

2023 Waterford School District Crary Campus Roofing Replacement 501 N. Cass Lake Road Waterford Twp., Michigan 48328



Orientation	Scale
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Project
**2023 WATERFORD SCHOOL DISTRICT
CRARY CAMPUS
ROOFING REPLACEMENT**

Project Location
**501 N. CASS LAKE RD.,
WATERFORD TWP., MI 48328**

Sheet Name
COVER SHEET

Seal

REV	ISSUED FOR	DATE	BY
	FOR BIDS	5-9-23	KD

SME Project No.
090588.03

Project Manager:
KD

Designer:
KD

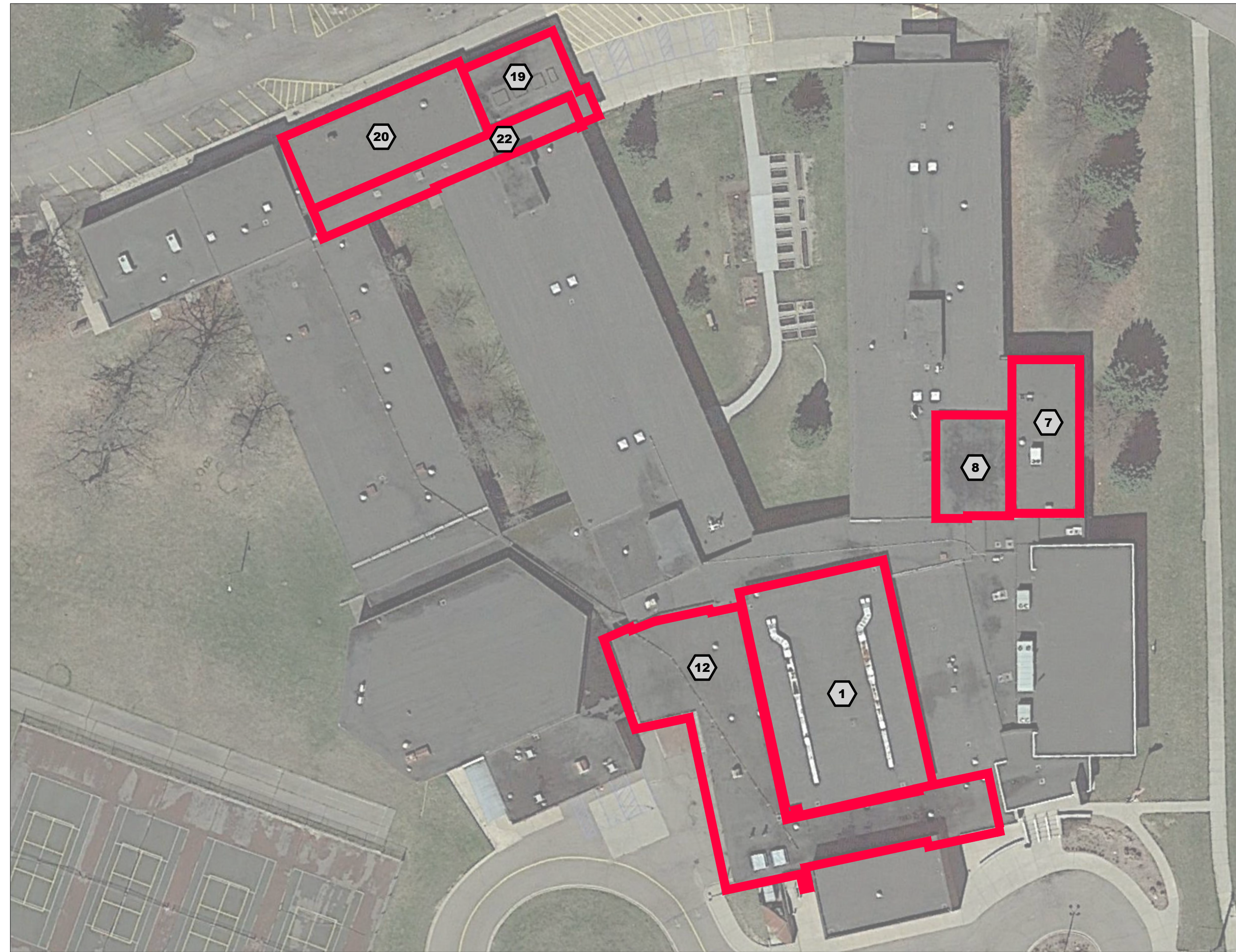
CADD:
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KD

Reviewed By:
LD

Sheet No.
GO.0

DRAWING NOTE: SCALE OBJECTS IN MEASUREMENT BOXES AND
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PLOT DATE: May 07, 2023 - 11:24am - gus.kurd@... FILE LOCATION: I:\sme-hq\p\wfp\090588.03\CAD\Design\Files\MAT\Rev\1\EB090588.03-COVER.dwg



OVERALL SITE AERIAL IMAGE
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

GENERAL NOTES

- THE BUILDING WILL REMAIN PARTIALLY OCCUPIED WITH THE OWNER'S SCHEDULED SUMMER MAINTENANCE, CONSTRUCTION AND ACADEMIC/ATHLETIC ACTIVITIES DURING THE COURSE OF THIS PROJECT. CLOSELY COORDINATE WORK WITH THE OWNER'S REPRESENTATIVE AND OTHER ACTIVITIES THAT MAY BE OCCURRING AT THE SITE.
- WHERE NOT INDICATED ON THE PROJECT DRAWINGS OR DESCRIBED IN THE SUMMARY OF WORK, PROVIDE THE MANUFACTURER'S STANDARD DETAILS. PROVIDE SPECIFIED CONTRACTOR'S SHOP DRAWINGS AND SPECIAL DETAILING REQUIREMENTS WITH THE PROJECT SUBMITTALS.
- PROVIDE NECESSARY TEMPORARY FENCING, BARRICADES, OR STRUCTURES AND OTHER SUCH MEASURES AS NEEDED TO PROTECT PEDESTRIAN AND VEHICLE TRAFFIC ADJACENT TO THE WORK AREA.
- PROVIDE TEMPORARY PROTECTION FOR EXTERIOR WALLS AND WINDOWS, ENTRANCES, LANDSCAPING AND PAVEMENTS. RESTORE DAMAGES CAUSED BY ROOFING OPERATIONS TO PRE-PROJECT CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- IN ADDITION TO ITEM 4 ABOVE, PROVIDE TEMPORARY PROTECTION FOR ROOFING THAT WILL BE TRAFFICKED OVER, OR USED FOR STAGING PURPOSES, INCLUDING BOTH NEW AND OLD ROOF AREAS, TO REDUCE THE POTENTIAL FOR LEAKAGE. SECTIONS ADJACENT TO THE WORK AREAS NOT INCLUDED IN THIS PROJECT ARE TO BE PROTECTED DURING THE FLASHING TIE-INS. THE CONTRACTOR WILL BE HELD RESPONSIBLE TO REPAIR SECTIONS DAMAGED DURING THIS PROJECT.
- PROVIDE TEMPORARY ROOFING, TIE-INS, WATER BLOCKS, AND INTERIOR PROTECTION DURING THE ROOFING REPLACEMENT TO PREVENT LEAKAGE INTO THE BUILDING, AND WATER DAMAGE TO INTERIOR FURNISHINGS, FINISHES, STORED MATERIALS AND EQUIPMENT.
- SPREAD OUT STORED MATERIALS ON THE ROOF SO AS NOT TO OVERLOAD THE ROOF DECKS.
- STORE MATERIALS OFF THE GROUND ON PALLETS, AND COVERED WITH OPAQUE, BREATHABLE WATERPROOF TARPULINS TO PROTECT FROM UV EXPOSURE AND WET WEATHER.
- STORE CONTAINERS OF MATERIALS SENSITIVE TO HIGH TEMPERATURES IN THE SHADE, OR IN CLIMATE CONTROLLED LOCATIONS.
- STORAGE OF MATERIALS INSIDE THE BUILDING IS PROHIBITED UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE OWNER'S REPRESENTATIVE. NO STORAGE OF FLAMMABLE MATERIALS ON OR WITHIN THE BUILDING IS PERMITTED. HOIST FLAMMABLES TO THE GROUND AND EITHER SECURELY STORE OR REMOVE FROM THE SITE AT THE END OF EACH WORK DAY. STORE FLAMMABLE FLUIDS A MINIMUM 50 FEET AWAY FROM THE BUILDING WHEN NOT IN USE.
- REMOVE DEBRIS FROM THE ROOF AND GROUNDS DAILY AND DISPOSE IN A PROPER MANNER.
- PROMPTLY REPORT UNANTICIPATED CONDITIONS UNCOVERED DURING ROOFING REMOVAL, REPLACEMENTS, AND RECOVERS THAT ARE CONTRARY TO THE PROJECT DOCUMENTS, OR WILL NEGATIVELY IMPACT THE NEW ROOFING SYSTEM, TO THE ENGINEER AND OWNER'S REPRESENTATIVE FOR REVIEW.
- VERIFY DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING WORK ITEMS REQUIRED FOR A COMPLETE WORK PRODUCT. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE UNDERSIDE OF THE ROOF DECK FOR CONDUITS OR OTHER UTILITIES THAT MAY BE DAMAGED FROM THE ROOFING PROJECT. CONDUIT WERE FOUND ON TOP OF THE ROOF DECK ON ROOF AREA 12.
- INSTALL NEW ROOFING IN COMPLIANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST REVISED EDITION OF THE NRCA ROOFING AND WATERPROOFING MANUAL, AND THE ROOFING MANUFACTURER.
- PROVIDE SHEET METAL COMPONENTS THAT COMPLY WITH THE LATEST EDITION OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL. COPINGS AND PERIMETER EDGE FLASHINGS TO BE TESTED AND INSTALLED ANSI-SPRI ES-1 ASSEMBLIES.
- 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. 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. 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.
- EXISTING DRAINS ARE TO BE REPLACED DOWN TO THE FIRST CONTINUOUS SECTION OF VERTICAL OR HORIZONTAL PIPING BENEATH THE DECK FOR ALL STANDARD DRAIN AND OVERFLOW DRAINS THAT ARE TO BE REMOVED AND REPLACED.
- NEW DRAIN LOCATIONS SHALL BE CONNECTED TO NEAREST ROOF STORM WATER PLUMBING SYSTEM.

LIST OF DRAWINGS

SHEET NO.	SHEET TITLE
G0.0	COVER SHEET
G1.0	ROOF AREA 1 WIND DESIGN LOADING / ZONE PLAN
G1.1	ROOF AREA 12 WIND DESIGN LOADING / ZONE PLAN
G1.2	ROOF AREAS 7 AND 8 WIND DESIGN LOADING / ZONE PLAN
G1.3	ROOF AREAS 19, 20, AND 22 WIND DESIGN LOADING / ZONE PLAN
A1.0	ROOF PLAN AREA 1
A1.1	ROOF PLAN AREA 12
A1.2	ROOF PLAN AREAS 7 AND 8
A1.3	ROOF PLAN AREAS 19, 20, AND 22
A5.0	DETAILS
A5.1	DETAILS
A5.2	DETAILS

ENGINEER

SME
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170
(734) 454-9900
CONTACT: KYLE DAMEROW, EIT

OWNER / CLIENT

WATERFORD SCHOOL DISTRICT
501N. CASS LAKE ROAD
WATERFORD, MICHIGAN 48328
(248) 682-7800
OWNER REPRESENTATIVE: MR. JOHN KEGLOVITZ
WWW.WATERFORD.K12.MI.US

APPLICABLE CODES

2015 MICHIGAN BUILDING CODE

SCOPE OF WORK

WORK INCLUDES PROVIDING LABOR, MATERIALS, EQUIPMENT, AND ADMINISTRATION NECESSARY TO INTEGRATE A NEW ADHERED, BLACK 60-MIL EPDM SINGLE-PLY ROOFING MEMBRANE, WITH A 20-YEAR WARRANTY, INTO THE TOTAL BUILDING SYSTEM AS SHOWN ON THE DRAWING SET.

ROOF AREAS:

ROOF AREA 7 (BASE BID) IS APPROXIMATELY 2,745 SQUARE FEET.

ROOF AREA 8 (BASE BID) IS APPROXIMATELY 1,795 SQUARE FEET.

ROOF AREA 1 (ALTERNATE) IS APPROXIMATELY 7,250 SQUARE FEET.

ROOF AREA 12 (ALTERNATE) IS APPROXIMATELY 8,975 SQUARE FEET.

ROOF AREA 19 (ALTERNATE) IS APPROXIMATELY 1,700 SQUARE FEET.

ROOF AREA 20 (ALTERNATE) IS APPROXIMATELY 3,575 SQUARE FEET.

ROOF AREA 22 (ALTERNATE) IS APPROXIMATELY 2,010 SQUARE FEET.

TOTAL ROOF AREA IS APPROXIMATELY 28,050 SQUARE FEET

WORK TASKS INCLUDE:

RECOVER

ROOF AREA 7 (BASE BID)

A. REMOVE EXISTING BUR GRAVEL SURFACING, MEMBRANE FLASHINGS, SUMPS, GRAVEL STOPS, AND SHEET METAL FLASHINGS.

B. VERIFY EXISTING MEMBRANE AND INSULATION ARE DRY. IF WET MEMBRANE AND/OR INSULATION IS ENCOUNTERED CONTACT ENGINEER PRIOR TO RECOVER INSTALLATION.

C. REVIEW ROOFING SUBSTRATES AND REPAIR OR REPLACE DETERIORATED PARAPET WALLS AND NAILERS AS NEEDED BASED ON UNCOVERED CONDITIONS DURING SELECTIVE DEMOLITION.

D. INSTALL POLYISOCYANURATE INSULATION AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING.

E. INSTALL NEW METAL FLASHINGS AS SHOWN ON THE PROJECT DRAWINGS AND AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 62 00 SHEET METAL FLASHING AND TRIM.

F. WHERE MECHANICAL UNITS ARE LIFTED TO ALLOW ROOF RECOVER, REINSTALL FASTENERS WITH INTEGRAL RUBBER GASKETS ON ALL SIDES OF THE UNIT.

REPLACEMENT

ROOF AREA 8 (BASE BID), 1 (ALTERNATE), 12 (ALTERNATE), 19 (ALTERNATE), 22 (ALTERNATE), AND 20 (ALTERNATE)

A. LOCALIZED DAMAGED SECTIONS OF GYPSUM DECKING ARE ANTICIPATED IN ROOF AREA 12. MEANS AND METHODS OF GYPSUM REMOVAL ARE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROVIDE AN ENGINEERED DETAIL FOR GYPSUM DECK INFILL (SIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF MICHIGAN). DETAIL TO BE PROVIDED TO SME (ENGINEER) FOR REVIEW AND SUBSEQUENT APPROVAL PRIOR TO INSTALLATION.

B. INSTALL BASE SHEET AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 ETHYLENE-DIENE-MONOMER (EPDM) ROOFING

C. INSTALL VAPOR RETARDER TO BASE SHEET AT ROOF AREAS 1 AND 12 AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 26 00 VAPOR RETARDERS.

D. INSTALL POLYISOCYANURATE INSULATION AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING.

E. INSTALL COVER BOARD AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING.

F. INSTALL NEW METAL FLASHINGS AS SHOWN ON THE PROJECT DRAWINGS AND AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 62 00 SHEET METAL FLASHING AND TRIM.

G. WHERE MECHANICAL UNITS ARE LIFTED TO ALLOW ROOF REPLACEMENT, REINSTALL FASTENERS WITH INTEGRAL RUBBER GASKETS ON ALL SIDES OF THE UNIT.

ISSUED FOR BID

Orientation	Scale
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Project
2023 WATERFORD SCHOOL DISTRICT
CRARY CAMPUS
ROOFING REPLACEMENT

Project Location
501 N. CASS LAKE RD.,
WATERFORD TWP., MI 48328

Sheet Name
ROOF AREA 1
WIND DESIGN LOADING /
ZONE PLAN

Seal

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Revisions

REV	ISSUED FOR	DATE	BY
	FOR BIDS	3-9-23	KD

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SME Project No.
090588.03

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KD

Designer:
KD

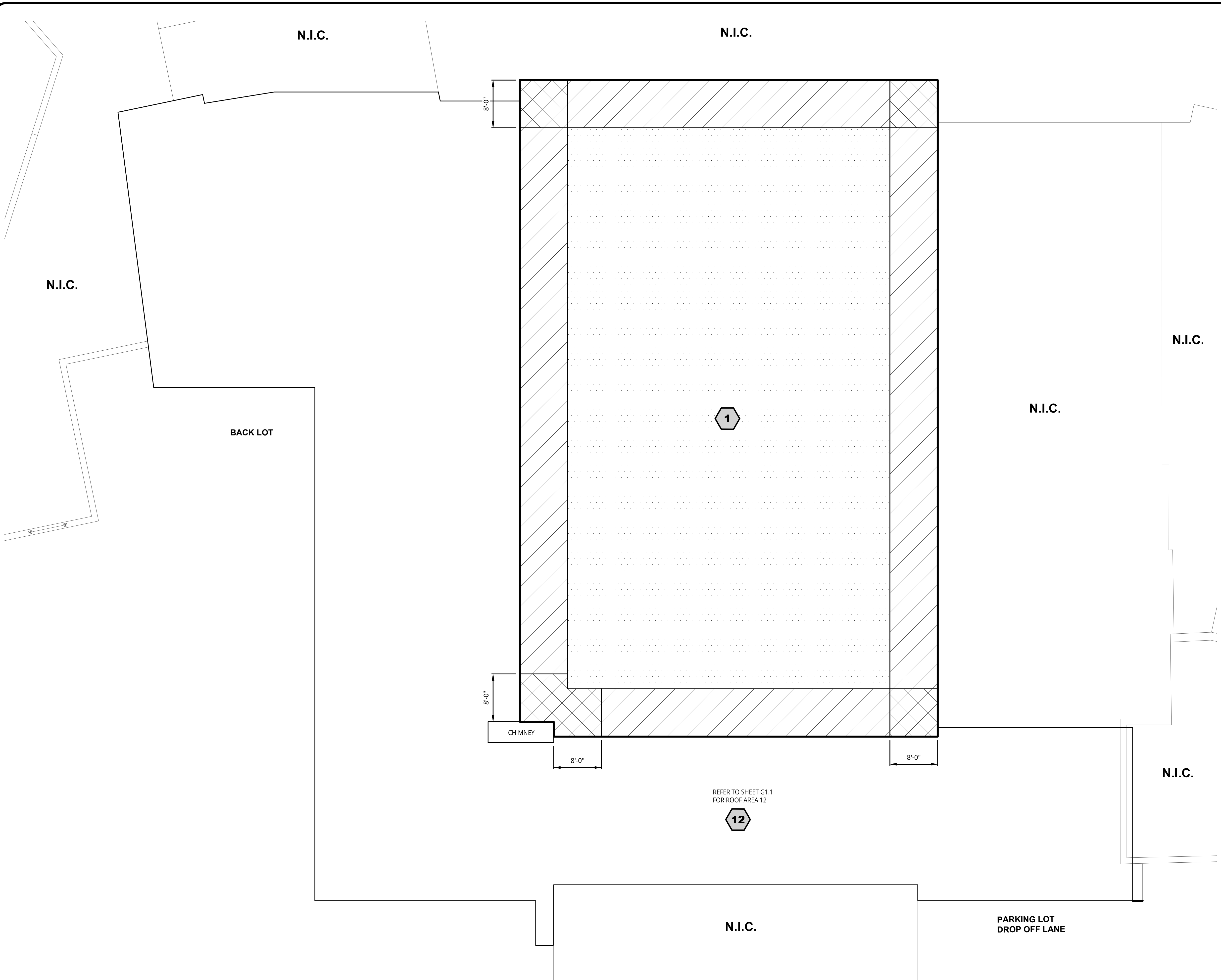
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KD

