

2024 Waterford School District Kettering High School Roofing Replacement 2800 Kettering Drive Waterford Twp., Michigan 48329



Orientation	Scale
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Project
**2024 WATERFORD SCHOOL DISTRICT
KETTERING HIGH SCHOOL
ROOFING REPLACEMENT**

Project Location
**2800 KETTERING DR.,
WATERFORD TWP., MI 48329**

Sheet Name
COVER SHEET

Seal

Revisions

REV	ISSUED FOR	DATE	BY
	OWNER REVIEW	12-22-23	KMD
	BIDS	1-16-24	KMD

SME Project No.	094776.00
Project Manager:	KMD
Designer:	KMD
CADD:	GUS
Checked By:	KMD
Reviewed By:	LD
Sheet No.	G0.1
DRAWING NOTE: SCALE DEFINED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME © 2024	

GENERAL NOTES:

1. THE SUMMARY OF WORK CONTAINED IN THESE NOTES AND SHOWN ON THE PLANS MAY NOT INCLUDE ALL ITEMS AND ACTIVITIES NECESSARY TO COMPLETE THE WORK. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE DRAWINGS, TAKE MEASURES REASONABLY NECESSARY TO PROVIDE THE DESIRED WORK RESULT AND TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
2. ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY, AND PROTECTION OF PROPERTY AND PEDESTRIANS. PROVIDE AND MAINTAIN SAFETY DEVICES IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
3. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. DIMENSIONS SHOWN ON DRAWINGS ARE BASED UPON LIMITED FIELD VERIFICATION, AND HAVE NOT BEEN COMPLETELY FIELD VERIFIED. THE OWNER AND ENGINEER TAKE NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING DIMENSIONS SHOWN ON THE DRAWINGS.
4. NOTIFY THE OWNER AND ENGINEER OF ANTICIPATED CHANGES OR ADDITIONS TO THE WORK PRIOR TO THE START OF ACTIVITIES. THE GENERAL LIMITS OF THE WORK ARE NOTED ON THE PROJECT DRAWINGS WITH WORK BOUNDARIES TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
5. PROMPTLY REPORT UNANTICIPATED CONDITIONS UNCOVERED THAT ARE CONTRARY TO THE DRAWINGS OR WILL ADVERSELY IMPACT THE WORK TO THE OWNER AND ENGINEER FOR ADVISEMENT.
6. PROVIDE TEMPORARY PROTECTION, BARRICADES, TEMPORARY STRUCTURES, AND OTHER MEASURES AS NEEDED TO PROTECT THE PEDESTRIAN AND VEHICULAR TRAFFIC ADJACENT TO AND IN THE VICINITY OF THE WORK AREA.
7. PROVIDE TEMPORARY PROTECTION WATERPROOFING, TIE-INS, WATER BLOCKS, AND INTERIOR PROTECTION AS NEEDED DURING THE WORK TO PREVENT LEAKAGE INTO THE BUILDING AND WATER DAMAGE TO THE INTERIOR. PROVIDE TARPAULINS OR PLASTIC SHEETING FOR TEMPORARY PROTECTION INSIDE THE BUILDING AS NEEDED DURING CONSTRUCTION.
8. PROVIDE TEMPORARY PROTECTION OF EXISTING EQUIPMENT DURING THE WORK, SATISFYING OWNER'S REQUIREMENTS. RESTORE EXISTING EQUIPMENT, BUILDING COMPONENTS, SIDEWALK, AND GROUNDS DAMAGED DURING THIS WORK TO ORIGINAL CONDITION OR REPLACE WITH NEW MATERIALS AS DIRECTED BY THE OWNER. DAMAGED EQUIPMENT/COMPONENTS WILL BE REPLACED AT NO COST TO THE OWNER.
9. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR DELIVERY, STORAGE, MIXING, SURFACE PREPARATION, APPLICATION, AND CURING OF MATERIALS USED FOR RESTORATION WORK.
10. SECURE SITE STAGING AREA FOR STORAGE TO BE COORDINATED WITH OWNER PRIOR TO BEGINNING WORK.
11. STORAGE OF MATERIALS INSIDE THE BUILDING IS PROHIBITED. DO NOT STORE FLAMMABLE MATERIALS ON THE ROOFS OR IN THE STAGING AREA. REMOVE FLAMMABLE MATERIALS FROM THE SITE AND SECURELY STORE THEM AT THE END OF EACH WORK DAY.
12. TAKE DUE CARE AND CAUTION TO AVOID TRACKING DUST, DEBRIS, OR LOOSE MATERIALS TO AREAS OUTSIDE OF THE CONSTRUCTION AREA. REMOVE MATERIALS TRACKED TO AREAS OUTSIDE OF THE CONSTRUCTION AREA AS SOON AS POSSIBLE, AT NO ADDITIONAL COST TO THE OWNER. CONDUCT AN INSPECTION AT THE END OF EACH WORK DAY OF THE PROJECT AREA AND TAKE STEPS TO ENSURE THAT THE ENTIRE WORK AREA IS CLEAN. THIS REQUIREMENT INCLUDES DEBRIS FROM THE CONTRACTOR'S EMPLOYEES EATING LUNCH OR ON BREAKS.
13. REMOVE WASTE MATERIALS AND DEBRIS RESULTING FROM THE WORK FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER.
14. REMOVE STAINING/CONTAMINANTS FROM BUILDING SURFACES AND THE GROUNDS, INCLUDING SPILLED OR SMEARED SEALANTS, BITUMINOUS MATERIALS, GASOLINE AND FUEL SPILLS, AND HYDRAULIC LEAKAGE FROM THE EQUIPMENT USED ONSITE.
15. PROVIDE PROTECTION OF SIDEWALKS OR OTHER PAVEMENTS AGAINST BREAKAGE DUE TO MANLIFT USE OR OTHER EQUIPMENT. RESTORE DAMAGED SIDEWALKS AND PAVEMENTS TO PRE-PROJECT CONDITIONS.
16. MAINTAIN UP-TO-DATE SET OF PROJECT DOCUMENTS AT THE JOB-SITE. KEEP ACCURATE AND LEGIBLE RECORDS OF CHANGES TO THE WORK THAT OCCUR DURING CONSTRUCTION AND INFORMATION ON 'AS-BUILT' EXISTING OR CONSTRUCTED CONDITIONS. KEEP RECORDS OF CHANGES AND AS-BUILT CONDITIONS DOCUMENTED ON A SET OF DRAWINGS TO BE PROVIDED TO THE ENGINEER AT CONSTRUCTION COMPLETION.
17. UPON COMPLETION OF THE WORK, CLEAR THE ENTIRE SITE OF EQUIPMENT, UNUSED MATERIALS, AND RUBBISH. RESTORE DISTURBED AREAS TO THE SATISFACTION OF THE OWNER.

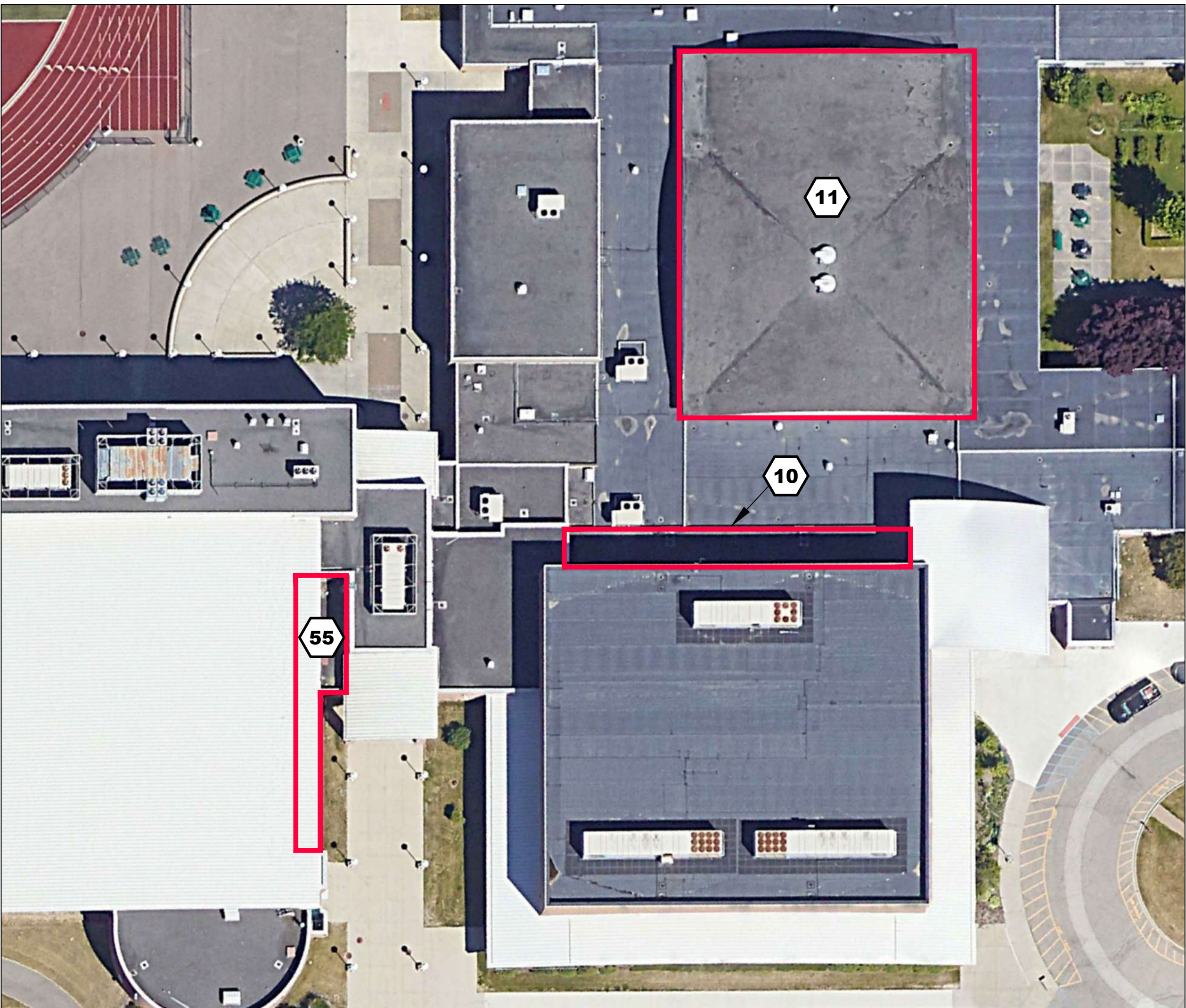
SCOPE OF WORK:

1. REMOVE AND REPLACE ROOFING ASSEMBLY ON EACH ROOF WITH NEW FULLY ADHERED, BLACK, 60-MIL EPDM MEMBRANE, INSULATION, PERIMETER FLASHINGS, EDGE METAL FLASHINGS, 20-YEAR ROOFING MANUFACTURER'S WARRANTY, AND 2-YEAR CONTRACTOR'S WARRANTY. EDGE METAL TO BE INCLUDED IN ROOFING MANUFACTURER'S 20-YEAR WARRANTY.
2. REPLACE EACH DRAIN AS INDICATED ON PROJECT DRAWINGS AND SPECIFICATIONS.
3. REPLACE DETERIORATED WOOD BLOCKING TO MATCH EXISTING TYPE AND THICKNESS.
4. ADD WOOD BLOCKING ON CURBS AND PERIMETERS TO ACCOMMODATE NEW INSULATION HEIGHTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE NUMBER OF NAILERS REQUIRED TO PROVIDE A MINIMUM OF 8-INCHES FLASHING HEIGHT.
5. PROVIDE LICENSED ELECTRICAL, PLUMBING, OR HVAC SUBCONTRACTORS TO DISCONNECT AND RECONNECT MECHANICAL UNITS, ADJUST OR RELOCATE UTILITIES, RAISE CURBS, ABANDON DESIGNATED CURBS, RAISE DUCTWORK, INSTALL NEW DRAINS OR SCUPPER COMPONENTS, AND ABANDON DESIGNATED DRAINS AND PIPING. IN-PLACE SYSTEMS SHALL ACCOMMODATE NEW INSULATION THICKNESSES AND MEET WARRANTY REQUIREMENTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER.
 - a. ALL MECHANICAL UNITS AND UTILITIES MUST BE OPERATIONAL AND DRAINS FREE-FLOWING AT THE COMPLETION OF THE PROJECT. THIS INCLUDES CONDUITS DAMAGED BY SCREWS OR OTHER ITEMS THAT MAY DAMAGE UTILITIES.
 - b. WORK TO BE COMPLETED IN ACCORDANCE WITH LOCAL CODES AND JURISDICTION(S) OF AUTHORITY. DO NOT SHUT OFF OR INHIBIT UTILITY SERVICES WITHOUT NOTIFYING OWNER'S REPRESENTATIVE IN ADVANCE.

