SHOP & OR MATERIAL SUBMITTALS BROCHURES/DRAWINGS FOR ALL WORK. THERE WILL BE NOT ONLY A PRE-CONSTRUCTION CONFERENCE FOR EACH COMPONENT OF WORK BUT CAN INCLUDE OTHER SPECIFIC COMPONENTS OF WORK SUCH AS ROOFING AS AN EXAMPLE.
20. DO NOT WITHDRAW FROM THE SITE UNTIL ALL APPROVALS CONCERNING CONSTRUCTION ARE ACQUIRED.
21. WHERE SEALANT IS APPLIED THESE JOINTS MAY BE TESTED FOR WATER TIGHTNESS. PROPER PREPARATION IS REQUIRED FOR INSTALLATION OF ALL SEALANTS BY EITHER ROUGHING THE SURFACE TO RECEIVE SEALANT, GRINDING THE MASONRY OR METAL AND PRIMING. FAILURE TO DO THESE THINGS WILL REQUIRE ADDITIONAL WORK. GIVE 10 WORKING DAYS NOTICE FOR THIS INSPECTION.
22. WHERE THE CONTRACTOR OR SUB-CONTRACTORS PROCEEDS WITH A COMPONENT OF WORK, THE CONTRACTOR ACCEPTS THE CONDITION OF THE SUBSTRATE TO CONSTRUCTION AND PROPER OUTCOME AS DETERMINED / INSPECTED BY THE ARCHITECT. THE WORK IS NOT COMPLETE UNTIL SUCH TIME THAT SUCCESS IS DEEMED SUCCESSFUL. THE CONTRACTOR ACCEPTS THE CONDITION OF THE SUBSTRATE UPON WHICH THAT WORK IS ADDED OR COMPLETED AND ALL COSTS ASSOCIATED WITH THAT SUBSTRATE.
24. THE PRODUCTS OF DEMOLITION AND DEBRIS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE EXPRESSED. THESE ARE TO BE DISPOSED OF OR HANDLED ACCORDING TO CODES AND LAWS BY AUTHORITIES HAVING JURISDICTION.
25. SALVAGE ITEMS ARE TO BE REMOVED AND DELIVERED TO A LOCATION DESIGNATED BY THE MORGAN COUNTY BOARD OF EDUCATION.
25. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL ALL PRE-CONSTRUCTION CONDITIONS ARE MET.
26. CONTRACTORS SHALL PERFORM ALL WORK TO SUCCESSFULLY AND COMPLETELY INSTALL THE WORK UNDER CONTRACT.
27. SUBMISSION OF A BID IS ACKNOWLEDGEMENT AND AGREEMENT WITH THESE CONDITIONS OF OPERATION.
28. DEMOLISH EXISTING COMPONENTS, ASSEMBLIES, OR SPECIFIC ITEMS AS INDICATED OR THAT REQUIRED FOR THE INSTALLATION OF NEW WORK.
29. EGRESS WIDTHS MUST BE MAINTAINED DURING CONSTRUCTION. ADA EGRESS WIDTHS MUST BE MAINTAINED.

5 GENERAL NOTES  
1/4" = 1'-0"



2 TYPICAL PARTITION WALL WS  
3' = 1'-0"



1 BULL NOSE DETAIL  
1/8" = 1'-0"

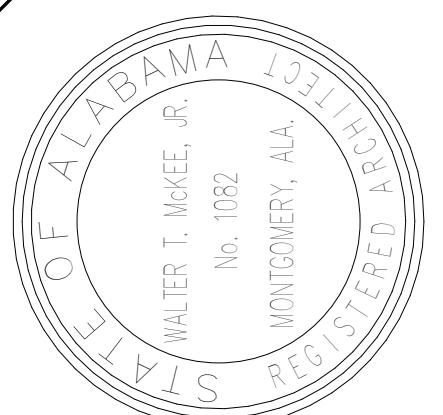
A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

MORGAN COUNTY BOARD OF EDUCATION

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ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : MISC DETAILS, GEN NOTES

JOB NO. : 22-133

DRAWN BY : CPBIII

ISSUE DATE : 7-1-2022

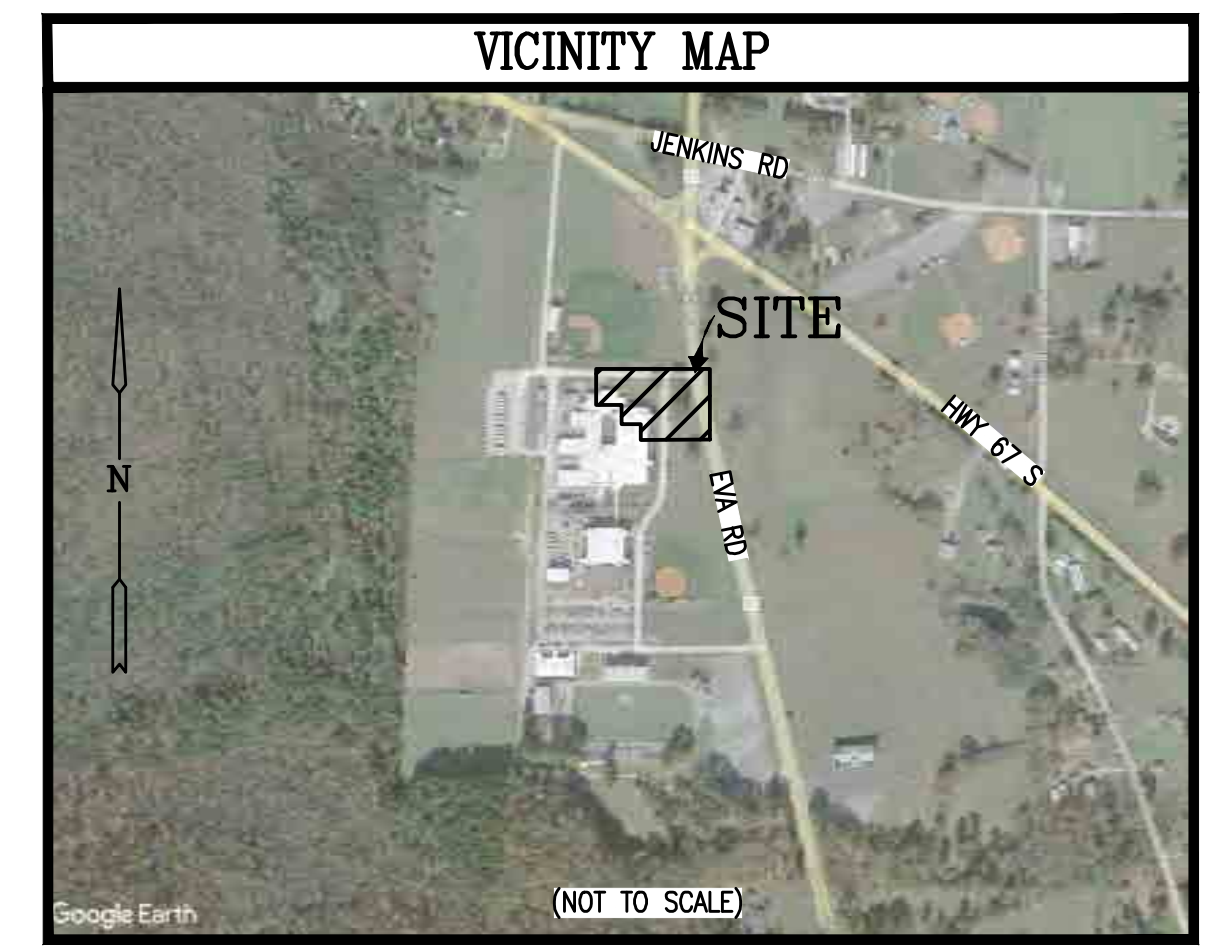
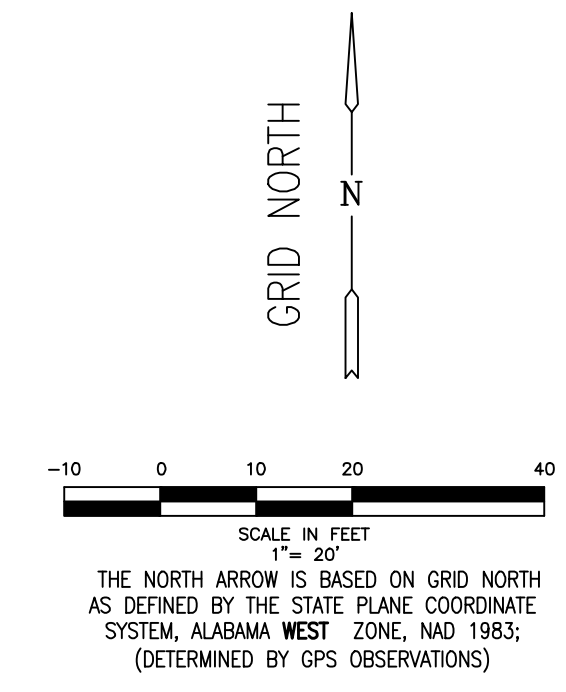
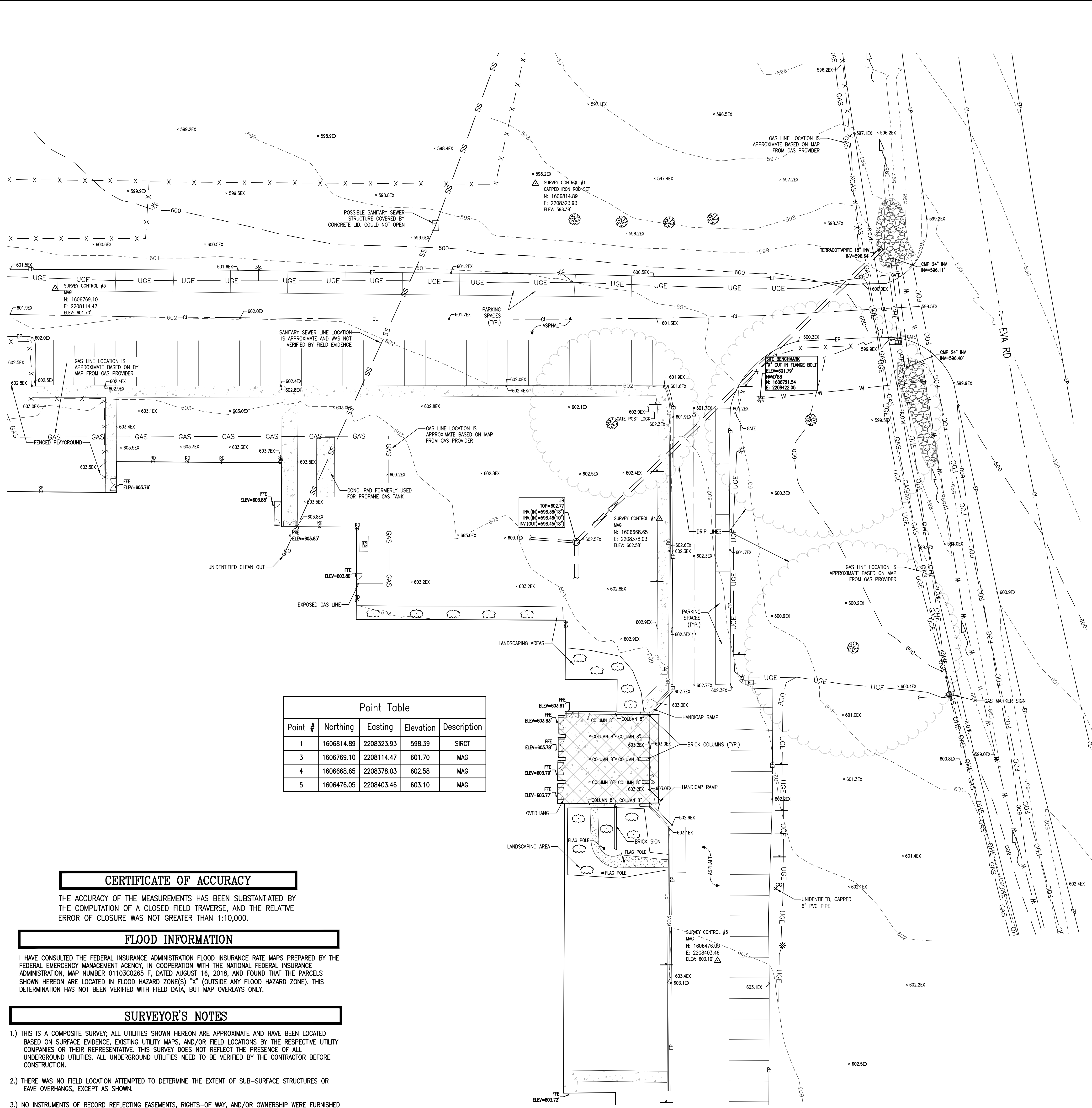
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SHEET NO. : **A9.3**





Point #	Northing	Easting	Elevation	Description
1	1606814.89	2208323.93	598.39	SIRCT
3	1606769.10	2208114.47	601.70	MAG
4	1606668.65	2208378.03	602.58	MAG
5	1606476.05	2208403.46	603.10	MAG

**CERTIFICATE OF ACCURACY**

THE ACCURACY OF THE MEASUREMENTS HAS BEEN SUBSTANTIATED BY THE COMPUTATION OF A CLOSED FIELD TRAVERSE, AND THE RELATIVE ERROR OF CLOSURE WAS NOT GREATER THAN 1:10,000.

**FLOOD INFORMATION**

I HAVE CONSULTED THE FEDERAL INSURANCE ADMINISTRATION FLOOD INSURANCE RATE MAPS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, IN COOPERATION WITH THE NATIONAL FEDERAL INSURANCE ADMINISTRATION, MAP NUMBER 01103C0265 F, DATED AUGUST 16, 2018, AND FOUND THAT THE PARCELS SHOWN HEREON ARE LOCATED IN FLOOD HAZARD ZONE(S) "X" (OUTSIDE ANY FLOOD HAZARD ZONE). THIS DETERMINATION HAS NOT BEEN VERIFIED WITH FIELD DATA, BUT MAP OVERLAYS ONLY.

**SURVEYOR'S NOTES**

- THIS IS A COMPOSITE SURVEY; ALL UTILITIES SHOWN HEREON ARE APPROXIMATE AND HAVE BEEN LOCATED BASED ON SURFACE EVIDENCE, EXISTING UTILITY MAPS, AND/OR FIELD LOCATIONS BY THE RESPECTIVE UTILITY COMPANIES OR THEIR REPRESENTATIVE. THIS SURVEY DOES NOT REFLECT THE PRESENCE OF ALL UNDERGROUND UTILITIES. ALL UNDERGROUND UTILITIES NEED TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- THERE WAS NO FIELD LOCATION ATTEMPTED TO DETERMINE THE EXTENT OF SUB-SURFACE STRUCTURES OR EAVE OVERHANGS, EXCEPT AS SHOWN.
- NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THE SURVEYOR, EXCEPT AS SHOWN.
- VERTICAL RELIEF INFORMATION WAS OBTAINED BASED ON FIELD MEASUREMENTS AND GPS OBSERVATION DATA, USING THE NAVD 1988.
- THIS PARCEL WAS LOCATED IN THE COUNTY AT THE TIME OF THIS SURVEY.
- LAND SURVEYORS, AS LICENSED PROFESSIONALS BY THE STATE OF ALABAMA, ARE NOT EXPERTS IN THE IDENTIFICATION OF WETLANDS, CEMETERIES OR BURIAL GROUNDS, ITEMS OF HISTORICAL OR CULTURAL SIGNIFICANCE, OR THE IDENTIFICATION OF ENVIRONMENTAL HAZARDS OR HAZARDOUS WASTE; NOR HAS ANY EVIDENCE OR DOCUMENTATION OF SAID AFOREMENTIONED ITEMS BEEN PROVIDED TO THE SURVEYOR. THEREFORE EXCEPTION IS TAKEN TO ANY SUCH MATTERS WHICH MAY EXIST ON THE SUBJECT PROPERTY.
- THE ADDRESS OF THE PROPERTY IS 59 EVA RD, SOMERVILLE, MORGAN COUNTY, AL.
- THIS IS A LIMITED TOPOGRAPHIC SURVEY ONLY AND IS NOT A BOUNDARY SURVEY. ANY BOUNDARY INFORMATION SHOWN HAS NOT BEEN FIELD VERIFIED AND IS FOR INFORMATION PURPOSES ONLY.

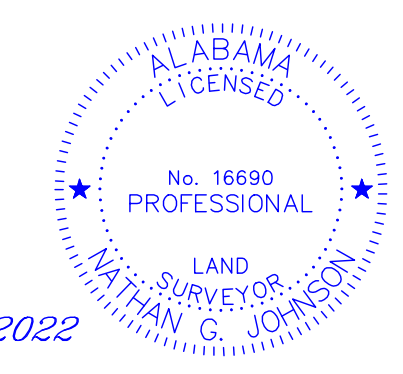
LEGEND	
FENCE LINE	-X-X-X-
EDGE OF PAVEMENT	EP
BACK OF CURB	BC
OVERHEAD ELECTRIC	OHE
UNDERGROUND ELECTRIC	UGE
SANITARY SEWER	SS
GAS LINE	GL
CENTERLINE	CL
WATER LINE	W
FIBER OPTIC CABLE	FOC
COMMUNICATION	COM
STORM DRAINAGE PIPE	SDP
TREE LINE	TL
UTILITY POLE	UP
LIGHT POLE	LP
GUY WIRE	GW
ELECTRICAL CABINET	EC
LANDSCAPE LIGHT	LL
TRANSFORMER	TR
WATER VALVE	WV
WATER METER	WM
IRRIGATION VALVE	IV
FIRE HYDRANT	FH
TELEPHONE RISER	TR
UNDERGROUND COM MARKER	UCM
SANITARY SEWER MANHOLE	SSM
SANITARY CLEANOUT	SC
JUNCTION BOX	JB
OPEN THROAT INLET	OTI
DOUBLE WING CURB INLET	DWCI
SINGLE WING CURB INLET	SWCI
GRATE INLET	GI
FLOW ARROW	FA
GAS VALVE	GV
STUB PIPE	SP
AIR CONDITIONER	AC
SIGN	S
LOT NUMBER	LN
REINFORCED CONC. PIPE	RCP
POLYVINYL CHLORIDE	PVC
REGULAR PARKING SPACES	RPS
SURVEY CONTROL POINT	SCP
MEASURED RECORD	MR
DEED	D
PLAT	P
FINISH FLOOR ELEVATION	FFE
RIGHT-OF-WAY	R.O.W
BENCHMARK	B
CONCRETE MONUMENT FOUND	CMF
PROPERTY CORNER FOUND	PCF
PROPERTY CORNER SET WITH 1/2-INCH REBAR SET WITH YELLOW CAP STAMPED "JOHNSON CA-0193LS"	PCSS
CONIFEROUS TREE	CT
DECIDUOUS TREE	DT
EXISTING CONTOURS	EC
SPOT ELEVATION	SE
UTILITY & DRAINAGE EASEMENT	U&D
DIRT	D
CONCRETE	C
RIP-RAP	R
PROPERTY LINE	PL
FLAG POLE	FP

**SURVEYOR'S CERTIFICATE**

I, NATHAN G. JOHNSON, A REGISTERED LAND SURVEYOR, WITH THE FIRM OF JOHNSON AND ASSOCIATES, INC., HUNTSVILLE, ALABAMA HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA AS ADOPTED BY THE ALABAMA SOCIETY OF PROFESSIONAL LAND SURVEYORS.

ACCORDING TO THIS SURVEY, UNDER MY SUPERVISION.

*Nathan G. Johnson*



Nathan G. Johnson, AL PLS #16690  
njohnson@joengineering.com

04/26/2022

A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.

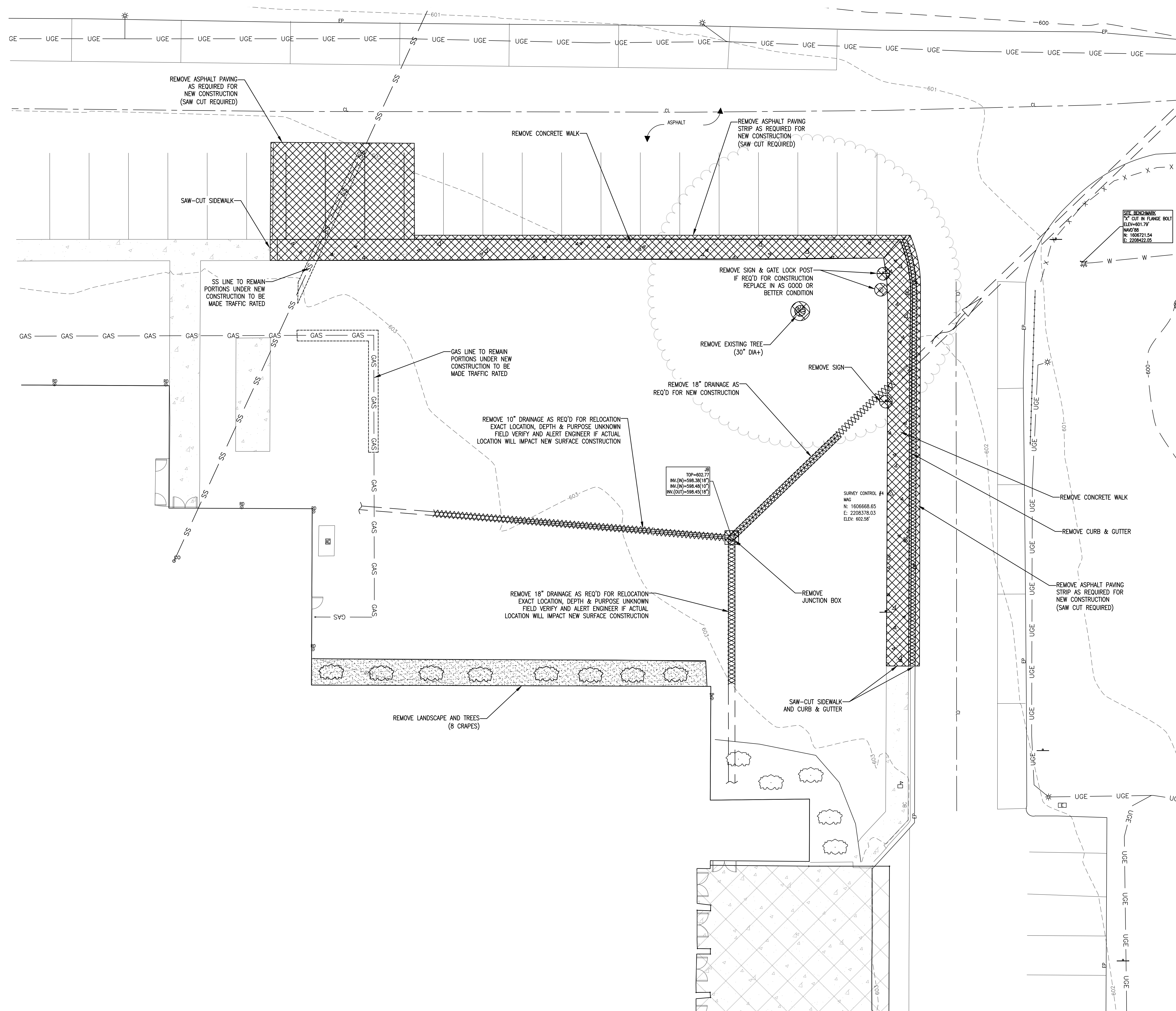
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9933

**JOHNSON & ASSOCIATES**  
ENGINEERING SURVEYING  
1000 W. HUNTSVILLE AVENUE, SUITE 200  
HUNTSVILLE, ALABAMA 35891  
TEL: 256-533-3333  
FAX: 256-533-3333

SHEET TITLE : LIMITED TOPOGRAPHIC SURVEY  
JOB NO. : 1948-SR  
DRAWN BY : DHD  
ISSUE DATE : 04-26-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : C1.0

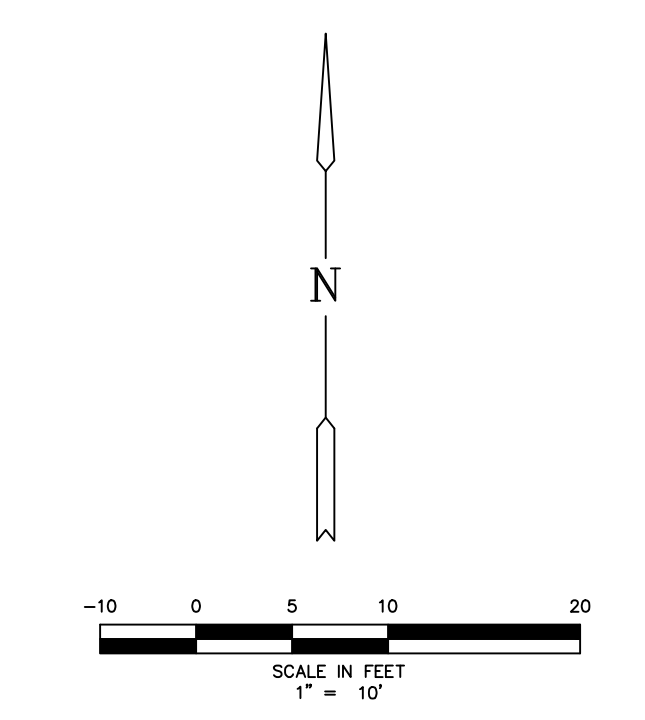
FILE PATH: I:\SURVEY\1948-SR Brewer HS Limited Topo.dwg PLOT DATE: 6/30/2022 10:25 AM

FILE PATH: T:\318\318\1948EN\_Brewer HS Addition for McKee Architects\318\318\DEMOLITION PLAN.dwg PLOT DATE: 7/6/2022 4:00 PM



DEMOLITION LEGEND	
X X X X	REMOVE EXISTING CURB & GUTTER, FENCE AND PIPES
[Pattern]	REMOVE EXISTING LANDSCAPE AREA, GRAVEL AND SOIL
[Pattern]	REMOVE EXISTING CONCRETE, ASPHALT OR STRUCTURE
[Pattern]	DEMOLISH BUILDING (NA)
[Symbol]	REMOVE EXISTING TREE OR SIGN
[Symbol]	PRESERVE EXISTING TREE OR FACILITY

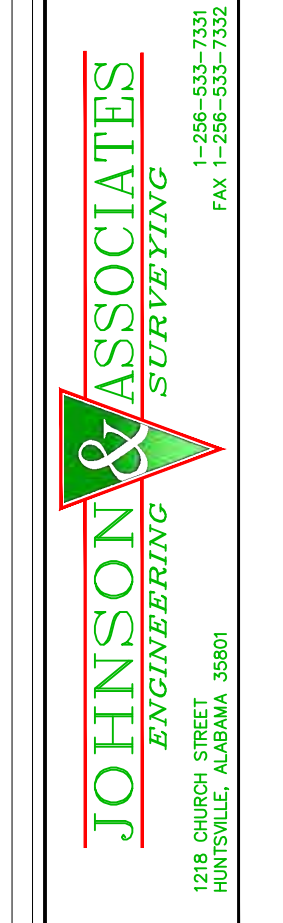
- NOTES
- CONTRACTOR IS RESPONSIBLE FOR AND SHOULD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ALL BURIED UTILITIES MAY NOT HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. UTILITIES SHOWN HEREON ARE APPROXIMATE AND MAY NOT REFLECT THE ACTUAL FIELD LOCATION OR THE PRESENCE OF OTHER UNDERGROUND UTILITIES.
  - EXCAVATION TRENCHES FOR ALL REMOVED UNDERGROUND UTILITIES SHALL BE BACKFILLED IN ACCORDANCE WITH CIVIL SITE DETAILS FOR UNDERGROUND UTILITIES IN TRAFFIC AREAS.
  - CAUTION: CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING ABOVE AND AROUND EXISTING UTILITIES.
  - ALL DEBRIS SHOULD BE HAULED OFF AND DISPOSED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR LOCAL RULES AND REGULATIONS.
  - CONTRACTOR TO STRIP ALL TOPSOIL IN THE AREA OF THE NEW CONSTRUCTION. STOCKPILE ENOUGH TOPSOIL TO RESPREAD 9" TO 12" OF TOPSOIL IN OPEN SPACE AREAS AND LANDSCAPE AREAS IN AND AROUND THE IMPROVED AREA. ALL EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE.
  - ADDITIONAL UNDERCUT MAY BE REQUIRED IN THE AREA OF THE NEW CONSTRUCTION DUE TO POOR SOIL CONDITIONS. CONTRACTOR SHOULD SEE GEOTECHNICAL REPORT FOR RECOMMENDATIONS AND SOILS REPORT FOR THE SITE. IF POOR SOILS OR OTHER UNEXPECTED CONDITIONS ARE ENCOUNTERED THAT WERE NOT COVERED IN THE SOILS REPORT, THEN THE CONTRACTOR SHOULD CONTACT THE PROJECT CIVIL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER TO DISCUSS OPTIONS FOR REMEDIATION AND TO DETERMINE IF A CHANGE ORDER IS WARRANTED TO ADDRESS THE CHANGED FIELD CONDITION.
  - CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR AREAS WHERE VEHICLE ARE ENTERING PUBLIC ROADWAYS AND TO RESTRICT PEDESTRIAN AND VEHICULAR TRAFFIC FROM ENTERING THE WORK ZONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY THROUGHOUT THE DURATION OF THE PROJECT.
  - COORDINATE WITH ARCHITECT/OWNER ON REUSE OR DISPOSITION OF EXISTING SIDEWALK AWNINGS, WHERE APPLICABLE.



**811**  
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**A NEW ADDITION AT BREWER HIGH SCHOOL**  
 FOR  
**MORGAN COUNTY BOARD OF EDUCATION**

**McKee and Associates**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833



SHEET TITLE : DEMOLITION PLAN

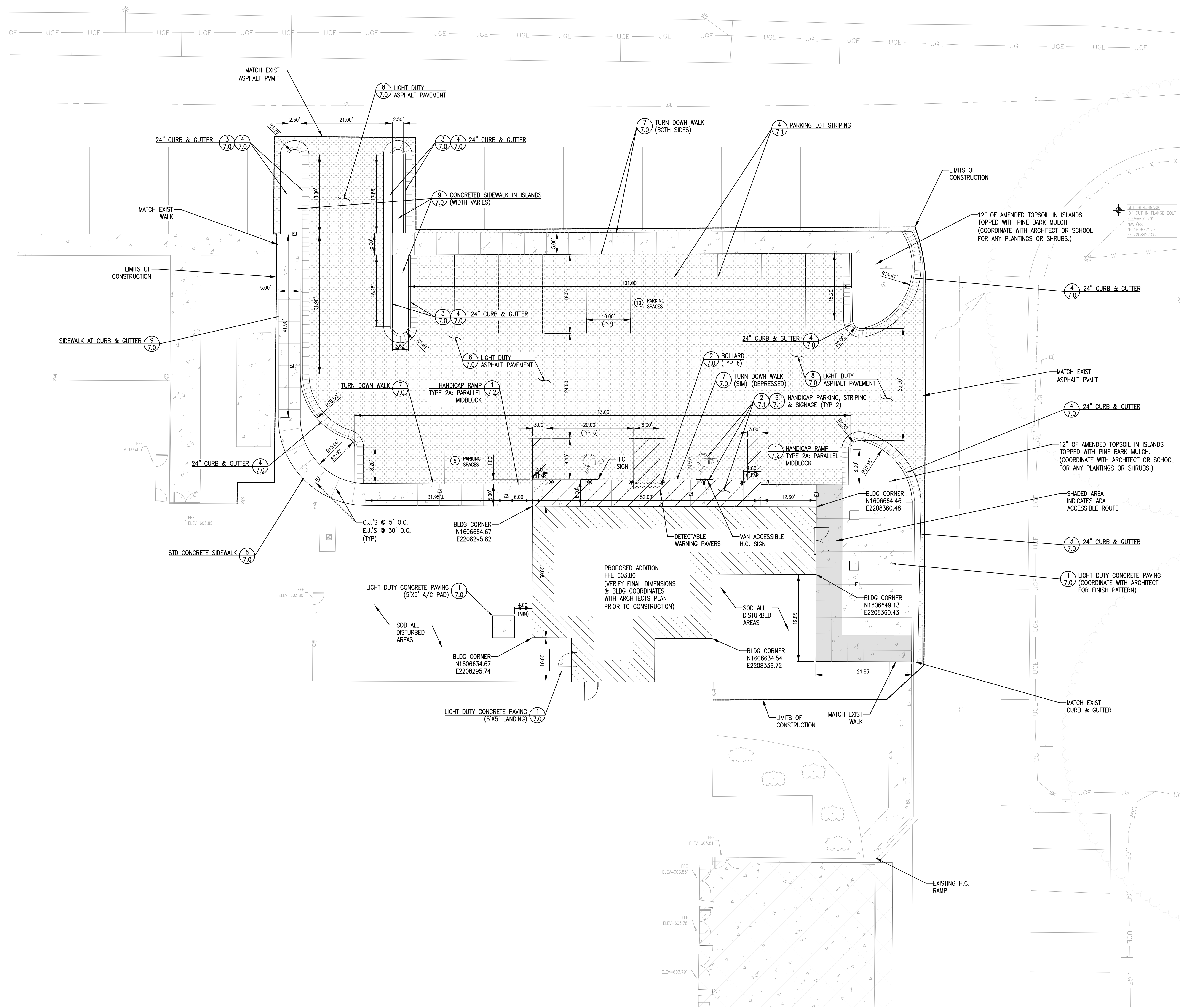
JOB NO. : JA 1948EN

DRAWN BY : RG

ISSUE DATE : 7-01-2022

REVISED DATE :  
REVISED DATE :  
REVISED DATE :

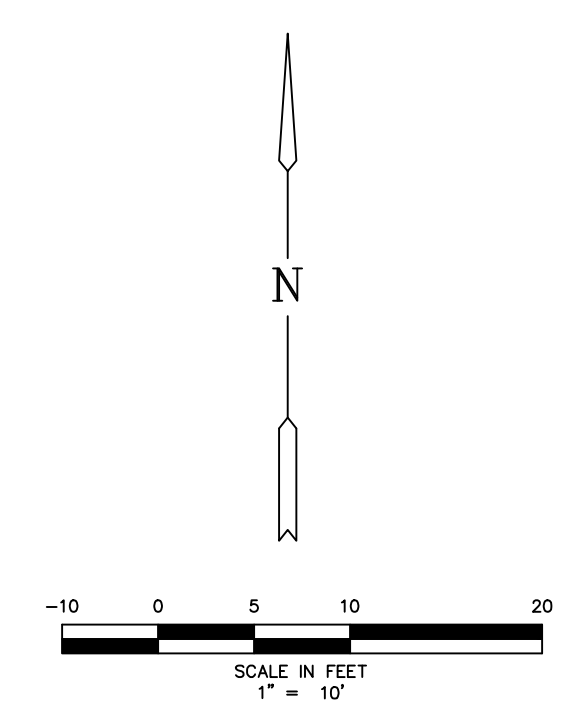
SHEET NO. : **C2.0**



- NOTES:
1. THIS PROPERTY IS LOCATED IN SECTION 23, TOWNSHIP 7 SOUTH, RANGE 2 WEST, WITHIN THE LIMITS OF MORGAN COUNTY, ALABAMA AND CONTAINS APPROXIMATELY 80.0 ACRES.
  2. THE ADDRESS FOR THIS PROPERTY IS 59 EVA ROAD, SOMERVILLE, AL 36570.
  3. THIS PROPERTY IS CURRENTLY NOT ZONED.
  4. ALL DIMENSIONS ARE GIVEN TO THE BACK OF CURB UNLESS OTHERWISE SHOWN.
  5. CONTRACTOR SHOULD VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HEREON ARE APPROXIMATE AND MAY NOT REFLECT THE ACTUAL FIELD LOCATION OR THE PRESENCE OF OTHER UNDERGROUND UTILITIES.
  6. IF ADVERSE CONDITIONS ON-SITE ARE UNCOVERED DURING CONSTRUCTION, THE DESIGN ENGINEER MUST BE NOTIFIED IN WRITING IMMEDIATELY. THE DESIGN ENGINEER MAY REQUIRE MODIFICATION OF THESE PLANS TO THE EXTENT NECESSARY TO ASSURE COMPLIANCE WITH THE LOCAL AUTHORITY'S CONSTRUCTION SPECIFICATIONS MANUAL.
  7. ALL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND MAINTAINED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  8. THE LOT IS LOCATED IN ZONE "X", ACCORDING TO A MAP OVERLAY OF THE FEDERAL INSURANCE RATE MAP COMMUNITY PANEL NO. 0110300285F, DATED AUGUST 16, 2018.
  9. TRENCH SAFETY SYSTEMS TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION PART 1926.
  10. CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER, THE LATEST EDITION AS ADOPTED BY THE LOCAL UTILITY PROVIDER OR THE MORGAN COUNTY ENGINEERING DEPARTMENT, ARE HEREBY MADE A PART OF THESE DRAWINGS.
  11. Q10 IS THE PEAK STORM WATER RUNOFF ASSOCIATED WITH A TYPE II, 10-YEAR STORM EVENT BASED ON THE RATIONAL EQUATION. THE SITE STORM WATER SYSTEM IS DESIGNED FOR THE 10-YEAR STORM EVENT.
  12. A TREE REMOVAL PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL OBTAIN SUCH PERMIT, IF REQUIRED.
  13. SITE SHALL BE GRADED SO THAT RUN-OFF WILL BE DIRECTED TO THE STREET OR TO DRAINAGE WAYS IN A DEDICATED EASEMENT.
  14. CONTRACTOR SHALL CONTACT ALABAMA ONE CALL AT 811 FOR UTILITY LOCATIONS PRIOR TO ANY SITE EXCAVATION.
  15. CONTRACTOR MAY BE REQUIRED TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH MORGAN COUNTY ENGINEERING DEPARTMENT AND THE LOCAL UTILITIES PROVIDER BEFORE COMMENCEMENT OF WORK.
  16. IF APPROVAL FROM ANY STATE OR FEDERAL REGULATORY AGENCY IS REQUIRED TO PERFORM WORK ON THIS PROJECT, A COPY OF EACH PERMIT REQUIRED SHALL BE DELIVERED TO THE MORGAN COUNTY ENGINEERING DEPARTMENT PRIOR TO THE APPROVAL OF SAID PLANS.

**LEGEND**

DETAIL #1 ON SHEET 7.0	
NUMBER OF PARKING SPOTS	
STANDARD CURB & GUTTER	
SPILL CURB & GUTTER	
CONCRETE PAVEMENT	
LIGHT DUTY ASPHALT PAVEMENT	
SIGN	
BENCHMARK	



**A NEW ADDITION AT BREWER HIGH SCHOOL**  
 FOR  
**MORGAN COUNTY BOARD OF EDUCATION**



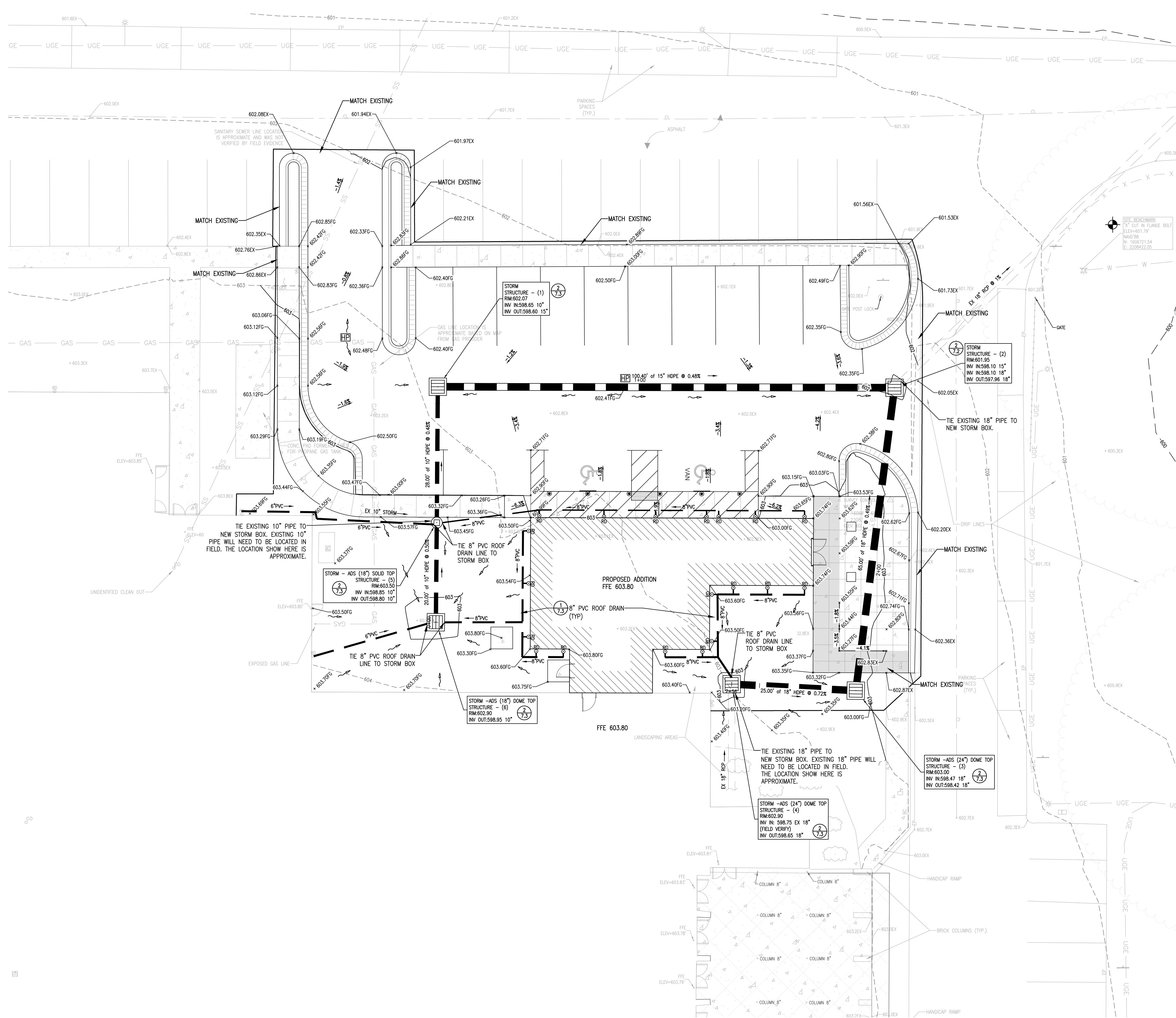
**MCKEE and ASSOCIATES**  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833



SHEET TITLE : DIMENSION PLAN  
 JOB NO. : JA 1948EN  
 DRAWN BY : RG  
 ISSUE DATE : 7-01-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **C3.0**



FILE PATH: T:\Sub\1948EN\_Brewer HS Addition for McKee Architects\Chit 3D Design\Production Drawings\1948EN\_CADD\GRADING & DRAINAGE PLAN\DWG PLOT DATE: 7/20/2022 1:08 PM



- GRADING NOTES:
1. THE DISTURBED AREA FOR THIS PROJECT IS 0.31 ACRES, THEREFORE AN ADEM/NPDES PERMIT WILL NOT BE REQUIRED.
  2. A CONSTRUCTION PERMIT SHALL BE REQUIRED FROM MORGAN COUNTY ENGINEERING DIVISION BEFORE CONSTRUCTION BEGINS.
  3. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM THE ADJOINING STREET DURING CONSTRUCTION. ANY DAMAGE TO THE EXISTING STREET MUST BE REPAIRED BY THE CONTRACTOR DURING THIS PROJECT.
  4. NO CHANGES SHALL BE MADE TO THESE APPROVED PLANS WITHOUT THE ENGINEER OF RECORD BEING NOTIFIED BEFORE CHANGES ARE MADE, AND THE ENGINEER OF RECORD ACQUIRING APPROVAL FROM THE CITY ENGINEER.
  5. ALL ROOF DRAINS AND DOWNSPOUTS SHOULD DISCHARGE TO UNDERGROUND COLLECTION SYSTEM AND TIE TO THE STORM DRAINAGE SYSTEM. (SEE DETAIL 1 ON SHEET 7.3 FOR CONNECTION)
  6. ALL SUBGRADES SHALL BE COMPACTED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS NOTED ON SHEET C7.0. CONTACT THE PROJECT GEOTECHNICAL ENGINEER AND/OR THE PROJECT CIVIL SITE ENGINEER WHEN ANY POOR SOILS ARE ENCOUNTERED TO DETERMINE WHAT OPTIONS MAY BE NEEDED TO REMEDIATE, AND TO DETERMINE ANY AMOUNTS OWED AS A CHANGED FIELD CONDITION.
  7. ONCE ALL SUBGRADE ELEVATIONS OUTSIDE OF THE BUILDING FOOTPRINT HAVE BEEN COMPLETED, THEN THE SITE CONTRACTOR SHALL CONTACT THE PROJECT CIVIL SITE ENGINEER TO SCHEDULE A "PROOF-ROLL" INSPECTION IN ACCORDANCE WITH MORGAN COUNTY GUIDELINES FOR SUBDIVISION ROADWAYS. NO PAVEMENT CAN BE LAID UNTIL THE SUBGRADE AND D.G.A. BASE HAS BEEN APPROVED BY THE CIVIL SITE ENGINEER AND UPON THE SITE "PASSING" PROPER COMPACTION REQUIREMENTS AS PER CITY OF HUNTSVILLE STANDARDS.
  8. MODULAR RETAINING WALLS SHALL MEET MANUFACTURER'S SPECIFICATIONS FOR GEOGRID FABRIC AND FRENCH DRAINS. BACKFILL IMMEDIATELY BEHIND THE WALLS SHALL BE GRAVEL. FOUR INCHES(4") PERFORATED PIPES, UNLESS OTHERWISE NOTED ON PLANS, WRAPPED IN FABRIC SHALL BE PLACED BEHIND THE WALL, RUN THE FULL LENGTH OF THE WALL, AND DAYLIGHT AT THE ENDS (OR AT DRAINAGE STRUCTURES AT THE ENDS).
  9. CONTRACTOR TO UNDERCUT TO ACCEPTABLE SOILS AND BACKFILL WITH STONE BASE COURSE ALDOT NO. 825B (COMPACTED TO 100% STANDARD PROCTOR AS PER AASHTO T-99).
  10. IF A DISCREPANCY ARISES BETWEEN THE DRAWINGS AND FIELD CONDITION, OR WHERE A DETAIL IS DOUBTFUL OF INTERPRETATION, OR AN UNANTICIPATED FIELD CONDITION IS ENCOUNTERED, THE ENGINEER OF RECORD SHALL BE NOTIFIED RIGHT AWAY TO DISCUSS THE ISSUE. ANY INSTRUCTIONS OR CLARIFICATIONS SHALL BE CONFIRMED IN WRITING AND DISTRIBUTED TO ALL AFFECTED PARTIES.
  11. WHEREVER THERE IS A CONFLICT BETWEEN DETAILS AND SPECIFICATIONS, OR BETWEEN DETAILS, OR WHERE DOUBTFUL OF INTERPRETATIONS, THE MOST RESTRICTIVE SHALL GOVERN AS DETERMINED BY THE ENGINEER OF RECORD.
  12. TRENCH SAFETY SYSTEMS TO MEET, AS MINIMUM, THE LATEST REQUIREMENTS OF OSHA SAFETY AND HEALTH, REGULATION PART 1926, SUBPART F.
  13. COMPACTION FOR THE BUILDING FOOTING TO MEET THE ARCHITECT'S PLANS OR GEOTECHNICAL ENGINEER'S REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN AS DETERMINED BY THE ENGINEER OF RECORD.
  14. ALL SLOPES, DITCHES, SWALES, AND DETENTION PONDS, AS WELL AS DISTURBED AREAS INSIDE OF THE RIGHT-OF-WAY AND DRAINAGE EASEMENTS ARE TO BE FULLY SODDED.
  15. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND HAVE HAY SPREAD OUT AS SOON AS POSSIBLE TO PREVENT EROSION.
  16. ALL DISTURBED AREAS SHALL HAVE A FULL STAND OF GRASS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
  17. CONTRACTOR IS TO CONTACT MORGAN COUNTY ENGINEERING DEPARTMENT (256-773-5297) TO COORDINATE THE INSPECTION AND INSTALLATION OF STORM PIPING AND INLETS WITHIN RIGHT OF WAY OR UTILITY AND DRAINAGE EASEMENTS.

**LEGEND**

U & D	UTILITY & DRAINAGE ESMT
R.O.W	RIGHT-OF-WAY
CL	CENTERLINE ROAD
EP	EDGE OF PAVEMENT
OHE	OVERHEAD ELEC.
EP	ELECTRIC POLE
4:1	PROPOSED FINISH GRADE SLOPE
GR	PROPOSED GRATE INLET
RC	REINFORCED CONC. PIPE
HDPE	HIGH-DENSITY POLYETHYLENE
DF	DRAINAGE FLOW ARROW
3	STORM STRUCTURE NUMBER
BM	BENCHMARK
795	PROPOSED CONTOURS
EXISTING CONTOURS	EXISTING CONTOURS
X 728.35	SPOT ELEVATION
SWCI	SINGLE WING S-TYPE INLET
DWCI	DOUBLE WING S-TYPE INLET
FL	FLOWLINE
JB	JUNCTION BOX
OTT	OPEN THROAT WEIR INLET
TC	TOP OF CURB/CONCRETE
FG	FINISH GRADE
CL	CENTERLINE
HP	HIGH POINT
LP	LOW POINT
RD	PROPOSED ROOF DRAIN
LNDC	CONCRETE LANDSCAPING
---	EXISTING STORM DRAIN LINE
---	PROPOSED STORM DRAIN LINE
---	PROPOSED CURB INLET
---	RIPRAP
---	PROPOSED SLOPED-PAVED
---	DETAIL CALLOUT
---	PROPOSED LIGHT DUTY ASPHALT PAVING

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ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833

**JOHNSON & ASSOCIATES**  
ENGINEERING & SURVEYING  
1000 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 233-3333



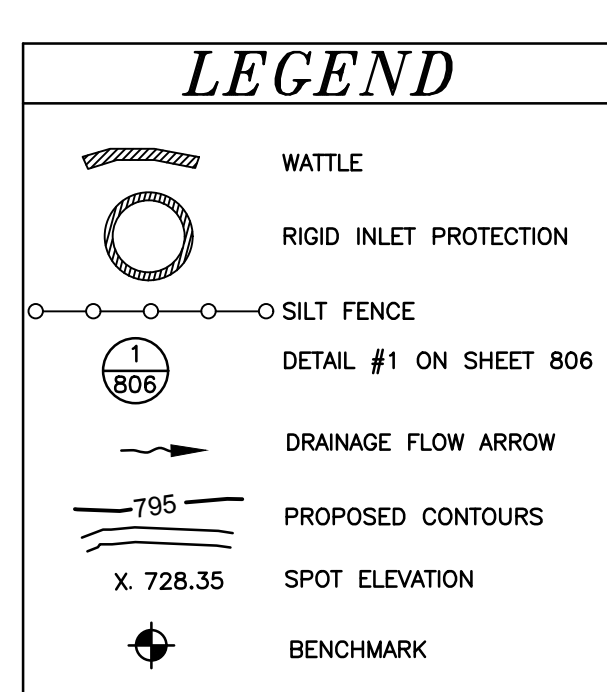
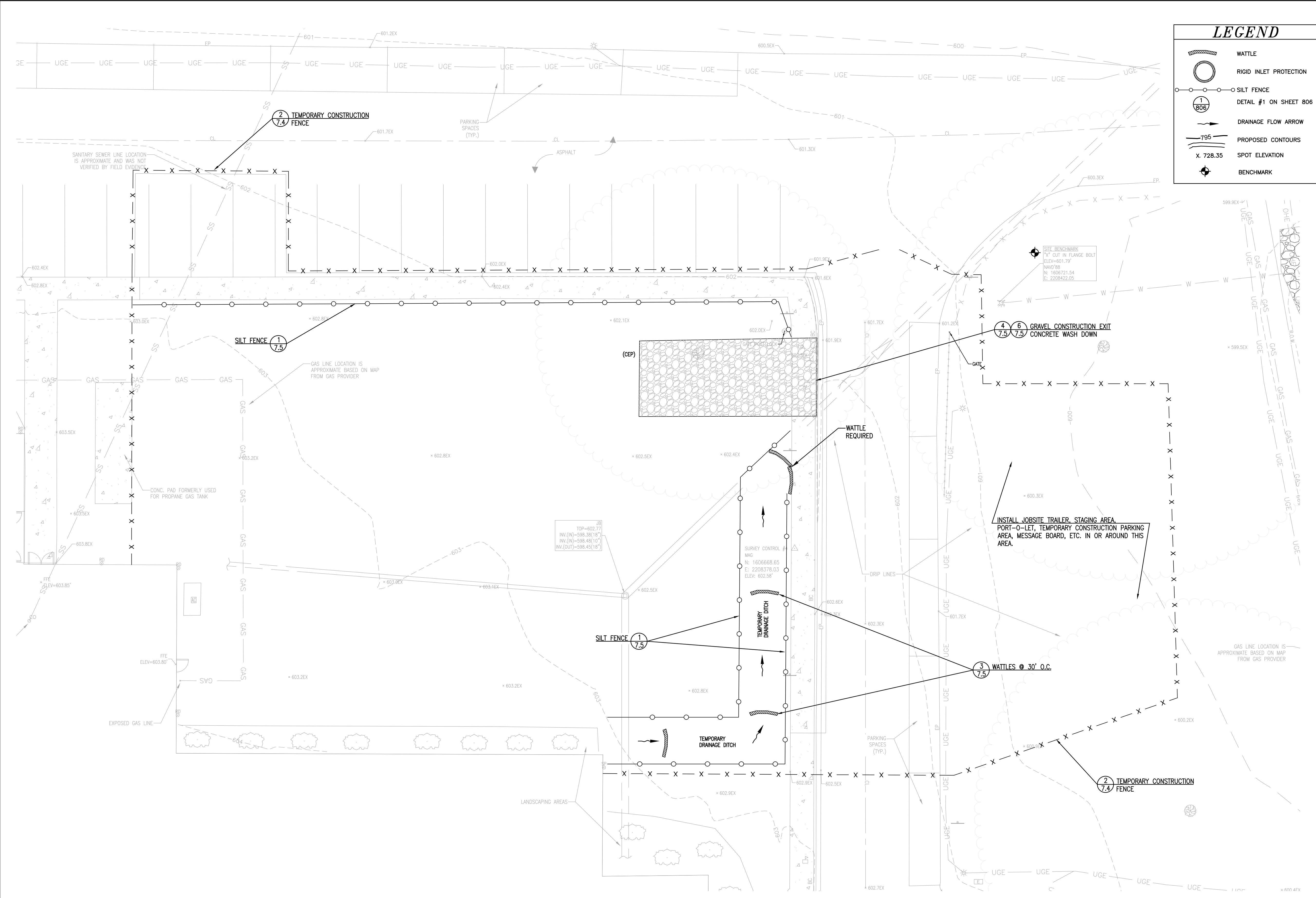
*Nathan S. Johnson*  
ENGINEER



Know what's below.  
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SHEET TITLE : GRADING & DRAINAGE PLAN  
JOB NO. : JA 1948EN  
DRAWN BY : RG  
ISSUE DATE : 7-01-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : C4.0

FILE PATH: T:\Submittal\Brewer\_High\_School\811\EROSION\_CONTROL\_PLAN.Dwg PLOT DATE: 7/6/2022 6:59 PM



**EROSION AND SEDIMENT CONTROL NOTES:**

THE PROJECT MUST BE CONSTRUCTED ACCORDING TO THE EROSION AND SEDIMENT CONTROL PLANS AND IN SUCH A MANNER AS TO MINIMIZE ADVERSE OFF-SITE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES; AND BY INSTALLING BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. ALL SOIL-DISTURBING ACTIVITIES PERFORMED BY THE SITE CONTRACTOR WILL BE ACCOMPLISHED IN SUCH MANNER AS TO PREVENT LOSS OF SEDIMENT FROM THE CONSTRUCTION SITE DURING RAINFALL EVENTS. TO ACCOMPLISH THIS, THE PROJECT ENGINEER RECOMMENDS THE SPECIFIC STEPS NOTED BELOW TO BE TAKEN DURING CONSTRUCTION. THIS LIST IS NOT INTENDED TO BE A COMPREHENSIVE LIST OF EVENTS AND THE SITE CONTRACTOR SHOULD USE HIS/HER DISCRETION TO DETERMINE THE BEST SEQUENCE OF CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED IN A TIMELY FASHION TO PERFORM PROPERLY.

- 1.) IMMEDIATELY AFTER MOBILIZATION BUT PRIOR TO INITIATION OF ANY SOIL-DISTURBING ACTIVITIES, THE SITE CONTRACTOR WILL INSTALL ALL SPECIFIED PERIMETER CONTROLS ON THE SITE. THESE PRACTICES HAVE BEEN DESIGNED TO TRAP SEDIMENT PRODUCED DURING SOIL-DISTURBING ACTIVITIES, AND TO PREVENT OFF-SITE DAMAGE. IT IS RECOGNIZED THAT SOME SITE PREPARATION MAY BE REQUIRED TO PROPERLY INSTALL THESE PRACTICES. IN ADDITION, THE SITE CONTRACTOR SHALL INSTALL A MESSAGE BOARD WITH ALL PERTINENT FEDERAL, STATE AND LOCAL NOTICES FOR WORKERS, INCLUDING OSHA GUIDELINES, PERMITS, ETC. THE SITE CONTRACTOR SHALL INSTALL A COMMERCIAL SANITATION FACILITY FOR THE USE OF PERSONNEL WORKING ON THE SITE AND MAINTAIN THE FACILITY THROUGHOUT THE DURATION OF CONSTRUCTION. IT IS RECOMMENDED THAT THE PORT-A-JOHN, THE JOB SITE TRAILER, TEMPORARY CONSTRUCTION WORKER PARKING, CONSTRUCTION ENTRANCE, CONSTRUCTION MESSAGE BOARD, CONCRETE WASH-DOWN CONTAINMENT, AND ENTRANCE WASH-DOWN AREA AND CONTAINMENT CONSTRUCTION ENTRANCE (SEE PLAN FOR SHOULD ALL BE LOCATED NEAR THE LOCATION).
- 2.) THE RECOMMENDED SEQUENCES FOR THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS: PERIMETER CONTROLS (SOD BARRIERS AND FENCING); CONSTRUCTION ENTRANCE; INSTALLATION OF DESIGNATED AREAS; CLEANING OF STREET(S) DURING CONSTRUCTION; SITE GRADING (INCLUDING TEMPORARY SLOPE STABILIZATION) AS NEEDED; INSTALLATION OF DRAINAGE SYSTEM (INCLUDING WATTLES, INLET PROTECTION, SILT FENCES, ETC.); INSTALLATION OF UTILITIES; BUILDING CONSTRUCTION; SIDEWALKS; PAVING; FINAL GRADING; AND SPREADING OF TOPSOIL. INSTALLATION OF SOD OR FINAL GROUND COVER AND LANDSCAPING; REMOVAL OF TEMPORARY PRACTICES AND PERIMETER CONTROLS; AND SITE CLEANUP.
- 3.) DURING ALL SOIL-DISTURBING ACTIVITIES, THE SITE CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH TOPSOIL, STOCKPILES, FILL MATERIAL, OR SOIL ON SLOPES. THE CONTRACTOR WILL MAINTAIN A DATE LOG OF ALL SOIL DISTURBANCE ACTIVITIES OR MAJOR GRADING OPERATIONS, AND OF ALL MANAGEMENT PRACTICE OR CONTROL MEASURE INSTALLATIONS. ALL EXISTING DRAINAGEWAYS SHOULD REMAIN UNTIL PROPOSED STORM SYSTEM IS FUNCTIONING PROPERLY.
- 4.) IF, DURING THE COURSE OF CONSTRUCTION, ANY AREA OF SOIL (INCLUDING STOCKPILES) REMAINS EXPOSED FOR MORE THAN THIRTEEN CALENDAR DAYS OR LONGER WITHOUT SUITABLE EROSION CONTROL, THEN TEMPORARY STABILIZATION MEASURES SHOULD BE INSTALLED. SUITABLE TEMPORARY STABILIZATION MEASURES ARE PERIMETER CONTROLS AND GROUND PROTECTION MEASURES (SUCH AS GRAVEL BAGS, SAND BAGS, SEED/STRAW, HYDROSEED, MULCH, EROSION CONTROL BLANKETS, WATTLES, SILT FENCES, ETC.) ALONG ALL SIDE-SLOPE AND DOWN-SLOPE BORDERS OF THE DISTURBED AREA. NOTE THAT PERIMETER CONTROLS ALONE MAY NOT BE SUCCESSFUL; MOVEMENT OF LARGE AMOUNTS OF SEDIMENT PRODUCED BY HEAVY RAIN ON EXPOSED SOIL COULD OVERWHELM SUCH MEASURES.
- 5.) AT THE SITE CONTRACTOR'S DISCRETION, ADDITIONAL TEMPORARY EROSION CONTROL PRACTICES (SUCH AS GRAVEL BAGS, SAND BAGS, SEED/STRAW, WATTLES, AND SILT FENCES) MAY BE INSTALLED ALONG ANY DOWN-SLOPE OF SITE-SLOPE PERIMETER OF A SOIL-DISTURBED AREA TO PREVENT SEDIMENT MOVEMENT. ANCHORED EROSION CONTROL MATING, MULCHES, OR OTHER ACCEPTABLE METHODS MAY ALSO BE INSTALLED TO STABILIZE ANY UNPROTECTED SLOPES DURING CONSTRUCTION, AND HOLD THEM TO THE APPROPRIATE GRADE. AS SITE CONDITIONS WARRANT, THE SITE CONTRACTOR MAY ALSO CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS. THE SITE CONTRACTOR SHOULD PRESENT ALL PROPOSED MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW AND CONSULTATION.
- 6.) THE SITE CONTRACTOR OR HIS/HER QUALIFIED REPRESENTATIVE SHALL INSPECT ALL SPECIFIED PRACTICES DAILY AND AFTER ALL RAINFALL EVENTS TO INSURE THAT EACH SPECIFIED PRACTICE REMAINS INTACT AND FUNCTIONING PROPERLY. ANY DAMAGE NOTED DURING SUCH INSPECTIONS SHALL BE REPAIRED PROMPTLY TO RESTORE THE PRACTICE TO ORIGINAL SPECIFICATIONS. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AS SPECIFIED IN THE PLANS, INCLUDING PERIODIC RE-GRADING, REMOVAL OF SEDIMENT BUILD-UP, ETC.
- 7.) SITE CONTRACTOR SHOULD UTILIZE WATER TRUCKS TO KEEP MOISTURE CONTENT OF DAMAGE NOTED DURING SUCH INSPECTIONS SHALL BE REPAIRED PROMPTLY TO SUBGRADE AT OPTIMUM LEVEL TO IMPROVE COMPACTION RESULTS AND TO REDUCE RESTORE THE PRACTICE TO ORIGINAL SPECIFICATIONS. THE SITE CONTRACTOR WILL DUST FROM CONSTRUCTION TRAFFIC. WHEN WATER IS USED FOR THESE PURPOSES BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL OR TO PROMOTE VEGETATION, THE SITE CONTRACTOR WILL PREVENT THE ESCAPE OF PRACTICES AS SPECIFIED IN THE PLANS, INCLUDING PERIODIC RE-GRADING, THIS WATER AND ANY SEDIMENT IT MAY CARRY FROM THE CONSTRUCTION SITE. IN REMOVAL OF SEDIMENT BUILD-UP, ETC. ADDITION, A CONCRETE WASH AREA WILL BE REQUIRED WITH A SYSTEM SETUP TO CAPTURE ALL WASH WATER AND SPOIL/FLUSHED CONCRETE FROM DELIVERY TRUCKS.
- 8.) IT IS RECOMMENDED THAT ALL FUELING OF HEAVY EQUIPMENT BE PERFORMED OFFSITE WHERE FACILITIES ARE ESTABLISHED TO DEAL WITH EMERGENCY SPILL CONTAINMENT AND EMERGENCY SPILL EQUIPMENT AND PRACTICES ARE IN PLACE TO HANDLE THE POTENTIAL HAZARDS OF EQUIPMENT REFUELING. IF THE SITE CONTRACTOR CHOOSES TO ESTABLISH AN ON-SITE FUELING AREA, THEN A FUELING PLAN MUST BE SUBMITTED TO THE PROJECT ENGINEER OUTLINING THE EMERGENCY SPILL PLAN AND SPILL CONTAINMENT MEASURES THAT WILL BE IMPLEMENTED BY THE SITE CONTRACTOR TO ENSURE THAT 100% OF ALL FUEL STORED OR BROUGHT TO THE SITE IN EXCESS OF 100 GALLONS CAN BE CONTAINED AND THAT EMERGENCY CLEAN-UP MEASURES WILL BE STORED ONSITE AND THAT PERSONNEL WILL BE TRAINED TO PROPERLY FUEL THE EQUIPMENT AND RECEIVE TRAINING FOR EMERGENCY SPILL CONTAINMENT AND CLEAN-UP MEASURES.
- 9.) CARE MUST BE EXERCISED TO PREVENT EXCESSIVE OFF-SITE TRACKING OF MUD OR SEDIMENT BY CONSTRUCTION VEHICLES. IN ADDITION TO THE SPECIFIED GRAVEL CONSTRUCTION ENTRANCE, PROPERLY GRAVELED TRANSITION AREAS SHOULD BE ESTABLISHED AT ALL TEMPORARY SITE EXITS TO ASSIST IN MUD REMOVAL FROM DEPARTING VEHICLES. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE ADJACENT STREET DAILY, OR AS DIRECTED BY THE CITY OR COUNTY, WHEN MUD IS TRACKED ONTO THE STREET FROM THE CONSTRUCTION SITE.
- 10.) DURING THE SITE CLEANUP PRIOR TO THE FINAL ACCEPTANCE DATE, EACH TEMPORARY BMP WILL BE COMPLETELY REMOVED AND THE AREA FINISHED TO THE APPROPRIATE POST-PROJECT CONDITION. THIS INVOLVES FINAL GRADING, AND INSTALLATION OF SOD OR SEED/STRAW ON ALL BARE SOIL AREAS OR FINAL GROUND COVER AS SHOWN ON THE LANDSCAPE PLAN. A MINIMUM VEGETATION DENSITY OF 85 PERCENT (COVERAGE REQUIREMENT IS 100%), OR AN EQUIVALENT SEDIMENT STABILIZATION MEASURE (GEOTEXTILES, JUTE NETTING, MULCHES, OR GABIONS, ETC.), IS REQUIRED UNTIL VEGETATION IS ESTABLISHED.

NOTE: "THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.

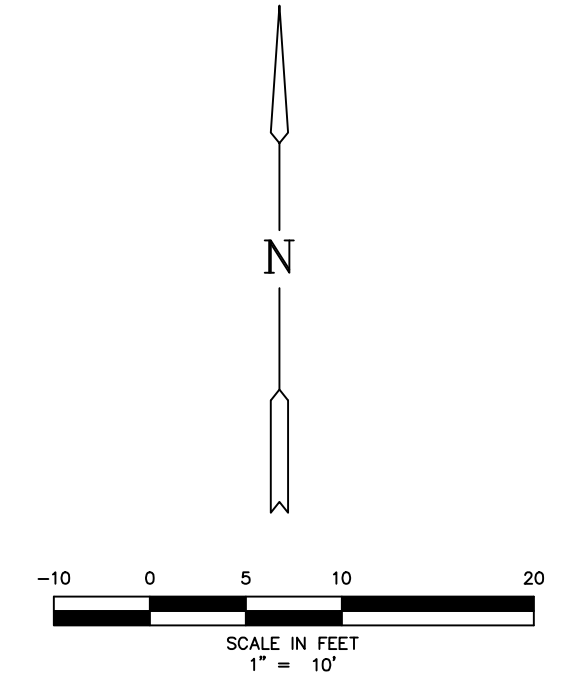
ABBREVIATIONS AND BEST MANAGEMENT PRACTICES AS DEFINED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOLUMES 1 & 2			
(BB)	BRUSH/FABRIC BARRIER	(FP)	FABRIC DROP INLET PROTECTION
(CB)	CHECK DAMS	(GS)	GRASS SWALE
(CEP)	CONSTRUCTION EXIT PAD	(GK)	GROUNDS KEEPING
(DC)	DUST CONTROL	(LG)	LAND GRADING
(DS)	DROP STRUCTURES	(LS)	LINED SWALE
(DV)	DIVERSIONS	(ML)	MULCHING
(ECB)	EROSION CONTROL BLANKET	(OP)	OUTLET PROTECTION
(PS)	PERMANENT SEEDING	(PV)	PRESERVATION OF VEGETATION
(SOD)	SODDING OR SODDED SWALE	(RO)	ROCK CHECK DAM
(SVG)	SHRUB, VINE AND GROUND COVER PLANTING	(ST)	SEDIMENT TRAP
(SWS)	SHRUB, VINE AND GROUND COVER PLANTING	(RS)	RIPRAP-LINED SWALE
(TS)	TEMPORARY SEEDING	(RW)	RETAINING WALL
(TSO)	TOPSOILING (6" AVERAGE DEPTH)	(SB)	SEDIMENT BARRIER
(SDB)	STORMWATER DETENTION BASIN		

**EROSION & SEDIMENTATION CONTROL**

I, NATHAN G. JOHNSON, THE ENGINEER OF RECORD, DO HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS COMPLETE AND CORRECT AND IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF MORGAN COUNTY, ALABAMA, AND THAT PROPOSED GRADING AS SHOWN HEREON COMPLIES WITH GOOD ENGINEERING PRACTICE AND FURTHER DO CERTIFY THAT ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS INDICATED HEREON ARE DESIGNATED TO MINIMIZE THE EFFECTS OF EROSION AND SEDIMENTATION ON SITE.

*Nathan G. Johnson*  
 NATHAN G. JOHNSON  
 # 16690

DATE: 07/01/2022



**EROSION AND SEDIMENT CONTROL PHASING:**

- PHASE 1**
1. A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT THE ENTRANCE(S) NOTED PRIOR TO ENTERING SITE TO COMMENCE GRADING.
  2. SILT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF SITE PRIOR TO STARTING DEMOLITION.
  3. PLACE WATTLES NEAR ENTRANCES AND ALONG EXISTING DOWNSTREAM DRAINAGE WAYS, AS SHOWN HEREON.
  4. SECURE ALL PERMITS FOR TREE REMOVAL, SITE GRADING, ETC. FROM THE CITY OR COUNTY. POST ALL PERMITS, NOTICES, ETC. ON MESSAGE BOARD WHICH IS TO BE INSTALLED AT BEGINNING OF CONSTRUCTION. INSTALL AND MAINTAIN SANITATION FACILITY, IF REQUIRED IN BID DOCUMENTS.
- PHASE 2**
1. SILT FENCE SHALL BE INSTALLED IN THE AREA(S) SHOWN HEREON UPON GRADING OF SUB-GRADE AND PRIOR TO PLACEMENT OF BASE.
  2. ANY TEMPORARY SLOPES OR GRADED AREAS TO BE LEFT EXPOSED FOR MORE THAN 15 DAYS SHALL BE TEMPORARILY SEEDING AND MULCHED.
  3. SOLID SODDING OR EROSION CONTROL NETTING SHALL BE PLACED ON ALL FINAL 3:1 OR GREATER SLOPES TO INSURE GRASS ESTABLISHMENT.
  4. SOLID SOD OR SEED AND MULCHING OF ALL AREAS SHALL BE PERFORMED AND MAINTAINED UPON COMPLETION OF GRADING FOR THAT PORTION OF THE PROJECT.
- PHASE 3**
1. SILT FENCE SHALL REMAIN IN PLACE ALONG THE PERIMETER OF PROPOSED PROJECT, IN DRAINAGE WAYS, ROADWAYS, ETC. UNTIL GRASS IS ESTABLISHED (75% COVERAGE) FOR THAT AREA.
  2. WATTLES SHALL REMAIN UNTIL THE IMMEDIATE AREA CONTRIBUTING DRAINAGE TO THAT LOCATION IS ESTABLISHED (75% COVERAGE).
  3. REMOVE ALL SEDIMENT, DEBRIS, AND TEMPORARY EROSION CONTROL MEASURES.

**STORM WATER MANAGEMENT**

**EROSION AND SEDIMENT CONTROL NOTES**

- GENERAL NOTES**
- 1.) THE TOTAL DISTURBED AREA REQUIRED TO CONSTRUCT THE IMPROVEMENT SHOWN HEREON IS 13,530 S.F. (LESS THAN 1.0 ACRE), THEREFORE ADEM/NPDES PERMIT WILL NOT BE REQUIRED.
  - 2.) ALTHOUGH NO ADEM/NPDES PERMIT APPLICATION IS REQUIRED, THE SITE CONTRACTOR WILL BE REQUIRED TO MEET THE FOLLOWING REQUIREMENTS DURING ALL PHASES OF THE PROJECT. PLEASE NOTE THAT ALL CONSTRUCTION SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OF THE U. S. ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS EROSION & SEDIMENT CONTROL PLAN HAS BEEN PREPARED FOR THIS PROJECT IN ORDER TO SHOW SOME OF THE BEST MANAGEMENT PRACTICES (BMPs) THAT ARE REQUIRED TO BE IMPLEMENTED BY THE SITE CONTRACTOR IN ORDER TO COMPLY WITH EPA REGULATIONS (CFR 40, PART 122) AND THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) GUIDELINES UNDER A NPDES GENERAL PERMIT. THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE EROSION & SEDIMENT CONTROL PLAN (WHICH INCLUDES THE PLANS AND DETAILS SHOWN ON THIS SET OF CONSTRUCTION PLANS). IT IS ALSO THE SITE CONTRACTOR'S RESPONSIBILITY TO PREVENT SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE SITE CONTRACTOR SHALL NOT LEAVE THE SITE UNTIL ALL EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT PRACTICES ARE IN PLACE, HAVE BEEN INSPECTED AND FOUND SATISFACTORY; AND ALL TEMPORARY PRACTICES HAVE BEEN PROPERLY REMOVED.

**A NEW ADDITION AT BREWER HIGH SCHOOL**  
 FOR  
**MORGAN COUNTY BOARD OF EDUCATION**



**McKee and ASSOCIATES ARCHITECTS, INC.**  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834- 9833



SHEET TITLE : **EROSION & SEDIMENT CONTROL PLAN-PRE CONST.**

JOB NO. : **JA 1948EN**

DRAWN BY : **RG**

ISSUE DATE : **7-01-2022**

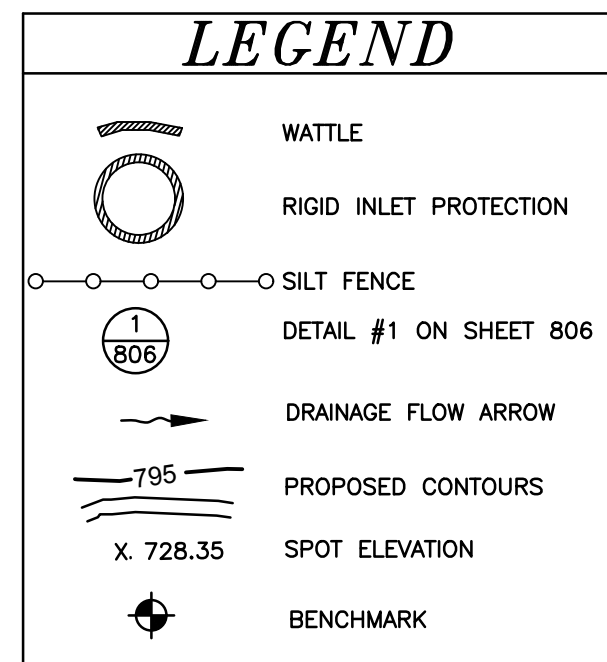
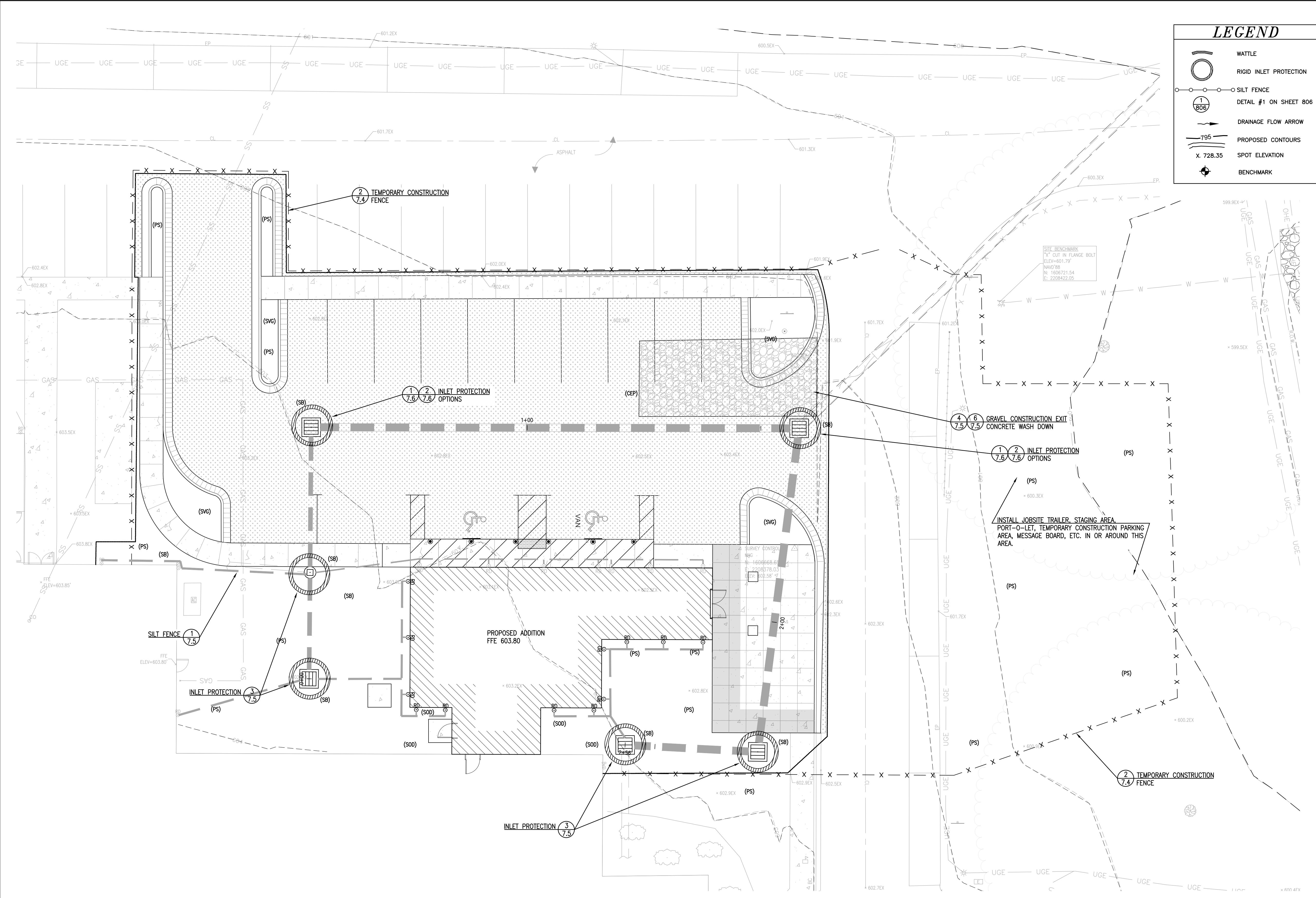
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**EROSION AND SEDIMENT CONTROL NOTES:**  
THE PROJECT MUST BE CONSTRUCTED ACCORDING TO THE EROSION AND SEDIMENT CONTROL PLANS AND IN SUCH A MANNER AS TO MINIMIZE ADVERSE OFF-SITE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES; AND BY INSTALLING BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. ALL SOIL-DISTURBING ACTIVITIES PERFORMED BY THE SITE CONTRACTOR WILL BE ACCOMPLISHED IN SUCH MANNER AS TO PREVENT LOSS OF SEDIMENT FROM THE CONSTRUCTION SITE DURING RAINFALL EVENTS. TO ACCOMPLISH THIS, THE PROJECT ENGINEER RECOMMENDS THE SPECIFIC STEPS NOTED BELOW TO BE TAKEN DURING CONSTRUCTION. THIS LIST IS NOT INTENDED TO BE A COMPREHENSIVE LIST OF EVENTS AND THE SITE CONTRACTOR SHOULD USE HIS/HER DISCRETION TO DETERMINE THE BEST SEQUENCE OF CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED IN A TIMELY FASHION TO PERFORM PROPERLY.

