



## **ADDENDUM #4**

### **PARTIAL ROOF REPLACEMENT ANSONIA HIGH SCHOOL ANSONIA, CT**

Hibbard & Rosa Architects, L.L.C.  
Middletown, Connecticut

The following changes, revisions, and/or additions are hereby made a part of the Contract Documents and shall supersede previously issued documents and shall become a part of the contract documents.

Date: September 17, 2025

#### Information to Bidders:

The following PDF documents are attached and part of this Addendum:

1. Shop drawings for Ansonia High School
2. Ansonia HS Wind Uplifts
3. Wind Uplift - Ansonia High School – SS Roofs
4. Wind Uplift – Ansonia High School - Walls

#### Information to Bidders:

The Oblige on the Bid Bond shall be the Town of Ansonia.

#### Information to Bidders:

Q: We need to know the zones for the standing seam (1/2/3) to calculate how many clips to carry.

A: Please see the attached shop drawings

#### Information to Bidders:

Q: For the standing seam and wall panel clips – stainless or galvanized?

A: SS, Please see the attached shop drawings

#### Information to Bidders:

Q: How much clips per zone for standing seam and wall panel?

A: Please see the attached shop drawings

#### Information to Bidders:

Q: What # fastener for standing seam clips? Stainless or galvanized?

A: Please see the attached shop drawings

Information to Bidders:

Q: Are the Garland shop drawings complete? Does the contractor need to carry the cost of them?

A: Yes, Please see attached and no the contractor does not need to carry the cost.

Information to Bidders:

Q: When does the job start and when should it finish? Is this a 2025 project leading into 2026?

A: Construction is currently scheduled to start June 2026, after the last day of school, with a substantial completion date of August 16<sup>th</sup>, 2026. Any non-disruptive work may take place during the school year(s) after coordinating with the School District, and any disruptive work shall take place during the summer recess of 2026.

Information to Bidders:

Q: What is the fastening patterns for the BUR?

A: Please see the attached wind uplifts and fastening patterns

Information to Bidders:

Q: Details 3/A3, 2/A3 & 2/A6 All mention to fasten 3/4" plywood over the existing metal deck. I am assuming that we are not fastening plywood over the existing assembly correct?

A: Correct

Information to Bidders:

Q: Spec section 07 41 13, Sec. 3.2-Installation E. mentions installing underlayment and eave protection as per the manufacturer. Are we installing underlayment and eave protection I am assuming not?

A: There is no underlayment required beneath the metal roof system.

Information to Bidders:

Q: Details 3/A-5 & 2/A6 show ridge cap details. Are the hip and ridge caps vented or non-vented caps? I am assuming that the eaves do not vent correct?

A: Please see attached shop drawings

Information to Bidders:

Q: The drawings do not show where the downspouts and gutter expansion joints occur. Could you please provide revised roof plan depicting the downspouts and gutter exp-j locations?

A: Contractor shall install 23 downspouts to align with the existing 23 downspout locations. Size to match existing. Contractor shall install 10 gutter expansion joints, final location to be determined in the field.

Information to Bidders:

- Q. Detail 7/A-4 shows a smoke hatch cut. There is no mention of raising the (3) existing smoke hatches. These hatches are very low to the roof. Are we ok to install the 2" Iso and ½" cover board without raising the roof hatches? If we are to raise the roof hatches could you please provide information as to how the existing hatches are attached and what is the intent? Are there any sheet metal liners inside? Are the smoke hatches welded or fastened to the structure? If this information is not available should we just bid the project as is and deal with the change via Proposed Change Order?
- A: The Contractor shall be responsible to raise the smoke hatches as required to maintain a minimum 8" flashing height.

Information to Bidders:

- Q: Who is responsible for removing and or altering the roof conduits if needed? I am suggesting that the Town of Ansonia will remove and or raise any conduits on the roof as necessary.
- A: Any solar related equipment, conduit, racking, ballast, or associated components is the Owners responsibility. Conduit and other equipment is the contractors responsibility.

Information to Bidders:

- Q: There is existing gas lines as noted in the drawings, do these lines need to be raised and if so, who is responsible for raising the gas lines? I am suggesting that the Town of Ansonia will remove and or raise any gas lines on the roof as necessary.
- A: If there are any instances where gas lines need to be raised to a minimum blocking height of (1) PT 2x4 above the new roof system assembly, it is the contractor's responsibility to do so.

Information to Bidders:

- Q. What is the intent at the Large Roof Top Units? I am assuming that these units will remain in place and will not be raised to accommodate any minimal flashing heights correct?
- A: Correct, no large units are intended to be raised

Information to Bidders:

- Q. Several of the details on A-4 mention the existing Poly-Iso Insulation is between 2-3/4" – 4" thick. Could you please confirm this?
- A: This is correct. Refer to core cuts.

Information to Bidders:

- Q. Are we using vented or non-vented hat channel? What is the fastening ratio for the hat channel and what is the spread between?
- A: Please see attached shop drawings

Information to Bidders:

Q. Is there any specific field, perimeter and corner fastening for the metal and BUR roofing?

A: Please see attached uplifts and corresponding fastening patterns.

Information to Bidders:

Q. I understand that the solar panels will be removed by others, I assume this includes all concrete pavers and ballast which holds down the system correct?

A. Correct

Information to Bidders:

Q: Details 2 & 3 A-2 depict a pre-manufactured coping cap. Are we to make this coping from the .050 Flat Stock?

A: No, it is intended that contractors utilize a manufacturers pre-manufactured coping assembly.

Information to Bidders:

Q: Roof Plan A-1 shows two roof hatches, specification 07 72 33 –Roof Hatch, Sect 2.2 Components-A mentions (1) roof hatch. Are we replacing both roof hatches or just one as per the roof hatch spec and which one is being replaced? Please advise!

A: Contractor shall replace the two existing roof hatches with two new roof hatches.

Information to Bidders:

Delete detail 2, Sheet A-2; OVERFLOW SCUPPER. This detail was based upon the original contract documents. The requirement for the installation of the overflow scuppers was deleted from the original scope of work. The requirement for overflow scuppers will be addressed in the field.

Information to Bidders:

There have been no submitted requests for substitutions and the time allotted for inquiries has passed. Please see the attached shop drawings from the basis of design manufacturer.

Information to Bidders:

The Contractor shall remove and dispose of the existing roof mounted lightning protection system.

Information to Bidders:

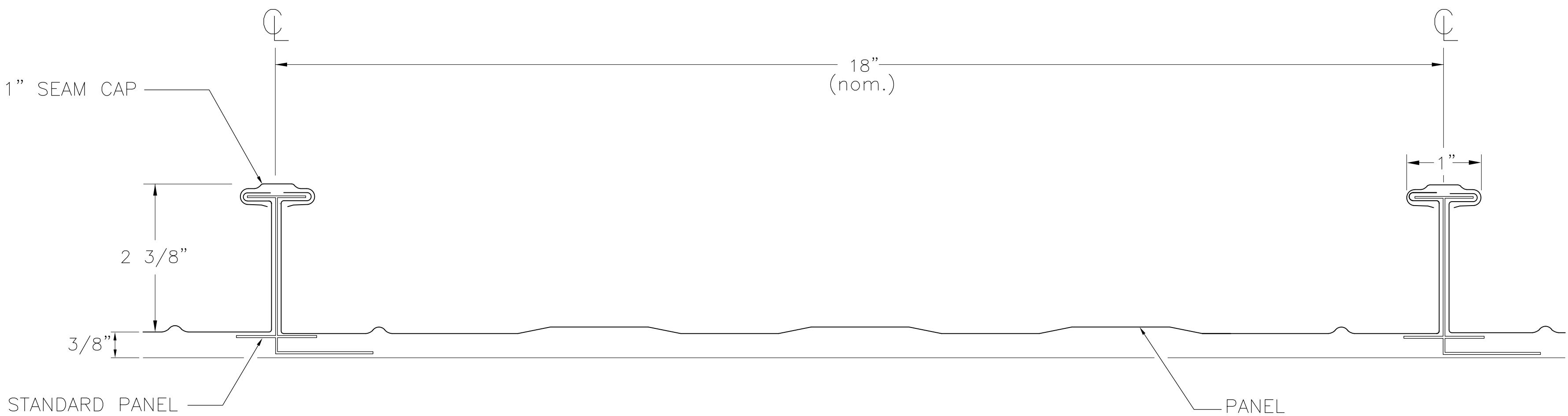
Detail 1/A-3 “Wall Expansion Joint” shown on A-1; Roof Plan, runs the length of the wall.

Information to Bidders:

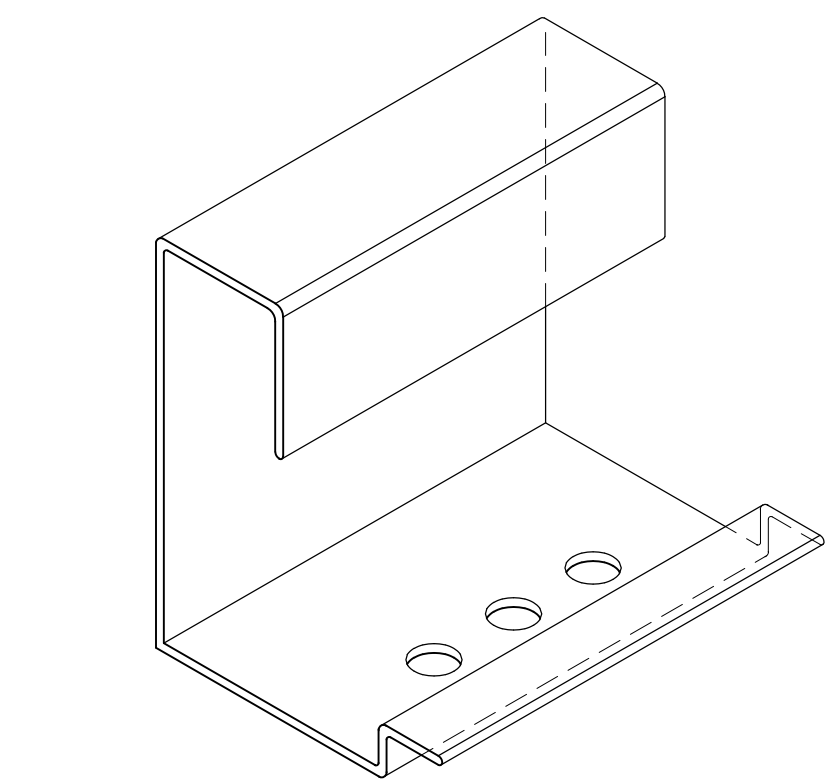
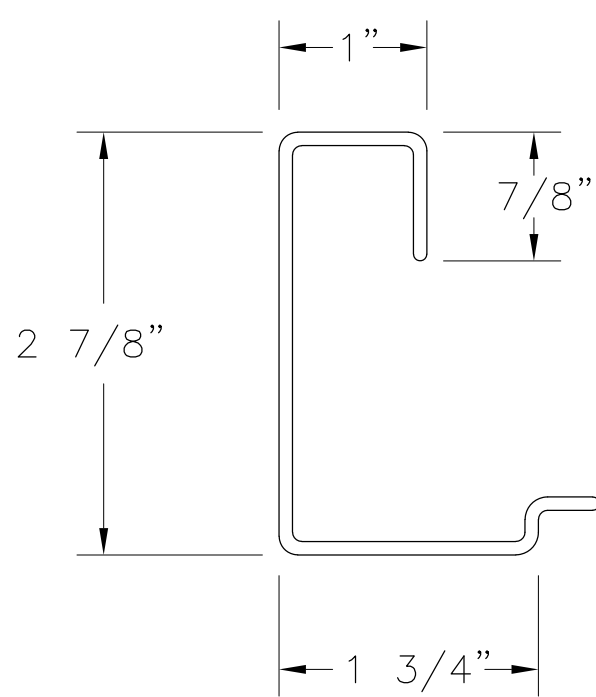
A Builders Risk Insurance Policy is not required.

**END OF ADDENDUM #4**

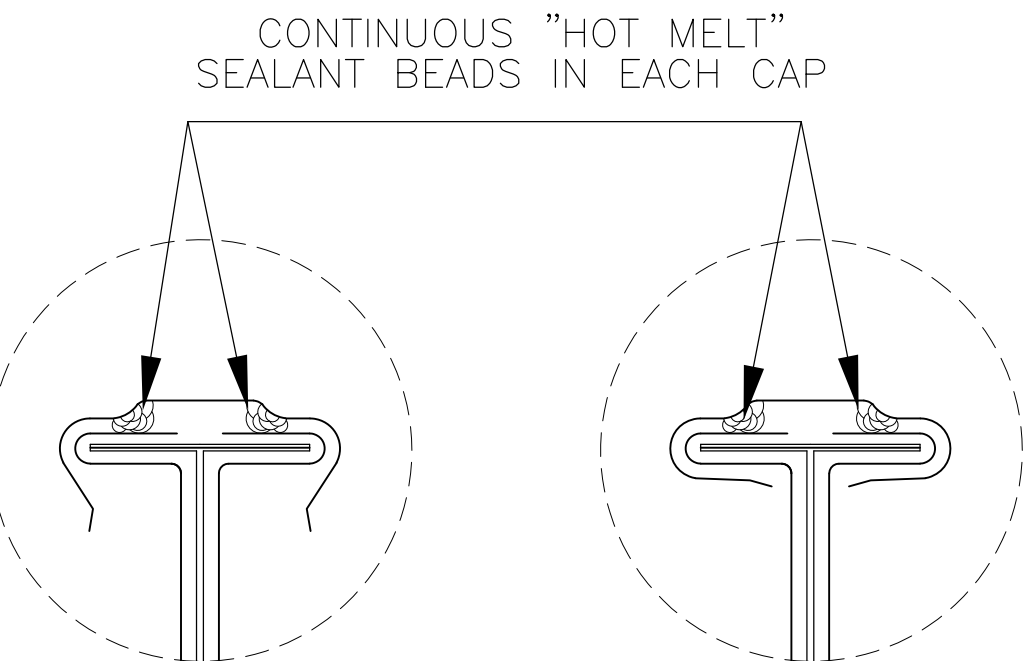
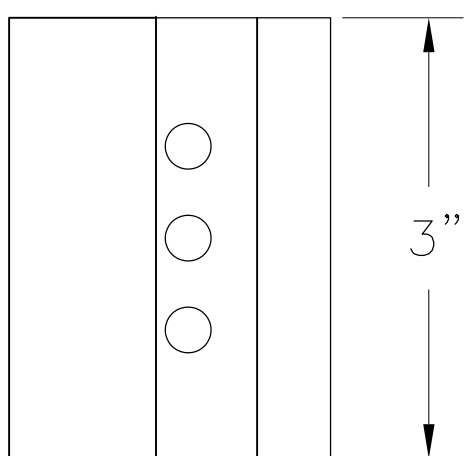
ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401



TYPICAL RMS-18 PANEL PROFILE



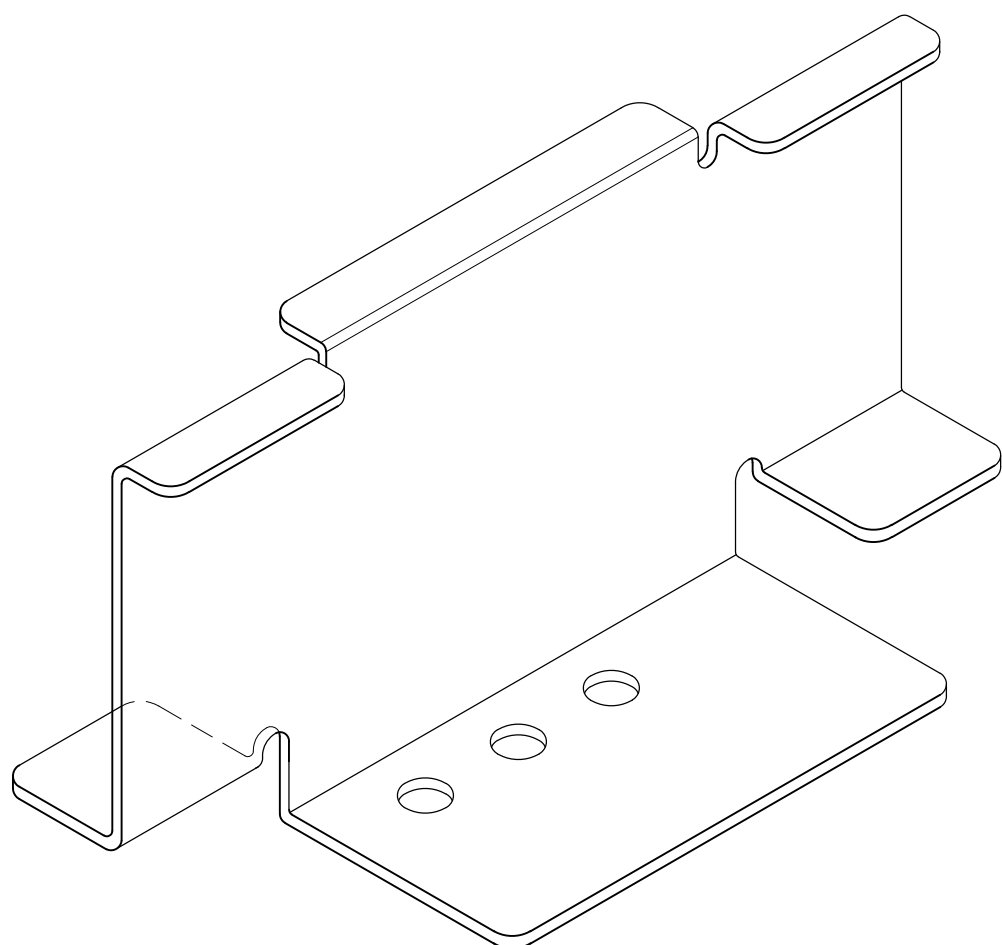
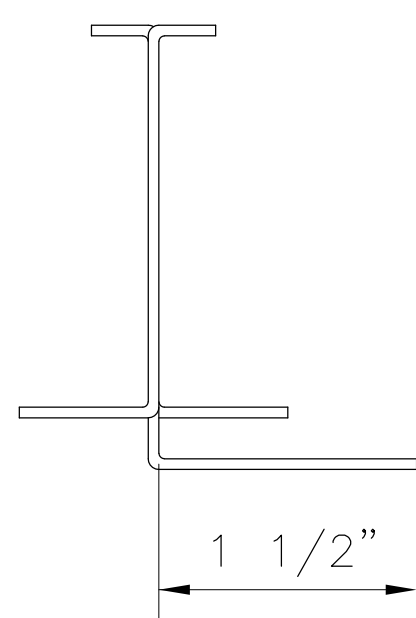
#3007SS GABLE CLIP  
STAINLESS STEEL



FACTORY APPLIED SEALANT IN AN UNSEAMED PANEL CAP

FACTORY APPLIED SEALANT IN A MECHANICALLY SEAMED PANEL CAP

"HOT MELT" SEALANT BEADS  
FACTORY APPLIED



#301016SS STD. CLIP  
STAINLESS STEEL

R-MER SPAN PANEL AND ACCESSORIES

SPECIAL NOTES:

R-MER SPAN PANEL NOTES:

- FOR ADDITIONAL R-MER SPAN INSTALLATION INSTRUCTIONS, CONTACT GARLAND FOR AN INSTALLATION GUIDELINES MANUAL.
- ALL PANEL CLIPS ARE TO BE FASTENED USING (2) TWO #14-13 DP1, CONCEALOR TYPE, SELF-TAPPING FASTENERS WITH AN ULTIMATE PULLOUT VALUE OF: **623#** PER FASTENER INTO MIN 18GA HAT CHANNELS AT MAX. SPACING ABOVE.
- ROOF PANELS ARE TO BE FIELD SEAMED BY ERECTOR WITH GARLAND'S ELECTRIC SEAMER. REFERENCE INSTALLATION MANUAL AND/OR OPERATING INSTRUCTIONS PROVIDED WITH SHIPMENT OF SEAMER.