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LD

Sheet No.
G1.0

DRAWING NOTE: SCALE INDICATED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA.
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LEGEND

- # ROOF AREA
- Zone 1 (Dotted pattern)
- Zone 2 (Diagonal hatching)
- Zone 3 (Cross-hatching)

WIND DESIGN CRITERIA (MBC 2015)
CRARY CAMPUS
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

TABLE 1
SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING

ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	-22
ZONE 2 AND TOP/SIDE OF PARAPET	-35
ZONE 3 AND TOP/SIDE OF PARAPET	-53

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

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

REFER TO SHEET G1.1 FOR ROOF AREA 12



ROOF AREA 1
WIND DESIGN LOADING / ZONE PLAN
SCALE: 1/8" = 1'-0"



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Revisions

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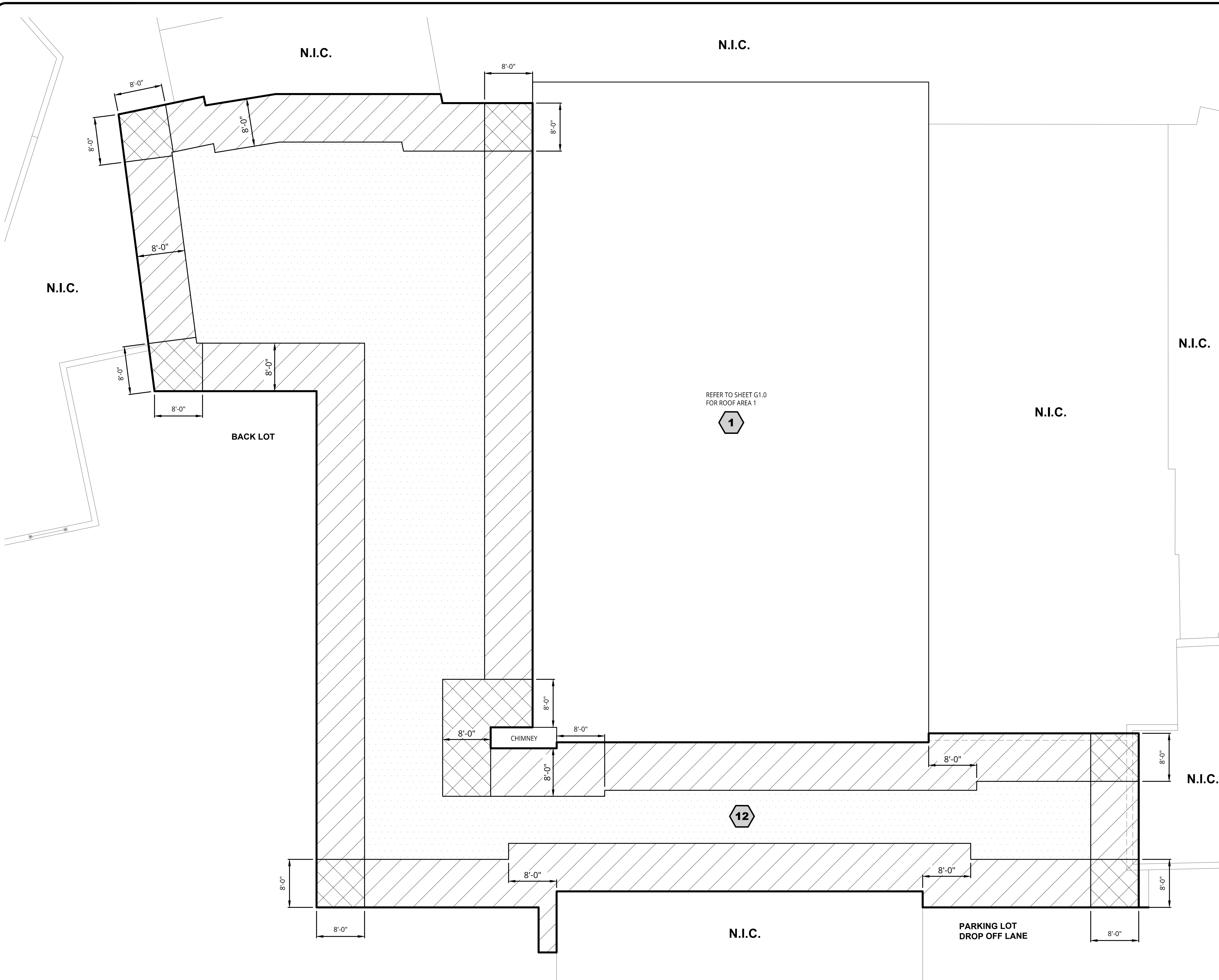
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Sheet No.
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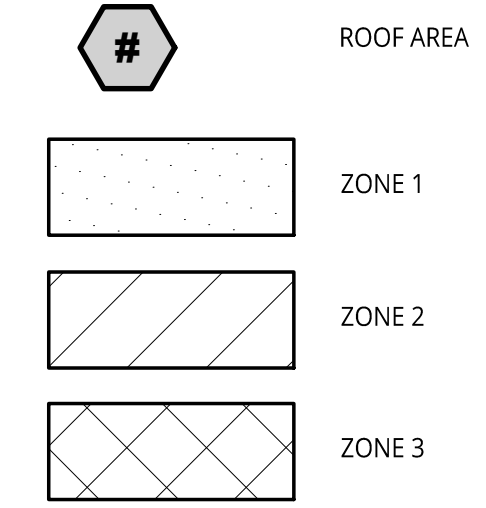
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REFER TO SHEET G1.0 FOR ROOF AREA 1

1

LEGEND



WIND DESIGN CRITERIA (MBC 2015)
CRARY CAMPUS
ULTIMATE DESIGN (FACTORED) BASIC WIND SPEED (3 SECOND GUST) = 120 MPH
NOMINAL WIND SPEED = 93 MPH
EXPOSURE CATEGORY = C
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NOTES:
1. WORK WIND DESIGN LOADING ZONE PLAN WITH TABLE 1, THIS SHEET.
2. WIND UPLIFT PRESSURE GIVEN IN TABLE 1 TO BE USED FOR DESIGN OF ROOFING FASTENING SYSTEM(S).
3. DESIGN PRESSURES BASED ON EFFECTIVE WIND AREA OF 10FT² OR LESS.

ROOF AREA 12 WIND DESIGN LOADING / ZONE PLAN
SCALE: 1/8" = 1'-0"

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Revisions

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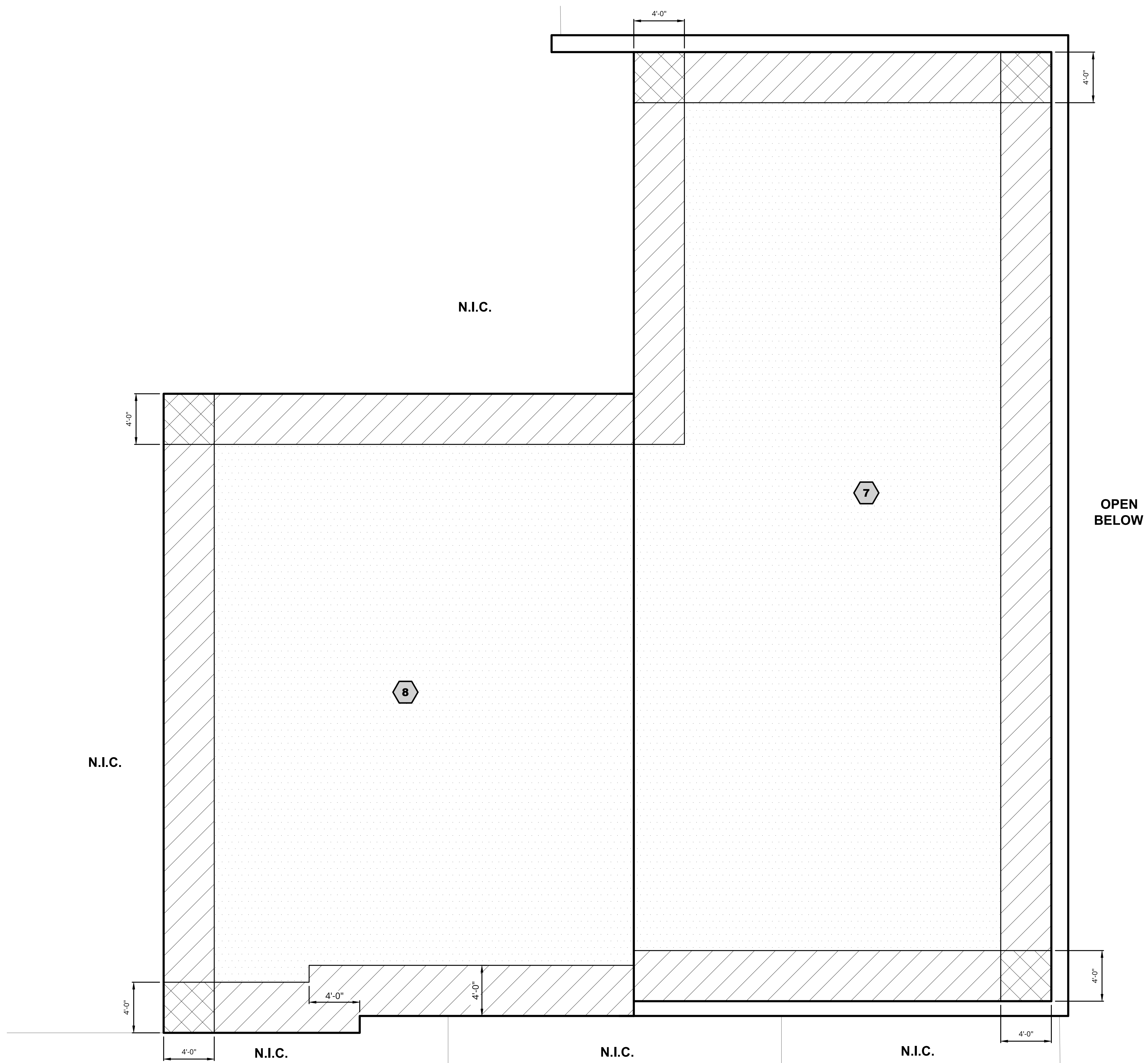
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Sheet No. G1.2

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LEGEND

ROOF AREA

Zone 1 (Dotted pattern)

Zone 2 (Diagonal hatch pattern)

Zone 3 (Cross-hatch pattern)

WIND DESIGN CRITERIA (MBC 2015)
CRARY CAMPUS
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

TABLE 1
SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING

ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	-22
ZONE 2 AND TOP/SIDE OF PARAPET	-35
ZONE 3 AND TOP/SIDE OF PARAPET	-53

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

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

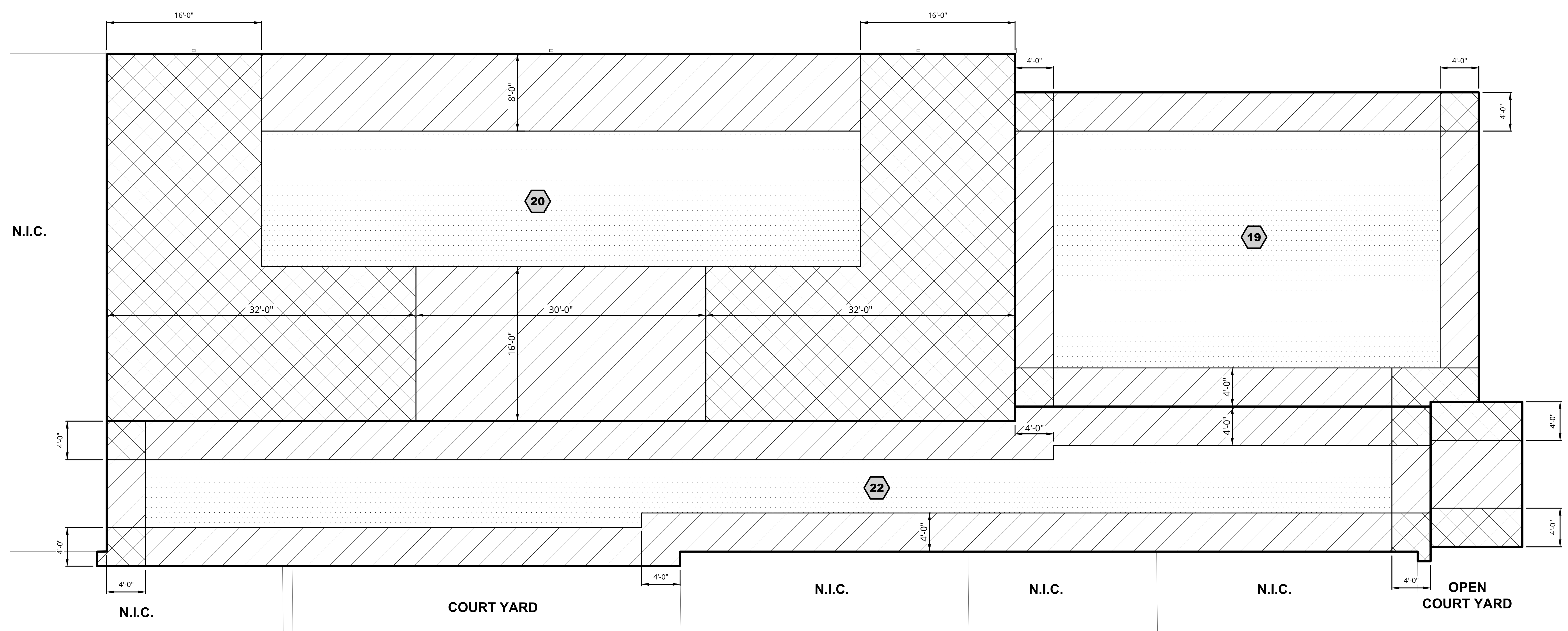
**ROOF AREAS 7 AND 8
WIND DESIGN LOADING / ZONE PLAN**
SCALE: 1/4" = 1'-0"



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Revisions

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**ROOF AREAS 19, 20, AND 22
WIND DESIGN LOADING / ZONE PLAN**
SCALE: 3/16" = 1'-0"

- LEGEND**
- # ROOF AREA
 - ▨ ZONE 1
 - ▧ ZONE 2 AND 2' (2 PRIME)
 - ▩ ZONE 3 AND 3' (3 PRIME)

WIND DESIGN CRITERIA (MBC 2015)
CRARY CAMPUS
ULTIMATE DESIGN (FACTORED) BASIC WIND SPEED (3 SECOND GUST) = 120 MPH
NOMINAL WIND SPEED = 93 MPH
EXPOSURE CATEGORY = C
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TABLE 1
SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING

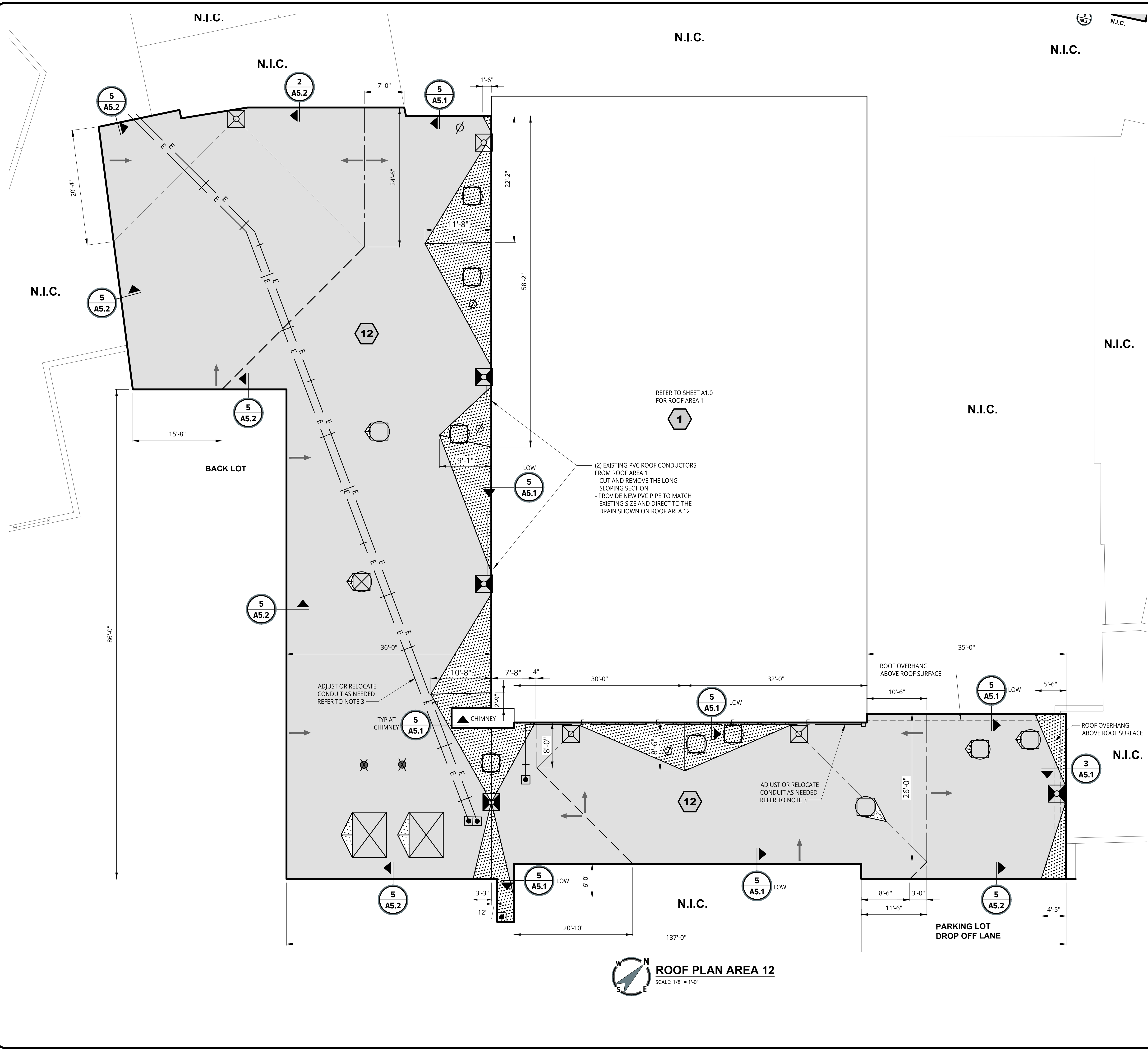
ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	-22
ZONE 2 AND 2' (2 PRIME) TOP/SIDE OF PARAPET	-35
ZONE 3 AND 3' (3 PRIME) TOP/SIDE OF PARAPET	-53

