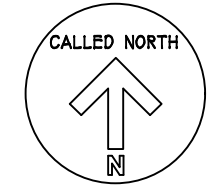


**AREA SUMMARY**

INDUSTRIAL (F-1)	SQUARE FOOTAGE
UNOCCUPIED SPACE	40,000 SF

NOTE: LOCATION OF DEVICES ARE DIAGRAMMATIC IN NATURE. EXACT LOCATION TO BE CONFIRMED WITH OWNER AND COORDINATED WITH OTHER TRADES PRIOR TO PROCEEDING WITH INSTALLATION.



# LIFE SAFETY PLAN

SCALE: 1" = 30'-0"

**LIFE SAFETY REQUIREMENTS**

Emergency Lighting:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Exit Signs:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Fire Alarm:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Smoke Detection System:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Panic Hardware:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

**EXIT REQUIREMENTS**

NUMBER AND ARRANGEMENT OF EXITS

BUILDING ELEMENTS	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS (1007.1.1)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1007.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQD. MIN. DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
INDUSTRIAL (F1)	2	6	250	215	46	60

NOTE:

**EXIT WIDTH**

USE GROUP OR SPACE DESCRIPTION	(a) AREA <sup>1</sup> sq. ft.	(b) AREA PER OCCUPANT (1004.1.2)	(c) EXIT WIDTH (m, 2.3.4.5.6)					
			EGRESS WIDTH PER OCCUPANT (SEC. 1005)	REQUIRED WIDTH (10/3) x C	ACTUAL WIDTH SHOWN ON PLANS			
			STAIR	LEVEL	STAIR	LEVEL		
INDUSTRIAL (F1)	40,000	100	.3	.2	60	80	72	144

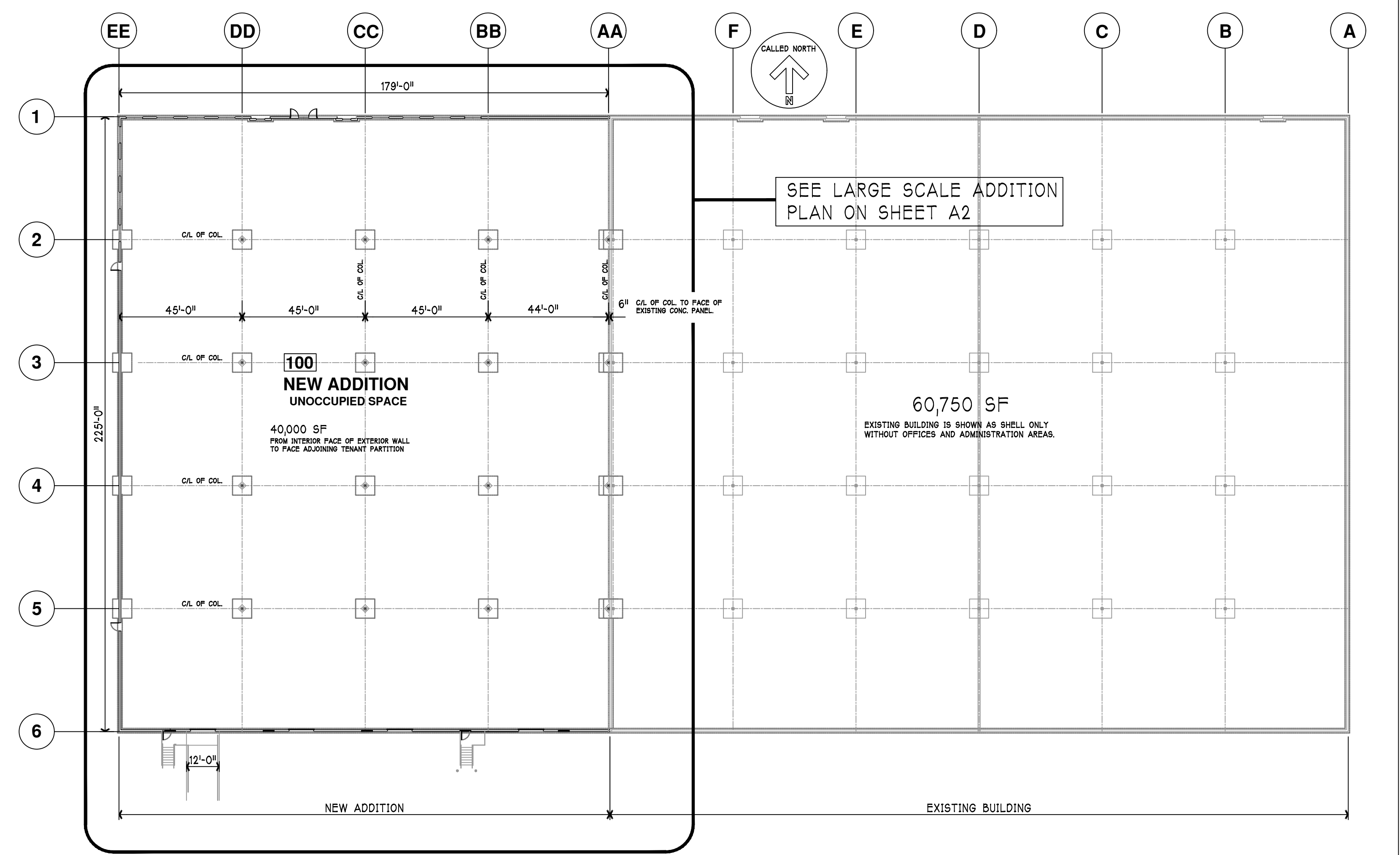
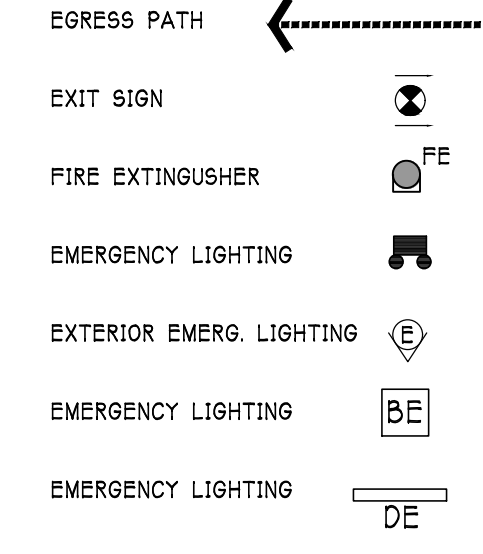
See Table 1003.2.2.2 to determine whether net or gross area is applicable.  
 \* See definition "Area Gross" and "Area, Net" (Section 1002).  
 5 The sprinkler increase per Section 506.3 is as follows:  
 c. Multi-story building  $\beta = 200$  percent.  
 c. Single-story building  $\beta = 300$  percent.  
 Min. stairway width (Section 1003.3.3); min. corridor width (Sec. 1004.3.2.2); min. door width (Section 1003.3.1)  
 Minimum width of exit passageway (Section 1005.3.3)  
 The loss of one means of egress shall not reduce the available capacity to less than 50% of the total required (Section 1003.2.3)  
 Assembly occupancies (Section 1008)

**LIFE SAFETY PLAN GENERAL NOTES:**

- A. BUILDING DESIGN INCLUDES:
1. EXACT LOCATION OF PORTABLE FIRE EXTINGUISHERS TO BE COORDINATED WITH FIRE MARSHALL AND ALL OTHER TRADES.
  2. FIRE ALARM SYSTEM WITH SMOKE DETECTORS.
  3. INTERIOR EMERGENCY LIGHTING
  4. EXTERIOR EMERGENCY LIGHTING AT EXIT DOORS.
  5. EXIT SIGNS
  6. FIRE SPRINKLER SYSTEM.

- B. BUILDING OCCUPANCY INDUSTRIAL (F-1).
- C. OCCUPANCY LOAD: REFER TO SHEET TS FOR APPENDIX 'B'.

**LIFE SAFETY PLAN LEGEND:**



# OVERALL KEY PLAN VIEW

SCALE: 1" = 30'-0"

DIGITAL PLANS OF EXISTING BUILDING ARE A GENERAL REPRESENTATION OF THE EXISTING BUILDING AND HAVE BEEN DEVELOPED FROM OLD EXISTING DRAWINGS WITH MINIMAL SITE OBSERVATIONS. THESE DRAWINGS/FILES ARE NOT INTENDED TO BE A PRECISE REPRESENTATION OF THE EXISTING CONSTRUCTION. FIELD VERIFY EXISTING CONDITIONS OF ANY AREAS THAT ARE CRITICAL TO ALL RENOVATIONS, ADDITIONS AND FUTURE DESIGN OF THIS BUILDING. ALL SQUARE FOOTAGE NUMBERS ARE APPROXIMATE.

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FILE NAME: RLW98.dwg

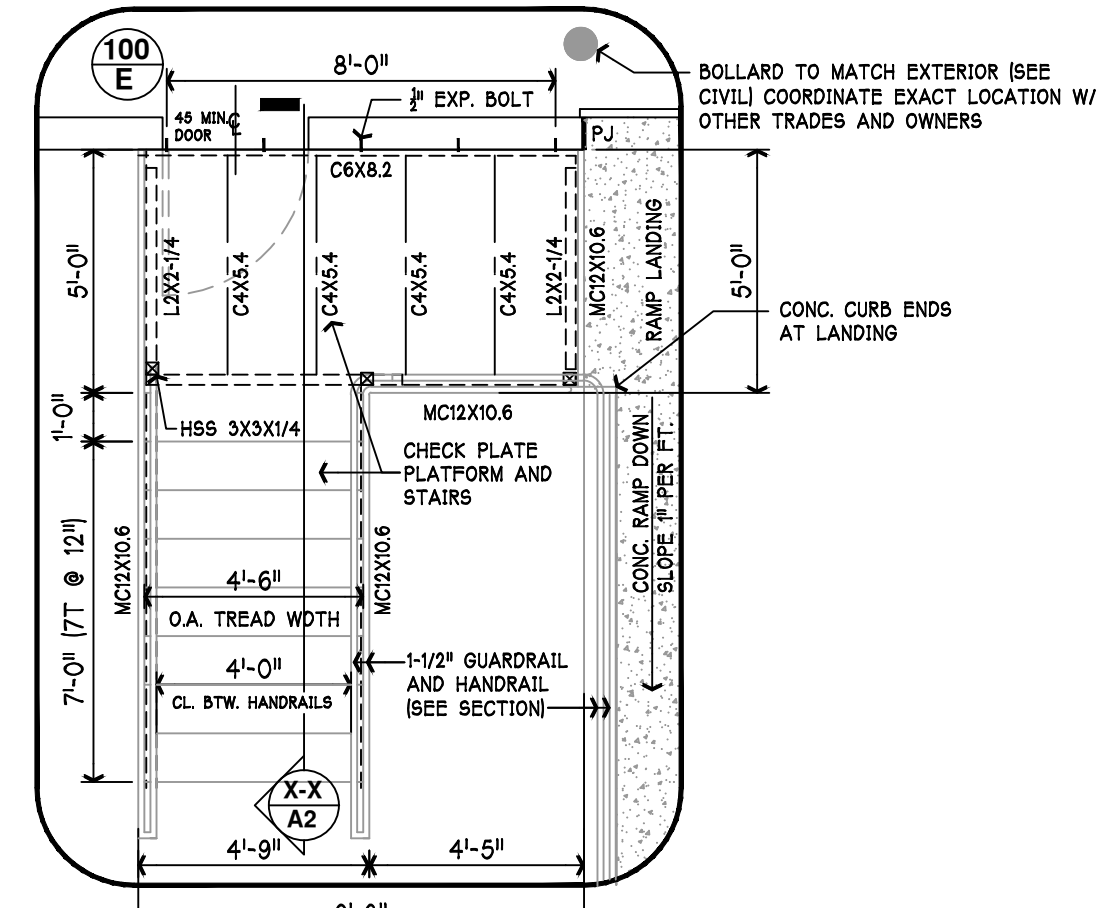


DATE: 4 APR 2024

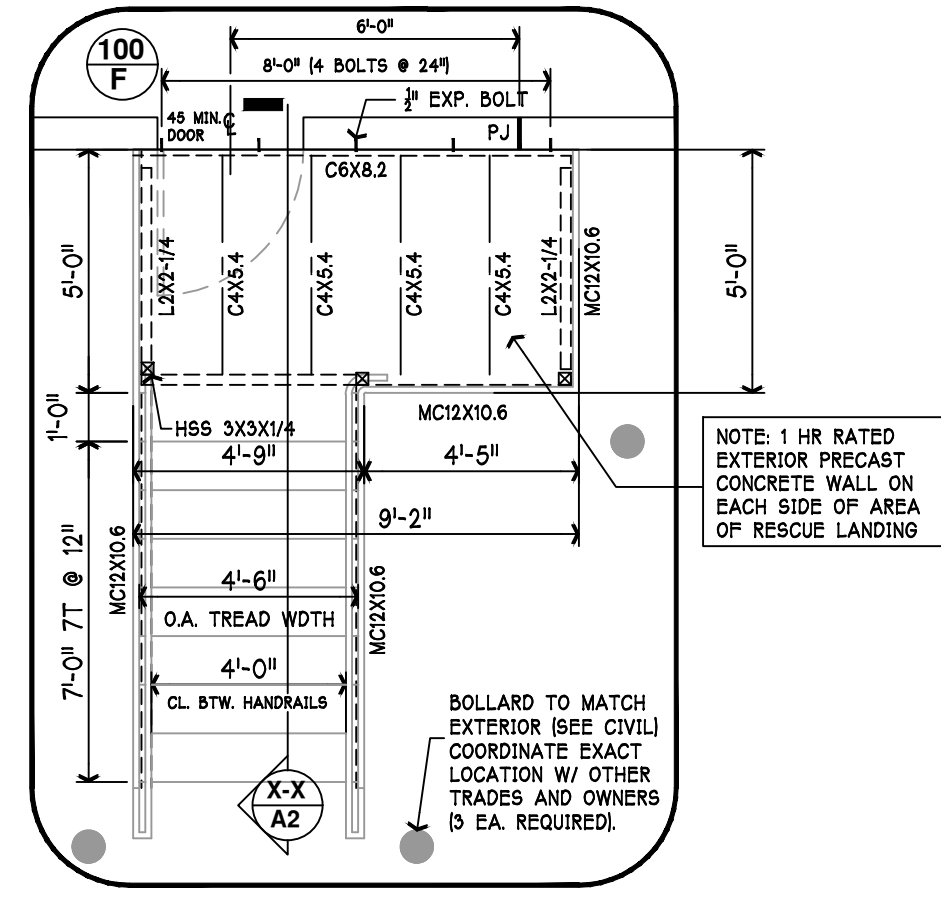
SHEET: **A1**

# SPECIAL CONSTRUCTION NOTES:

- THE DETAILED CONSTRUCTION DRAWINGS ARE INTENDED TO MATCH THE EXISTING BUILDING IN CONCEPT AND DETAILS WHENEVER POSSIBLE. FINAL APPEARANCE IS EXPECTED TO MATCH EXISTING COLORS, DESIGN FEATURES, QUALITY OF MATERIALS, ETC. ANY CONFLICTS WITH THIS INTENT IS TO BE BROUGHT TO THE OWNER/ARCHITECT'S ATTENTION BEFORE PROCEEDING.
- THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS. CONSULT ARCHITECT FOR ANY CONFLICTS.
- STRUCTURAL ENGINEER'S FOUNDATION/FOOTING DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THE REQUIRED AGGREGATE PIER DESIGN AND CONSTRUCTION IS TO BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER DESIGNATED DESIGN REQUIREMENTS. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL IS TO COMPLY WITH ALL BUILDING CODES AND/OR ORDINANCES THAT HAVE JURISDICTION OVER THIS PROJECT. CONTRACTOR IS TO CONSULT WITH OWNER/ARCHITECT REGARDING ANY PORTIONS OF THE DOCUMENTS THAT DO NOT COMPLY WITH SUCH CODES/ORDINANCES.
- THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER DESIGNATED DESIGN REQUIREMENTS. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- DIMENSIONS:
  - TO PARTITIONS ARE TO FACE OF PARTITION U.O.N.
  - DIMENSIONS TO ALUM. WINDOW AND STOREFRONT ENTRY ARE TO CENTER LINE OF WINDOW/STOREFRONT ENTRY UNIT U.O.N.
  - REFER TO DOOR AND WINDOW DETAILS, ELEVATIONS, ETC. FOR ROUGH OPENING REQUIREMENTS.

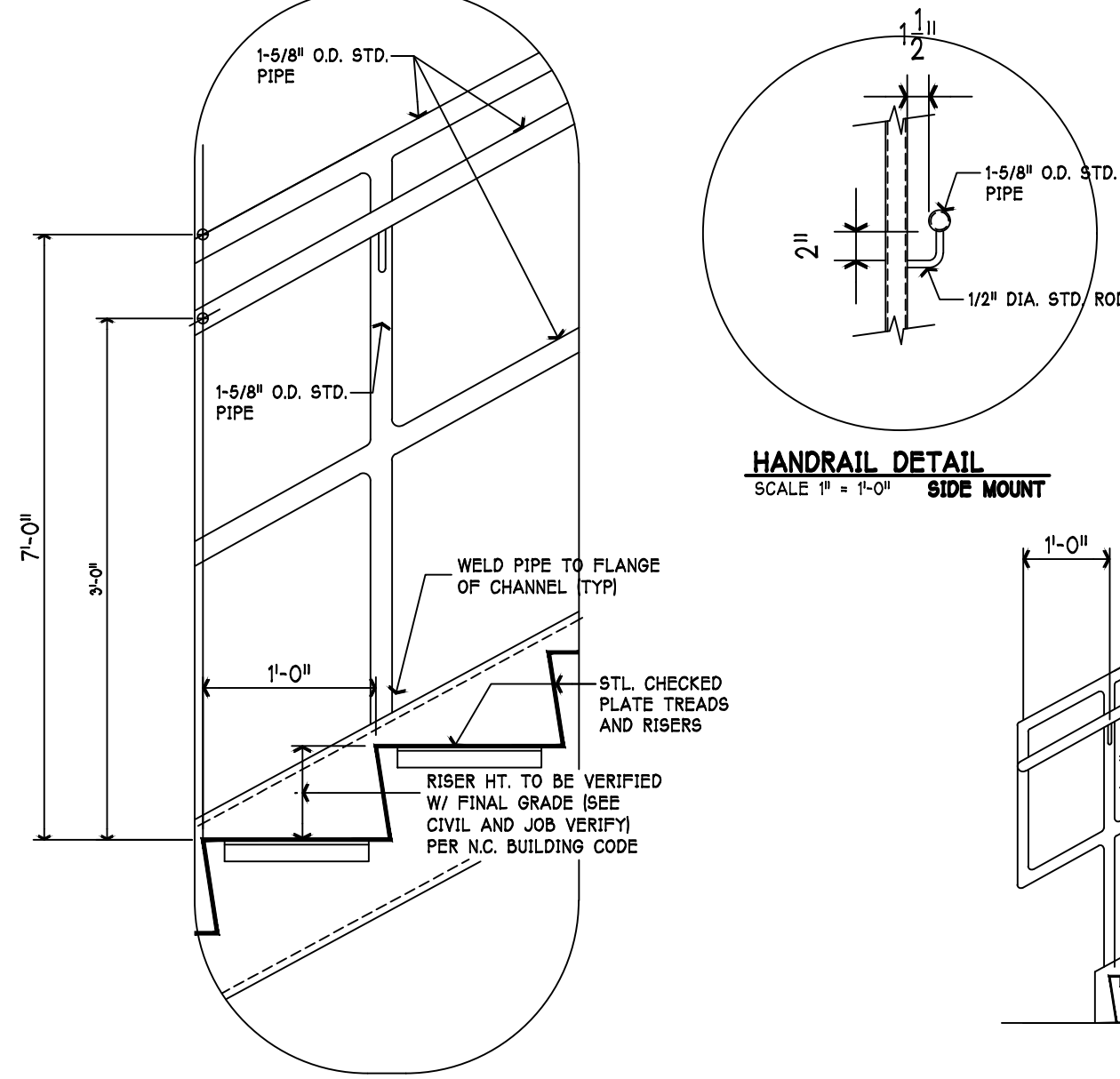


**S1 EXTERIOR STAIR**  
SCALE 1/4" = 1'-0"

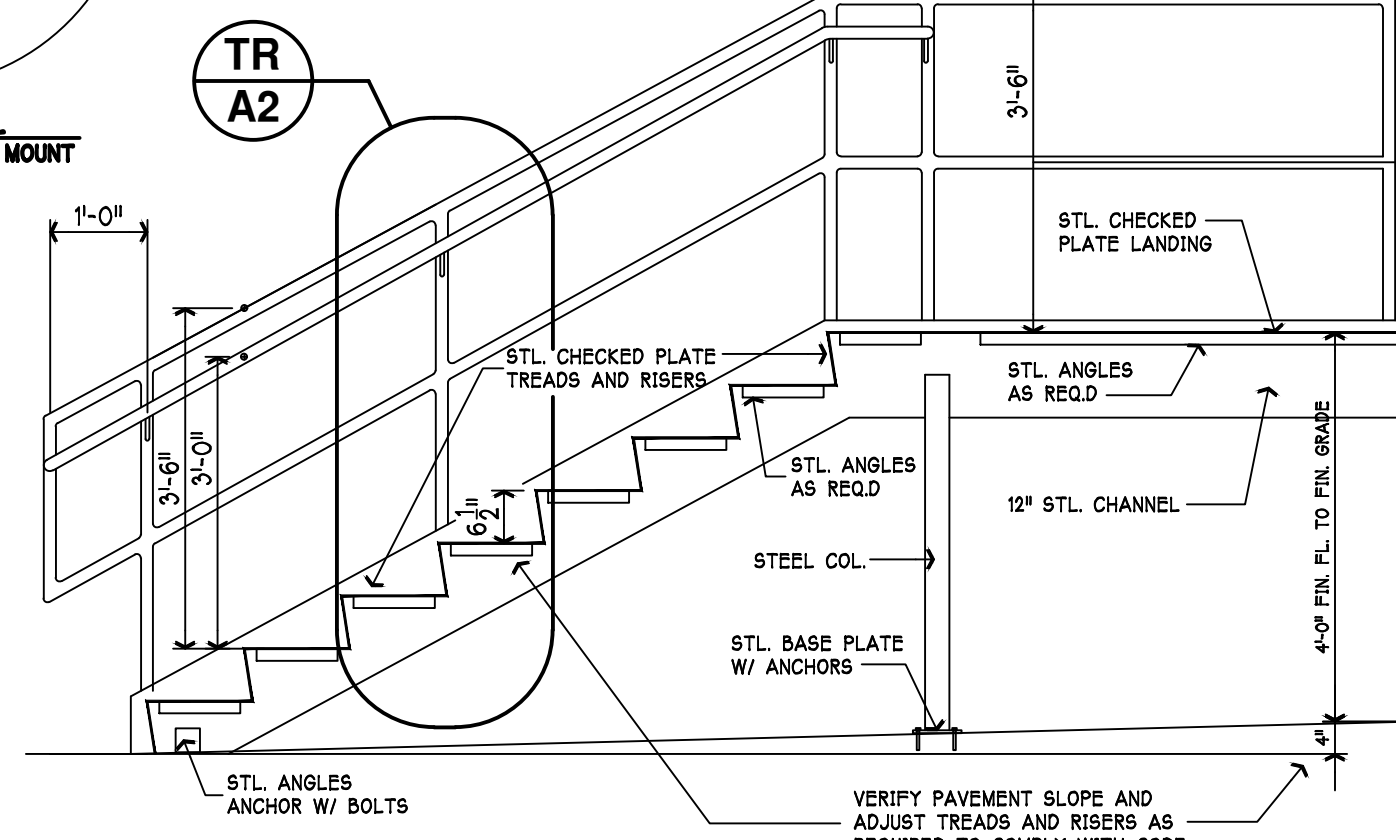


**S2 EXTERIOR STAIR**  
SCALE 1/4" = 1'-0"

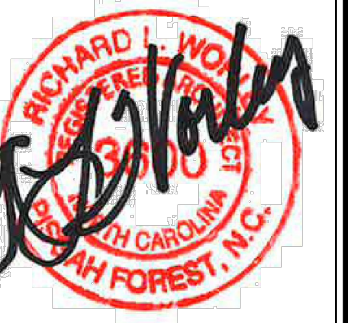
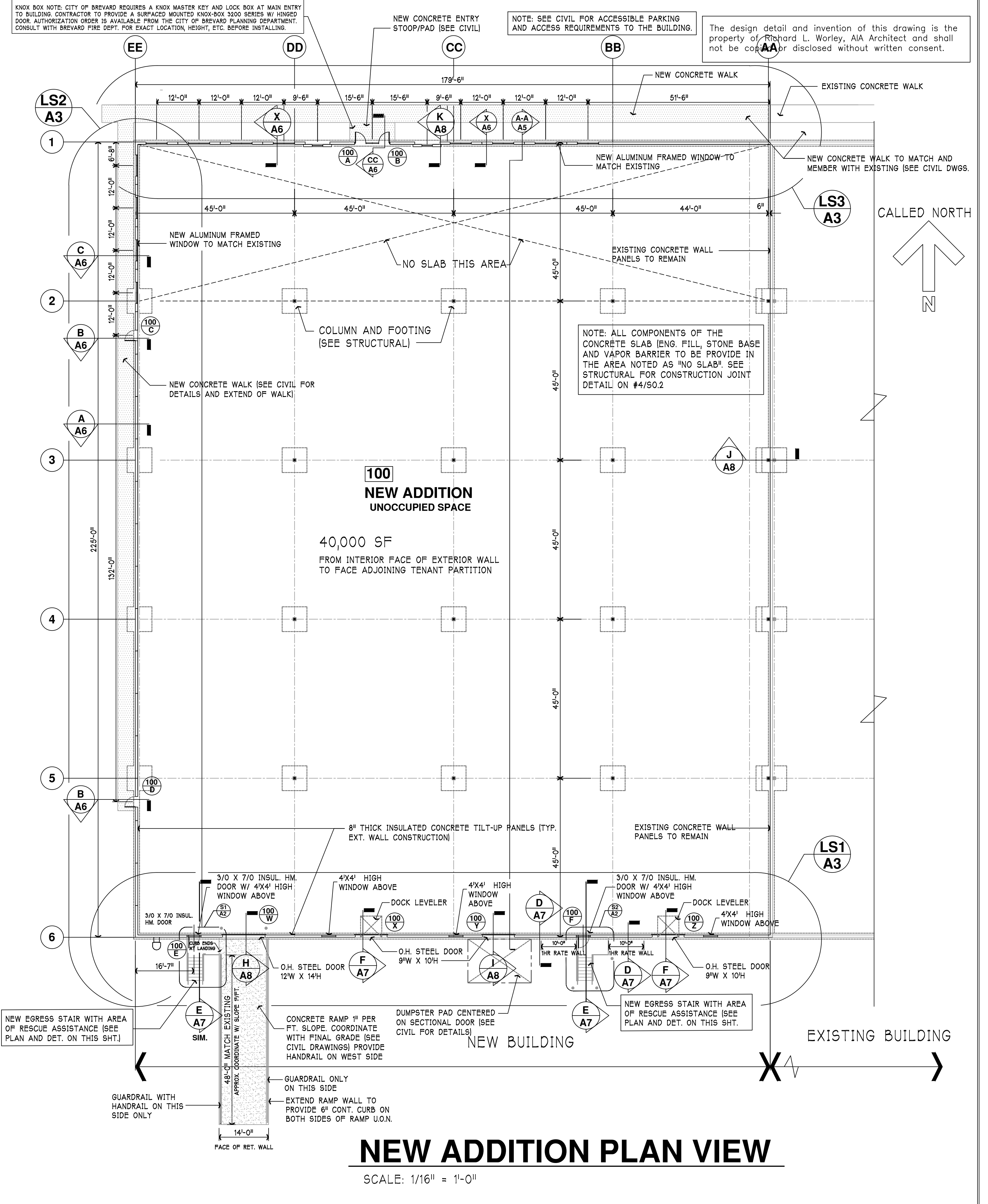
- STAIR NOTES:**
- STAIR DRAWINGS ARE PROVIDED AS INITIAL DESIGN CONCEPT AND INTENDED TO MATCH EXISTING STAIRS UNLESS ISSUES REGARDING CODES OR SITE CONDITION ALTERS THIS INTENT. ANY ALTERATIONS ARE TO BE COORDINATED WITH OWNER/ARCHITECT BEFORE PROCEEDING WITH DESIGN AND SO NOTED ON SHOP DRAWINGS.
  - FINAL STAIR DESIGN SHALL BE DESIGNED BY SUPPLIER WITH SEALED CALCULATIONS INDICATING DESIGN COMPLIES WITH ALL NC BUILDING CODE REQUIREMENTS.
  - ALL STAIR COMPONENTS ARE TO BE SHOP ASSEMBLED AND SHOP PRIMED AFTER FABRICATION.
  - ALTHOUGH LANDINGS ARE TO BE FLUSH WITH FINISH FLOOR, FABRICATE STAIR TO PROVIDE POSITIVE WATER DRAINAGE IN ACCORDANCE WITH CODE REQUIREMENTS.
  - SEE PROJECT MANUAL FOR METAL FLOOR PLATE STAIRS SPECIFICATIONS.



