

<u>ZONING DEPARTMENT:</u>	CITY OF MASSILLON BUILDING DEPARTMENT ONE JAMES DUNCAN PLAZA MASSILLON, OH 44646 CONTACT: TRACEE WARD E: TWARD@MASSILLONOHIO.GOV T: 330.830.1724 x 393	<u>BUILDING DEPARTMENT:</u>	CITY OF MASSILLON BUILDING DEPARTMENT ONE JAMES DUNCAN PLAZA MASSILLON, OH 44646 CONTACT: FRANK SILLA E: FSILLA@MASSILLONOHIO.GOV T: 330.830.1724 x 299	<u>HEALTH DEPARTMENT:</u>	CITY OF MASSILLON HEALTH DEPARTMENT 111 TREMONT AVE. SW MASSILLON, OH 44647 CONTACT: BETHANY PERKOWSKI E: BPERKOWSKI@MASSILLONOHIO.GOV T: 330.830.1795
<u>FIRE DEPARTMENT:</u>	CITY OF MASSILLON CENTRAL FIRE STATION 233 ERIE ST. SOUTH MASSILLON, OH 44646 CONTACT: MATT HECK T: 330.833.1053 F: 330.833.1443	<u>WATER UTILITY:</u>	AQUA OHIO 762 W LANCASTER AVE. BRYN MAWR, PA 19010 CONTACT: DON SNYDER E: CUSTSERV@AQUAAMERICA.COM T: 330.832.5764 x 5066	<u>SEWER UTILITY:</u>	MASSILLON SEWER 151 LINCOLN WAY EAST MASSILLON, OH 44646 CONTACT: GREG MCCUE E: GCMCCUE@MASSILLONOHIO.GOV T: 330.830.1722
<u>NATURAL GAS UTILITY:</u>	DOMINION EAST OHIO PO BOX 5759 CLEVELAND, OH 44101 T: 888.221.5674	<u>ELECTRICAL UTILITY:</u>	FIRST ENERGY OHIO EDISON PO BOX 3687 AKRON, OH 44309 T: 800.633.4766	<u>TELEPHONE UTILITY:</u>	AT&T T: 866.790.9775

<u>LANDLORD:</u>	STEIN INVESTMENT GROUP 5607 GLENRIDGE DRIVE SUITE 200 ATLANTA, GA 30342 CONTACT: ADAM SAUER E: ADAM@STEININVEST.COM T: 404.932.2326	<u>ARCHITECT:</u>	RED ARCHITECTURE AND PLANNING 589 W NATIONWIDE BLVD SUITE B COLUMBUS, OH 43215 CONTACT: DENISE POLK E: DPOLK@REDARCHITECTS.COM T: 614.487.8770	<u>CIVIL ENGINEER:</u>	PEA GROUP 2430 ROCHESTER COURT SUITE 100 TROY, MI 48063 CONTACT: JASON SUTTON E: JSUTTON@PEAGROUP.COM T: 844.813.2949
<u>MECHANICAL ELECTRICAL PLUMBING ENGINEER:</u>	ANNEX ENGINEERING 589 W NATIONWIDE BLVD SUITE B COLUMBUS, OH 43215 CONTACT: SCOTT STAMPER E: SSTAMPER@ANNEXMEP.COM T: 614.487.8770	<u>STRUCTURAL ENGINEER:</u>	JEZERINAC GEERS AND ASSOCIATES 5640 FRANTZ ROAD DUBLIN, OH 43017 CONTACT: ALAIN KABBARA E: AKABBARA@JGAENG.COM T: 614.766.0066		

	EXTERIOR ELEVATION MARKER		COLUMN GRID LABEL		KITCHEN EQUIPMENT NUMBER
	INTERIOR ELEVATION MARKER	<b>Room name</b> 	ROOM NAME & NUMBER		WASHROOM ACCESSORIES NUMBER
	SECTION MARKER		REVISION NUMBER		WALL TAG
	SECTION / DETAIL		DOOR NUMBER		LEVEL TARGET
	VIEW LABEL		MISCELLANEOUS EQUIPMENT NUMBER		NORTH ARROW
			FURNITURE NUMBER		FINISH TAG

Q	CENTER LINE	FC	FOR CONSTRUCTION	NO	NUMBER	TLS	TENANT'S LIGHT/LAMP
(E)	EXISTING CONSTRUCTION	FRP	FIBERGLASS REINFORCED PANEL	OC	ON CENTER	TMB	TENANT'S MENU BOARD SUPPLIER
(N)	NEW CONSTRUCTION	FRT	FIRE RETARDANT-TREATED	OSB	ORIENTED STRAND BOARD	TMS	TENANT'S MILLWORK SUPPLIER
@	AT	GA	GAUGE	POS	POINT OF SALE	TP	TENANT'S PHONE SUPPLIER
Ø	DIAMETER OR ROUND	GALV	GALVANIZED	PREP	PREPARATION	TRS	TENANT'S RAILING SUPPLIER
		GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE		
		GYP	GYPSPUM			TS	TENANT'S SAFE SUPPLIER
AFF	ABOVE FINISH FLOOR			QT	QUARRY TILE	TSS	TENANT'S SMART SAFE SUPPLIER
ALUM	ALUMINUM	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	R	RADIUS	TSV	TENANT'S SIGN VENDOR
ARCH	ARCHITECT(URAL)	HS	HOOD SUPPLIER	RTU	ROOF TOP UNITS	TYP	TENANT'S UV SUPPLIER
ASS	ALARM SYSTEM SUPPLIER	HVAC	HEATING AND VENTILATING				TYPICAL
BD	BOARD			SIM	SIMILAR		
BLDG	BUILDING	ICP	INITIAL COST PROJECTION	SPS	SODA POP SUPPLIER	U.N.O.	UNLESS NOTED OTHERWISE
CMU	CONCRETE MASONRY UNIT	IFP	IN FOR PERMIT	SS	SUPPORT SIGNAGE	UPS	UNINTERRUPTED POWER SUPPLY
CO2	CO2 SUPPLIER	INT	INTERIOR	STR	STRUCTURE		
COZAS	CO2 ALARM SUPPLIER			T	TENANT		
CS	CHEMICAL SUPPLIER	KES	KITCHEN EQUIPMENT SUPPLIER	TAB	TENANT'S TEST & BALANCE VENDOR	VAR	VARIES
				TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL	VIF	VERIFY IN FIELD
DIM	DIMENSION(S)	MAX	MAXIMUM			W/	WITH
EA	EACH	MECH	MECHANICAL	TCC	TENANT'S CABLING CONTRACTOR	WA	WASHROOM ACCESSORIES
EL	ELEVATION (VERTICAL HEIGHT)	MFR	MANUFACTURER	TDC	TENANT'S DUCT CLEANER	WCS	TENANT'S WALK-IN COOLER SUPPLIER
ELEC	ELECTRIC(AL)	MISC	MISCELLANEOUS	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WHS	WATER HEATER SUPPLIER
ELEV	ELEVATION	MSS	MUSIC SYSTEMS SUPPLIER			WS	TENANT'S WINDOW SHADE SUPPLIER
EQ	EQUAL			THS	TENANT'S HARDWARE SUPPLIER		
EXT	EXTERIOR	N.I.C.	NOT IN CONTRACT				

[illegible]

A detailed architectural site plan of a building complex. The plan shows a central building with a large rectangular section and a curved section to the left. To the right of the building is a parking lot with several marked spaces. A curved driveway or path leads from the parking area towards the bottom right. The plan includes various landscaping elements like trees (represented by circles with crosses) and shrubs (represented by hatched areas). A north arrow is located at the top center. A scale bar at the bottom right indicates 1" = 60'-0". A key at the bottom left shows two circles: one labeled 'TRUE' and one labeled 'PLAN' with a '2' and 'G000' inside. The text 'AREA OF WORK' is written in large, bold, capital letters on the right side of the plan.

AREA OF WORK

1" = 60'-0"

TRUE PLAN

2 G000

LINCOLN WAY

KEY SITE PLAN

[illegible]

STORE NO.: 0000  
LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

G000

BUILDING CODE & ZONING DATA

1.

OCCUPANCY GROUP:  
OCCUPANCY SEPARATION REQUIRED:  
OCCUPANCY SEPARATION PROVIDED:

A-2  
N/A  
N/A
2.

TYPE OF CONSTRUCTION:

V-B
3.

USE GROUP:  
ALLOWABLE AREA:  
AREA INCREASE W/ SPRINKLERS:  
ACTUAL AREA:  
TENANT LEASE AREA:

A-2  
6,000 S.F.  
N/A  
2,325 S.F.  
2,325 S.F.
4.

ALLOWABLE NO. OF STORIES:  
ACTUAL NO. OF STORIES:  
ALLOWABLE BUILDING HEIGHT:  
ACTUAL BUILDING HEIGHT:

1  
1  
40'-0" MAXIMUM HEIGHT  
20'-8"
5.

MEANS OF EGRESS REQUIRED:  
MEANS OF EGRESS PROVIDED:

2  
3
6.

FIRE SPRINKLERS:

NONE

CODE AUTHORITIES

BUILDING CODE:	2017 OHIO BUILDING CODE
MECHANICAL CODE:	2017 OHIO MECHANICAL CODE
PLUMBING CODE:	2017 OHIO PLUMBING CODE
ENERGY CODE:	2012 INTERNATIONAL ENERGY CONSERVATION CODE
FUEL GAS CODE:	2015 INTERNATIONAL FUEL GAS CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRIC CODE
FIRE CODE:	2017 OHIO FIRE CODE
ACCESSIBILITY:	ANSI 117.1-2009

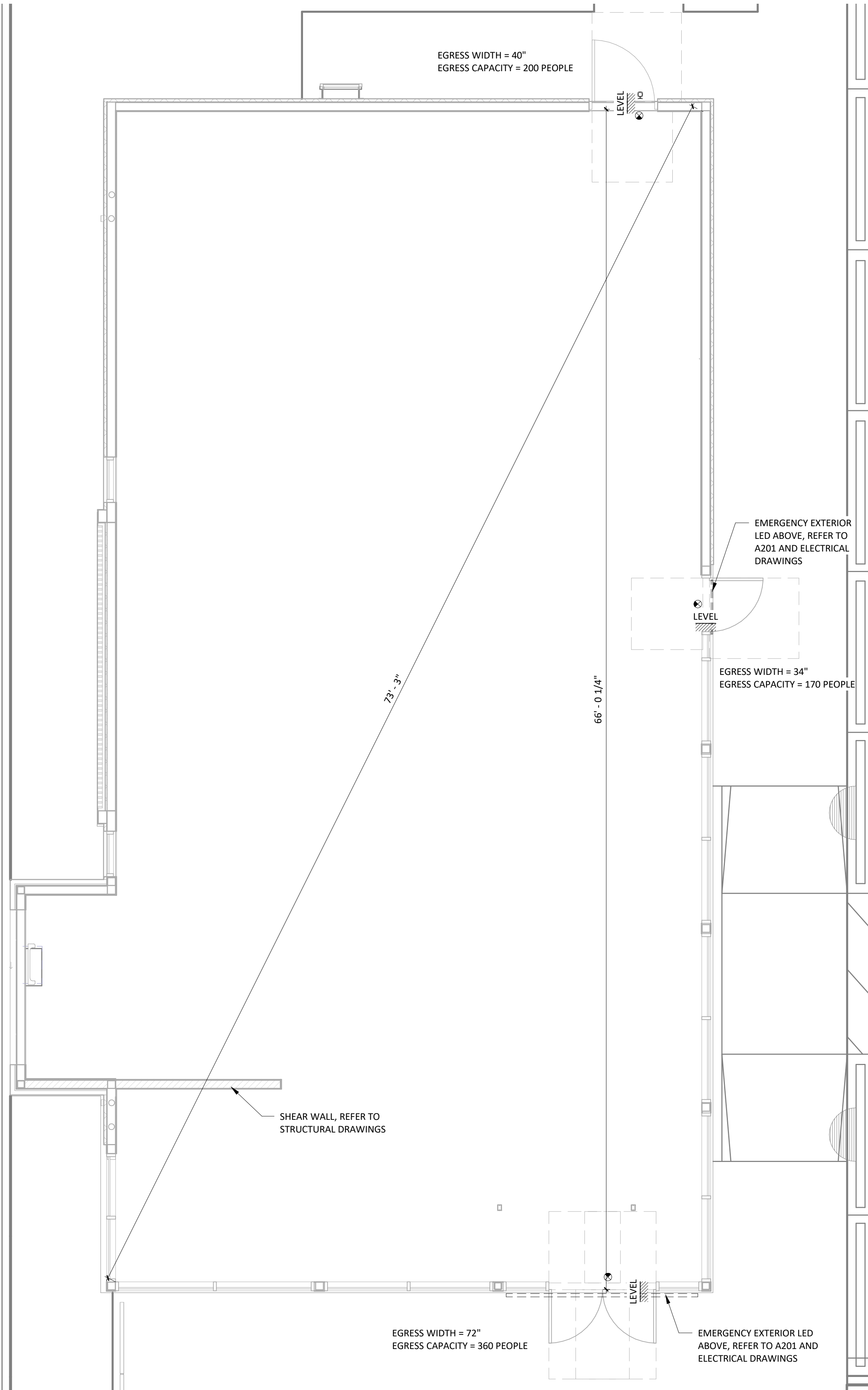
EGRESS SEPARATION NOTE

- OVERALL DISTANCE:

73'-3"
- REQUIRED SEPARATION:

36'-7 1/2" (NON-SPRINKLERED)
- PROVIDED SEPARATION:

66'-1/4"



 **LIFE SAFETY PLAN**  
1/4" = 1'-0"

GENERAL NOTES PER OBC 2017

- ☒ 44" REQUIRED EGRESS CORRIDOR WIDTH FOR OCCUPANCIES 50+.  
42" REQUIRED EGRESS AISLE WIDTH FOR OCCUPANCIES 50 AND OVER.  
36" REQUIRED EGRESS WIDTH FOR OCCUPANCIES UNDER 50.  
SECT. 1028.4.1
- ☒ NO DEAD END CORRIDORS OVER 20'-0"  
SECT. 1020.4
- ☒ MAXIMUM EGRESS TRAVEL DISTANCE TO AN EXIT IS 75'-0". MEASURED AS MOST REMOTE POINT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL TRAVEL TO THE EXIT.  
TABLE 1006.2.1
- ☒ DISTANCE BETWEEN TWO POINTS OF EGRESS (MEASURED IN A STRAIGHT LINE BETWEEN THE TWO) SHALL NOT BE LESS THAN 1/2 DIAGONAL OF SPACE BEING SERVED FOR EGRESS PATH.  
SECT. 1015.2.1
- ☐ IF FULLY SPRINKLERED DISTANCE BETWEEN TWO POINTS OF EGRESS CAN GO DOWN TO 1/3 OF DIAGONAL.
- ☒ MAXIMUM EXIT ACCESS TRAVEL DISTANCE 200' W/OUT SPRINKLER, 250' W/ SPRINKLER.  
TABLE 1017.2
- ☐ WHERE SEATING ROWS HAVE 14 OR FEWER SEATING, THE MINIMUM CLEAR AISLE ACCESSWAY WIDTH SHALL NOT BE LESS THAN 12 INCHES MEASURED AS THE CLEAR HORIZONATAL DISTANCE FROM THE BACK OF THE ROW AHEAD AND THE NEAREST PROJECTION OF THE ROW BEHIND.  
SECTION 1029.12.2
- ☐ FOR ROWS OF SEATING SERVED BY AISLES OR DOORWAYS AT BOTH ENDS, THERE SHALL NOT BE MORE THAN 100 SEATS PER ROW. THE MINIMUM CLEAR WIDTH OF 12 INCHES BETWEEN ROWS SHALL BE INCREASED BY 0.3 INCH FOR EVERY ADDITIONAL SEAT BEYOND 14 SEATS, BUT THE MINIMUM CLEAR WIDTH IS NOT REQUIRED TO EXCEED 22 INCHES  
SECTION 1029.12.2.1
- ☐ PER SECTION 1029.12.1, WHERE SEATING IS LOCATED AT A TABLE OR COUNTER AND IS ADJACENT TO AN AISLE OR AISLE ACCESSWAY, THE MEASUREMENT OF REQUIRED CLEAR WIDTH OF THE AISLE OR AISLE ACCESSWAY SHALL BE MADE TO A LINE 19 INCHES AWAY FROM AND PARALLEL TO THE EDGE OF THE TABLE OR COUNTER. EXCEPTION, WHERE TABLES OR COUNTERS ARE SERVED BY FIXED SEATS, THE WIDTH OF THE AISLE ACCESSWAY SHALL BE MEASURED FROM THE BACK OF THE SEAT
- ☐ PER SECTION, 1029.12.1.1, AISLE ACCESSWAYS SHALL PROVIDE A MINIMUM OF 12" OF WIDTH PLUS 1/2" OF WIDTH FOR EACH ADDITIONAL 1'-0", OR FRACTION THEREOF, BEYOND 12" OF AISLE ACCESSWAY LENGTH MEASURED FROM THE CENTER OF THE SEAT FARTHEST FROM AN AISLE.
- ☒ DOORS, WHEN FULLY OPENED SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF.  
SECT. 1005.7.1
- ☐ SPACE BETWEEN TWO DOORS IN A SERIES SHALL BE 48 INCHES MIN. PLUS WIDTH OF A DOOR SWINGING INTO SPACE.  
SECT. 1010.1.8

Consultant:

r

e

d

architecture + planning

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FOR  
CONSTRUCTION

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STORE NO.: 0000  
LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

Issue Record:	
08.19.21	PERMIT SET
11.08.21	CONSTRUCTION SET

Drawn:	Checked:
DP	KM

Project No.  
SIG001

Contents:  
PROJECT DATA & LIFE  
SAFETY PLAN

G001





2.1 Materials:	3.1 Installation:
<div><div>A. Resinous Flooring: Manufacturer: afflooring</div><div>1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627</div></div>	
2.1 Flooring System:	
<div><div>A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.</div><div>1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.</div><div>2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.</div><div>3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.</div></div>	
2.3 Product Substitutions:	
<div><div>A. Substitutions: No substitutions permitted.</div></div>	
2.4 Source Quality:	
<div><div>A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.</div></div>	
3.1 Manufacturer's Instructions:	
<div><div>A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.</div></div>	
3.2 Examination:	
<div><div>A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.</div><div>1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.</div></div>	
3.3 Preparation:	
<div><div>A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.</div></div>	
<div><div>B. Surface Preparation:</div><div>1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.</div><div>2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.</div><div>3. Prepare and clean control joints well and fill with an appropriate elastomeric.</div></div>	
3.4 Installation:	
<div><div>A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.</div><div>1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.</div><div>2. Priming: Apply afflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.</div><div>3. Finish Coat: Apply afflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.</div></div>	
<div><div>B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.</div></div>	
3.5 Protection:	
<div><div>A. Protection: Protect installed product and finish surfaces from damage during construction.</div></div>	

## NOT USED SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.
<div><div>A. Standards</div><div>1. American Society for Testing and Materials:<div><div>a. ASTM C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.</div><div>b. ASTM G23-81, Ultraviolet Light &amp; Water Spray</div><div>c. ASTM C805, Impact Strength</div></div></div><div>2. American Concrete Institute<div><div>a. ACI 302.1R-89, Guide for Concrete Floor and Slab Construction</div></div></div></div>
<div><div>B. Submittals: Provide the following:</div><div>1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.</div><div>2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.</div><div>3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.</div><div>4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.</div></div>
<div><div>C. Quality Assurance:</div><div>1. Installer Qualifications:<div><div>a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.</div><div>b. The special concrete finish manufacturer shall certify the applicator.</div><div>c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.</div></div></div><div>d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.</div><div>2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.</div></div>
<div><div>D. Project Conditions:</div><div>1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.</div><div>a. Concrete must have an average Floor Flatness rating of at least 40.</div><div>b. Concrete must have an average Floor Levelness rating of at least 40.</div><div>c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.</div><div>d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.</div><div>2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.</div><div>3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.</div><div>4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.</div></div>
2.1 Materials
<div><div>A. Hardening/ Sealing Agent</div><div>1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com</div><div>2. RetroGuard Stain Inhibitor</div><div>3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.</div><div>4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.</div><div>5. Coefficient of friction for Retroguard finish shall not be lower than .40.</div><div>6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com</div></div>

A. Surface Conditions
<div><div>1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.</div><div>2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-in-Place Concrete," and Project Conditions above.</div><div>3. Prior to application, verify that floor surfaces are free of construction latents.</div></div>
B. Application
<div><div>The following RetroPlate process will be followed as listed below:</div><div>A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:</div><div>1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.</div><div>2. Clean the floor using automatic scrubber or comparable.</div><div>3. Grind floor using 200 grit resin diamonds.</div><div>4. Clean the floor using automatic scrubber or comparable.</div><div>5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.</div><div>6. Grind floor using 400 grit resin diamonds.</div><div>7. Clean the floor using automatic scrubber or comparable.</div><div>8. Clean and remove any excess RetroPlate. Let the floor dry overnight.</div><div>9. Continue the polishing process using 800 grit resin diamonds.</div><div>10. Clean the floor using automatic scrubber or comparable.</div><div>11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.</div><div>12. Clean the floor using automatic scrubber or comparable.</div><div>13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.</div><div>14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.</div><div>15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.</div></div>
C. Start any of the floor finish applications in presence of manufacturer's technical representative.
D. Sealing, Hardening and Polishing of Concrete Surface
<div><div>1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.</div><div>2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.</div><div>3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.</div><div>4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.</div><div>5. Polish to a level 2 shine.</div></div>
E. Workmanship and Cleaning
<div><div>1. The premises shall be kept clean and free of debris at all times.</div><div>2. Remove spatter from adjoining surfaces, as necessary.</div><div>3. Repair damages to surface caused by cleaning operations.</div><div>4. Remove debris from jobsite<div><div>a. Dispose of materials in separate, closed containers in accordance with local regulations.</div></div></div></div>

### DIVISION 4 - MASONRY

#### SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.
<div><div>A. Standards: Materials and construction shall conform to the following:</div><div>1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."</div><div>2. NCMA "TEK Bulletins."</div><div>3. BIA "Technical Notes on Brick Construction."</div></div>
2.1 Materials:
<div><div>A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.</div><div>1. ASTM C90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.</div><div>2. Provide special shapes where required.</div><div>3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.<div><div>a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix".</div></div></div></div>
<div><div>B. Face Brick:</div><div>1. Manufacturer:<div><div>a. Endicott, (402) 729-3315, www.endicott.com (Iron Spot Brick), or as approved by architect</div><div>b. Belden Brick Company, (330) 451-2031, www.beldenbrick.com (White Brick), or as approved by architect</div></div></div><div>2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.</div><div>3. Size: Modular size, laying three courses to 8" vertically.</div><div>4. Color: "Alaska White Velour" or "Maganese Ironspot, Velour" as noted on Exterior Elevations</div><div>5. Provide special shapes where required.</div></div>
<div><div>C. Mortar Materials:</div><div>1. Portland cement: ASTM C150, Type I or III, natural color.</div><div>2. Masonry cement: ASTM C91, Type indicated, natural color.</div><div>3. Aggregate: ASTM C144, clean masonry sand.</div><div>4. Water: Clean, fresh and potable.</div><div>5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.<div><div>a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".</div></div></div></div>
<div><div>D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.</div><div>1. Face brick: Type N mortar.</div><div>2. Dye:<div><div>a. SGS #60A "White" by Solomon Grind Services (White)</div><div>b. SM #750 "Silverstone" by Spec Mix (Iron Spot)</div></div></div></div>
<div><div>E. Reinforced Unit Masonry Grout Mixes</div><div>1. Concrete fill: ASTM C94 3,000 psi concrete.</div></div>
<div><div>F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized</div><div>1. Manufacturer: Hohman &amp; Barnard, INC.</div><div>2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.<div><div>a. Single Wythe masonry: Standard single s gage side and cross rods. H&amp;B #220 Ladder-Mesh.</div></div></div><div>3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.<div><div>a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.</div><div>b. CMU to structural steel: H&amp;B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&amp;B #359 Weld-on Ties (Anchor Rods).</div></div></div><div>4. Masonry Veneer To Wood Framing: H&amp;B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.<div><div>a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.</div></div></div><div>5. Seismic Masonry Veneer to Wood Framing: (When Required) H&amp;B Seismic Plate Pintle HB-213S with HB-213 (T-LoK Tie)<div><div>a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.</div></div></div></div>
<div><div>G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.</div><div>1. Termination Mastic: W. R. Grace "Bituthene Mastic."</div><div>2. Primer: W.R. Grace "Bituthene P-300 Primer."</div><div>3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.</div></div>

H. Accessories
<div><div>1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.</div><div>2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.</div><div>3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.</div><div>4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.</div><div>5. Cleaning agents:<div><div>a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."</div><div>b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."</div></div></div><div>6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.</div></div>
3.1 Installation
<div><div>A. Preparation</div><div>1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.</div><div>2. Lay concrete masonry units dry.</div><div>3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed</div><div>4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.</div></div>
<div><div>B. Installation - General:</div><div>1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.</div><div>2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.</div><div>3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.</div></div>
<div><div>C. Laying Masonry</div><div>1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.</div><div>2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.</div><div>3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.</div><div>4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.</div><div>5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.</div><div>6. Compress and cut joints flush for masonry walls below grade or covered by other materials.</div><div>7. Tool joints in all exposed masonry work to a concave joint.</div><div>8. Provide interlocking masonry bond in each course at corners and intersecting walls.</div><div>9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.<div><div>a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.</div><div>b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.</div><div>c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.</div><div>d. Install anchors, plates and related work built into masonry work.</div><div>e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.</div></div></div><div>10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:<div><div>a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.</div><div>b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.</div><div>c. Fully embed side rods in mortar.</div></div></div><div>11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.</div><div>12. Provide vertical expansion, control and isolation joints in masonry where indicated.<div><div>a. When not indicated, at maximum 30'-0" on center.</div><div>b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.</div><div>c. Joint sealant color shall match masonry materials sealed.</div></div></div><div>13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.</div><div>14. Flashing and weeps:<div><div>a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.</div><div>b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.</div><div>c. Flexible Membrane Flashing:<div><div>1) Install membrane flashing in accordance with manufacturer's installation instructions.</div><div>2) Fully adhere flashing to substrate.</div><div>3) Lap flashing joints a minimum of 6", seal and roll with a hand roller.</div><div>4) Trim bottom edge 1/4" back from exposed face of masonry.</div><div>5) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.</div></div></div></div><div>15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.</div><div>16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.</div></div></div>
<div><div>D. Masonry Veneer Walls:</div><div>1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.</div><div>2. Space ties 16" on center vertically and horizontally.</div><div>3. Maintain veneer wall cavity free of mortar droppings during masonry installation.</div></div>
<div><div>E. Parging:</div><div>1. Dampen masonry walls prior to parging.</div><div>2. Scarify each parging coat to ensure full bond to subsequent coat.</div><div>3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).</div><div>4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).</div></div>
<div><div>F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:</div><div>1. Draw ACMU from more than one pallet at a time during installation.</div></div>
<div><div>G. Reinforced Concrete Masonry</div><div>1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.</div><div>a. Comply with drawing details for reinforcing steel size and spacing.</div><div>2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.</div></div>
<div><div>H. Repair, Pointing and Cleaning</div><div>1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.</div><div>2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.</div><div>3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.</div><div>4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.</div><div>5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.</div><div>6. Muriatic acid cleaning of masonry not permitted.</div></div>
<div><div>I. Architectural Concrete Masonry:</div><div>1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.</div><div>2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.</div><div>3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.</div></div>

### DIVISION 5 - METALS

#### SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.
<div><div>A. Standards: Materials and construction shall conform to following:</div><div>1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."</div><div>2. AISC "Code of Standard Practice."</div><div>3. AWS "Structural Welding Code, D1.1-Steel."</div></div>
2.1 Materials:
<div><div>A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.</div></div>
<div><div>B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.</div></div>
<div><div>C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.</div></div>
<div><div>D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.</div></div>
<div><div>E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.</div></div>
<div><div>F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.</div></div>
<div><div>G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.</div><div>1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.</div><div>2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.</div><div>3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.</div></div>
3.1 Installation:
<div><div>A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".<div><div>1. Plumb, level and align base plates for structural members with steel shims.</div><div>2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.</div></div></div><div>B. Testing: When required, comply with drawings testing requirements.</div></div>
SECTION 05400 - COLD-FORMED METAL FRAMING
1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.
<div><div>A. Standards: Materials and construction shall conform to following:</div><div>1. AISI S602.2-01 "Design of Cold-Formed Steel Structural Members."</div><div>2. AWS "Structural Welding Codes, D1.3-Sheet Steel."</div></div>
2.1 Materials:
<div><div>A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.</div></div>
<div><div>B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.</div><div>1. Components: Provide sizes and shapes indicated.</div><div>2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.</div></div>
<div><div>C. Fabrication:</div><div>1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.<div><div>a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.</div></div></div><div>2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.</div><div>3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.</div><div>4. Saw cut field cut framing. Torch cutting not acceptable.</div></div>
3.1 Installation:
<div><div>A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.</div></div>
<div><div>B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.</div></div>
SECTION 05610 - PATIO RAILINGS
1.1 General: Provide metal fabrications as shown and specified.
<div><div>A. Submit shop drawings for the following:</div><div>1. Patio Rail systems.<div><div>a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.</div><div>b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.</div></div></div></div>
2.1 Materials
<div><div>A. Materials compliance: When requested, submit acceptable data documenting materials compliance.</div></div>
<div><div>B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.</div></div>
<div><div>C. Stainless Steel:</div><div>1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.</div></div>
<div><div>D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.</div><div>1. Wall: Bright reflective finish.</div><div>2. Floor: Mill finish.</div></div>
<div><div>E. Patio Railing System</div><div>1. Submit shop drawings including the following:<div><div>a. Show thickness, size, construction and welding, as well as assembly drawings.</div><div>b. Show true profiles, connections of all typical joint configurations</div><div>c. Show installation (fastening) and proposed grout (non-gypsum base)</div><div>d. Show gate detail and gate hardware manufacturer and model number</div><div>e. Patio railing plan, with dimensions and panel assembly locations.</div></div></div><div>2. Fabrication<div><div>a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.</div><div>b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.</div><div>c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.</div><div>d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.</div><div>e. All corners and joints shall be seal welded and outside joints ground smooth.</div><div>f. All welding spatter shall be removed before sand blasting.</div></div></div><div>3. Finish<div><div>a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.</div></div></div><div>4. Exposed Fasteners:<div><div>1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.</div><div>2. Patio Railing:<div><div>a. All fasteners shall be stainless steel and powder coated to match railing sections.</div><div>b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers</div><div>c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.</div></div></div></div></div></div>
<div><div>G. Shop paint primer: Refer to Section 09900 - Paints and Coatings</div></div>