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

NOTES:
1. WORK WIND DESIGN LOADING ZONE PLAN WITH TABLE 1, THIS SHEET.
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LEGEND

- # ROOF AREAS
- EXISTING ROOF DRAIN, PER DETAIL 1 ON SHEET A5.0
- NEW ROOF DRAIN, PER DETAIL 1 ON SHEET A5.0
- CURBED MOUNT POWERED VENT (24"x24"), PER DETAIL 8 ON SHEET A5.0
- CURBED MOUNT PASSIVE VENT (24"x24"), PER DETAIL 8 ON SHEET A5.0
- 6"x8" EXHAUST HOODS ON CURB, PER DETAIL 8 ON SHEET A5.0
- POURABLE SEALER POCKET, PER DETAIL 5 ON SHEET A5.0
- SOIL VENT PIPE, PER DETAIL 4 ON SHEET A5.0
- 24" FLUE VENT STACK, PER DETAIL 2 ON SHEET A5.0
- ← WATER SHED DIRECTION
- N.I.C. ROOF AREA NOT IN CONTRACT
- E — ACTIVE ELECTRICAL CONDUIT PIPE TO REMAIN PER DETAIL 7 ON SHEET A5.0
- 1/2" PER FOOT TAPERED SADDLE
- 1/2" PER FOOT TAPERED SYSTEM
- RIDGE LINE
- VALLEY LINE
- HIP RIDGE LINE
- 1 A5.0 DETAIL CALL OUT

- CRARY CAMPUS NOTES:**
- FIELD VERIFY ALL DIMENSIONS.
 - LOCALIZED DAMAGED SECTIONS OF GYPSUM DECKING ARE ANTICIPATED IN ROOF AREA 12. REFER TO PROJECT SPECIFICATIONS SECTION 035116 GYPSUM DECKING FOR REPAIR/REPLACEMENT.
 - PROVIDE LICENSED ELECTRICAL, PLUMBING, OR HVAC SUBCONTRACTORS TO RAISE OR ADJUST HVAC DUCTWORK TO ACCOMMODATE NEW INSULATION THICKNESSES AND MEET WARRANTY REQUIREMENTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER.

ROOF PLAN AREA 12
SCALE: 1/8" = 1'-0"

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Orientation	Scale
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Project
2023 WATERFORD SCHOOL DISTRICT
CRARY CAMPUS
ROOFING REPLACEMENT

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Sheet Name
ROOF PLAN AREA 12

Revisions

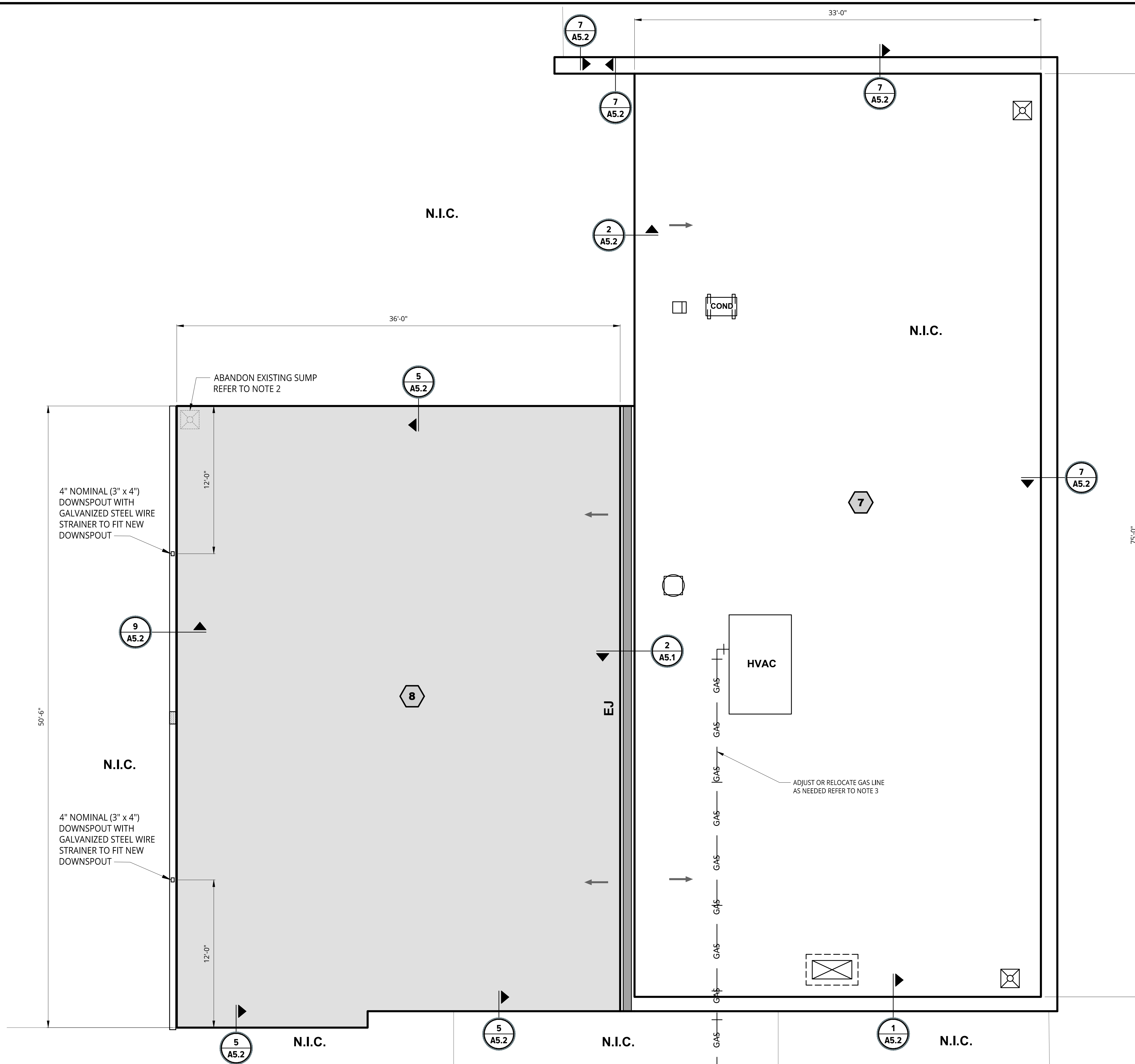
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Mar 07, 2023 - 11:53am - gus.karell FILE LOCATION: \\name-hpc\p1\WP\090588.03\CAD\Design Files\MAT\Rev1\FB\090588.03-ROOF PLAN.dwg

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LEGEND

- ROOF AREA
- EXISTING ROOF DRAIN, PER DETAIL 1 ON SHEET A5.0
- CURBED MOUNT PASSIVE VENT (24"x24"), PER DETAIL 8 ON SHEET A5.0
- CURBED UNIT, PER DETAIL 8 ON SHEET A5.0
- HVAC ROOFTOP UNIT ON CURB, PER DETAIL 9 ON SHEET A5.0
- CONDENSING UNIT SUPPORTED BY EPDM WALKWAY PADS, PER DETAIL 1 ON SHEET A5.1
- CONDUIT PENETRATION, PER DETAIL 6 ON SHEET A5.0
- WATER SHED DIRECTION
- N.I.C.** ROOF AREA NOT IN CONTRACT
- ACTIVE GAS PIPE TO REMAIN, PER DETAIL 7 ON SHEET A5.0
- RAISED EXPANSION JOINT, PER DETAIL 2 ON SHEET A5.1
- 1/4" PER FOOT TAPERED SYSTEM
- DETAIL CALL OUT
- GUTTER EXPANSION JOINT

- CRARY CAMPUS NOTES:
- FIELD VERIFY ALL DIMENSIONS.
 - REMOVE EXISTING DRAIN AND SUMP. CONTRACTOR SHALL PROVIDE ENGINEERED DETAIL FOR GYPSUM DECK INFILL (SIGNED AND STAMPED BY AN ENGINEER LICENSED IN THE STATE OF MICHIGAN). DETAIL TO BE PROVIDED TO SME (ENGINEER) FOR REVIEW AND SUBSEQUENT APPROVAL PRIOR TO INSTALLATION.
 - PROVIDE LICENSED ELECTRICAL, PLUMBING, OR HVAC SUBCONTRACTORS TO RAISE OR ADJUST HVAC DUCTWORK TO ACCOMMODATE NEW INSULATION THICKNESSES AND MEET WARRANTY REQUIREMENTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER.

ROOF PLAN AREAS 7 AND 8
SCALE: 1/4" = 1'-0"

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KD

Designer:
KD

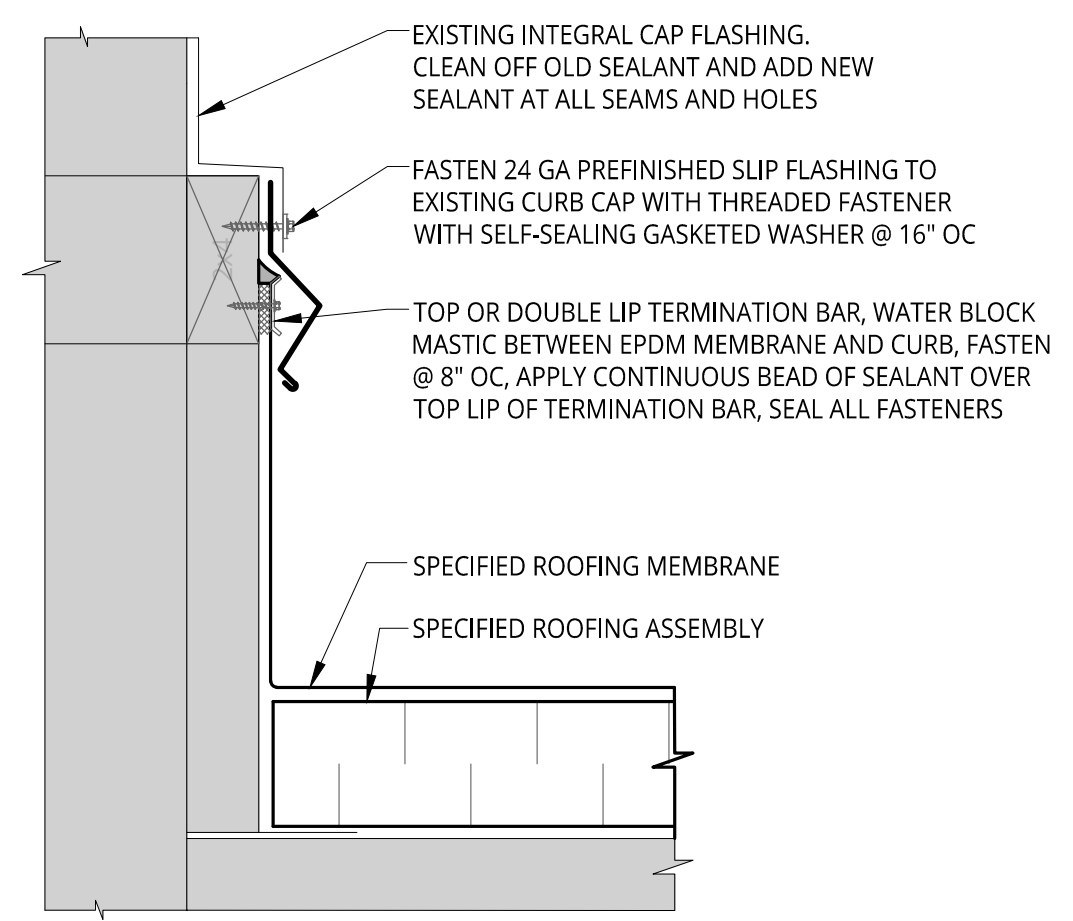
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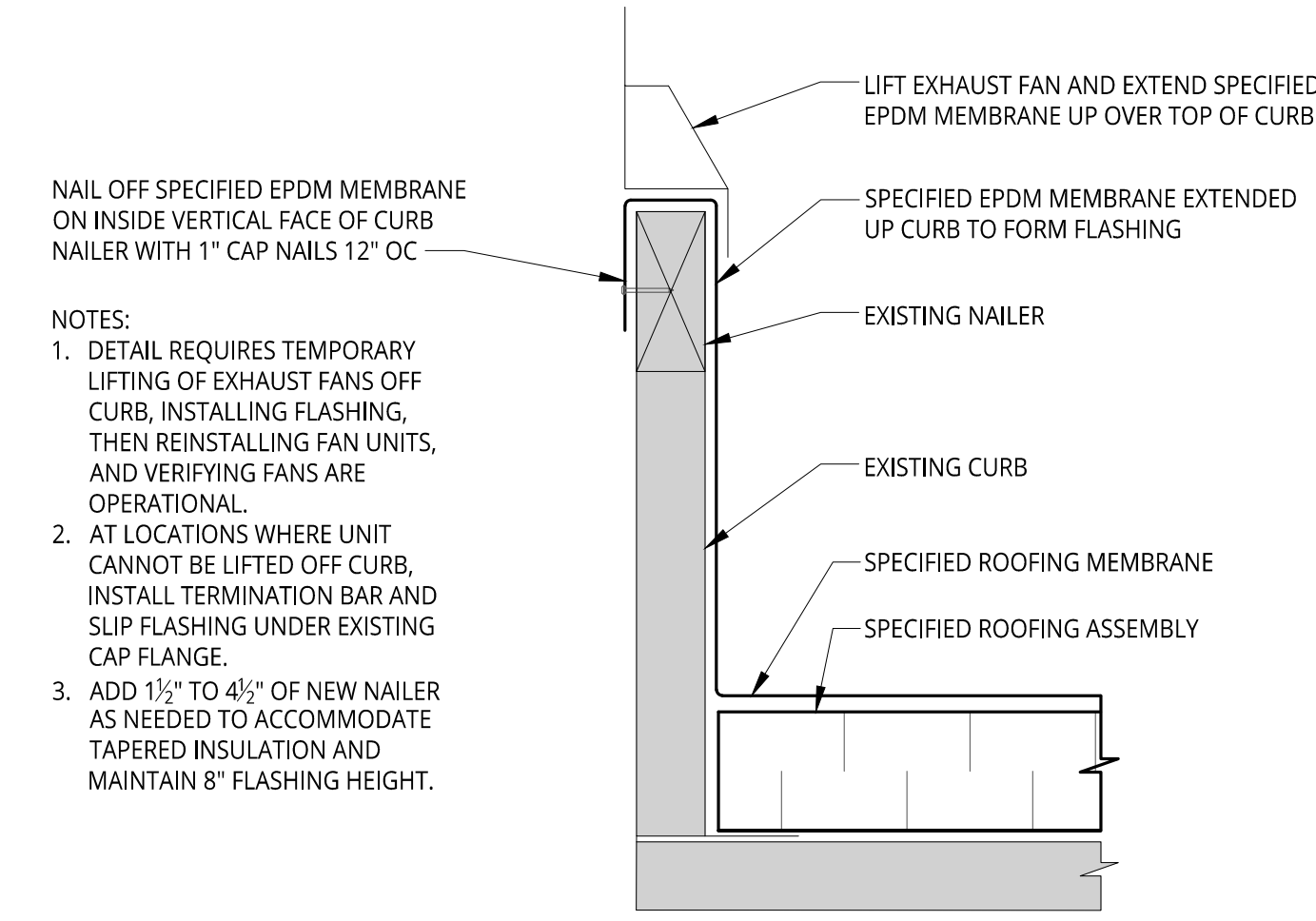
Reviewed By:
LD

