

**PARKING CALCULATIONS**  
 1 PARKING SPACE FOR EVERY 500 SQFT. RETAIL: 5 REQUIRED PARKING SPACES

**AREA CALCULATIONS**  
 SQUARE FOOTAGE OF SURFACE: 15,034 SQFT.  
 SQUARE FOOTAGE OF PERMEABLE OPEN SPACE/LANDSCAPE AREA: 2,292 SQFT. (15% OR TOTAL SURFACE)

**NOTE:**  
 ALL CANOPY LIGHTING WILL BE RECESSED LIGHTING AS PER CPO 20.3EE(1)

**FUEL TANK INFORMATION**  
 1-12,000 GALLON GASOLINE, TANK#32554  
 2-10,000 GALLON GASOLINE, TANK#32555  
 3-10,000 GALLON GASOLINE, TANK#32556  
 4-8,000 DIESEL, TANK#32557

TANK, PIPING, AND CORROSION PROTECTION ARE FIBERGLASS REINFORCED PLASTIC  
 SPILL CONTAINMENT INSTALLED 10/30/1998  
 TANK MONITORING VEEDER ROOT TLS-3500  
 AUTOMATIC TANK GAUGING FOR RELEASE DETECTION

**INTERIOR NOTES:**  
 PLEASE SEE FINISH SCHEDULE FOR DETAILS.

8' WOOD FENCE

ST. CLAUDE

EXISTING SITE PLAN

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

NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

REVISION 01-08-2020

RENOVATION & ADDITION  
 BROTHERS ST. CLAUDE  
 5401 ST. CLAUDE AVENUE  
 NEW ORLEANS, LA  
 ORLEANS PARISH



THOMAS E. PITTMAN P.E.  
 CONSULTING ENGINEER  
 27011 REGENCY PARK DR.  
 DENHAM SPRINGS, LA. 70726

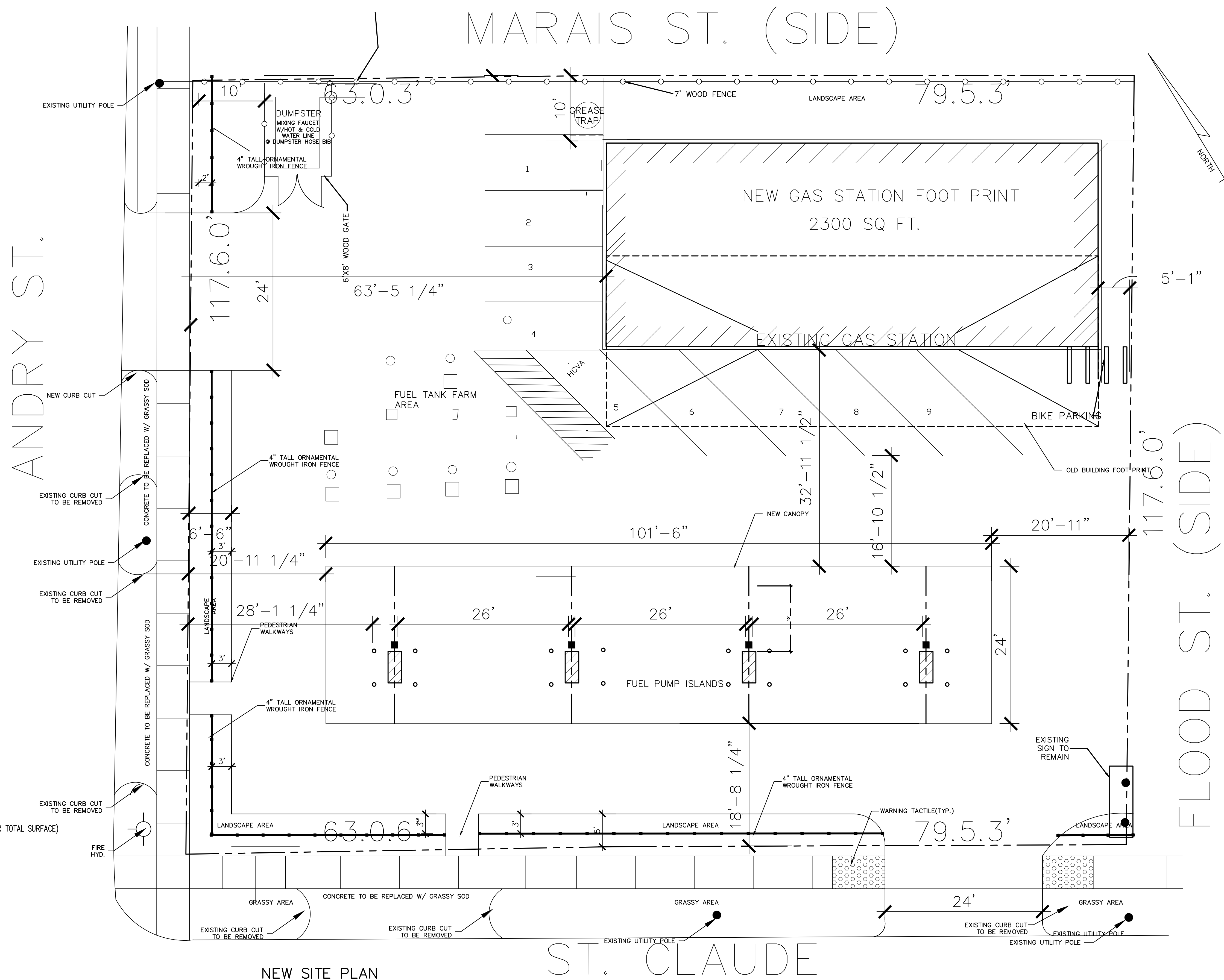
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 CHECKED BY: TEP

Sheet Title:  
 EXISTING SITE PLAN

Drawing No.  
 A-1

CONTRACTOR SHALL DIRECT ANY QUESTIONS PERTAINING TO THESE PLANS TO THE ENGINEER. ANY DEVIATIONS FROM THESE PLANS WITHOUT CONSULTING AND/OR WRITTEN CONSENT FROM THE ENGINEER SHALL NULL AND VOID ALL LIABILITIES.

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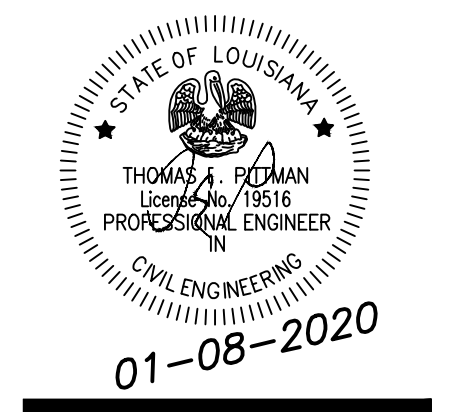
**INTERIOR NOTES:**  
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**NEW SITE PLAN**  
 SCALE: 1/8"=1'-0"

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**REVISION 01-20-2020**

RENOVATION & ADDITION  
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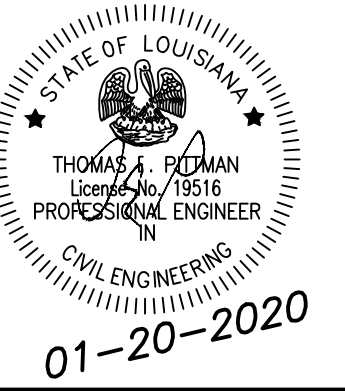
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Sheet Title:  
**NEW SITE PLAN**

Drawing No.  
**A-1**

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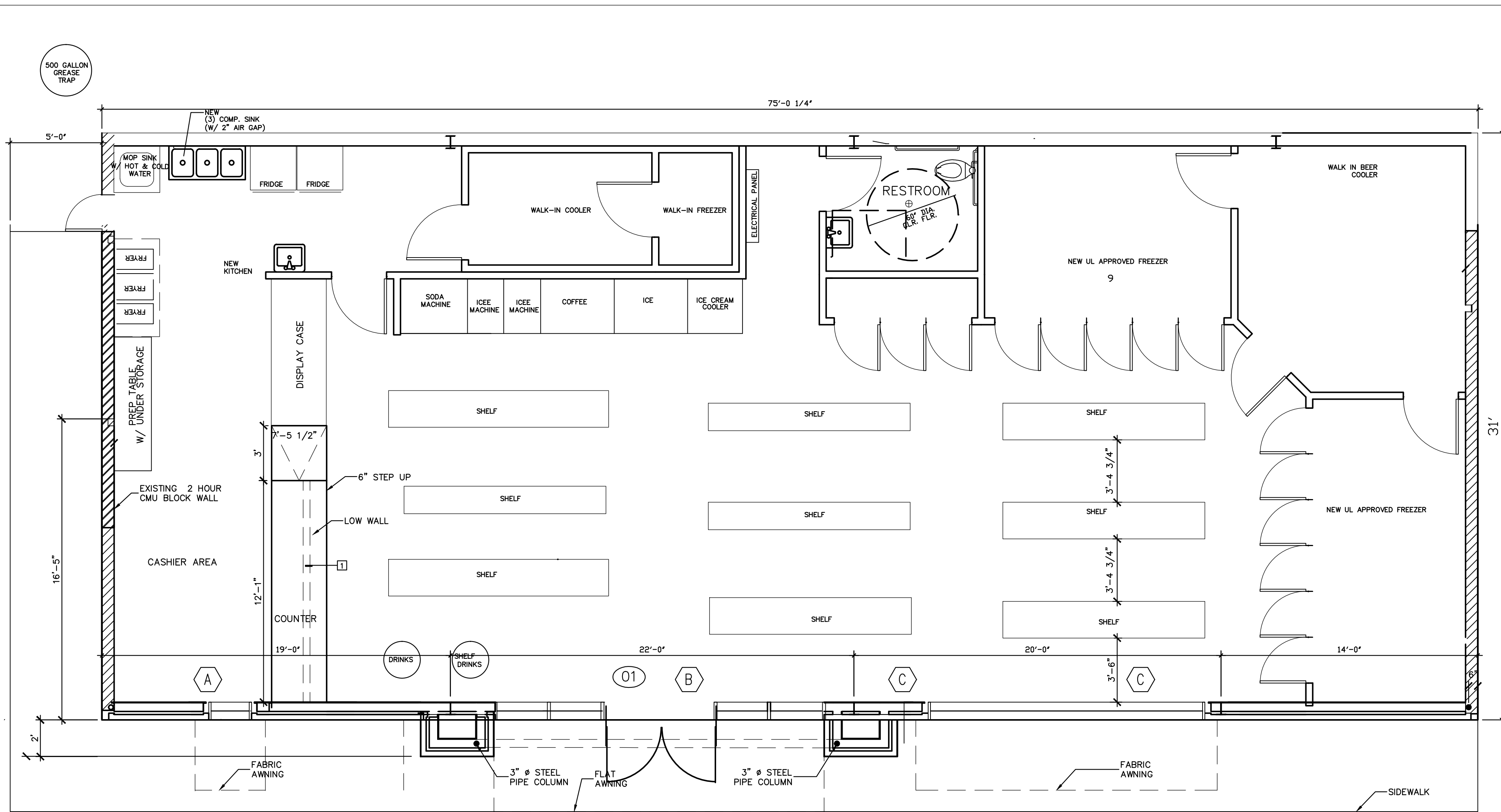


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Sheet Title:  
 PROPOSED  
 FIRST FLOOR  
 PLAN

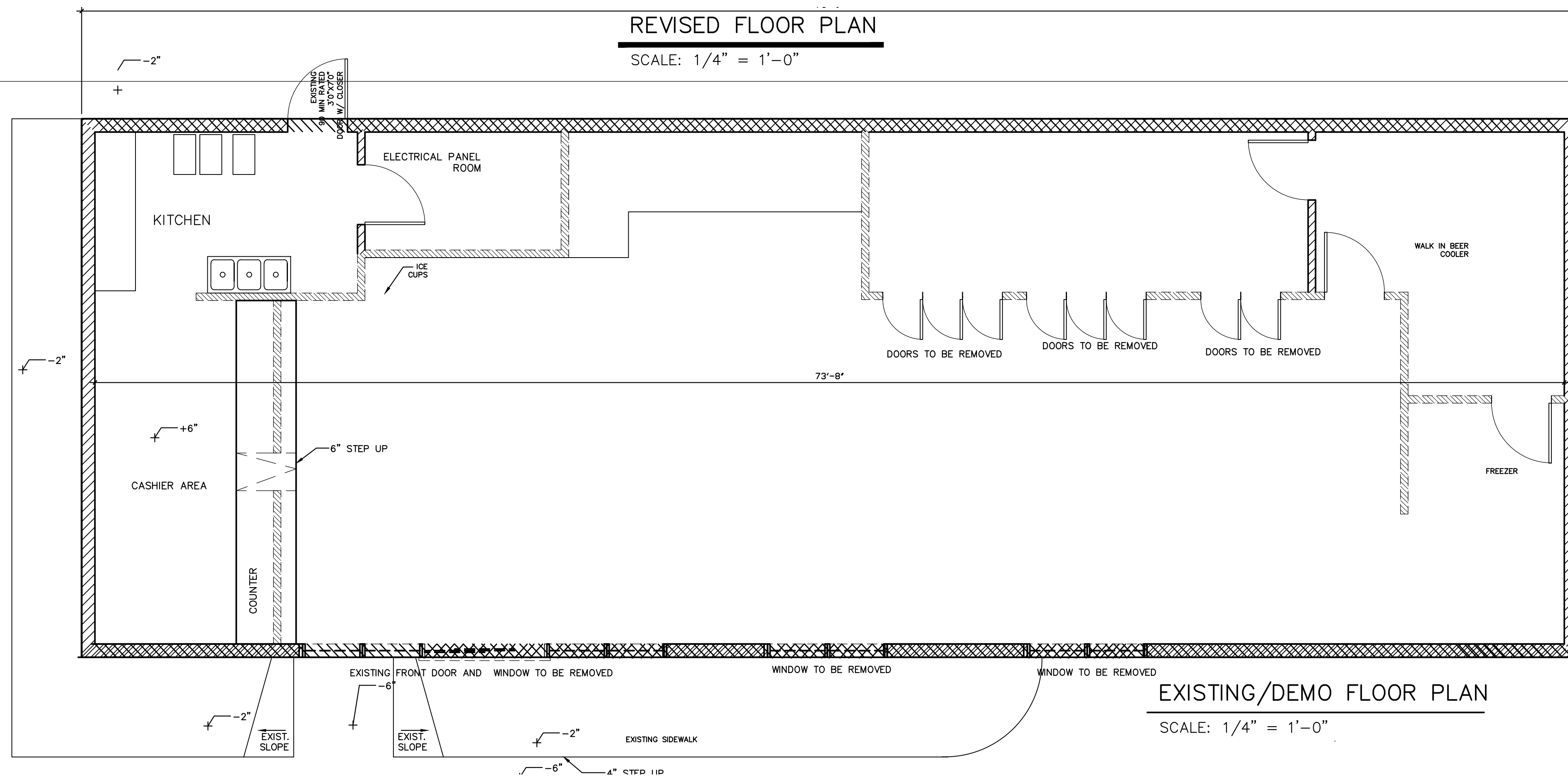
Drawing No.  
 A-2.0



EQUIPMENT SCHEDULE				
MARK	DESCRIPTION	POWER	VOLTS	AMP
1	FRYER	GAS	110	20
2	SODA MACHINE	ELECTRIC	110	20
3	ICEE MACHINE	ELECTRIC	110	20
4	BEVERAGE COOLER	ELECTRIC	110	20
5	TACO WARMER	ELECTRIC	110	20
6	COFFEE DISPENSER	ELECTRIC	110	20
7	ICE CREAM FREEZER	ELECTRIC	110	20
8	BEVERAGE COOLER	ELECTRIC	110	20
9	FREEZER	ELECTRIC	220	40
10	BEER CAVE	ELECTRIC	110	20

REVISED FLOOR PLAN

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



EXISTING/DEMO FLOOR PLAN

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

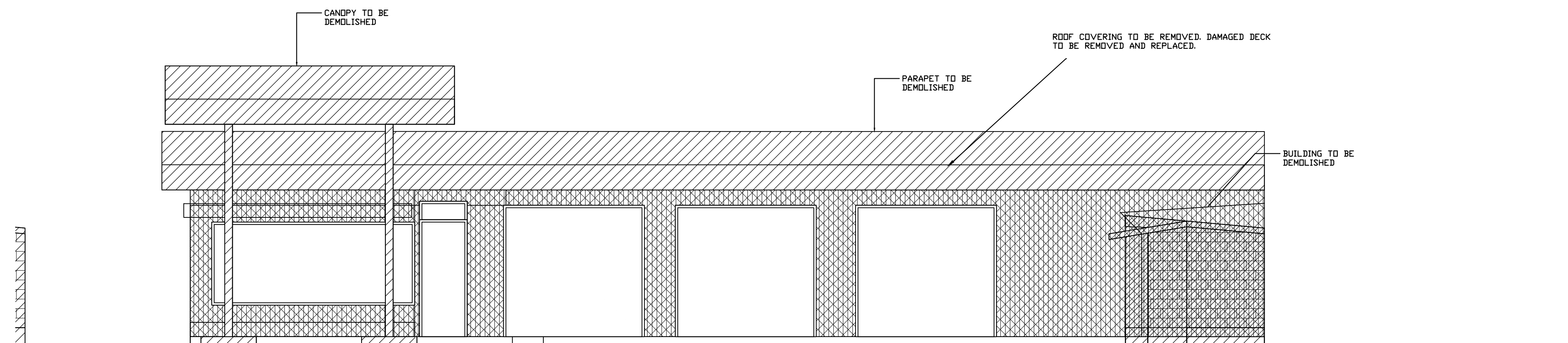
- ===== = NEW WALL
- XXXXXXX = EXTERIOR WALL TO BE REMOVED
- /////// = INTERIOR WALL TO BE REMOVED
- /////// = EXISTING WALL

NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

REVISION 01-20-2020

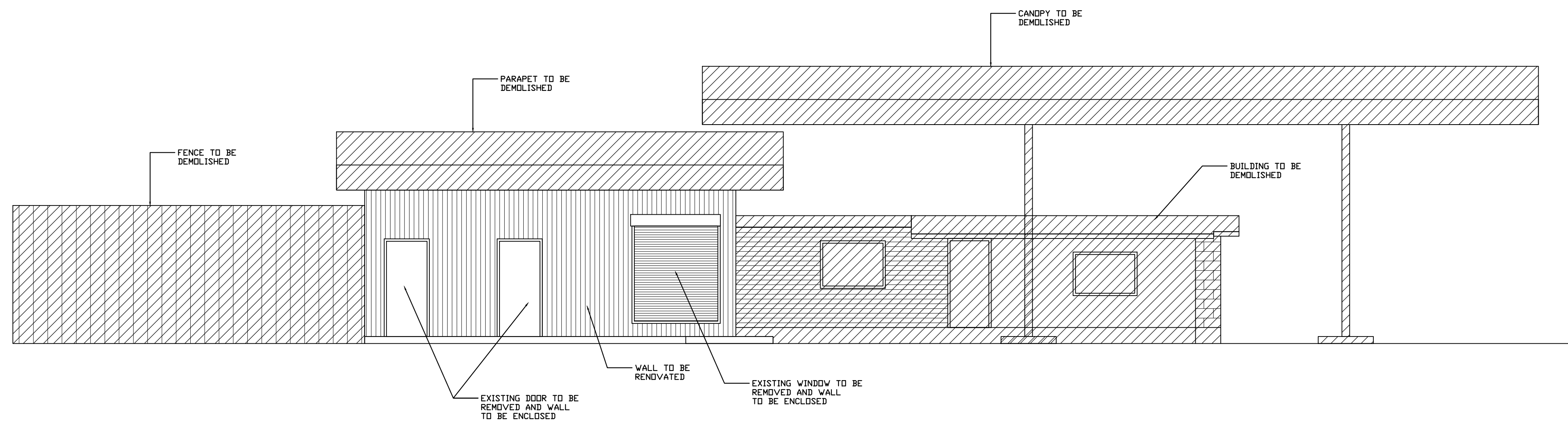
CONTRACTOR SHALL DIRECT ANY QUESTIONS PERTAINING TO THESE PLANS TO THE ENGINEER. ANY DEVIATIONS FROM THESE PLANS WITHOUT CONSULTING AND/OR WRITTEN CONSENT FROM THE ENGINEER SHALL NULL AND VOID ALL LIABILITIES.

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NOTE: EXISTING FRONT & REAR WALL TO BE DEMOLISHED AND BE REPLACED BY NEW FRONT AND REAR STORE WALL

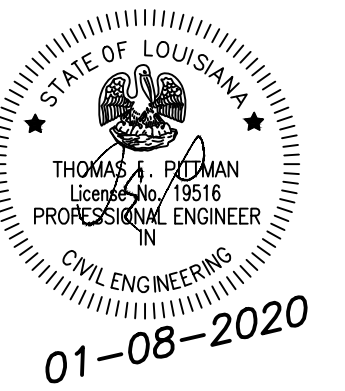
1 FRONT ELEVATION  
A-3.0 SCALE: 1/4"=1'-0"



3 LEFT ELEVATION  
A-3.0 SCALE: 1/4"=1'-0"

NOTE:  
ONLY THE LETTERS "BROTHERS" WILL BE ILLUMINATED.  
TOTAL SQUARE FOOTAGE OF ALL SIGNS ARE  
100 SQFT. LINEAR FRONTAGE OF BUILDING IS 60'  
  
ALL SIGNS WILL BE REDUCED TO 60 SQFT.  
MATERIAL OF SIGN AND AWNING IS METAL

RENOVATION & ADDITION  
BROTHERS ST. CLAUDE  
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Sheet Title:  
EXISTING  
ELEVATIONS

Drawing No.