DIVISION 8 - DOORS AND WINDOWS	1.5 Submittals:		2.4 Glazing Systems:	2.12 Formed Metal Fabrications - Sheet Metal
	A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.		A. Glazing: As specified in Section 08800 - Glazing.	A. Closures, Trim, and Fill Panels: 1. Form Closures from type and thickness of metal indicated. 2. Conceal fasteners when possible. 3. Drill and tap holes for securing to other surfaces. 4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces. 5. Miter or cope at corners and reinforce with bent metal plate. Form high joints.
SECTION 08110 - STEEL DOORS AND FRAMES	B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.		B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.	2.13 Materials
	C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.		C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.	A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units. B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material. C. Anchors, Clips, and Accessories: Use one of the following: 1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666. 2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M. 3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A123/A123M Coating Grade 35 4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5. 5. Exterior Locations or in contact with Stainless Steel: a. Bolts: Stainless steel; ASTM F593, Group 1 (A1) b. Nuts: Stainless steel; ASTM F594. 6. Structural Anchors: Provide anchors where work is indicated to comply with design loads. a. Type: Provide chemical or torque controlled expansion anchors. b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete. 7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise. D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined. E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.
1.1 General: Tenant to provide steel doors and frames as shown and specified.	1.6 Quality Assurance		E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows: 1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated. a. Color: Black 2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use. a. Color: Matching structural sealant.	
A. Standards: Materials and construction shall conform to the following: 1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames." 2. ANSI A250.11-01 "Erection Instructions for Steel Frames." 3. SDI 122-99 " Installation for Standard Steel doors and Frames.	A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope		2.5 Entrance Door Systems:	2.14 Finishes
B. Manufacturer: A member of the Steel Door Institute (SDI).	B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.		A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.	A. Finishes, General: Comply with NAAMM AMP 500-06 1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet. 2. Protect mechanical finishes on exposed surfaces from damage. 3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise. 4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
2.1 Materials:	C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.		2.6 Accessory Materials:	B. Galvanized Steel Finishes: 1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M 2. Color: As shown on the drawings. 3. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1 4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.
A. Steel Doors: 1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.	D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements. 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.		A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers	3.1 Examination:
2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.	1.7 Project Conditions:		2.7 Storefront Framing Fabrication:	A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation. 1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris. 2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening. 3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints. 4. Proceed with installation only after unsatisfactory conditions have been corrected.
B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel. 1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated. 2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.	1.8 Warranty		A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics: 1. Profiles that are sharp, straight, and free of defects or deformations. 2. Accurately fit joints; make joints flush, hairline and weatherproof. 3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior. 4. Physical and thermal isolation of glazing from framing members. 5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances. 6. Provisions for field replacement of glazing. 7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.	3.2 Installation:
C. Door and frame fabrication: 1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers. 2. Punch frames and factory install rubber door silencers. 3. Provide minimum three anchors of suitable design for each jamb. 4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.	A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty. 1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.		B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.	A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.
D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.	2.1 Manufacturers:		C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.	B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
3.1 Installation:	A. Manufacturer: Kawneer Company Inc., Contact: Cheryl Wilkerson, Phone: 317-771-9263; email:cheryl.wilkerson@arconic.com		D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.	C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.
A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.	1. Basis-of-Design Product Storefront Framing: a. Trifab 601T (thermal) Storefront System i. 2" x 6" System Dimensions ii. Glass: Exterior (Center-Set) b. Trifab 451T (thermal) Storefront System i. 2" x 4-1/2" System Dimensions ii. Glass: Exterior (Front-Set)		E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.	D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.
B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.	2. Basis-of-Design Product Storefront Entrances: a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10" b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick. c. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer. d. Provide adjustable glass jacks to help center the glass in the door opening.		2.8 Storefront Entrance Door Fabrication:	E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS	3. Basis-of-Design Product Feature Exterior Slat Wall: a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM. 1. Architechural Fabrication		A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.	F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.
1.1 General: Provide aluminum entrances and storefronts as shown and specified.	B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.		B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing. 1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in-type with EPDM glazing gaskets reinforced with non-stretchable cord. 2. Accurately fit and secure joints and corners. Make joints hairline in appearance. 3. Prepare components with internal reinforcement for door hardware. 4. Arrange fasteners and attachments to conceal from view.	3.3 Adjusting, Cleaning, and Protection:
1.2 Related Documents:	1. YKK a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set		C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.	A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.	2. Oldcastle a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set		2.9 Aluminum Finishes:	B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
B. Standards: Materials and construction shall conform to the following: 1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."	3. US Aluminum a. Series FT601 - 2" x 6" nominal dimension; Thermal b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set		A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.	C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
1.3 Summary:	4. EFCO a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal		B. Factory Finishing: 1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings) 2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM a. YKK "Charcoal" UC99477, Superior Painted Finishes b. All others to be verified with samples and submittals to Arch PM	
A. Section Includes: 1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units. a. Types of Kawneer Aluminum Storefront include: (1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set (2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set	2. Materials:		2.10 Brake Metal Trim:	
B. Kawneer Aluminum Entrances, glass and glazing, and components a. Types of Kawneer Aluminum Entrances include: (1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.	A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.		A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories. 1. Show actual field measurements on shop drawings. 2. Differentiate between shop and field fabrication. 3. Indicate substrates and adjacent work with which the fabrications must be coordinated. 4. Include large-scale details of anchorages and connecting elements. 5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)	
C. Kawneer Tube for Feature Exterior Slat Wall	B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.		2.11 Formed Metal Fabrications - General:	
4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.	C. Aluminum Storefront Entrance Extrusions: Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.		A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.	
a. YKK (1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal (2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set	D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.		B. Coordination: Match dimensions and attachment of formed metal items to adjacent construction. Produce integrated assemblies. Closely fit joints; align edges and flat surfaces unless indicated otherwise.	
b. Oldcastle (1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal (2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set	E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.		C. Forming: Profiles indicated. Maximize lengths. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain separation at bends.	
c. US Aluminum (1.) Series FT601 - 2" x 6" nominal dimension; Thermal (2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set	F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.		D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.	
d. EFCO (1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal (2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal	G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.		E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.	
e. Wausau (1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal (2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal	H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.		F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.	
1.4 Performance Requirements:	2.3 Storefront Framing System:		G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition. 1. Ease exposed edges to small uniform radius. 2. Welded joints. a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M. b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M 3. Brass/Bronze Brazed Joints: a. Perform torch brazing in accordance with AWS C3.4M/C3.4 b. Perform induction brazing in accordance with AWS C3.5M/C3.5 c. Perform resistance brazing in accordance with AWS C3.9M/C3.9	
A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction; 1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings. a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000 b. Importance Factor: (1.00) c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000	A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505. 1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.		H. Performance requirements; 1. Thermal Movements: a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects. b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces. 2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.	
B. Storefront System Performance Requirements: 1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.	B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.			2.1 Materials:
2. Air Infiltration: a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cm/ft. sq. at a static air pressure differential of 6.24 psf. b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 PA) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cm per square foot.	C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.			A. Acceptable Manufacturer: Quikserv; Toll Free: 1.800.388.8307; Email: <a href="mailto:sales@quikserv.com">sales@quikserv.com</a> ; Web: <a href="https://www.quikserv.com/">https://www.quikserv.com/</a> ;
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.	D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.			B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of 1/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.	E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.			
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than: a. Glass to Exterior - 0.47 (low-e)	F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.			
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than: a. Glass to Exterior - 70 frame and 69 glass (low-e)				
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than: a. Glass to Exterior - 38 (STC) and 31 (OITC)				

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MASS







## GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.

Consultant:

**r e d**

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Issue Record:	
08.19.21	PERMIT SET
11.08.21	CONSTRUCTION SET


Revisions:	
1	11.08.21 FOR CONSTRUCTION
2	11.30.21 SITE PLAN UPDATE

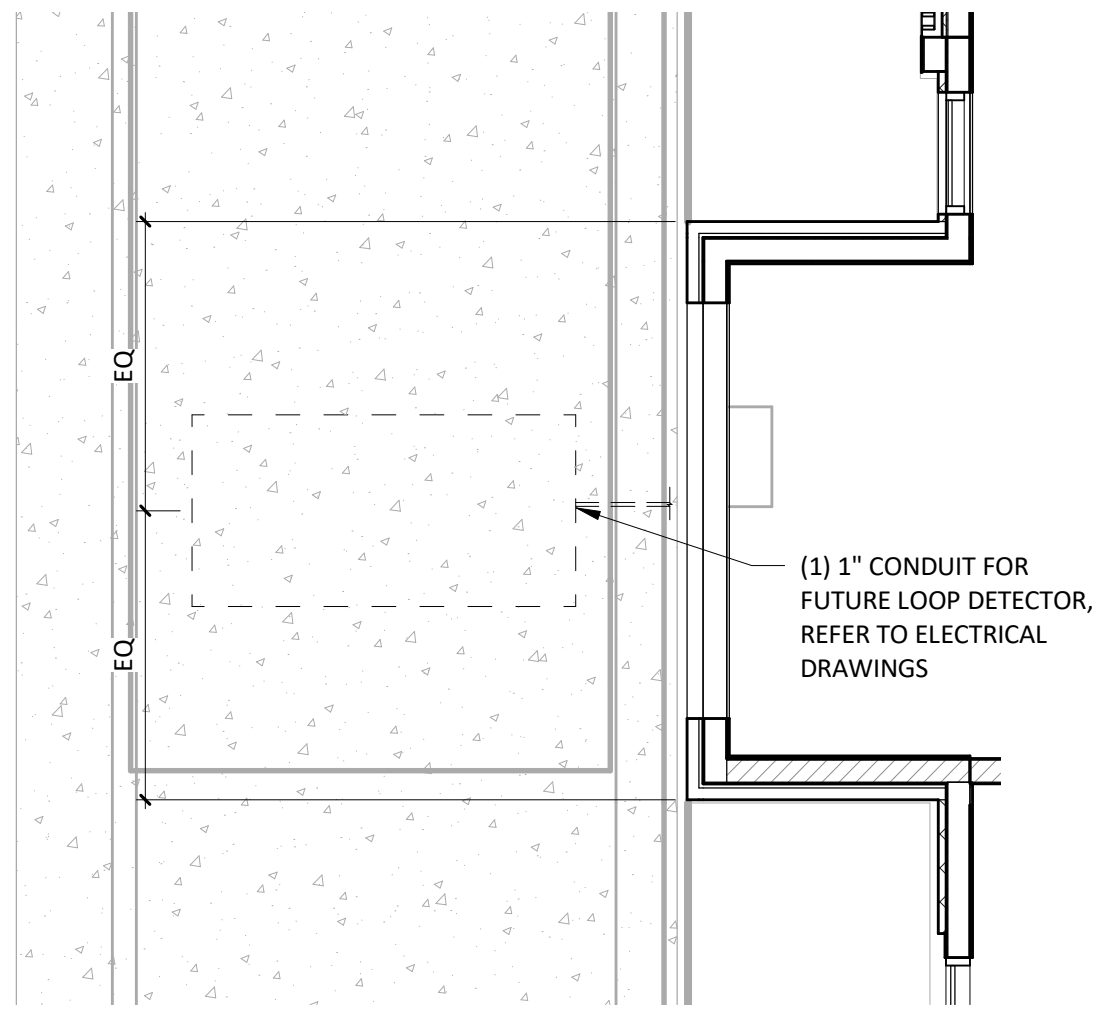




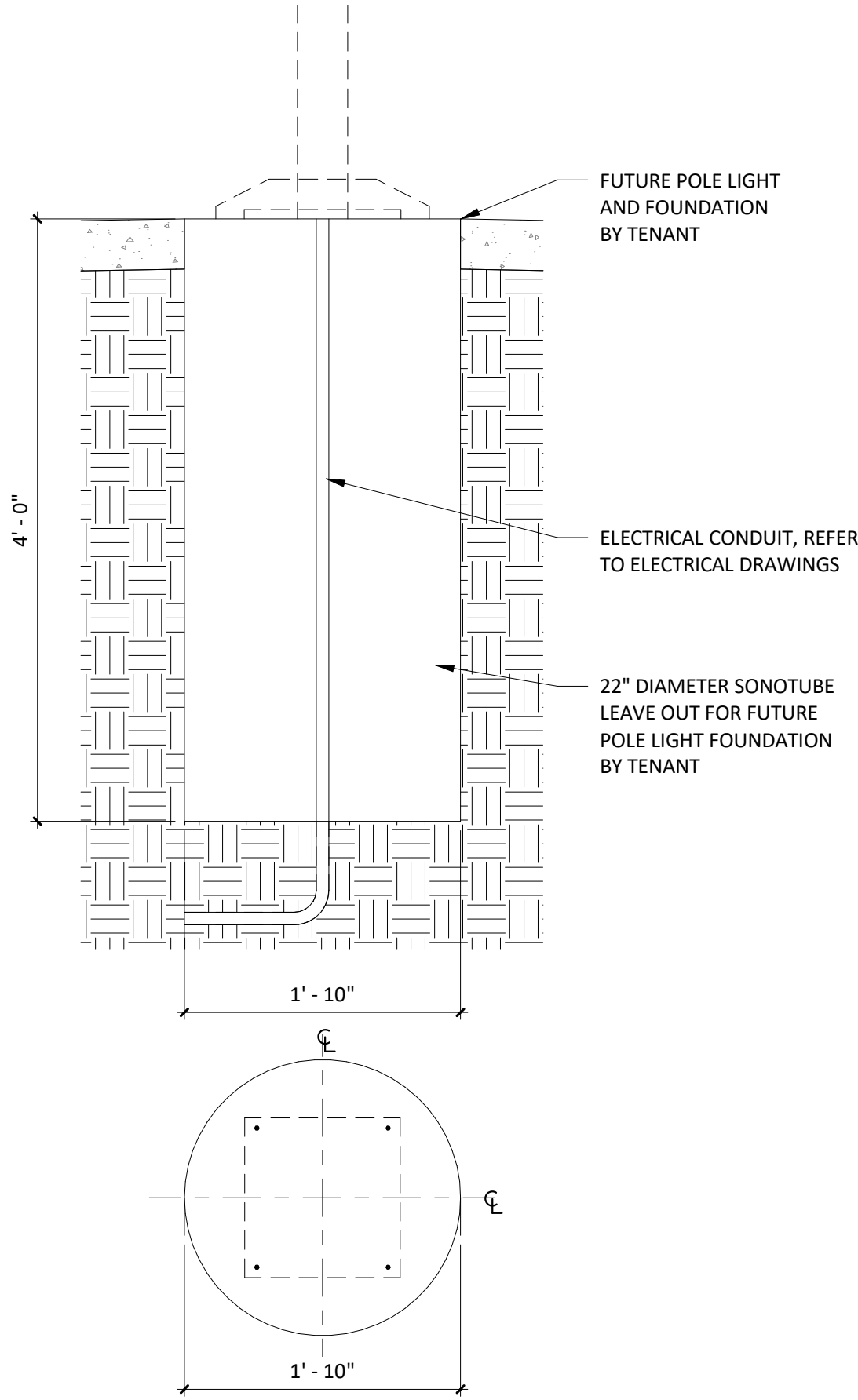




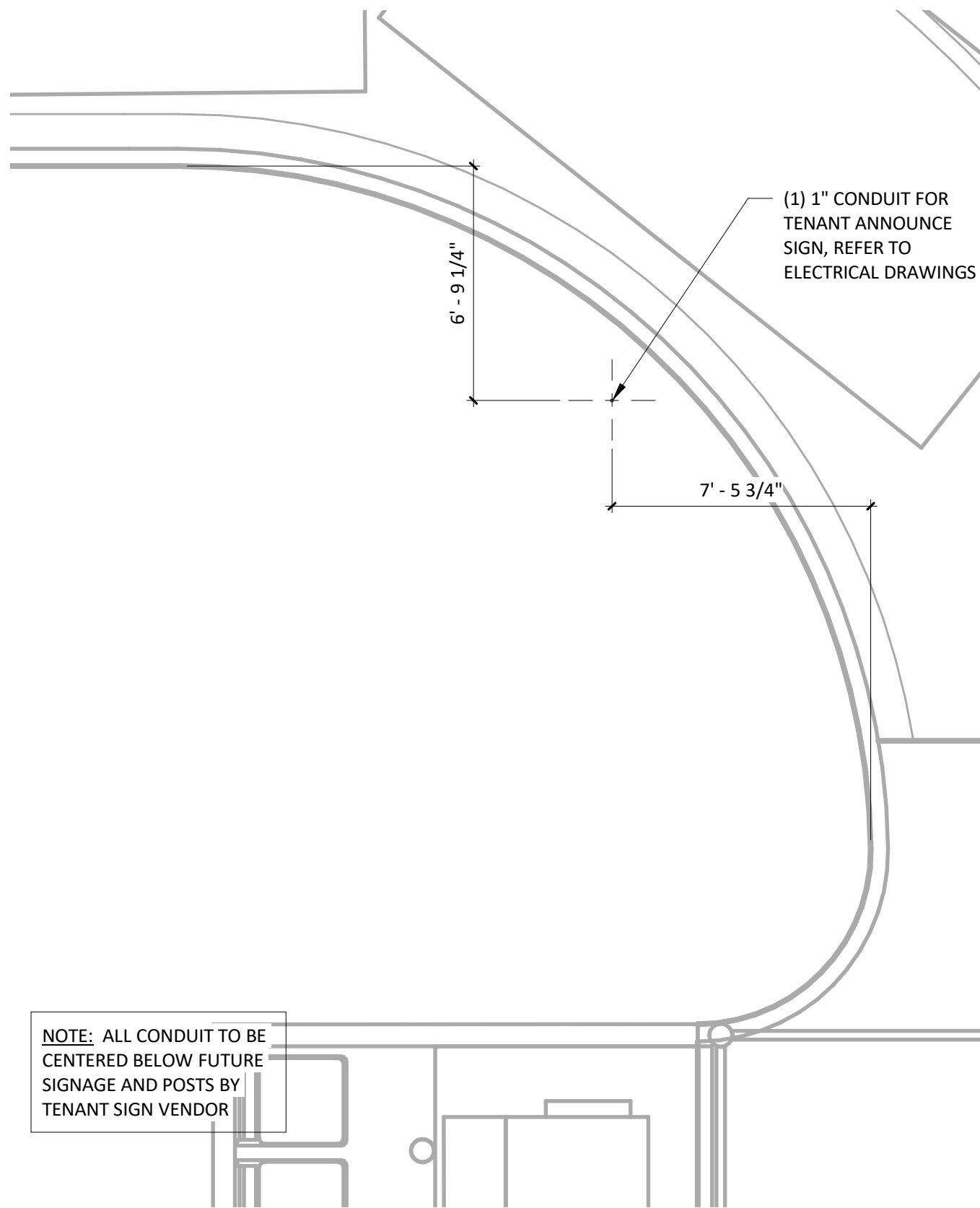




**ARCHITECTURAL SITE PLAN DIMENSIONED**  
1/4" = 1'-0"

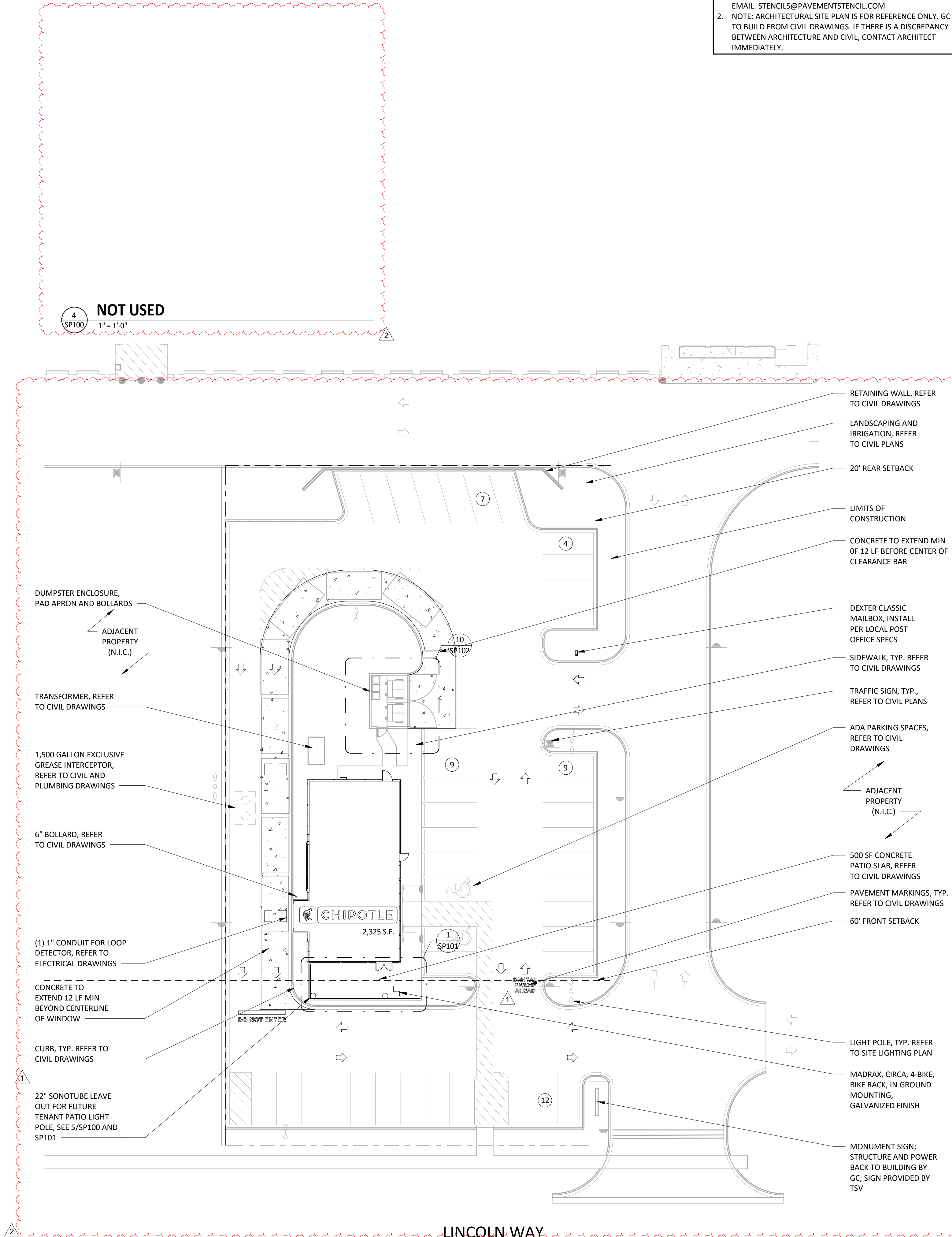


**PATIO POLE LIGHT FOUNDATION DETAIL**  
1" = 1'-0"

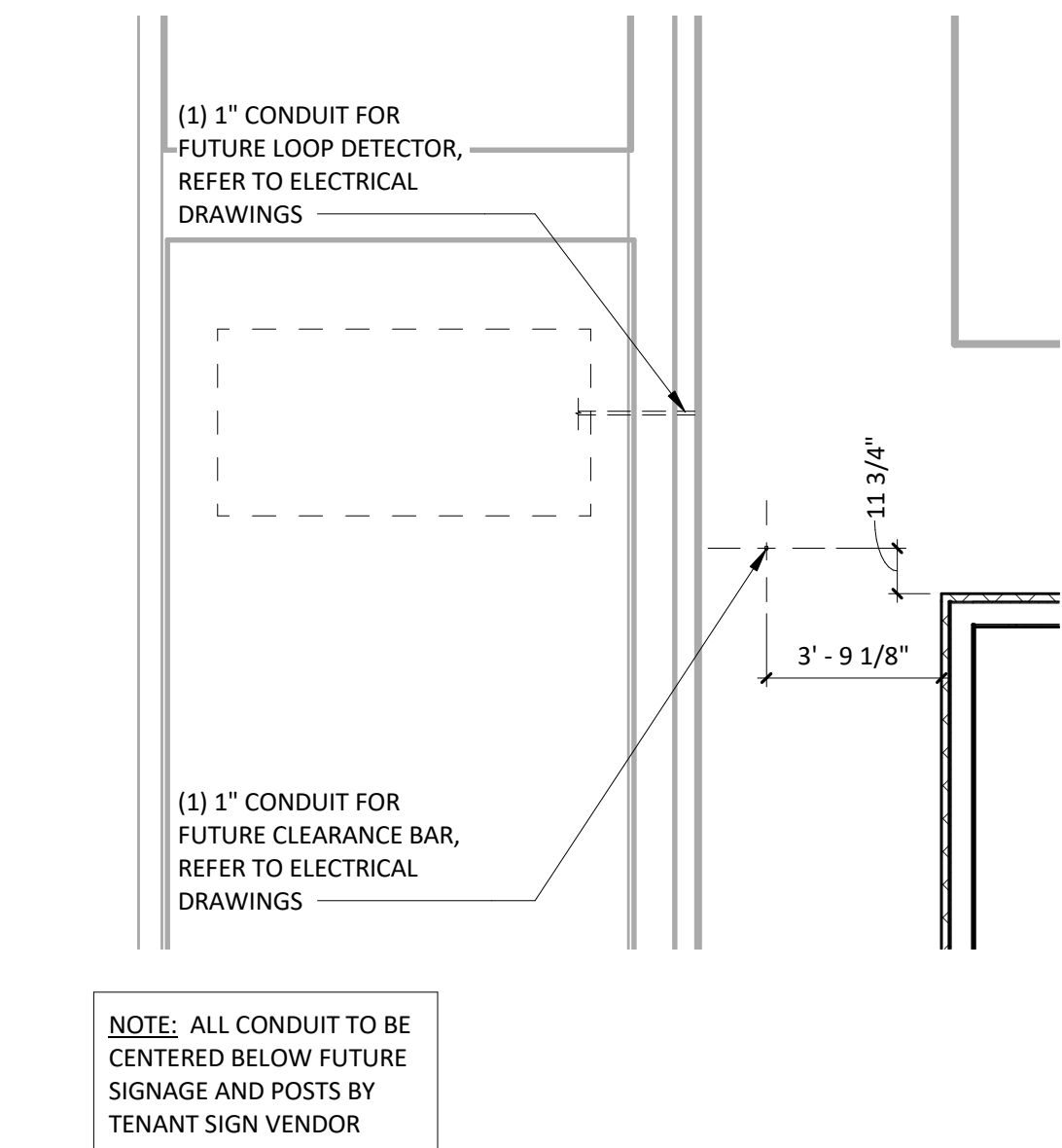


NOTE: ALL CONDUIT TO BE  
CENTERED BELOW FUTURE  
SIGNAGE AND POSTS BY  
TENANT SIGN VENDOR

**ARCHITECTURAL SITE PLAN DIMENSIONED**  
1/4" = 1'-0"

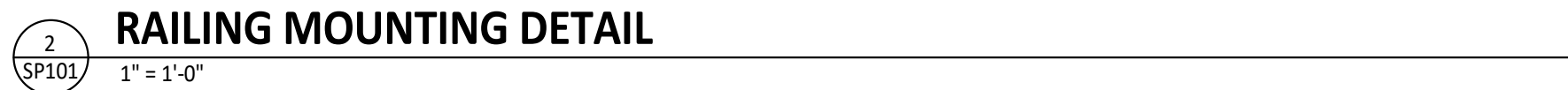


**ARCHITECTURAL SITE PLAN**  
3/64" = 1'-0"



**ARCHITECTURAL SITE PLAN DIMENSIONED**  
1/4" = 1'-0"

## SITE RAILING DETAILS



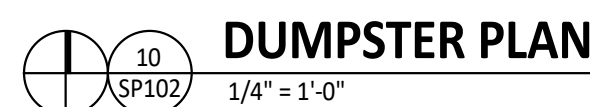
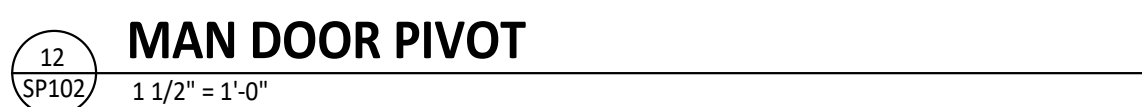
MATERIAL	COLOR/FINISH
CMU - PRIMER	REFER TO PAINT SPECIFICATIONS, COLOR 'WHITE'
CMU	REFER TO PAINT SPECIFICATIONS
METAL COPING	PREFINISHED TO MATCH PAINTED CMU
CORRUGATED METAL & DOOR FRAMES	PAINTED 'KNIGHTS ARMOR' PPG 1001-6

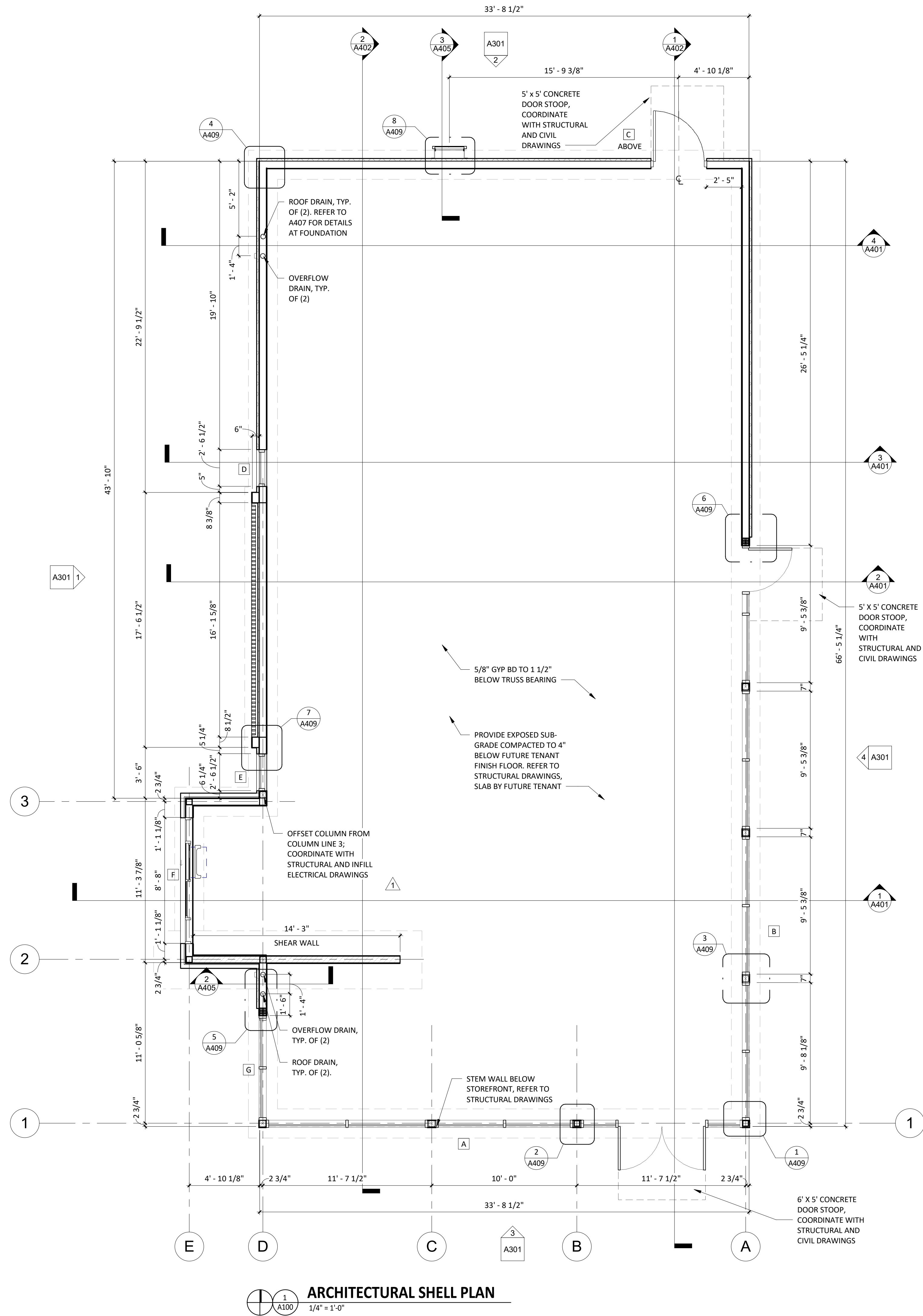
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Drawn:	Checked:
DP	KM
Project No.	
SIG001	
Contents:	

# SP102





## CONSTRUCTION NOTES

1. REFER TO A601 FOR DOOR INFORMATION & A602 FOR STOREFRONT DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING (STUD WALL) OR CENTERLINE OF STRUCTURE UNLESS NOTES OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING AND GAUGES.
4. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.).
5. TAPE SEALANT AT ALL ANCHOR LOCATIONS.
6. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.
7. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.
8. EXTEND ALL THRU-WALL FLASHING TO 1/4 INCH PAST THE EXTERIOR FACE OF WALL.
9. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.
10. EXTEND FLASHING VERTICALLY A MINIMUM OF 8 INCHES ABOVE THE BASE OF THE FLASHING.
11. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.
12. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS AND JAMBS.