- 1.) IMMEDIATELY AFTER MOBILIZATION BUT PRIOR TO INITIATION OF ANY SOIL-DISTURBING ACTIVITIES, THE SITE CONTRACTOR WILL INSTALL ALL SPECIFIED PERIMETER CONTROLS ON THE SITE. THESE PRACTICES HAVE BEEN DESIGNED TO TRAP SEDIMENT PRODUCED DURING SOIL-DISTURBING ACTIVITIES, AND TO PREVENT OFF-SITE DAMAGE. IT IS RECOGNIZED THAT SOME SITE PREPARATION MAY BE REQUIRED TO PROPERLY INSTALL THESE PRACTICES. IN ADDITION, THE SITE CONTRACTOR SHALL INSTALL A MESSAGE BOARD WITH ALL PERTINENT FEDERAL, STATE AND LOCAL NOTICES FOR WORKERS, INCLUDING OSHA GUIDELINES, PERMITS, ETC. THE SITE CONTRACTOR SHALL INSTALL A COMMERCIAL SANITATION FACILITY FOR THE USE OF PERSONNEL WORKING ON THE SITE AND MAINTAIN THE FACILITY THROUGHOUT THE DURATION OF CONSTRUCTION. IT IS RECOMMENDED THAT THE PORT-A-JOHN, THE JOB SITE TRAILER, TEMPORARY CONSTRUCTION WORKER PARKING, CONSTRUCTION ENTRANCE, CONSTRUCTION MESSAGE BOARD, CONCRETE WASH-DOWN, AND ENTRANCE WASH-DOWN AREA AND CONTAINMENT CONSTRUCTION ENTRANCE (SEE PLAN FOR SHOULD ALL BE LOCATED NEAR THE LOCATION).
- 2.) THE RECOMMENDED SEQUENCES FOR THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS: PERIMETER CONTROLS (SILT BARRIERS AND FENCING AND CONSTRUCTION ENTRANCE) INSTALLED AT DESIGNATED AREAS; CLEANING OF STREET(S) DURING CONSTRUCTION; SITE GRADING (INCLUDING TEMPORARY SLOPE STABILIZATION) AS NEEDED; INSTALLATION OF DRAINAGE SYSTEM (INCLUDING WATTLES, INLET PROTECTION, SILT FENCES, ETC.); INSTALLATION OF UTILITIES; BUILDING CONSTRUCTION; SIDEWALKS; PAVING; FINAL GRADING AND SPREADING OF TOPSOIL; INSTALLATION OF SOD OR FINAL GROUND COVER AND LANDSCAPING; REMOVAL OF TEMPORARY PRACTICES AND PERIMETER CONTROLS; AND SITE CLEANUP.
- 3.) DURING ALL SOIL-DISTURBING ACTIVITIES, THE SITE CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH TOPSOIL, STOCKPILES, FILL MATERIAL, OR SOIL ON SLOPES. THE CONTRACTOR WILL MAINTAIN A DATE LOG OF ALL SOIL DISTURBANCE ACTIVITIES OR MAJOR GRADING OPERATIONS, AND OF ALL MANAGEMENT PRACTICE OR CONTROL MEASURE INSTALLATIONS. ALL EXISTING DRAINAGEWAYS SHOULD REMAIN UNTIL PROPOSED STORM SYSTEM IS FUNCTIONING PROPERLY.
- 4.) IF, DURING THE COURSE OF CONSTRUCTION, ANY AREA OF SOIL (INCLUDING STOCKPILES) REMAINS EXPOSED FOR MORE THAN THIRTEEN CALENDAR DAYS OR LONGER WITHOUT SUITABLE EROSION CONTROL, THEN TEMPORARY STABILIZATION MEASURES SHOULD BE INSTALLED. SUITABLE TEMPORARY STABILIZATION MEASURES ARE PERIMETER CONTROLS AND GROUND PROTECTION MEASURES (SUCH AS GRAVEL BAGS, SAND BAGS, SEED/STRAW, HYDROSEED, MULCH, EROSION CONTROL BLANKETS, WATTLES, SILT FENCES, ETC.) ALONG ALL SIDE-SLOPE AND DOWN-SLOPE BORDERS OF THE DISTURBED AREA. NOTE THAT PERIMETER CONTROLS ALONE MAY NOT BE SUCCESSFUL IN PREVENTING MOVEMENT OF LARGE AMOUNTS OF SEDIMENT PRODUCED BY HEAVY RAIN ON EXPOSED SOIL COULD OVERWHELM SUCH MEASURES.
- 5.) AT THE SITE CONTRACTOR'S DISCRETION, ADDITIONAL TEMPORARY EROSION CONTROL PRACTICES (SUCH AS GRAVEL BAGS, SAND BAGS, SEED/STRAW, WATTLES, AND SILT FENCES) MAY BE INSTALLED ALONG ANY DOWN-SLOPE OF SOIL-DISTURBED AREA TO PREVENT SEDIMENT MOVEMENT. ANCHORED EROSION CONTROL MATING, MULCHES, OR OTHER ACCEPTABLE METHODS MAY ALSO BE INSTALLED TO STABILIZE ANY UNPROTECTED SLOPES DURING CONSTRUCTION, AND HOLD THEM TO THE APPROPRIATE GRADE. AS SITE CONDITIONS WARRANT, THE SITE CONTRACTOR MAY ALSO CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR EFFECTIVENESS. THE SITE CONTRACTOR SHOULD PRESENT ALL PROPOSED MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN TO THE PROJECT ENGINEER FOR REVIEW AND CONSULTATION.
- 6.) THE SITE CONTRACTOR OR HIS/HER QUALIFIED REPRESENTATIVE SHALL INSPECT ALL SPECIFIED PRACTICES DAILY AND AFTER ALL RAINFALL EVENTS TO INSURE THAT EACH SPECIFIED PRACTICE REMAINS INTACT AND FUNCTIONING PROPERLY. ANY DAMAGE NOTED DURING SUCH INSPECTIONS SHALL BE REPAIRED PROMPTLY TO RESTORE THE PRACTICE TO ORIGINAL SPECIFICATIONS. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AS SPECIFIED IN THE PLANS, INCLUDING PERIODIC RE-GRADING, REMOVAL OF SEDIMENT BUILD-UP, ETC.
- 7.) SITE CONTRACTOR SHOULD UTILIZE WATER TRUCKS TO KEEP MOISTURE CONTENT OF DAMAGE NOTED DURING SUCH INSPECTIONS SHALL BE REPAIRED PROMPTLY TO SUBGRADE AT OPTIMUM LEVEL TO IMPROVE COMPACTION RESULTS AND TO REDUCE RESTORE THE PRACTICE TO ORIGINAL SPECIFICATIONS. THE SITE CONTRACTOR WILL DUST FROM CONSTRUCTION TRAFFIC. WHEN WATER IS USED FOR THESE PURPOSES BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL OR TO PROMOTE VEGETATION, THE SITE CONTRACTOR WILL PREVENT THE ESCAPE OF PRACTICES AS SPECIFIED IN THE PLANS, INCLUDING PERIODIC RE-GRADING, THIS WATER AND ANY SEDIMENT IT MAY CARRY FROM THE CONSTRUCTION SITE. IN REMOVAL OF SEDIMENT BUILD-UP, ETC. ADDITION, A CONCRETE WASH AREA WILL BE REQUIRED WITH A SYSTEM SETUP TO CAPTURE ALL WASH WATER AND SPOIL/FLUSHED CONCRETE FROM DELIVERY TRUCKS.
- 8.) IT IS RECOMMENDED THAT ALL FUELING OF HEAVY EQUIPMENT BE PERFORMED OFFSITE WHERE FACILITIES ARE ESTABLISHED TO DEAL WITH EMERGENCY SPILL CONTAINMENT AND EMERGENCY SPILL EQUIPMENT AND PRACTICES ARE IN PLACE TO HANDLE THE POTENTIAL HAZARDS OF EQUIPMENT REFUELING. IF THE SITE CONTRACTOR CHOOSES TO ESTABLISH AN ON-SITE FUELING AREA, THEN A FUELING PLAN MUST BE SUBMITTED TO THE PROJECT ENGINEER OUTLINING THE EMERGENCY SPILL PLAN AND SPILL CONTAINMENT MEASURES THAT WILL BE IMPLEMENTED BY THE SITE CONTRACTOR TO ENSURE THAT 100% OF ALL FUEL STORED OR BROUGHT TO THE SITE IN EXCESS OF 100 GALLONS CAN BE CONTAINED AND THAT EMERGENCY CLEAN-UP MEASURES WILL BE STORED ONSITE AND THAT PERSONNEL WILL BE TRAINED TO PROPERLY FUEL THE EQUIPMENT AND RECEIVE TRAINING FOR EMERGENCY SPILL CONTAINMENT AND CLEAN-UP MEASURES.
- 9.) CARE MUST BE EXERCISED TO PREVENT EXCESSIVE OFF-SITE TRACKING OF MUD OR SEDIMENT BY CONSTRUCTION VEHICLES. IN ADDITION TO THE SPECIFIED GRAVEL CONSTRUCTION ENTRANCE, PROPERLY GRAVELLED TRANSITION AREAS SHOULD BE ESTABLISHED AT ALL TEMPORARY SITE EXITS TO ASSIST IN MUD REMOVAL FROM DEPARTING VEHICLES. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE ADJACENT STREET DAILY, OR AS DIRECTED BY THE CITY OR COUNTY, WHEN MUD IS TRACKED ONTO THE STREET FROM THE CONSTRUCTION SITE.
- 10.) DURING THE SITE CLEANUP PRIOR TO THE FINAL ACCEPTANCE DATE, EACH TEMPORARY BMP WILL BE COMPLETELY REMOVED AND THE AREA FINISHED TO THE APPROPRIATE POST-PROJECT CONDITION. THIS INVOLVES FINAL GRADING, AND INSTALLATION OF SOD OR SEED/STRAW ON ALL BARE SOIL AREAS OR FINAL GROUND COVER AS SHOWN ON THE LANDSCAPE PLAN. A MINIMUM VEGETATION DENSITY OF 85 PERCENT (COVERAGE REQUIREMENT IS 100%), OR AN EQUIVALENT SEDIMENT STABILIZATION MEASURE (GEOTEXTILES, JUTE NETTING, MULCHES, OR GABIONS, ETC.), IS REQUIRED UNTIL VEGETATION IS ESTABLISHED.

**EROSION AND SEDIMENT CONTROL PHASING:**

- PHASE 1**
1. A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT THE ENTRANCE(S) NOTED PRIOR TO ENTERING SITE TO COMMENCE GRADING.
  2. SILT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF SITE PRIOR TO STARTING DEMOLITION.
  3. PLACE WATTLES NEAR ENTRANCES AND ALONG EXISTING DOWNSTREAM DRAINAGE WAYS, AS SHOWN HEREON.
  4. SECURE ALL PERMITS FOR TREE REMOVAL, SITE GRADING, ETC. FROM THE CITY OR COUNTY. POST ALL PERMITS, NOTICES, ETC. ON MESSAGE BOARD WHICH IS TO BE INSTALLED AT BEGINNING OF CONSTRUCTION. INSTALL AND MAINTAIN SANITATION FACILITY, IF REQUIRED IN BID DOCUMENTS.
- PHASE 2**
1. SILT FENCE SHALL BE INSTALLED IN THE AREA(S) SHOWN HEREON UPON GRADING OF SUB-GRADE AND PRIOR TO PLACEMENT OF BASE.
  2. ANY TEMPORARY SLOPES OR GRADED AREAS TO BE LEFT EXPOSED FOR MORE THAN 13 DAYS SHALL BE TEMPORARILY SEED AND MULCHED.
  3. SOLID SODDING OR EROSION CONTROL NETTING SHALL BE PLACED ON ALL FINAL 3:1 OR GREATER SLOPES TO INSURE GRASS ESTABLISHMENT.
  4. SOLID SOD OR SEED AND MULCHING OF ALL AREAS SHALL BE PERFORMED AND MAINTAINED UPON COMPLETION OF GRADING FOR THAT PORTION OF THE PROJECT.
- PHASE 3**
1. SILT FENCE SHALL REMAIN IN PLACE ALONG THE PERIMETER OF PROPOSED PROJECT, IN DRAINAGE WAYS, ROADWAYS, ETC. UNTIL GRASS IS ESTABLISHED (75% COVERAGE) FOR THAT AREA.
  2. WATTLES SHALL REMAIN UNTIL THE IMMEDIATE AREA CONTRIBUTING DRAINAGE TO THAT LOCATION IS ESTABLISHED (75% COVERAGE).
  3. REMOVE ALL SEDIMENT, DEBRIS, AND TEMPORARY EROSION CONTROL MEASURES.

**STORM WATER MANAGEMENT**  
**EROSION AND SEDIMENT CONTROL NOTES**

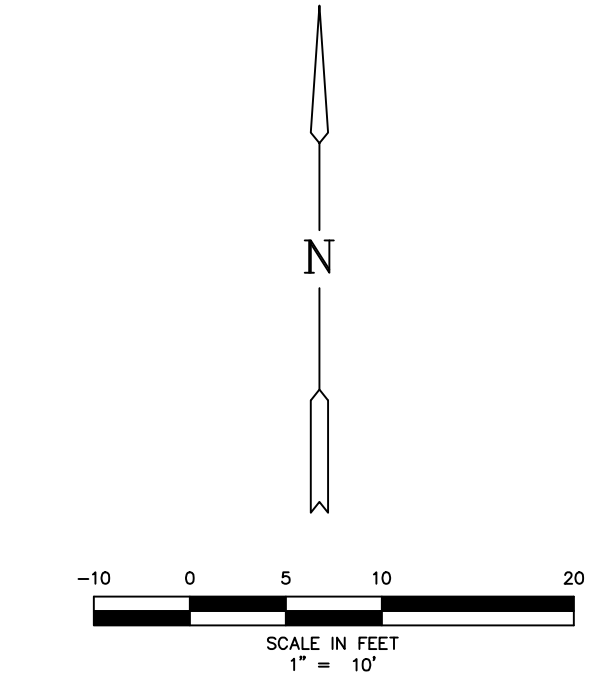
- GENERAL NOTES**
- 1.) THE TOTAL DISTURBED AREA REQUIRED TO CONSTRUCT THE IMPROVEMENT SHOWN HEREON IS 13,530 S.F. (LESS THAN 1.0 ACRE), THEREFORE ADEM/NPDES PERMIT WILL NOT BE REQUIRED.
  - 2.) ALTHOUGH NO ADEM/NPDES PERMIT APPLICATION IS REQUIRED, THE SITE CONTRACTOR WILL BE REQUIRED TO MEET THE FOLLOWING REQUIREMENTS DURING ALL PHASES OF THE PROJECT. PLEASE NOTE THAT ALL CONSTRUCTION SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OF THE U. S. ENVIRONMENTAL PROTECTION AGENCY (EPA). THIS EROSION & SEDIMENT CONTROL PLAN HAS BEEN PREPARED FOR THIS PROJECT IN ORDER TO SHOW SOME OF THE BEST MANAGEMENT PRACTICES (BMPs) THAT ARE REQUIRED TO BE IMPLEMENTED BY THE SITE CONTRACTOR IN ORDER TO COMPLY WITH EPA REGULATIONS (CFR 40, PART 122) AND THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) GUIDELINES UNDER A NPDES GENERAL PERMIT. THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE EROSION & SEDIMENT CONTROL PLAN (WHICH INCLUDES THE PLANS AND DETAILS SHOWN ON THIS SET OF CONSTRUCTION PLANS). IT IS ALSO THE SITE CONTRACTOR'S RESPONSIBILITY TO PREVENT SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE SITE CONTRACTOR SHALL NOT LEAVE THE SITE UNTIL ALL EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT PRACTICES ARE IN PLACE, HAVE BEEN INSPECTED AND FOUND SATISFACTORY, AND ALL TEMPORARY PRACTICES HAVE BEEN PROPERLY REMOVED.

NOTE: "THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION AND ANY REVISION THEREOF, ARE HEREBY MADE A PART OF THESE PLANS.

ABBREVIATIONS AND BEST MANAGEMENT PRACTICES AS DEFINED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOLUMES 1 & 2							
(BB)	BRUSH/FABRIC BARRIER	(FP)	FABRIC DROP INLET PROTECTION				
(CB)	CHECK DAMS	(GS)	GRASS SWALE	(PV)	PRESERVATION OF VEGETATION	(SOD)	SODDING OR SODDED SWALE
(CEP)	CONSTRUCTION EXIT PAD	(GK)	GROUNDS KEEPING	(RD)	ROCK CHECK DAM	(ST)	SEDIMENT TRAP
(DC)	DUST CONTROL	(LG)	LAND GRADING	(RS)	RIPRAP-LINED SWALE	(TS)	TEMPORARY SEEDING
(DS)	DROP STRUCTURES	(LS)	LINED SWALE	(RW)	RETAINING WALL	(TSD)	TOPSOILING (6" AVERAGE DEPTH)
(DV)	DIVERSIONS	(MU)	MULCHING	(SB)	SEDIMENT BARRIER		
(ECB)	EROSION CONTROL BLANKET	(OP)	OUTLET PROTECTION	(SDB)	STORMWATER DETENTION BASIN		

**EROSION & SEDIMENTATION CONTROL**  
I, NATHAN G. JOHNSON, THE ENGINEER OF RECORD, DO HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS COMPLETE AND CORRECT AND IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF MORGAN COUNTY, ALABAMA, AND THAT PROPOSED GRADING AS SHOWN HEREON COMPLIES WITH GOOD ENGINEERING PRACTICE AND FURTHER DO CERTIFY THAT ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS INDICATED HEREON ARE DESIGNATED TO MINIMIZE THE EFFECTS OF EROSION AND SEDIMENTATION ON SITE.

DATE: 07/01/2022  
NATHAN G. JOHNSON  
# 16690



**A NEW ADDITION AT BREWER HIGH SCHOOL**  
FOR  
**MORGAN COUNTY BOARD OF EDUCATION**

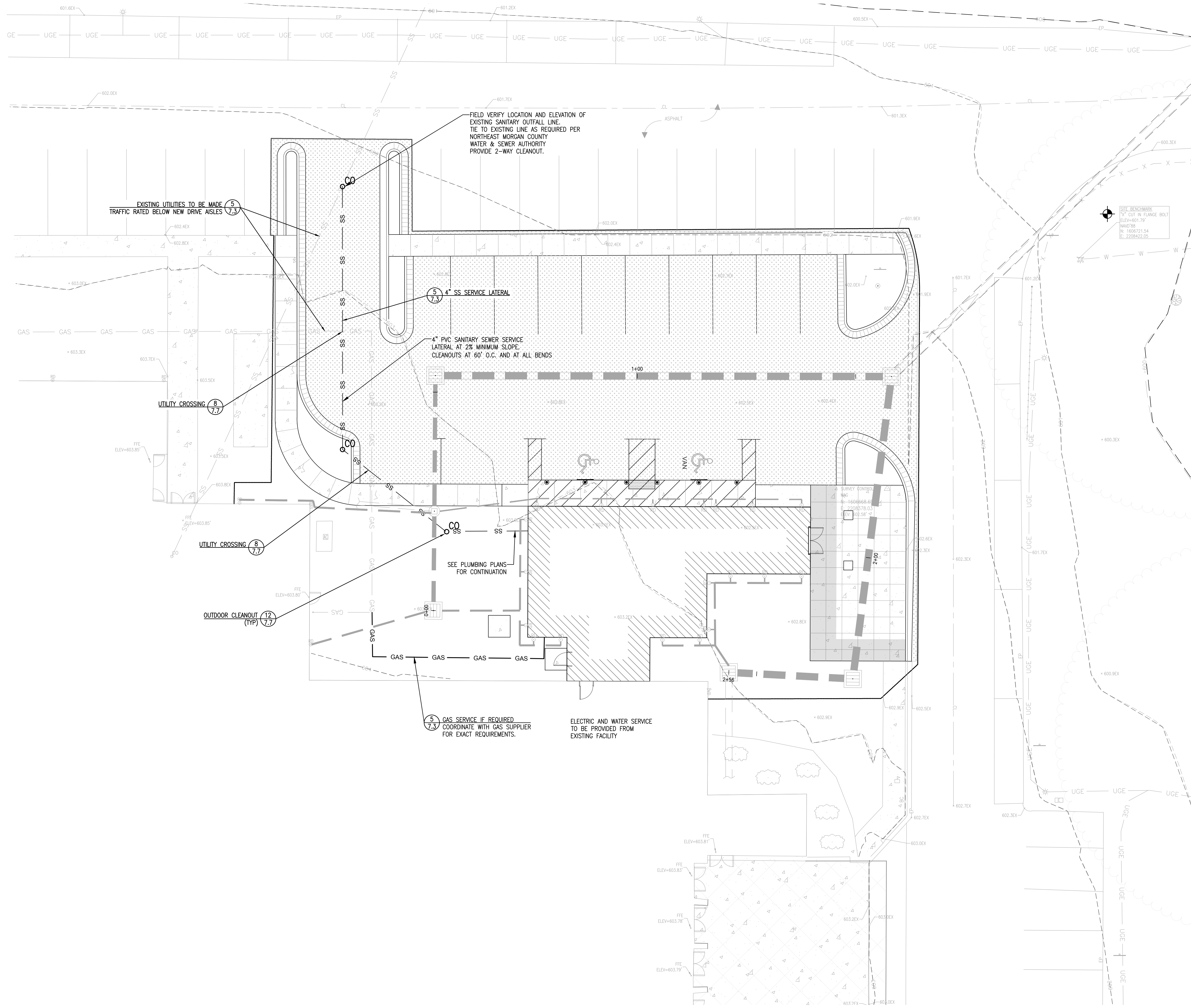


**McKee and ASSOCIATES**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834- 9833



*Nathan G. Johnson*

SHEET TITLE : **EROSION & SEDIMENT CONTROL PLAN - CONST.**  
JOB NO. : **JA 1948EN**  
DRAWN BY : **RG**  
ISSUE DATE : **7-01-2022**  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : **C5.1**

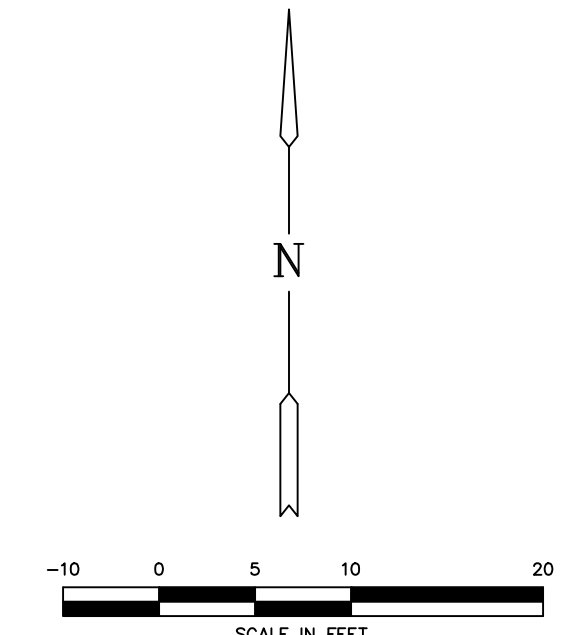


UTILITIES NOTES

1. THE CONTRACTOR IS TO PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS AND ALL OTHER SURVEY POINTS. WHERE THE REMOVAL OF SUCH POINTS IS NECESSARY FOR THE ACCOMPLISHMENT OF THE WORK, THE CONTRACTOR IS TO INFORM THE ENGINEER IN WRITING, PRIOR TO THE DISTURBANCE OF ANY POINT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN ISSUED BY THE ENGINEER.
2. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING STREET AND SIDEWALK THAT IS CREATED DURING CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO EXCAVATION. WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF UTILITIES DEPICTED IN THESE DRAWINGS.
4. CONTRACTOR IS RESPONSIBLE FOR AND SHOULD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ALL BURIED UTILITIES WERE NOT LOCATED DURING THE TOPOGRAPHIC SURVEY. UTILITIES SHOWN HEREON ARE APPROXIMATE AND MAY NOT REFLECT THE ACTUAL FIELD LOCATION OR THE PRESENCE OF OTHER UNDERGROUND UTILITIES.
5. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES SUPPLIERS FOR ALL ELECTRIC, GAS, SEWER, AND WATER SERVICE CONNECTIONS, INSPECTION REQUIREMENTS, STANDARDS AND GUIDELINES.
6. PROPOSED INSTALLATION OF ALL SANITARY LATERALS TO MEET NORTHEAST MORGAN COUNTY WATER AND SEWER AUTHORITY STANDARDS AND GUIDELINES.
7. ALL SLOPES ON SEWER LATERALS MUST BE 2.00% MINIMUM. CONTRACTOR TO VERIFY SLOPES FOR ADEQUATE FALL PRIOR TO CONSTRUCTION.
8. MATCH RIM ELEVATIONS FOR SANITARY SEWER CLEANOUTS TO FINISH GRADE (TYPICAL).
9. THRUST BLOCKING IS REQUIRED AT ALL CHANGES IN DIRECTION FOR NEW WATER LINES.
10. SITE CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR ON SEWER INVERTS.
11. SITE CONTRACTOR SHALL SECURE COPIES OF ALL PROJECT MECHANICAL & ELECTRICAL DRAWINGS.
12. SANITARY SEWER PVC PIPE TO BE SCH. 40.
13. SANITARY SEWER DUCTILE IRON PIPE TO BE CLASS 350.
14. SIZE OF WATER AND ELECTRIC LINES ARE DEPENDENT UPON USAGE NEEDS. SEE ARCHITECT'S PLANS FOR VERIFICATION OF UTILITIES.
15. ALL UTILITIES TO BE UNDERGROUND.
16. WATER SERVICE CONNECTION AND INSTALLATION TO BE COORDINATED WITH NORTHEAST MORGAN COUNTY WATER AND SEWER AUTHORITY.
17. INSTALL FIRE DEPARTMENT CONNECTION IN COMPLIANCE WITH NFPA-14.
18. ELECTRICAL, COMMUNICATIONS, AND FIRE PROTECTION LINES ARE TO BE RUN INTO THE RISER/MAINTENANCE ROOM. SEE ARCHITECTURE AND/OR MEP PLANS FOR ACTUAL LOCATION OF SERVICE CONNECTIONS INTO BUILDING.
19. ALL SANITARY SEWER SERVICE LATERALS ARE TO BE 4" PVC AND LAID IN A UTILITY PAVEMENT TRENCH IN ACCORDANCE WITH DETAILS 10 & 11, SHEET C7.7.
20. ALL CLEANOUTS ARE TO BE COMMERCIAL GRADE IN ACCORDANCE WITH NORTHEAST MORGAN COUNTY WATER AND SEWER AUTHORITY STANDARDS, AND THE TOP ELEVATION IS TO BE SET TO THE FINISH GRADE OF THE PLACEMENT.

LEGEND

	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	TEE
	WATER SERVICE LINE
	FLUSHING VALVE ASSEMBLY REDUCER
	PROPOSED GAS METER
	PROPOSED GAS SERVICE LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER LINE
	PROPOSED CLEAN-OUT
	PROPOSED GAS LINE
	PROPOSED ELECTRIC LINE
	DETAIL #1 ON SHEET CD.5
	PROPOSED ELEC. TRANSFORMER
	PROPOSED TELEPHONE RISER
	OVERHEAD ELECTRIC
	UNDERGROUND TV CABLE
	UNDERGROUND TELEPHONE LINE
	UNDERGROUND ELECTRIC
	FIBER OPTIC CABLE
	BENCH MARK



Know what's below.  
Call before you dig.

SANITARY SEWER GENERAL NOTES

1. THE INTENT OF THE DRAWINGS IS THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER, READY FOR USE, OCCUPANCY OR OPERATION BY THE OWNER.
2. EFFORTS HAVE BEEN MADE TO INDICATE LOCATIONS OF EXISTING STRUCTURES, PIPING, UTILITIES, AND TOPOGRAPHY. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT MEASUREMENTS AND LOCATIONS OF ALL EXISTING ITEMS BEFORE INITIATING ANY CONSTRUCTION OPERATIONS. ANY EXISTING STRUCTURE, PIPING OR UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR DESIGN ENGINEER. SUFFICIENT ADVANCE COORDINATION OF DISRUPTION WITH THE OWNER OF ANY FACILITY IS THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.
3. THE LIMITS OF CONSTRUCTION SHALL BE THE PROPERTY LINES OR EASEMENT LINES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ACQUIRE ANY ADDITIONAL EASEMENTS REQUIRED FOR CONSTRUCTION AT NO ADDITIONAL EXPENSE TO THE OWNER AND/OR DESIGN ENGINEER.
4. EXISTING GRADING AND DRAINAGE ELEVATIONS SHALL BE MAINTAINED AFTER CONSTRUCTION UNLESS OTHERWISE SHOWN ON PLANS.
5. ALL BURIED PIPES SHALL HAVE A MINIMUM OF 3'-0" COVER AS MEASURED VERTICALLY FROM FINISHED GRADE TO THE TOP OF PIPE, UNLESS OTHERWISE NOTED.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT, ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS THAT APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR DESIGN ENGINEER.
7. ALL SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "NORTHEAST MORGAN COUNTY WATER AND SEWER AUTHORITY STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF NEW SANITARY SEWERS," LATEST EDITION.
8. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR TV, VACUUM TESTING MANHOLES AND AIR TESTING SEWER LINES. A 72-HOUR NOTICE IS REQUIRED PRIOR TO TESTING PROCEDURES. REPRESENTATIVES FROM NORTHEAST MORGAN COUNTY WATER AND SEWER AUTHORITY, AND BUILDING INSPECTION (FOR LATERALS) SHALL BE PRESENT TO VERIFY TESTING RESULTS.
9. THE CONTRACTOR SHALL PROVIDE RELEVANT INFORMATION CONCERNING MATERIALS, LOCATION OF IMPROVEMENTS, RED-LINED DRAWINGS OF FIELD CHANGES, AND ANY OTHER AVAILABLE RECORD DRAWINGS AND NOTES TO A LAND SURVEYOR, HIRED BY THE CONTRACTOR IN ORDER TO PREPARE THE "AS-BUILT/RECORD DRAWING" UPON

- COMPLETION OF CONSTRUCTION. THE CONTRACTOR WILL NOTIFY THE DESIGN ENGINEER AND THE CONTRACTOR'S LAND SURVEYOR AT VARIOUS STAGES OF CONSTRUCTION IN ORDER TO ALLOW FOR INSPECTIONS, FIELD SURVEY BEFORE COVERING IMPROVEMENTS, PHOTOGRAPHS, ETC. THAT WILL BE USED IN PREPARING THE RECORD DRAWING NEEDED FOR THE DESIGN ENGINEER'S ACCEPTANCE CERTIFICATION. FAILURE TO NOTIFY THE DESIGN ENGINEER IN ORDER TO PROVIDE ADEQUATE INSPECTIONS AND THE CONTRACTOR'S LAND SURVEYOR FOR FIELD LOCATIONS DURING CONSTRUCTION WILL RESULT IN THE CONTRACTOR HAVING TO EXPOSE THE IMPROVEMENTS FOR VISUAL INSPECTION. ALL COSTS REQUIRED TO DIG UP THE IMPROVEMENTS.
10. IF AVAILABLE, THE ARCHITECT SHALL PROVIDE GEOTECHNICAL INFORMATION SUCH AS BORINGS, SOIL TESTS, ETC. UPON WRITTEN REQUEST.
  11. ALL CONCRETE, ASPHALT DRIVEWAYS AND OTHER ROAD ACCESSSES, SHALL BE SAWCUT AND REPAIRED IN AS GOOD OR BETTER CONDITION AS BEFORE CONSTRUCTION. PROPERTY OWNERS SHALL HAVE ACCESS TO PROPERTY AT ALL TIMES DURING CONSTRUCTION.
  12. SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS DURING CONSTRUCTION.
  13. FENCING MAY BE REMOVED FOR CONSTRUCTION PURPOSES ONLY. FENCES SHALL BE REINSTALLED IN THEIR ORIGINAL POSITIONS AND IN AS GOOD OR BETTER CONDITION AS

14. CONTRACTOR SHALL COORDINATE IN ADVANCE AND DURING CONSTRUCTION OPERATIONS WITH THE OWNER OF ANY FIBER OPTIC COMMUNICATIONS CABLES IN THE AREAS WHERE THESE UTILITIES MAY EXIST.
15. TRAFFIC CONTROL SHALL BE MAINTAINED PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," LATEST EDITION.

A NEW ADDITION AT BREWER HIGH SCHOOL  
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Nathan S. Johnson

SHEET TITLE : UTILITY PLAN  
JOB NO. : JA 1948EN  
DRAWN BY : RG  
ISSUE DATE : 7-01-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : C6.0

**GENERAL NOTES**

- CONTRACTOR IS RESPONSIBLE FOR MAKING APPLICATION AND PAYING FOR NECESSARY PERMITS.
- THE CONTRACTOR IS TO PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS AND ALL OTHER SURVEY POINTS WHERE THE REMOVAL OF SUCH POINTS IS NECESSARY FOR THE ACCOMPLISHMENT OF THE WORK. THE CONTRACTOR IS TO INFORM THE ENGINEER IN WRITING, PRIOR TO THE DISTURBANCE OF ANY POINT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN ISSUED BY THE ENGINEER.
- ALL EXISTING TREES OUTSIDE OF THE LIMITS OF WORK ARE TO BE PROTECTED DURING THE ACCOMPLISHMENT OF THE WORK, AND ARE NOT TO BE DAMAGED IN ANY MANNER.
- CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING STREETS OR DRIVEWAYS THAT IS CREATED DURING CONSTRUCTION ACTIVITIES.
- ALL BOULDERS, DEBRIS, EXCESS CONSTRUCTION MATERIALS, MATERIAL GENERATED FROM DEMOLITION OF EXISTING STRUCTURES AND FACILITIES OR TRASH TO BE REMOVED FROM SITE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO EXCAVATION. JOHNSON & ASSOCIATES ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF UTILITIES DEPICTED ON THESE DRAWINGS.
- ALL STORM DRAINAGE PIPES SHALL BE HDPE PIPE PER ASTM F2648 OR REINFORCED CONCRETE CLASS III PER ASTM C-76 UNLESS OTHERWISE NOTED. PIPE BEDDING SHALL BE CLASS "C" TRENCH BEDDING EXCEPT AS NOTED. COMPACTED GRANULAR MATERIAL FOR BEDDING MAY BE REQUIRED BASED ON UNSUITABLE GROUND WATER CONDITIONS OR CONDITIONS SUCH THAT SHAPED TRENCH BOTTOM CANNOT BE PROPERLY OBTAINED BY THE CONTRACTOR.
- PAVEMENT CUTS SHALL BE REPAIRED WITH MATERIAL IN KIND TO THAT REMOVED.
- RIP RAP SHALL BE CLASS I, IN ACCORDANCE WITH SECTION B14, ALDOT, AND SHALL BE GROUTED WHERE INDICATED ON THE PLANS.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL DEVICES AND SAFETY MEASURES FOR CONSTRUCTION WORK WITHIN PUBLIC AND/OR PRIVATE RIGHT-OF-WAYS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- THE STORM DRAINAGE SYSTEM FOR THIS SITE HAS BEEN DESIGNED FOR A 25 YEAR STORM EVENT FOR DITCH DESIGNS AND A 10 YEAR STORM EVENT FOR PIPE DESIGNS, UNLESS OTHERWISE NOTED, IN ACCORDANCE WITH THE STANDARDS OF MORGAN COUNTY WITH REGARD TO THE SYSTEM CAPACITY. NO WARRANTY IS EXPRESSED OR IMPLIED FOR STORMS OF GREATER INTENSITY.
- THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF JOHNSON & ASSOCIATES, INC., AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JOHNSON & ASSOCIATES, INC.

**EARTHWORK GENERAL NOTES**

- REFER TO THE GEO-TECHNICAL ENGINEER'S REPORT FOR SITE RECOMMENDATIONS FOR UNDERCUT, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL IN PAVEMENT AREAS AND BUILDING FOUNDATION AREAS.
- SITE TOPOGRAPHY MAPS AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL INVESTIGATIONS AS REQUIRED TO ACQUAINT HIMSELF ADEQUATELY WITH THE SITE TOPOGRAPHY, AND THE SUBSURFACE SOIL CONDITIONS FOR PREPARATION OF HIS BID, AND FOR THE SUCCESSFUL EXECUTION OF THE WORK.
- ALL PROPOSED CONTOUR ELEVATIONS SHOWN ARE FINISH GRADE.
- PROTECTION OF WORK: THE CONTRACTOR IS TO BE SOLELY RESPONSIBLE FOR THE PROTECTION OF HIS WORK. SUCH GRADING IS THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM NECESSARY GRADING AND DRAINAGE TO PREVENT SURFACE RUN OFF FROM DAMAGING THE WORK.
- CONTRACTOR SHALL BE REQUIRED TO INSTALL SILT FENCES, MATS, ETC., TO PREVENT EROSION OF DISTURBED EARTH AND FILL AREAS. SILT FENCES SHALL BE REQUIRED, IF NECESSARY TO PREVENT LOOSE DIRT FROM WASHING ONTO STREETS AND ADJACENT PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL UNTIL FINAL INSPECTION BY CITY.
- ALL EARTH FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE (ASTM-D698), EXCEPT FOR EARTH FILLS UNDER ROADS & BUILDINGS WHICH ARE TO COMPLY WITH PAVING SPECIFICATIONS (VERIFY WITH GEOTECHNICAL REPORT).
- EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 8" LOOSE THICKNESS, PER (VERIFY WITH GEOTECHNICAL REPORT).
- EARTH FILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 210, ALDOT. EARTH FILL UNDER THE BUILDING SHALL ALSO MEET THE REQUIREMENTS OF THE ARCHITECT'S PLANS AND SPECIFICATIONS. (VERIFY WITH GEOTECHNICAL REPORT)

**REINFORCED CONCRETE NOTES**

- ALL CONCRETE SHALL BE AIR ENTRAINED 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, CLASS "A" UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH SHEAR KEYS IN ACCORDANCE WITH THE SHEAR KEY DETAIL LOCATED ON SHEET C7.0.
- ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED, AND SHALL CONFORM TO ASTM A615, FOR BILLET STEEL.
- LAP SPLICES AND BAR EMBEDMENTS SHALL BE IN ACCORDANCE WITH THE TABLE ON SHEET C7.0.
- CONCRETE AIR CONTENT AND SLUMP SHALL BE IN ACCORDANCE WITH THE TABLE ON SHEET C7.0.
- ALL REINFORCING BARS SHALL BE SHOP BENT IN ACCORDANCE WITH THE TABLE ON SHEET C7.0.
- HEATING OF REINFORCING BARS TO BEND THEM, OR STRAIGHTEN THEM WILL NOT BE ALLOWED.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, SMOOTH FABRIC WITH AN ASTM YIELD STRENGTH OF 65,000 PSI.

**PAVEMENT CONSTRUCTION GENERAL NOTES**

- ALDOT, SHALL MEAN STATE OF ALABAMA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
- CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL BE PLACED IN ACCORDANCE WITH SECTION 301 ALDOT. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 825, TYPE B, 100% COMPACTION.
- PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 450, ALDOT.
- BITUMINOUS TACK COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 405, ALDOT. TACK COAT SHALL BE NTS-1HM.
- BITUMINOUS CONCRETE WEARING SURFACE LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424, ALDOT. USE ALDOT 424A-340.
- THE SITE SHALL BE CLEARED AND ALL UNSUITABLE MATERIAL REMOVED PRIOR TO PLACING AND COMPACTING EMBANKMENTS.
- ALL SUBGRADES SHALL BE CLEARED AND GRUBBED, SCARIFIED TO A DEPTH OF 6", AND THEN RECOMPACTED TO 100% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE, ASTM-D698.
- IN ROOF EXCAVATION A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROOF PRIOR TO PLACEMENT OF BASE MATERIAL.
- ALL WORK INSIDE THE ALDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH ALDOT SPECIFICATIONS AND REQUIREMENTS.

**SEEDING NOTES**

SEEDING & SOD SPECIFICATIONS SHOWN ON LANDSCAPE PLAN SHALL TAKE PRECEDENCE IF THERE ARE ANY CONFLICTS WITH THE SEEDING NOTES SHOWN BELOW.

CONTRACTOR IS REQUIRED TO FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR THE SEEDING OF AREAS SPECIFIED ON THE GRADING PLANS. ALL SPECIFIED SURFACE AREAS SHALL BE SEEDING ACCORDING TO THE SPECIFICATIONS LISTED BELOW.

- TOPSOIL SHALL BE STRIPPED AND STOCK PILED. A MINIMUM OF 12 INCHES OF CONDITIONED AND AMENDED TOPSOIL SHALL BE RESPREAD OVER ALL AREAS FOR SEED-ING AND CONFORM WITH THE GRADING PLAN.
- SEEDING SHALL BE:
  - "REBEL" OR "FALCON" FESCUE SEED (TILL APRIL 15TH) WITH 95% GERMINATION AND 8 LBS. PER 1,000 S.F.
  - BERMUDA SEED (FROM APRIL 15TH TO AUGUST 15TH) WITH 95% GERMINATION AND 2 LBS. PER 1,000 S.F.
- SOIL AMENDMENT SHALL BE RECOMMENDED USING LIME OR SULFUR TO ACHIEVE A SOIL PH OF 5.5 - 6.5.
- 2-4-D ROUNDUP OR EQUIVALENT POST-EMERGENT HERBICIDE SHALL BE REQUIRED TO KILL EXISTING WEEDS. TRIFLORAL, DACTAL OR EQUIVALENT PRE-EMERGENT HERBICIDE SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION.
- PROTECTION OF SEEDED AREAS ON STEEP SLOPES SHALL BE PROVIDED USING A STANDARD EXCELISOR EROSION CONTROL BLANKET, BY EROSION CONTROL SYSTEMS, INC. TUSCALOOSA, AL, OR EQUIVALENT WHERE INDICATED ON THE GRADING PLAN. APPLICATION OF "EXCELISOR" BLANKET SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. APPLY BLANKET TO THE SLOPE AFTER PROPER PREPARATION AND SEEDING OF GROUND.

**SHEAR KEY DETAIL**

WALL THICKNESS (D)	NOMINAL KEY SIZE	X	Y	Z
4" - 7"	2" X 2"	1 1/2"	1"	1 1/2"
8" - 13"	2" X 4"	3 1/2"	3"	1 1/2"
14" - 20"	2" X 6"	5 1/2"	5"	1 1/2"
	2" X 8"	7 1/4"	6 3/4"	1 1/2"
	2" X 10"	9 1/4"	8 3/4"	1 1/2"
	4" X 4"	3 1/2"	5"	3 1/2"
	4" X 6"	5 1/2"	5"	3 1/2"
	4" X 8"	7 1/4"	6 3/4"	3 1/2"
	4" X 10"	9 1/4"	8 3/4"	3 1/2"
	4" X 12"	11 1/4"	10 3/4"	3 1/2"

**CONCRETE AIR CONTENT TABLE**

NOMINAL MAXIMUM SIZE OF AGGREGATE (INCHES)	TOTAL AIR CONTENT PERCENT BY VOLUME
3/4"	4 TO 8
1"	3.5 TO 6.5
1 1/2"	3 TO 6

**DOWEL BAR SPACING TABLE**

THICKNESS (D)	SHEAR KEY SIZE
4"	2" X 2"
6"	18" O.C.
8"	15" O.C.
12"	12" O.C.
16"	8" O.C.

**BAR BEND TABLE**

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10
DIAMETER (D)	0.375"	0.5"	0.625"	0.75"	0.875"	1.0"	1.125"	1.27"
D	12.25"	3.0"	3.75"	4.50"	5.25"	6.0"	6.75"	7.50"
A	6"	6"	10"	12"	14"	16"	19"	22"
J	3"	4"	5"	6"	7"	8"	11.25"	12.75"

**LAP SPLICE AND MINIMUM BAR EMBEDMENT TABLE**

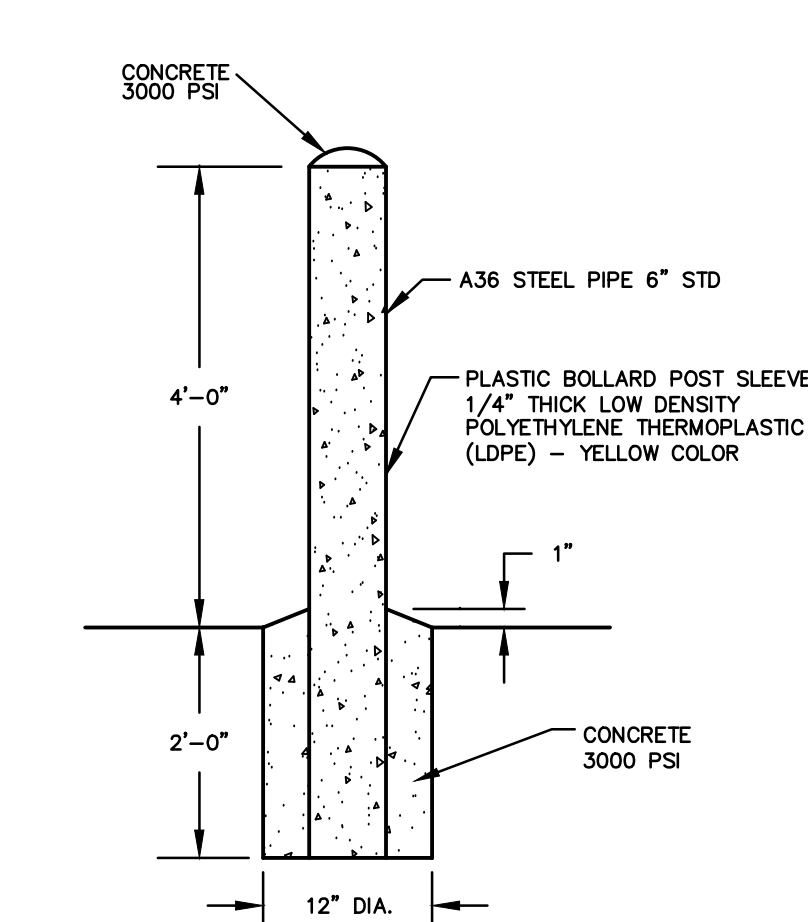
BAR SIZE	LAP LENGTH	EMBEDMENT LENGTH
#4	20"	12"
#5	25"	15"
#6	35"	19"
#7	45"	23"
#8	50"	25"
#9	74"	44"
#10	95"	58"

**SLUMP TABLE**

TYPE OF CONSTRUCTION	SLUMP (INCHES)
REINFORCED FOOTINGS AND SLABS	3 - 1
REINFORCED WALLS	4 - 1
BACKFILL CONCRETE	6 - 3

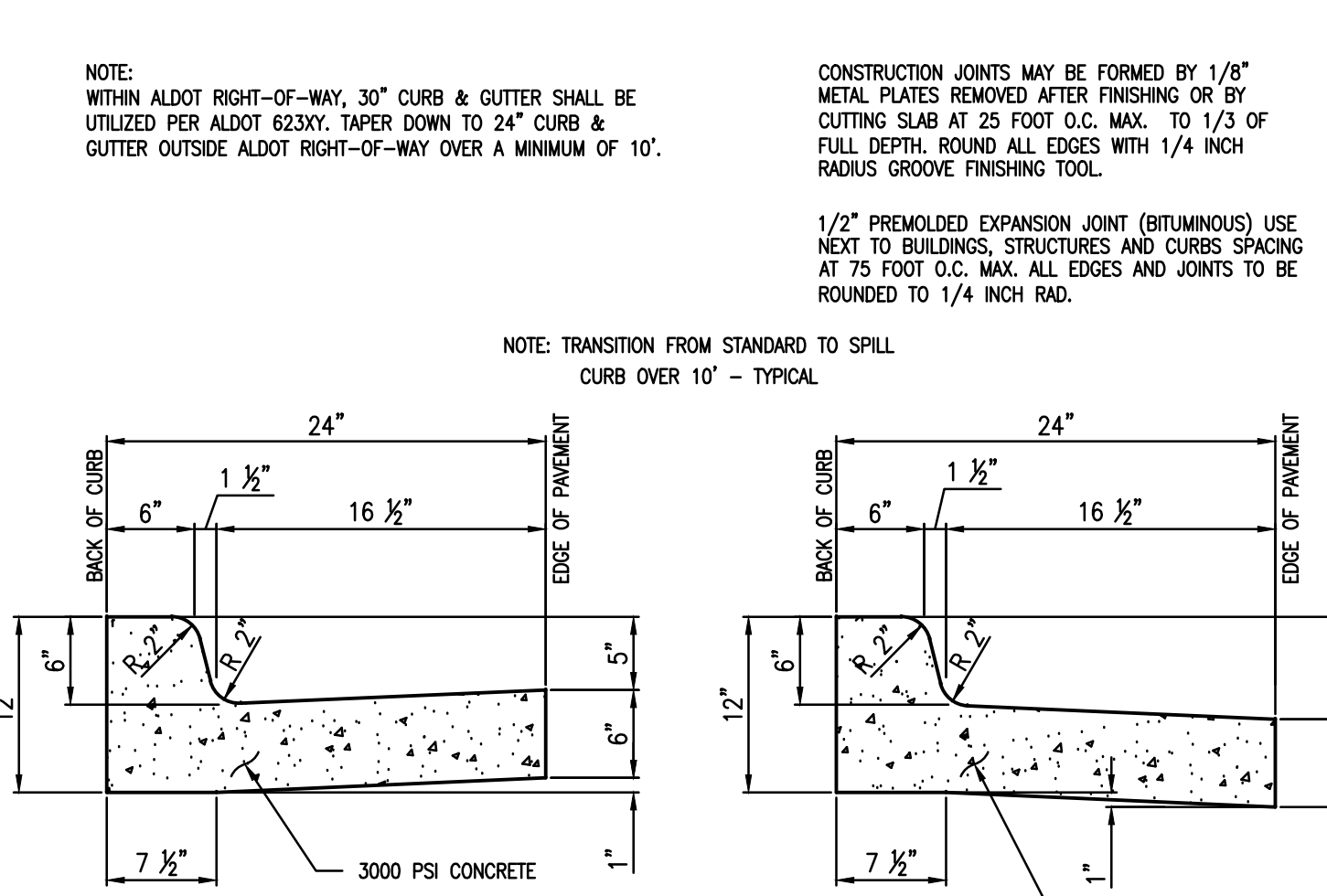
UNLESS OTHERWISE INDICATED SHEAR KEY SIZES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

NOTE: ALL CONSTRUCTION JOINTS SHALL HAVE CONTINUOUS SHEAR KEYS CONSTRUCTED IN ACCORDANCE WITH THE SHEAR KEY DETAIL.

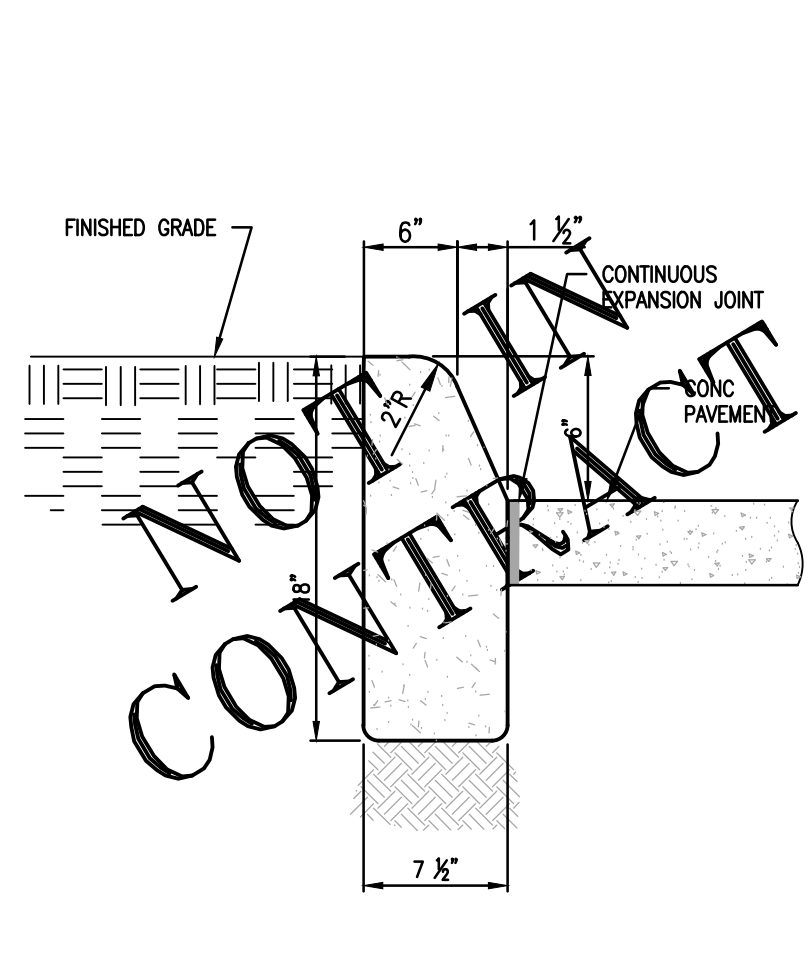


**GENERAL NOTES**  
 ALL CONCRETE SHALL BE 3000 PSI, 28 DAY COMPRESSIVE STRENGTH.  
 REINFORCING: ALL REINFORCEMENT SHALL BE DEFORMED BAR, GRADE 60.

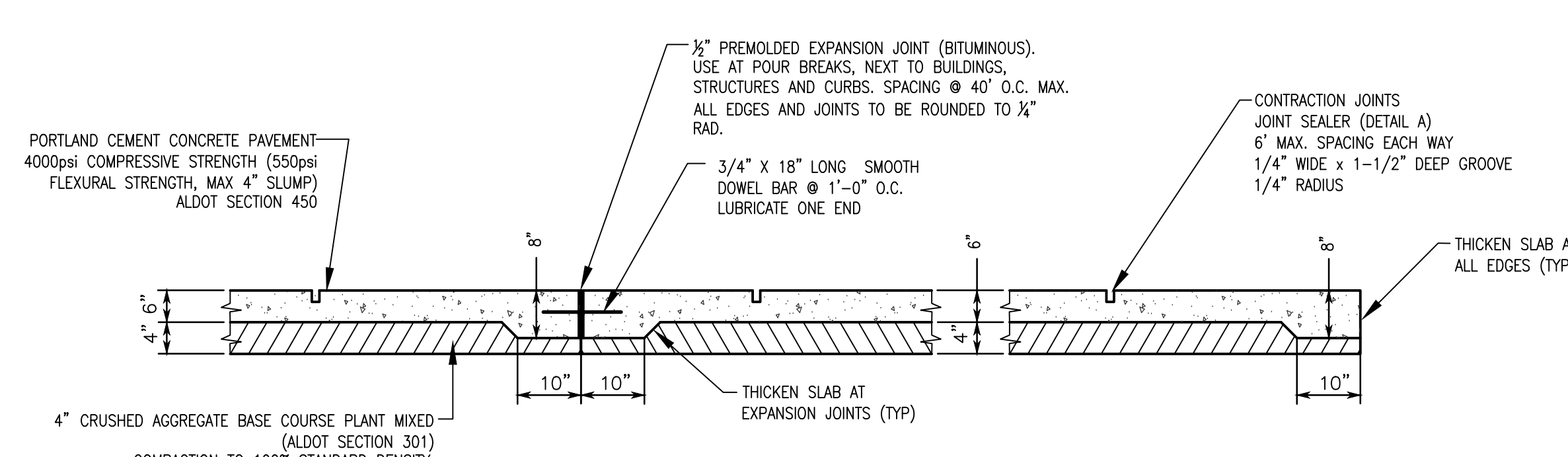
2 ROLL-UP DETAIL  
 7.0 NOT TO SCALE



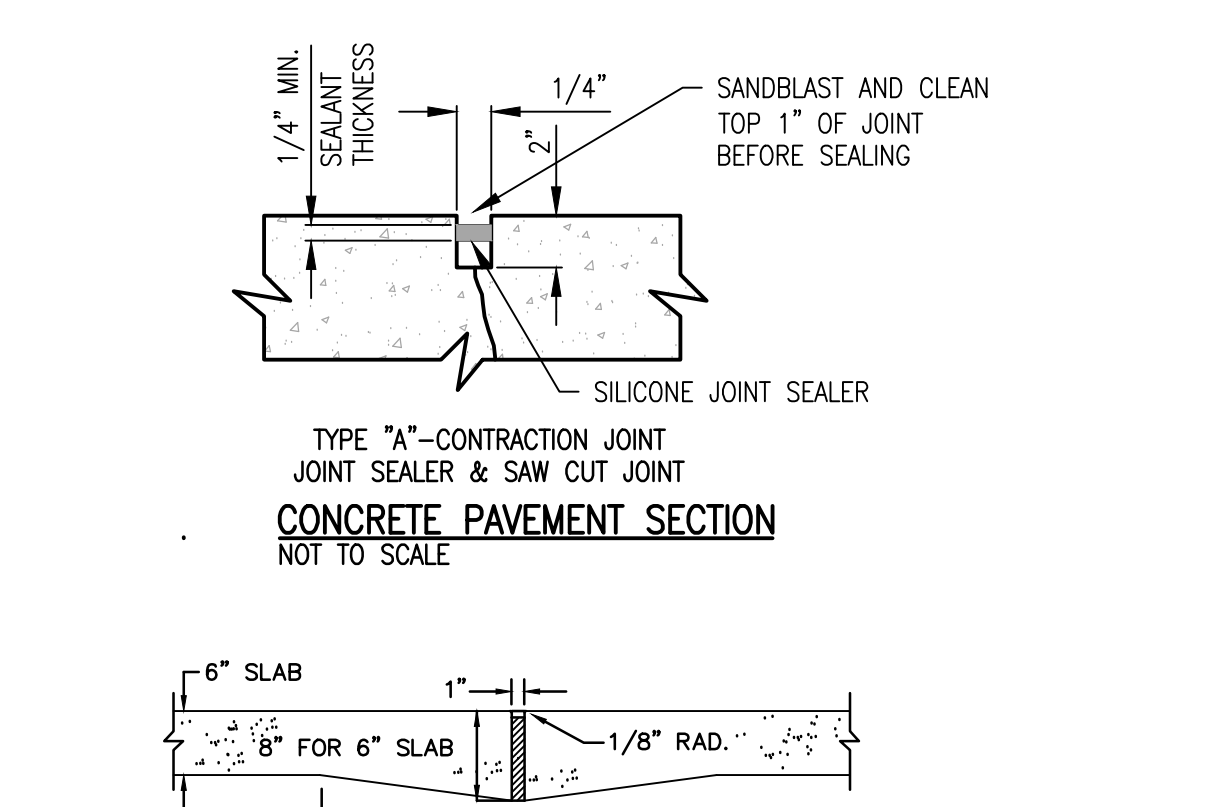
3 24" STANDARD CURB AND GUTTER  
 7.0 NOT TO SCALE



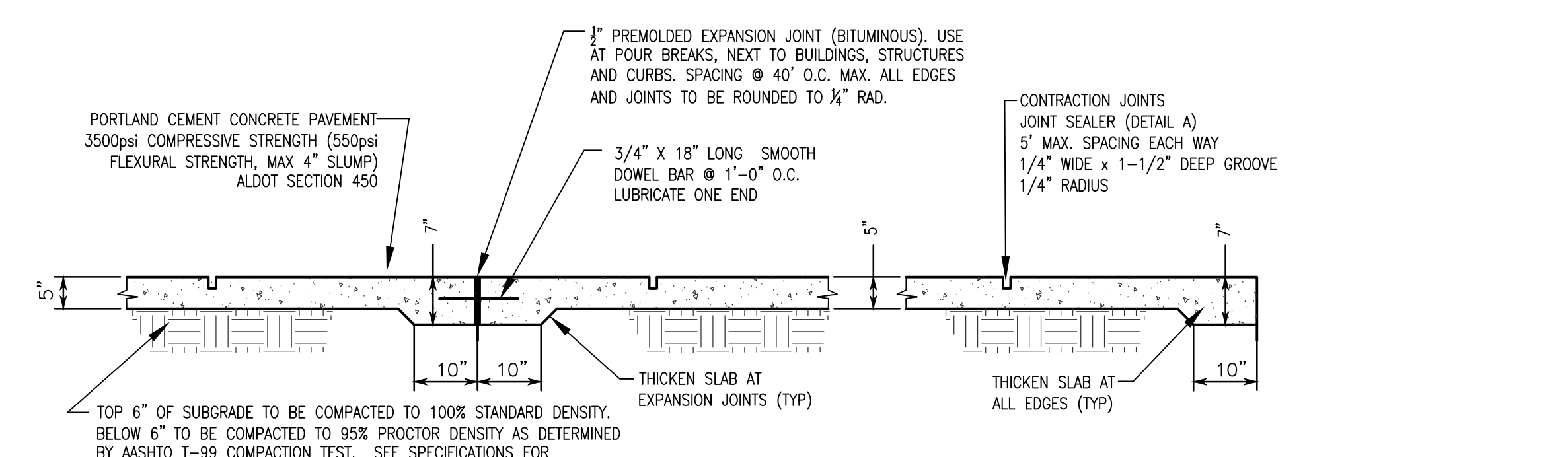
4 24" SPILL CURB AND GUTTER  
 7.0 NOT TO SCALE



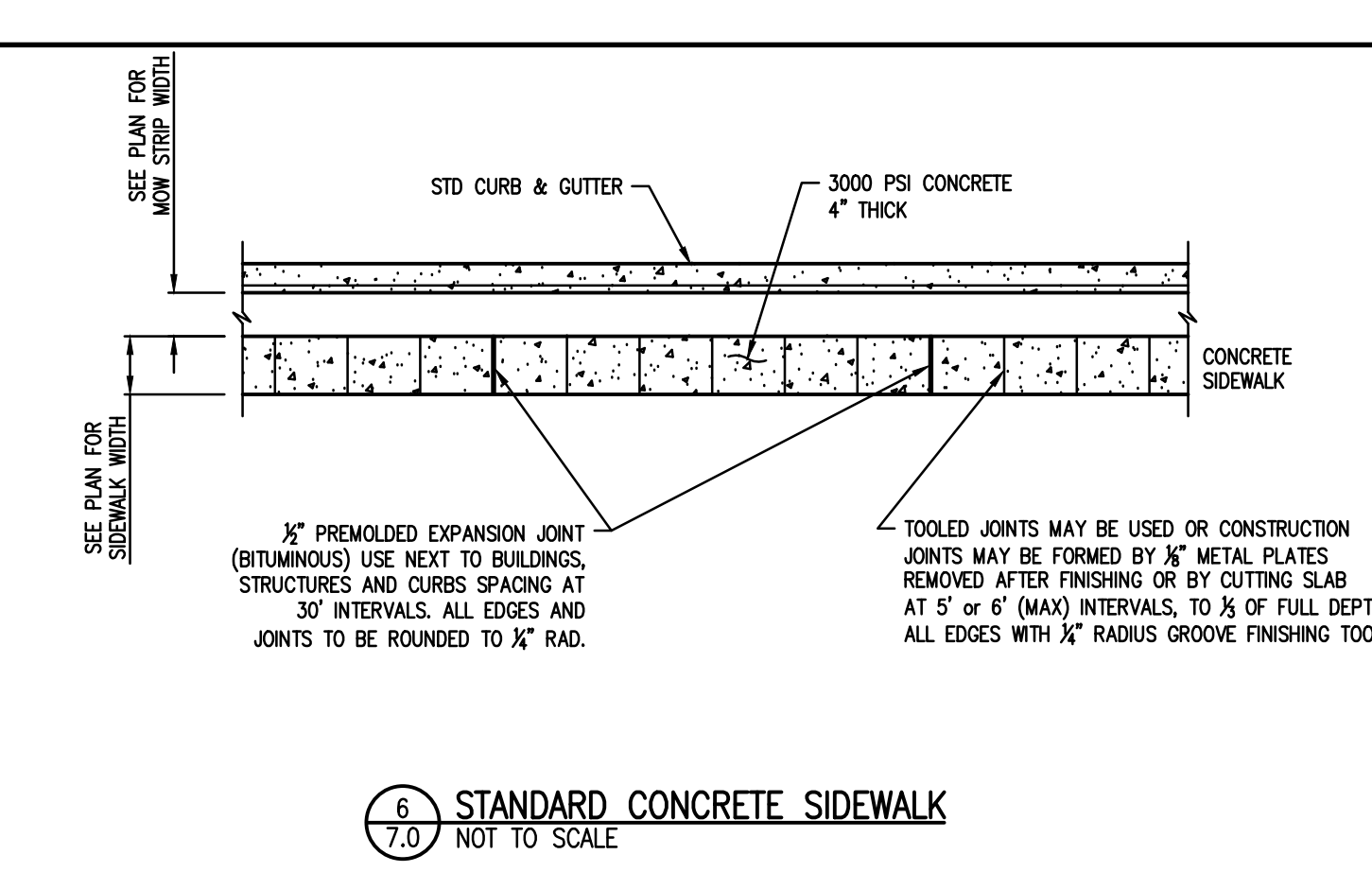
1 HEAVY-DUTY CONCRETE PAVEMENT SECTION  
 7.0 NOT TO SCALE



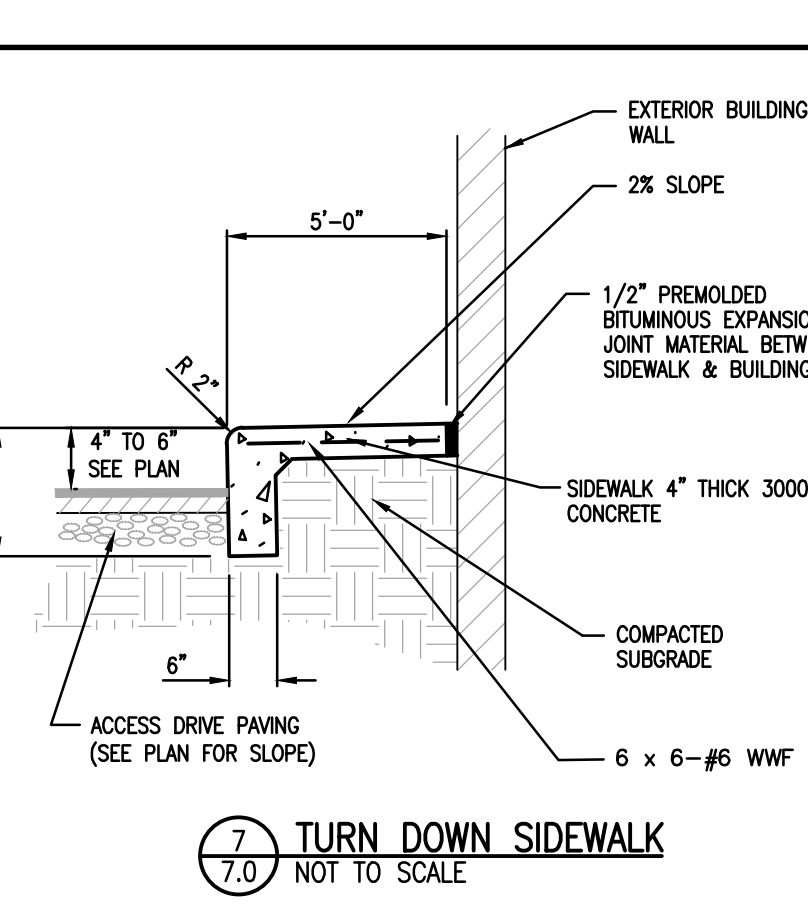
EXPANSION JOINT  
 ALTERNATE EXPANSION JOINT  
 TYPE "A" NOT TO SCALE  
 TYPE "B" NOT TO SCALE  
 TYPE "C" NOT TO SCALE



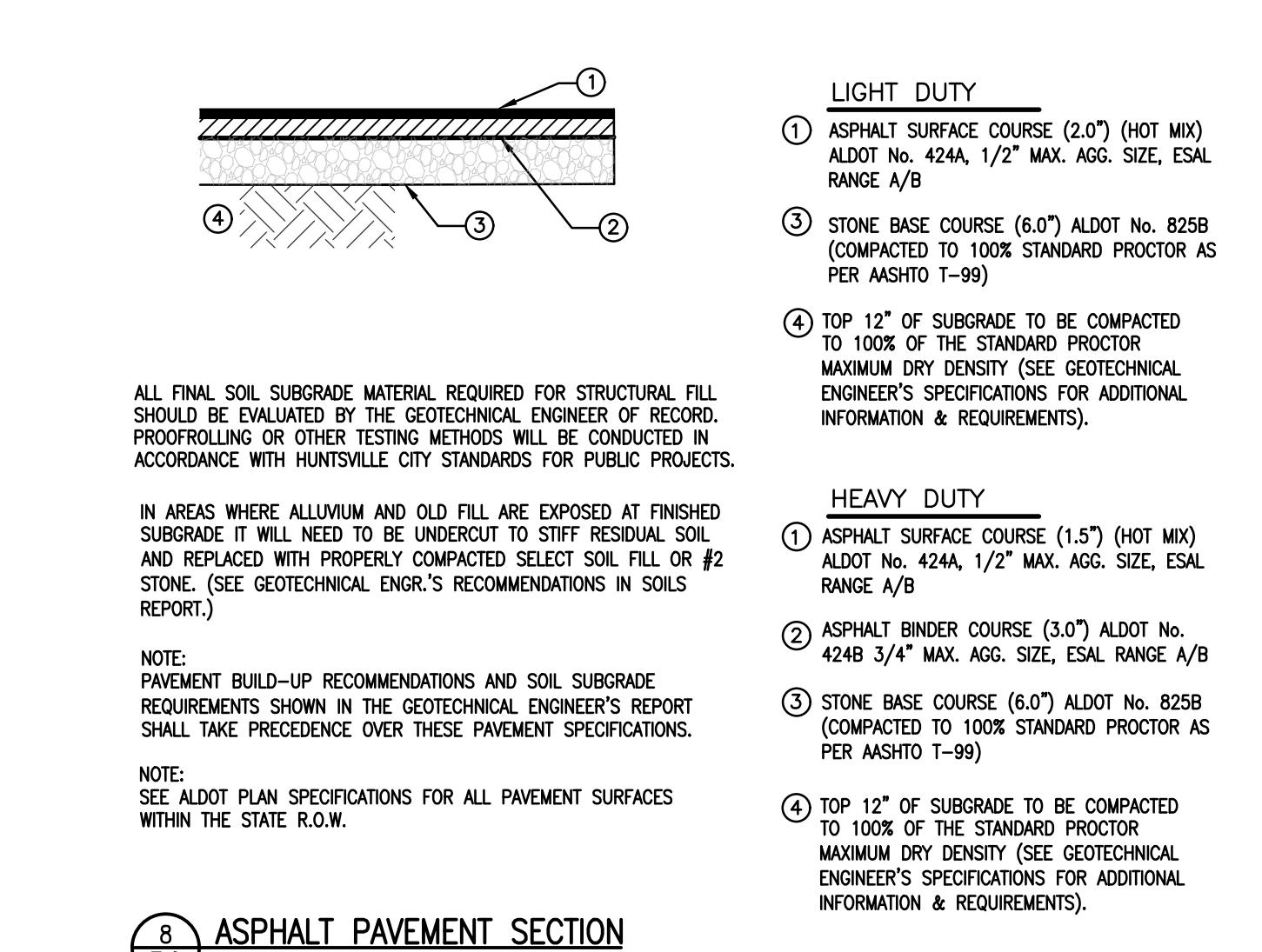
2 LIGHT-DUTY CONCRETE PAVEMENT SECTION  
 7.0 NOT TO SCALE



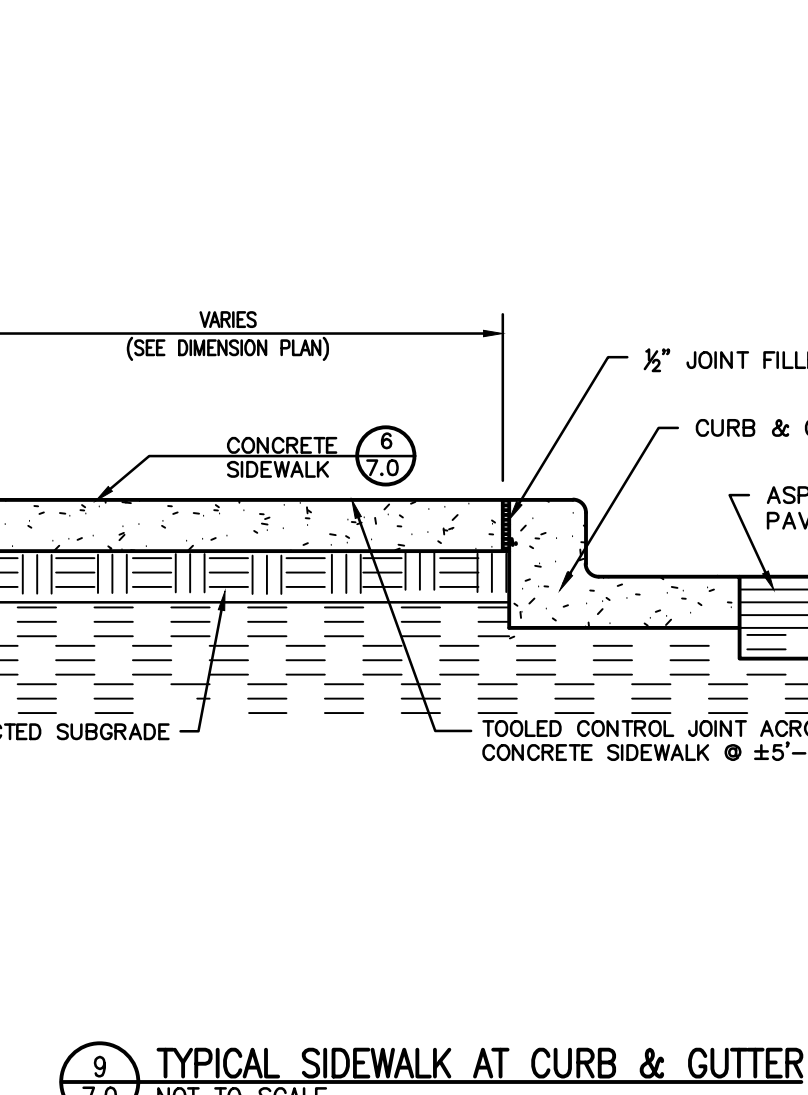
6 STANDARD CONCRETE SIDEWALK  
 7.0 NOT TO SCALE



7 TURN-DOWN SIDEWALK  
 7.0 NOT TO SCALE



8 ASPHALT PAVEMENT SECTION  
 7.0 NOT TO SCALE



9 TYPICAL SIDEWALK AT CURB & GUTTER  
 7.0 NOT TO SCALE

A NEW ADDITION AT BREWER HIGH SCHOOL  
 FOR  
 MORGAN COUNTY BOARD OF EDUCATION

JOHNSON & ASSOCIATES  
 ENGINEERING  
 SURVEYING  
 1000 SOUTH HULL STREET, MONTGOMERY, AL 36104  
 TEL: 205-263-2332  
 FAX: 1-205-233-2332