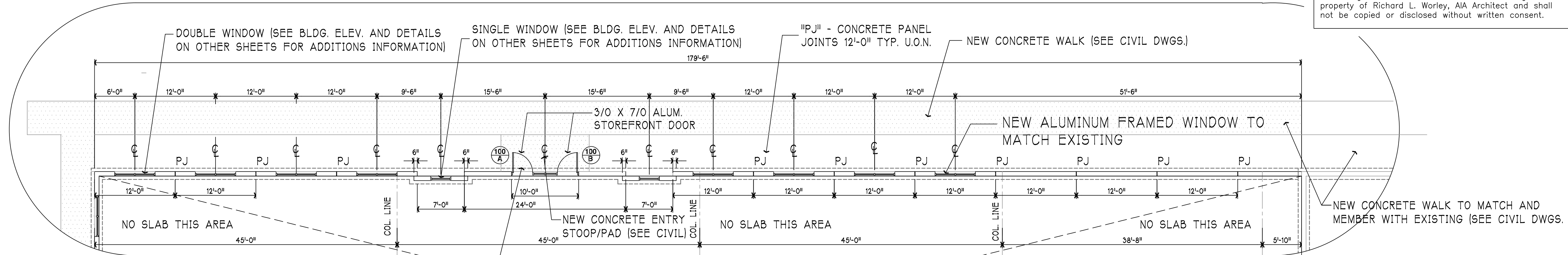
**TR STAIR DETAIL**  
SCALE 1" = 1'-0"



**X-X EXTERIOR STAIR SECTION**  
SCALE 1/2" = 1'-0"

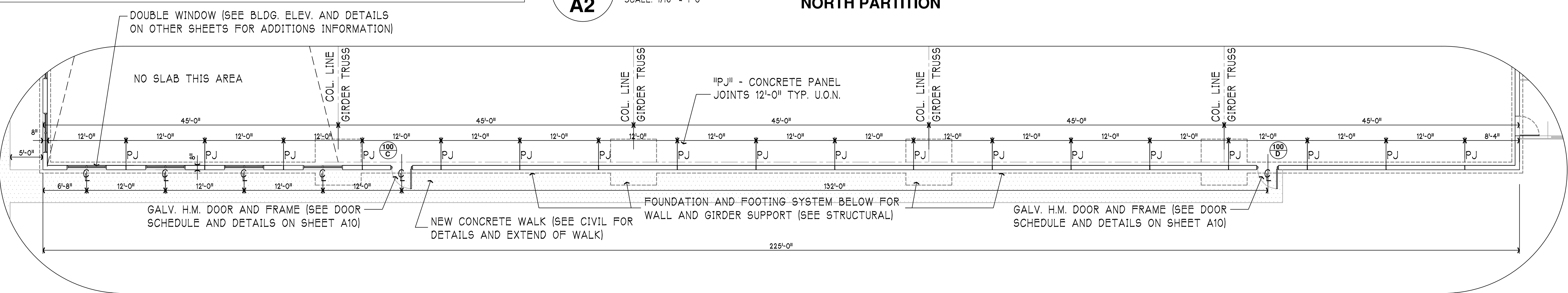
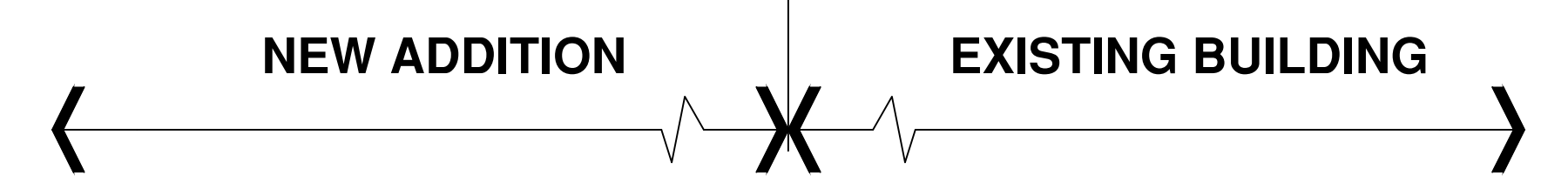


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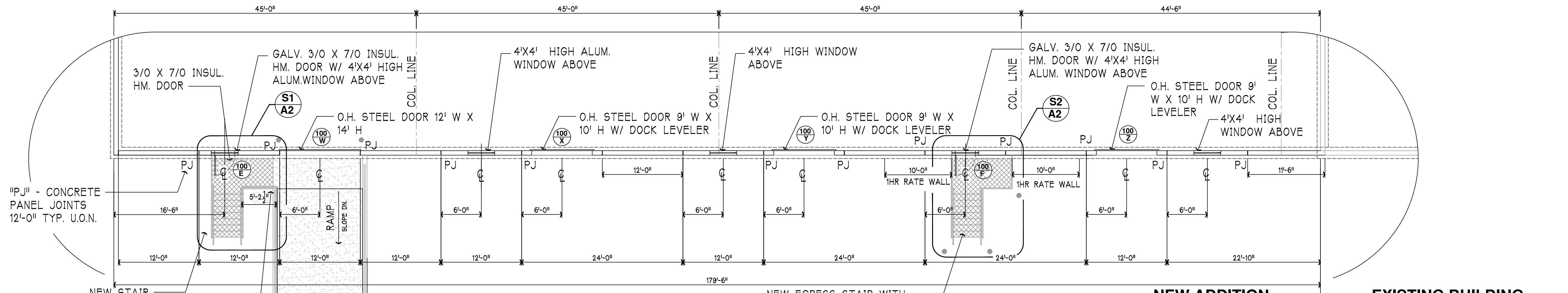


**KNOX BOX NOTE:** CITY OF BREVARD REQUIRES A KNOX MASTER KEY AND LOCK BOX AT MAIN ENTRY TO BUILDING CONTRACTOR TO PROVIDE A SURFACED MOUNTED KNOX-BOX 3200 SERIES W/ HINGED DOOR. AUTHORIZATION ORDER IS AVAILABLE FROM THE CITY OF BREVARD PLANNING DEPARTMENT. CONSULT WITH BREVARD FIRE DEPT. FOR EXACT LOCATION, HEIGHT, ETC. BEFORE INSTALLING.

**LS3 LARGE SCALE PARTIAL PLAN**  
**A2** SCALE: 1/16" = 1'-0"  
**NORTH PARTITION**



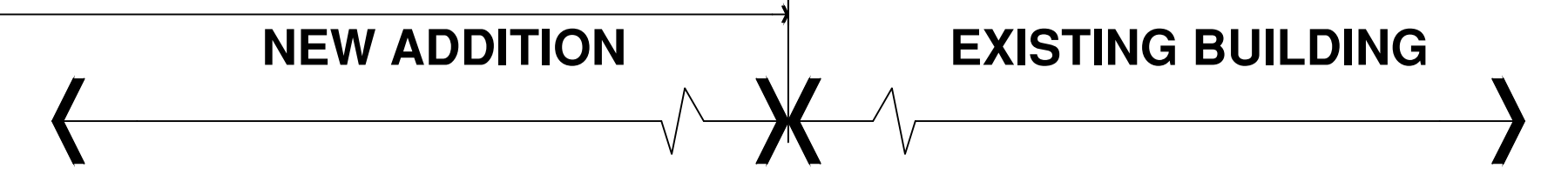
**LS2 LARGE SCALE PARTIAL PLAN**  
**A2** SCALE: 1/16" = 1'-0"  
**WEST PARTITION**



GUARDRAIL WITH HANDRAIL ON THIS SIDE ONLY. HANDRAIL TO MATCH AND MEMBER WITH STAIR/LANDING HANDRAIL DESIGN AT 36" ABOVE RAMP FINISH SLOPE

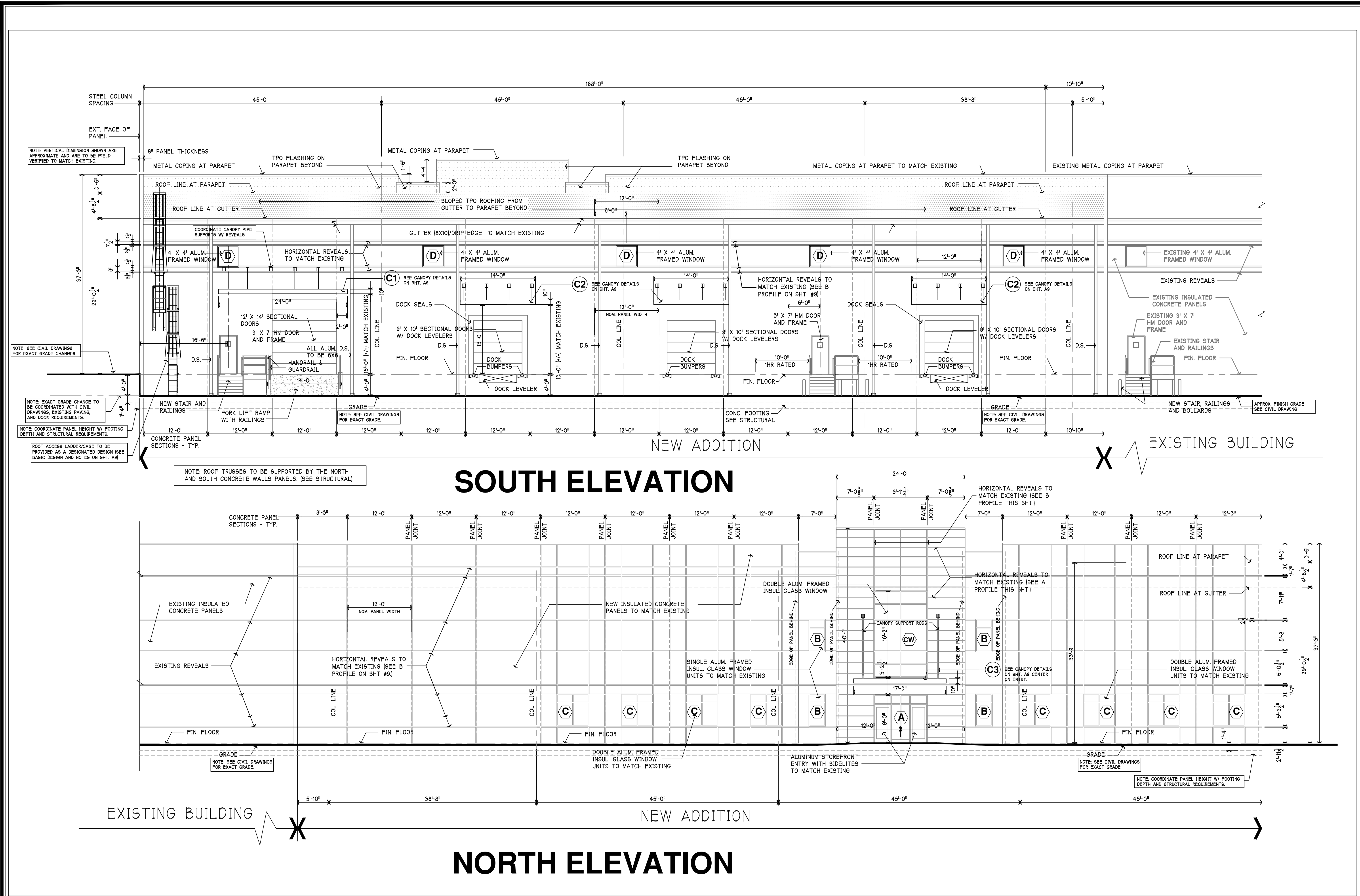
CONCRETE RAMP 1" PER FT. SLOPE. COORDINATE WITH FINAL GRADE (SEE CIVIL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS) PROVIDE HANDRAIL ON WEST SIDE ONLY.

**LS1 LARGE SCALE PARTIAL PLAN**  
**A2** SCALE: 1/16" = 1'-0"  
**SOUTH PARTITION**



DATE: 4 APR 2024

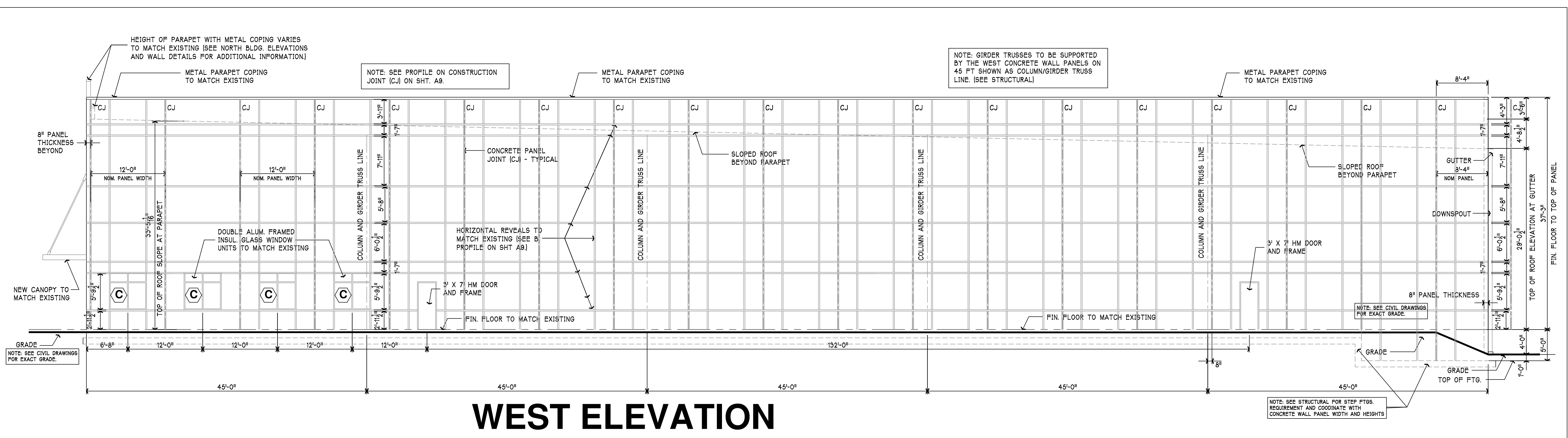
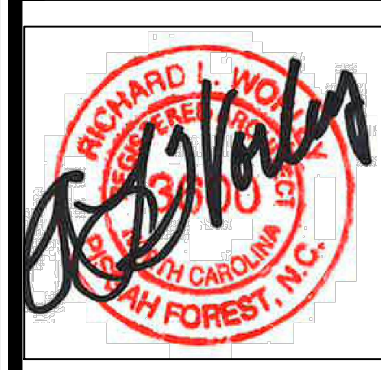
SHEET: **A3**



# NORTH AND SOUTH BUILDING ELEVATION

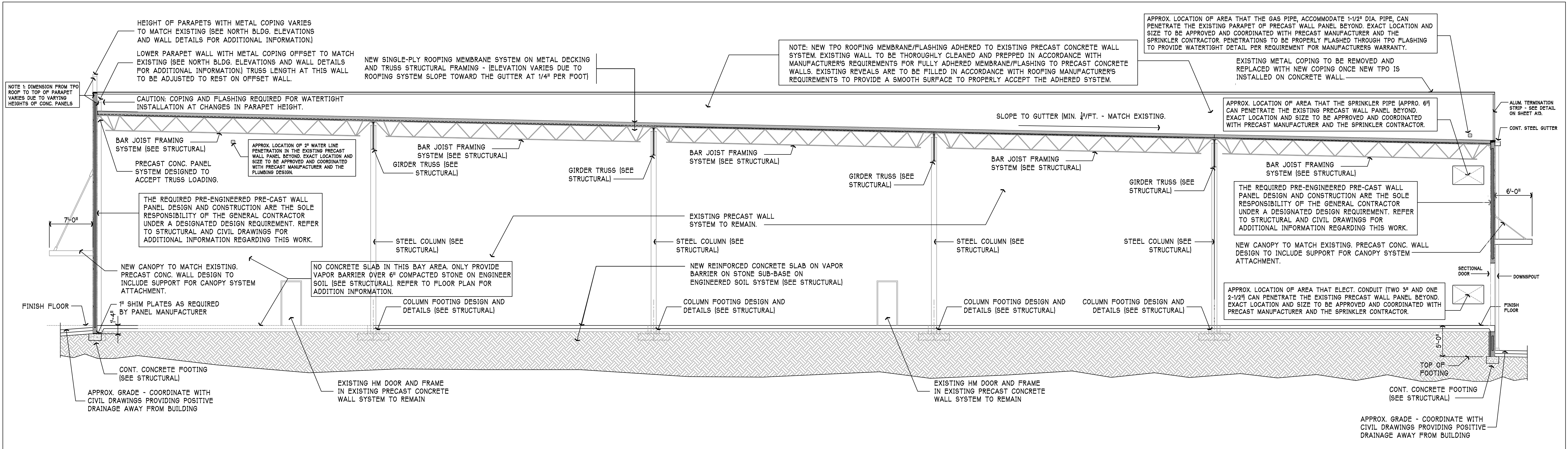
SCALE: 1/8" = 1'-0"

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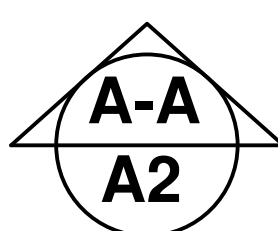


# WEST ELEVATION WEST BUILDING ELEVATION

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



# BUILDING SECTION



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

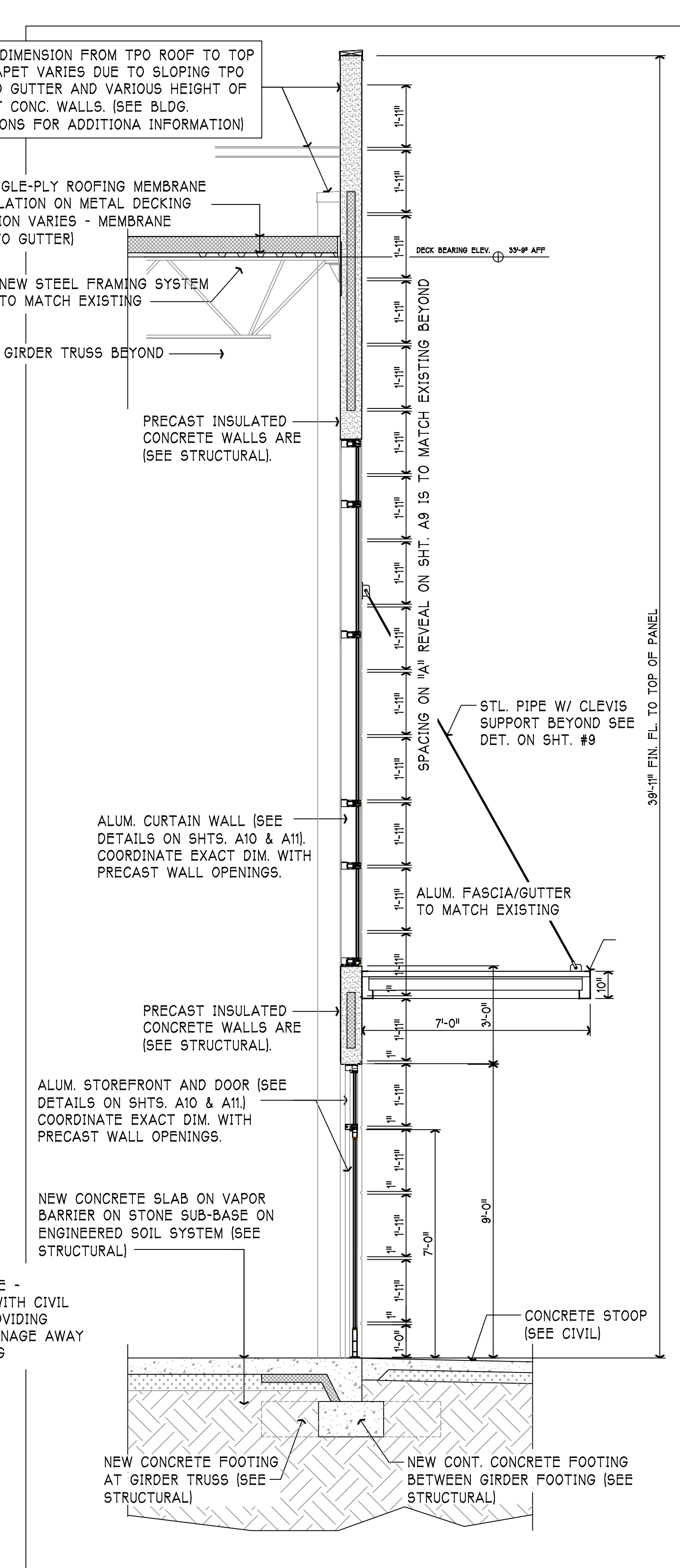
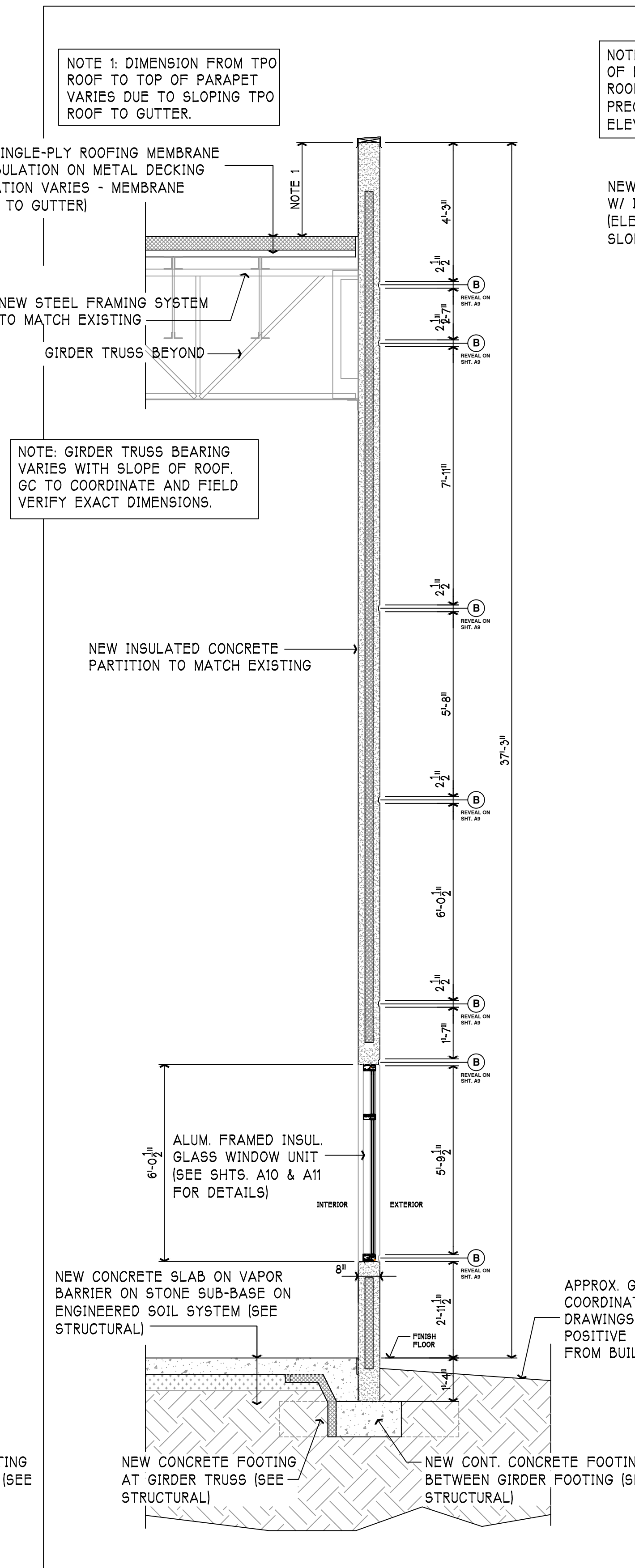
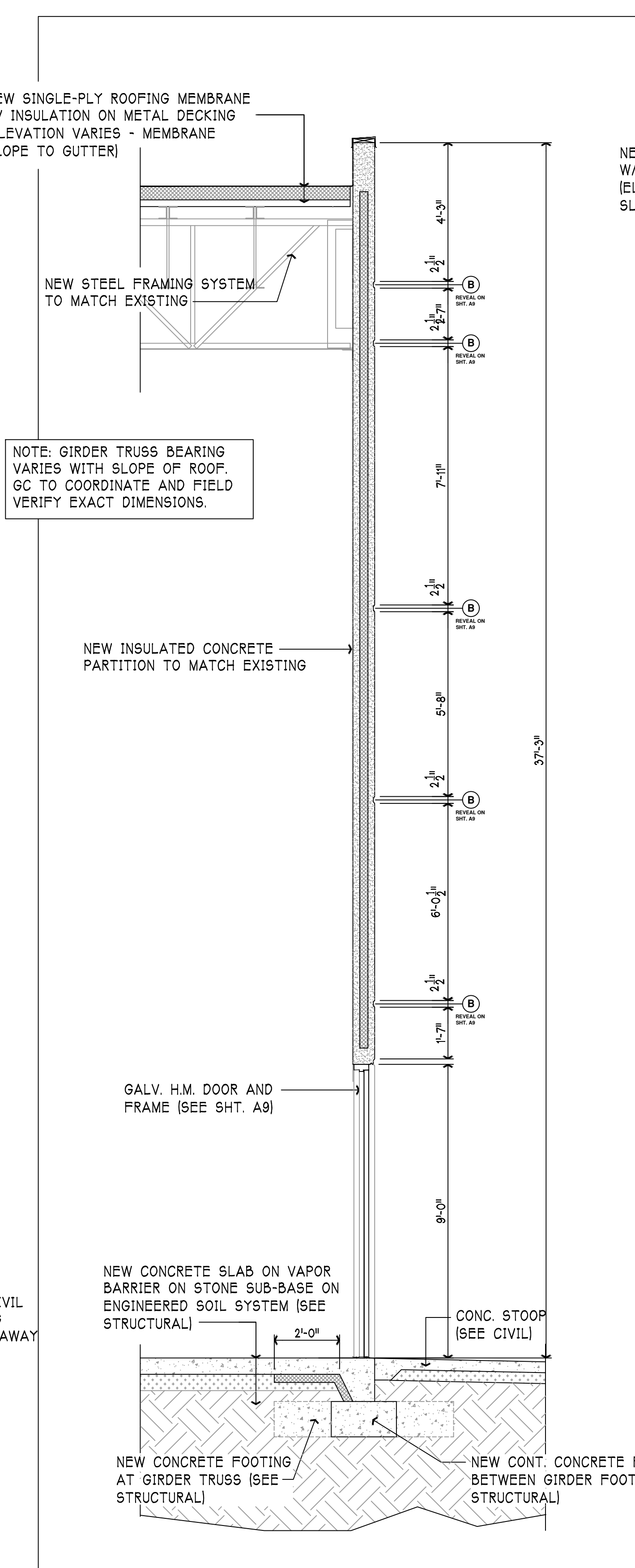
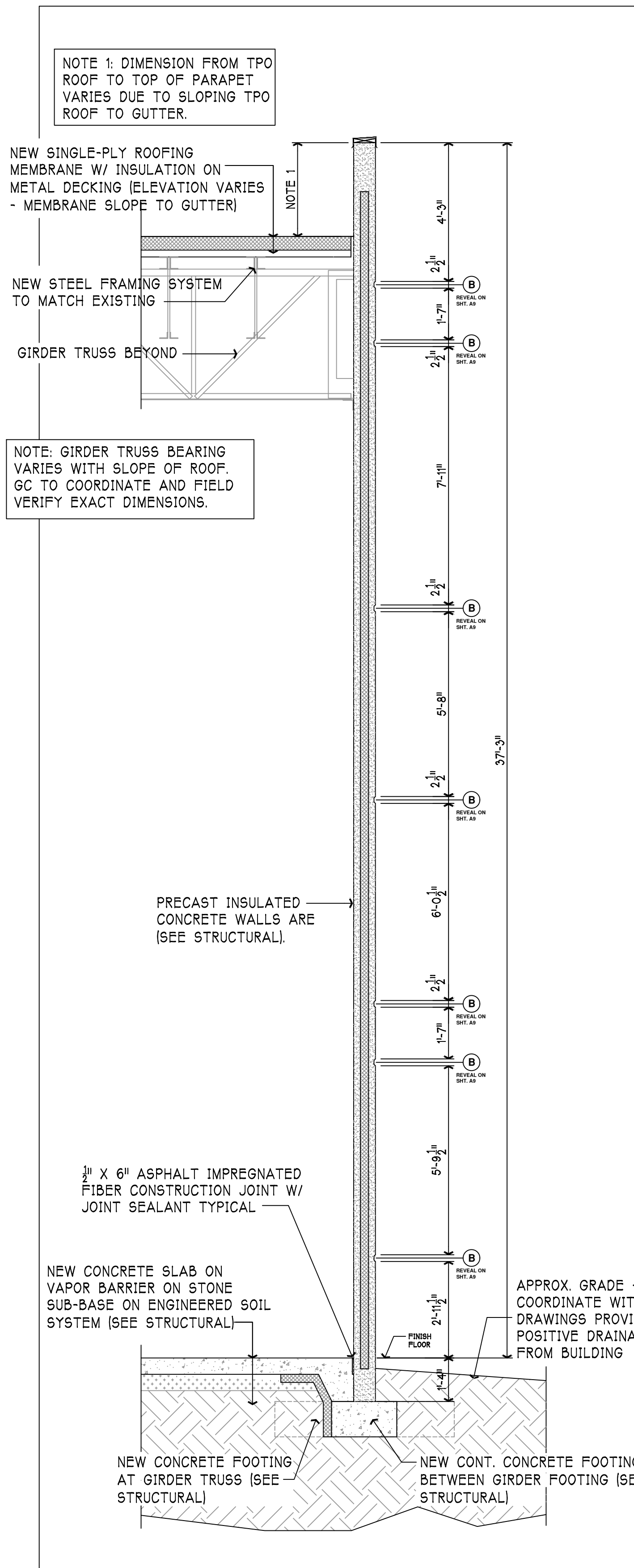
The design detail and invention of this drawing is the property of Richard L. Worley, AIA Architect and shall not be copied or disclosed without written consent.