Consultant:  
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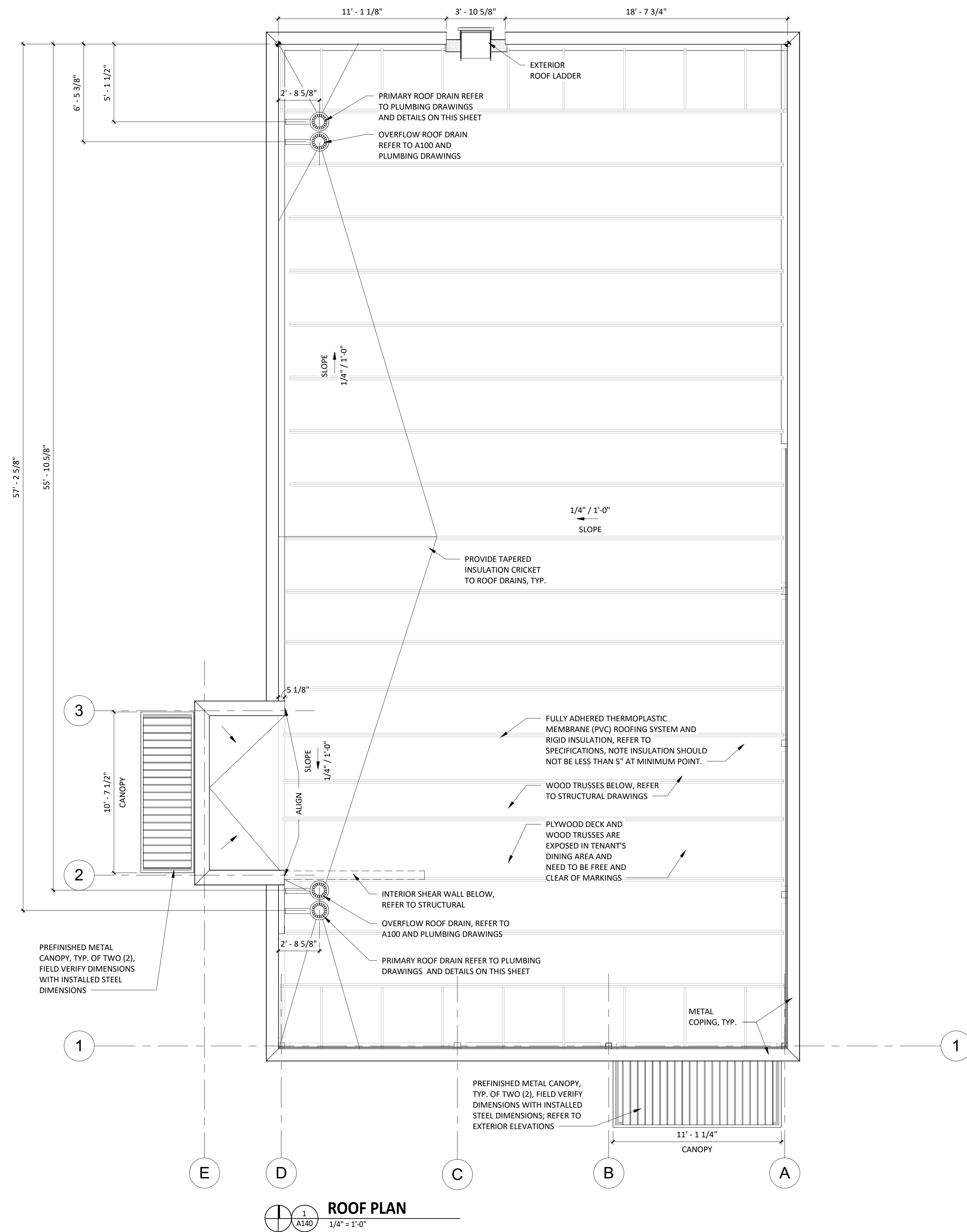
Revisions:	
1	11.08.21 FOR CONSTRUCTION

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Project No.  
SIG001

Contents:  
ARCHITECTURAL  
SHELL PLAN

A100



## GENERAL NOTES

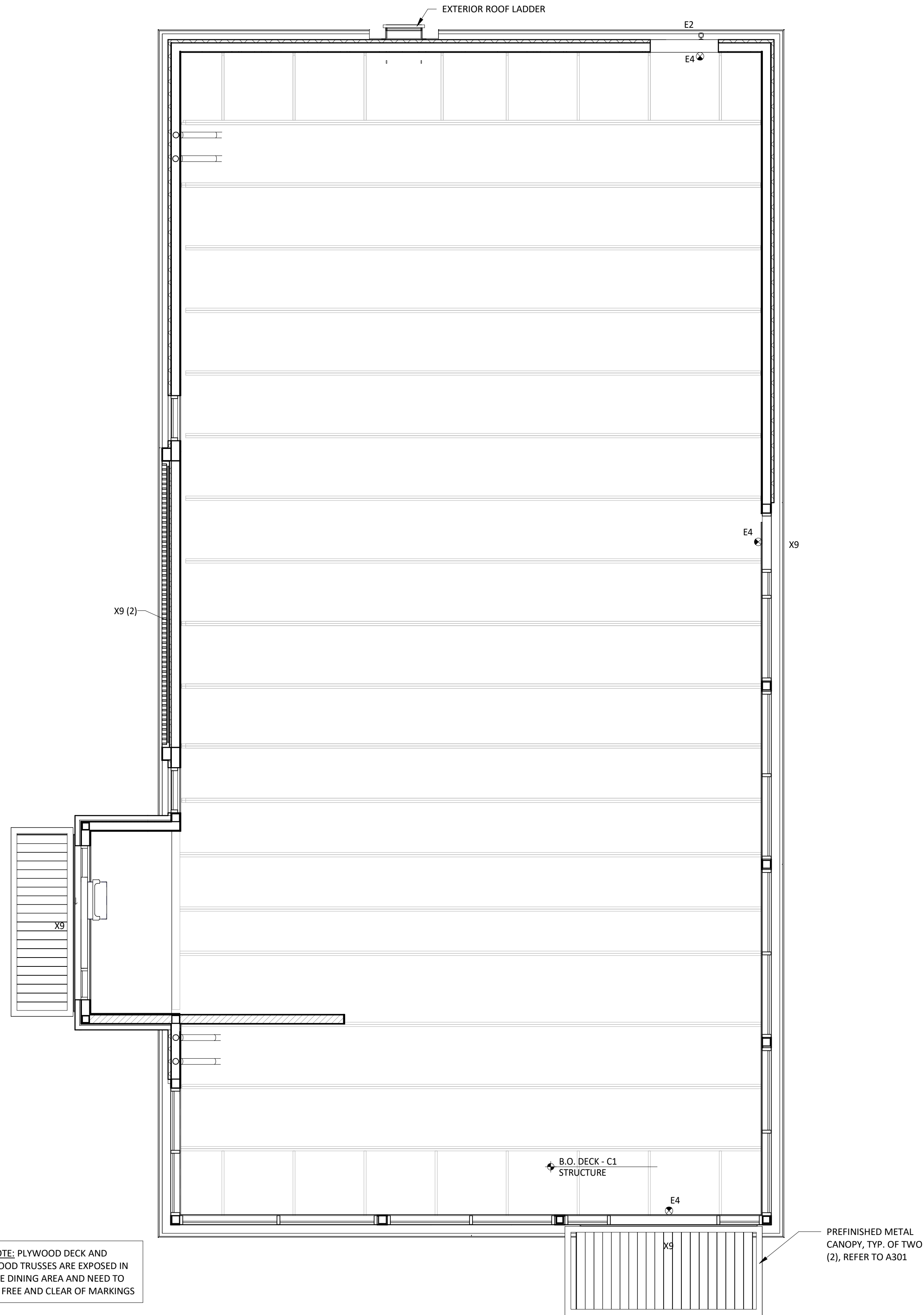
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|----|---|
| 1. | ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY GC.   |
| 2. | ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.                              |
| 3. | FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E400.  |
| 4. | ALL EXTERIOR BUILDING MOUNTED FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHT FIXTURE SCHEDULE ON E400.                            |
| 5. | ALL DIMENSIONS ARE TO THE FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.   |
| 6. | ALL WATER LINES AND EXPOSED PVC SHALL BE INSTALLED UP IN TRUSSES.   |
| 7. | SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.   |
| 8. | ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.   |
| 9. | ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100. |

## CONDUIT GUIDELINES

SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

## LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
E2	1	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	3	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
X9	5	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100



 **REFLECTED CEILING PLAN**  
1/4" = 1'-0"

consultant:

**r e d**

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Project No.

SIG001

Contents:

REFLECTED CEILING  
PLAN

A201

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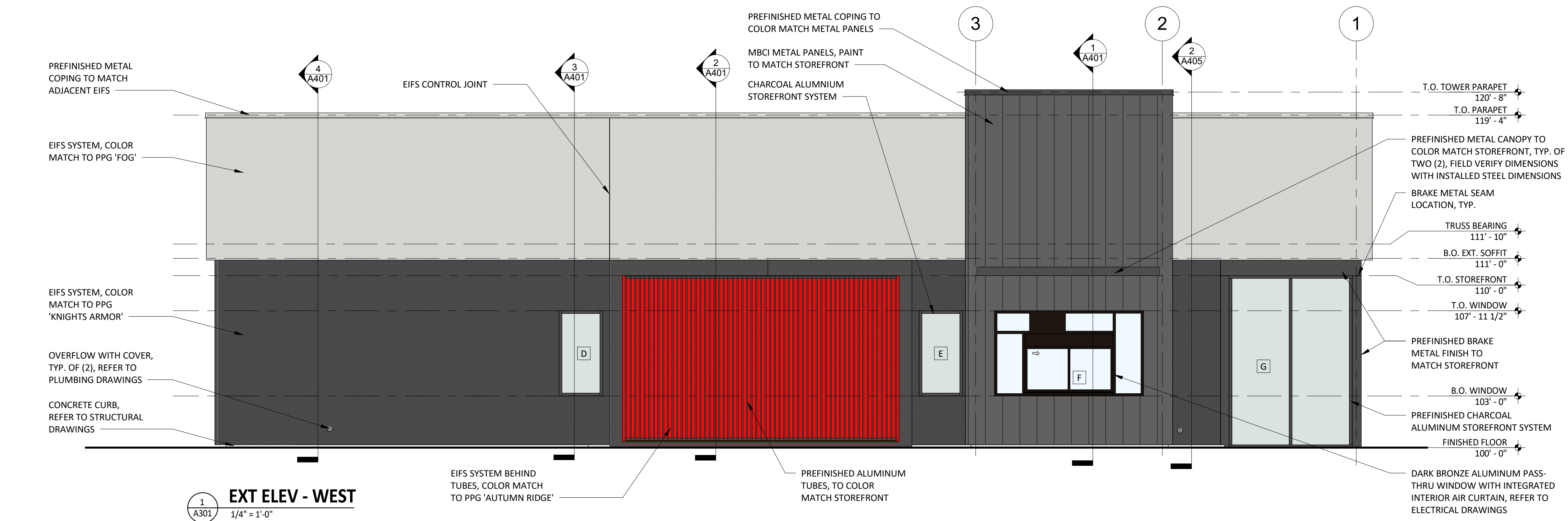
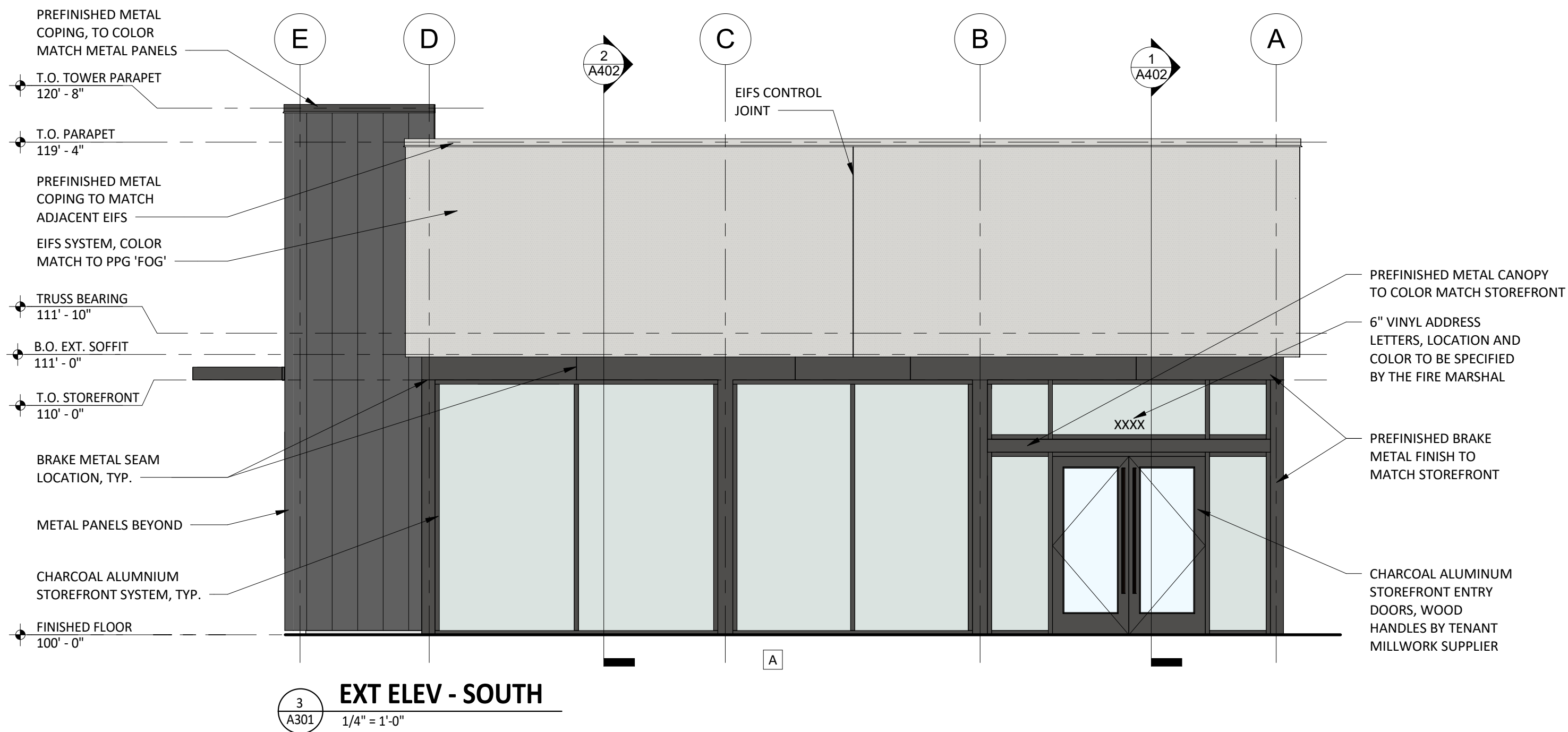
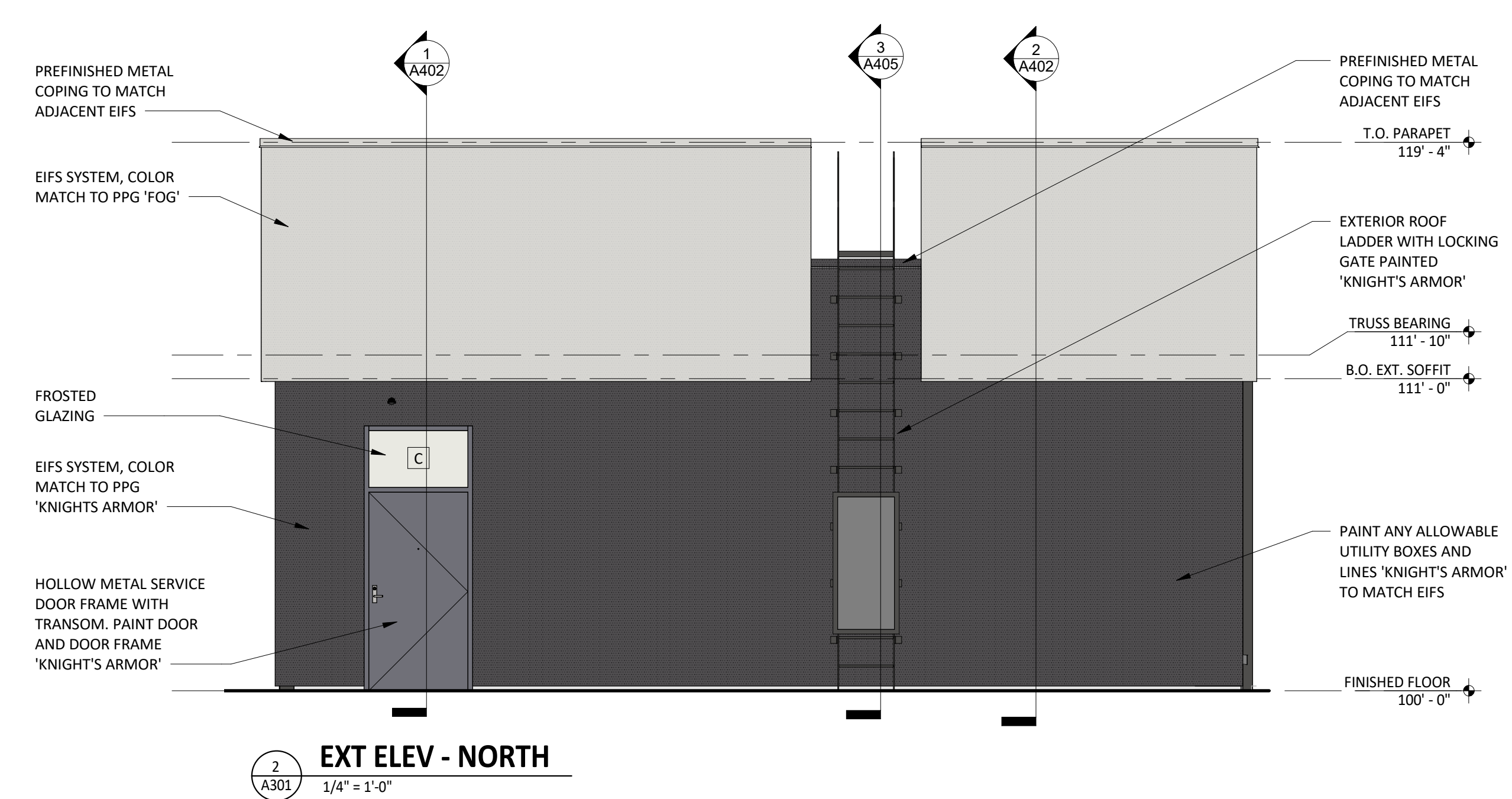
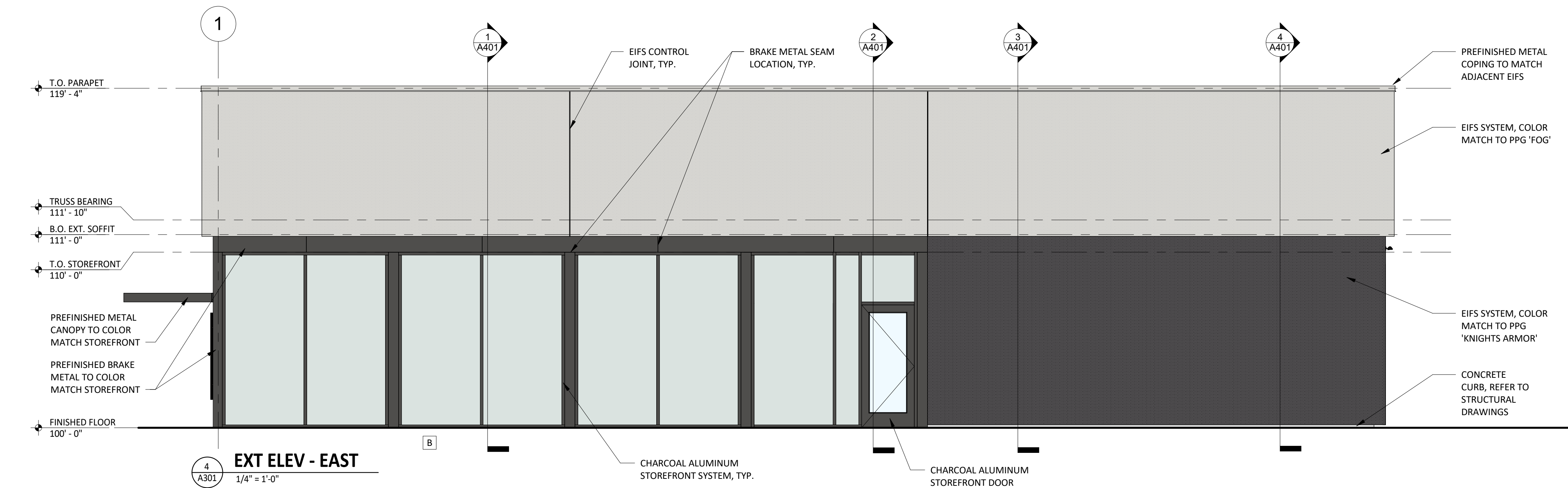
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## EXTERIOR ELEVATIONS

A301



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11.08.21	CONSTRUCTION SET

Revisions:	

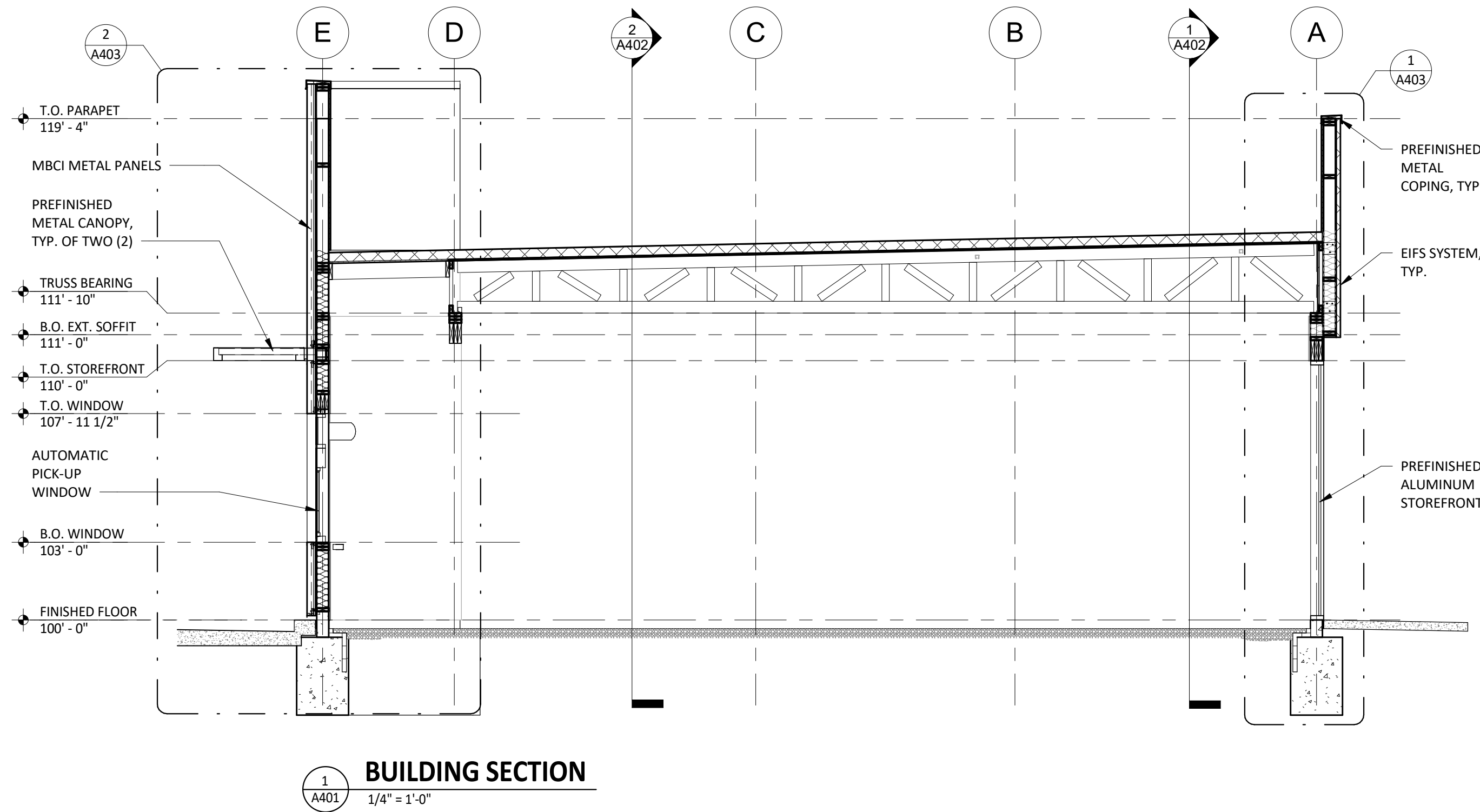
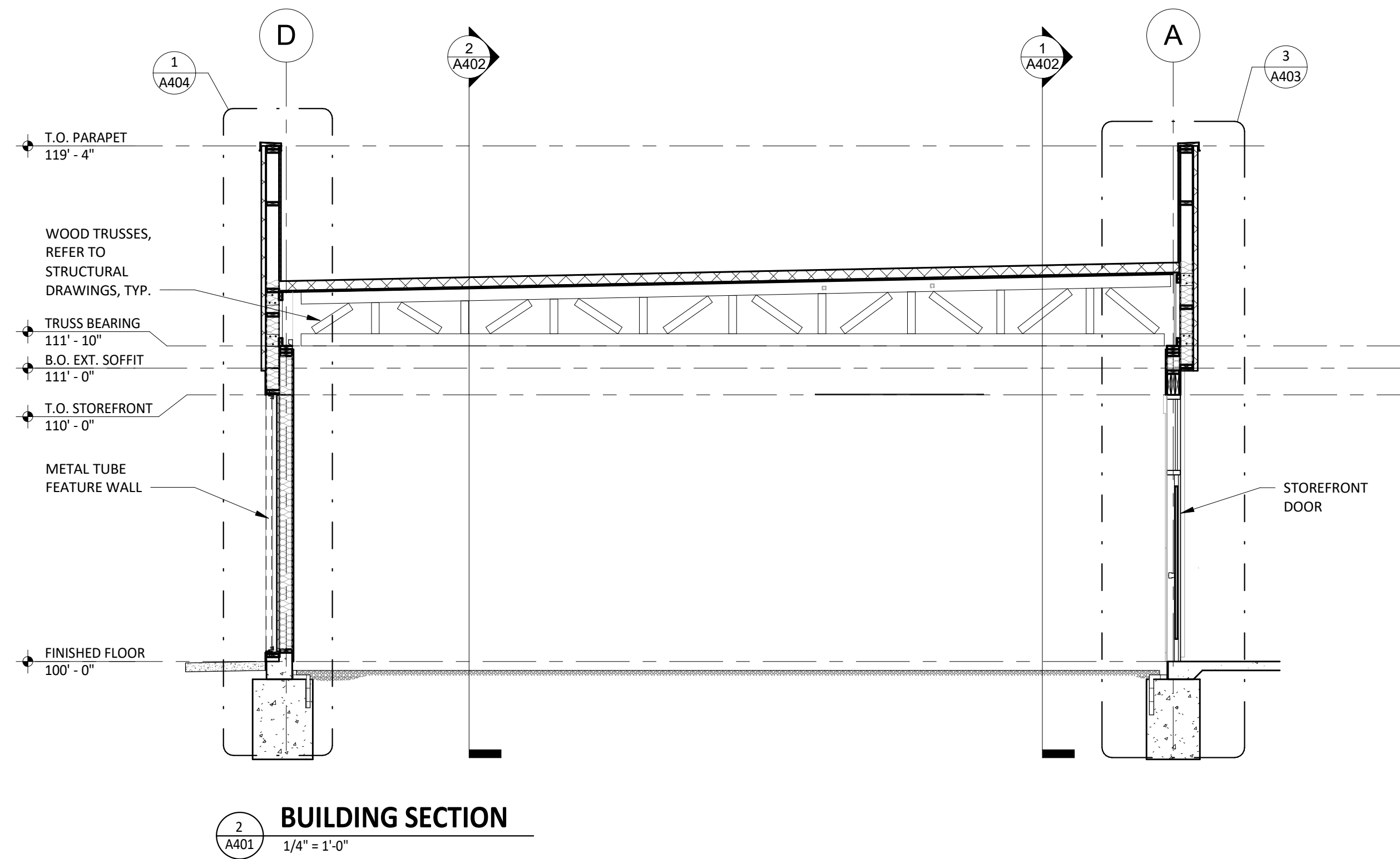
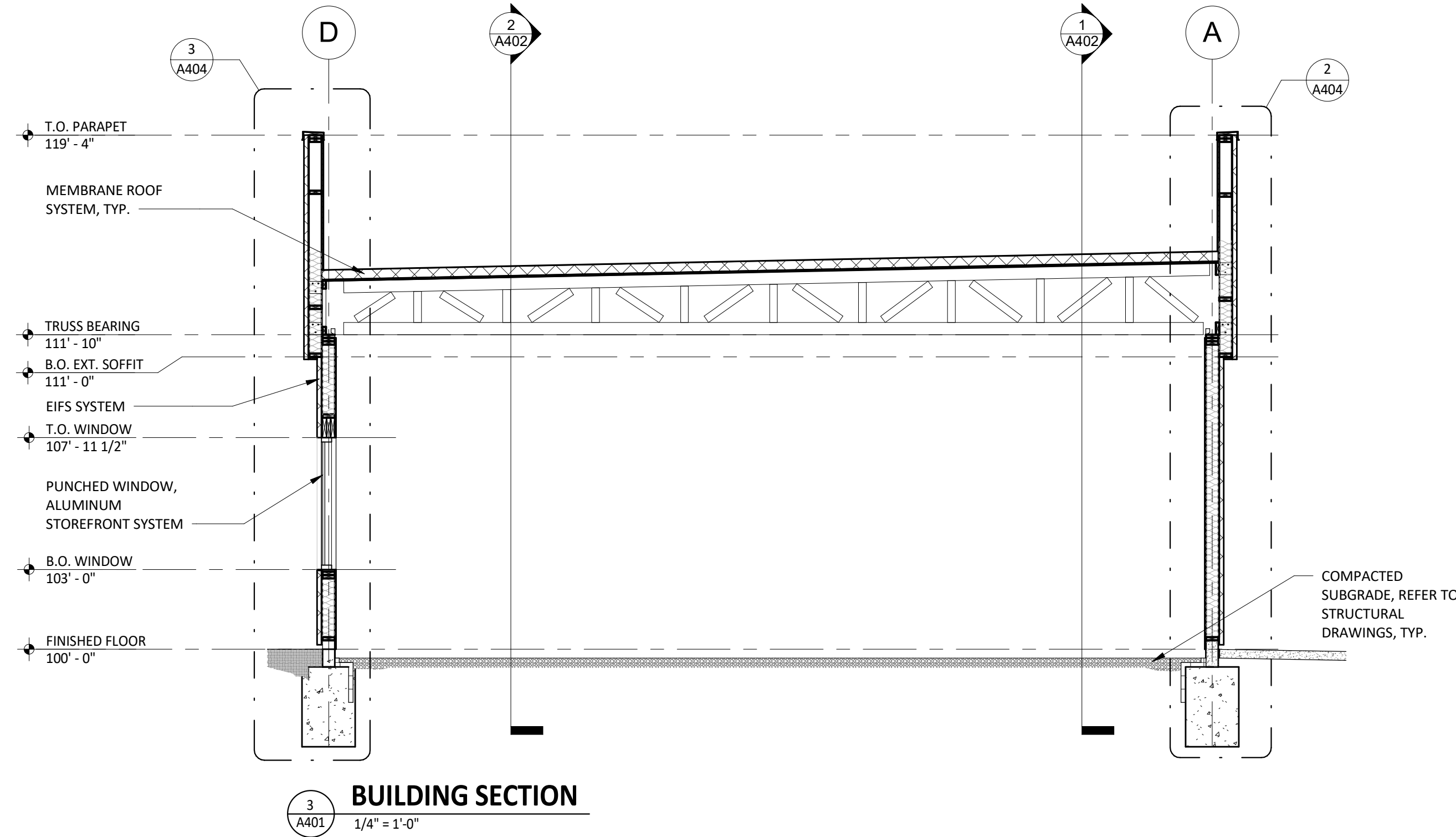
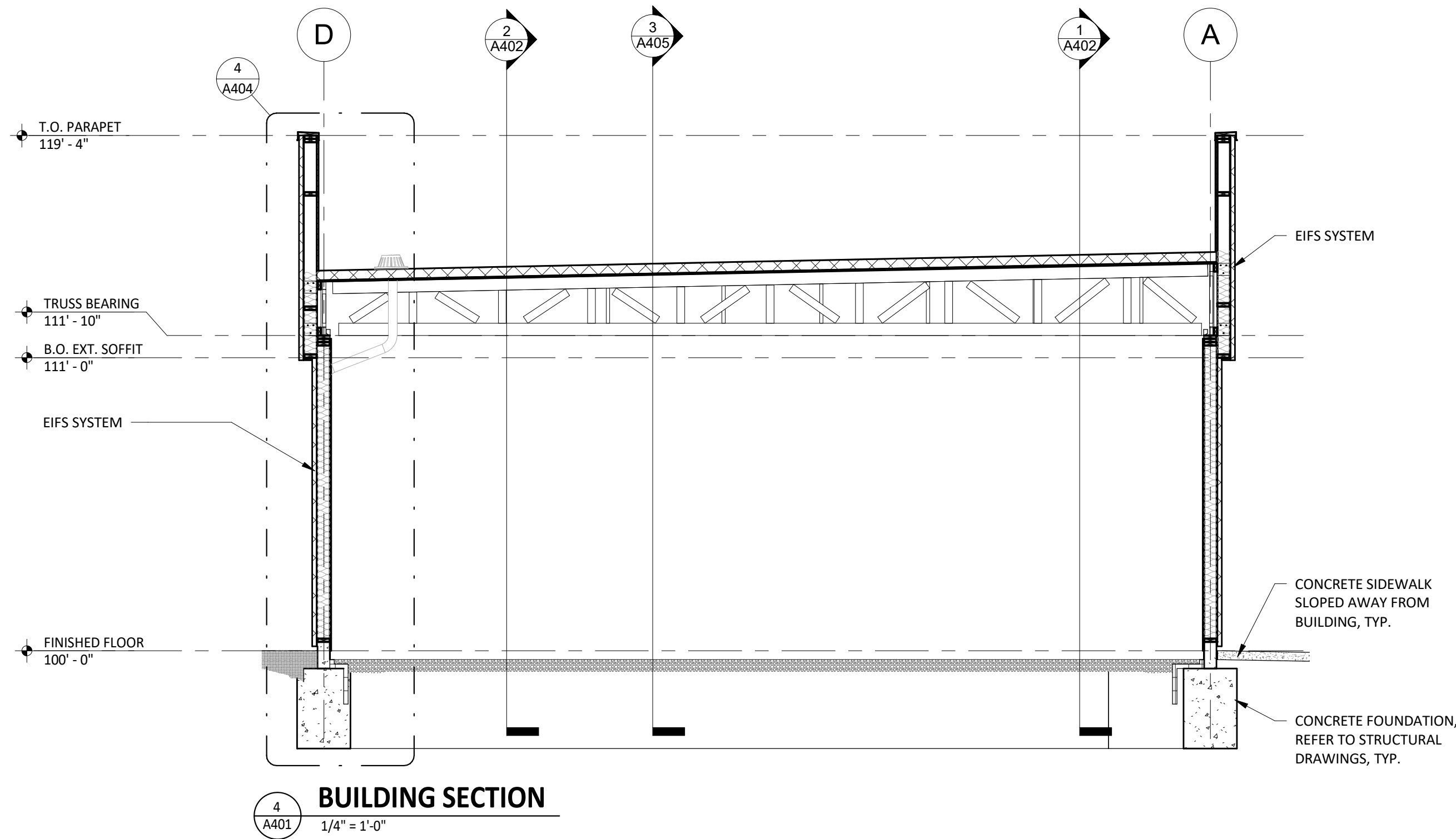
Drawn:	Checked:
DP	KM