GENERAL NOTES:

ATTENTION: ARCHITECT, G/C, & SUB-CONTRACTOR

THESE SHOP DRAWINGS HAVE BEEN SUBMITTED FOR ARCHITECT, GENERAL CONTRACTOR AND SUB-CONTRACTOR APPROVAL. ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED. IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED.

\*APPROVAL STAMPS/SIGNATURES ATTACHED AT RIGHT.

ARCHITECT APPROVAL

G/C APPROVAL

SUB-CONTRACTOR APPROVAL



IMPORTANT CUSTOMER NOTE:  
PLEASE READ AND SIGN BELOW

- 1) ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED.
- 2) IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS AND RETURNED TO GARLAND FOR REVIEW.
- 3) EACH DIMENSION MARKED WITH AN (\*) MUST BE APPROVED FOR FABRICATION BY INDICATING THE RESPONSE "OK" OR "✓", OR BY NOTING THE CORRECT DIMENSION.
- 4) WHERE GARLAND SPECIFICALLY REQUESTS TO "FIELD VERIFY" OR "SPECIFY" A DIMENSION, THE PROPER CUSTOMER RESPONSE WILL BE TO:  
A) MARK WITH EITHER "OK" OR "✓" IF THE DIMENSION IS CORRECT. OR  
B) NOTE THE CORRECT DIMENSION.  
IT IS IMPERATIVE THAT FIELD DIMENSIONS ARE TAKEN TO INSURE ACCURATE FABRICATION AND PROPER MATERIAL FIT.
- 5) NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (i.e., COLOR, DIMENSIONS, MATERIAL CONFIGURATION) HAS BEEN RECEIVED BY GARLAND.
- 6) GARLAND MUST HAVE 'APPROVED' SHOP DRAWINGS WITH AUTHORIZATION TO RELEASE THE MATERIAL FOR FABRICATION AS INDICATED BY A CUSTOMER AUTHORIZATION SIGNATURE.
- 7) INDICATE THE DATE MATERIALS WILL BE REQUIRED AT THE PROJECT LOCATION:

CUSTOMER AUTHORIZATION SIGNATURE: \_\_\_\_\_

(sign here)

DATE: \_\_\_\_\_

(date here)

STORAGE NOTE:

ALWAYS STORE ALL COMPONENTS IN A CLEAN, DRY STORAGE AREA. PREVENT CONTACT WITH CORROSIVE OR STAINING MATERIALS.

MATERIAL NOTE:

SOME OIL CANNING OF PANELS IS COMMON IN THE INDUSTRY AND IS NOT CONSIDERED CAUSE FOR PRODUCT REJECTION.

SEALANT NOTE:

USE A CONTINUOUS BEAD OF NON-HARDENING, HIGH QUALITY SEALANT COMPATIBLE WITH KYNAR AND POLYESTER FINISHES. FOR FORMED COPING, EXTENDERS, FASCIA AND WALL CAPS, APPLY SEALANT BEAD TO THE CONCEALED PORTION OF THE SPLICE PLATE. (SEALANT BY ERECTOR)

ERECTOR NOTE:

- STEEL PANELS: SAW OR TORCH CUTS ARE NOT ALLOWED. ONLY SHEARING ACTION MAY BE USED, AS ACHIEVED WITH HAND SNIPS/SHEARS OR ELECTRIC SHEARS
- ALUMINUM PANELS: TORCH CUTS ARE NOT ALLOWED. SHEARING ACTION RECOMMENDED TO CUT ALUMINUM. SAW CUTS PERMITTED, HOWEVER, CARE MUST BE TAKEN TO PREVENT BURNING PAINT FINISH, EDGE BURS AND SAW DEBRIS BEING DEPOSITED ON FINISHED PRODUCT.
- ALL PANELS, BATTENS AND SEAMS TO HAVE FIELD BENT TRANSITIONS. (EXAMPLE: CHANGE OF PLANE)
- ALL RELATED PANEL TRIM TO HAVE FIELD TRANSITIONS AND FIELD FABRICATED MITERS. (EXAMPLE: TRANSITION BETWEEN RIDGE TO RAKE TRIM OR RAKE TO VERTICAL CORNER TRIM) (EXAMPLE: MITERS - 90° CORNERS FOR SILL TRIM)
- ALL CONTINUOUS LENGTHS OF PANEL TRIM TO BE NOTCHED, LAPPED AND SEALED 3" MINIMUM AT LAP SPLICES. (TYPICAL)
- PANEL TRIM'S THERMAL MOVEMENT OCCURS AT LAP SPLICES DO NOT ANCHOR TRIM AT LAP SPLICES. (TYPICAL)

FINISH SPECIFICATIONS:

ROOF PANEL: R-MER SPAN

MATERIAL: 0.040" ALUMINUM

FINISH: FLUOROCARBON-70% RESIN (Kynar 500)

COLOR: STANDARD "TBD"

FOR REVIEW

ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

CUSTOMER: ANSONIA PUBLIC SCHOOL - FACILITIES

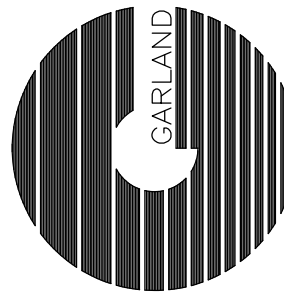
DATE: 03/26/25

AGENT: STEVE BOTELHO

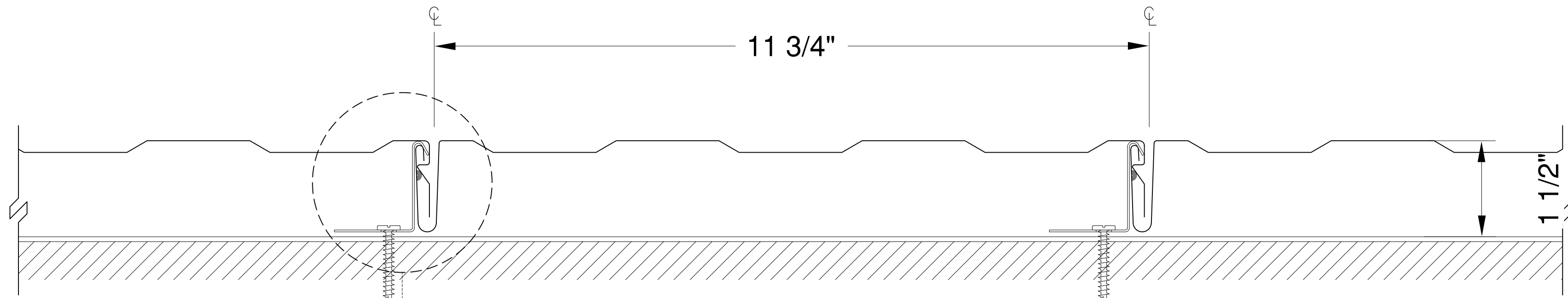
ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC

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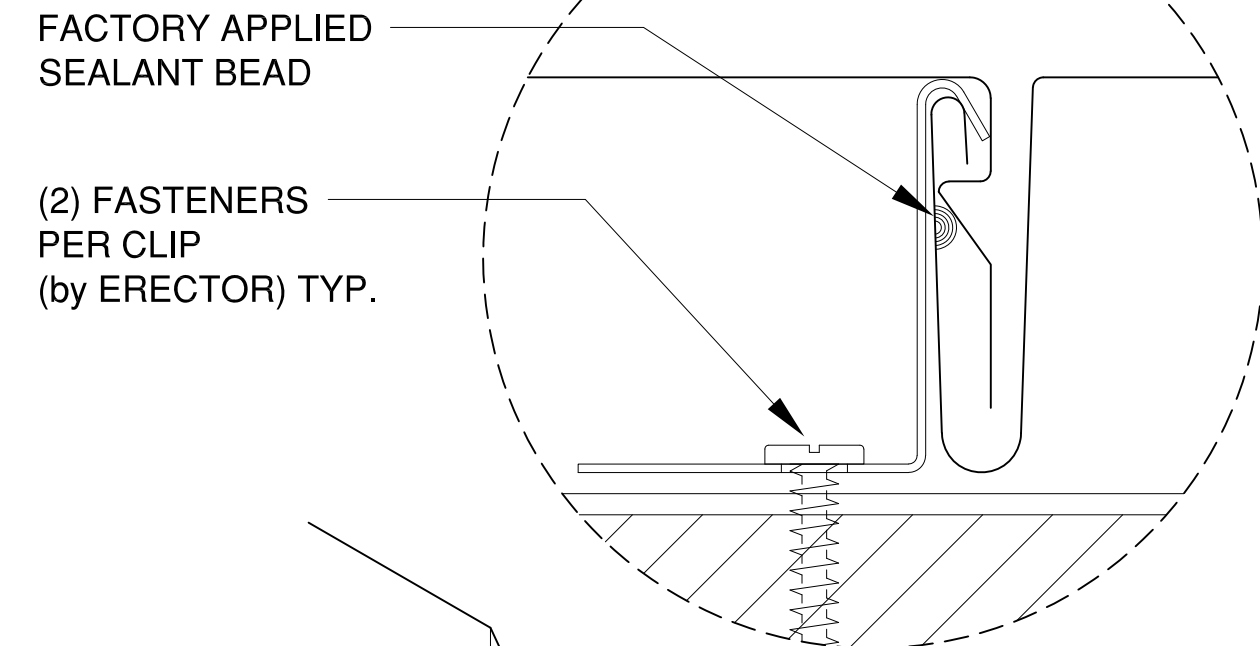
CHK BY: --



THE GARLAND COMPANY INC.  
3800 EAST 91st STREET - CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-9336 / FAX (216) 641-0633

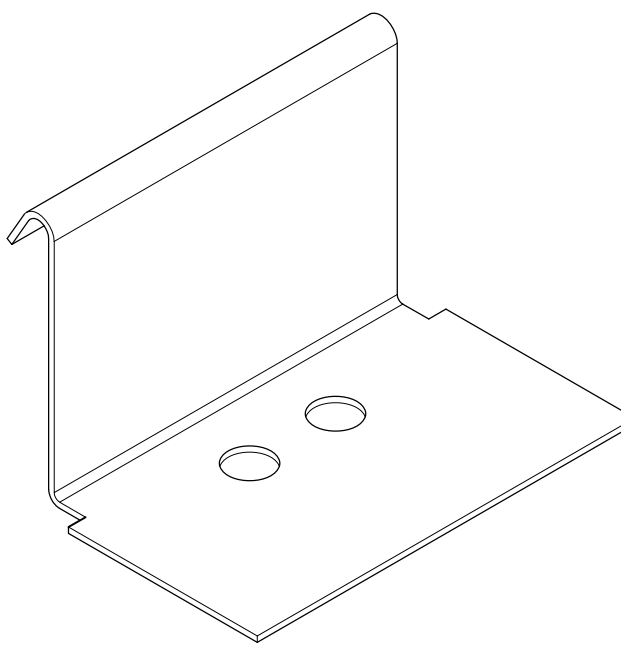


R-MER WALL 1.5 WALL PANEL  
MESA PROFILE SHOWN

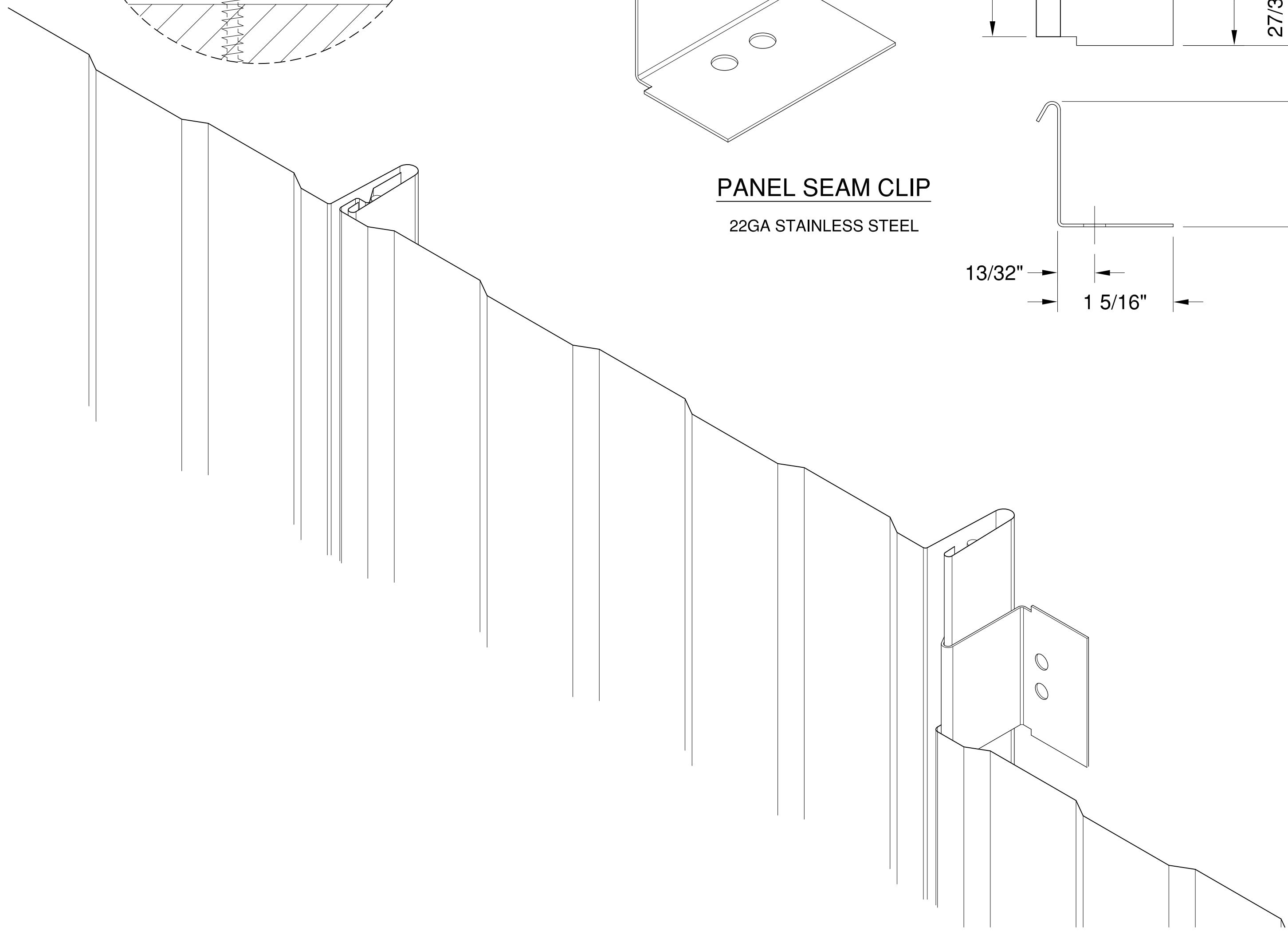
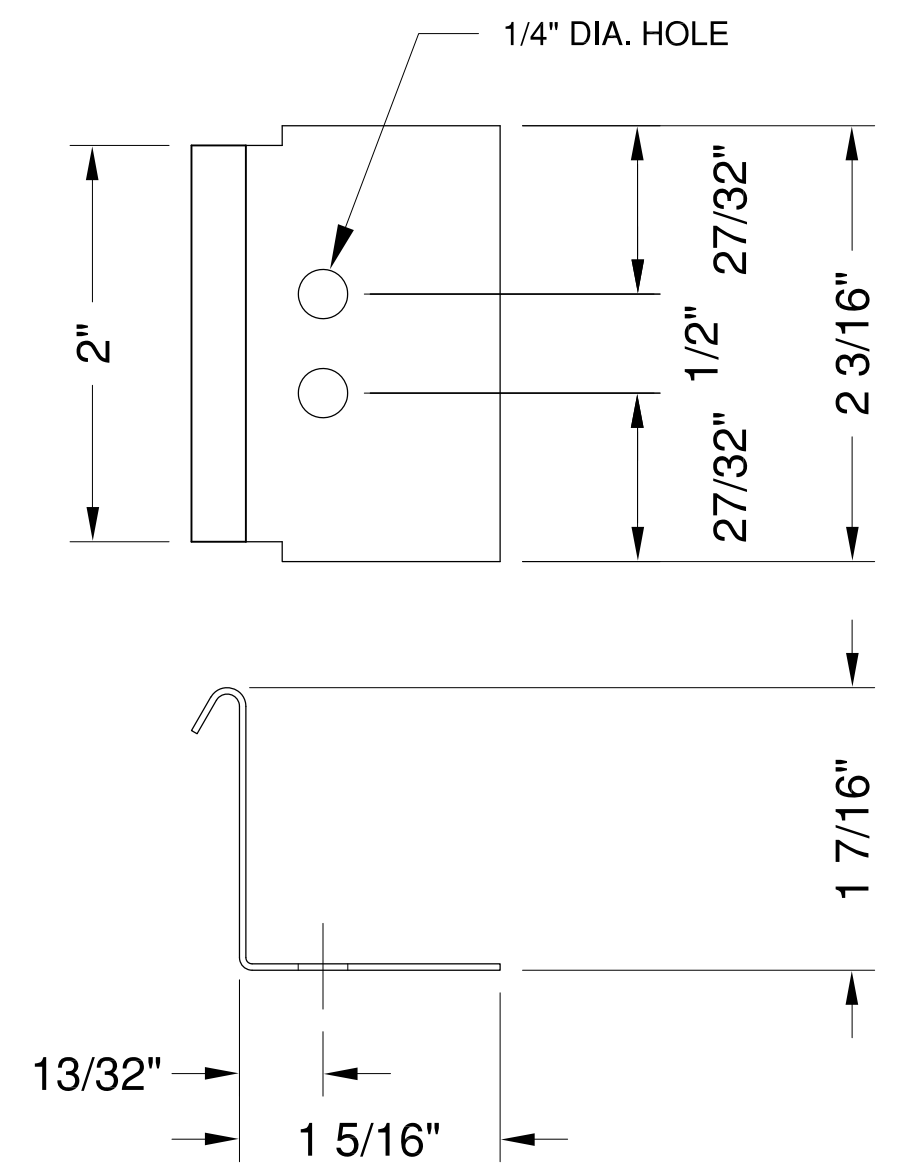


FACTORY APPLIED  
SEALANT BEAD

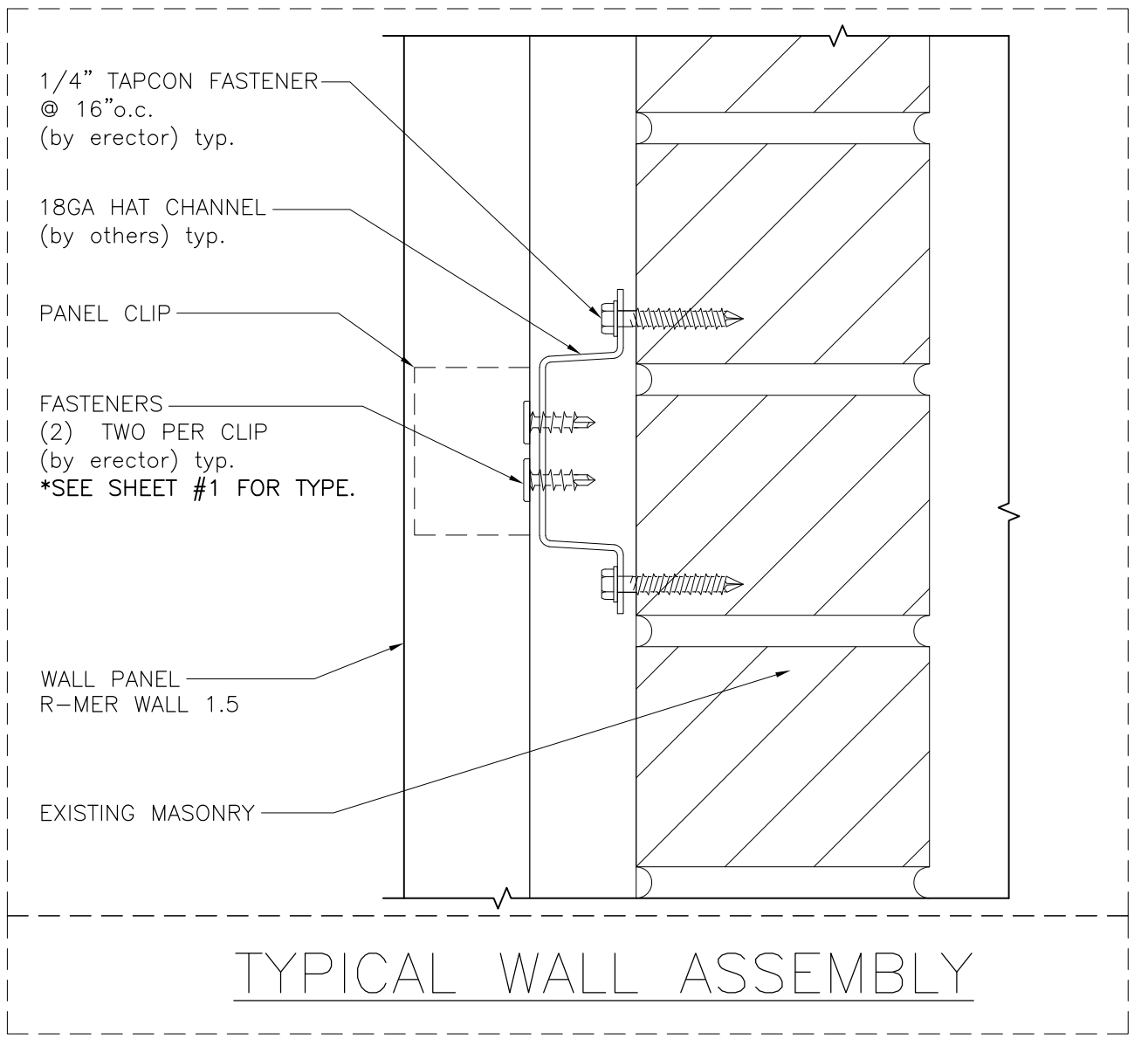
(2) FASTENERS  
PER CLIP  
(by ERECTOR) TYP.