A-3.0

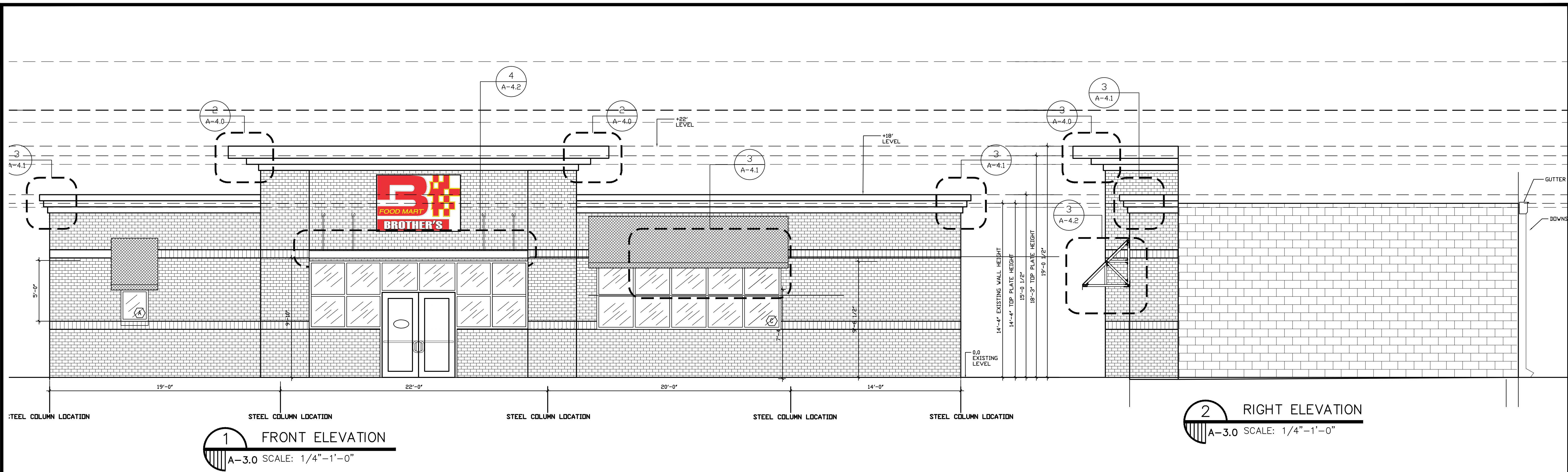
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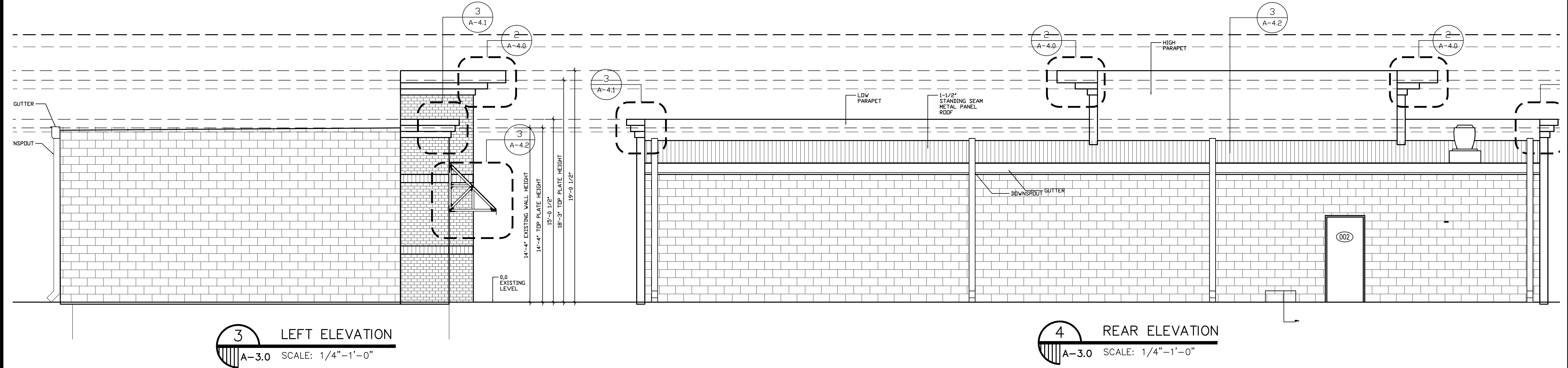
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1 FRONT ELEVATION  
A-3.0 SCALE: 1/4"-1'-0"

2 RIGHT ELEVATION  
A-3.0 SCALE: 1/4"-1'-0"



3 LEFT ELEVATION  
A-3.0 SCALE: 1/4"-1'-0"

4 REAR ELEVATION  
A-3.0 SCALE: 1/4"-1'-0"

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**REVISION 01-08-2020**

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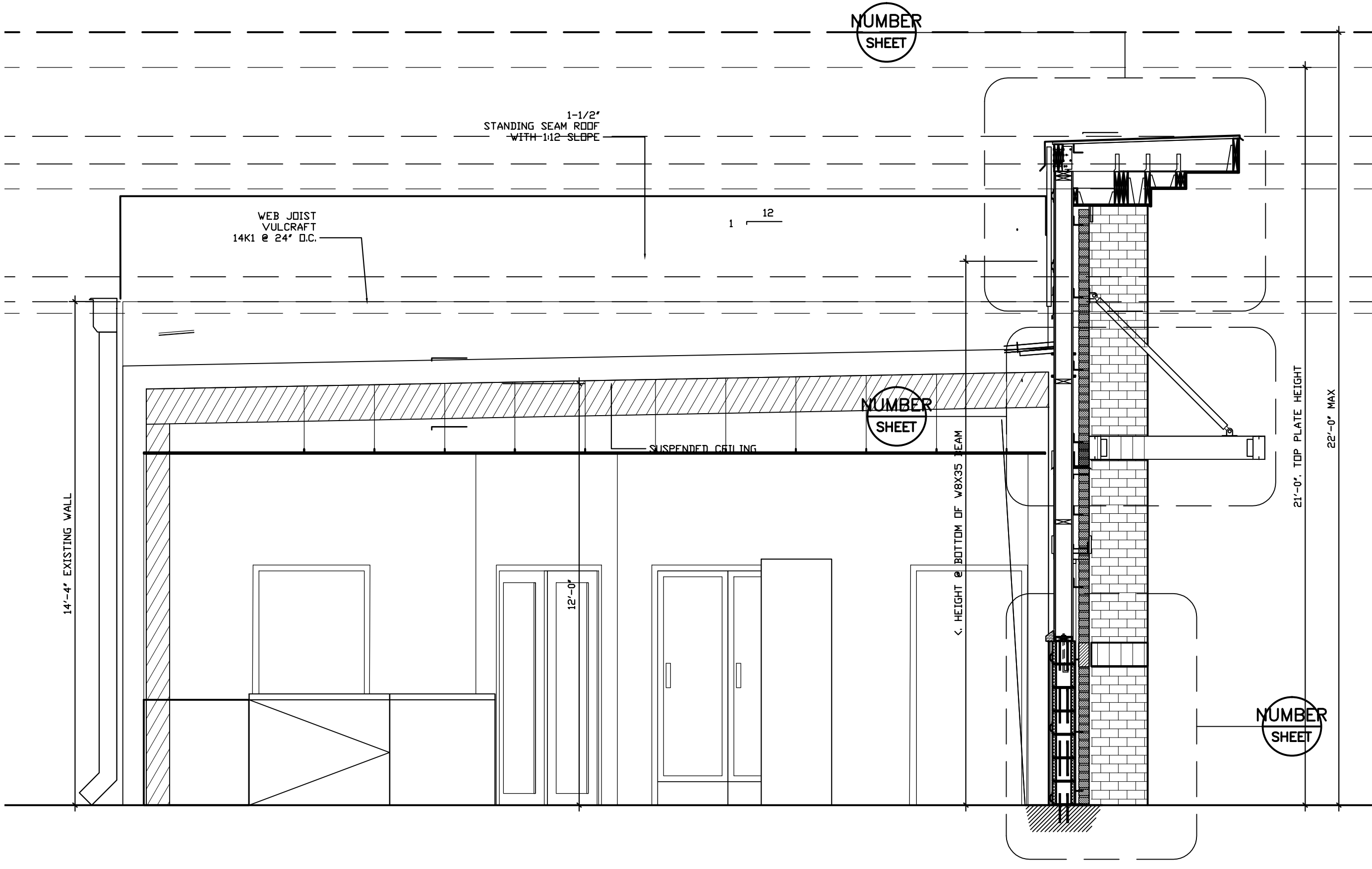
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DATE:	01-08-20
DRAWN BY:	CMT
CHECKED BY:	TEP

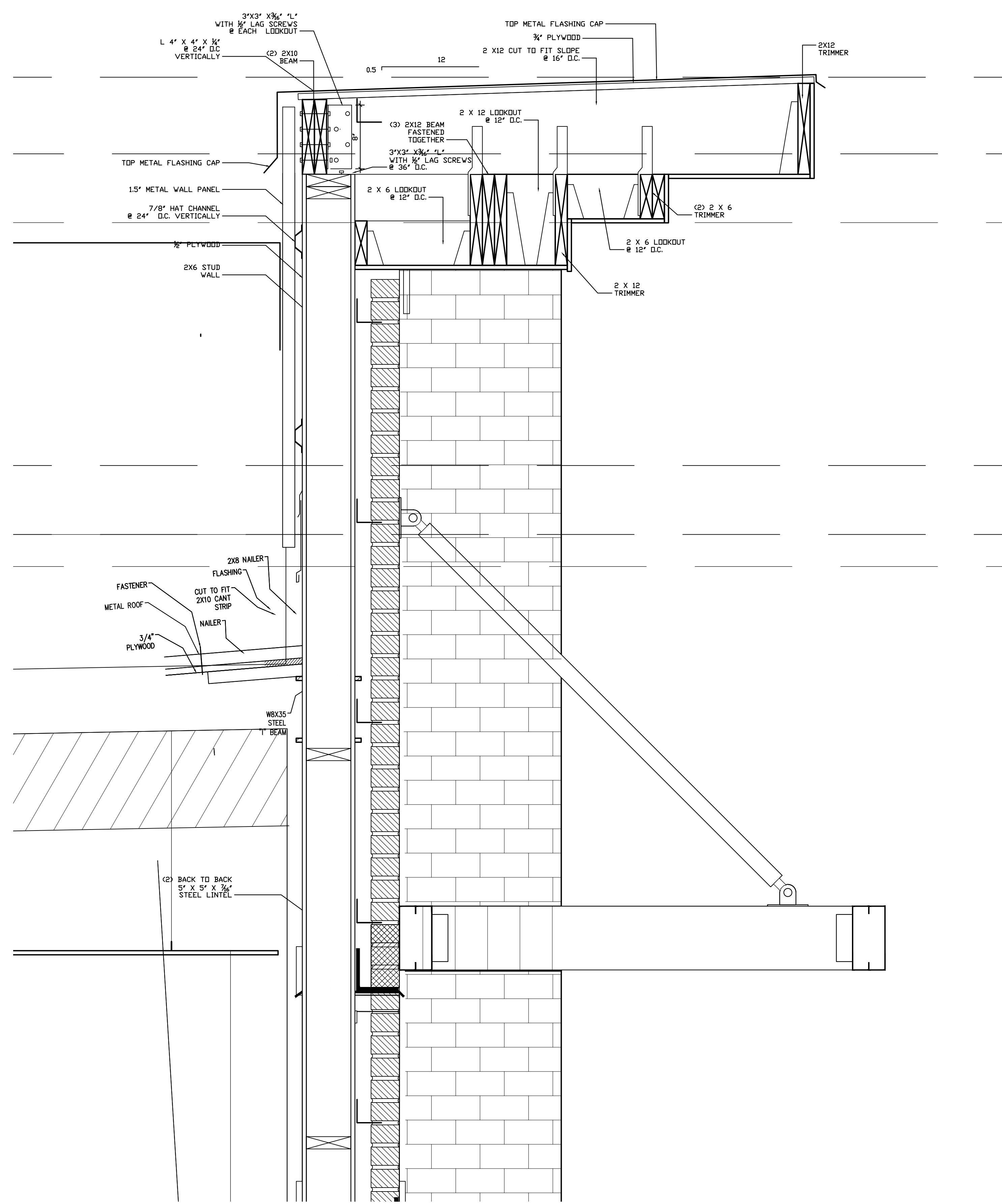
Sheet Title:  
**NEW ELEVATIONS**

Drawing No.  
**A-3.1**

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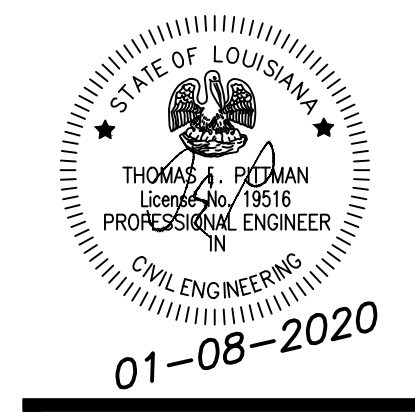
1 BUILDING SECTION  
A-4.0 SCALE: 3/8"-1'-0"



2 HIGH PARAPET DETAIL ( SECTION)  
A-4.0 SCALE: 1-1/2"-1'-0"

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RENOVATION & ADDITION  
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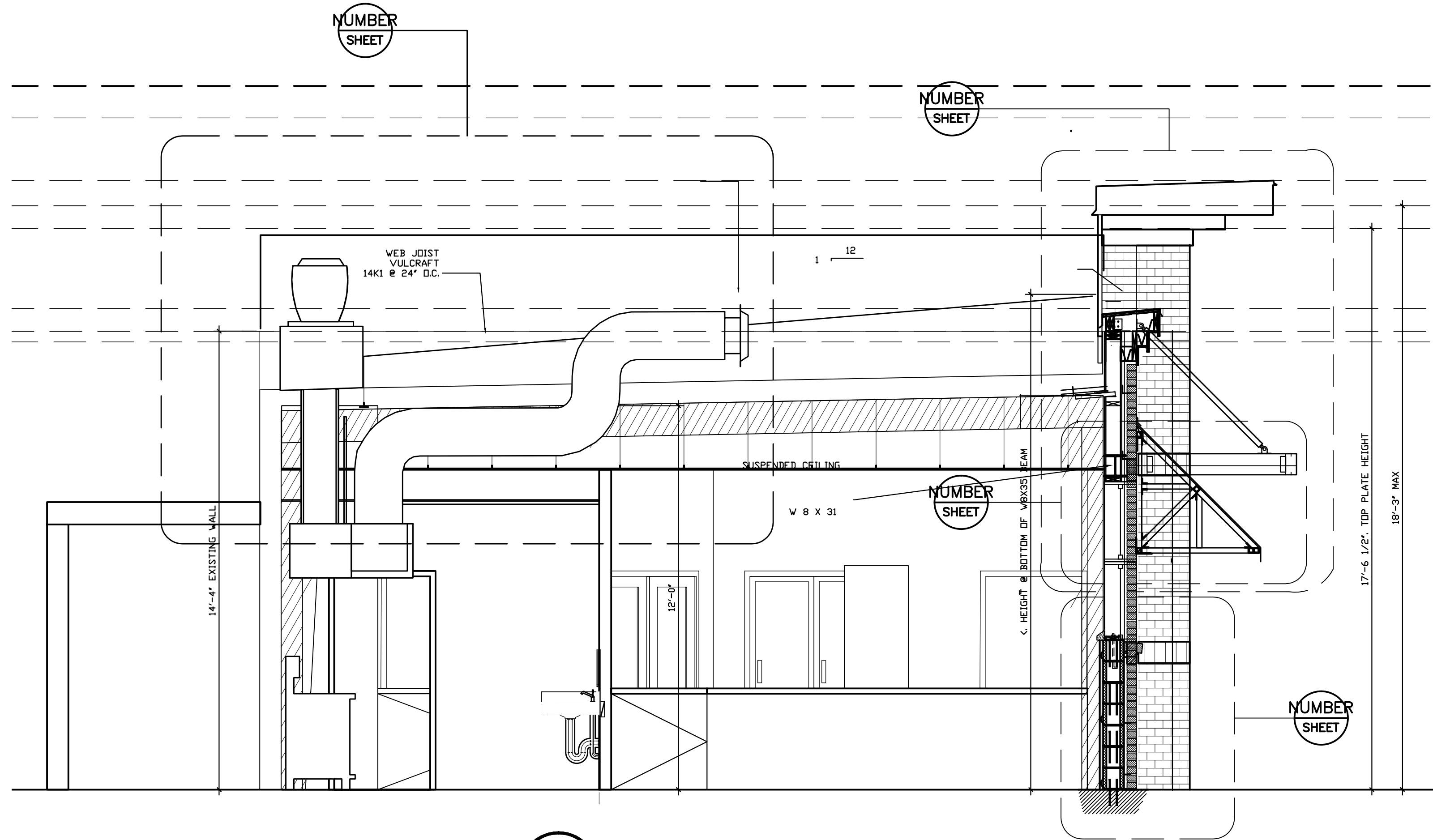
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Sheet Title:  
BUILDING  
SECTION  
& DETAILS

Drawing No.  
A-4.0

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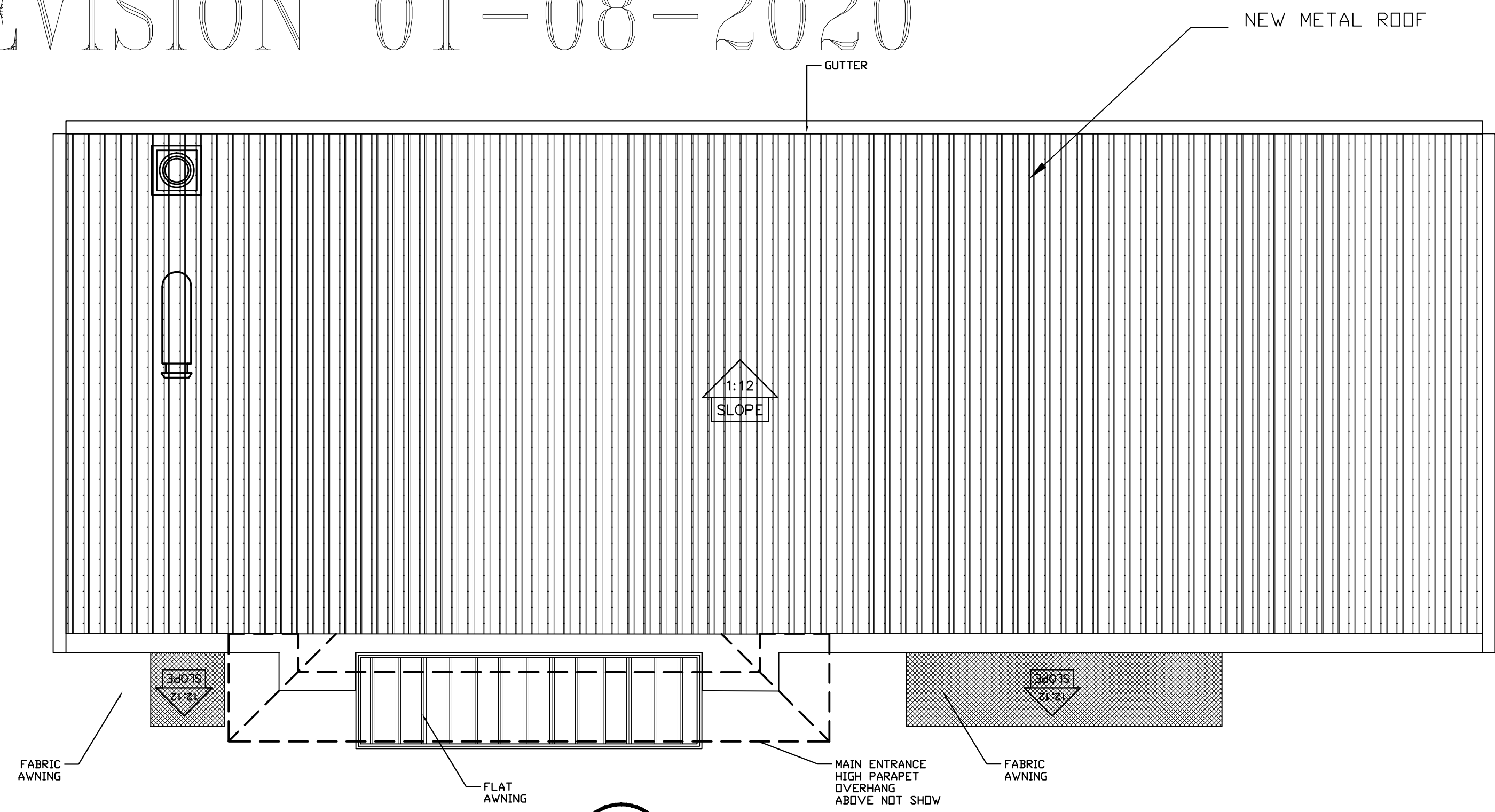
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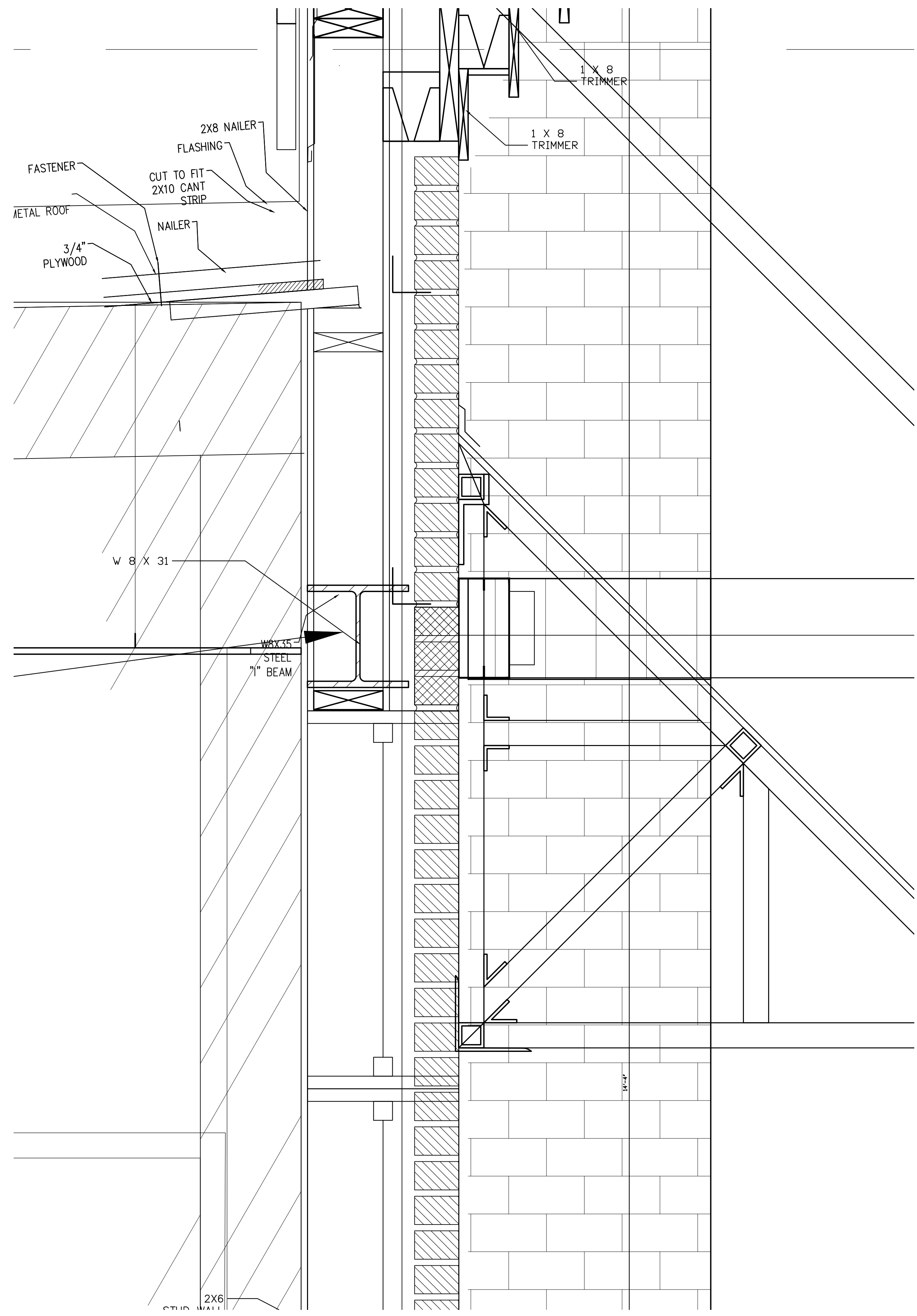
**1 BUILDING SECTION**  
 A-4.1 SCALE: 3/8"=1'-0"