SYMBOL AND ABBREVIATION INDEX

A4.1 PARTIAL SECTION INDICATOR TYPICAL

ACC	ACCESSIBLE	EQ	EQUAL	OPT	OPTIONAL
ADDL	ADDITIONAL	EQL SP	EQUALLY SPACED	PROJ	PROJECT
ADH	ADHESIVE	EQUIP	EQUIPMENT	QTY	QUANTITY
ADJ	ADJACENT	EXT	EXTERNAL/EXTERIOR	SIM	SIMILAR
ADMIN	ADMINISTRATION	FIG	FIGURE	STD	STANDARD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FT	FEET	SYMM	SYMMETRICAL
ALT	ALTERNATE	GA	GAUGE	SYS	SYSTEM
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GL	GROUND LEVEL	TYP	TYPICAL
APPX	APPENDIX	GR LN	GRADE LINE	UNO	UNLESS NOTED OTHERWISE
REQD	REQUIRED	GRAD	GRADIENT	VIF	VERIFY IN FIELD
ASYM	ASYMMETRICAL	IBC	INTERNATIONAL BUILDING CODE		
BLDG	BUILDING	INT	INTERIOR		
BLW	BELOW	KIP	THOUSAND POUNDS		
BOT	BOTTOM	KLF	KIP PER LINEAR FOOT		
BTWN	BETWEEN	LBF	POUND FORCE		
¢	CENTER LINE	LN	LINEAR		
CG	CENTER OF GRAVITY	LN	LINE		
CTRL	CONTROL	LVR	LAYER		
DEMO	DEMOLITION	MAT	MATERIAL		
DIA	DIAMETER	MBR	MEMBER		
DIM	DIMENSION	MFR	MANUFACTURER		
DWG	DRAWING	NBC	NATIONAL BUILDING CODE		
EL	ELEVATION	OC	ON CENTER		
ELEM	ELEMENT	OPNG	OPENING		
ENCL	ENCLOSURE	OPP	OPPOSITE		



OVERALL SITE AERIAL IMAGE
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

ENGINEER

SME
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170

CONTACT: KYLE DAMEROW, PE
PHONE: 734-454-9900
EMAIL: KYLE.DAMEROW@SME-USA.COM



OWNER / CLIENT

WATERFORD SCHOOL DISTRICT
501 N. CASS LAKE ROAD
WATERFORD, MICHIGAN 48328

OWNER REPRESENTATIVE: MR. SIDNEY TIPPETT
PHONE: 248-674-3193
EMAIL: TIPPES01@WSDMI.ORG



APPLICABLE CODES

2015 MICHIGAN REHAB CODE

LIST OF DRAWINGS

SHEET NO.	SHEET TITLE
G0.1	COVER SHEET
G1.1	ROOF AREA 10 WIND DESIGN LOADING / ZONE PLAN
G1.2	ROOF AREA 11 WIND DESIGN LOADING / ZONE PLAN
G1.3	ROOF AREA 55 WIND DESIGN LOADING / ZONE PLAN
A1.1	ROOF PLAN AREA 10
A1.2	ROOF PLAN AREA 11
A1.3	ROOF PLAN AREA 55
A4.1	FLASHING DETAILS
A4.2	FLASHING DETAILS

Orientation	Scale

Project

**2024 WATERFORD SCHOOL DISTRICT
KETTERING HIGH SCHOOL
ROOFING REPLACEMENT**

Project Location

**2800 KETTERING DR.,
WATERFORD TWP., MI 48329**

Sheet Name

**ROOF AREA 10
WIND DESIGN
LOADING / ZONE PLAN**

Seal

Revisions			
REV	ISSUED FOR	DATE	BY
	OWNER REVIEW	12-22-23	KMD
	BIDS	1-16-24	KMD

SME Project No.

094776.00

Project Manager:

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CADD:

GUS

Checked By:

KMD

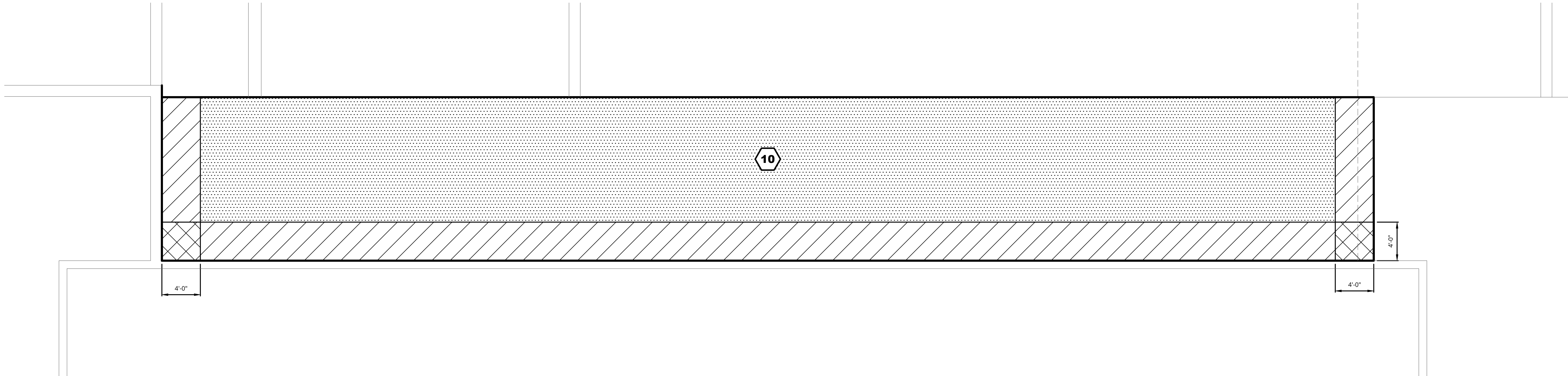
Reviewed By:

LD

Sheet No.

G1.1

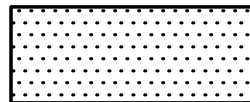
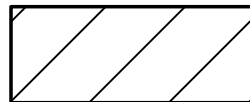
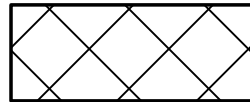
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ROOF AREA 10 WIND DESIGN LOADING / ZONE PLAN
SCALE: 3/16" = 1'-0"

LEGEND

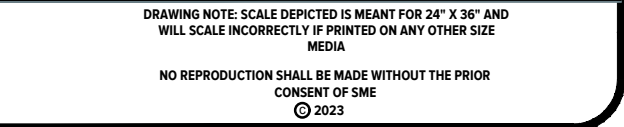
-  ROOF AREA
-  ZONE 1
-  ZONE 2
-  ZONE 3

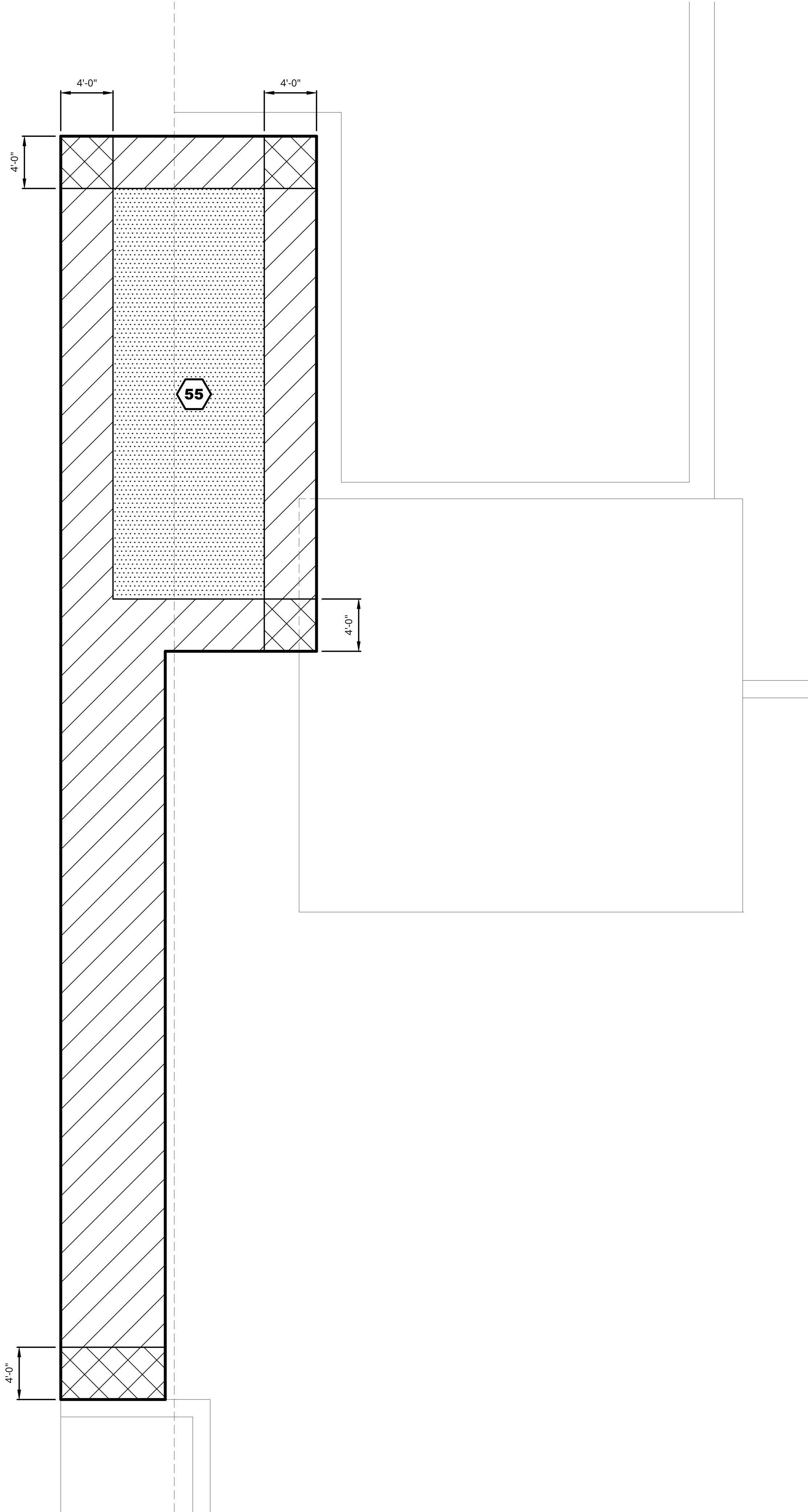
WIND DESIGN CRITERIA (MBC 2015)
KETTERING HIGH SCHOOL
ULTIMATE DESIGN (FACTORED) BASIC WIND SPEED (3 SECOND GUST) = 120 MPH
NOMINAL WIND SPEED = 93 MPH
EXPOSURE CATEGORY = C
RISK CLASSIFICATION = III
INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING) = +/- 0.18

- NOTES:
- WORK WIND DESIGN LOADING ZONE PLAN WITH TABLE 1, THIS SHEET.
 - WIND UPLIFT PRESSURE GIVEN IN TABLE 1 TO BE USED FOR DESIGN OF ROOFING FASTENING SYSTEM(S).
 - DESIGN PRESSURES BASED ON EFFECTIVE WIND AREA OF 10FT² OR LESS.