PANEL SEAM CLIP  
22GA STAINLESS STEEL



MAXIMUM PANEL LENGTH AVAILABLE  
DUE TO MATERIAL HANDLING IS 24'-0"



TYPICAL WALL ASSEMBLY

**FINISH SPECIFICATIONS:**

**WALL PANEL: R-MER WALL 1.5**

MATERIAL: 0.040" ALUMINUM

FINISH: FLUOROCARBON-70% RESIN (Kynar 500)

COLOR: STANDARD "TBD"

FOR REVIEW

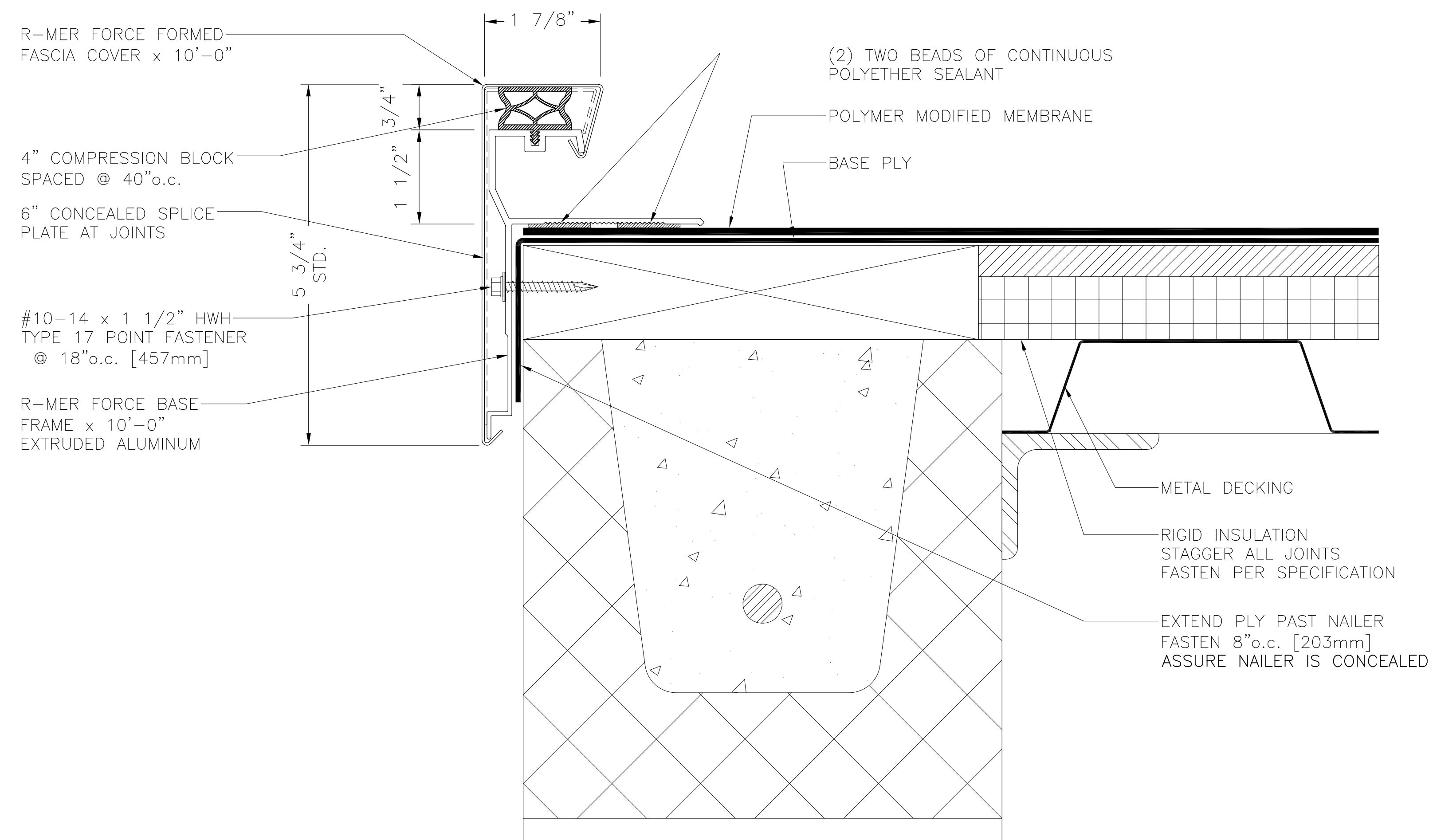
ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

CUSTOMER: ANSONIA PUBLIC SCHOOL – FACILITIES  
AGENT: STEVE BOTELHO

ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC  
DATE: 03/26/25 DWG BY: MEC CHK BY: --



**THE GARLAND COMPANY INC.**  
3800 EAST 91st STREET – CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-9336 / FAX (216) 641-0633



### FINISH SPECIFICATIONS:

### FASCIA PANEL: R-MER FORCE

MATERIAL: 0.040" ALUMINUM

FINISH: FLUOROCARBON-70% RESIN (Kynar 500)

COLOR: STANDARD "TBD"

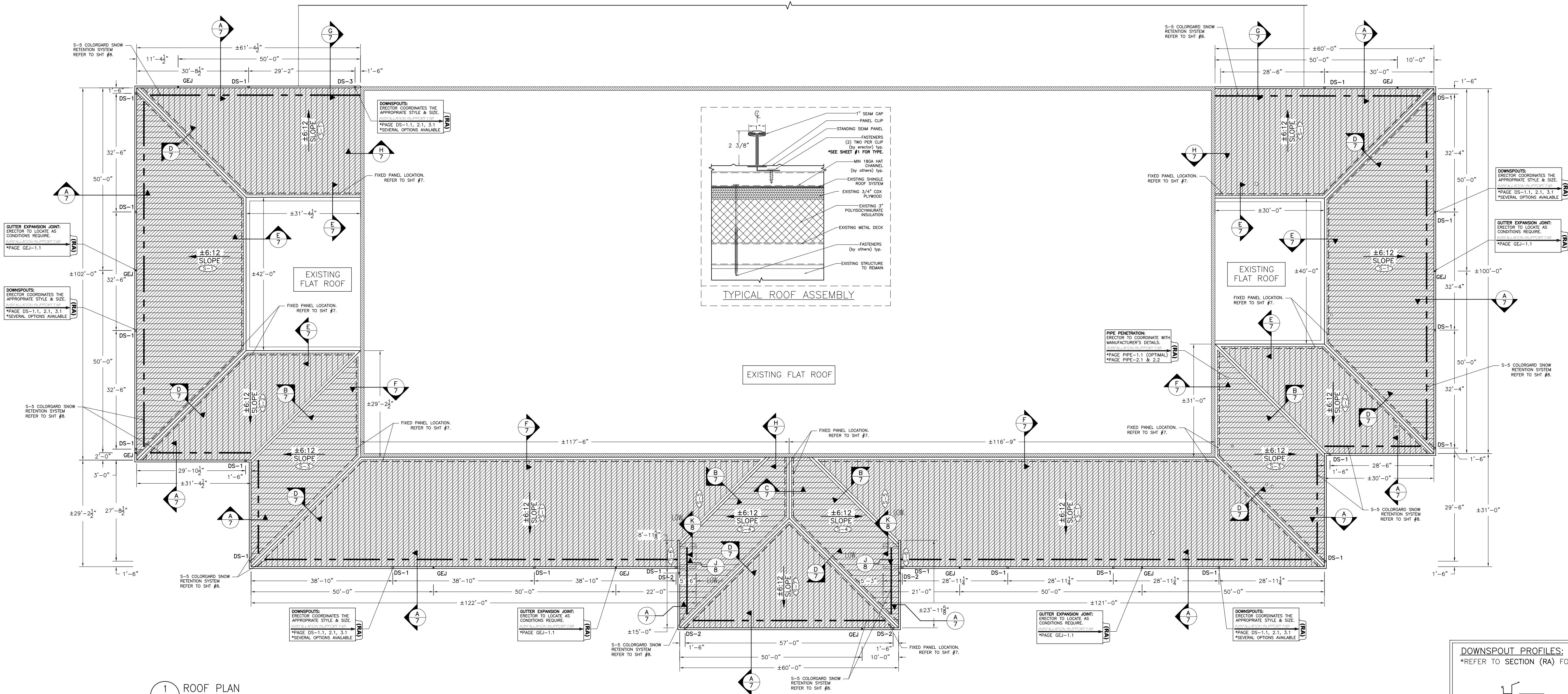
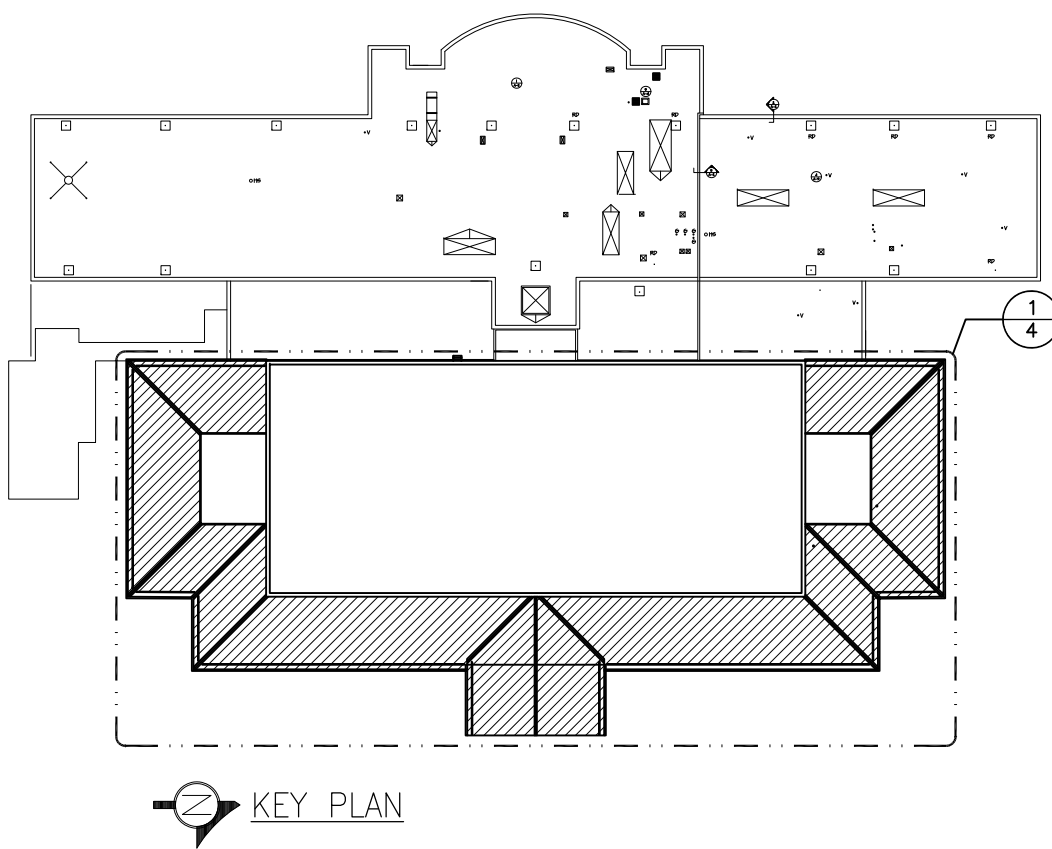
FOR REVIEW



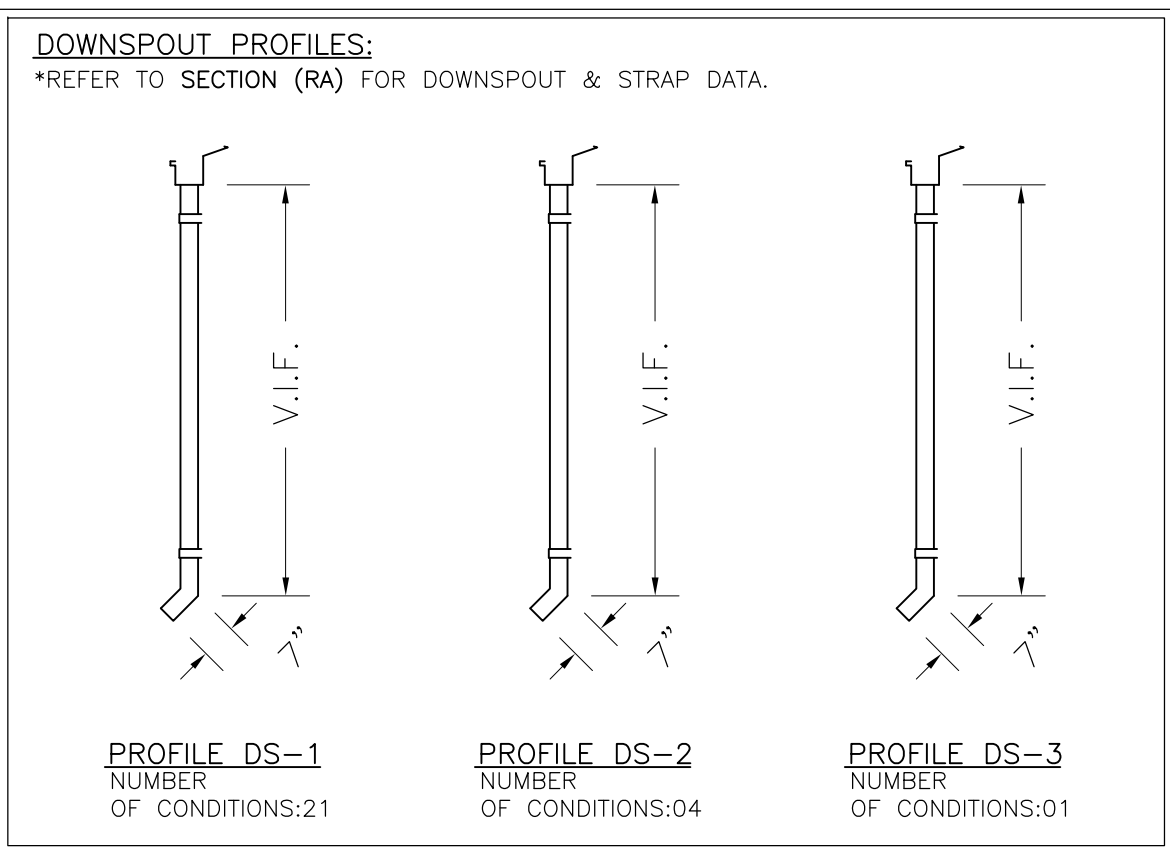
ALL ROOF DIMENSIONS MUST BE FIELD VERIFIED

FOR REVIEW

1 ROOF PLAN  
4 ARCH. REF. : 1/A-1



NOTE:  
ALL DOWNSPOUT LOCATION  
MUST BE FIELD VERIFIED.



SMACNA GUIDELINES:  
GARLAND RECOMMENDS FOLLOWING SMACNA  
GUIDELINES FOR THE SIZING AND LOCATION OF  
GUTTERS, DOWNSPOUTS, AND EXPANSION JOINTS.

ERECTOR NOTE:  
ALL MATERIAL SUPPLIED IS 0.040" ALUMINUM.  
ALL TRIM COMPONENTS ARE TO BE FABRICATED BY  
THE ERECTOR FROM FLAT SHEET SUPPLIED.

TRIM LAP DETAILS:  
ERECTOR TO COORDINATE WITH  
MANUFACTURER'S DETAILS.  
INSTALLATION SUPPORT TAB  
\*REFER TO TRIM LAP DETAILS  
IN THIS SECTION.

PANEL CLIP SPACING				
PROVIDED BELOW ARE THE <b>MAXIMUM</b> ALLOWABLE ROOF PANEL CLIP SPACINGS.				
ROOF PANEL CLIPS MAY BE INSTALLED CLOSER TOGETHER THAN THE ALLOWABLE O.C. MAXIMUMS IF JOB-SITE CONDITIONS REQUIRE. HOWEVER, PANEL CLIPS MUST 'NOT' EXCEED THE MANUFACTURER'S PROVIDED O.C. MAXIMUMS.				
ASCE 7-16 ASD COMPONENTS and CLADDING - METHOD 2				
BASIC WIND SPEED: 128 MPH WIND IMPORTANCE FACTOR (I): III(1.15) WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: ±0.18 or ±0.55				
ZONE DESIGNATION:	ZONE TYPE:	DESCRIPTION:	ROOF PRESSURES:	CLIP SPACING:
	ZONE 1	(Field of Roof)	47.1 PSF	4'-8" o.c. MAX.
	ZONE 2e 2r & 3	(Eave, Ridge, Hip, Valley & Corners)	61.6 PSF	3'-7" o.c. MAX.
FIXED PANEL CLIP LOCATIONS:				
LINE TYPE:	DESCRIPTION:		EXPLANATION:	
----	PANEL FIXED LOCATION		DESIGNATES A ROW OF 'FIXED' PANEL CLIPS.	