FILE NAME: RLW98.dwg

**NOTES:**

1. ALL DIM. INCLUDED BUT NOT LIMITED TO THE REVEALS, PANEL WIDTHS/HEIGHT, DECK BEARING ELEVATION, ETC. ARE TO BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL TRADES.
2. THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.

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**A**  
**A2** **WALL SECTION**  
SCALE: 3/8" = 1'-0"  
TYPICAL WEST WALL

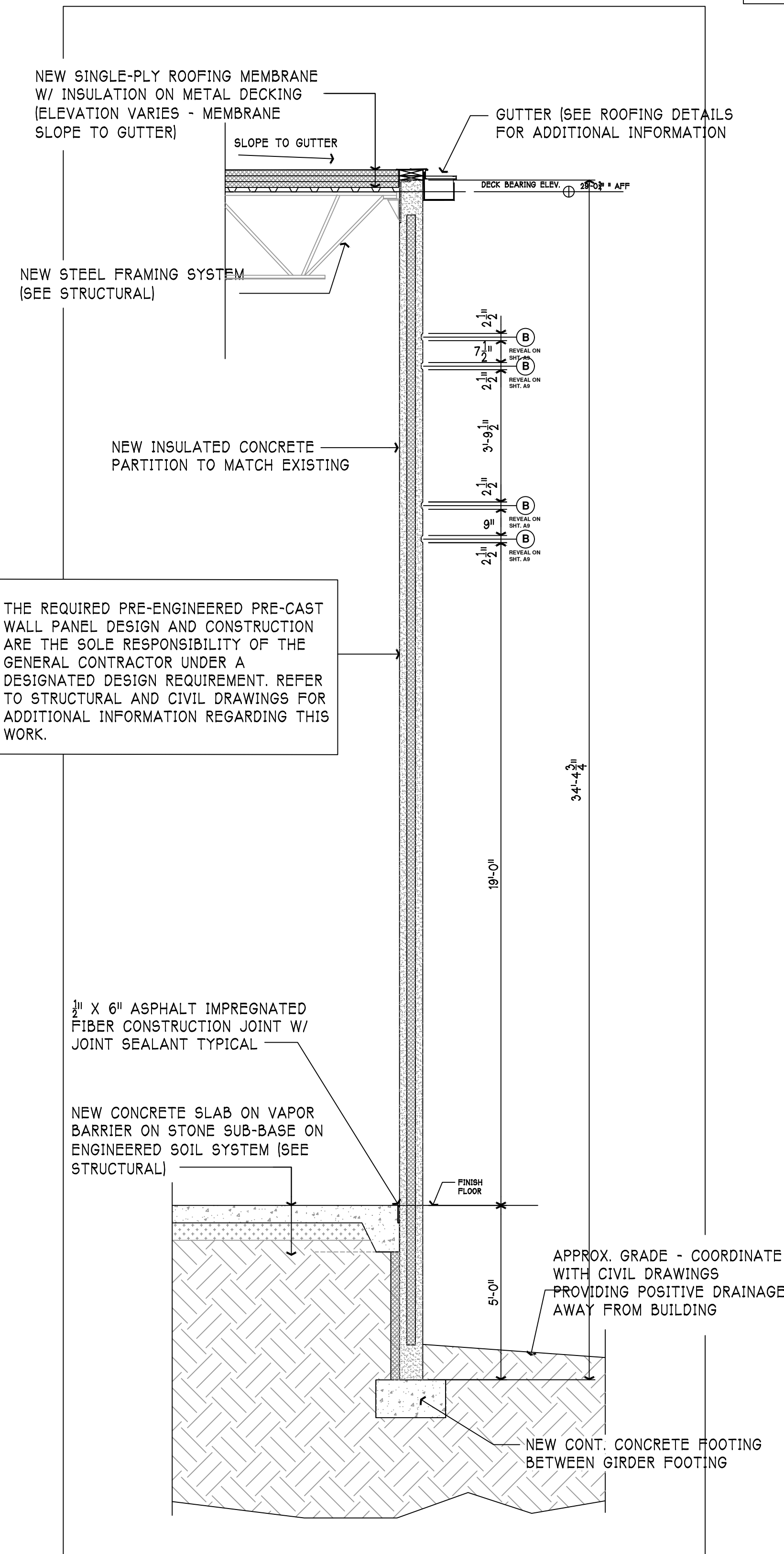
**B**  
**A2** **WALL SECTION**  
SCALE: 3/8" = 1'-0"  
WEST WALL AT H.M. DOOR

**C**  
**A2** **WALL SECTION**  
SCALE: 3/8" = 1'-0"  
W WALL AT ALUM. WINDOW

**CC**  
**A2** **WALL SECTION**  
SCALE: 3/8" = 1'-0"  
NORTH WALL AT ALUM. STOREFRONT



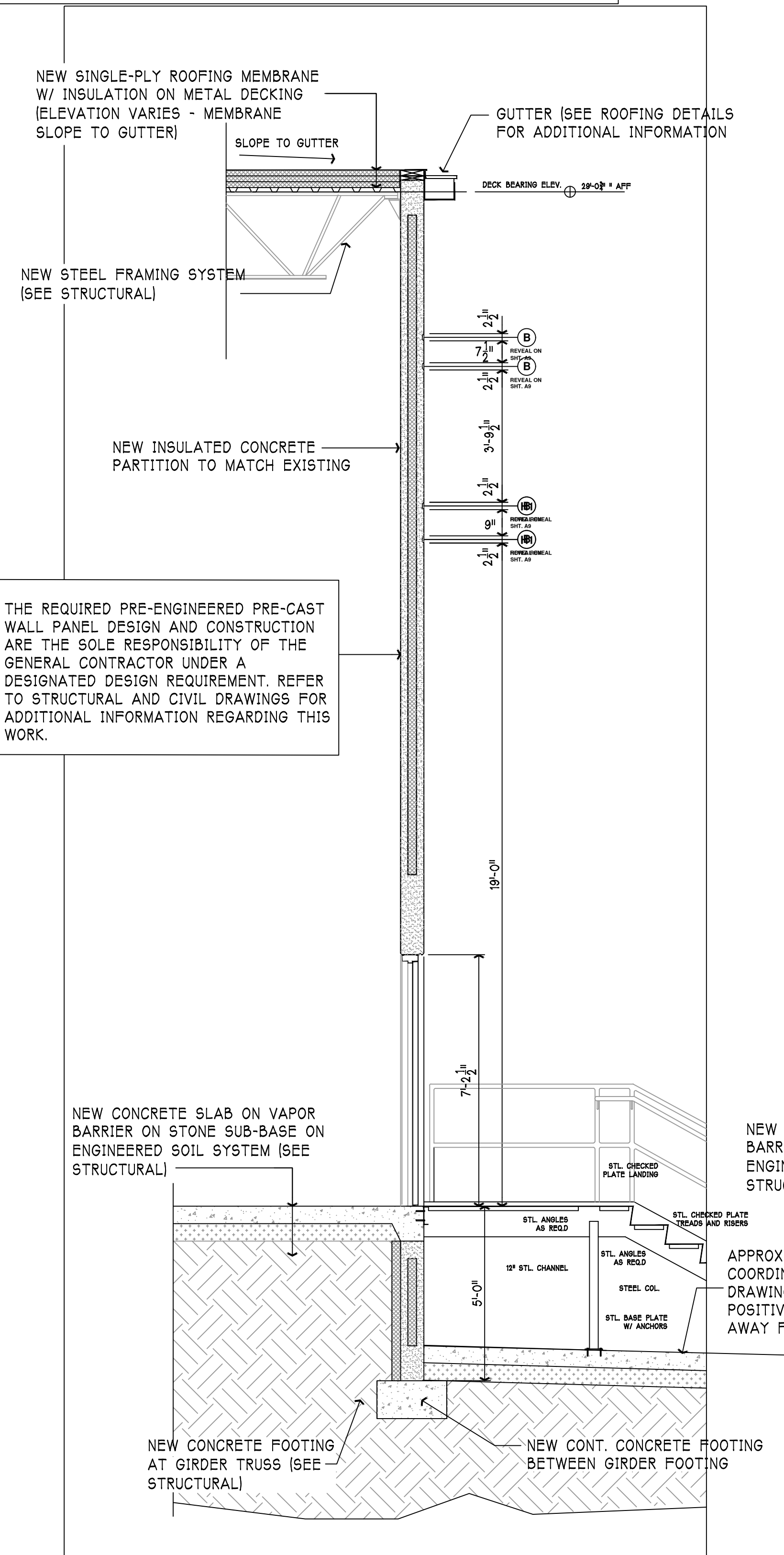
NOTE: ALL DIM. INCLUDED BUT NOT LIMITED TO THE REVEALS, PANEL WIDTHS/HEIGHT, DECK BEARING ELEVATION, ETC. ARE TO BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL TRADES.



THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.

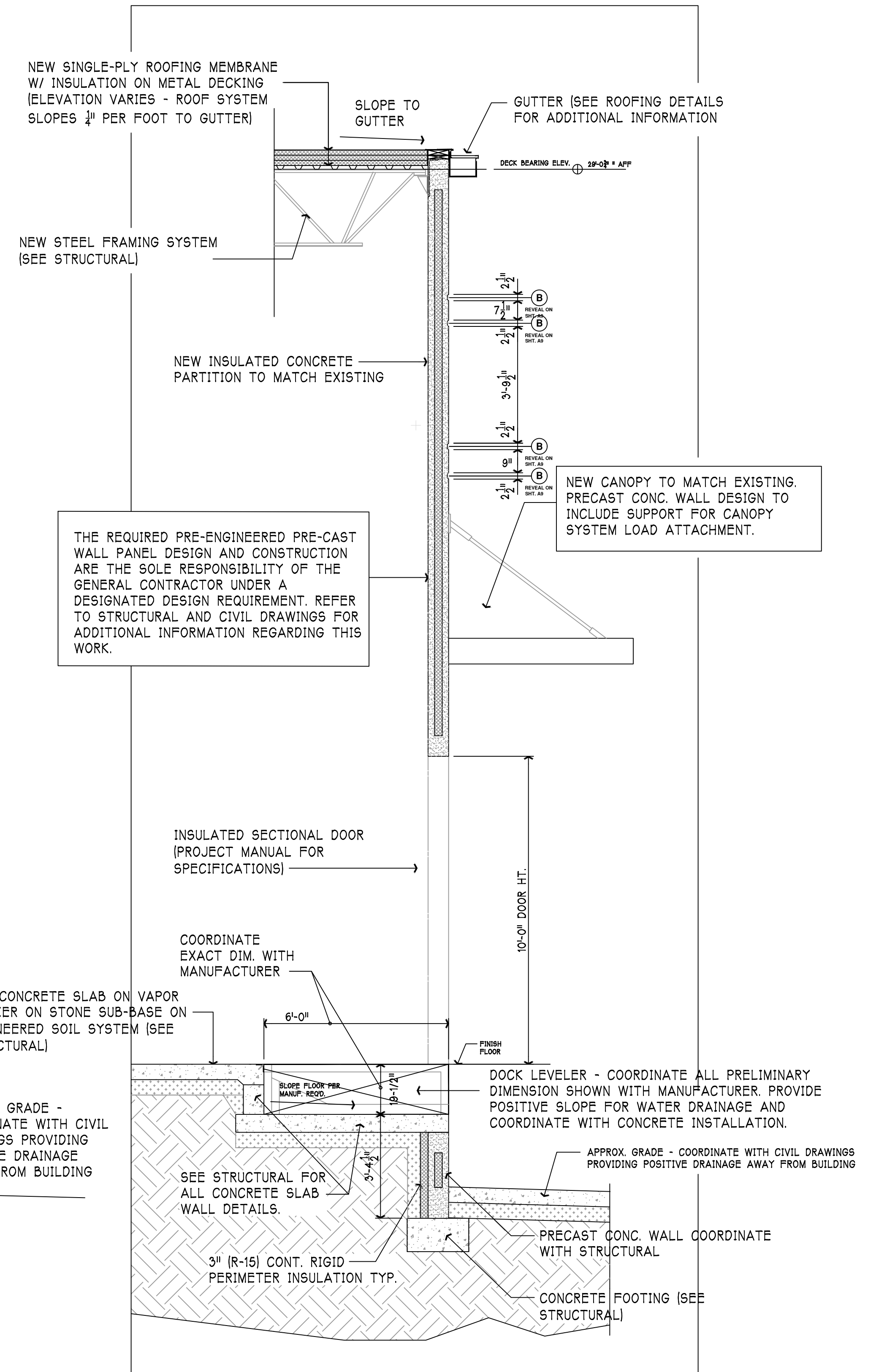
NOTES:

1. ALL DIM. INCLUDED BUT NOT LIMITED TO THE REVEALS, PANEL WIDTHS/HEIGHT, DECK BEARING ELEVATION, ETC. ARE TO BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL TRADES.
2. THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.



THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.

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THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.

**D**  
**A2**  
**WALL SECTION**  
SCALE: 3/8" = 1'-0" TYPICAL AT SOUTH DOCK WALL

**E**  
**A2**  
**WALL SECTION**  
SCALE: 3/8" = 1'-0" H.M. DOORS AT STAIRS

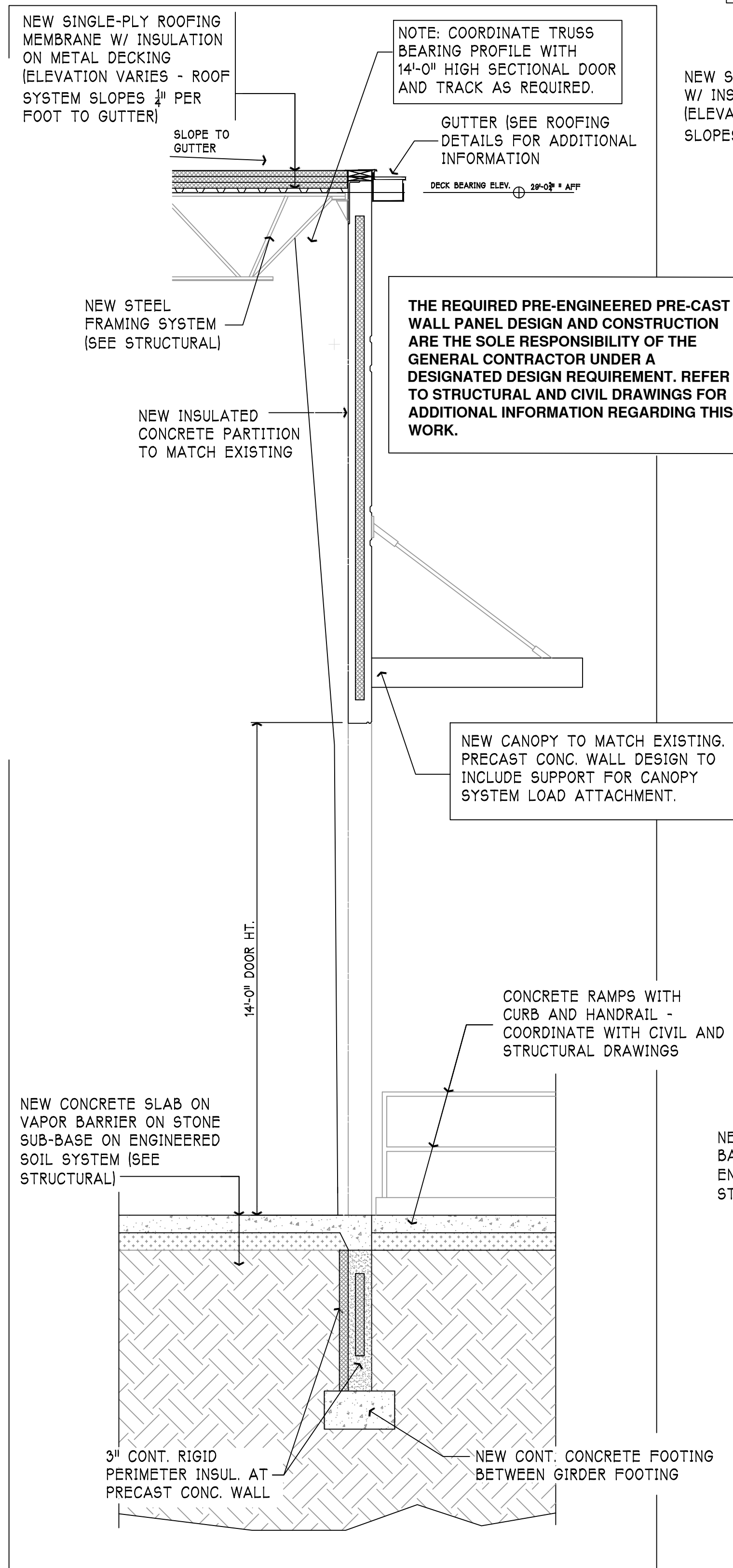
**F**  
**A2**  
**WALL SECTION**  
SCALE: 3/8" = 1'-0" SECTIONAL DOOR AT DOCK LEVELER



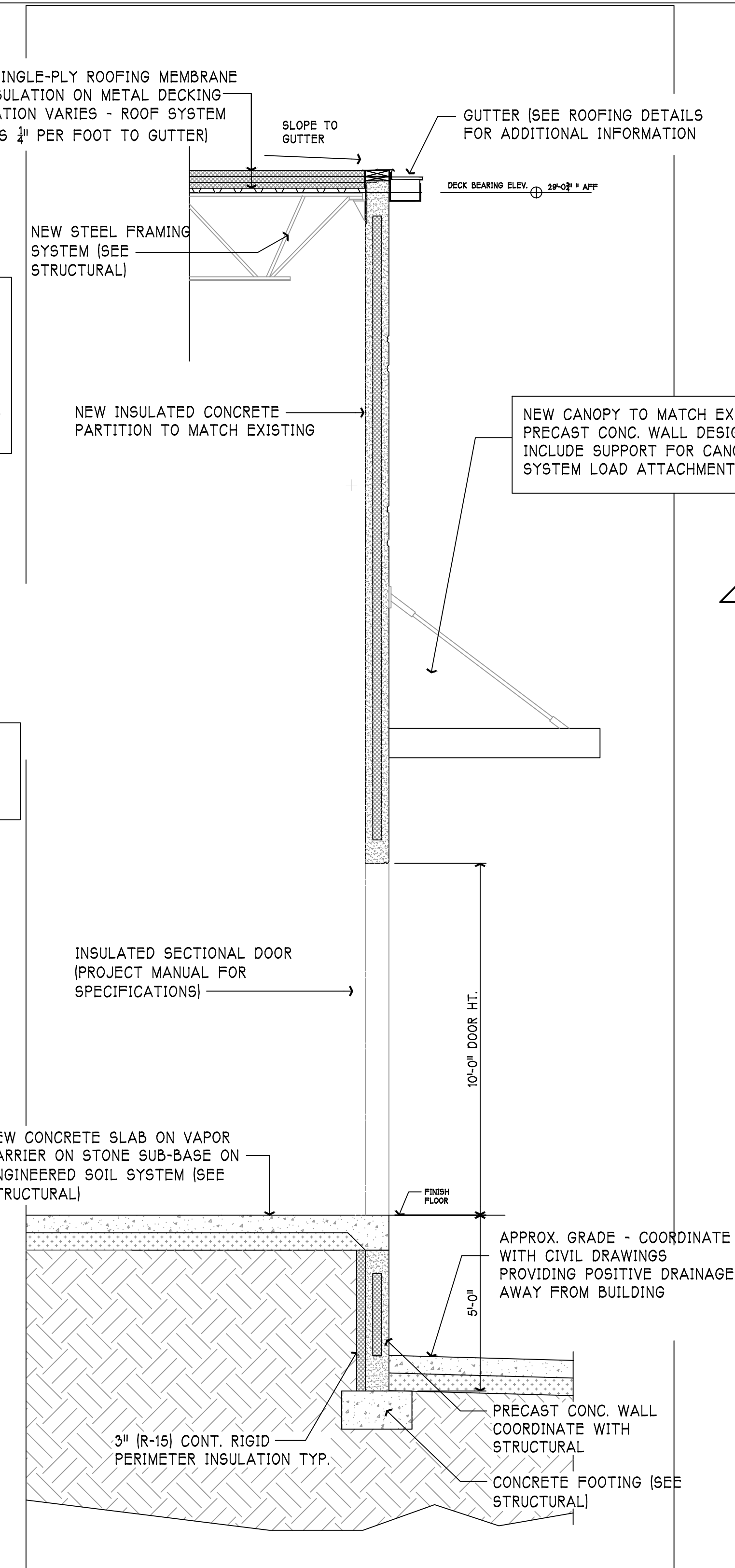


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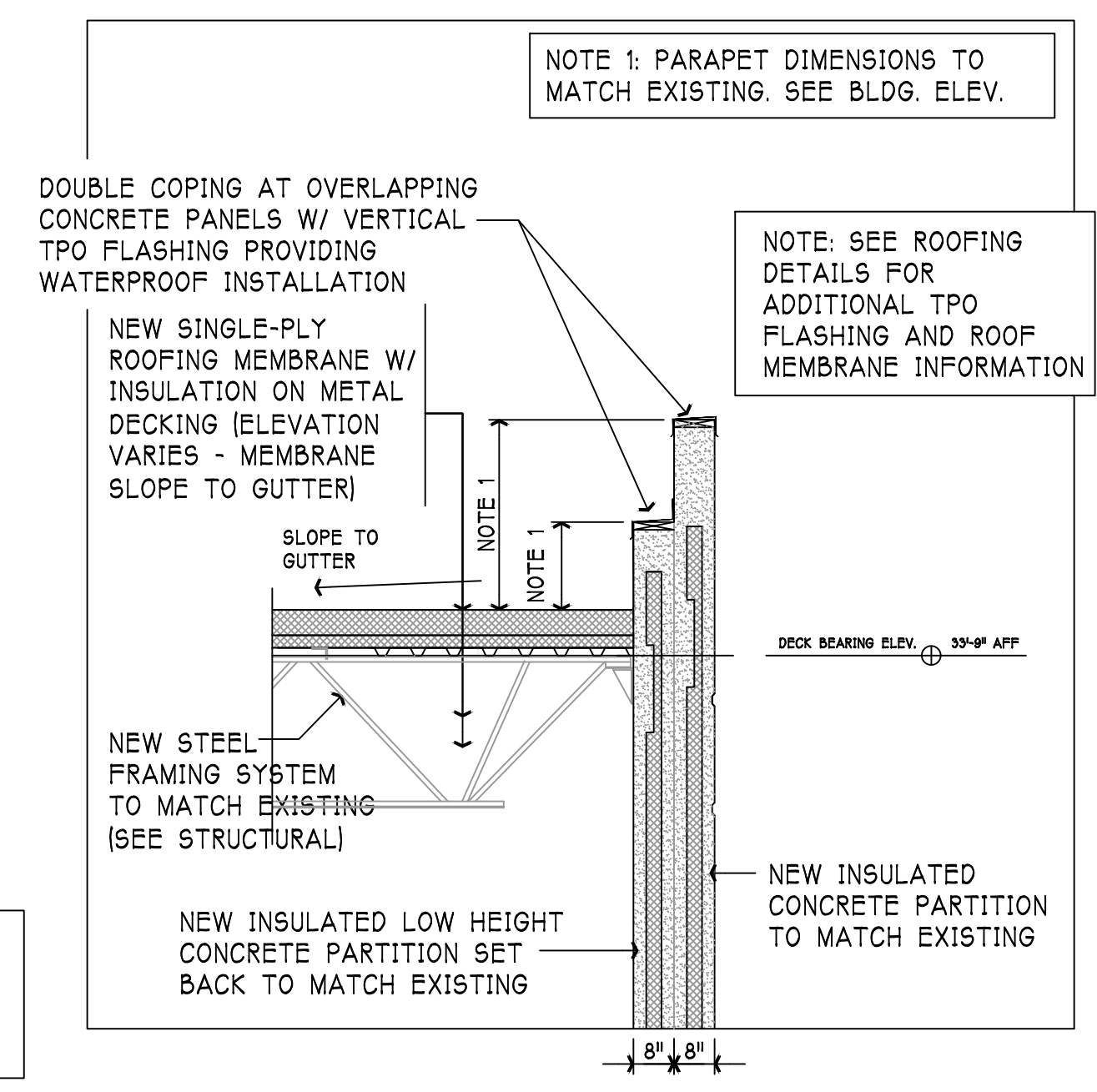
**NOTES:**  
 1. ALL DIM. INCLUDING BUT NOT LIMITED TO THE REVEALS, PANEL WIDTHS/HEIGHT, DECK BEARING ELEVATION, ETC. ARE TO BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH ALL TRADES.  
 2. THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.