Sheet No.
A5.0

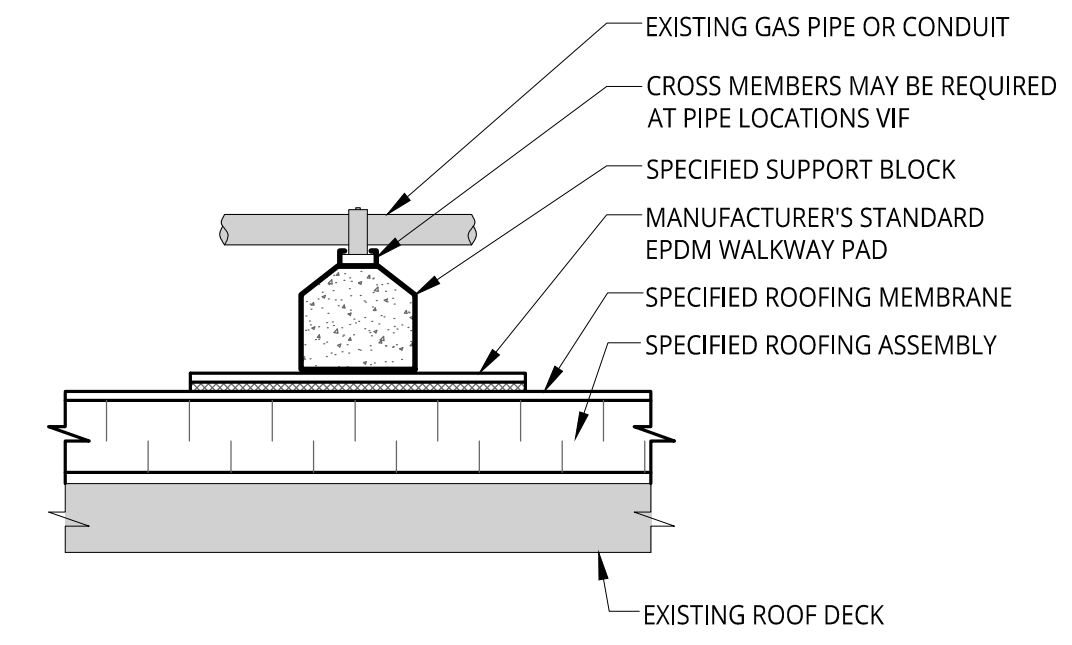
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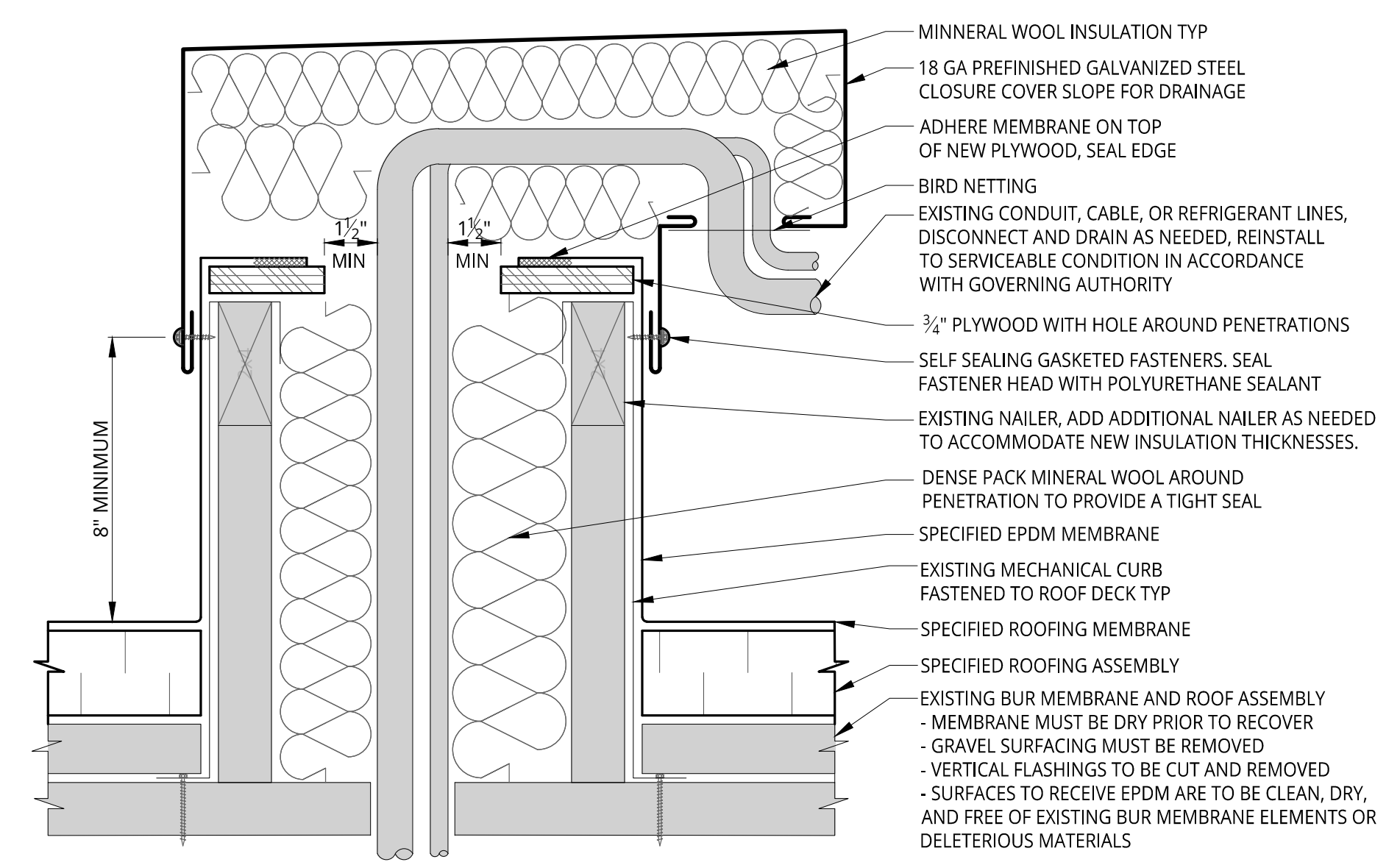
9 TYPICAL CURB WITH SLIP FLASHING
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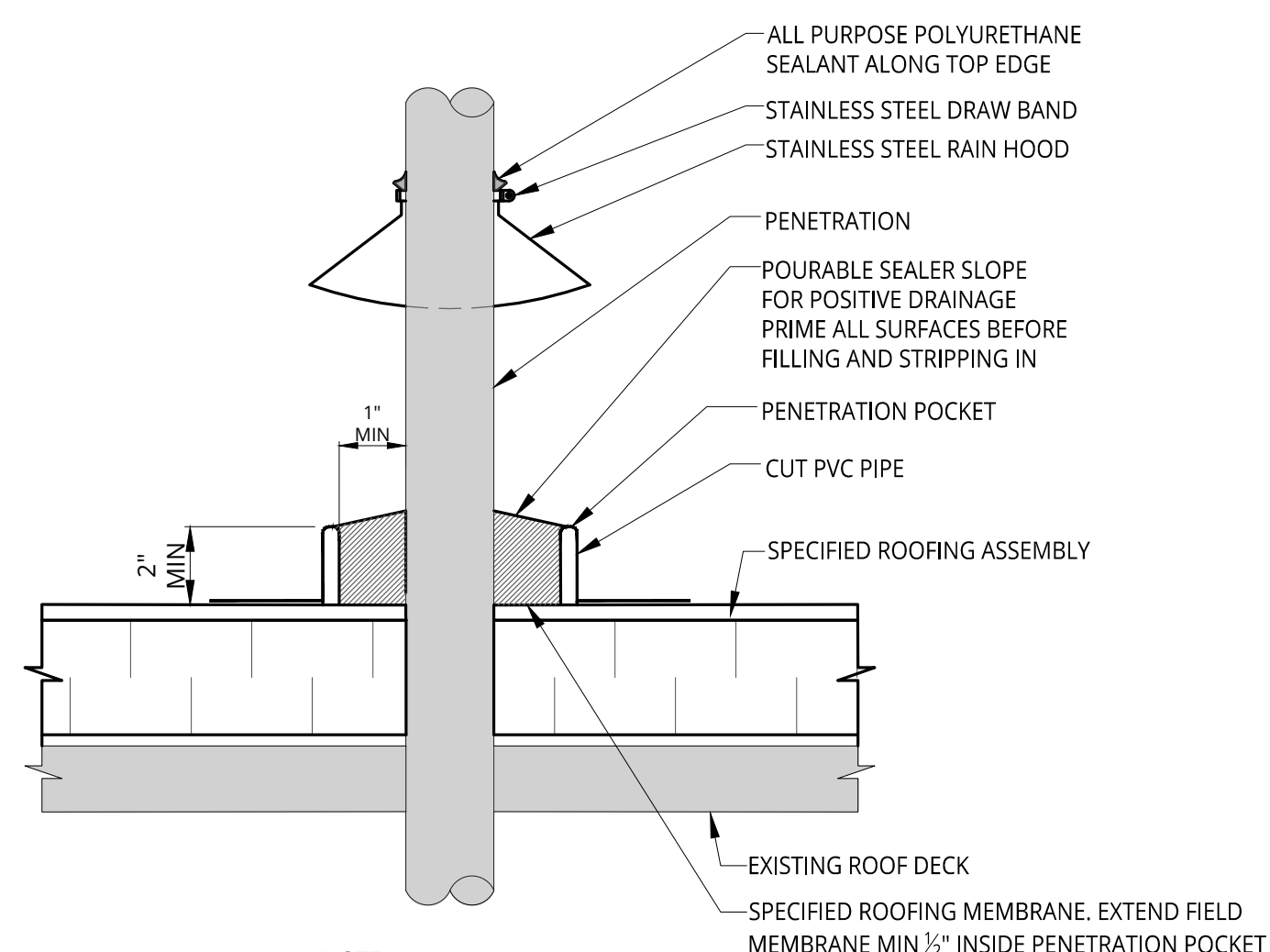
8 TYPICAL CURB UP AND OVER FLASHING
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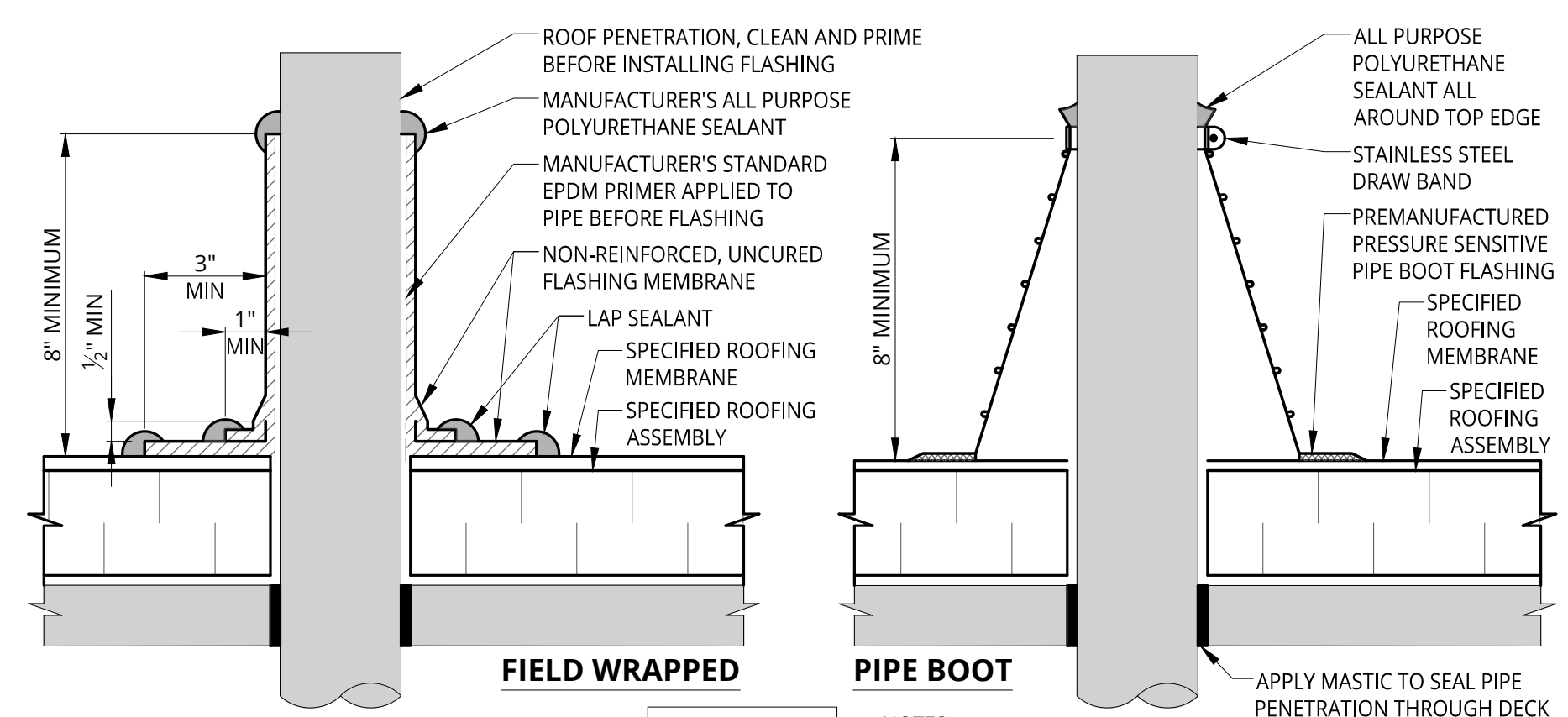
7 CONDUIT / GAS PIPE SUPPORT BLOCK
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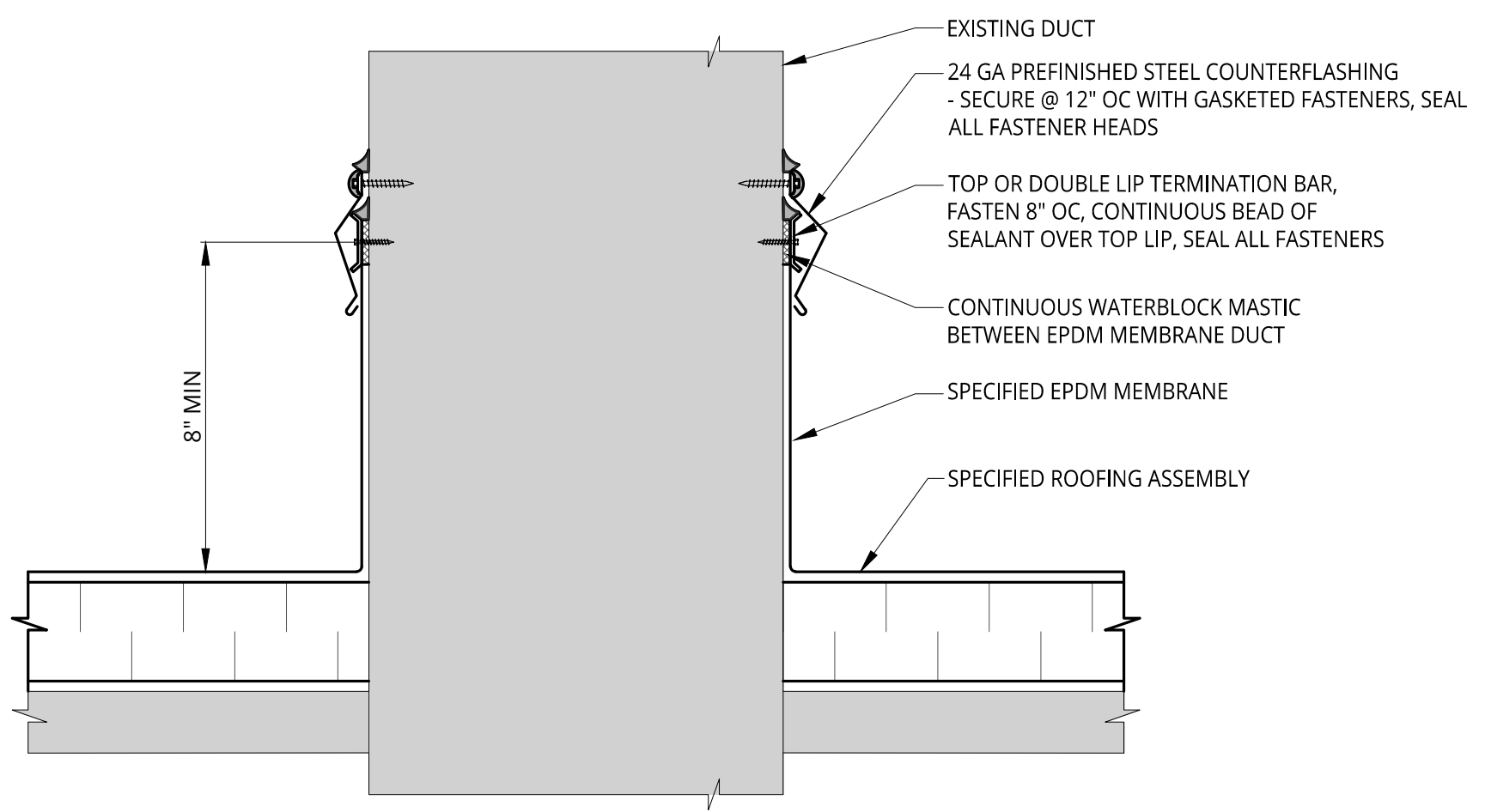
6 PENETRATION FLASHING BOX WITH HOOD
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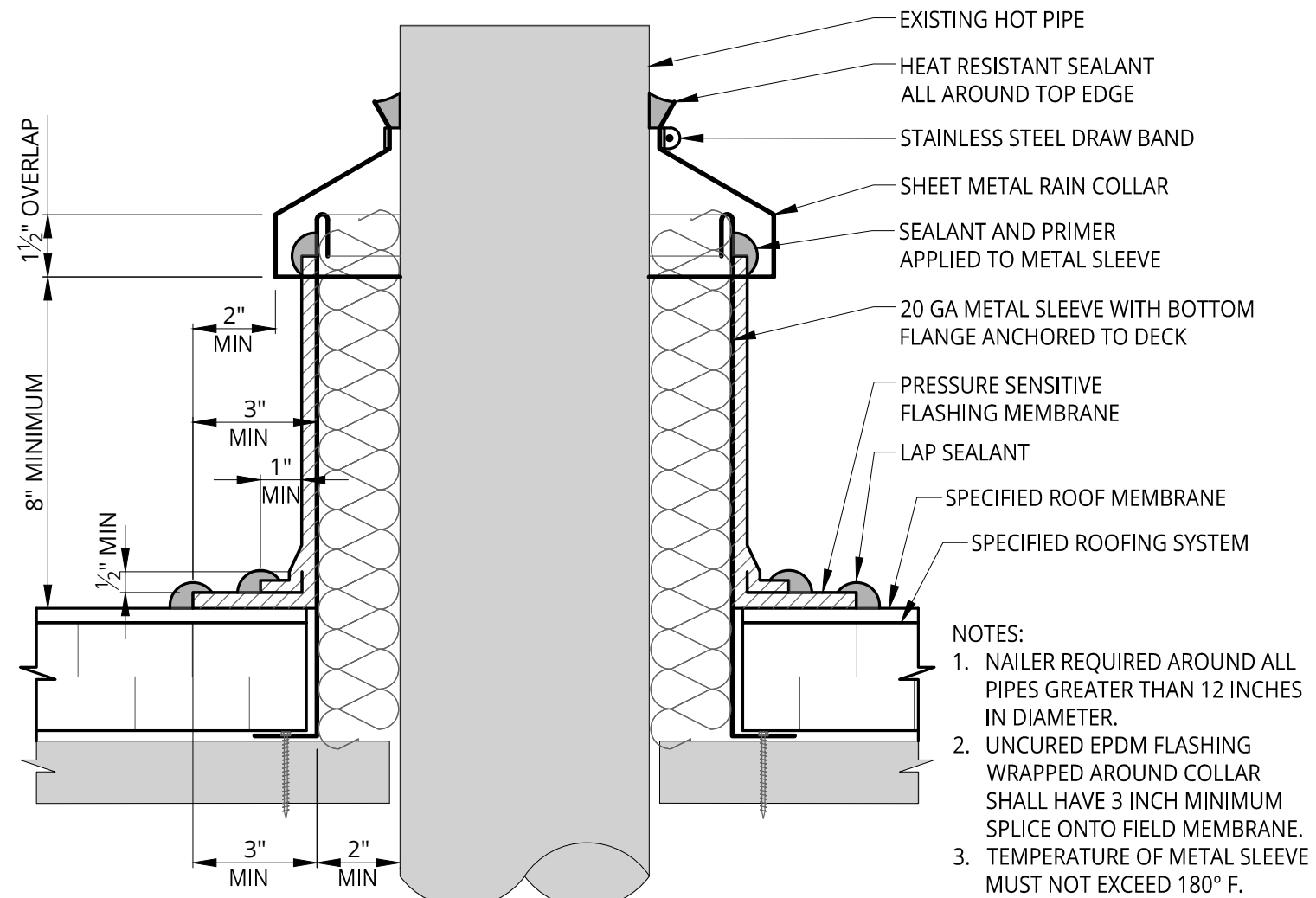
5 POURABLE SEALER POCKET
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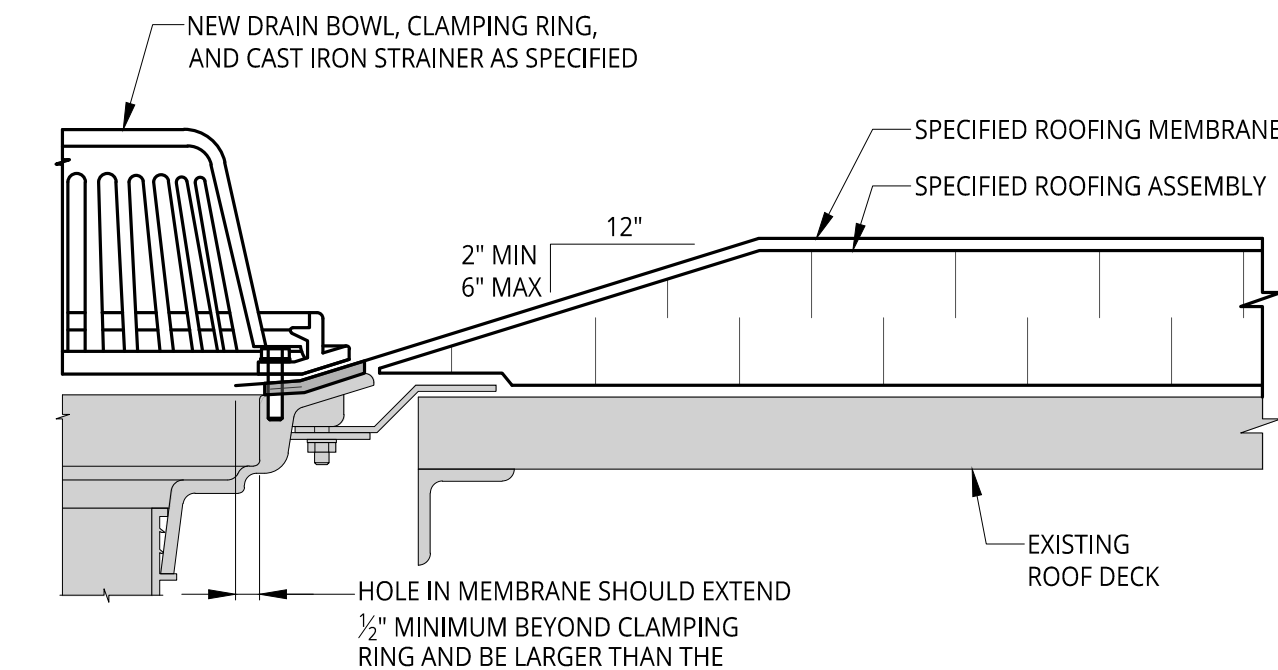
4 ROUND PENETRATION FLASHING
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3 SQUARE DUCT PENETRATION
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5 TYPICAL HOT PIPE FLASHING
A1.0 NOT TO SCALE