TABLE 1	
SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING	
ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	- 24
ZONE 2 AND TOP/SIDE OF PARAPET	- 40
ZONE 3 AND TOP/SIDE OF PARAPET	- 59

NOTE:
" - " NEGATIVE SIGN INDICATES PRESSURE ACTING AWAY FROM THE ROOF SURFACE, I.E. SUCTION





ROOF AREA 55
WIND DESIGN LOADING / ZONE PLAN

SCALE: 3/16" = 1'-0"

LEGEND

- # ROOF AREA
- ZONE 1
- ZONE 2
- ZONE 3

WIND DESIGN CRITERIA (MBC 2015)

KETTERING HIGH SCHOOL
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**2024 WATERFORD SCHOOL DISTRICT
KETTERING HIGH SCHOOL
ROOFING REPLACEMENT**

Project Location

**2800 KETTERING DR.,
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Sheet Name

**ROOF AREA 55
WIND DESIGN
LOADING / ZONE PLAN**

Seal

Revisions

REV	ISSUED FOR	DATE	BY
	OWNER REVIEW	12-22-23	KMD
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LD

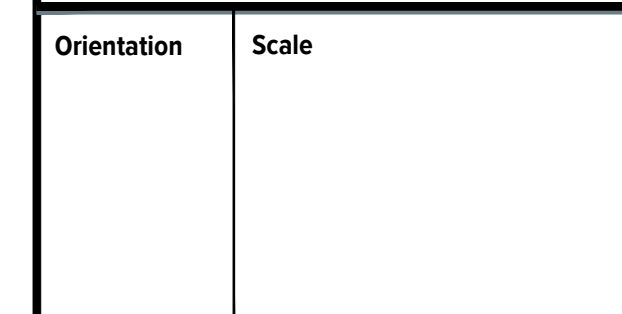
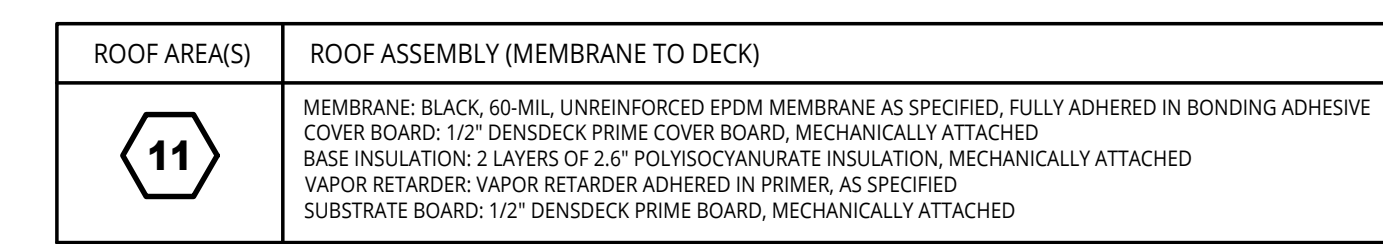
Sheet No.

G1.3

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Jan 10, 2024 - 11:23am - by: gus.kendall@waterfordschools.org
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PLOT DATE:



Project Location

**2800 KETTERING DR.,
WATERFORD TWP., MI 4832**

Sheet Name
ROOF PLAN
AREA 11

Seal

[illegible]

SME Project No. 094776.00

Project Manager: **KMD**

Designer: **KMD**

CADD: **GUS**

Checked By: **KMD**

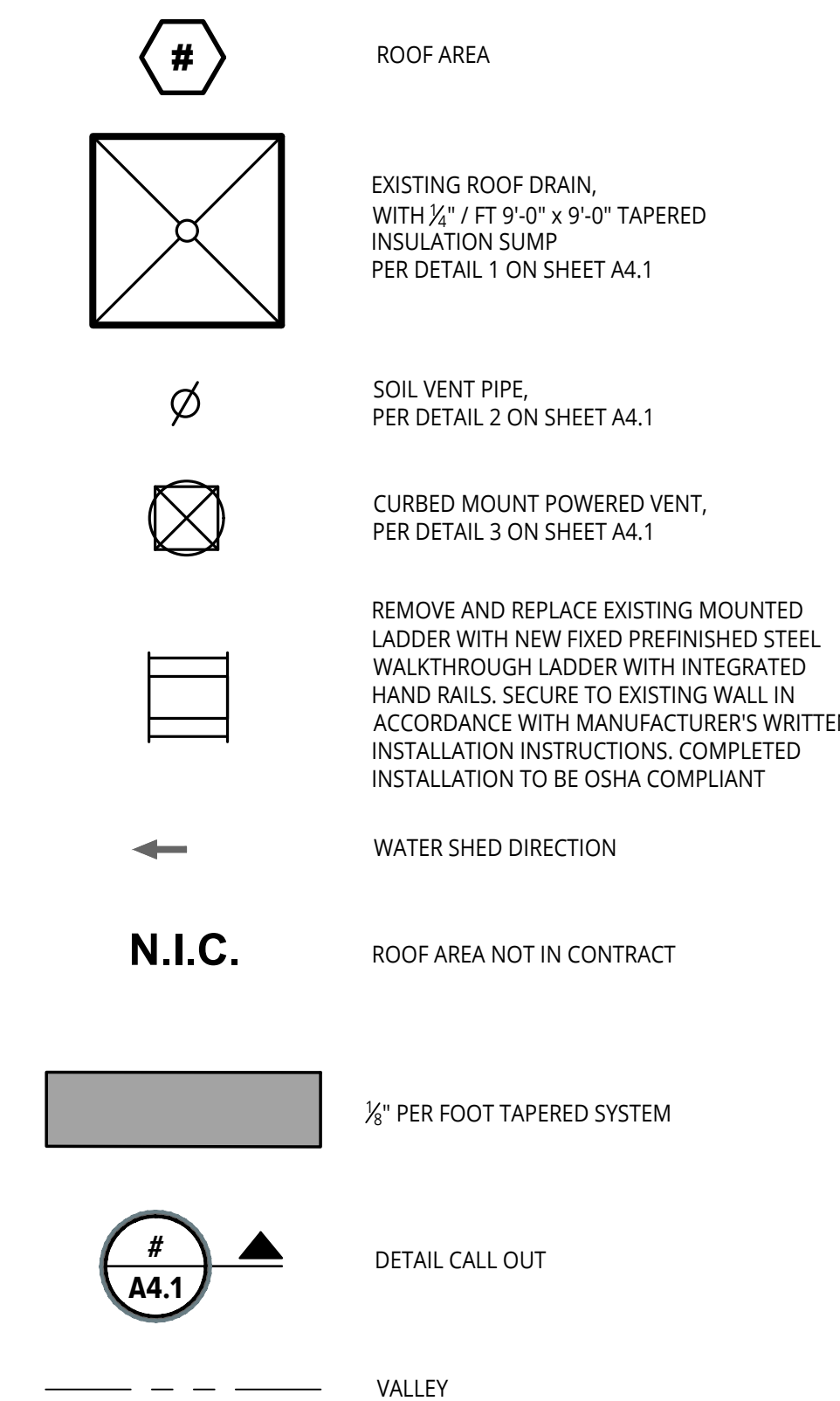
Reviewed By: LD

Sheet No. **A1.2**

DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" A
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MEDIA

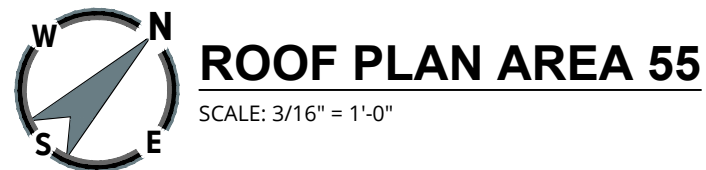
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NOTES:

1. FIELD VERIFY ALL DIMENSIONS

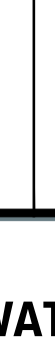


NOTES:

1. FIELD VERIFY ALL DIMENSIONS.



SME
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Orientation

Scale

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**2024 WATERFORD SCHOOL DISTRICT
KETTERING HIGH SCHOOL
ROOFING REPLACEMENT**

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**2800 KETTERING DR.,
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**ROOF PLAN
AREA 55**