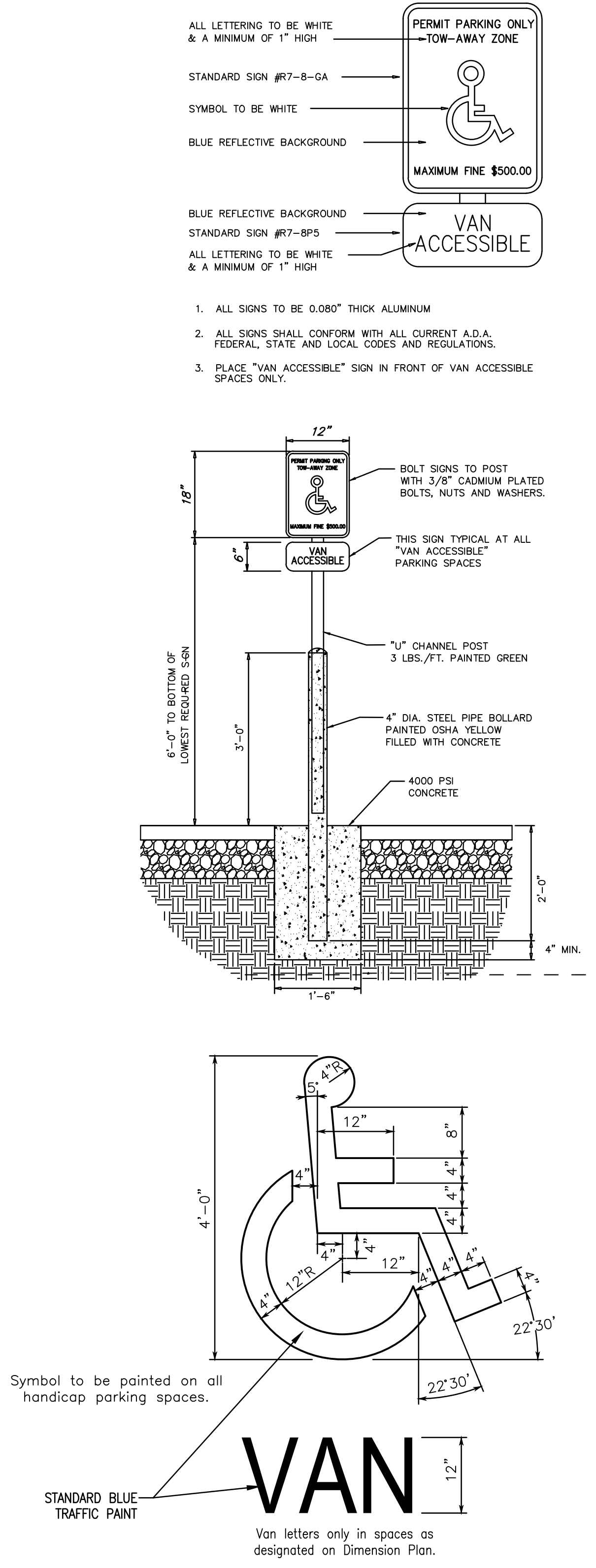
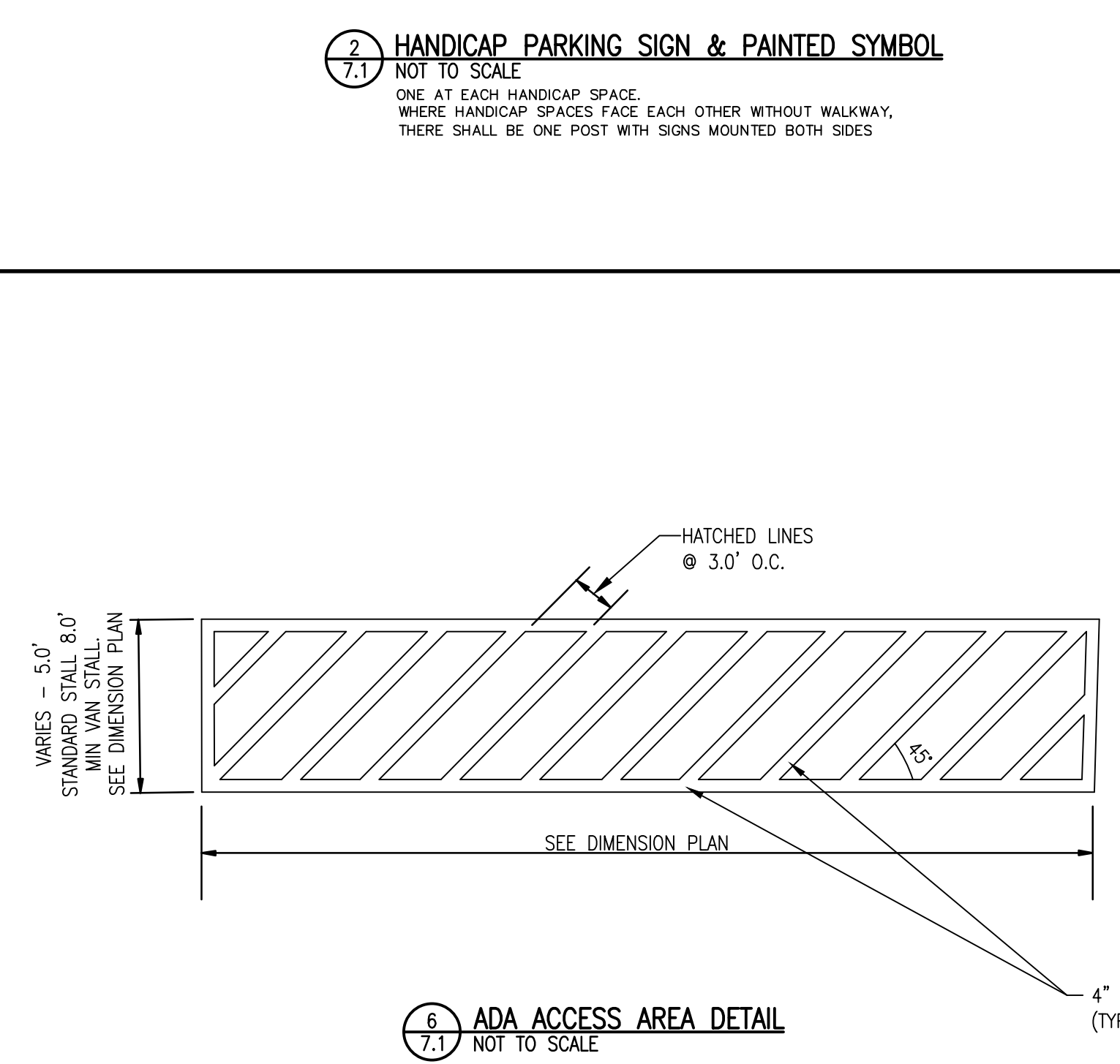
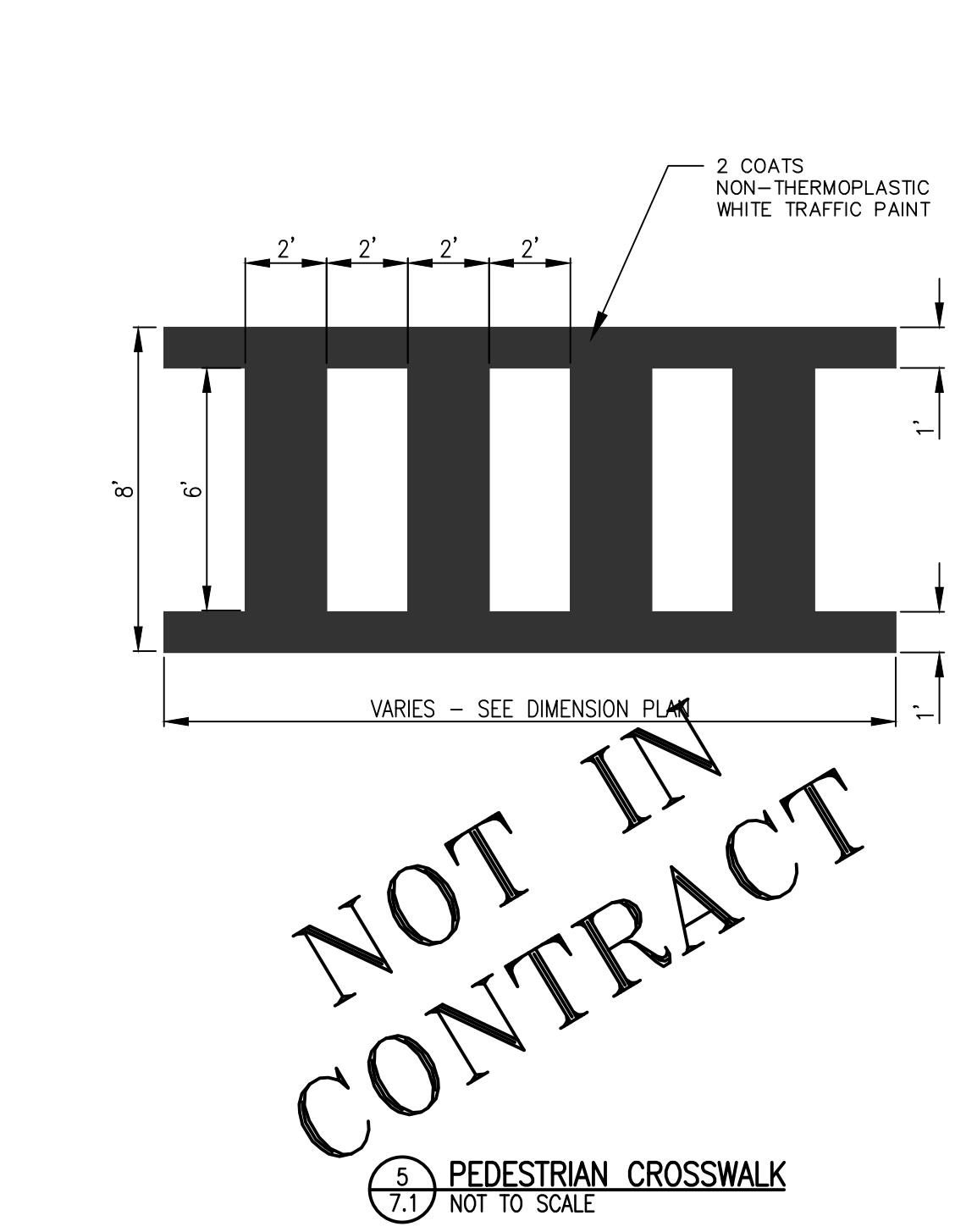
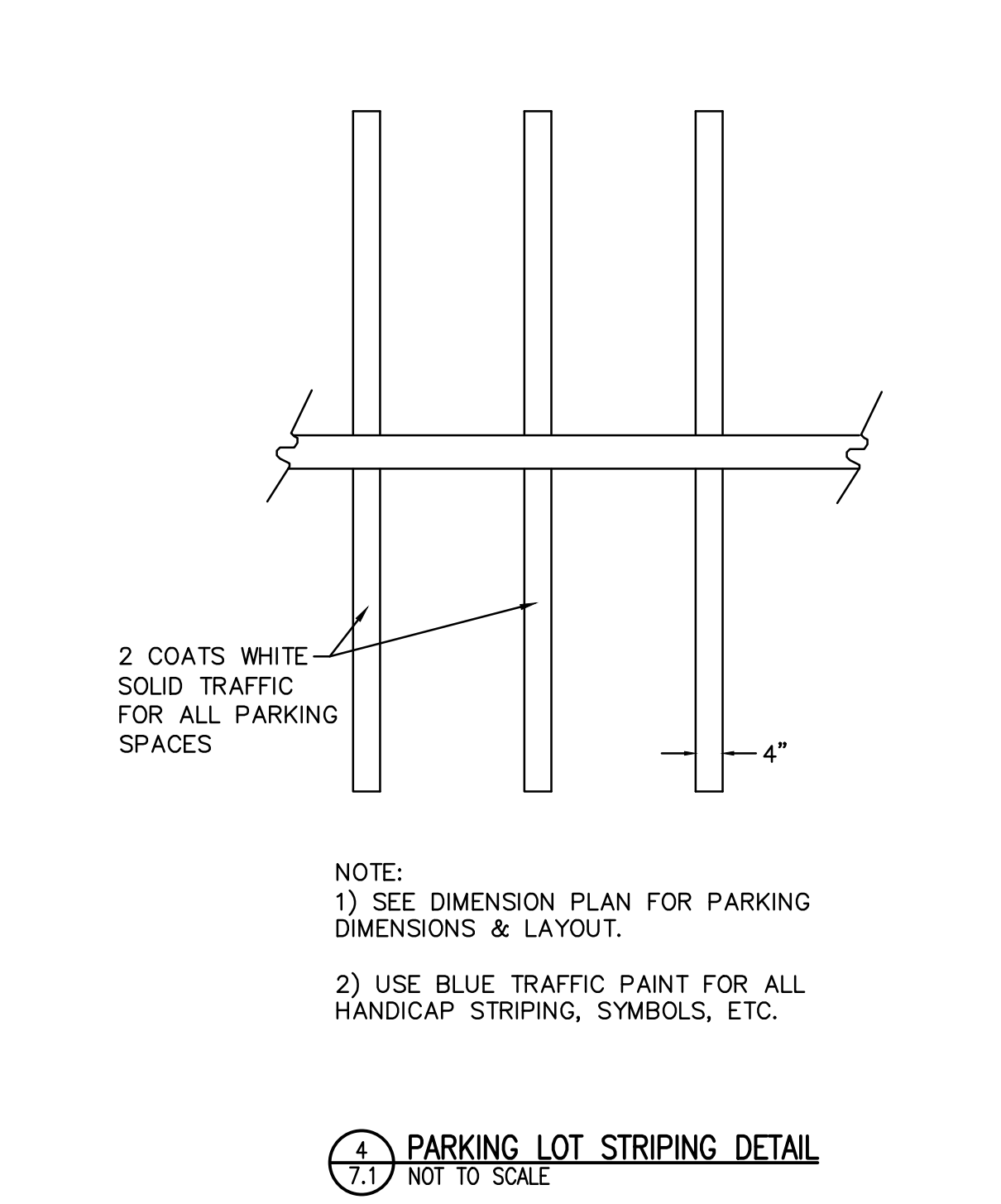
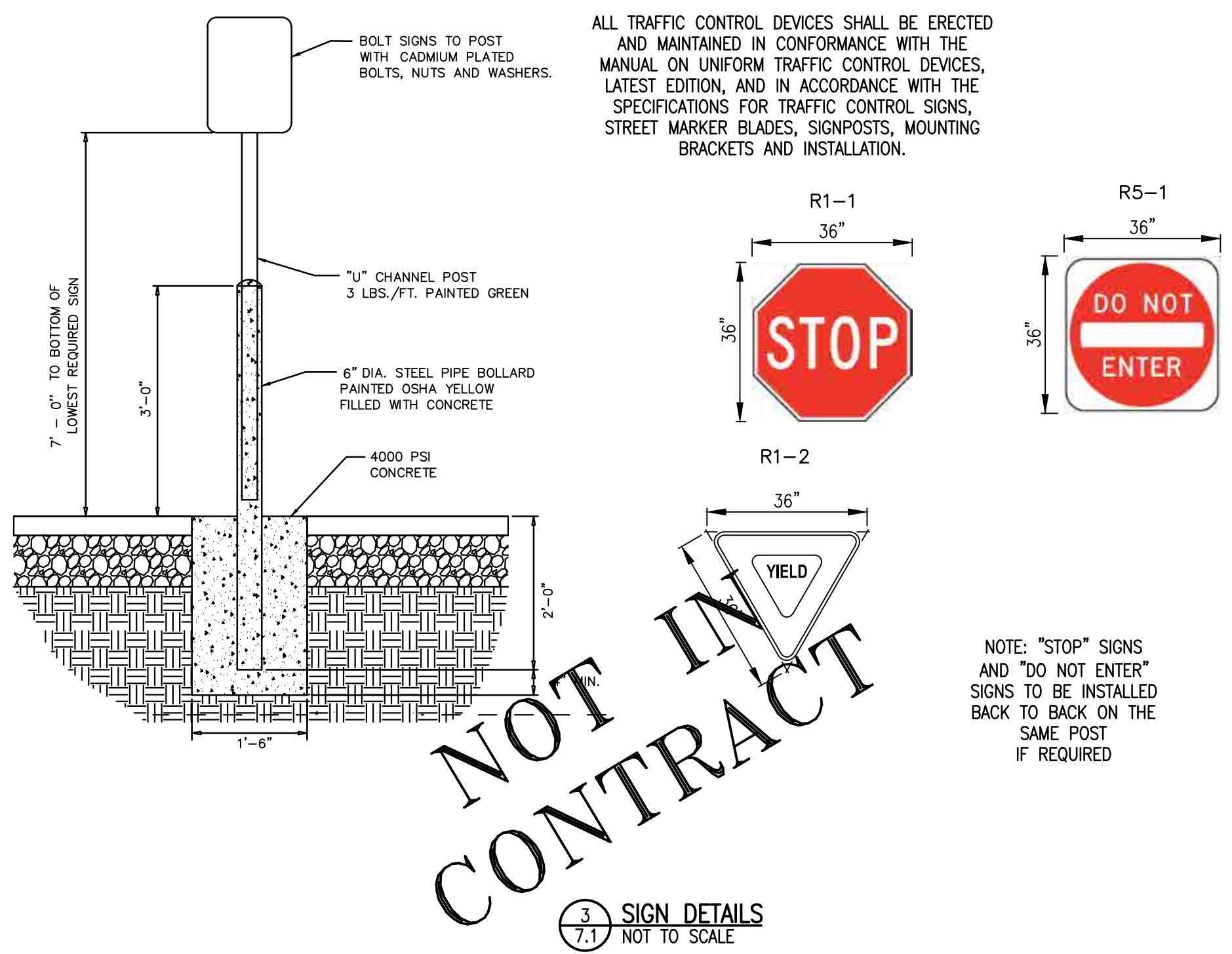
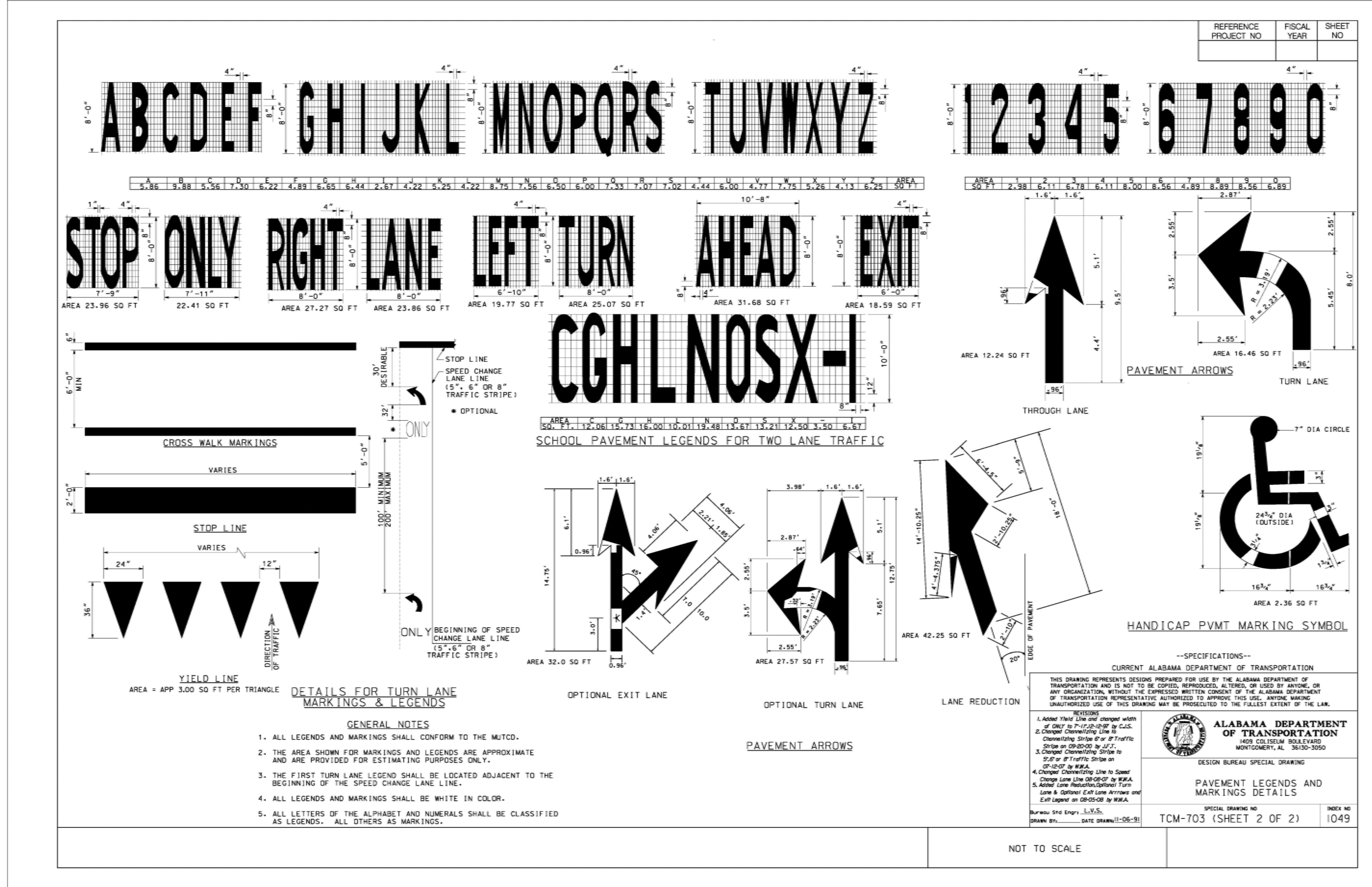
MCKEE and ASSOCIATES  
 ARCHITECTS, INC.  
 631 SOUTH HULL STREET, MONTGOMERY, AL 36104  
 (334) 834-0833

ALABAMA PROFESSIONAL ENGINEER  
 07/01/2022  
 REGISTERED NO. 16950  
 MATHAN S. JOHNSON  
 ENGINEER

CONSTRUCTION DETAILS  
 SHEET TITLE :  
 JOB NO. : JA 1948EN  
 DRAWN BY : RG  
 ISSUE DATE : 7-01-2022  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : C7.0



FILE PATH: T:\Sub\1948EN\_Brewer HS Addition for McKee Architects\Chil 3D Design\Production Drawings\1948EN\_C700\_CONSTRUCTION DETAILS DWG.PLOT DATE: 7/6/2022 2:26 PM



A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

**McKee and ASSOCIATES**  
ARCHITECTS, INC.

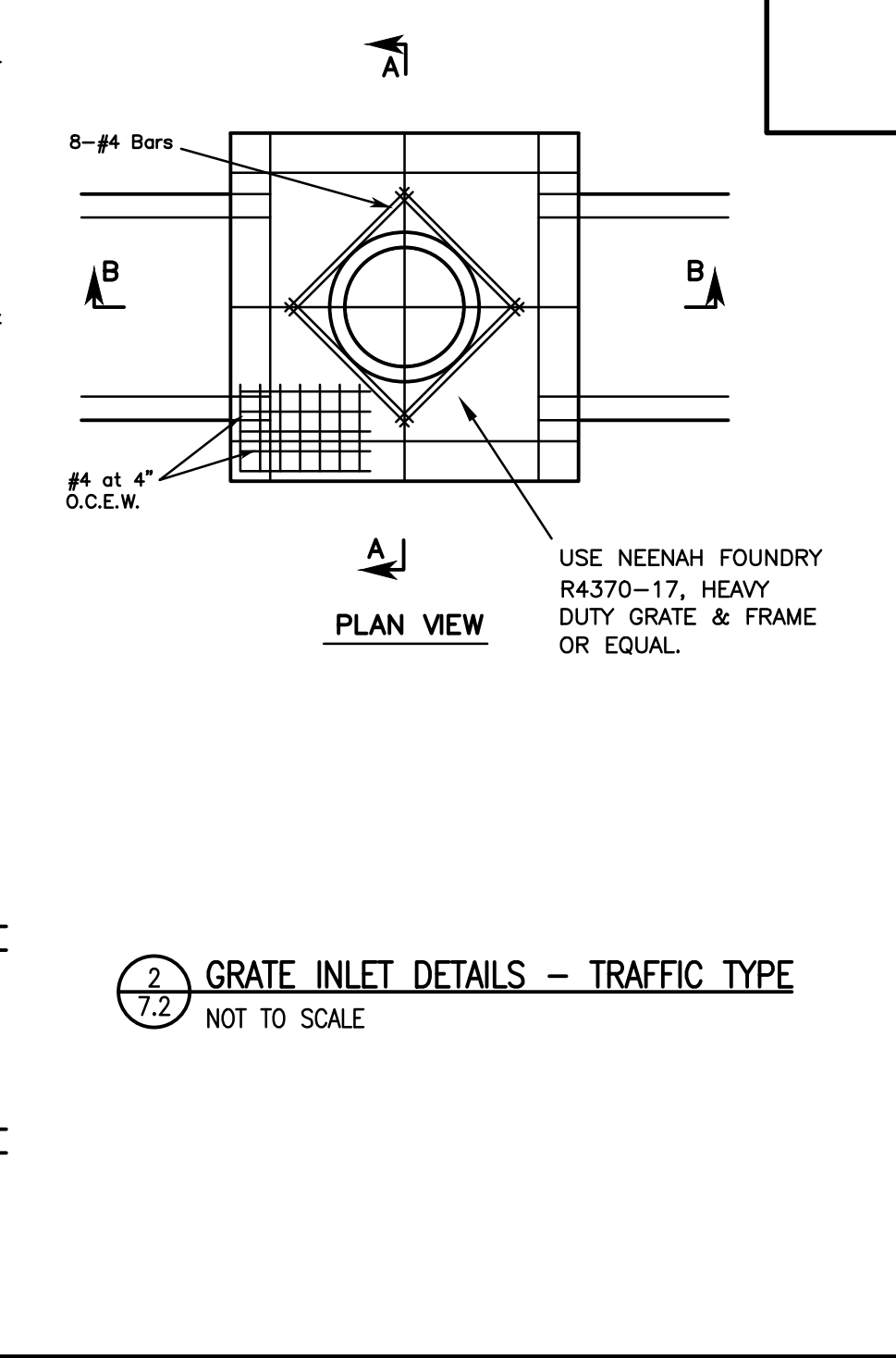
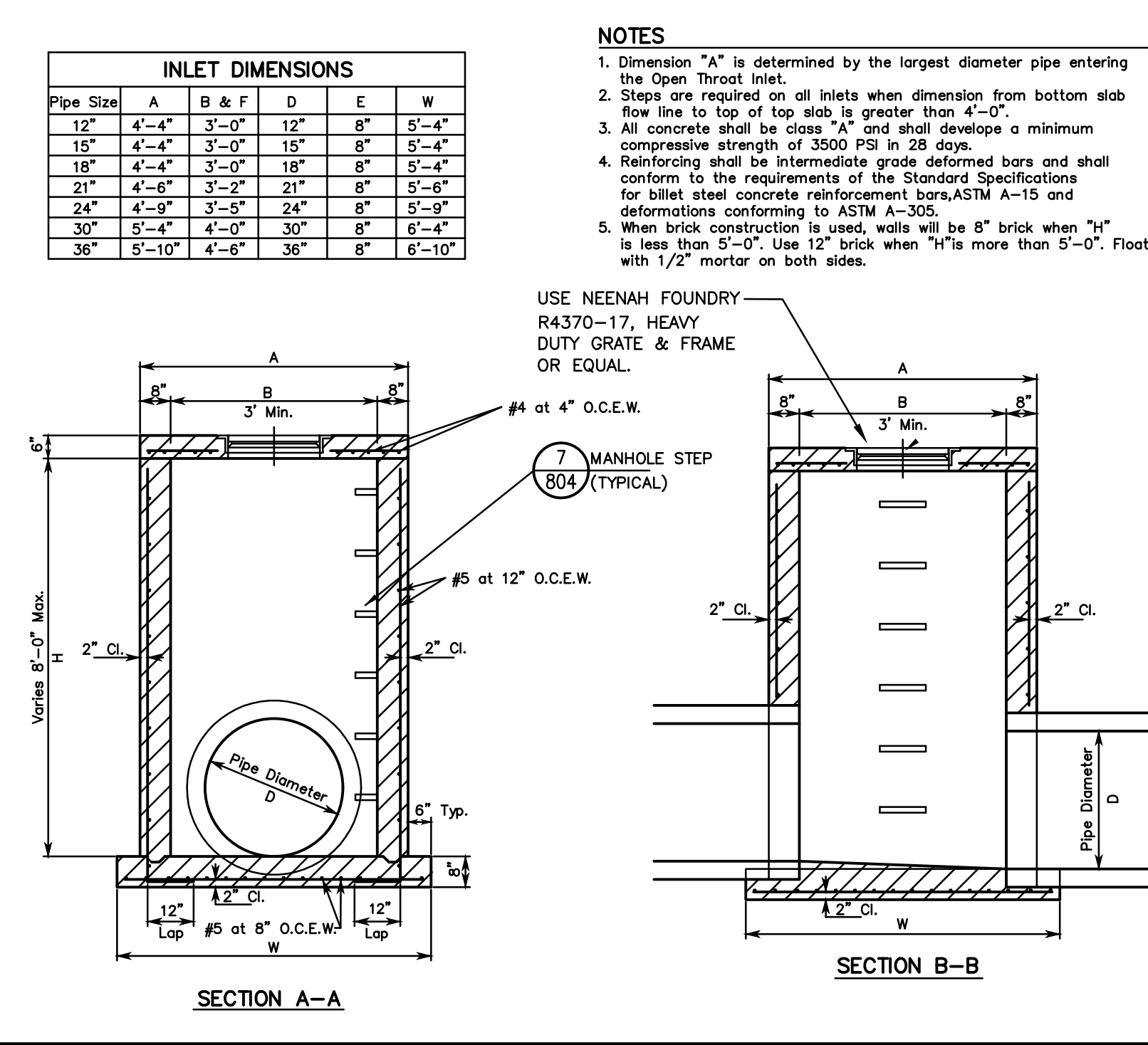
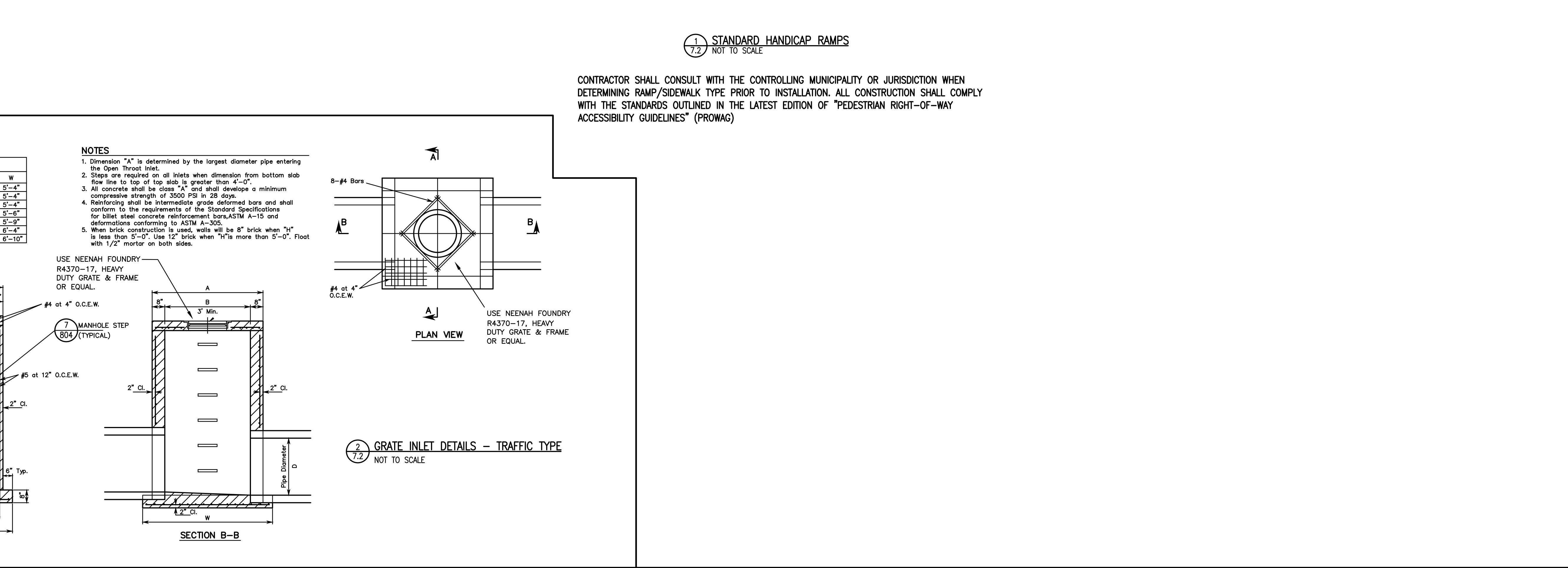
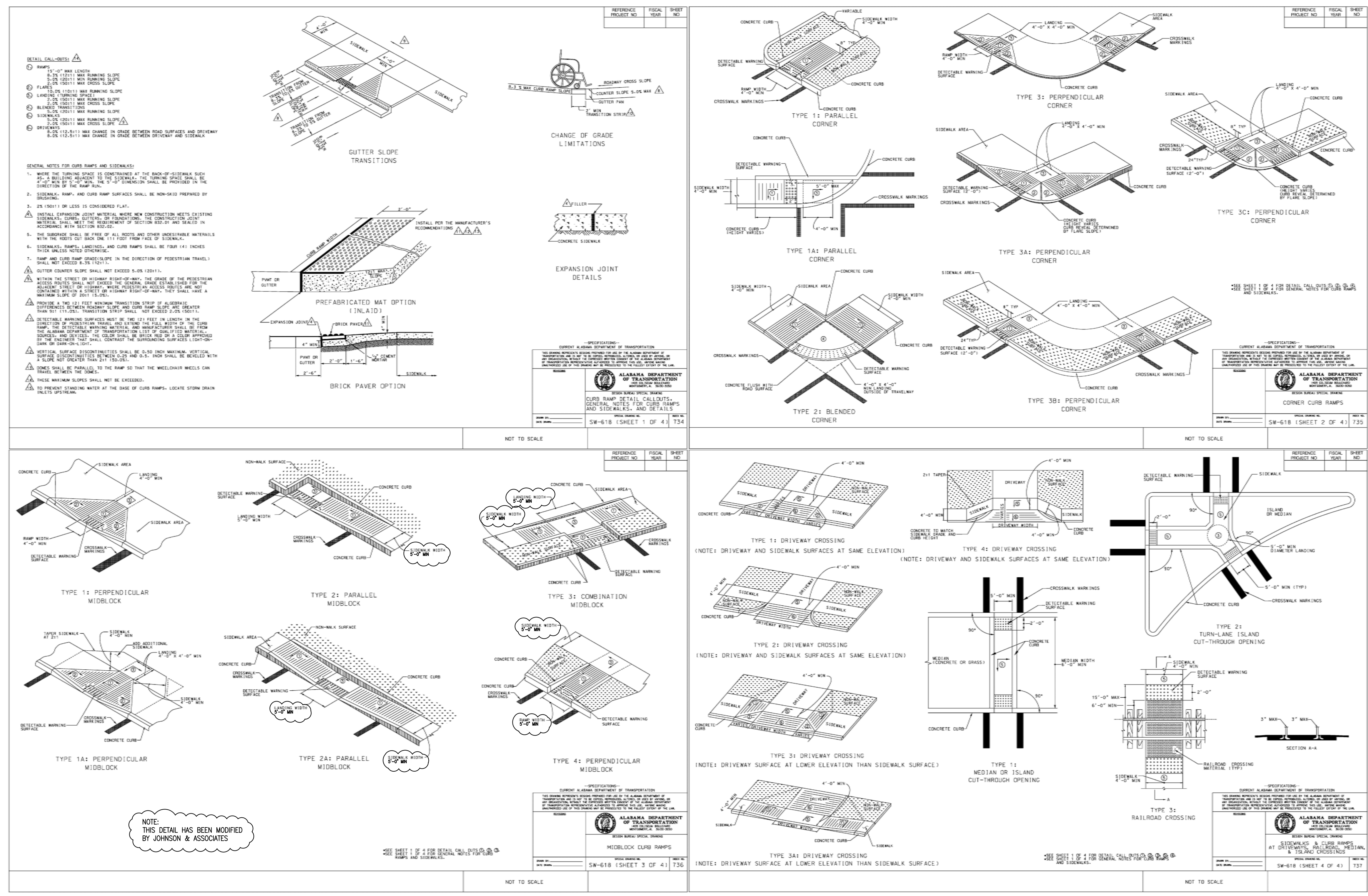
**JOHNSON & ASSOCIATES**  
ENGINEERING SURVEYING

ALABAMA PROFESSIONAL ENGINEER  
07/01/2022  
REGISTERED NO. 16890  
NATHAN S. JOHNSON

SHEET TITLE : CONSTRUCTION DETAILS  
JOB NO. : JA 1948EN  
DRAWN BY : RG  
ISSUE DATE : 7-01-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :  
SHEET NO. : C7.1

631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833

FILE PATH: T:\Submittal\Brewer HS Addition for McKee Architects\Chal 3D Design\Production Drawings\Brewer\_HS\_Construction\_Details.dwg PLOT DATE: 7/6/2022 7:27 PM

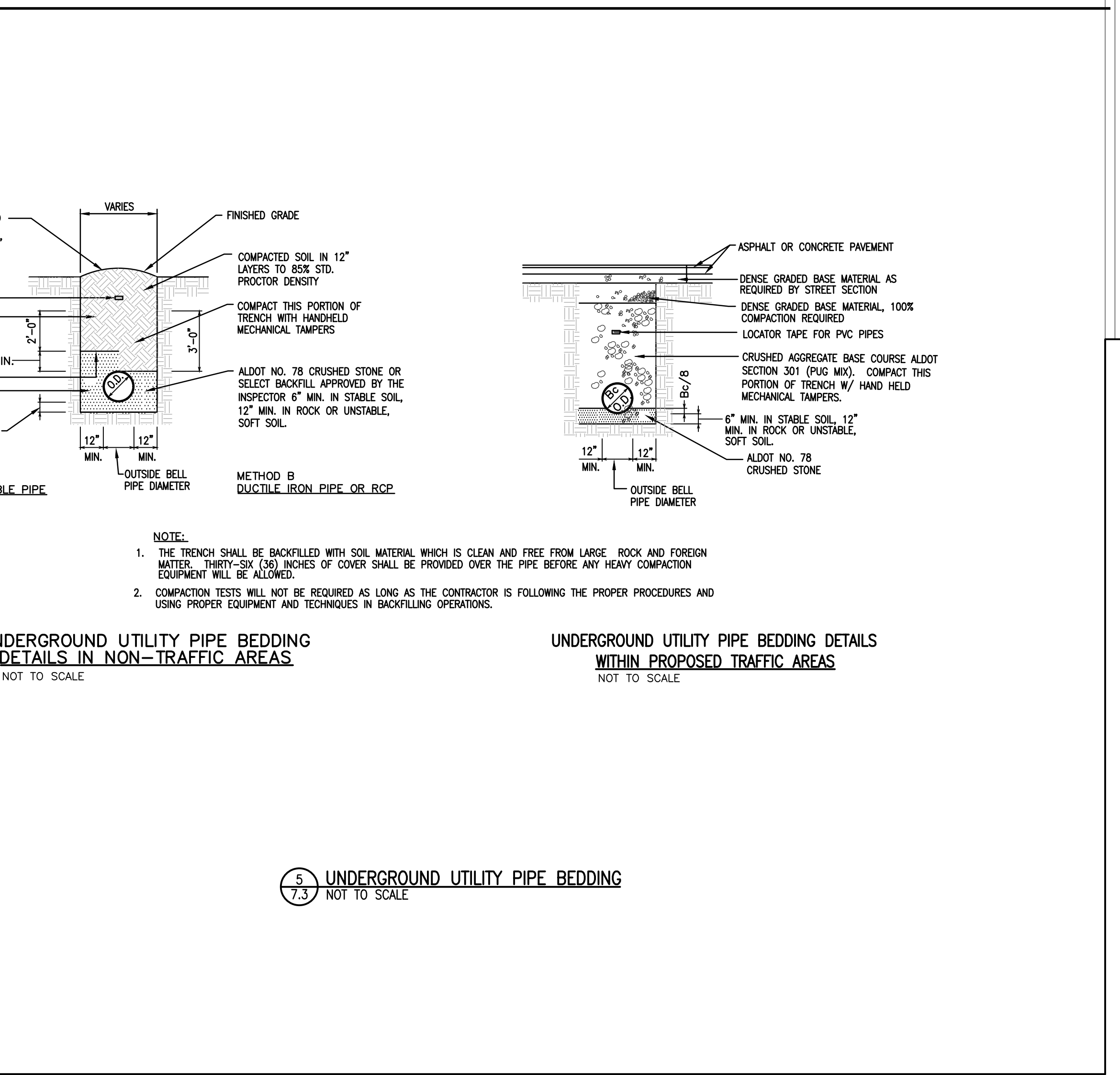
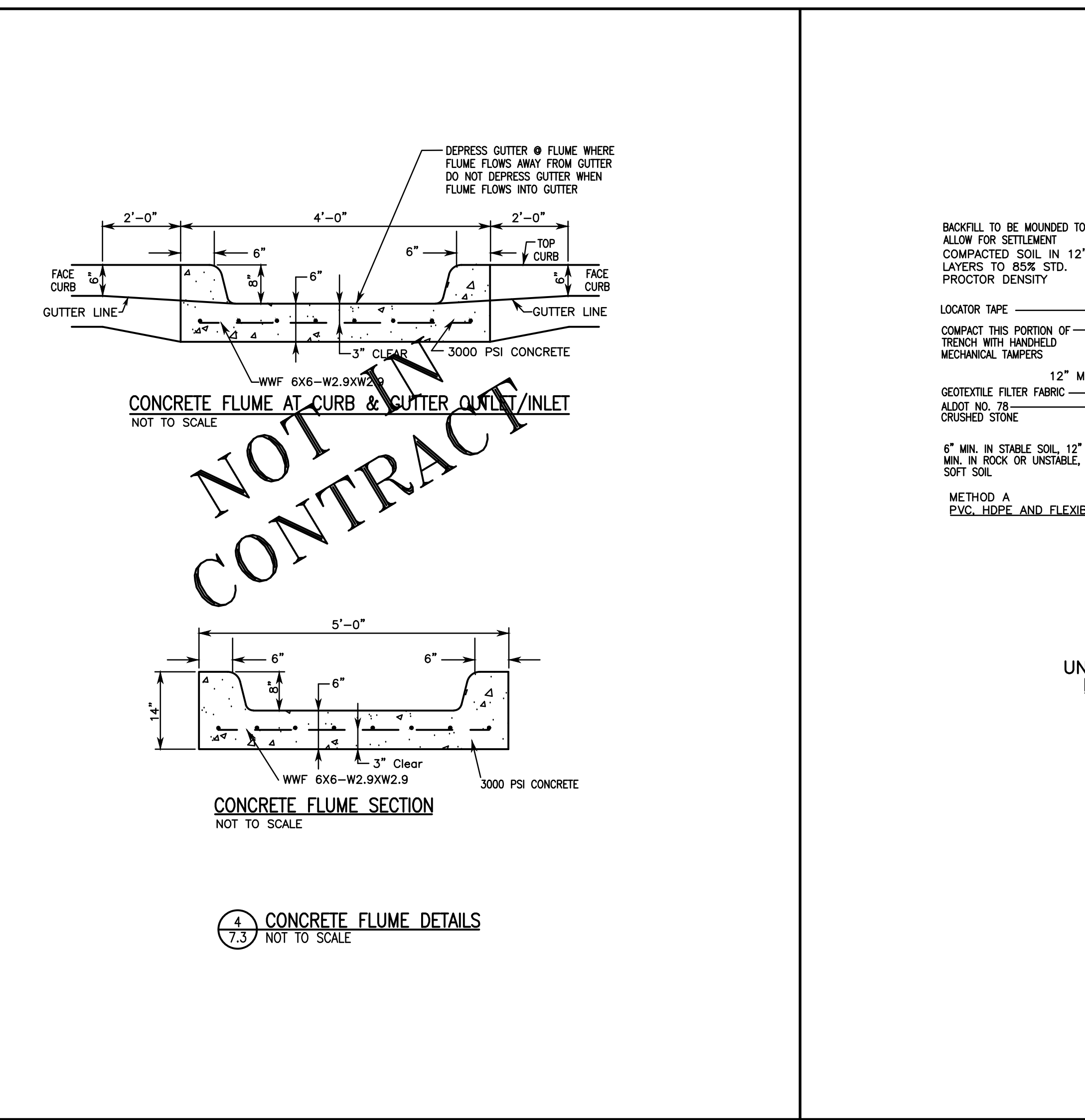
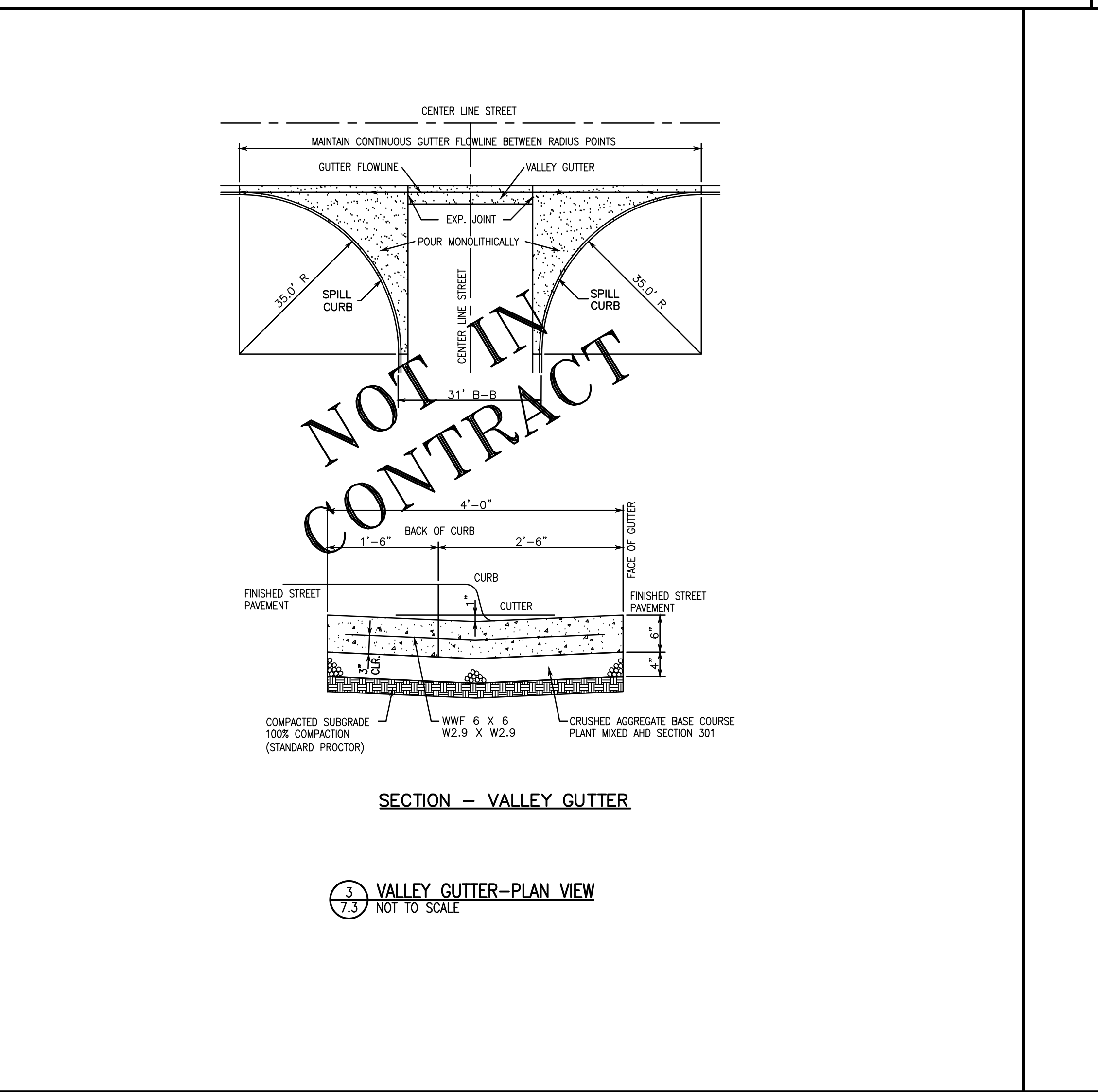
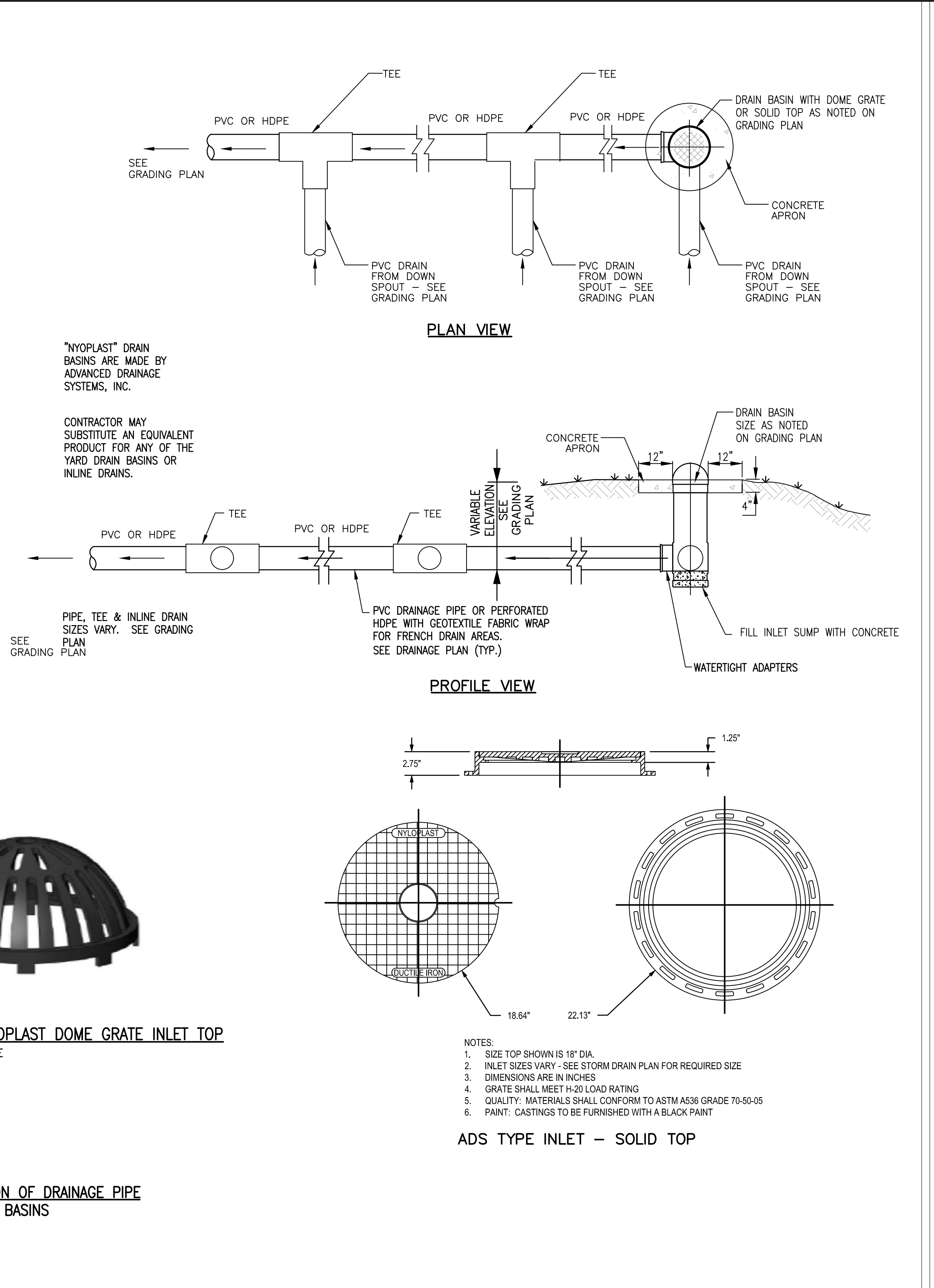
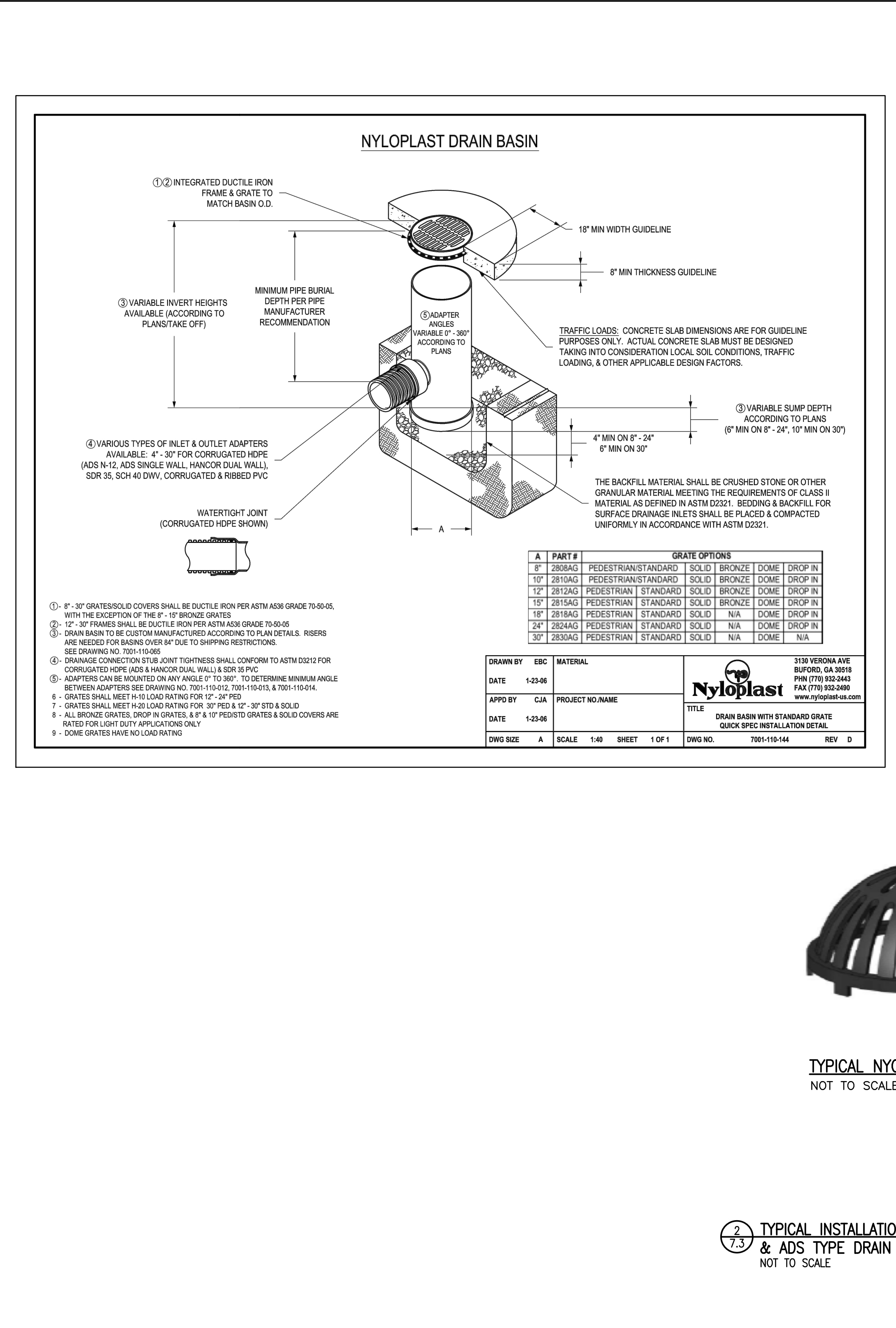
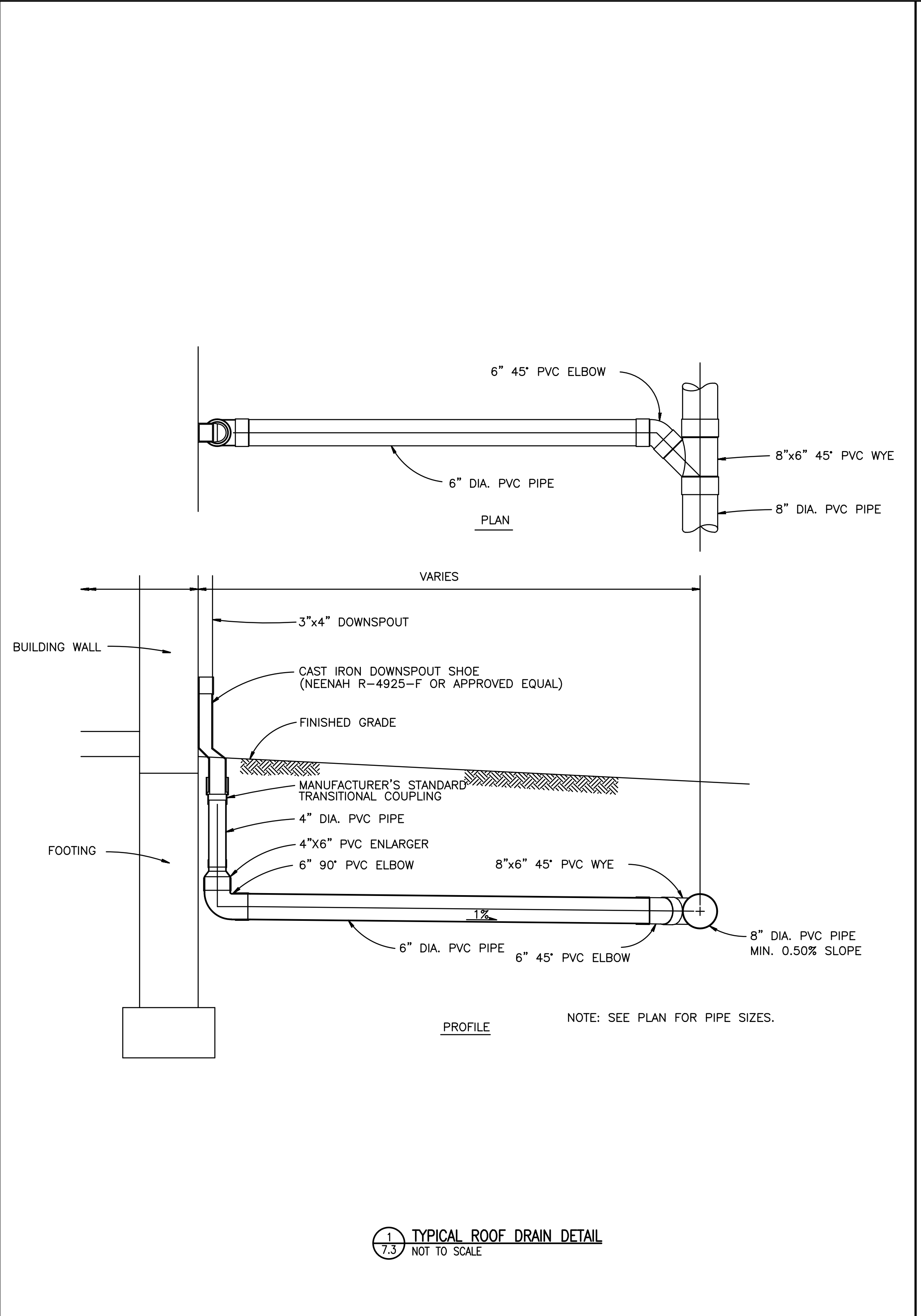


**A NEW ADDITION AT BREWER HIGH SCHOOL**  
 FOR  
**MORGAN COUNTY BOARD OF EDUCATION**

**Matthew Johnson**  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF ALABAMA  
 LICENSE NO. 12050

**CONSTRUCTION DETAILS**  
 SHEET TITLE :  
 JOB NO. : JA 1948EN  
 DRAWN BY : RG  
 ISSUE DATE : 7-01-2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **C7.2**

FILE PATH: T:\Submittals\Brewer HS Addition for McKee Architects\Sheet\_C7.3\CONSTRUCTION DETAILS\DWG PL OT DATE: 7/6/2022 3:33 PM



A NEW ADDITION AT BREWER HIGH SCHOOL  
FOR  
MORGAN COUNTY BOARD OF EDUCATION

**McKee and Associates**  
ARCHITECTS, INC.  
631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-0833

**JOHNSON & ASSOCIATES**  
ENGINEERING SURVEYING  
1200 SOUTH JOURNAL AVENUE, 30001  
MONTGOMERY, AL 36104  
TEL: 334-233-2333  
FAX: 334-233-2333

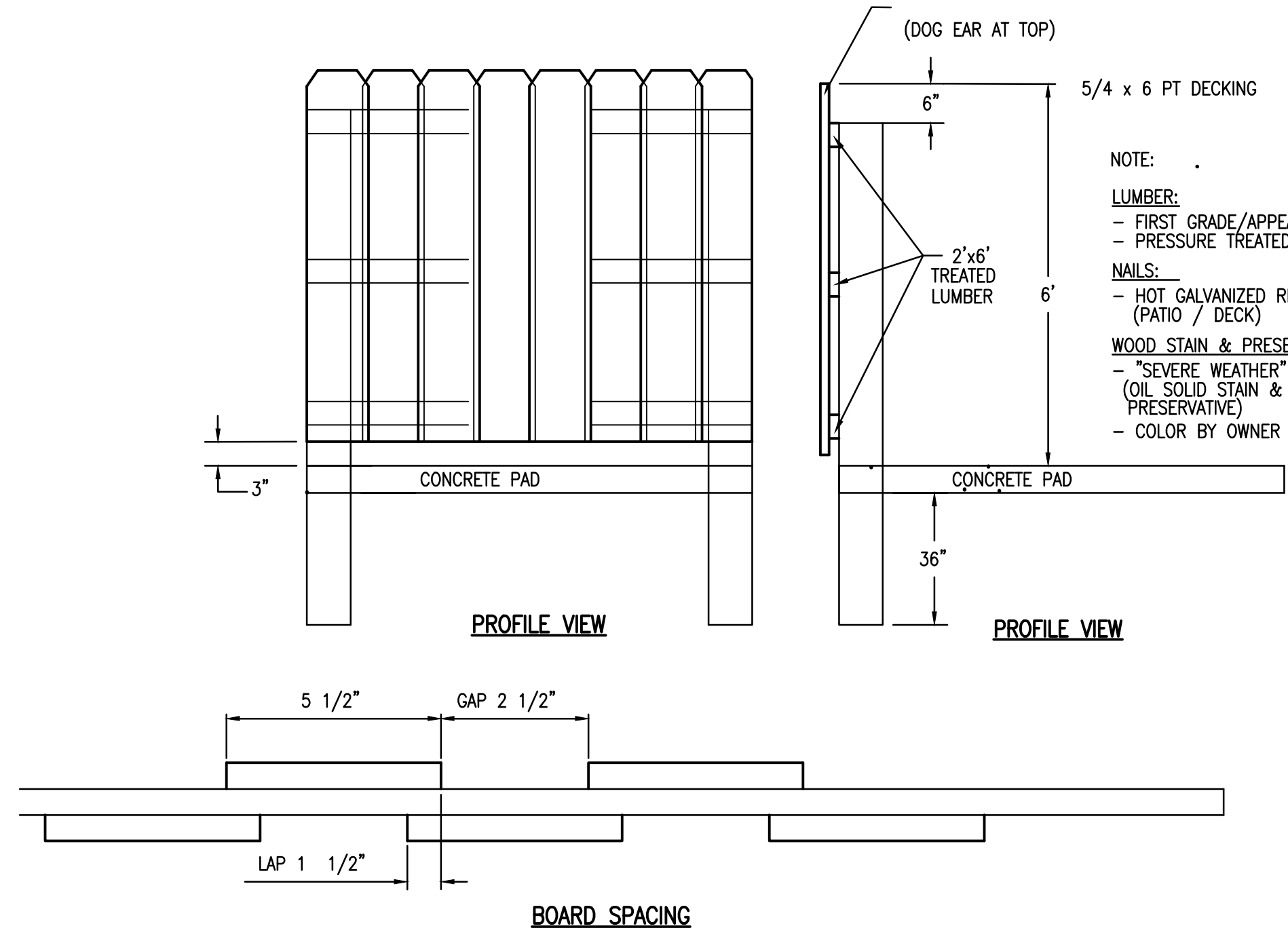
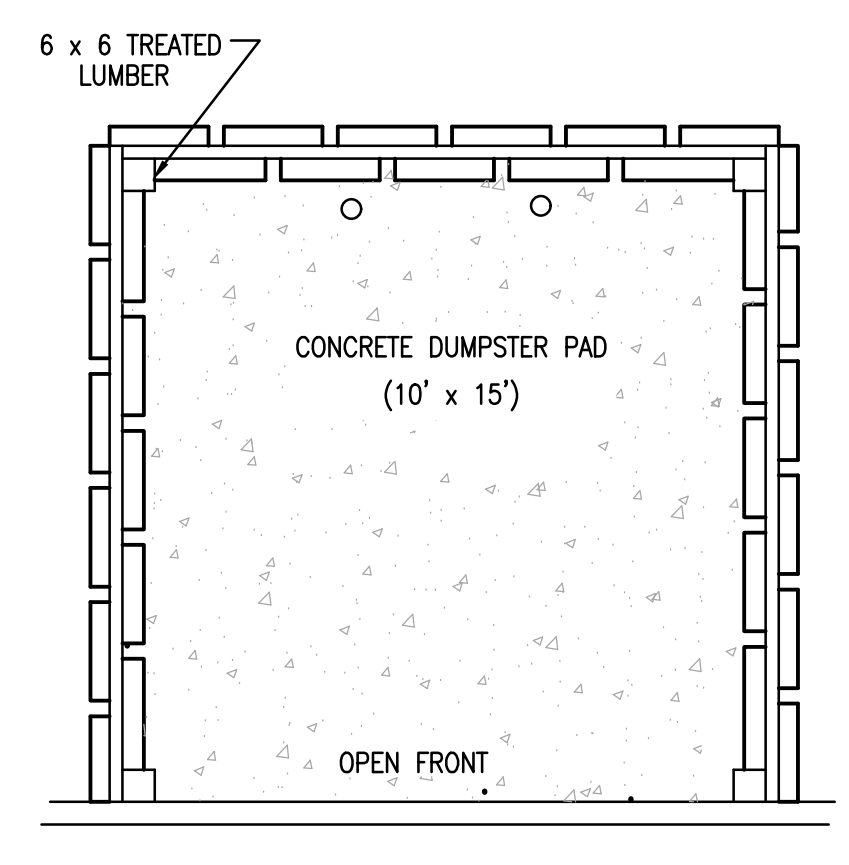
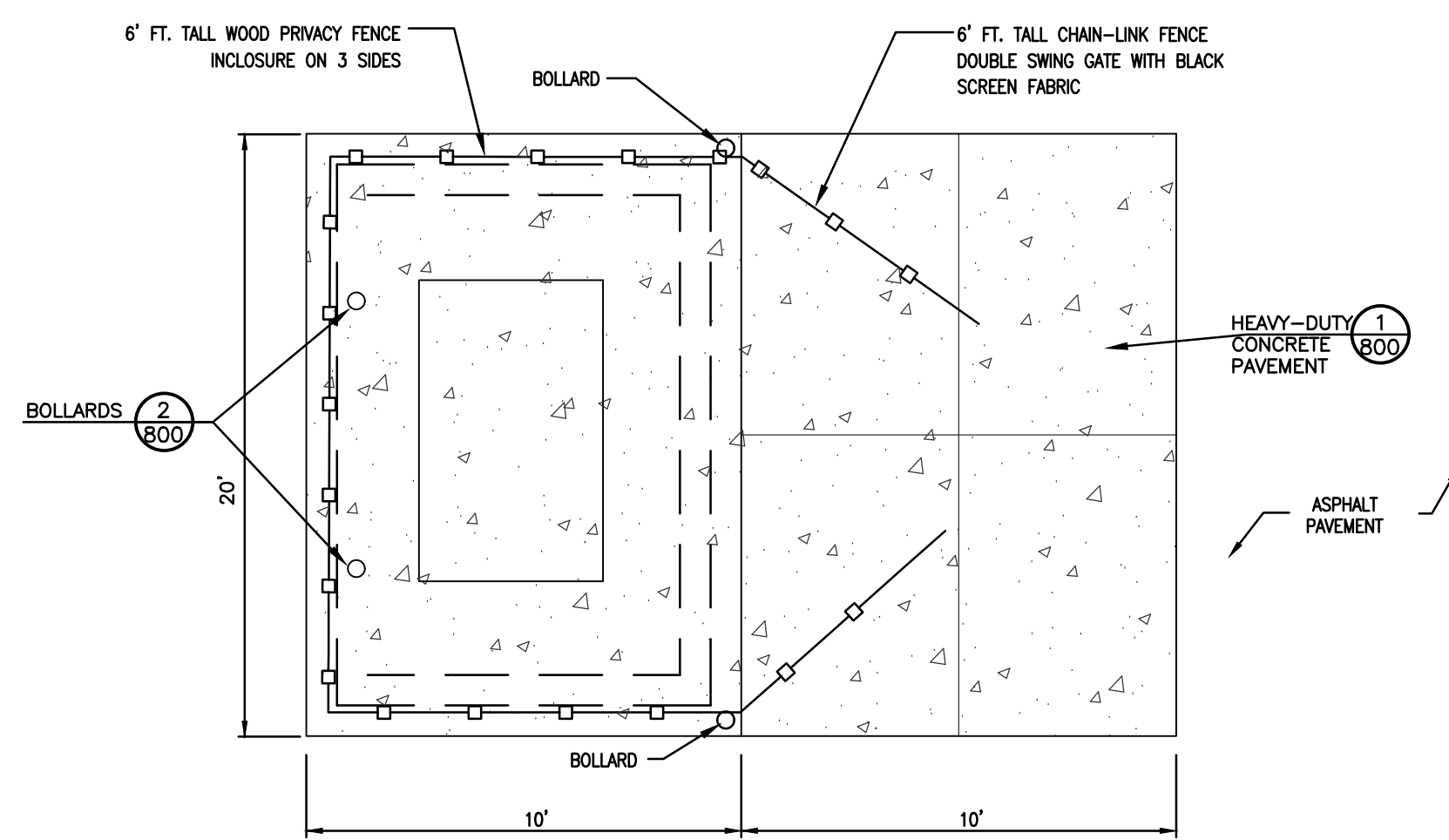
CONSTRUCTION DETAILS

SHEET TITLE :  
JOB NO. : JA 1948EN  
DRAWN BY : RG  
ISSUE DATE : 7-01-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

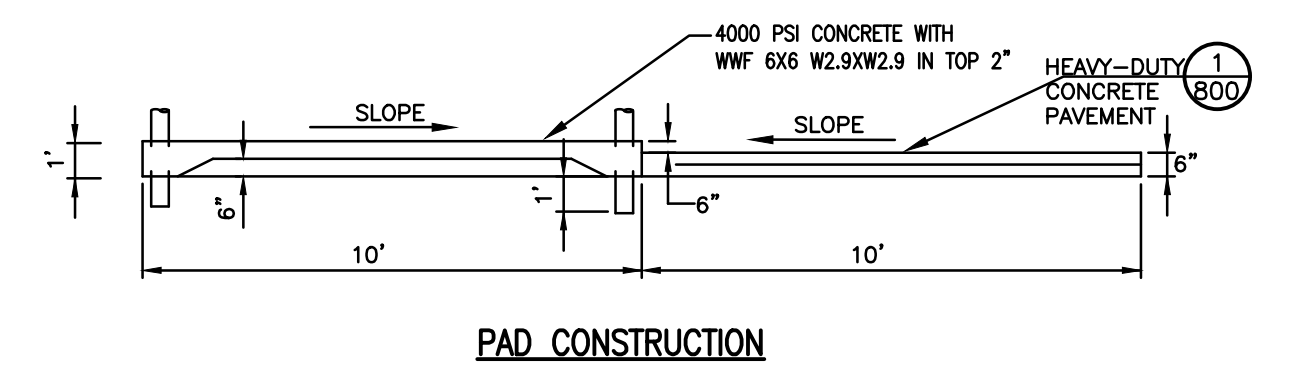
**Alabama**  
PROFESSIONAL ENGINEER  
07/01/2022  
REGISTERED NO. 16890  
NATHAN S. JOHNSON  
ENGINEER

**CONSTRUCTION DETAILS**

SHEET NO. : **C7.3**

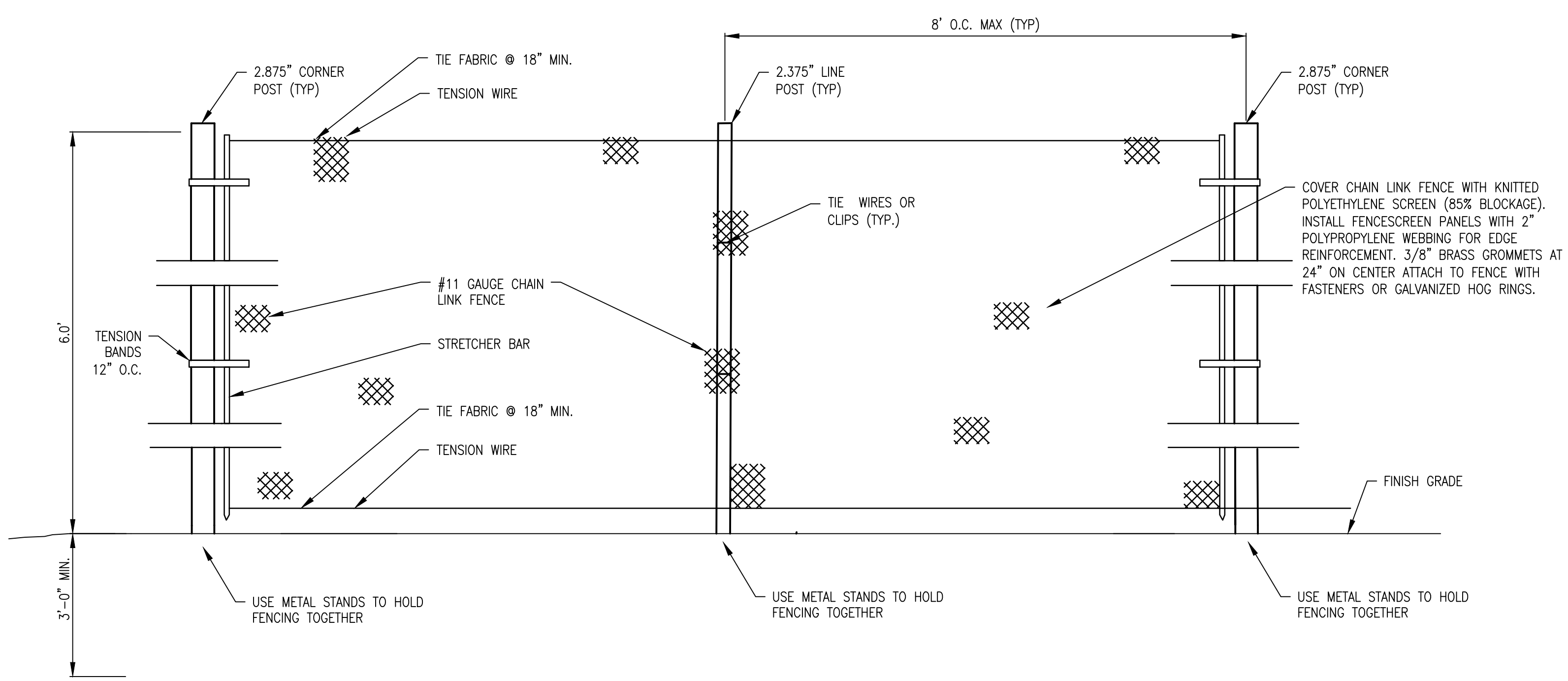


NOTE:  
 LUMBER:  
 - FIRST GRADE/APPEARANCE GRADE  
 - PRESSURE TREATED  
 NAILS:  
 - HOT GALVANIZED RING SHANK  
 (PATIO / DECK)  
 WOOD STAIN & PRESERVATIVE:  
 - "SEVERE WEATHER" BY VALSPAR  
 (OIL SOLID STAIN & WOOD  
 PRESERVATIVE)  
 - COLOR BY OWNER



**NOT IN CONTRACT**

1. DUMPSTER PAD  
 NOT TO SCALE

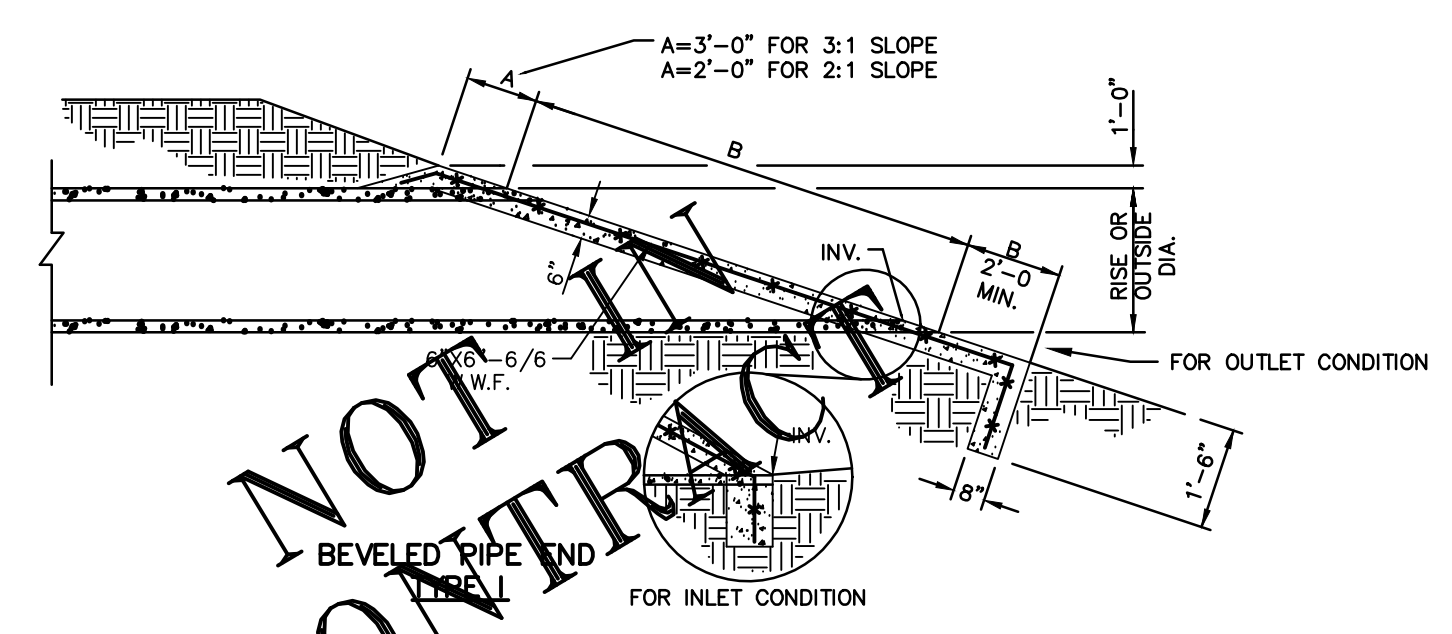
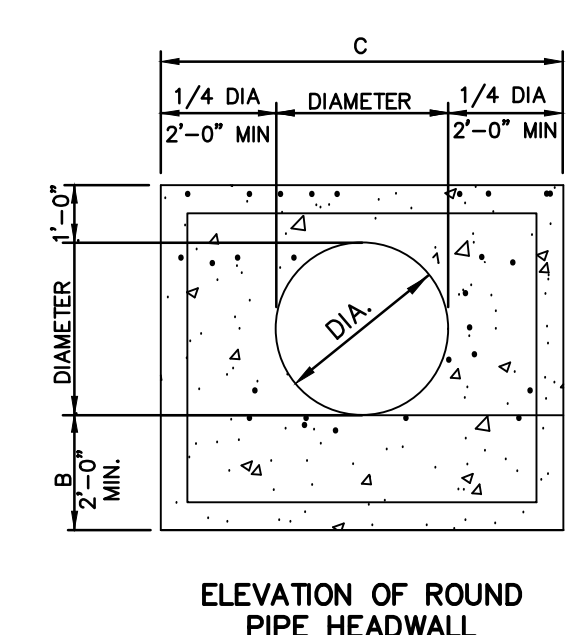


- NOTES:
- GATES MUST REMAIN IN GOOD WORKING ORDER AND MUST BE CLOSED AND SECURED DURING NON-WORKING HOURS.
  - GATES SHALL BE CONSTRUCTED SO THAT THEY SWING IN TOWARDS THE CONSTRUCTION SITE.
  - GATES MUST BE CONSTRUCTED WITH THE SAME DESIGN CHARACTERISTICS AS THE TEMPORARY CONSTRUCTION FENCE. CONTRACTOR MAY REUSE PRE-USED FENCE MATERIAL IF APPROVED BY ARCHITECT.
  - INSTALL PER MANUFACTURER RECOMMENDATIONS.
  - COVER CHAIN LINK FENCE WITH KNITTED POLYETHYLENE SCREEN (85% BLOCKAGE).
  - INSTALL FENCESCREEN PANELS WITH 2" POLYPROPYLENE WEBBING FOR EDGE REINFORCEMENT. 3/8" BRASS GROMMETS AT 24" ON CENTER ATTACH TO FENCE WITH FASTENERS OR GALVANIZED HOG RINGS.



METAL STAND

2. 6-FOOT-HIGH TEMPORARY CONSTRUCTION FENCE  
 NOT TO SCALE



GENERAL NOTES:

- THIS HEADWALL IS NOT DESIGNED TO OFFER ANY SUPPORT TO THE PIPE. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
- ALL SLOPE PAVING SHALL CONFORM TO THE CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- QUANTITIES SHOWN INCLUDE TWO SLOPE PAVED WALLS AND TWO TOE WALLS.
- CONTRACTOR SHALL INSURE THROUGH MECHANICAL MEANS OR OTHER APPROVED DEVICES THAT CONNECTION BETWEEN BEVELED PIPE END AND CONCRETE WILL NOT BE DETACHED.
- CONCRETE SHALL BE CLASS "A" WITH A MINIMUM 28 DAY STRENGTH OF 3000 P.S.I.
- PROVIDE 6" x 6" - 8/8 GAGE WELDED WIRE FABRIC FOR PIPES LARGER THAN 36" OR EQUIVALENT.
- RIPRAP SHALL BE UNIFORM SIZE THROUGHOUT, AND AT LEAST 6" THICK AT THE SMALLEST DIMENSION.