1 ROOF DRAIN
A1.0 NOT TO SCALE

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Orientation	Scale
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Project
2023 WATERFORD SCHOOL DISTRICT CRARY CAMPUS ROOFING REPLACEMENT

Project Location
501 N. CASS LAKE RD., WATERFORD TWP., MI 48328

Sheet Name
FLASHING DETAILS

Seal

Revisions

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	FOR BIDS	3-9-23	KD

SME Project No.
090588.03

Project Manager:
KD

Designer:
KD

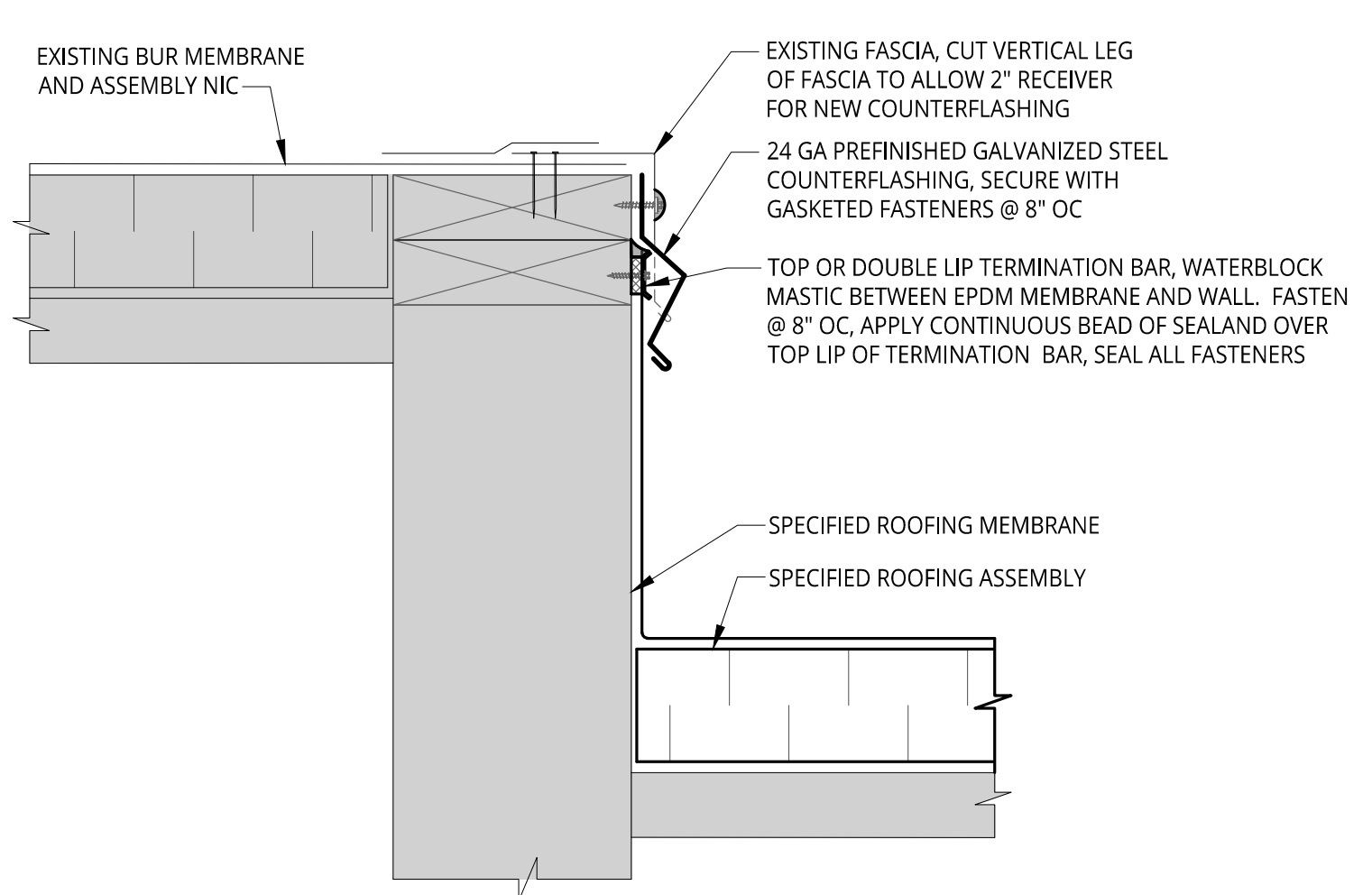
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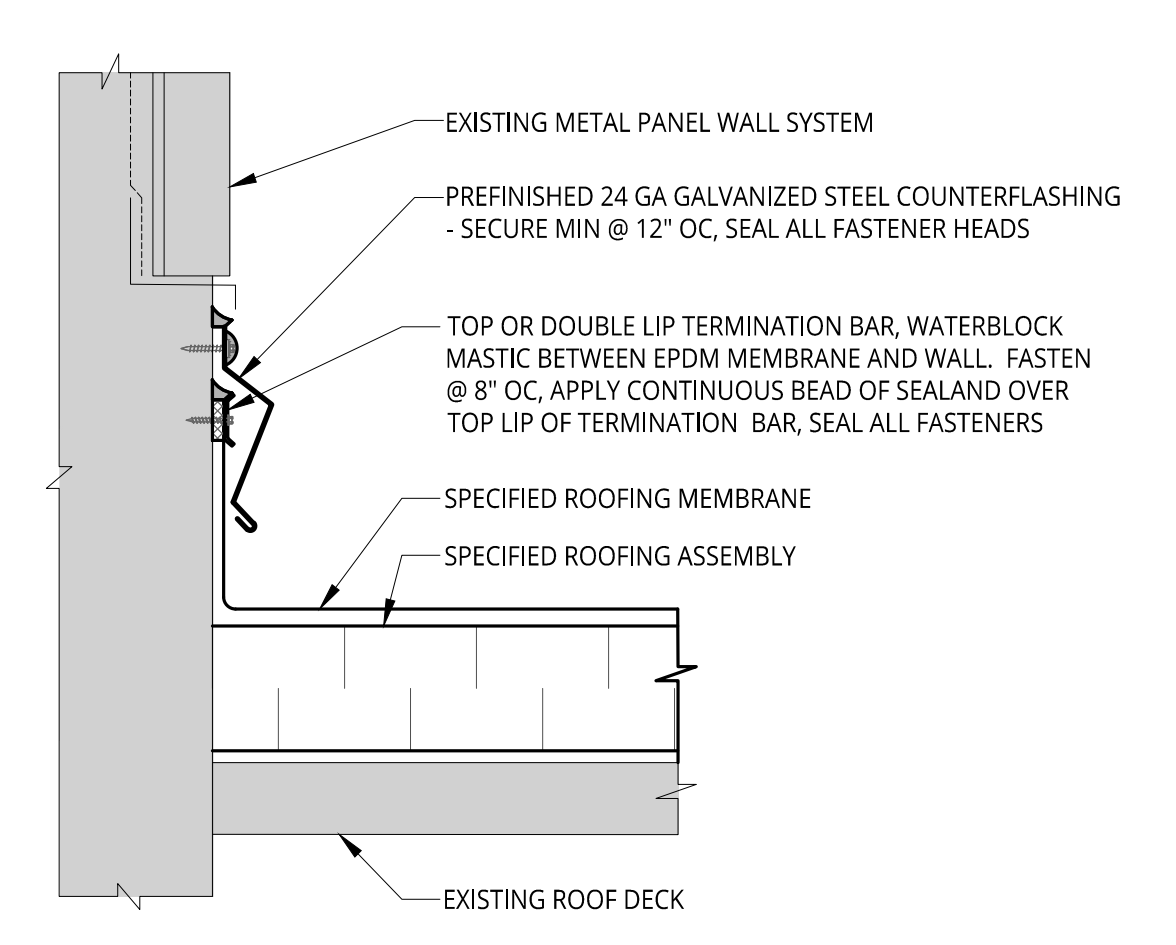
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LD