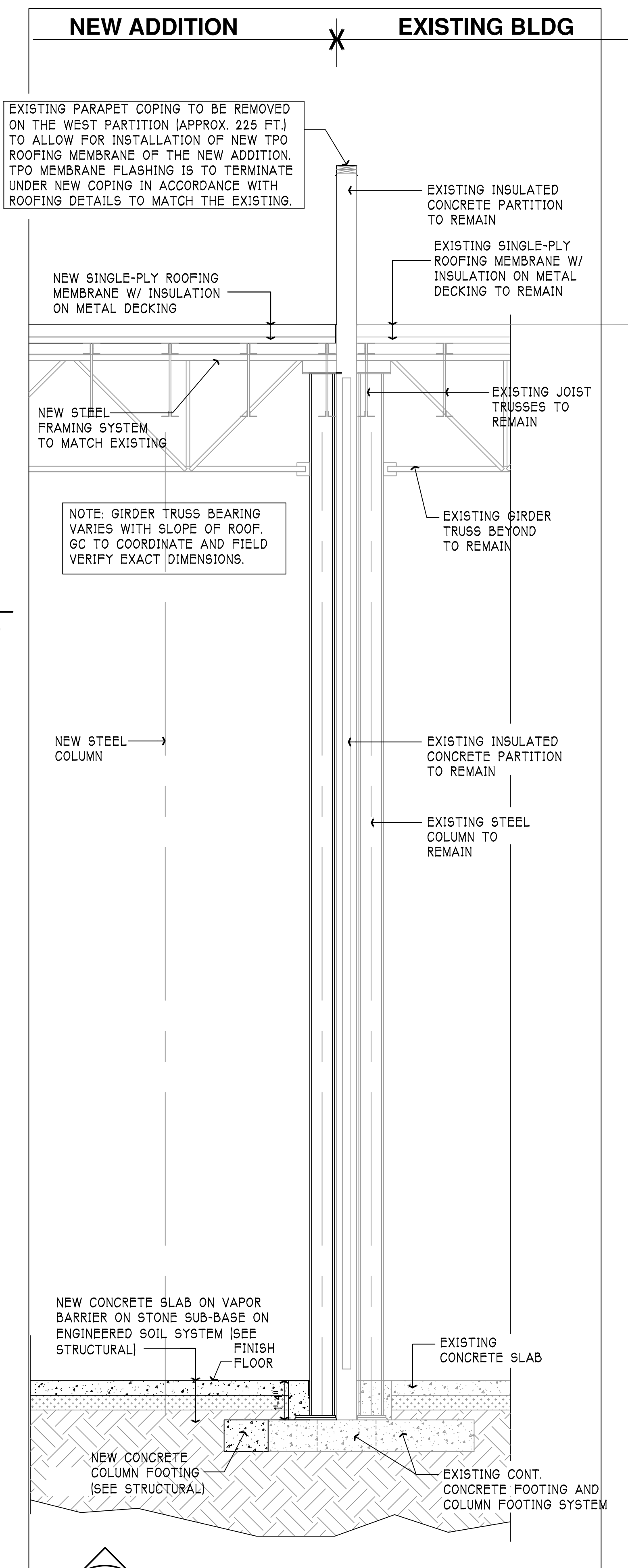
**H A2** WALL SECTION  
 SCALE: 3/8" = 1'-0" 14 FT SECT. DOOR AT DOCK RAMP



**I A2** WALL SECTION  
 SCALE: 3/8" = 1'-0" AT SECT. DOOR AND DUMPSTER



**K A2** PARTIAL WALL SECT.  
 SCALE: 3/8" = 1'-0" AT DOUBLE STACKED WALL



**J A2** WALL SECTION  
 SCALE: 3/8" = 1'-0" AT EXISTING BUILDING

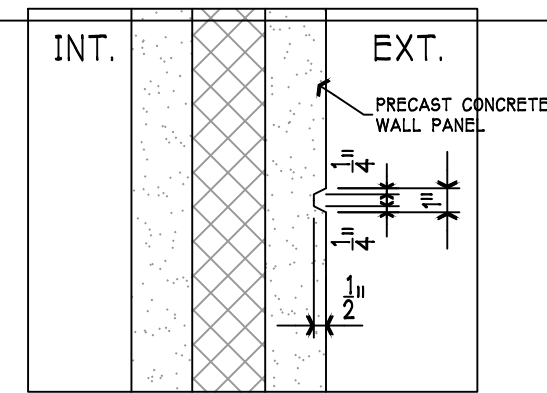
RICHARD L. WORLEY  
**ARCHITECT A.I.A.**  
 4078 HAYWOOD ROAD - MILLS RIVER, NORTH CAROLINA 28759

AN ADDITION TO  
 THE TRANSYLVANIA COUNTY ECONOMIC ALLIANCE  
**SYLVAN VALLEY INDUSTRIAL PARK**  
 BREVARD, NORTH CAROLINA



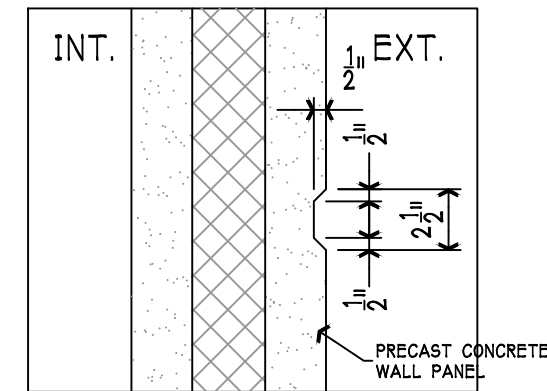
DATE: 4 APR 2024

SHEET: **A8**



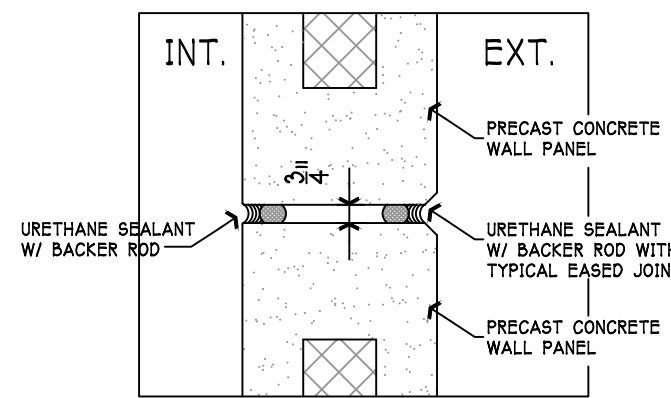
**A REVEAL PROFILE**

NOTE: COORDINATE ALL PROFILES WITH PRECAST CONCRETE MANUFACTURE TO MATCH AND MEMBER WITH EXISTING WALL PROFILES



**B REVEAL PROFILE**

NOTE: COORDINATE ALL PROFILES WITH PRECAST CONCRETE MANUFACTURE TO MATCH AND MEMBER WITH EXISTING WALL PROFILES



**C TYP. CONST. JT.**

SIMILAR CJ TO USED AT ALL PRECAST CONC. JOINTS CREATED BY VARIOUS PANEL CONFIGURATIONS. COORDINATE CALK AT ANY JOINT AT FIRE RATING.

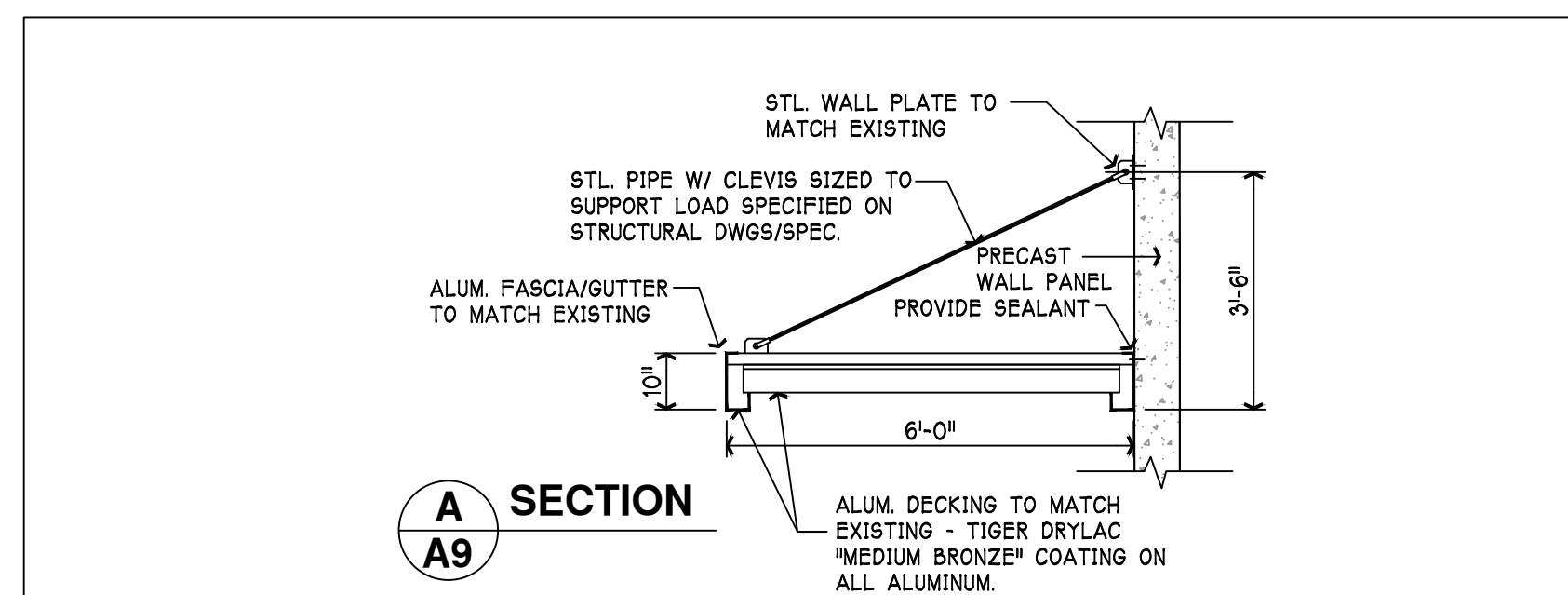
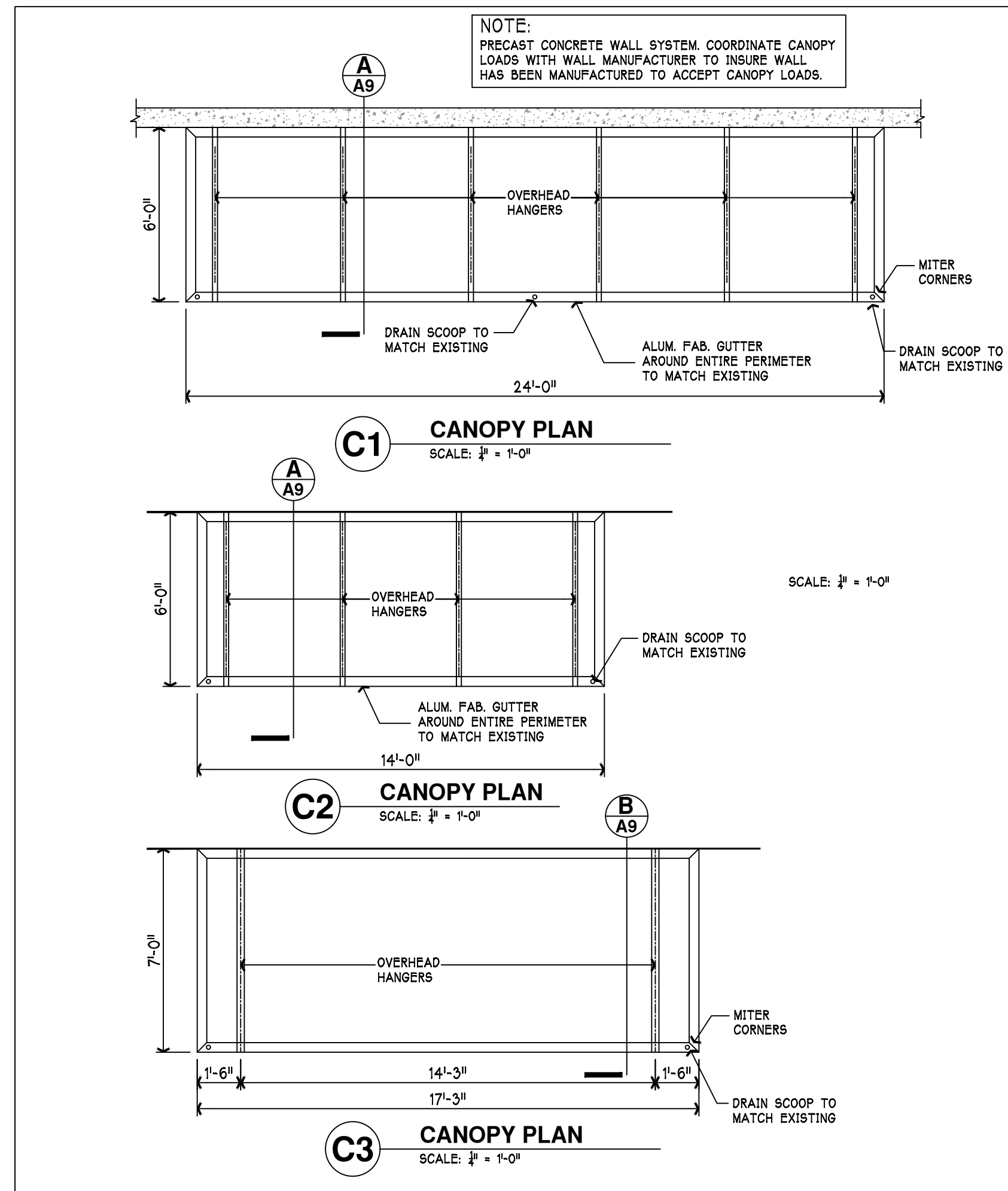
# MISC. SECTION

SCALE: 1-1/2" = 1'-0"

**NOTES:**

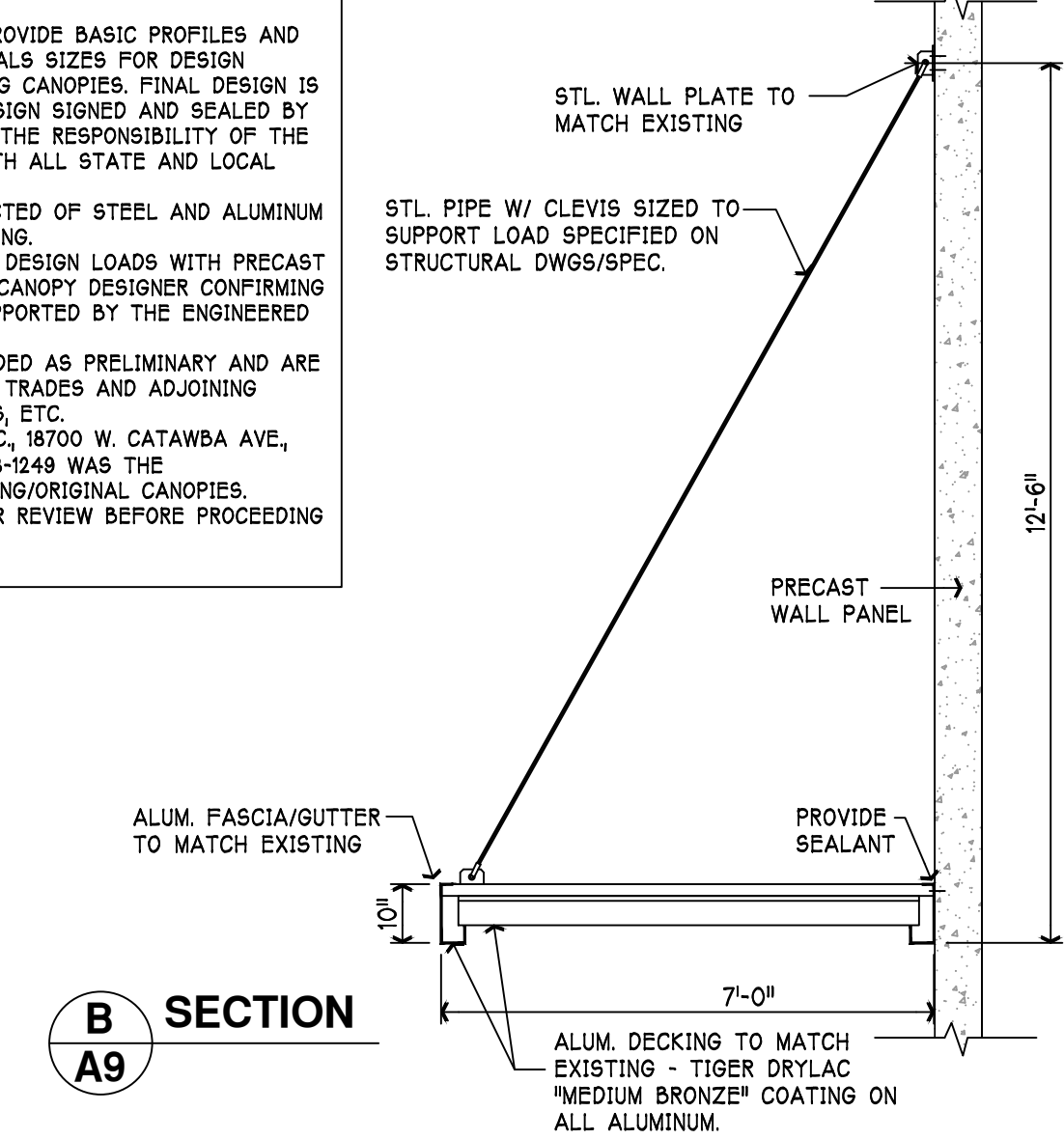
1. GENERAL CONTRACTOR AND ALUMINUM FRAME MANUFACTURER/INSTALLER TO VERIFY ALL DIMENSION AND COORDINATE DIMENSIONS WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE PRECAST CONCRETE WALL PANEL MANUFACTURER THAT WILL HAVE SPECIFIC REVEALS AND TAPERED SURFACES TO PROVIDE POSITIVE WATER DRAINAGE TO THE EXTERIOR OF THE BUILDING.
2. GENERAL CONTRACTOR TO COORDINATE EXACT CONSTRUCTION JOINT DIMENSIONS AND LOCATIONS WITH PRECAST CONCRETE WALL MANUFACTURER WHICH MAY VARY DURING FINAL FABRICATION PROCESS.

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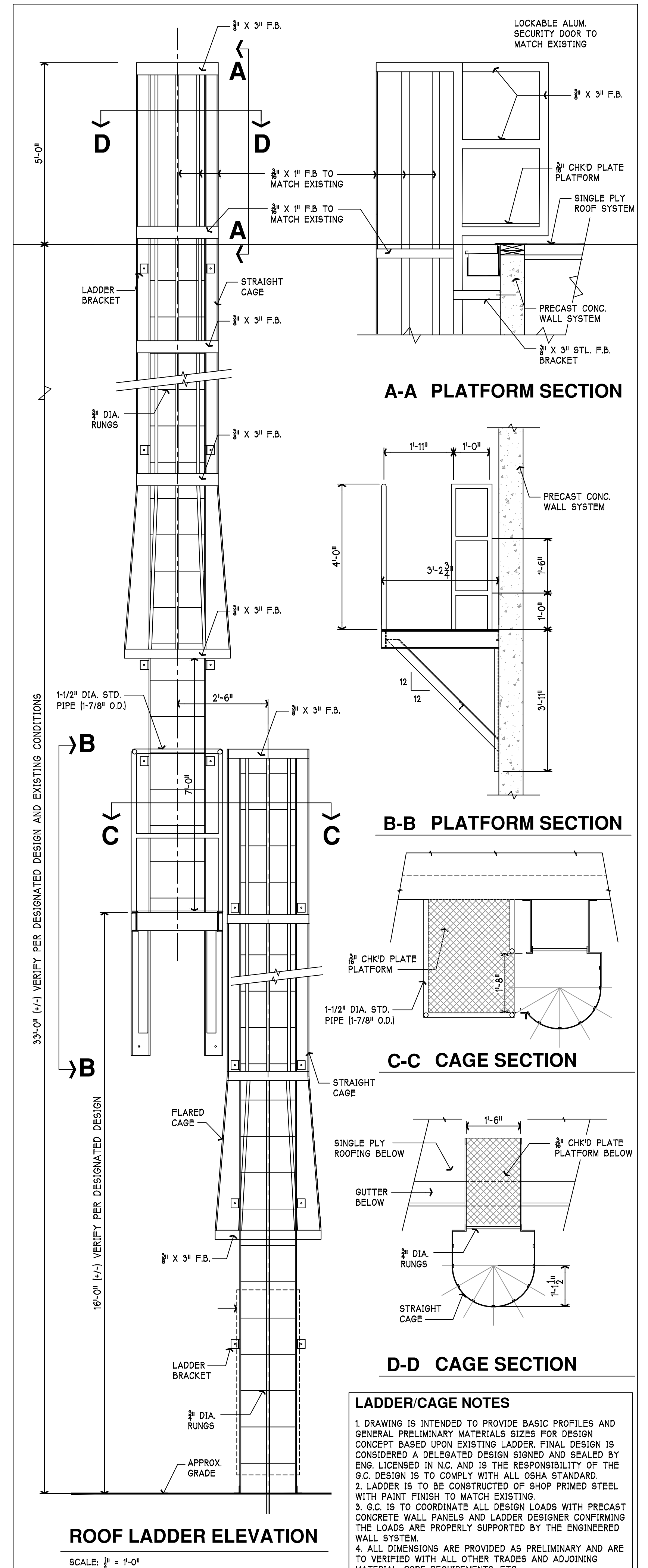
**CANOPY NOTES**

1. DRAWING IS INTENDED TO PROVIDE BASIC PROFILES AND GENERAL PRELIMINARY MATERIALS SIZES FOR DESIGN CONCEPT BASED UPON EXISTING CANOPIES. FINAL DESIGN IS CONSIDERED A DELEGATED DESIGN SIGNED AND SEALED BY ENG. LICENSED IN N.C. AND IS THE RESPONSIBILITY OF THE G.C. DESIGN IS TO COMPLY WITH ALL STATE AND LOCAL CODES.
2. CANOPY IS TO BE CONSTRUCTED OF STEEL AND ALUMINUM WITH FINISH TO MATCH EXISTING.
3. G.C. IS TO COORDINATE ALL DESIGN LOADS WITH PRECAST CONCRETE WALL PANELS AND CANOPY DESIGNER CONFIRMING THE LOADS ARE PROPERLY SUPPORTED BY THE ENGINEERED WALL SYSTEM.
4. ALL DIMENSIONS ARE PROVIDED AS PRELIMINARY AND ARE TO BE VERIFIED WITH ALL OTHER TRADES AND ADJOINING MATERIAL, CODE REQUIREMENTS, ETC.
5. RESOLUTE FABRICATORS, LLC, 18700 W. CATAWBA AVE, CORNELIUS, N.C. 28001 (704) 728-1249 WAS THE MANUFACTURER OF THE EXISTING ORIGINAL CANOPIES.
6. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.



## CANOPY PLANS SECTIONS AND DET.

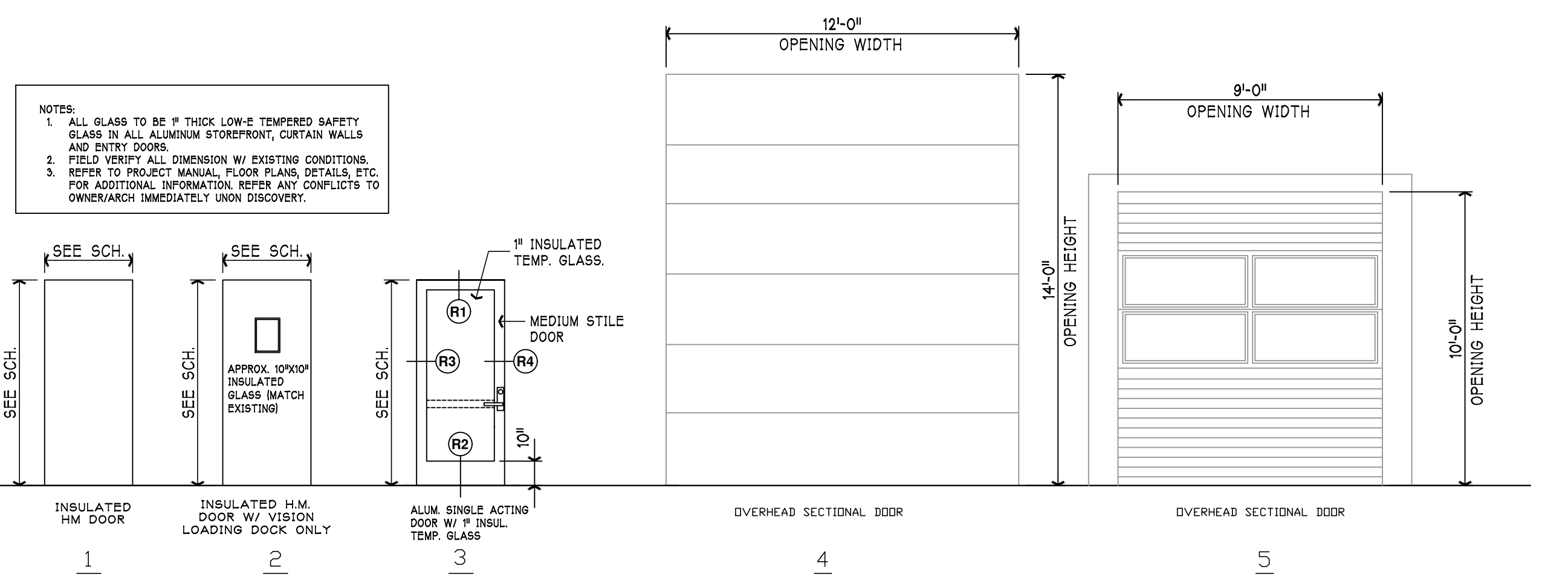
SCALE: 3/8" = 1'-0"



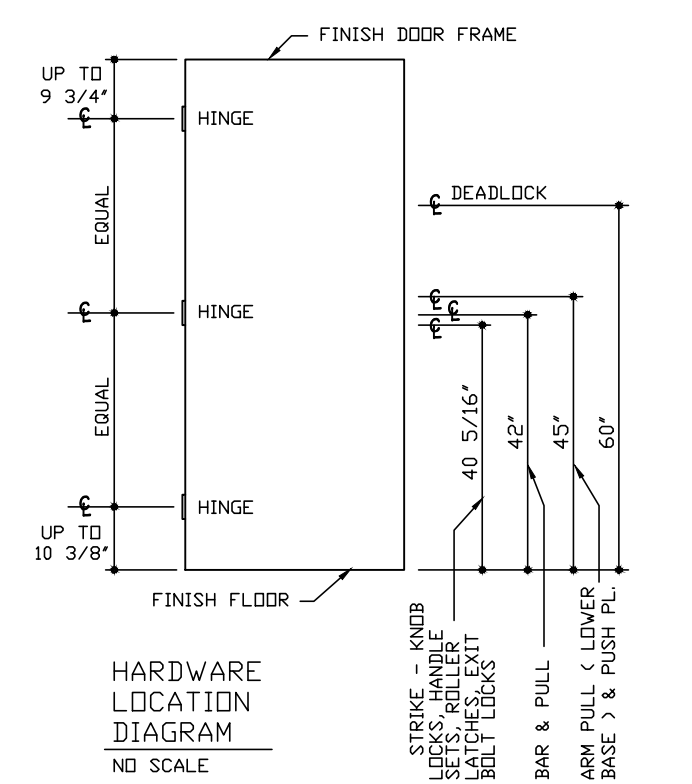


**DOOR & FRAME SCHEDULE**

SPECIAL NOTES	DOOR NUMBER	DOOR				FRAME				REMARKS						
		SIZE		GLASS	LOUVER	DETAIL										
		PAIR	WIDTH			HEIGHT	THICKNESS	MATERIAL	TYPE		HEAD	JAMB	THRESHOLD			
2	100A		3'-0"	7'-0"	1-3/4"	AL	3			X	AL	X	X	1	X	INSUL. TEMP. GL. DR.
2	100B		3'-0"	7'-0"	1-3/4"	AL	3			X	AL	X	X	1	X	INSUL. TEMP. GL. DR.
X	100C		3'-0"	7'-0"	1-3/4"	HM	1			X	HM	A	1	2	X	
X	100D		3'-0"	7'-0"	1-3/4"	HM	1			X	HM	A	1	2	X	
X	100E		3'-0"	7'-0"	1-3/4"	HM	2	10"	10"	X	HM	A	1	2	45	INSUL. TEMP. GL. DR.
X	100F		3'-0"	7'-0"	1-3/4"	HM	2	10"	10"	X	HM	A	1	2	45	INSUL. TEMP. GL. DR.
1	100W		12'-0"	14'-0"	2"	STL	4			X	X	B	2	X	X	
X	100X		9'-0"	10'-0"	2"	STL	5			X	X	B	2	X	X	
X	100Y		9'-0"	10'-0"	2"	STL	5			X	X	B	2	X	X	
X	100Z		9'-0"	10'-0"	2"	STL	5			X	X	B	2	X	X	