Project No.
SIG001

Contents:

BUILDING SECTIONS

A401



STORE NO.: 0000  
LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

Issue Record:

<u>08.19.21</u>	<u>PERMIT SET</u>
<u>01.08.21</u>	<u>CONSTRUCTION SET</u>

[illegible]

Drawn:	Checked:
OP	KM

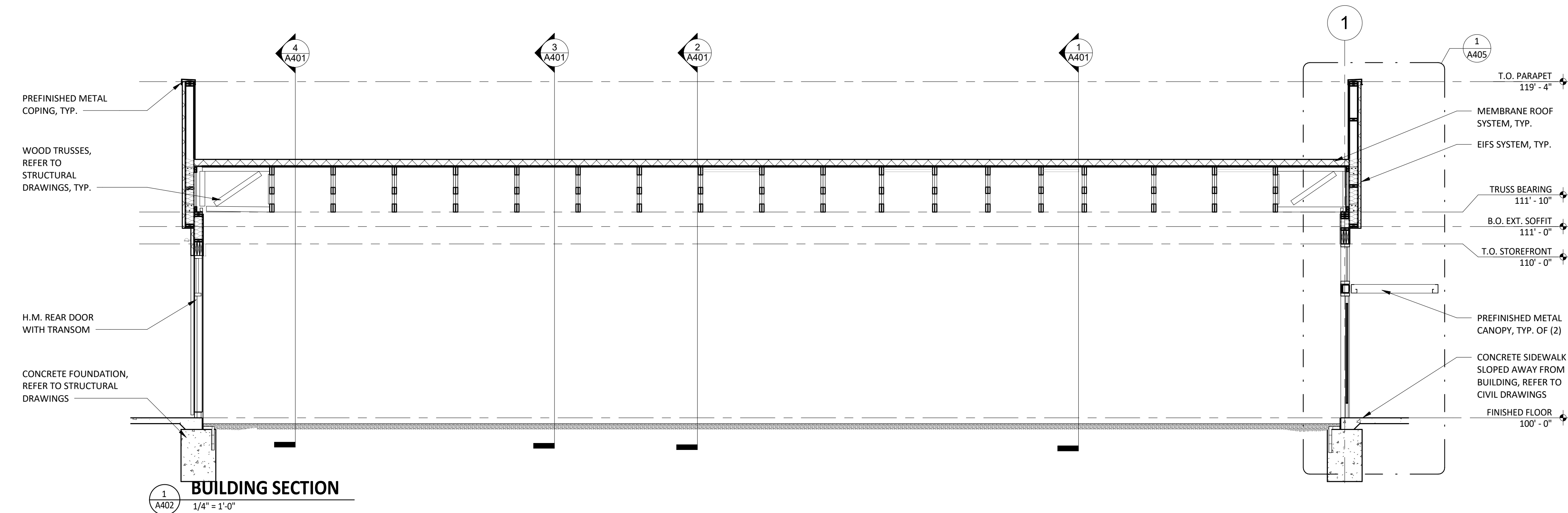
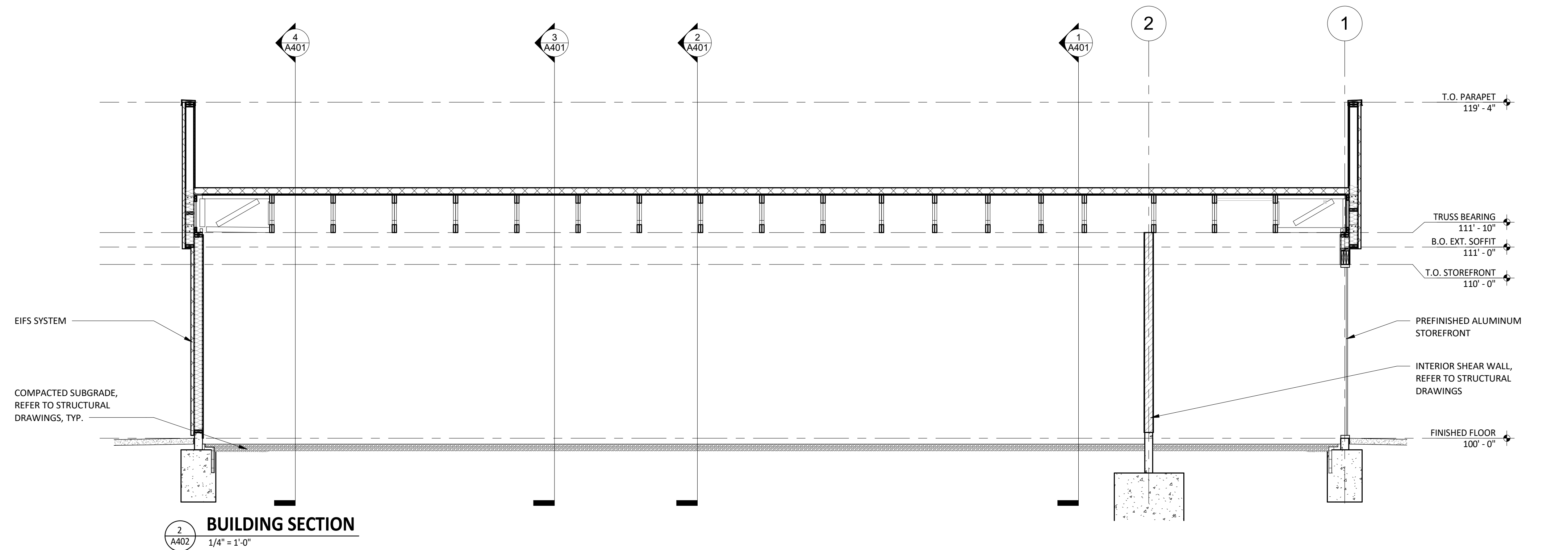
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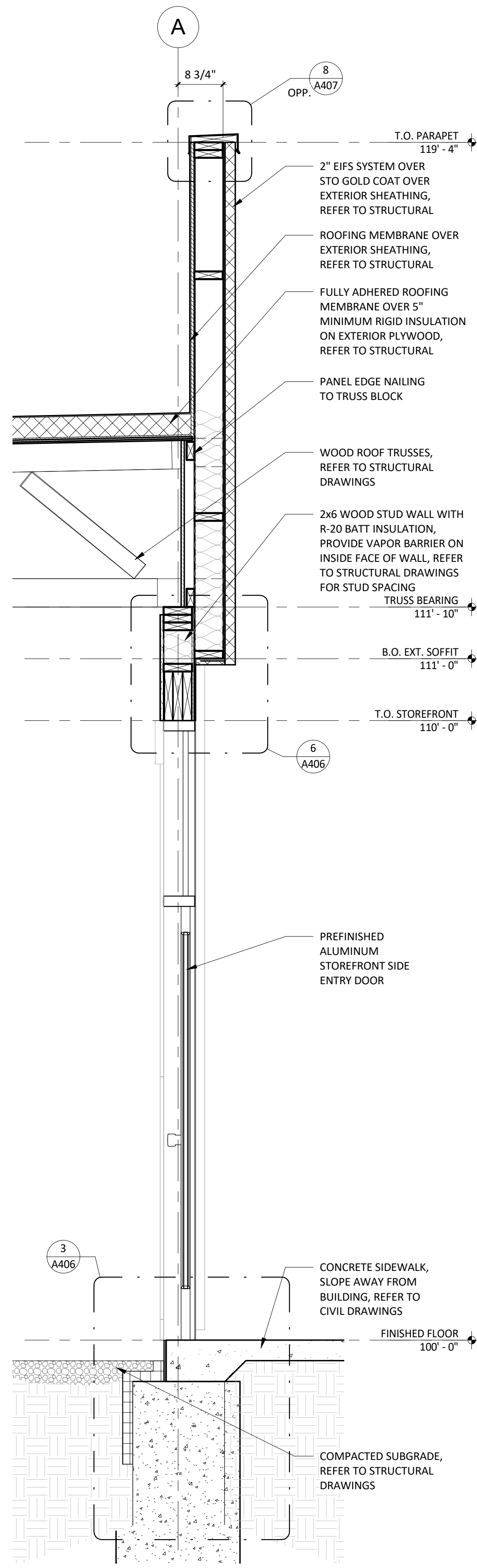
SIG001

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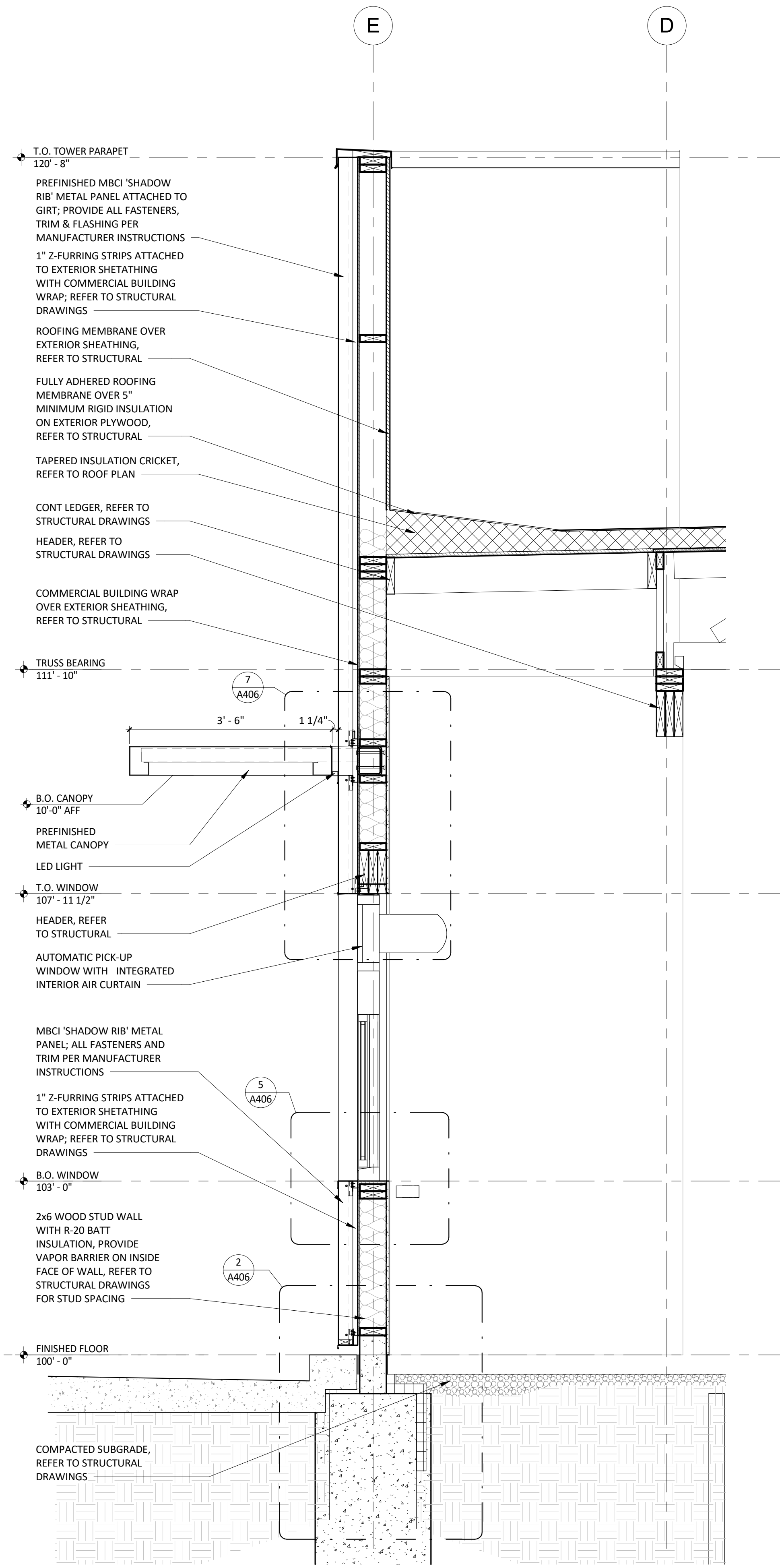
## BUILDING SECTIONS

# A402

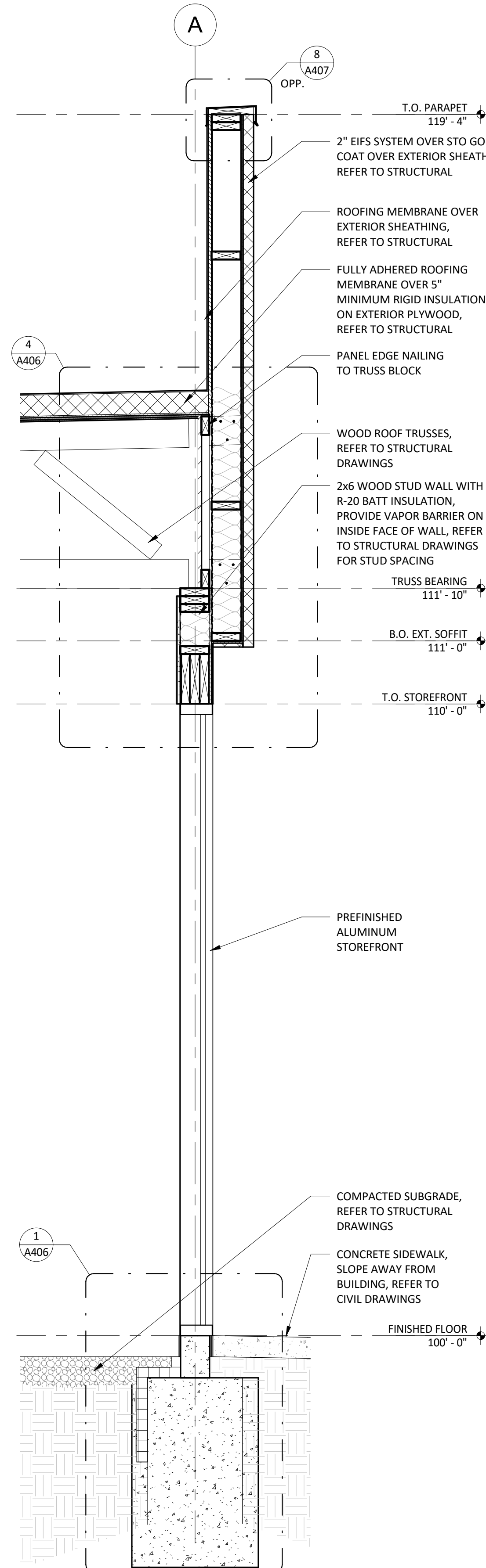




3  
A403  
**WALL SECTION**  
3/4" = 1'-0"



2  
A403  
**WALL SECTION**  
3/4" = 1'-0"



1  
A403  
**WALL SECTION**  
3/4" = 1'-0"

FOR  
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STORE NO.: 0000  
LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

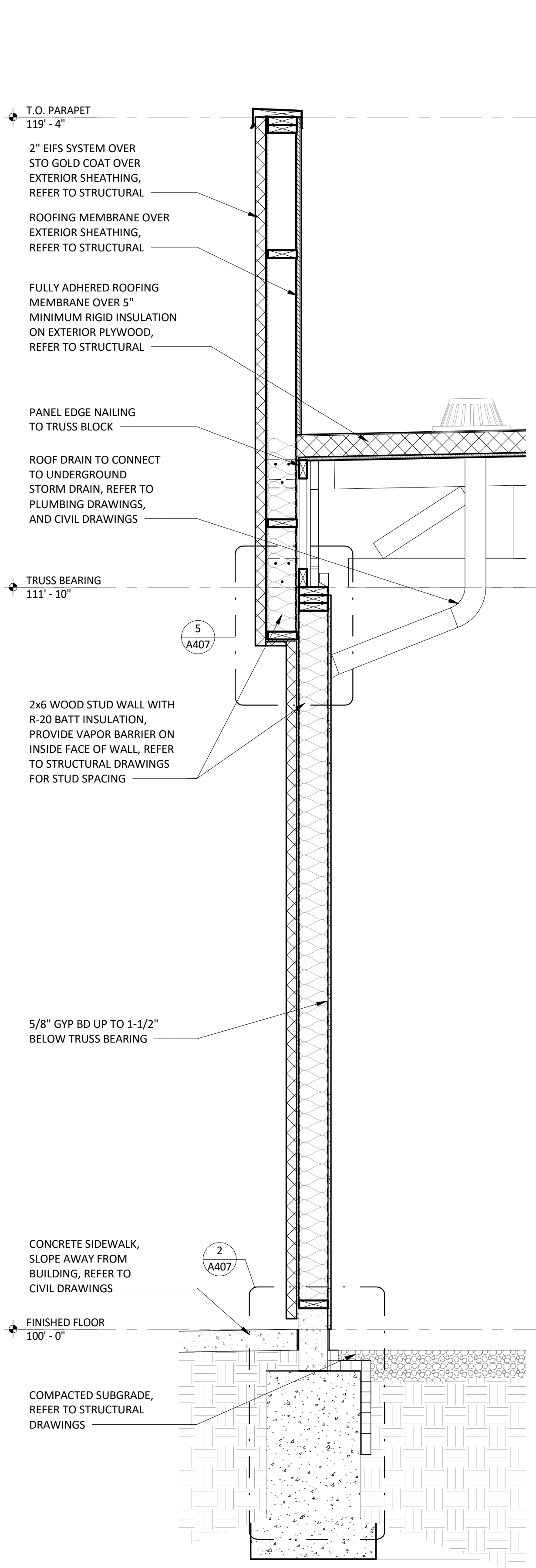
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11.08.21	CONSTRUCTION SET

Revisions:	

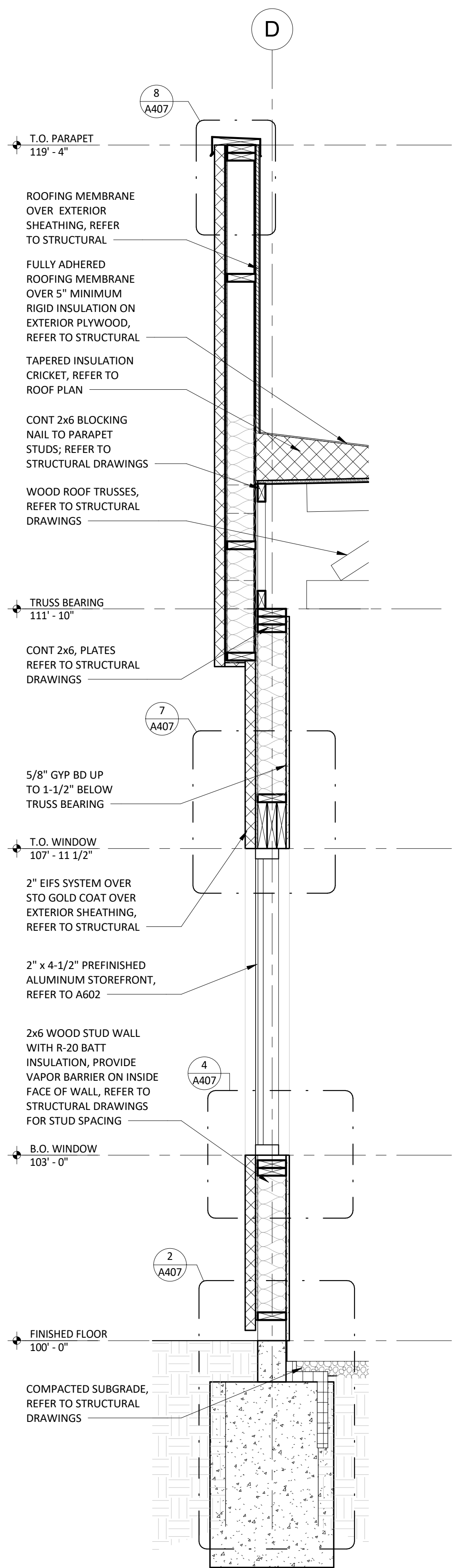
Drawn:	Checked:
DP	KM

Project No.
SIG001

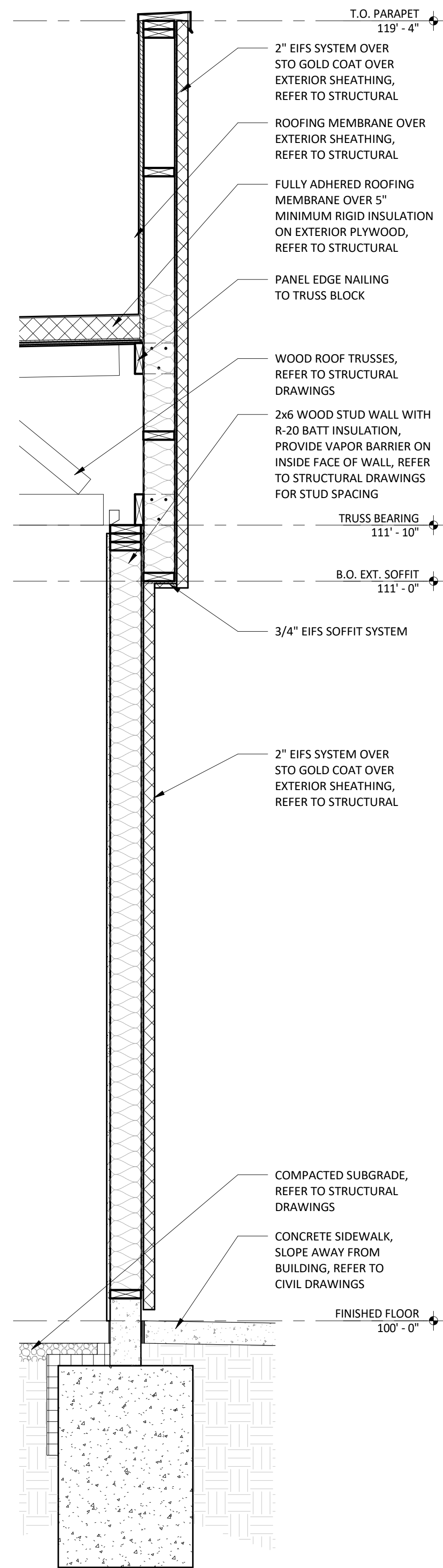
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**WALL SECTIONS**



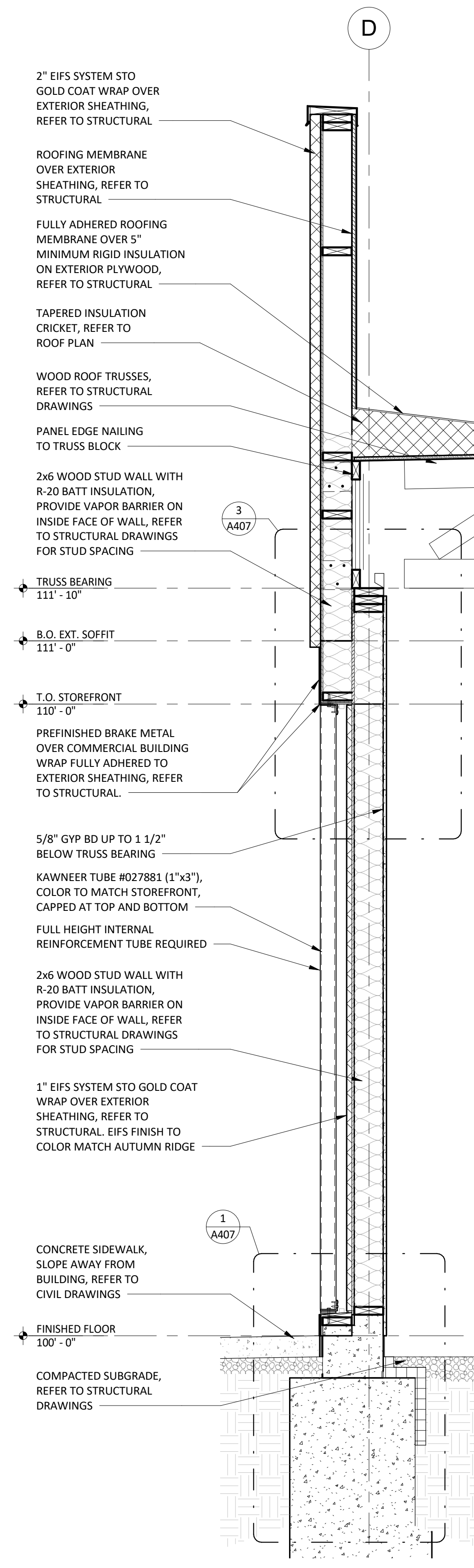
4  
A404  
Section\_EIFS\_w/Roof-Drain  
3/4" = 1'-0"



3  
A404  
WALL SECTION  
3/4" = 1'-0"



2  
A404  
WALL SECTION  
3/4" = 1'-0"



1  
A404  
WALL SECTION  
3/4" = 1'-0"

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LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

Issue Record:	
08.19.21	PERMIT SET
11.08.21	CONSTRUCTION SET

Revisions:

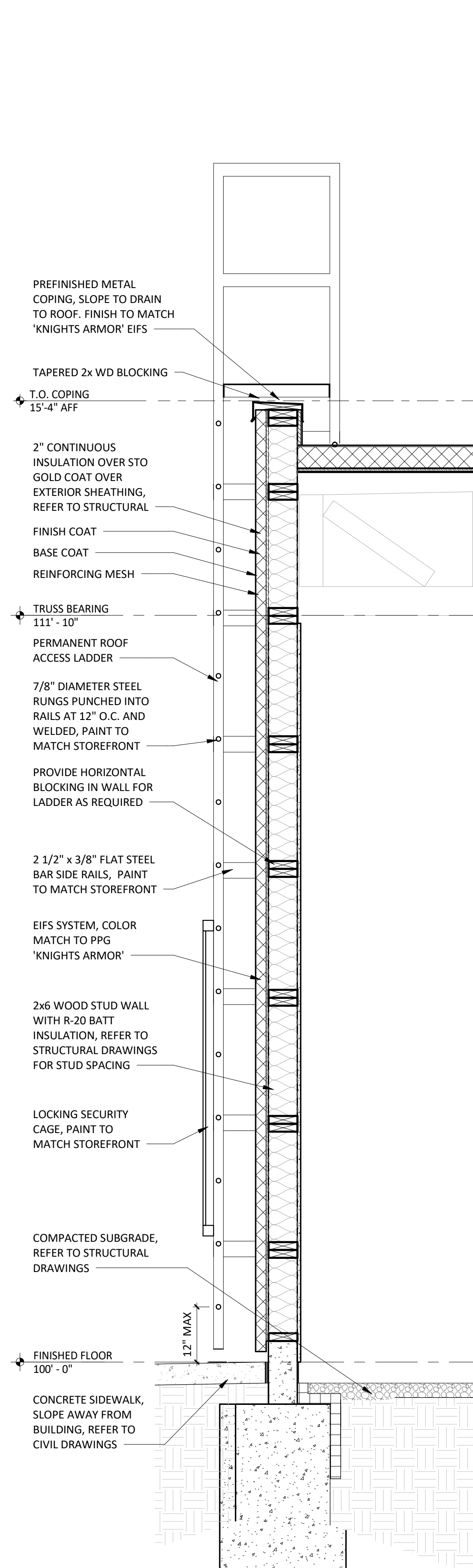
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Project No.:  
SIG001

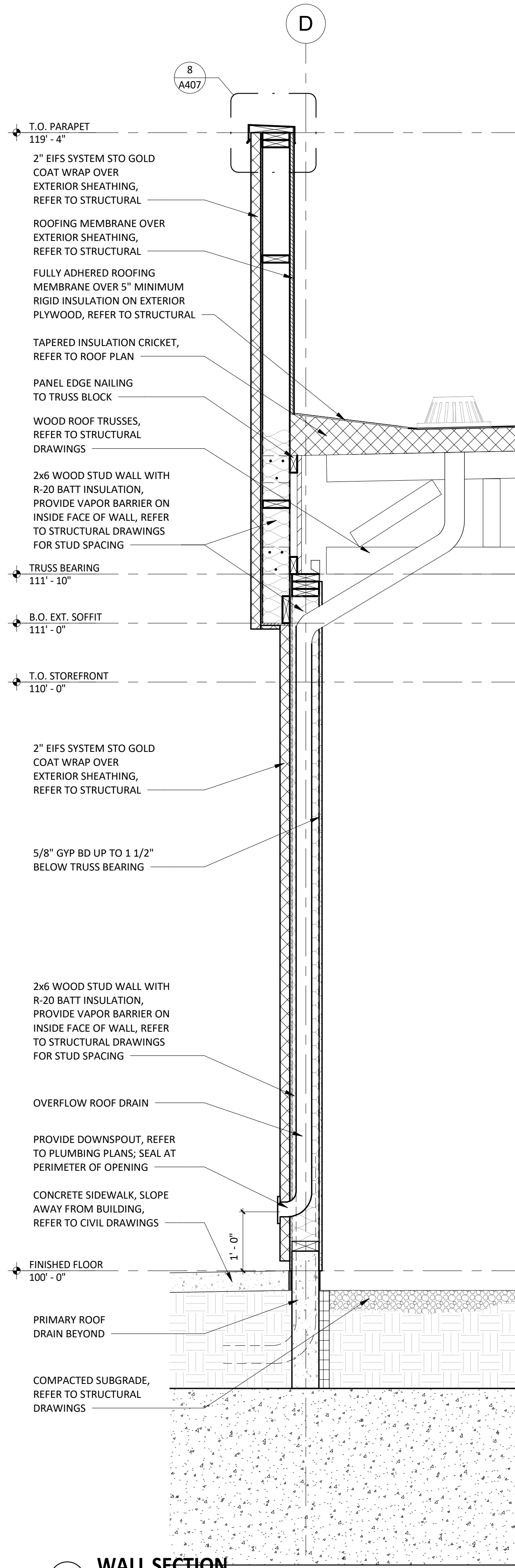
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WALL SECTIONS

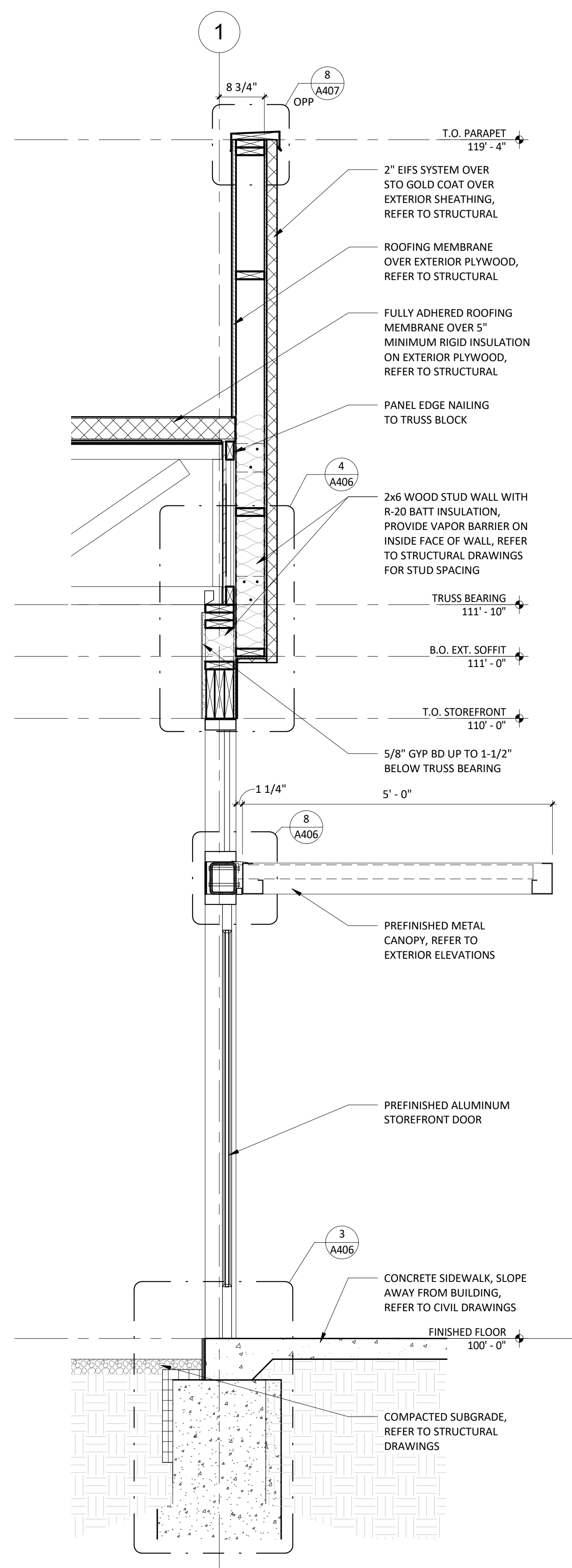
A404



3 WALL SECTION @ ROOF LADDER  
3/4" = 1'-0"



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



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

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LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