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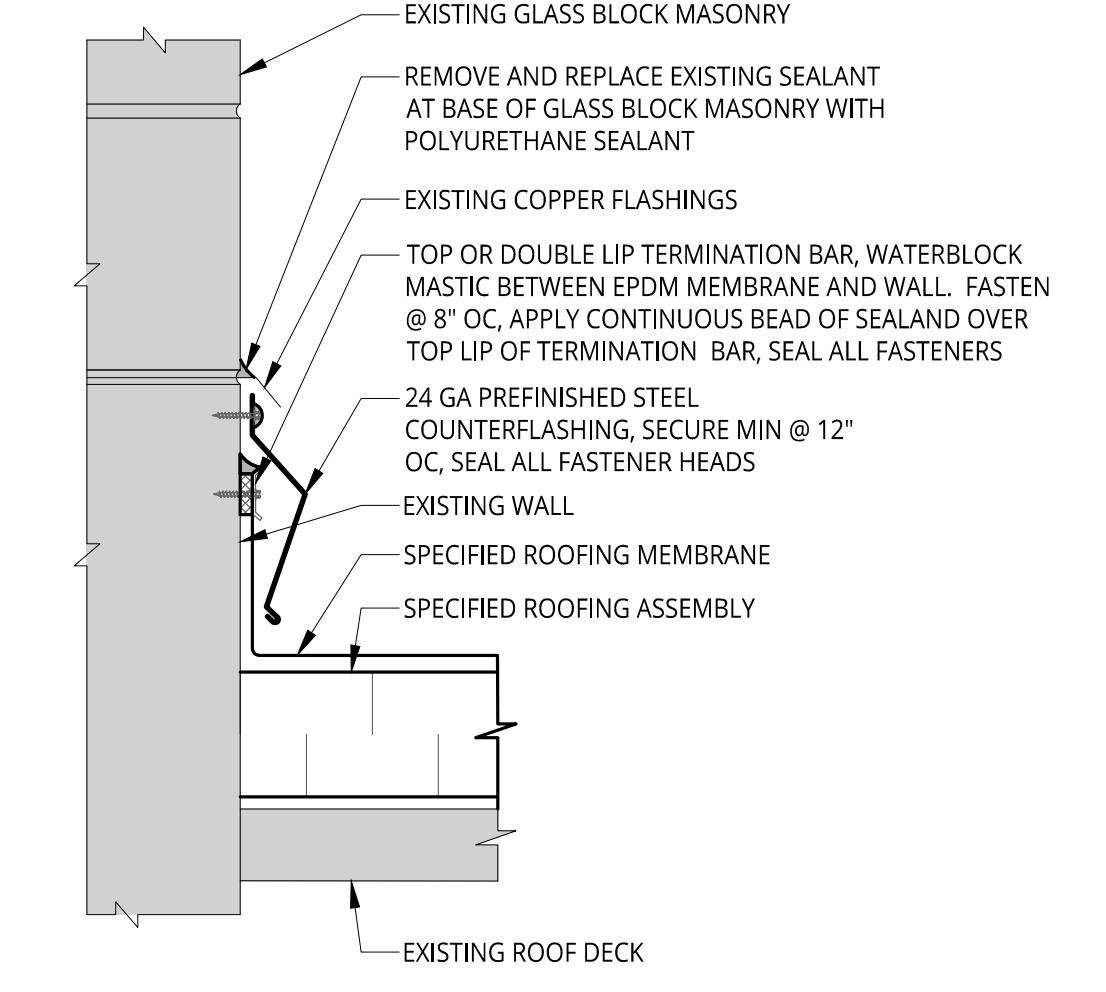
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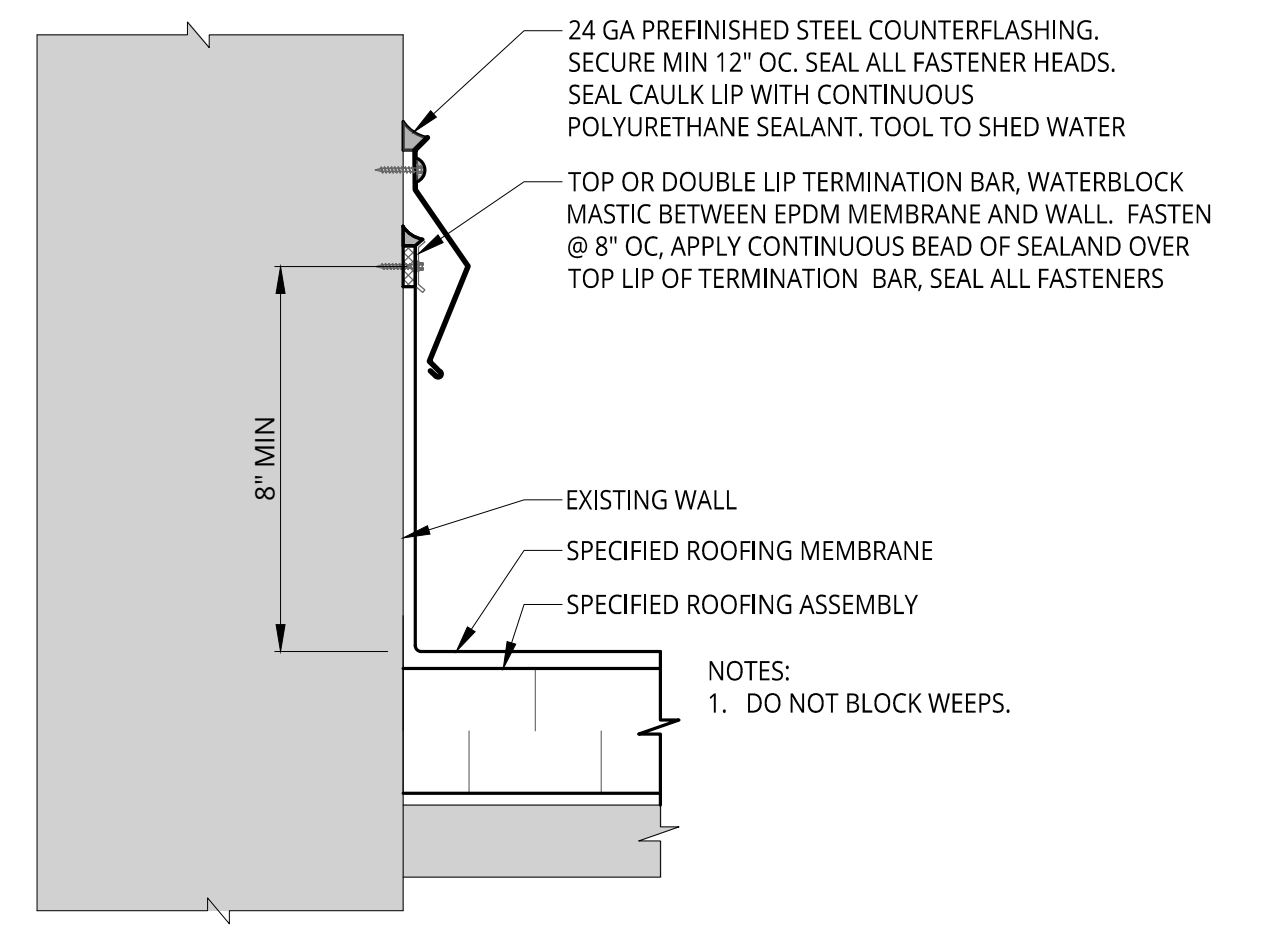
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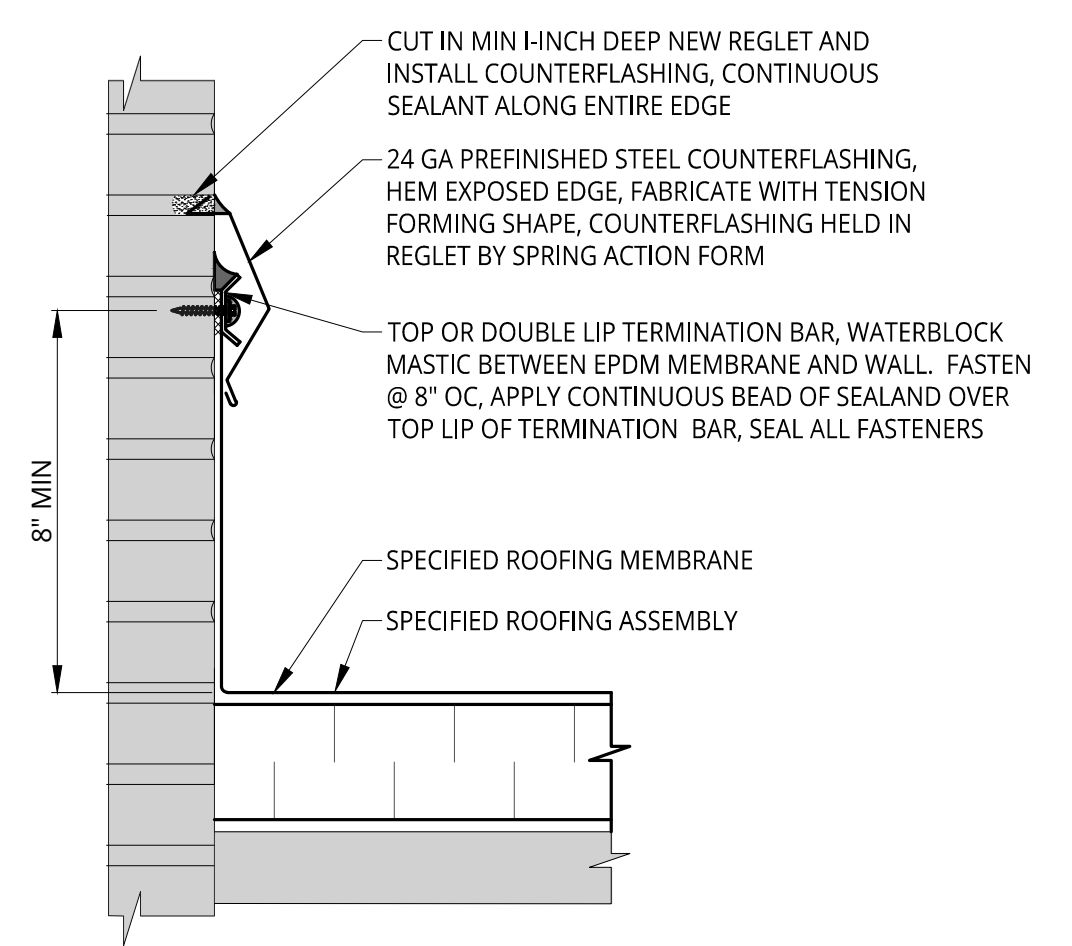
8 COUNTERFLASHING AT METAL PANEL
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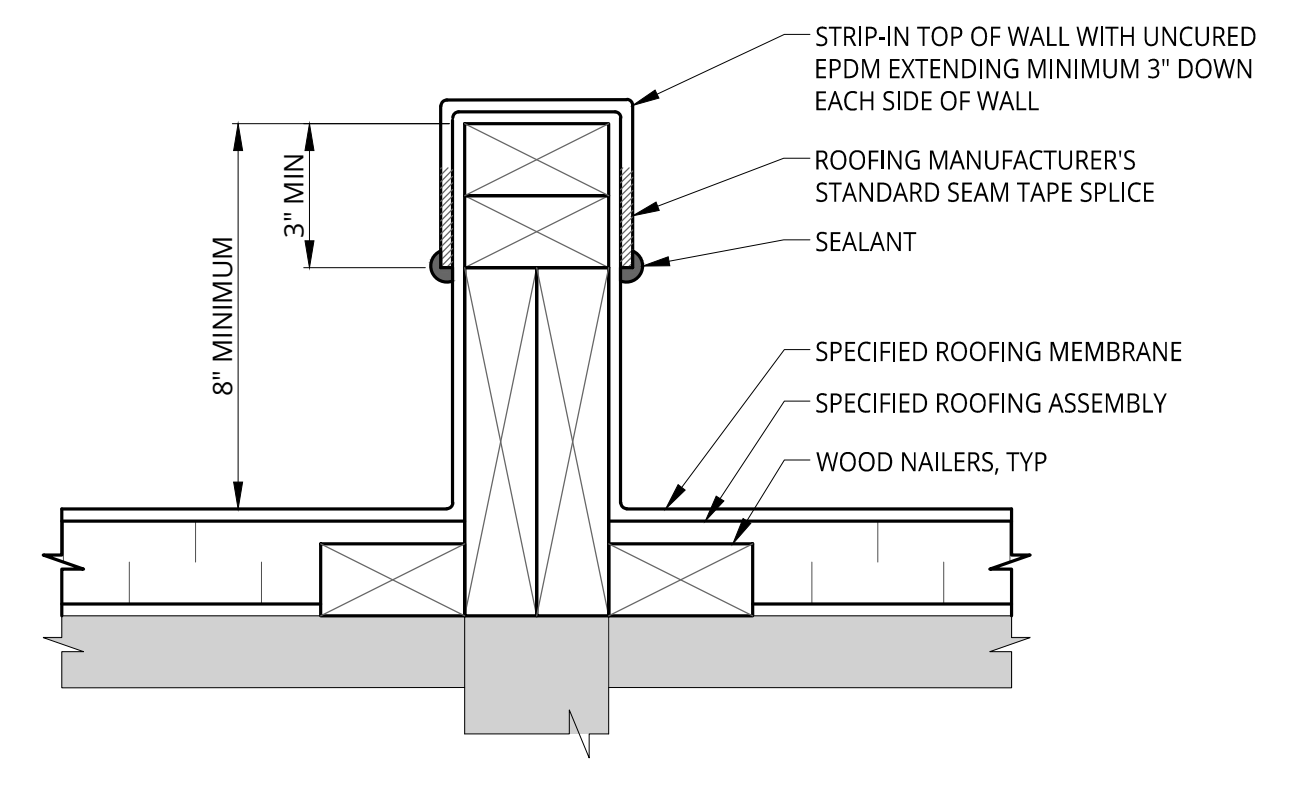
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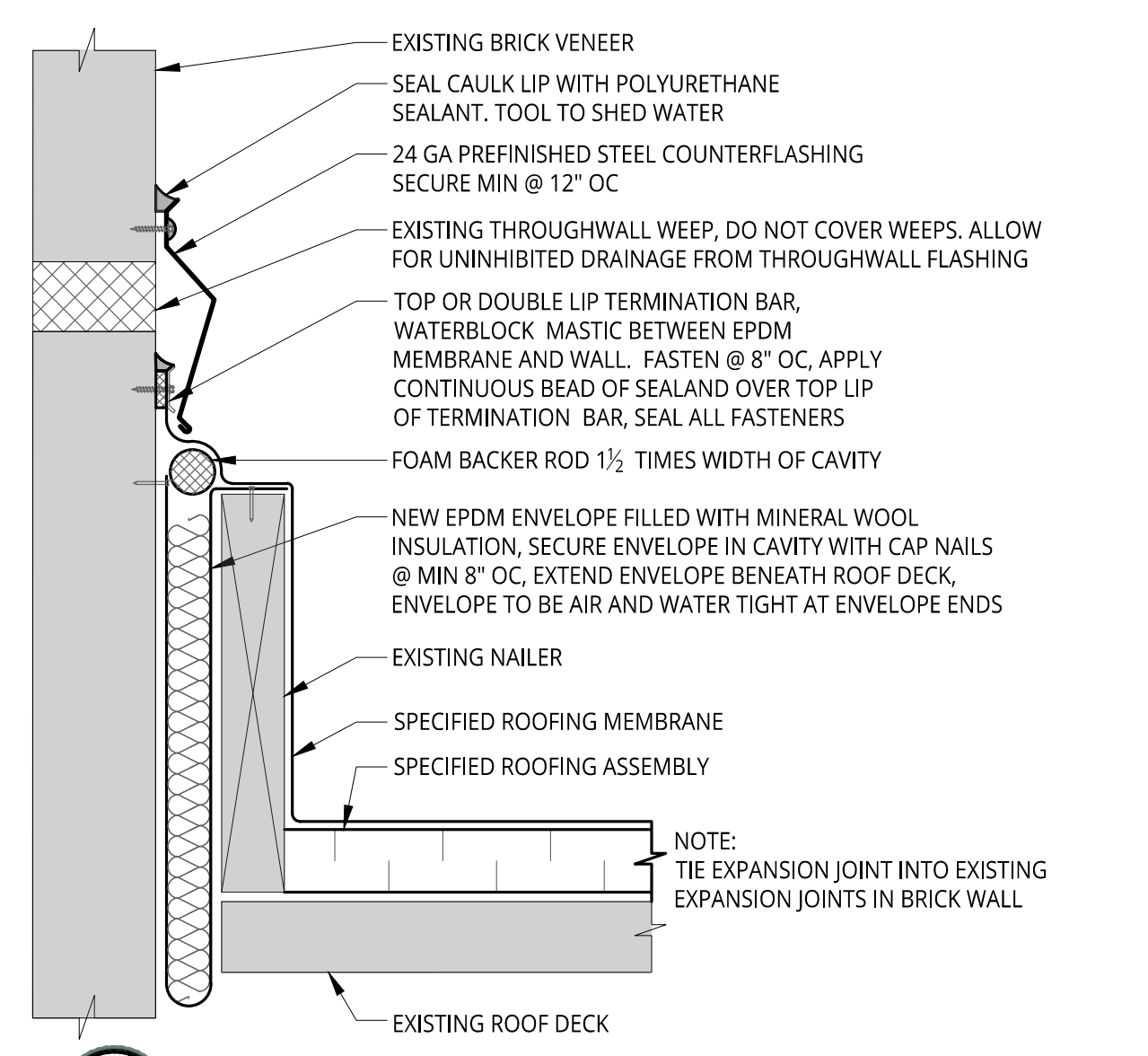
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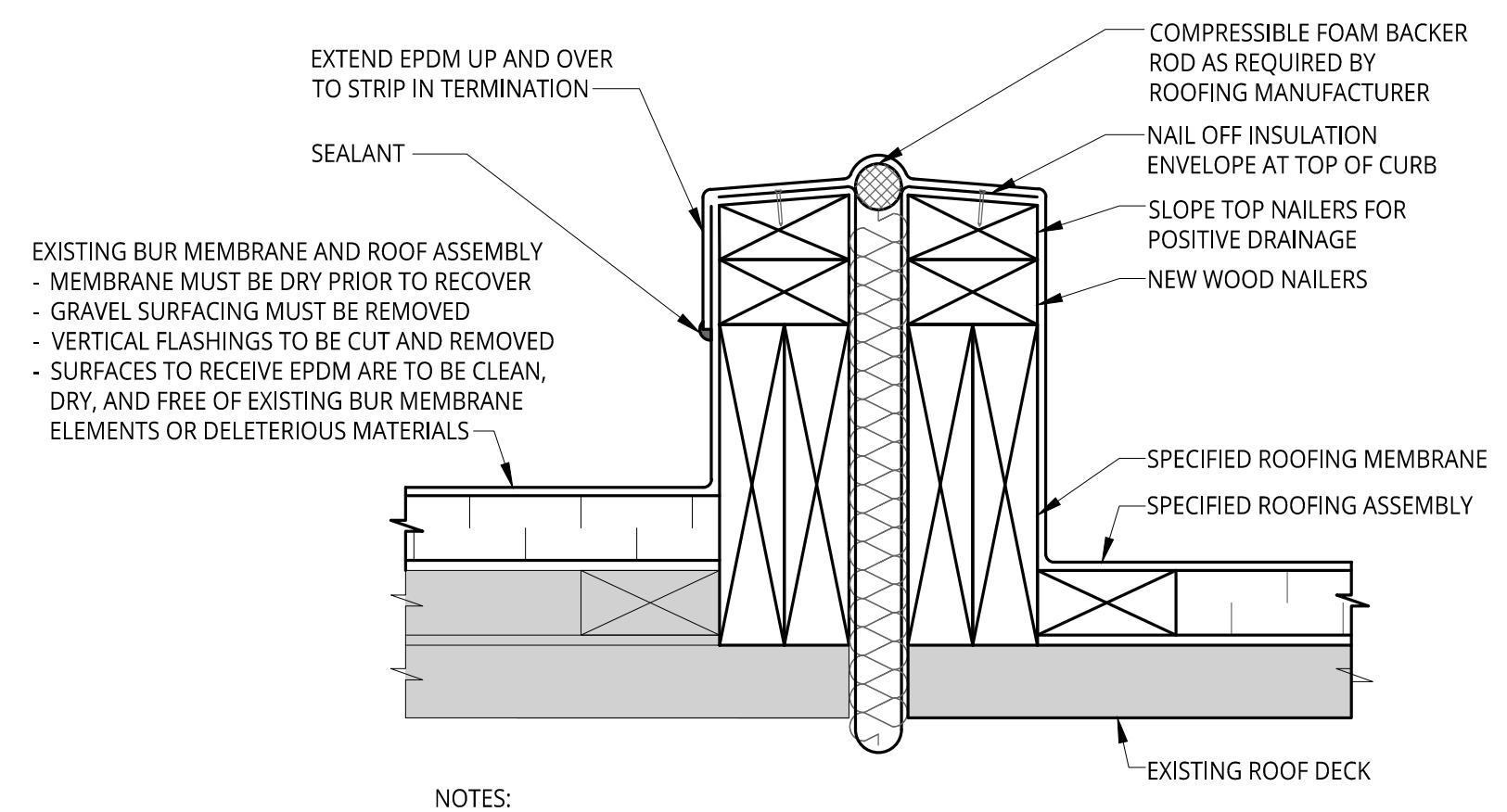
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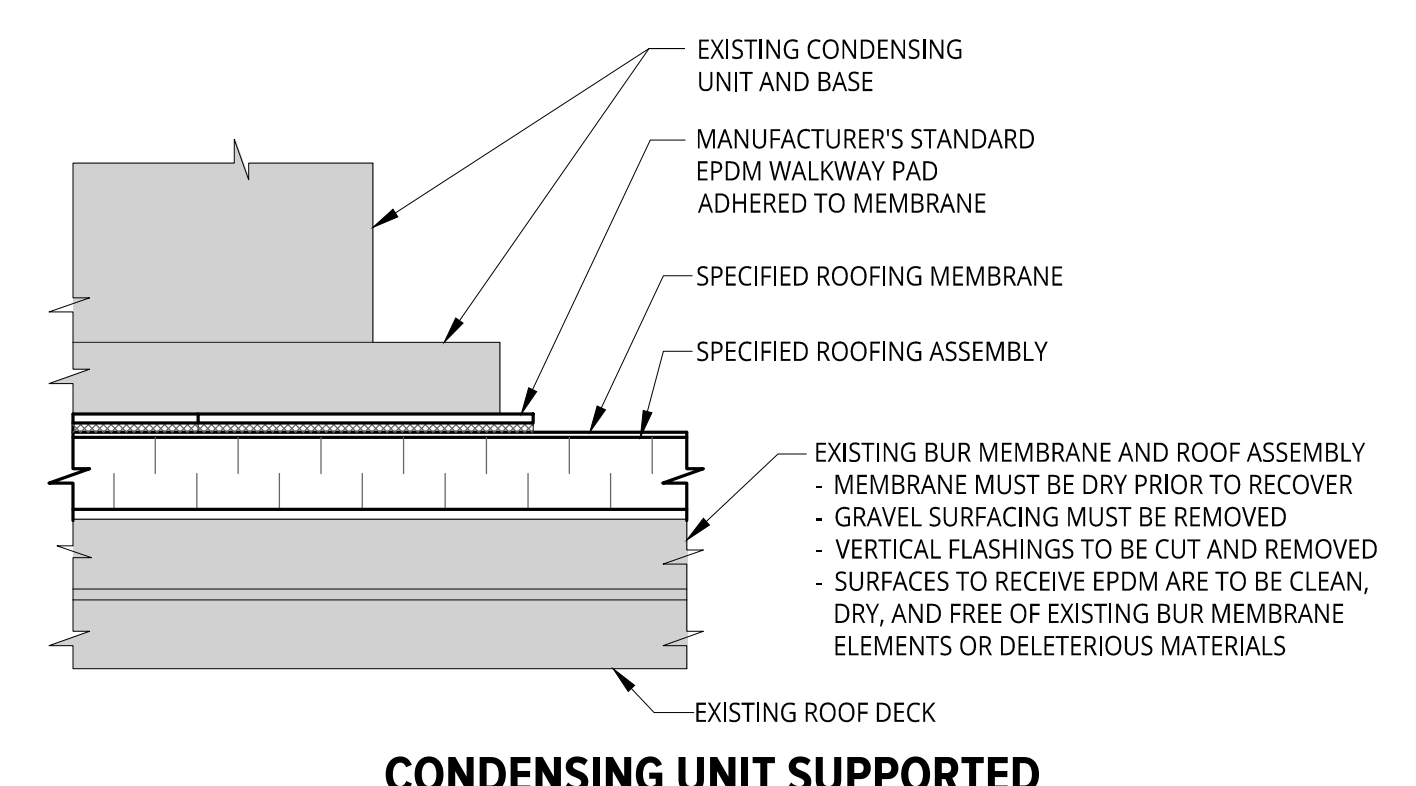
4 KNEE WALL FLASHING
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3 TYPICAL RAISED EXPANSION JOINT
A1.1 NOT TO SCALE