DIAMETER INCHES FT. & IN.	OPEN AREA	DIMENSIONS FOR ROUND PIPE			
		2 TO 1 SLOPE		3 TO 1 SLOPE	
		B	C	D	E
8"	0.4	1'-6"	4'-8"	1'-0"	2'-2"
10"	0.5	1'-11"	4'-10"	1'-3"	2'-8"
12"	0.8	2'-5"	5'-0"	1'-6"	3'-2"
15"	1.2	2'-10"	5'-3"	1'-11"	3'-3"
18"	1.8	3'-3"	5'-8"	2'-3"	4'-0"
21"	2.4	3'-11"	5'-9"	2'-7 1/2"	4'-9"
24"	3.1	4'-8"	6'-0"	3'-0"	5'-0"
30"	4.9	5'-3"	6'-8"	3'-9"	5'-3"
36"	7.1	6'-9"	7'-0"	4'-8"	6'-0"
42"	9.6	7'-0"	7'-8"	5'-3"	6'-3"
48"	12.8	8'-0"	8'-0"	6'-0"	7'-0"
54"	15.9	10'-1"	8'-8"	6'-9"	7'-7 1/2"
60"	19.6	11'-3"	9'-0"	7'-8"	8'-0"

3. SLOPE PAVED HEADWALL  
 NOT TO SCALE

A NEW ADDITION AT BREWER HIGH SCHOOL  
 FOR  
 MORGAN COUNTY BOARD OF EDUCATION



*Nathan S. Johnson*

SHEET TITLE : CONSTRUCTION DETAILS

JOB NO. : JA 1948EN

DRAWN BY : RG

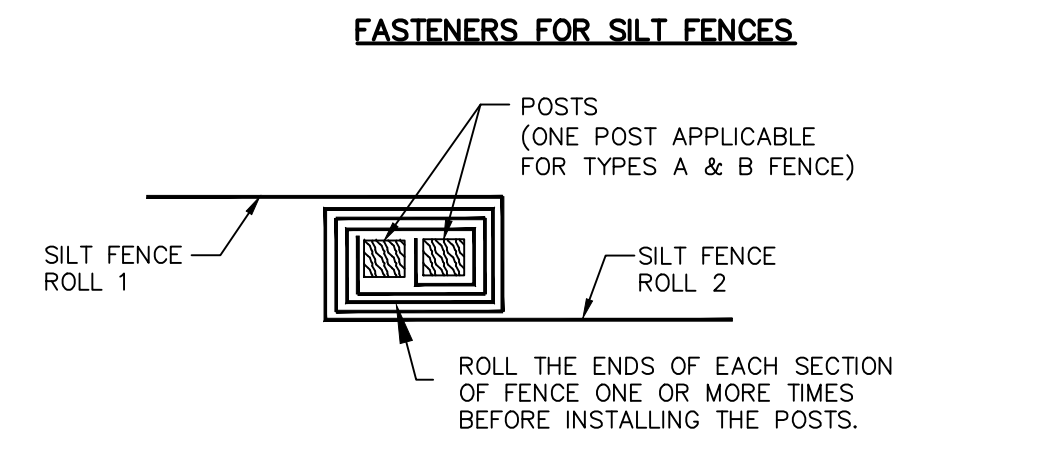
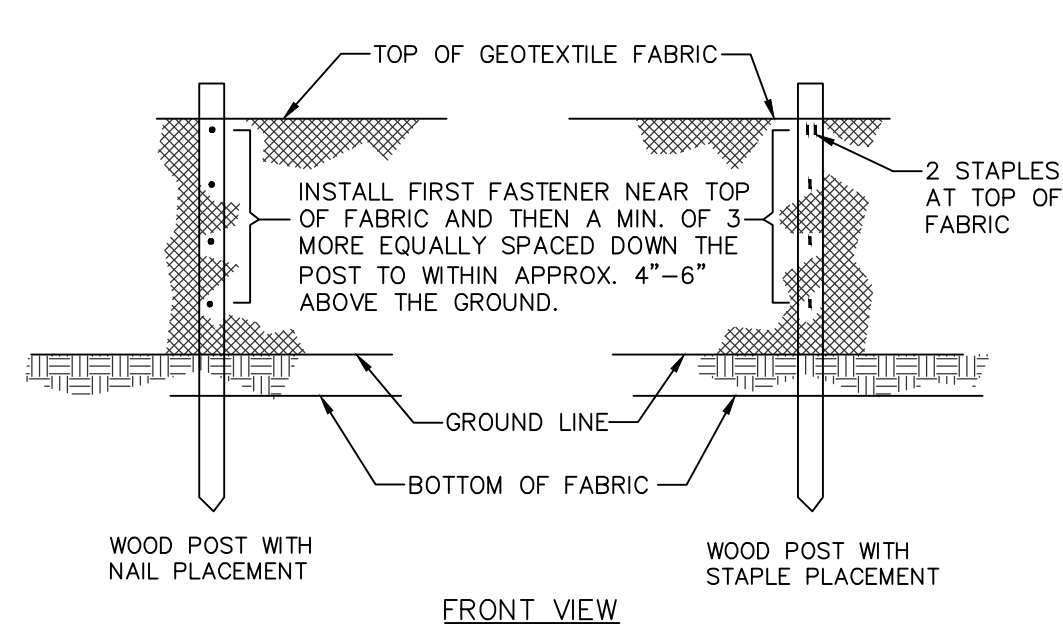
ISSUE DATE : 7-01-2022

REVISED DATE :

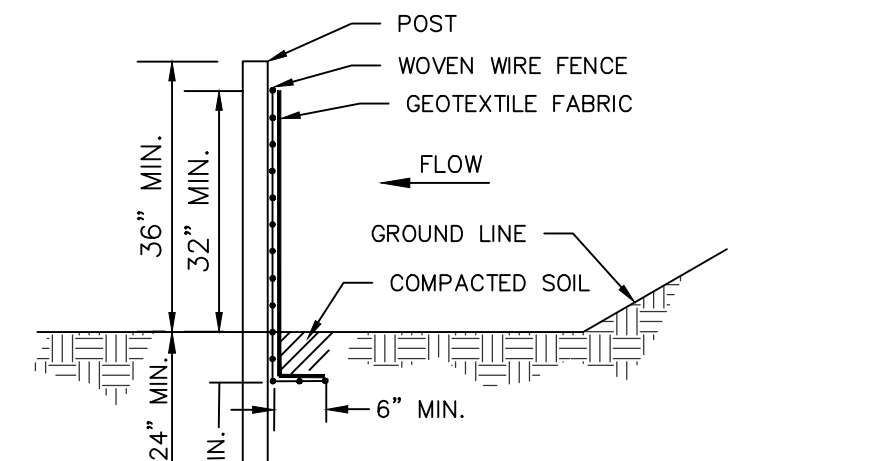
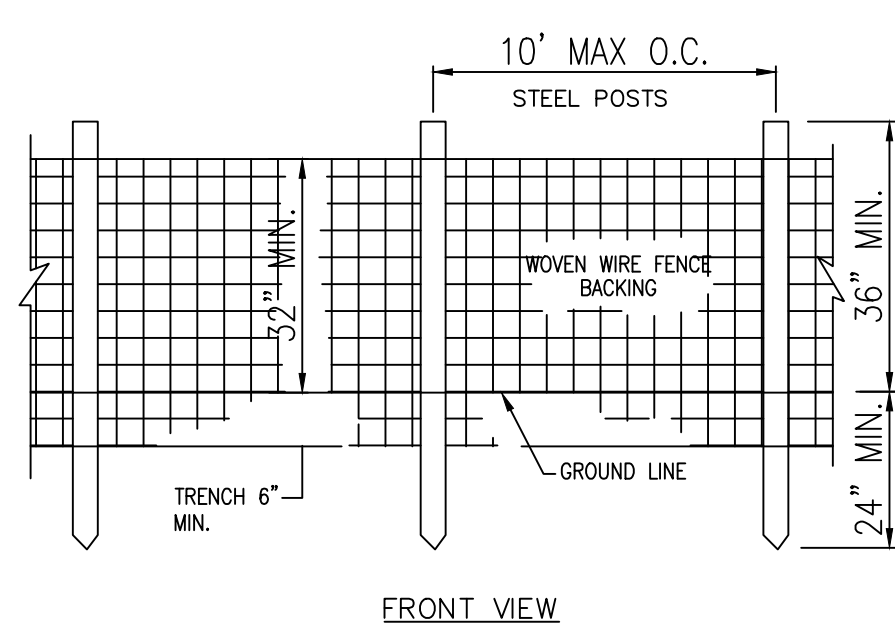
REVISED DATE :

REVISED DATE :

SHEET NO. : C7.4



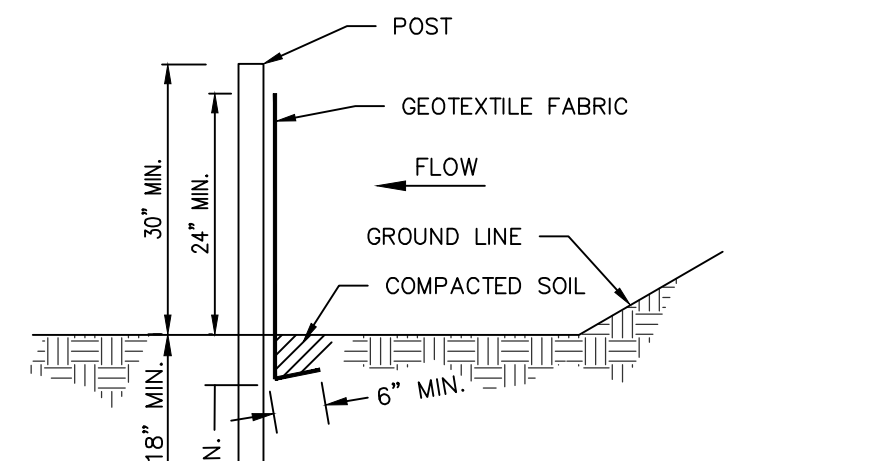
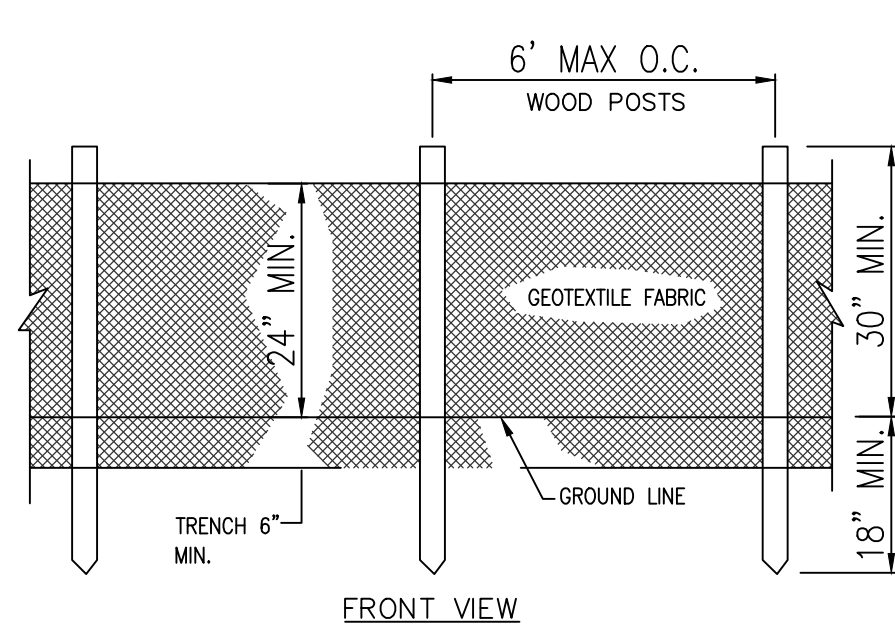
**INSTALLATION**



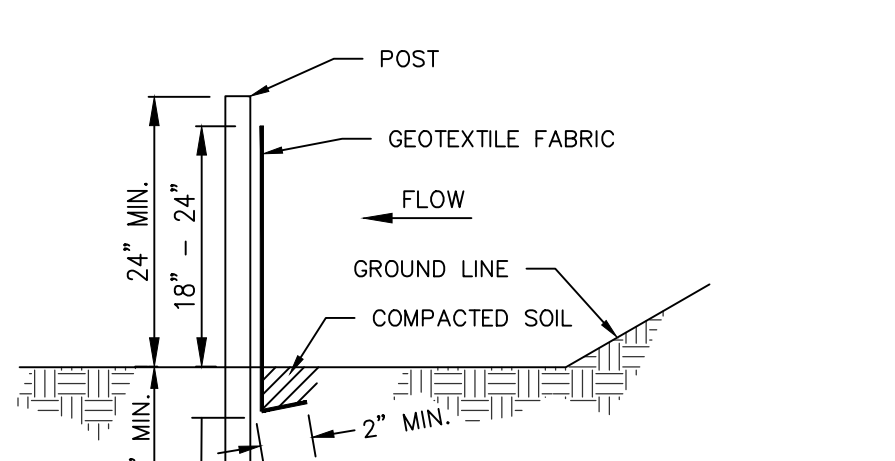
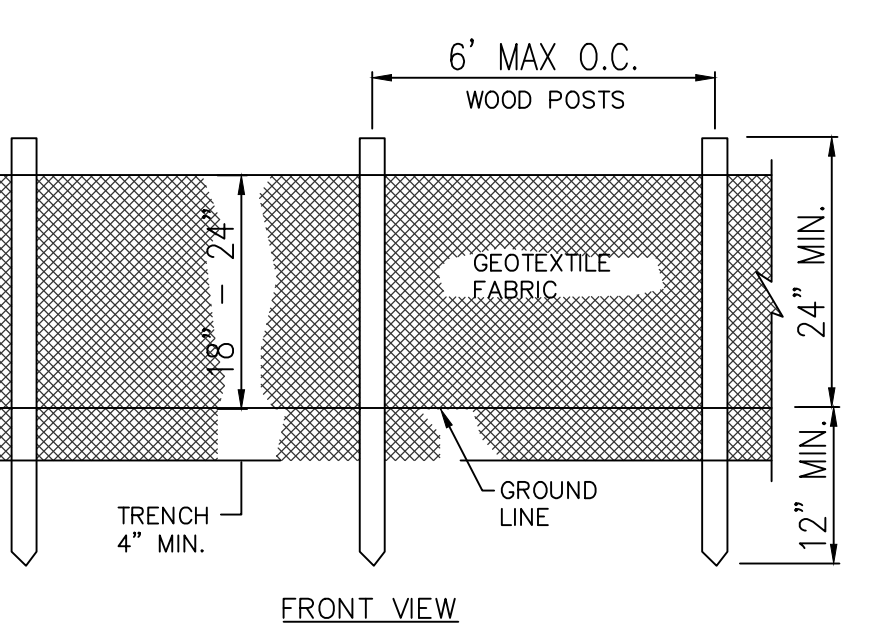
**TYPE "A" SILT FENCE**

- NOTES:
1. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OR WIRE TIES.
  2. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.
  3. MACHINE TRENCHED GEOTEXTILE SHALL BE TRENCHED VERTICAL AT LEAST 6" DEEP.

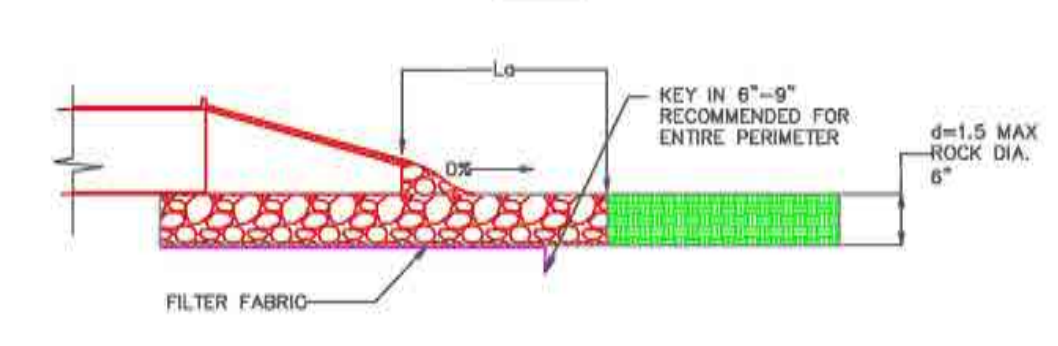
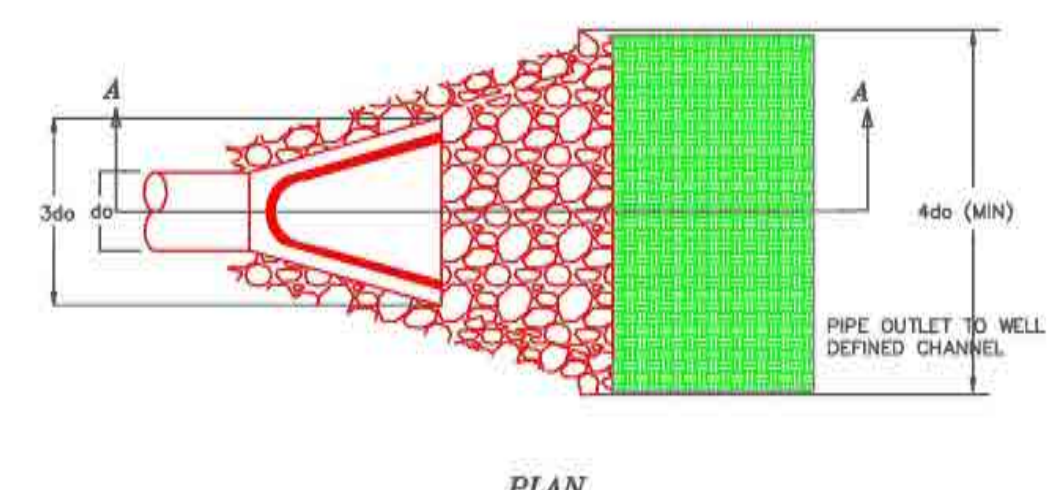
1 SILT FENCE  
7.5 NOT TO SCALE



**TYPE "B" SILT FENCE**

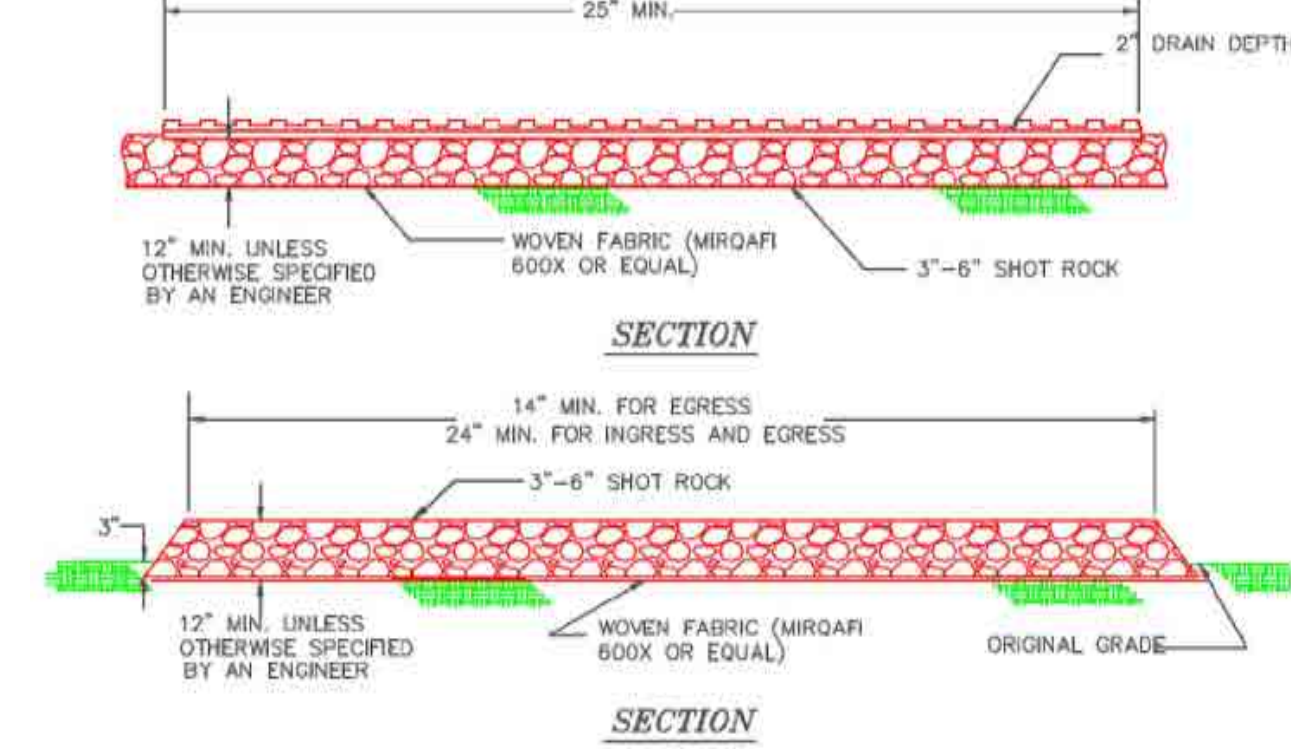
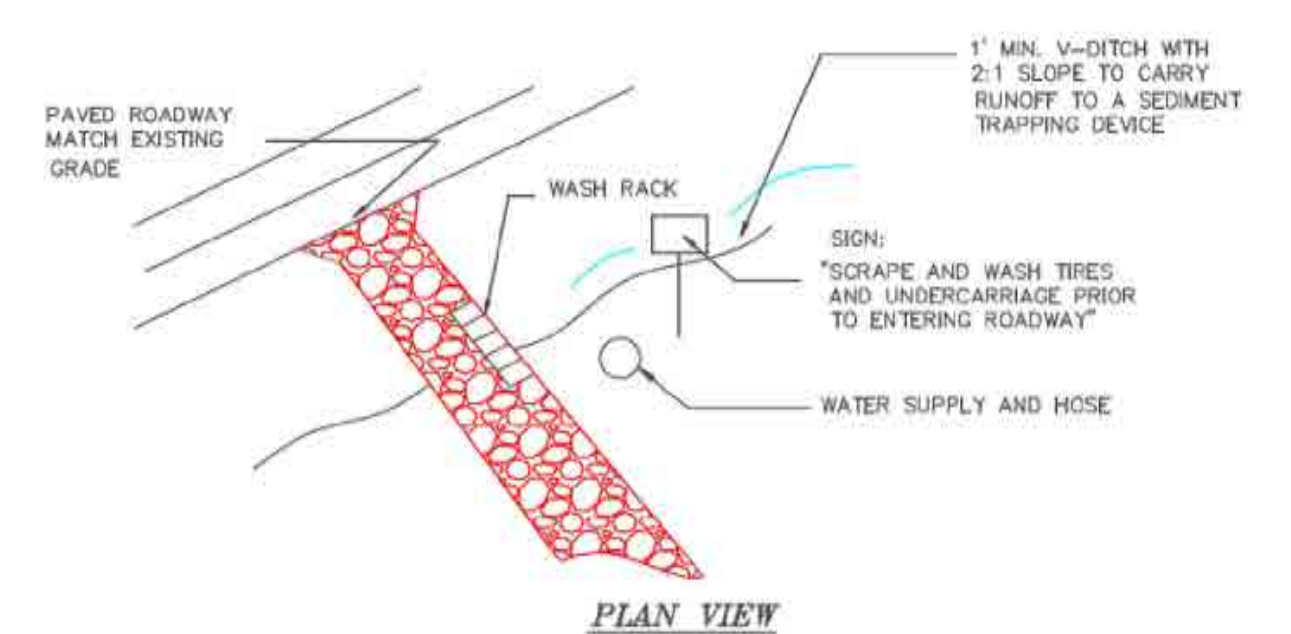
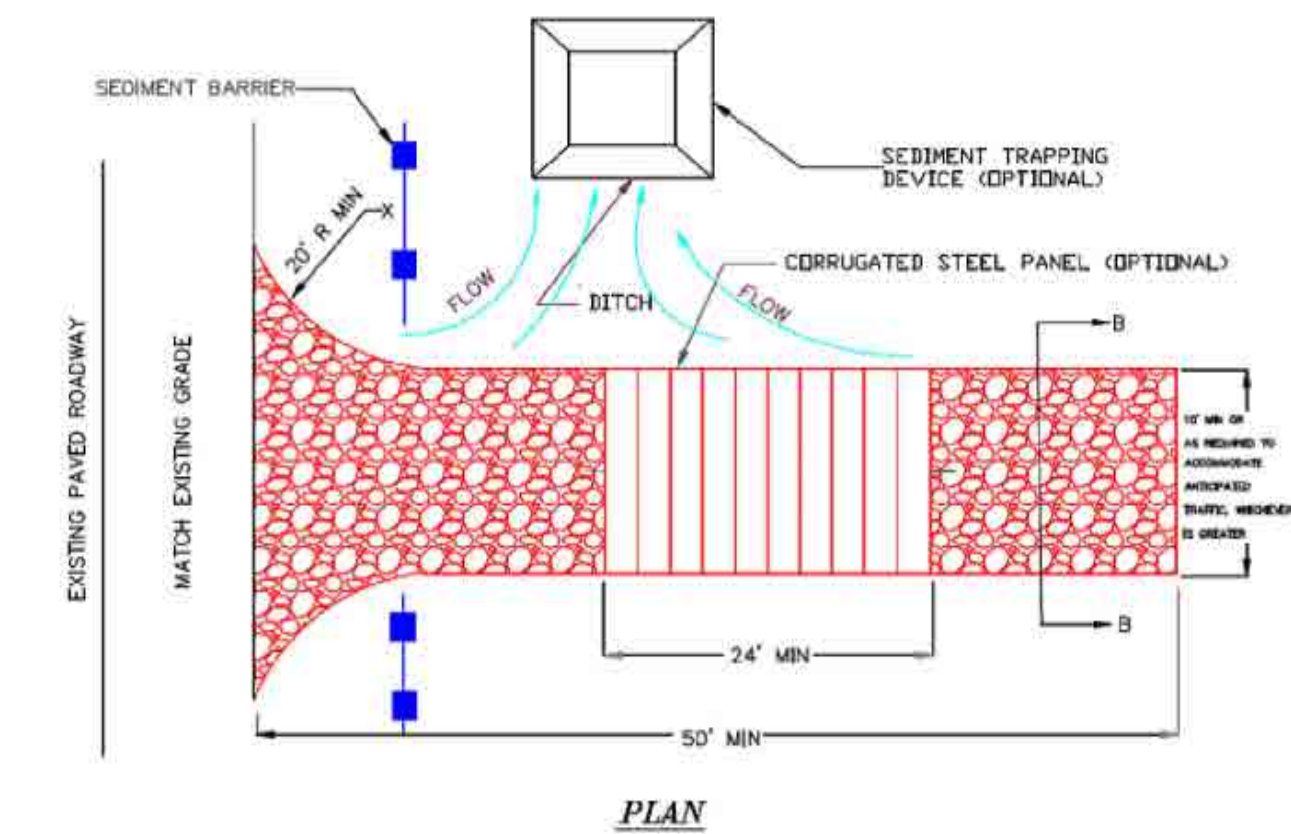
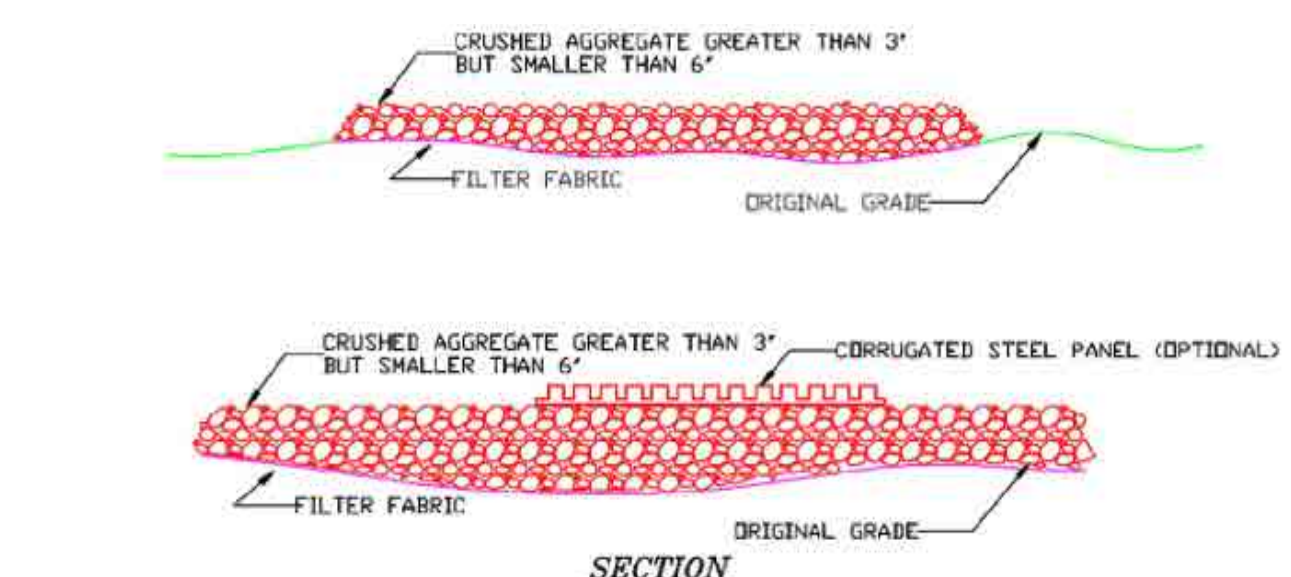
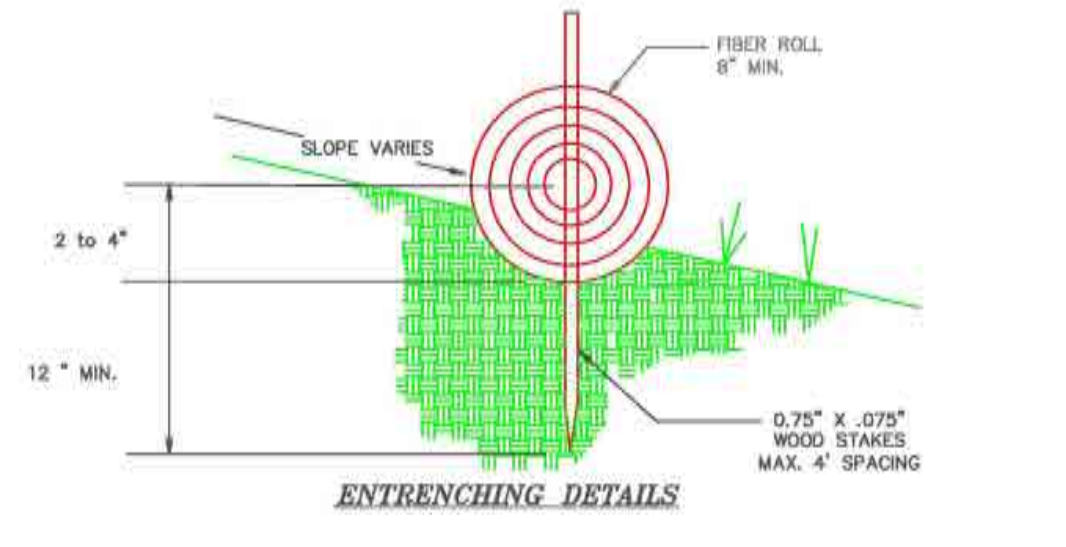
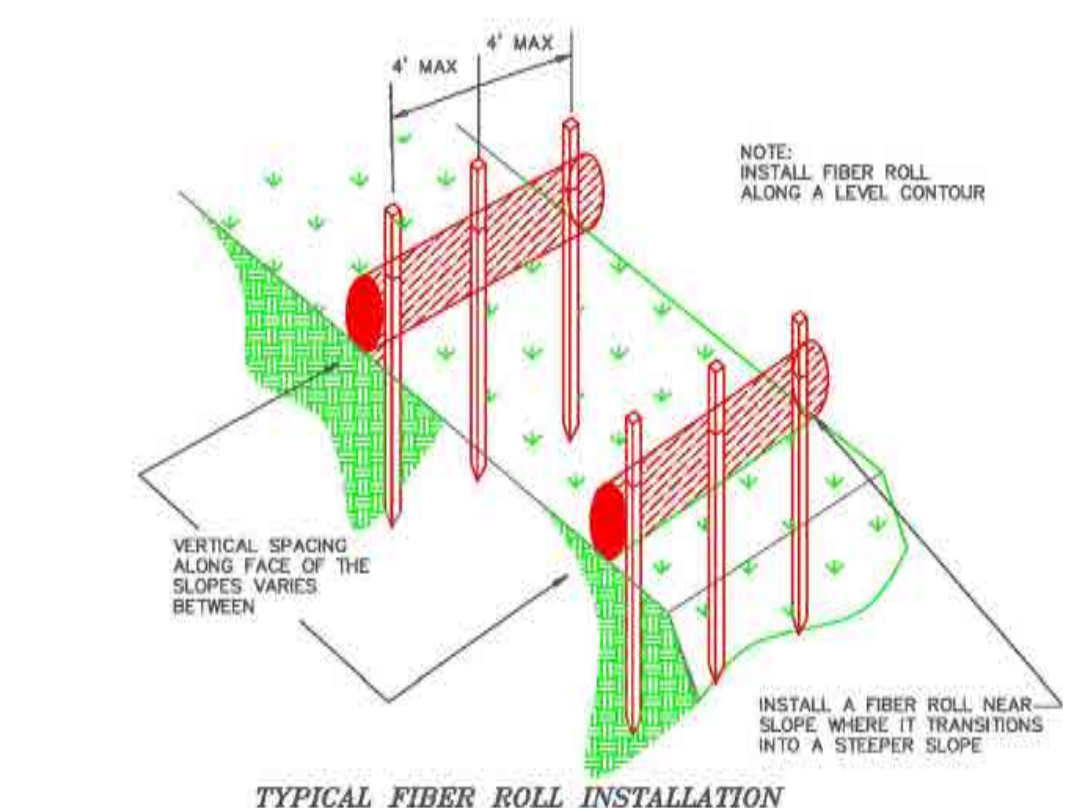


**TYPE "C" SILT FENCE**

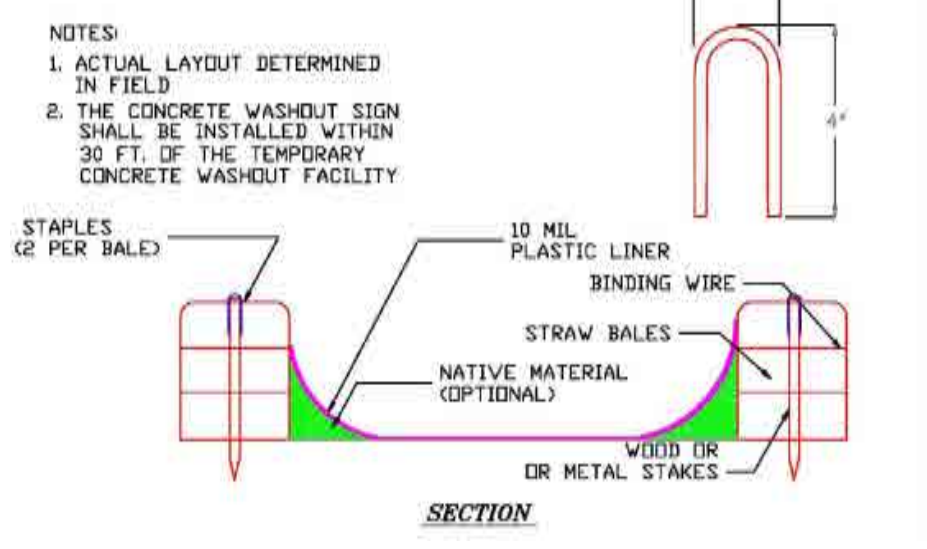
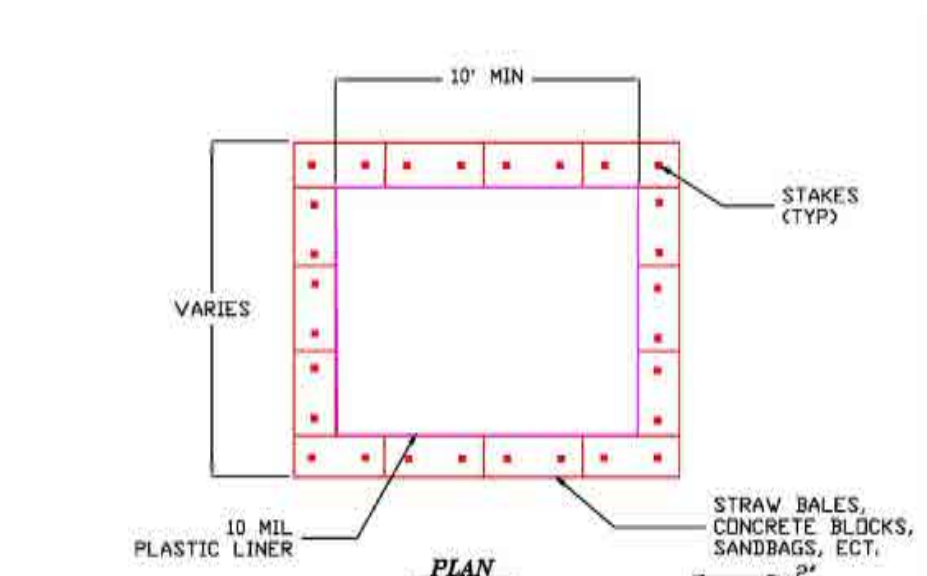


PIPE DIAMETER INCHES	DISCHARGE CFS/A	APRON LENGTH L <sub>a</sub> FT	RIP RAP DIA DIAMETER MIN INCHES
12	5	10	4
	10	13	6
	15	16	8
18	10	10	8
	30	23	12
	40	26	16
24	30	18	8
	40	26	8
	60	30	12

2 END TREATMENT  
7.5 NOT TO SCALE

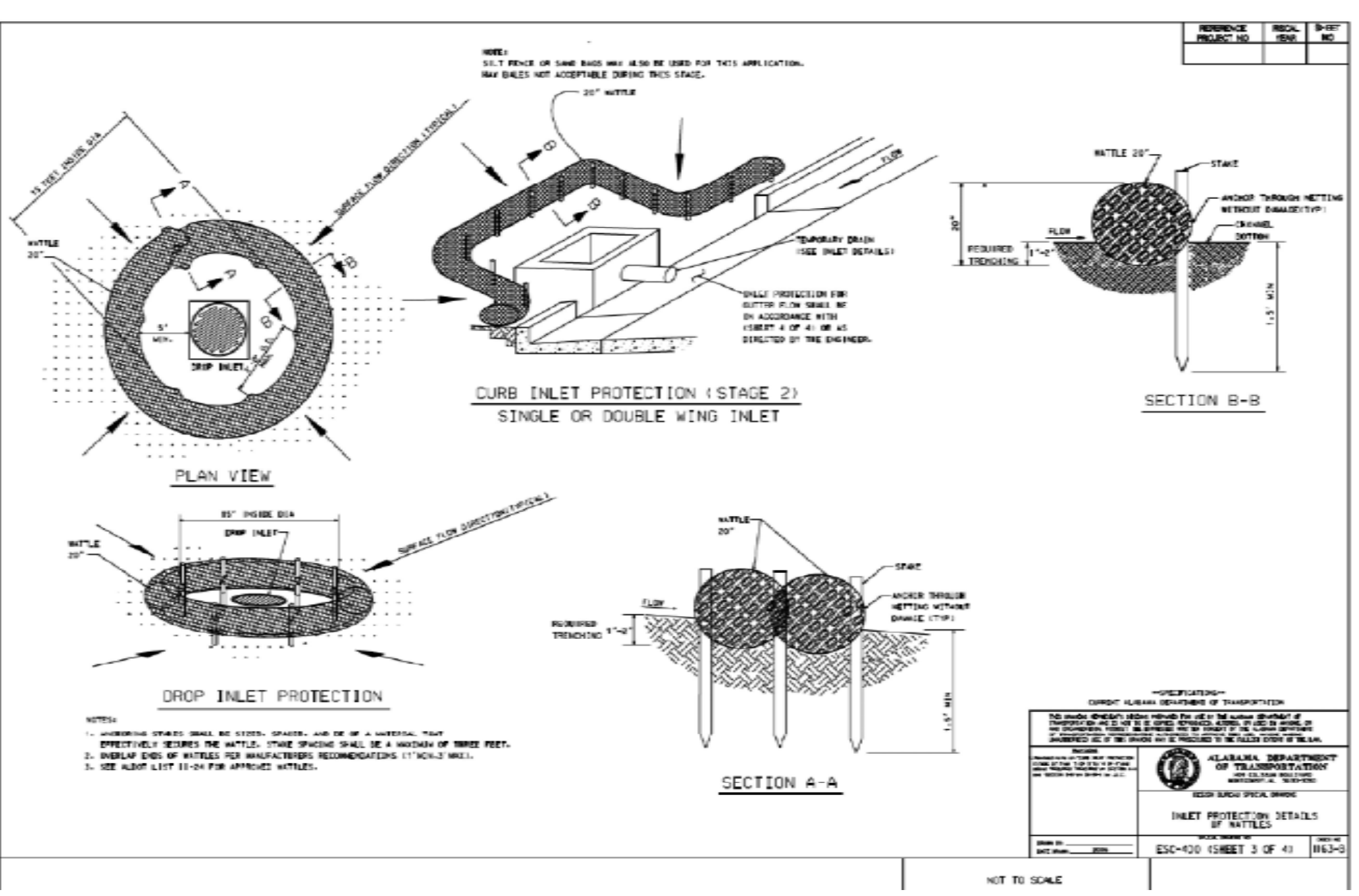


**WASHDOWN STATION**

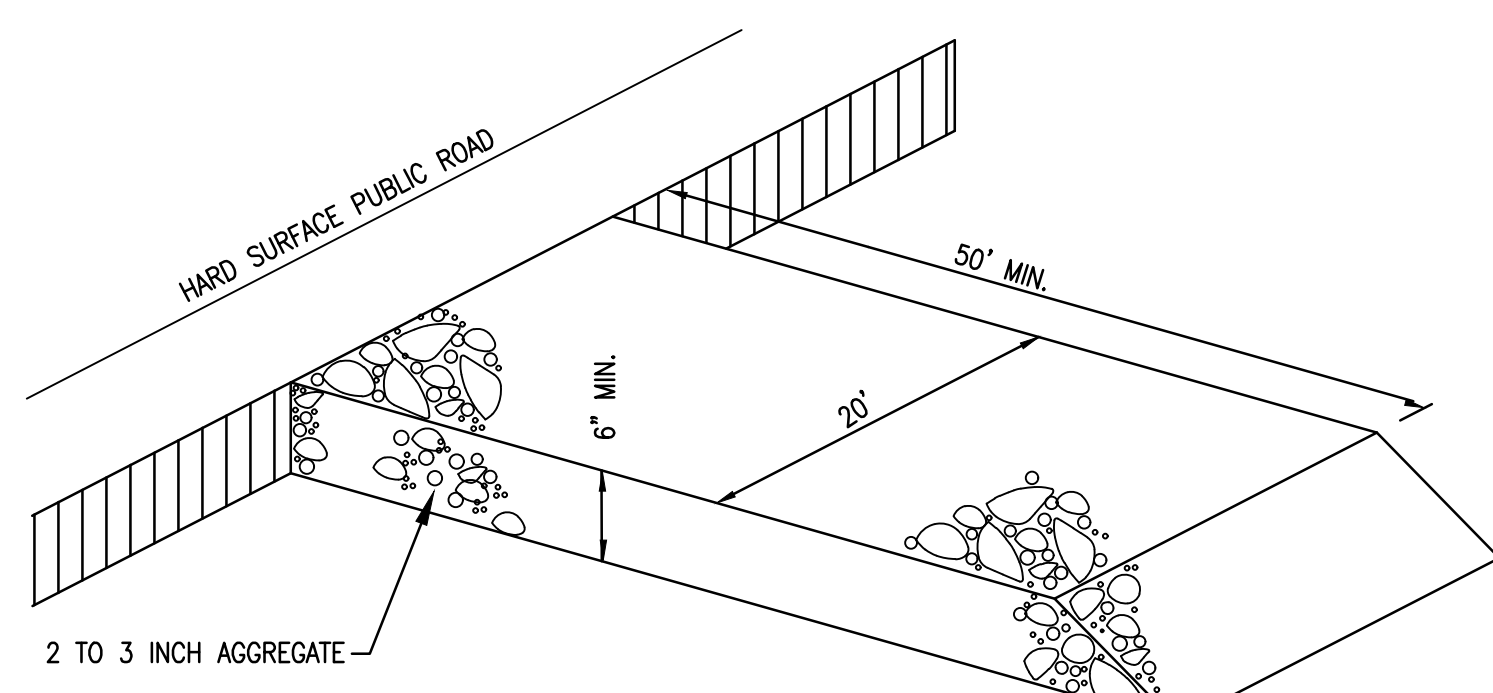


**CONCRETE WASHDOWN CONTAINMENT DETAIL**

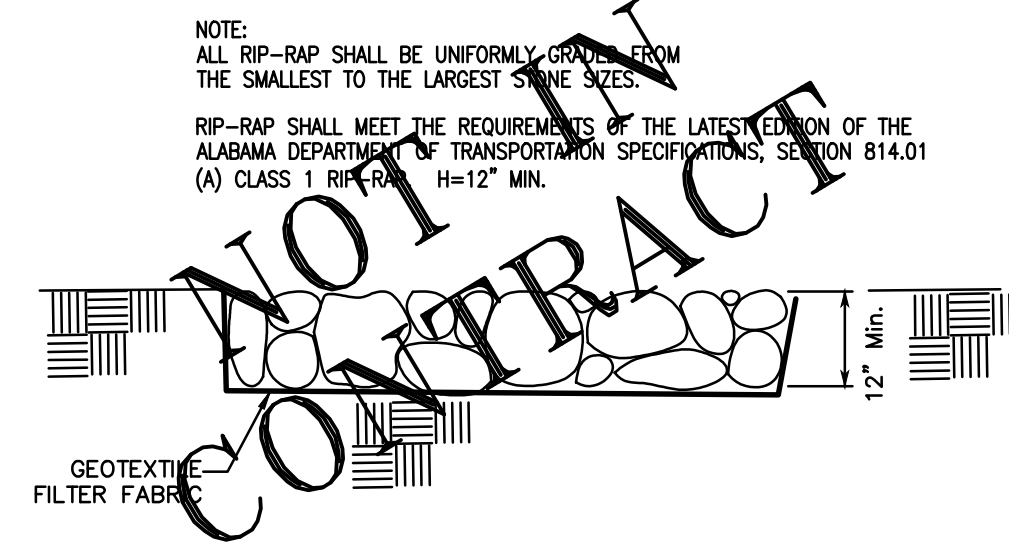
6 CONCRETE WASHDOWN CONTAINMENT  
7.5 NOT TO SCALE



3 WATTLE DETAILS  
7.5 NOT TO SCALE



4 GRAVEL CONSTRUCTION EXIT  
7.5 NOT TO SCALE



5 RIPRAP DETAIL  
7.5 NOT TO SCALE

**A NEW ADDITION AT BREWER HIGH SCHOOL**  
FOR  
**MORGAN COUNTY BOARD OF EDUCATION**

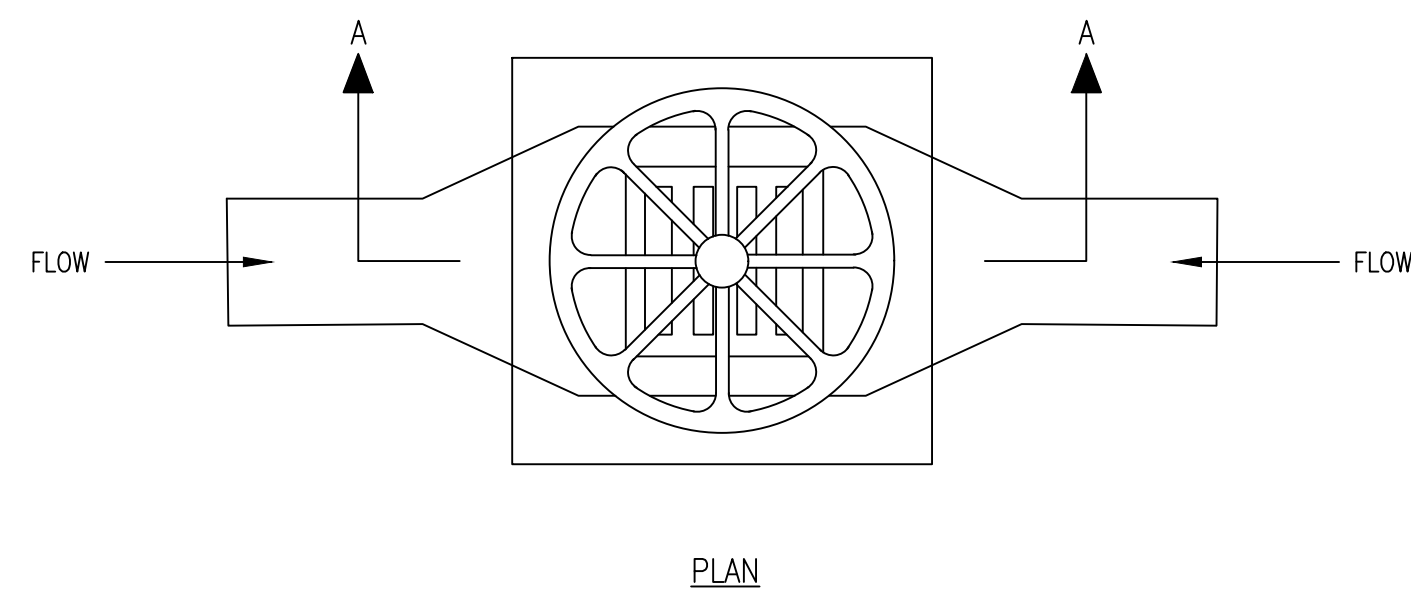


*Nathan S. Johnson*

**CONSTRUCTION DETAILS**

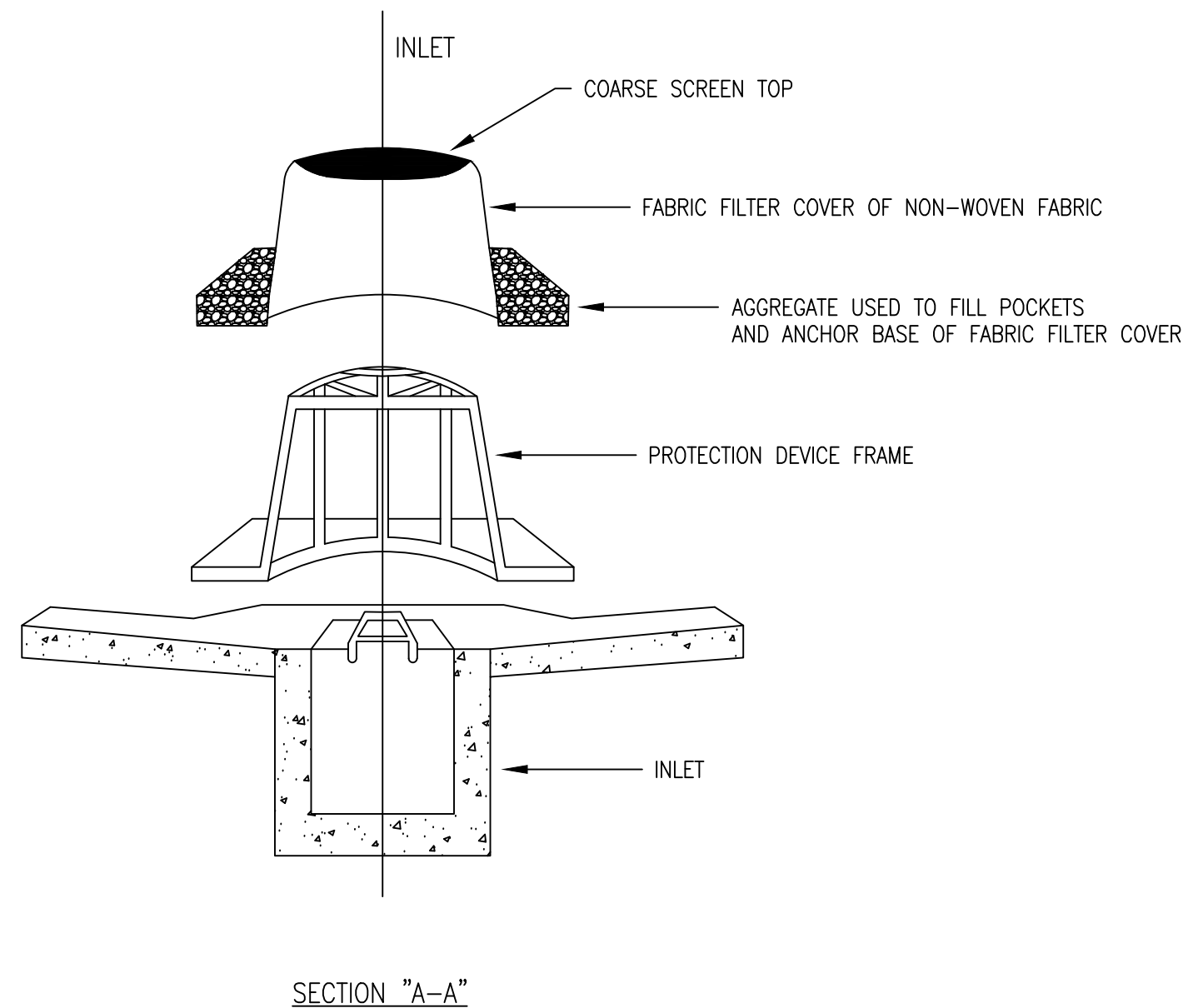
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DRAWN BY : RG  
ISSUE DATE : 7-01-2022  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **C7.5**



PLAN

- NOTES:
- FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY THE ENGINEER.
  - FILL POCKETS AROUND BASE OF FILTER COVER WITH #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
  - USE ONLY DURING STAGE 3 OR 4 INLET CONSTRUCTION.
  - FOR MEDIAN INLET PROTECTION, THE ELEVATION OF THE COARSE SCREEN TOP SHOULD BE A MINIMUM OF 6" OR BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.
  - INLET PROTECTION DEVICES MAY BE USED IN LIEU OF WATTLES/SILT FENCE AT DISCRETION OF CONTRACTOR AS APPROVED BY THE ENGINEER.



SECTION "A-A"

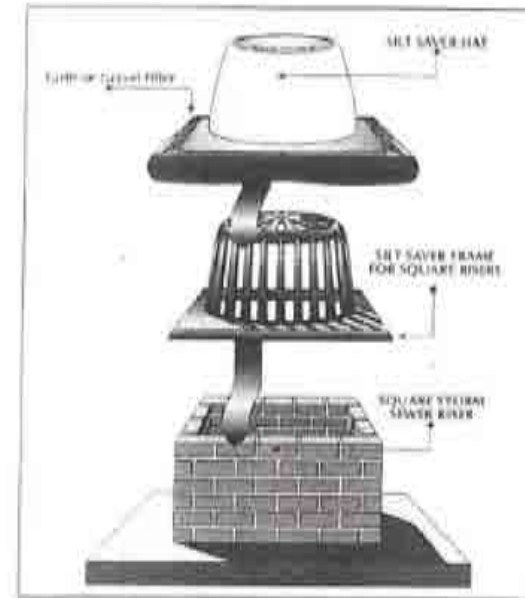
**1**  
SILT SAVER OR EQUAL  
INLET PROTECTION  
NOT TO SCALE

CONTRACTOR MAY SUBSTITUTE AN EQUIVALENT PRODUCT FOR ANY OF THE INLET PROTECTION DEVICES SHOWN.

**Specifications**

The patented **Silt-Saver Frame** is constructed of partially recycled, high molecular weight, high-density polyethylene copolymer (HDPE). This material has super stress crack resistance combined with high impact strength and rigidity. **Frames are currently available in 2 models: R-100A - Round Base** to fit the 60" O.D. precast risers as used in most residential and light commercial applications and **S-200A - Square Base** to fit the 60" O.D. brick or precast designs as used in most D.O.T. Highway applications.

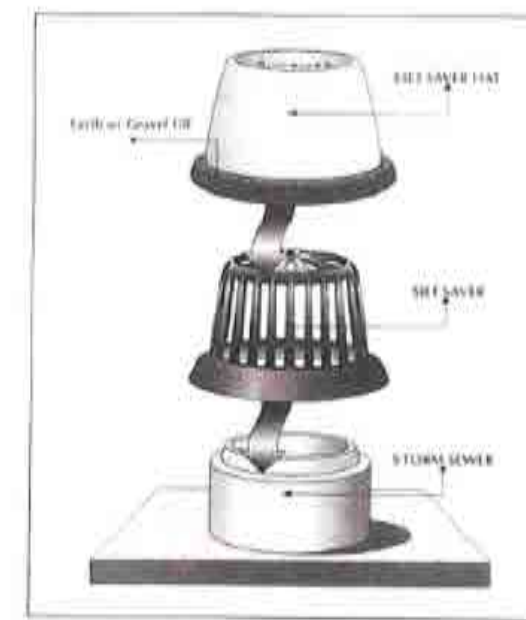
Silt-Saver Frame and Filter Assembly will also accommodate drainage structures smaller than these listed with no special design required.



Silt-Saver, Inc. warrants all products against material defects and workmanship at the time products are released. However, due to the nature of construction projects, the durability and long term use of these products is not warranted.

All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind, expressed or implied. The user should not assume that all safety measures are indicated, or that other measures of safety may not be required.

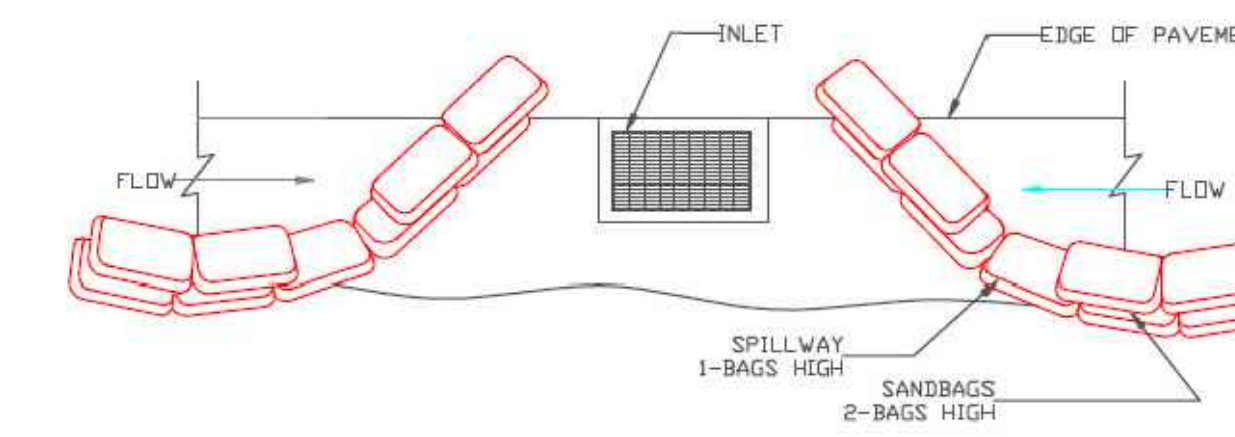
For Product Information Contact Your Local Distributor or Silt-Saver, Inc.  
(770) 388-7818 -or- Toll Free 1 (888) 382-SILT (7458)  
Web: [www.silt-saver.com](http://www.silt-saver.com) Email: [sales@silt-saver.com](mailto:sales@silt-saver.com)



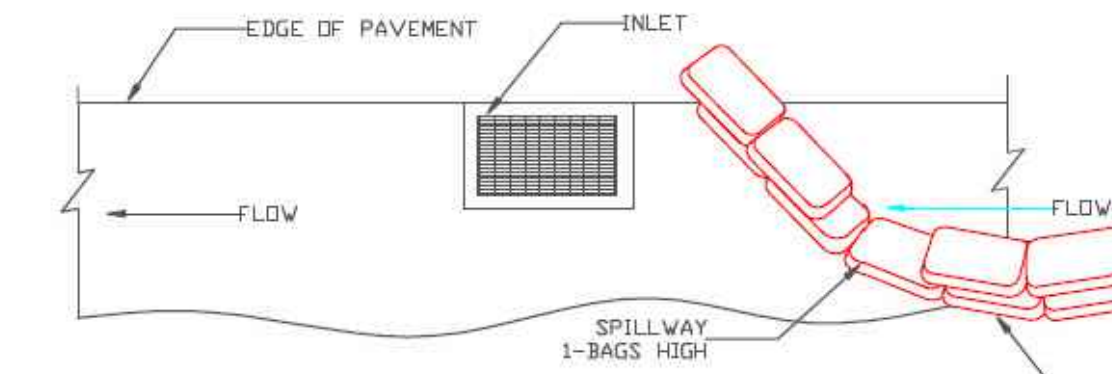
The patented **Silt-Saver Filter** designed to custom fit each frame and is constructed of non-woven polyester, needle punched and heat-set to provide durability. This material was chosen for its ability to provide consistent and continuous filtration under everyday job site conditions. The woven high visibility green filter top not only provides the **visible safety** but also provides a **higher flow** for the unexpected rain events.

Weight	0-3776	3.0 oz yd <sup>2</sup>
Tensile strength	0-4632	80lbs
Elongation	0-4632	50%
Multi/ten burst	0-3796	150
Puncture strength	0-4833	50
Triaxial tear	0-4533	30
ACS-US std sieve	0-4751	70
Permeability, -1"	0-4491	2.0
Flow*	0-4491	102 gpm/hr
U.V. Resistance, %	D-4355 (500 hrs)	70

\* Due to the variations in test conditions, soil types, soil stability, etc.) Silt-Saver, Inc. does not specify long term effectiveness, resistance to staining, if this is a concern, one may want to conduct a gradient rate test that will compare a specific soils hydraulic gradient to the hydraulic gradient through the filter.

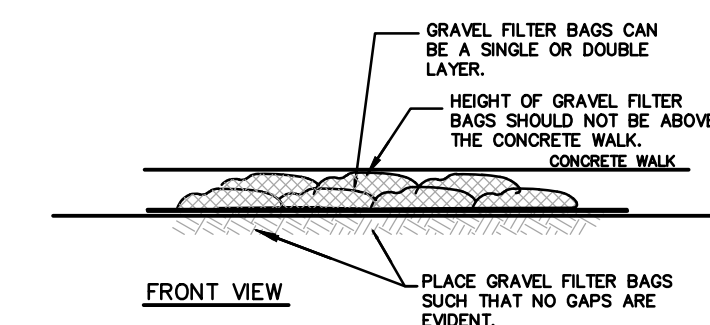


TYPICAL PROTECTION FOR INLET ON SUMP

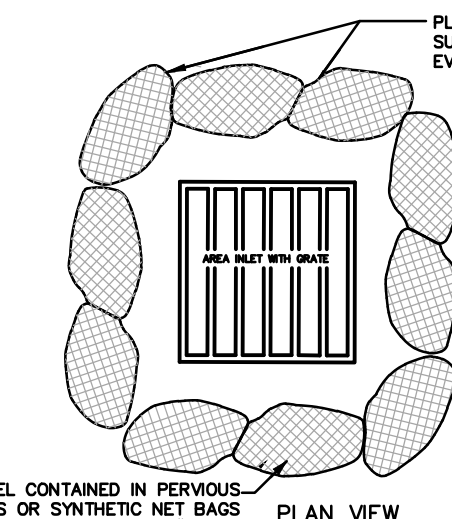


TYPICAL PROTECTION FOR INLET ON GRADE

- NOTES:
- INTENDED FOR SHORT TERM USE.
  - USE TO INHIBIT NON-STORM WATER FLOW.
  - ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
  - BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
  - NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.



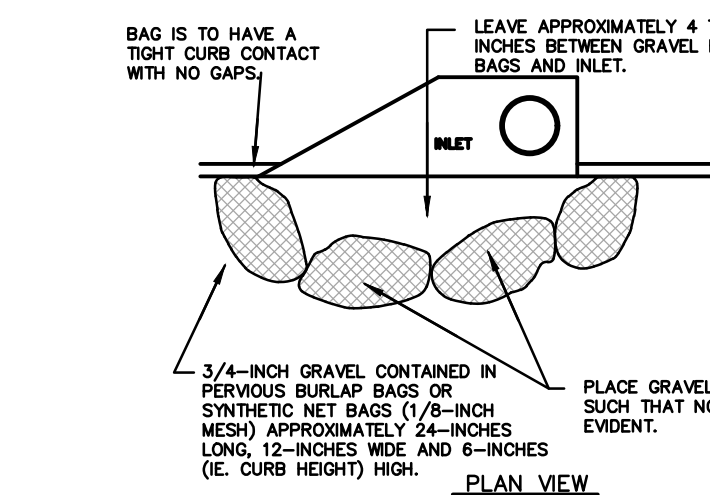
FRONT VIEW



PLAN VIEW

NOTE: IF A DOUBLE LAYER OF GRAVEL FILTER BAGS ARE USED, THE TOP BAGS MUST BE PLACED SUCH THAT NO GAPS ARE EVIDENT WITH THE LOWER LAYER OF BAGS.

NOTE: GRAVEL FILTER BAGS MAY BE USED ON PAVEMENT OR BASE GRADE.



PLAN VIEW

**2**  
GRAVEL BAG FILTER  
NOT TO SCALE

**RIGID INLET PROTECTION DEVICE  
GENERAL SPECIFICATION  
SPECIFICATION SECTION 11111**

**A. GENERAL**

**1. DESCRIPTION**

- This section of the specification describes the sediment retaining device and the associated components. The equipment shall be installed as shown on the plans, as recommended by the supplier, and in compliance with all OSHA, local, state, and federal codes and regulations.
- The number of Rigid Inlet Protection Assemblies shall be one (1) per inlet structure or as indicated on contract drawing(s). Each assembly shall include a separate Main Housing, and Fitted Filter Assembly.
- All Inlet Protection Devices must be submitted for pre-approval prior to usage.

**2. QUALITY ASSURANCE**

- Main Housing and Fitted Filter Media shall, as applicable, meet the requirements of the following industry standards:
  - American Society for Testing and Materials (ASTM) D4976-00b; Standard Specification for Polyethylene Plastic Molding and Extrusion Material.
  - ISO 868 Plastics-Determination of Indention Hardness by Means of a Durometer (Shore Hardness).
  - American Society for Testing and Materials (ASTM) D1117-99; Standard Guide for Evaluating Nonwoven Fabrics.
  - American Society for Testing and Materials (ASTM) D6193-97; Standard Practice for Stitches and Seams.
- Qualified Manufacturers shall have a minimum 3 years experience at manufacturing rigid inlet protection assemblies for use as sediment control equipment and be experienced in installation of equivalent applications. Manufacturer shall be able to provide a list of at least 20 references of installations as requested by Engineer or Owner's Representative.
- Qualified Manufacturers shall maintain sufficient inventory.

**B. PRODUCTS**

**1. ACCEPTABLE MANUFACTURERS**

- The Rigid Inlet Protection Assembly shall be manufactured by Silt-Saver, Inc and shall be Model #s (SS-100A / SS-200A) or pre-approved equivalent. Silt-Saver, Inc is located at 1401 Business Center Drive, Conyers, Georgia 30094, Toll Free (888) 382-SILT (7458). A list of Acceptable Local Area Suppliers can be obtained by contacting Silt-Saver, Inc.
- When a Manufacturer and/or Supplier of an alternate inlet protection device takes exception or requests a waiver of certain aspects of this specification, a test demonstration shall be performed to the satisfaction of the Engineer and/or Local, State or Federal Regulating Authority. The device Manufacturer and/or Supplier shall cover the costs of equipment, materials, and labor required to perform the demonstration. The test shall include, but NOT be limited to the following:
  - The ability of the inlet protection device to provide acceptable environmental protection in a wide variety of conditions and materials to be encountered.
  - Fineness and uniformity of resultant filter effluent.
  - Control system performance and repeatability.
  - Hydrostatic load test for Main Housing shall be minimum: 150-psi for 30-minutes without degradation.

**2. IDENTIFICATION**

- Each unit shall include complete identification, including but NOT limited to the following: Manufacturer name and location, telephone, web address, model and/or serial number.

**C. RIGID INLET PROTECTION ASSEMBLY**

**1. GENERAL**

- Each Rigid Inlet Protection Assembly shall consist of the following components: a) Main Housing and b) Fitted Filter Assembly.

**B. Main Housing shall be lightweight and be capable of continuous operation in all climate conditions. The Main Housing shall be manufactured with high molecular weight, high-density polyethylene copolymer. Main Housings that are not reusable and recyclable are NOT acceptable.**

- The Rigid Inlet Protection Assembly shall require no ancillary tools to assemble and shall be self-sealing adjacent to the inlet structure. To reduce risk of failure, multi-component Main Housings shall not be acceptable.
- The Fitted Filter Assembly shall provide complete coverage of Main Housing and provide 2-stage filtering capacity.
- Rigid Inlet Protection Assembly shall meet or exceed manual material handling and lifting weight limitations as outlined in the NIOSH Lifting Equation.

**2. MAIN HOUSING**

- The Main Housing shall be a solid formed high molecular weight, high-density polyethylene copolymer. The Main Housing shall be designed to meet or exceed the Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials specification section (ASTM) D4976-00B.
- The Main Housing material shall have a minimum tensile impact rating of 170 ft lbs/sq in., with a minimum tensile strength yield of 3600 psi. The Main Housing structure shall completely span and enclose the inlet structure.
- The inside profile of the Main Housing shall be cylindrical to follow the radial arc of the domed top of cover. The top of the Main Housing shall have an open area to facilitate high flow conditions: were large volumes of water must pass through at a rapid rate.
- The Main Housing peripheral frame shall consist of multiple slatted openings, providing a minimum of 6" x 4" sq. ft. open area, to facilitate filtration of the storm water during normal operational conditions.
- The Main Housing shall be self-sealing around the inlet structure, have a minimum height of 26" above the inlet structure, and have an enclosed top.

**3. FITTED FILTER ASSEMBLY**

- The Fitted Filter Assembly shall be constructed of 100% continuous polyester needle-punched non-woven engineering fabric and follow the guidelines in the American Society for Testing and Materials (ASTM) D1117-99; Standard Guide for Evaluating Nonwoven Fabrics. The Fitted Filter Assembly shall be fabricated to provide a direct fit adjacent to the associated Main Housing.

**B. Fitted Filter Assembly - Geotextile Fabric**

- The filter fabric shall have a weight on no less than 3.0 ounces per square yard.
- The filter fabric shall have a tensile strength of no less than 80 psi with an elongation at break of no less than fifty percent (50%).
- The filter fabric shall have puncture strength of no less than 42 psi.
- The filter fabric shall have a minimum U.V. rating of no less than 70% at 500 hrs.

**C. The filter fabric shall be capable of reducing effluent turbidity and concentration by no less than 90% under typical sediment migration conditions.**

**D. Fitted Filter Assembly shall be constructed with integral anti-buoyancy pockets capable of holding no less than 3.0 CF of stabilization material.**

**E. The Fitted Filter Assembly shall be constructed to form a two-stage design, stage one shall be adjacent to the perimeter of the Main Housing and convey normal flows at a minimum clean water flow rate of 100 gpm per sq. ft., stage two shall provide coarse screening across the top of the Main Housing and convey high flow rates, with a minimum apparent opening of 3/16" per sq. in. (NO.12 std sieve opening).**

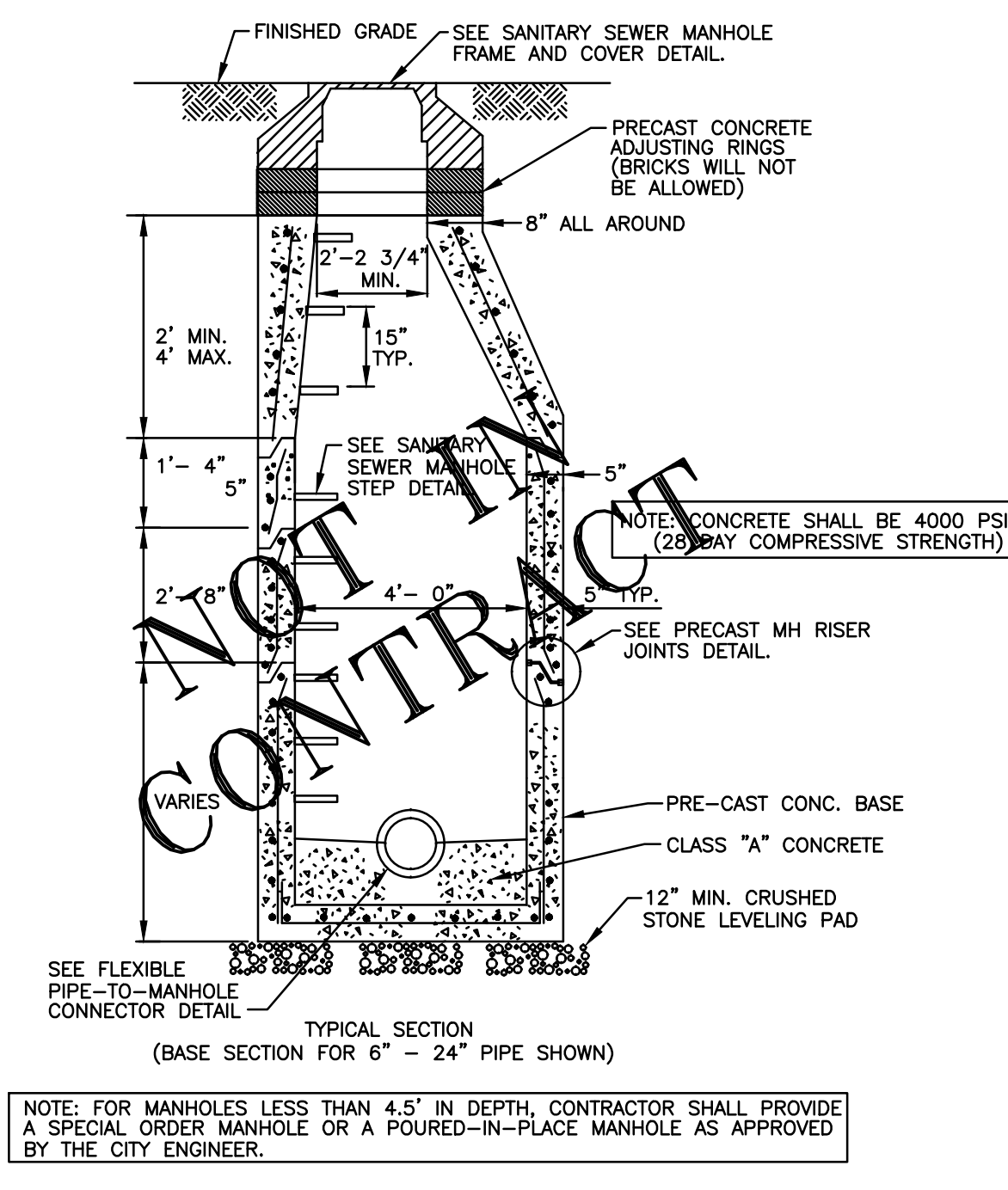
**F. All seaming of components associated with the Filter Fabric Assembly shall use a continuous over edge sew through seam using a 1580 den thread and meet American Society for Testing and Materials (ASTM) D6193-97; Standard Practice for Stitches and Seams.**

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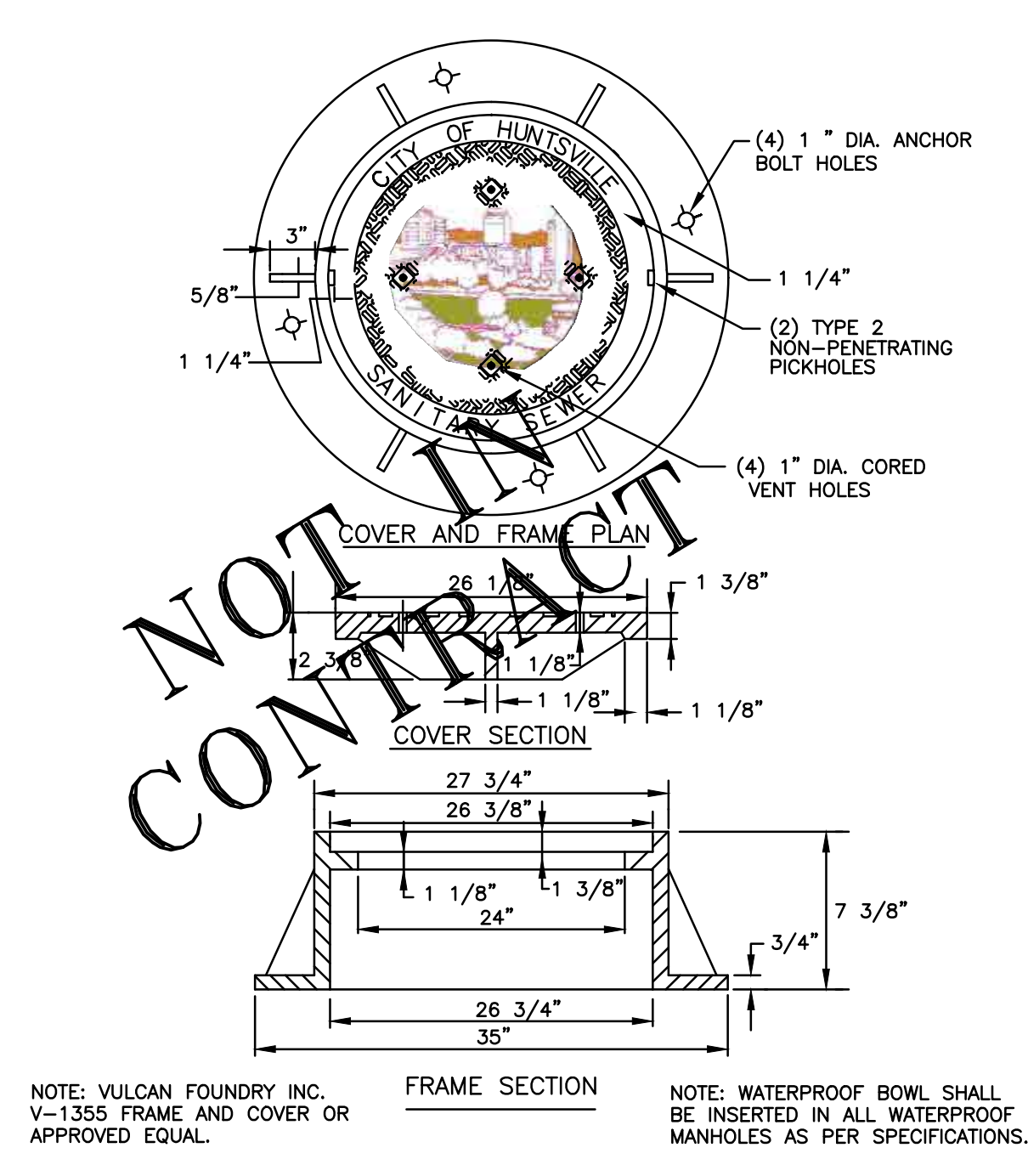


CONSTRUCTION  
DETAILS

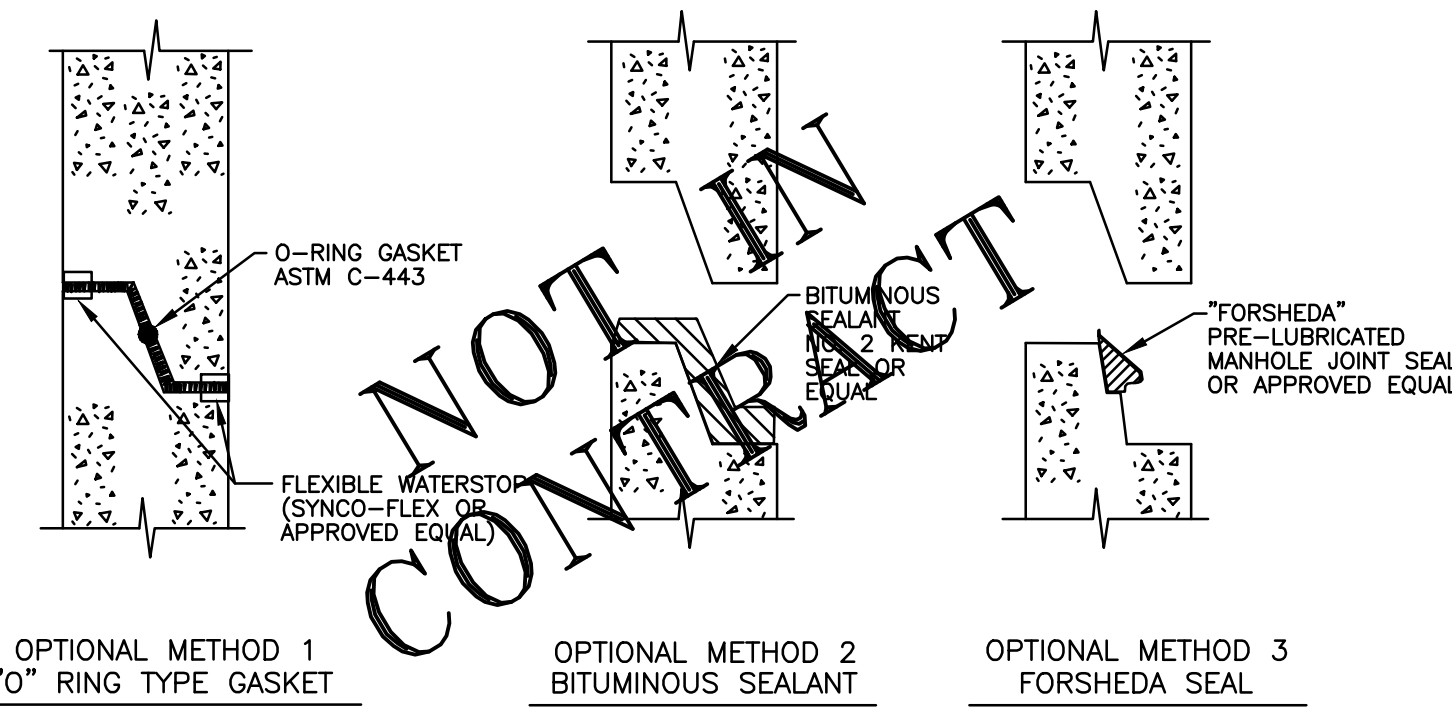
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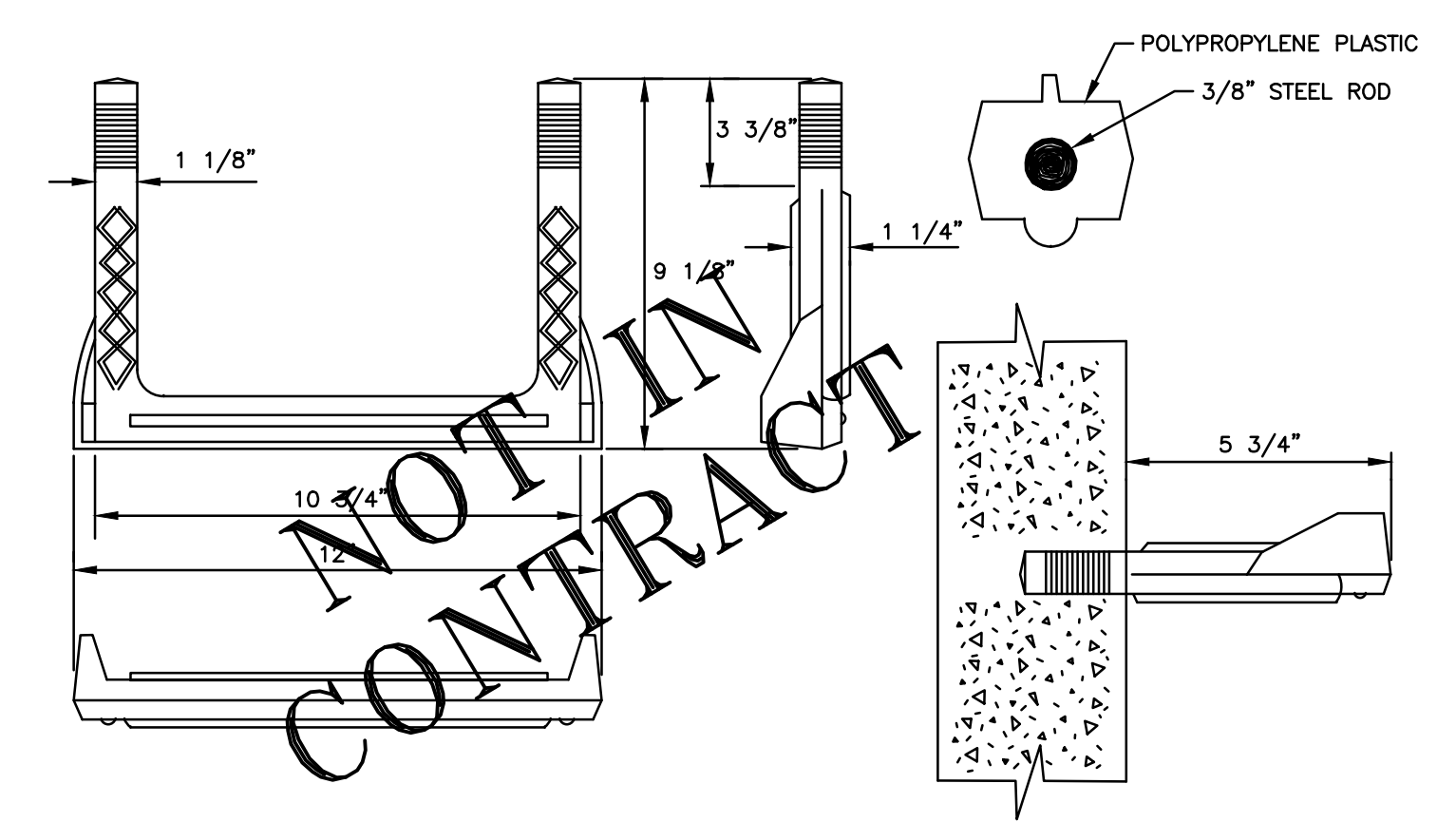
1 SANITARY SEWER MANHOLE DETAIL  
NOT TO SCALE