**H.M. DOOR TYPES**  
SCALE 1/4" = 1'-0"



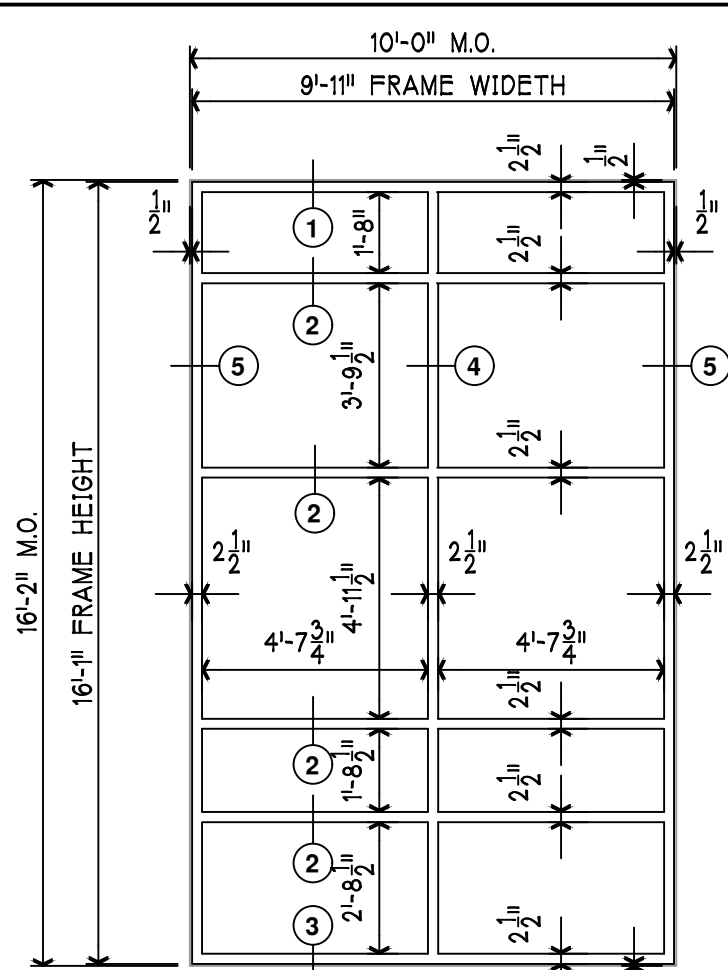
**HARDWARE LOCATION DIAGRAM**  
NO SCALE

**GENERAL DOOR/HARDWARE NOTES:**

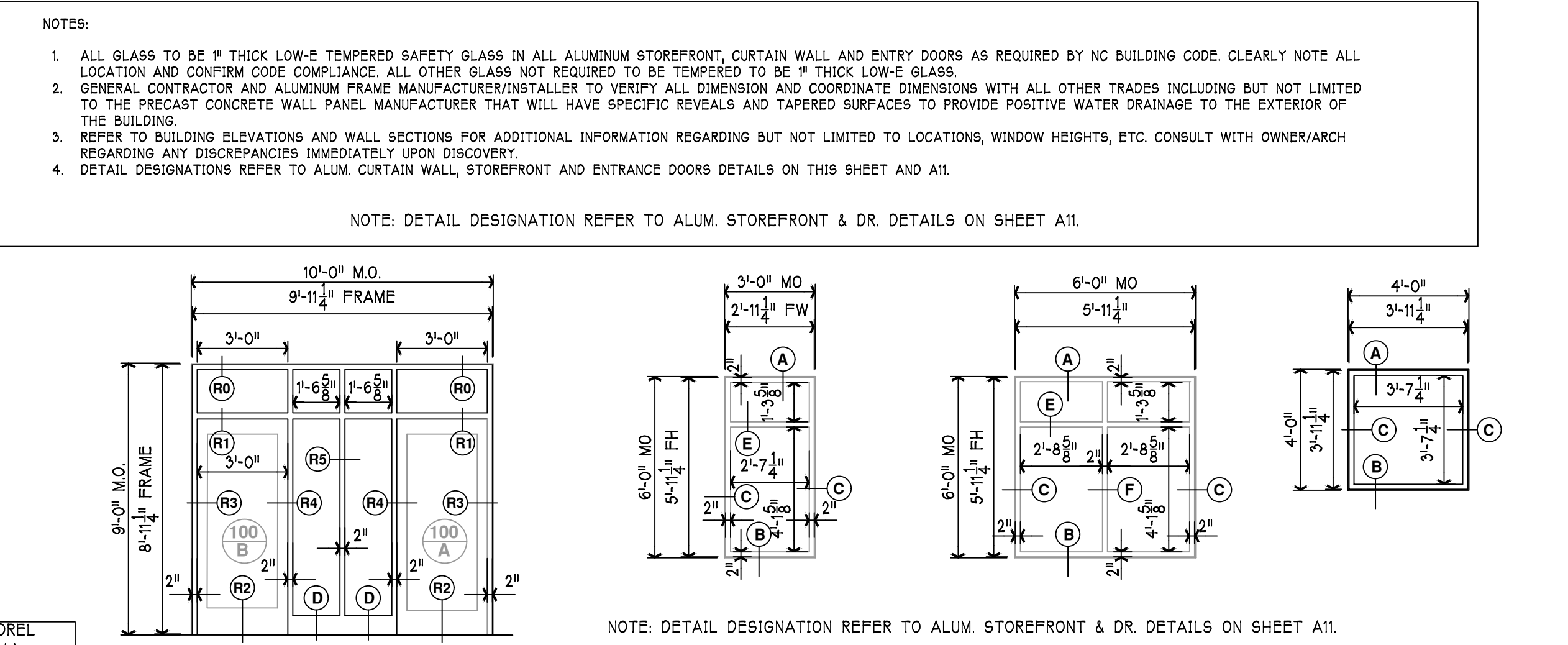
- ALL EXTERIOR HM DOORS AND FRAMES TO BE GALVANIZED - SEE SPEC.
- CAULK AROUND HM AND ALUM DOOR FRAMES AT DISSIMILAR MATERIALS. SEE DETAILS.
- .
- .
- .
- .

**SPECIAL DOOR/HARDWARE NOTES:**

- ALTERNATE #1: DOOR TO INCLUDE LIFTMASTER HEAVY DUTY DOOR ELECTRIC OPERATOR W/ PUSH BUTTONS & REMOTE (SEE SECTIONAL DOOR SECTION OF SPEC).
- SEE ALUMINUM DOOR AND FRAME DETAILS ON THIS SH. AND A11 FOR ADDITIONAL INFORMATION.
- .
- .
- .
- .
- .



**ALUM. CURTAIN WALL FRAME**  
SCALE 1/4" = 1'-0"



**ALUMINUM WINDOW AND DOOR FRAMES**  
SCALE 1/4" = 1'-0"

SPECIAL NOTES	FINISH SCHEDULE												REMARKS
	SPACE	FLOOR	BASE	WALL	CLG	WSC'T	CONSTR.		FINISH	THICKNESS	TYPE	REMARKS	
							NO. BASE - EXPOSED	EXPOSED					
1	100	UNOCCUPIED SPACE					6						

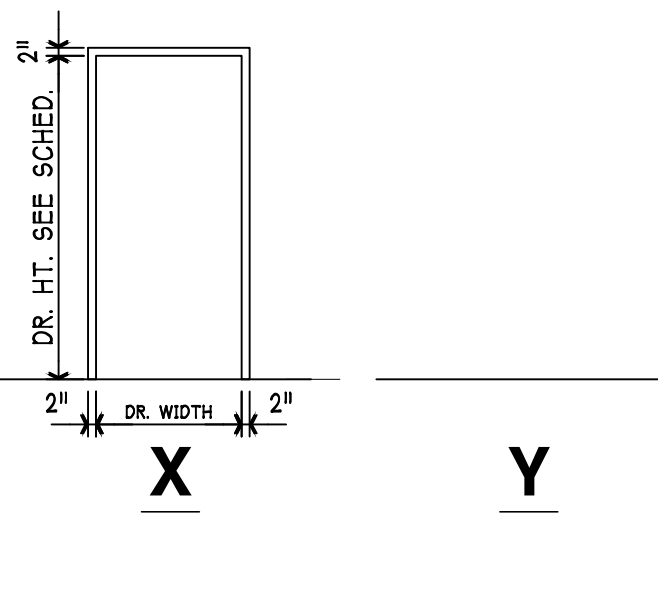
**FINISH SCHEDULE "GENERAL NOTES":**

- REFER TO SPECIFICATIONS FOR ALL FINISHES INDICATED ON THE SCHEDULE.
- .
- .
- .
- .
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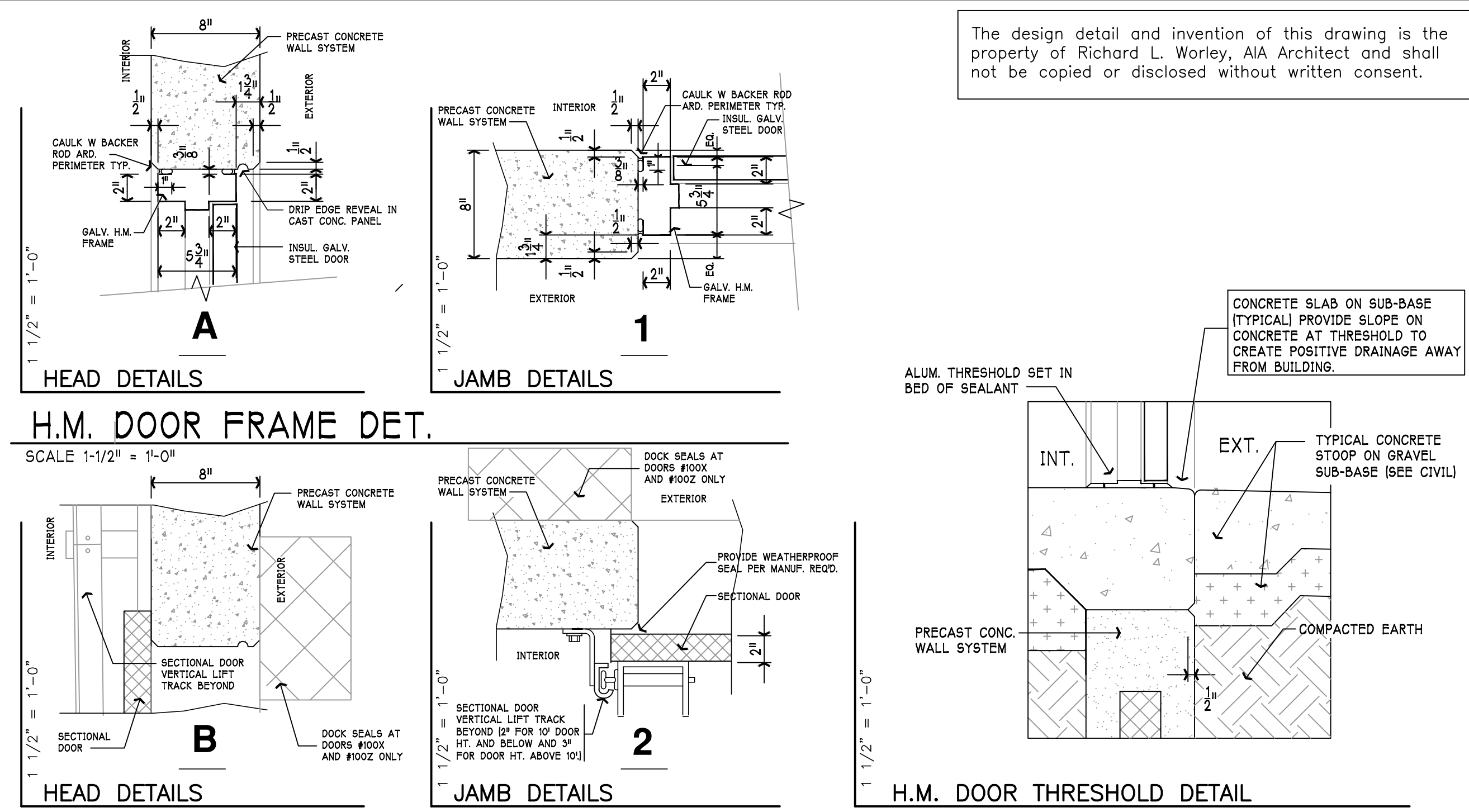
**FINISH SCHEDULE "SPECIAL NOTES":**

- CONCRETE FLOOR TO RECEIVE LIQUID FLOOR TREATMENT - SEE SPECIFICATIONS.
- .
- .
- .
- .
- .

- H.M. FRAME NOTES:
- ALL H.M. FRAMES TO BE GALVANIZED, REFER TO PROJECT MANUAL.
  - COORDINATE ALL DIMENSIONS WITH OTHER TRADES.
  - CONSULT WITH OWNER/ARCHITECT REGARDING ANY DISCREPANCIES IMMEDIATELY UPON DISCOVERY.



**H.M. FRAME ELEVATION**  
SCALE 1/4" = 1'-0"



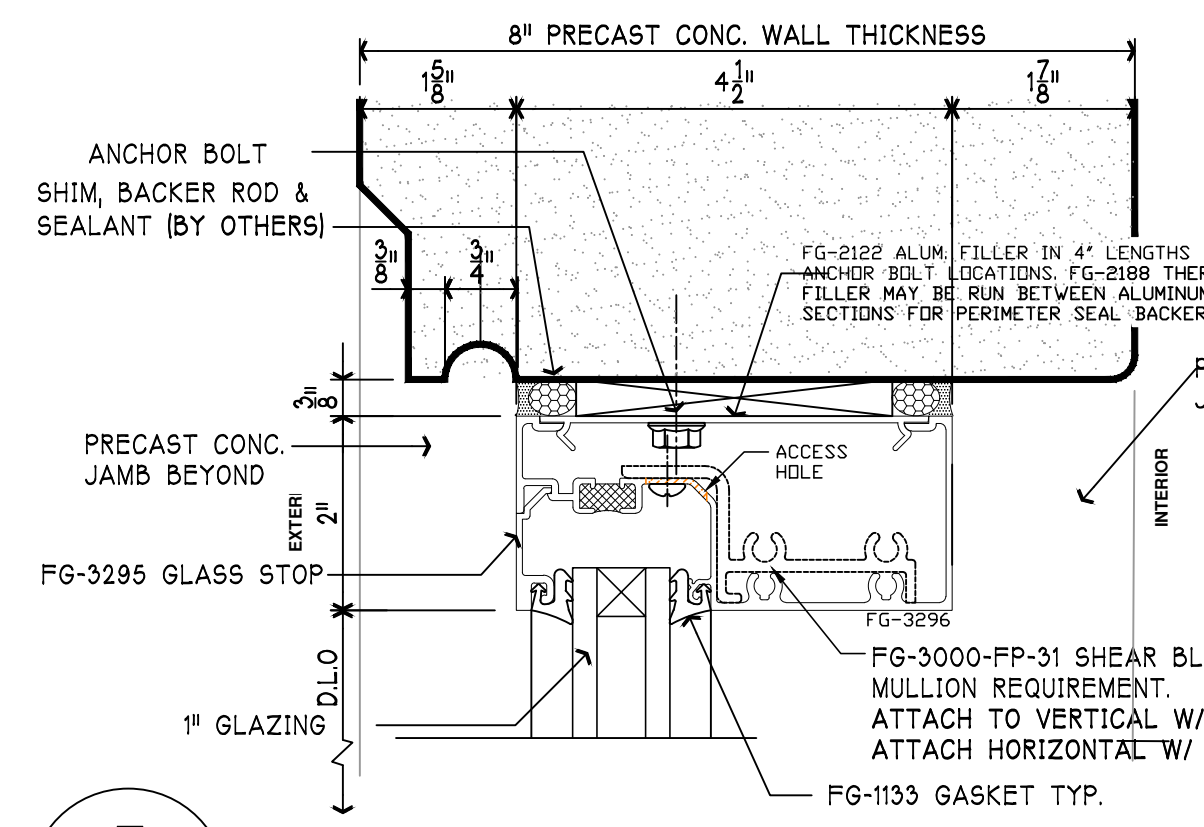
**SECTIONAL DOOR HEAD AND JAMB DET.**  
SCALE 1-1/2" = 1'-0"

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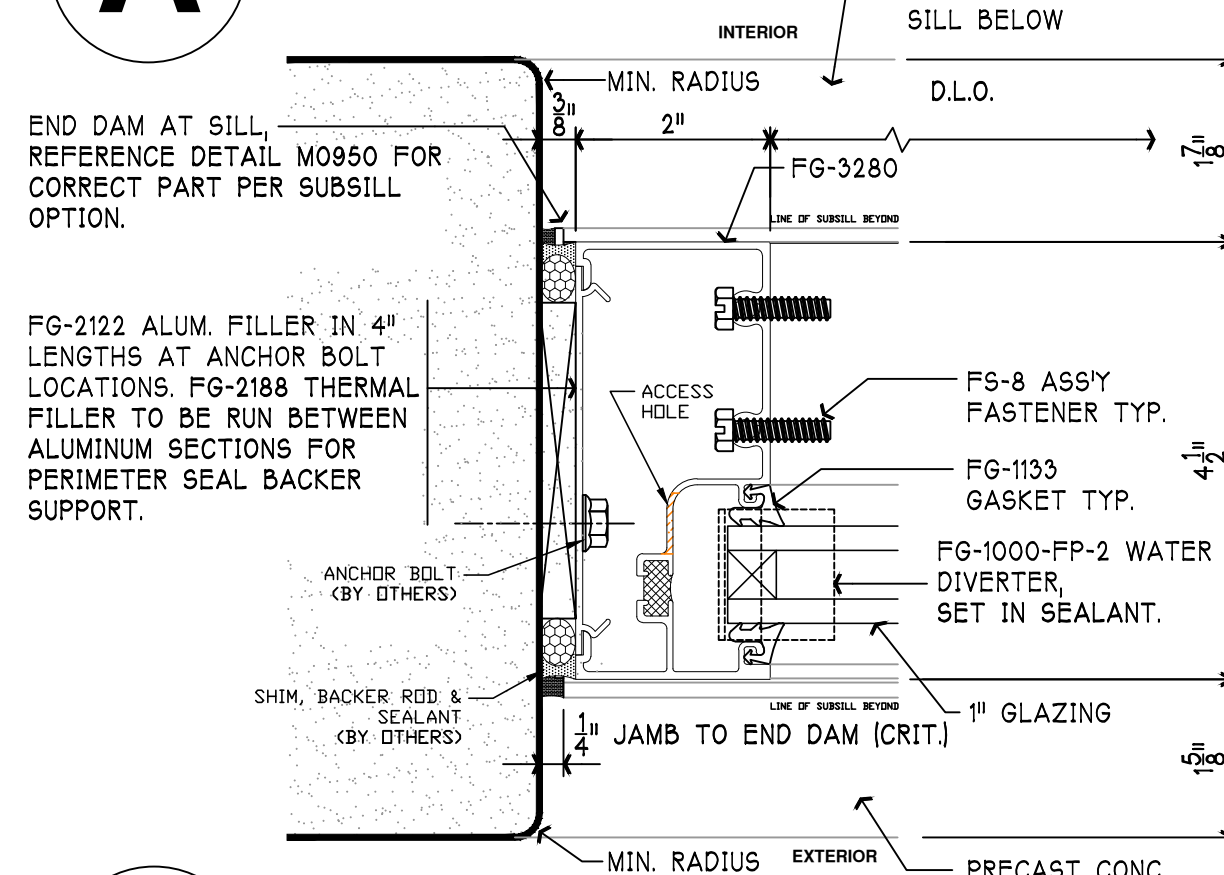
CONCRETE SLAB ON SUB-BASE (TYPICAL) PROVIDE SLOPE ON CONCRETE AT THRESHOLD TO CREATE POSITIVE DRAINAGE AWAY FROM BUILDING.

COMPACTED EARTH

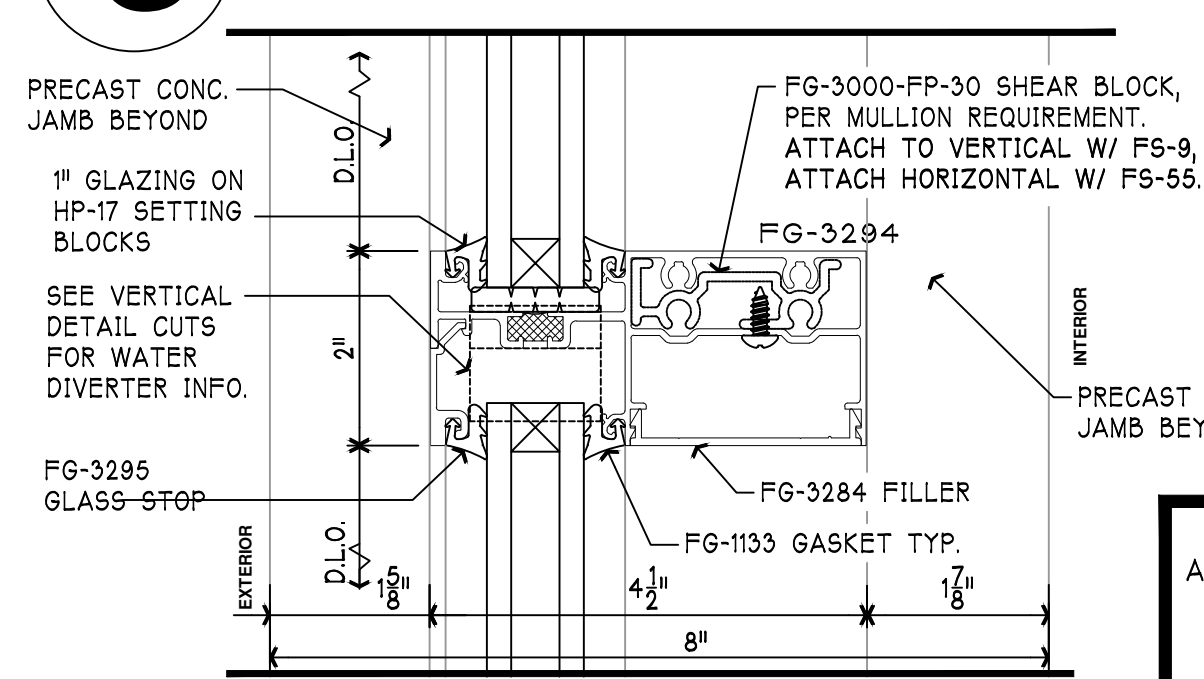
**H.M. DOOR THRESHOLD DETAIL**  
SCALE 1 1/2" = 1'-0"