SUBSTRATE LENGTH SCHEDULE:			
PROVIDED BELOW ARE <b>ESTIMATED SUBSTRATE LENGTHS (NOT PANEL LENGTHS)</b> . AS PROVIDED TO GARLAND OR AS SCALED BY GARLAND FROM CONSTRUCTION DRAWINGS.			
● THESE SUBSTRATE LENGTHS ARE PROVIDED FOR REVIEW AND <b>MUST BE FIELD VERIFIED</b> .			
● ERECTOR MUST THEN REFERENCE THE APPROPRIATE DETAILS WITHIN THE SHOP DRAWINGS TO CALCULATE THE CORRECT ROOF PANEL LENGTHS REQUIRED. YOU MAY NOTE THESE CALCULATED PANEL LENGTHS IN THE SPACES PROVIDED BELOW.			
● ERECTOR TO COORDINATE JOB SITE CONDITIONS WITH SHOP DRAWING DETAILS TO DETERMINE REQUIRED PANEL QUANTITIES AND LENGTHS. THIS ITEMIZED CUT IS TO BE FORWARDED TO GARLAND FOR MATERIAL RELEASE AND PRODUCTION.			
<b>DO NOT USE THE SUBSTRATE LENGTHS AS THE PANEL LENGTHS!</b>			
SUBSTRATE DESIGNATION:	SUBSTRATE LENGTH:	CALCULATE:	REQUIRED PANEL LENGTHS:
(S-1)	±33'-6"	<b>NOTE:</b> Use the shop drawing details to adjust the substrate length dimension to the panel length required.	=
(S-2)	±33'-5"		=
(S-3)	±32'-7"		=
(S-4)	±25'-9"		=
(S-5)	±26'-5"		=
(S-6)	±6'-2"		=
(S-7)	±33'-6"		=
(-)	---		=
<b>IMPORTANT READ:</b> THE ERECTOR HAS THE SOLE RESPONSIBILITY TO COORDINATE THE SHOP DRAWINGS WITH THE ACTUAL JOB SITE CONDITIONS TO DETERMINE AN ACCURATE AND ITEMIZED MATERIAL 'CUT LIST'. THIS IS CRUCIAL FOR MATERIAL RELEASE AND PANEL PRODUCTION.			

ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC

DATE: 03/26/25 DWG BY: MEC CHK BY: --

CUSTOMER: ANSONIA PUBLIC SCHOOL - FACILITIES

AGENT: STEVE BOTELHO

THE GARLAND COMPANY INC.

3800 EAST 91ST STREET - CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-9336 / FAX (216) 641-0633

REV: 

△	DATE: --/--/---
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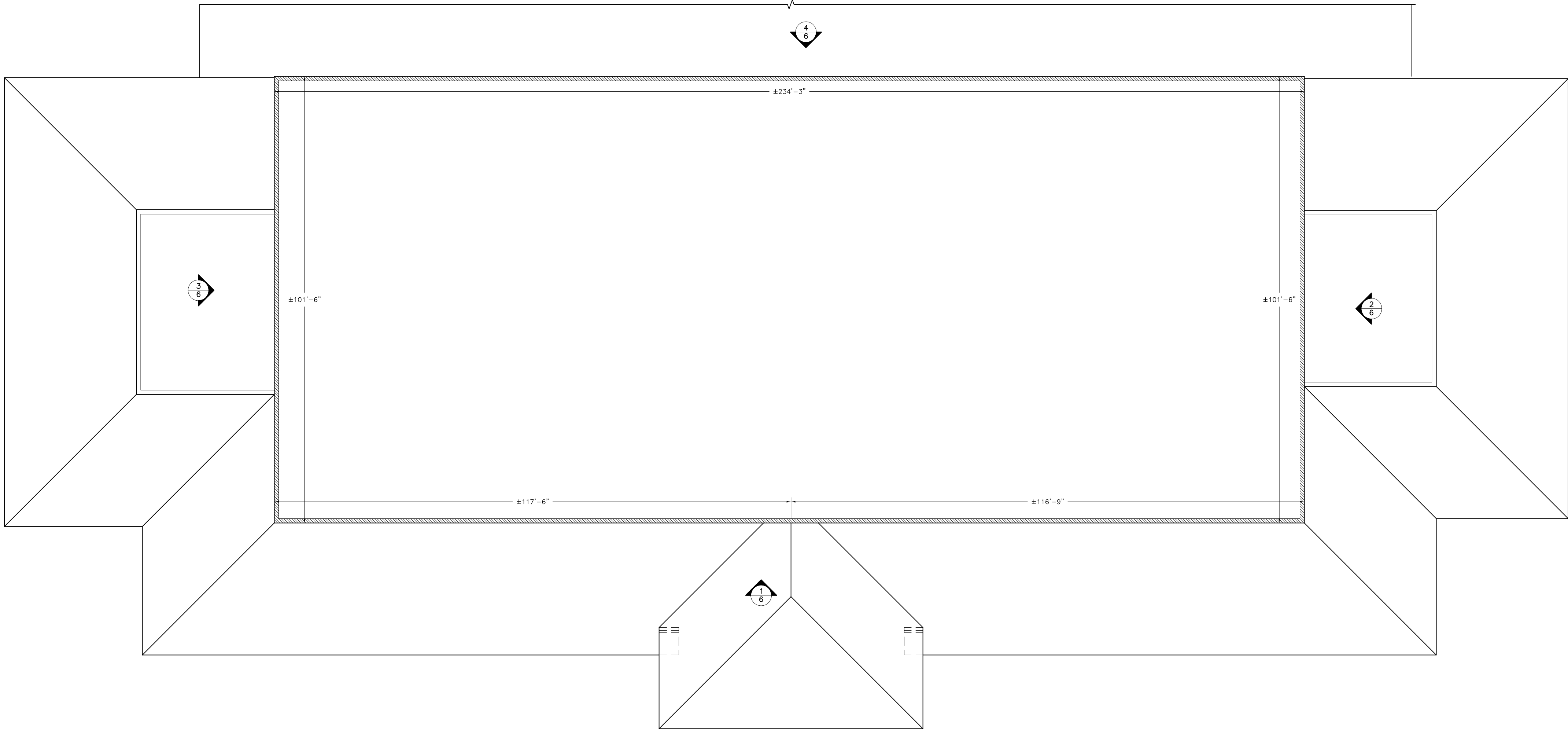
SHEET: 4 OF 9

JOB NUMBER: 40593

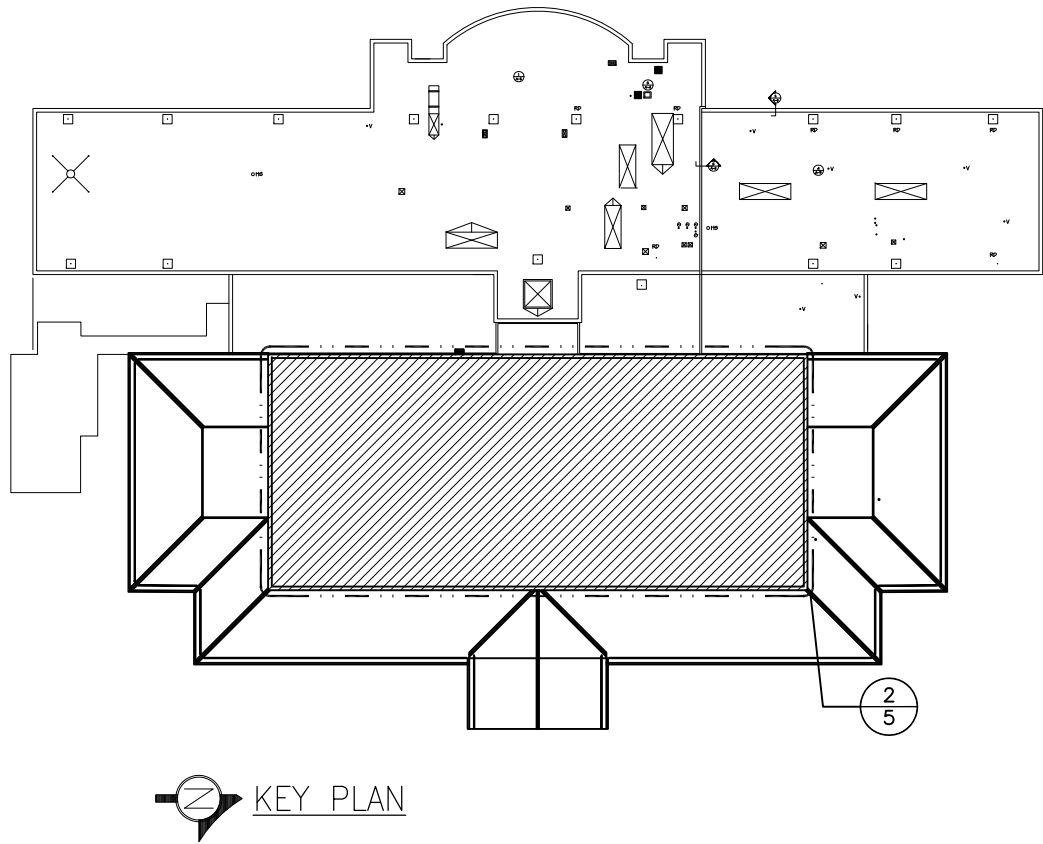


ALL WALL DIMENSIONS MUST BE FIELD VERIFIED

FOR REVIEW



2 WALL PLAN  
5 ARCH. REF. : NA



ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC

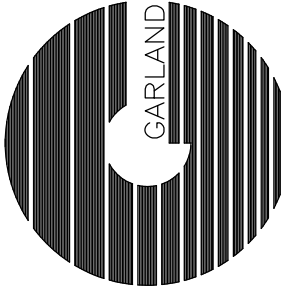
DATE: 03/26/25 DWG BY: MEC CHK BY: --

CUSTOMER: ANSONIA PUBLIC SCHOOL – FACILITIES

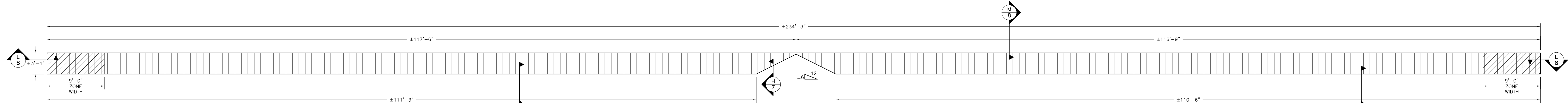
AGENT: STEVE BOTELHO

REV: 

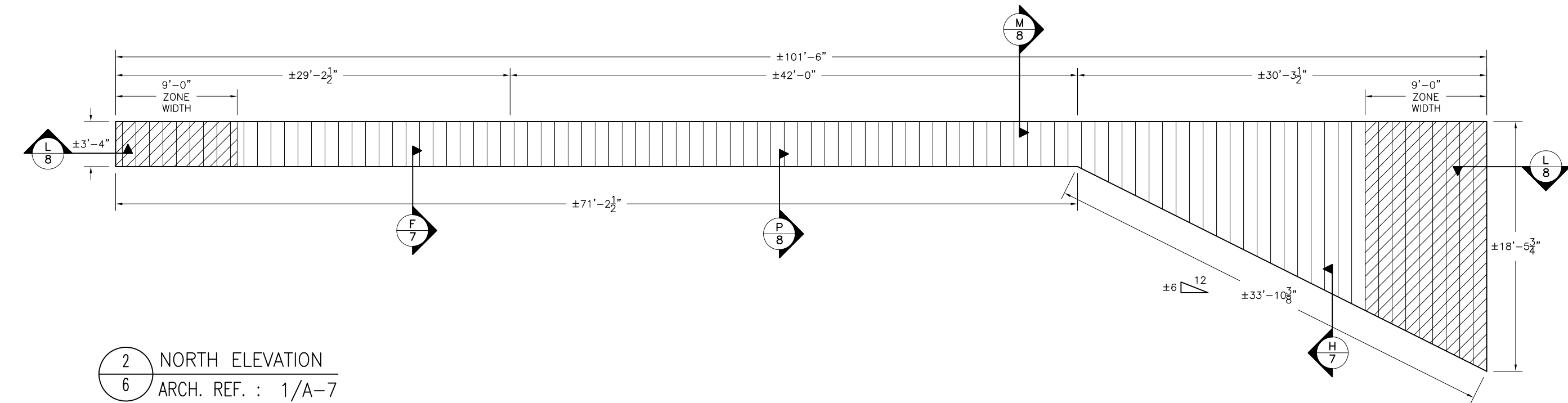
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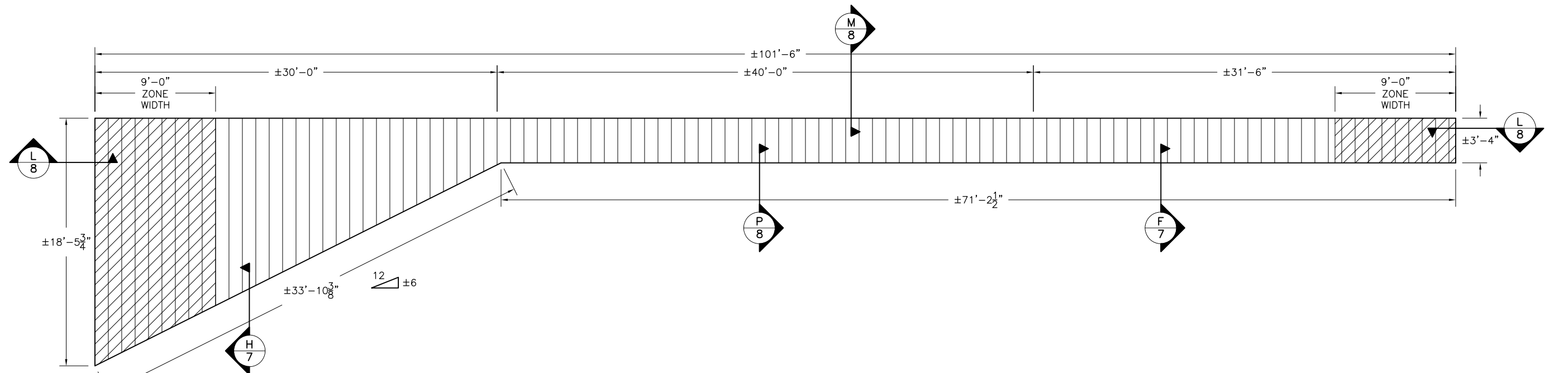
THE GARLAND COMPANY INC.  
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PHONE (800) 321-9336 / FAX (216) 641-0633



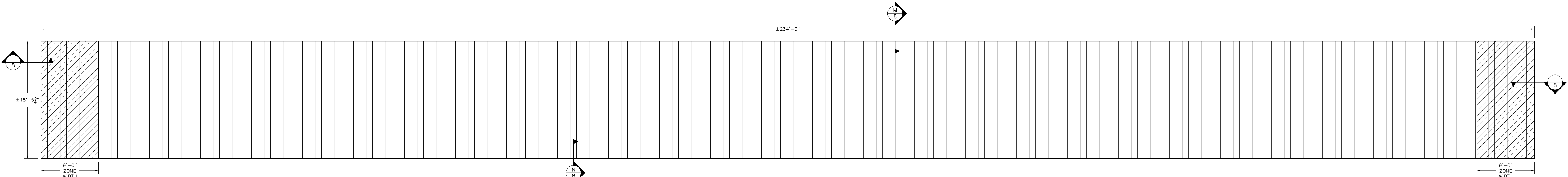
1 EAST ELEVATION  
6 ARCH. REF. : 3/A-7



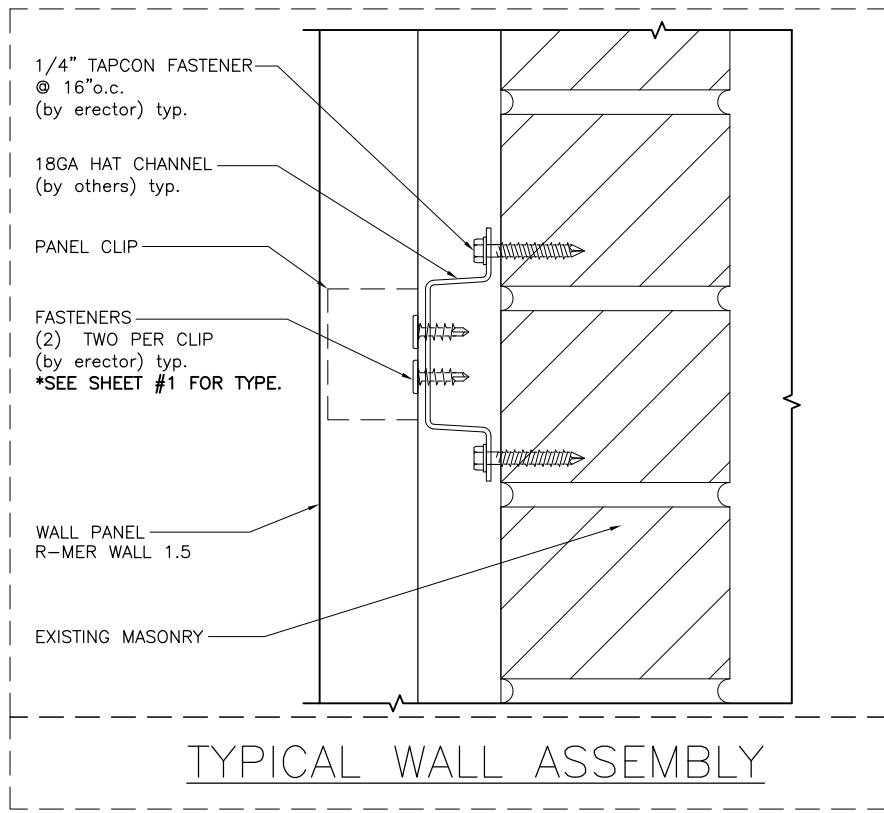
2 NORTH ELEVATION  
6 ARCH. REF. : 1/A-7



3 SOUTH ELEVATION  
6 ARCH. REF. : 2/A-7



4 WEST ELEVATION  
6 ARCH. REF. : 4/A-7



TYPICAL WALL ASSEMBLY

PANEL CLIP SPACING				
PROVIDED BELOW ARE THE <b>MAXIMUM</b> ALLOWABLE WALL PANEL CLIP SPACINGS.				
ROOF PANEL CLIPS MAY BE INSTALLED CLOSER TOGETHER THAN THE ALLOWABLE O.C. MAXIMUMS IF JOB-SITE CONDITIONS REQUIRE. HOWEVER, PANEL CLIPS MUST "NOT" EXCEED THE MANUFACTURER'S PROVIDED O.C. MAXIMUMS.				
ASCE 7-16 ASD COMPONENTS and CLADDING - METHOD 2				
BASIC WIND SPEED: 128 MPH WIND IMPORTANCE FACTOR (I): III(1.15) WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: ±0.18 or ±0.55				
ZONE DESIGNATION:	ZONE TYPE:	DESCRIPTION:	ROOF PRESSURES:	CLIP SPACING:
	ZONE 4	(Field of Wall)	23.2 PSF	3'-0" o.c. MAX.
	ZONE 5	(Corners)	28.7 PSF	2'-0" o.c. MAX.
FIXED PANEL CLIP LOCATIONS:				
LINE TYPE:	DESCRIPTION:	EXPLANATION:		
-----	PANEL FIXED LOCATION	DESIGNATES A ROW OF 'FIXED' PANEL CLIPS.		