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REVISION 01-08-2020

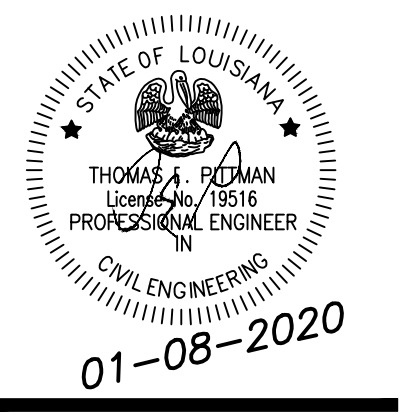


**2 ROOF PLAN**  
 A-4.1 SCALE: 3/16"=1'-0"



**3 HIGH PARAPET DETAIL (SECTION)**  
 A-4.1 SCALE: 1-1/2"=1'-0"

RENOVATION & ADDITION  
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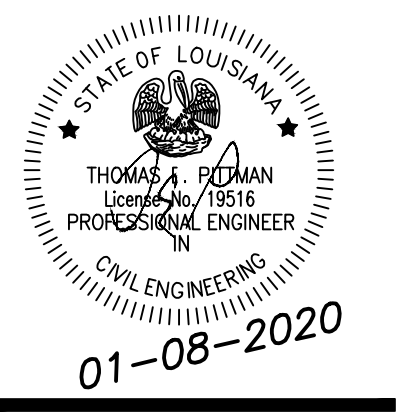
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Sheet Title:  
 ROOF PLAN  
 & SECTIONS  
 & DETAILS

Drawing No.  
 A-4.1

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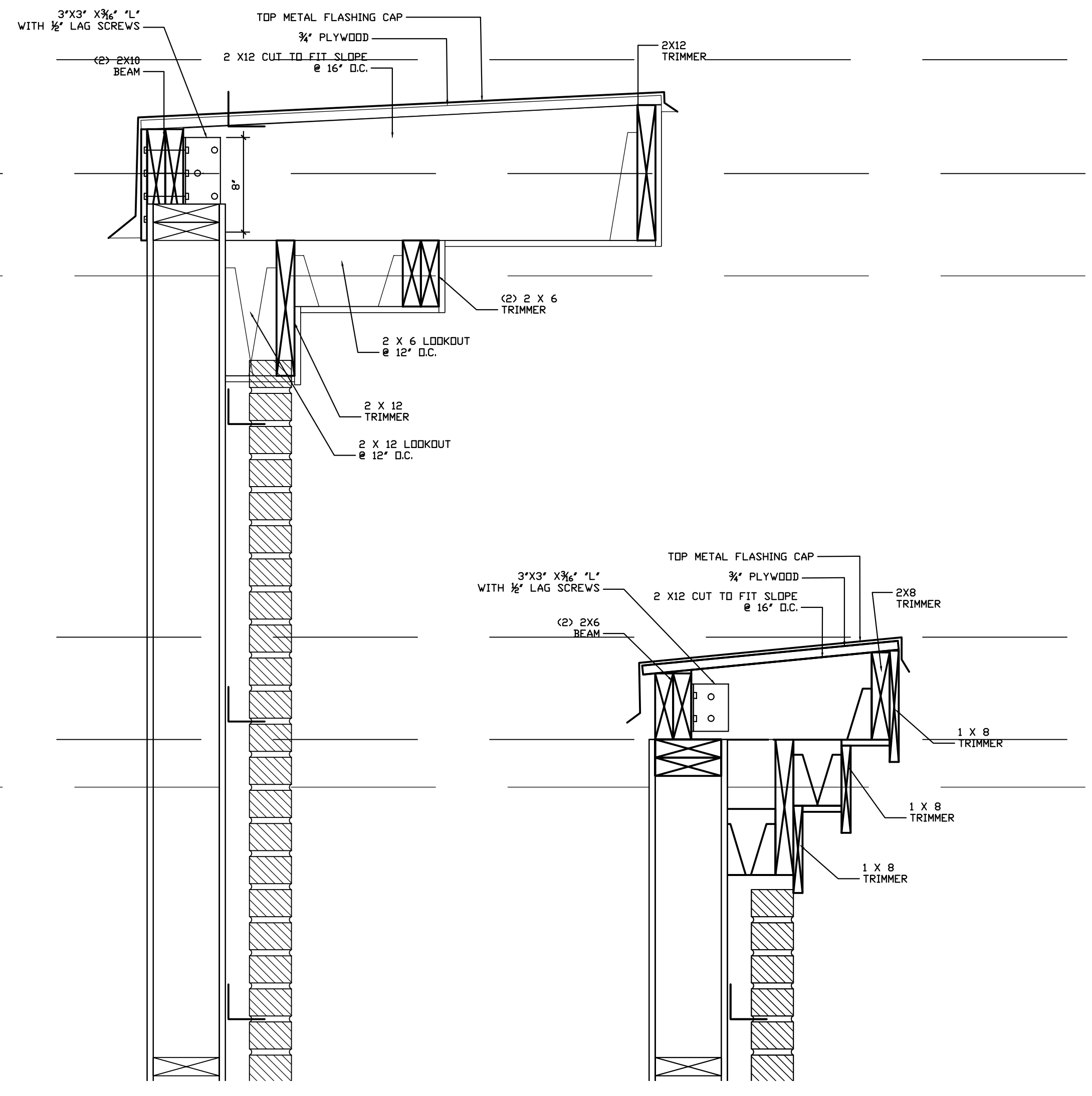


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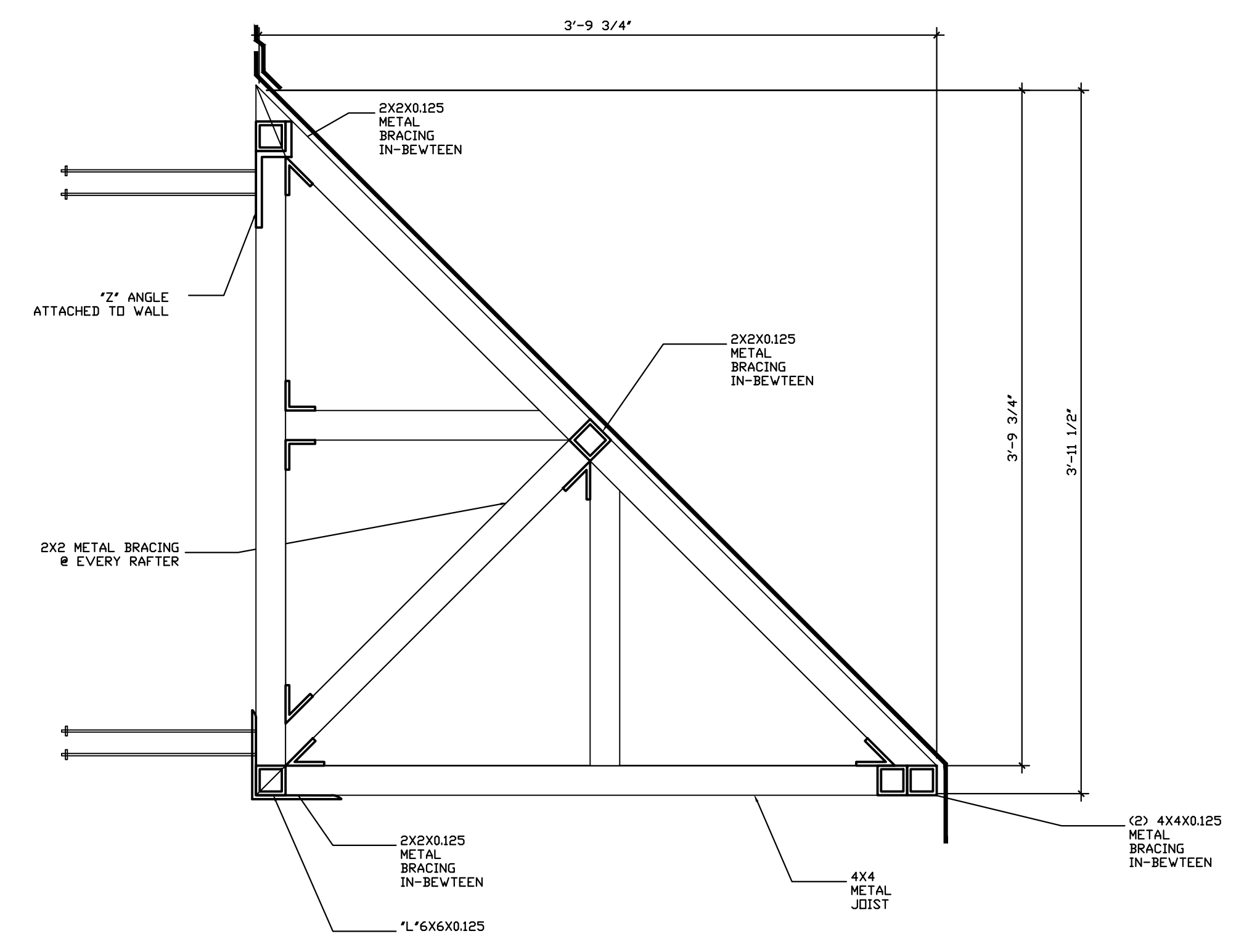
Sheet Title:  
 DETAILS

Drawing No.  
 A-4.2

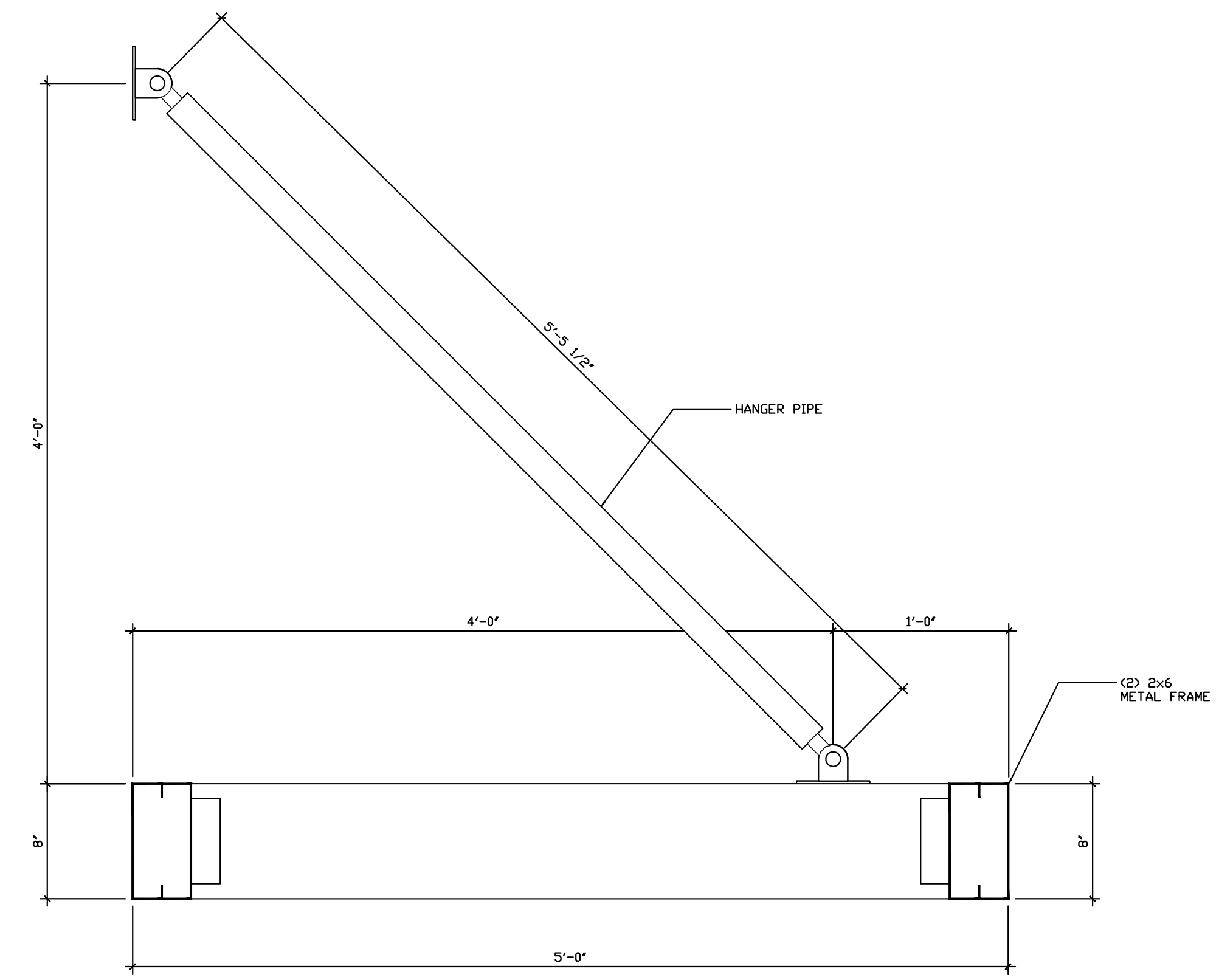


1 HIGH PARAPET DETAIL ( FRONT VIEW)  
 A-4.2 SCALE: 1-1/2"-1'-0"

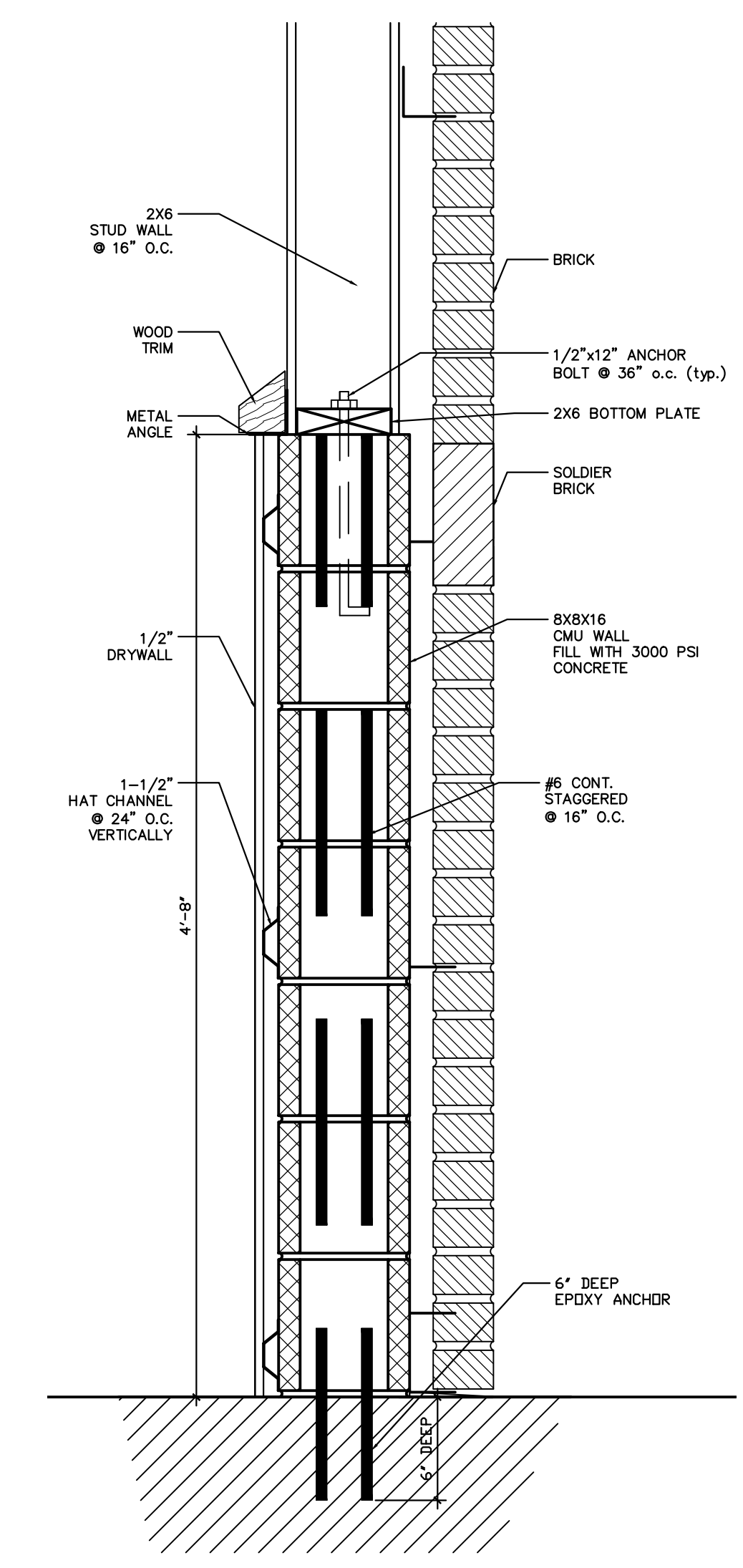
2 LOWER PARAPET DETAIL  
 A-4.2 SCALE: 1-1/2"-1'-0"



3 FABRIC AWNING  
 A-4.2 SCALE: 1-1/2"-1'-0"



4 FLAT AWNING  
 A-4.2 SCALE: 1-1/2"-1'-0"



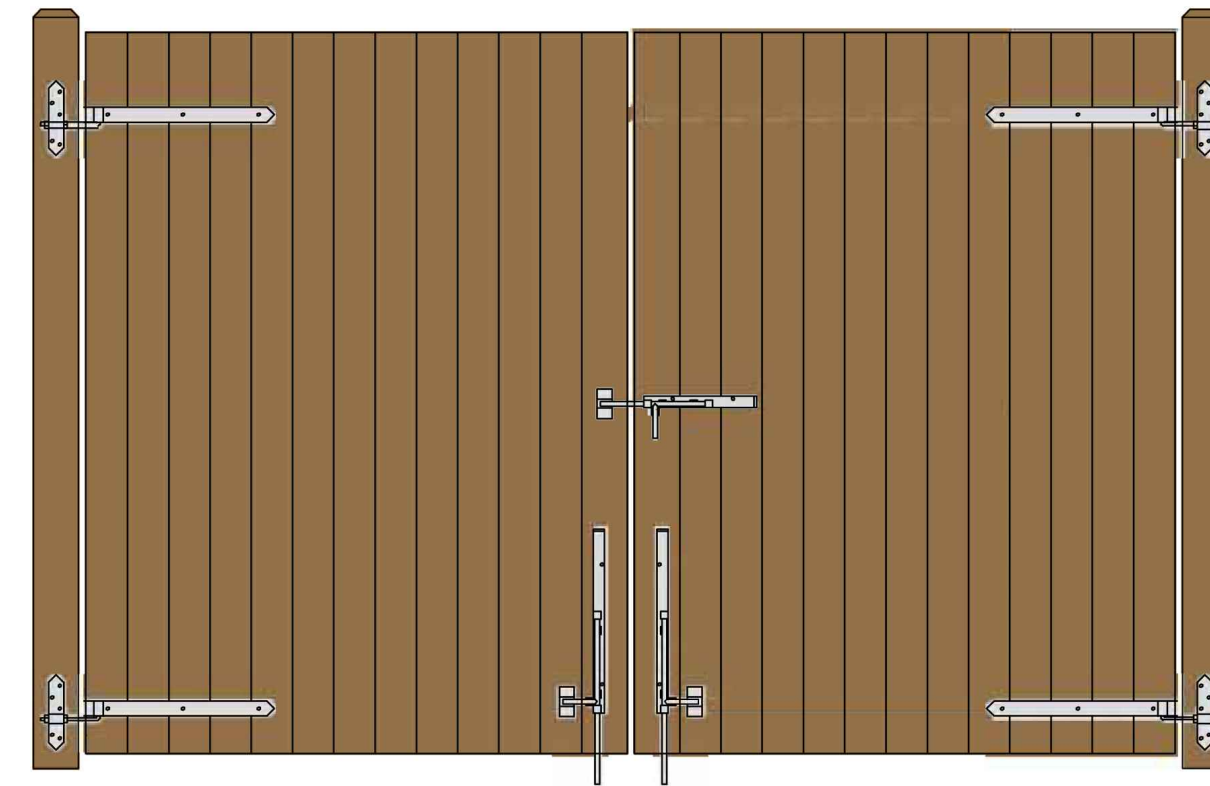
5 LOWER CMU DETAIL  
 A-4.2 SCALE: 1-1/2"-1'-0"