Issue Record:	
08.19.21	PERMIT SET
11.08.21	CONSTRUCTION SET

Revisions:

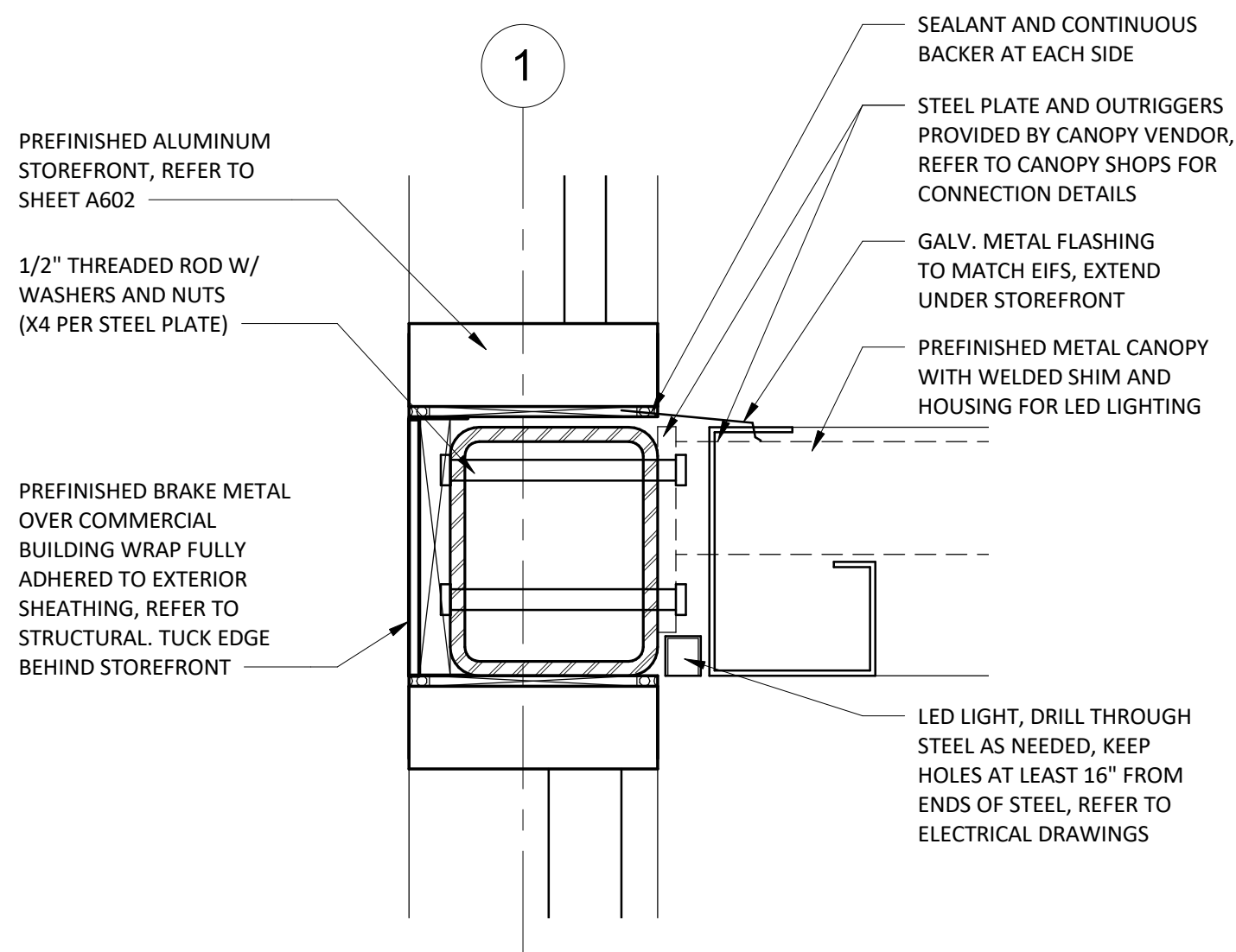
Drawn:	Checked:
DP	KM

Project No.  
SIG001

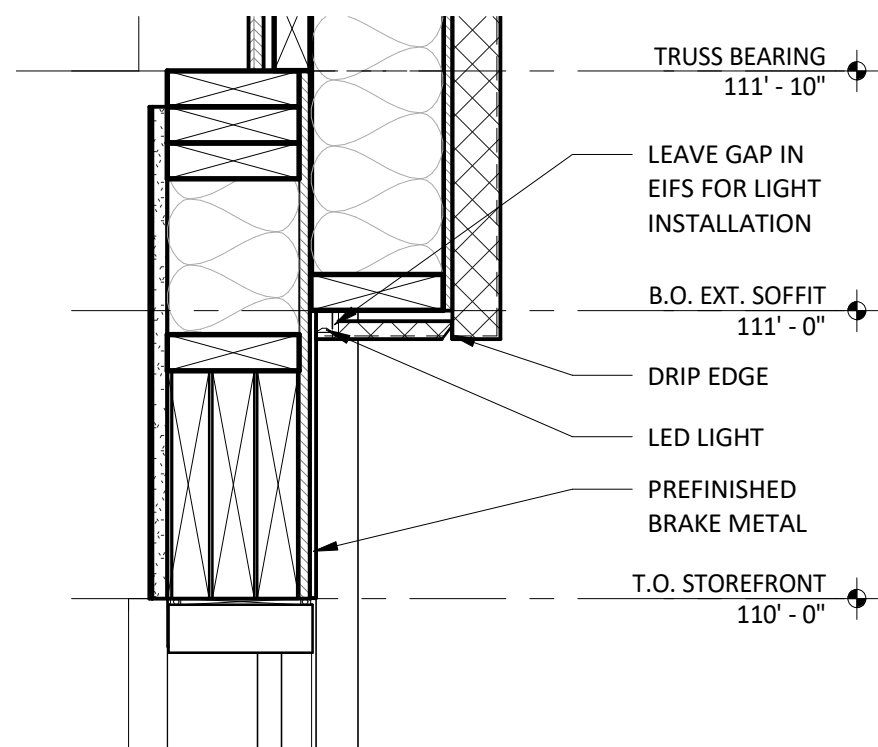
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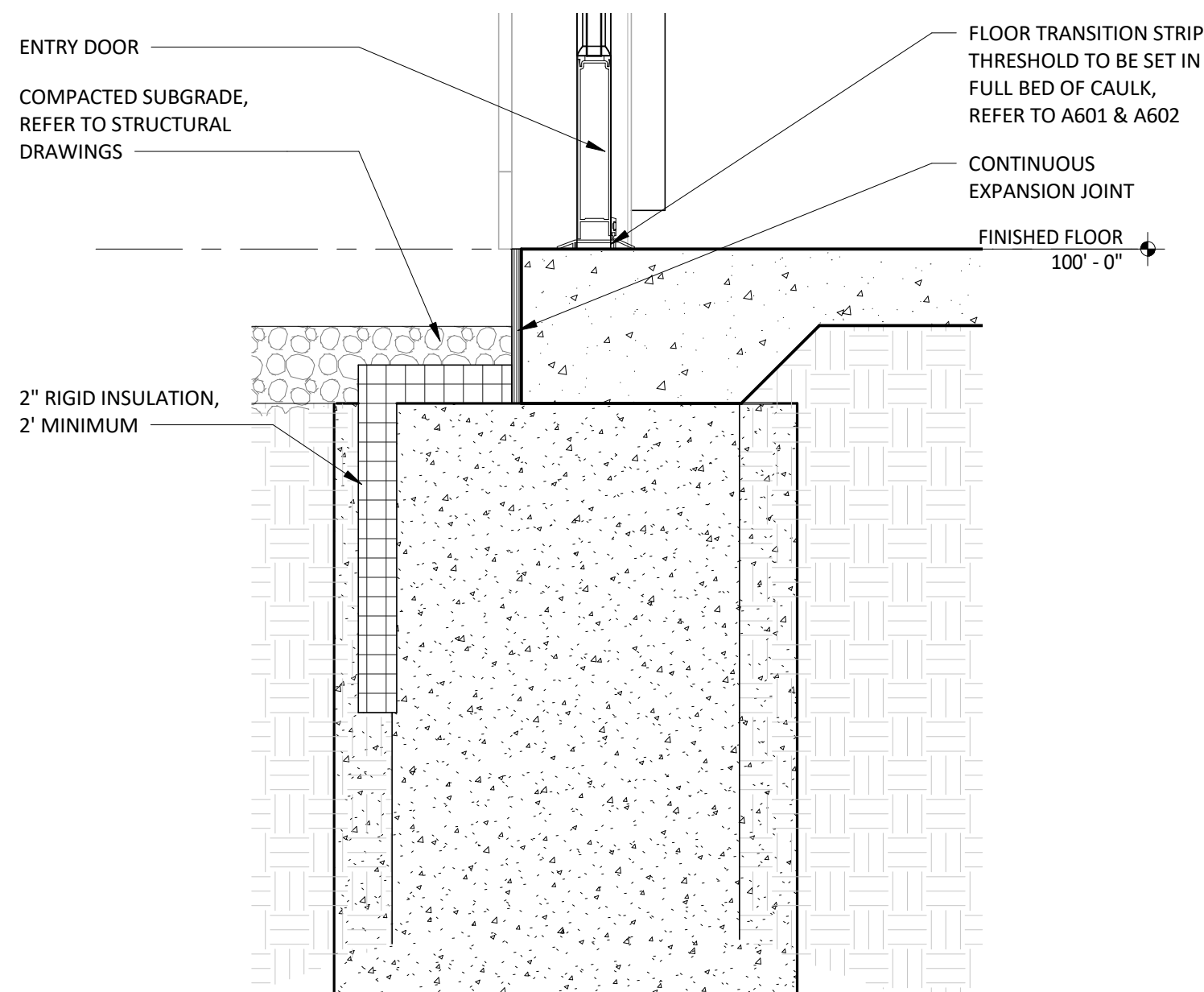
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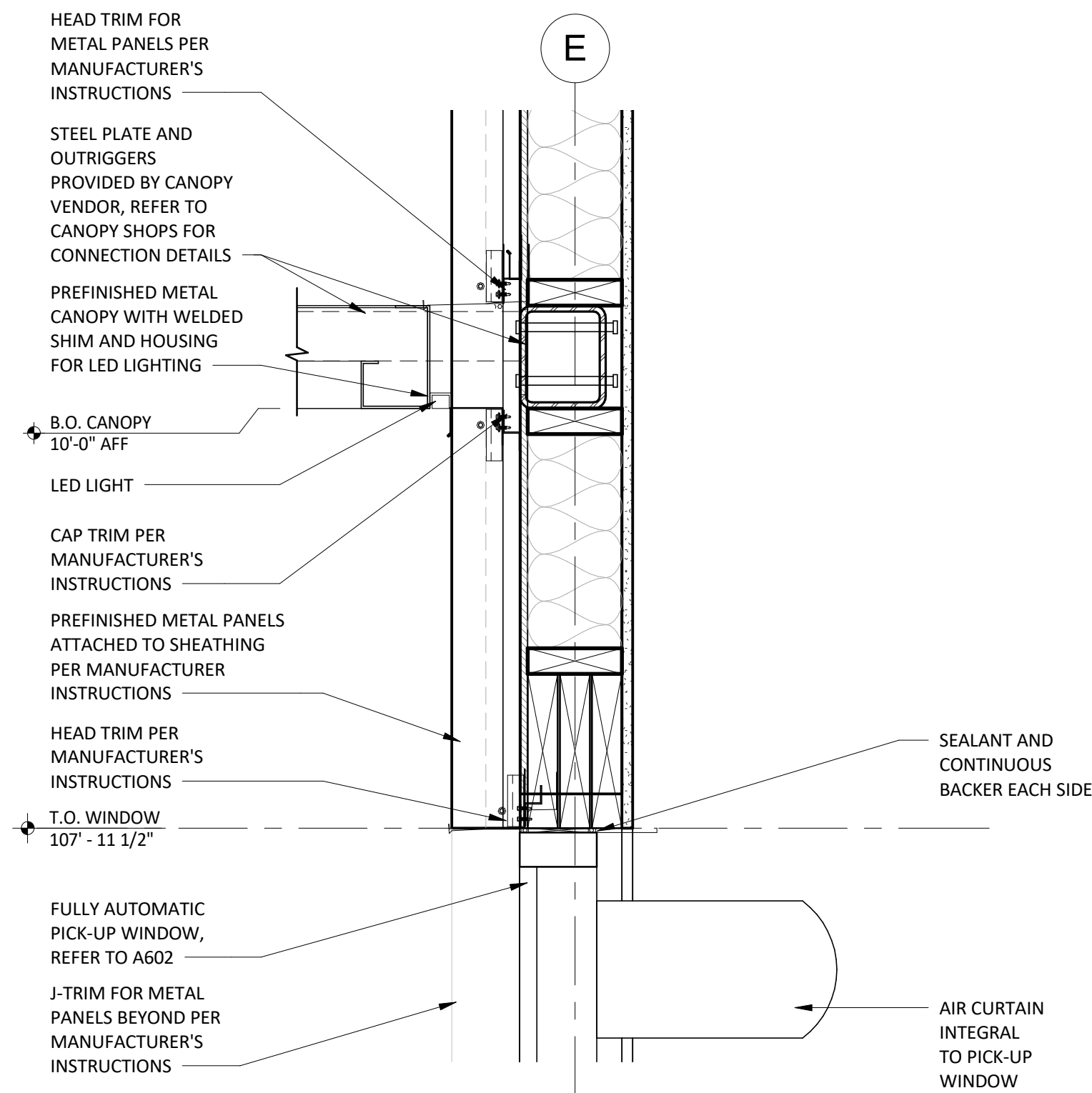
8  
A406  
CANOPY DETAIL  
3" = 1'-0"



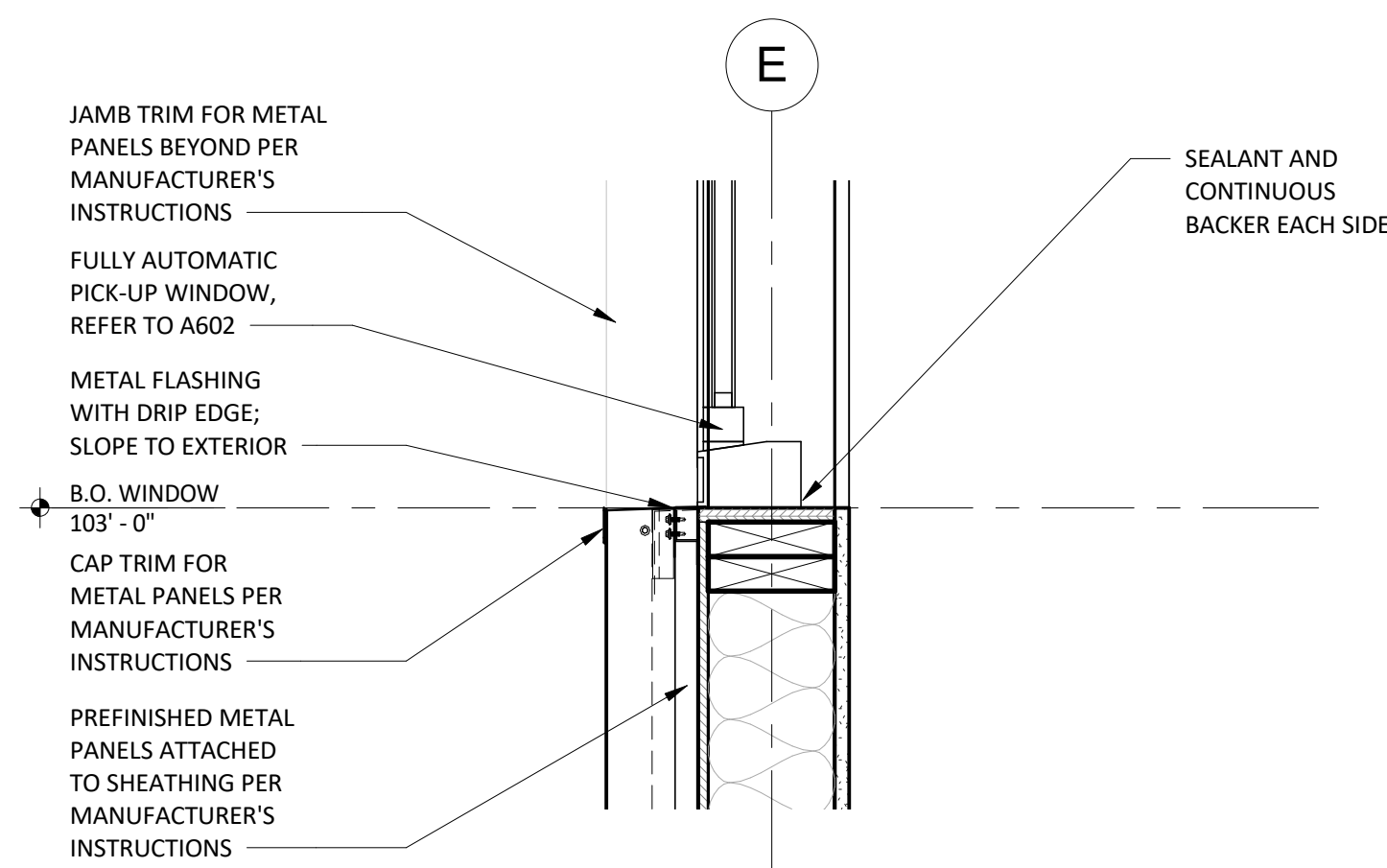
6  
A406  
SOFFIT DETAIL W/ LIGHT  
1 1/2" = 1'-0"



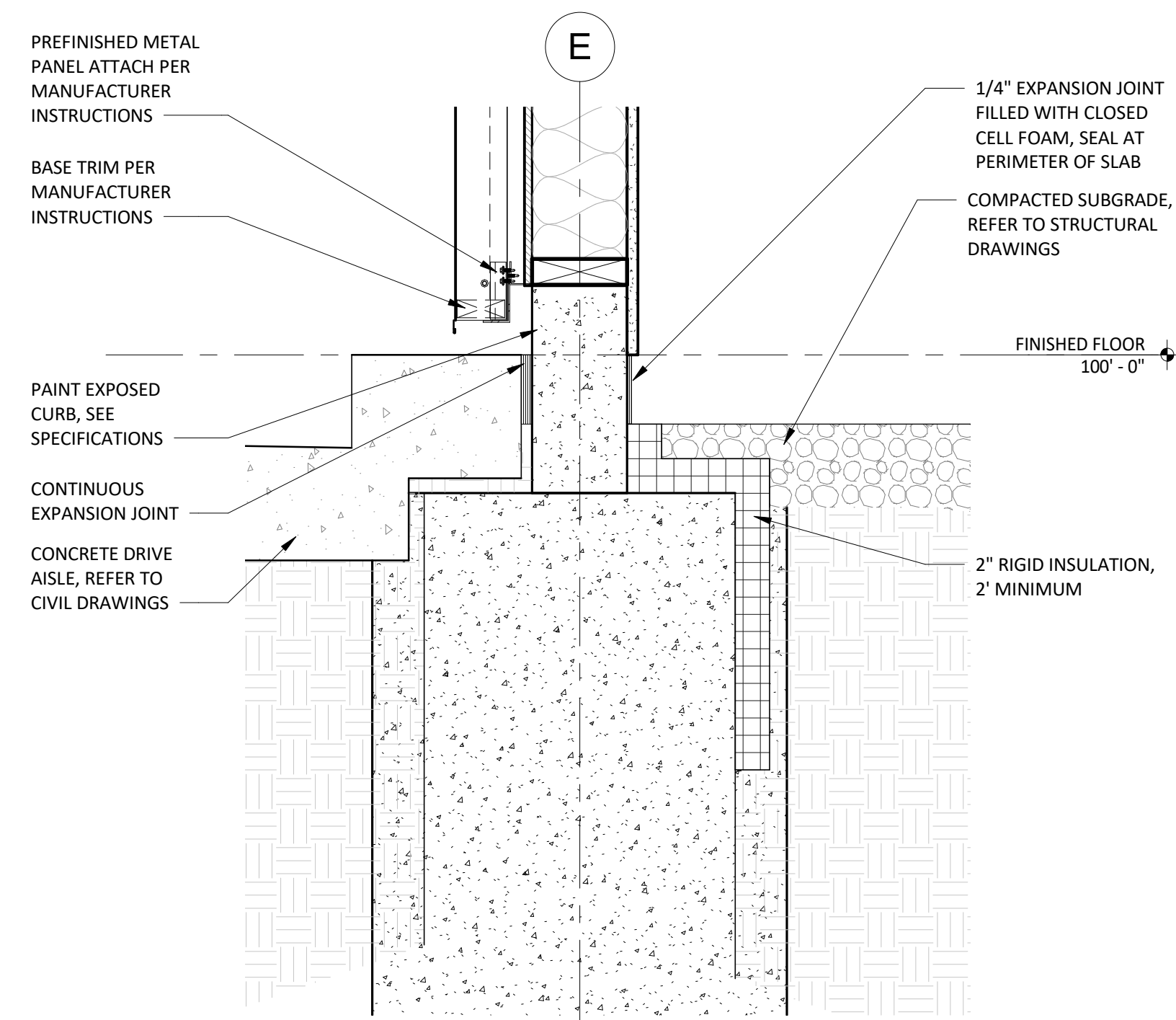
3  
A406  
FOUNDATION DETAIL @ STOREFRONT DOOR  
1 1/2" = 1'-0"



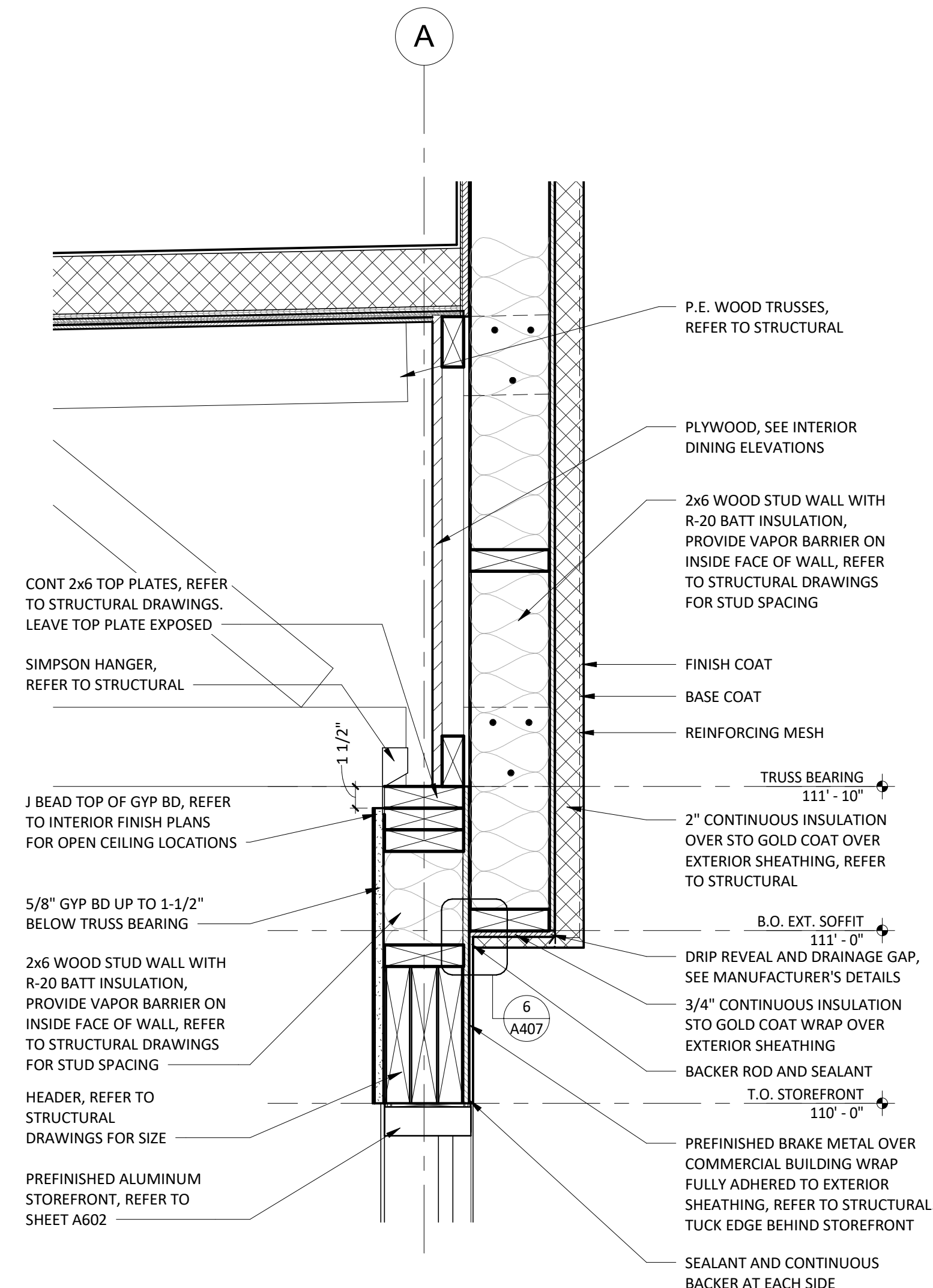
7  
A406  
HEAD DETAIL - PICK-UP WINDOW  
1 1/2" = 1'-0"



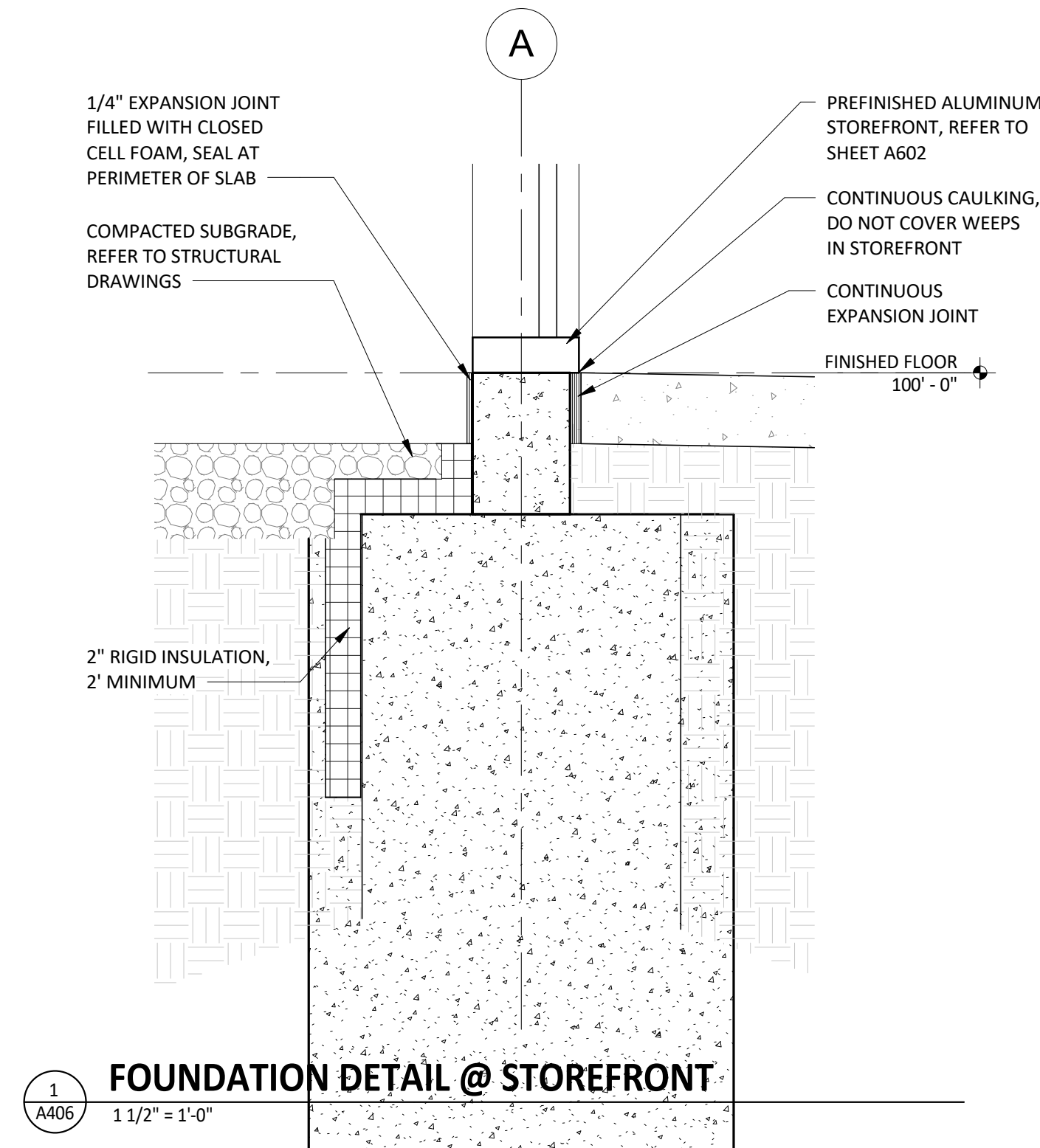
5  
A406  
SILL DETAIL @ PICK-UP WINDOW  
1 1/2" = 1'-0"



2  
A406  
FOUNDATION DETAIL @ METAL PANELS  
1 1/2" = 1'-0"



4  
A406  
SOFFIT DETAIL @ STOREFRONT  
1 1/2" = 1'-0"



1  
A406  
FOUNDATION DETAIL @ STOREFRONT  
1 1/2" = 1'-0"

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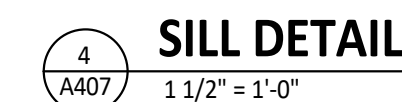
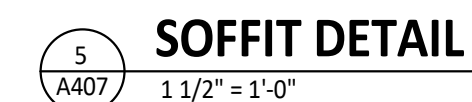
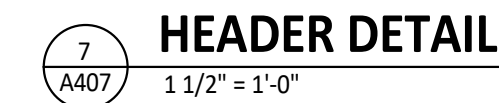
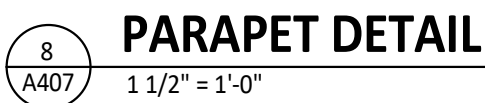
Revisions:

Drawn: DP  
Checked: KM

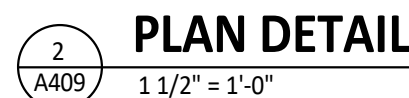
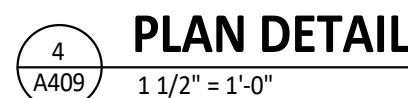
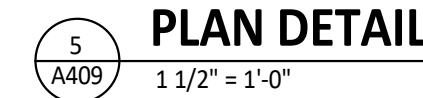
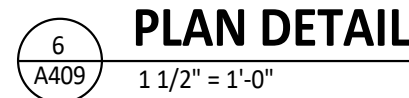
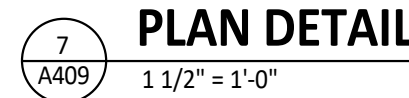
Project No.: SIG001

Contents:

SECTION DETAILS

A407





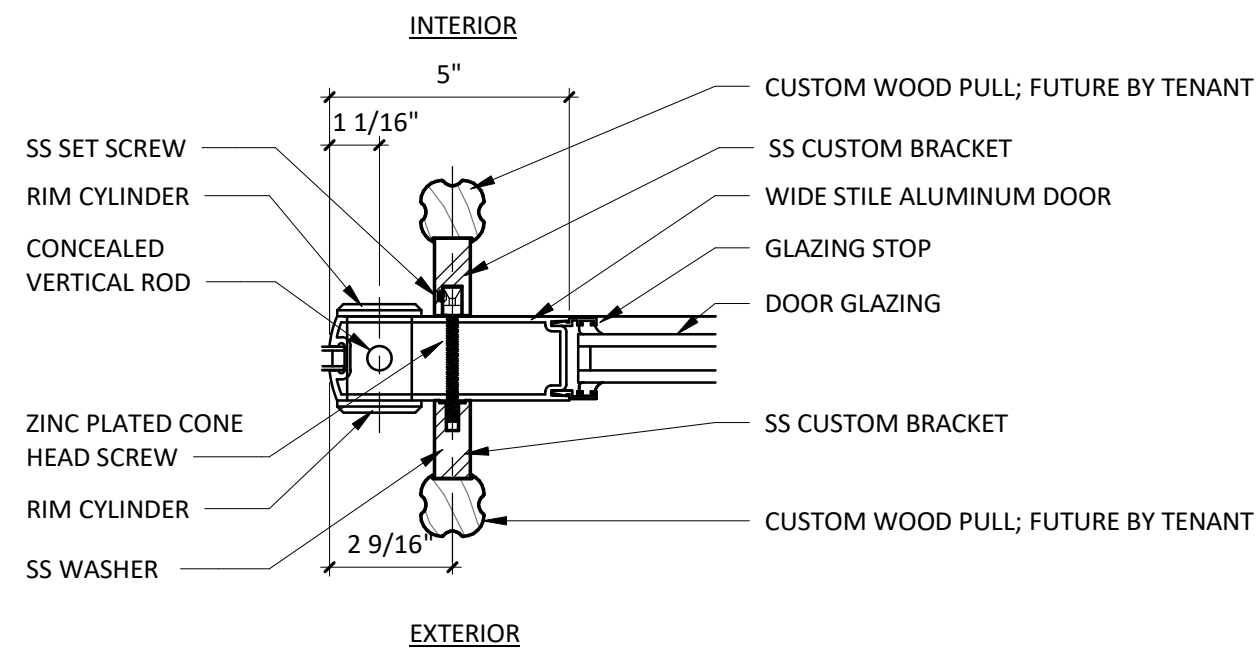
## DOOR SCHEDULE

TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR			DOOR		FRAME		STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
					WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	MATERIAL					
1		NEW	NEW	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1	NEW		1,2,4,5
2		NEW	NEW	SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2A	NEW		1,3,4,5
3		NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6

## REMARK NOTES

- |    |  |
|----|--|
| 1. | DOORS WITH REMARK #1 TO BE KEPT THE SAME   |
| 2. | EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS. |
| 3. | THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER  |
| 4. | USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD  |
| 5. | BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT  |
| 6. | REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.  |

## DOOR HANDLE DETAIL



## HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	TO BE INSTALLED BY TENANT DURING FITOUT
(2)	PULL HARDWARE	TO BE INSTALLED BY TENANT DURING FITOUT
(1)	DEADBOLT	ADAMS RITE, MODEL M51850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-72 (SIZE 72")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL F5SC-200-36 (36" DOOR), OWNER FURNISHED

**SET 2A - ENTRY - SINGLE - EGRESS ONLY - PANIC HARDWARE**

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 4545-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMCO, MODEL SF5C-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

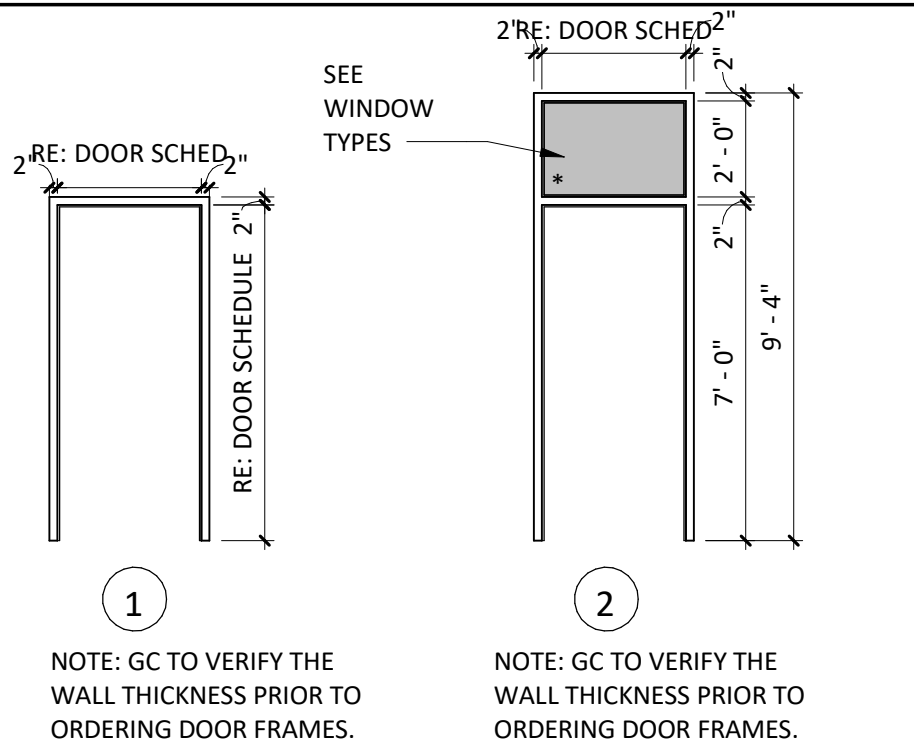
**SET 3 - REAR EXIT - SINGLE**

(1)	HINGE	HAGER, MODEL 780-224HD-83-"CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LIZ-62E
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL 5239A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL D575C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL IV68826D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	EXIT ALARM	TRINE, MODEL 206-3
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

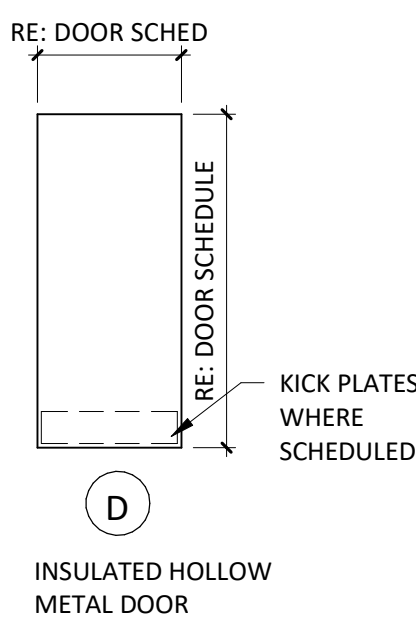
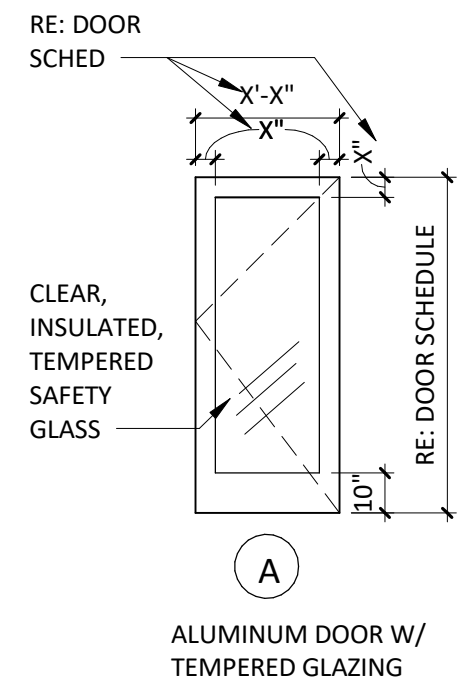
## DOOR NOTES

- |    |  |
|----|--|
| 1. | ALL EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.   |
| 2. | LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NPFA 101 PER THE SPECIFICATIONS.  |
| 3. | ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.  |
| 4. | SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.   |
| 5. | MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.                                |
| 6. | ALL FRAMES, DOORS, AND HARDWARE TO BE FURNISHED BY G.C.  |
| 7. | THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. |
| 8. | ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING   |

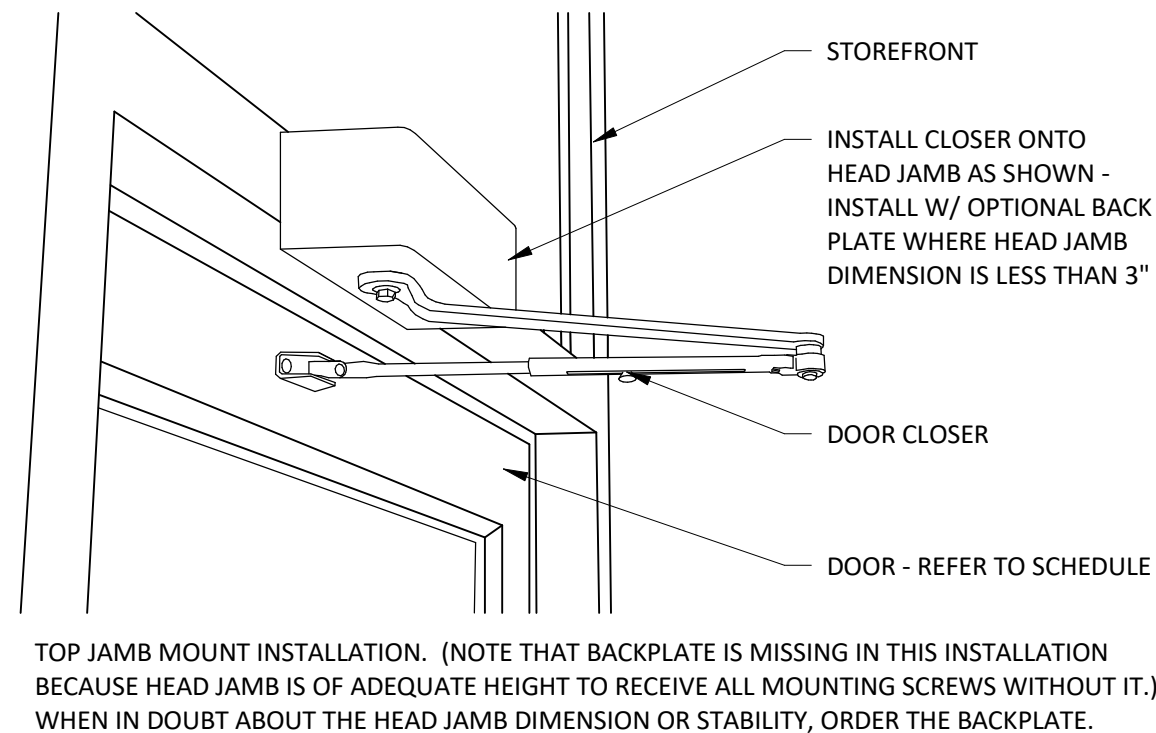
## DOOR FRAMES



## DOOR TYPES



DOOR CLOSER



consultant:

**r e d**

architecture + planning  
589 w. nationwide blvd  
suite b  
columbus, ohio 43215  
tel: 614.487.8770  
fax: 614.487.8771

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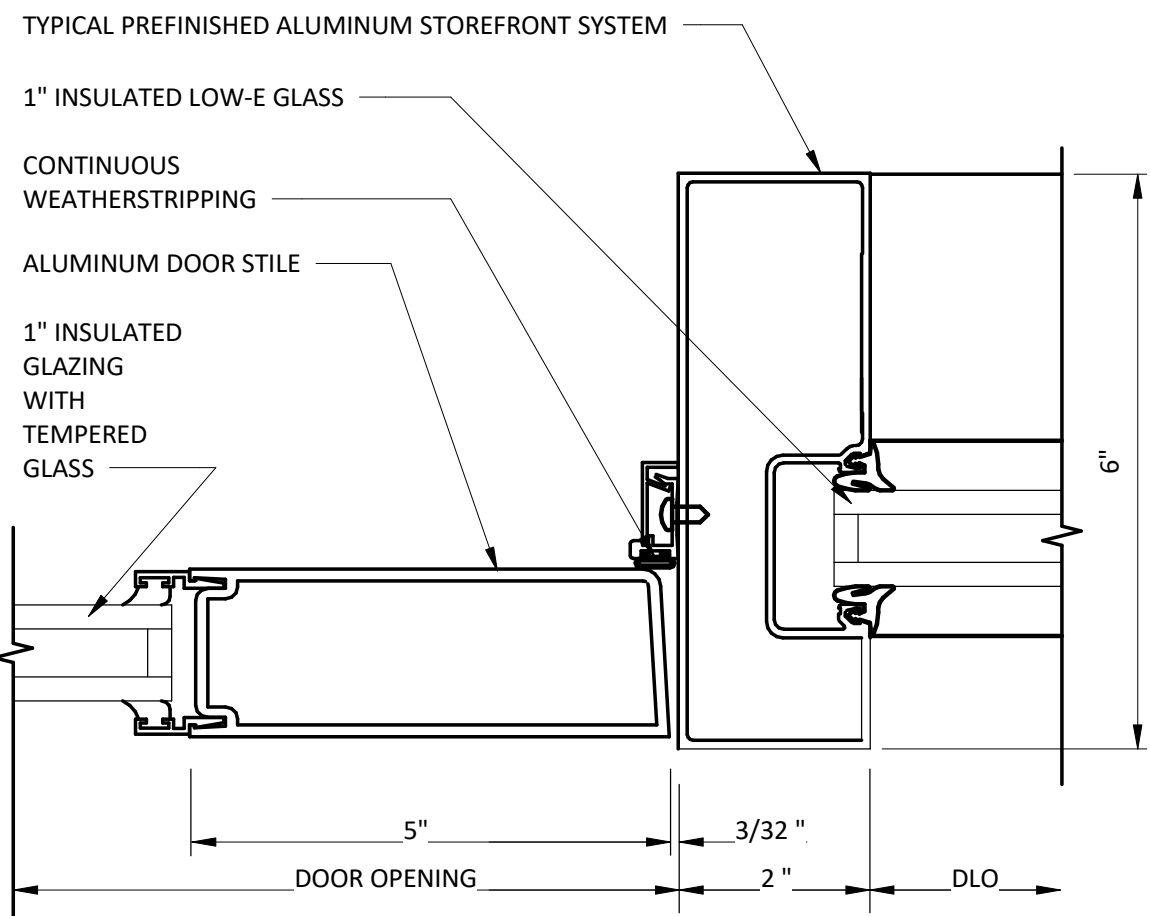
STORE NO.: 0000  
LINCOLN WAY SHELL  
2600 LINCOLN WAY  
MASSILLON, OH 44646

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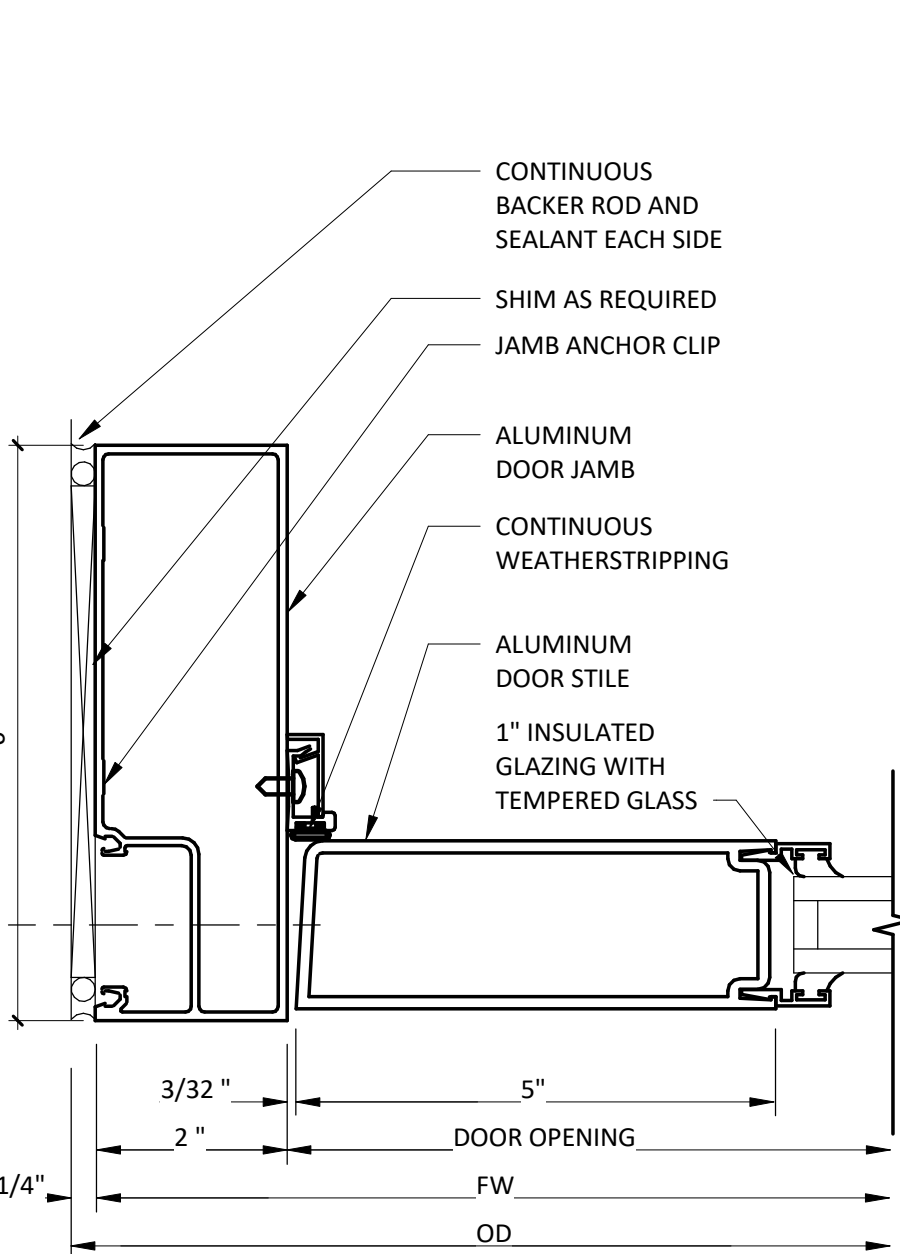
## DOOR & HARDWARE SCHEDULE

# A601

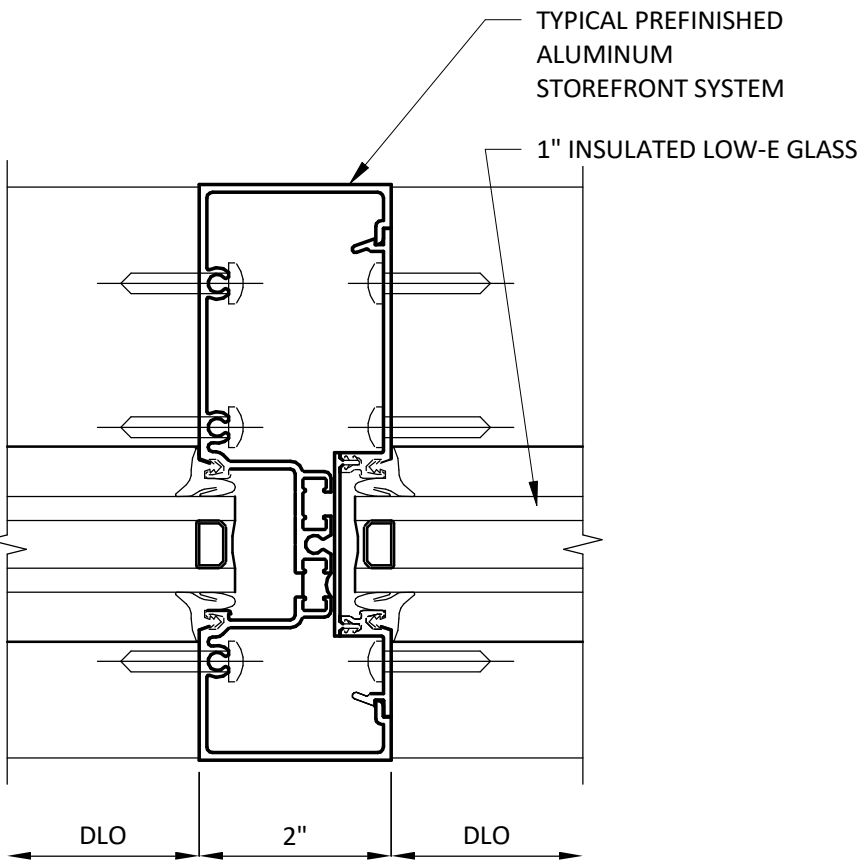
STOREFRONT DETAILS



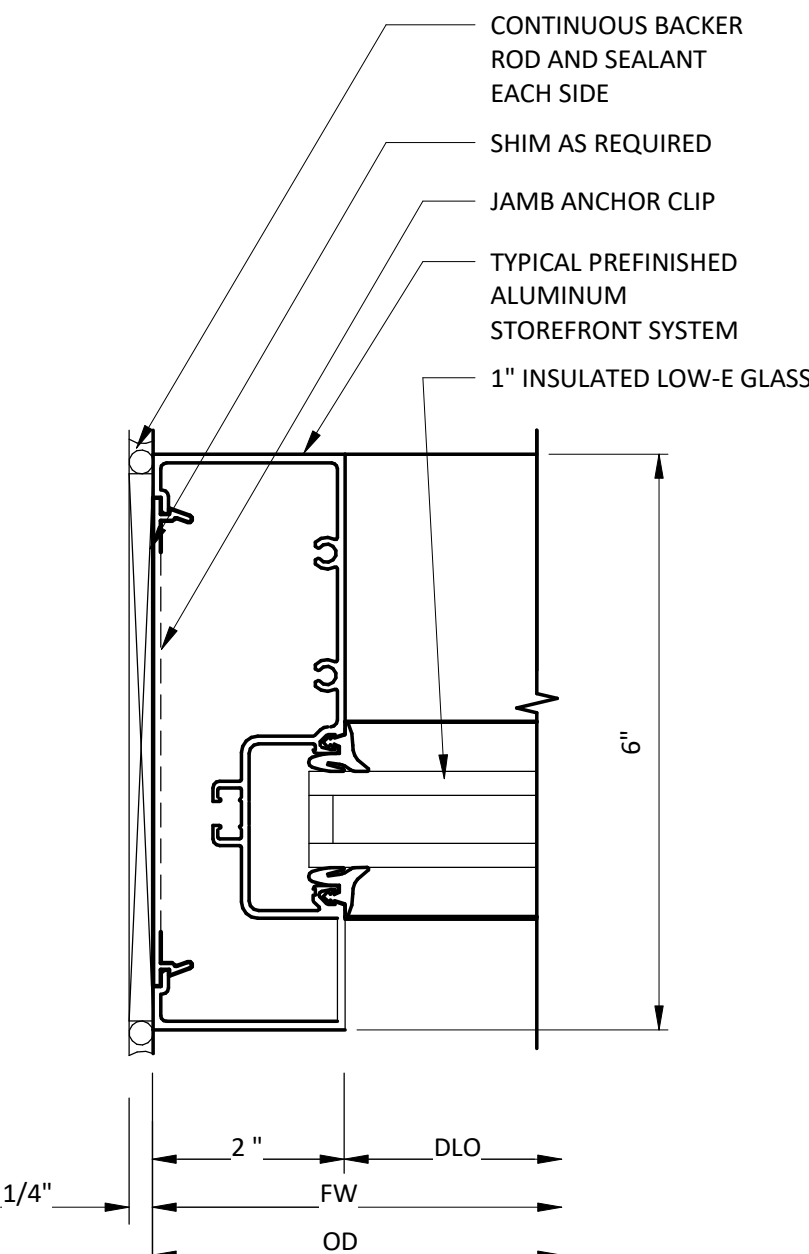
9 A602 STOREFRONT DOOR JAMB DETAIL  
6" = 1'-0"



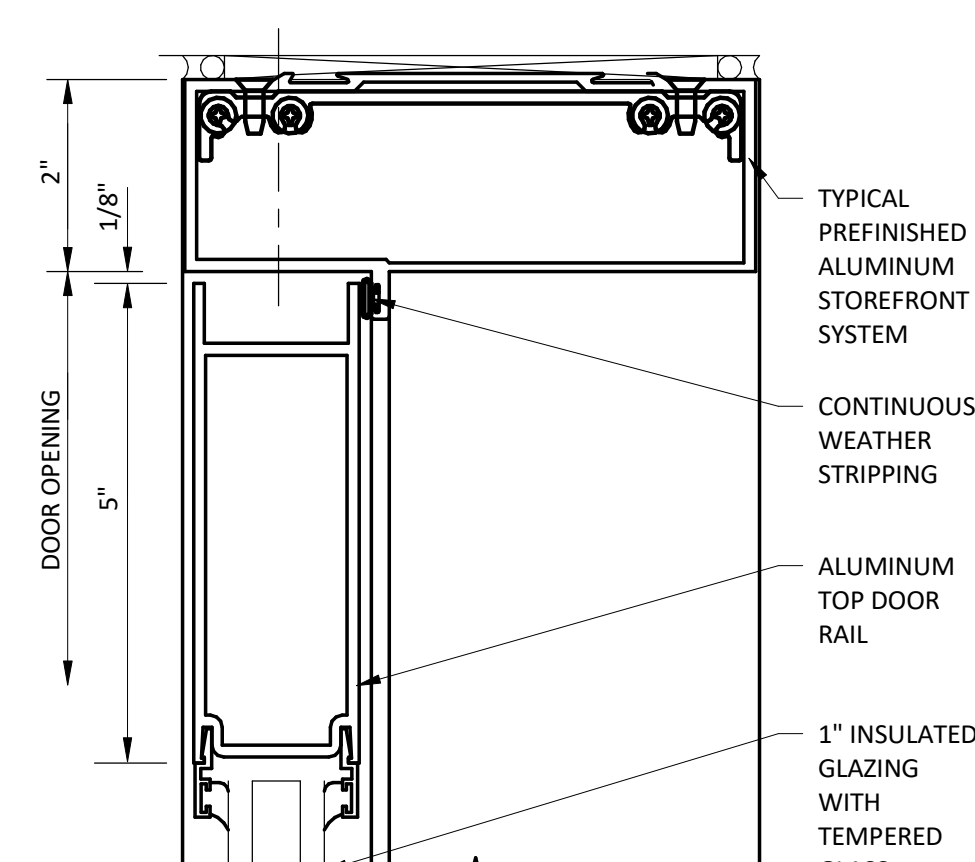
6 A602 STOREFRONT DOOR JAMB DETAIL  
6" = 1'-0"



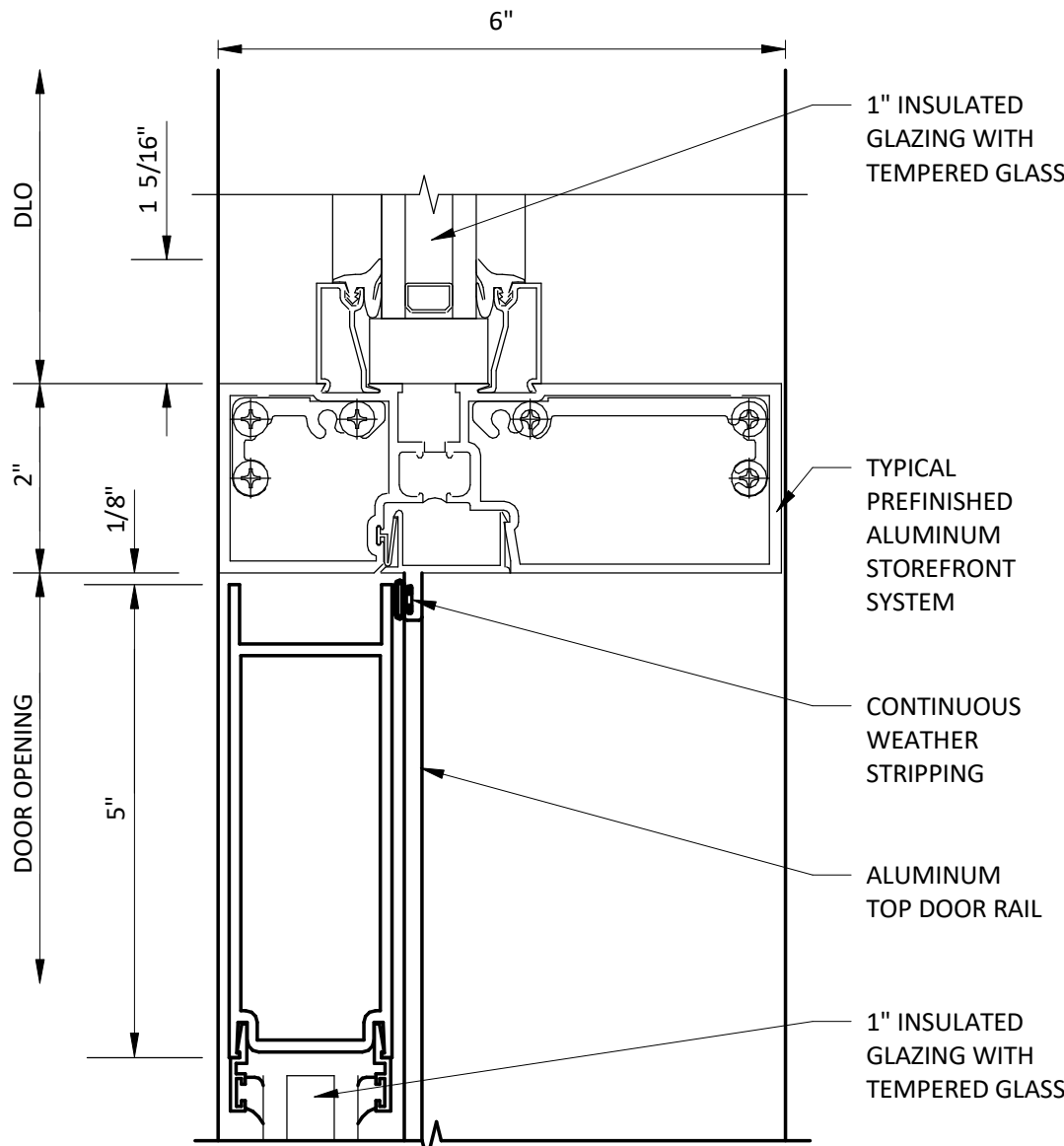
3 A602 STOREFRONT MULLION DETAIL  
6" = 1'-0"



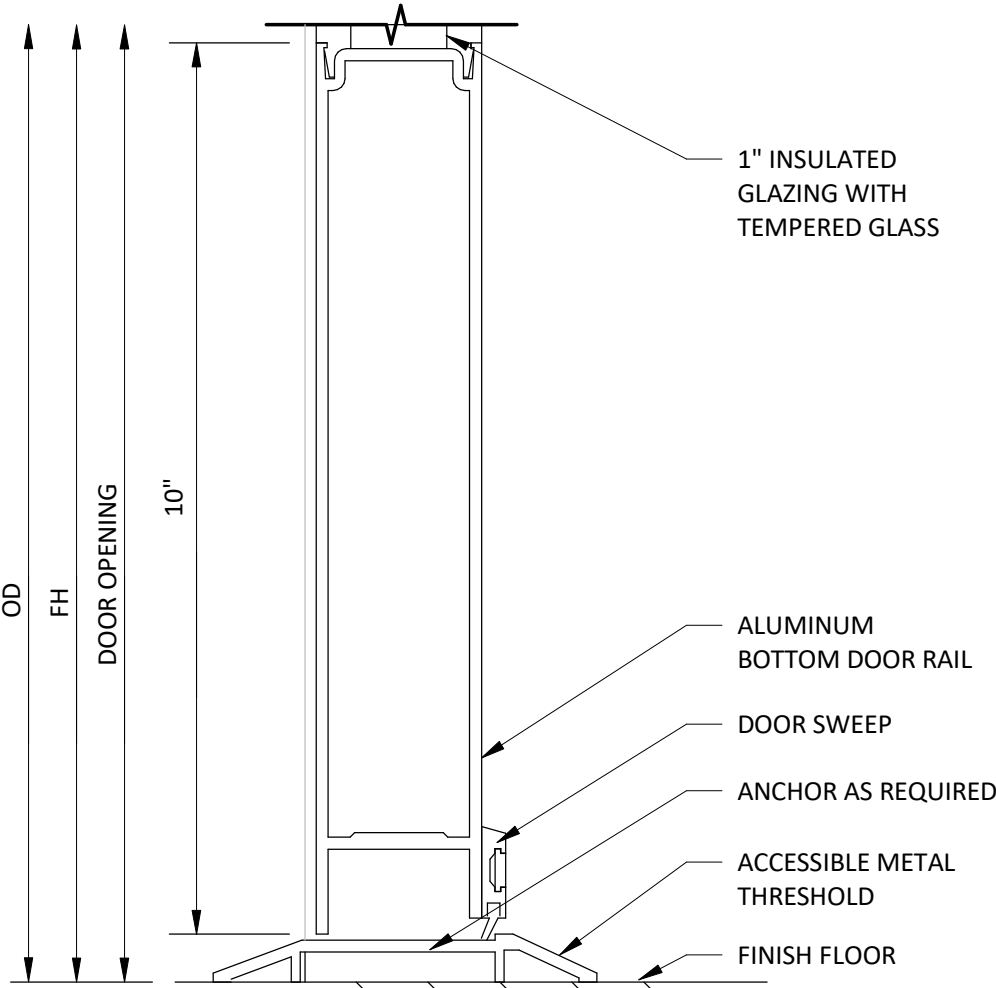
5 A602 STOREFRONT JAMB DETAIL  
6" = 1'-0"