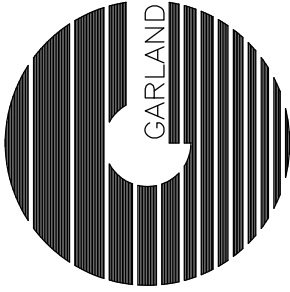
ALL ELEVATION DIMENSIONS MUST BE FIELD VERIFIED

FOR REVIEW

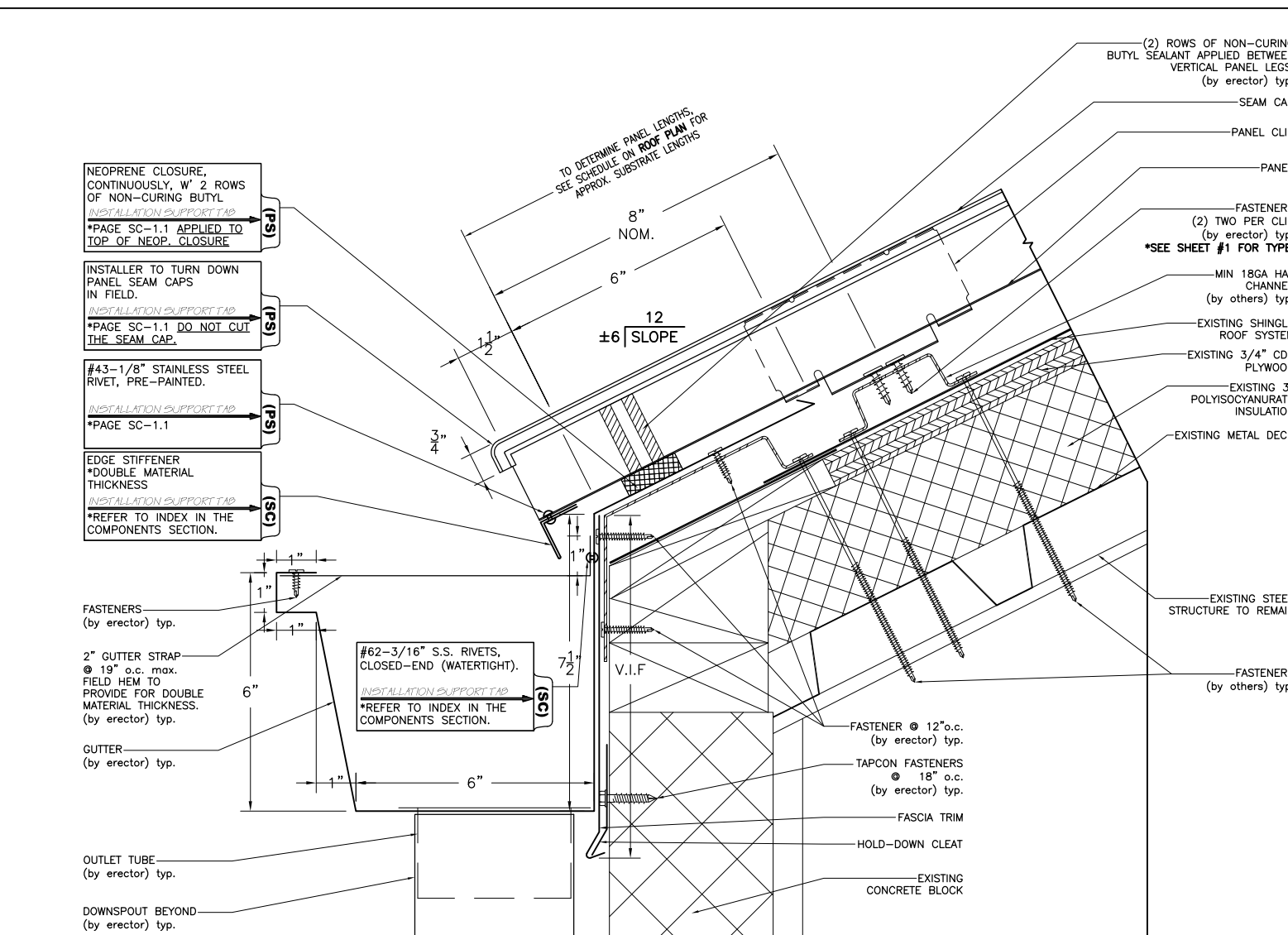
ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

CUSTOMER: ANSONIA PUBLIC SCHOOL - FACILITIES  
AGENT: STEVE BOTELHO

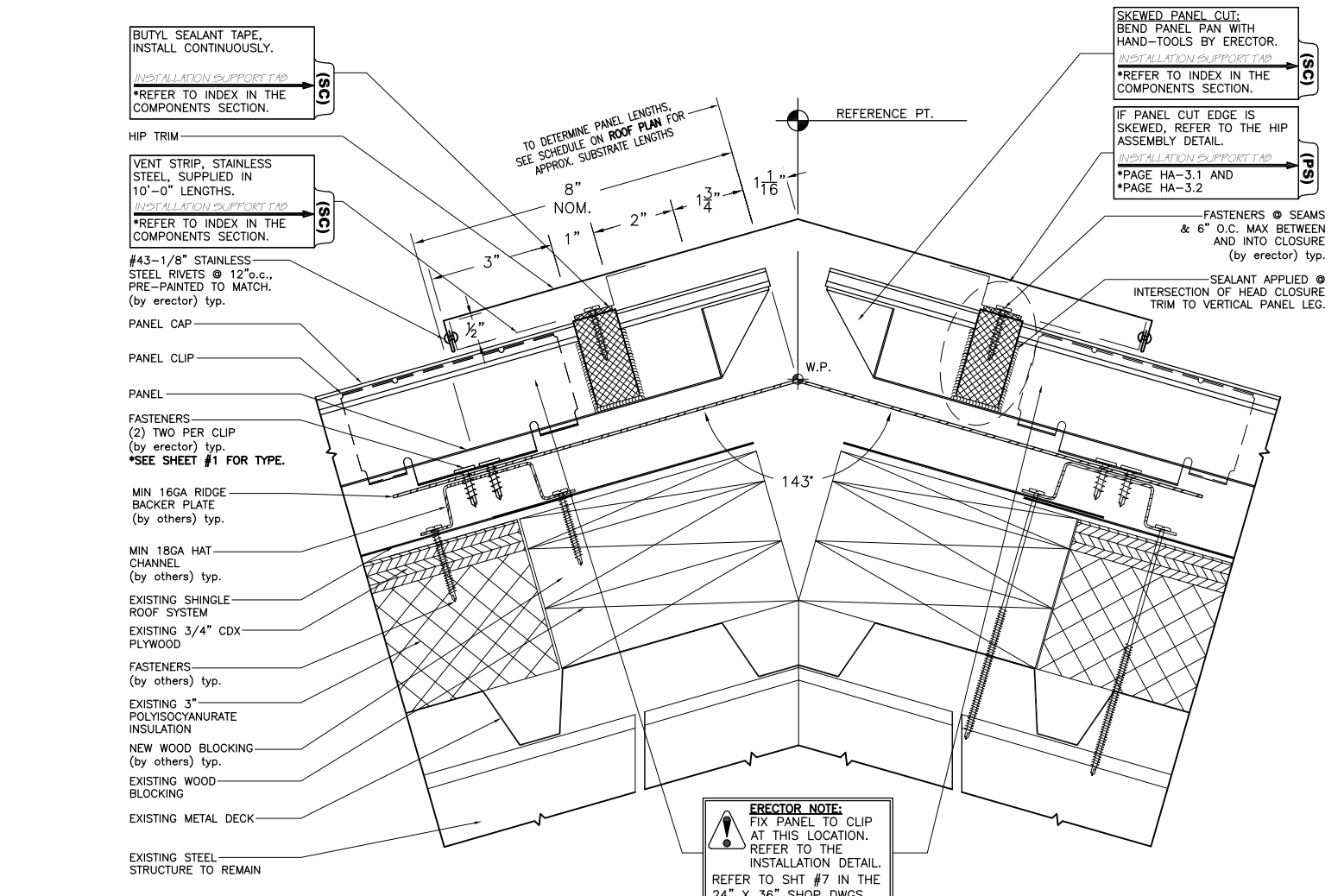
ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC  
DATE: 03/26/25 DWG BY: MEC CHK BY: --



THE GARLAND COMPANY INC.  
3800 EAST 91st STREET - CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-9336 / FAX (216) 641-0633

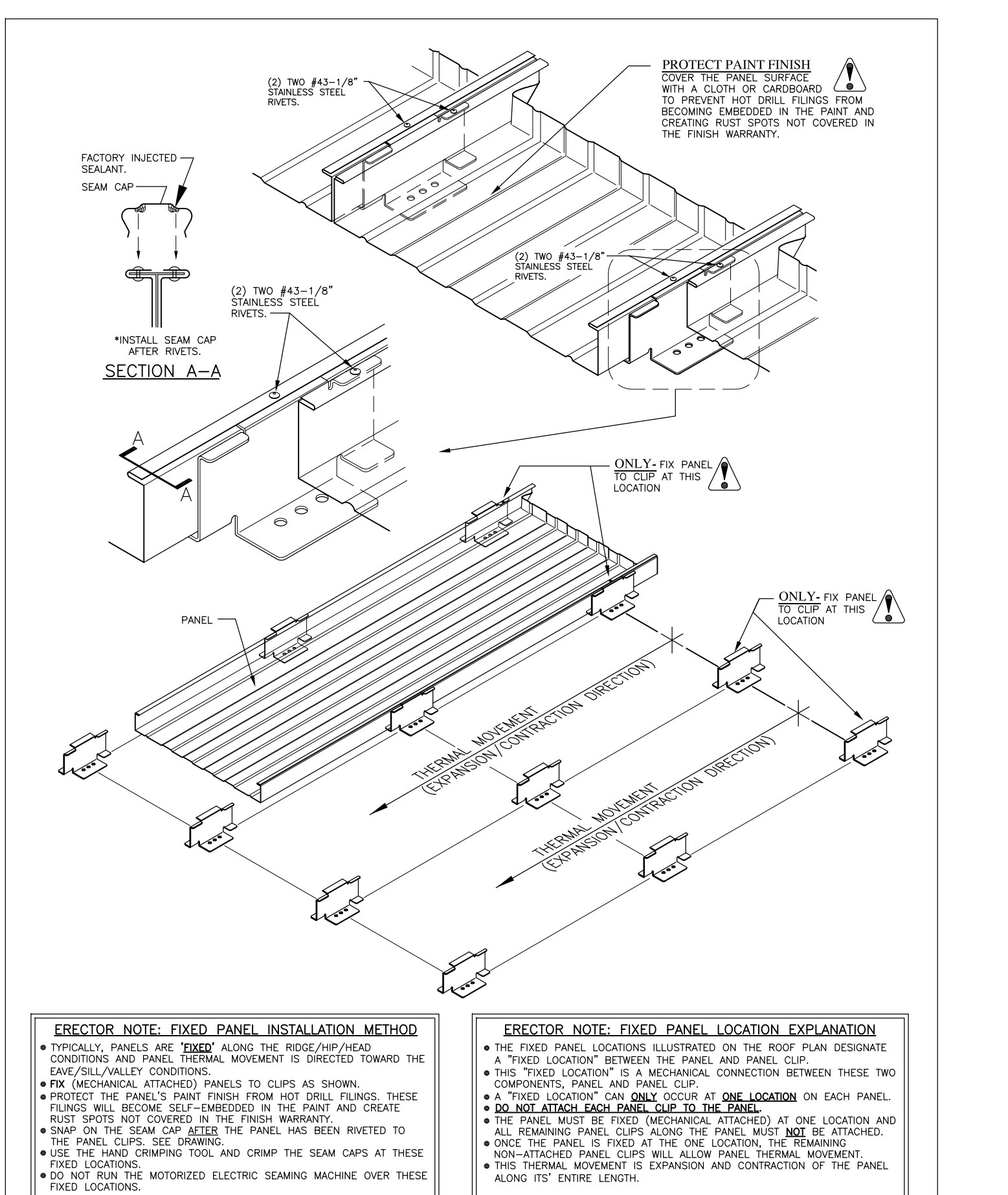


**A** EXPANDING EAVE WITH GUTTER DETAIL  
7 ARCH. REF. : 1/A-5

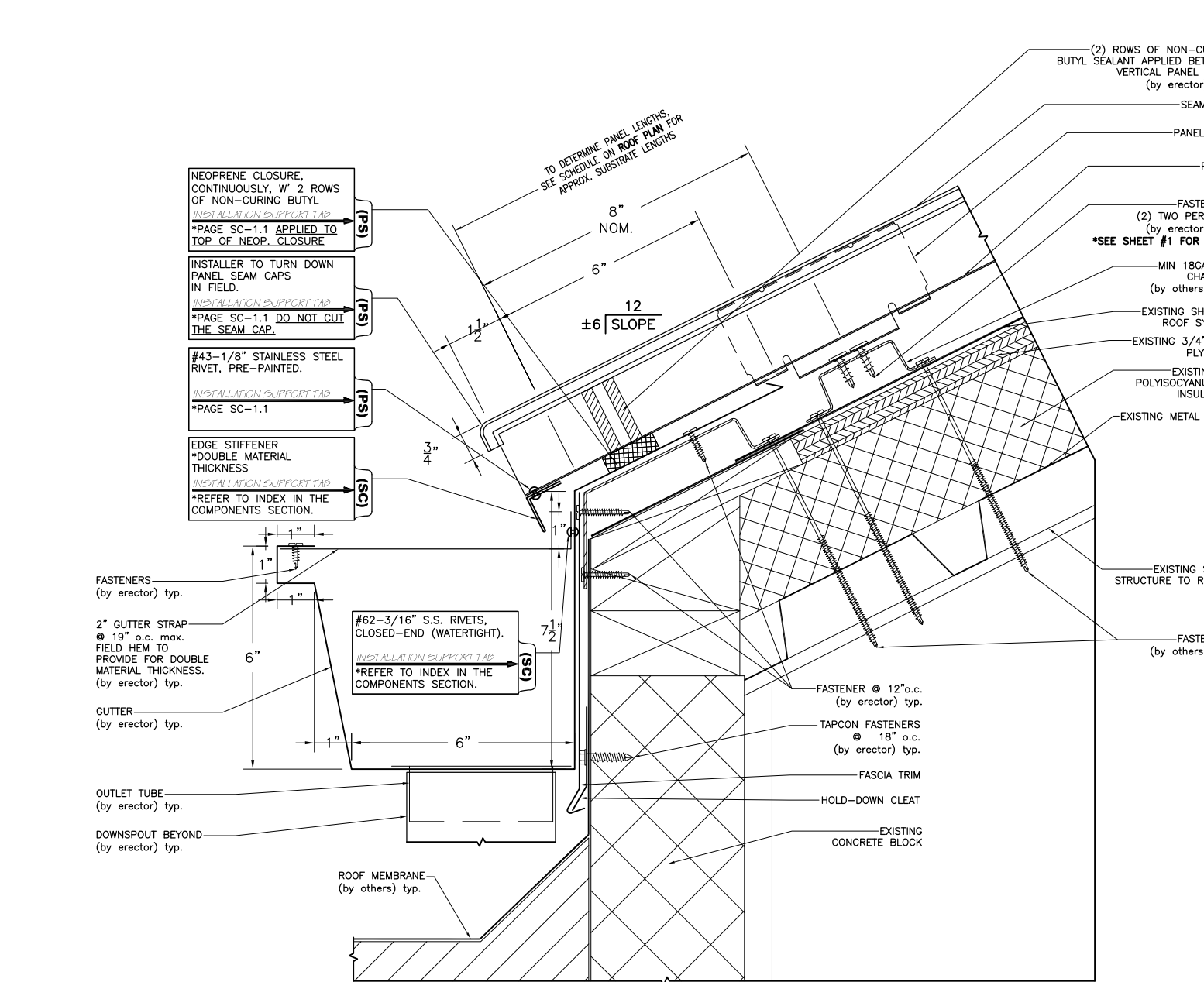


**B** EXPANDING VALLEY DETAIL  
7 ARCH. REF. : 1/A-6

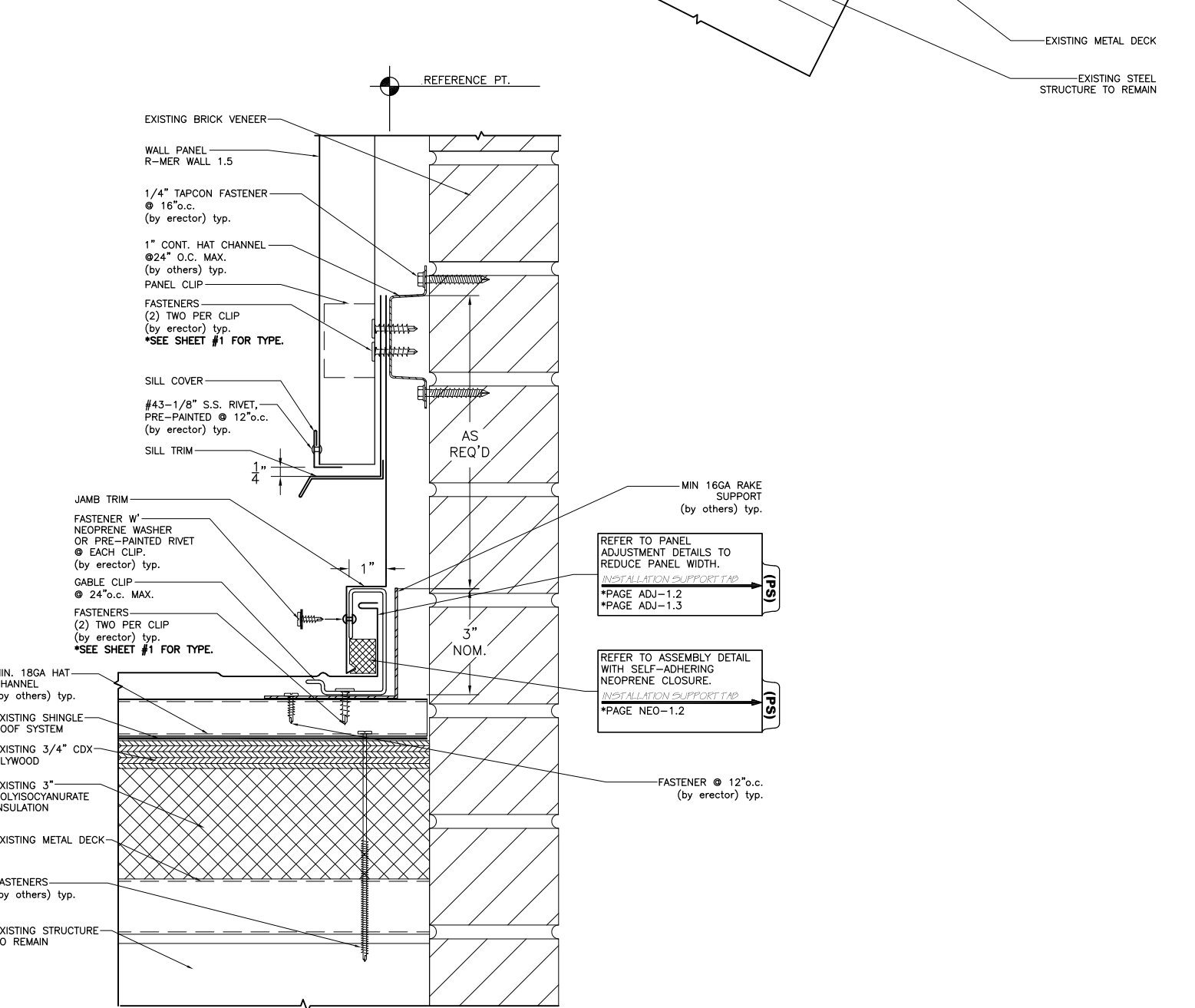
**D** FIXED VENTED HIP DETAIL  
7 ARCH. REF. : NA



**E** VENTED SHED RIDGE DETAIL  
7 ARCH. REF. : 3/A-5



**F** FIXED VENTED HEAD DETAIL  
7 ARCH. REF. : 2/A-5



**H** SLOPING JAMB DETAIL  
7 ARCH. REF. : NA

**ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD**

- TYPICALLY, PANELS ARE TIED ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SLOPE/VALLEY CONDITIONS.
- PROTECT THE PANEL'S PAINT FINISH FROM HOT DRILL FLINGS. THESE FLINGS WILL BECOME SELF-EMBEDDED IN THE PAINT AND CREATE RUST SPOTS NOT COVERED IN THE FINISH WARRANTY.
- FIX (MECHANICAL ATTACHED) PANELS TO CLIPS AS SHOWN.
- THE PANEL MUST BE FIXED (MECHANICAL ATTACHED) AT ONE LOCATION AND ALL REMAINING PANEL CLIPS ALONG THE PANEL MUST NOT BE ATTACHED.
- ONCE THE PANEL IS FIXED AT THE ONE LOCATION, THE REMAINING NON-ATTACHED PANEL CLIPS WILL ALLOW PANEL THERMAL MOVEMENT.
- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.