Seal

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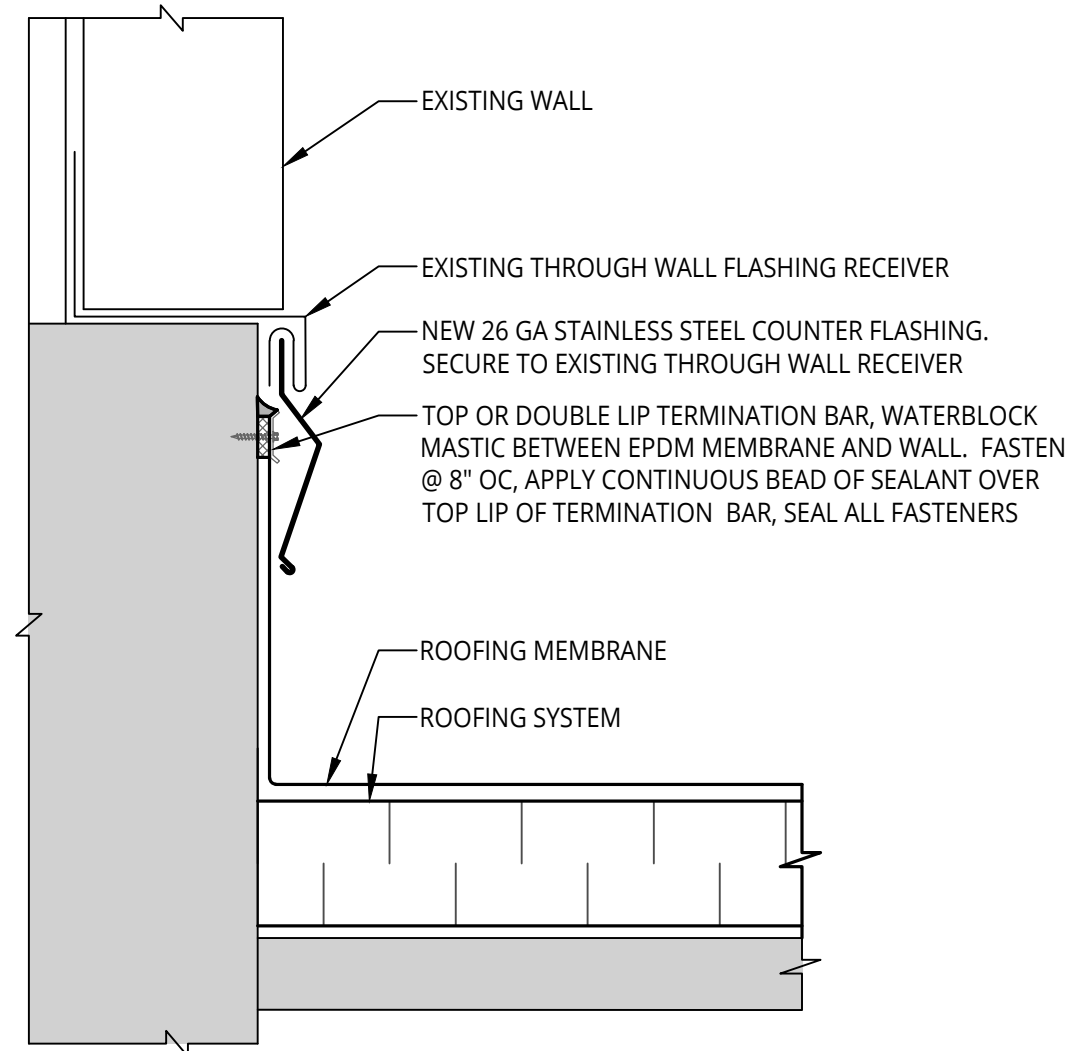
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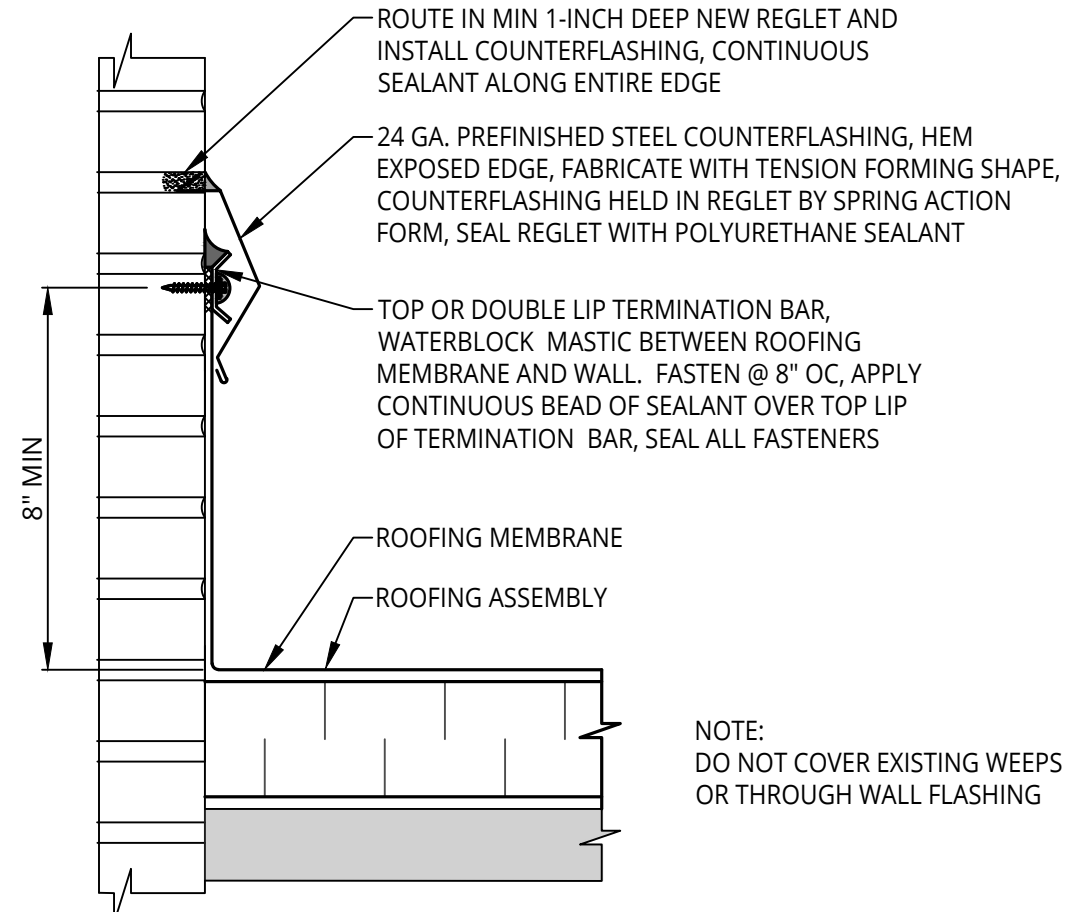
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DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 36" X 36" AND
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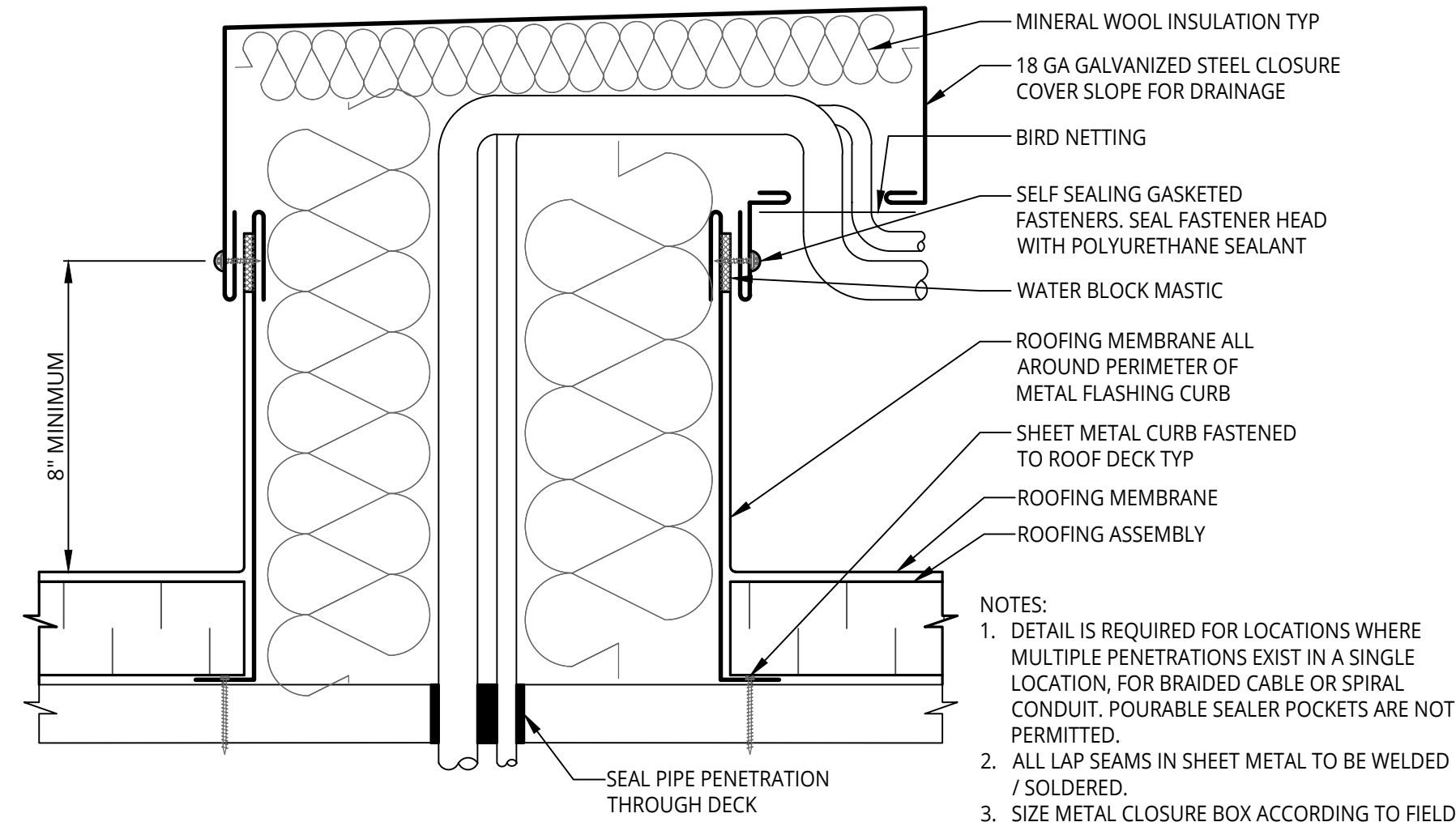
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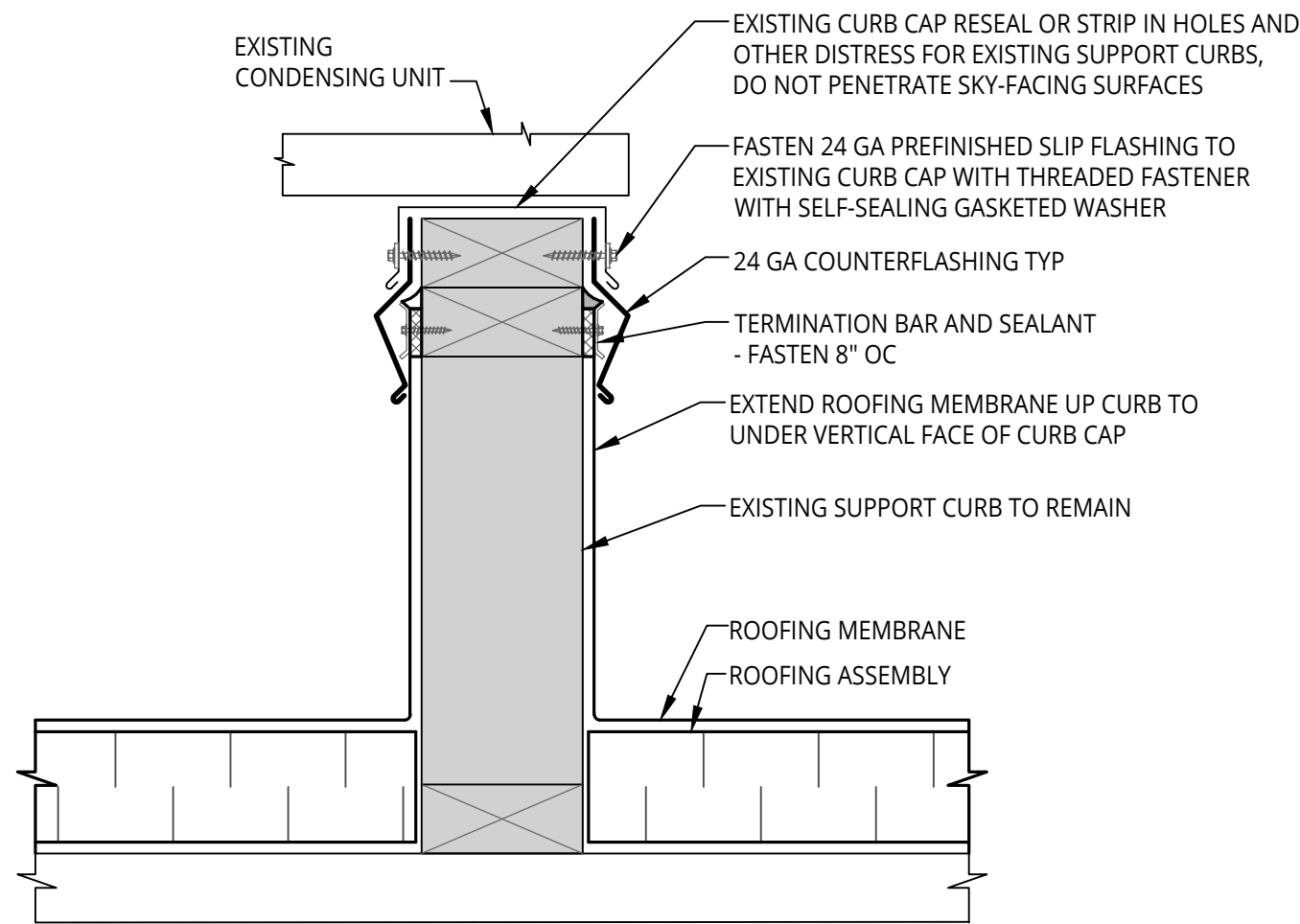
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A1.1 COUNTERFLASHING AT EXISTING RECEIVER
NOT TO SCALE