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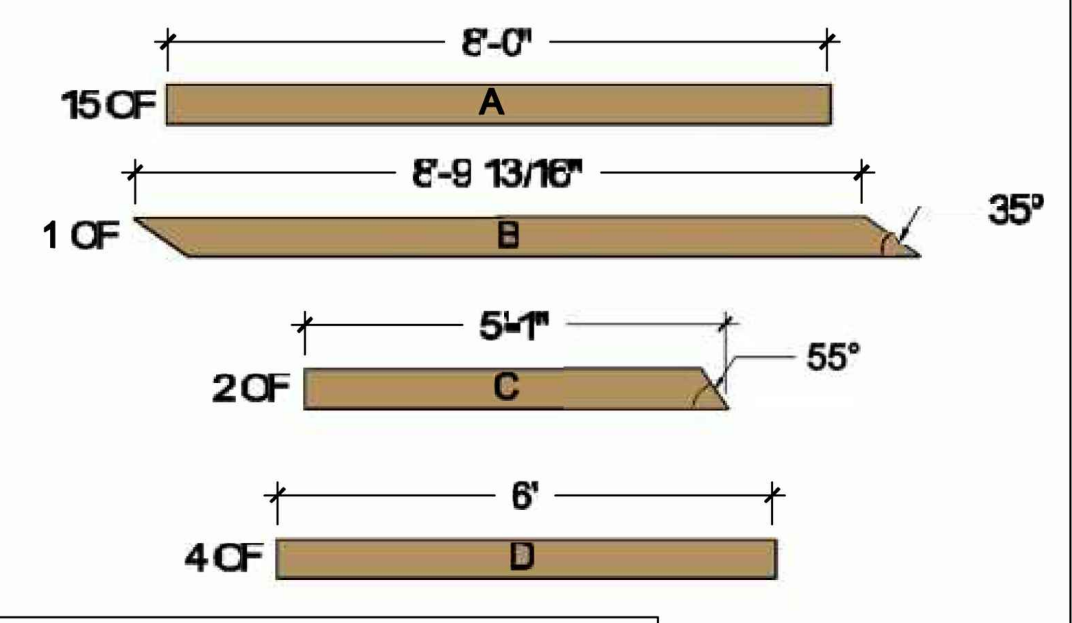
**DOUBLE DUMPSTER GATES  
(TWO 6 FOOT WIDE 96" HIGH  
GATES)  
REAR EYE HINGES  
(Product Codes #8324)  
GATE HUNG BETWEEN POSTS**

Distance between gate and hinge post	A
Width of Left Gate	B
Distance between gates	C
Width of Right Gate	D
Distance between gate and hinge post	E
Total distance between posts	F

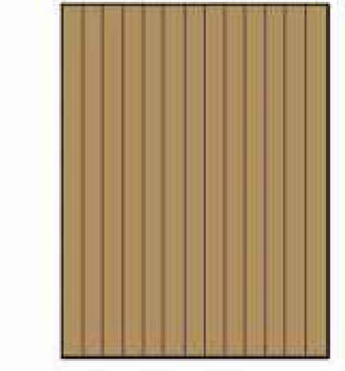
Hardware Required		Rear Eye Hinge Advantages Opens 180 degrees Incredible amount of adjustment Easy operation & Very Strong Minimal distance between gate and post
Galvanized Finish	Black Powder Coat over Galvanized Finish	
Hinge Sets	2 of 8324-S242	2 of 8324-S24P
fasteners included with hardware	Two Sets Includes	
Cane Bolt (Vertical)	four 24 inch double strap (8324-242 or 8324-24SP)	four mounting plate with 8" adjustable threaded pins(8256-342 or 8256-34P)
	2 of 5000-362	2 of 5000-36SP
Central Latch Options		
Cane Bolt and Keep	5000-122 plus 5000-002	5000-12SP plus 5000-00SP
Lumber Required		
Posts	2 of 12" x 6" x 6" (usually dressed out at 5.5" x 5.5")	
Rails, Stiles (uprights) and Diagonals	made from full 1" thick by 5.5" wide lumber (commonly stocked decking material or rough cut lumber)	
Rails	6 of 12" x 1" x 5.5"	
Stiles	4 of 8" x 1" x 5.5"	
Diagonals	2 of 12" x 1" x 5.5"	
Vertical Boards for Front	26 of 8" x 1" x 5.5"	
Fasteners Required		
Approximately 100 of 1.75" x #8 wood screws (stainless preferred)		
28 of 3.5" x 3/8" carriage bolts (hot dipped galvanized or stainless steel), nuts, and washers		
Mounting Plate Fasteners - 20 of 3/8" carriage bolts that are 1" longer than thickness of gate post (preferred) or 20 of 3/8" lag bolts (minimum of 4" long)		

Download includes this materials list, component cutting and layout sheet, tips on installing gate posts, and detailed instructions. For a complete listing of our free gate plans and gate layouts visit [HingeandLatch.com](http://HingeandLatch.com).

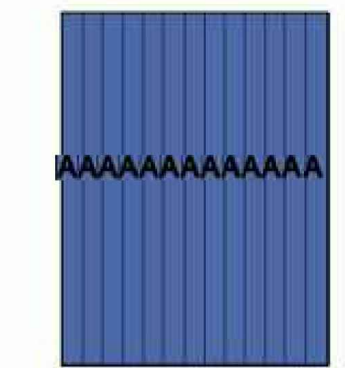
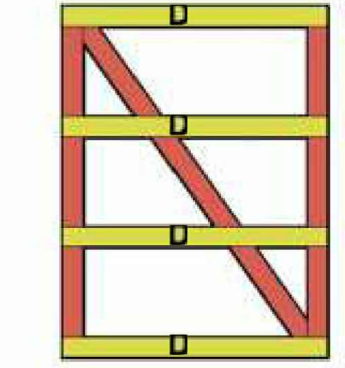
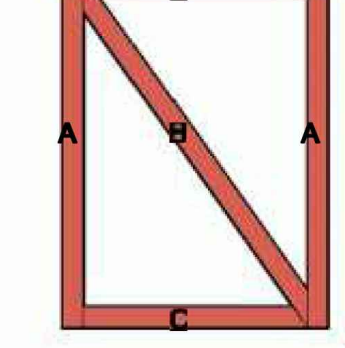
**COMPONENTS (FULL 1" THICK x 5-1/2" WIDE)**



**FLAT FRONTAL VIEW**



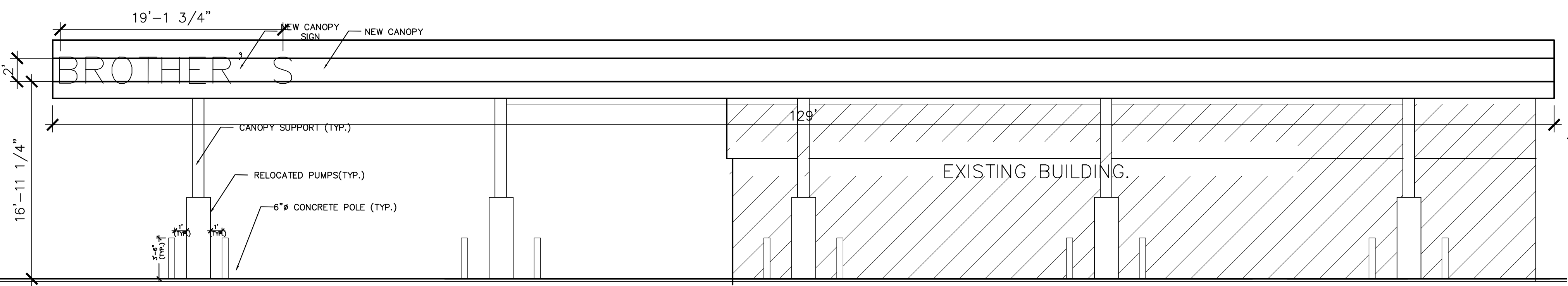
**THREE LAYERS**



**6 YARD DUMPSTER ELEVATION**  
SCALE: N.T.S.

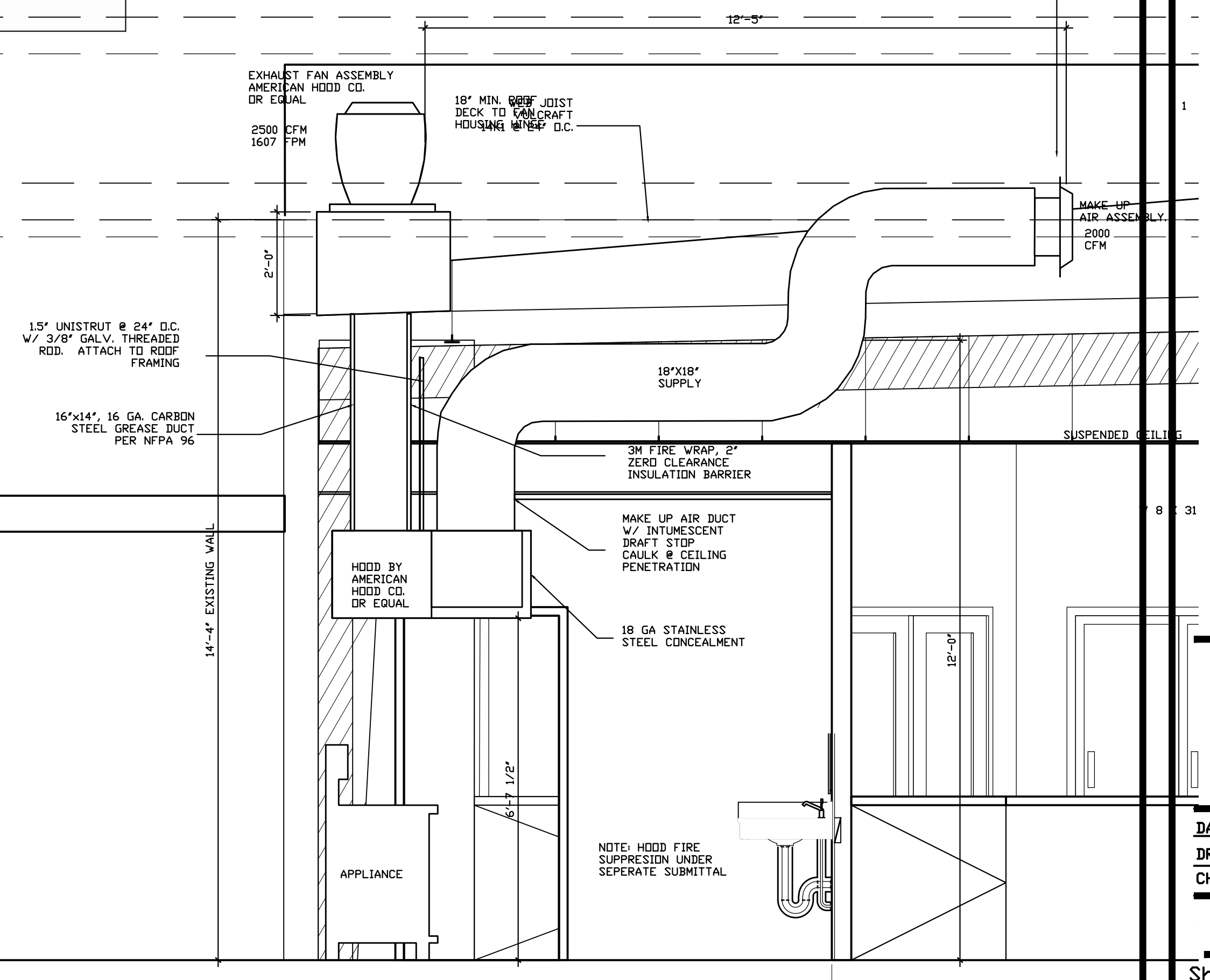
.84" OR 96"

**1 6' & 8' WOODEN FENCE ELEVATION**  
A-5.0 SCALE: N.T.S.



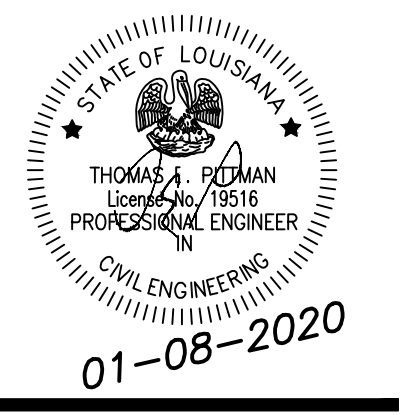
**2 CANOPY FRONT ELEVATION**  
A-5.0 SCALE: 1/4"-1'-0"

**NOTE:**  
ONLY THE LETTERS "BROTHERS" WILL BE ILLUMINATED. THOSE LETTERS TOTAL 37 SQFT. LINEAR FRONTAGE OF CANOPY IS 129'



**3 HOOD DETAIL**  
A-5.0 SCALE: 1/2"-1'-0"

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Sheet Title:  
CANOPY,  
DUMPSTER  
& FENCE  
ELEVATIONS

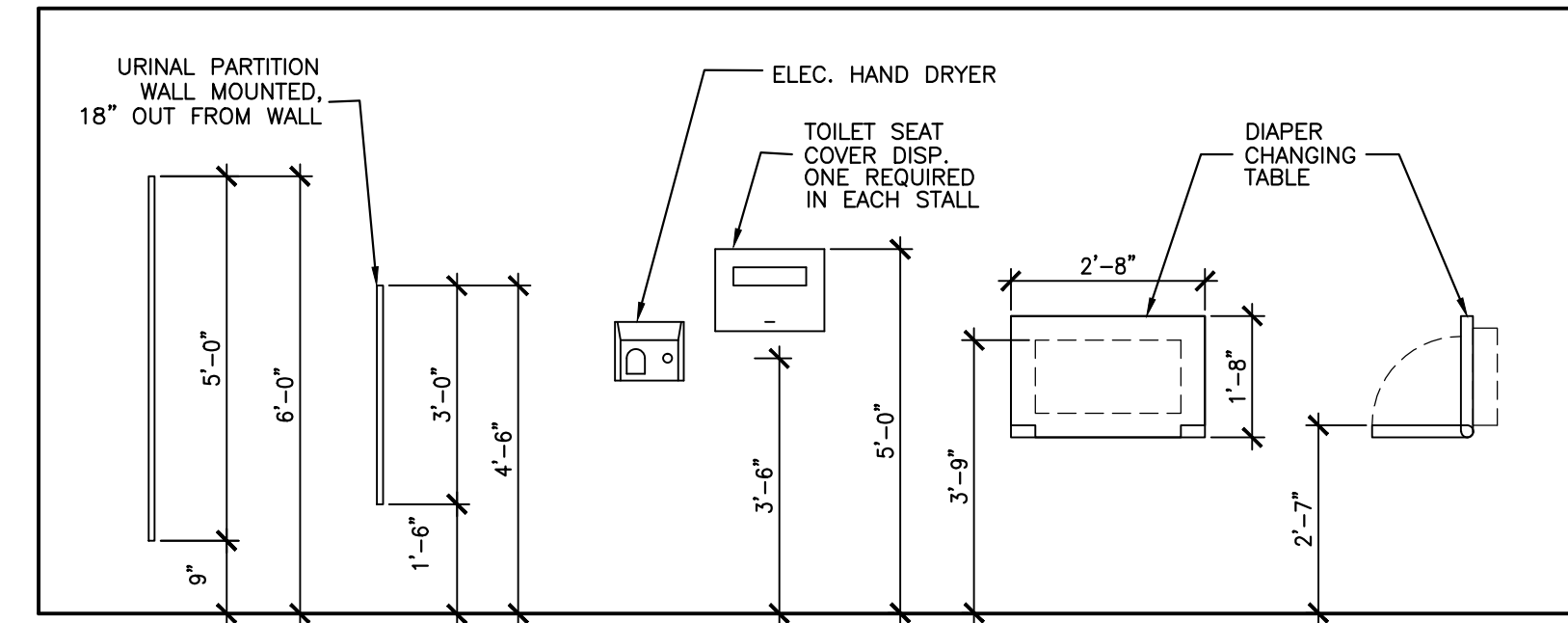
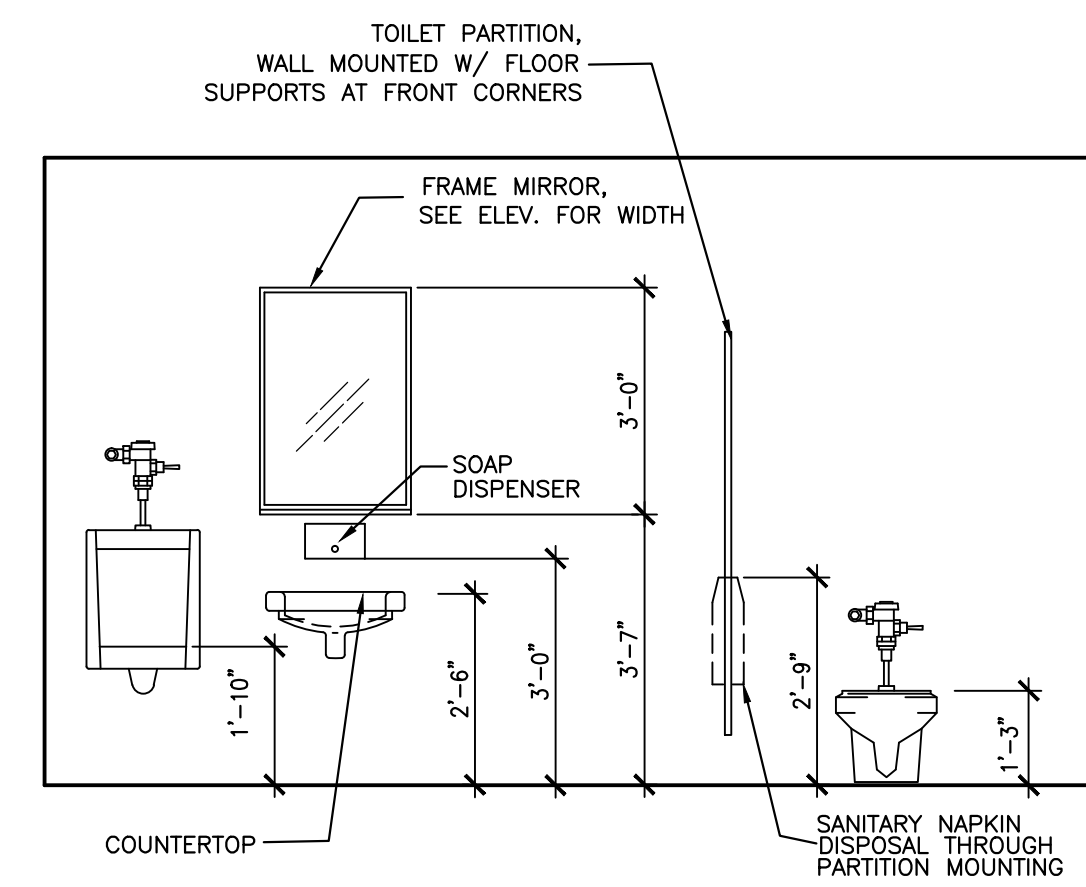
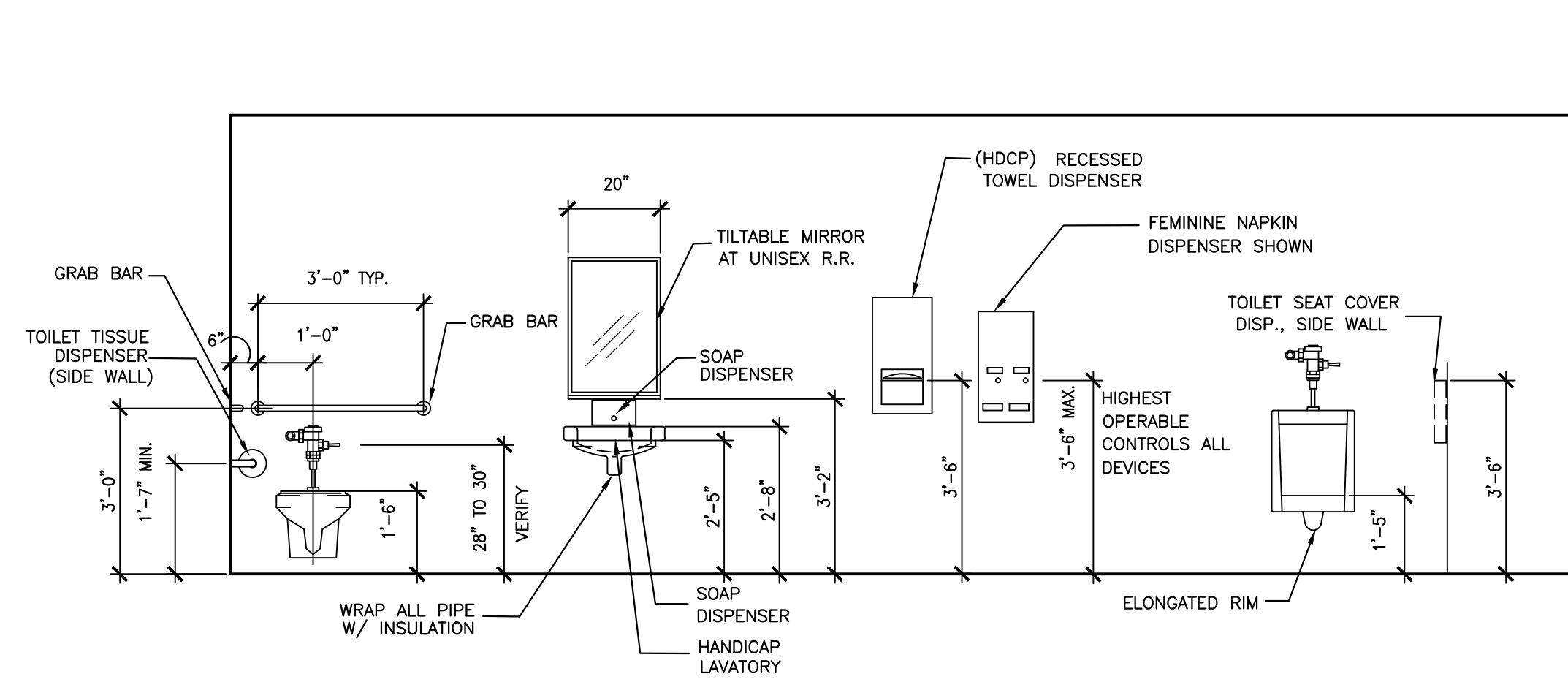
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A-5.0