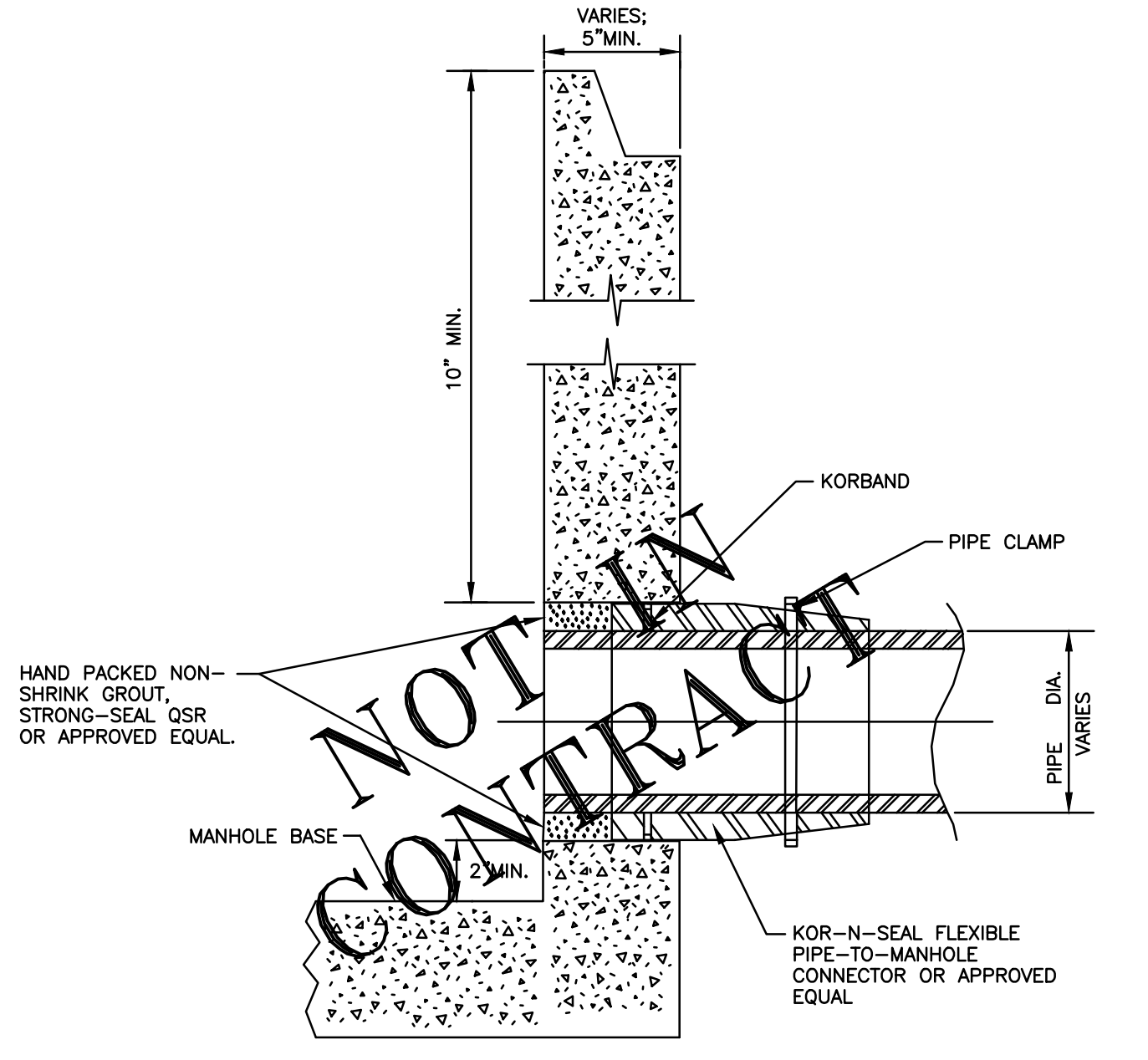
2 SANITARY SEWER MANHOLE FRAME AND COVER DETAIL  
NOT TO SCALE



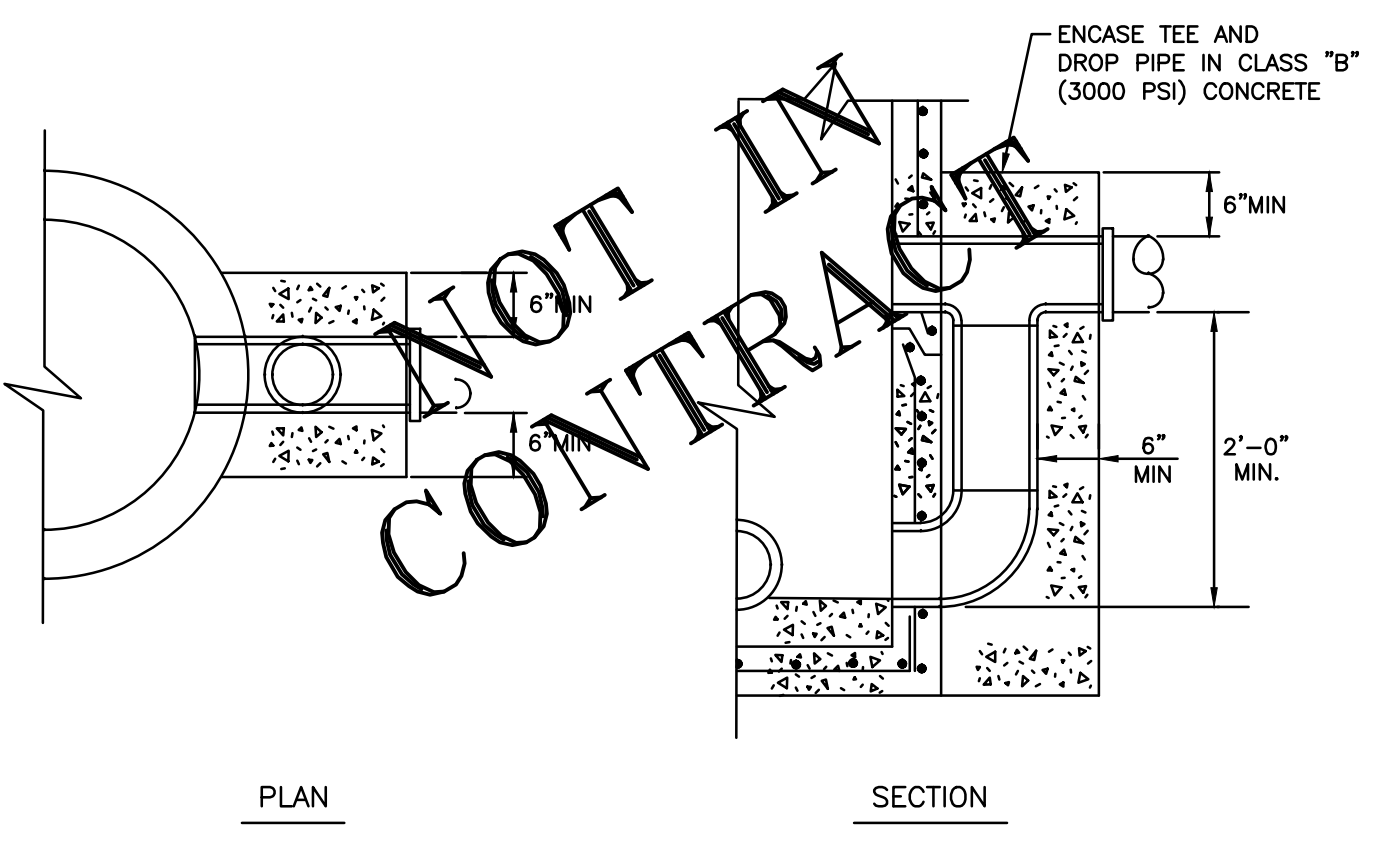
3 PRECAST MANHOLE RISER OPTIONAL JOINTS  
NOT TO SCALE



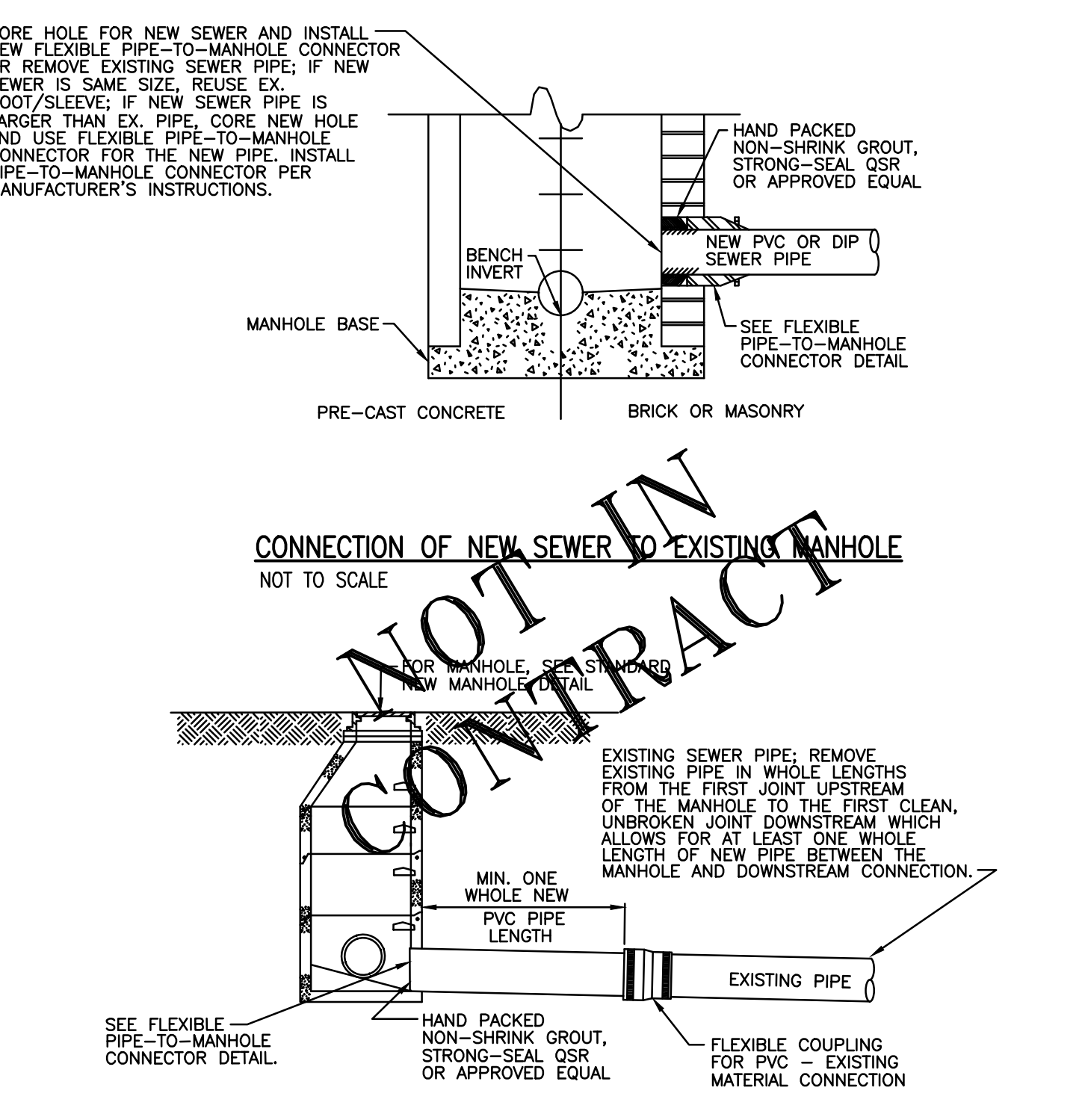
4 SANITARY SEWER MANHOLE STEP DETAIL  
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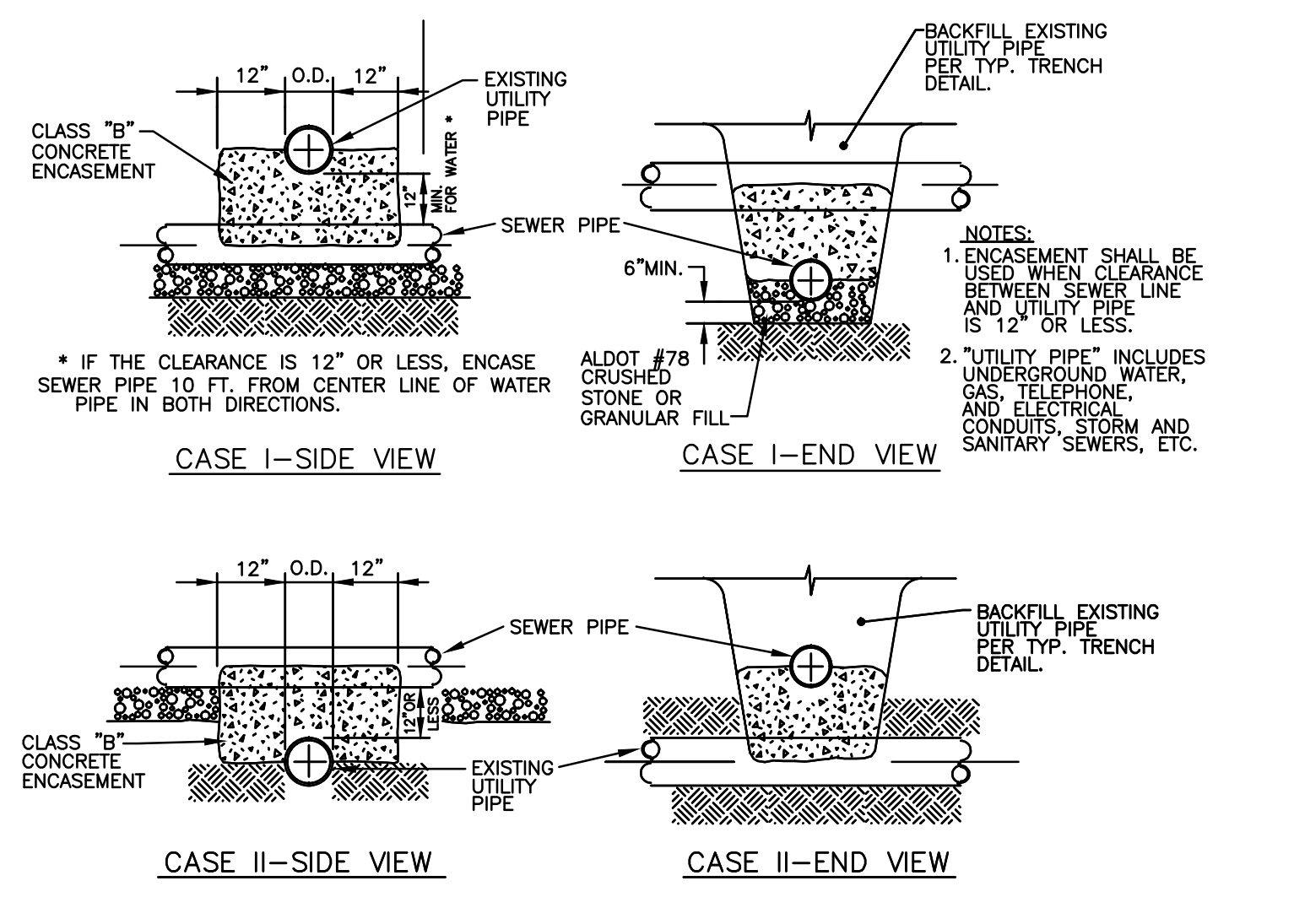
5 FLEXIBLE PIPE-TO-MANHOLE CONNECTOR DETAIL  
NOT TO SCALE



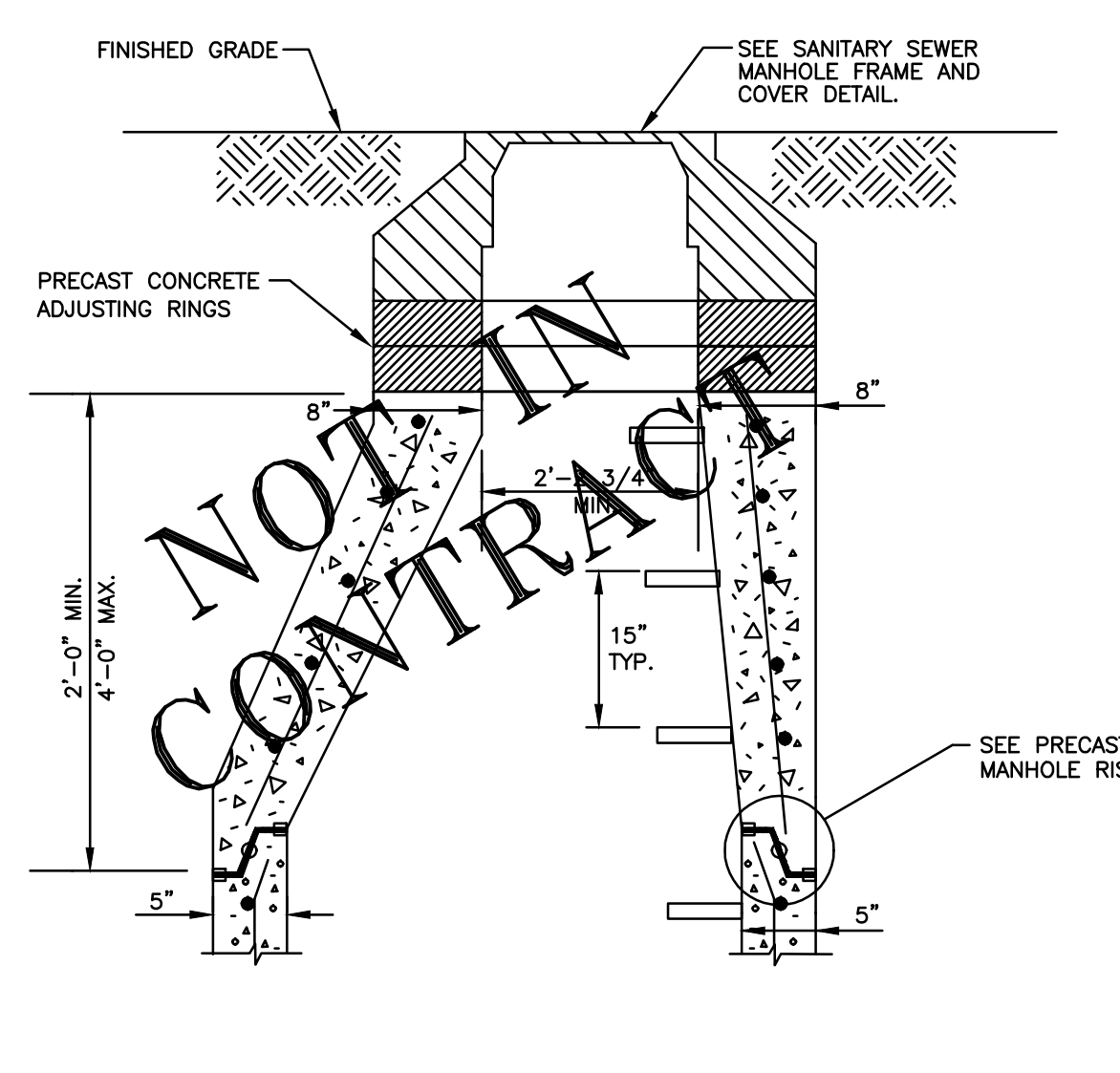
6 SANITARY SEWER MANHOLE DROP CONNECTION  
NOT TO SCALE



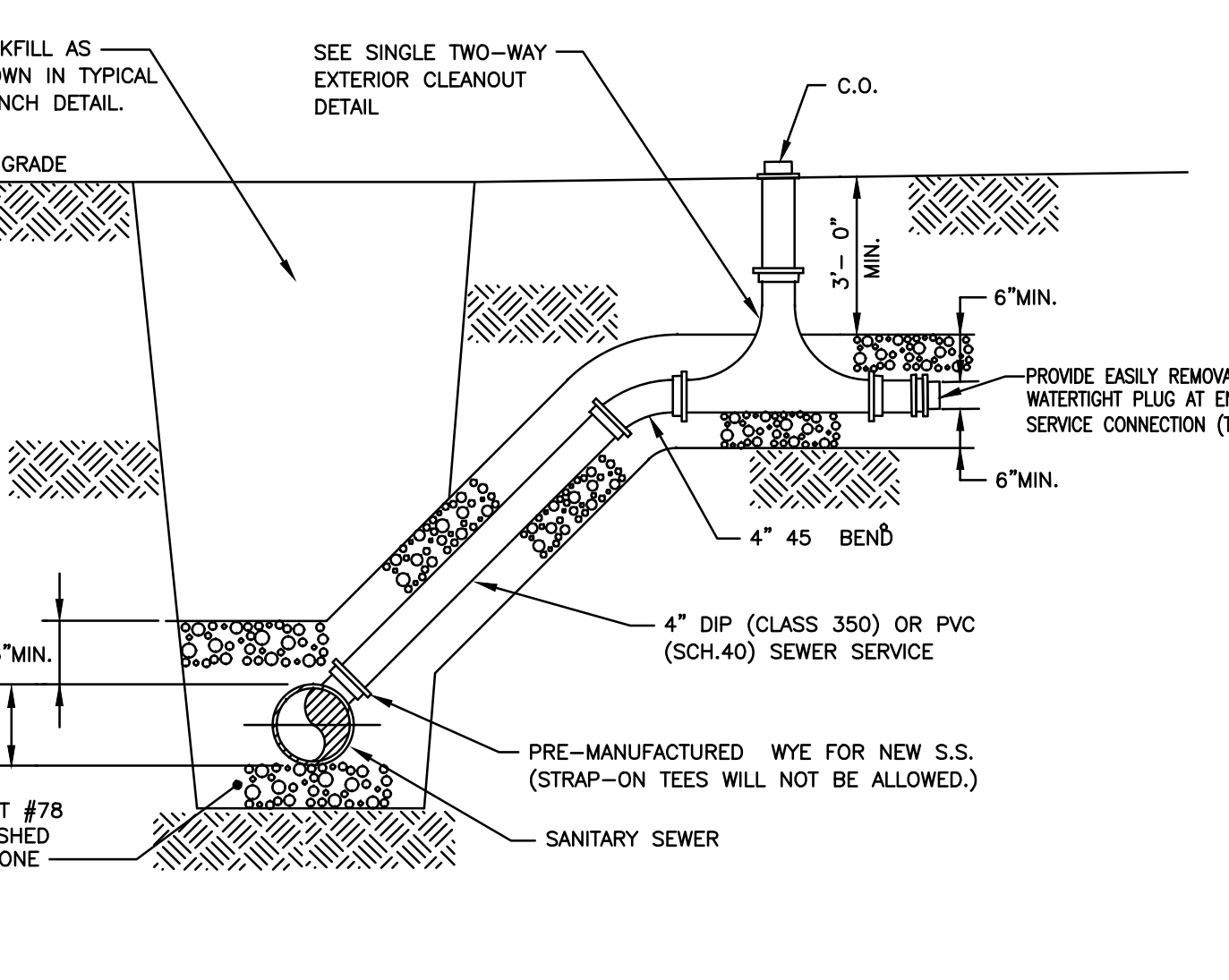
7 CONNECTION OF NEW SEWER IN EXISTING MANHOLE  
NOT TO SCALE



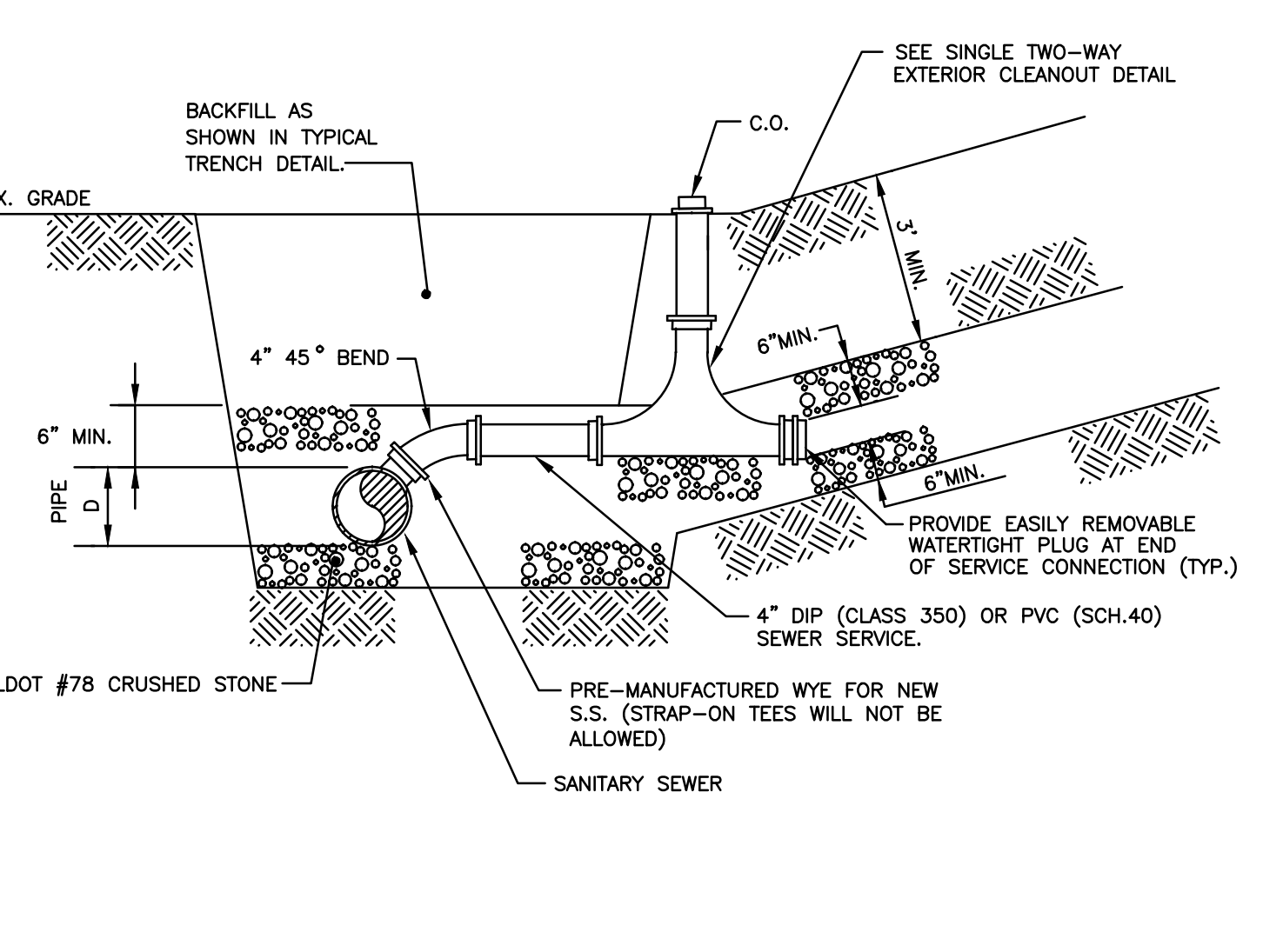
8 UTILITY CROSSING DETAILS  
NOT TO SCALE



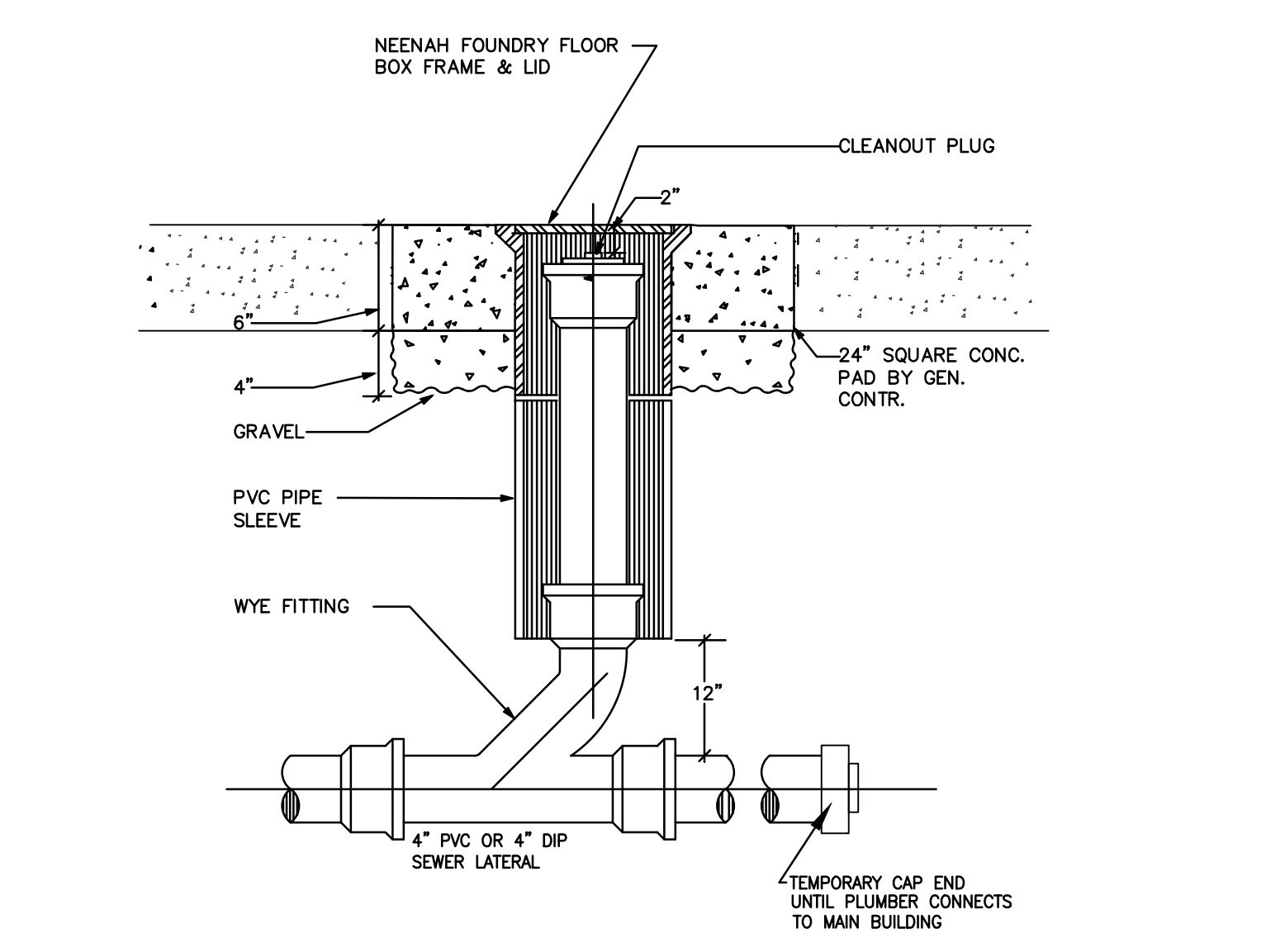
9 SANITARY SEWER MANHOLE ECCENTRIC TOP  
NOT TO SCALE



10 SERVICE CONNECTION FOR DEEP SEWER (MORE THAN 6')  
NOT TO SCALE



11 SERVICE CONNECTION FOR SHALLOW SEWER (6' OR LESS)  
NOT TO SCALE



12 OUTDOOR CLEANOUT DETAIL  
NOT TO SCALE

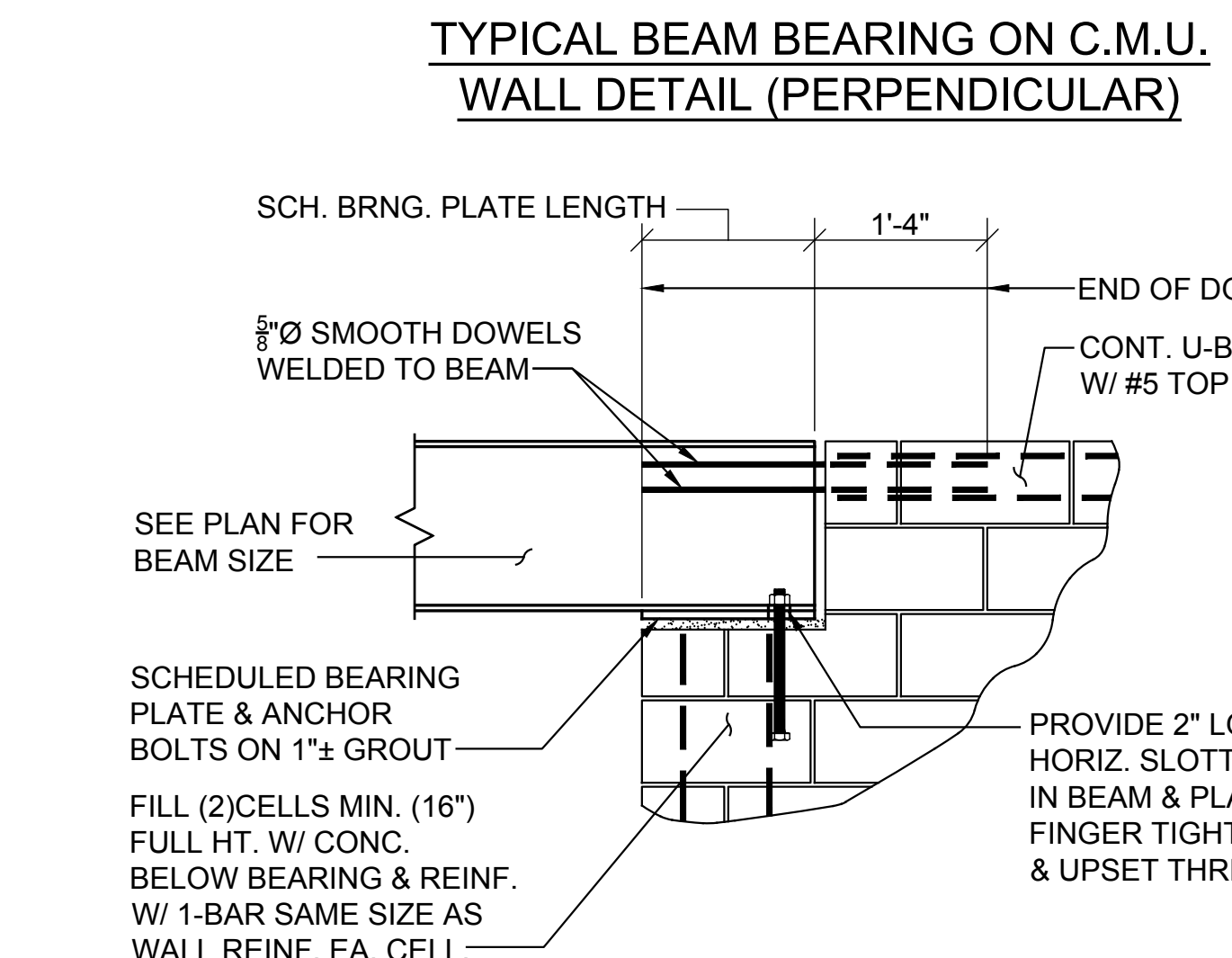
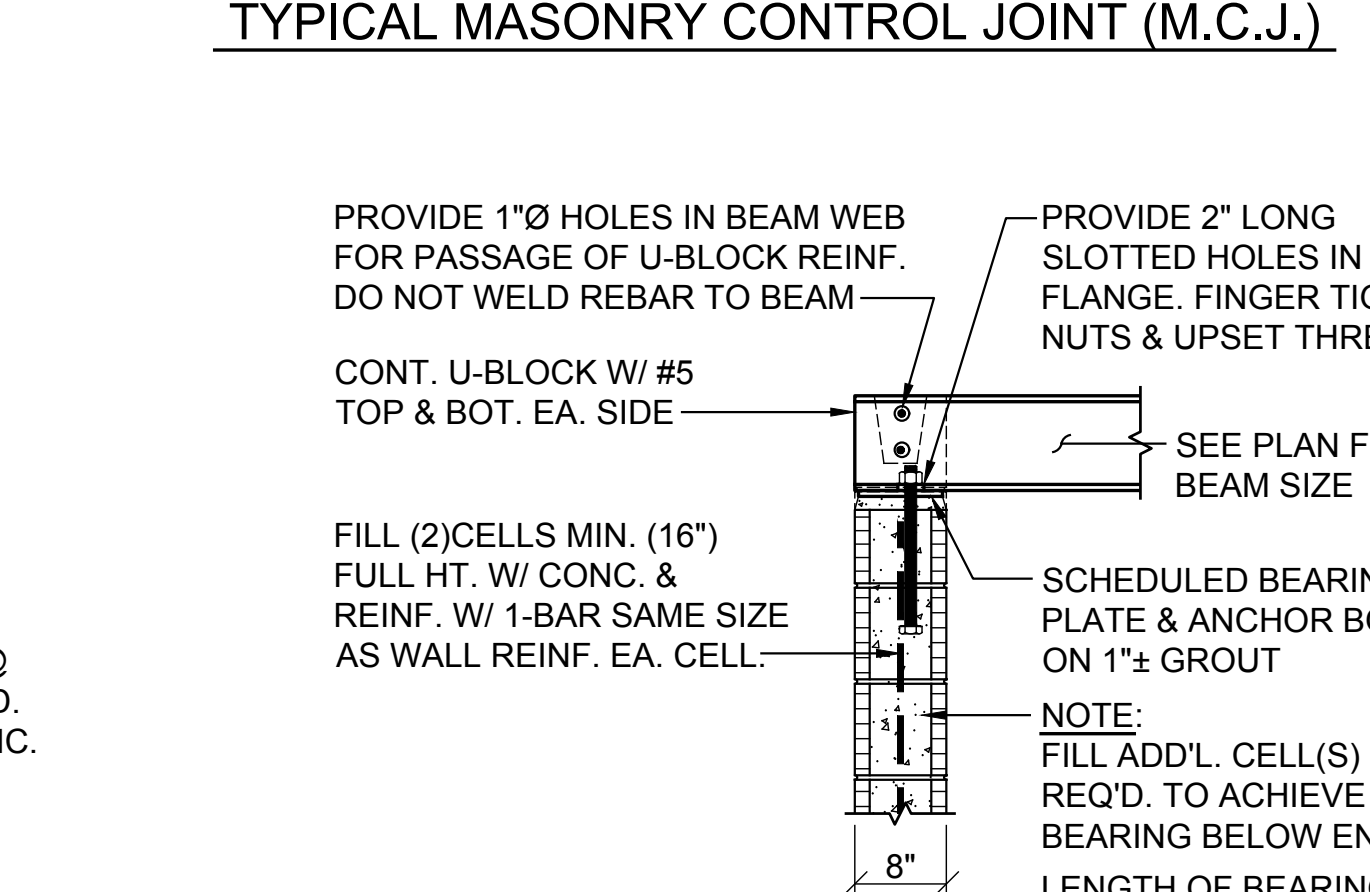
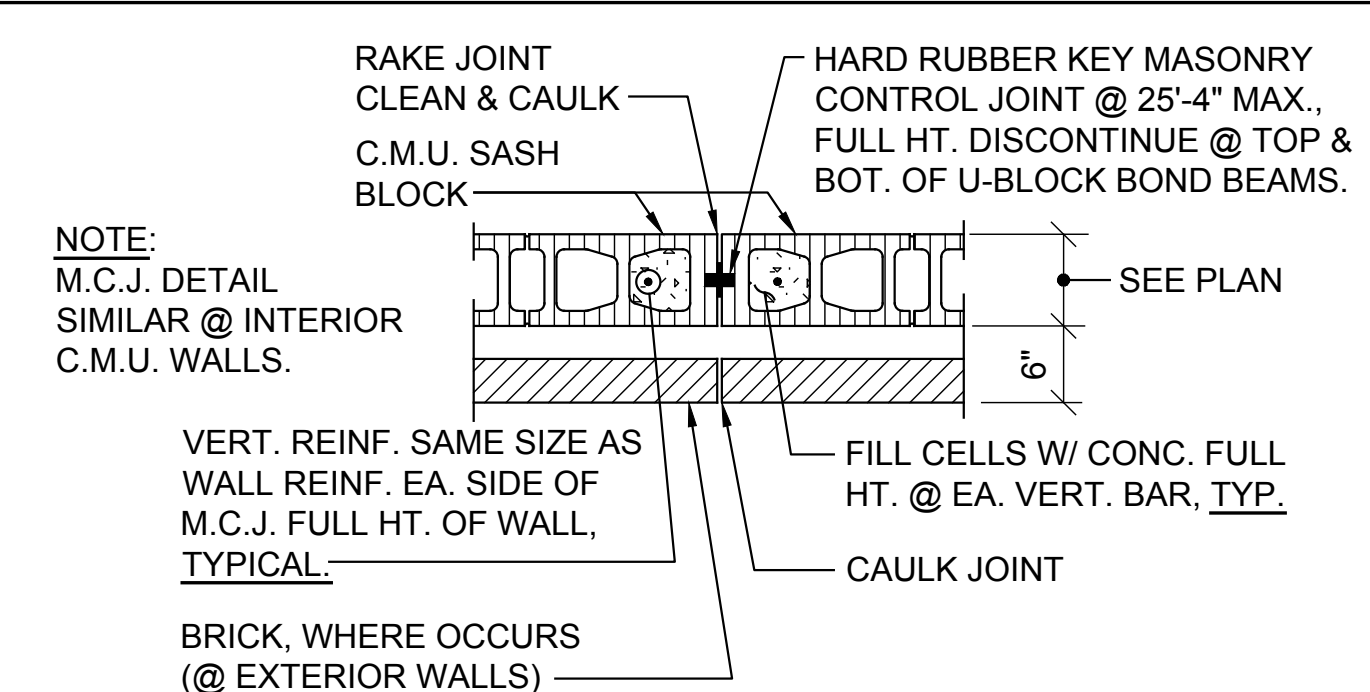
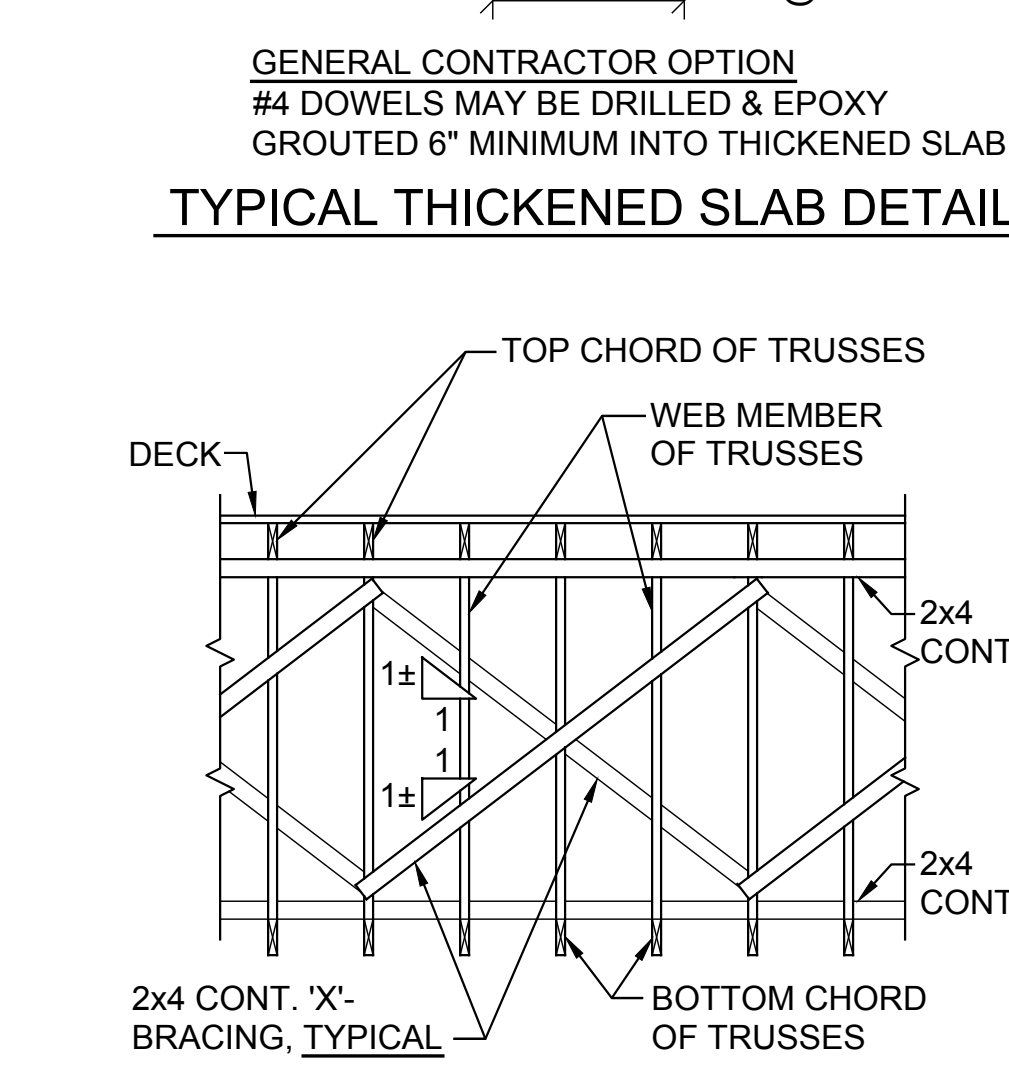
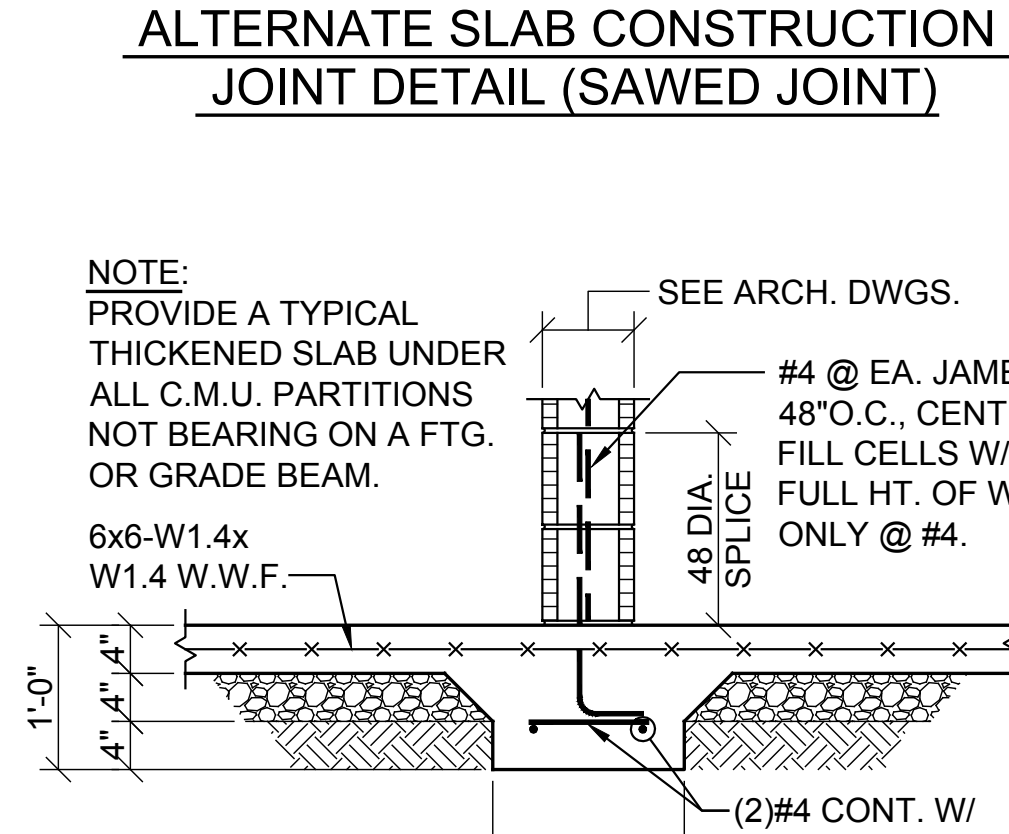
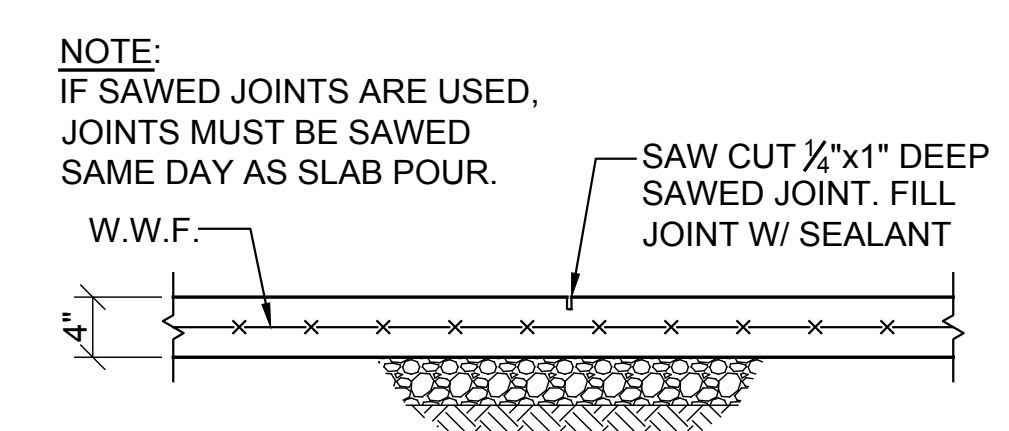
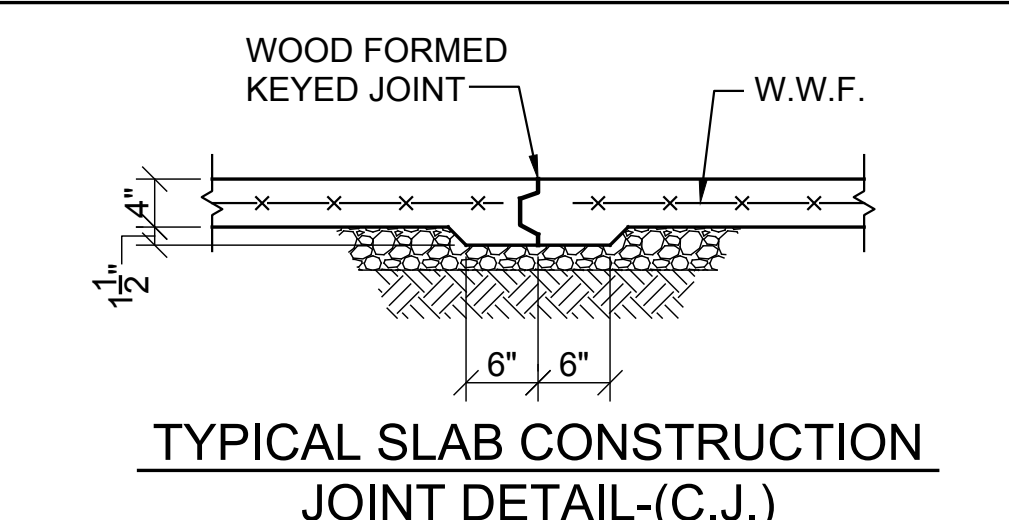
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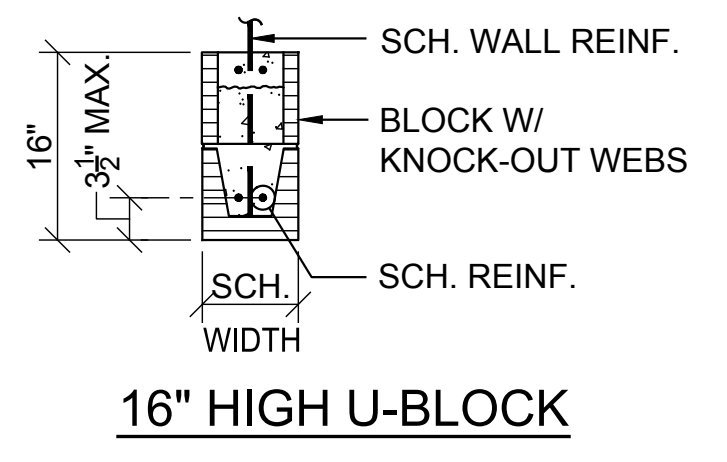
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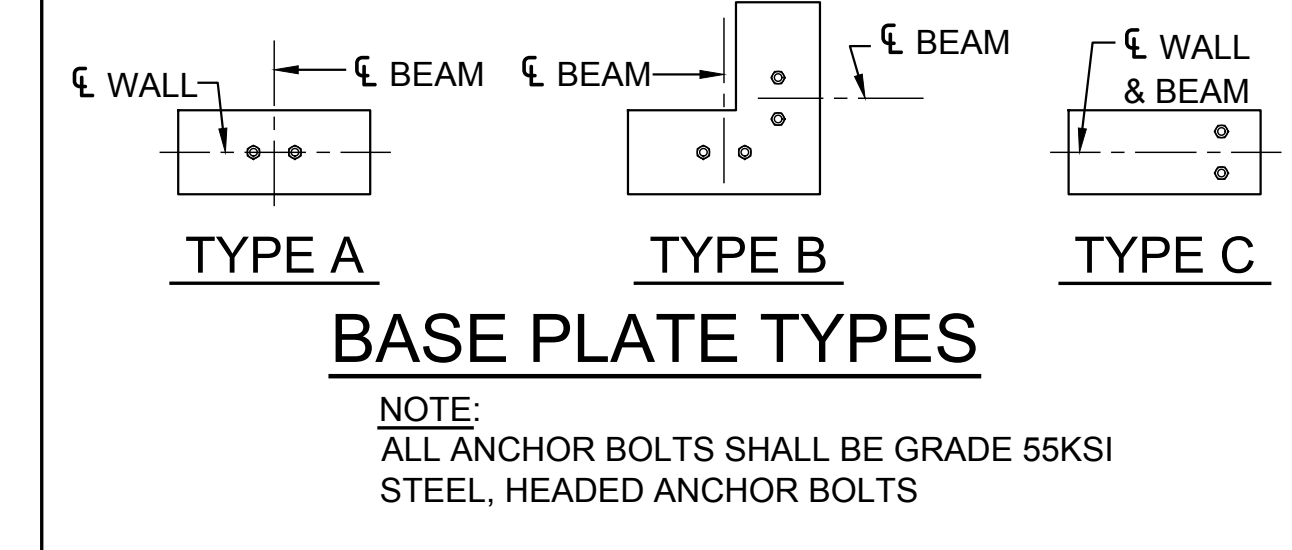


LINTEL SCHEDULE					
MARK OR LOCATION	MAX. SPAN	TYPE	SIZE	REINFORCEMENT	REMARKS
8"C.M.U.	4'-0"	U-BLOCK	8x16x8	#5 TOP & BOT.	8" HI U-BLOCK
8"C.M.U.	6'-0"	U-BLOCK	8x16x16	(2)#5 TOP & BOT.	16" HI U-BLOCK
BRICK	4'-0"	STEEL ANGLE	4x4x1/2		BEAR 8" EA. END
BRICK	6'-0"	STEEL ANGLE	6x4x3/8		BEAR 8" EA. END, L.L.V.

- NOTES:**
- BEAR 8" HIGH U-BLOCKS 8" EACH END & 16" HIGH U-BLOCKS 16" EACH END.
  - FILL CELLS W/ CONCRETE FULL HEIGHT @ U-BLOCK BEARING, FOR ENTIRE LENGTH OF BEARING. REINF. EA. CELL W/ BAR SAME SIZE AS WALL REINFORCING FULL HT. OF WALL. VERTICAL REINFORCING SHALL BE CONT. THRU LINTEL @ BEARING.
  - FILL CELLS OF U-BLOCK LINTEL TO FULL HT. IN ONE POUR.



BEARING & BASE PLATE SCHEDULE			
MARK	BASE R SIZE	R TYPE	ANCHOR BOLT NO. & SIZE
BP-1	3/4"x11"x16"	A	(2)3/8"x14" HEADED
BP-2	3/4"x7"x16"x16"	B	(4)3/8"x14" HEADED
BP-3	3/4"x11"x16"	C	(2)3/8"x14" HEADED
BP-4	3/4"x7"x16"	C	(2)3/8"x14" HEADED

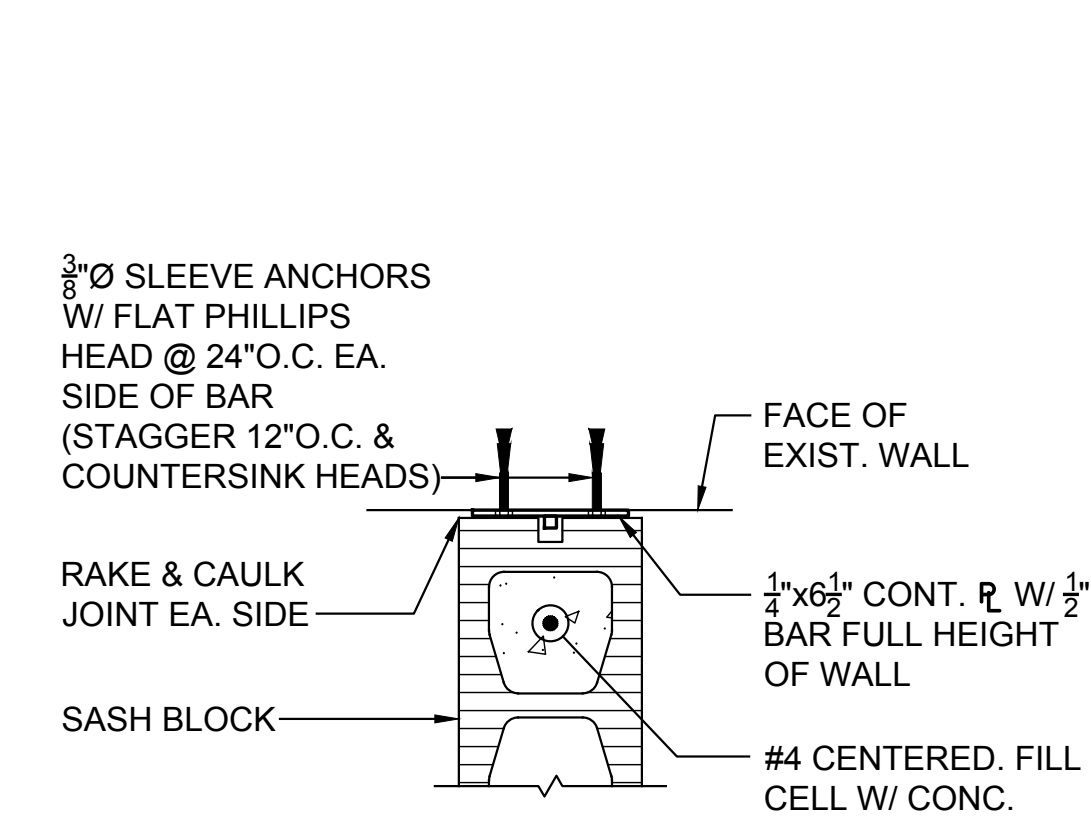


- FOUNDATION:**
- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
  - ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
  - FOOTINGS WERE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING OF P = 2000 PSF. ALLOWABLE SOIL BEARING SHALL BE VERIFIED BY TESTING AGENCY PRIOR TO FOOTINGS BEING POURED.
  - ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
  - ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
  - DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
  - PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
  - IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
  - DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
  - BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
  - BACK FILL BEHIND ALL RETAINING WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.

- CONCRETE:**
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F<sub>c</sub> = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
  - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
  - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A1064.
  - UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS): FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
  - LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.
  - PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
  - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
  - DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.

- MASONRY:**
- PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
  - WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
  - CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".
  - CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F<sub>c</sub> = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME.
  - ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
  - UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
  - PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
  - PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING.
  - PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
  - ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
  - VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED - DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.

- STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION (EXCEPT STEEL JOISTS AND TUBE SECTIONS).
  - STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, F<sub>y</sub> = 48.0 KSI.
  - HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (F<sub>u</sub> = 65 KSI).
  - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
  - THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
  - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM.
  - CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE.
  - FOR DBL-ANGLE CONNECTIONS, MIN ANGLE THICKNESS SHALL BE 5/16" FOR 3/4 INCH DIAMETER BOLTS AND 3/8" FOR 7/8 INCH DIAMETER BOLTS AND LARGER.
  - UNLESS SHOWN OTHERWISE PROVIDE 1/2 X 7 1/2 X 7 1/2 BEARING PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.



TYPICAL CONDITION WHERE NEW C.M.U. ABUTS EXISTING WALL

- GENERAL NOTES:**
- WOOD FRAMING: ALL WOOD FRAMING MEMBERS SHALL BE STRESS RATED AND GRADE MARKED.
  - FRAMING MEMBERS EXCEPT STUDS SHALL BE NO. 2, KILN DRIED, SOUTHERN YELLOW PINE OR APPROVED EQUAL.
  - PROVIDE PREFABRICATED WOOD TRUSSES WHERE INDICATED ON PLAN.
  - ALL TRUSSES SHALL BE DESIGNED AND MANUFACTURED TO MEET THE FOLLOWING WORKING LOADS AND CODES. MINIMUM LOADS: ROOF LIVE LOAD.....20 PSF. ROOF DEAD LOAD.....15 PSF. CEILING LOAD.....10 PSF.
  - CONNECTORS SHALL MEET THE SPECIFICATIONS OF THE TRUSS PLATE INSTITUTE AND SHALL BE SANFORD, GANG-NAIL, TEMPLIN OR EQUAL.
  - MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR EACH TYPE TRUSS. DESIGNS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF ALABAMA. SIZES OF MEMBERS MAY BE CHANGED AS ALLOWED OR REQUIRED BY THE GRADE OF LUMBER USED EXCEPT THAT ALL TOP CHORDS AND BOTTOM CHORDS SHALL BE 2X6 MINIMUM.
  - PROVIDE CAMBER IN ALL TRUSSES.
  - PROVIDE VERTICAL WEB MEMBERS TO ACCOMMODATE TRUSS VERTICAL X-BRACING (SEE PLAN FOR LOCATIONS).
  - IN ADDITION TO THE "X" BRACING SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL PROVIDE ALL BRACING REQUIRED BY THE TRUSS MANUFACTURER. THE DESIGN OF BRACING FOR INDIVIDUAL TRUSS MEMBERS INCLUDING CONTINUOUS BRACING SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGN ENGINEER AND HE SHALL SHOW THE SIZES OF THIS BRACING ON THE SHOP DRAWINGS INCLUDING ALL END ANCHORAGE DETAILS FOR CONTINUOUS BRACING.
  - AFTER ALL FRAMING HAS BEEN ERECTED, THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A WRITTEN STATEMENT STATING HE HAS INSPECTED THE FRAMING AND THAT ALL BRACING SHOWN ON THE SHOP DRAWINGS HAS BEEN INSTALLED IN ACCORDANCE WITH THE SHOP DRAWINGS.
  - ANCHOR ALL TRUSSES, JOISTS, AND RAFTERS TO SUPPORTS WITH GALVANIZED FRAMING ANCHORS.
  - HURRICANE ANCHORS SHOWN ON DRAWINGS ARE MINIMUM REQUIRED. PROVIDE ADDITIONAL ANCHORS AND/OR DIFFERENT TYPES OF ANCHORS AS REQUIRED TO RESIST NET UPLIFT IN ACCORDANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS. TRUSS MANUFACTURER SHALL INDICATE REQUIRED ANCHORAGE ON SHOP DRAWINGS.
  - ALL NAILS, ANCHOR BOLTS, AND OTHER STEEL ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. PROVIDE A SEPARATOR (OR EQUIVALENT) AS REQUIRED BETWEEN ALL PRESSURE TREATED WOOD AND OTHER METAL FRAMING.
  - UNLESS NOTED OTHERWISE ATTACH PLYWOOD ROOF DECK WITH 10d NAILS @ 6" O.C. AT SUPPORTED EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

- DESIGN LIVE LOADS:**
- ROOF.....20 PSF.  
RISK CATEGORY (PER IBC 2015/ASCE 7-10).....III  
INTERNATIONAL BUILDING CODE (PER ASCE 7-10)  
ULTIMATE DESIGN WIND SPEED (V<sub>ult</sub>).....120 MPH  
NOMINAL DESIGN WIND SPEED (V<sub>50</sub>).....93 MPH  
WIND EXPOSURE.....C  
INTERNAL PRESSURE COEFFICIENTS.....+/-0.18  
SEISMIC.....INTERNATIONAL BUILDING CODE (PER ASCE 7-10)  
SEISMIC IMPORTANCE FACTOR.....I=1.25  
MAPPED SPECTRAL ACCELERATION (SHORT-TERM), S<sub>s</sub>=0.249g  
MAPPED SPECTRAL ACCELERATION (1-SECOND), S<sub>1</sub>=0.116g  
SITE CLASS.....D  
SHORT-PERIOD SPECTRAL RESPONSE ACCEL.....S<sub>ds</sub>=0.266g  
1-SECOND SPECTRAL RESPONSE ACCEL.....S<sub>d1</sub>=0.180g  
SEISMIC DESIGN CATEGORY.....C  
SEISMIC FORCE-RESISTING SYSTEM.....CMU SHEAR WALLS  
DESIGN BASE SHEAR (ULTIMATE).....292k  
SEISMIC RESPONSE COEFFICIENT.....C<sub>s</sub>=0.146  
RESPONSE MODIFICATION FACTOR.....R=3.5  
ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)

- SNOW.....INTERNATIONAL BUILDING CODE**  
GROUND SNOW LOAD.....P<sub>g</sub>=10 PSF
- COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES (NON-SHELTER AREAS):**  
NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES. SEE FIGURE 30.5-1 OF ASCE 7-10 FOR INDICATED ZONES.
- ROOF: TRIBUTARY AREA A = 10 SF  
ZONE 1: -34.3 PSF/21.6 PSF  
ZONE 2: -59.7 PSF/21.6 PSF  
ZONE 3: -89.2 PSF/21.6 PSF  
ROOF: TRIBUTARY AREA A = 100 SF  
ZONE 1: -31.1 PSF/15.2 PSF  
ZONE 2: -43.8 PSF/15.2 PSF  
ZONE 3: -69.3 PSF/15.2 PSF  
WALL: TRIBUTARY AREA A = 10 SF  
ZONE 4: -40.6 PSF/37.5 PSF  
ZONE 5: -50.2 PSF/37.5 PSF  
WALL: TRIBUTARY AREA A = 50 SF  
ZONE 4: -36.7 PSF/33.6 PSF  
ZONE 5: -42.4 PSF/33.6 PSF  
WALL: TRIBUTARY AREA A = 100 SF  
ZONE 4: -35.0 PSF/31.8 PSF  
ZONE 5: -38.9 PSF/31.8 PSF  
CORNER ZONE = 8.4 FT

- SPECIAL INSPECTIONS:**  
ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.
- SEISMIC REQUIREMENTS FOR SPECIAL INSPECTIONS:**  
1. THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS SEISMIC SYSTEMS AND/OR PART OF THE SEISMIC-FORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND PROJECT SPECIFICATIONS:  
ROOF DIAPHRAGM SYSTEM AND ATTACHMENT (INCLUDING TRUSS X-BRACING)  
TRUSS ANCHORAGE TO CMU WALLS  
LOAD-BEARING CMU (SHEAR) WALLS  
SHEAR WALL ANCHORAGE TO FOUNDATION  
THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2015, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
2. OTHER ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS SEISMIC SYSTEMS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.

A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

MORGAN COUNTY BOARD OF EDUCATION

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MCKEE and ASSOCIATES ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833

07-01-22

SHEET TITLE : GEN. NOTES SCHEDULES TYP. DETAILS

JOB NO. : Project Number

DRAWN BY : R. Casey

ISSUE DATE : 7-01-2022

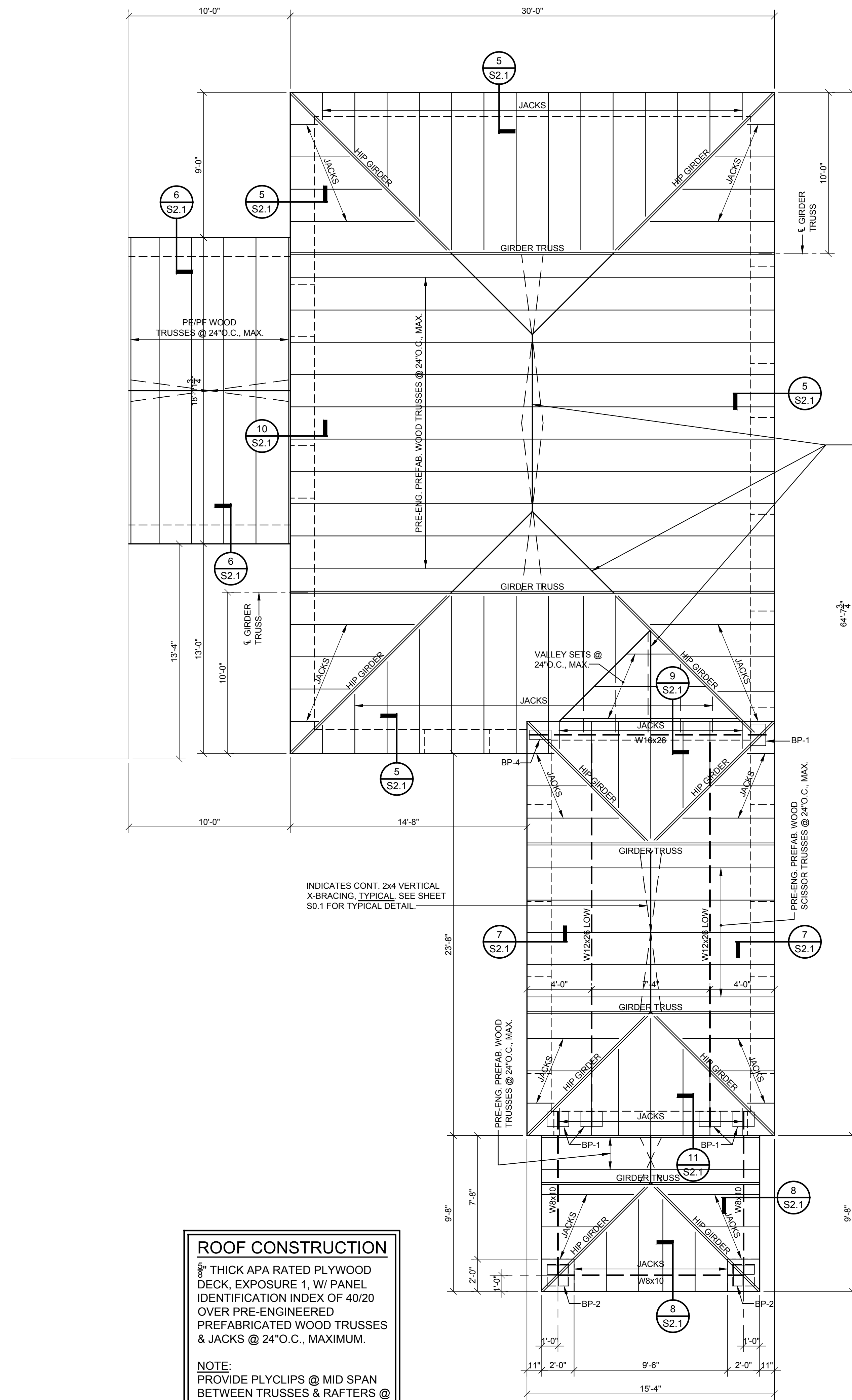
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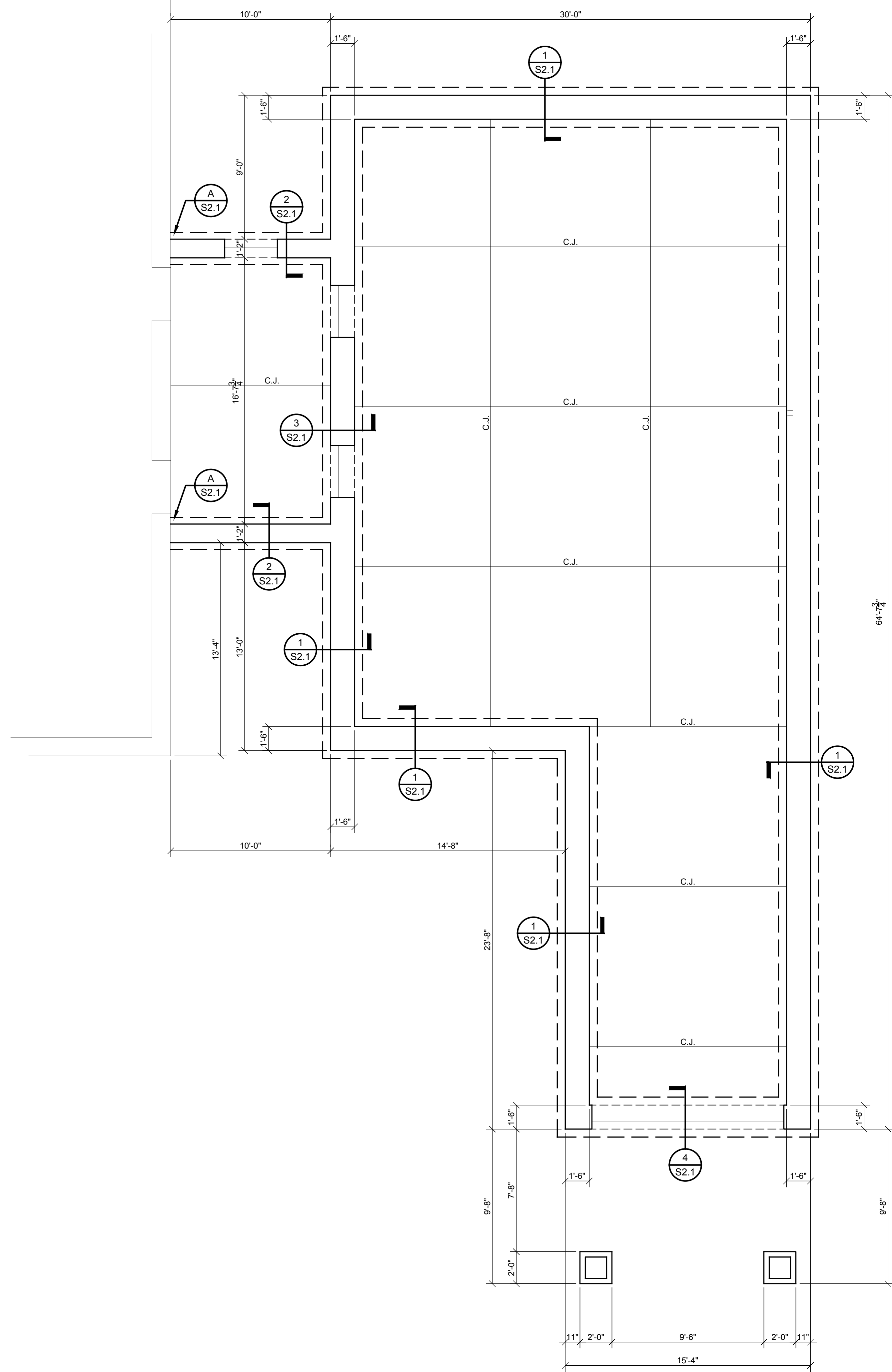
SHEET NO. : S0.1





**ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

NOTE:  
PROVIDE 2x4 BLOCKING BETWEEN TOP CHORDS OF TRUSSES @ ALL HIP, VALLEYS, & RIDGES FOR DECK SUPPORT, WHERE NOT SUPPORTED BY OTHER FRAMING. TYP. (PROVIDE BLOCKING EACH SIDE OF RIDGE @ RIDGE VENTS.)