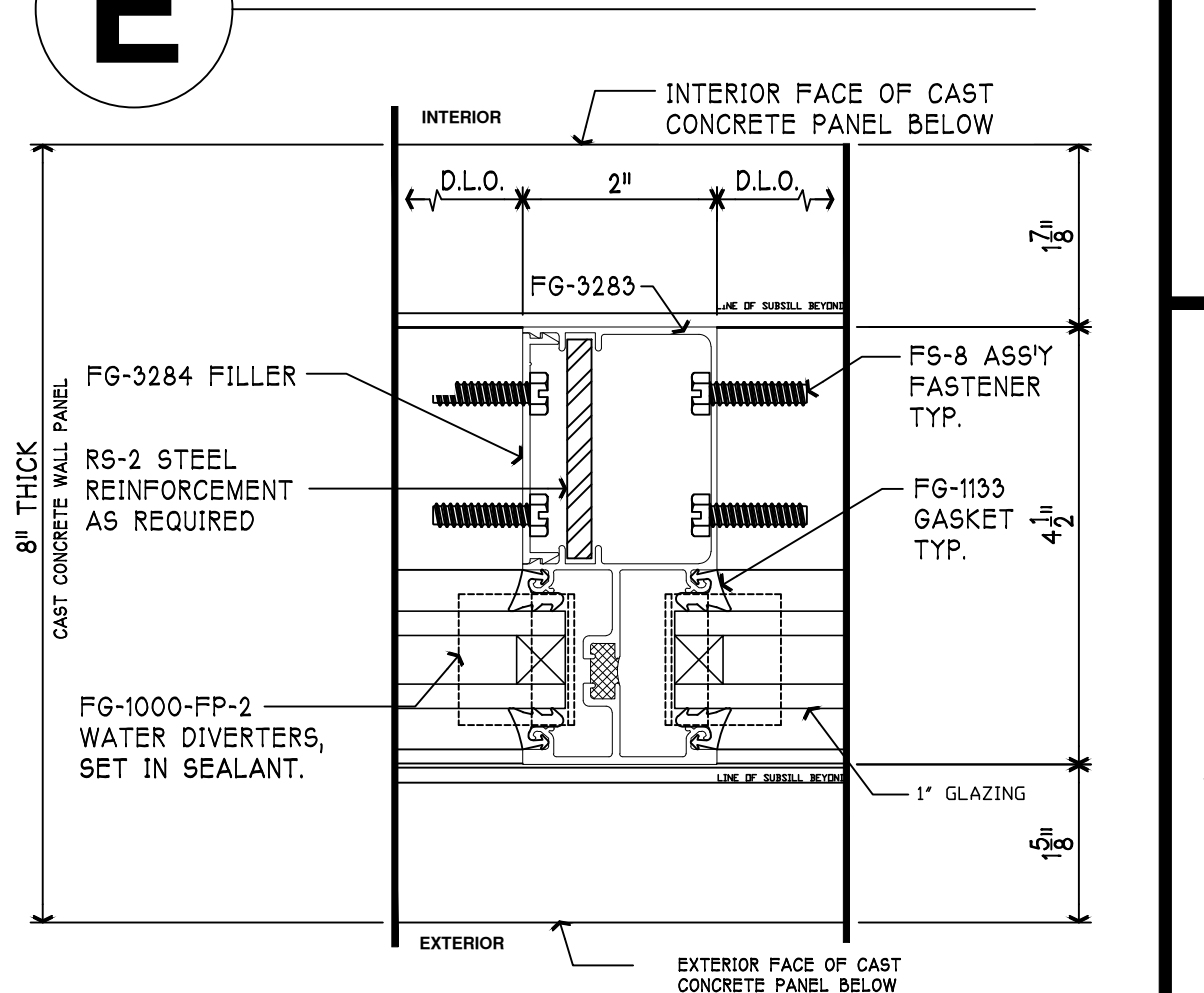
**A** Head - Outside Glazed - H4102



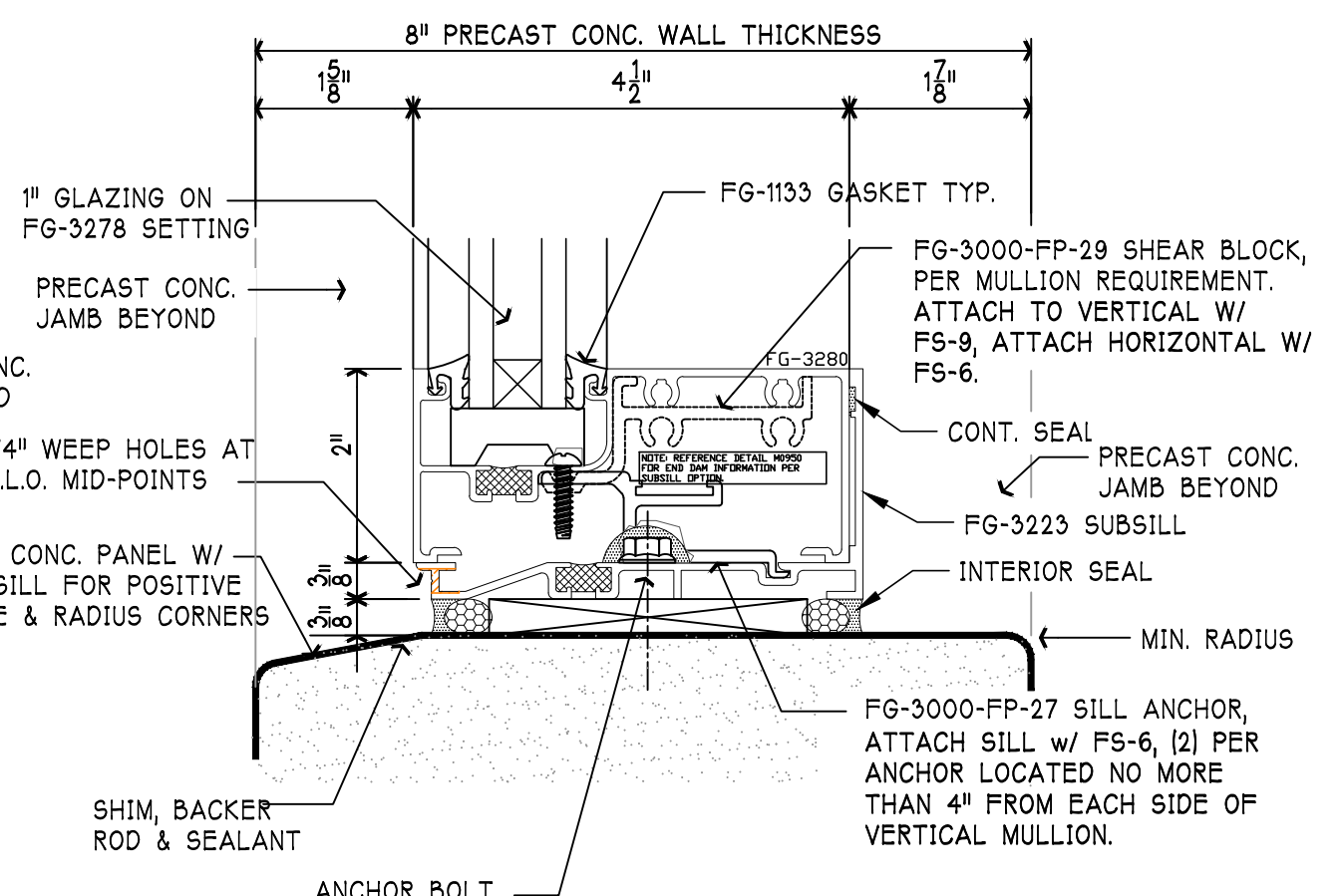
**C** Jamb - V4102



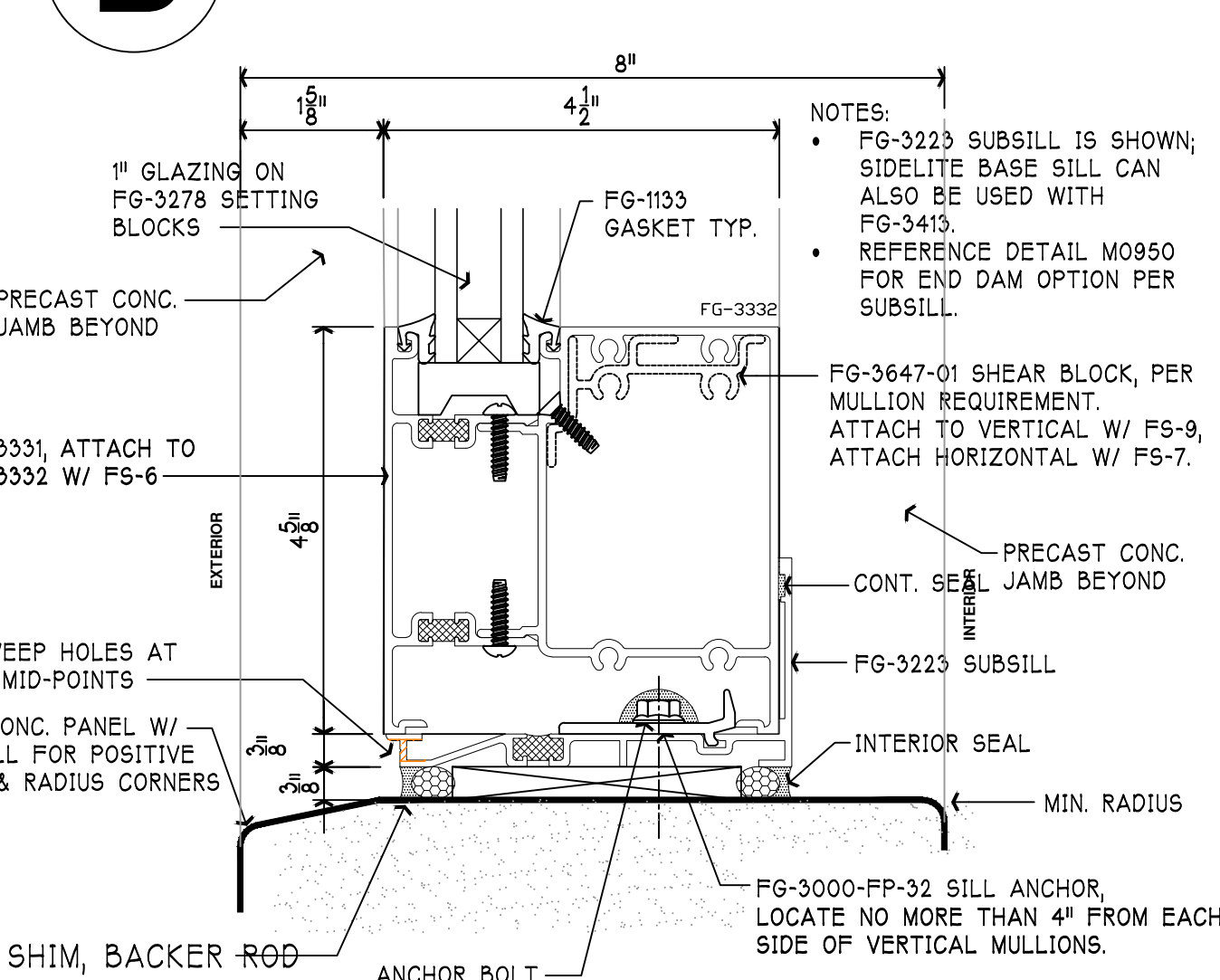
**E** Inter Horizontal - H4101



**F** Typical Vertical - V4106

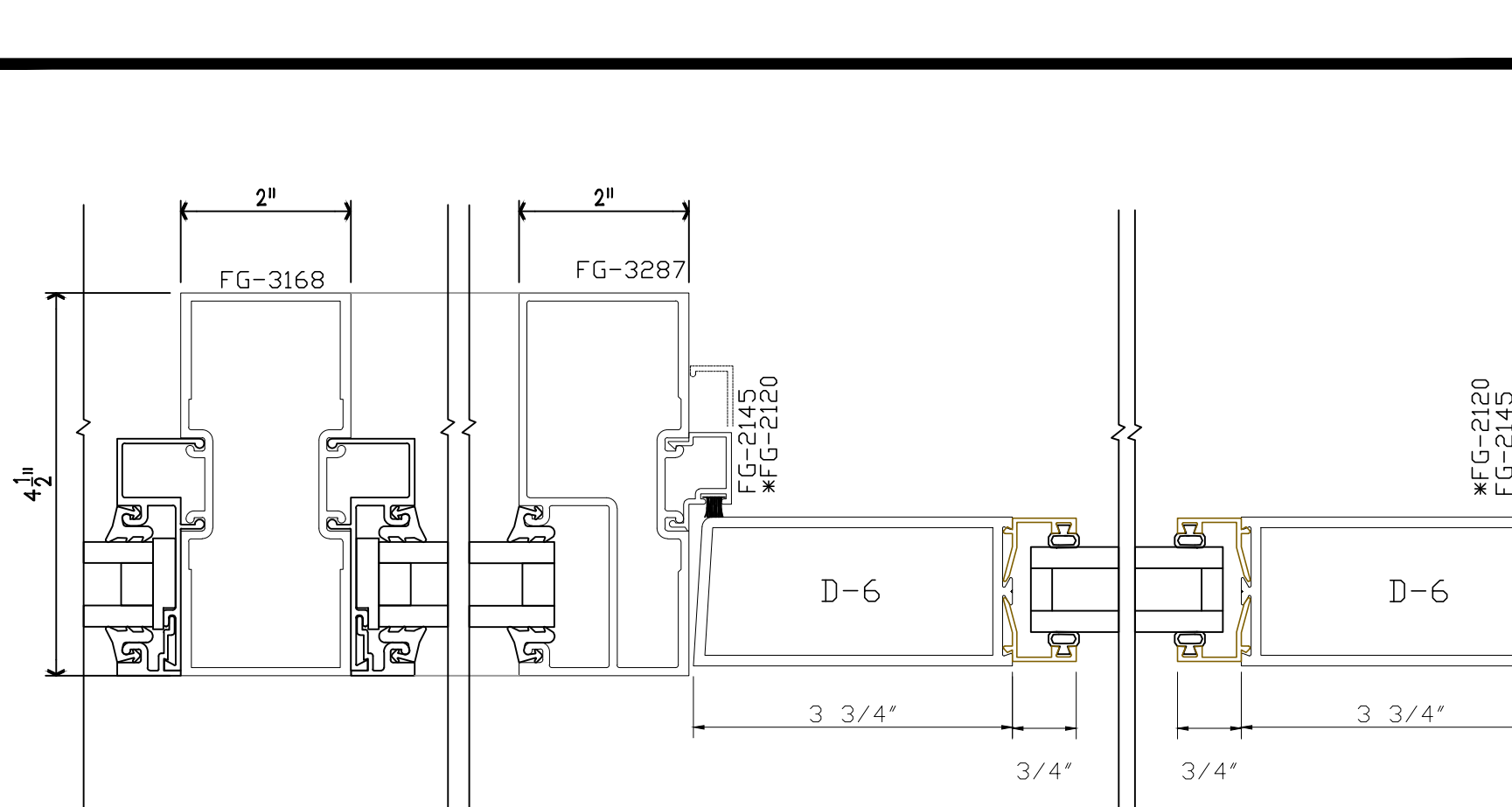


**B** Sill - H4109



**D** Sidelite Base Sill - H4143

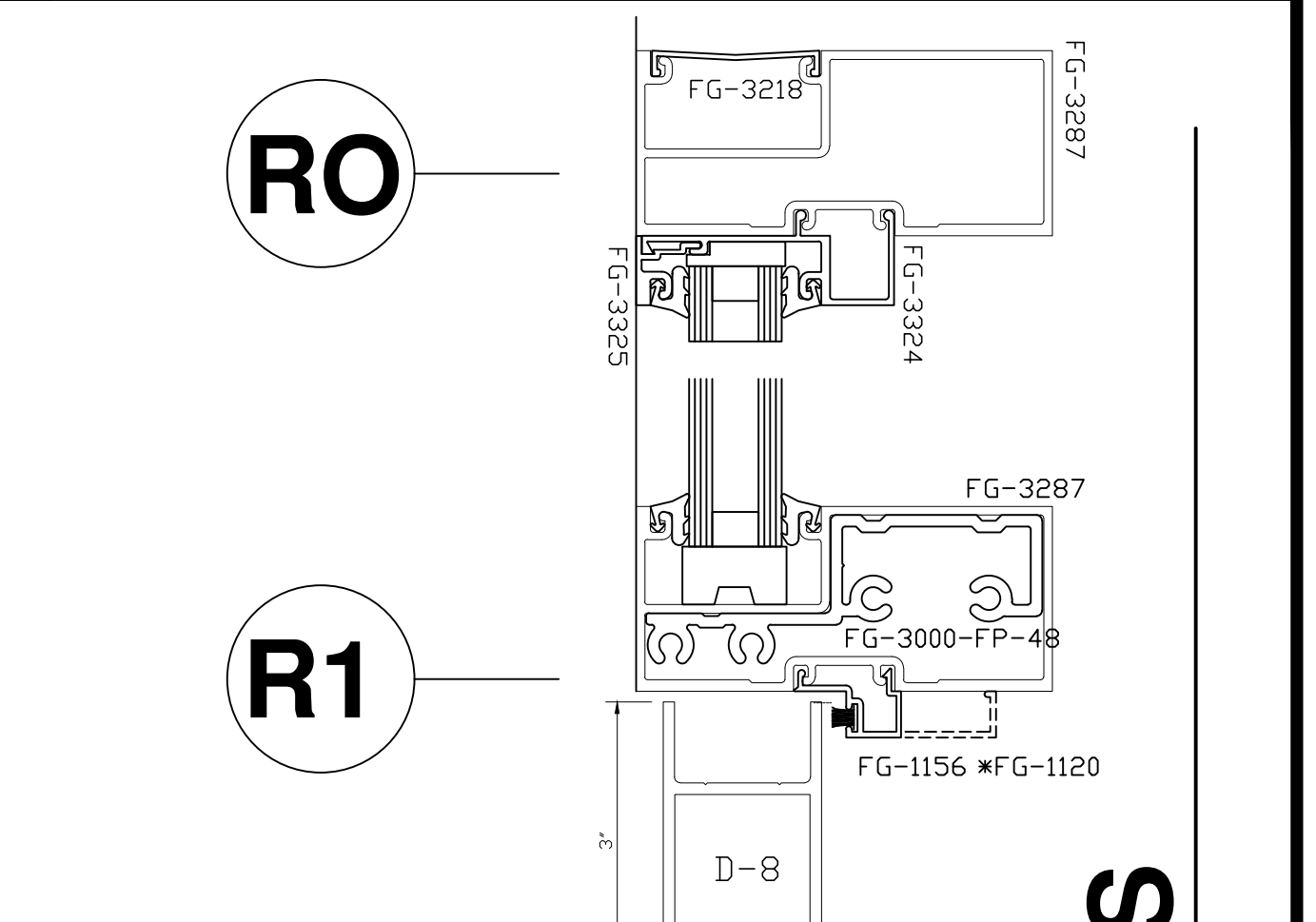
- ALUMINUM CURTAIN WALL, STOREFRONT AND ENTRANCE NOTES:
1. ALL GLASS TO BE 1" THICK LOW-E TEMPERED SAFETY GLASS IN ALL ALUMINUM STOREFRONT, CURTAIN WALL AND ENTRY DOORS.
  2. GENERAL CONTRACTOR AND ALUMINUM FRAME MANUFACTURER/INSTALLER TO VERIFY ALL DIMENSION AND COORDINATE DIMENSIONS AND WALL OPENING PROFILES WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE PRECAST CONCRETE WALL PANEL MANUFACTURER THAT WILL HAVE SPECIFIC REVEALS AND TAPERED SURFACES TO PROVIDE POSITIVE WATER DRAINAGE TO THE EXTERIOR OF THE BUILDING.
  3. BASIS OF DESIGN IS OLD CASTLE BUILDING ENVELOPE SYSTEM: A. FG3000 2" X 4-1/2" THERMALLY BROKE STOREFRONT FRAMING AND B. CURTAIN WALL RELIANCE 2-1/2" X 7-1/4" WITH ALL SYSTEMS INCLUDING A MIN. 5 YR. MATERIAL WARRANTY.
  4. ALL ANCHOR BOLTS AND FASTENERS TO BE DESIGNED AND INSTALLED TO COMPLY WITH ALL CODE REQUIREMENTS AND STRUCTURAL REQUIREMENTS OUTLINED IN THE STRUCTURAL DRAWINGS/SPECIFICATION AND IN ACCORDANCE WITH ALUM. MANUFACTURER'S REQUIREMENTS FOR SPECIFIED WARRANTY.



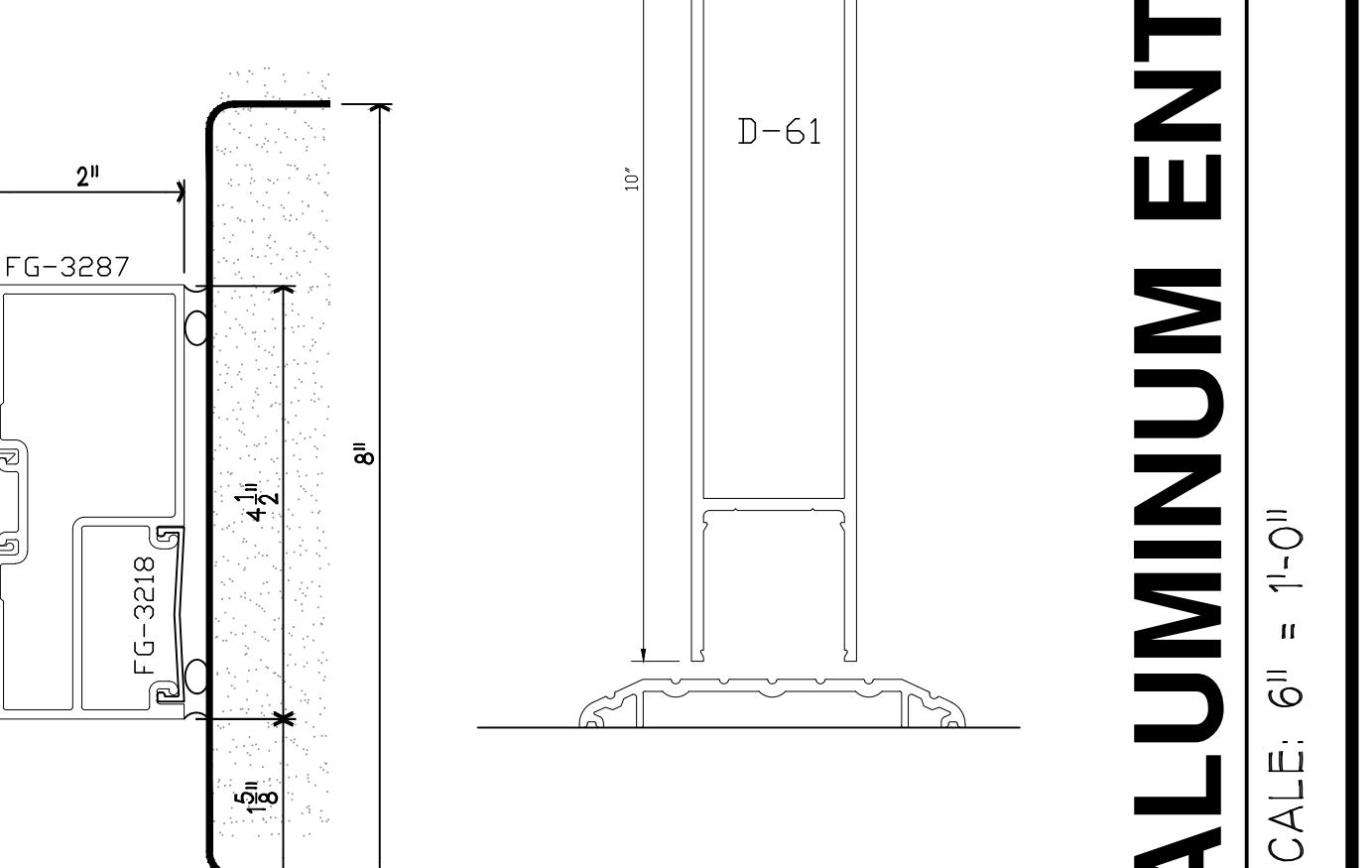
**R5** **R4** **R3**

**ALUMINUM STOREFRONT DETAILS**

SCALE: 6" = 1'-0"



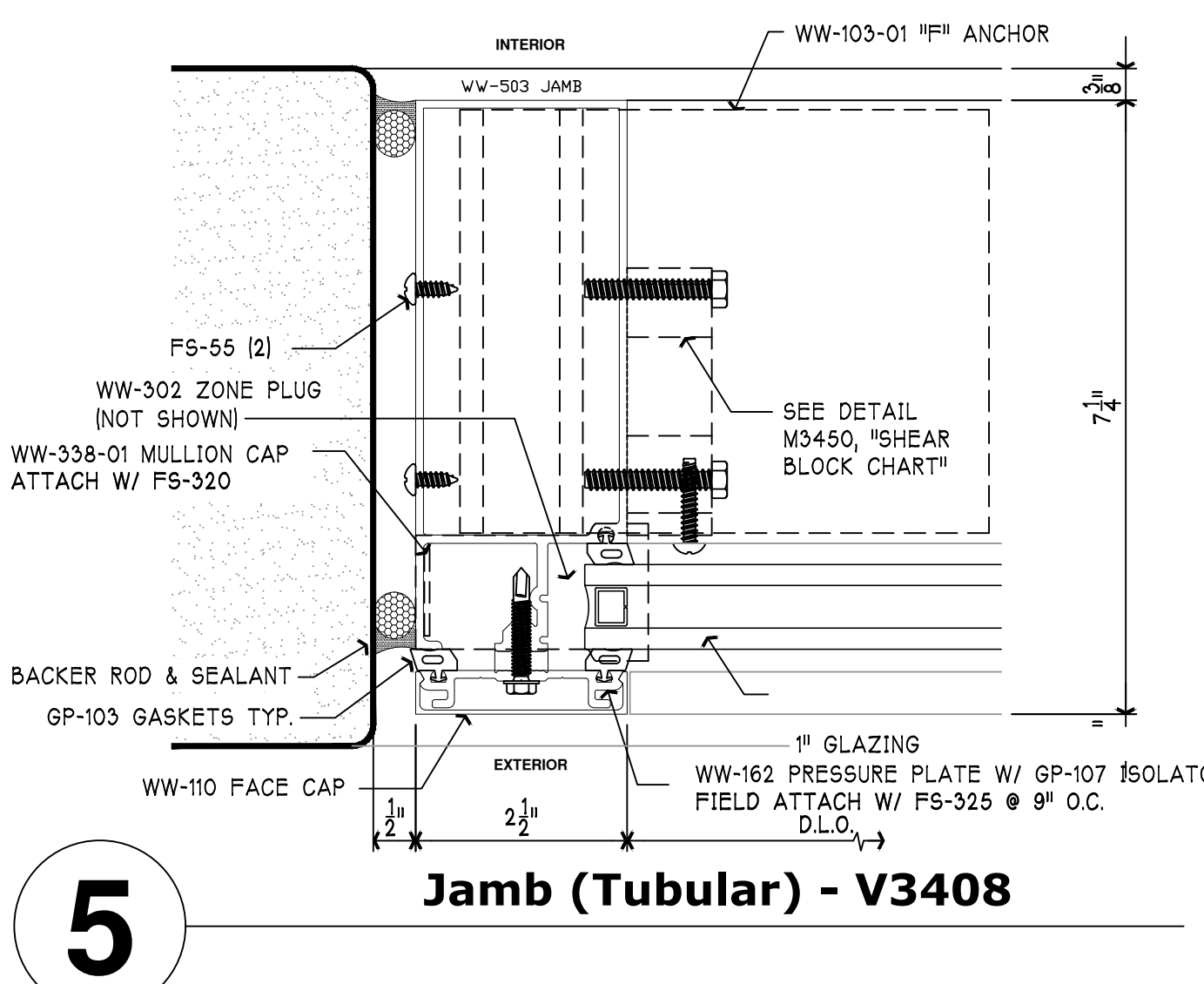
**RO** **R1**



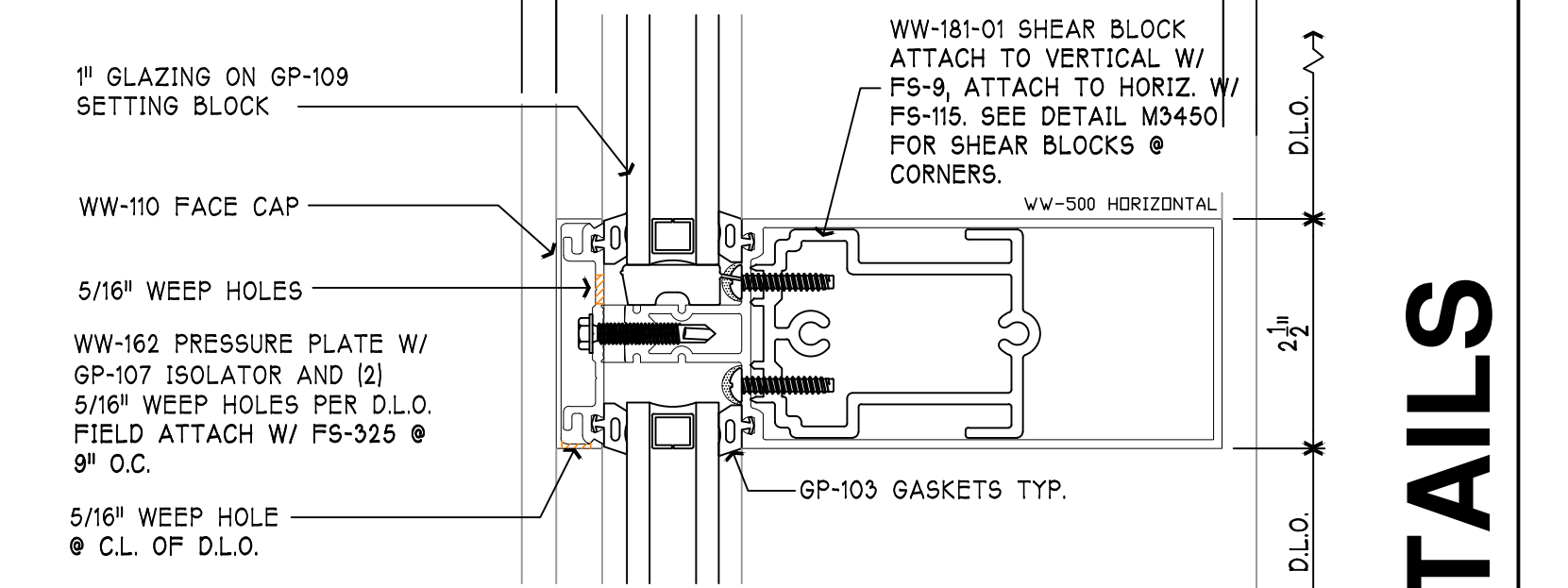
**R2**

**ALUMINUM ENTRANCE DETAILS**

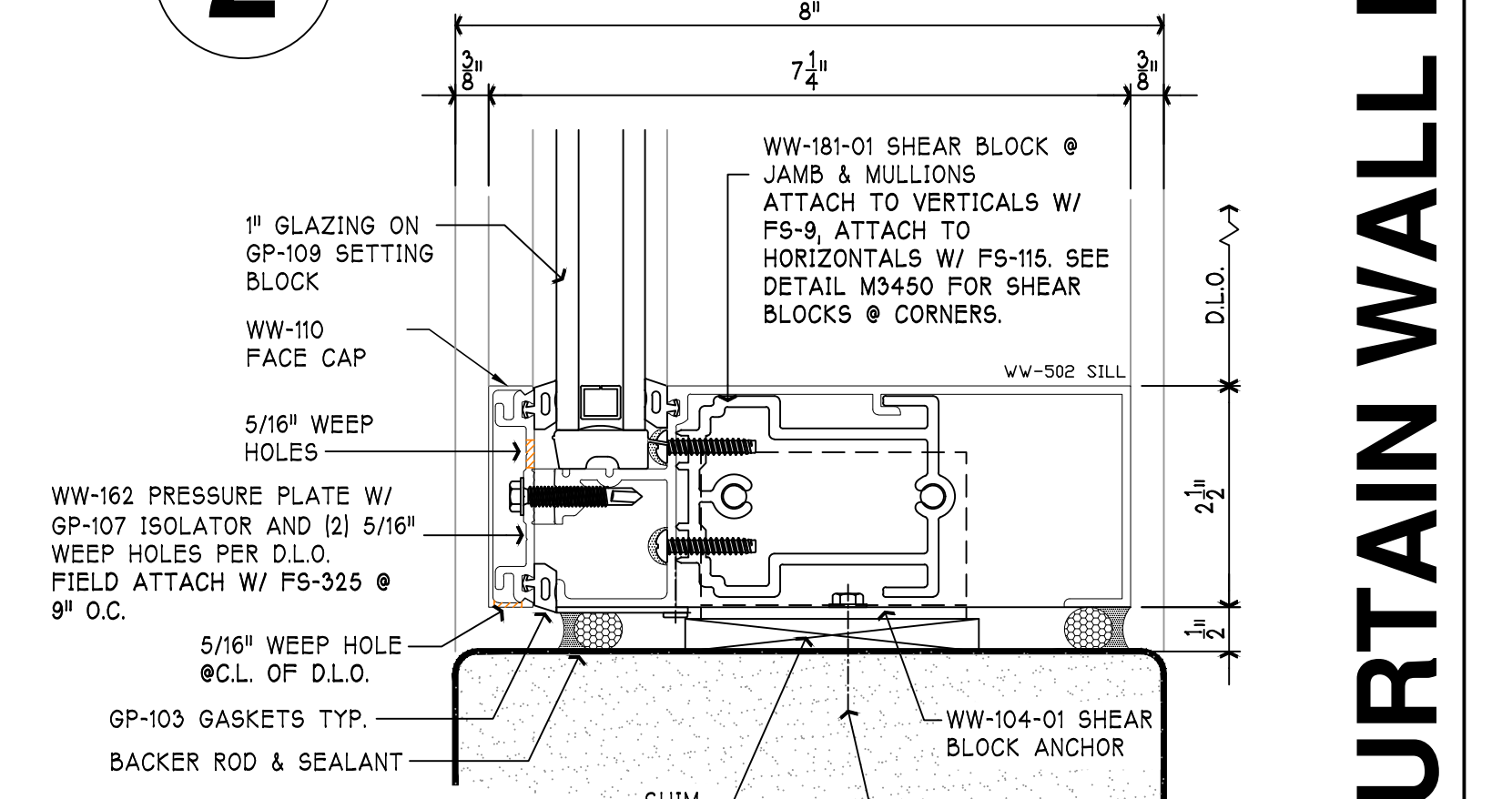
SCALE: 6" = 1'-0"