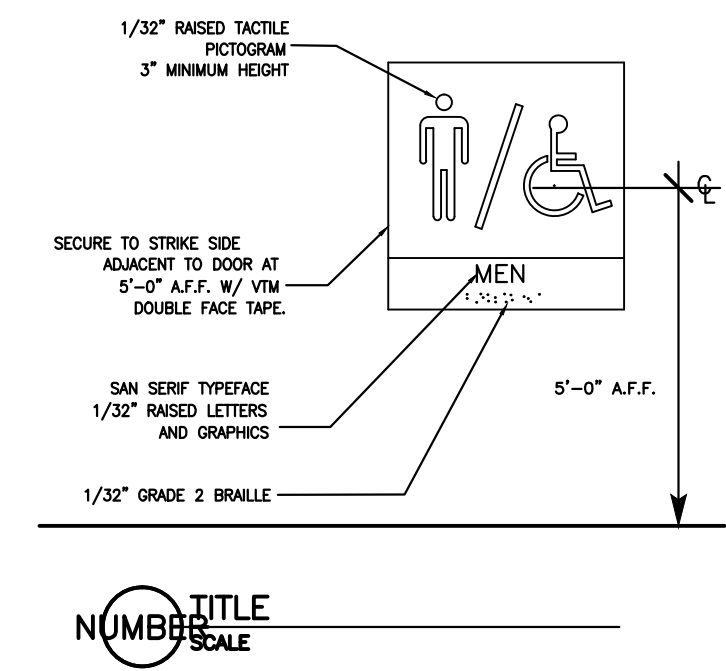
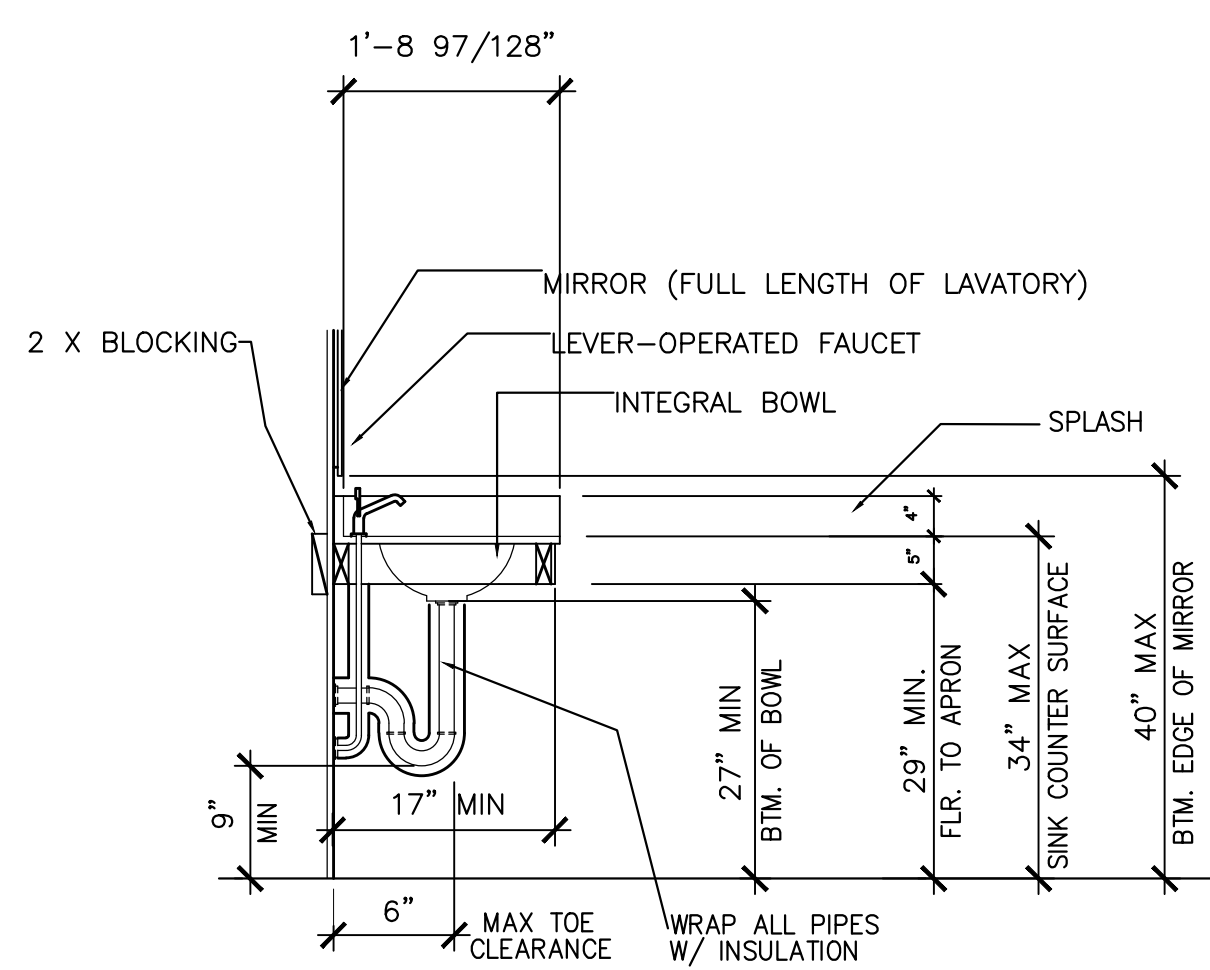
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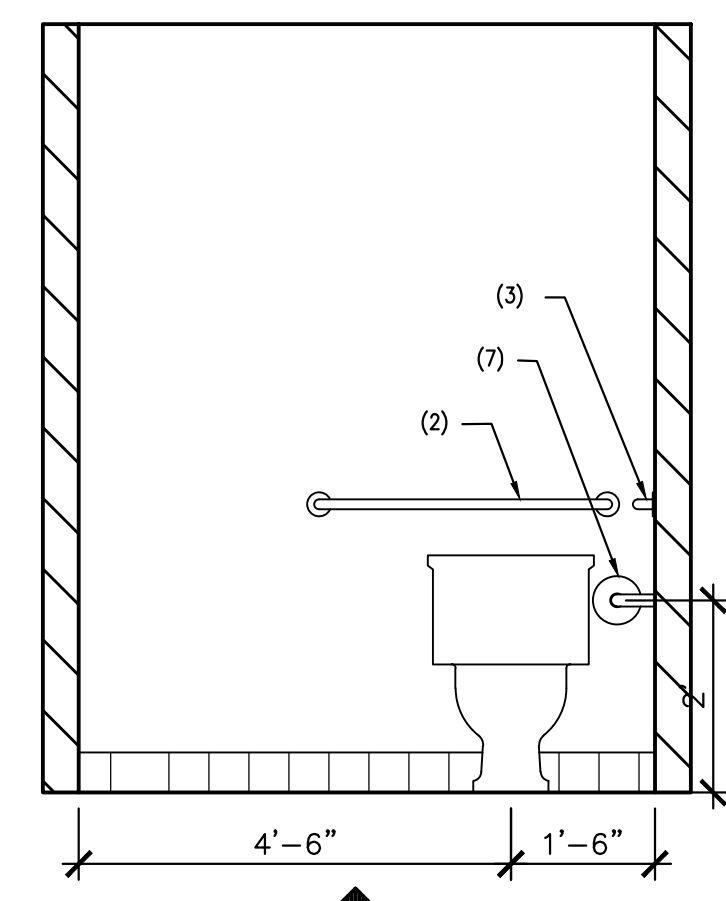




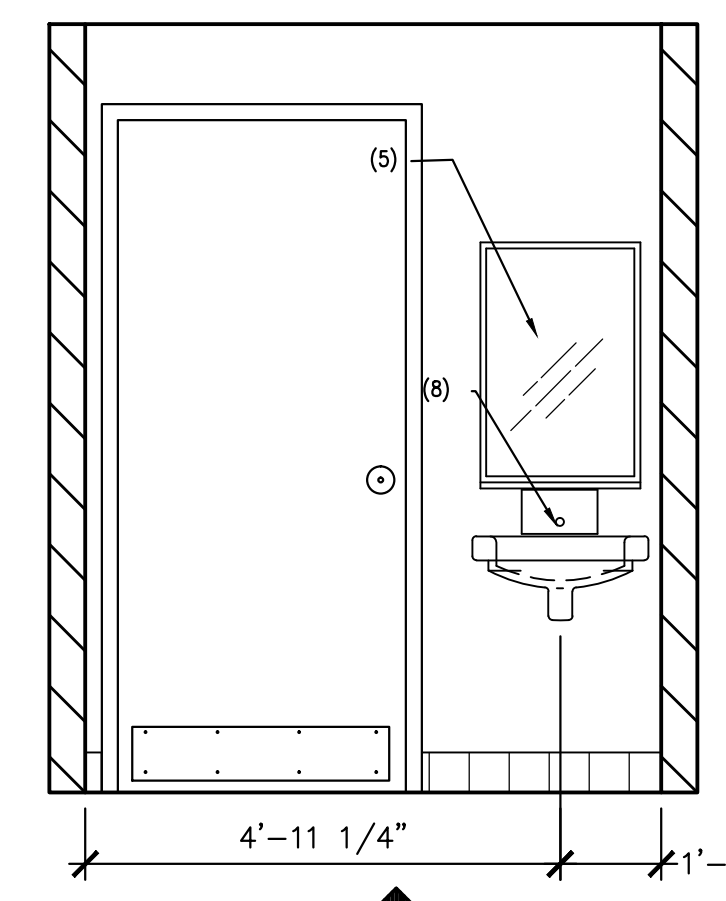
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NUMBER TITLE SCALE



NUMBER TITLE SCALE



NUMBER TITLE SCALE

ACCESSORIES SCHEDULE (1)

KEY	ITEM / DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
1	SEMI RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	---	SATIN FINISH STAINLESS STEEL MOUNTING HEIGHT 60" TOP OF UNIT
2	GRAB BAR	BOBRICK	B-5806 SERIES 36" X 1 1/4" DIAM.	
3	GRAB BAR	BOBRICK	B-5806 SERIES 42" X 1 1/4" DIAM.	
4	TOILET PAPER DISPENSER	BOBRICK	B-2740	MOUNTING HEIGHT 35" TOP OF UNIT
5	POLISHED EDGE PLATE MIRROR			
6	MOP & BROOM HOLDER	BOBRICK	B 29X34	MOUNT TOP @ +60" A.F.F. CONTRACTOR TO PROVIDE BACKING
7	MULTIROLL SURFACE MOUNTED TOILET TISSUE DISPENSER	BOBRICK	B-6977	
8	FLUSH SOAP DISPENSER	BOBRICK	B-4112	
9	RECESSED SANITARY NAPKIN / TAMPON DISPENSER	BOBRICK	B-3500	
10	DIAPER CHANGING TABLE	BOBRICK	B-2210	
11	RECESSED TOILET TISSUE DISPENSER	BOBRICK	B-6637	WITH STORAGE SPACE FOR EXTRA ROLL

INSTALL TOILET ACCESSORIES IN ACCORDANCE WITH ADA MOUNTING HEIGHT REQUIREMENTS.

**ACCESSIBILITY REQUIREMENTS**

GENERAL NOTE: IT IS THE INTENT OF THIS PROJECT TO MAKE THE PUBLIC RESTROOM TOILETS COMPLY WITH THE REQUIREMENTS OF THE STATE & LOCAL ACCESSIBILITY STANDARDS AND THE FEDERAL ADA. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE THE FOLLOWING ITEMS COMPLY:

- THE 3'-0" ENTRANCE DOORS MUST BE CAPABLE OF OPENING AT LEAST TO 90 DEGREES AND HAVING A CLEAR UNOBSTRUCTED OPENING WIDTH OF AT LEAST 32 INCHES WITH THE DOOR LEAF IN THE OPEN POSITION.
- THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELLED WITH A SLOPE NO GREATER THAN 1 TO 2.
- THE MAXIMUM EFFORT TO OPERATE DOORS SHALL BE 5 LBS. FOR INTERIOR DOORS.
- ALL SIGNS REQUIRED AND CALLED FOR ARE TO BE CITY, STATE, AND FEDERAL APPROVED.
- THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF THE TOILET SEAT.
- THE WATER CLOSET IS TO BE 18 INCHES FROM ITS CENTER LINE TO THE ADJACENT WALL.
- TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44 INCHES ABOVE THE FINISHED FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
- THE ACCESSIBLE URINAL SHALL HAVE A RIM PROJECTING A MINIMUM OF 14 INCHES FROM THE WALL AND BE AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR. URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
- LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH A KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES IN WIDTH WITH 8 INCHES HIGH FROM THE FLOOR AND A MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY. A PROJECTION OF A LAVATORY BOWL INTO THE 8 INCH CLEAR SPACE THEREBY REDUCING THE CLEAR HEIGHT BELOW THE LAVATORY TO NO LESS THAN 27 INCHES AT 8 INCHES BACK FROM THE APRON, MEETS THE REQUIREMENT FOR PROVIDING KNEE CLEARANCE. THERE IS TO BE A MAXIMUM HEIGHT OF 34 INCHES TO THE TOP OF THE LAVATORY. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE LAVATORY. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
- MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NOT MORE THAN 38 INCHES ABOVE FINISHED FLOOR.
- LOCATE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 48 INCHES ABOVE FINISHED FLOOR.
- LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 36 INCHES OF THE REAR WALL. DISPENSER MUST ALLOW CONTINUOUS PAPER FLOW AND MUST NOT CONTROL DELIVERY OF PAPER.
- GRAB BARS, FASTENERS, AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 POUNDS PER LINEAR FOOT LOAD. GRAB BARS AT THE SIDE AND BACK OF THE PHYSICALLY DISABLED TOILET STALL SHALL BE SECURELY ATTACHED 33 INCHES ABOVE AND PARALLEL TO THE FLOOR. GRAB BAR AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED AT LEAST 54 INCHES FROM THE REAR WALL. GRAB BAR AT THE BACK SHALL BE NOT LESS THAN 36 INCHES LONG AND BE POSITIONED NO MORE THAN 6 INCHES FROM THE SIDE WALL. THE DIAMETER OF A GRAB BAR SHALL BE 1-1/4 INCH TO 1-1/2 INCH AND SHALL NOT ROTATE IN THEIR FITTINGS.

NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

REVISION 01-08-2020

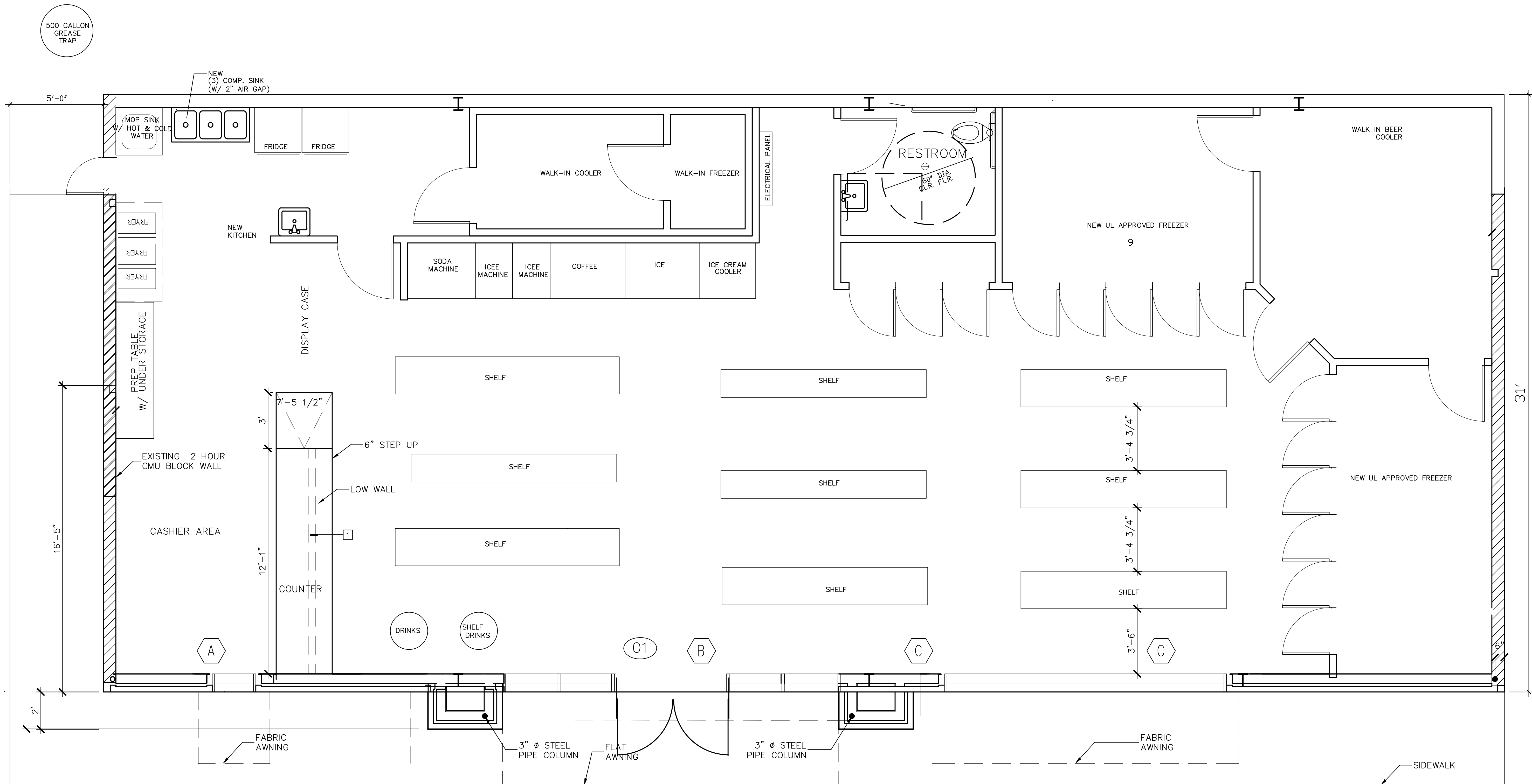
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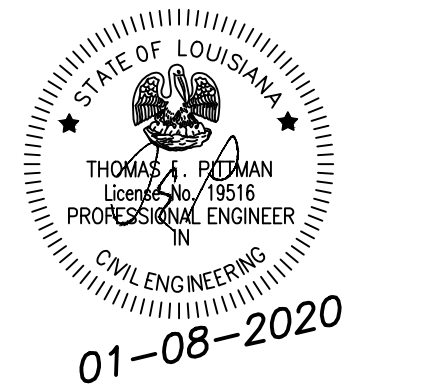
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 CHECKED BY: TEP

Sheet Title:  
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 RESTROOM  
 PLAN

Drawing No.  
 A-6.0



RENOVATION & ADDITION  
 BROTHERS ST. CLAUDE  
 5401 ST. CLAUDE AVENUE  
 NEW ORLEANS, LA  
 ORLEANS PARISH



THOMAS E. PITTMAN P.E.  
 CONSULTING ENGINEER  
 27011 REGENCY PARK DR.  
 DENHAM SPRINGS, LA. 70726

DATE: 01-08-20  
 DRAWN BY: CMT  
 CHECKED BY: TEP

Sheet Title:  
 SCHEDULES  
 RESTROOM  
 PLAN

Drawing No.  
 A-7.0

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REVISION 01-08-2020

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### Flood Barrier Product Specification Sheet

#### 1.1 SUMMARY

Furnish and install engineered flood barrier panel system including but not limited to following:

- Removable panel assemblies.
- Anchors and through bolts for panel installation.
- Waterproof sealant and grout.
- Panel accessories.

#### 1.2 WORK INCLUDED

- Product engineering and fabrication techniques shop drawings.
- Factory fabrication of aluminum flood barriers.
- The finish of flood barrier assembly.

#### 1.3 RELATED WORK

- Section 07600 Flashing and Sheet Metal
- Section 07900 Joint Sealers

#### 1.4 REFERENCES

- FEMA Technical Bulletin 3-93 Non-Residential Floodproofing
- FEMA Floodproofing Non-Residential Structures #102
- FEMA Design Manual for Retrofitting Flood-Prone Residential Structures #114
- NFIP Title 44US Code of Federal Regulations, Section 60.3
- ASTM B209 - Specification for Aluminum Alloy, Sheet and Plate.
- ASTM B221 - Aluminum and Aluminum-Alloy extruded bars, rods, wire, shapes, and tubes.
- ASME Structural Welding Code Section IX
- AWS Structural Welding Code D1.1
- American Architectural Manufacturers Association (AAMA) 501, 603.8, 605.2, 607.1
- NFIP Title 44 US Code of Federal Regulations, Section 60.3
- FIRM (Flood Insurance Rate Map)
- ASCE 24-98, ASCE/SEI 24-05
- All applicable federal, state and municipal codes, laws and regulations for exits.

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### Flood Barrier Product Specification Sheet

#### 1.5 QUALITY ASSURANCE

- All surfaces to receive Flood Barriers shall be smooth, plumb, true and level before installing.
- Provide for a flood barrier and application that is structurally sound, impact resistant and conforming to applicable performance requirements.
- All Barrier heights shall be finished to 12" above BFE (Base Flood Elevation).
- Provide Flood Proofing Certification for compliance and approval.
- Supervision: Arrange for product manufacturer's technical representative to provide the following services:
  1. Meet and discuss installation procedures and unique conditions on site.
  2. Inspect substrate surfaces and recommend solutions to accommodate adverse conditions.
  3. Periodically visit and inspect the installation and report unsatisfactory conditions to Contractor.
  4. Attend final inspection and to submit written certification that Products, systems, and assemblies have been installed in accordance with manufacturer's requirements.

#### 1.6 SEEPAGE

Requirements for aluminum flood barriers, terminology, tolerances, standards of performance and workmanship are those specified as Type 2 Closures in Chapter 7, Section 701.1.1 of the US Army Corps of Engineers "Flood Proofing Regulations". These Type 2 Flood Closures/ Barriers will allow "Slight Seepage" during hydrodynamic and hydrostatic pressure flood conditions. Seepage amounts will vary with conditions encountered. This issue should be addressed by design professional and usage of sump or bilge type pumps should be used to offset potential water build-up.