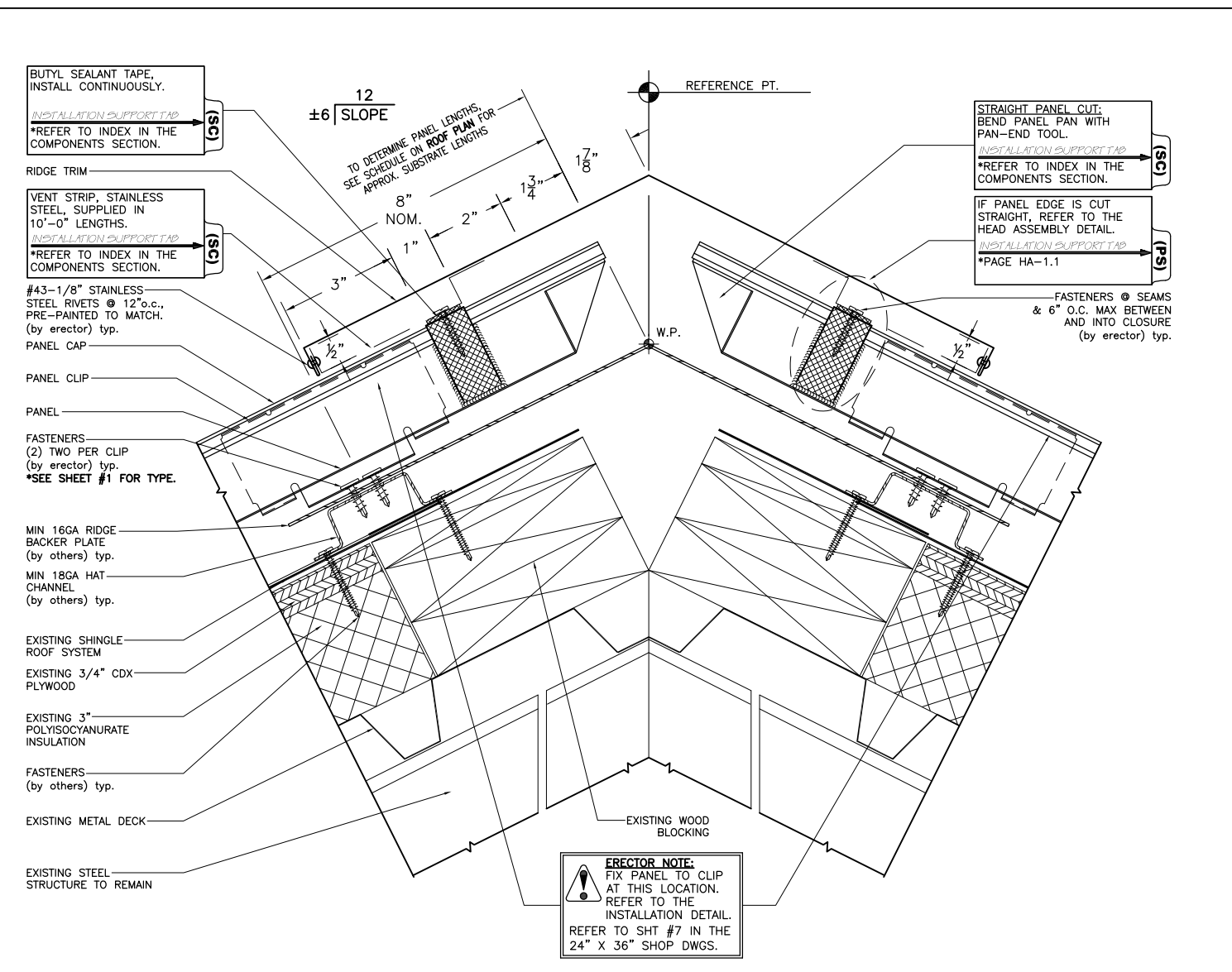
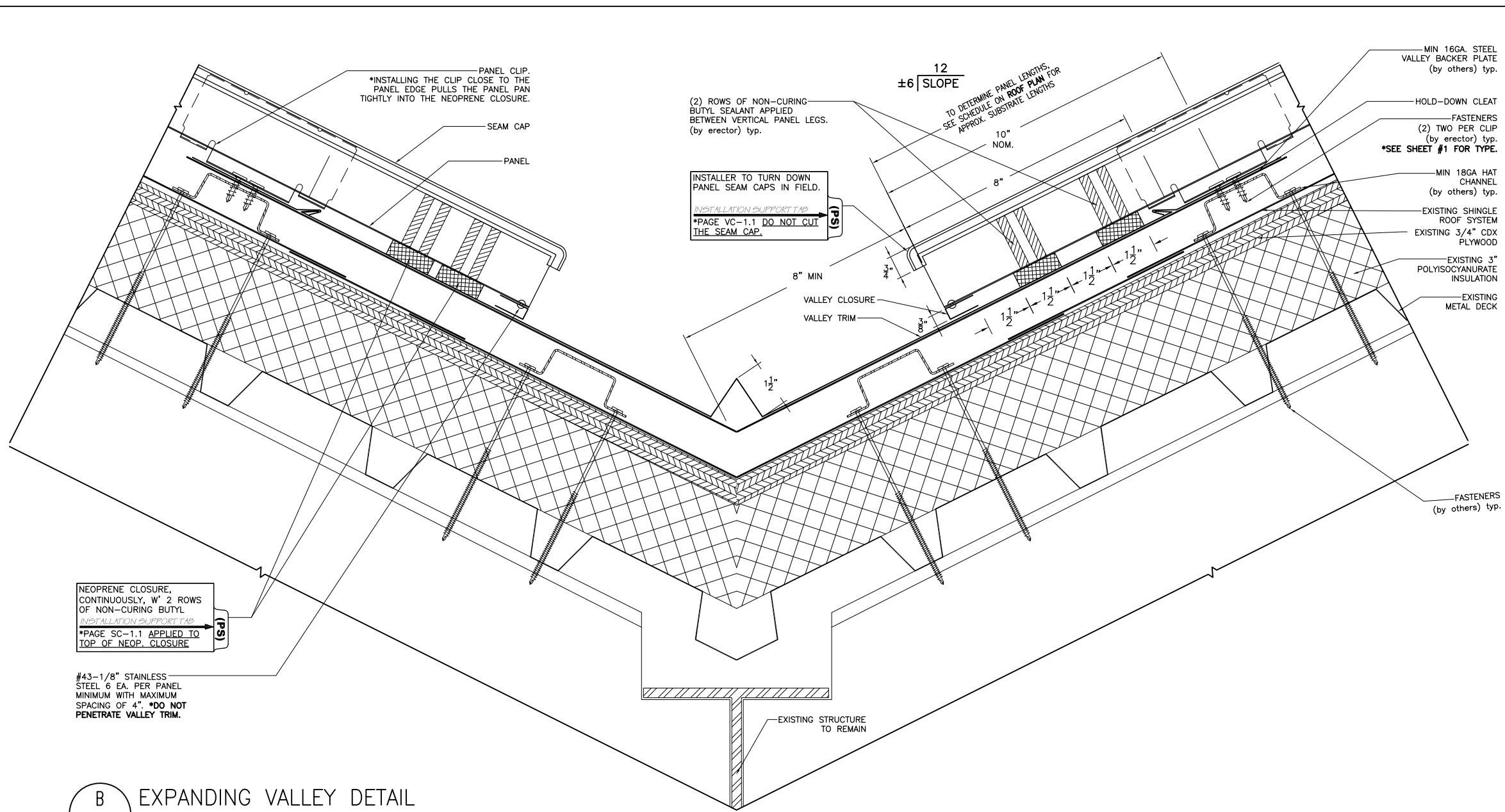
**ERECTOR NOTE: FIXED PANEL LOCATION EXPLANATION**

- THE FIXED PANEL LOCATIONS ILLUSTRATED ON THE ROOF PLAN DESIGNATE A "FIXED LOCATION" BETWEEN THE PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" IS A MECHANICAL CONNECTION BETWEEN THESE TWO COMPONENTS, PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" CAN ONLY OCCUR AT ONE LOCATION ON EACH PANEL.
- DO NOT ATTACH EACH PANEL CLIP TO THE PANEL.
- THE PANEL MUST BE FIXED (MECHANICAL ATTACHED) AT ONE LOCATION AND ALL REMAINING PANEL CLIPS ALONG THE PANEL MUST NOT BE ATTACHED.
- ONCE THE PANEL IS FIXED AT THE ONE LOCATION, THE REMAINING NON-ATTACHED PANEL CLIPS WILL ALLOW PANEL THERMAL MOVEMENT.
- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.

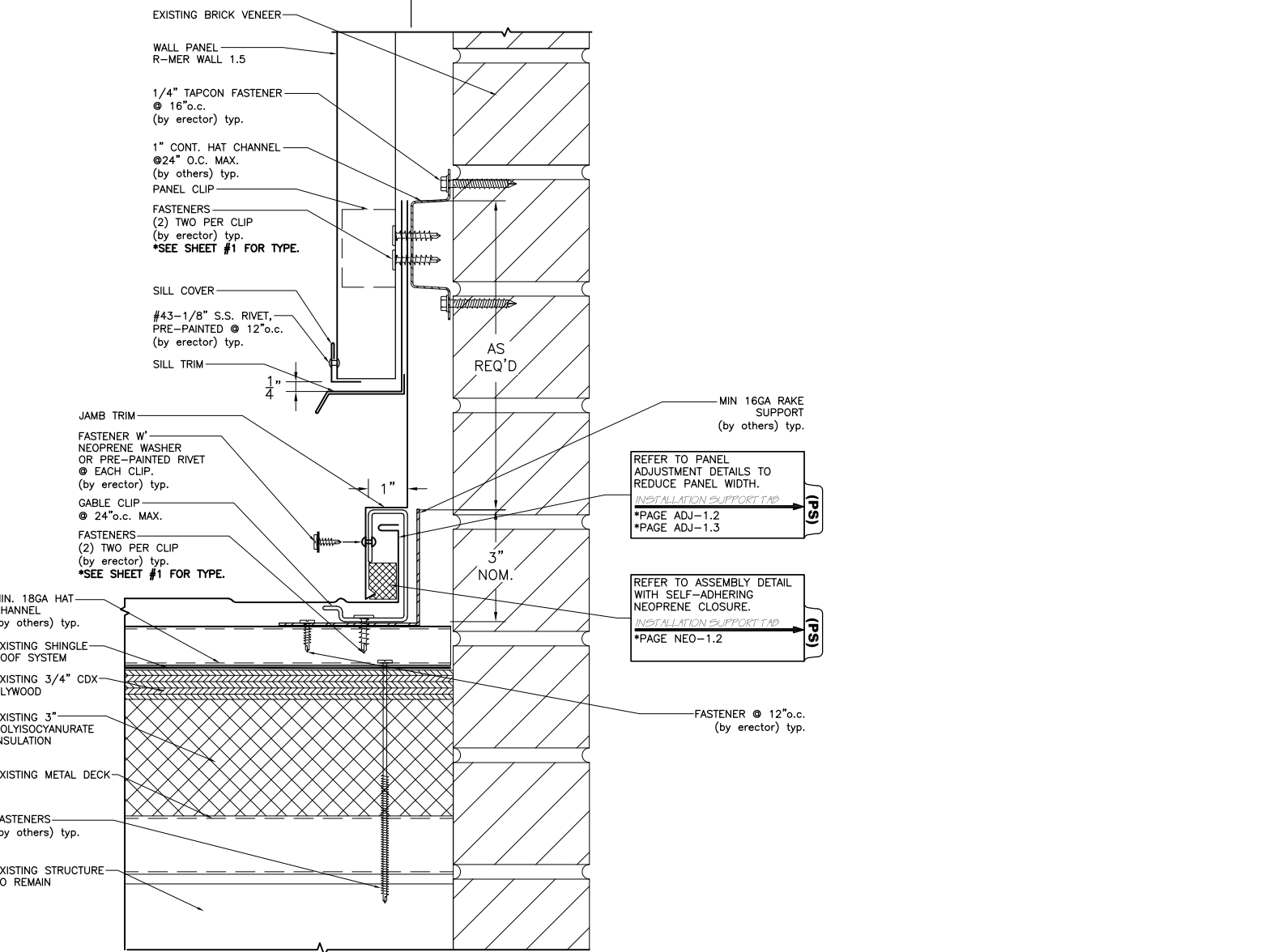
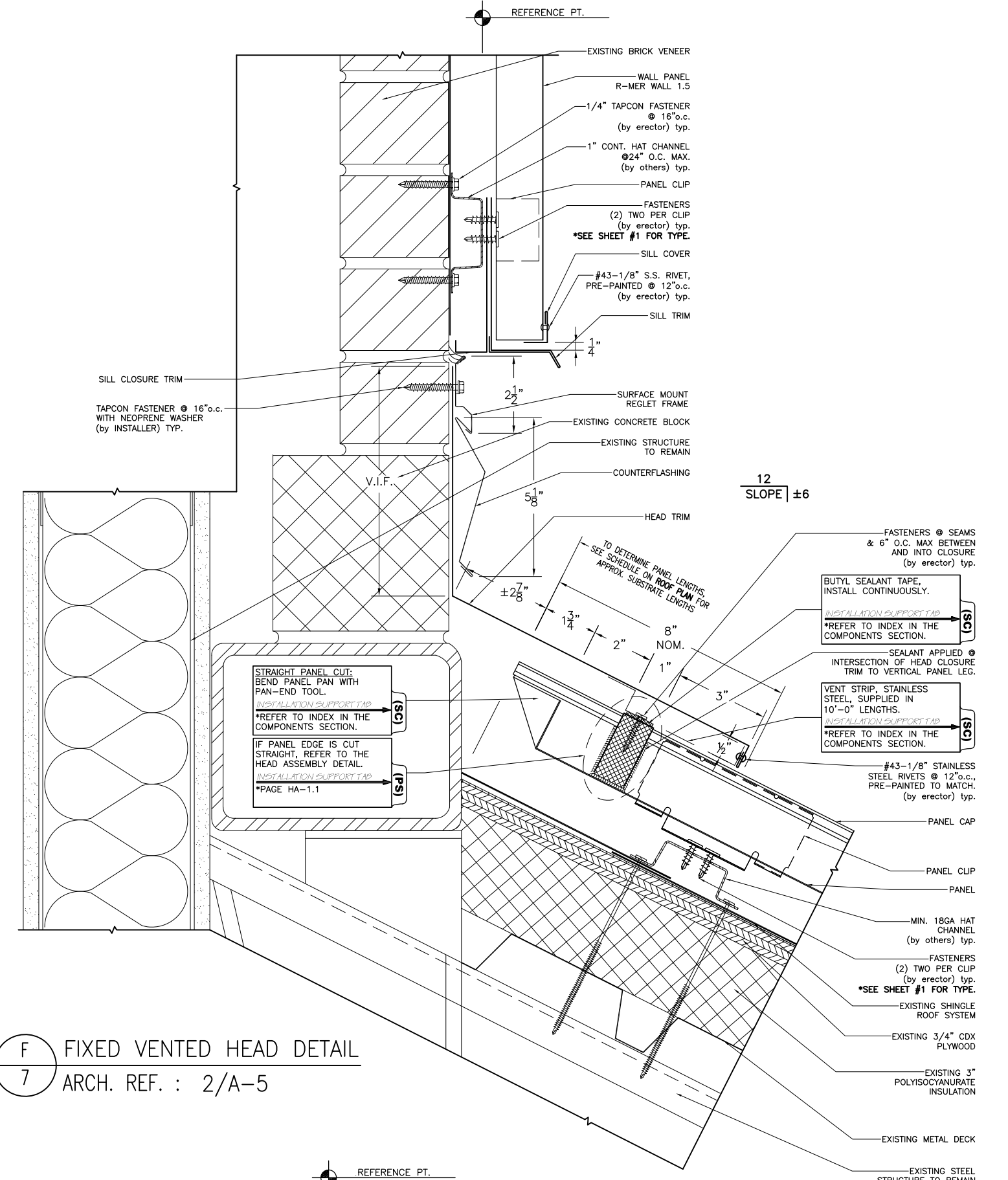
**2-Rivet Fixed Panel Detail**

SEE ROOF PLAN FOR CORRECT PLACEMENT OF THE PANEL'S FIXED LOCATIONS.

IF THIS IS UNCLEAR IN ANY MANNER, DO NOT INSTALL PANELS AND CONTACT THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE FOR CLARIFICATIONS.