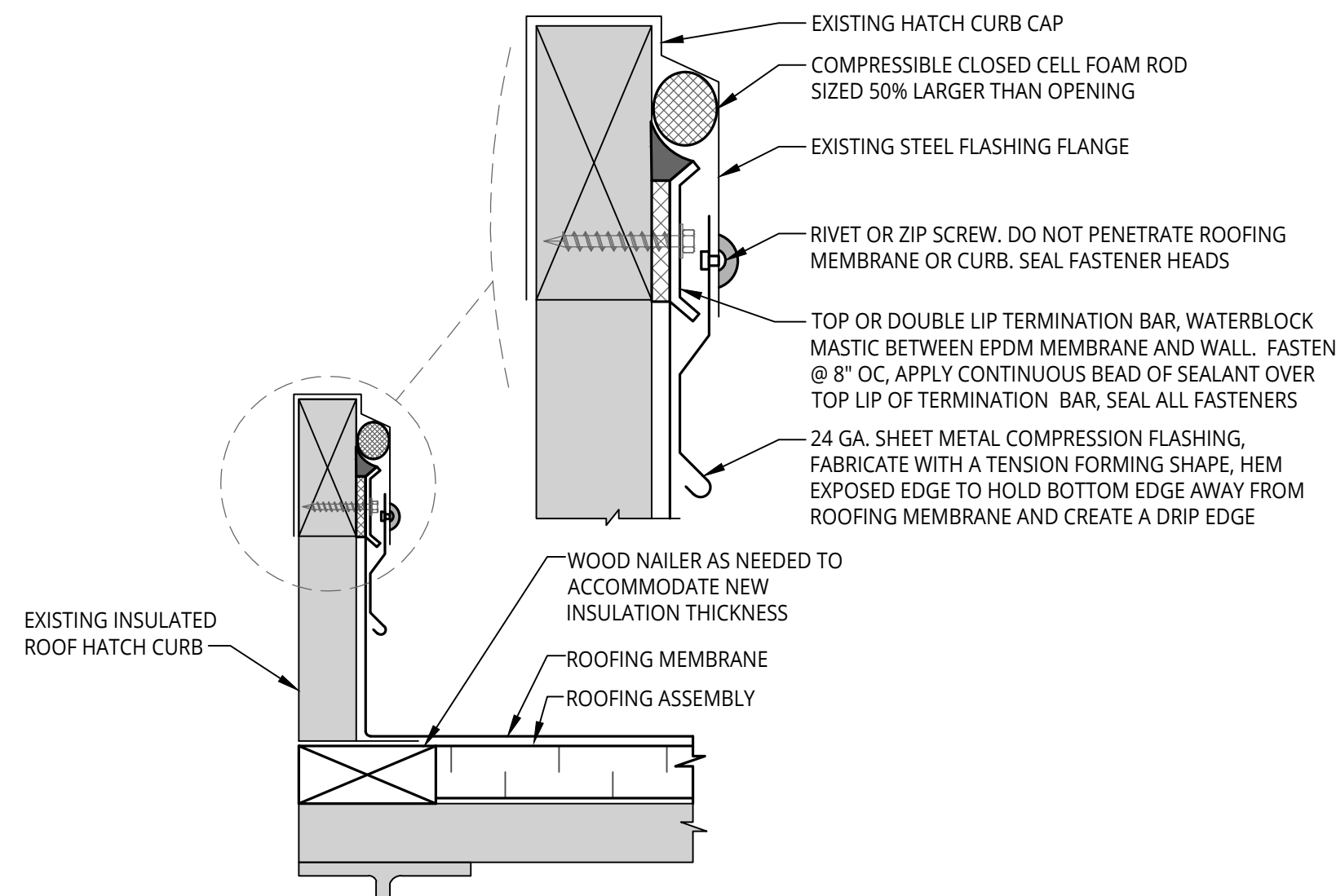
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A1.1 BASE FLASHING - REGLET COUNTERFLASHING
NOT TO SCALE



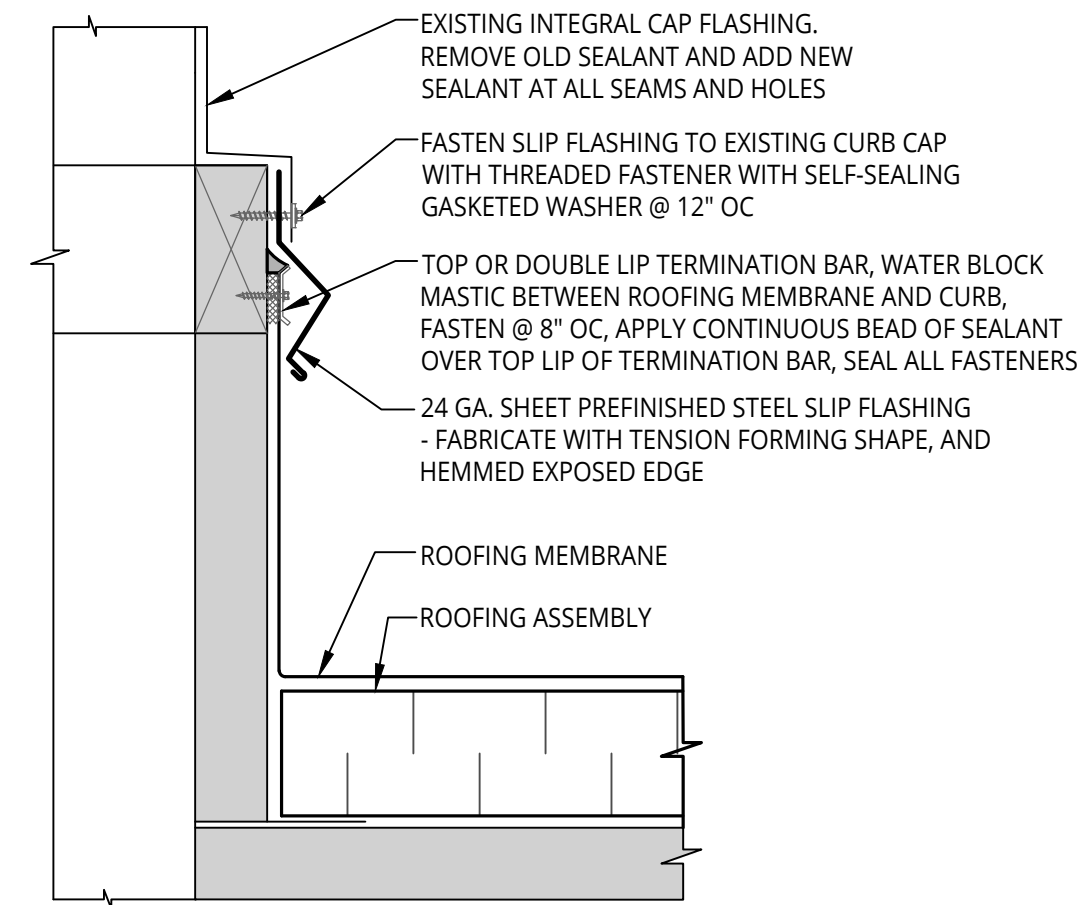
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A1.3 PENETRATION FLASHING BOX WITH HOOD
NOT TO SCALE



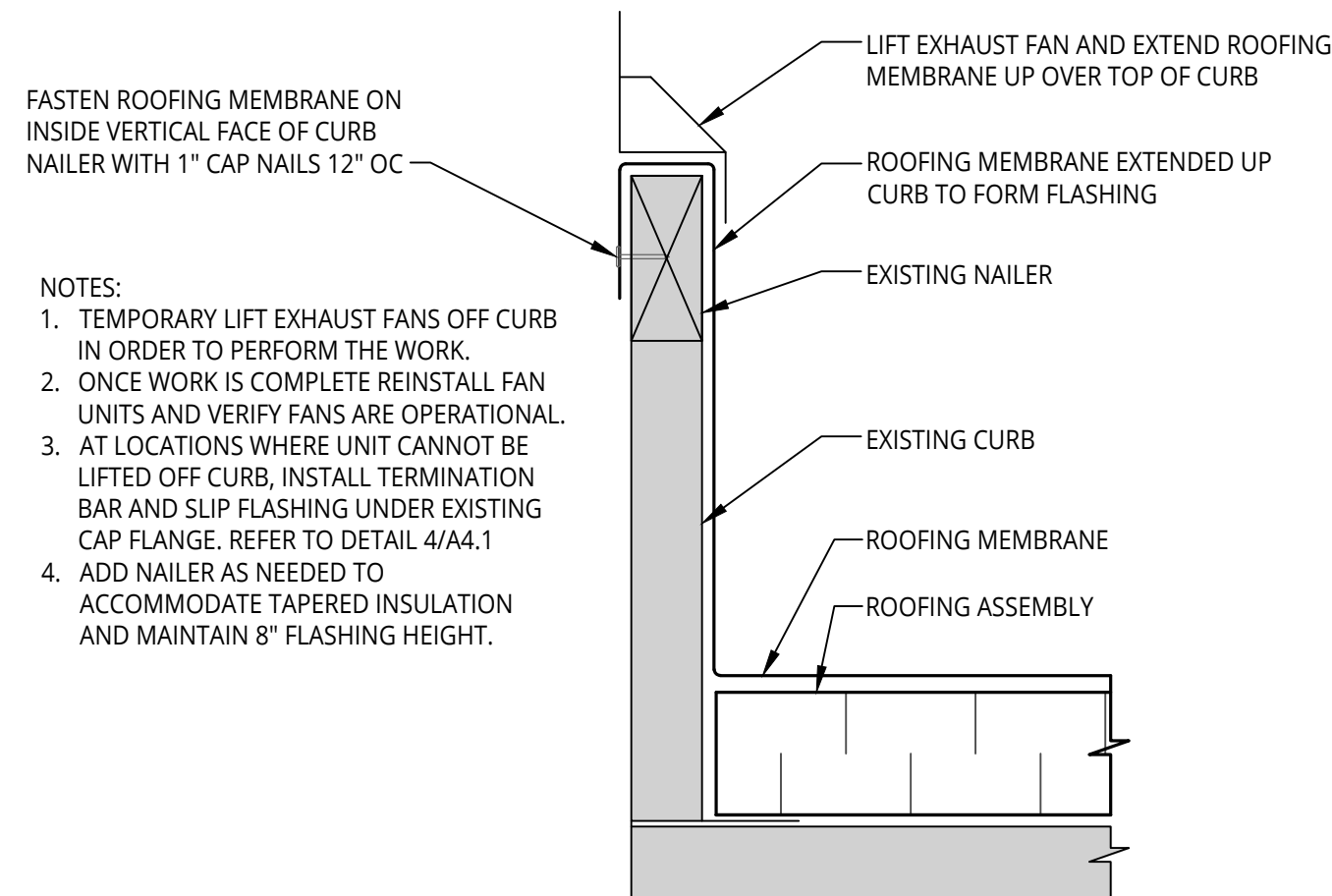
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A1.1 SUPPORT CURB FLASHING
NOT TO SCALE