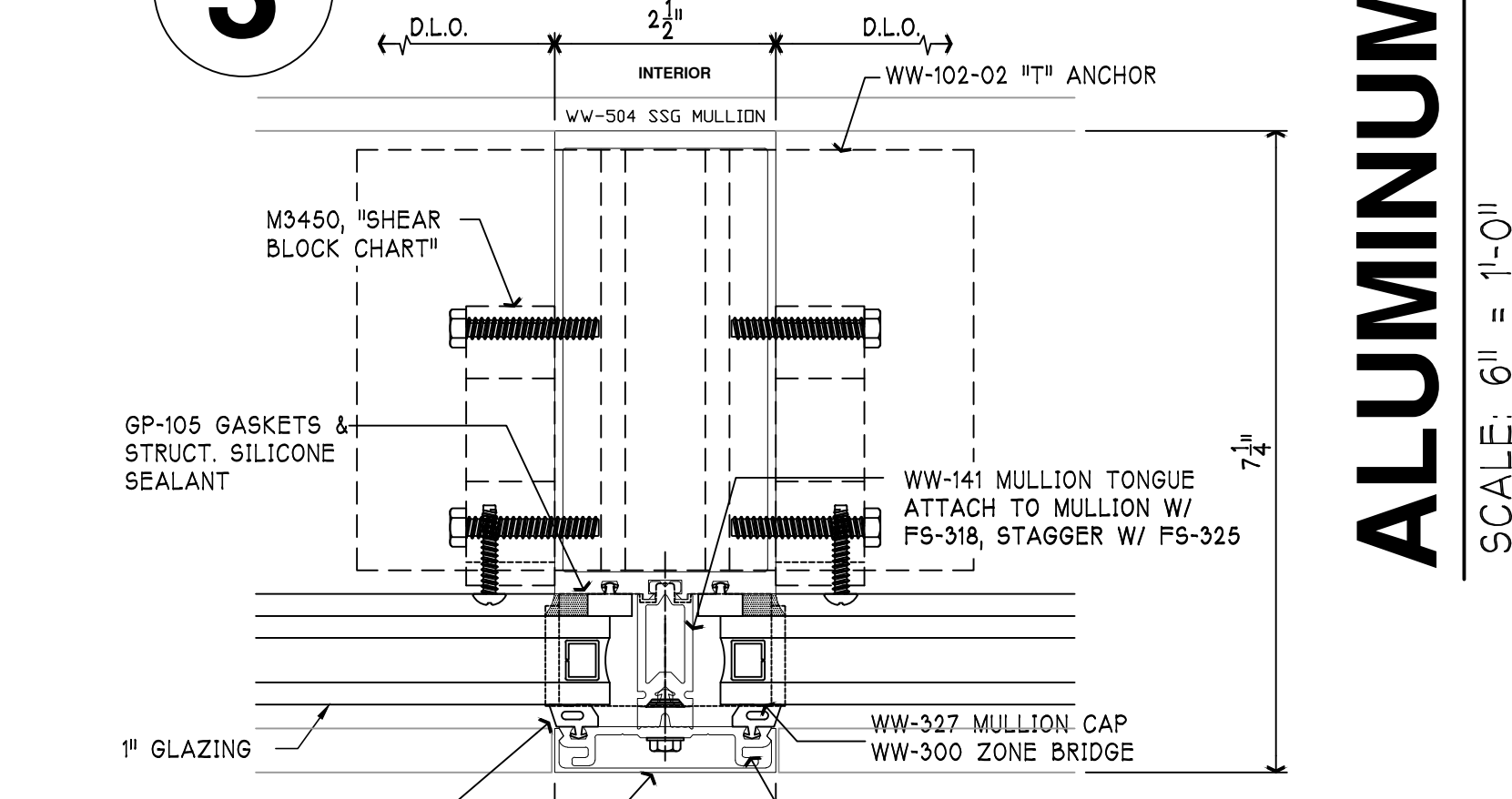
**5** Jamb (Tubular) - V3408



**1** Head - H3401



**2** Intermediate Horizontal - H3405



**3** Sill - H3404



**4** SSG Vertical at Transition - V3453

**ALUMINUM CURTAIN WALL DETAILS**

SCALE: 6" = 1'-0"



# GENERAL ROOFING NOTES

## A. GENERAL INSTALLATION:

1. Install roofing, insulation, flashings, and accessories in accordance with roofing Manufacturer's published instructions and recommendations for the specified TPO roofing system. Where Manufacturer provides no instructions or recommendations, follow National Roofing Contractors Association industry standards and SMACNA manual requirements. All work to comply with federal, state, and local codes and regulations.
2. Obtain all relevant manufacturer's instructions and procedures maintaining copies of such documentation at project site for duration of installation period.
3. Do not start work until Pre-Installation Notice has been approved by Owner and Manufacturer and that the Project qualifies for the specified Manufacturer's warranty.
4. Perform work using competent and properly equipped personnel with minimum 5 years of experience of the system installed on this project.
5. Temporary closures, which ensure that moisture does not damage any existing building areas as well as completed section of the new roofing system, are the responsibility of the Contractor. Completion of flashings, terminations, and temporary closures shall be completed as required to provide a watertight condition.
6. Install roofing membrane only when surfaces are clean, dry, smooth, and free of snow or ice. Do not apply roofing membrane during inclement weather or when ambient conditions will not allow proper application. Consult Manufacturer for recommended procedures during cold weather. Do not work with sealants and adhesives when material temperature is outside the range of 60 to 80 °F (15 to 25 °C).
7. Protect adjacent construction, property, vehicles, and persons from damage related to roofing work; repair or restore damage caused by roofing work.
8. Protect from spills and overspray from bitumen, adhesives, sealants, and coatings.
9. Particularly protect metal, glass, plastic, and painted surfaces from bitumen, adhesives, and sealants within the range of wind-borne overspray.
10. Protect finished areas of the roofing system from roofing related work traffic and traffic by other trades.
11. Until ready for use, keep materials in their original containers as labeled by the Manufacturer.
12. Consult membrane Manufacturer's instructions, container labels, and Safety Data Sheets (SDS) for specific safety instructions. Keep all adhesives, sealants, primers, and cleaning materials away from all sources of ignition.

## Examination

1. Examine roof deck to determine that it is sufficiently rigid to support installers and their mechanical equipment, and that deflection will not strain or rupture roof components or deform deck.
2. Verify that surfaces and site conditions are ready to receive work. Correct defects in the substrate before commencing with roofing work. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
3. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
4. Examine roof substrate to verify that it is properly sloped to drains.
5. Verify that the specifications and drawing details are workable and not in conflict with the roofing Manufacturer's recommendations and instructions; start of work constitutes acceptance of project conditions and requirements.

## Preparation

1. Prior to proceeding, prepare roof surface so that it is clean, dry, and smooth, and free of sharp edges, fins, roughened surfaces, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. Fill all surface voids in the immediate substrate that are greater than 1/4" (6 mm) wide with fill material acceptable to membrane Manufacturer.
3. Seal, grout, or tape deck joints, where needed, to prevent seepage into building.

## Insulation and Cover Board Installation

1. Install insulation in configuration and with attachment method(s) specified in strict accordance with manufacturer's requirement to comply with warranty, specifications and the NC Building Code for Brevard, NC.
2. Install only as much insulation as can be covered with the completed roofing system before the end of the day's work or before the onset of inclement weather.
3. Lay roof insulation in courses as specifically required by manufacturer to provide watertight installation and comply with all code requirement.
4. Neatly and tightly fit insulation to all penetrations, projections, and nailers, with gaps not greater than 1/4" (6 mm). Fill gaps greater than 1/4" (6 mm) with acceptable insulation. Do not leave the roofing membrane unsupported over a space greater than 1/4" (6 mm).
5. Mechanical Fastening: Using specified fasteners and insulation plates engage fasteners through insulation into deck to depth and in pattern required by Factory Mutual for specified FM Class and membrane Manufacturer, whichever is more stringent.
6. Adhesive Attachment: Apply in accordance with membrane Manufacturer's instructions and recommendations.

## Single-Ply Membrane Installation

1. Beginning roof membrane in strict accordance with manufacturer's instructions/requirements and in accordance with project specification, placing membrane without stretching over substrate and allow to relax before attachment or splicing; in colder weather allow for longer relax time.
2. Lay out the membrane pieces so that field and flashing splices are installed to shed water.
3. Install membrane without wrinkles and without gaps or fishmouths in seams, and bond and test seams and laps in accordance with membrane Manufacturer's instructions and details.
4. Mechanically Attached Membrane: Fasten membrane using membrane Manufacturer's recommended fasteners and plates, fastener spacing, and procedures.
5. Edge Securement: Secure membrane at all locations where membrane terminates or goes through an angle change greater than: 1:12 inches (8.3%) using mechanically fastened reinforced perimeter fastening strips, plates, or metal edging as indicated or as recommended by roofing Manufacturer. Exceptions: Round pipe penetrations less than 18" (460 mm) in diameter and square penetrations less than 4' (200 mm) square.
  - a) Metal edging; ensure anchorage of membrane as intended by roofing Manufacturer and compliant with IBC.

## F. FLASHING AND ACCESSORIES INSTALLATION

1. Install flashings, including laps, splices, joints, bonding, adhesion, and attachment, as required by membrane Manufacturer's recommendations and details. There are special flashing conditions that will require special attention by the manufacturer in indicate required details that will be fully warranted by the Manufacturer.
2. Metal Accessories: Install metal edgings, gravel stops, and copings in locations indicated on the drawings, with horizontal leg of edge member over membrane and flashing over metal onto membrane.
  - a) Follow roofing Manufacturer's instructions.
  - b) Use weldable TPO-coated metal where membrane-to-metal connections occur.
  - c) Remove protective plastic surface film immediately before installation.
  - d) Install water block sealant under the membrane anchorage leg.
  - e) Flash with Manufacturer's recommended flashing sheet unless otherwise indicated.
  - f) Where single application of flashing will not completely cover the metal flange, install additional piece of flashing to cover the metal edge.
  - g) If the roof edge includes a gravel stop and sealant is not applied between the laps in the metal edging, install an additional piece of self-adhesive flashing membrane over the metal lap to the top of the gravel stop; apply seam edge treatment at the intersections of the two flashing sections.
3. Roofing Expansion Joints to be Installed as recommended by roofing Manufacturer.
4. Flashing at Walls, Curbs, and Other Vertical and Sloped Surfaces:
  - a) Install weathertight flashing at all walls, curbs, parapets, skylights, and other vertical and sloped surfaces that the roofing membrane abuts to; extend flashing at least 8" (200 mm) above membrane surface and/or as detailed.
  - b) Use the longest practical flashing pieces.
  - c) Evaluate the substrate and overlay and adjust installation procedure in accordance with membrane Manufacturer's recommendations.
  - d) Complete the splice between flashing and the main roof sheet with manufacturer's required splice adhesive before adhering flashing to the vertical surface.
  - e) Provide termination directly to the vertical substrate as shown on roof drawings.
5. Pipes, Round Supports, and Similar Items: Flash with specified pre-molded pipe flashings wherever practical; otherwise use specified self-curing elastomeric flashing.
7. Pipe Clusters and Unusual Shaped Penetrations: Provide penetration pocket at least 2" (50 mm) deep, with at least 1" (25 mm) clearance from penetration, sloped to shed water.
8. Structural Steel Tubing: If corner radii are greater than 1/2" (6 mm) and longest side of tube does not exceed 12" (305 mm), flash as for pipes; otherwise, provide a standard curb with flashing.
9. Flexible and Moving Penetrations: Provide weathertight gooseneck set in sealant and secured to deck, flashed as recommended by Manufacturer.

## G. Field Quality Control

1. Inspection by Manufacturer: Provide final inspection of the roofing system by a Technical Representative employed by roofing system Manufacturer specifically to inspect installation for warranty purposes (e.g., not a sales representative). This inspector is to provide a full report to the Owner/Architect of the inspection including but not limited to unacceptable issues that are to be corrected.
2. Perform all corrections necessary for issuance of warranty.

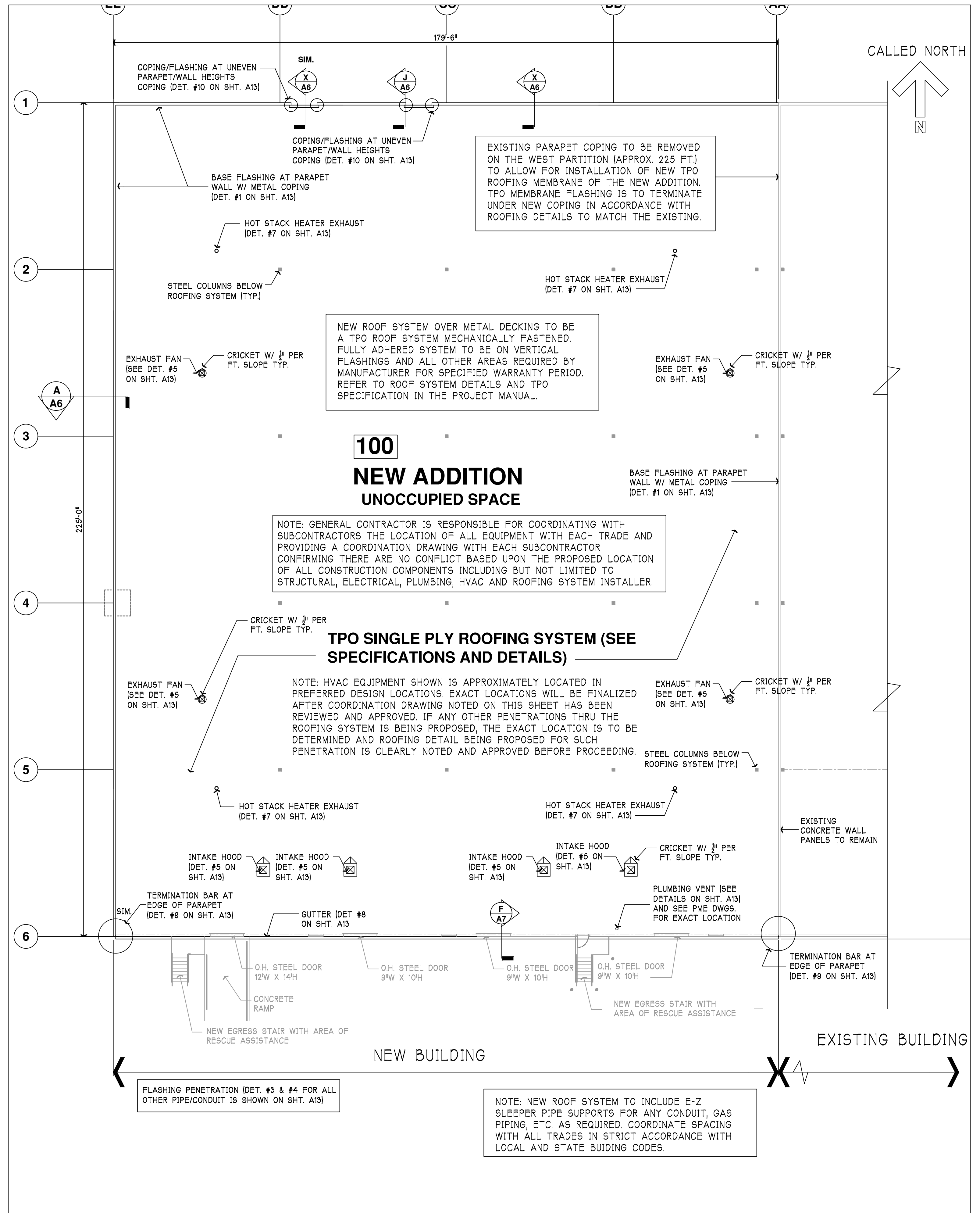
## H. Cleaning

1. Clean all contaminants generated by roofing work from building and surrounding areas, including bitumen, adhesives, sealants, and coatings.
2. Repair or replace building components and finished surfaces damaged or defaced due to the work of this section; comply with recommendations of Manufacturers of components and surfaces.
3. Remove leftover materials, trash, debris, equipment from project site and surrounding areas.

## I. Protection

1. Where construction traffic must continue over finished roof membrane, provide durable protection, and replace or repair damaged roofing to original condition.

NOTE: REFER TO PROJECT MANUAL FOR THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING SECTION 075423 AS WELL AS OTHER SECTIONS PROVIDING ADDITIONAL INFORMATION FOR ROOFING REQUIREMENTS.