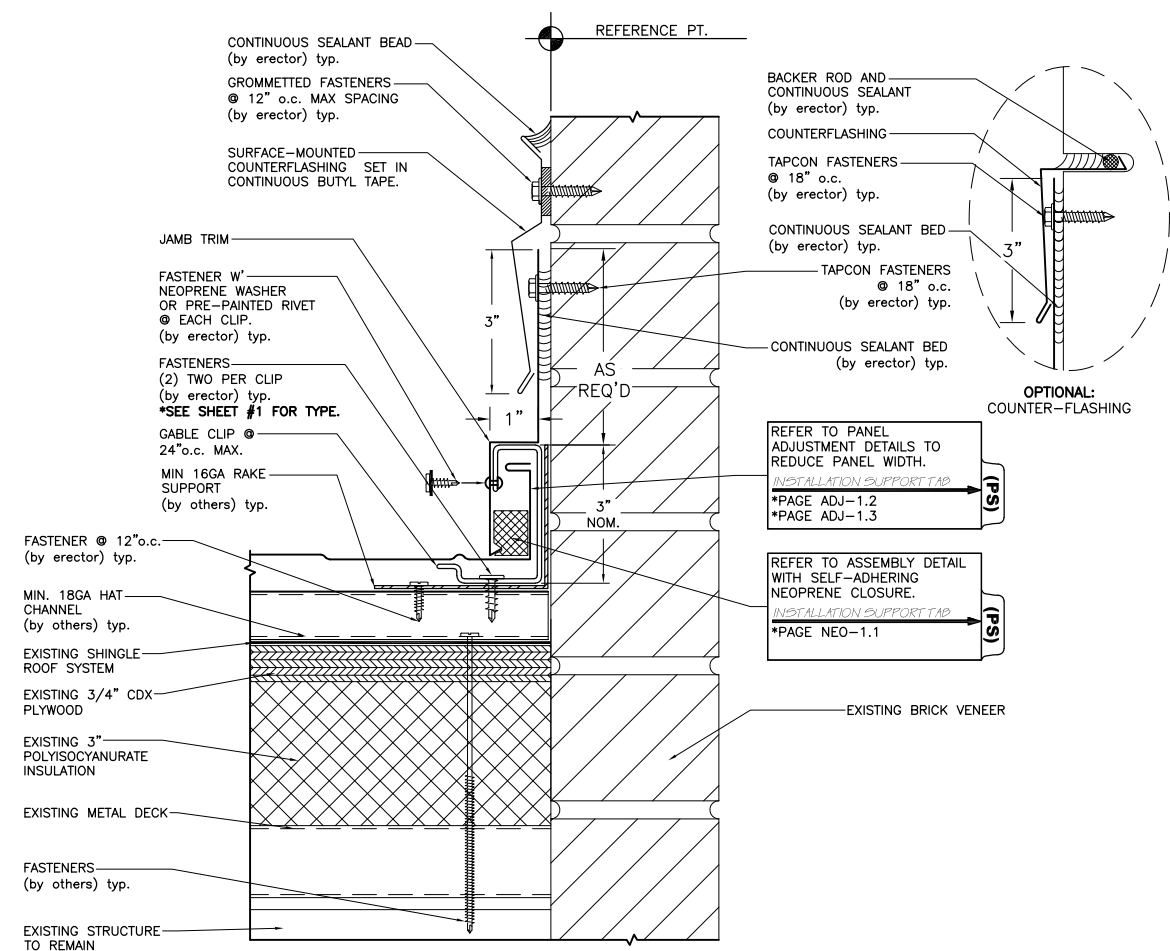


**C** FIXED VENTED RIDGE DETAIL  
7 ARCH. REF. : 2/A-6

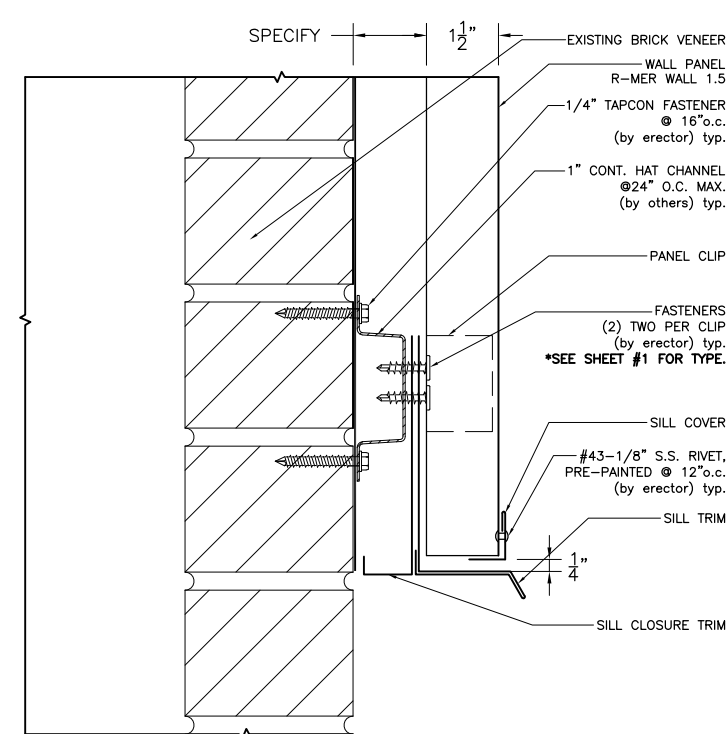


FOR REVIEW

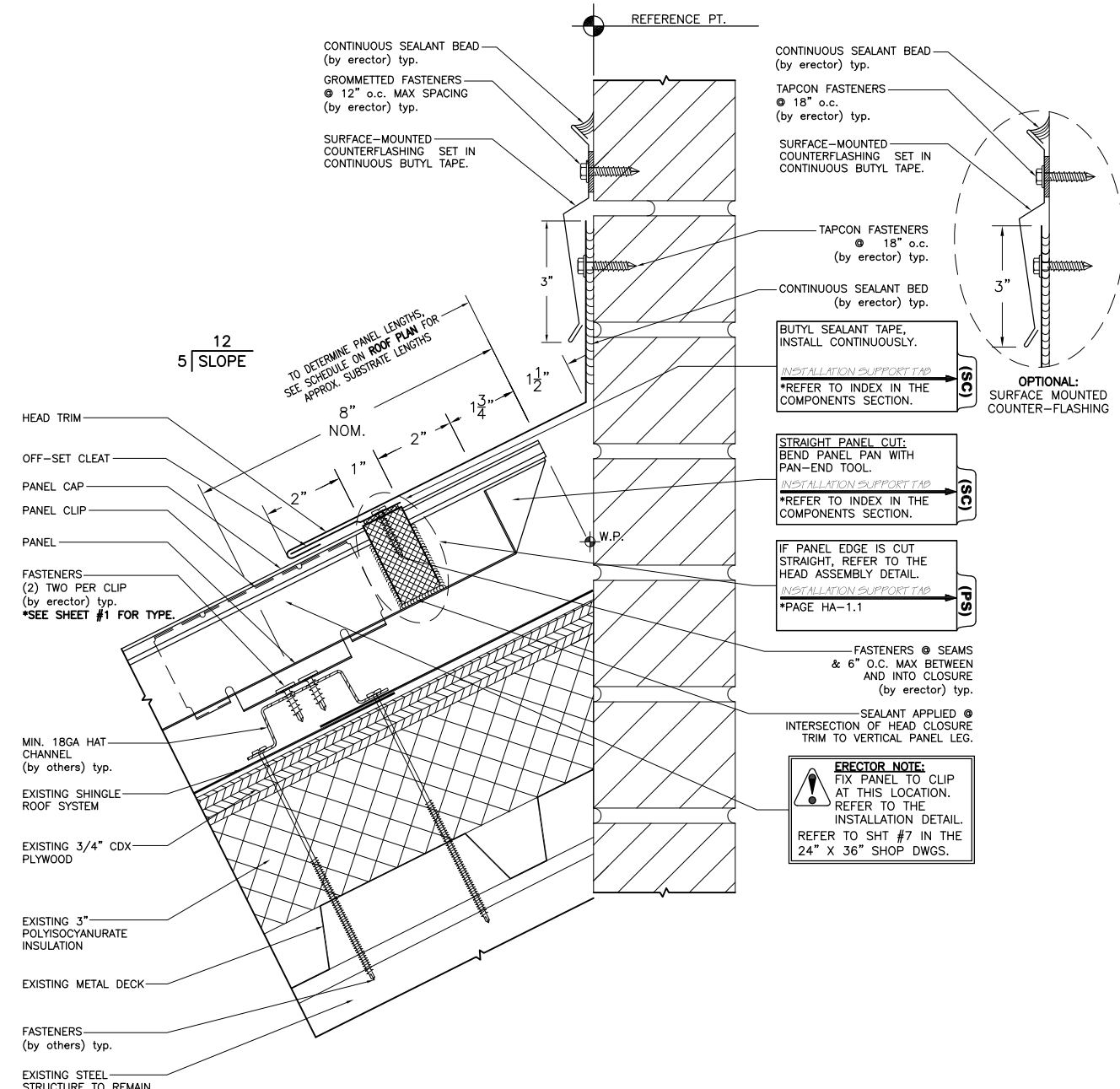




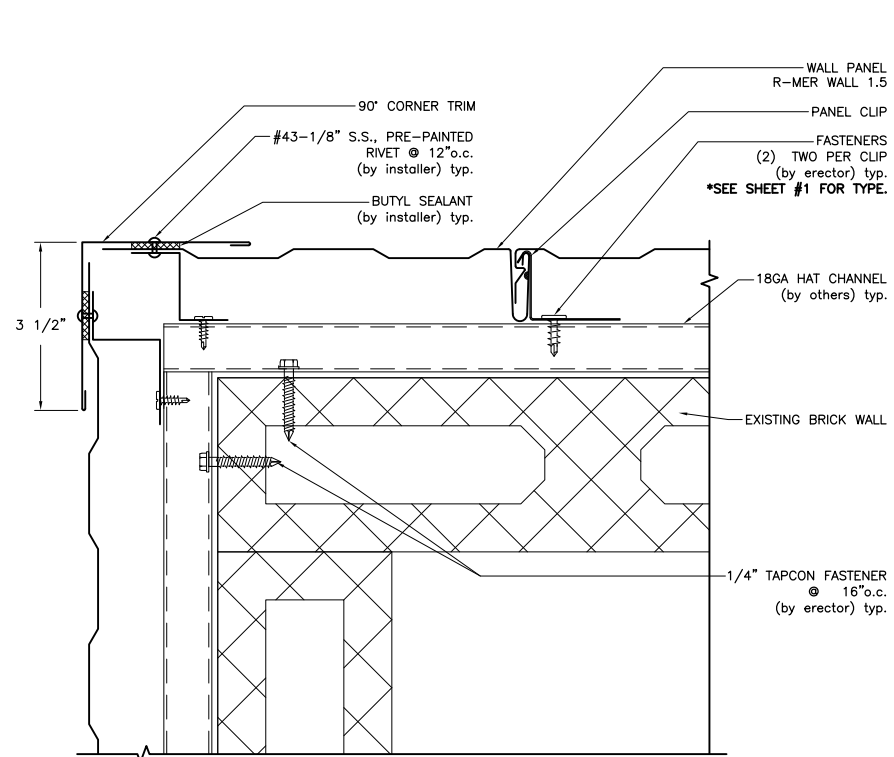
J  
8 SLOPING JAMB DETAIL  
ARCH. REF. : NA



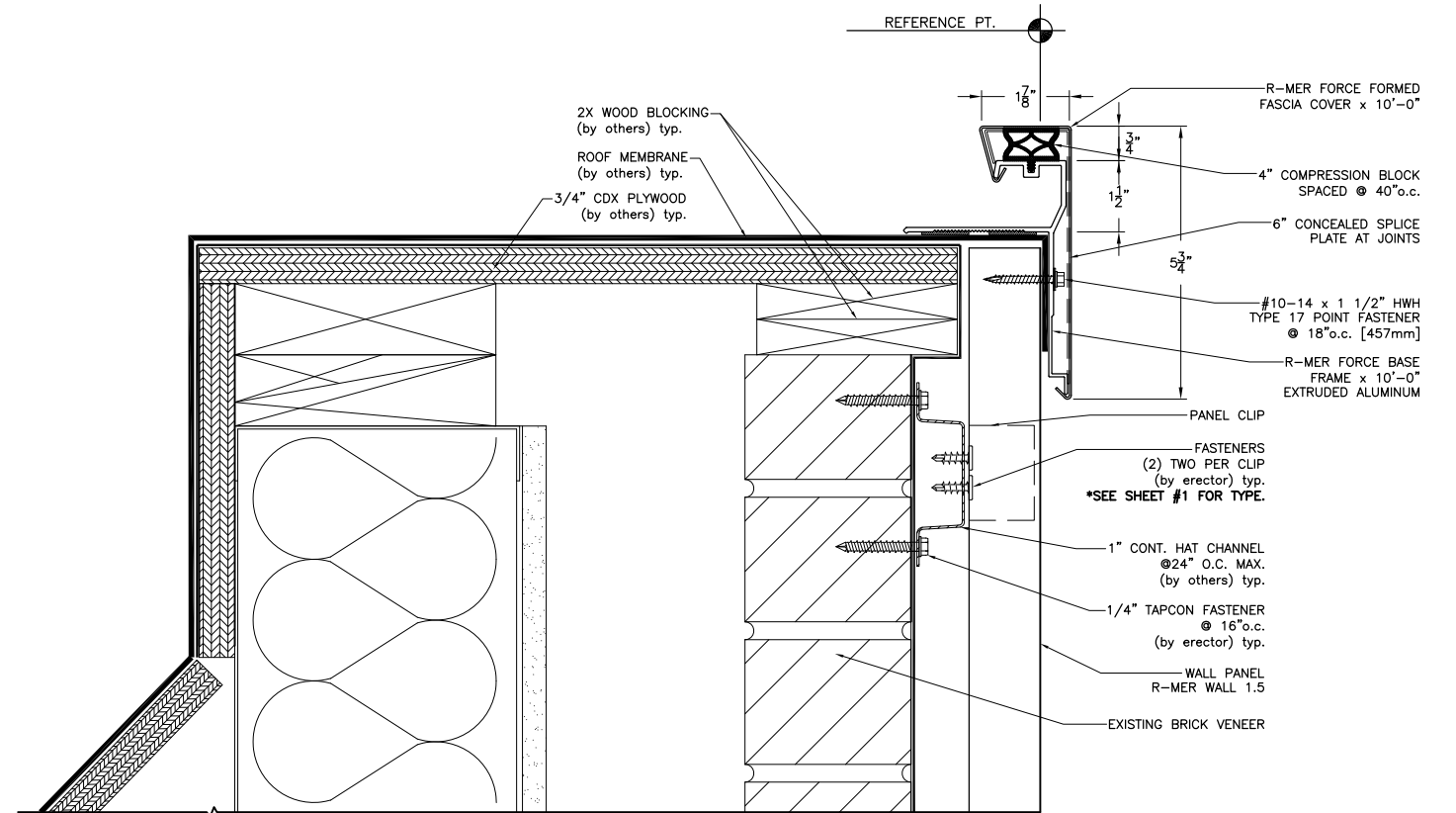
N  
8 WALL SILL DETAIL  
ARCH. REF. : NA



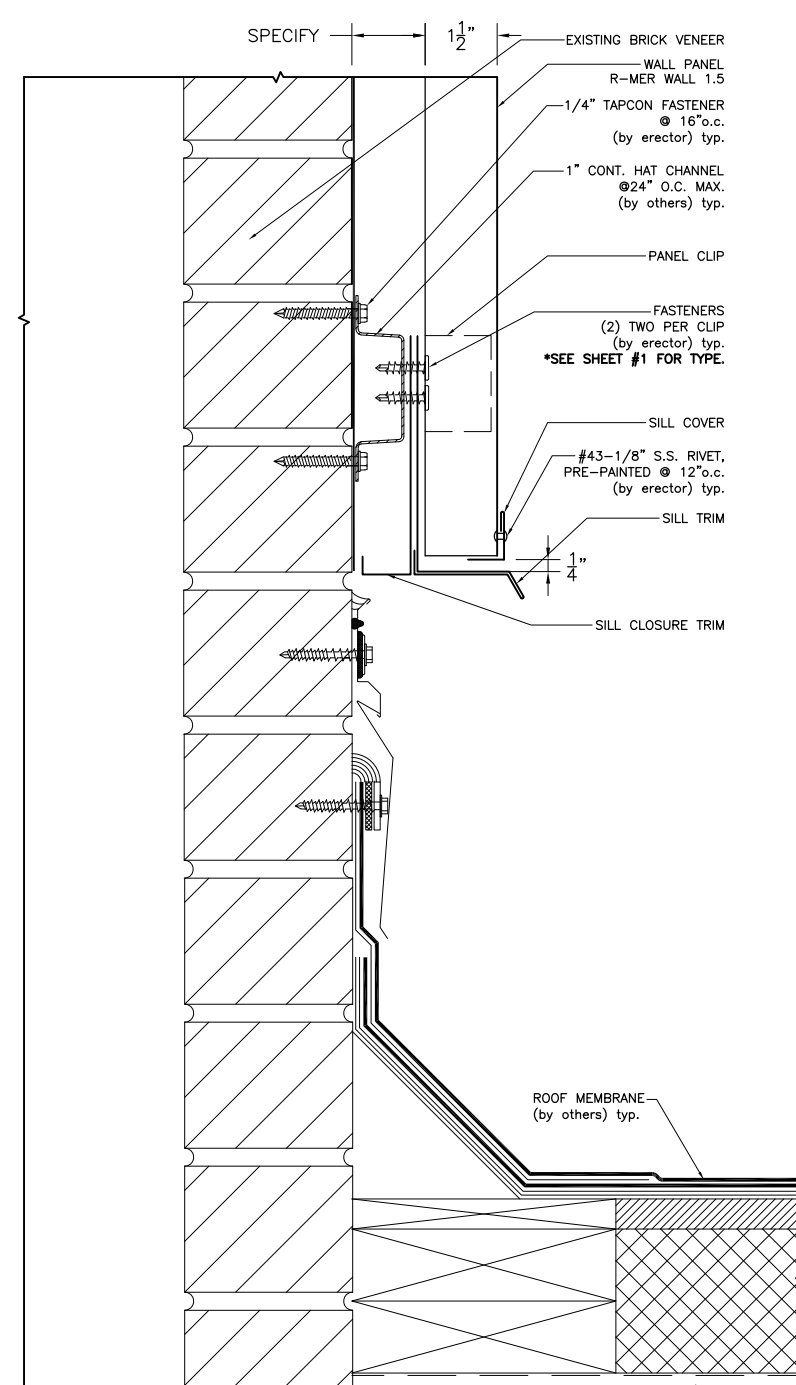
K  
8 FIXED HEAD DETAIL  
ARCH. REF. : NA



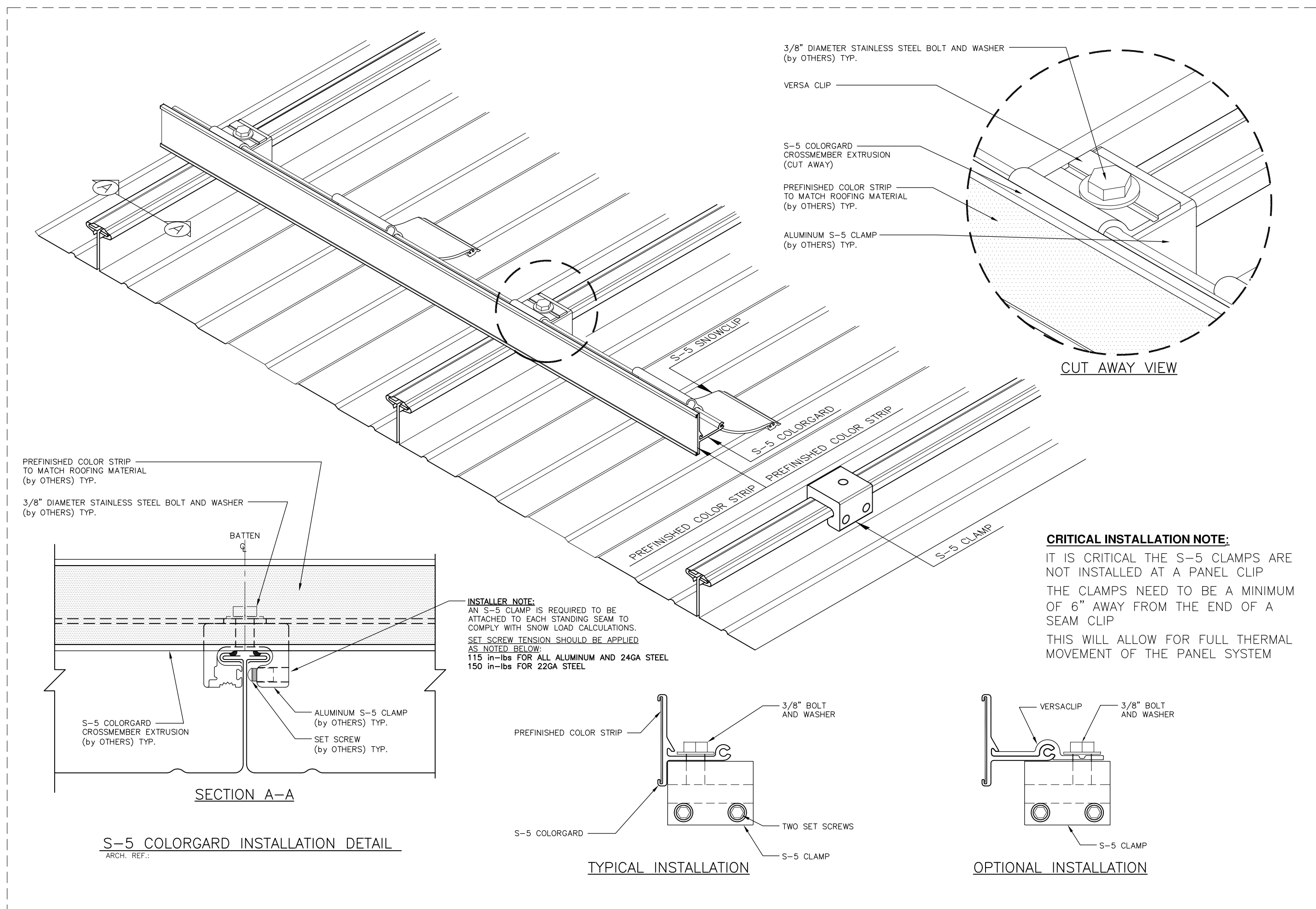
L  
8 90° O.S. CORNER DETAIL  
ARCH. REF. : NA



M  
8 WALL HEAD DETAIL  
ARCH. REF. : 2/A-5



P  
8 WALL SILL DETAIL  
ARCH. REF. : NA



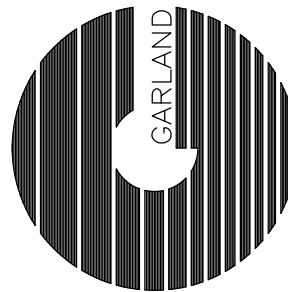
**CRITICAL INSTALLATION NOTE:**  
IT IS CRITICAL THE S-5 CLAMPS ARE NOT INSTALLED AT A PANEL CLIP. THE CLAMPS NEED TO BE A MINIMUM OF 6" AWAY FROM THE END OF A SEAM CLIP. THIS WILL ALLOW FOR FULL THERMAL MOVEMENT OF THE PANEL SYSTEM.