**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

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07-01-22

SHEET TITLE : FDN. & ROOF FRAMING PLANS

JOB NO. : Project Number

DRAWN BY : R. Casey

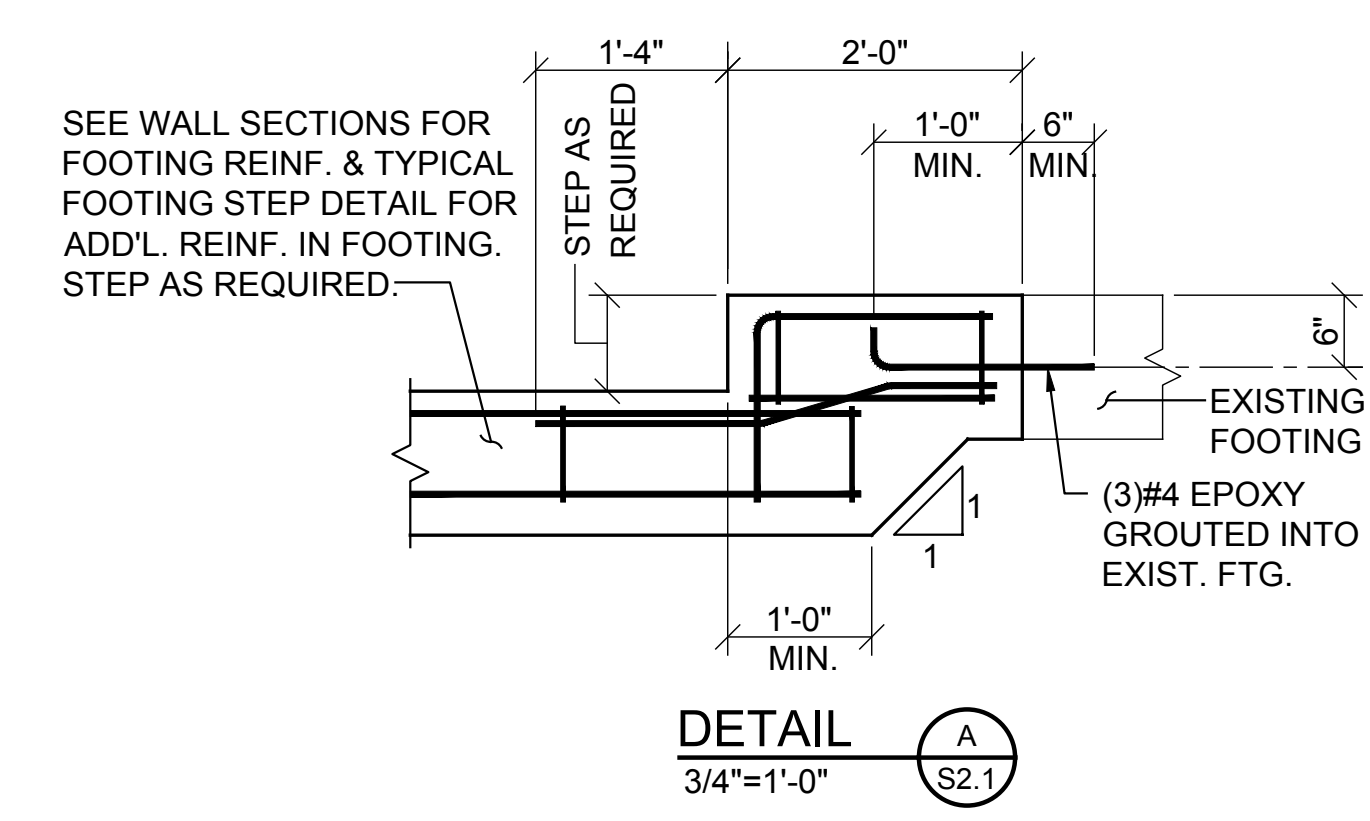
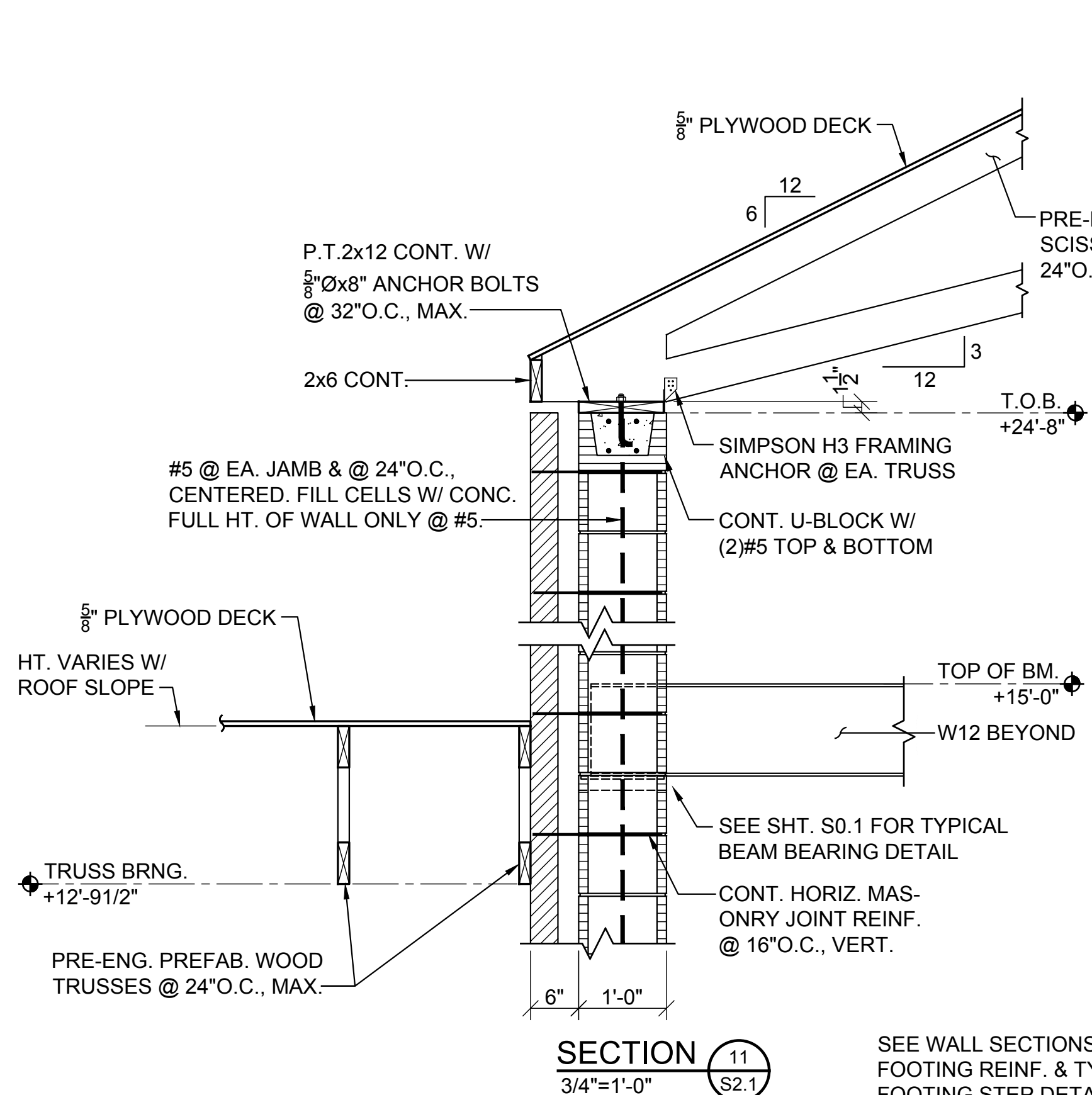
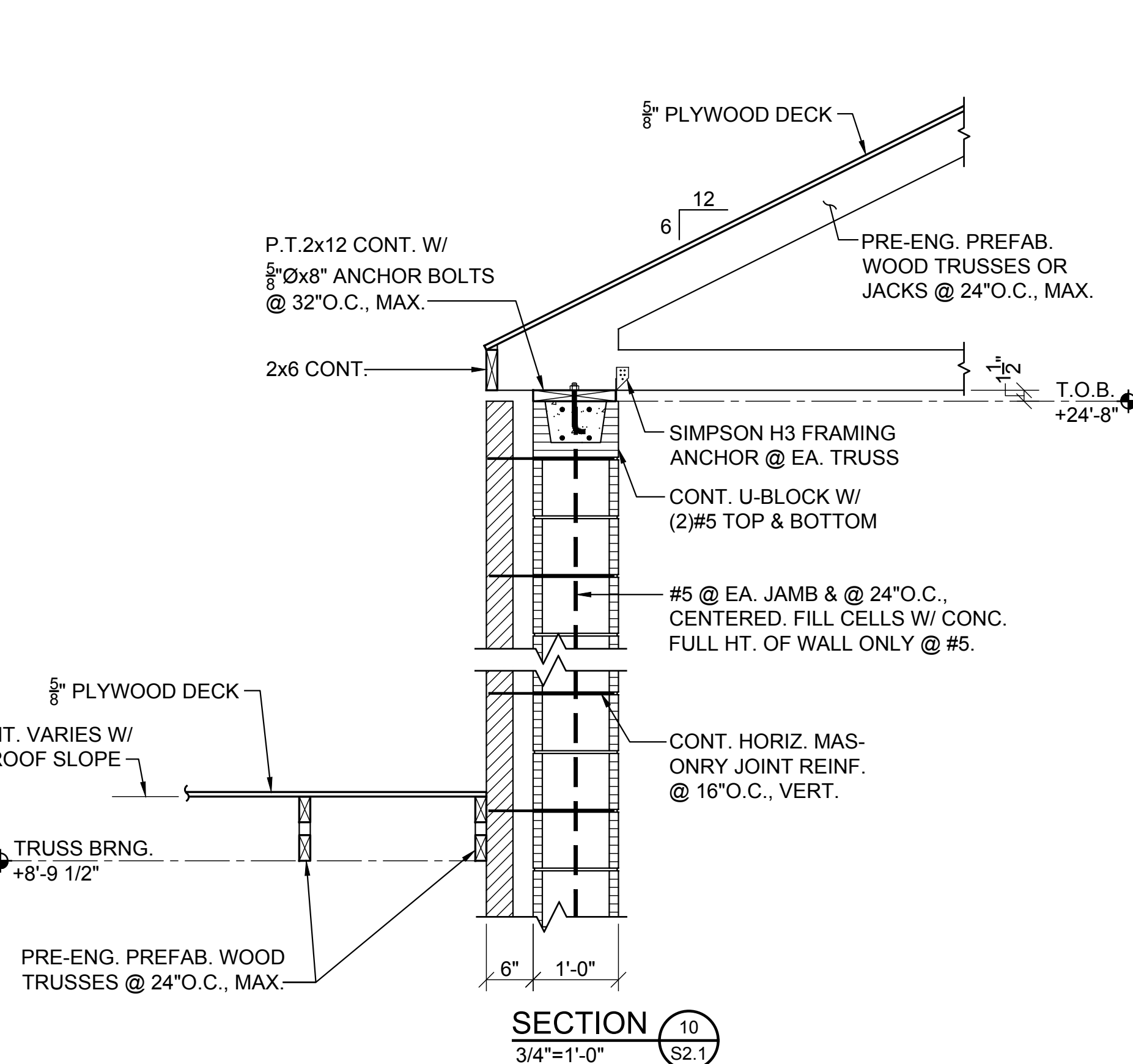
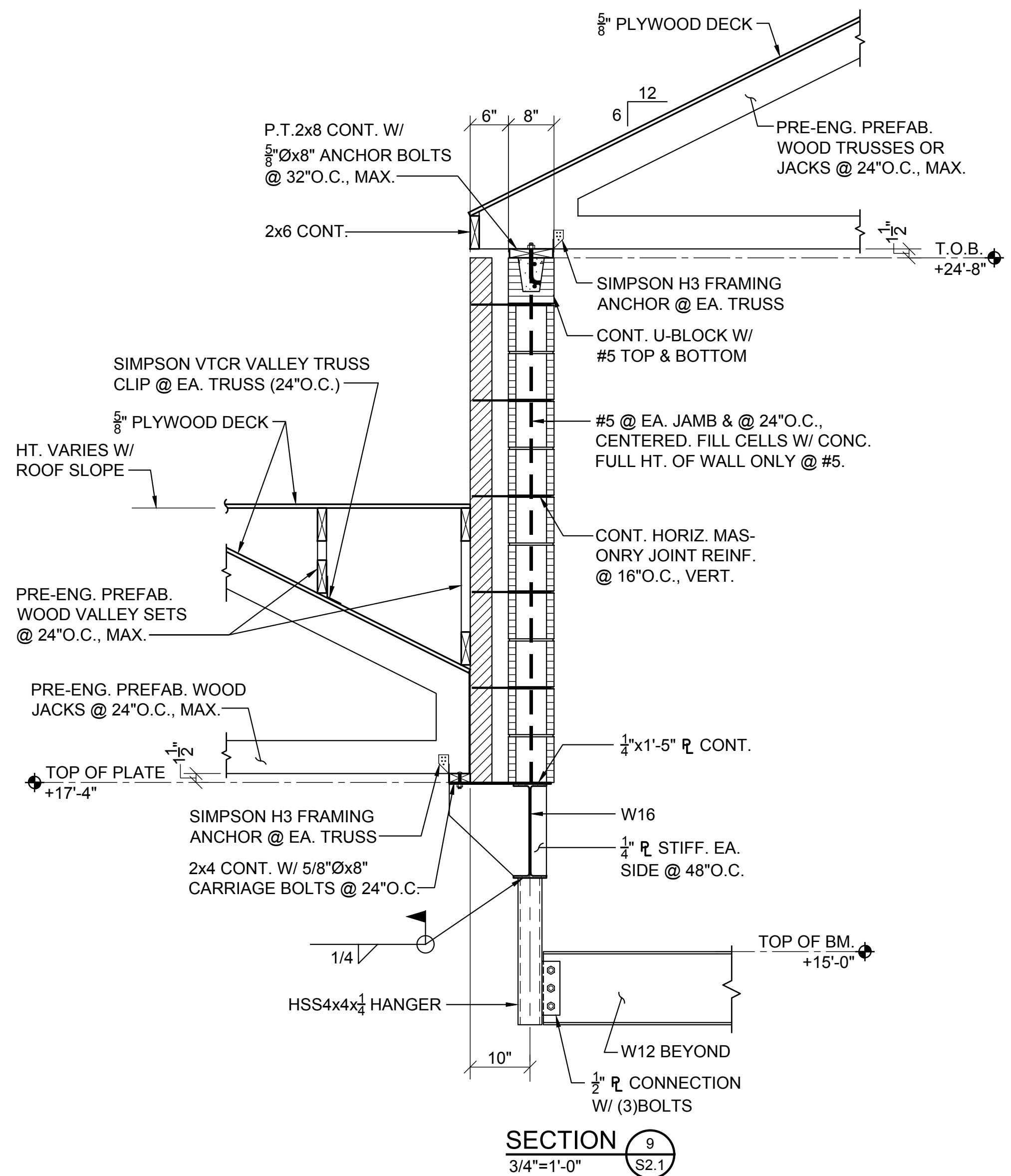
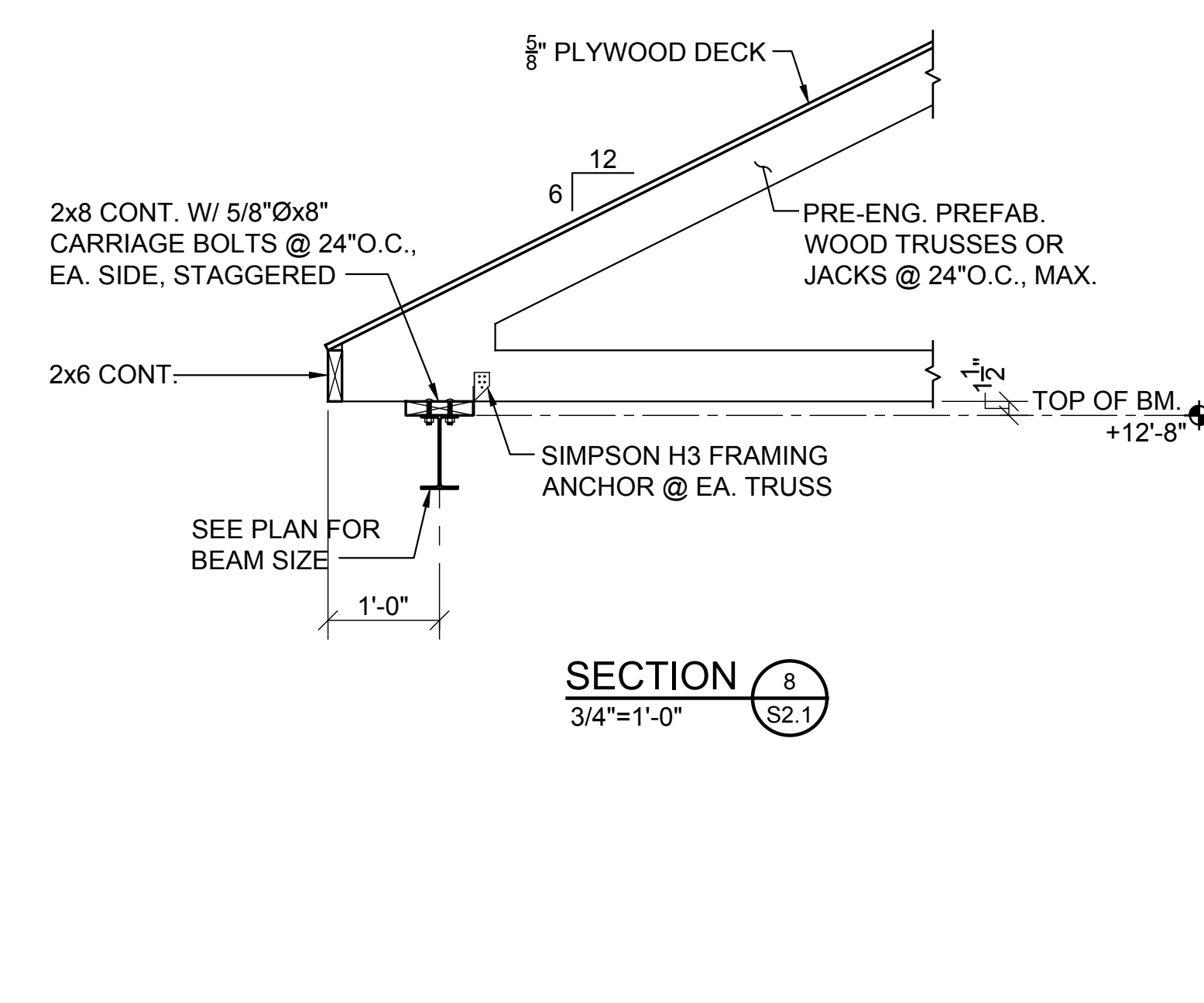
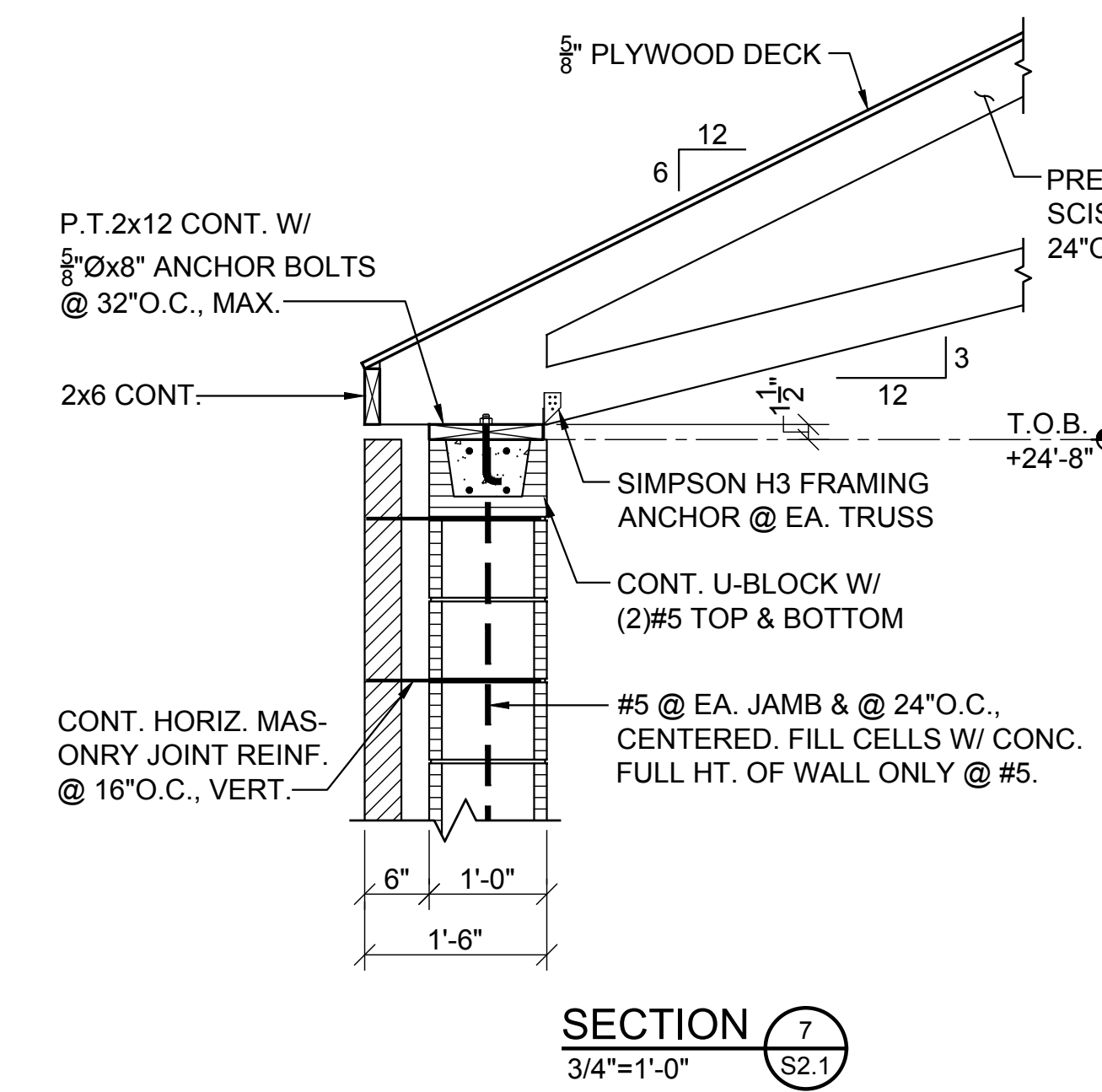
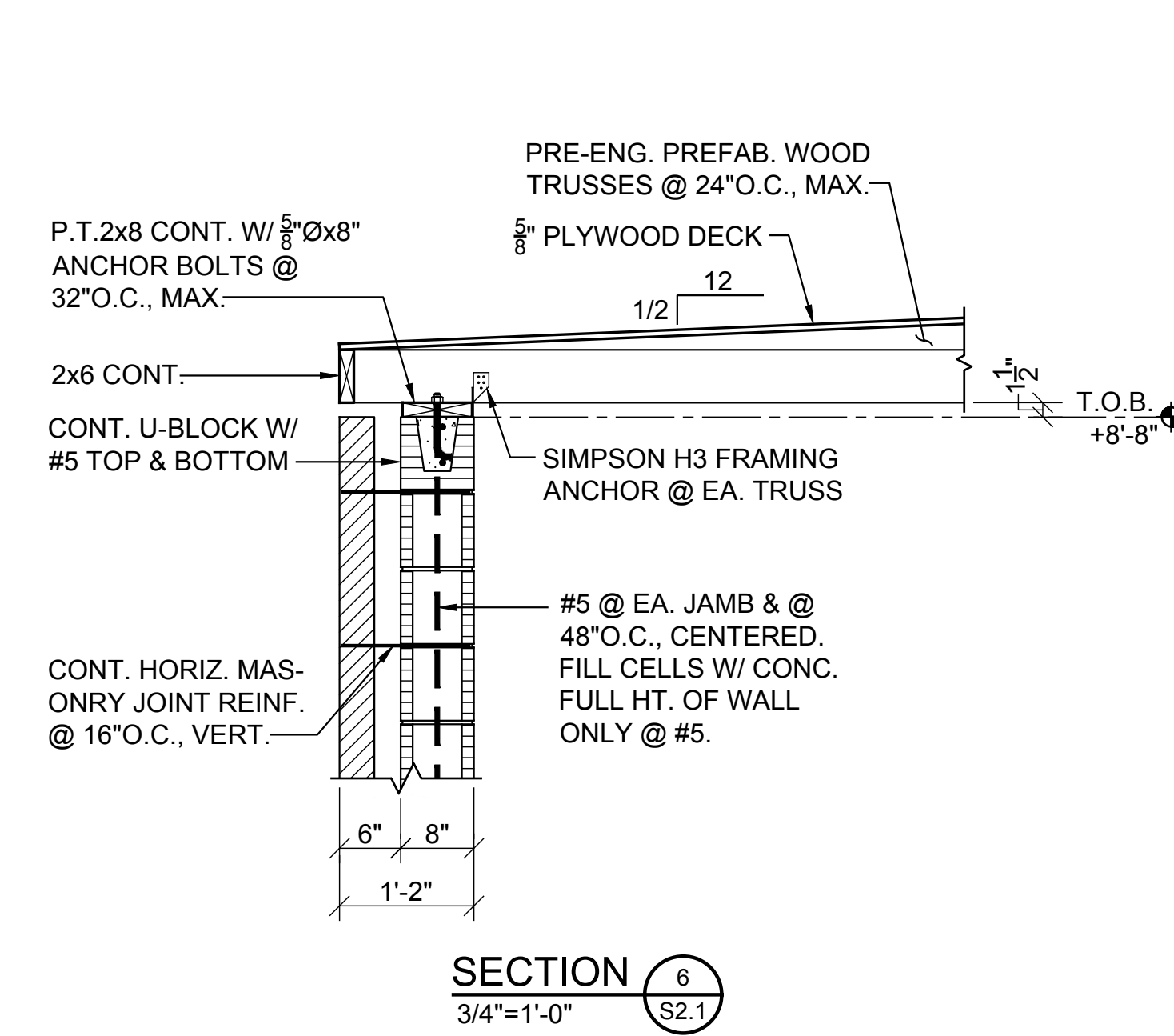
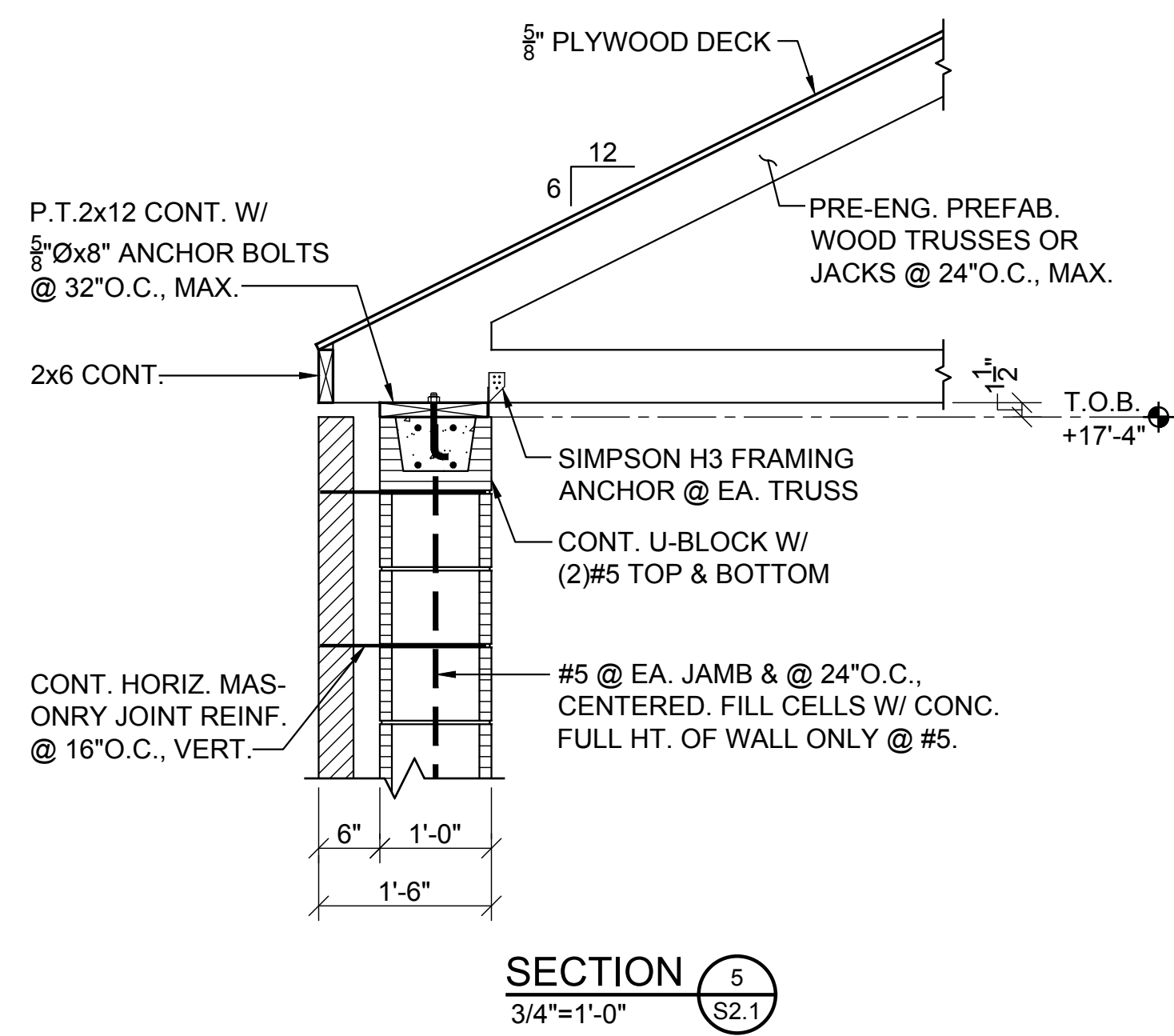
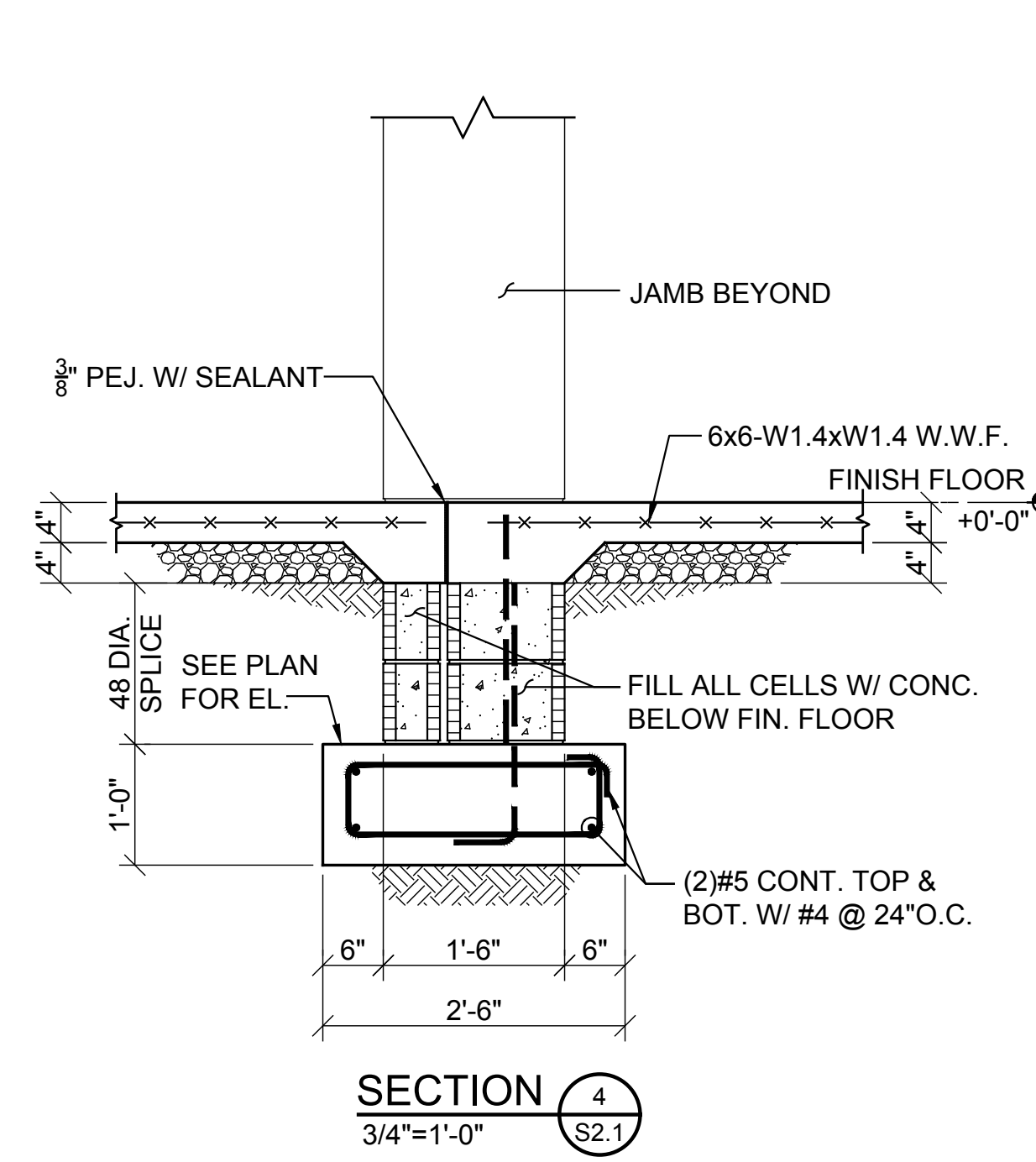
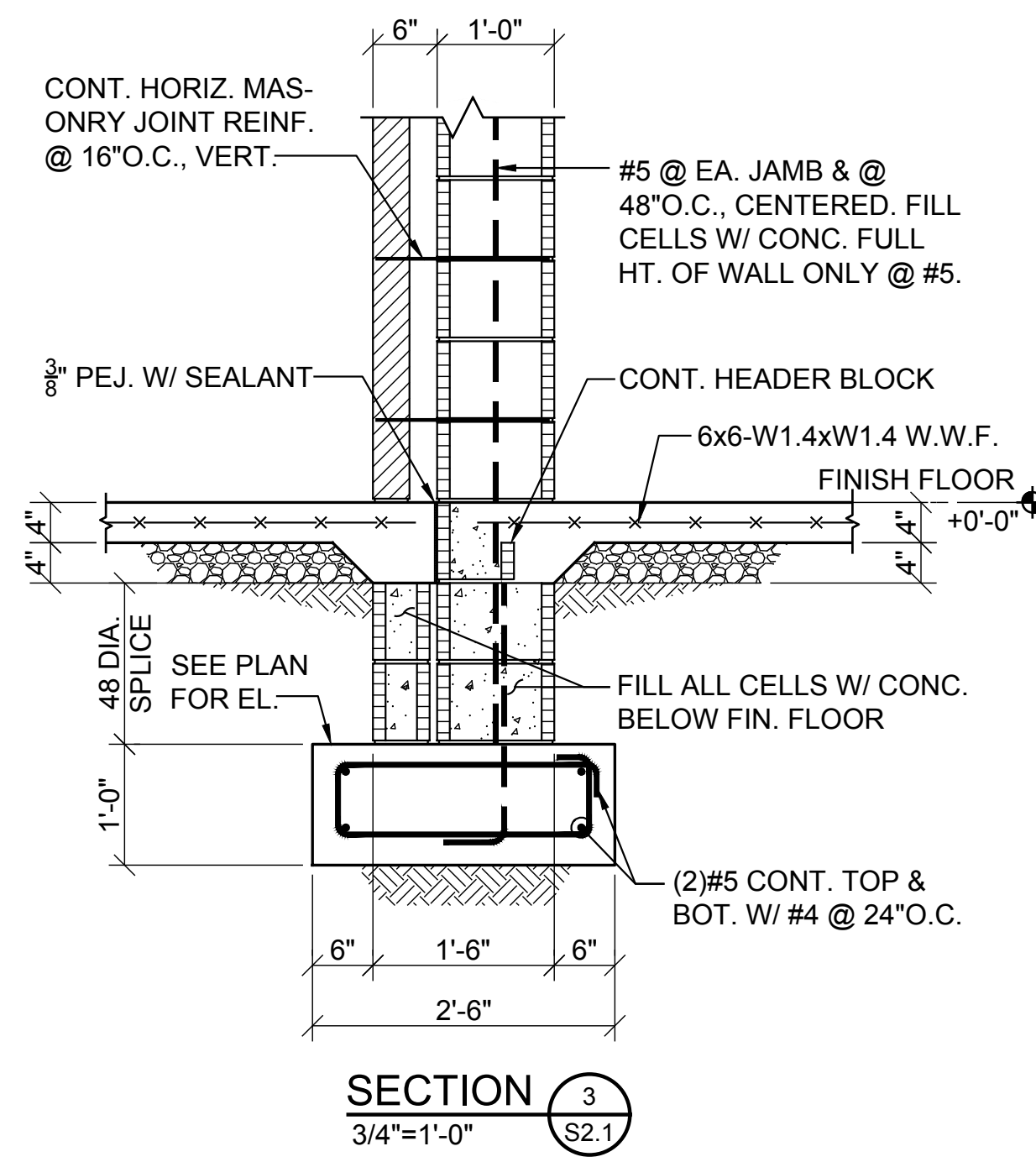
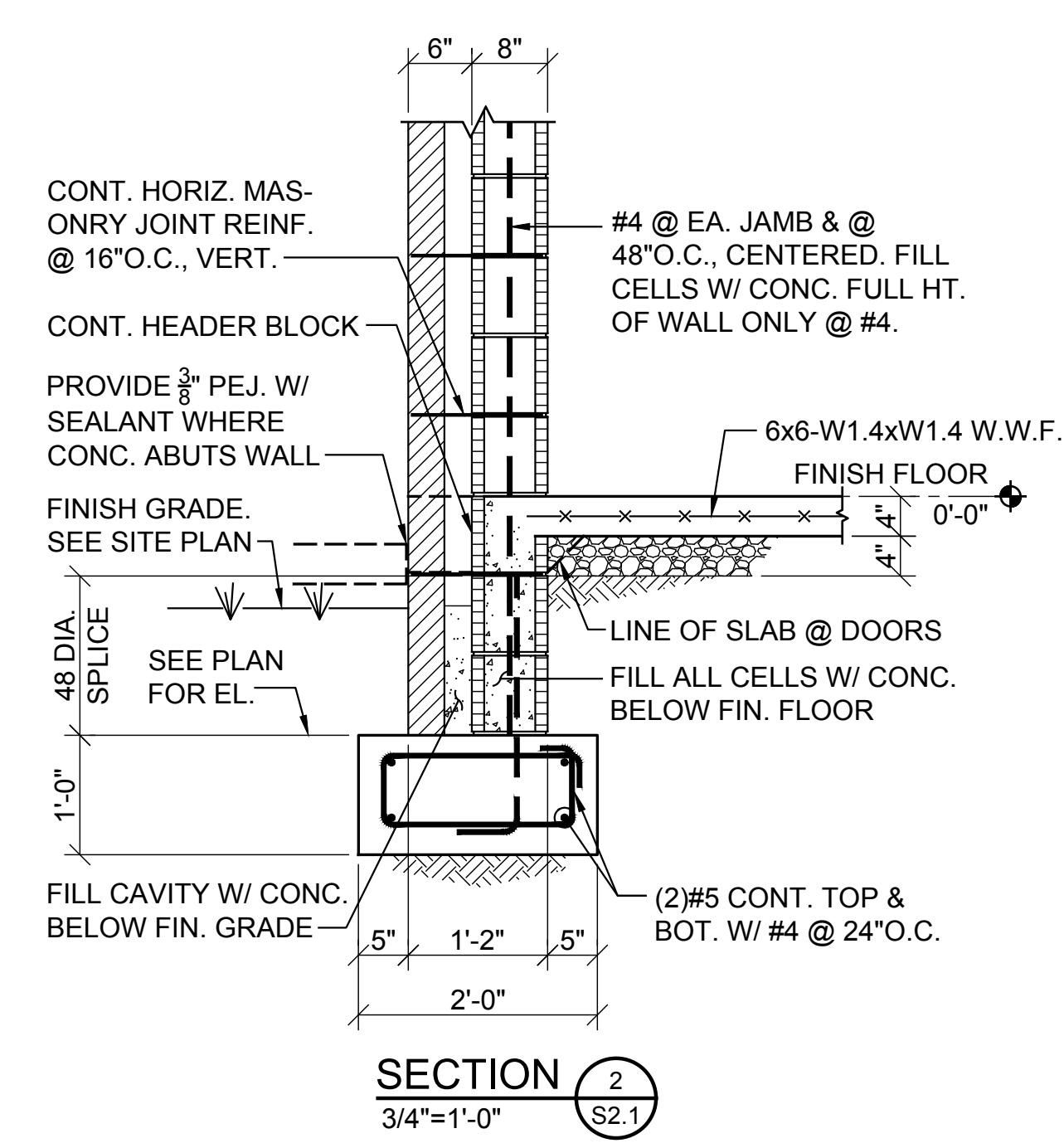
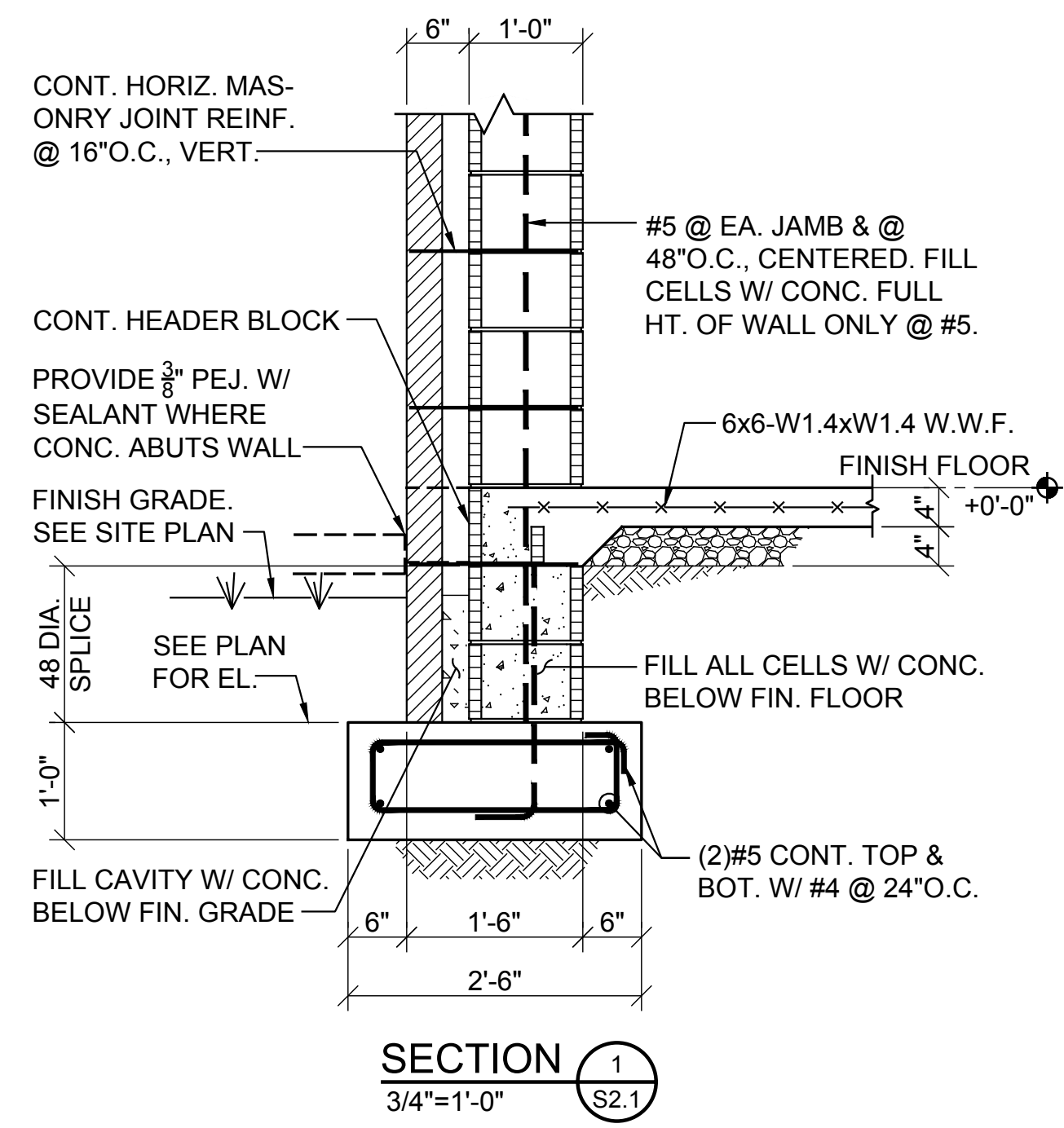
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SHEET TITLE : SECTIONS & DETAILS

JOB NO. : Project Number

DRAWN BY : R. Casey

ISSUE DATE : 7-01-2022

REVISED DATE :

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REVISED DATE :

SHEET NO. : S2.1



**PLUMBING FIXTURE SCHEDULE**

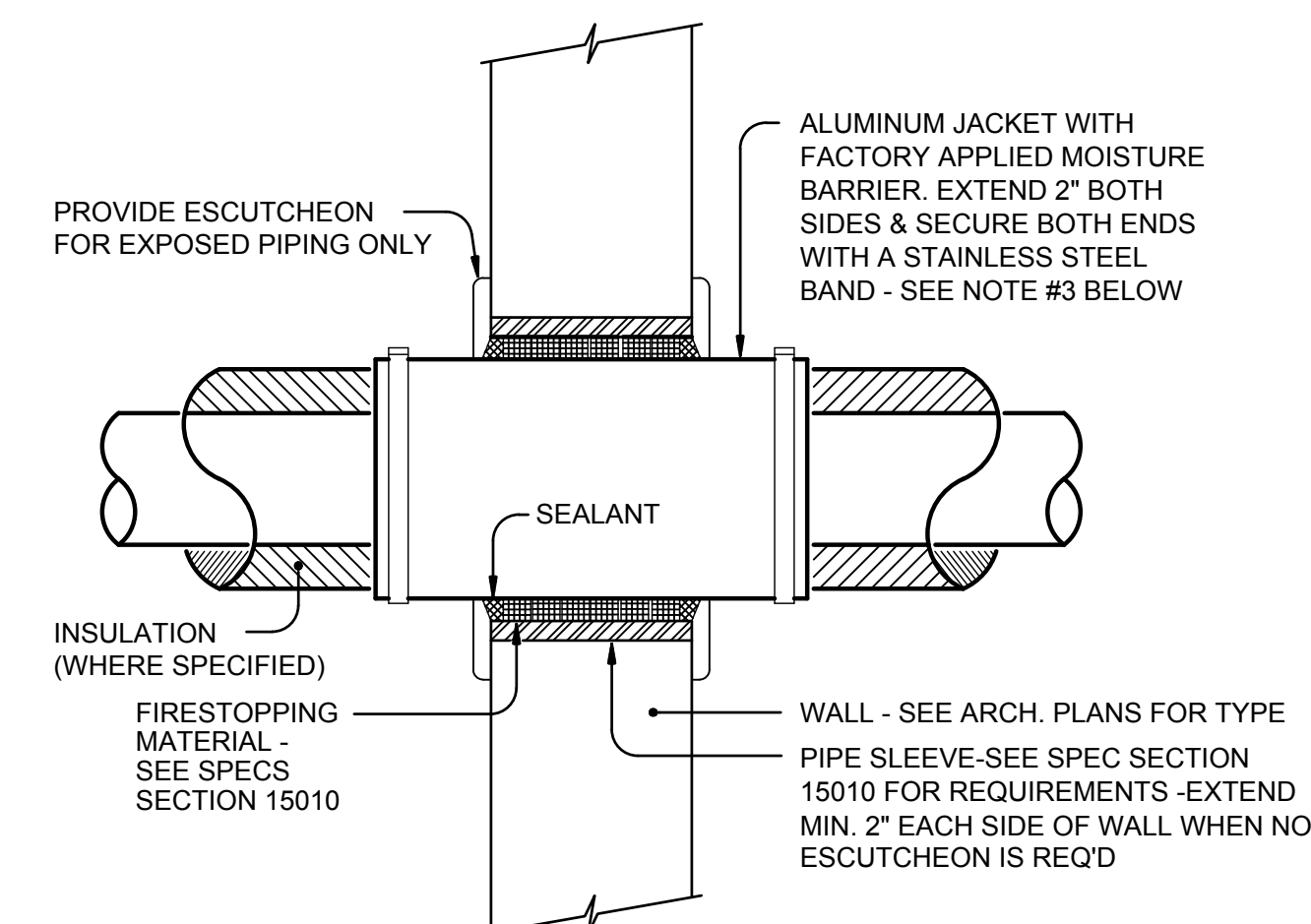
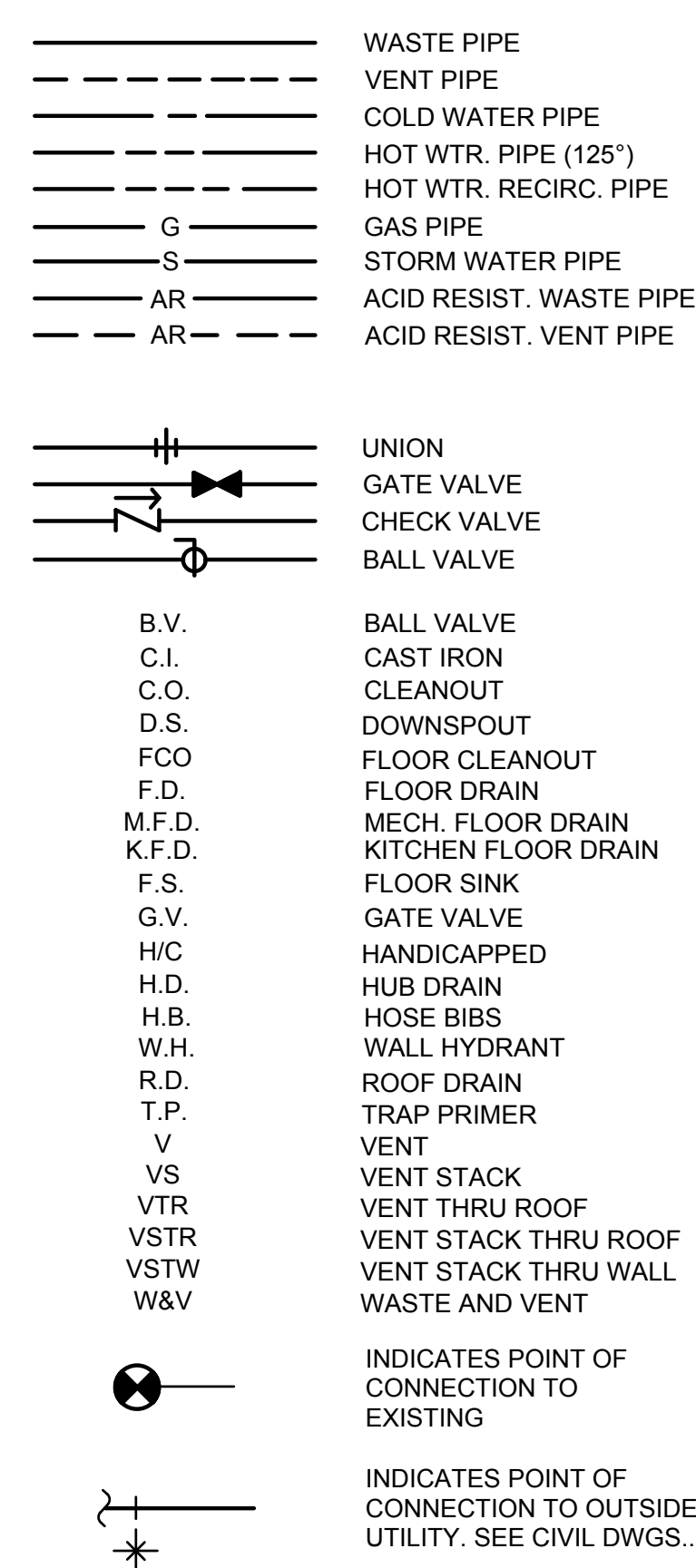
NO.	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P1	ADA WATER CLOSET	3"	1"	---	FL. MTD. - ADA
P2	ADA LAVATORY **	1 1/4"	1/2"	1/2"	WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT
P3	TANKLESS WATER HEATER	---	1/2"	1/2"	4.9 KW - 208V., 1PH., 60HZ.
T.P.	TRAP PRIMER	---	1/2"	---	CONNECT TO FLOOR DRAIN AS SPECIFIED

\*\* PROVIDE A WATER TEMPERATURE LIMITING DEVICE EQUAL TO SYMMONDS #5-210-CK (ASSE STD. 1070) WITH 1/2" TEMPERED WATER LINE TO FAUCET.

**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 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.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING EXTERIOR WALL INSULATION.
- 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 IN/THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL 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. LOCATE 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 EACH SIDE OF EVERY DIELECTRIC UNION 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. SHALL BE 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 18" 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.

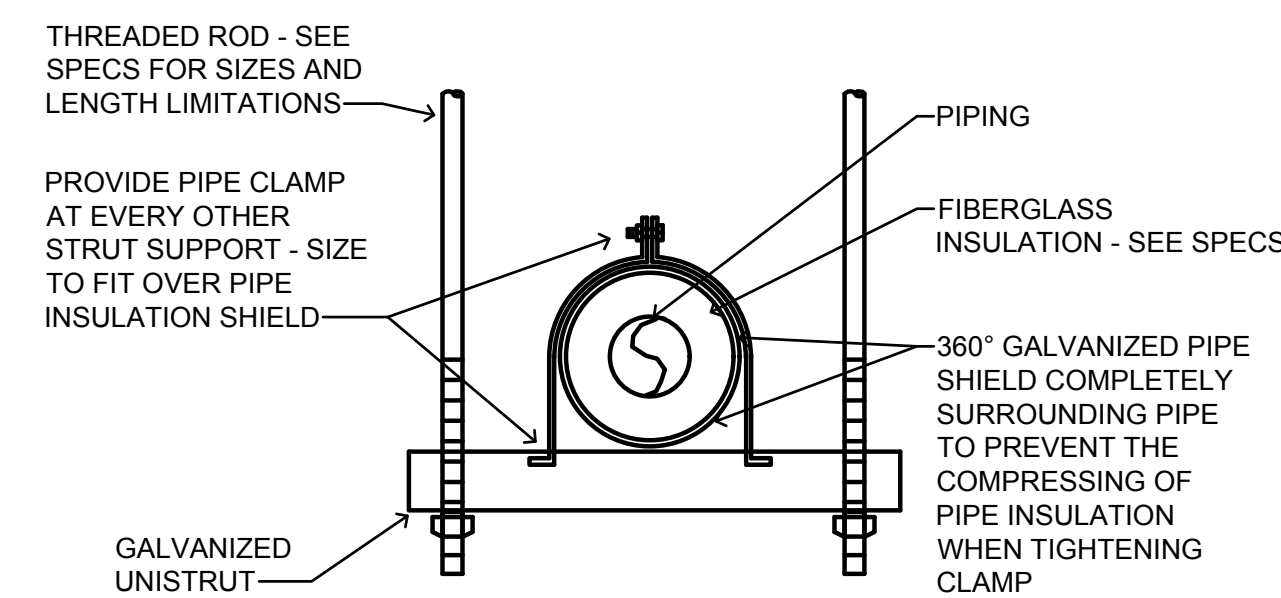
**LEGEND**



**INTERIOR WALL PIPE PENETRATION DETAIL**

NOT TO SCALE

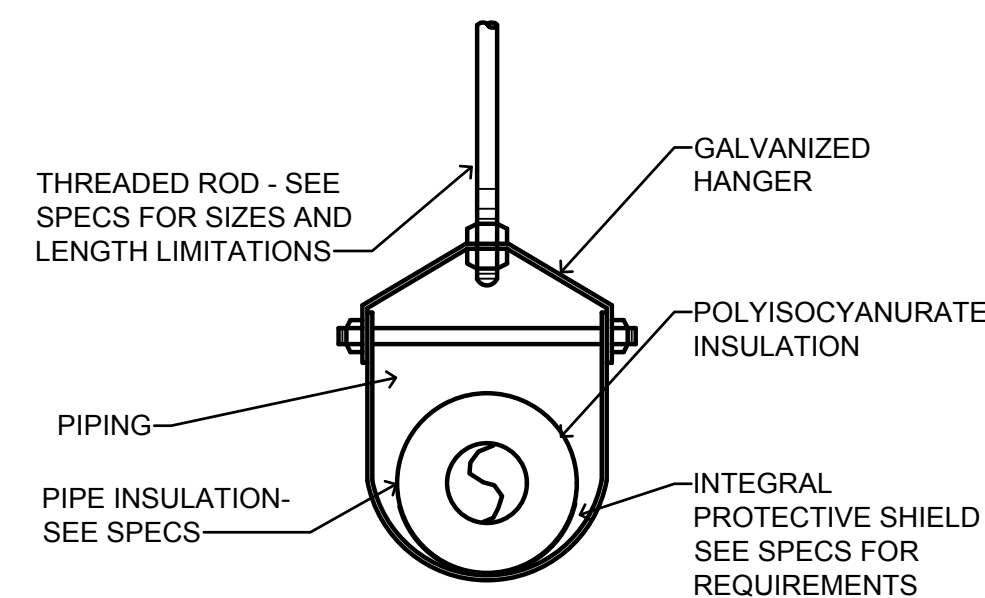
- NOTES:
- DETAIL APPLIES TO ALL PIPING ABOVE AND BELOW THE CEILING.
  - AT GYPSUM BOARD WALLS, PROVIDE MINIMUM 16 GA. GALVANIZED STEEL SLEEVE WITH LOCKING TYPE LONGITUDINAL SEAM
  - OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.
  - ONLY ONE PIPE PER SLEEVE ALLOWED



**TYPICAL UNISTRUT HANGER DETAIL**

NO SCALE

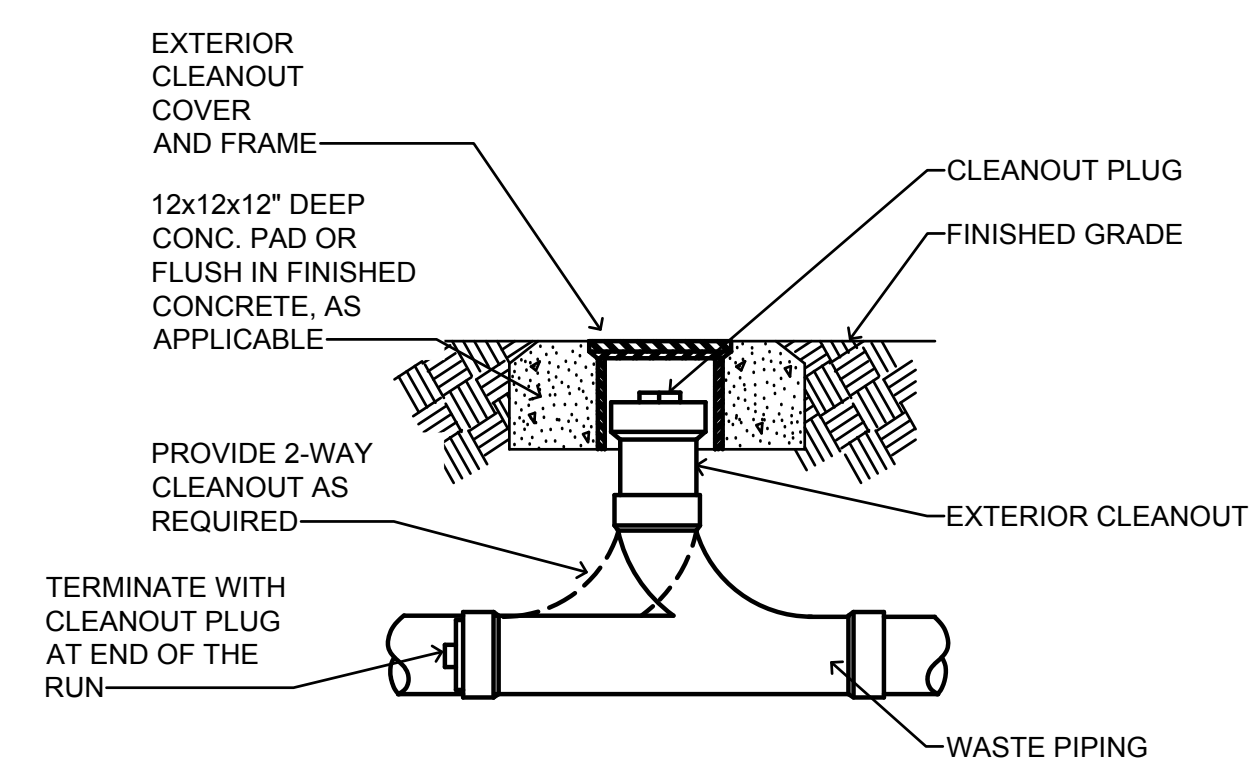
- NOTES:
- HANGER SPACING TO BE AS SPECIFIED.



**TYPICAL PIPE HANGER DETAIL**

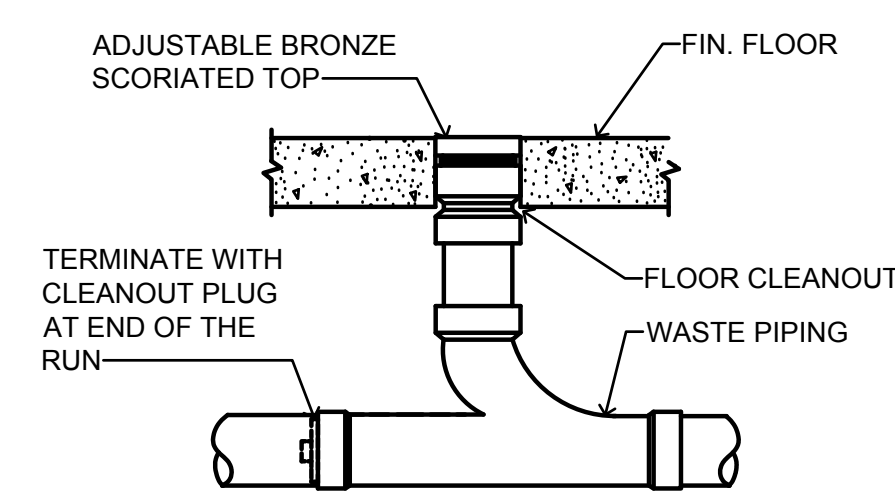
NO SCALE

- NOTES:
- HANGER SPACING TO BE AS SPECIFIED.
  - MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.



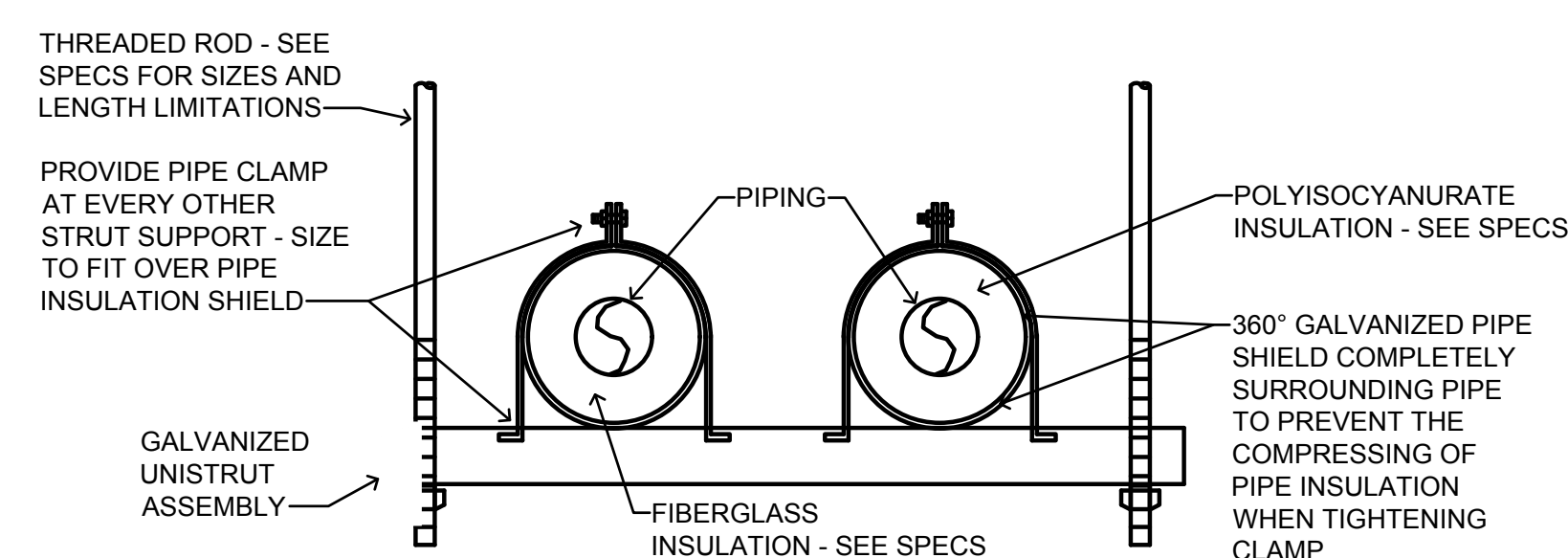
**TYP. EXTERIOR CLEANOUT DETAIL**

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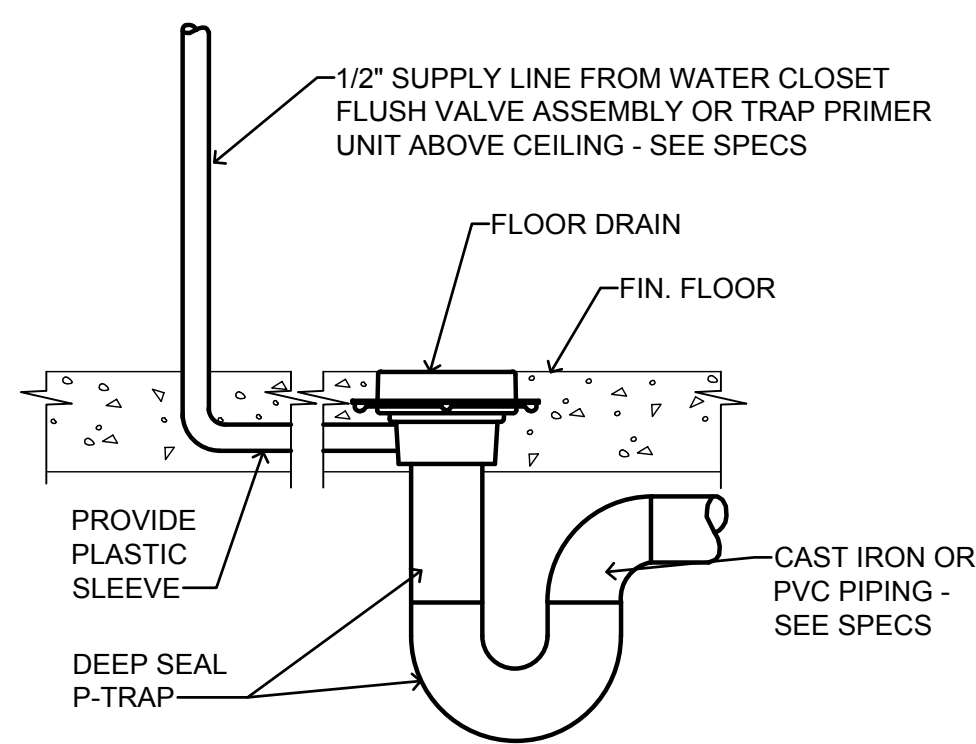
**TYP. FLOOR CLEANOUT DETAIL**

NO SCALE



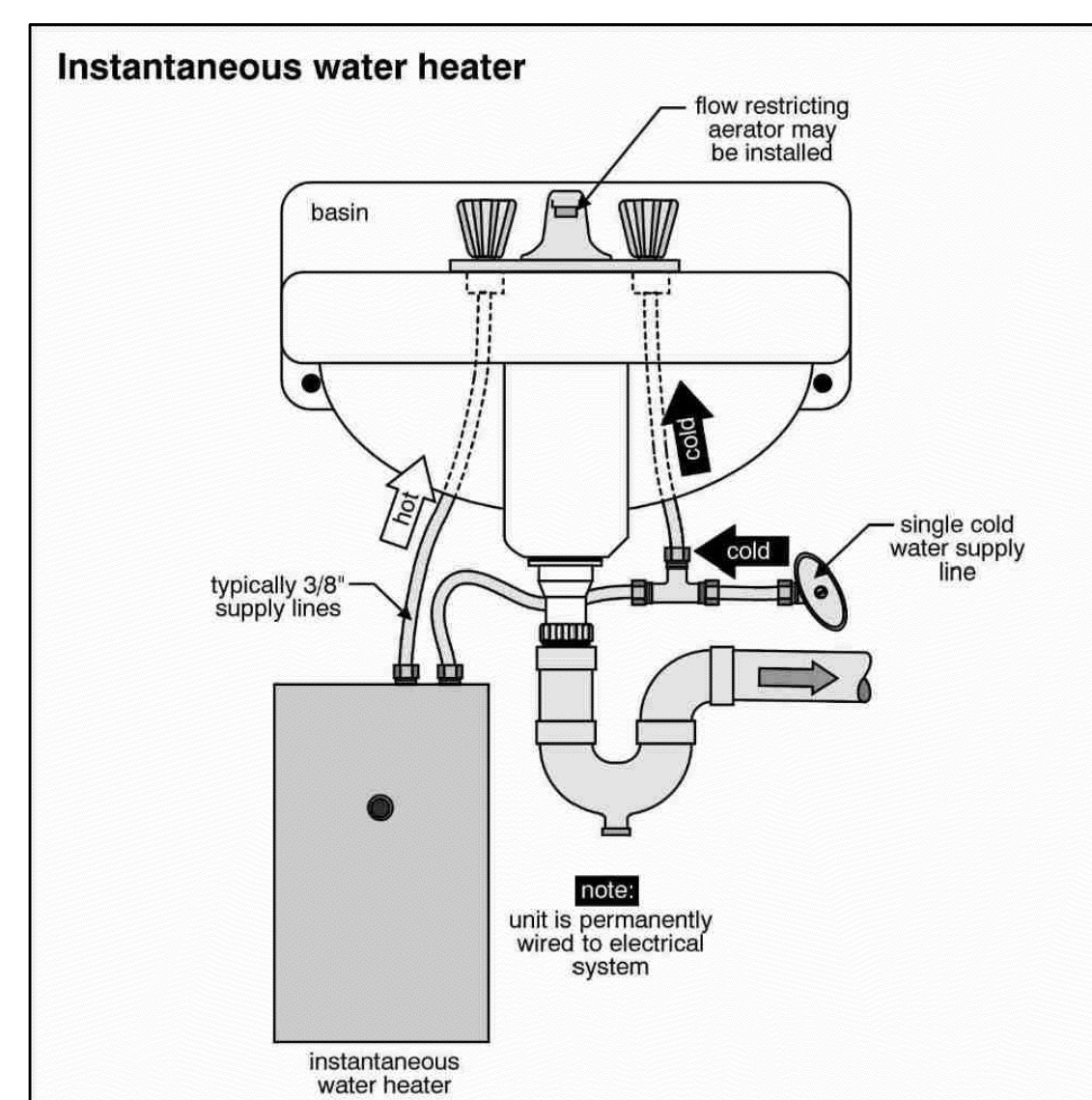
**TYPICAL MULTIPLE PIPES HANGER DETAIL**

NO SCALE



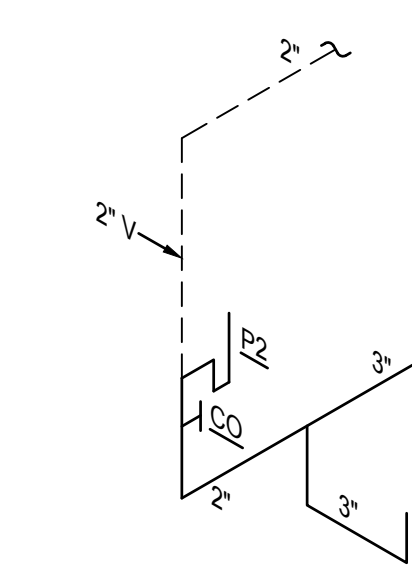
**TRAP PRIMER DETAIL**

NO SCALE

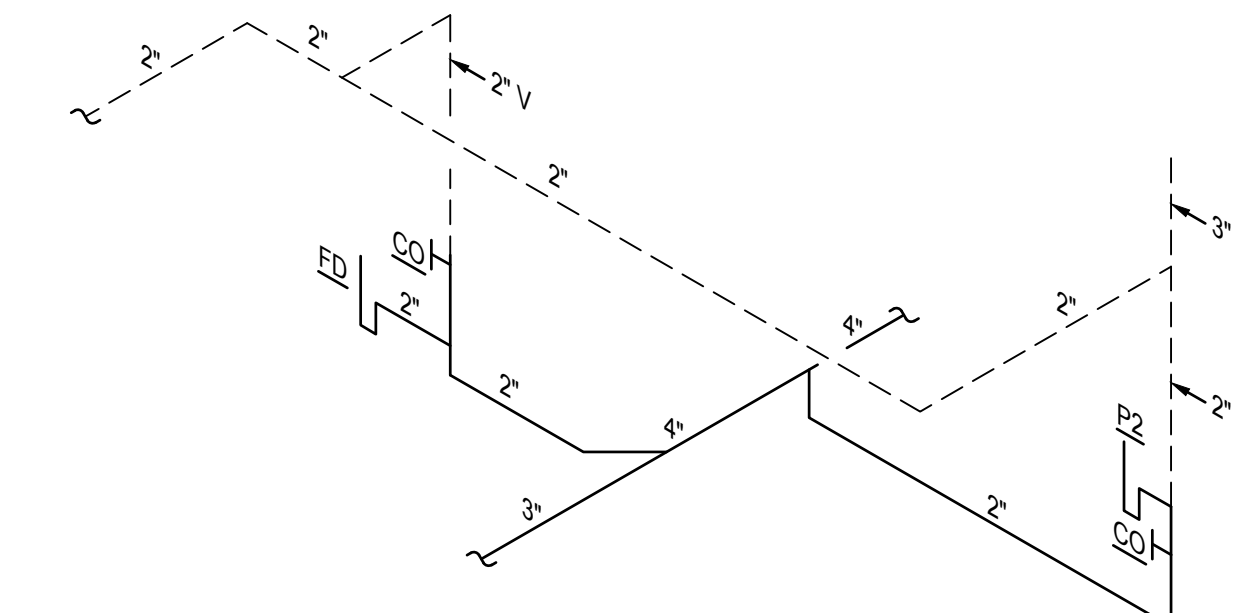


**INSTANTANEOUS WATER HEATER DETAIL**

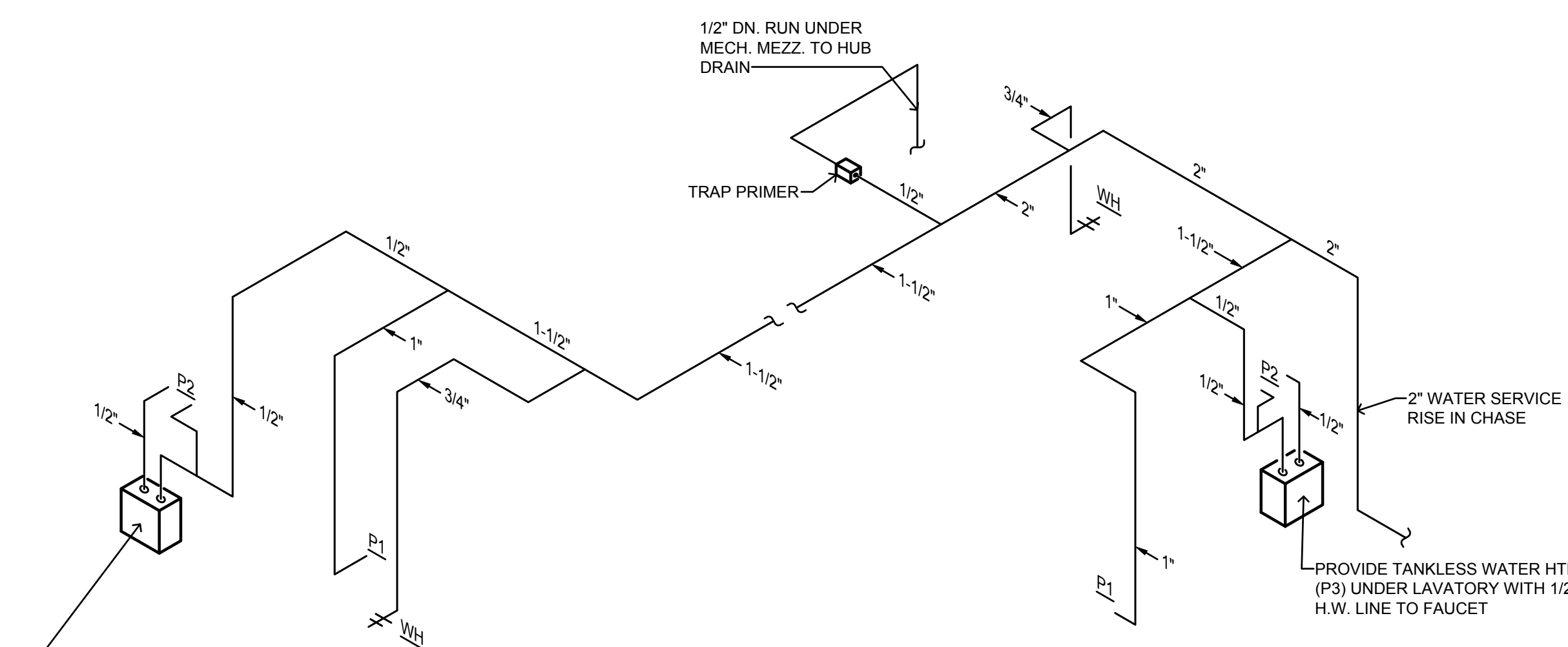
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**WASTE RISER WR-1**



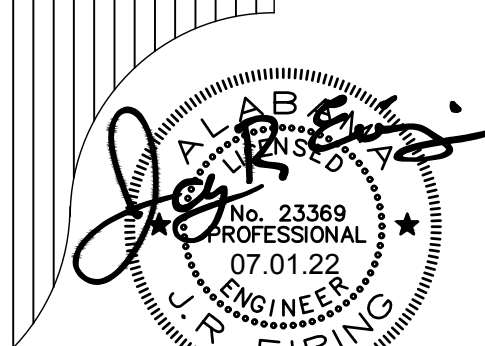
**WASTE RISER WR-2**



**WATER RISER R-1**

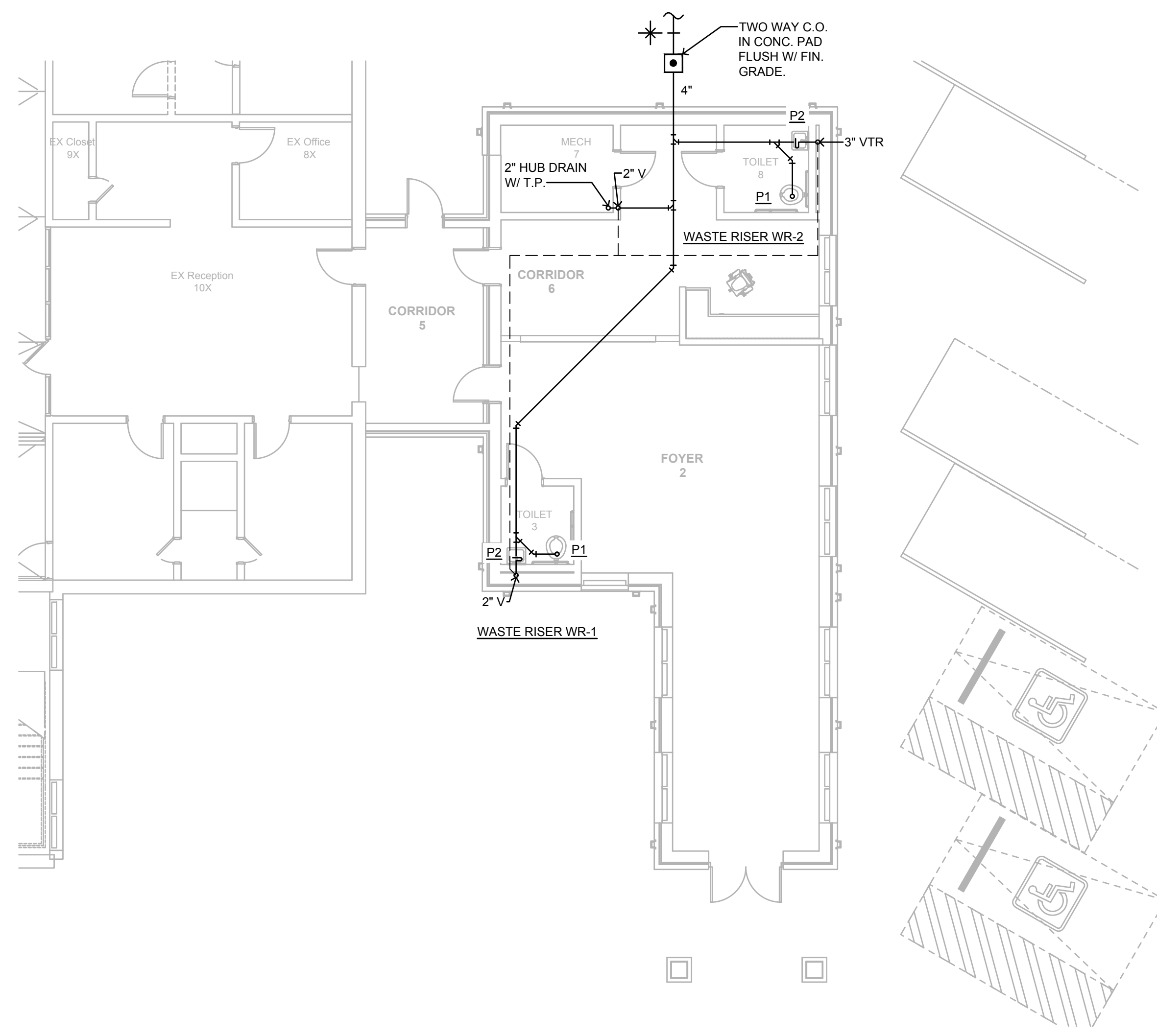
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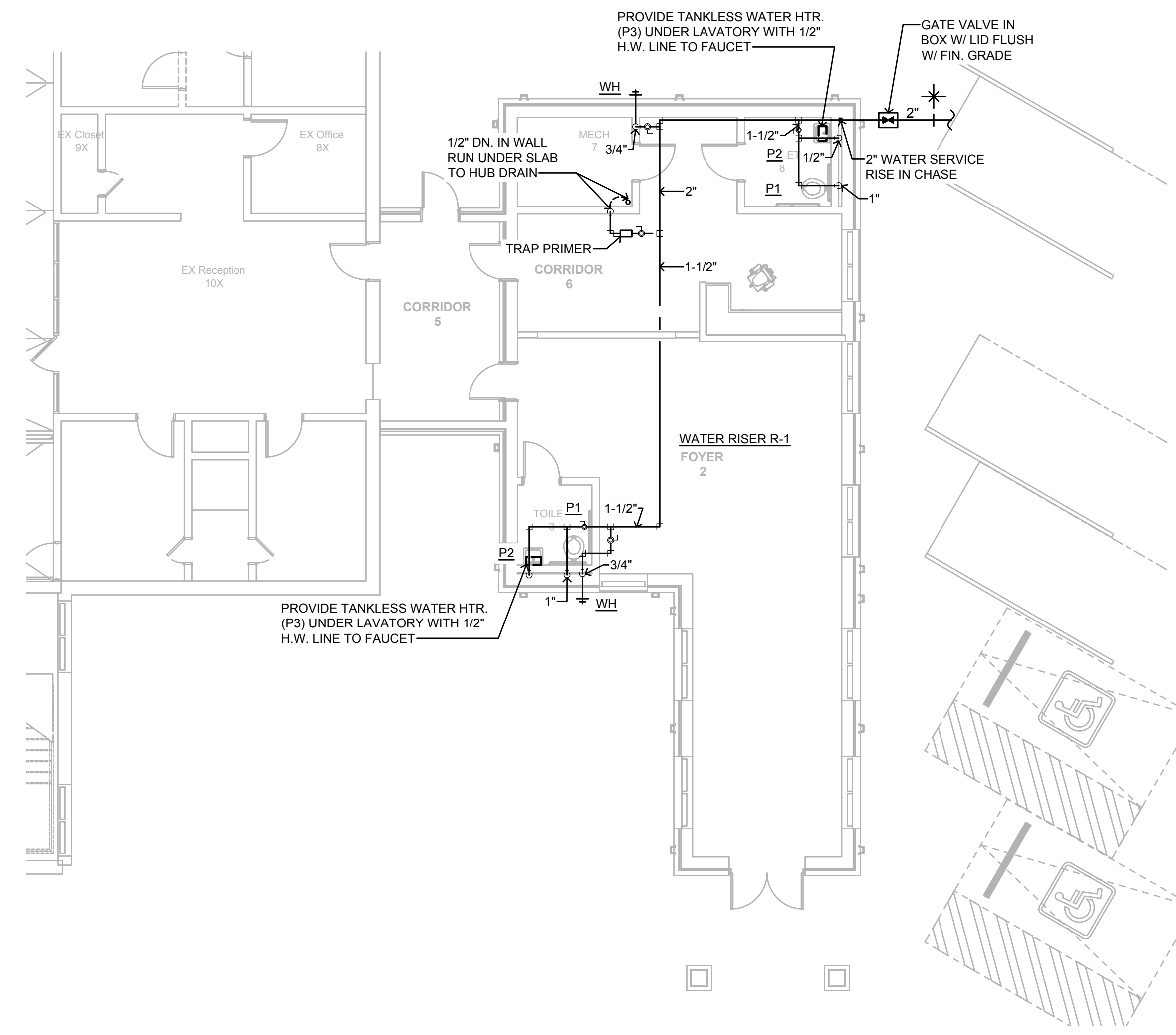


SHEET TITLE : **PLBG. SCHEDULE, NOTES, DETAILS AND RISERS**  
 JOB NO. : **Project Number**  
 DRAWN BY : **C. WARD**  
 ISSUE DATE : **07.01.2022**  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **P1**





SHOWING WASTE PIPING  
**PLBG. FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 0' 2' 4' 8' 16' 32'



SHOWING WATER PIPING  
**PLBG. FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 0' 2' 4' 8' 16' 32'

NEW ADDITION AT BREWER HIGH SCHOOL

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SHEET TITLE : PLBG. PLANS  
 JOB NO. : Project Number  
 DRAWN BY : C. WARD  
 ISSUE DATE : 07.01.2022  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :  
 SHEET NO. : **P2**



## SPLIT SYSTEM HEAT PUMP UNITS SCHEDULE

UNIT NUMBER OR TYPE	HP-A
MINIMUM TOTAL AIR CFM	2400
MINIMUM OUTSIDE AIR SETPOINT/MAX. CO2 SETPOINT/MAX. O.A. (ECONOMIZER) CFM	220 / N/A / 2400
APPROXIMATE EXTERNAL STATIC PRESSURE - IN. WATER COLUMN	.86
APPROXIMATE INDOOR FAN MOTOR HP-POWER	2.0 HP - 480V., 3PH., 60HZ.
MINIMUM TOTAL COOLING CAPACITY AT A.R.I. CONDITIONS-BTU/HR	72,000
MINIMUM HEATING CAPACITY (COMPRESSOR ONLY) AT 70°F	25.0
INDOOR TEMPERATURE AND 22°F OUTDOOR TEMPERATURE-BTU/HR	40,000
MINIMUM AUXILIARY ELECTRIC RESISTANCE HEAT - KW	TWO
NUMBER OF CONTROL STEPS	TWO
POWER	480V., 3PH., 60HZ.
APPROXIMATE COMPRESSOR MOTOR(S) F.L.A. - POWER	14.0 - 480V., 3PH., 60HZ.
APPROXIMATE OUTDOOR SECTION FAN MOTOR(S) F.L.A. - POWER	2.5 - 480V., 1PH., 60HZ.
MINIMUM ENERGY EFFICIENCY RATING AT A.H.R.I. CONDITIONS	11.0
MINIMUM HSPF/COP	3.3

### NOTES:

- ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
- 480 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE INDOOR HEAT PUMP UNIT SECTIONS. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
- EER RATINGS BASED ON AHRI 340/360
- COP RATING BASED ON AHRI 340/360 AT 47°F DB/43°F WB
- UNIT SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS
- UNIT SHALL HAVE MINIMUM OF 2-COMPRESSORS OR 2-STAGE COMPRESSOR AS REQUIRED BY ASHRAE 90.1

## CEILING DIFFUSER SCHEDULE

SYMBOL	CFM RANGE	NECK SIZE INCHES	FACE SIZE INCHES	BRANCH DUCT SIZE	MAXIMUM NC VALUE	BASIS OF DESIGN
①	10 - 95	6" ROUND	24x24	6"Ø	20	TITUS TMS
②	100 - 180	8" ROUND	24x24	8"Ø	20	TITUS TMS
③	185 - 270	10" ROUND	24x24	10"Ø	20	TITUS TMS
④	275 - 400	12" ROUND	24x24	12"Ø	20	TITUS TMS
⑤	405 - 530	14" ROUND	24x24	14"Ø	20	TITUS TMS
⑥	535 - 625	15" ROUND	24x24	15"Ø	20	TITUS TMS

### NOTES

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

## EXHAUST/RETURN AIR REGISTER SCHEDULE

SYMBOL	CFM RANGE	SIZE - IN. x IN.	DESCRIPTION	MAXIMUM NC RATING	BRANCH DUCT SIZE
①	0 - 140	9x9	CEILING EXH. OR RETURN REG.	20	9x6
②	141 - 240	12x12	CEILING EXH. OR RETURN REG.	20	12x7
③	241 - 340	14x14	CEILING EXH. OR RETURN REG.	20	14x7
④	341 - 460	16x16	CEILING EXH. OR RETURN REG.	20	16x9
⑤	461 - 600	18x18	CEILING EXH. OR RETURN REG.	20	18x10
⑥	601 - 760	20x20	CEILING EXH. OR RETURN REG.	20	20x12
⑦	761 - 940	24x24	CEILING EXH. OR RETURN REG.	20	24x12
⑧	941 - 1200	30x24	CEILING EXH. OR RETURN REG.	20	24x14
⑨	1201 - 1400	36x24	CEILING EXH. OR RETURN REG.	20	28x14

### NOTES

- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
- ⑧ & ⑨ SHALL BE IN INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.