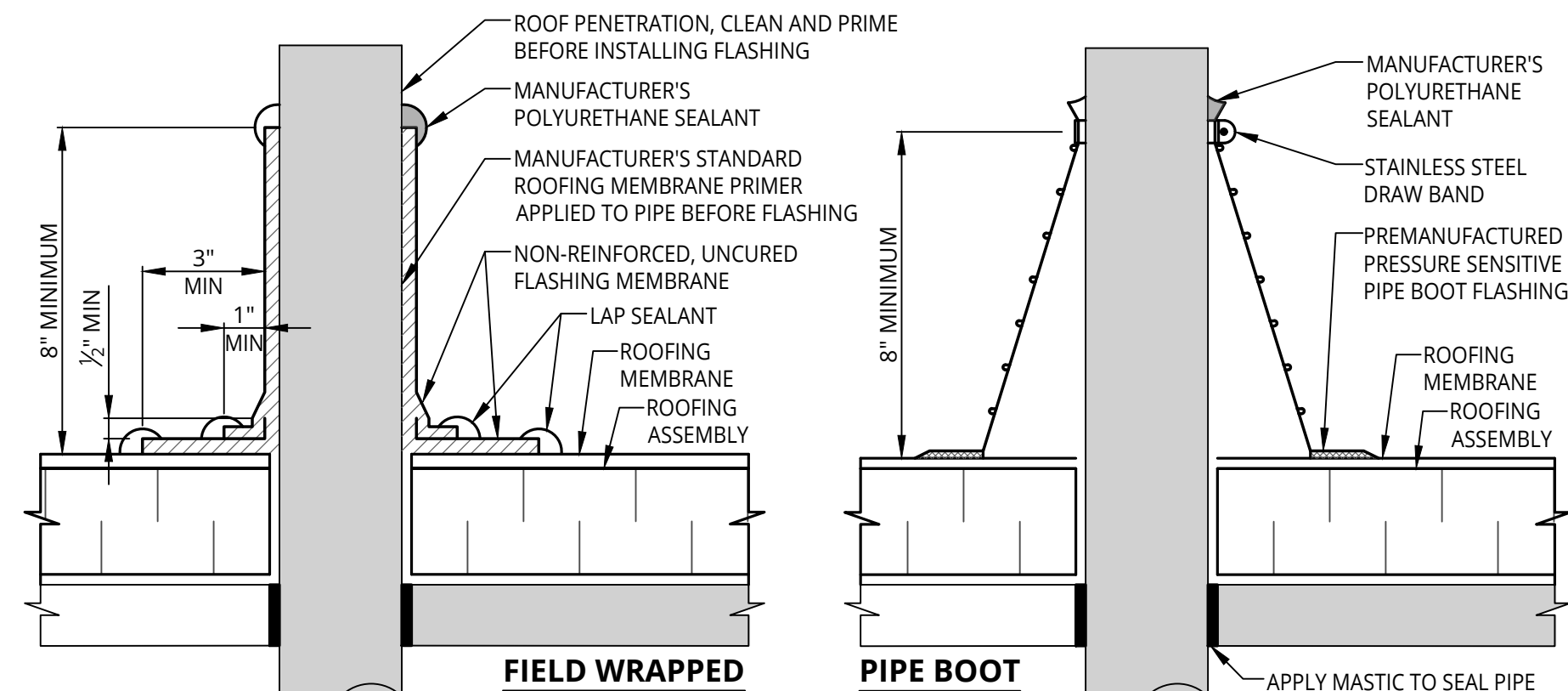
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A1.3 ROOF HATCH FLASHING
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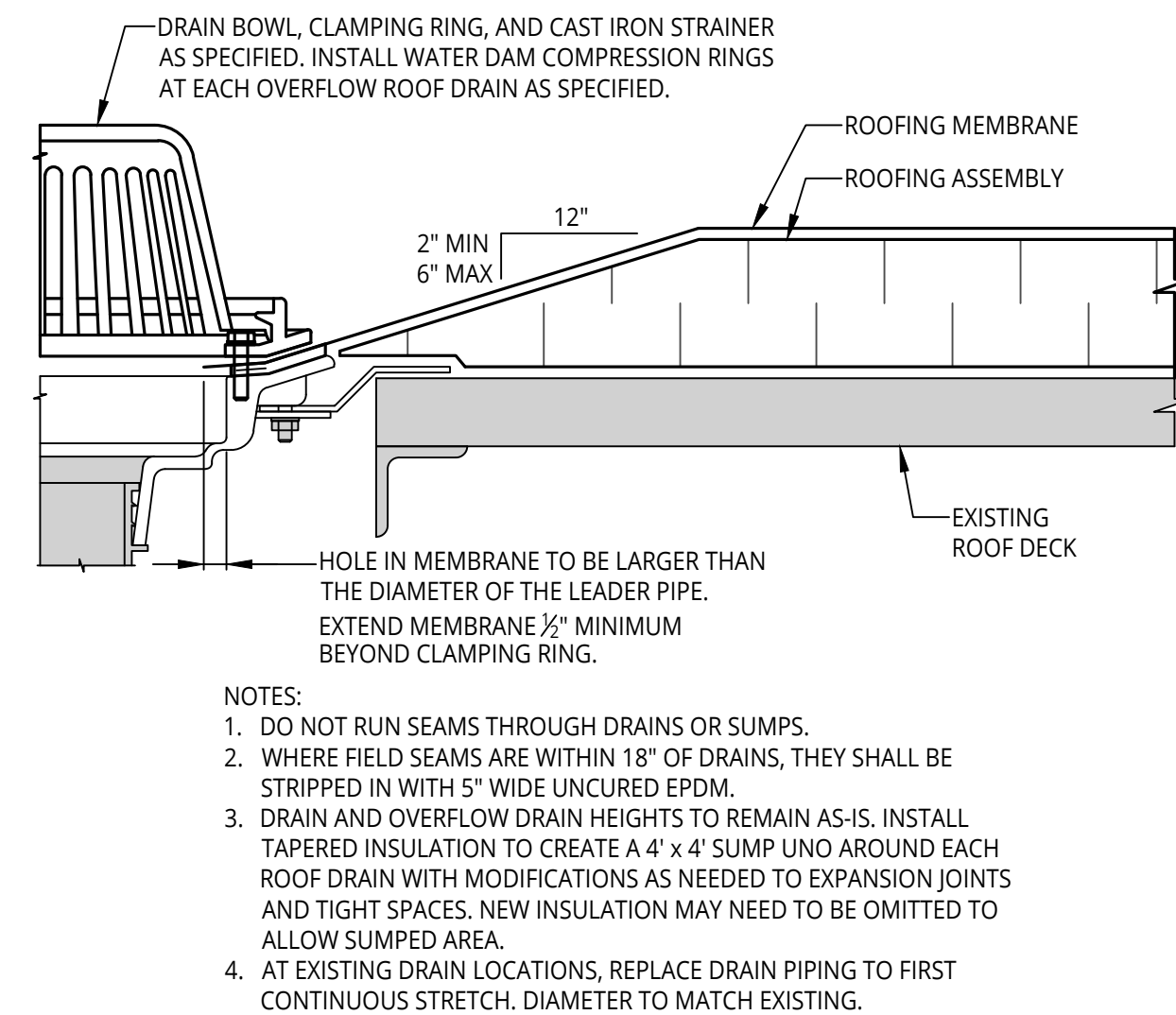
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A1.5 TYPICAL CURB WITH SLIP FLASHING
NOT TO SCALE



3
A1.2 TYPICAL CURB UP AND OVER FLASHING
NOT TO SCALE



2
A1.2 ROUND PENETRATION FLASHING
NOT TO SCALE



1
A1.1 ROOF DRAIN
NOT TO SCALE

Orientation	Scale

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DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24\"/>