#### 1.7 PERFORMANCE REQUIREMENTS

- **General:** Design, fabricate, assemble and erect flood barrier panel assemblies, and interfacing conditions with continuous work, to ensure continuity of building the enclosure and that all segments of the assemblies will be free from leakage. In addition to the specified performance requirements, flood barrier panel assemblies shall conform to, or exceed the requirements of the applicable building code and referenced industry standards for operating forces, deflection and deformation under load.
- **Engineering criteria:** The manufacturer for flood barrier panel assemblies shall employ the services of a qualified structural engineer, registered to practice in the State of Florida, to prepare all calculations and other performance criteria for the respective systems, and bear all costs, therefore. All shop drawings for the components of the respective systems shall bear the registration stamp of the engineer.
- **Design:** Flood barrier panel assemblies shall provide a minimum 2:1 factor of safety based on the yield strength of materials and provide an effective seal against anticipated flood level.

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### Flood Barrier Product Specification Sheet

#### • Performance

- **Hydrostatic Pressure Resistance** - Flood Barriers shall conform to criteria for resisting lateral forces due to hydrostatic pressure from Free Standing Water as set forth by FEMA Technical Bulletin 3-93.
- **Hydrodynamic Force Resistance** - Flood Barriers shall conform to criteria for resisting lateral forces due to moving flood waters at a minimum velocity of 8 ft. per second unless otherwise noted, as set forth by FEMA Technical Bulletin 3-93.
- **Debris Impact Force Resistance** - Flood Barriers shall conform to criteria for resisting a 1000 lb. an object at the minimum velocity of 8 ft. per second unless otherwise noted, as prescribed by FEMA Technical Bulletin 3-93.
- **Egress:** Provide for a fully removable system including all frame, sill, and jamb assembly members. Permanent sub-frame assemblies shall be non-removable.
- **Manufacturing Criteria:** The manufacturer shall have a minimum of 5 years' history and experience in this product line.
- **Testing Requirements:** Provide manufacturer's testing and submit test data showing compliance with specified requirements for largest anticipated flood barrier panel assemblies. Demonstrate compliance with specified requirements.
- All welds in the potential "leak path" shall be liquid penetrant inspected in accordance with Appendix VIII of Section VIII Div. 1 of ASME Code.
- Proof test and leak test all inflatable seals per manufacturer's instructions.
- Finished assembly, or assembly similar in design, shall be factory leak tested to verify that it will withstand the design pressure.
- Provide certification from an independent testing laboratory indicating satisfactory test results showing compliance with design pressures.

#### 1.8 SUBMITTALS

1. **Literature:** Manufacturer's product data sheets, specifications, fabrication methods, finishes, performance data, and installation instructions for each item furnished hereunder.
2. **Warranty:** Provide sample copies of manufacturer's actual warranties for all materials to be furnished under this Section, clearly defining all terms, conditions, and time periods for the coverage thereof.
3. **Shop drawings:**
  - a. 1/4 inch scale elevations and plans of each flood barrier panel assembly condition.
  - b. Large scale design details of flood barrier panel assemblies; indicating sizes, types, and gauges of all

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### Flood Barrier Product Specification Sheet

components; indicating types and thickness of bracing and stabilizing members; attachment clips and brackets; and complete installation details.

#### 1.9 WARRANTY

- Stating that flood barriers for above project will be free from defects and workmanship for a period of three years from the date of substantial completion.

#### 1.11 STACKABLE ALUMINUM FLOOD BARRIERS FOR DOORS

- Stackable Flood Barriers for doors are engineered to restrain the force of water and debris by means of structural extruded members in a compression set against a smooth substrate utilizing rubber gasket seals in either an inset or face mounted application.
- Flood barriers shall be specifically engineered and designed to meet a minimum safety factor based on yield strength to provide an effective seal against site specific and specified flood forces.
- Building Contractor shall provide for onsite storage of removable flood barrier system for quick access.

#### 1.12 CLEANING, PROTECTION, AND STORAGE

- When not used, remove the panel from the brackets. Clean all exposed surface from dirt, mud, etc. Make sure the gasketing seal is clean and dry. Store in a cool dry area with no weight against the rubber part.
- No special maintenance required for the brackets. Check and clean periodically.
- Inspect and repair all gasketing seals for optimum performance.
- Flood barrier shields and closures, to ensure that they fit properly and that the gaskets and seals are in good working order, properly labeled and stored as indicated in the Flood Emergency Operation Plan.

#### 1.13 FIELD MEASUREMENTS

- Verify that field measurements are as indicated on shop drawings.

#### 1.14 MATERIALS

- Extruded aluminum structural frame members, support angles, and mullions shall be 6063-T6 alloy and temper and not be less than 1/8" wall thickness.
- Aluminum sheet skin shall be 3003-H 16 alloy and temper and not less than 1/8" wall thickness on the exterior sheet and not less than 0.024" on the interior sheet.
- Extruded aluminum brace plates shall be 6063-T6 alloy and temper and not be less than 1/8" wall thickness.
- Gaskets to be factory mounted to flood panel assembly on sides and bottom of the panel. Gaskets to be compressible EPDM rubber type, field replaceable.

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### Flood Barrier Product Specification Sheet

- Fasteners: Anchor bolts shall be Type 304 stainless steel.
- Sealants: Use only sealants that are compatible with all substrates and field applied in accordance with the manufacturer's recommendations.

#### 1.15 FLOOD BARRIER PANELS

**General:** Solid removable flood barrier for single or double door applications engineered to withstand hurricane forces and floodwater hydrostatic impacts. Panels shall be engineered to the full "designed flood elevation" (height required), and edged with a rubber gasket. Panels are connected to the floor and sides of each opening or each other by pre-installed anchors and through-bolts.

1. Flood barriers shall be engineered and designed to meet a minimum safety factor based on yield strength to provide an effective seal against site specific and specified flood forces.
2. Anchors to be the permanent drop-in threaded type, accommodating installation and removal as required.
3. Provide panel and frames in heights indicated on the Drawings.
4. Finish: Mill finish aluminum

#### 1.16 FABRICATION

1. Fabricate flood barriers to comply with requirements indicated for engineering, design, dimensions, materials joinery, and performance. Assemble flood barriers at manufacturer's factory. Assemble in the largest possible sections per job site conditions and clearly mark units for reassembly assuring a coordinated installation.
2. Fabricate frames including integral sills to fit in openings of the size indicated with allowances for fabrication and installation tolerances of barriers, adjoining construction and perimeter rubber gasket joints.
3. Supports, anchorages and accompanying accessories required complete assembly to be supplied by installing contractor.

#### 1.17 EXAMINATION

1. Verify that opening sizes and tolerances are acceptable and in compliance with these specifications and applicable codes.
2. Beginning of installation means acceptance of existing conditions.

#### 1.18 INSTALLATION

- All surfaces where Flood Barrier Shield will be installed shall be smooth, plumb and level before installation can begin.

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### Flood Barrier Product Specification Sheet

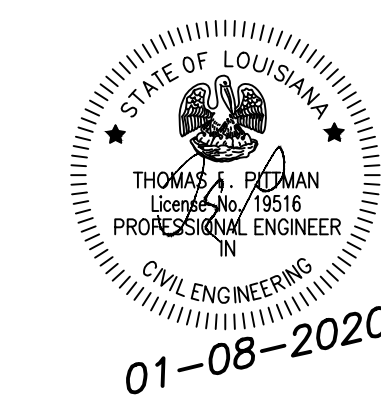
- After properly preparing the openings, install flood barriers per the installation instructions.
- Attach only to smooth surfaces providing for proper and compatible infill for gaps in the substrate. Existing slabs and walls adjacent to openings where flood barriers are to be installed shall be given a waterproof sealer surface treatment prior to installation of flood barriers by the building contractor.
- Install true and plumb without warping or racking.
- Apply appropriate sealants where indicated on shop drawings and in accordance with manufacturer's recommendations.
- Supports, anchorages and accompanying accessories required complete assembly to be supplied by installing contractor.

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NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

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NEW ORLEANS, LA  
NEW ORLEANS PARISH



THOMAS E. PITTMAN P.E.  
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DATE: 01-08-20  
DRAWN BY: CMT  
CHECKED BY: TEP

Sheet Title:

FLOOD BARRIER SPECIFICATIONS

Drawing No.

A-8

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## Flood Barrier Product Data Sheet

Flood Guard uses an inventive design that provides a lightweight, cost-efficient, and reliable flood protection option for openings in most buildings. The product is engineered to provide a watertight guard that protects and prevents water ingress through doors and windows.

Compression seals, made of solid rubber extrusion (SRE), used on the bottom of the guard. This SRE aids in creating a tight seal around the perimeter of the product. In addition, the removable guard can be conveniently stored. Upon news of rain or a flood, simply drop down the guard into the pre-installed aluminum brackets.

The guards are used to deflect unwanted water from penetrating doors and windows. Large openings, garage doors, standard commercial openings, and residential openings, are all ideal applications for the Legacy product to be used.

The aluminum channels used in the Flood Guard are extruded aluminum. The guard itself however is a 5052 type marine grade aluminum. The SRE has been engineered to be specific for this type of application. The rubber compensates for any gaps around the door or window. As water hits the guard, the horizontal hydrostatic pressure is converted to downward pressure on the SRE causing a secure, tight seal around the perimeter of the frame.

- Easy and affordable flood protection
- Heavy-duty, rust-free, marine grade components
- Guards are easy to store
- Exceeds FEMA & NFIP floodproofing certification standards



### PRODUCT SPECIFICATIONS

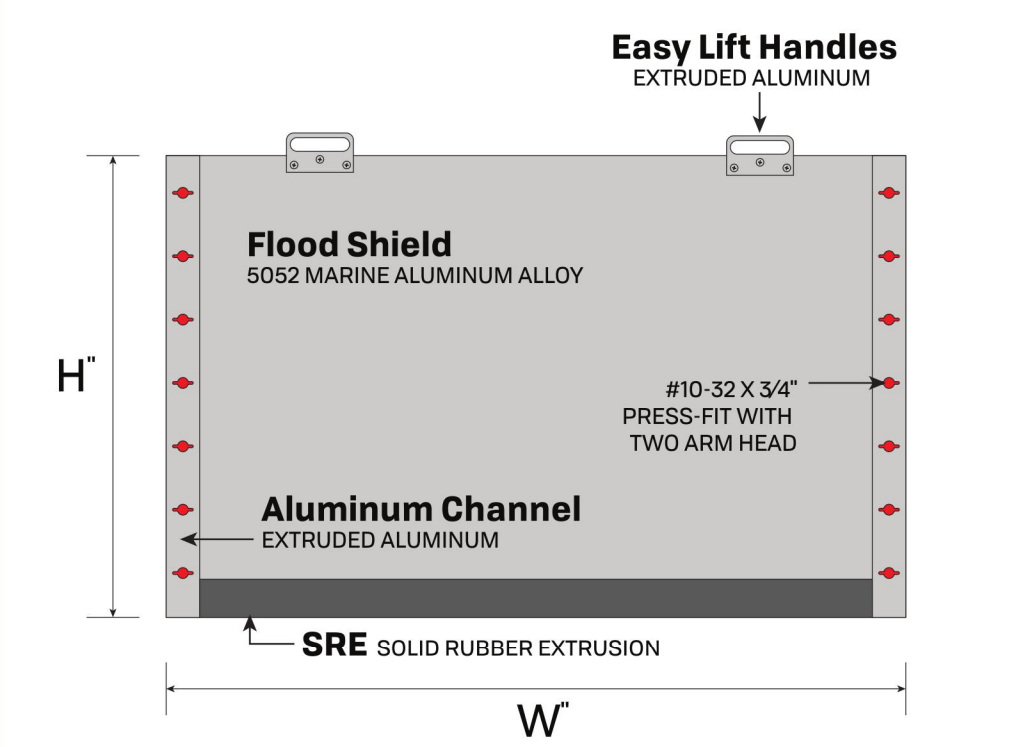
<b>Guard</b>	5052 marine aluminum alloy
<b>Frames</b>	Channel 6062 alloy T5-T6, with 10-32 stainless steel Allen head tightening screws every 8" on center.
<b>Seal</b>	SRE composed of high density for strength and low hardness for compression rubber extrusions.
<b>Hardware</b>	#10 x 1-1/4" FHPH with plastic expansion tube anchors. Snap covers for safety provided for the top of the channels and for the mounting holes.
<b>Installation</b>	To install Hollow Metal Frames, Aluminum Frames, Wood Frames. To install on concrete, brick or metal surface outside the frame.
<b>Floor Surface</b>	Optional flat 1/4" x 2" bevels on 2 sides aluminum plate.

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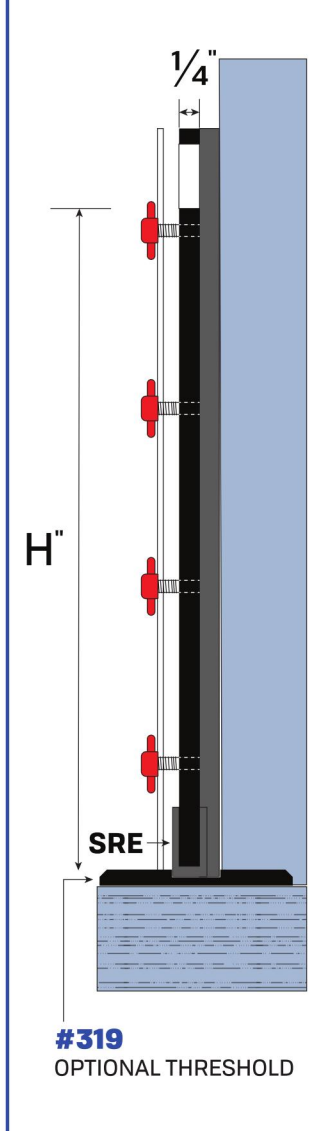


## Flood Barrier Product Specs

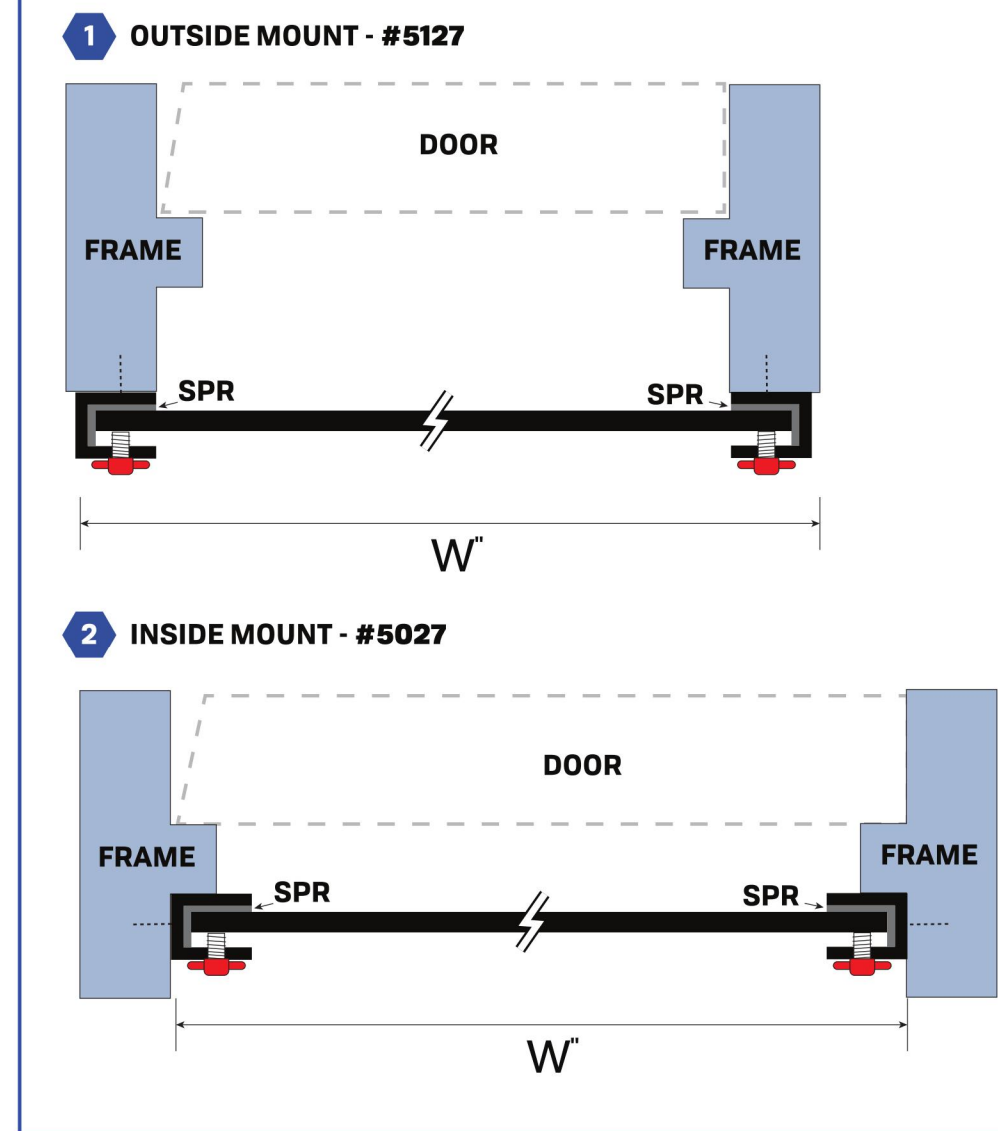
### FRONT VIEW



### SIDE VIEW



### TOP VIEW



### MATERIALS / SPECIFICATIONS

- 5052 type Marine-grade Aluminum
- 3/4" x 3/4" x 1/4" channel aluminum extrusion
- #10-32 x 3/4" Stainless Steel screws, press fit with two arm head
- Close cell sponge compression EPDM, SRE type

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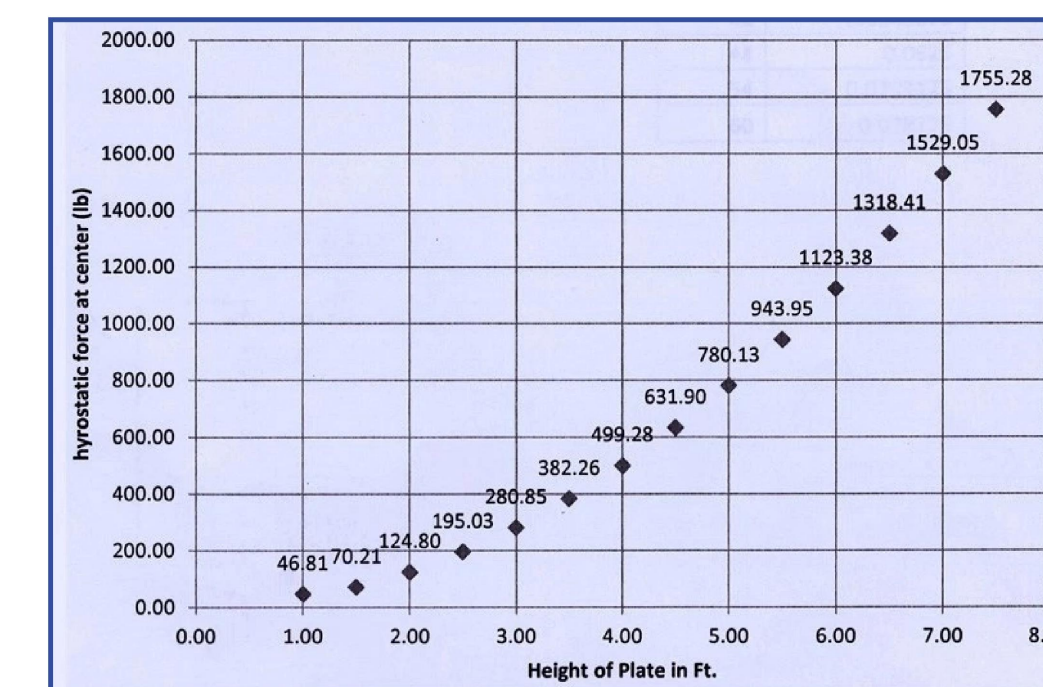