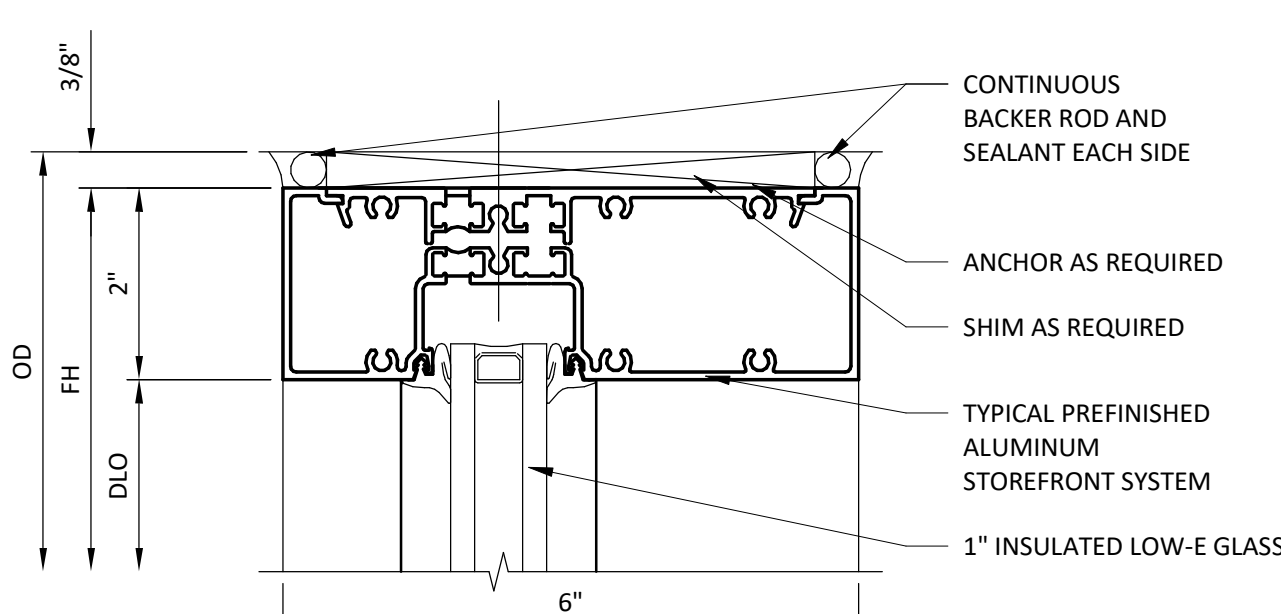
2 A602 STOREFRONT DOOR HEAD DETAIL  
6" = 1'-0"



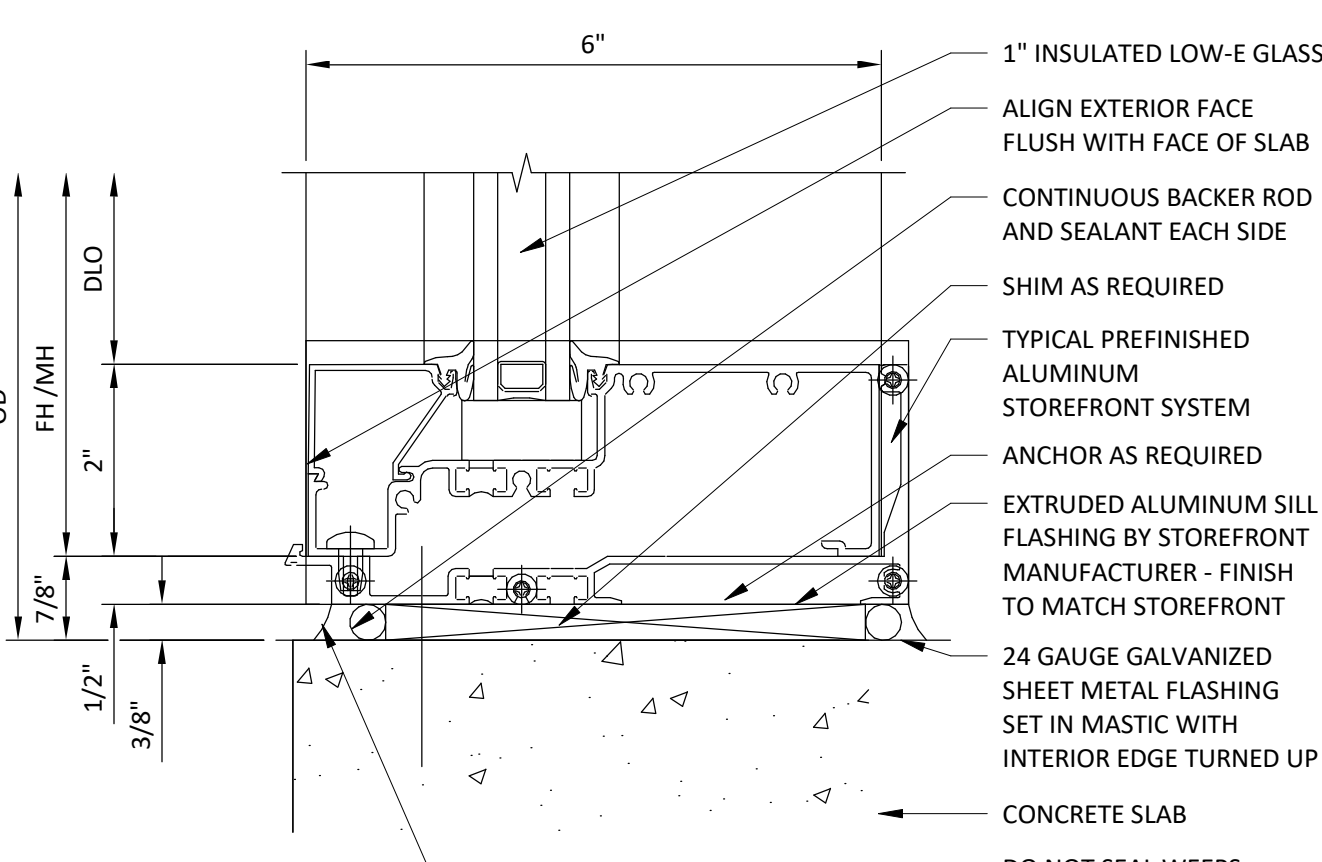
8 A602 STOREFRONT TRANSOM BAR DETAIL  
6" = 1'-0"



7 A602 STOREFRONT THRESHOLD DETAIL  
6" = 1'-0"



4 A602 STOREFRONT HEAD DETAIL  
6" = 1'-0"



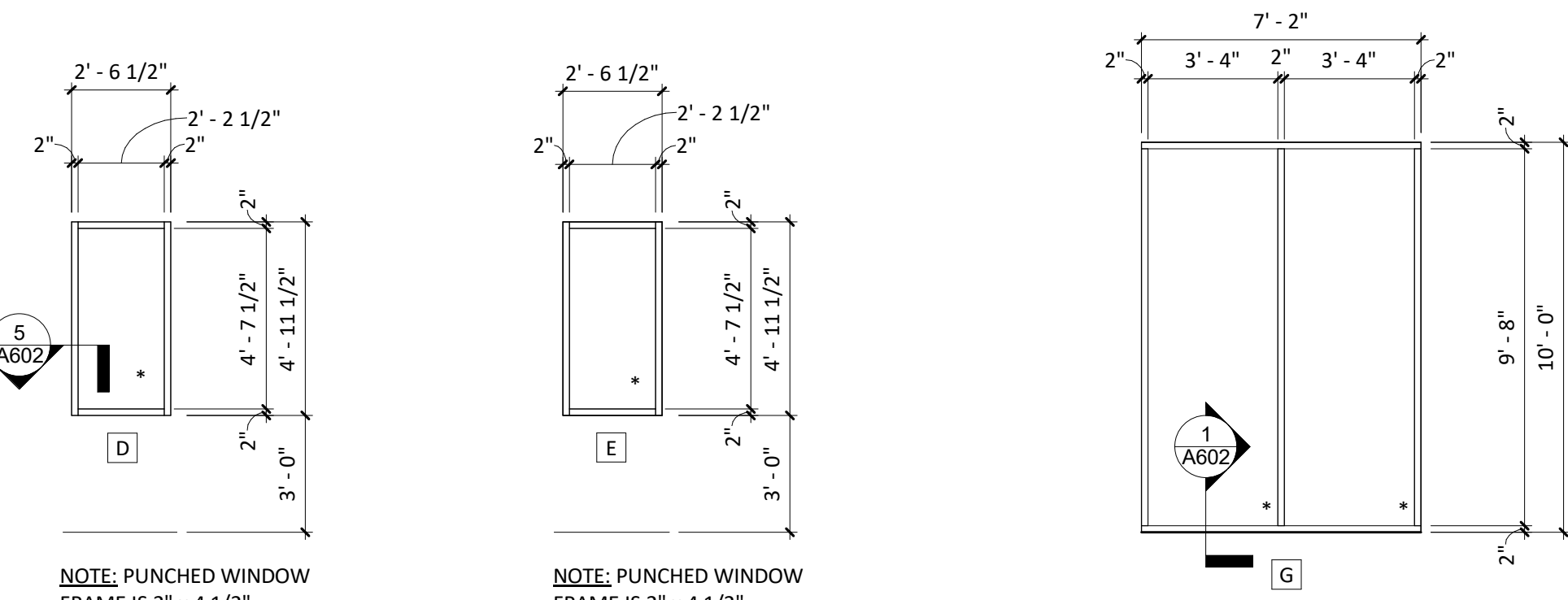
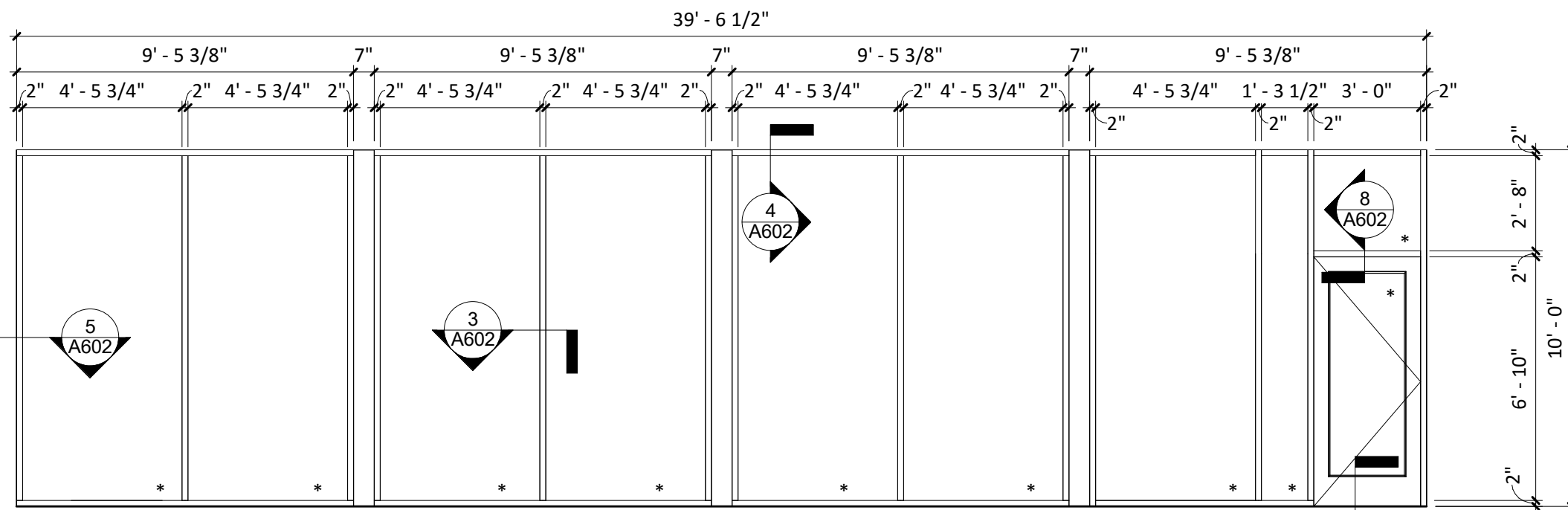
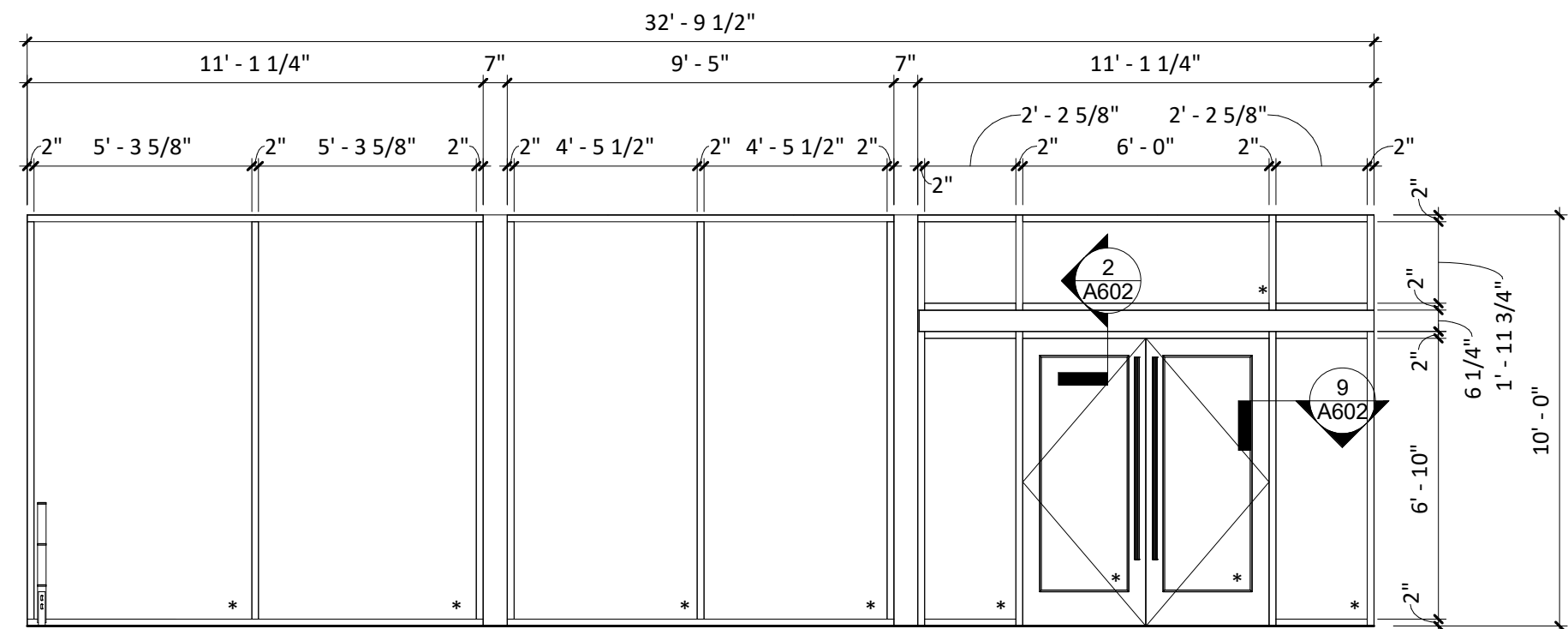
1 A602 STOREFRONT SILL DETAIL  
6" = 1'-0"

GENERAL NOTES

1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "T".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.
5. STOREFRONT SYSTEM IS 2" x 6" NOMINAL DIMENSION; UNLESS NOTED OTHERWISE

STOREFRONT TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



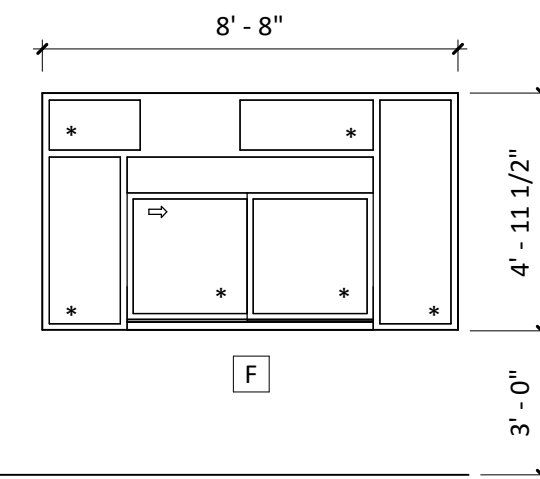
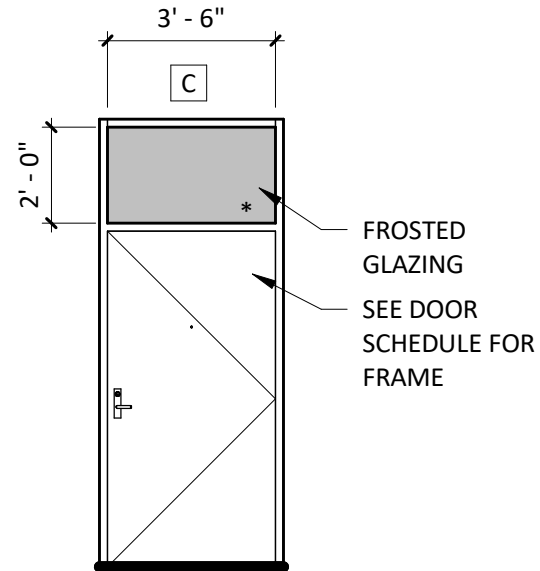
NOTE: PUNCHED WINDOW FRAME IS 2" x 4 1/2" NOMINAL DIMENSION

NOTE: PUNCHED WINDOW FRAME IS 2" x 4 1/2" NOMINAL DIMENSION

NOTE: FULLY AUTOMATIC ELECTRIC PASS-THRU WINDOW

WINDOW TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



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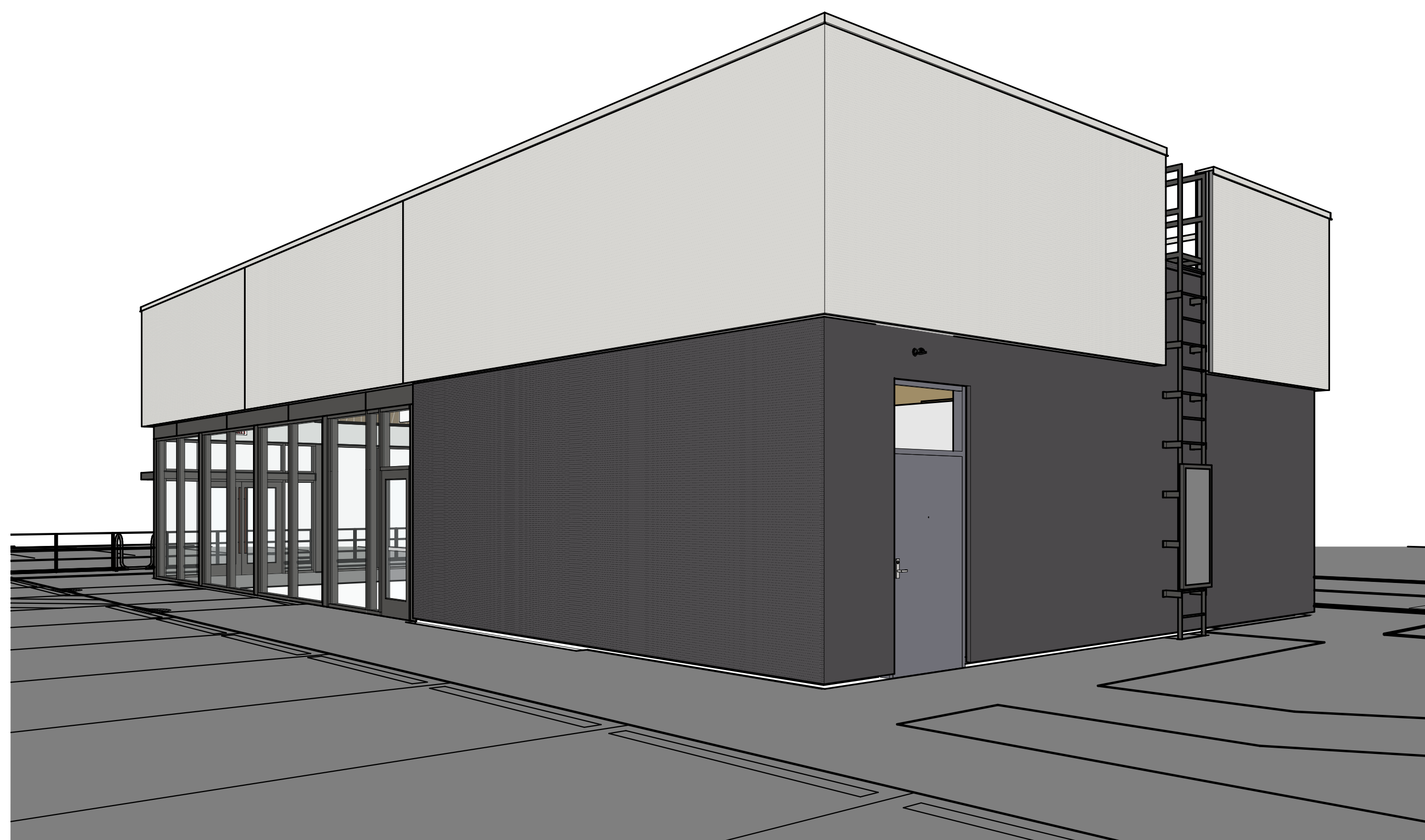
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Checked: KM

Project No.: SIG001

Contents:

STOREFRONT  
DETAILS

A602



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KM

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SIC001

Contents:

## EXTERIOR PERSPECTIVES

A901



	REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS		
	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		
2.	VERIFY ELEVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5.	Prior to PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION			
	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT	—	X
2.	REINFORCING BAR WELDING	—	X
3.	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	—	X
	B. INSPECT SINGLE FASSET FLEET WELDS, MAXIMUM 5/16"	—	X
	C. INSPECT ALL OTHER WELDS	—	X
3.	INSPECT ANCHORS CAST IN CONCRETE	—	X
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	—	X
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST TENSILE TENSILE LOADS	X	—
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN A.	—	X
5.	VERIFY USE OF REQUIRED EQUIPMENT	—	X
6.	PROVE CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	—
7.	INSPECT CONCRETE AND SHORT-TERM PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—
8.	VERIFY MAINTENANCE OF DESIRED CURING TEMPERATURE AND TECHNIQUES	X	—
9.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	X	—

REQUIRED SPECIAL INSPECTIONS AND TESTS OF WOOD CONSTRUCTION		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. FABRICATED LOAD BEARING ASSEMBLIES (TRUSSES/COMPOSITE JOISTS) CONDUCTED ON THE PREMISES OF THE FABRICATORS SHOP.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION		PERFORM	OBSERVE
TYPE			
1.	INSPECTION TASKS PRIOR TO WELDING:		
A.	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	...	X
B.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	...	X
C.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	...	X
D.	MATERIAL IDENTIFICATION (TYPE/GRADE)	...	X
E.	WELDER IDENTIFICATION SYSTEM.	...	X
F.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
•	JOINT PREPARATIONS.	...	X
•	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	...	X
•	CLEANLINESS (CONDITION OF STEEL SURFACES).	...	X
•	TACKING (TACK WELD QUALITY AND LOCATION).	...	X
•	BACKING TYPE AND FIT IF APPLICABLE.	...	X
G.	FIT-UP OF C/P GROOVE WELDS OF HSS T.V., AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):		
•	JOINT PREPARATIONS.	...	X
•	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	...	X
•	CLEANLINESS (CONDITION OF STEEL SURFACES).	...	X
•	TACKING (TACK WELD QUALITY AND LOCATION).	...	X
H.	CONFIGURATION AND FINISH OF ACCESS HOLES.	...	X
I.	FIT-UP OF FILLET WELDS:		
•	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	...	X
•	CLEANLINESS (CONDITION OF STEEL SURFACES).	...	X
•	TACKING (TACK WELD QUALITY AND LOCATION).	...	X
2.	INSPECTION TASKS DURING WELDING:		
A.	CONTROL AND HANDLING OF WELDING CONSUMABLES.		
•	PACKAGING	...	X
•	EXPOSURE CONTROL	...	X
B.	NO WELDING OVER CRACKED TACK WELDS.	...	X
C.	ENVIRONMENTAL CONDITIONS:		
•	WIND SPEED WITH LIMITS	...	X
•	PRECIPITATION AND TEMPERATURE	...	X
D.	WPS FOLLOWED:		
•	SETTINGS ON WELDING EQUIPMENT	...	X
•	TRAVEL SPEED	...	X
•	SELECTED WELDING MATERIALS	...	X
•	SHIELDING GAS TYPE/FLOW RATE	...	X
•	PREHEAT APPLIED	...	X
•	INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	...	X
•	PROPER POSITION (F, V, H OR)	...	X
•	TRAVEL SPEED	...	X
E.	WELDING TECHNIQUES:		
•	INTERPASS AND FINAL CLEANING	...	X
•	EACH PASS WITH PROFILE LIMITATIONS	...	X
•	EACH PASS MEETS QUALITY REQUIREMENTS	...	X
F.	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	...	X
3.	INSPECTION TASKS AFTER WELDING:		
A.	WELDS CLEANED	...	X
B.	SIZE, LENGTH, AND LOCATION OF WELDS	X	...
C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
•	CRACK PROHIBITION	X	...
•	WELD BASE METAL FUSION	X	...
•	CRATER/CROSS SECTION	X	...
•	WELD PROFILES	X	...
•	WELD SIZE	X	...
•	UNDERCUT	X	...
•	POROSITY	X	...
D.	ARC STROKES	X	...
E.	K-AREA	X	...
F.	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	X	...
G.	BACKING REMOVED AND WELDS TACK REMOVED (IF REQUIRED).	X	...
H.	REPAIR ACTIVITIES:		
I.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	...	X
J.	NO PROHIBITED WELDS HAVE BEEN SELECTED WITHOUT THE APPROVAL OF THE EOR.	...	X
K.	NON DESTRUCTIVE TEST FOR COMB ETC JOINT PENETRATION (CJP) WELDS:	...	X
•	UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER.	...	X
4.	INSPECTION TASKS AFTER BOLTING:		
A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	...	X
B.	ANCHOR ROD PLACEMENT		
•	INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.	...	X
6.	INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.		
			X

CONCRETE REINFORCING CLEARANCES/COVER		
( #3 - #11 BARS )		
EXPOSURE CONDITION	MIN. COVER U.N.O.	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	-3/8", + 1"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS #6 AND LARGER BARS	1 1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, BEAMS, COLUMNS, PIERS - TO TIES & STIRRUPS	3/4" 1 1/2"	-1/4", +3/8" -1/4", +1/2"

" " INDICATES TOLERANCE DECREASE TOWARDS MEMBER FACE.  
 "+" INDICATES AWAY FROM MEMBER FACE

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.		1 1/2" CLR. AND GREATER	
#4	3'-1"	2'-4"	3'-1"	2'-4"
#5	3'-10"	3'-0"	3'-10"	3'-0"
#6	4'-8"	3'-7"	4'-8"	3'-7"
#7	7'-6"	5'-9"	6'-9"	5'-2"
#8	9'-3"	7'-1"	7'-9"	5'-11"
#9	11'-2"	8'-7"	8'-8"	6'-8"
#10	13'-6"	10'-4"	9'-10"	7'-6"
#11	15'-10"	12'-2"	10'-11"	8'-4"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING				
4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS				
BAR SIZE	3/4" CLR.		1 1/2" CLR. AND GREATER	
#4	2'-8"	2'-1"	2'-8"	2'-1"
#5	3'-4"	2'-7"	3'-4"	2'-7"
#6	4'-0"	3'-1"	4'-0"	3'-1"
#7	6'-6"	5'-0"	5'-10"	4'-6"
#8	8'-0"	6'-2"	6'-8"	5'-2"
#9	9'-8"	7'-6"	7'-6"	5'-10"
#10	11'-8"	9'-0"	8'-6"	6'-6"
#11	13'-8"	10'-6"	9'-5"	7'-3"

- Consultant:
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Structural Engineering
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5640 Frantz Road, Dublin, OH 43017  
614.766.0066, fax 614.766.1223  
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## SPECIAL INSPECTIONS

S001



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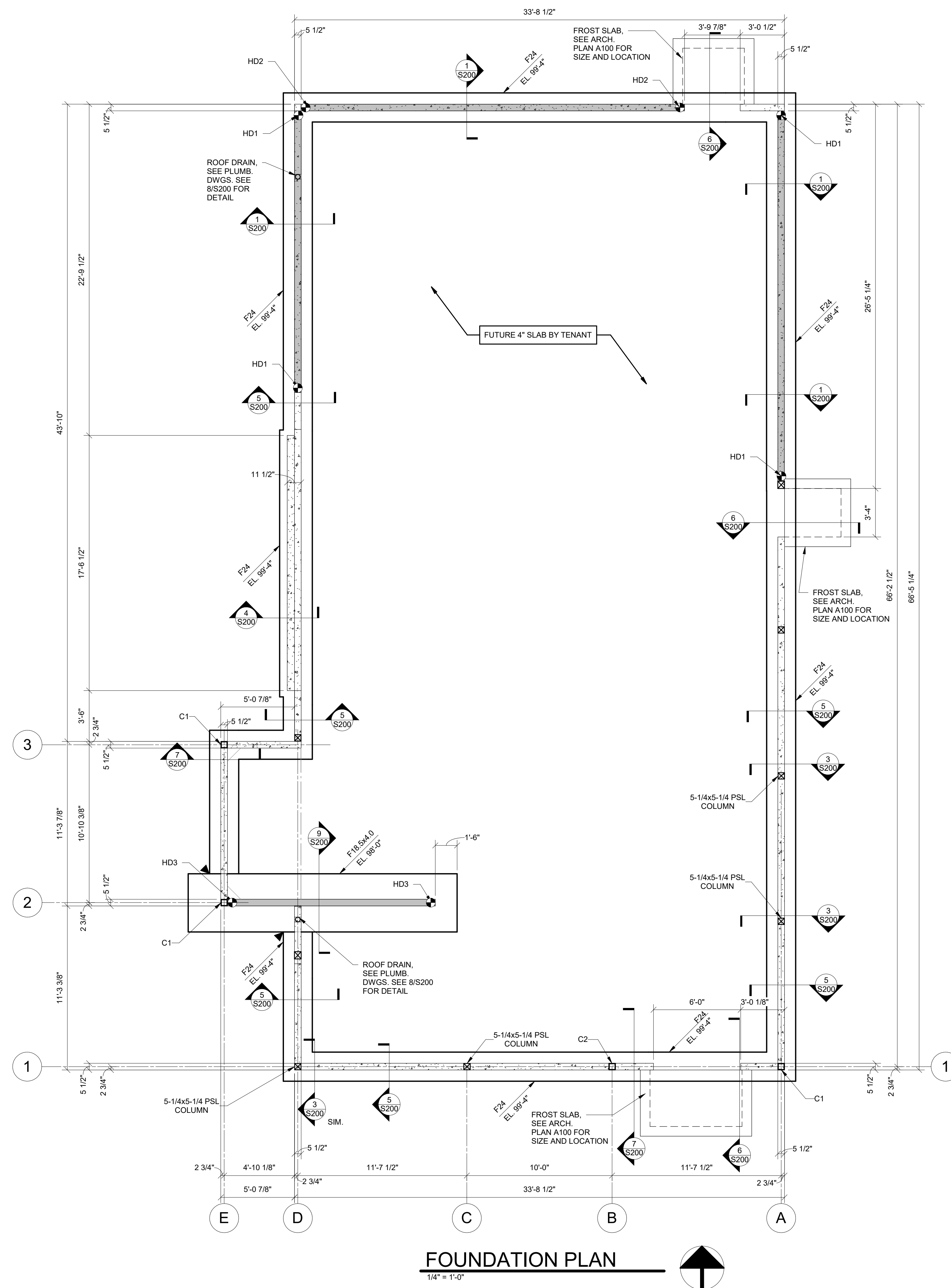
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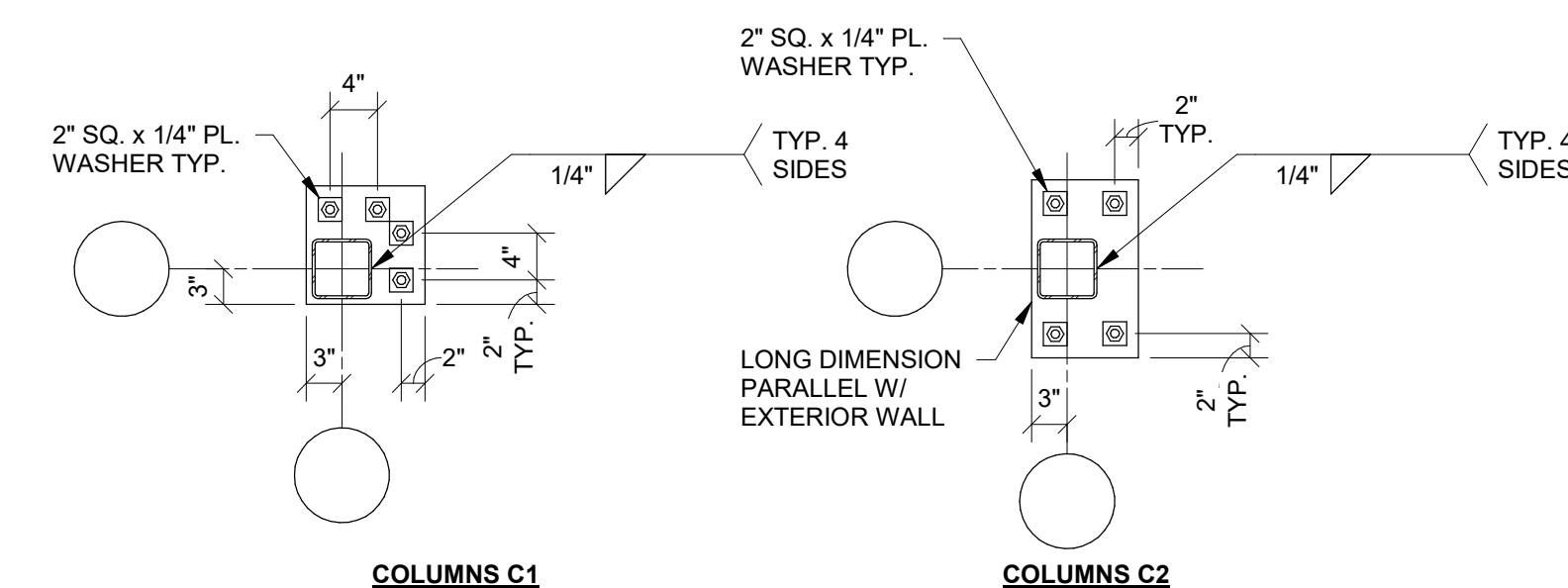
Contents:

FOUNDATION PLAN

\$100



COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	ANCHOR BOLT
C1	HSS5x5x1/4	1" x 10" x 10"	(4)1"Ø x 18 LG. W/ DBL. NUT BOTTOM
C2	HSS5x5x1/4	1" x 15" x 9"	(4)1"Ø x 18 LG. W/ DBL. NUT BOTTOM



SHEARWALL HOLDOWN SCHEDULE		
MARK	HOLDOWN (LOCATE EA. END)	SHEARWALL BOUNDARY...
HD1	HDU4-SDS2.5	2
HD2	HDU5-SDS2.5	2
HD3	HDU14-SDS2.5	6x6


SHEARWALL SCHEDULE NOTES

1. ALL HOLDOWNS INDICATED ARE MANUFACTURED BY SIMPSON STRONG TIE®. FOLLOW ALL MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
2. 'BOUNDARY END STUDS' ARE STUD PACKS OR COLUMNS LOCATED AT THE EACH END OF SHEARWALLS. STUDS SHALL BE OF SAME SIZE AND MATERIAL WITH THE WALL THEY ARE INTEGRAL WITH. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM 'PSL' MATERIAL STANDARDS.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LENGTHS OF ALL WALLS INDICATED AS SHEARWALLS. LOCATE BOUNDARY END STUDS/POSTS AT THE END OF WALLS MARKED AS SHEARWALLS. LOCATE STUDS/POSTS AT ALL WALL INTERSECTIONS AND LOCATION OF STUDS/POSTS.