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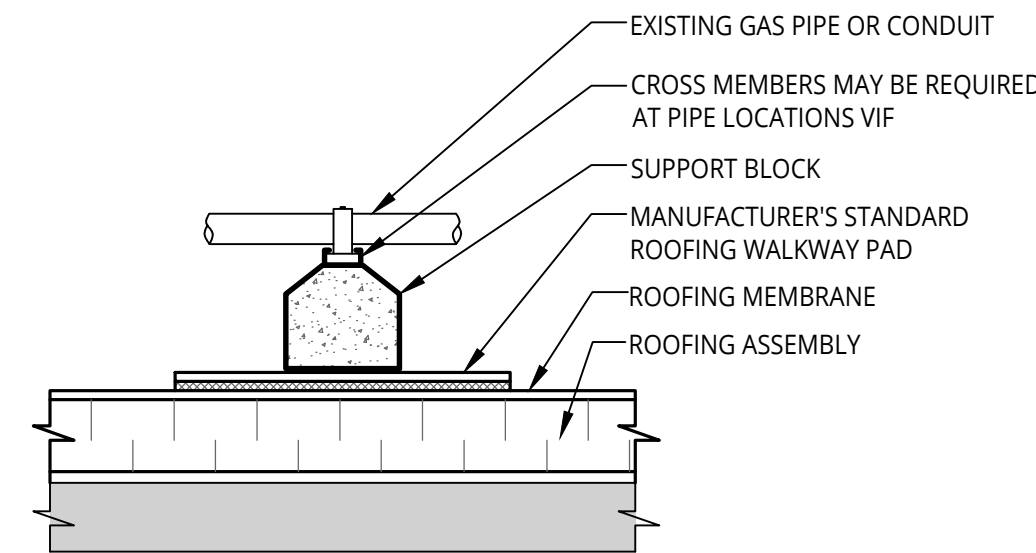
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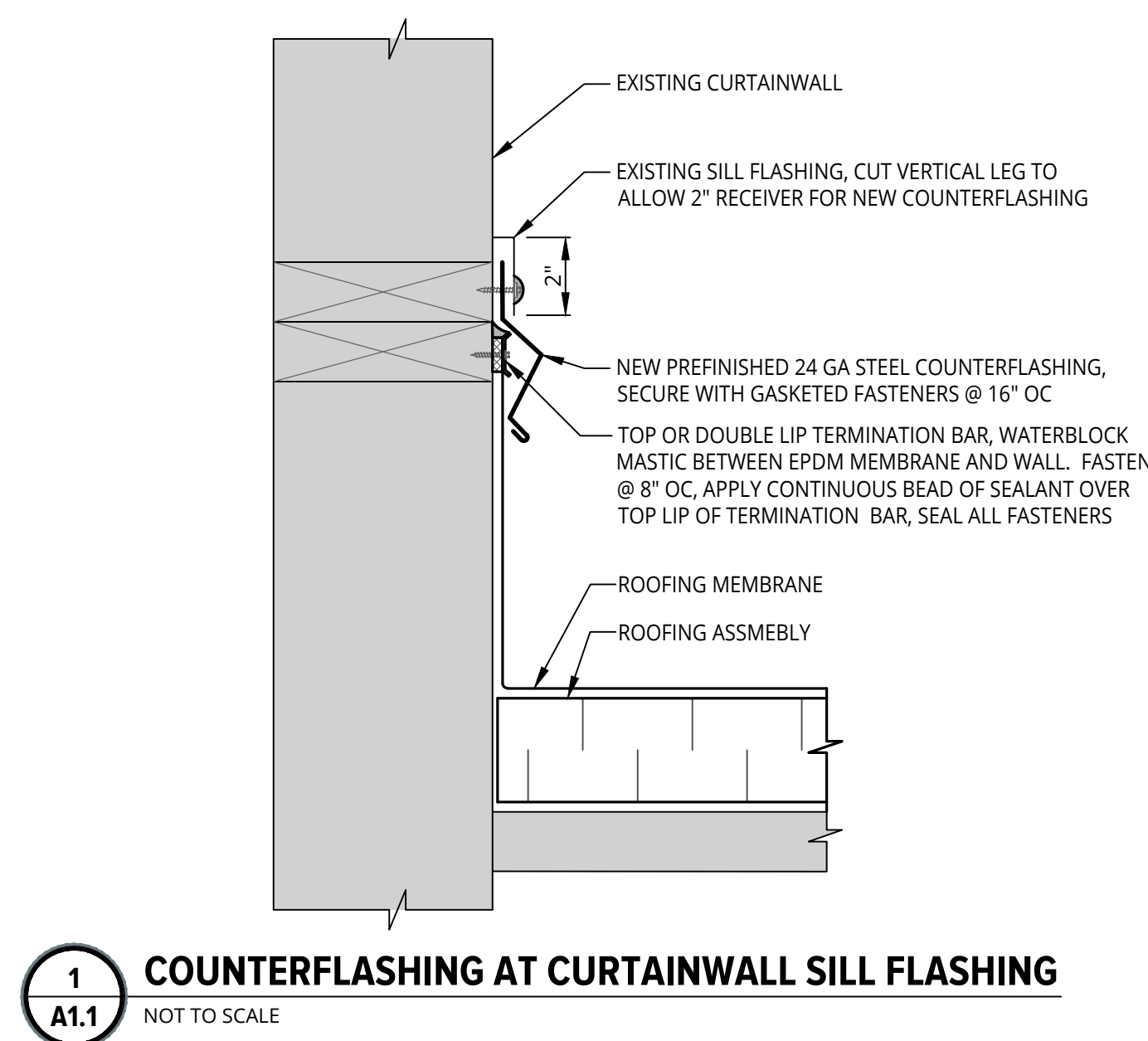
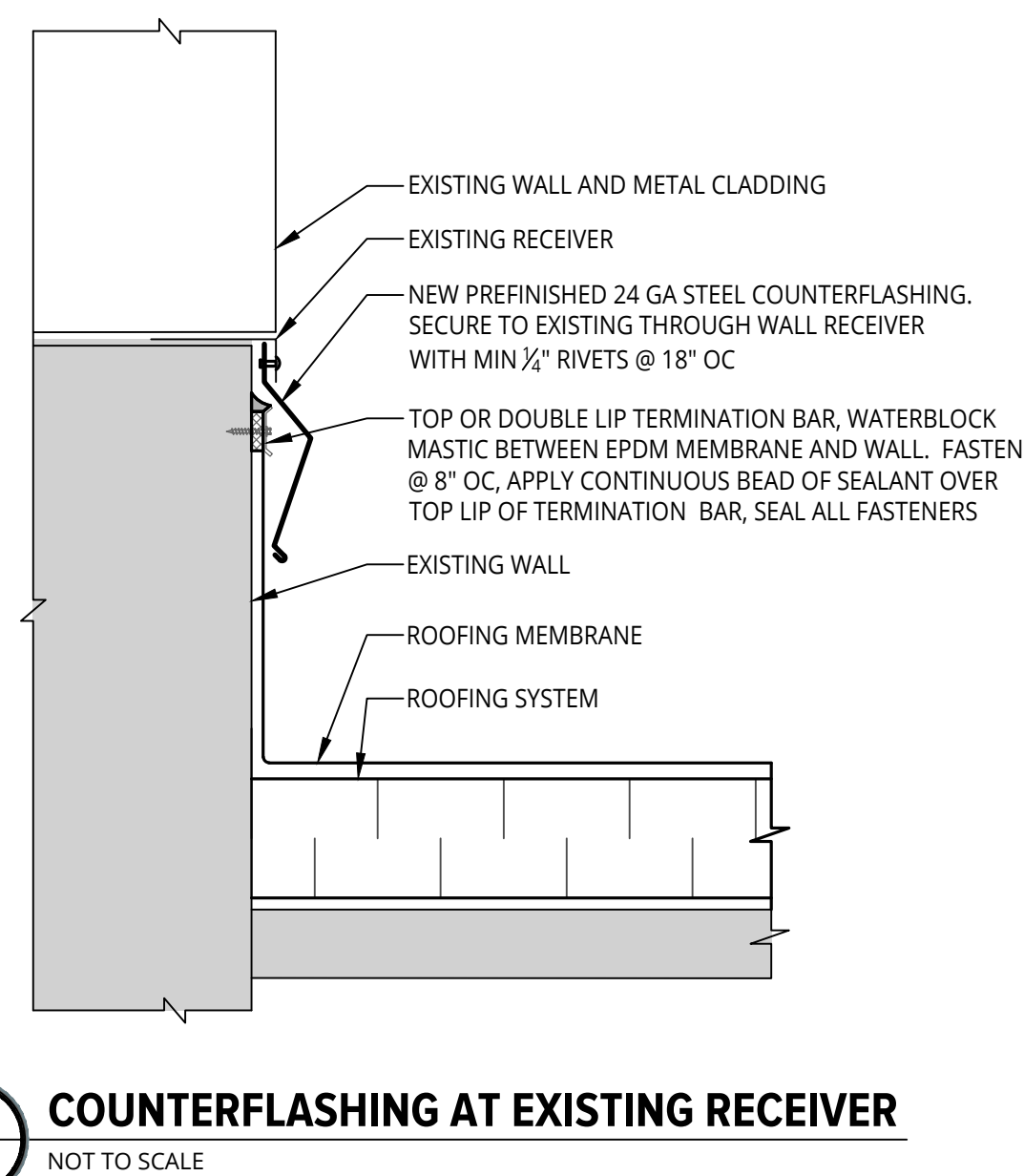
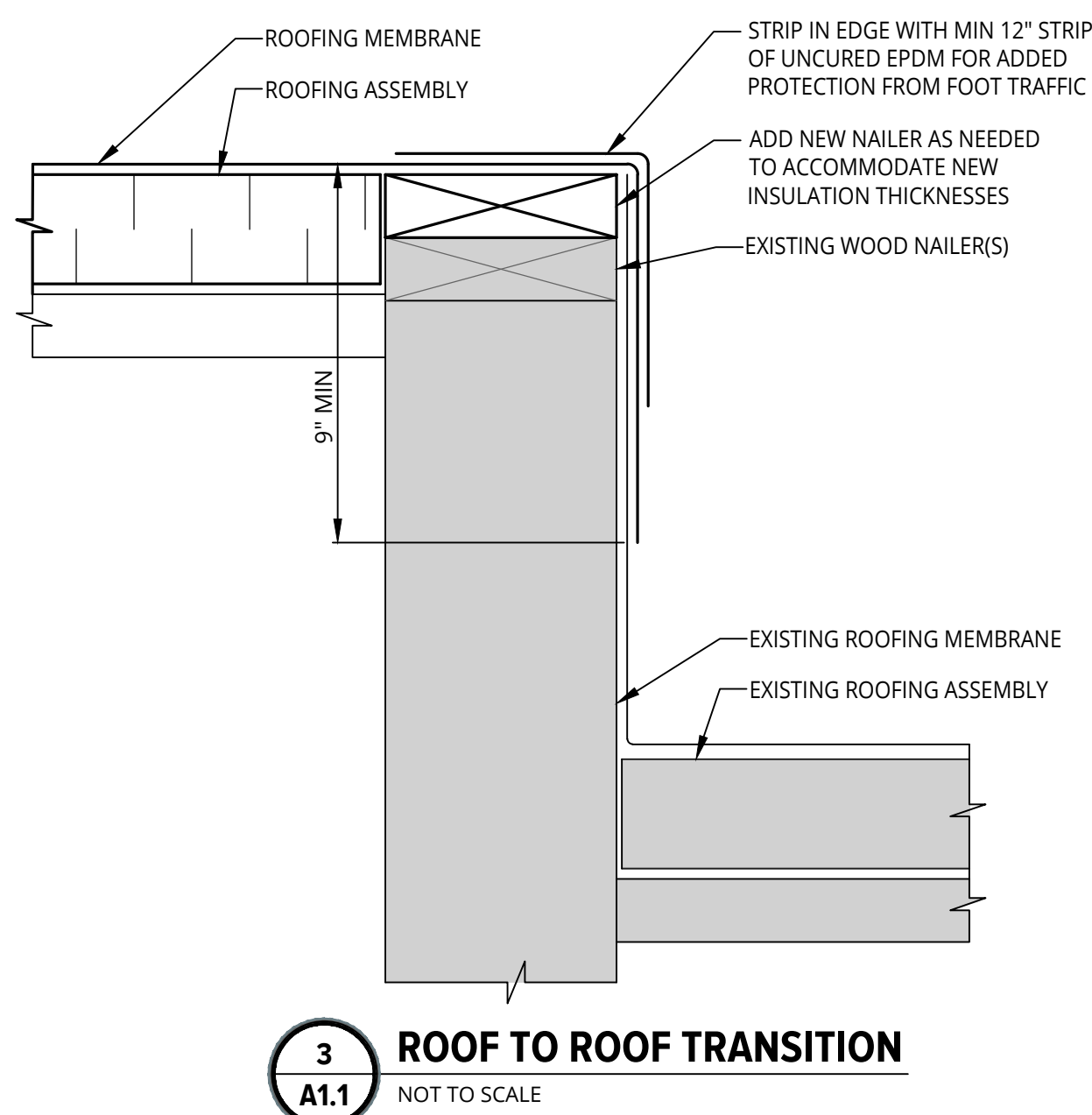
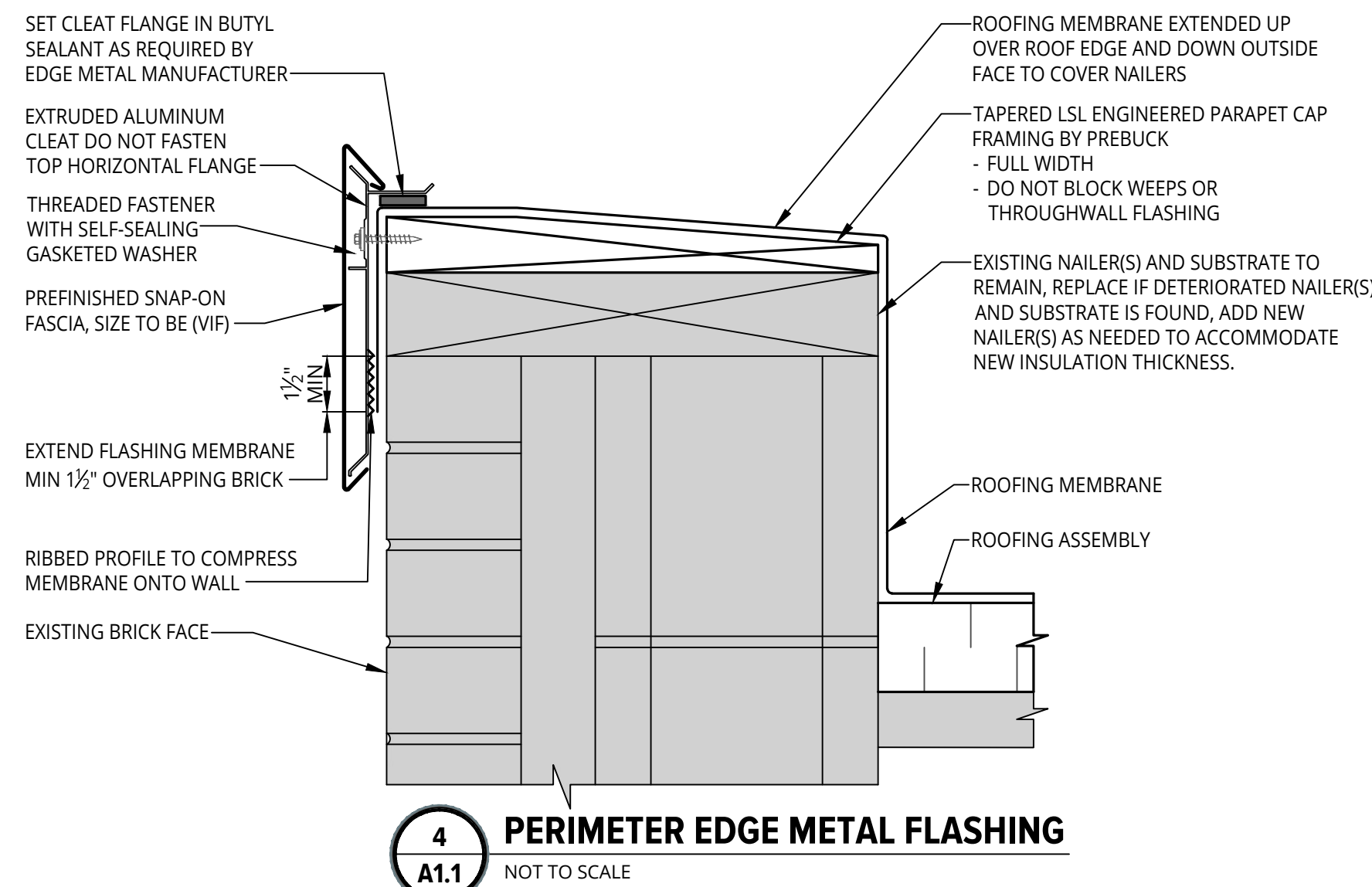
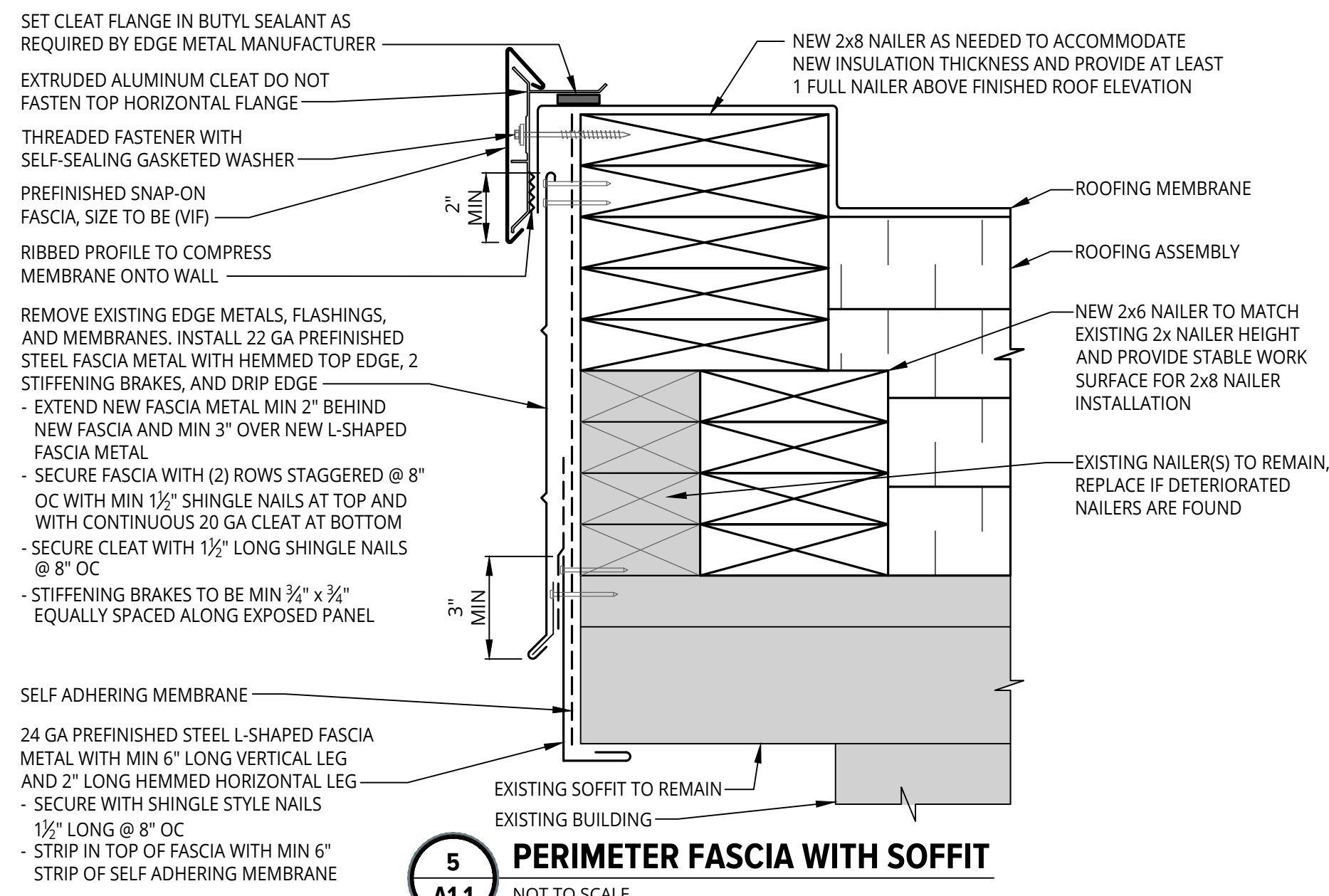
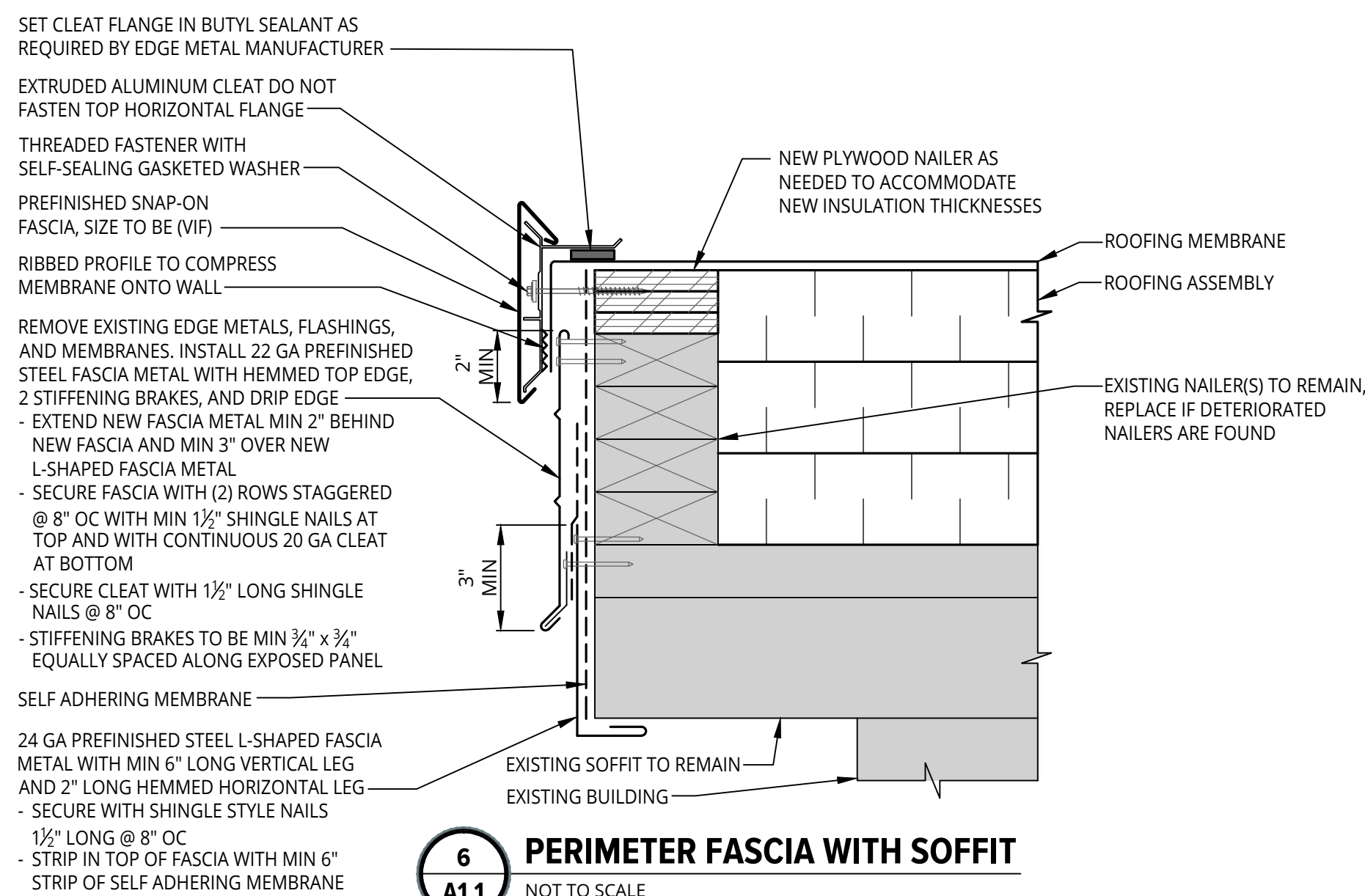
A4.2

DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24" X 36" AND
WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE
MEDIA
NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR
CONSENT OF SME
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- NOTES:
- EQUIPMENT SUPPORTS OVER WALKWAY PADS MAY VARY BASED ON USE. SEVERAL WALKWAY PADS MAY BE REQUIRED AT SUPPORTS.
 - THIS ROOF PROTECTION AND SUPPORT DETAIL SHALL NOT BE USED FOR HVAC EQUIPMENT SUPPORT CURBS THAT REQUIRE ATTACHMENT TO THE ROOF DECK FOR PROPER INSTALLATION.
 - WALKWAY PADS SHALL BE APPLIED IN WHOLE UNITS UNLESS SPECIFIC CONDITIONS REQUIRE SMALLER PIECES.
 - THE USE OF WOOD BLOCKING FOR PIPE OR CONDUIT IS NOT PERMITTED.

7 CONDUIT / GAS PIPE SUPPORT BLOCK
A1.5 NOT TO SCALE



Jan 10, 2024 - 11:40am - bryna.kardf@kmd.com - \\sme-inc\\cadd\\WP\\094776.00\\CAD\\Design Files\\MAT\\REV 1 - BIDS\\094776.00-DETAILS.dwg