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# ROOF PLAN AND NOTES

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

RICHARD L. WORLEY  
**ARCHITECT A.I.A.**  
4078 HAYWOOD ROAD - MILLS RIVER, NORTH CAROLINA 28759

AN ADDITION TO  
THE TRANSYLVANIA COUNTY ECONOMIC ALLIANCE  
SYLVAN VALLEY INDUSTRIAL PARK  
BREVARD, NORTH CAROLINA



DATE: 4 APR 2024

SHEET: **A12**

FILE NAME: RLW98.dwg

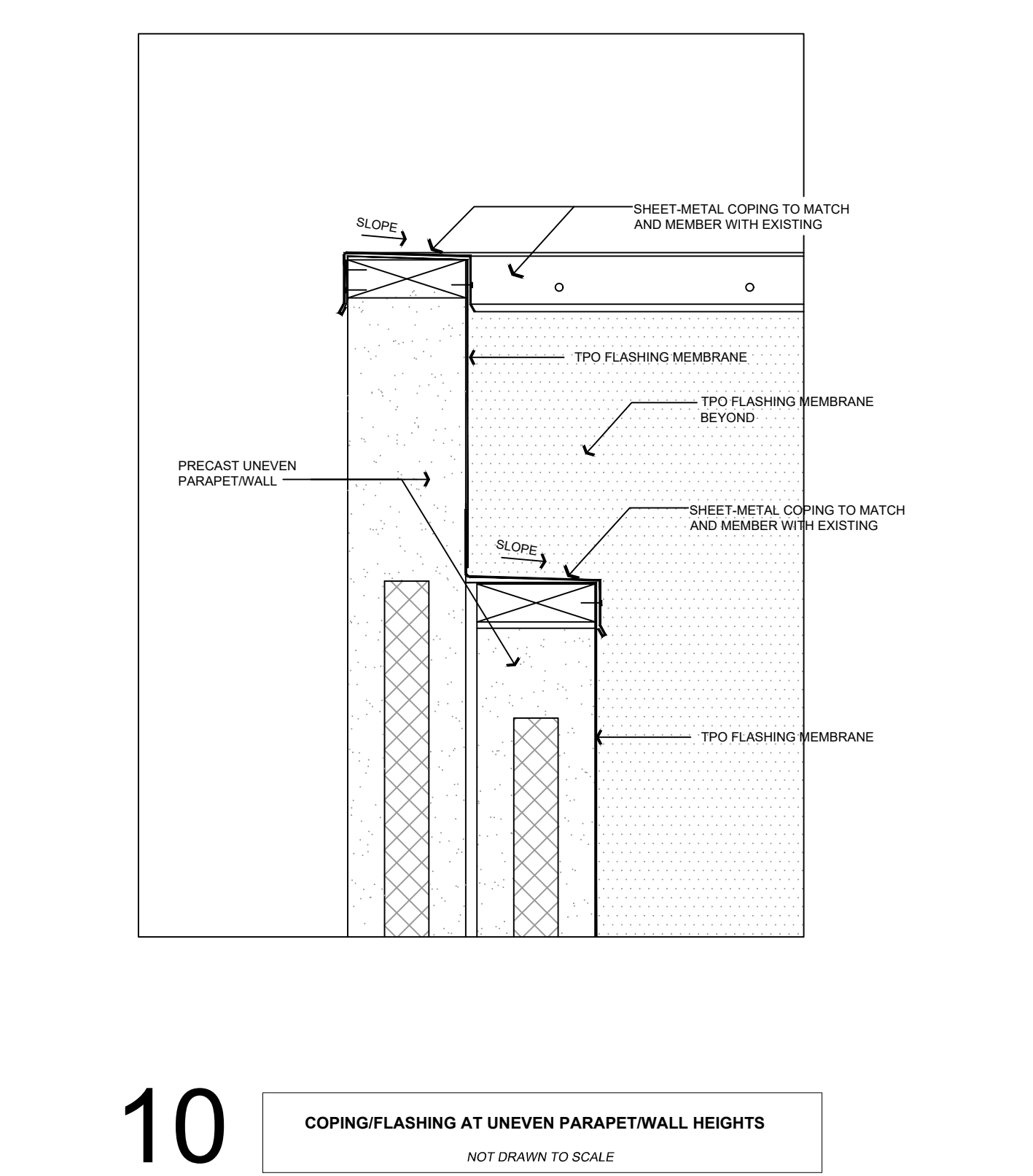
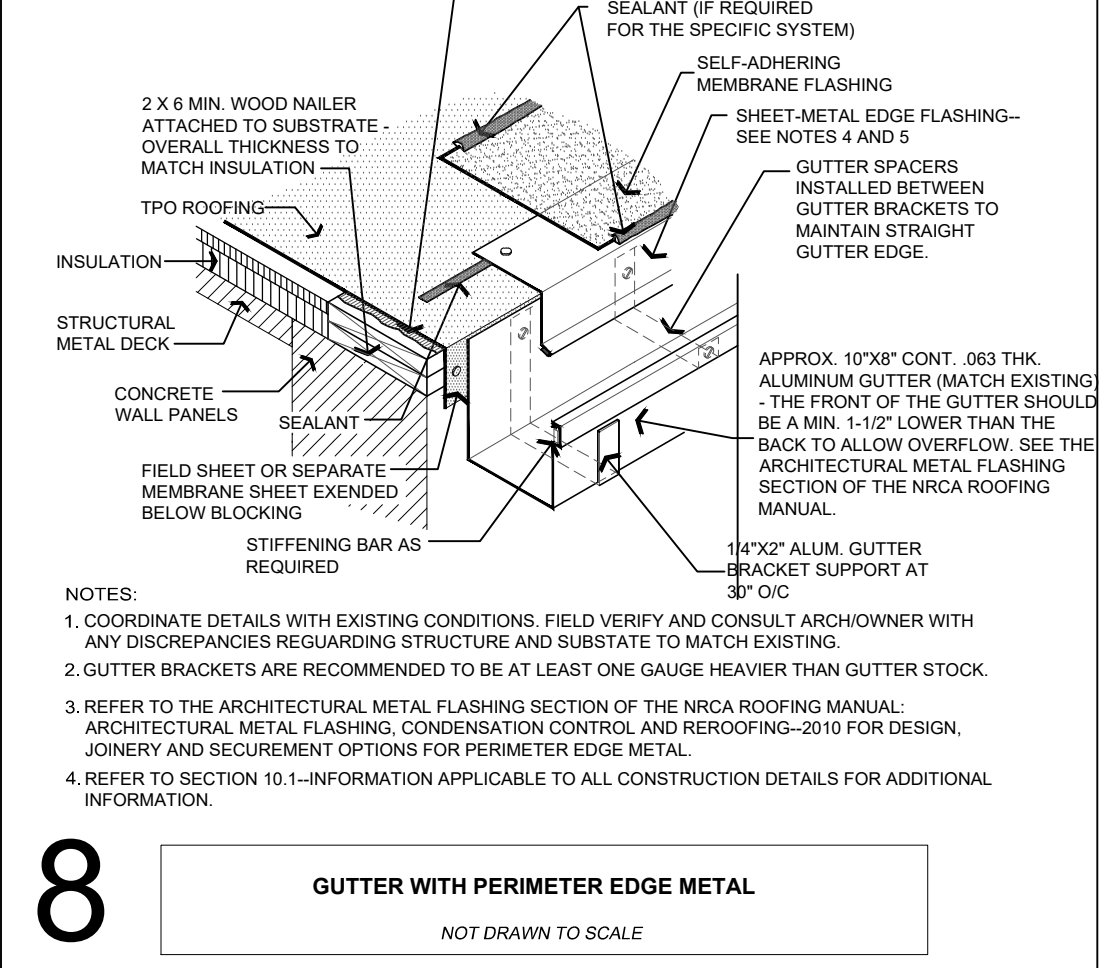
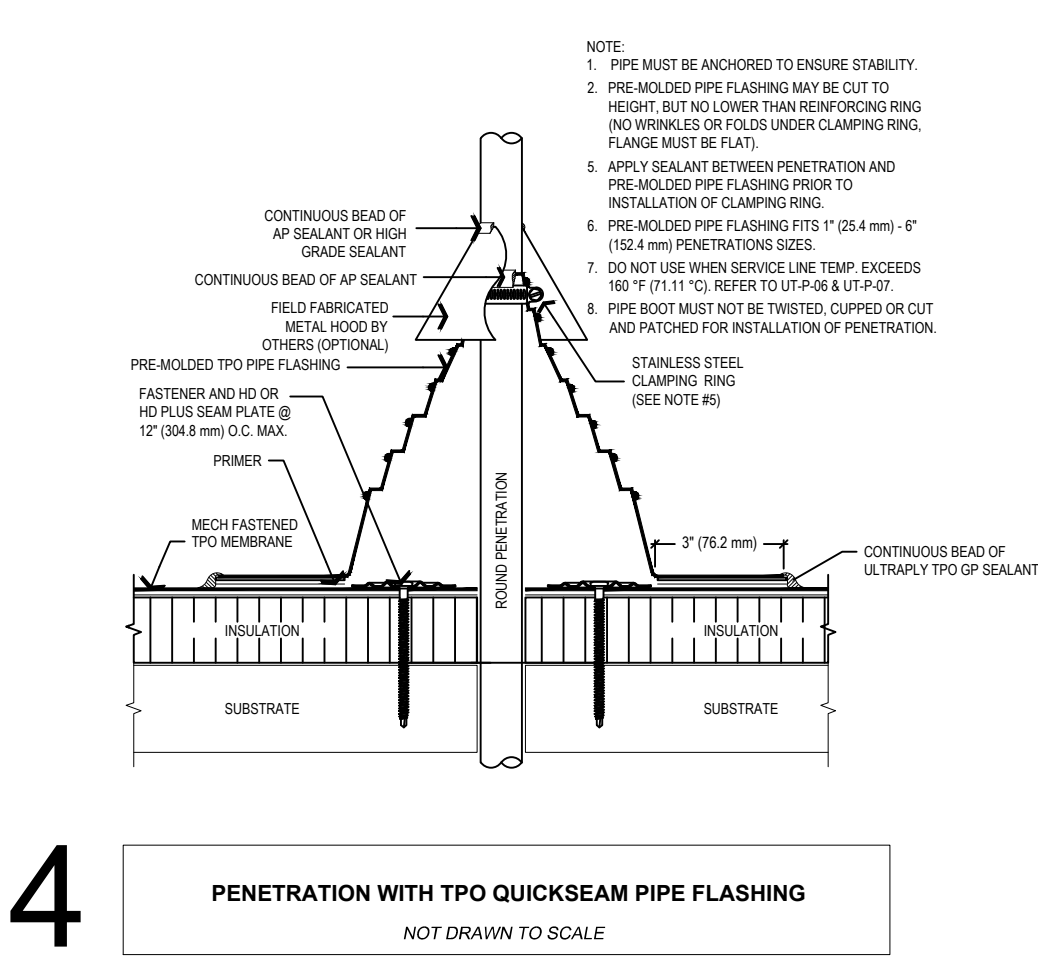
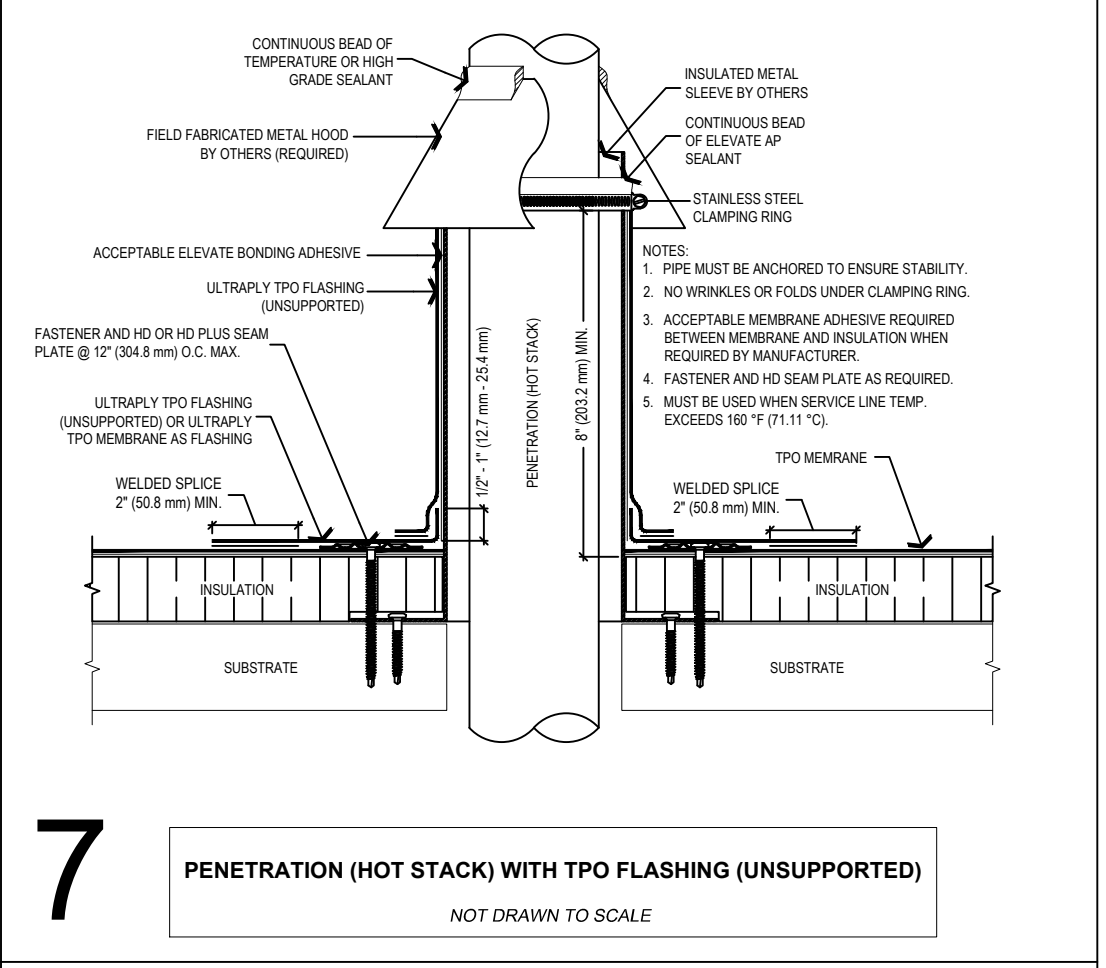
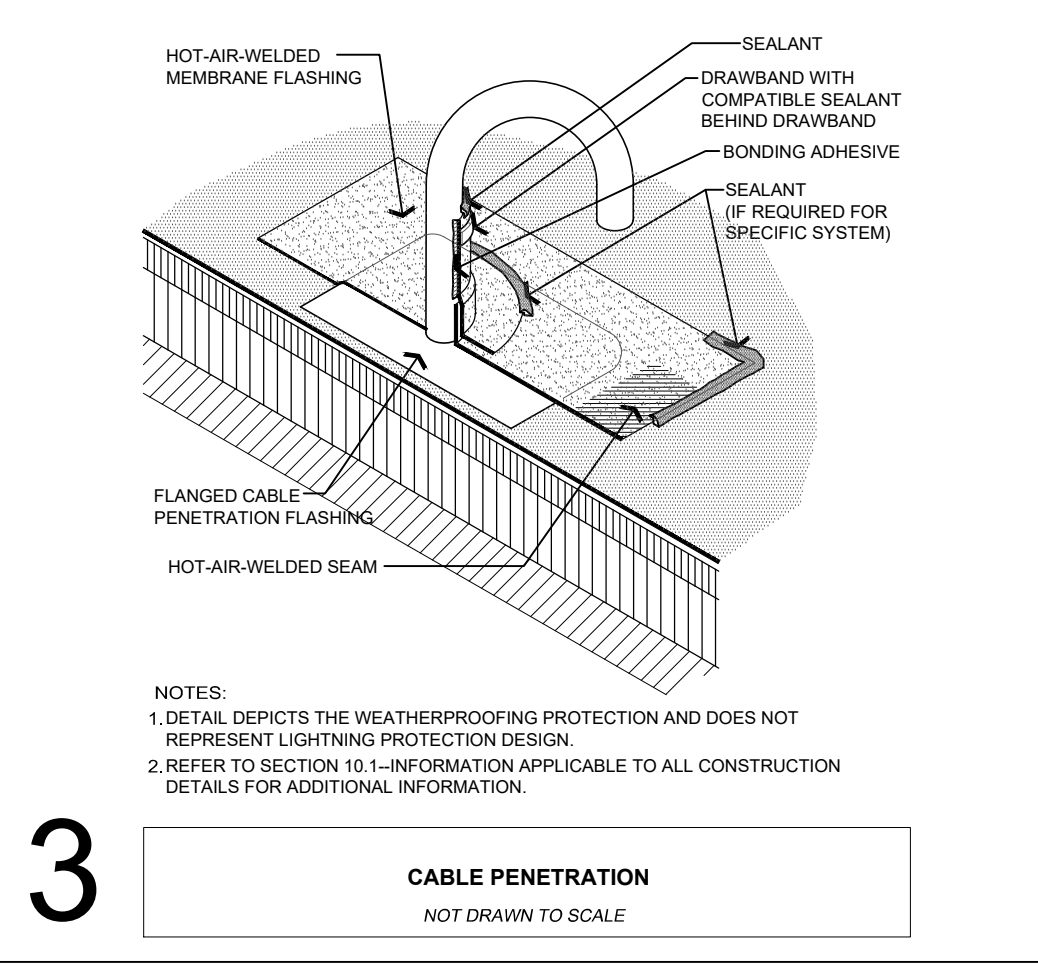
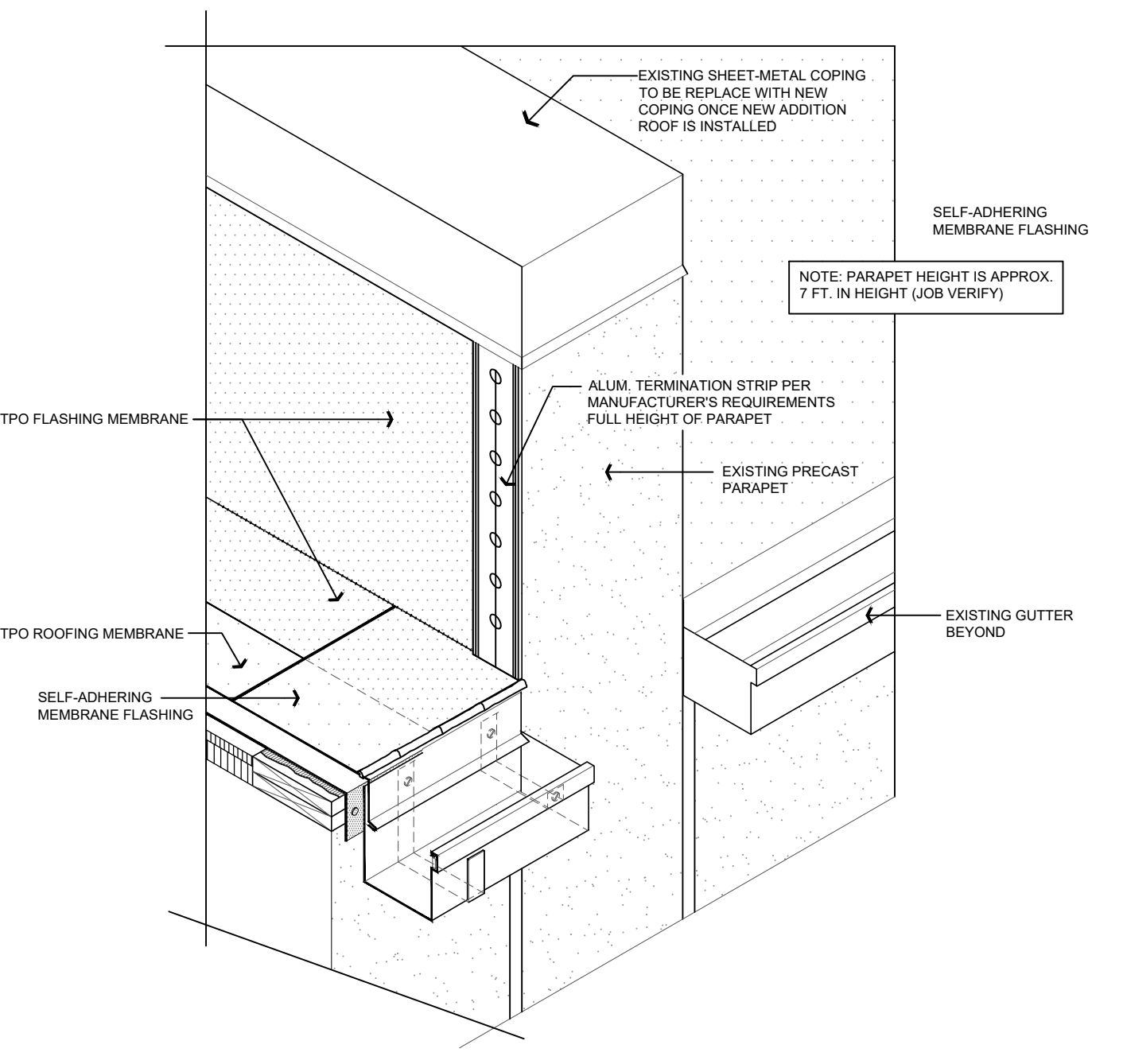
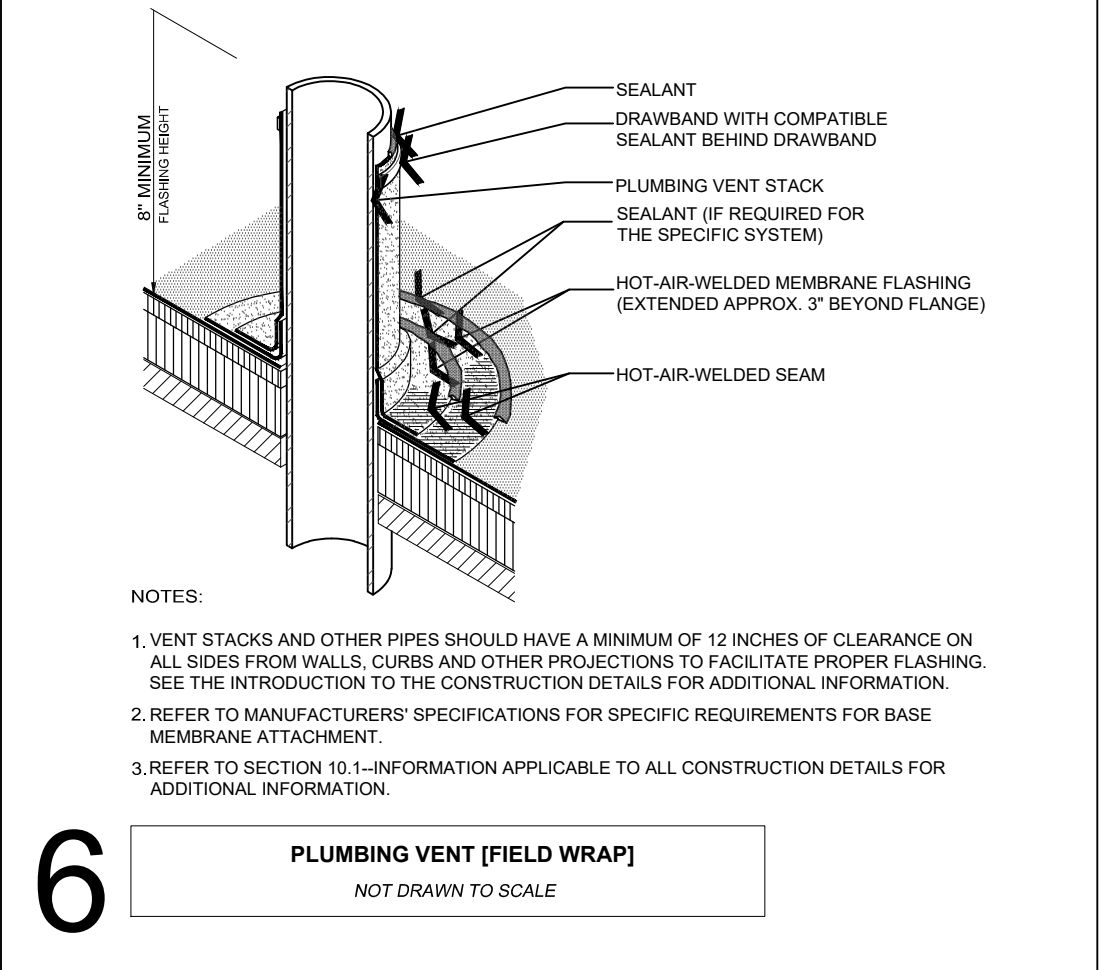
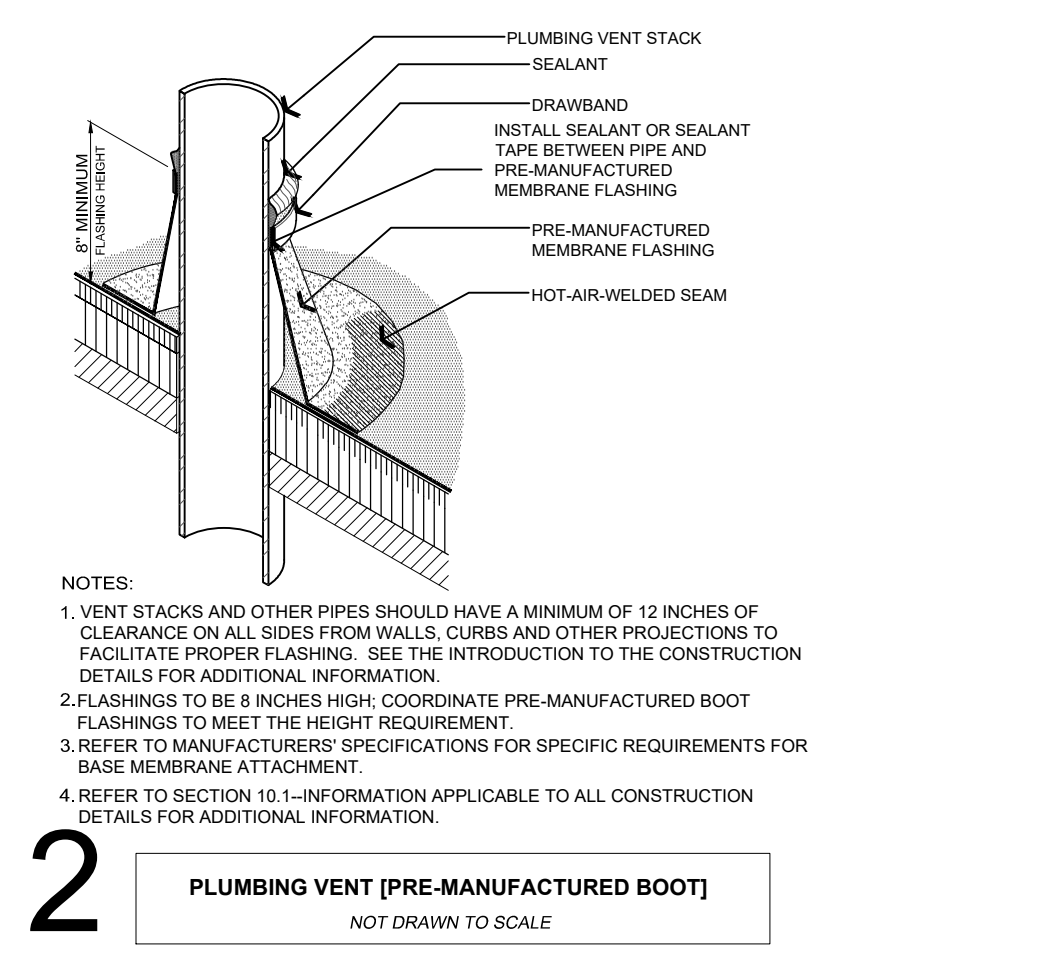
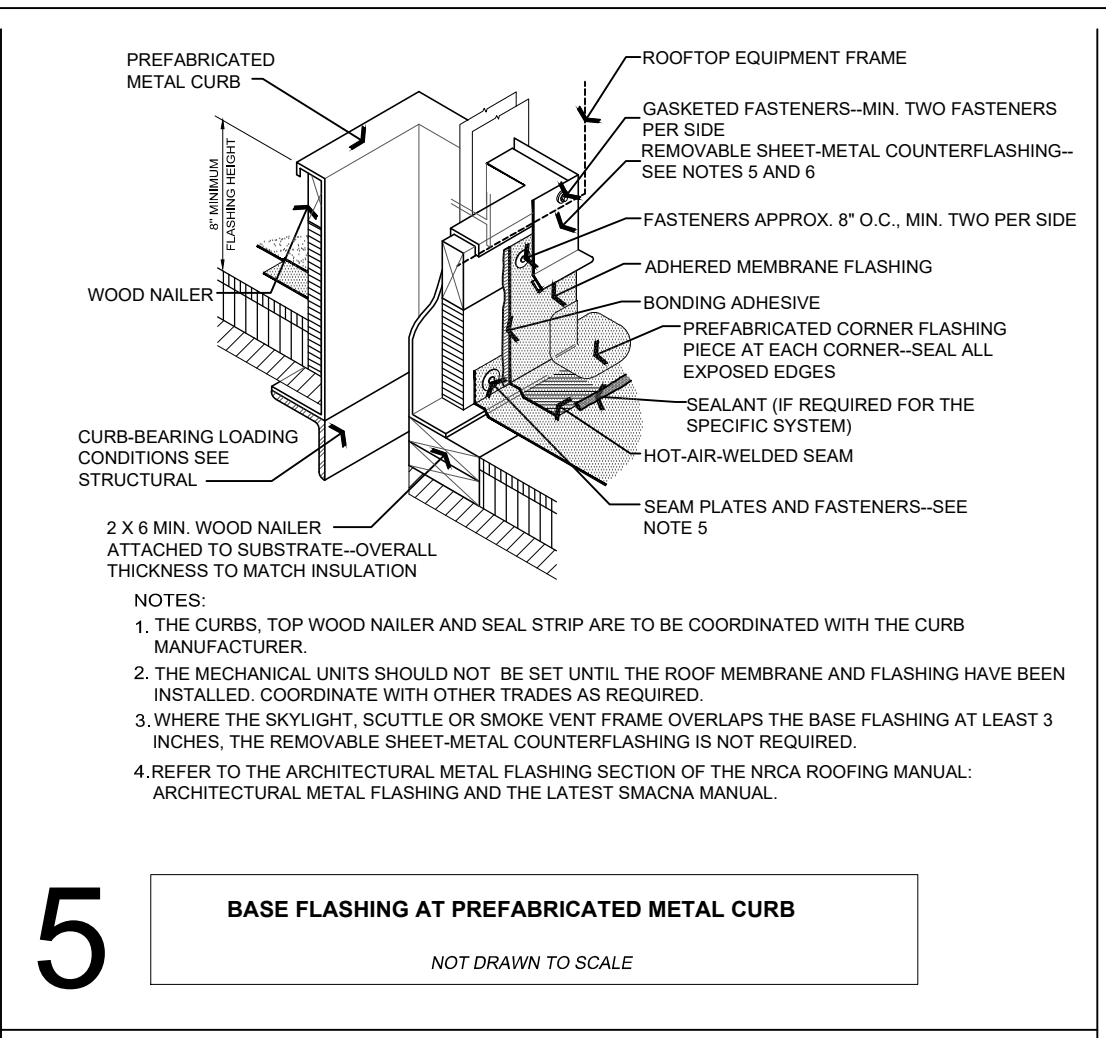
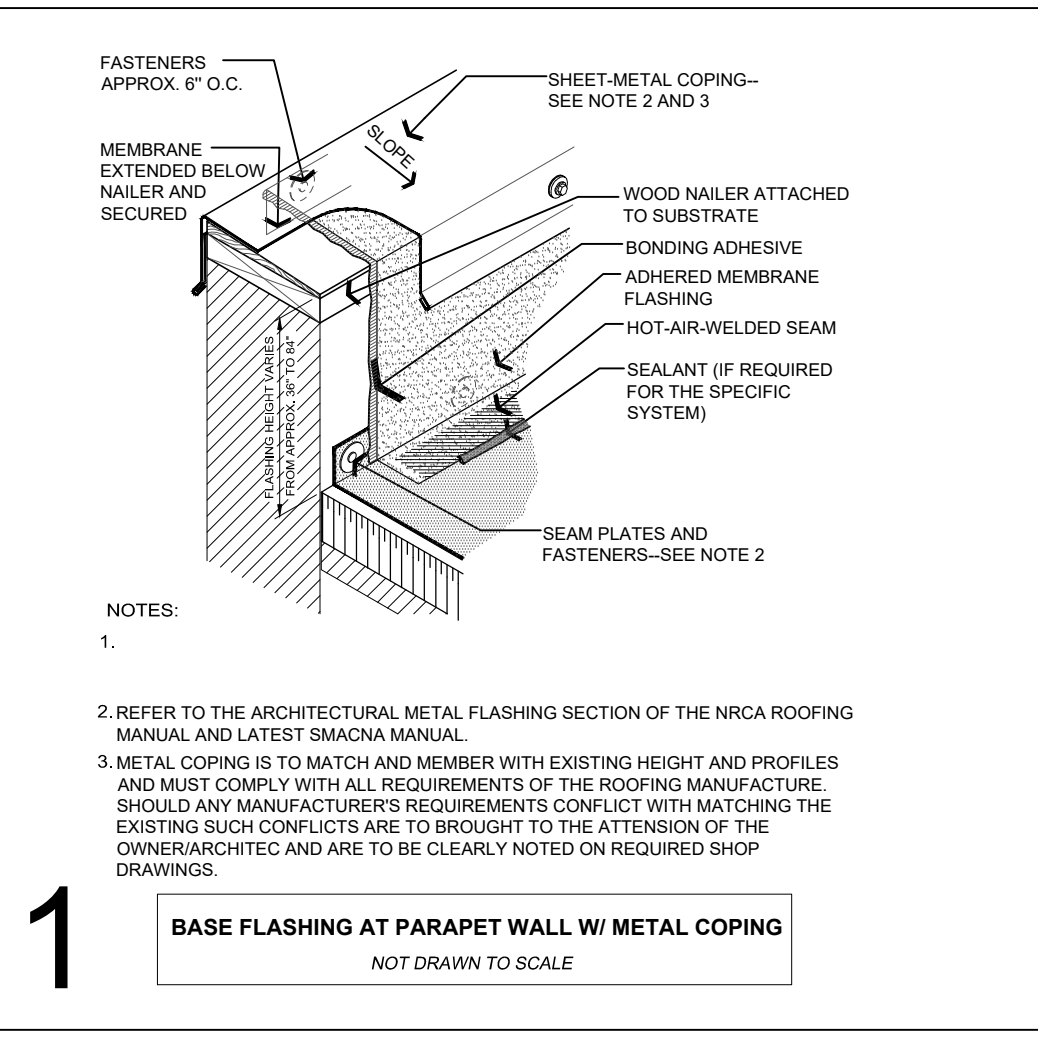


# ROOFING DETAILS

SCALE: NTS

**NOTES:**

- CONTRACTOR TO PROVIDE COORDINATION DRAWINGS THAT INCLUDE A COOPERATIVE EFFORT BETWEEN VARIOUS TRADES TO SUCCESSFULLY PLACE ALL EQUIPMENT AND MATERIALS THAT PENETRATE THROUGH ROOF SYSTEM IN ORDER TO PROVIDE A ROOF SYSTEM LAYOUT THAT IS APPROVED BY ROOFING MANUFACTURER IN ACCORDANCE WITH THE 20 YEAR ROOF WARRANTY. ALL OTHER TRADES ARE TO APPROVE THE LAYOUT AND CONFIRM THAT THEY HAVE VERIFIED THAT THEIR WORK IS COMPATIBLE WITH THE ROOFING SHOP DRAWINGS.
- ROOF SYSTEM TO SLOPE TO GUTTER A 1/4" PER FOOT. THE INTENT IS TO MATCH EXISTING SLOPE AND HEIGHT OF GUTTER AS WELL AS THE ROOF MEMBRANE IN ORDER TO TERMINATION APPROPRIATELY AT THE GUTTER AND PROVIDE POSITIVE DRAINAGE.
- REFER TO SECTIONS #75423 "THERMOPLASTIC POLYOLEFIN (TPO) ROOFING", #76200 "SHEET METAL FLASHING AND TRIM" AND #77200 "ROOF ACCESSORIES" FOR ADDITIONAL INFORMATION.
- PROVIDE NEW LOW SLOPED INSULATED TPO ROOF SYSTEM W/ CRICKETS (SLOPE 1/2" PER FOOT) AT ALL ROOF TOP EQUIPMENT AS REQUIRED FOR POSITIVE DRAINAGE TO NEW GUTTER.
- PROTECT EXISTING BUILDING FROM WATER INFILTRATION DURING APPLICATION OF PERMANENT TPO ROOF SYSTEM ON NEW ADDITION AND THROUGHOUT THE CONSTRUCTION PROCESS KEEPING INTERIOR OF NEW AND EXISTING BUILDING WATERTIGHT.
- CONTRACTOR TO SUBMIT CERT. OF KEY PERSONNEL, MANUFACTURER'S FACTORY MUTUAL APPROVALS AND SHOP DRAWINGS (SEE PROJECT MANUAL).
- PROTECT ALL ROOFING MEMBRANE WITH SHEATHING AT ALL ROOF ACCESS AREAS DURING CONSTRUCTION AND SCHEDULE WORK ON THE ROOF AREA TO MINIMIZE POTENTIAL DAMAGE TO ALL WORK THAT HAS BEEN COMPLETED.
- ALL SHEET METAL WORK SUCH AS BUT NOT LIMITED TO GUTTER, DOWNSPOUTS, ROOF TRIM, ETC. TO BE FABRICATED IN ACCORDANCE WITH AMACNA Architectural Sheet Metal Manual.



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