CONT. WALL FOOTING SCHEDULE			
MARK	WIDTH	THICKNESS	REINFORCING
F24	2'-0"	3'-0"	(2) #5 CONT. TOP & BOTTOM

SPREAD FOOTING SCHEDULE				
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING
F18.5x4.0	4'-0"	18'-6"	3'-0"	(6) #5 TOP & BOTTOM LONG WAY, #5 TOP & BOTTOM @ 12" O.C. SHORT WAY

### FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 2,500 PSF. SEE 5000 FOR REQUIRED SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY ANY REFINED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION ANCHORING. ANCHORING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING EXISTING FILL CONCRETE IN ORDER TO BEAR ON SUITABLE MATERIALS. OVERLAP OVERLAP SHALL BE 12" MINIMUM. REPAIR SHALL BE TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO REINFORCEMENT PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. MAKE FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 36-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATION, SIZE, AND NUMBER OF FLOOR DEPRESSIONS AND SLOPES SHOWS BY ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. VERTICAL LOCATION SHOWN ON FOOTINGS INDICATES ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATIONS/OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATIONS OF TOP OF SLAB OR TOP OF FOOTING WITH THE ELEVATION OF THE FINISHED GRADE.
6. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 5000. WHERE UNDERGROUND UTILITIES ARE LAYED PRIOR TO CONSTRUCTION OF FOUNDATIONS, THEY ARE TO BE ENCASED PER SECTION 45001. SEE SECTION 25001 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WHAT IS LAYED OUT AND FOR THE EXCAVATION.
7. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 15001
8. "DC" INDICATES COLUMN TYPE PER COLUMN SCHEDULE.
9. "SH" INDICATES SHEARWALL HOLDUPPER PER HOLDUP SCHEDULE.
10.  SHADED WALL ABOVE DENOTES SHEARWALL LOCATION. SEE S110 FOR SHEARWALL REQUIREMENTS.
11. DENOTES STEP IN FOUNDATIONS. SEE DETAIL 12/5002 FOR TYPICAL STEP DETAIL.
12. SEE SHEET 9000 FOR GENERAL STRUCTURAL INFORMATION.



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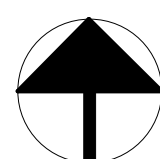
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Contents:

## ROOF FRAMING PLAN

S110



SHEAR WALL SCHEDULE							
MARK	SHEATHING PANEL	PANEL APPLICATION	SHEATHING PANEL FASTENING			SOLE PLATE ANCHORAGE	ADDITIONAL REQUIREMENTS
			FASTENER	PANEL EDGES	PANEL FIELD		
SW1	7/16" APA RATED	ONE SIDE	8d COMMON	6"	12"	5/8"ø ANCHOR BOLTS @ 48" O.C.	
SW2	7/16" APA RATED	ONE SIDE	8d COMMON	4"	12"	5/8"ø ANCHOR BOLTS @ 48" O.C.	
SW3	7/16" APA RATED	EACH SIDE	8d COMMON	3"	12"	5/8"ø ANCHOR BOLTS @ 12" O.C.	(13) ANCHOR BOLTS MIN.

**SHEARWALL SCHEDULE NOTES:**

1. APA RATED SHEATHING INCLUDES PLYWOOD OR ORIENTED STRAND BOARD (OSB) MATERIALS AS RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA).
2. ALL PANEL EDGES SHALL BE LOCATED ON STUDS, BLOCKING, BLOCKING LAID FLATWAYS AGAINST SHEATHING, PLATES, OR RIM BOARD.
3. FASTENER SUBSTITUTIONS ARE NOT PERMITTED, UNLESS APPROVED ENGINEER REVIEW IS COMPLETED AT CONTRACTOR'S EXPENSE.
4. PROVIDE SIMPSON BPS58-6 PLATE WASHERS AT ALL SILL PLATE ANCHORS ATTACHING BOTTOM OF SHEAR WALL TO FOUNDATION OR CONCRETE SLAB. NEAREST EDGE OF PLATE WASHERS SHALL BE LOCATED NO FARTHER THAN 1/2-INCH FROM INSIDE FACE OF SHEAR WALL SHEATHING.
5. SEE HOLD DOWN SCHEDULE FOR SHEARWALL BOUNDARY STUDS TO BE LOCATED ON EACH END OF WALL.
6. COORDINATE SOLE PLATE ANCHORAGES WITH TYPICAL CONSTRUCTION DETAILS INDICATED THROUGHOUT STRUCTURAL DRAWINGS.
7. ALL SHEARWALL TOP PLATES MUST BE A MINIMUM OF TWO IN NUMBER, HAVE STAGGERED SPLICED LOCATIONS, AND OCCUR OVER STUD LOCATIONS. SEE STRUCTURAL DETAILS FOR TRIPLE TOP PLATE REQUIREMENTS, IF ANY. SEE 9/5002 FOR TYPICAL TOP PLATE SPLICING DETAIL.
8. CAST-IN-PLACE (CIP) ANCHORS SHALL BE EMBEDDED IN CONCRETE A MINIMUM OF 6".

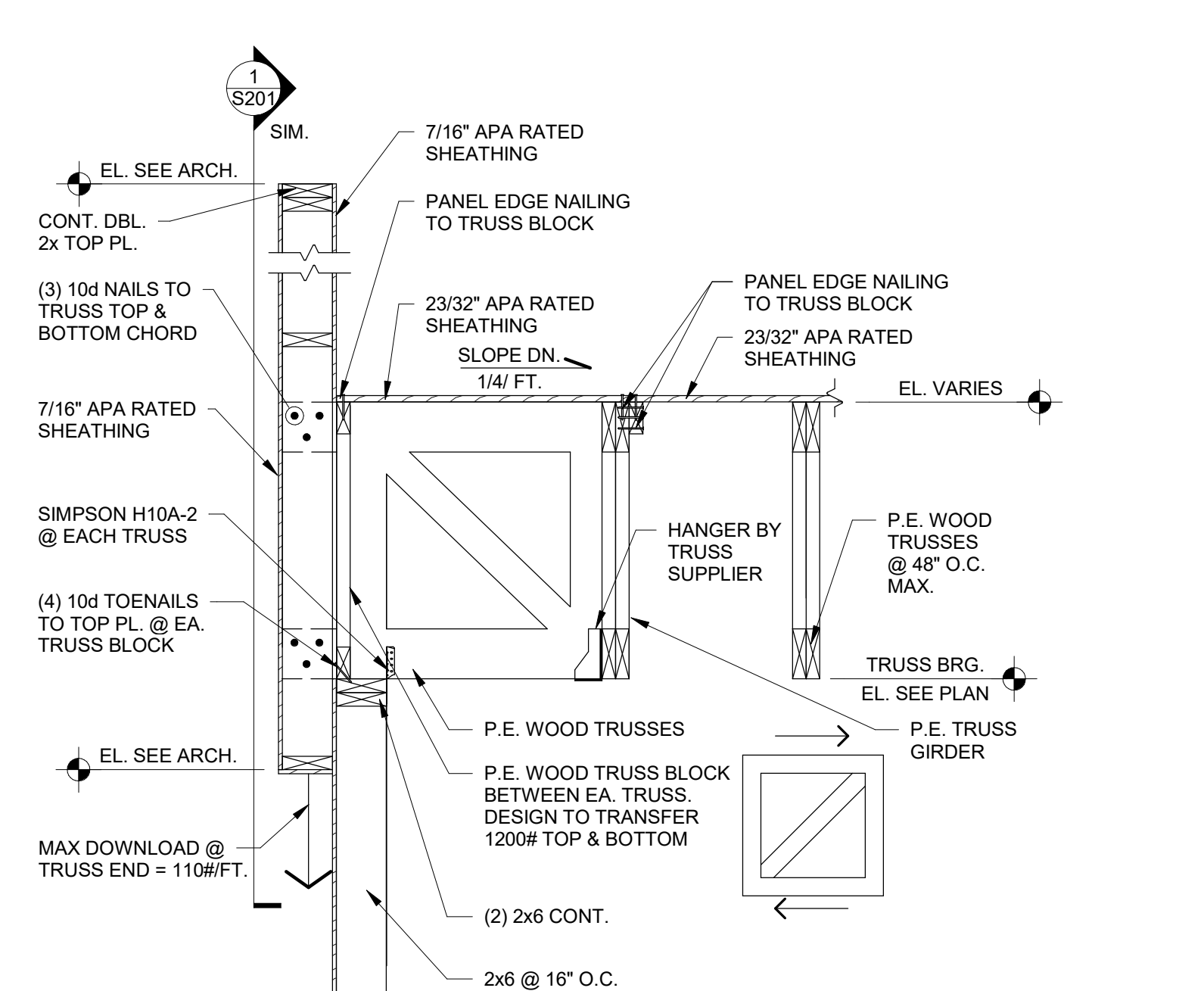
WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x8	(1) 2x	(2) 2x	
H2	(3) 1.75" x 9.25" LVL	(2) 2x	(2) 2x	

HEADER SCHEDULE NOTES:	(1)	(2)	(3)
1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.			
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.			
3. SEE SECTION 2/S202 FOR WOOD HEADERS SUPPORTED BY STEEL COLUMNS.			
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBE DESIGN VALUES.			

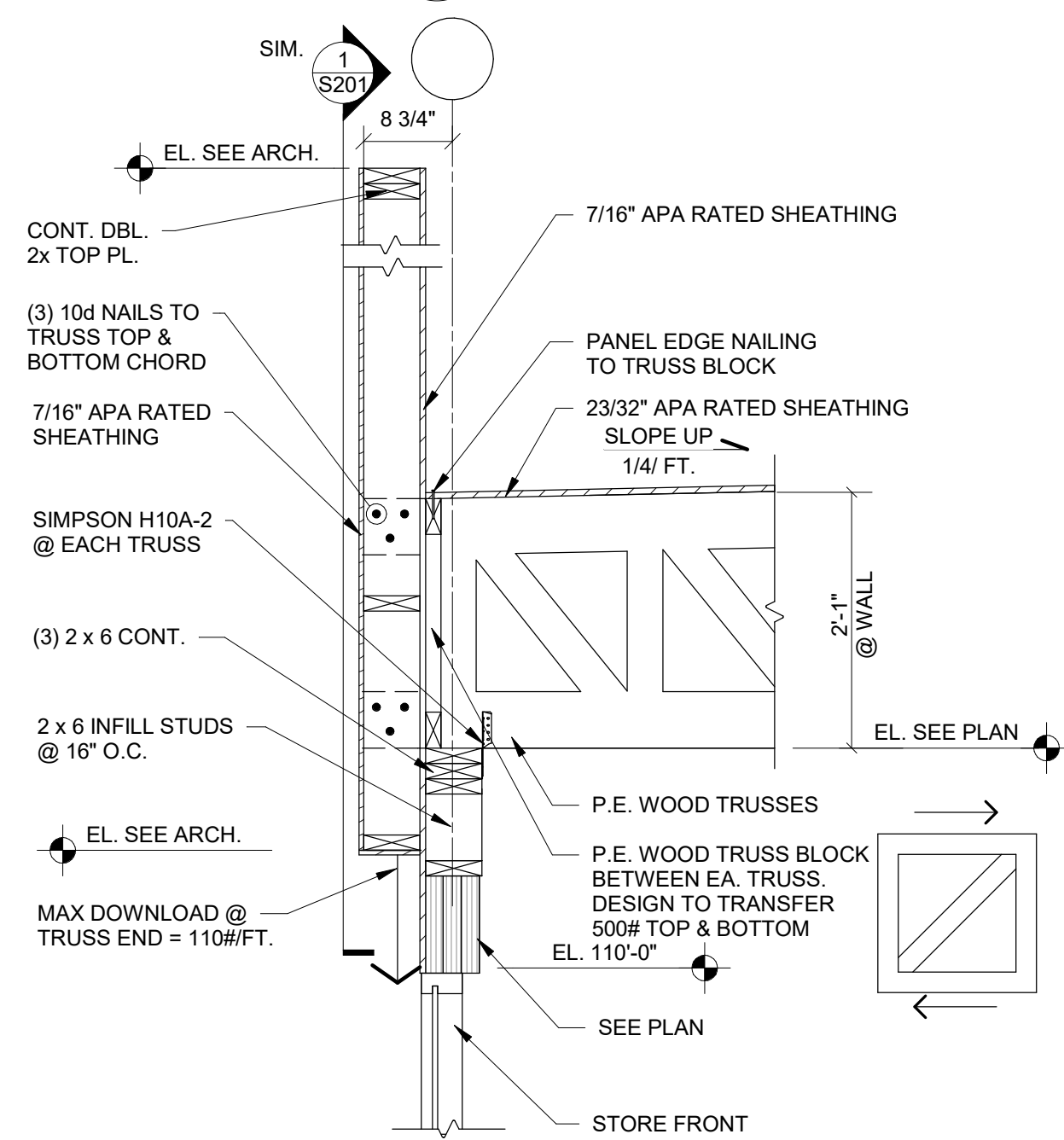
ROOF FRAMING NOTE

1. DESIGN LIVE LOADS:
- |                       |                |
|-----------------------|----------------|
| FLAT ROOF LIVE        | 20 PSF         |
| FLAT ROOF SNOW        | 30 PSF + DRIFT |
| WIND (ASD NET UPLIFT) | 15 PSF         |
| MECHANICAL LIVE       | AS SHOWN       |
2. ROOF CONNECTION:
- 3/4" NOMINAL AREA SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING WITH (3) PANEL CLIPS PER TRUSS. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES SNOW DRIFT ROOF LOADING. WOOD TRUSSES ARE TO BE DESIGNED TO ACCOMMODATE ADDITIONAL LOADING.
4. INDICATES FUTURE ROOF OPENING. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT BEFORE PROCEEDING IF OPENINGS CANNOT BE FIT BETWEEN FRAMING MEMBERS.
5. INDICATES FUTURE TENANT MECHANICAL LOAD SUPPORTED ON ROOF. COORDINATE FUTURE SIZE, WEIGHT, LOCATION AND SUPPORT REQUIREMENTS WITH THE ARCHITECTURAL MECHANICAL CONTRACTOR. TOLERANCE FOR LOCATION OF ACTUAL LIFT IS 3 FEET IN ANY DIRECTION FROM THE INDICATED LOCATION ON THE STRUCTURAL DRAWINGS. WOOD TRUSSES ARE TO BE DESIGNED TO ACCOMMODATE LOADING.
6. TRUSS BEARING ELEVATION  $\pm 111'-0"$  UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" TOP OF FIRST FLOOR SLAB ON GRADE.
7. SEE SHEET S100 FOR COLUMBIA SCHEDULE.
8. INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 718022 AND W5022 FOR STANDARD HEADER CONNECTION.
9. INDICATES THE NUMBER OF 2x4 WOOD STUDS REQUIRED TO CREATE A STUD COLUM SUPPORT UNDER ROOF OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) STUDS AT ALL BEARS AND GIRDERS UNLESS NOTED OTHERWISE.
10. INDICATES WOOD FRAMED SHEARWALL PER SCHEDULE.
11. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
12. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



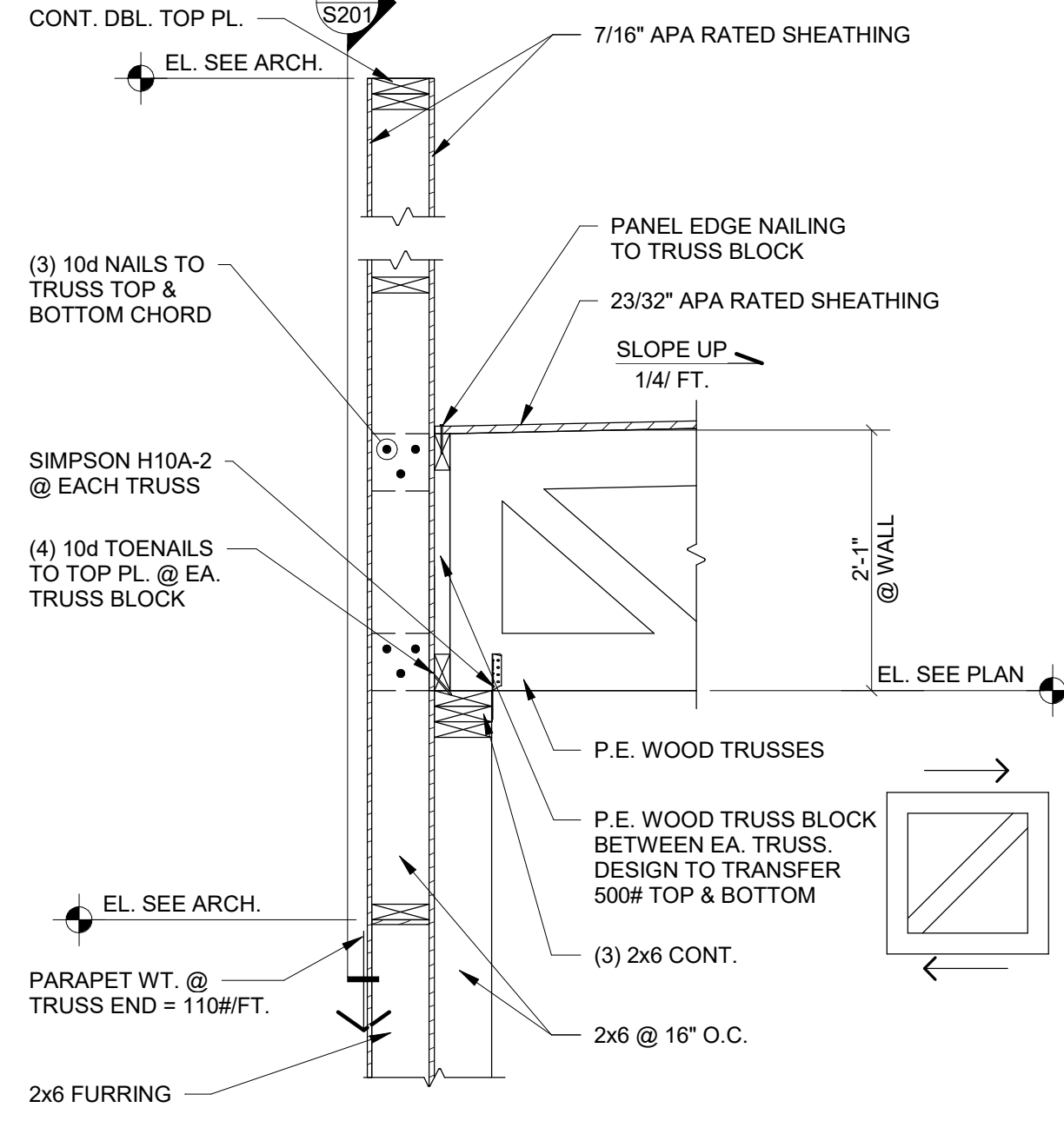


## SECTION

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


SECTION

8



10

$$3/4'' = 1'-0''$$

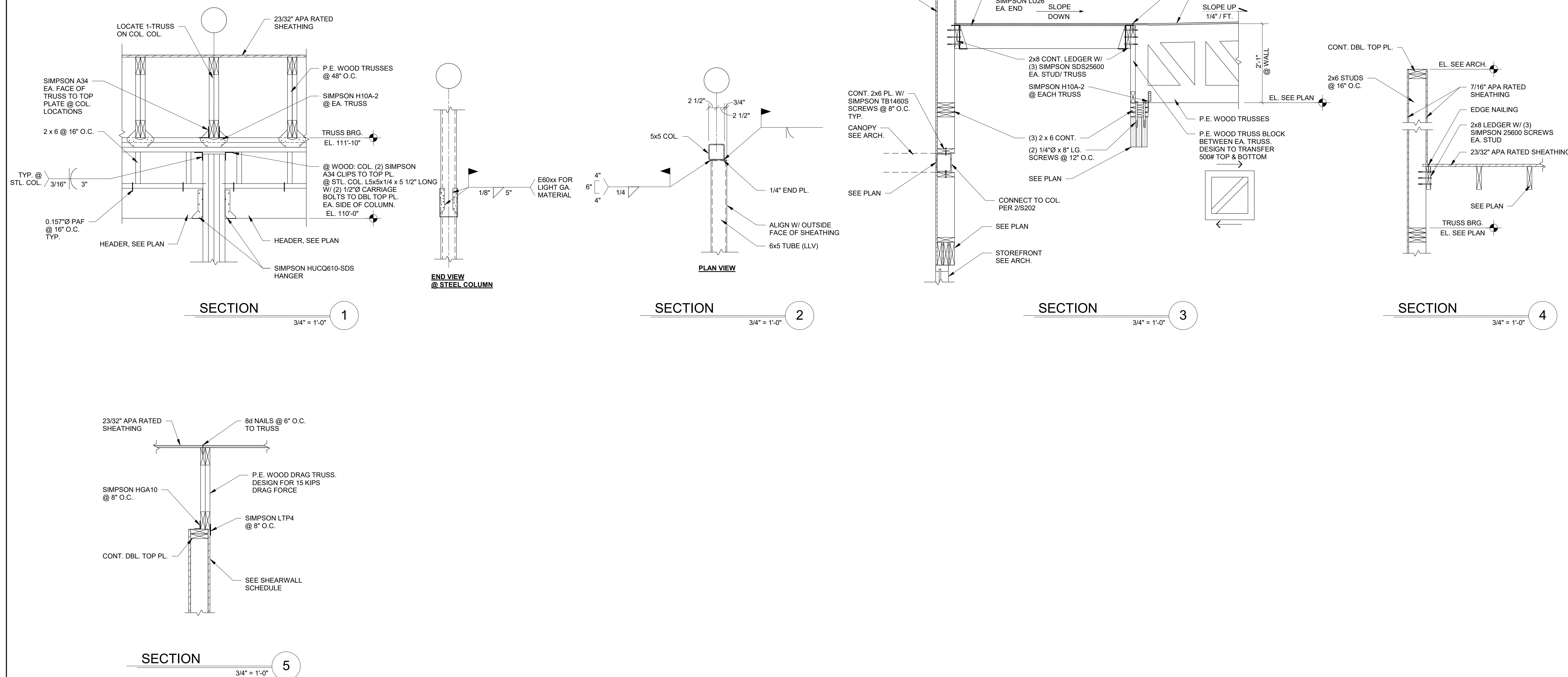
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## FRAMING DETAILS

S202



— SAN —	SANITARY		BALANCING VALVE
— GW —	GREASE WASTE		BALL VALVE
— STM —	STORM		CONNECT TO EXISTING
— · — · — · —	DOMESTIC COLD WATER		PIPE TURNED UP
— · — · — · —	DOMESTIC HOT WATER		PIPE TURNED DOWN
— G —	NATURAL GAS		FLOOR PENETRATION MARKER
--- V ---	VENT		EXISTING SANITARY



A. ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH STATE, CITY & LOCAL CODE REQUIREMENTS.

B. ALL PLUMBING MUST BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL PLUMBING CODE IN THE PRESENCE OF THE PLUMBING INSPECTOR.

C. THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS STUBBED INTO TENANT SPACE PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.

D. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.

E. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.

F. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.

G. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.

H. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.

I. MINIMUM UNDERGROUND SANITARY SEWER PIPE SIZE SHALL BE 4". MINIMUM SLOPE OF UNDERGROUND SANITARY WASTE PIPING SHALL BE 1/8" PER FOOT FOR PIPING 3" AND LARGER. MINIMUM SLOPE OF UNDERGROUND GREASE WASTE PIPING AND SANITARY WASTE PIPING 2-1/2" AND SMALLER SHALL BE 1/4" PER FOOT.

J. GENERAL CONTRACTOR SHALL COORDINATE WATER AND GAS METER LOCATIONS AND INSTALLATIONS WITH TENANT REQUIREMENTS, LOCAL AUTHORITIES AND CIVIL DRAWINGS.

K. FUEL GAS PIPING, VENTING SYSTEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE INTERNATIONAL FUEL GAS CODE.

L. CAST IRON PIPE SLEEVE WITH LINK SEAL SHALL BE USED FOR ALL PIPING PASSING THROUGH A FOUNDATION WALL AND SLAB ON GRADE.

M. COORDINATE UNDERGROUND PIPING WITH WALL AND COLUMN FOOTINGS AND GRADE BEAMS.

N. PLUMBING CONTRACTOR TO REMOVE FROM THE SITE ANY SURPLUS EXCAVATION.

O. THE REQUIREMENTS AND LOCATION OF THE WATER METER, THE WATER METER REMOTE READER AND WIRING PROVISIONS SHALL BE DETERMINED BY LOCAL WATER AUTHORITY.

P. SHUT OFF VALVES ARE REQUIRED ON BOTH SIDES OF WATER METERS.

Q. SCOPE AND JET EXISTING SANITARY LINES PRIOR TO CONSTRUCTION AND AFTER COMPLETION. VERIFY ALL TIE-IN POINTS FOR SANITARY PIPING PRIOR TO CONSTRUCTION. IF ANY ISSUES ARISE, CONTACT THE ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY.

R. VERIFY EXACT SIZE AND LOCATION OF EXISTING SANITARY AND SUPPLY MAINS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCY ARISES, CONTACT THE ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY.

1. PROVIDE 1-1/2" UNDERGROUND WATER SERVICE FROM 5'-0" OUTSIDE BUILDING WALL. CAPACITY SHALL BE A MINIMUM OF 45 GPM AT 60 PSI. PROVIDE NEW 1-1/2" METER AND BACKFLOW PREVENTER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL AUTHORITY REQUIREMENTS. PROVIDE 3/4" IRRIGATION LINE DOWNSTREAM OF METER AND BACKFLOW PREVENTION AND CAP FOR FUTURE CONNECTION BY TENANT. COORDINATE EXACT LOCATION IN FIELD PRIOR TO CONSTRUCTION. REFER TO DETAILS ON SHEET P400 FOR FURTHER INFORMATION.
2. 4" OVERFLOW (SECONDARY) STORM DRAIN DISCHARGE TO DAYLIGHT AT 12" A.F.F. PROVIDE WALL MOUNTED DISCHARGE NOZZLE (DN-1) WITH REMOVABLE STAINLESS STEEL SCREEN.
3. PROVIDE 4" SANITARY WASTE AS INDICATED FOR TENANT CONNECTION. STUB 1'-0" AFF WITH AN INVERT OF AT LEAST 48" BFF.
4. PROVIDE 4" GREASE WASTE AS INDICATED FOR TENANT CONNECTION. STUB 1'-0" AFF WITH AN INVERT OF AT LEAST 48" BFF.
5. PROVIDE CODE COMPLIANT 1,500 GALLON GREASE INTERCEPTOR. INSTALL PER DETAIL ON SHEET P400. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION. REFER TO DETAIL ON SHEET P400 FOR FURTHER INFORMATION.
6. PROVIDE 3" VENT FROM GREASE WASTE INLET PIPING AND A 3" VENT FROM GREASE INTERCEPTOR AND RUN INDEPENDENTLY TO 1'-0" AFF INSIDE BUILDING PRIOR TO TYING TOGETHER. RISE 3" COMBINED VENT IN WALL AND OFFSET AT UNDERSIDE OF ROOF STRUCTURE AND PROVIDE A 3" VTR. REFER TO DETAIL ON SHEET P400. COORDINATE EXACT LOCATION WITH TENANT.
7. NATURAL GAS SERVICE LINE AND METER PROVIDED BY LOCAL GAS PROVIDER. COORDINATE WITH COMPANY TO LOCATE SERVICE REGULATOR RELIEF VENT IN COMPLIANCE WITH CODE CLEARANCES. METER OUTLET PRESSURE SHALL BE NO LESS THAN 7" W.C. WITH A MINIMUM CAPACITY OF 1600 CFH. SITE CONTRACTOR TO PROVIDE GAS PIPING BELOW GROUND FROM METER TO LOCATION SHOWN.
8. 6" SANITARY WASTE SEWER. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
9. PROVIDE 3" NATURAL GAS PIPING FROM SITE CONTRACTOR INTO BUILDING AND CAP.
10. SEE CIVIL DRAWINGS FOR CONTINUATION.
11. CURB STOP FOR DOMESTIC WATER SERVICE.
12. CONNECT 4" PRIMARY STORM DRAIN TO UNDERGROUND SITE STORM SEWER. PROVIDE CLEANOUT AT MINIMUM 18" AFF. COORDINATE DEPTH OF INVERT WITH CIVIL DRAWINGS.
13. ROUTE DRAIN PIPING AS HIGH TO ROOF DECK AS POSSIBLE. ROUTE PIPING DOWN IN WALL TO SITE CONTRACTOR PROVIDED UNDERGROUND CONNECTION. COORDINATE EXACT LOCATION AND ROUTING WITH TENANT PRIOR TO BID. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION AND CONTINUATION.
14. PROVIDE 3/4" DCW PIPING IN WALL TO WALL HYDRANT. MOUNT WALL HYDRANT 24" A.F.F.







FOR  
CONSTRUCTION

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Project No.

Contents:

SPECIFICATIONS  
PLUMBING





- # E200