## FANS SCHEDULE

FAN TYPE	EF-A
C.F.M.	70
MINIMUM FAN SIZE - INCHES	8.0
APPROX. FAN ROOF/WALL OPENING - INCHES	N/A
MAXIMUM FAN SPEED - RPM	1050
APPROX. EXTERNAL STATIC PRESSURE - IN. OF WATER	.25
MINIMUM FAN MOTOR H.P. - POWER	77 WATTS - 120V, 1PH., 60 HZ.
CONTROL INTERLOCK	LIGHTING CIRCUIT
DESCRIPTION	CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVE

## PACKAGED THRU THE WALL HEAT PUMP UNIT SCHEDULE

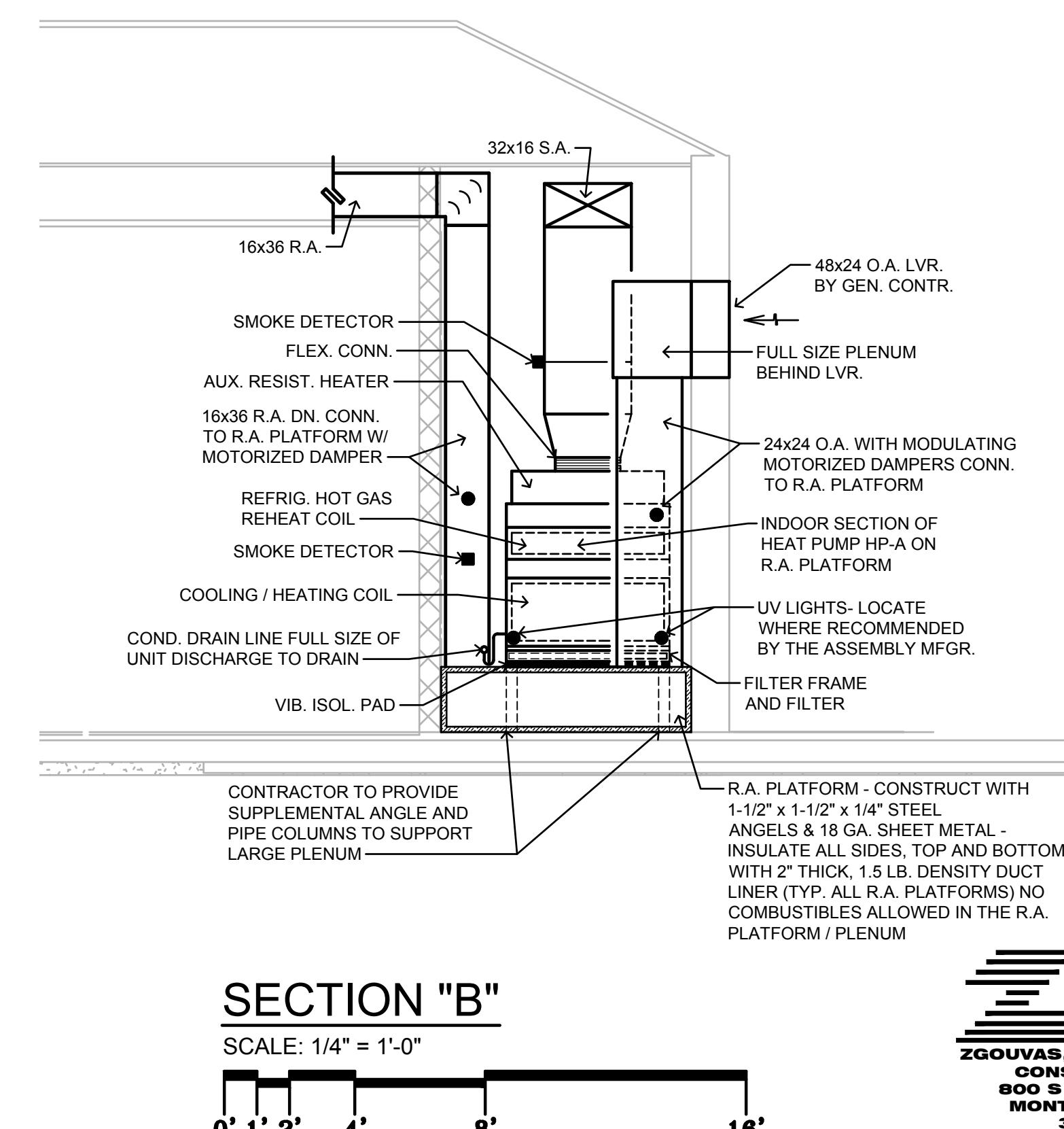
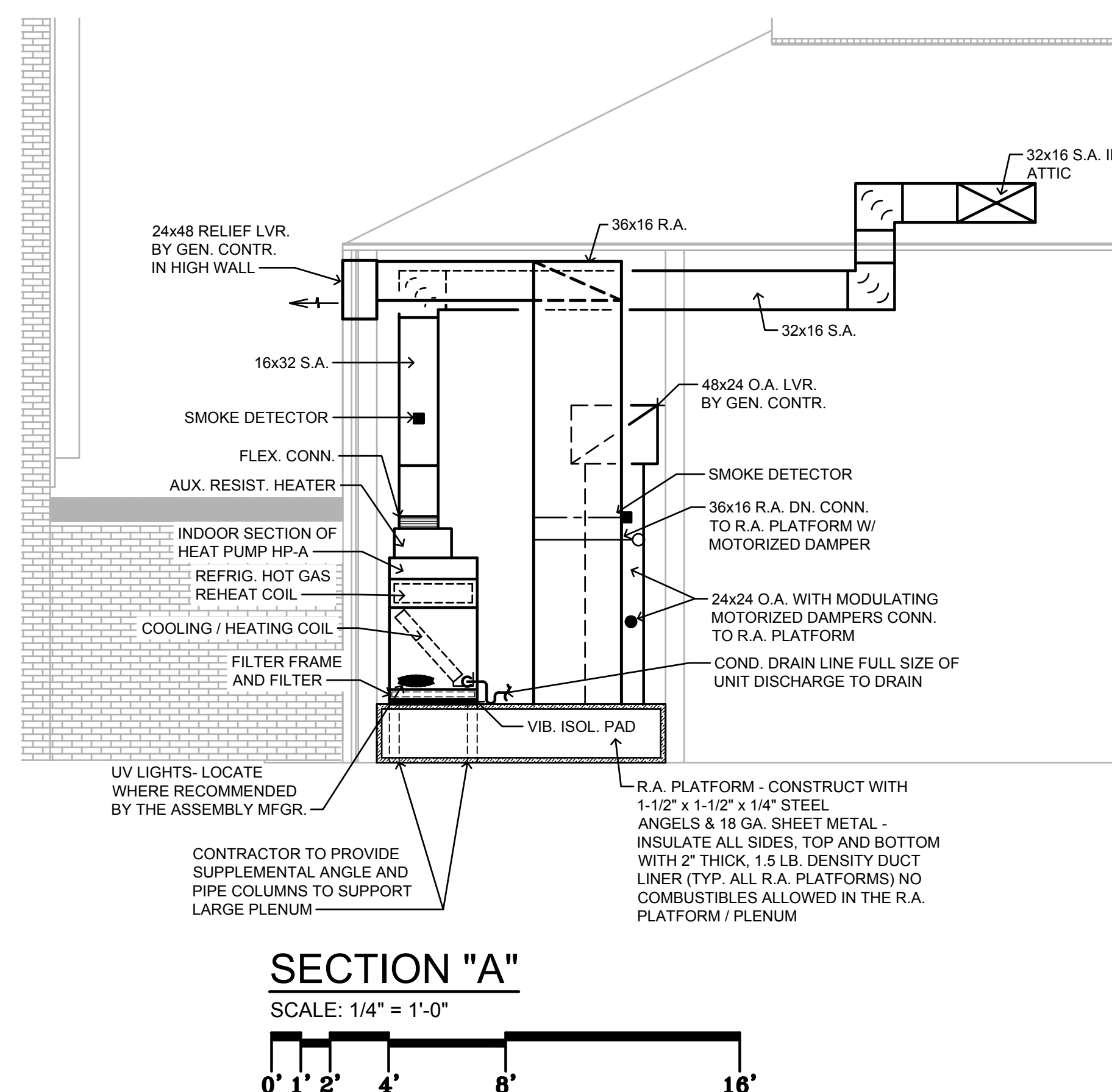
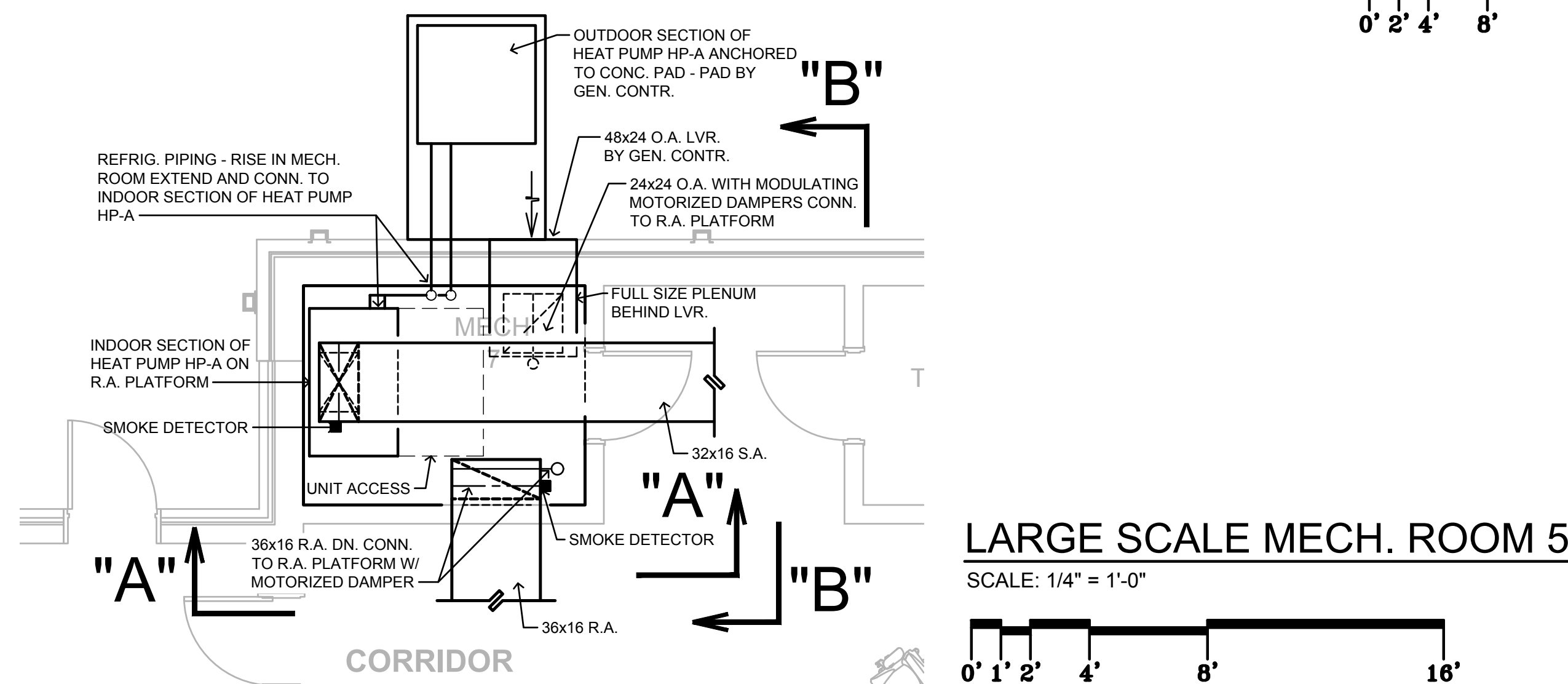
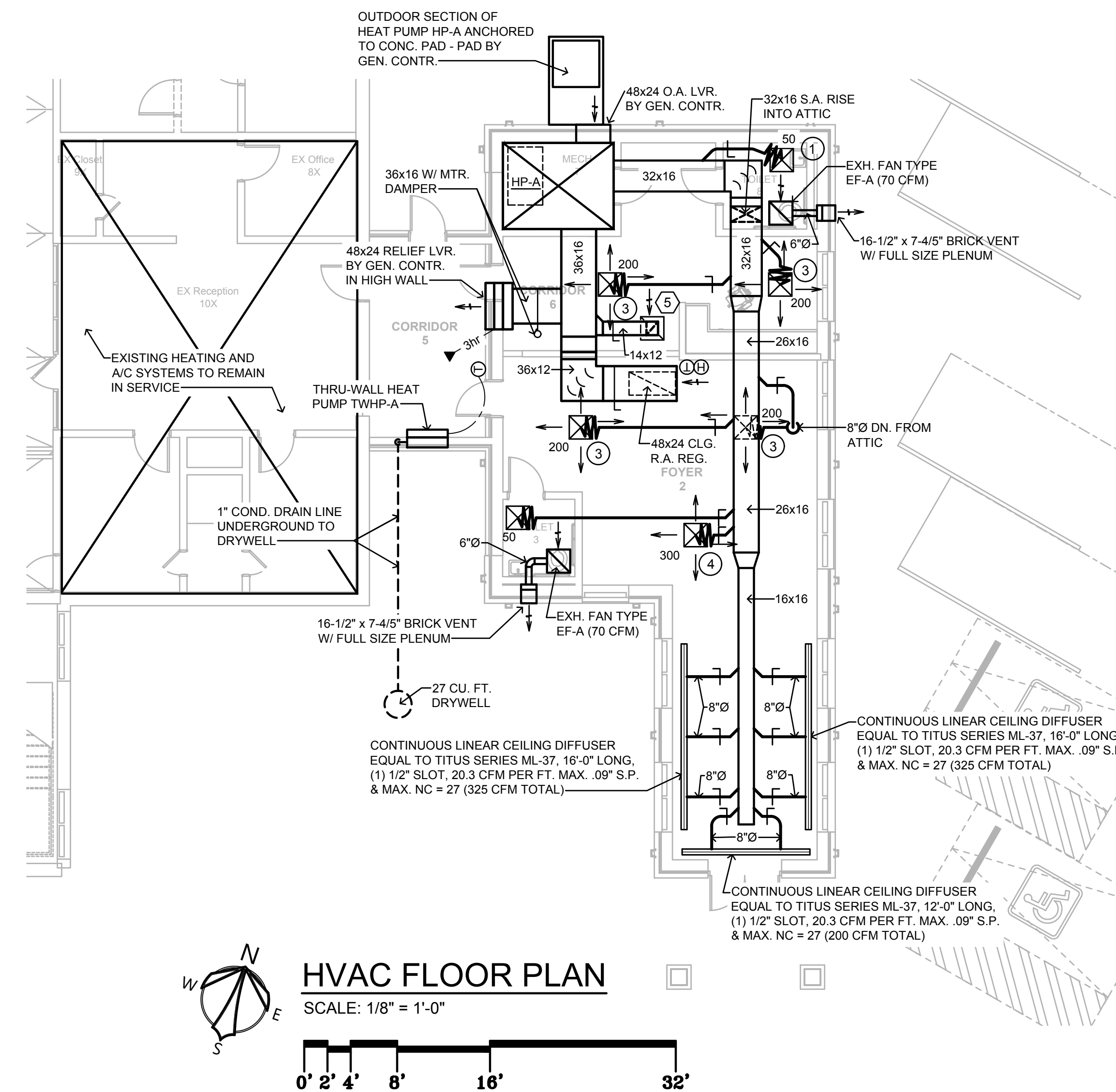
UNIT TYPE	TWHP-A
MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR	13,800
MINIMUM HEATING CAPACITY (COMPRESSOR ONLY) BTU/HR	13,000
MINIMUM AUX. ELECTRIC RESISTANCE HEAT - KW	4.0
INDOOR FAN CFM AT HIGH SPEED	315
OUTSIDE AIR CFM	100
UNIT POWER - MCA / MOP	27.7 / 30.0 - 208V., 1PH., 60HZ.
MINIMUM E.E.R. AT A.R.I. 210/240	9.8
MINIMUM COP AT A.R.I. 210/240	3.0
REMARKS	W/ ARCHITECTURAL GRILLE

### NOTES:

- HEATING CAPACITY (COMPRESSOR) BASED ON 47°F DB AMBIENT TEMPERATURE

## LEGEND

	BAROMETRIC DAMPER
	MANUAL VOLUME DAMPER (MVD)
	MOTORIZED DAMPER (MD)
	SMOKE DETECTOR
	CEILING DIFFUSER
	RETURN AIR GRILLE/REGISTER EXHAUST AIR GRILLE/REGISTER
	RECTANGULAR SUPPLY DUCT TURNING UP
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
	DUCT W/ RECTANGULAR SIZE
	CEILING DIFFUSER DESIGNATOR
	RETURN AIR GRILLE/REGISTER
	EXHAUST AIR GRILLE/REGISTER
	AIR TRANSFER DUCT
	AUXILIARY DRAIN
	THERMOSTAT
	HUMIDISTAT
	ABOVE FINISH FLOOR CEILING OR COOLING CONNECT OR CONNECTION
	FIRE DAMPER
	GENERAL CONTRACTOR OUTSIDE AIR RETURN AIR SUPPLY AIR



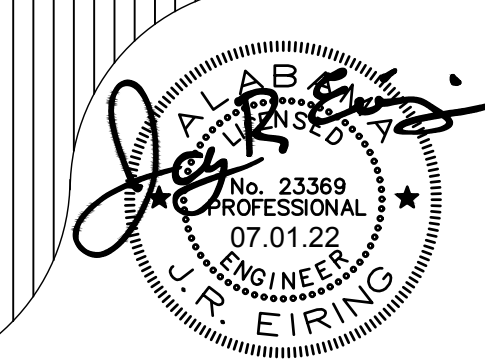
NEW ADDITION AT BREWER HIGH SCHOOL

FOR MORGAN COUNTY BOARD OF EDUCATION

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MCKEE and ASSOCIATES ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : HVAC PLANS, & SCHEDULES

JOB NO. : Project Number

DRAWN BY : C. WARD

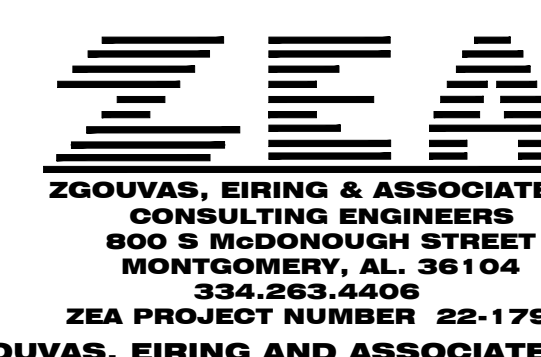
ISSUE DATE : 07.01.2022

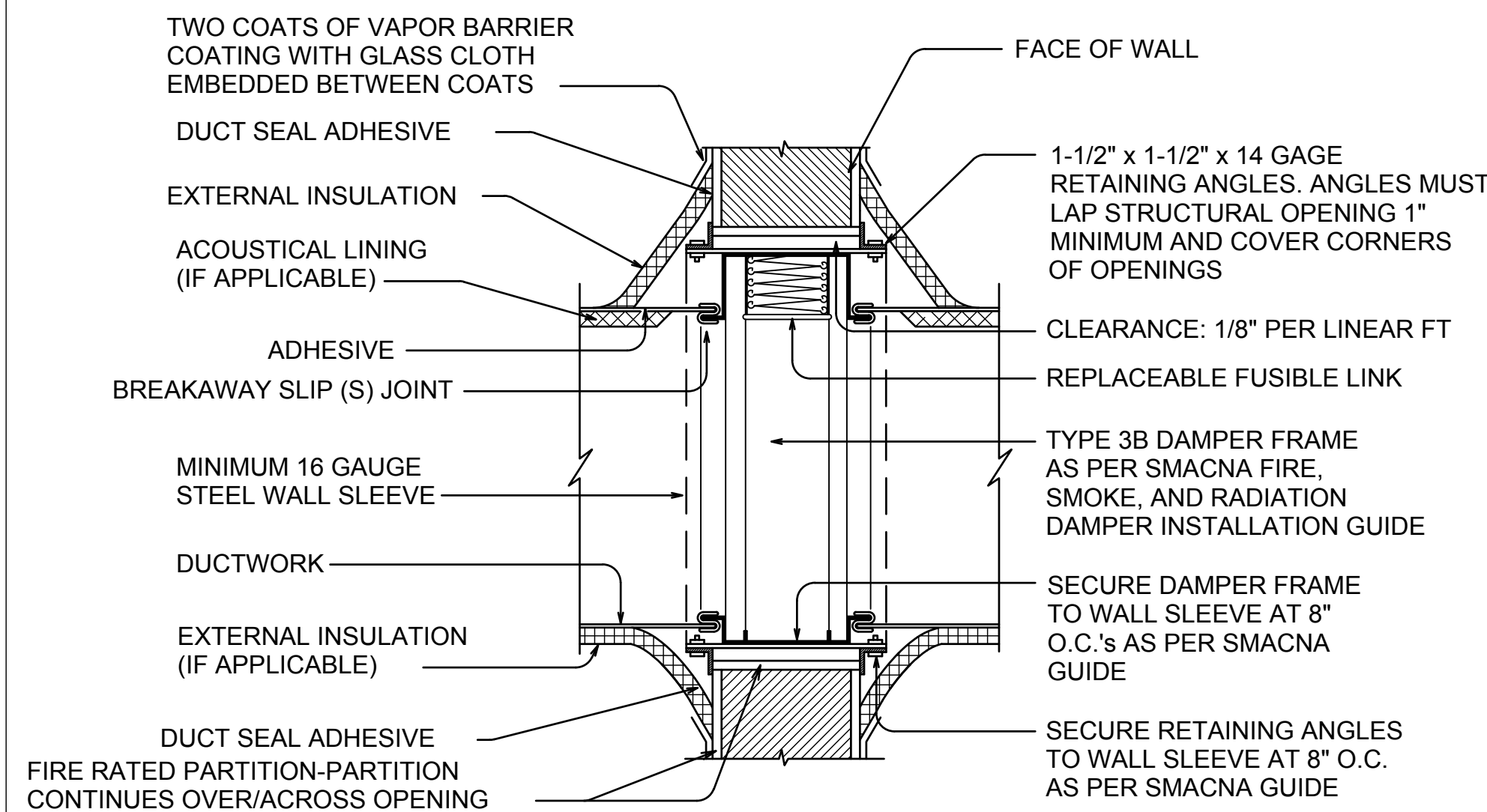
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SHEET NO. : M1





**WALL MOUNTED FIRE DAMPER DETAIL**

NOT TO SCALE

**NOTES:**

- 1.) PROVIDE FIRE DAMPERS IN ALL DUCTS PENETRATING FIRE RATED WALLS, CEILINGS, FLOORS AND ANY TYPE OF RATED ASSEMBLY - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATINGS.
- 2.) VERTICAL ACTION INSTALLATION SHOWN. HORIZONTAL ACTION DAMPER INSTALLATION SIMILAR.
- 3.) PROVIDE ACCESS PANEL/DOOR IN DUCT AND INACCESSIBLE (HARD) CEILINGS FOR EACH FIRE DAMPER
- 4.) DO NOT EXTERNALLY INSULATE THE FIRE DAMPER ANGLES UNTIL THE ENGINEER HAS INSPECTED THE FIRE DAMPER INSTALLATION

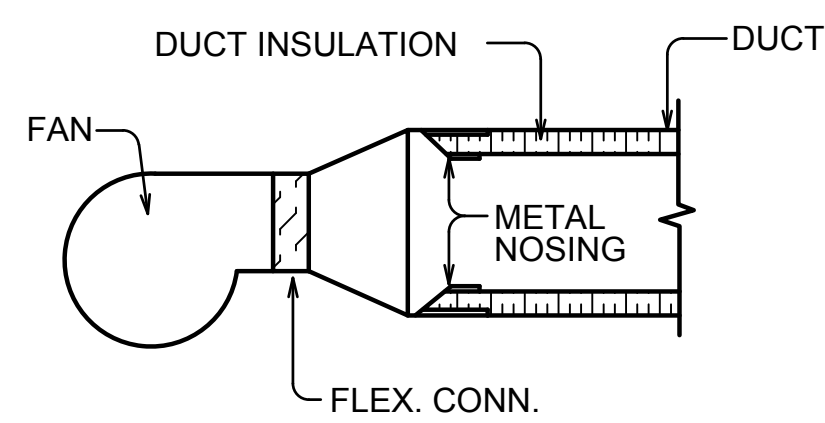
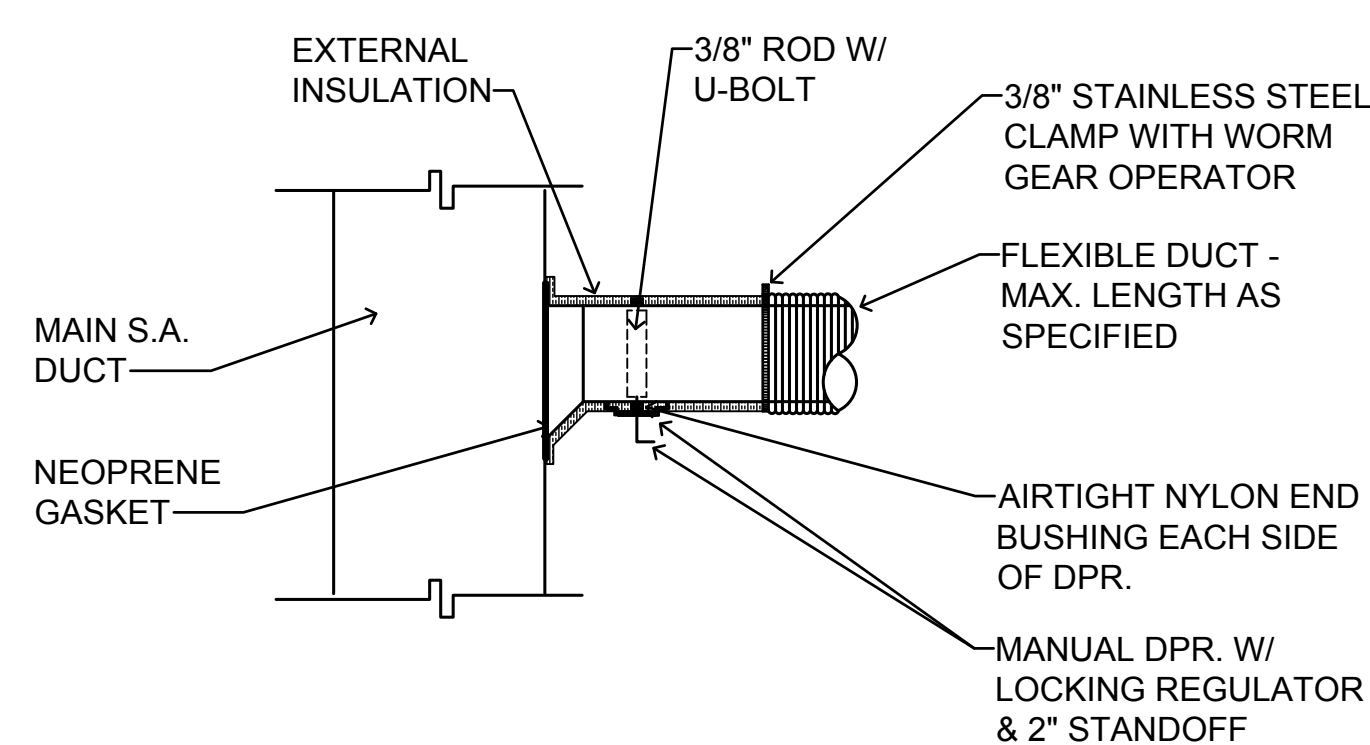
**SYMBOLS**

- ▶ DENOTES VERTICAL ACTION FIRE DAMPER
- ◀ DENOTES HORIZONTAL ACTION FIRE DAMPER

**ROUND BRANCH DUCT TAKE-OFF DETAIL**

NOT TO SCALE

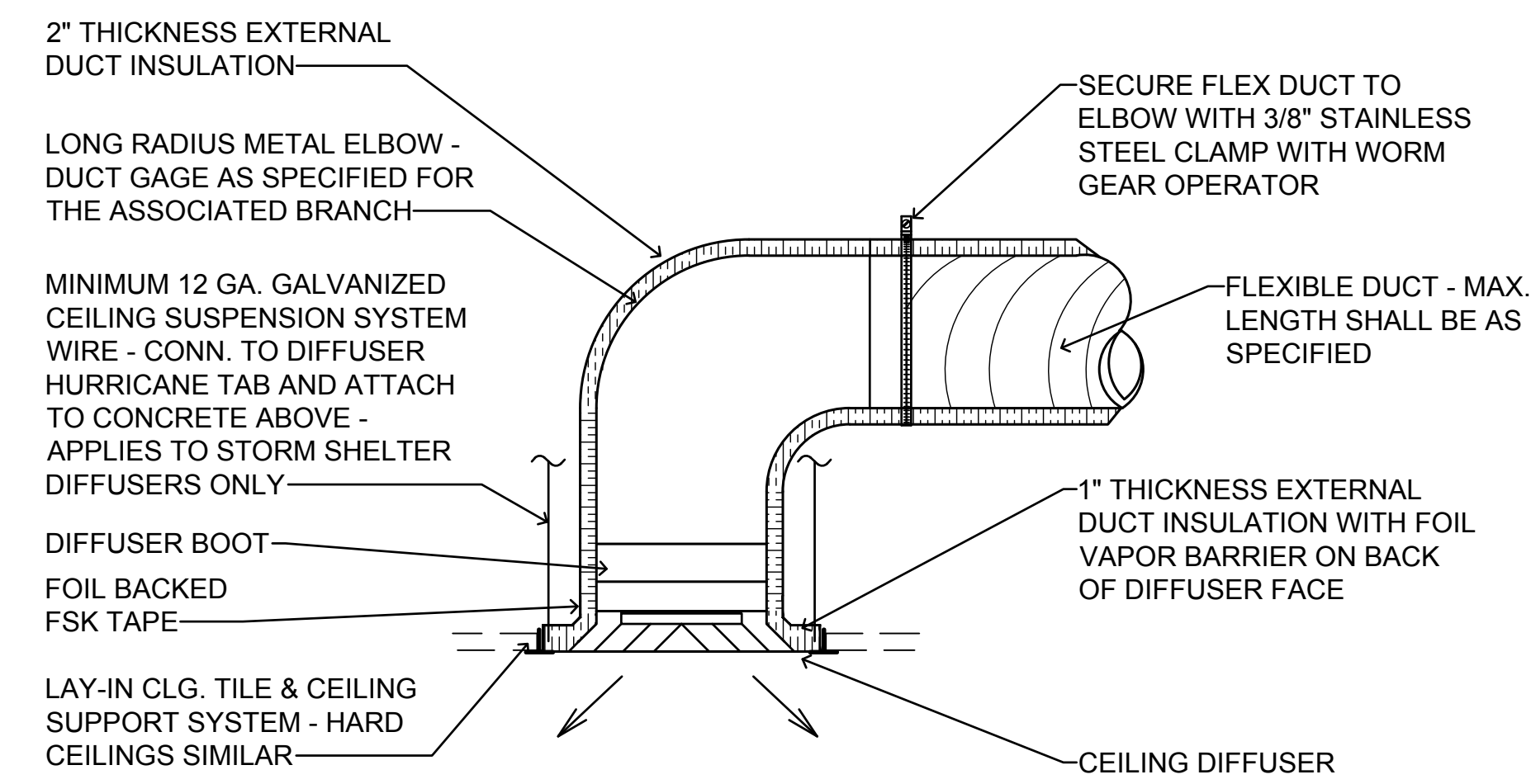
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT



**TYPICAL DUCT LINER INTERRUPTION DETAIL**

NOT TO SCALE

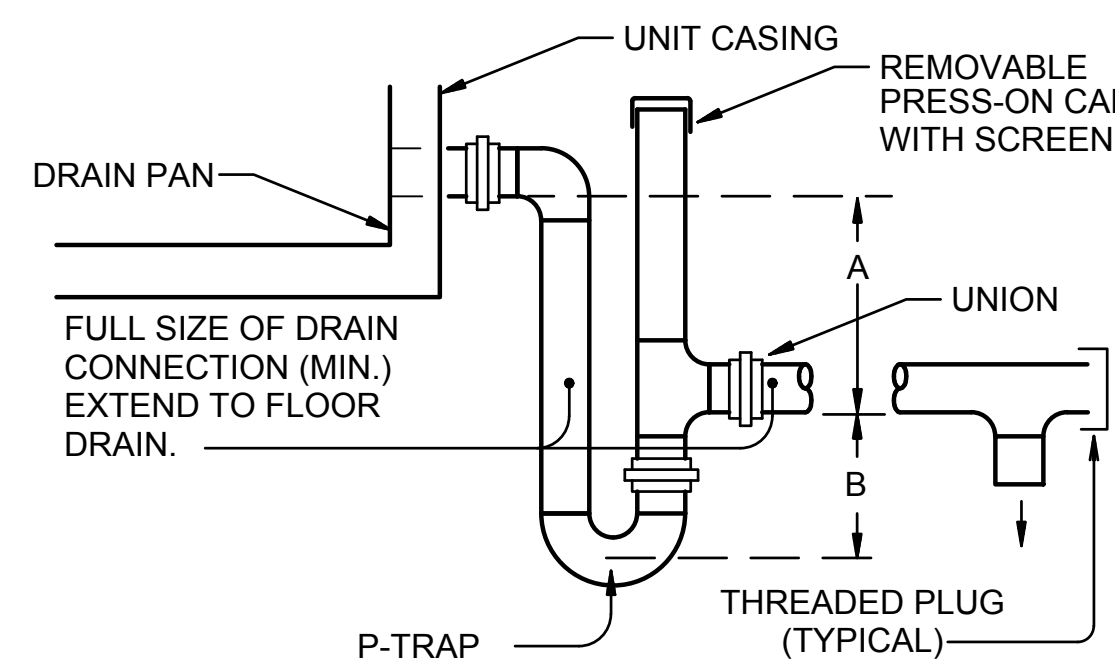
NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS



**DIFFUSER BOOT/PLENUM CONNECTION DETAIL**

NOT TO SCALE

1. DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
2. DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.



UNIT TYPE	A	B
DRAW-THRU	2" PLUS "X"	"X" PLUS 1"
BLOW-THRU	1" MINIMUM	2X PLUS 1"

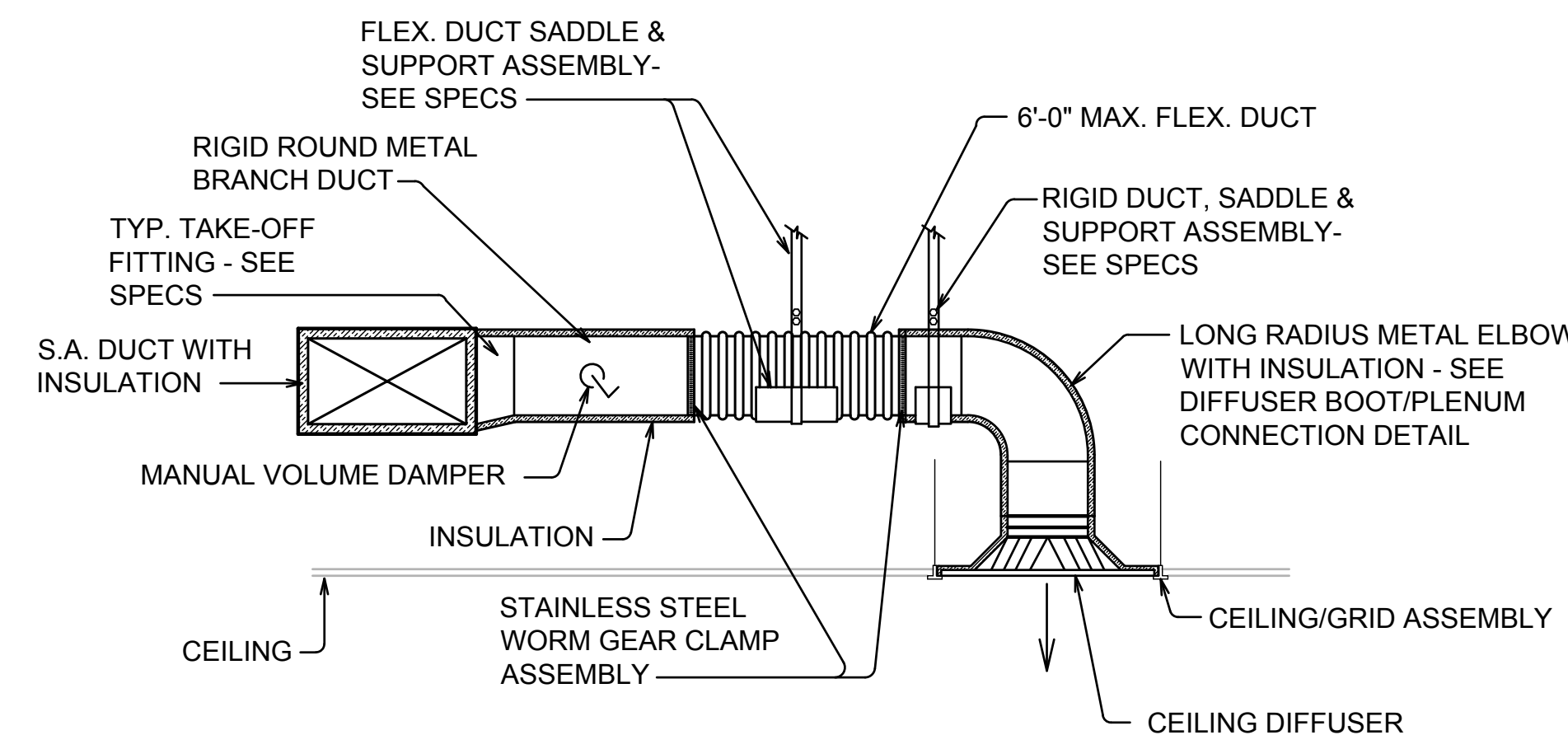
WHERE "X" = AHU STATIC PRESSURE

**TYPICAL AIR HANDLING UNIT CONDENSATE DRAIN DETAIL**

NOT TO SCALE

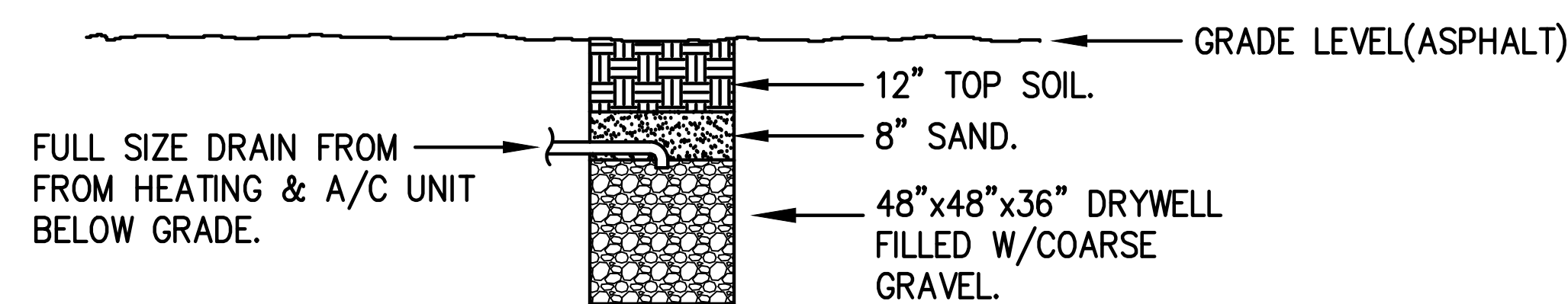
**NOTES:**

1. CONTRACTOR SHALL PROVIDE DRAIN AS REQUIRED BY THE AIR HANDLING UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDED DRAIN AS DETAILED ABOVE
2. CONTRACTOR SHALL RAISE AIR HANDLING UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE
3. PROVIDE AN ELECTRIC SWITCH IN THE CONDENSATE DRAIN LINE, THAT CONFORMS TO UL 508, TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM OPERATOR CONSOLE (IF APPLICABLE) SHOULD THE LINE BECOME OBSTRUCTED

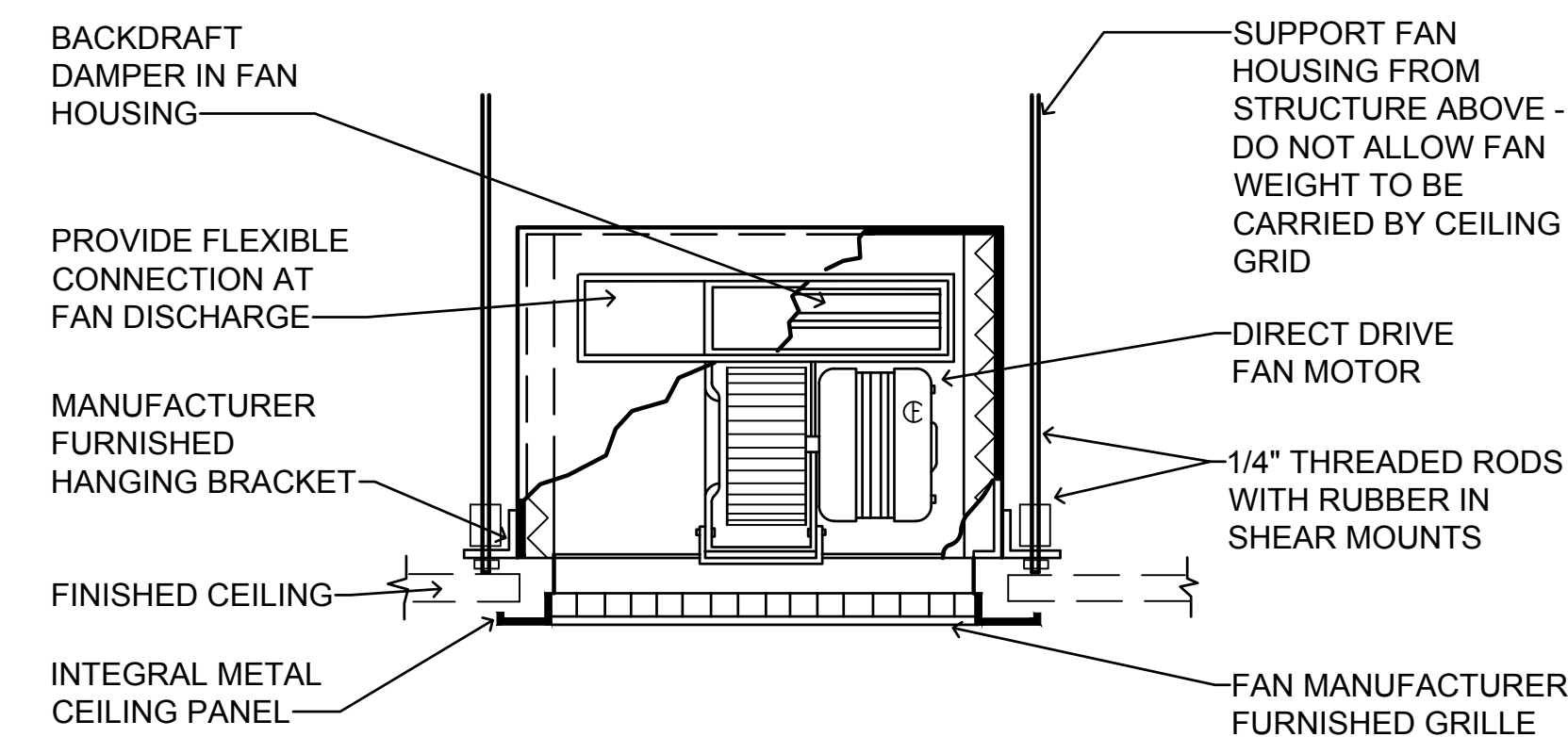


**TYPICAL DIFFUSER RUN-OUT CONN.**

NOT TO SCALE

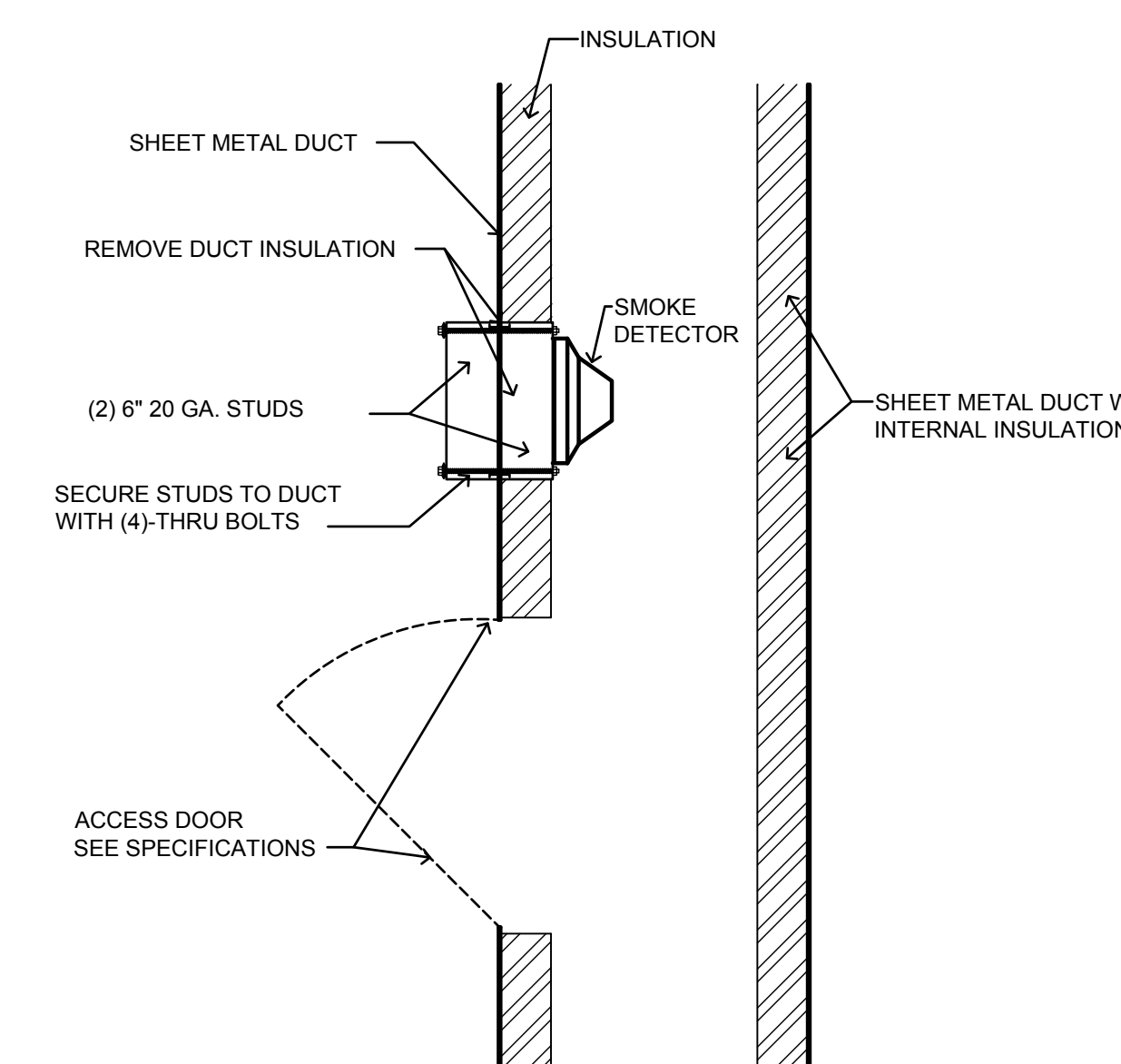


**DRYWELL DETAIL**  
NO SCALE



**CEILING MOUNTED EXHAUST FAN CONN. DETAIL**

NO SCALE



**SMOKE DETECTOR MOUNTING DETAIL**

NOT TO SCALE

NEW ADDITION AT BREWER HIGH SCHOOL

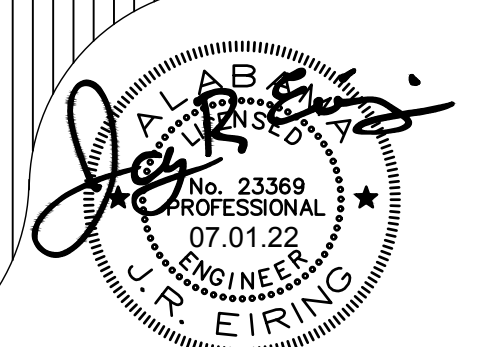
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**McKee and Associates**  
ARCHITECTS, INC.

631 SOUTH HULL STREET, MONTGOMERY, AL 36104 (334) 834-9833



SHEET TITLE : HVAC DETAILS

JOB NO. : Project Number

DRAWN BY : C. WARD

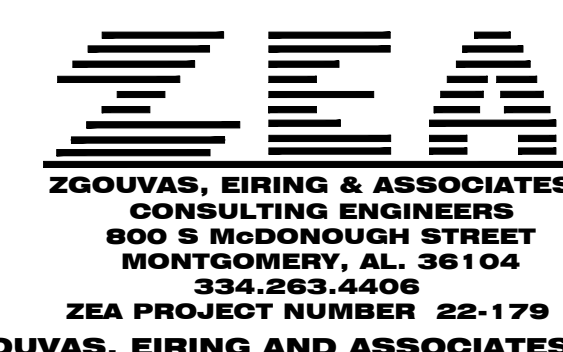
ISSUE DATE : 07.01.2022

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : M2





**ROOM CONTROLLER NOTES:**

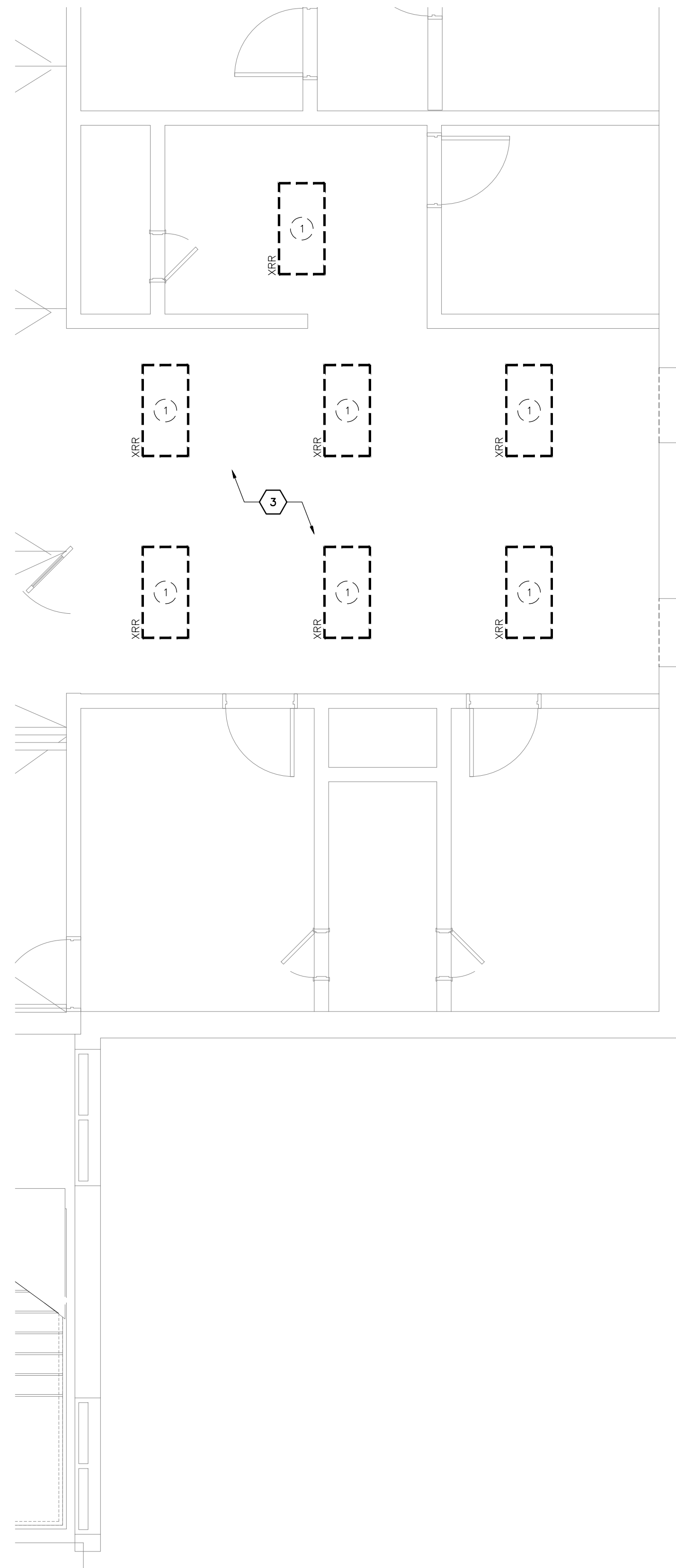
1. CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLER SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. 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.

**PHOTOCONTROL OF LIGHTING:**

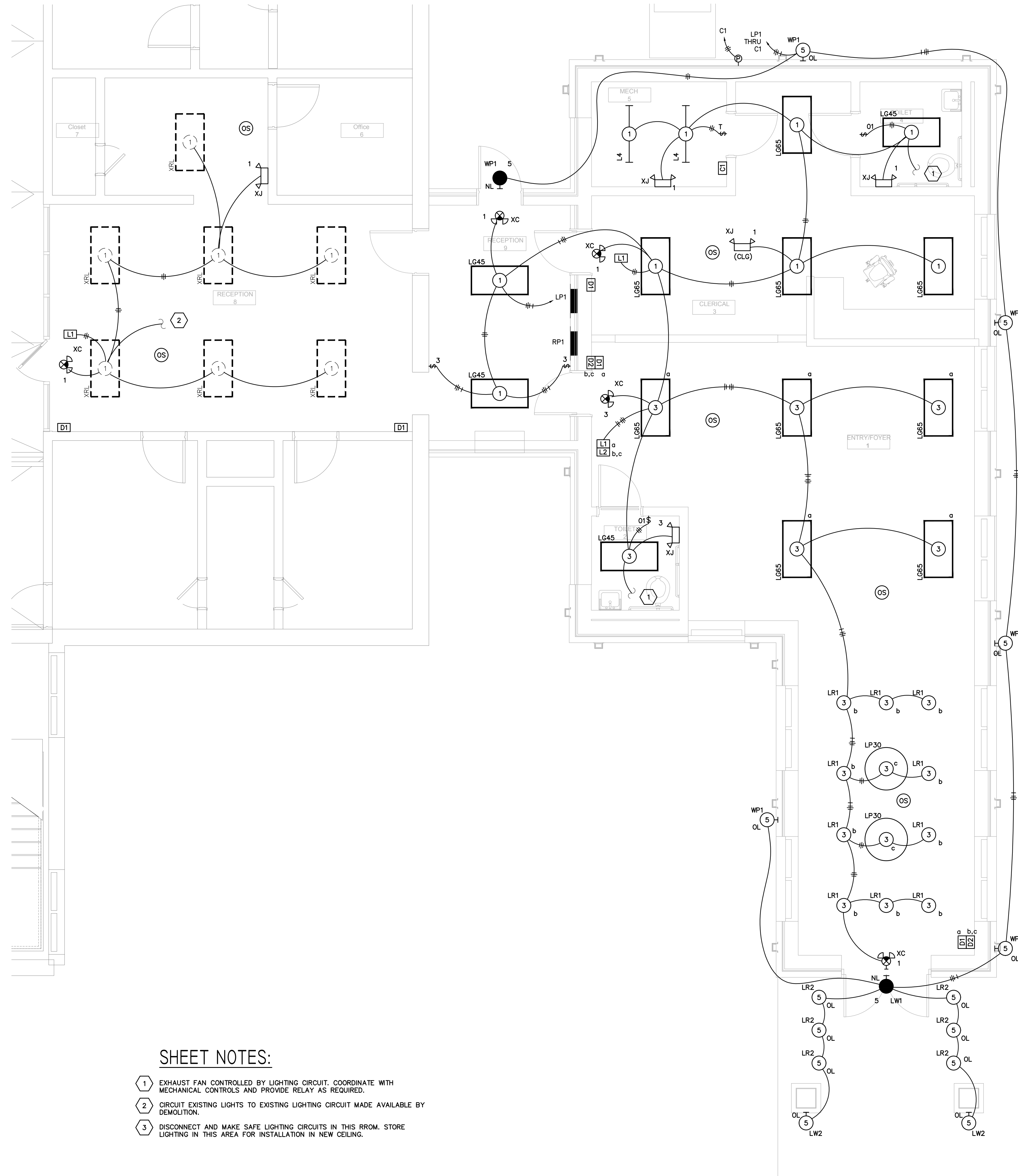
1. PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY Sidelighted AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.

**GENERAL NOTES:**

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
- 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.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- 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.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- 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.
- HUBBELL, EATON, WATT STOPPER, AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
- SEE POWER PLANS FOR PANEL LOCATIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
- COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
- COORDINATE WITH POWER PLANS FOR RECEPTACLE ROOM CONTROLLERS REQUIRED TO CONTROL RECEPTACLE CIRCUITRY.
- CONTRACTOR SHALL PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.



**FLOOR PLAN - DEMOLITION**  
SCALE: 1/4"=1'-0"

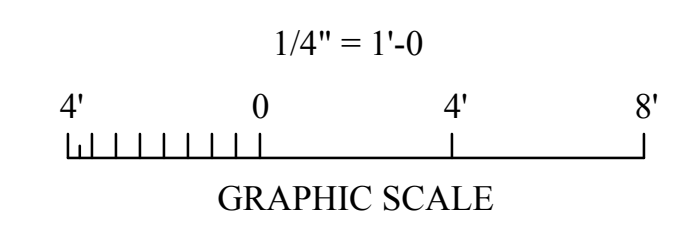


**SHEET NOTES:**

- EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT. COORDINATE WITH MECHANICAL CONTROLS AND PROVIDE RELAY AS REQUIRED.
- CIRCUIT EXISTING LIGHTS TO EXISTING LIGHTING CIRCUIT MADE AVAILABLE BY DEMOLITION.
- DISCONNECT AND MAKE SAFE LIGHTING CIRCUITS IN THIS ROOM. STORE LIGHTING IN THIS AREA FOR INSTALLATION IN NEW CEILING.



**FLOOR PLAN - LIGHTING**  
SCALE: 1/4"=1'-0"



**Gunn & Associates, P.C.**  
Consulting Engineers  
3102 Highway 14  
Millbrook, AL 36054  
Tel. 334.285.1273

1200 Providence Park, Suite 200  
Birmingham, AL 35242  
GAW22-170

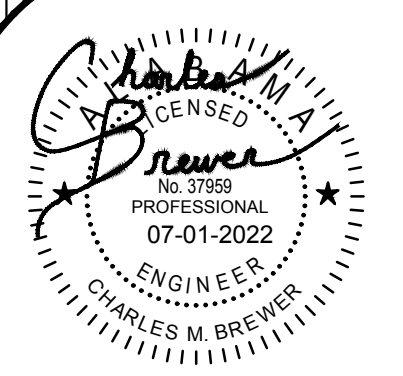
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MCKEE JOB # : 22-133  
PSCA # :  
DRAWN BY : CMB  
DATE : 07-01-22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

MORGAN COUNTY BOARD OF EDUCATION

SOMERVILLE, ALABAMA

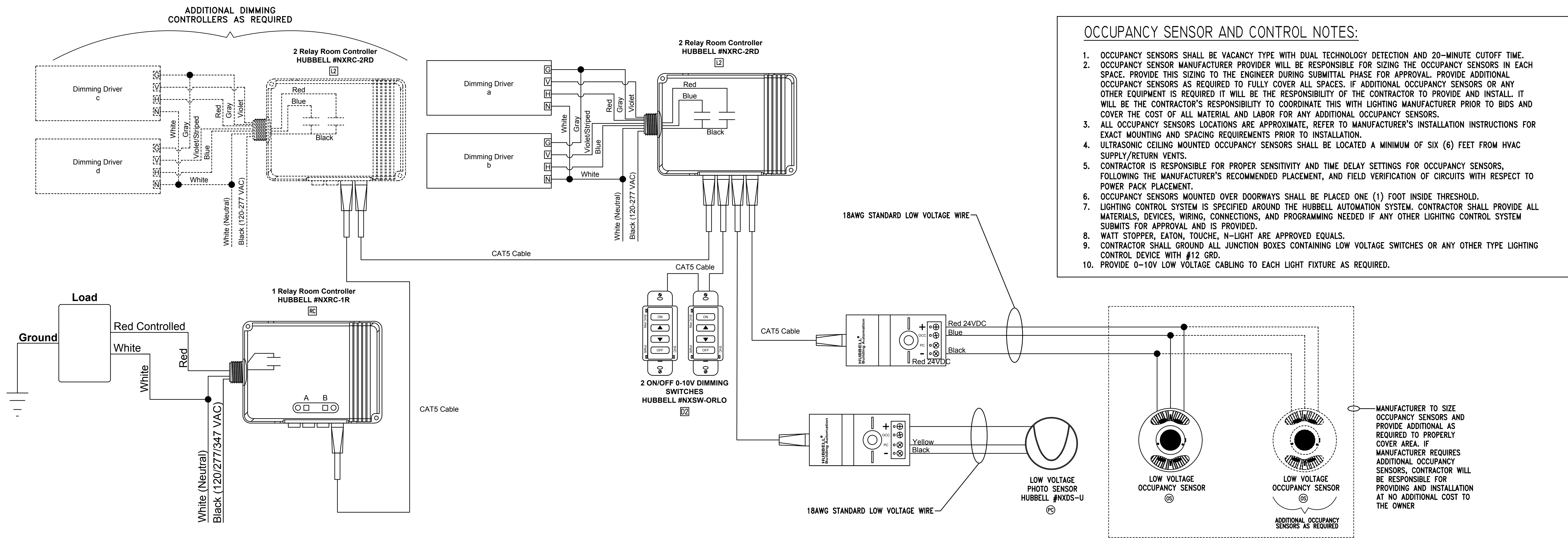


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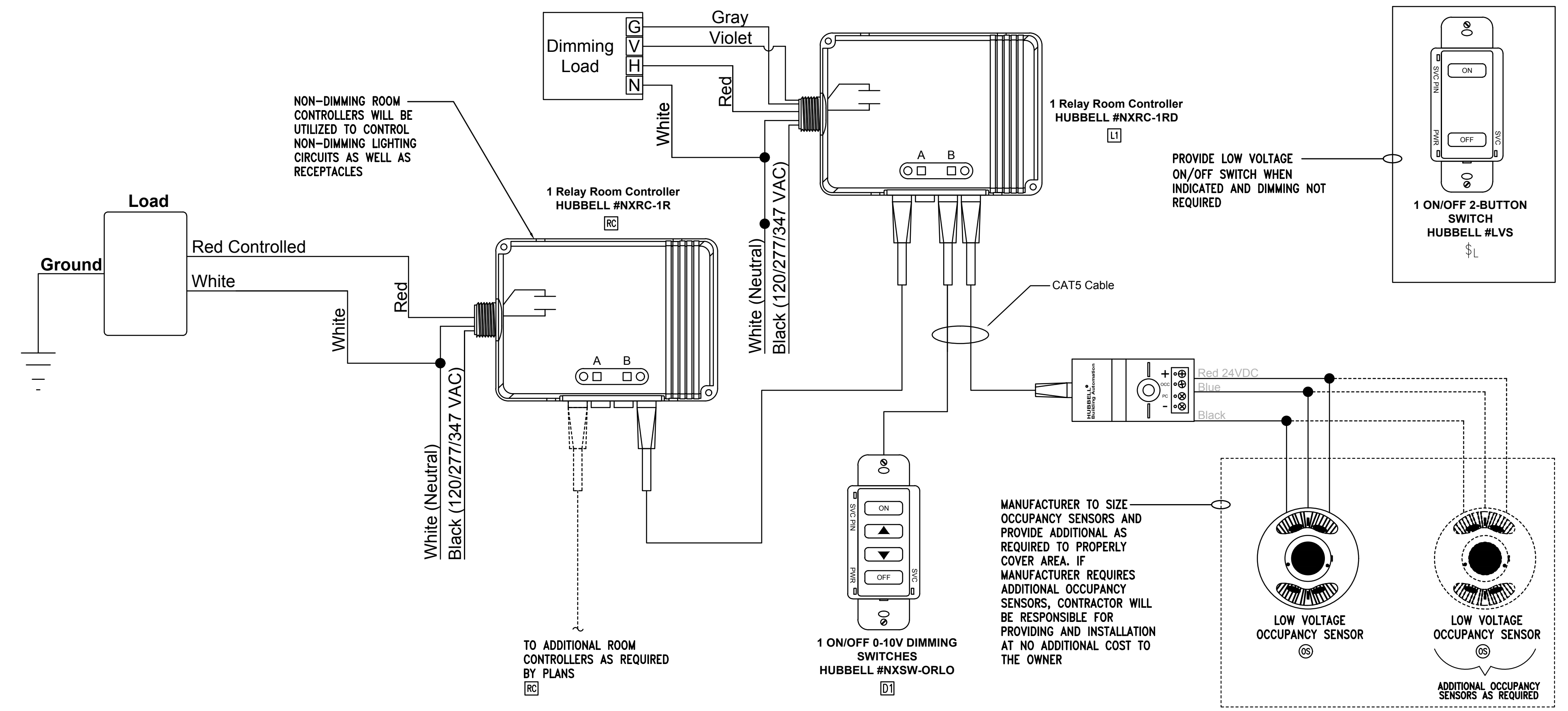
SHEET NO. : **E2.1**





- OCCUPANCY SENSOR AND CONTROL NOTES:**
- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
  - 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.
  - ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
  - ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
  - 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.
  - OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
  - 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.
  - WATT STOPPER, EATON, TOUCHEL, N-LIGHT ARE APPROVED EQUALS.
  - CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.
  - PROVIDE 0-10V LOW VOLTAGE CABLING TO EACH LIGHT FIXTURE AS REQUIRED.

1 TYPICAL MULTIPLE OCCUPANCY SENSOR, PHOTOCCELL, MULTIPLE 0-10V DIMMING ZONES DETAIL  
NO SCALE



2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM DETAIL  
NO SCALE

A NEW ADDITION AT BREWER HIGH SCHOOL

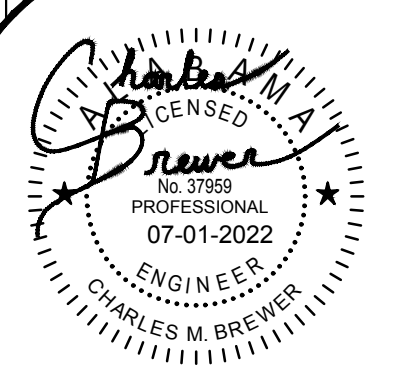
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SHEET TITLE : LIGHTING CONTROLS  
MCKEE JOB # : 22-133  
PSCA # :  
DRAWN BY : CMB  
DATE : 07-01-22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

**GA** Gunn & Associates, P.C.  
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3102 Highway 14  
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1200 Providence Park, Suite 200  
Birmingham, AL 35242  
GA#22-170

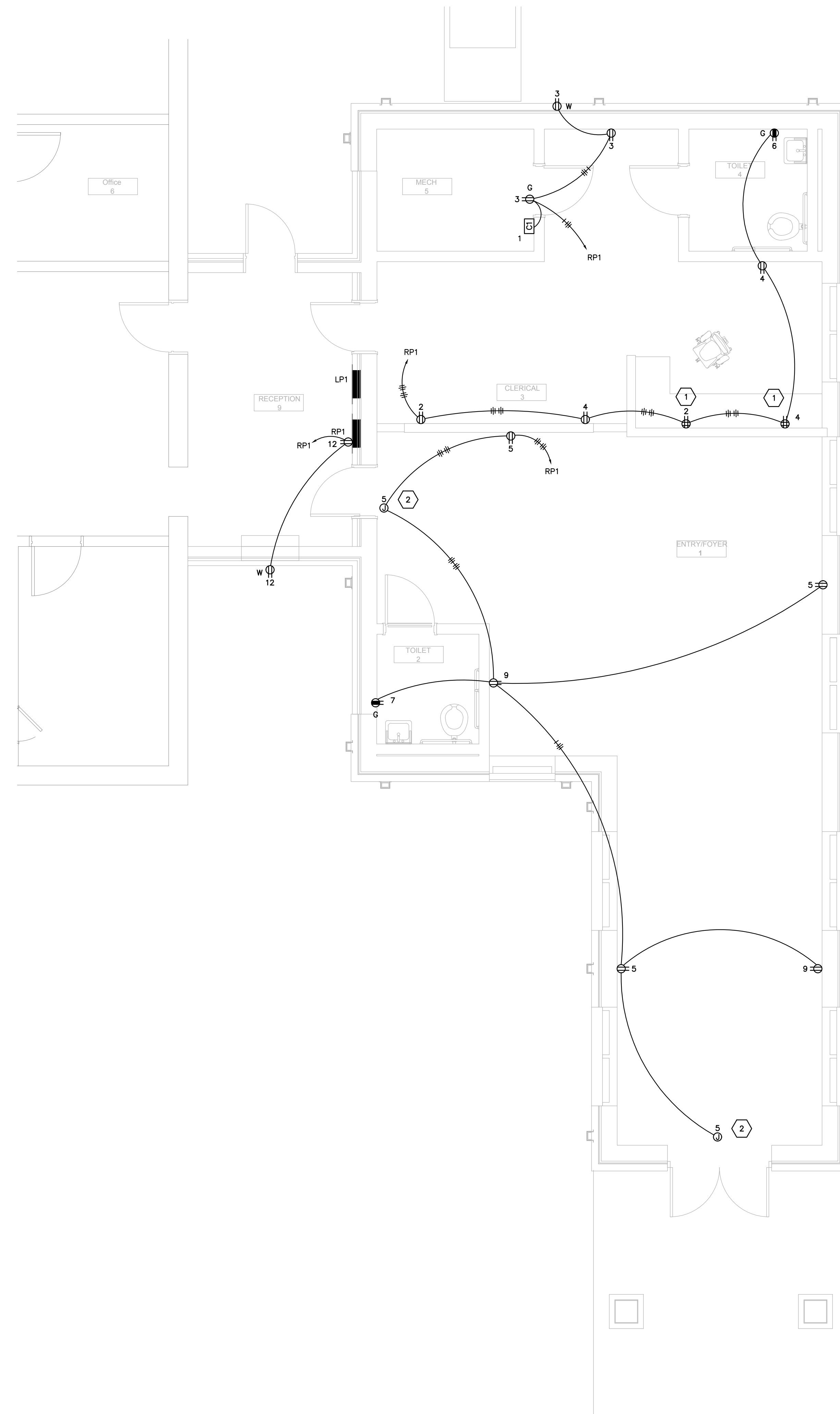
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SHEET NOTES:

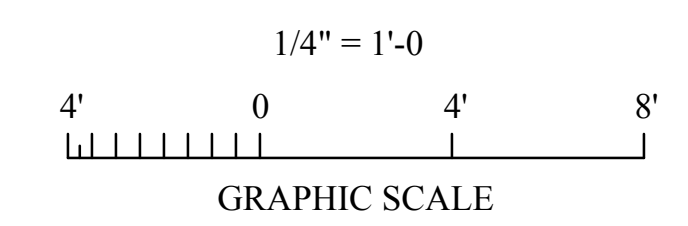
- 1 COORDINATE OUTLET LOCATIONS BELOW COUNTERTOP, IN MILLWORK.
- 2 POWER TO ELECTRIC LOCKS, SEE DETAILS ON EB.2
- 3 VERIFY LOCATION OF FIRE ALARM AND IT RACK PRIOR TO BID. MAKE ADJUSTMENTS FOR EXISTING CONDITIONS AND DISTANCES PRIOR TO BID.



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



**FLOOR PLAN - POWER**  
SCALE: 1/4"=1'-0"



**Gunn & Associates, P.C.**  
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Millbrook, AL 36054  
Tel. 334.285.1273  
1200 Providence Park, Suite 200  
Birmingham, AL 35242  
GA#22-170

A NEW ADDITION AT BREWER HIGH SCHOOL

FOR  
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**MCKEE and ASSOCIATES**  
ARCHITECTS, INC.

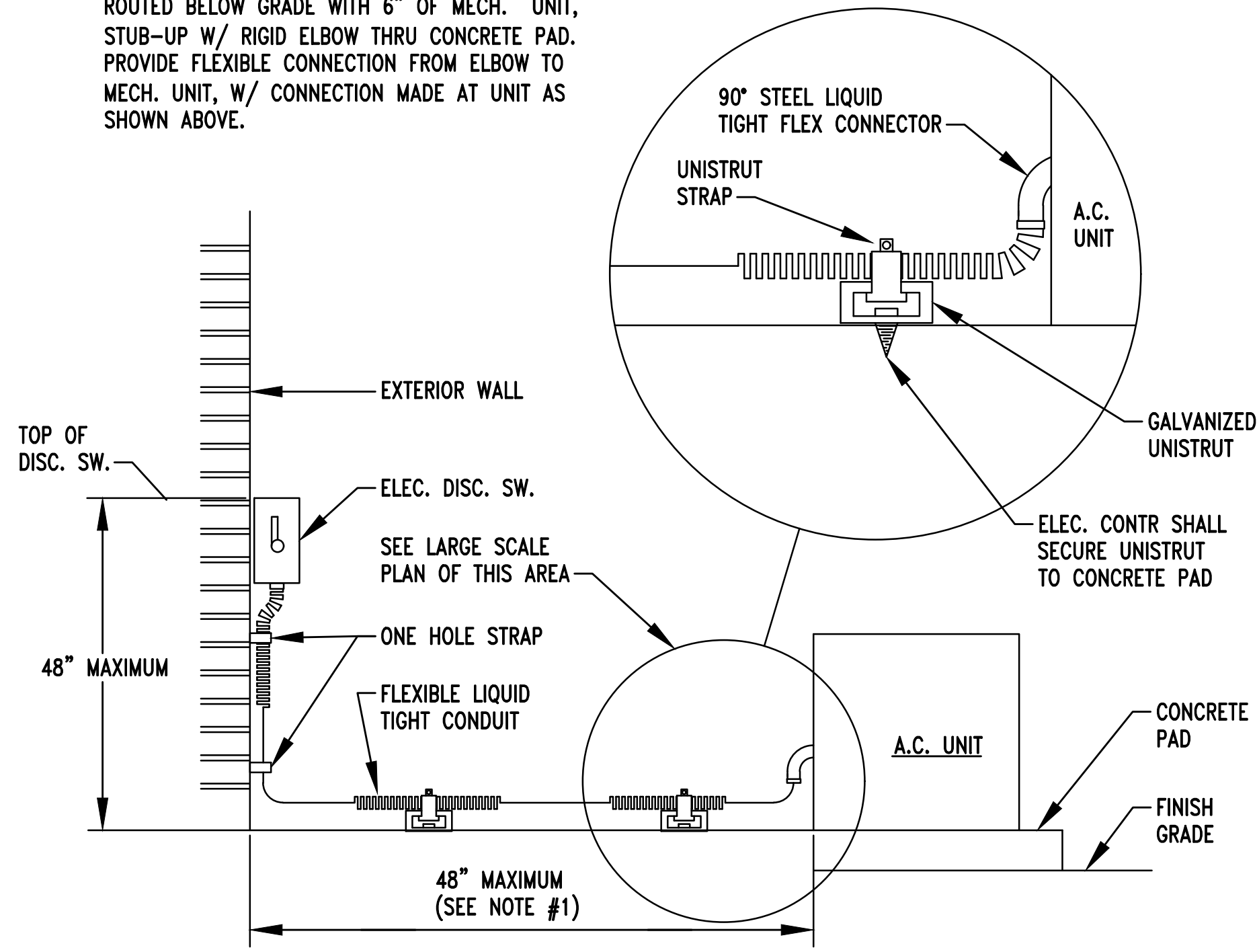
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : FLOOR PLAN - POWER & SITE PLAN  
MCKEE JOB # : 22-133  
PSCA # :  
DRAWN BY : CMB  
DATE : 07-01-22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **E3.1**

**NOTE:**  
 1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



2 MECHANICAL UNIT CONNECTION DETAIL  
 E3.2 NO SCALE

**GENERAL NOTES:**

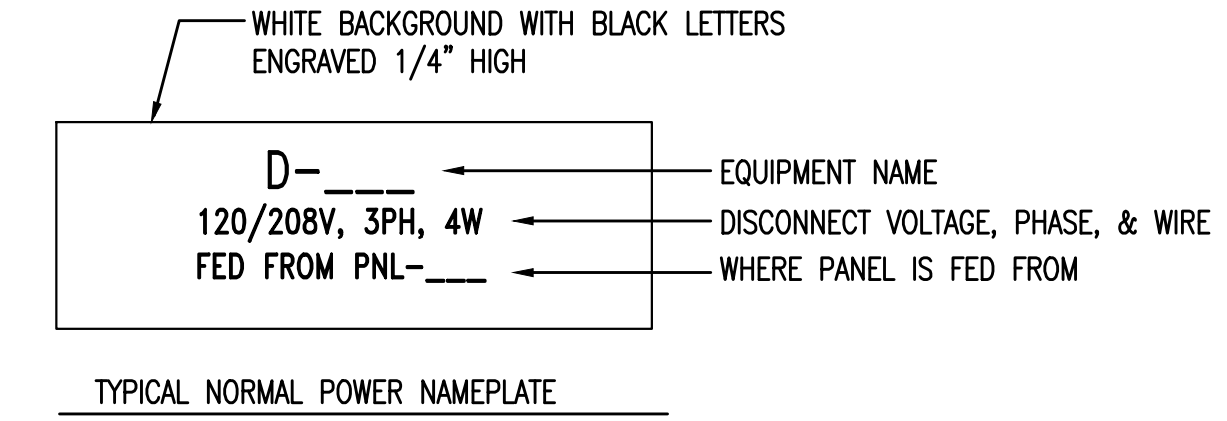
- COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
- MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
- COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT 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.
- ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
- CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (2) THIS SHEET, NO EXCEPTIONS.
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
- COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON THIS SHEET FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
- SEE DETAIL 1 THIS SHEET FOR MECHANICAL UNIT CONNECTION DETAIL.