## Flood Barrier Technical Information

### HYDRO-STATIC FORCES/PLATE (LB/SQ. FT)

INCHES	12	18	24	30	36	42	48	54	60
12	48.81	70.21	124.80	195.03	280.85	382.26	499.28	631.90	780.13
18	70.215	105.315	187.20	292.545	421.275	573.39	748.92	947.85	1170.195
24	93.62	140.42	249.60	390.06	561.70	754.52	998.56	1263.8	1560.26
30	117.025	175.525	312	487.575	702.125	955.65	1248.20	1579.75	1950.325
36	140.43	210.63	374.4	585.09	842.55	1146.78	1497.84	1825.70	2340.39
42	163.835	245.735	436.8	682.605	982.975	1337.91	1747.48	2216.65	2750.455
48	187.24	280.84	499.20	780.12	1123.4	1529.04	1997.12	2527.6	3120.52
54	210.645	315.945	561.6	877.635	1263.825	1720.17	2246.76	2843.55	3510.585
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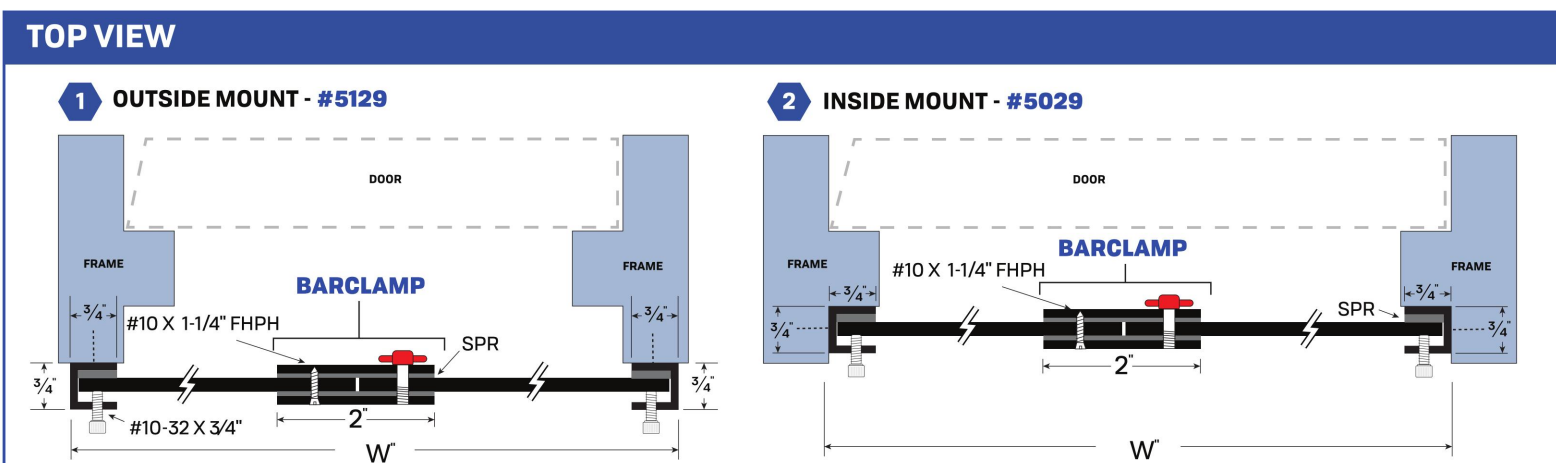
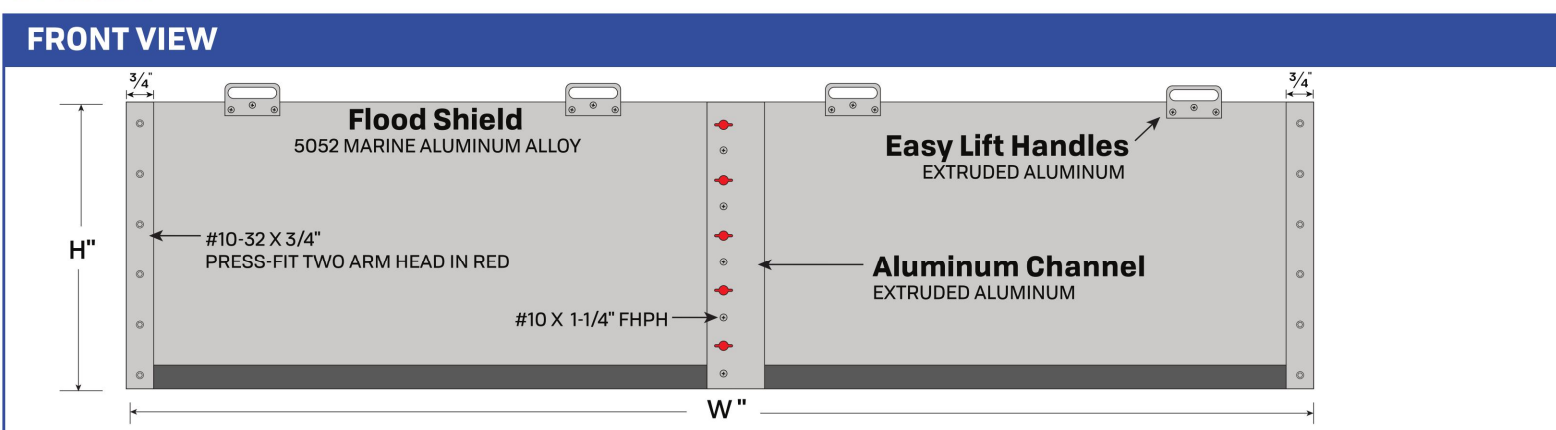
### HYDRO-STATIC FORCE AT CENTER (LB/SQ. FT)



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## Oversized Flood Barrier Product Specs



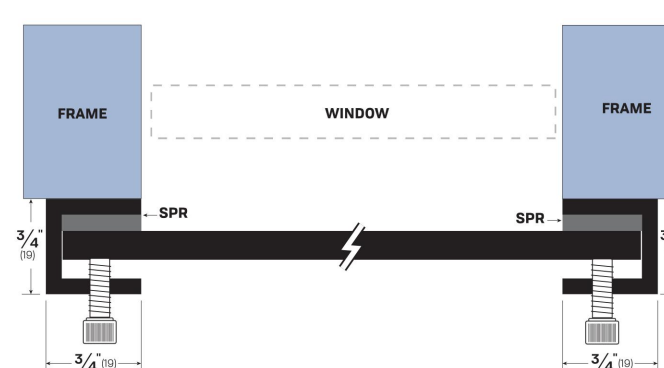
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- 3/4" x 3/4" x 1/4" channel aluminum extrusion
- 3.1 lbs. per square foot
- #10-32 x 3/4" Stainless Steel screws, press fit with two arm head
- Close cell sponge compression EPDM, SRE type

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## Window Flood Barrier Product Specs



### MATERIALS / SPECIFICATIONS

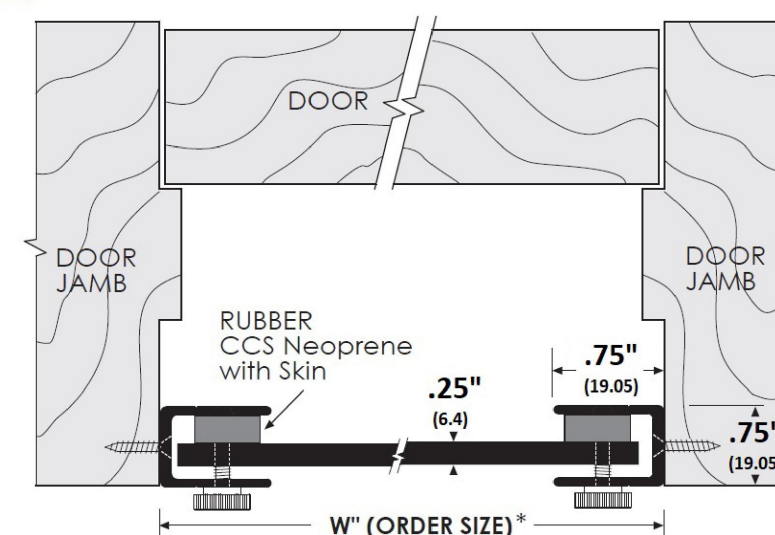
- 3/4" x 3/4" x 1/4" channel aluminum extrusion
- 2" x 1/4" aluminum bracket
- Threaded insert 10 x 32 x 7/8" inside thread, stainless steel
- #10 Stainless steel washer
- Close cell sponge compressive EPDM with pressure sensitive water resistant tape.
- 10-32 x 5/8" internal hex socket cap head screws
- 33 lbs. per square foot

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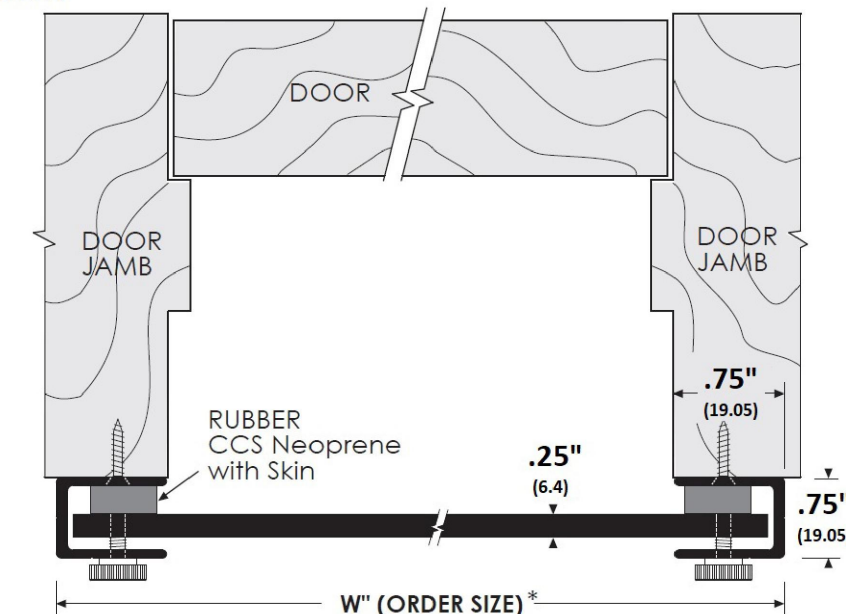


## Flood Barrier Mounting Options

### INSIDE MOUNT:



### OUTSIDE MOUNT:



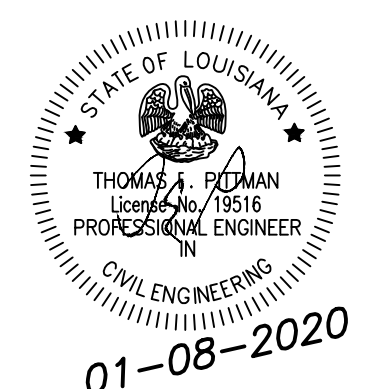
\* Aluminum panel insert is supplied approx. 7/16" shorter than order size

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NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

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RENOVATION & ADDITION  
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5401 ST. CLAUDE AVENUE  
NEW ORLEANS, LA  
ORLEANS PARISH



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CONSULTING ENGINEER  
27011 REGENCY PARK DR.  
DENHAM SPRINGS, LA. 70726

DATE: 01-08-20  
DRAWN BY: CMT  
CHECKED BY: TEP

Sheet Title:

FLOOD BARRIER SPECIFICATIONS

Drawing No.

A-9

CONTRACTOR SHALL DIRECT ANY QUESTIONS PERTAINING TO THESE PLANS TO THE ENGINEER. ANY DEVIATIONS FROM THESE PLANS WITHOUT CONSULTING AND/OR WRITTEN CONSENT FROM THE ENGINEER SHALL NULL AND VOID ALL LIABILITIES

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 DENHAM SPRINGS, LA. 70726

DATE: 01-08-20  
 DRAWN BY: CMT  
 CHECKED BY: TEP

Sheet Title:  
 FOUNDATION  
 PLAN

Drawing No.

S-1

**CONCRETE GENERAL NOTES:**

1. REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.
2. FOUNDATION DESIGN BASED ON A-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D- 698). FILL PLACED @ 8" MAX. LIFTS.
3. ALL CONCRETE SHALL DEVELOP 3,000 PSI COMPRESSIVE STRENGTH @ 28 DAYS. PLACE CONCRETE W/MAXIMUM SLUMP OF 6".
4. GRADE 40 DEFORMED REINFORCING.

**IRC 2015 FOUNDATION NOTES**

SECTION 301 - DESIGN LIVE LOAD = 100 PSF

**SECTION 402**

- 3,000 PSI CONCRETE

**SECTION 403**

- 12" MINIMUM FOOTING WIDTH
- ANCHOR FLOOR PLATES TO SLAB WITH 5/8" A307 ANCHOR BOLTS (3" LEG) WITH A MINIMUM EMBEDMENT OF 7" WITH 3" X 3" X 1/8" WASHERS SPACED @ 12" O.C. BEGINNING 12" FROM THE CORNER AND RUNNING FOR 4'-0". BEYOND 4'-0" FROM THE CORNER, SPACE THE BOLTS @ 36" O.C. MAX.

**SECTION 404**

- CONCRETE SHALL CONFORM TO ACI 318, LATEST EDITION
- SLUMP NOT TO EXCEED 6"
- 3" COVER FOR REINFORCING, TOP AND SIDES

**SECTION 506**

- MINIMUM FLOOR THICKNESS 3.5"
- 6 MIL VAPOR BARRIER REQUIRED.

**SECTION 611**

- 25" LAP WITH 2 TIES REQUIRED AT REINFORCING SPLICES.
- 12" HOOK REQUIRED AT CORNERS

**SEQUENCE OF CONSTRUCTION:**

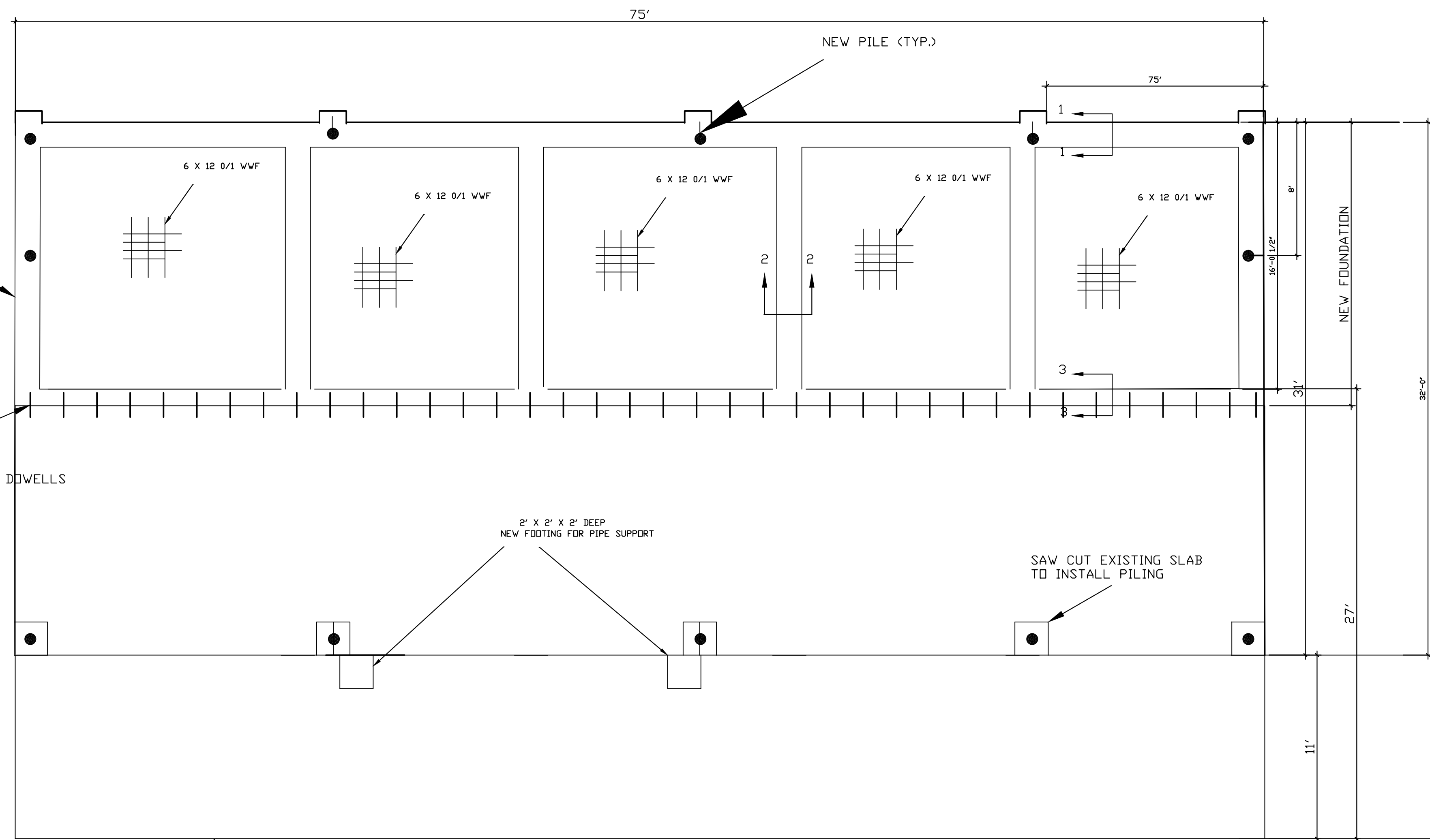
1. REMOVE FRONT AND REAR WALLS
2. SAW CUT EXISTING SLAB AT FRONT OF RELOCATED BUILDING AND AT NEW FOOTINGS.
3. DRIVE PILES AT DESIGNATED LOCATIONS
4. INSTALL NEW FOOTINGS, BEAMS, AND SLAB AS SHOWN ON PLAN TO MAKE READY FOR STEEL ERECTION.

NOTE: CONTRACTOR TO VERIFY EXISTING COLUMNS LOCATION BEFORE START OF CONSTRUCTION

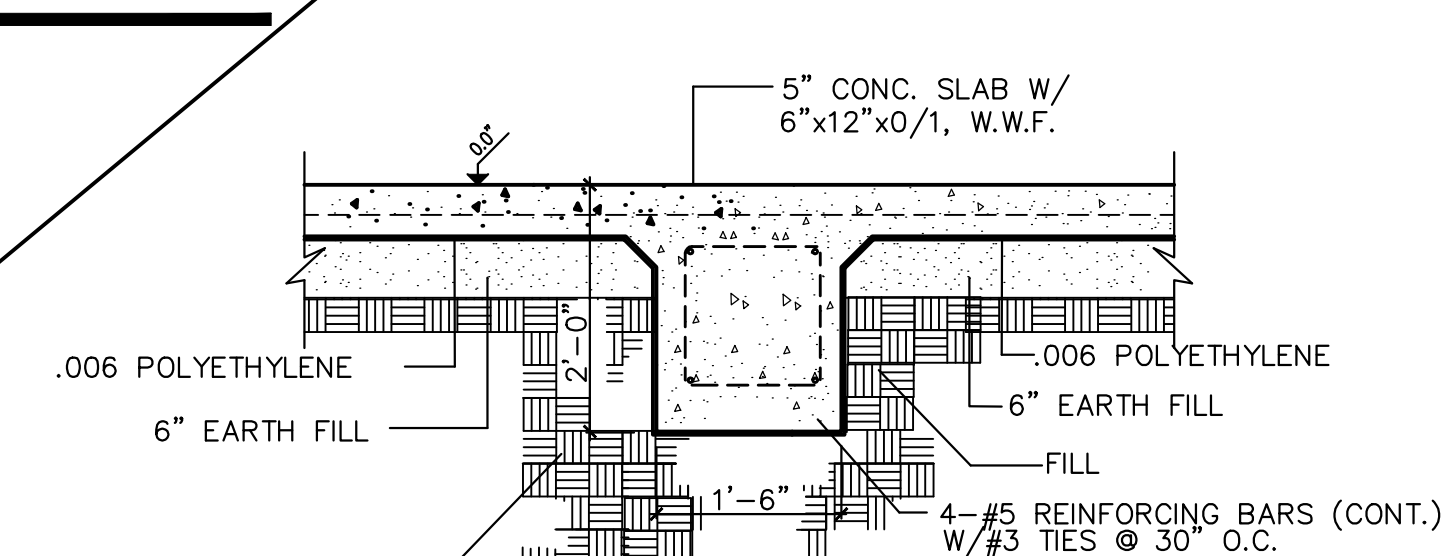
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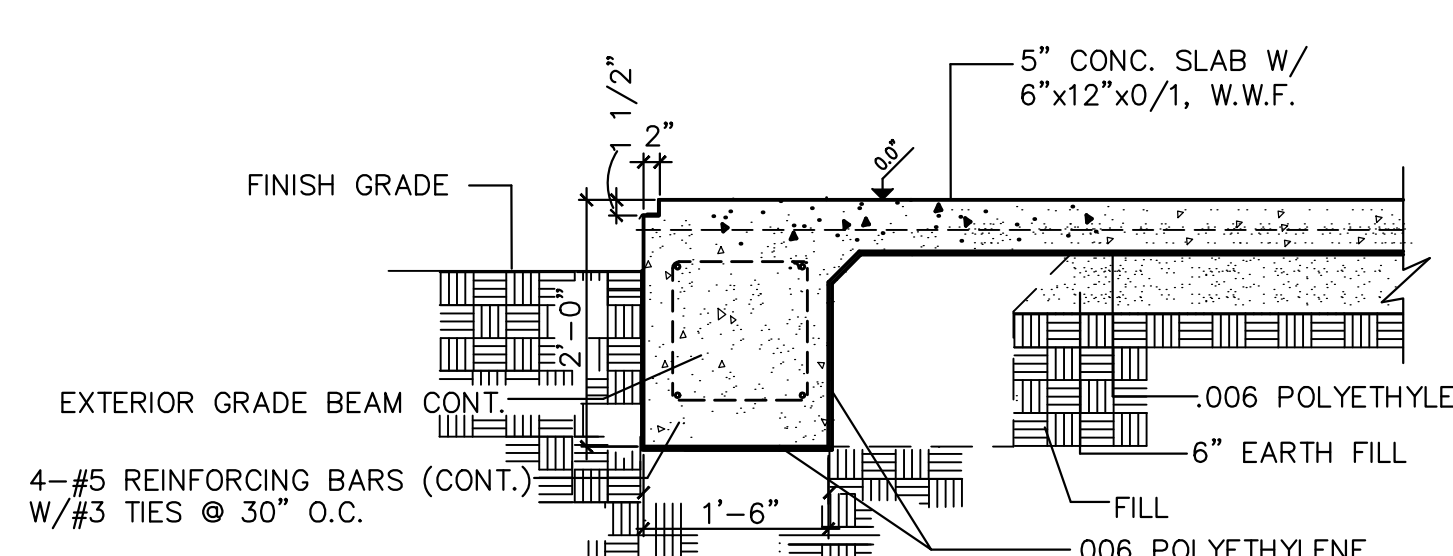
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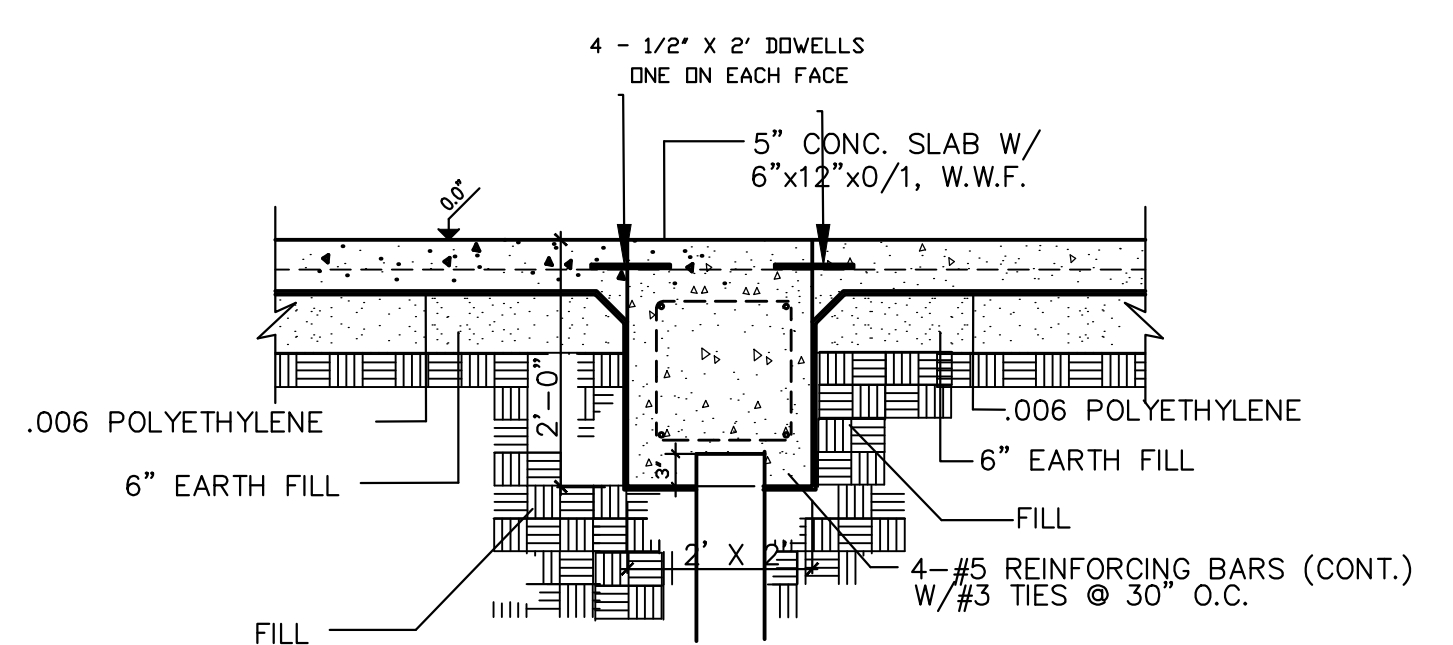
FOUNDATION PLAN  
 S-1.0 SCALE: 1/4"=1'-0"