FOR REVIEW

ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

CUSTOMER: ANSONIA PUBLIC SCHOOL - FACILITIES  
AGENT: STEVE BOTELHO

ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC  
DATE: 03/26/25 DWG BY: MEC CHK BY: --



THE GARLAND COMPANY INC.  
3800 EAST 91ST STREET - CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-6336 / FAX (216) 641-0633

PART	GUTTER TRIM	S/O	TRIM INCH
QTY	77 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
A/7	± 724
G/7	± 42
TOTAL	± 766

PART	FASCIA TRIM	S/O	TRIM INCH
QTY	77 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
A/7	± 724
G/7	± 42
TOTAL	± 766

PART	EDGE STIFFNER	S/O	TRIM INCH
QTY	77 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
A/7	± 724
G/7	± 42
TOTAL	± 766

PART	HOLD DOWN CLEAT	S/O	TRIM INCH
QTY	77 PCS		X 120"
MTL	GALV. STEEL	22GA	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
A/7	± 724
G/7	± 42
TOTAL	± 766

PART	VALLEY TRIM	S/O	TRIM INCH
QTY	17 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
B/7	± 170
TOTAL	± 170

PART	HOLD DOWN CLEAT	S/O	TRIM INCH
QTY	34 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
B/7	± 340
TOTAL	± 340

PART	VALLEY CLOSURE	S/O	TRIM INCH
QTY	34 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
B/7	± 340
TOTAL	± 340

PART	VENTED RIDGE TRIM	S/O	TRIM INCH
QTY	02 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
C/7	± 17
TOTAL	± 17

PART	HIP TRIM	S/O	TRIM INCH
QTY	38 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
D/7	± 380
TOTAL	± 380

PART	OFF SET CLEAT	S/O	TRIM INCH
QTY	76 PCS		X 120"
MTL	GALV. STEEL	22GA	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
D/7	± 760
TOTAL	± 760

PART	SHED RIDGE TRIM	S/O	TRIM INCH
QTY	21 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
E/7	± 205
TOTAL	± 205

PART	VENTED HEAD TRIM	S/O	TRIM INCH
QTY	57 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 566
TOTAL	± 566

PART	SILL TRIM	S/O	TRIM INCH
QTY	102 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 566
H/7	± 137
N/8	± 235
P/8	± 82
TOTAL	± 1020

PART	SILL CLOSURE TRIM	S/O	TRIM INCH
QTY	89 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 566
H/7	± 137
N/8	± 235
P/8	± 82
TOTAL	± 883

PART	SILL COVER TRIM	S/O	TRIM INCH
QTY	102 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 566
H/7	± 137
N/8	± 235
P/8	± 82
TOTAL	± 1020

PART	EAVE TRIM	S/O	TRIM INCH
QTY	5 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
G/7	± 42
TOTAL	± 42

PART	JAMB TRIM	S/O	TRIM INCH
QTY	16 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
H/7	± 137
J/8	± 12
K/8	± 9
TOTAL	± 158

PART	COUNTER FLASHING	S/O	TRIM INCH
QTY	3 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
J/8	± 12
K/8	± 9
TOTAL	± 21

PART	HEAD TRIM	S/O	TRIM INCH
QTY	1 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
K/8	± 9
TOTAL	± 9

PART	90° CORNER TRIM	S/O	TRIM INCH
QTY	7 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
L/8	± 67
TOTAL	± 67

PART	REGLET FRAME	S/O	TRIM INCH
QTY	65 PCS		X 120"
MTL	ALUM	0.040"	

CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 648
TOTAL	± 648

PART	COUNTERFLASHING	S/O	TRIM INCH
QTY	65 PCS		X 120"
MTL	ALUM	0.040"	

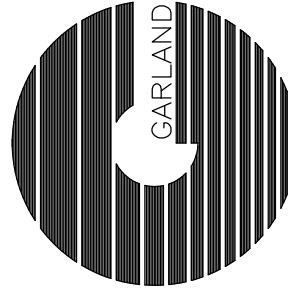
CUSTOMER APPROVAL	
DETAIL	LIN. FT
F/7	± 648
TOTAL	± 648

REV:	DATE: --/--/----
	DATE: --/--/----
	DATE: --/--/----
	DATE: --/--/----

ANSONIA HIGH SCHOOL  
20 PULASKI HWY., ANSONIA, CT 06401

CUSTOMER: ANSONIA PUBLIC SCHOOL – FACILITIES  
AGENT: STEVE BOTELHO

ARCHITECT: HIBBARD & ROSA ARCHITECTS, LLC  
DATE: 03/26/25 DWG BY: MEC CHK BY: --



THE GARLAND COMPANY INC.  
3800 EAST 91ST STREET – CLEVELAND, OHIO 44105-2197  
PHONE (800) 321-9336 / FAX (216) 641-0633

FOR REVIEW



## THE GARLAND COMPANY, INC.

HIGH-PERFORMANCE BUILDING ENVELOPE SOLUTIONS

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## Preliminary Pressure Calculations

Date 3/20/2025 JGUY 7.6  
Sales Rep Denise Reiss  
City Ansonia  
State CT

Project Name Ansonia High School  
Roof Sections Ansonia High School

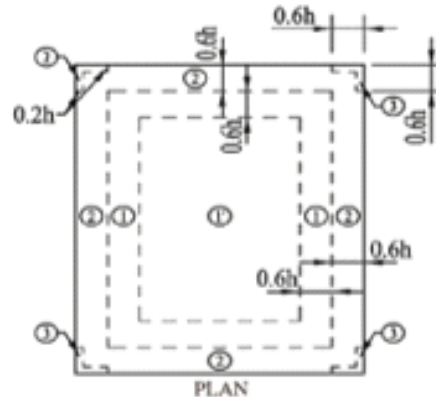
Design Code ASCE 7-22 ASD  
Exposure Category C  
Risk Category IV  
Wind Speed 131 mph  
Design Roof Height: 31 ft  
Minimum Building Width: 102 ft  
Roof Pitch (X, Y) 0.25 : 12  
Roof Angle 1.19 deg  
Parapet ≥ 36" Entire Roof No

Base Velocity Pressure 22.1 psf Gcpi = 0.55  
Roof Type Gable

Edge Zones  
Zone 1 width = 18'-8"  
Zone 2 width = 18'-8"  
Zone 3 width = 6'-3"  
Zone 3 length = 18'-8"  
=   
=   
Zone Image a = 18'-8"

Deck Type Steel

### Notes:

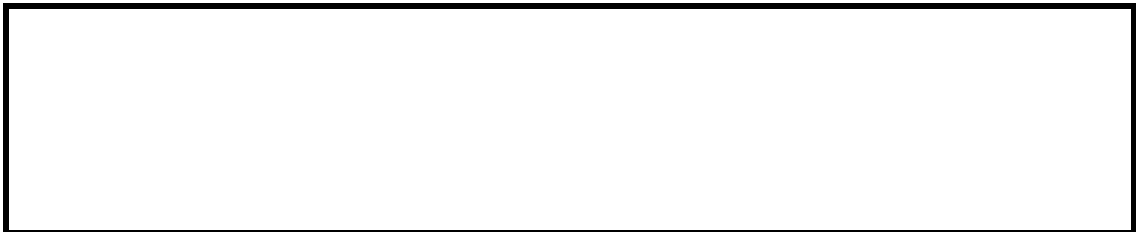


### Zone Pressures (psf)

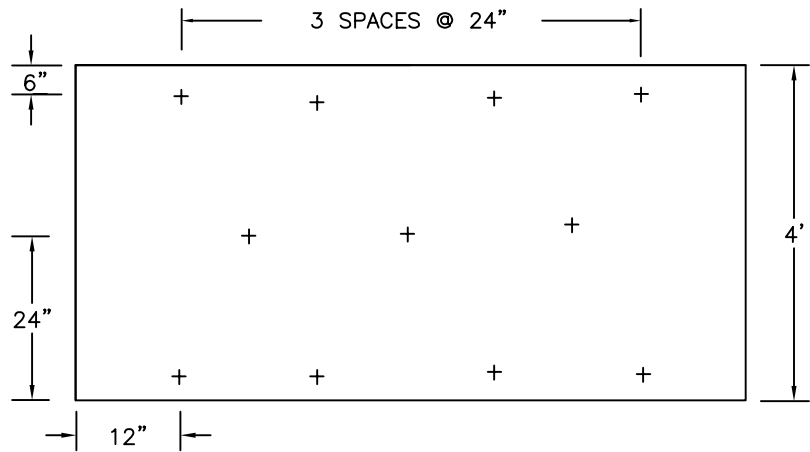
Zone 1'	Zone 1	Zone 2	Zone 3			Zone 4	Zone 5
32.1	49.8	63.0	82.9			34.1	40.0

Wall Perimeter Wall Corner

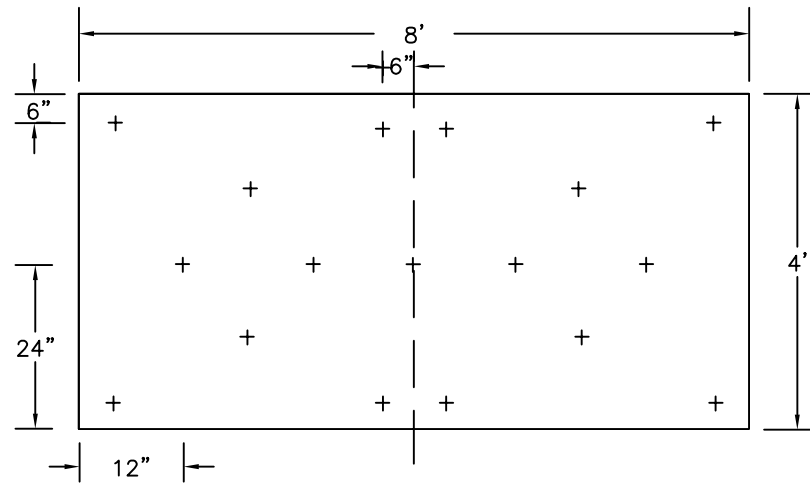
### Notes:



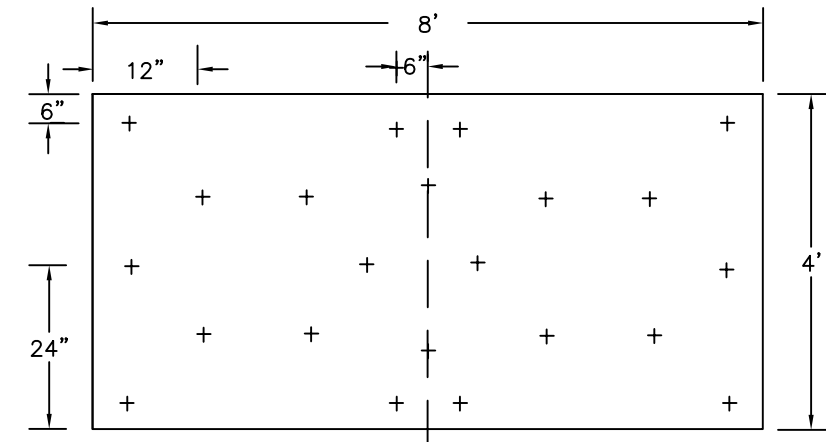
ZONE 1 INSULATION BOARD FASTENER PATTERN: 11 FASTENERS PER BOARD



ZONE 2 INSULATION BOARD FASTENER PATTERN: 17 FASTENERS PER BOARD



ZONE 3 INSULATION BOARD FASTENER PATTERN: 22 FASTENERS PER BOARD



*THE GARLAND COMPANY, INC.*

3800 EAST 91st STREET  
CLEVELAND, OHIO 44105-2197  
—PHONE 1-800-321-9336—  
FAX 1-216-641-0633

DETAIL:

4 X 8 BOARD PATTERN

SECTION:

INSULATION BOARD FASTENER PATTERN





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### Coping

Date	3/20/2025
Sales Rep	Denise Reiss
City	Ansonia
State	CT

Project Name Ansonia High School

Roof Sections Ansonia High School

## ANSI/SPRI ES-1 COPING PRELIMINARY DESIGN

### Project Data

Design Wind Speed:	131.00	mph
Roof Eave Height:	31.00	feet
	+	
Tallest Parapet:	1.00	feet
Metal Edge Eave Height:	32.00	feet
Exposure Category:	C	
Importance Classification:	IV	

### Design Wind Pressure ASCE 7-22 ASD

Basic Velocity Pressure:	22.26	psf
Horizontal Design Pressure:	40.29	psf
Vert. Design Pressure:	83.47	psf

### ES-1 Tested Coping System

Product Designation: ES-C050-16-60-16

System Description: R-Mer Edge Snap on Coping 16" x 0.050" Alum w/ 16 GA Anchor Chairs at 60" o.c.

Maximum Tested Front Load:	86	psf
Max. Vertical Front Dim.:	6	inches
Maximum Tested Top Load:	220	psf
Max. Vertical Width:	16.00	inches
Maximum Tested Rear Load:	129.1	psf
Max. Vertical Rear Dim.:	4.00	inches



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## Fascia

Date	3/20/2025
Sales Rep	Denise Reiss
City	Ansonia
State	CT

Project Name Ansonia High School

Roof Sections Ansonia High School

## ANSI/SPRI ES-1 FASCIA PRELIMINARY DESIGN

### Project Data

Design Wind Speed:	131	mph
Roof Eave Height:	31.00	feet
	+	
Tallest Parapet:	1.00	feet
Metal Edge Eave Height:	32.00	feet
Exposure Category:	C	
Importance Classification:	IV	

### Design Wind Pressure ASCE 7-22 ASD

Basic Velocity Pressure:	22.26	psf
Horizontal Design Pressure:	40.29	psf

### ES-1 Fascia Load

Vertical Face Dimension:	7.25	inches
Fascia Design Load:	67.28	psf

### ES-1 Tested Fascia System

Product Designation: MEA-RMF-Fascia725-A40

System Description: R-Mer Force Fascia 7.25" x 0.040" Aluminum w/ RMEBF-700 Base Frame

Maximum Tested Load:	470	psf
Max. Vertical Face Dim.:	7.25	inches



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## Preliminary Pressure Calculations

Date	3/10/2025	FTORRES 7.6
Sales Rep	Denise Reiss	
City	Ansonia	
State	CT	

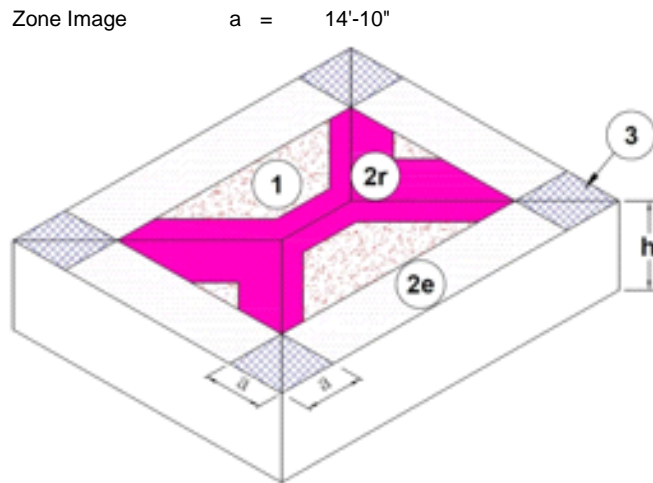
Project Name	Ansonia High School
Roof Sections	SS Roofs

Design Code	ASCE 7-16	ASD	Base Velocity Pressure	24.1	psf	Gcpi = 0.55
Exposure Category	C		Roof Type	Hip		
Risk Category	III		Edge Zones			
Wind Speed	128	mph	Zone 2 width	=	14'-10"	
Design Roof Height:	58	ft	Zone 3 width	=	14'-10"	
Minimum Building Width:	166	ft	Zone 3 length	=	14'-10"	
Roof Pitch (X, Y)	6	:		=		
Roof Angle	26.57	deg		=		
Parapet ≥ 36" Entire Roof	No			=		

Deck Type	Open Framing
Deck Thickness	18 gauge

Panel Type	R-MER Span
Width	18 in
Material	0.040 Aluminum

Fastener	Steel: Concealor #14-13 DP1
# per clip	2
Safety Factor	3
Clip Pry Coefficient	1.25
Ultimate Pullout	623 psf
Allowable Clip Load	332 psf
Panel Safety Factor	1.67



### Zone Pressures (psf)

Zone 1	Zone 2r	Zone 2e	Zone 3			Zone 4	Zone 5
47.1	61.6	61.6	61.6			39.8	47.1

### Clip Spacing ft / in

Zone 1	Zone 2r	Zone 2e	Zone 3			Zone 4	Zone 5
4'-8"	3'-7"	3'-7"	3'-7"			5'-0"	4'-8"

### Notes:

Clips to be fastened into min. 18 gauge hat channels at max. spacing above.



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## Preliminary Pressure

### Calculations

Date	3/10/2025	FTORRES 7.6
Sales Rep	Denise Reiss	
City	Ansonia	
State	CT	

Project Name Ansonia High School

Roof Sections Wall Sections

Design Code	ASCE 7-16	ASD	Base Velocity Pressure	18.2	psf	Gcpi = 0.18
Exposure Category	C		Roof Type	Hip		
Risk Category	III		Edge Zones			
Wind Speed	128	mph	Zone 1 width =	9'-0"		
Design Roof Height:	15	ft	Zone 2 width =	9'-0"		
Minimum Building Width:	166	ft	Zone 3 width =	3'-0"		
Roof Pitch (X, Y)	0.25	12	Zone 3 length =	9'-0"		
Roof Angle	1.19	deg	=			
Parapet ≥ 36" Entire Roof	No		=			

Deck Type Open Framing

Deck Thickness 18 gauge

Panel Type R-Mer Wall 1.5

Width 12 in

Material 0.040 Aluminum

Fastener Steel: Concealor #14-13 DP1

# per clip 2

Safety Factor 3

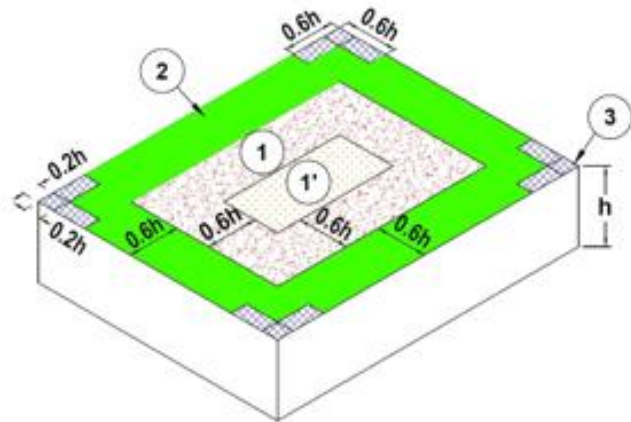
Clip Pry Coefficient 1.25

Ultimate Pullout 623 psf

Allowable Clip Load 332 psf

Panel Safety Factor 1.67

Zone Image



### Zone Pressures (psf)

Zone 1	Zone 2r	Zone 2e	Zone 3			Zone 4	Zone 5
34.1	45.0	45.0	61.4			23.2	28.7

### Clip Spacing ft / in

Zone 1	Zone 2r	Zone 2e	Zone 3			Zone 4	Zone 5
N/A	N/A	N/A	N/A			3'-0"	2'-0"

### Notes:

Clips to be fastened into min. 18 gauge hat channels at max. spacing above. Use 1/4" TAPCON fasteners @ 16" O/C to fasten hat channels into existing masonry substrate.