**GENERAL NOTES:**

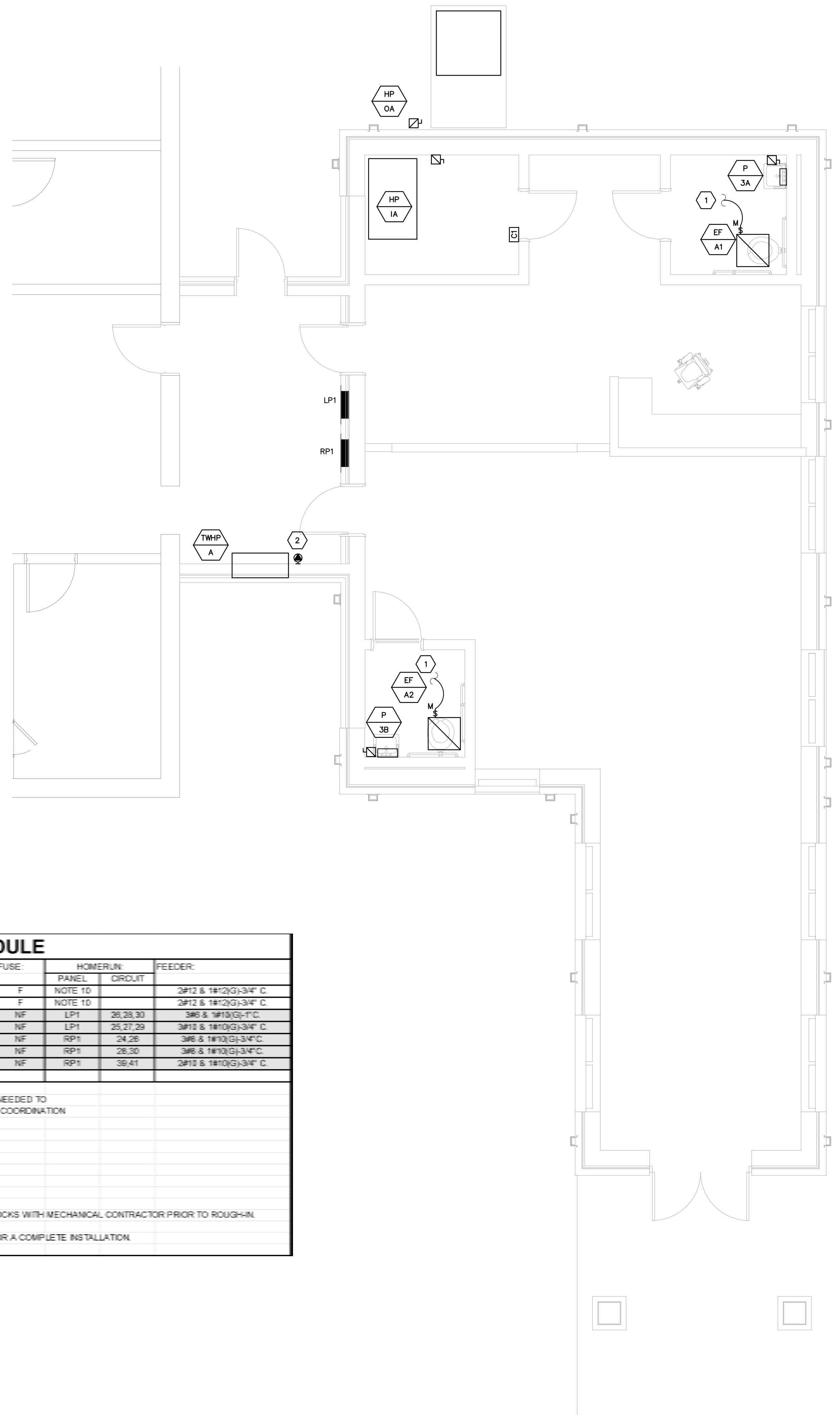
- SEE THIS SHEET FOR EQUIPMENT SCHEDULE AND ADDITIONAL INFORMATION
- SEE E3.1 FOR MAINTENANCE RECEPTACLE LOCATIONS NEAR EQUIPMENT.

**SHEET NOTES:**

- CIRCUIT EXHAUST FAN TO SWITCHED LIGHTING CIRCUIT IN SAME ROOM.
- COORDINATE OUTLET STYLE WITH EQUIPMENT CUTSHEET.



1 DETAIL - TYPICAL DISCONNECT NAMEPLATE  
 NO SCALE



**GENERAL EQUIPMENT SCHEDULE**

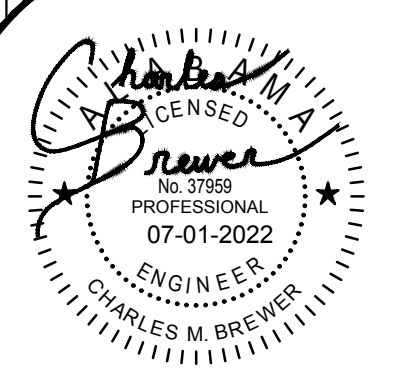
EQUIPMENT MARK	EQUIPMENT DESCRIPTION	VOLTAGE/PHASE	ELECTRICAL CHARACTERISTICS			DISCONNECT	FUSE	HOMERUN		FEEDER
			HP	KW	AMPS			PANEL	CIRCUIT	
EF-A1	EXHAUST FAN	120V, 1PH	---	---	1.0	TS	F	NOTE 10		2P12 & 1P12G-3/4" C
EF-A2	EXHAUST FAN	120V, 1PH	---	---	1.0	TS	F	NOTE 10		2P12 & 1P12G-3/4" C
HP-IA	HEAT PUMP (INDOOR)	208V, 3PH	---	---	1.5	TS	NF	LP1	26,28,30	3P6 & 1P18G-1/2" C
HP-OA	HEAT PUMP (OUTDOOR)	208V, 3PH	---	---	13.0	TS	NF	LP1	25,27,29	3P12 & 1P12G-3/4" C
P-3A	TANKLESS WATER HEATER	208V, 1PH	---	4.8(HEAT)	---	600/1	NF	RP1	24,26	3P6 & 1P12G-3/4" C
P-3B	TANKLESS WATER HEATER	208V, 1PH	---	4.8(HEAT)	---	600/1	NF	RP1	26,30	3P6 & 1P12G-3/4" C
TWHP-A	THRU-WALL HEAT PUMP	208V, 1PH	---	---	22.2	N6-30	NF	RP1	38,41	2P12 & 1P12G-3/4" C

**NOTES:**  
 1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.  
 2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.  
 3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.  
 4. "NF" - NON-FUSED  
 5. "F" - FUSED  
 6. "TS" - THERMAL STARTER WITH THERMAL OVERLOAD (TW) - WEATHERPROOF (1/36-AMP) - 36-AMP RATED)  
 7. COORDINATE WITH MECHANICAL FOR CONTROLS BY LOCAL AHJ.  
 8. "WP" - WEATHERPROOF ENCLOSURE.  
 9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.  
 10. CIRCUIT TO SWITCHED 120V LIGHTING CIRCUIT IN SAME ROOM.  
 11. INDOOR UNIT POWERED BY OUTDOOR UNIT. COORDINATE AND PROVIDE ALL REQUIRED CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLATION.

A NEW ADDITION AT BREWER HIGH SCHOOL

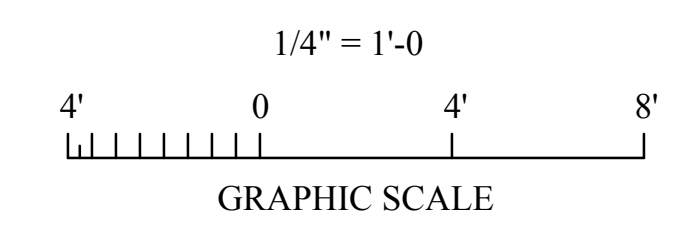
FOR  
 MORGAN COUNTY BOARD OF EDUCATION  
 SOMERVILLE, ALABAMA

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



SHEET TITLE : FLOOR PLAN - EQUIPMENT POWER  
 MCKEE JOB # : 22-133  
 PSCA # :  
 DRAWN BY : CMB  
 DATE : 07-01-22  
 REVISED DATE :  
 REVISED DATE :  
 REVISED DATE :

**FLOOR PLAN - EQUIPMENT POWER**  
 SCALE: 1/4"=1'-0"



**Gunn & Associates, P.C.**  
 Consulting Engineers  
 3102 Highway 14 Millbrook, AL 36054  
 1200 Providence Park, Suite 200 Birmingham, AL 35242  
 Tel. 334.285.1273 GA#22-170

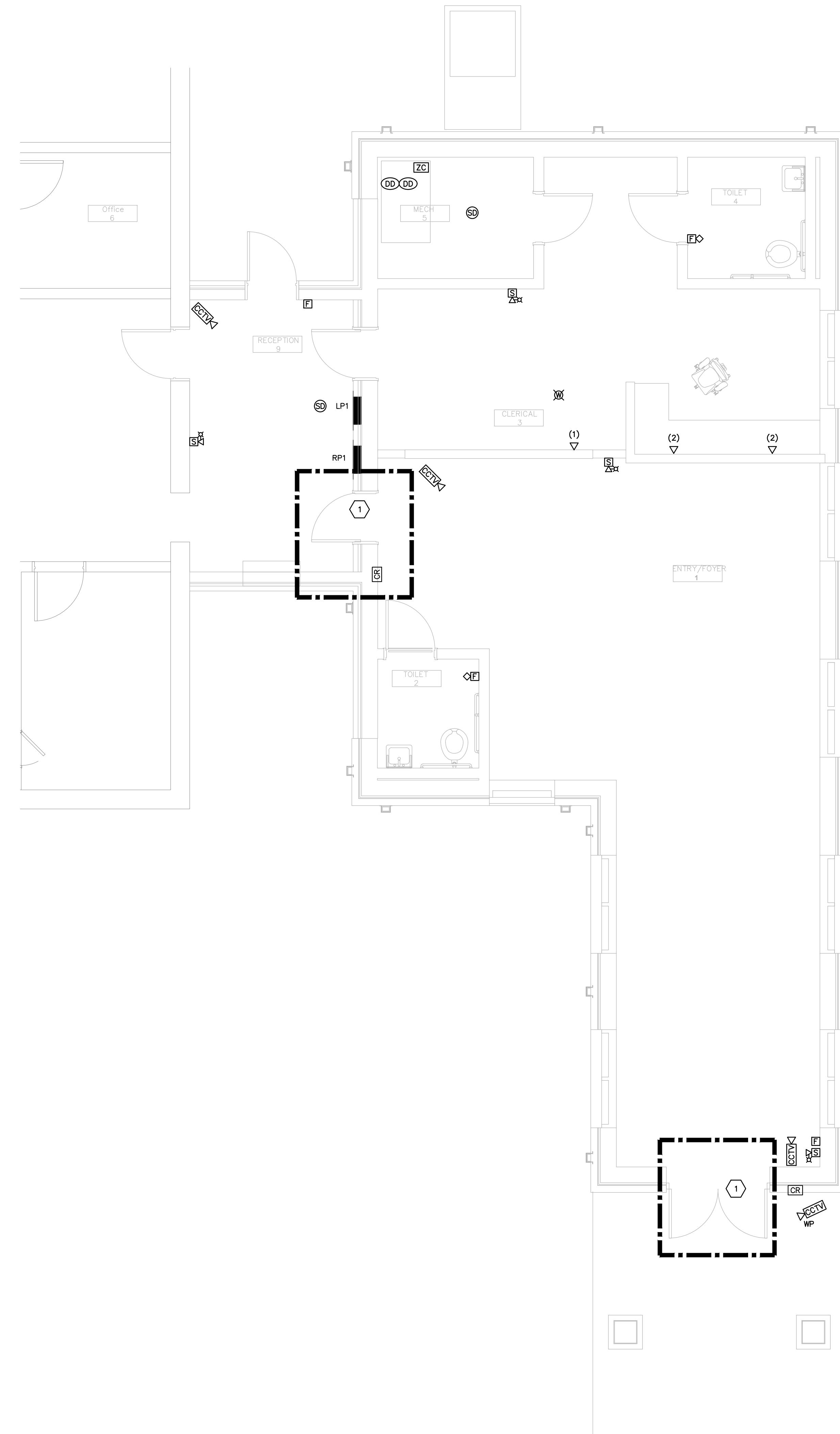
SHEET NO. : **E3.2**

**GENERAL NOTES:**

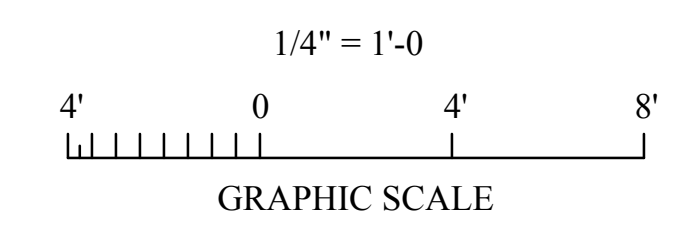
1. MOUNT ALL COMMUNICATION OUTLETS WITH 6" OF A POWER OUTLET.
2. FINAL DATA, WIFI, AND CAMERA CONNECTIONS BY OWNERS REP.
3. PROVIDE A GREEN DOT STICKER ON CEILING GRID UNDER EACH WIRELESS ACCESS POINT TO PROVIDE LOCATION TO IT STAFF. PROVIDE 15' MINIMUM OF CAT6 SLACK, COILED UP ABOVE CEILING.

**SHEET NOTES:**

1. PROVIDE RACEWAY ROUGH-IN FOR FUTURE SECURITY SYSTEM PER TYPICAL DOOR DETAIL SHEET EB.2



**FLOOR PLAN - AUXILIARY**  
SCALE: 1/4"=1'-0"



**Gunn & Associates, P.C.**  
Consulting Engineers  
3102 Highway 14  
Millbrook, AL 36054  
Tel. 334.285.1273  
1200 Providence Park, Suite 200  
Birmingham, AL 35242  
GA#22-170

A NEW ADDITION AT BREWER HIGH SCHOOL

FOR

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



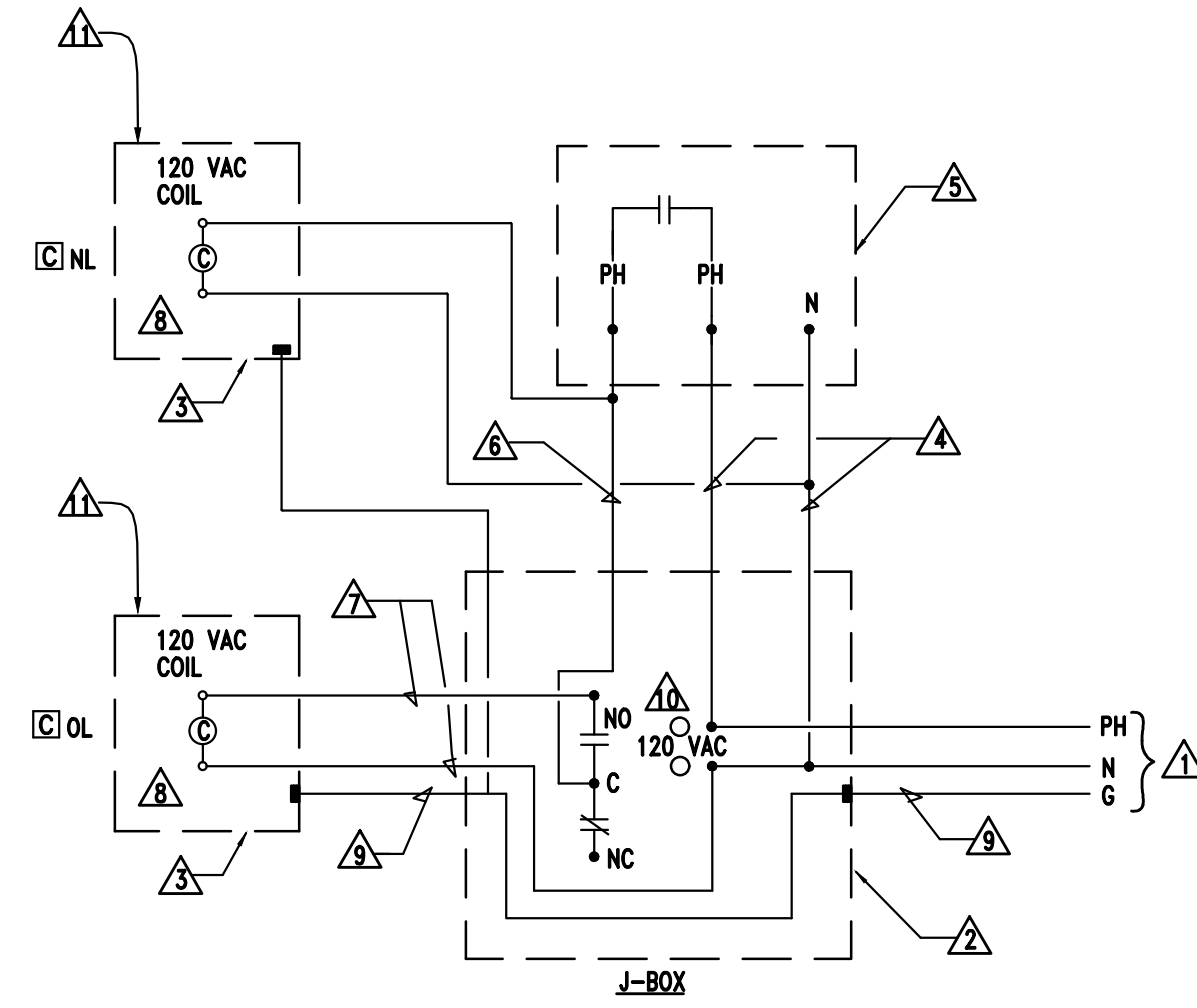
SHEET TITLE : FLOOR PLAN - AUXILIARY - LOWER LEVEL  
MCKEE JOB # : 22-133  
PSCA # :  
DRAWN BY : CMB  
DATE : 07-01-22  
REVISED DATE :  
REVISED DATE :  
REVISED DATE :

SHEET NO. : **E4.1**

**KEYED NOTES**

- ⚠ POWER SUPPLY - 120V, 1PH, 60HZ
- ⚠ TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- ⚠ CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
- ⚠ POWER TAP TO PHOTO-CELL IN GRC
- ⚠ TURN-LOCK PHOTO-CELL, SEE DETAIL
- ⚠ SWITCH LEG RETURN IN GRC
- ⚠ POWER TO CONTACTOR COIL
- ⚠ LIGHTING CONTACTOR [C] NL & [C] OL AS FOLLOWS:
  - NEMA ICS 2-2118 INDUSTRIAL DUTY TYPE
  - ELECTRICALLY OPERATED-ELECTRICALLY HELD
  - RATING AND NUMBER OF POLES INDICATED
  - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
  - FUSING FOR CONTROL CIRCUIT
- ⚠ GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM

- ⚠ DIGITAL TIME SWITCH AS FOLLOWS:
  - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SEP-DAY FEATURE
  - INPUT: 120 VAC, 60HZ
  - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
  - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
  - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
  - RELATIVE HUMIDITY: 0 TO 90% RH
  - CLOCK ACCURACY: ±2 MINUTES PER YEAR
  - LED INDICATION OF TIME AND LOAD STATUS
  - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
- ⚠ PROVIDE NUMBER OF POLES REQUIRED.



DETAIL CONTACTOR "CI" - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR  
 3 NO SCALE

**LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER NUMBER AND EQUALS:	VOLTAGE	MOUNTING:	LAMP TYPE:	LAMP QUANTITY:	DESCRIPTION:
LG45	COOPER NO. 24FP4760C COLUMBIA NO. SRP24-40LG-EDU DAYBRITE NO. 2FXP-48L840-4-D8-UNV-DIM	MVOLT	RECESSED	L.E.D. 4500 LUMEN 4200K	1 41 WATTS	RECESSED MOUNTED, EDGE LIT, L.E.D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH
LG65	COOPER NO. 24FP4440C COLUMBIA NO. SRP24-40VLEH-EDU DAYBRITE NO. 2FXP-60L840-4-D8-UNV-DIM	MVOLT	RECESSED	L.E.D. 4500 LUMEN 4200K	1 62 WATTS	RECESSED MOUNTED, EDGE LIT, L.E.D. FLAT PANEL, 2'x4' LAY-IN, WHITE FINISH
LP30	AXIS NO. SKPE-10003-SL6040-CIR-1000-80-40-SO-AP-120-DP-1 OR PRIOR APPROVED EQUAL BY COOPER OR HE WILLIAMS	MVOLT	PENDANT	L.E.D. 4000K	1 82 WATTS	CIRCLE PENDANT WITH UP/DOWN DISTRIBUTION AND FROSTED LENS. FINISH BY ARCHITECT. 30" DIAMETER CIRCLE. PROVIDE CABLING FOR BOTTOM OF FIXTURE MOUNTED 9'-0" AFF. PROVIDE WITH DIMMING
L4	COOPER NO. 48SNLED-LD5-80SL-LW-UNV-L840-CD-1 COLUMBIA NO. LGL4-40ML-EDU PHILIPS NO. F5845L840JUNV-DIM	MVOLT	SURFACE	L.E.D. 4000K	1 5200 LUMEN 48 WATTS	WALL OR SURFACE MOUNTED LINEAR L.E.D. LUMINAIRE, 4'-0" L, WHITE FINISH WITH FROSTED LENS
LW1	COOPER NO. IST-SA1-8740-U-T4W-XX HUBBELL NO. TRP2-24L-50-4K7-3-277-XXE-PC PHILIPS NO. 101L-32L-S30-NW-G1-3-EBPC-XXX-OD-XX-PC	MVOLT	WALL	L.E.D. 4000K	1 3400 LUMEN 25 WATTS	EXTERIOR WALL MOUNTED L.E.D. LUMINAIRE WITH CUT OFF, FINISH AS SELECTED BY ARCHITECT. PROVIDE WITH BATTERY PACK WHERE INDICATED ON PLANS. MOUNTED 8'-0" AFF.
LW2	GOTHAM NO. IC04UDWC-40K-45-AR-LSS-40D-SNTANG-XX-U20LM-U40D-USNTANG-XXM-VOLT-GZ10-WL-DOB OR PRIOR APPROVED EQUAL BY HUBBELL OR COOPER	MVOLT	WALL	L.E.D. 4000K	1 4500 LUMEN 73 WATTS	EXTERIOR WALL MOUNTED L.E.D. UP/DOWN CYLINDER WET LOCATION RATED WITH FINISH BY ARCHITECT. VERIFY ELEVATIONS PRIOR TO ROUGH-IN.
LR1	COOPER NO. LD48-30-D010-8040-M-L-UNV OR PRIOR APPROVED EQUAL BY HUBBELL OR HE WILLIAMS	MVOLT	RECESSED	L.E.D. 4000K	1 3000 LUMEN 31 WATTS	LED RECESSED CAN LIGHT - 4" DIA, FLANGED WITH CLEAR LENS AND MEDIUM THROW.
LR2	COOPER NO. LD48-30-D010-8040-N-L-UNV OR PRIOR APPROVED EQUAL BY HUBBELL OR HE WILLIAMS	MVOLT	RECESSED	L.E.D. 4000K	1 3000 LUMEN 31 WATTS	DAMP LOCATION RATED LED RECESSED CAN LIGHT - 4" DIA, FLANGED WITH CLEAR LENS AND NARROW THROW.
WP1	COOPER NO. IST-SA1-ET40-U-T4W-XX HUBBELL NO. TRP2-24L-50-4K7-3-277-XXE PHILIPS NO. 101L-32L-S30-NW-G1-3-EBPC-XXX-OD-XX	MVOLT	WALL	L.E.D. 4000K	1 5800 LUMEN 58 WATTS	EXTERIOR WALL MOUNTED L.E.D. LUMINAIRE WITH CUT OFF, FINISH AS SELECTED BY ARCHITECT. MOUNTED 18'-0" ABOVE GRADE. VERIFY WITH ARCH PRIOR TO ROUGH-IN.
XC	LITHONIA NO. LHGM-S-W-3-R-HO-L-POBVS ; WIREGUARDS IN GYM AREAS OR PRIOR APPROVED EQUAL BY EMERGLITE, MCPHLBEN, OR PRESCLUTE	MVOLT	CEILING/ WALL	LED 1000 LUMENS	1 10 WATTS	THERMOPLASTIC 1000-LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS. PROVIDE WITH EMERGENCY BATTERY. PROVIDE WIREGUARDS IN GYM.
XJ	HOLOPHANE NO. CQZQL-UVOLT-LP-SDRT. OR PRIOR APPROVED EQUAL BY HUBBELL AND PHILIPS	MVOLT	WALL	LED 1000 LUMENS 10 WATTS	1 10 WATTS	WALL MOUNTED, ADJUSTABLE HEAD, LED EMERGENCY EGRESS LIGHT FIXTURE WITH SELF-CONTAINED EMERGENCY BATTERY AND DIAGNOSTICS. PROVIDE WITH WIRE CAGE.

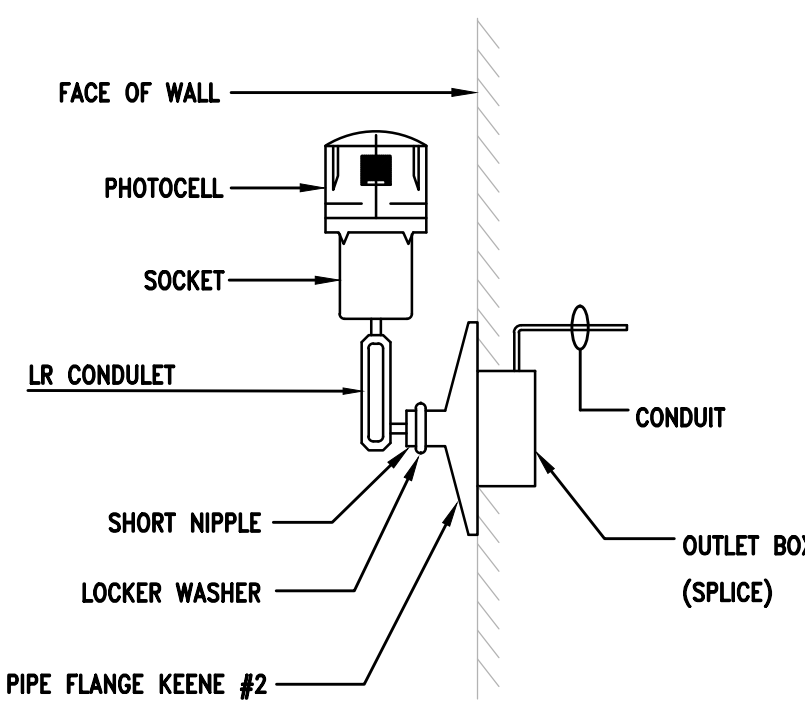
- NOTES:
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
  - COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
  - PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90-MINUTES.
  - 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.
  - ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
  - PROVIDE ALL 0-10V DIMMING BRANCH CIRCUITING REQUIRED.

**LUMINAIRE NOTES:**

- 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.
- 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.
- ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
- ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- 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.
- ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
- ALL FLUORESCENT LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
- PROVIDE ALL DUAL SWITCHED LUMINAIRES WITH DUAL BALLAST.
- LUMINAIRES WITH TWO SUB-SCRIPTS AN "a" AND "b" SHALL HAVE OUTSIDE TWO LAMPS CONTROLLED BY SWITCH OR RELAY POLE "a" AND INSIDE LAMP OR LAMPS CONTROLLED BY SWITCH OR RELAY POLE "b". SIMILARLY FOR OTHER SETS OF SUB-SCRIPTS SUCH AS "c, d, e, f, etc."
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- 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.
- 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.

**NOTES**

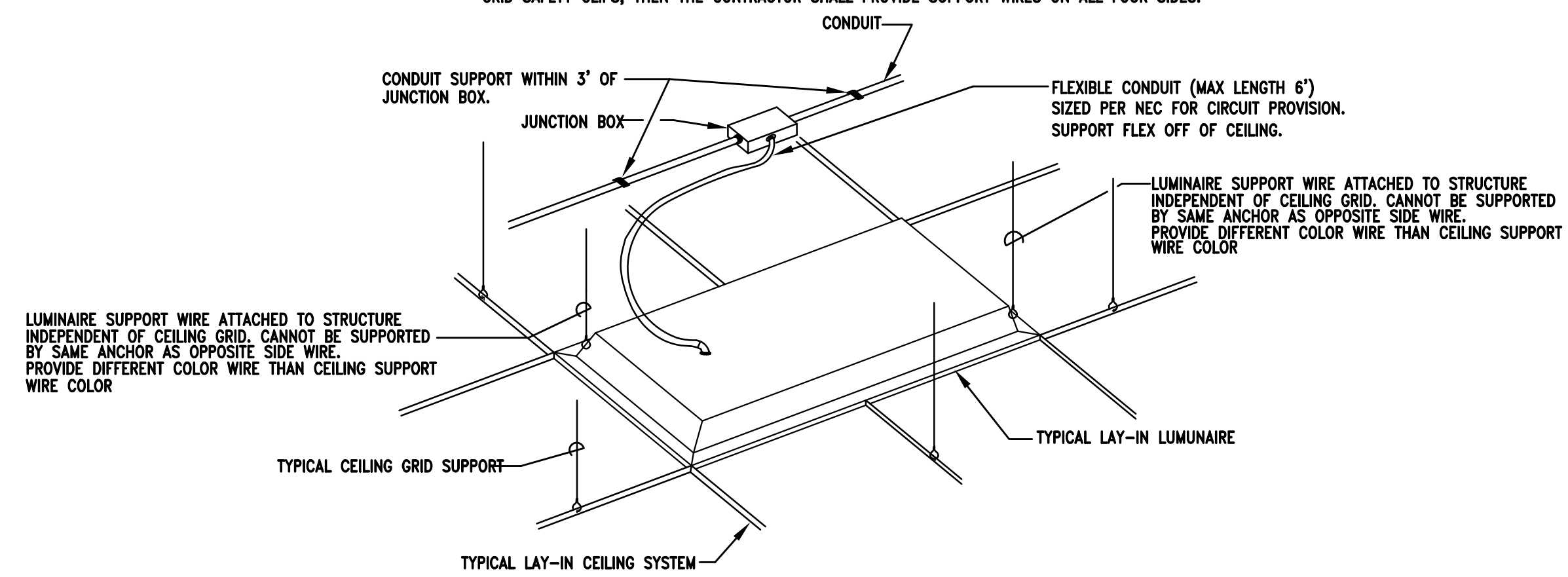
- PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
- COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
- PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR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



1 NO SCALE  
 DETAIL - INSTALLATION OF PHOTO-CELL

**NOTES:**

- 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.
- 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.
- 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.
- 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.
- 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.



2 NO SCALE  
 DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION

A NEW ADDITION AT BREWER HIGH SCHOOL

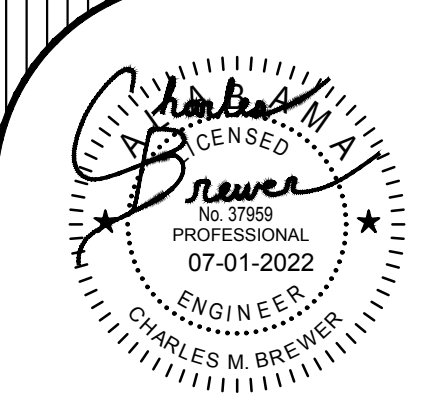
FOR

MORGAN COUNTY BOARD OF EDUCATION

SOMERVILLE, ALABAMA

MCKEE and ASSOCIATES ARCHITECTS, INC.

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



SHEET TITLE : LUMINAIRE SCHEDULE AND NOTES  
 MCKEE JOB # : 22-133  
 PSCA # :  
 DRAWN BY : CMB  
 DATE : 07-01-22  
 REVISED DATE :  
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**G** Gunn & Associates, P.C.  
 Consulting Engineers  
 3102 Highway 14 Millbrook, AL 36054  
 1200 Providence Park, Suite 200 Birmingham, AL 35242  
 Tel. 334.285.1273 GA#22-170

SHEET NO. : E5.1

A NEW ADDITION AT BREWER HIGH SCHOOL

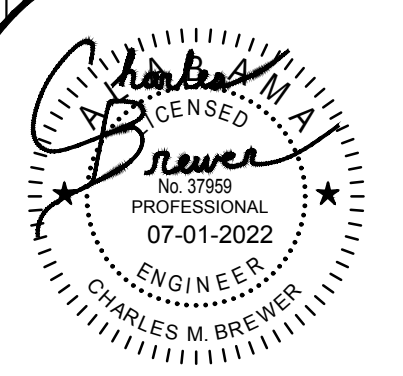
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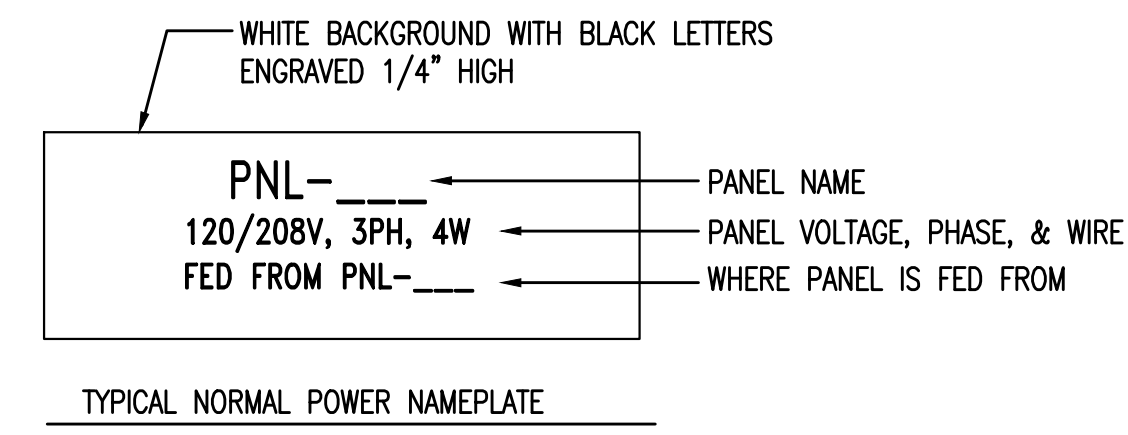


PANEL - LP1												
TYPE: 125A MAIN CIRCUIT BREAKER			AIC: 22,000 AMPERES			MOUNTED: RECESSED - NEMA 1			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
LIGHTING	463			20	1	1	2					BUSSED SPACE
LIGHTING		825		20	1	3	4					BUSSED SPACE
EXTERIOR LIGHTING			705	20	1	5	6					BUSSED SPACE
SPARE	0			20	1	7	8					BUSSED SPACE
SPARE	0	0		20	1	9	10					BUSSED SPACE
SPARE			0	20	1	11	12					BUSSED SPACE
SPARE	0			20	1	13	14					BUSSED SPACE
SPARE		0		20	1	15	16					BUSSED SPACE
SPARE	0		0	20	1	17	18					BUSSED SPACE
SPARE			0	20	1	19	20					BUSSED SPACE
SPARE	0			20	1	21	22					BUSSED SPACE
SPARE			0	20	1	23	24					BUSSED SPACE
HP-0A	4,571			30		25	26	50	9,275			HP-1A
(OUTDOOR HEAT PUMP)		4,571				27	28		9,275			(INDOOR HEAT PUMP)
			4,571			29	30			9,275		
SUB TOTAL (VA)	5,034	5,396	5,276						9,275	9,275	9,275	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	14,309 (VA)			NOTES:								
TOTAL LOAD PHASE B:	14,671 (VA)			1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:	14,551 (VA)			2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:	43,531 (VA) =			52 AMPS								

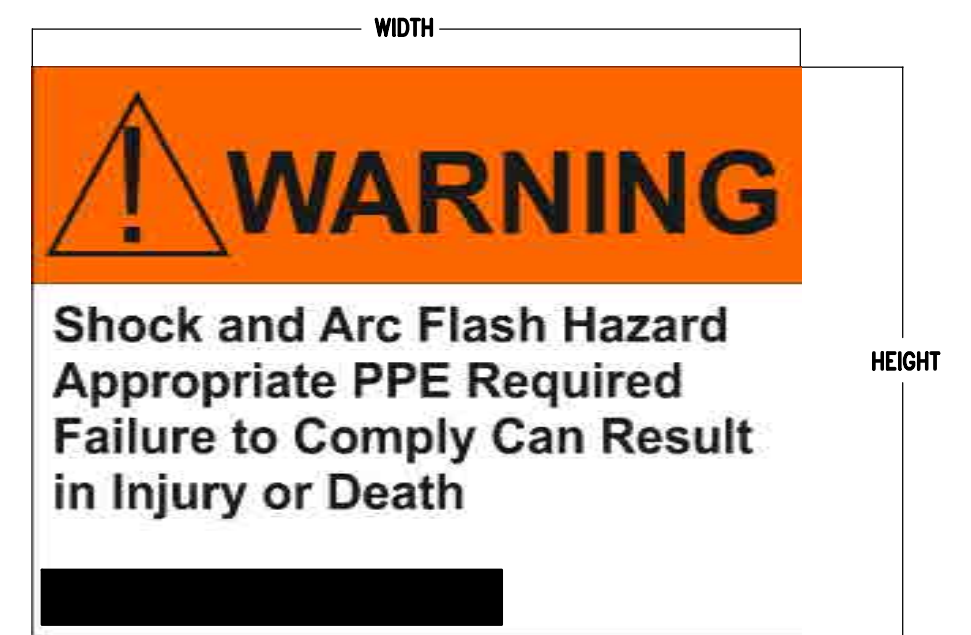
PANEL - RP1												
TYPE: 125A MAIN CIRCUIT BREAKER			AIC: 22,000 AMPERES			MOUNTED: RECESSED - NEMA 1			VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE			
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
CONTACTOR	200			20	1	1	2	20	1	600		RECEPT
RECEPT		600		20	1	3	4	20	1	600		RECEPT
RECEPT			800	20	1	5	6	20	1		200	RECEPT
RECEPT	200			20	1	7	8	20	1	0		SPARE
RECEPT		600		20	1	9	10	20	1	0		SPARE
BUSSED SPACE						11	12	20	1			SPARE
BUSSED SPACE						13	14	20	1	0		SPARE
BUSSED SPACE						15	16	20	1		0	SPARE
BUSSED SPACE						17	18	20	1			SPARE
BUSSED SPACE						19	20	20	1	0		SPARE
BUSSED SPACE						21	22	20	1		0	SPARE
BUSSED SPACE						23	24	30				P-3A
TWHP-A		2,309		30		25	26	30	2	2,450		(WATER HEATER)
			2,309		2	27	28	30		2,450		P-3B
						29	30		2		2,450	(WATER HEATER)
SUB TOTAL (VA)	400	3,509	3,109						3,050	3,250	5,100	SUB TOTAL (VA)
TOTAL LOAD PHASE A:	3,450 (VA)			NOTES:								
TOTAL LOAD PHASE B:	6,759 (VA)			1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.								
TOTAL LOAD PHASE C:	8,209 (VA)			2. PROVIDE ARC FAULT LABEL PER DETAIL.								
TOTAL LOAD:	18,418 (VA) =			51 AMPS								

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.
- ALL PANELBOARDS 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.
- ALL CIRCUIT BREAKERS 1200 AMPS AND UP SHALL COMPLY WITH NEC ARTICLE 240.87 ARC ENERGY REDUCTION.



1  
E5.2  
NO SCALE  
DETAIL - TYPICAL PANELBOARD NAMEPLATE



- 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  
E5.2  
NO SCALE  
ARC FLASH WARNING LABELS

**GA** Gunn & Associates, P.C.  
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SHEET TITLE : PANELBOARD SCHEDULES AND NOTES

MCKEE JOB # : 22-133

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**FIRE ALARM SYSTEM NOTES:**

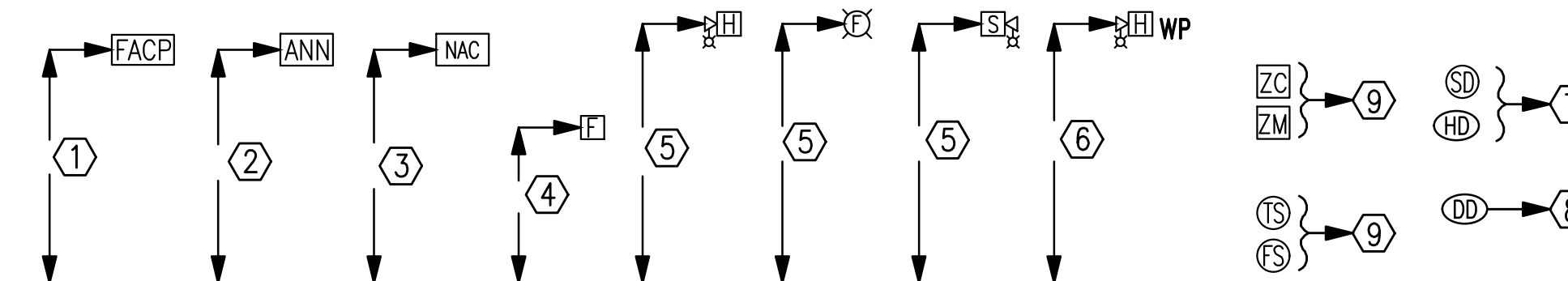
1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:  
PRIMARY POWER - 120V AC  
NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC  
SIGNALLING LINE CIRCUIT (SLC) - 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. THE CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE AUDIBILITY CALCULATIONS INDICATING COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF NFPA 72 AND THE IBC. THE CONTRACT DRAWINGS INDICATE A MINIMUM DESIGN REQUIRED TO COMPLY WITH APPLICABLE CODES. HOWEVER, SINCE DEVICES VARY FROM MANUFACTURER TO MANUFACTURER THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ANY/ALL ADDITIONAL DEVICES AS REQUIRED TO PROVIDE AUDIBILITY AND VISIBILITY LEVELS THAT COMPLY WITH APPLICABLE SECTIONS OF NFPA 72 AND IBC.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.
18. "CLG" DENOTES A CEILING MOUNTED DEVICE.
19. SEE STANDARD MOUNTING HEIGHT INSTRUCTIONS ON DETAILS ON THIS SHEET.
20. CONTRACTOR OR THEIR FIRE ALARM SYSTEM VENDOR SHALL PROVIDE SMOKE DETECTOR REPORTS AT THE FINAL TESTING OF THE FIRE ALARM SYSTEM TO SHOW THAT ALL SMOKE DETECTORS ARE LESS THAN 10% DIRTY. ANY SMOKE DETECTOR GREATER THAN 10% DIRTY SHALL BE CLEANED OR REPLACED UNTIL VALUE IS LESS THAN 10%.

**EMERGENCY RADIO SYSTEM:**

A TWO-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM UTILIZING A BI-DIRECTIONAL AMPLIFIER (BDA) SOLUTION WILL NOT BE REQUIRED AT THIS LOCATION

**FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:**

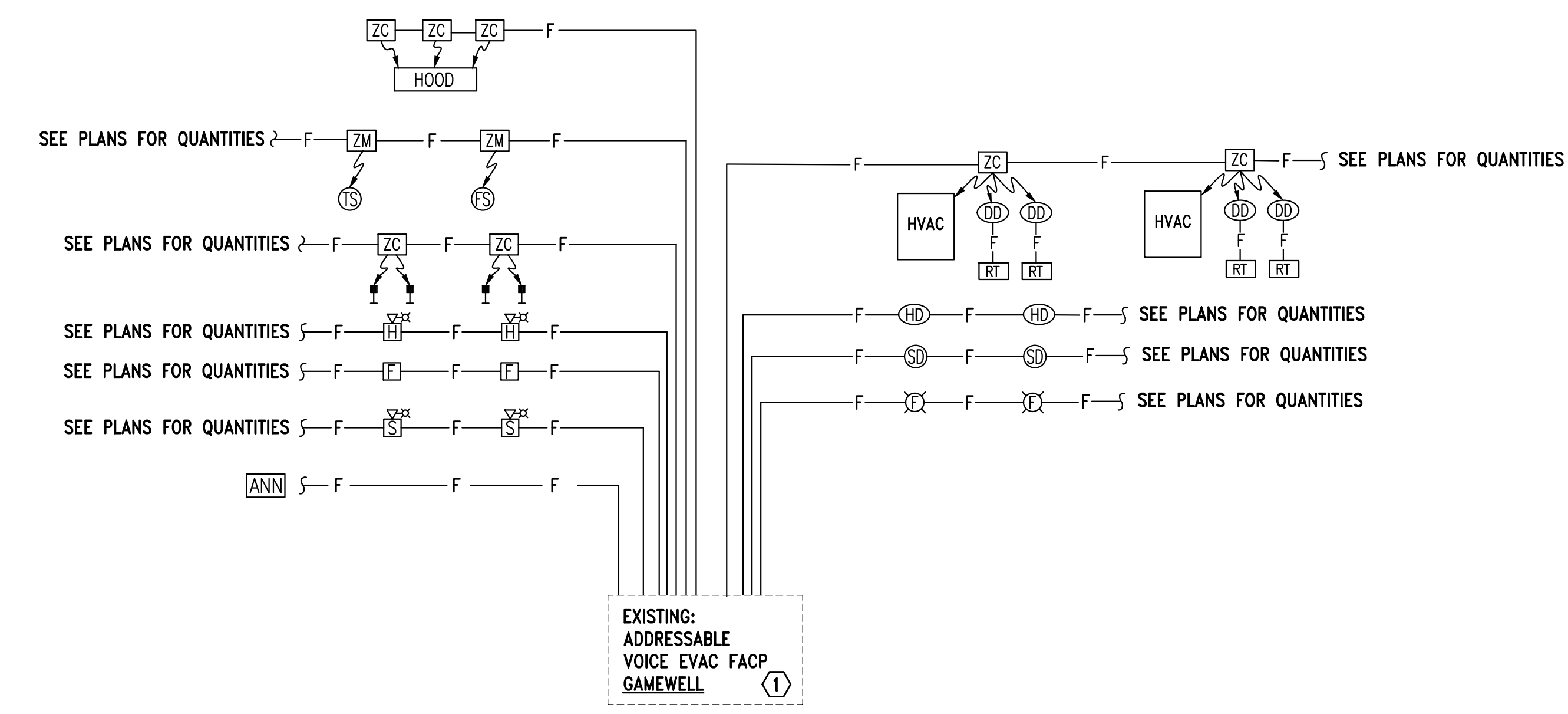
- 1 MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
- 2 MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
- 3 REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
- 4 MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
- 5 ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
- 6 WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
- 7 SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
- 8 DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- 9 ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3- FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.



1 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS  
NO SCALE

**SHEET NOTES:**

- 1 MAINTAIN EXISTING FIRE ALARM SYSTEM AND ADD DEVICES AS INDICATED ON PLANES TO EXISTING SYSTEM. PROVIDE ADDITIONAL EXPANSION CARDS AND NAC PANELS AS REQUIRED.



2 FIRE ALARM RISER DIAGRAM - EXISTING SCHOOL  
NO SCALE

A NEW ADDITION AT BREWER HIGH SCHOOL

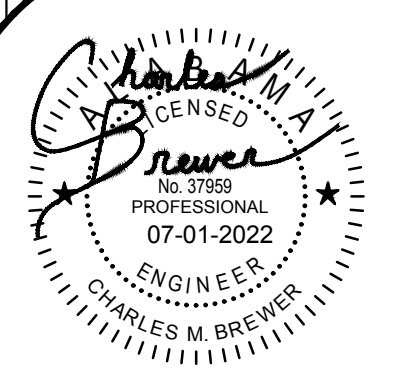
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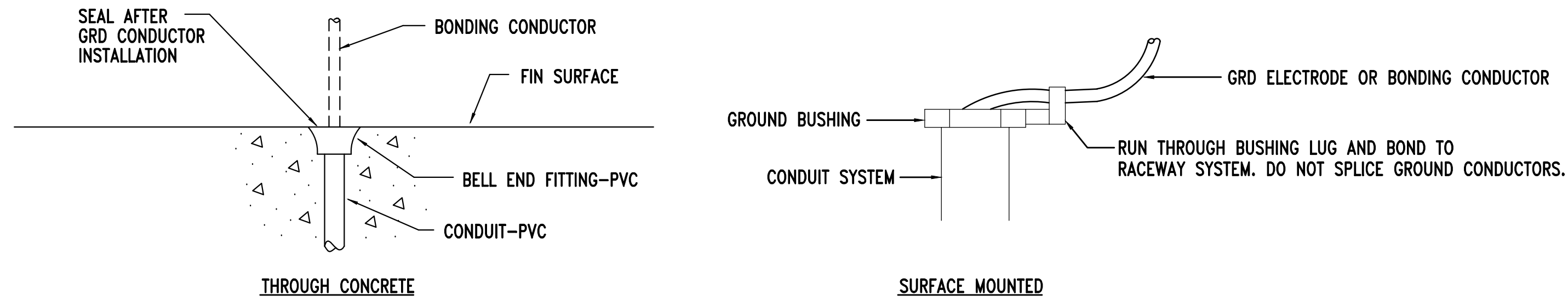
SHEET TITLE : FIRE ALARM RISER AND NOTES  
MCKEE JOB # : 22-133  
PSCA # :  
DRAWN BY : CMB  
DATE : 07-01-22  
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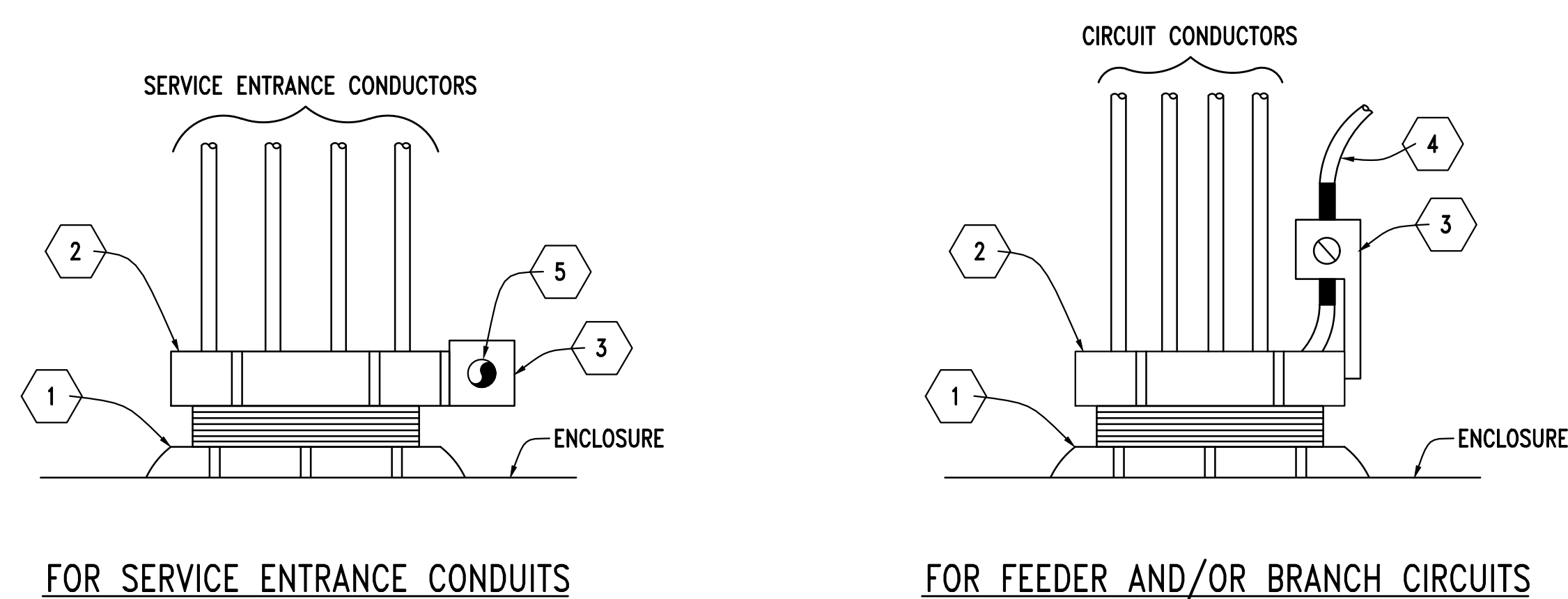
SHEET NO. : E6.1

**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.



2  
E7.1 NO SCALE  
DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM



**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.

3  
E7.1 NO SCALE  
DETAIL - TYPICAL GROUND BUSHING INSTALLATION

**POWER RISER DIAGRAM NOTES:**

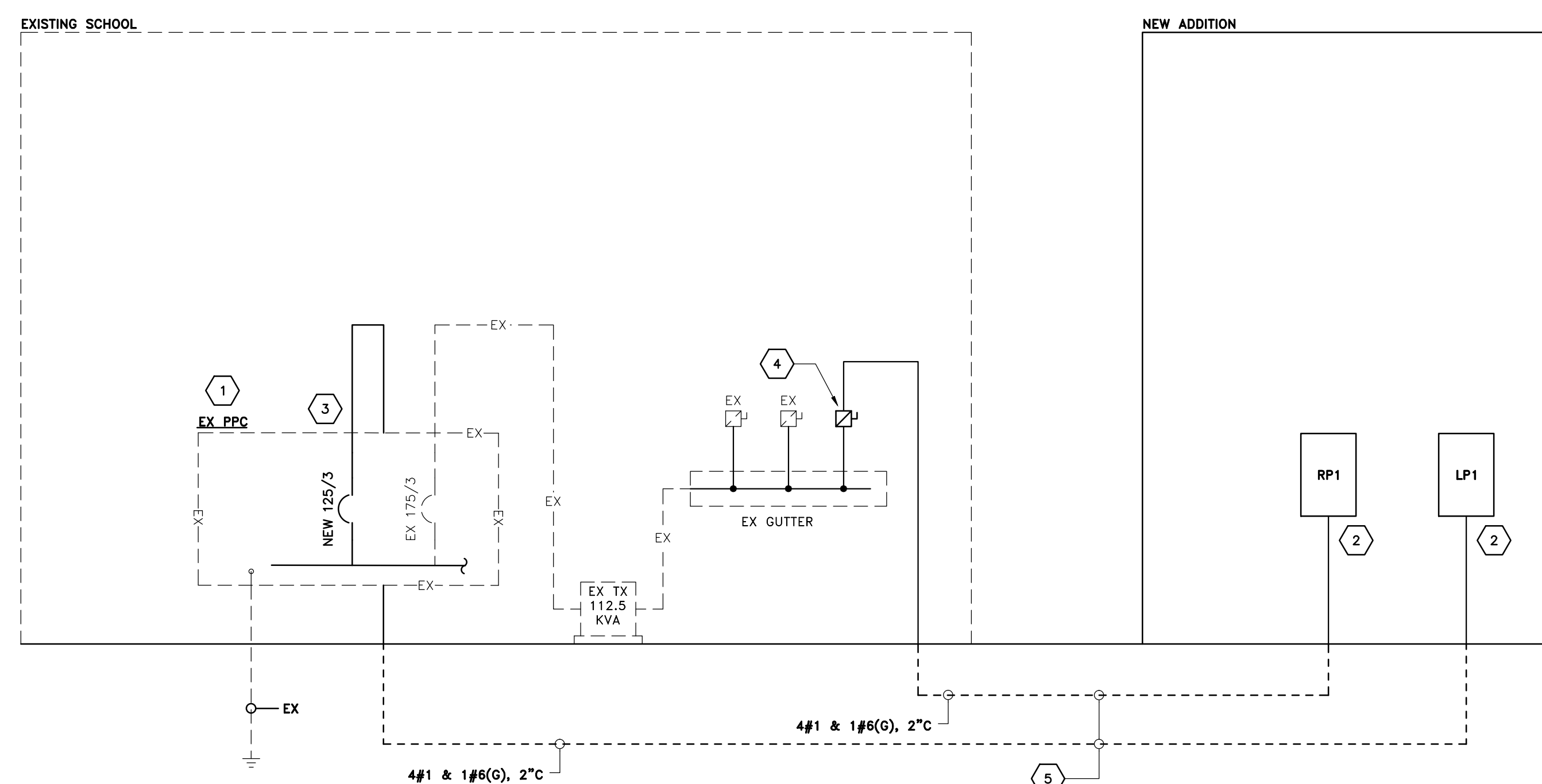
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL 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 BASED 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 E7.02 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.

**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.

**SHEET NOTES:**

- 1 ELECTRICAL CONTRACTOR TO COORDINATE SHUTDOWNS AND ANY ADDITIONAL ITEMS WITH UTILITY. COORDINATE WITH SCHOOL OFFICIALS A MIN. OF 2 WEEKS PRIOR.
- 2 SEE PANEL SCHEDULES FOR ADDITIONAL BREAKER COORDINATION.
- 3 EXISTING PANEL P2C - 800A, M.L.O. 277/480V, 3PH, 4W, (SQUARE D) PROVIDE NEW BREAKER AS INDICATED ON RISER. (65KAC)
- 4 FUSED DISCONNECT - 120/280V, 200/3/1, F-125. PROVIDE INSULATED POLARIS BLOCKS FOR CONNECTION TO CABLING IN EXISTING GUTTER.
- 5 SEE SITE PLAN ON E5.1 FOR PATH OF CONDUITS.



1  
E7.1 NO SCALE  
RISER DIAGRAM POWER DISTRIBUTION - NEW WORK

A NEW ADDITION AT BREWER HIGH SCHOOL

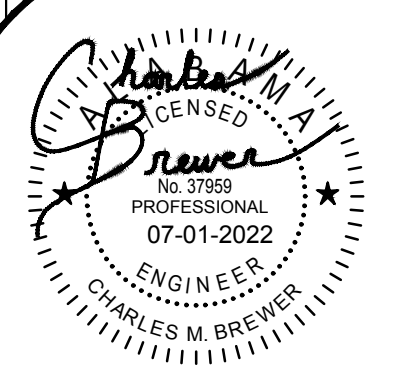
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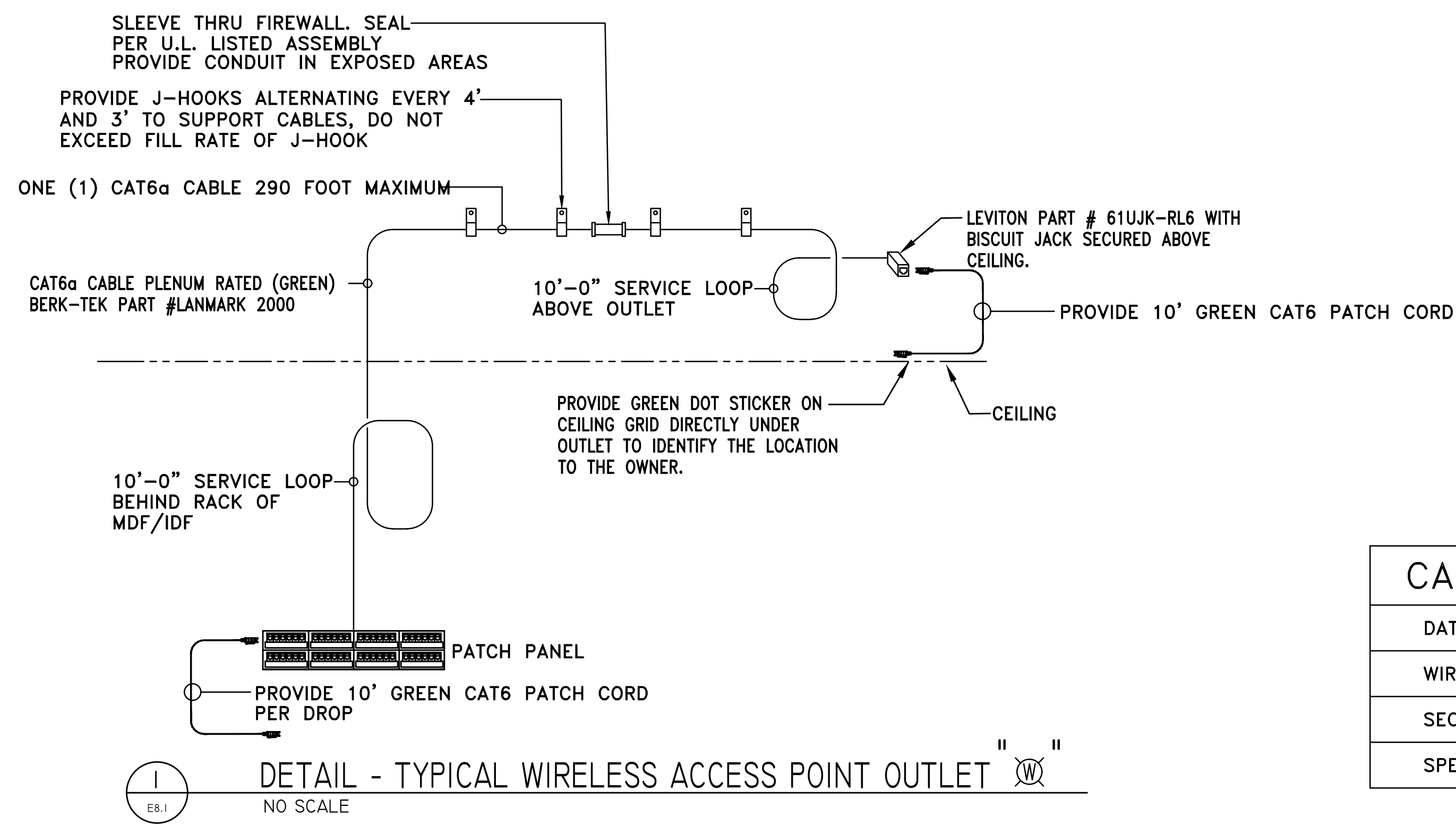


SHEET TITLE : RISER DIAGRAM AND NOTES  
MCKEE JOB # : 22-133  
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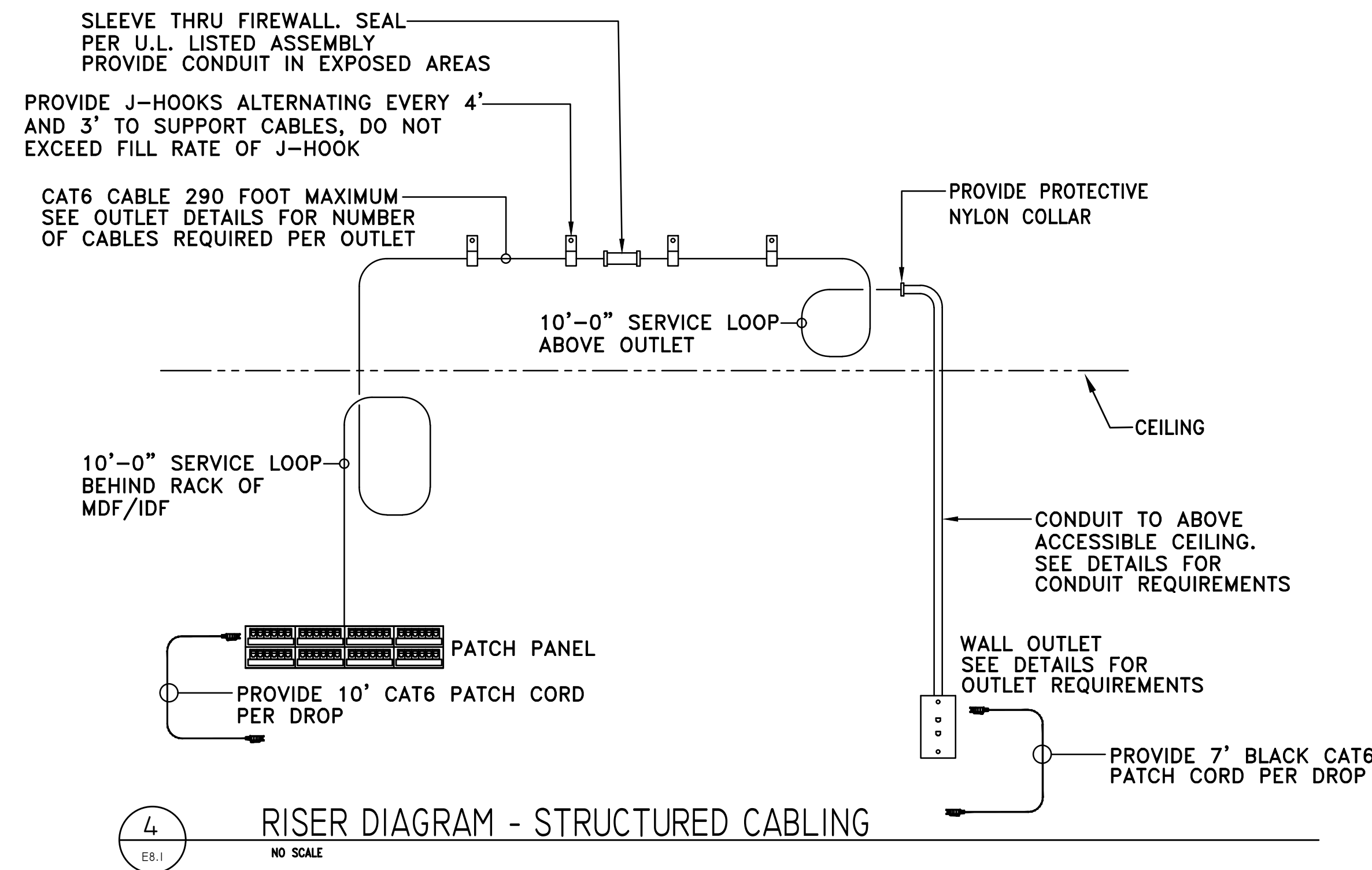
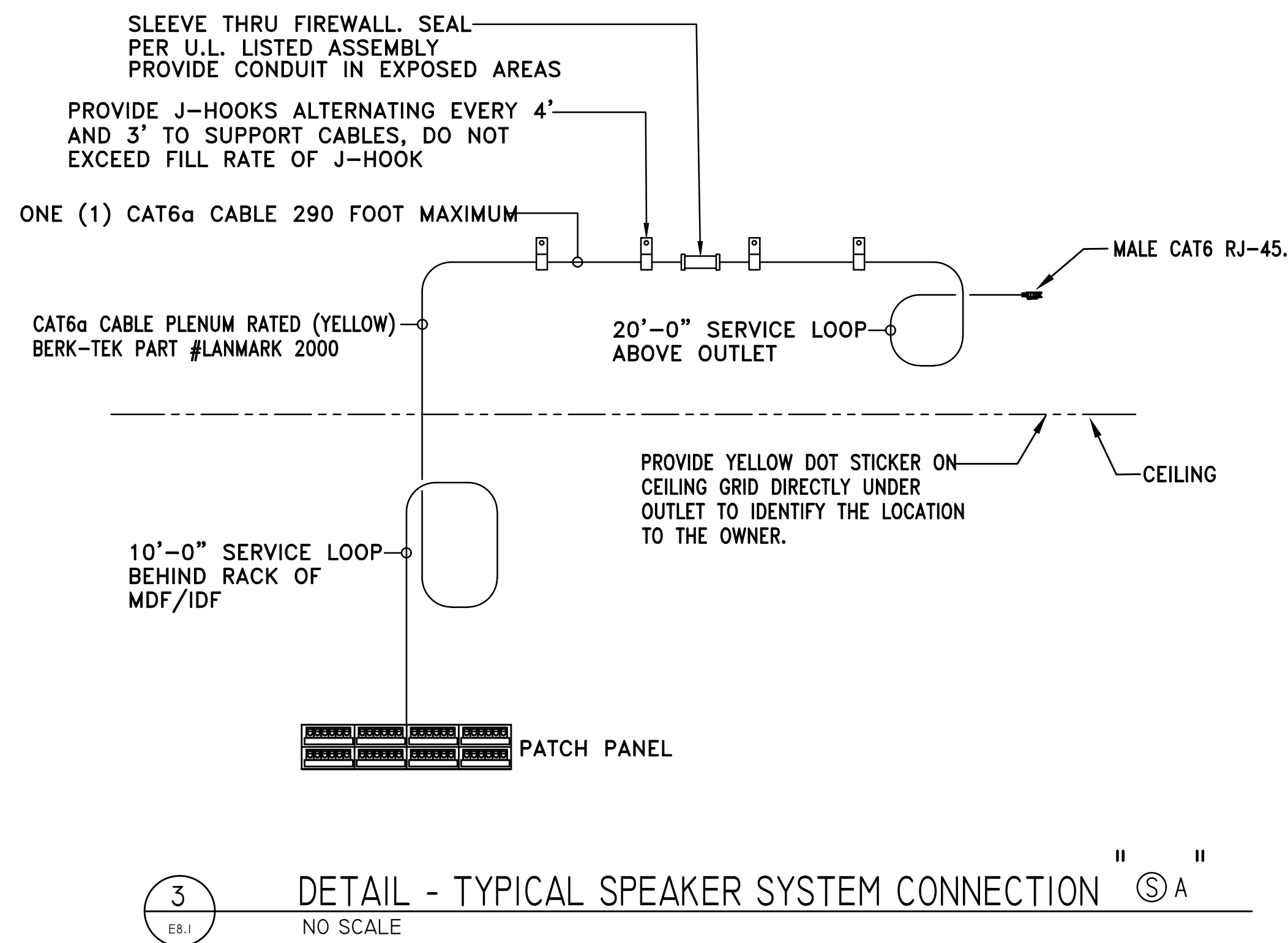
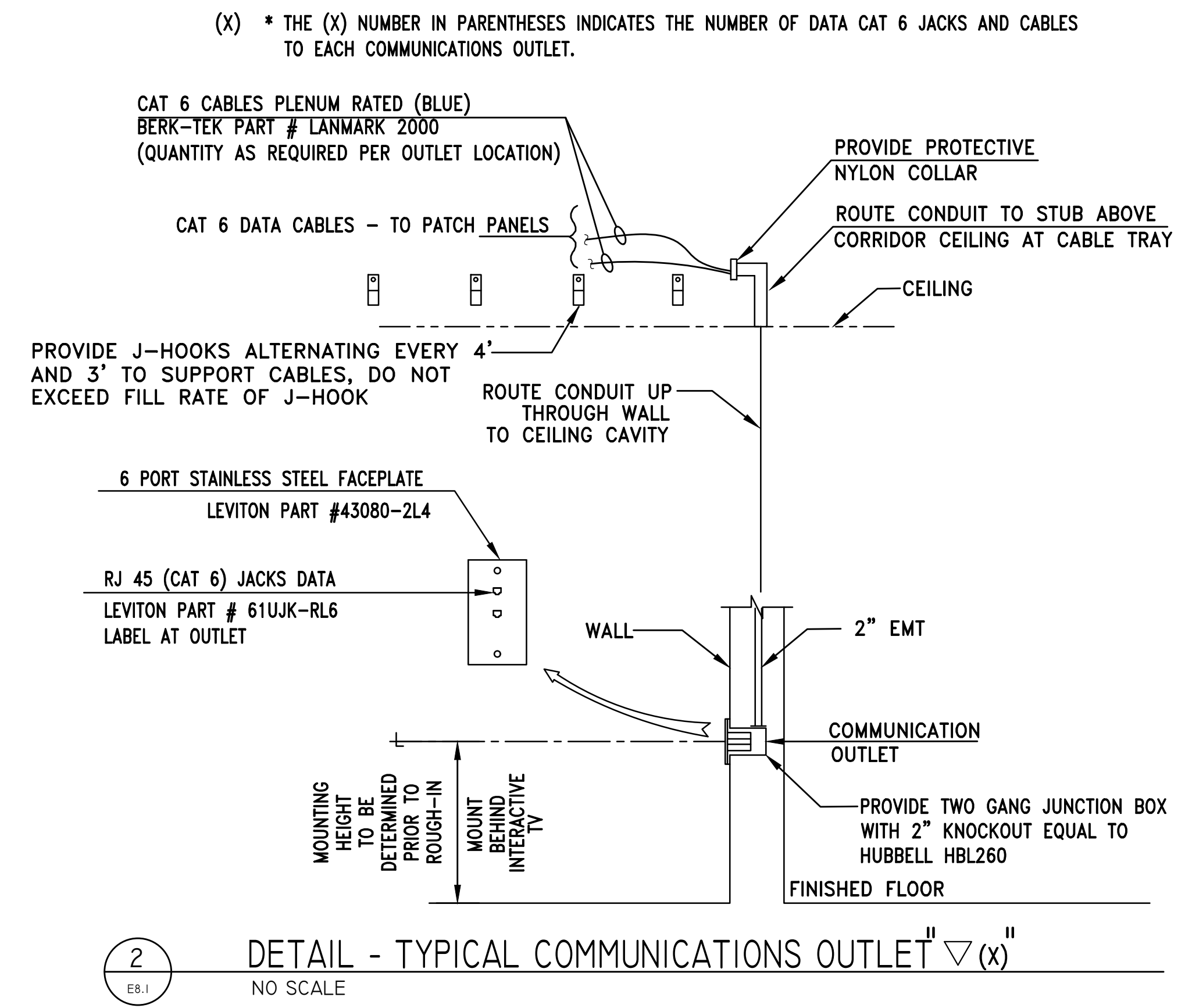
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SHEET NO. : E7.1

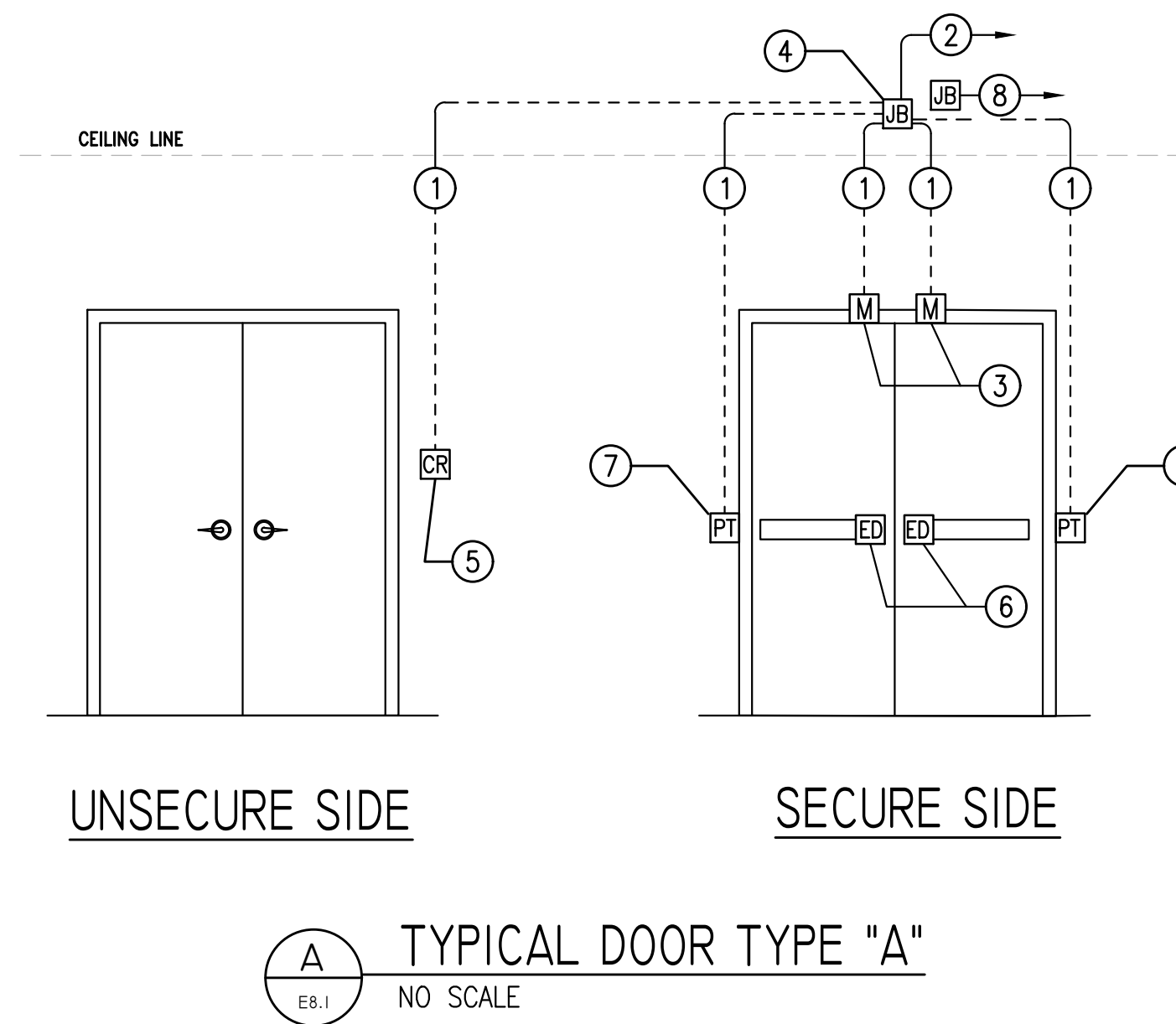
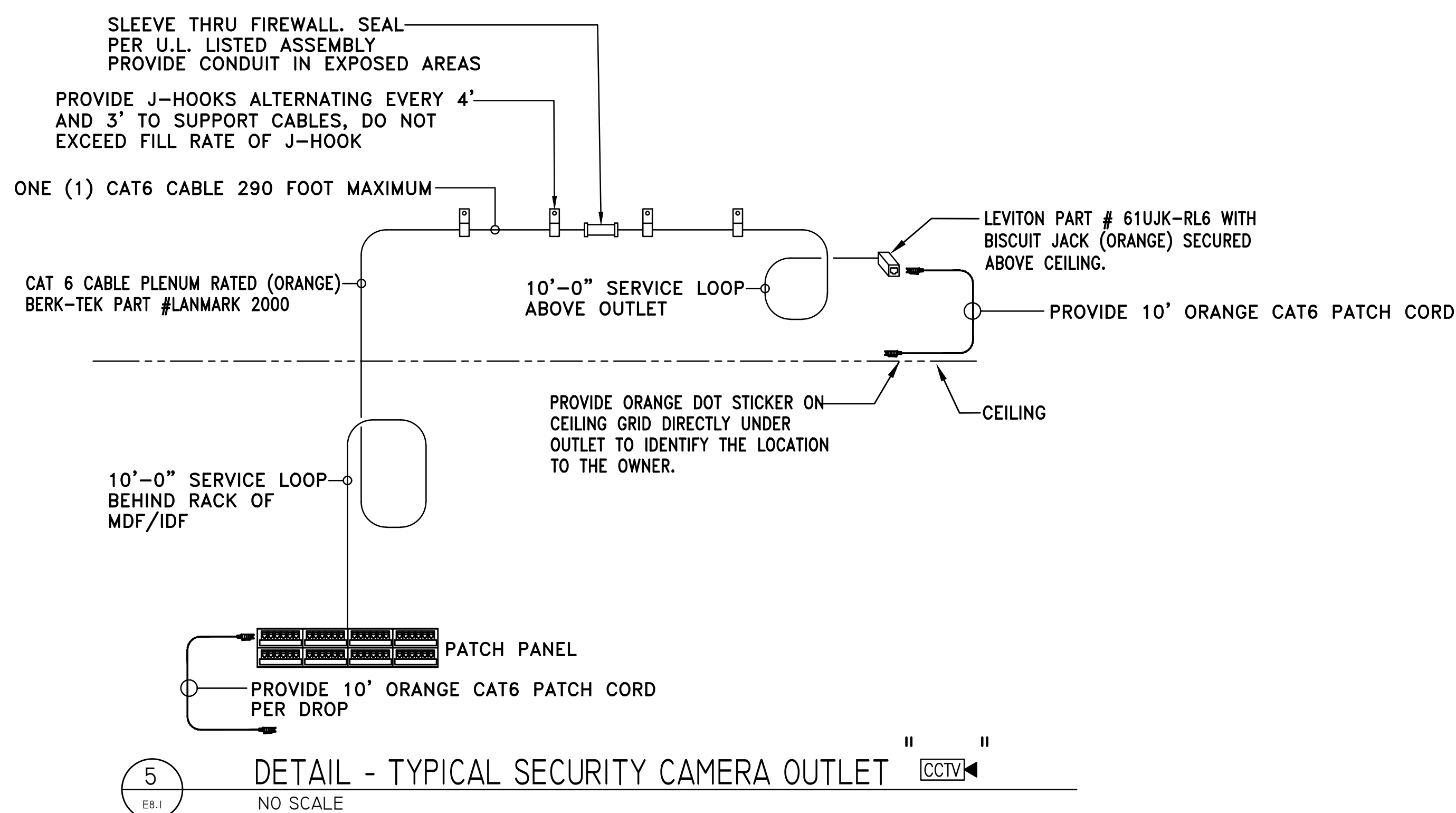




CAT6 CABLE COLOR CODING	
DATA	BLUE CAT6
WIRELESS ACCESS	GREEN CAT6
SECURITY CAMERA	ORANGE CAT6
SPEAKERS/CLASSROOM CAMERA	YELLOW CAT6



\* NOTE PROVIDE SINGLE GANG JUNCTION BOX WITH CONDUIT STUBBED TO ABOVE 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



DOOR/SECURITY/ACCESS HARDWARE KEY

- 3/4" CONDUIT TO JUNCTION BOX.
- 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.
- RECESSED DOOR POSITION SWITCH. FRAME TO BE PREPPED BY DOOR SUPPLIER.
- 4 SQUARE JUNCTION BOX MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
- CARD READER. SEE SPECIFICATIONS FOR MODEL NUMBER. MOUNTED 48" A.F.F. ON SINGLE GANG BOX.
- EXIT DEVICE WITH LATCH RETRACTION AND INTEGRAL REQUEST - TO - EXIT SWITCH.
- POWER TRANSFER HINGE. (BY OTHERS)
- PROVIDE (1) CAT 6 CONNECTION BACK TO IDF WITH 15' SLACK AT DOOR.

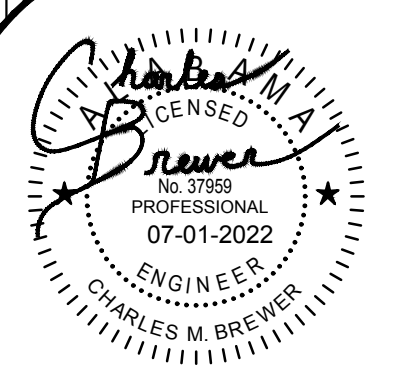
A NEW ADDITION AT BREWER HIGH SCHOOL

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SHEET TITLE : AUXILIARY & SECURITY DETAILS

MCKEE JOB # : 22-133

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