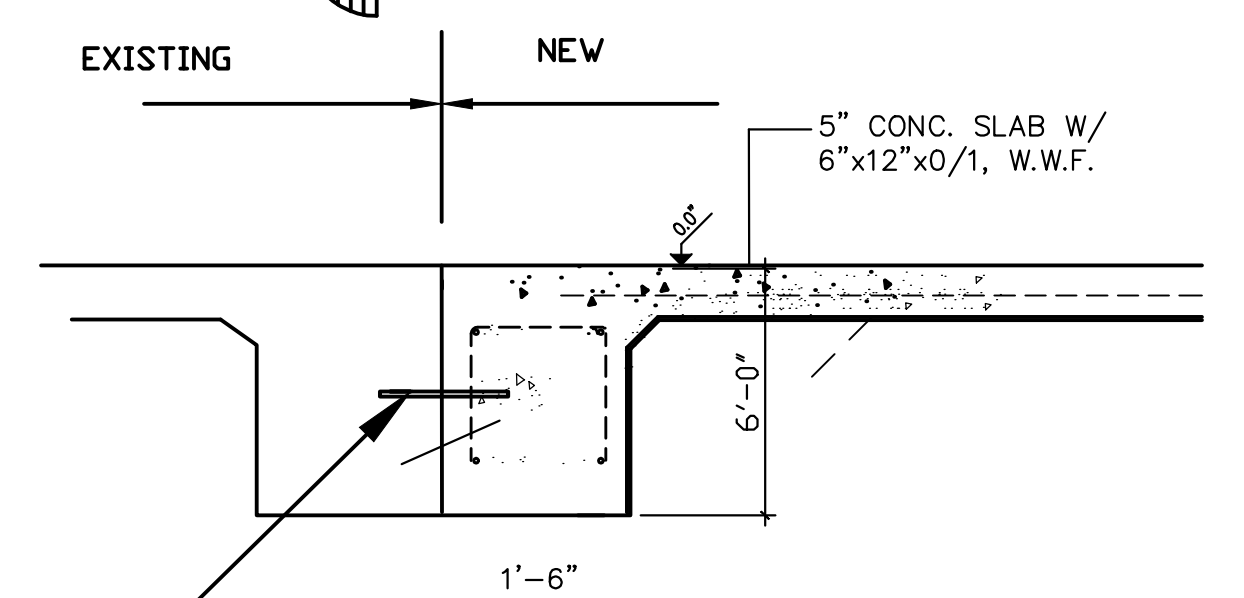
2 INTERIOR GRADE BEAM  
 S-1.0 SCALE: 3/4"=1'-0"



1 EXTERIOR GRADE BEAM  
 S-1.0 SCALE: 3/4"=1'-0"



4 NEW FOOTING DETAIL  
 S-1.0 SCALE: 3/4"=1'-0"



3 EXTERIOR GRADE BEAM  
 S-1.0 SCALE: 3/4"=1'-0"

BUILDING LINE  
 NEW 1/2" X 2" STEEL DOWELS @ 2' O.C.

2' X 2' X 2' DEEP NEW FOOTING FOR PIPE SUPPORT

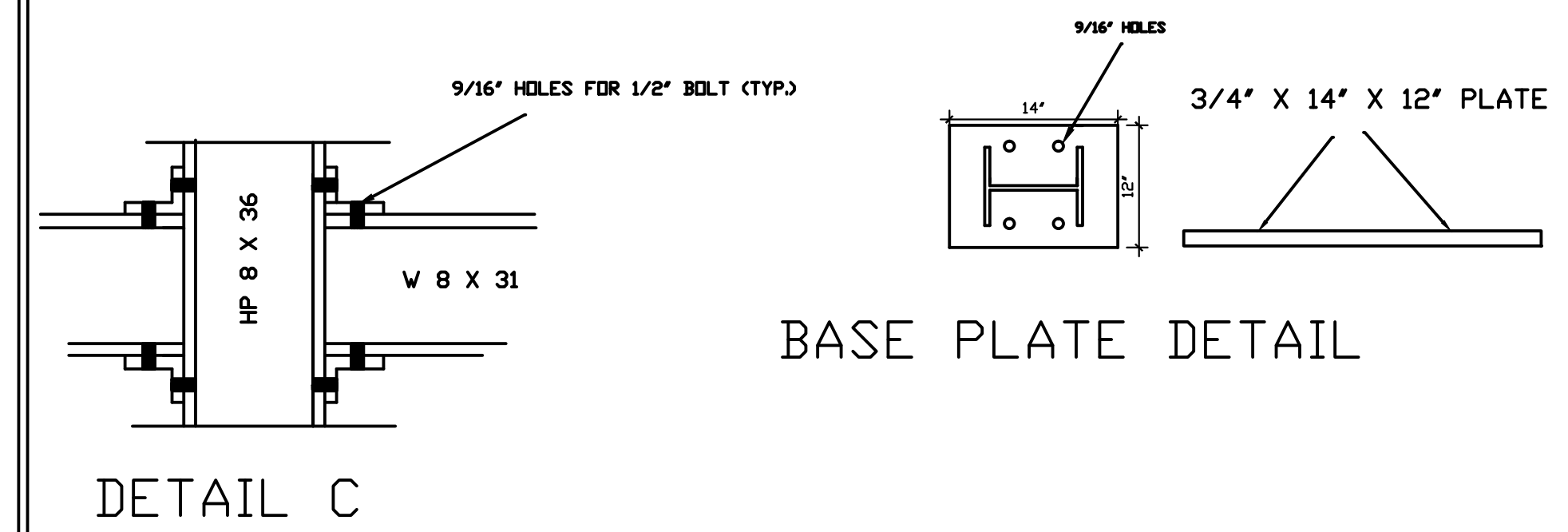
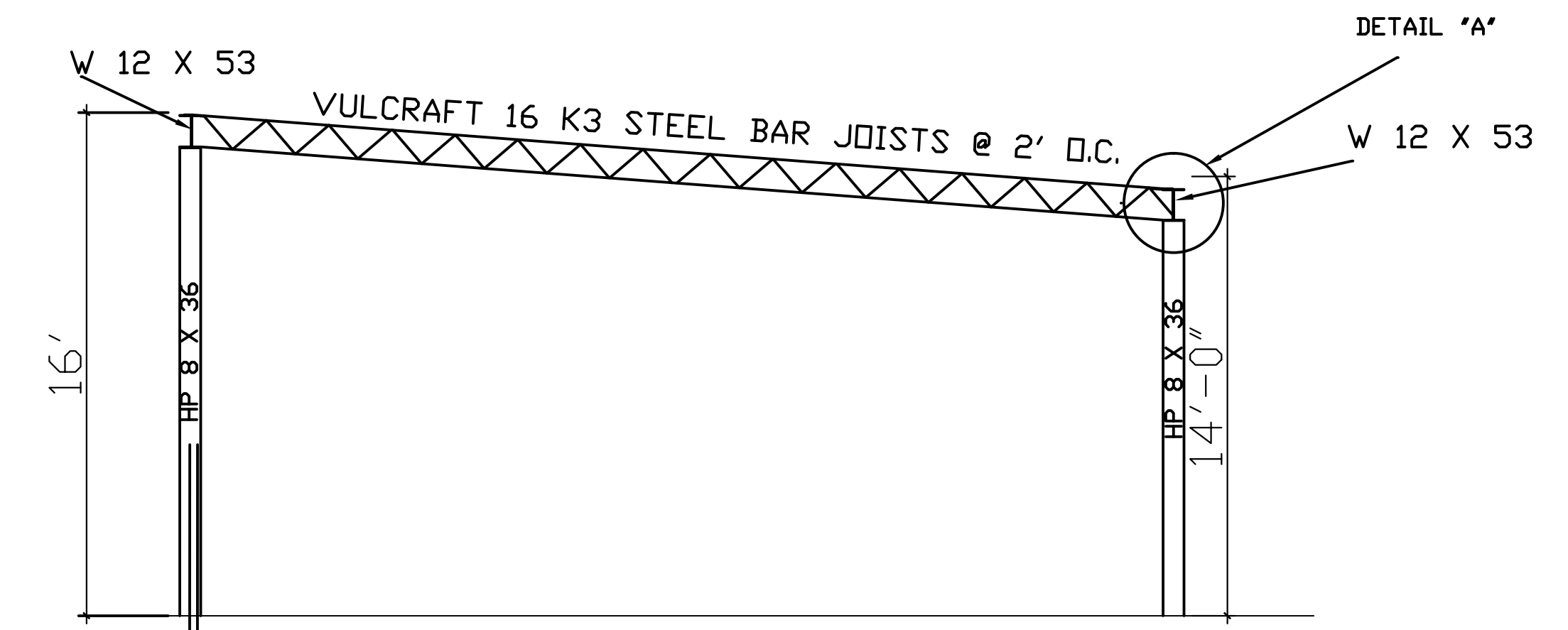
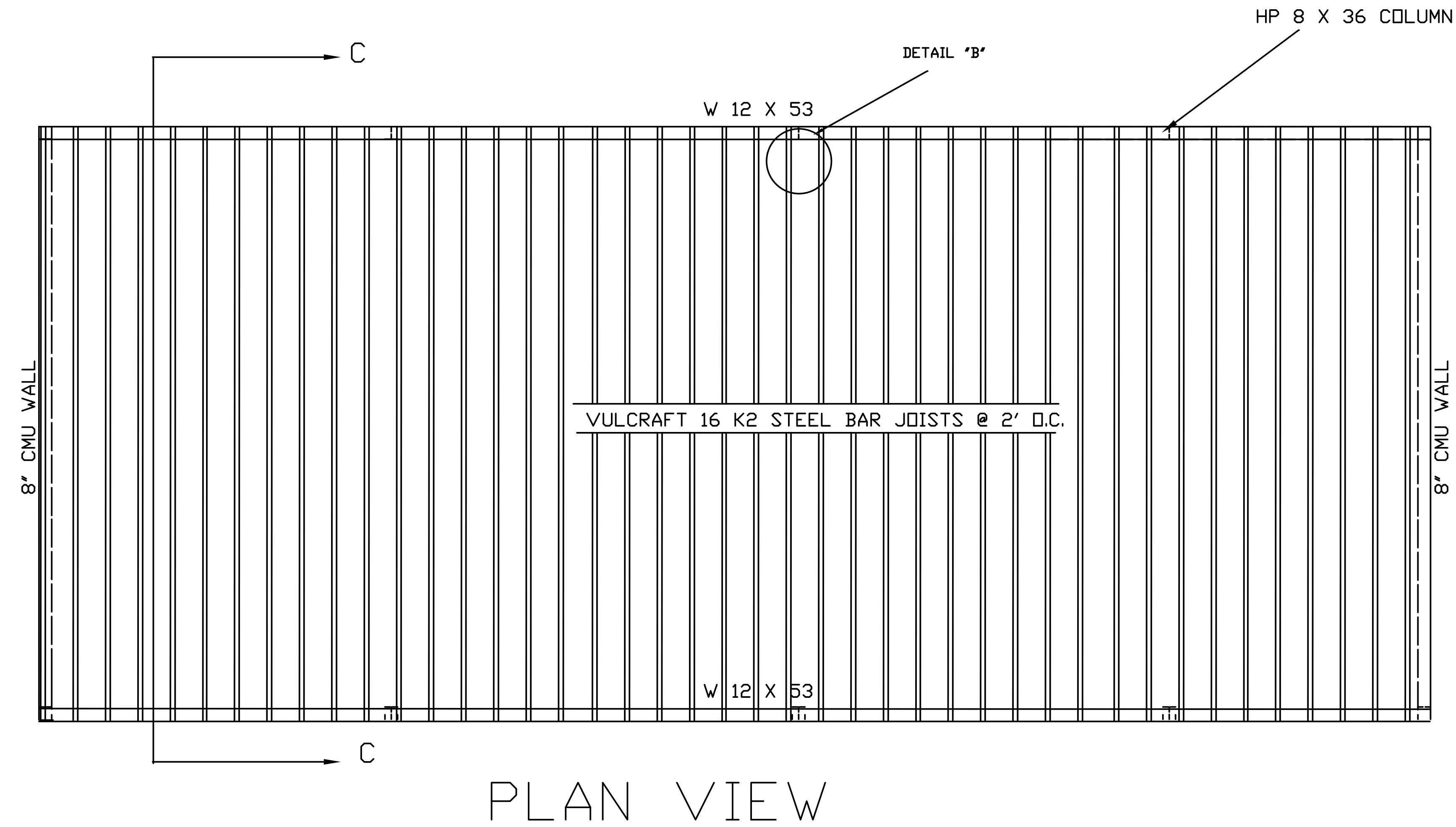
SAW CUT EXISTING SLAB TO INSTALL PILING

NEW FOUNDATION

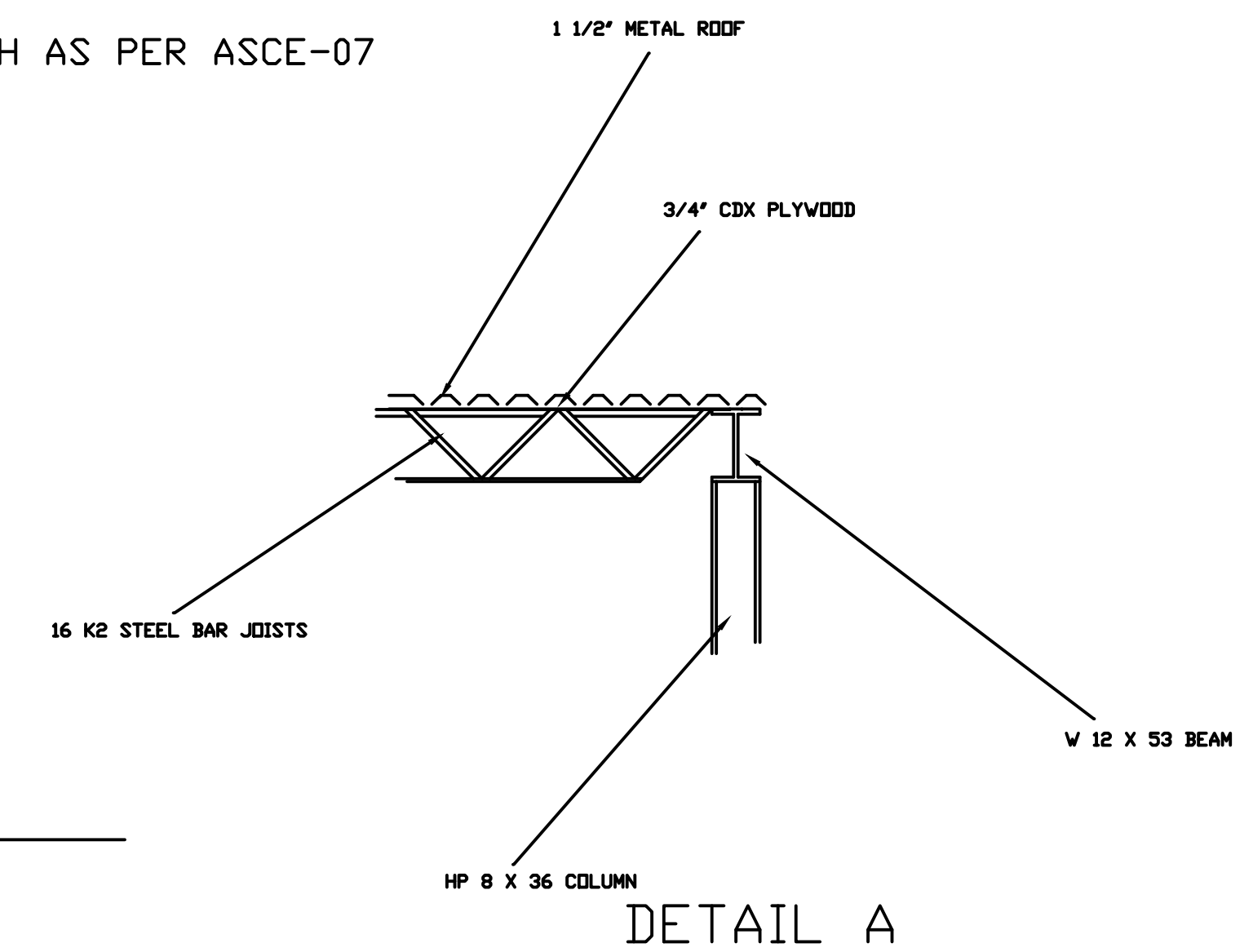
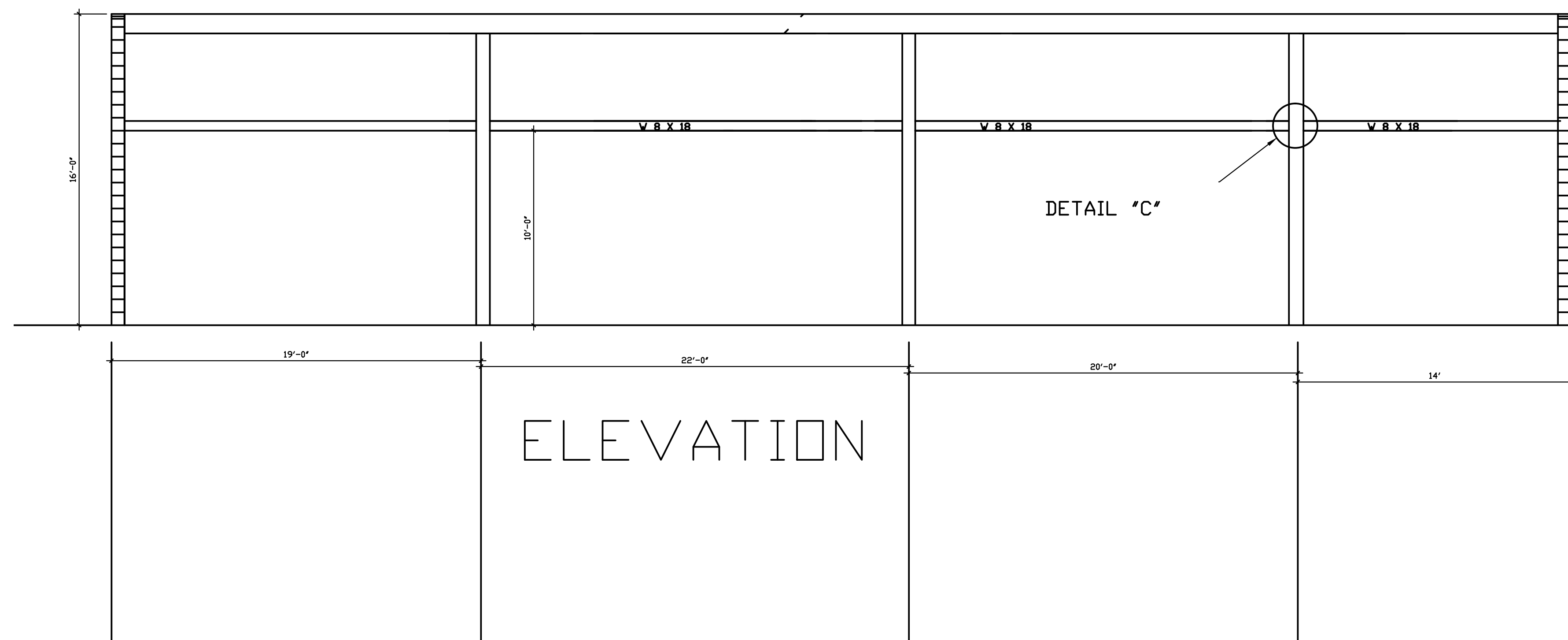


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REVISION 01-08-2020

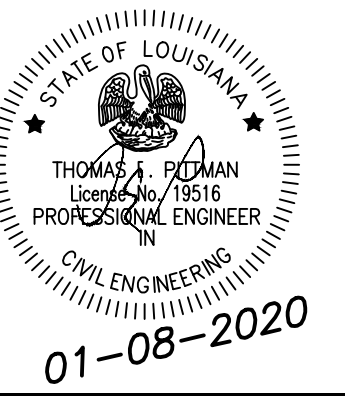


ALL WORK TO BE AS PER IBC - 2015  
 ALL WORK TO BE AS PER AISC  
 ALL STEEL TO BE A50  
 ALL BOLTS TO BE A325  
 WIND LOAD = 130 MPH AS PER ASCE-07



STEEL FRAMING PLAN

RENOVATION & ADDITION  
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 NEW ORLEANS, LA  
 ORLEANS PARISH



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 STEEL FRAMING  
 PLAN

Drawing No.

S-2

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