2 TYPICAL RAISED EXPANSION JOINT
A1.2 NOT TO SCALE



1 CONDENSING UNIT SUPPORTED BY EPDM WALKWAY PADS
A1.2 NOT TO SCALE

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

Orientation	Scale
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Project
2023 WATERFORD SCHOOL DISTRICT CRARY CAMPUS ROOFING REPLACEMENT

Project Location
501 N. CASS LAKE RD., WATERFORD TWP., MI 48328

Sheet Name
FLASHING DETAILS

Seal

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Revisions

REV	ISSUED FOR	DATE	BY
	FOR BIDS	3-9-23	KD

SME Project No.
090588.03

Project Manager:
KD

Designer:
KD

CADD:
GUS

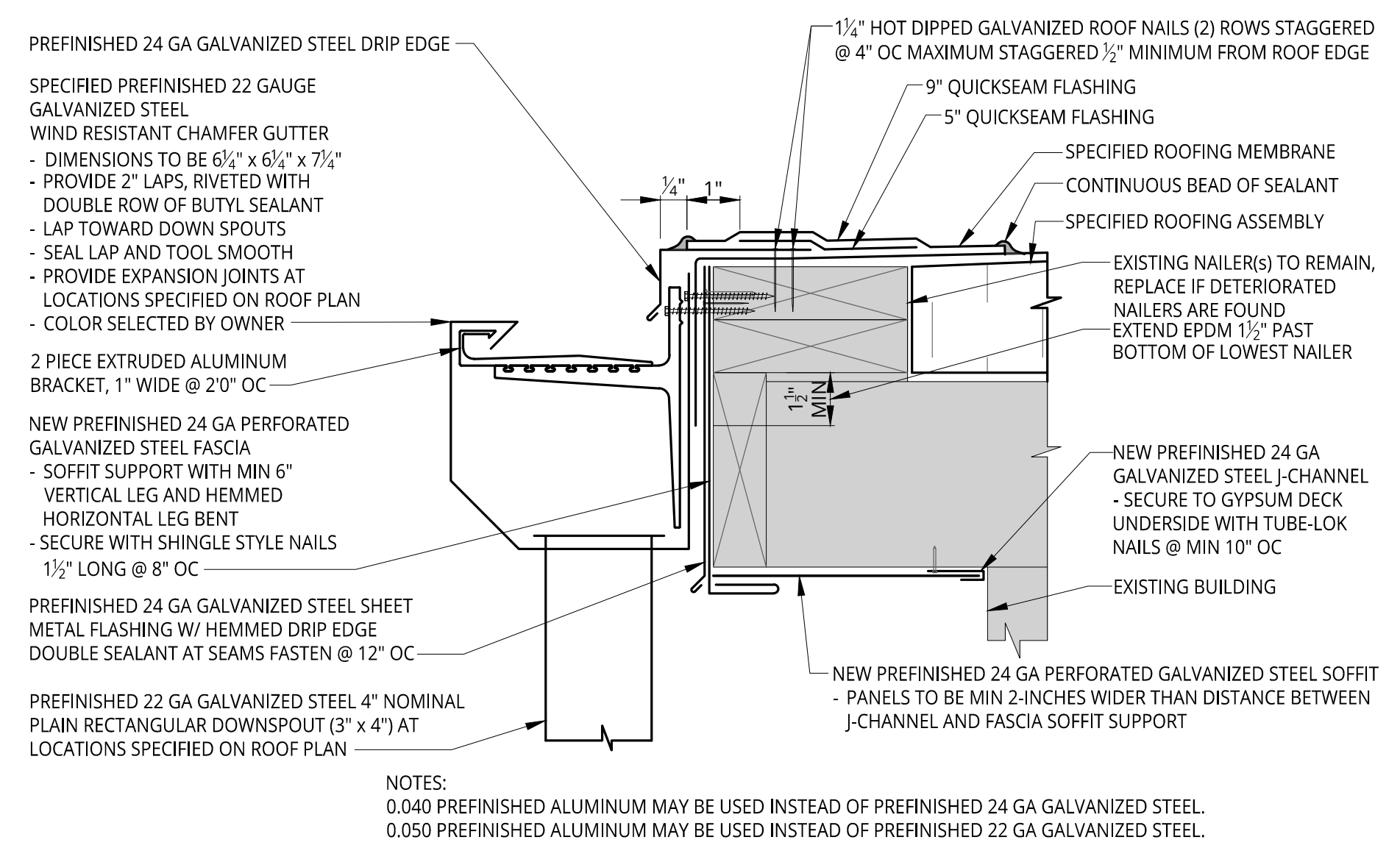
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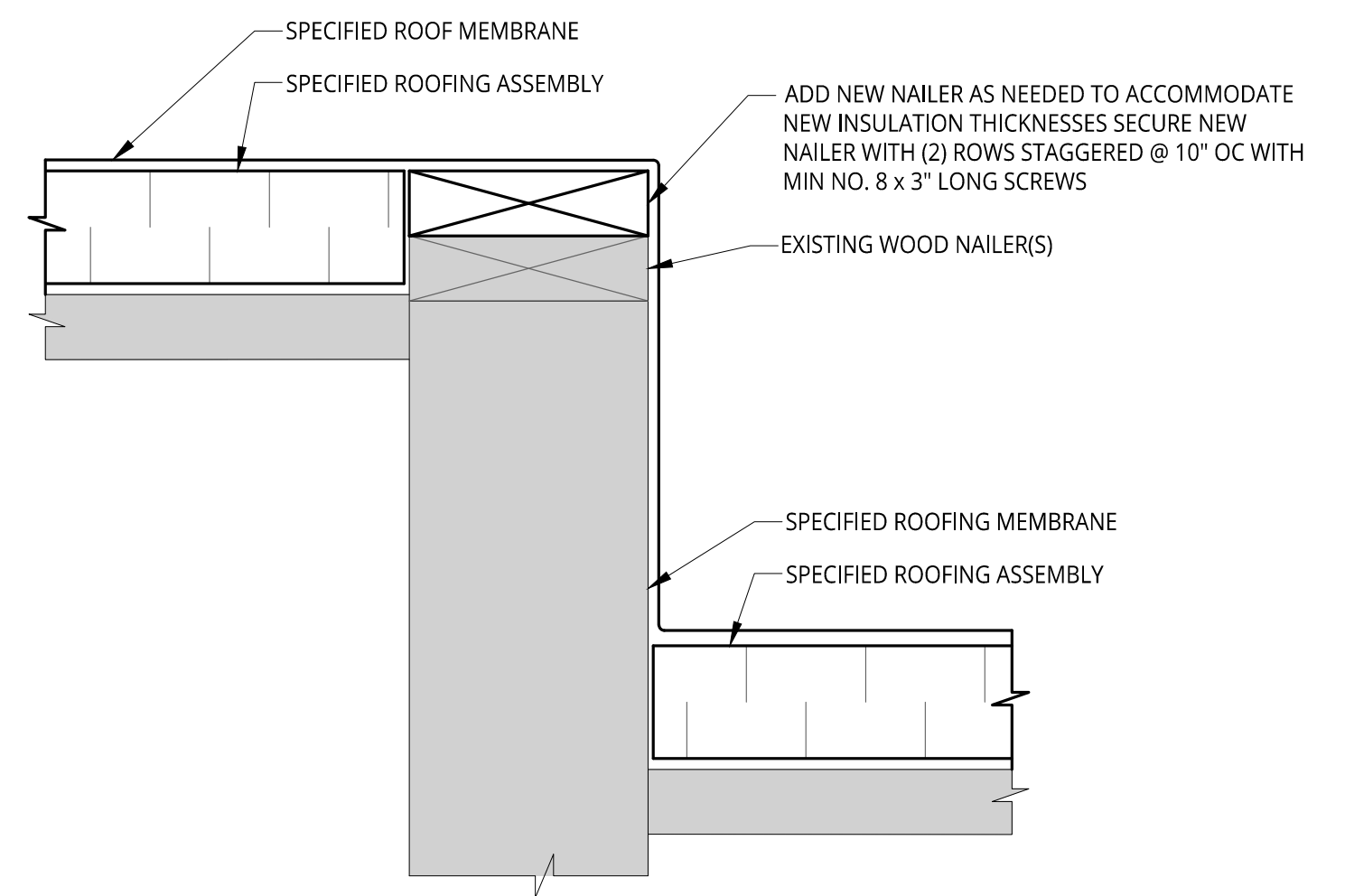
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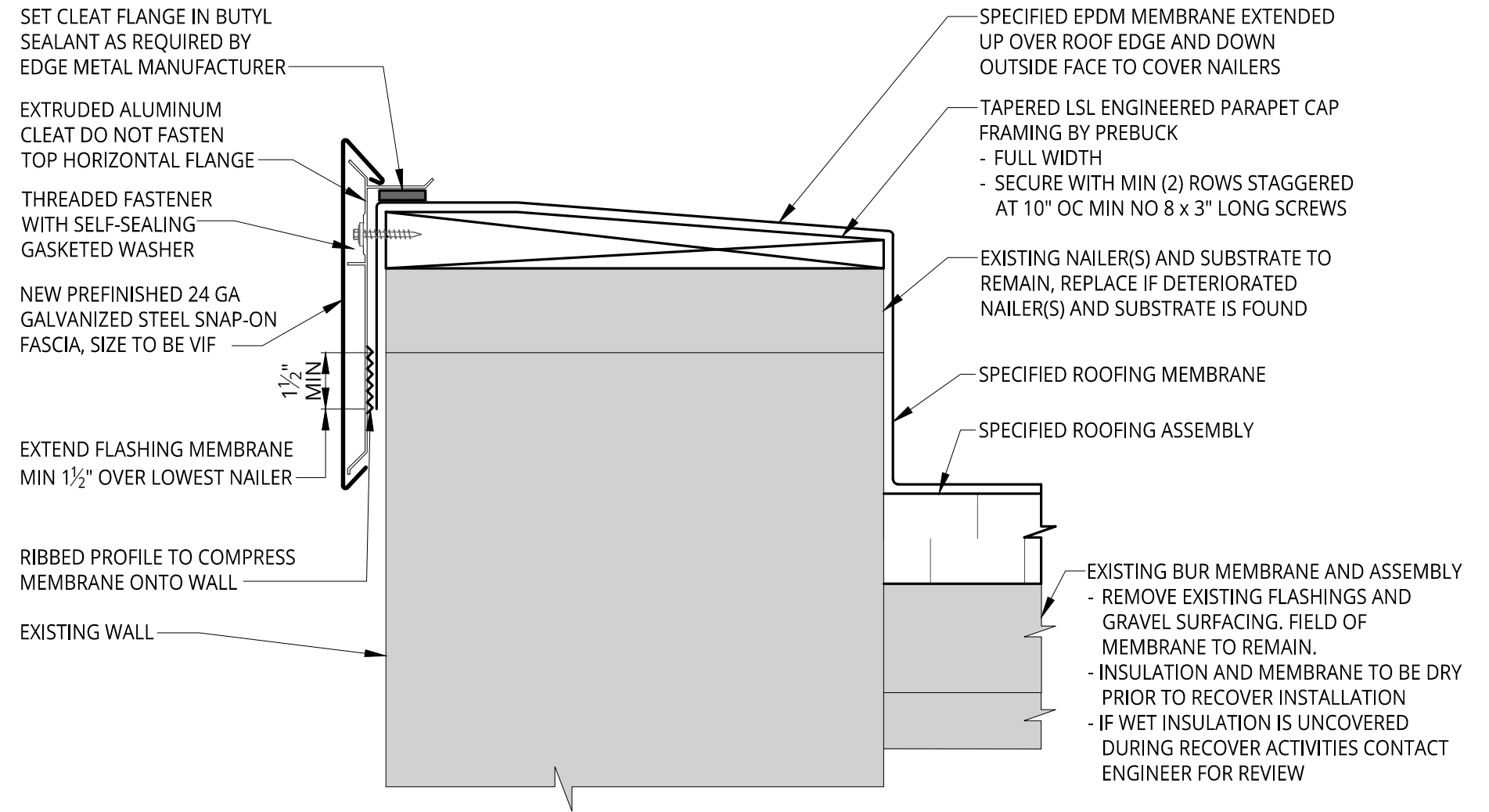
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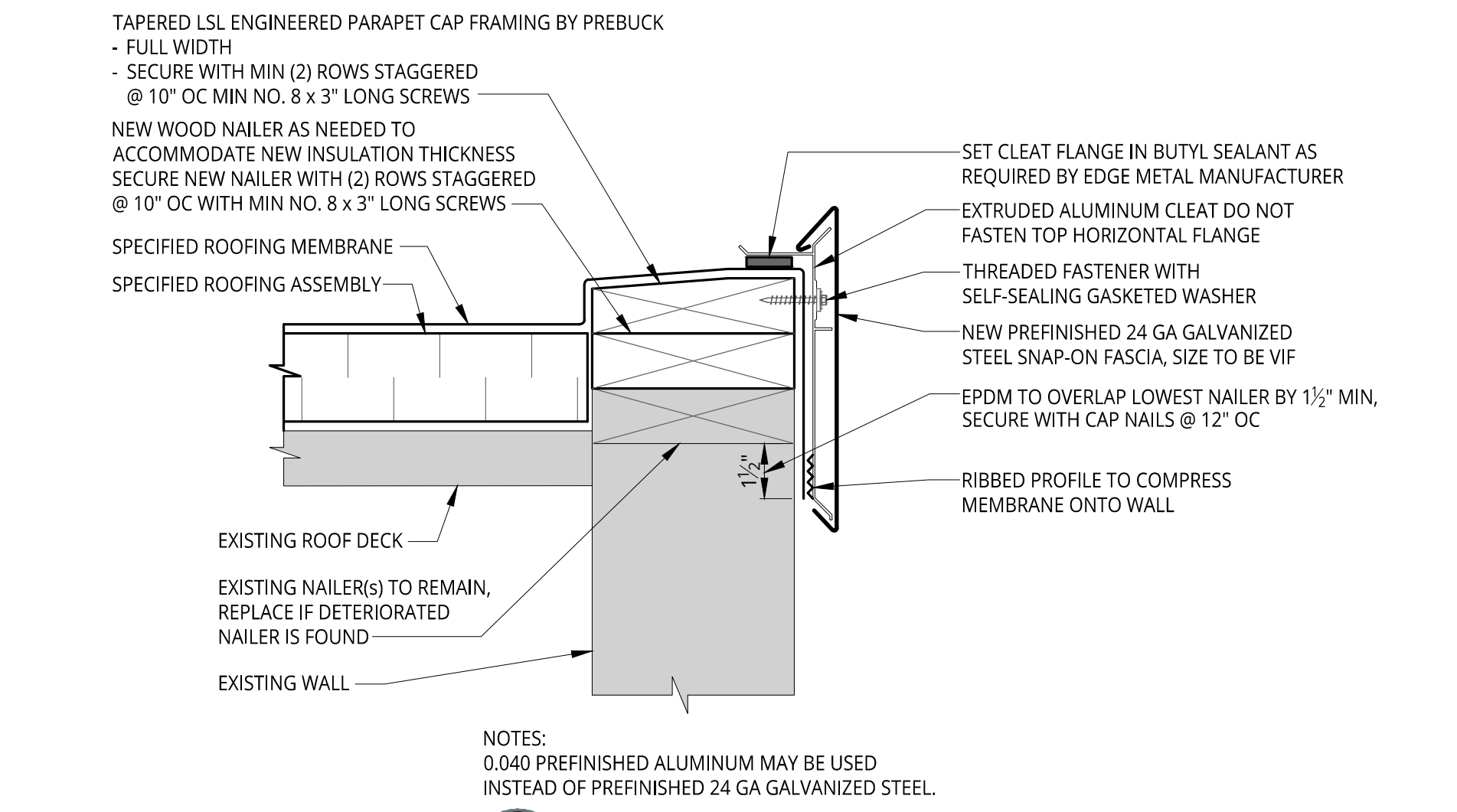
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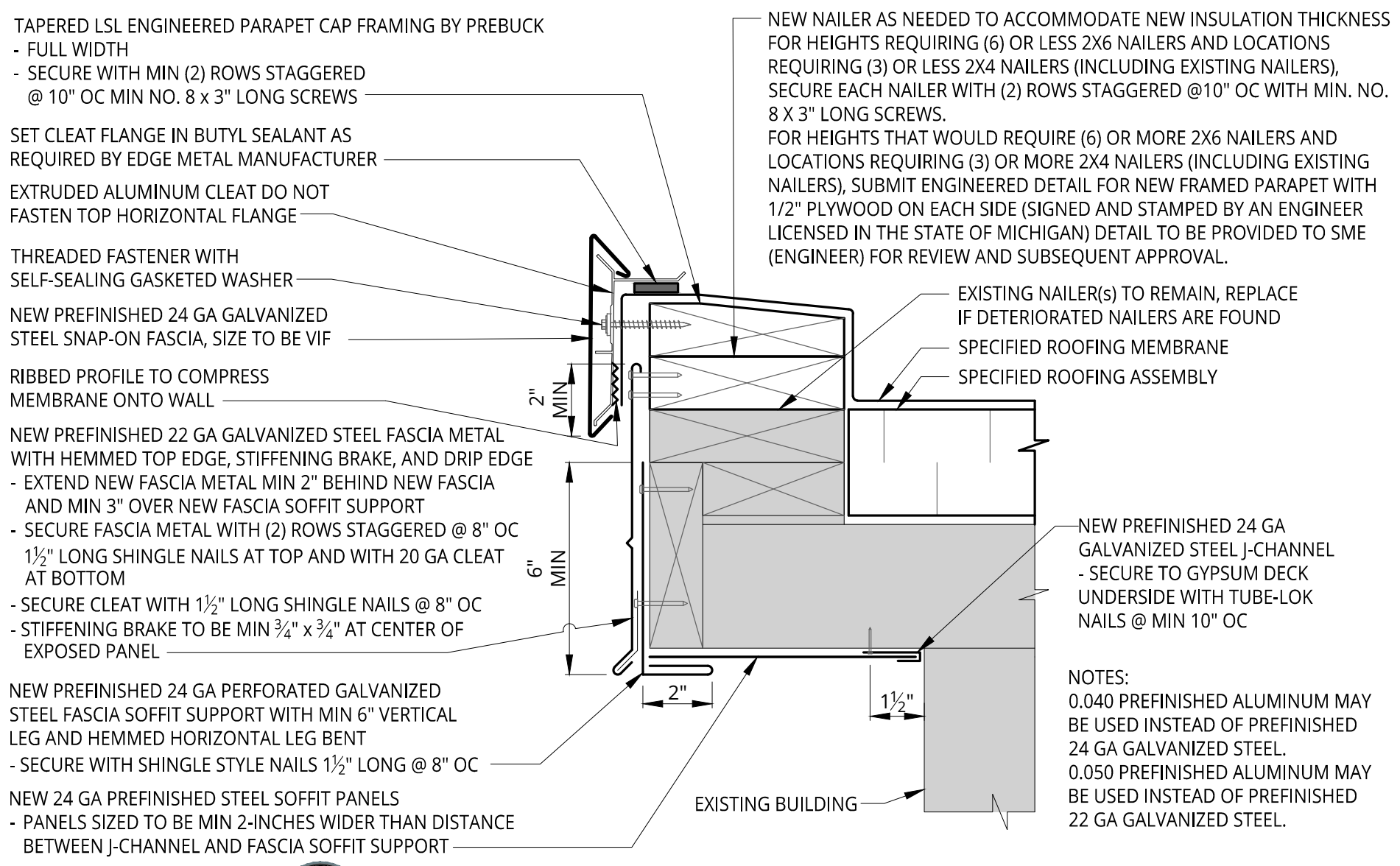
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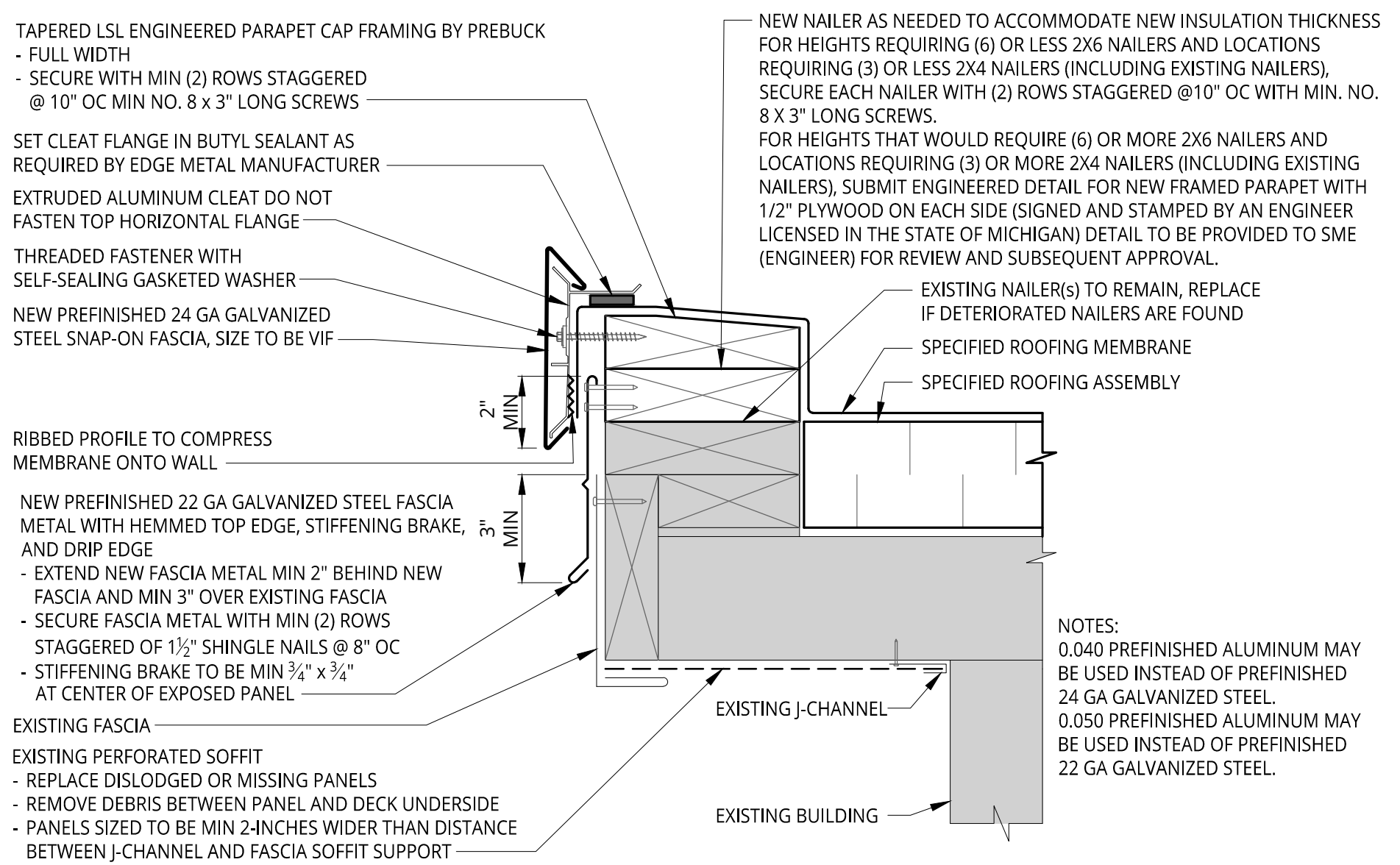
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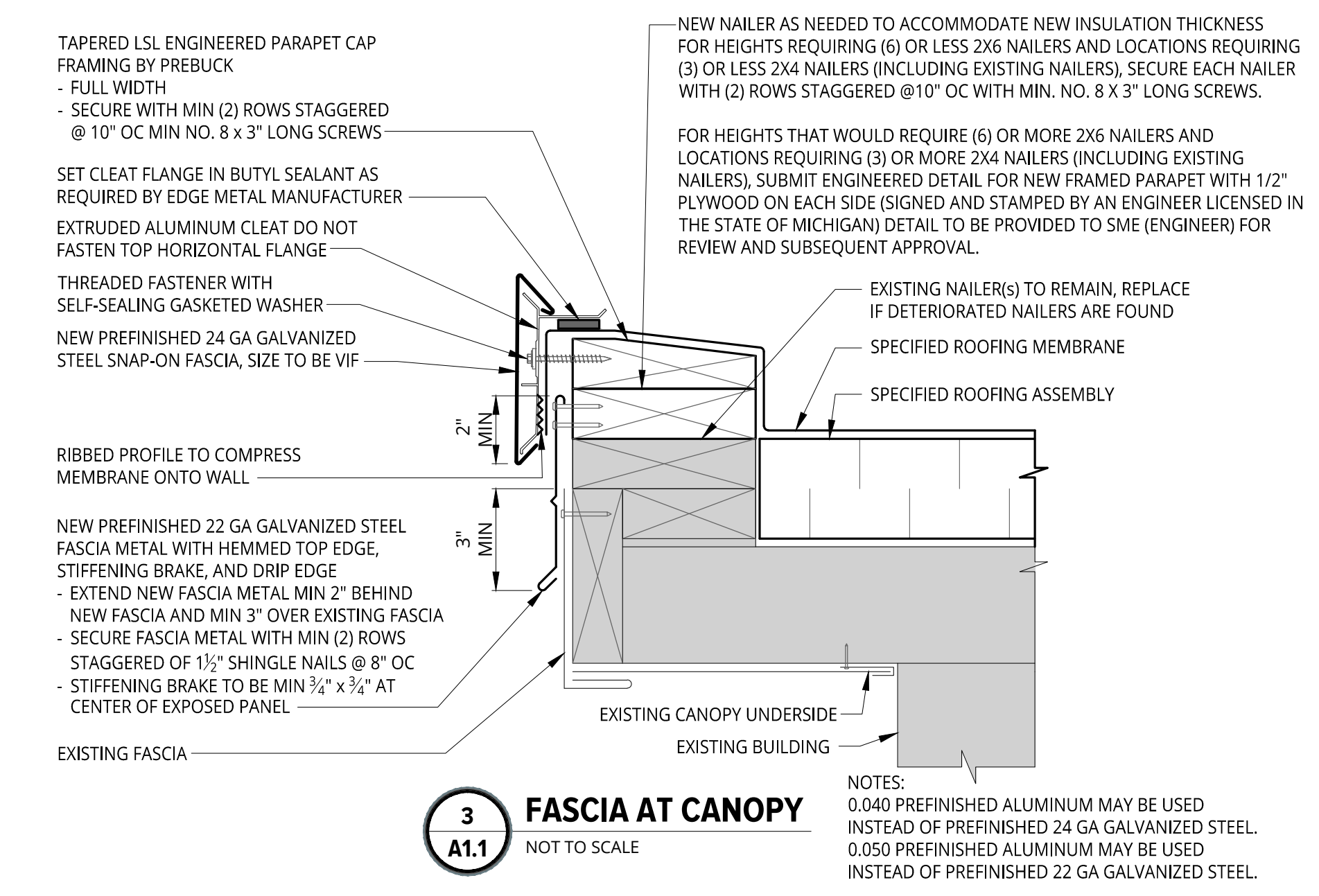
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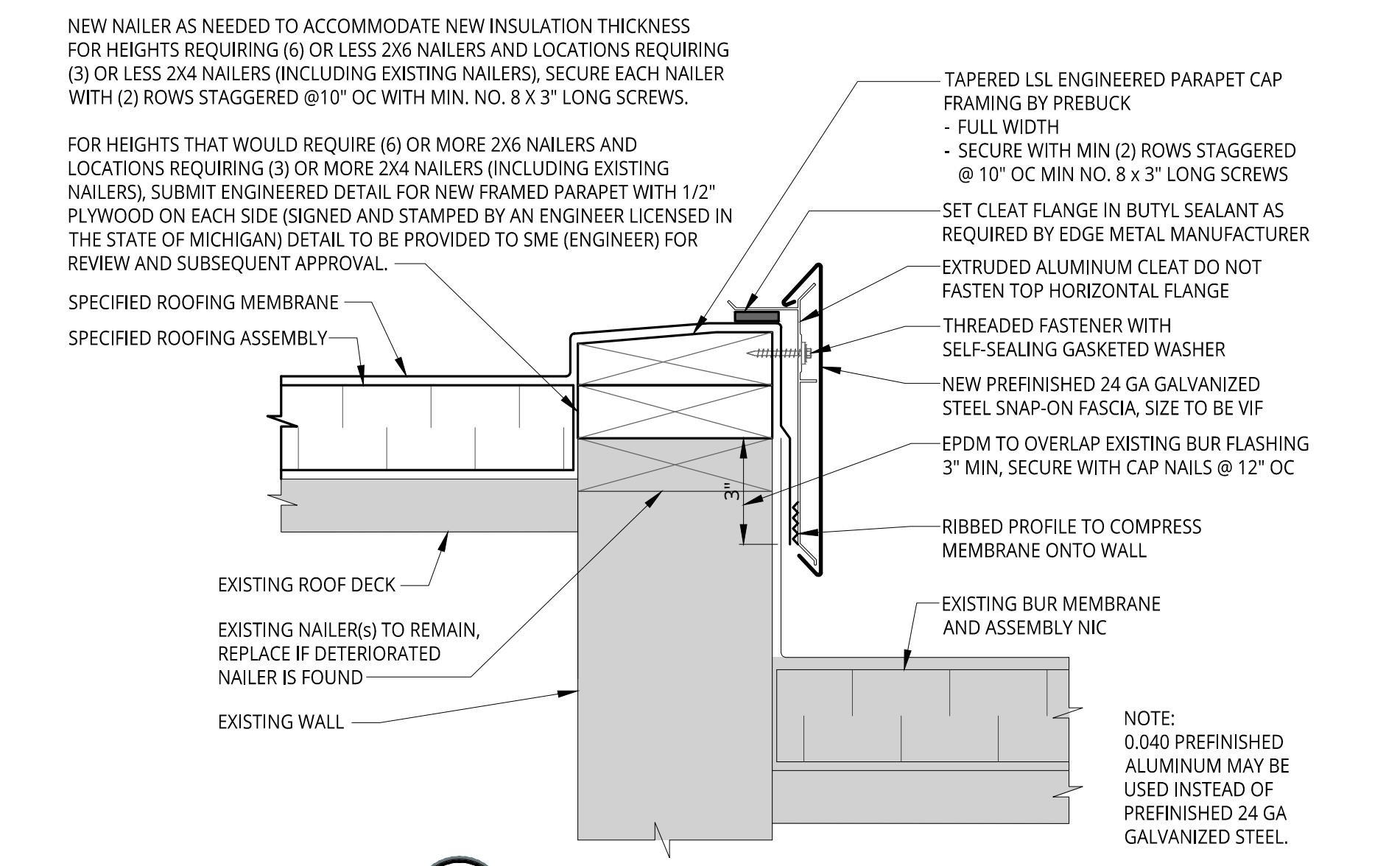
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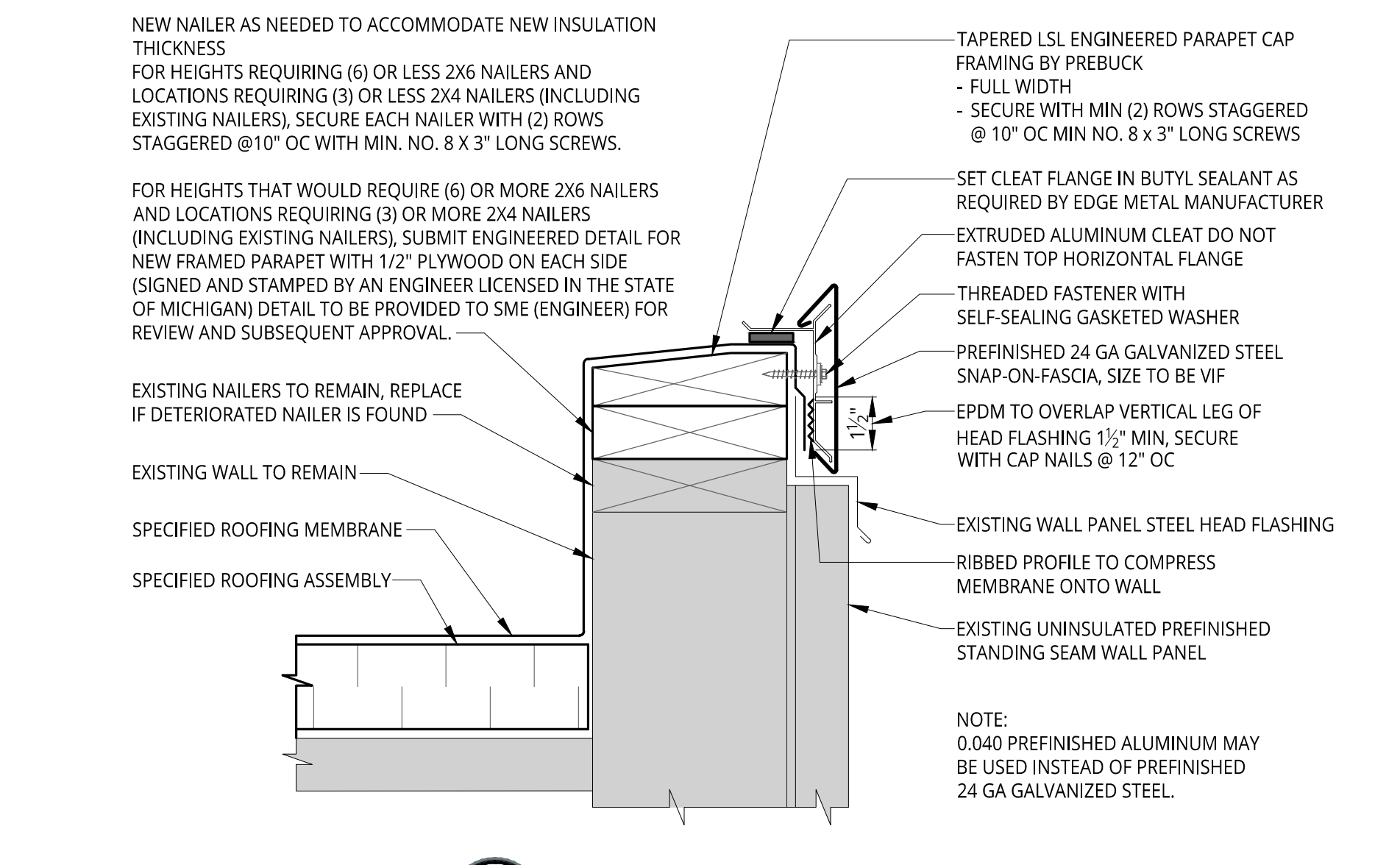
4 PERIMETER FASCIA WITH SOFFIT REPAIR
 A1.0 NOT TO SCALE



3 FASCIA AT CANOPY
 A1.1 NOT TO SCALE



2 EDGE METAL AT BUR TRANSITION
 A1.1 NOT TO SCALE



1 FASCIA AT METAL PANEL
 A1.2 NOT TO SCALE

Mar 08, 2023 - 9:00am - gus.kurd@... FILE LOCATION: \\sme-inc\p\WP\090588.03\CAD\Design Files\MAT\Rev1\090588.03-DETAILS.dwg