

# 2025 Waterford School District

# Kettering High School Roofing Replacement

## 2800 Kettering Drive

## Waterford Twp., Michigan 48329



Project  
**2025 WATERFORD SCHOOL DISTRICT  
KETTERING HIGH SCHOOL  
ROOFING REPLACEMENT**

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

Engineer's Seal

Revisions			
REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date  
**02/26/2025**

SME Project No.  
**098209.01**

Project Manager:  
**K. DAMEROW**

Designer:  
**T. ACORD**

CADD:  
**J. NICHOLAS**

Checked By:  
**K. DAMEROW**

Reviewed By:  
**A. CASSIDY**

Sheet Name:  
**COVER SHEET**

Sheet No.  
**G0.1**

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 THE  
© 2025

### GENERAL NOTES:

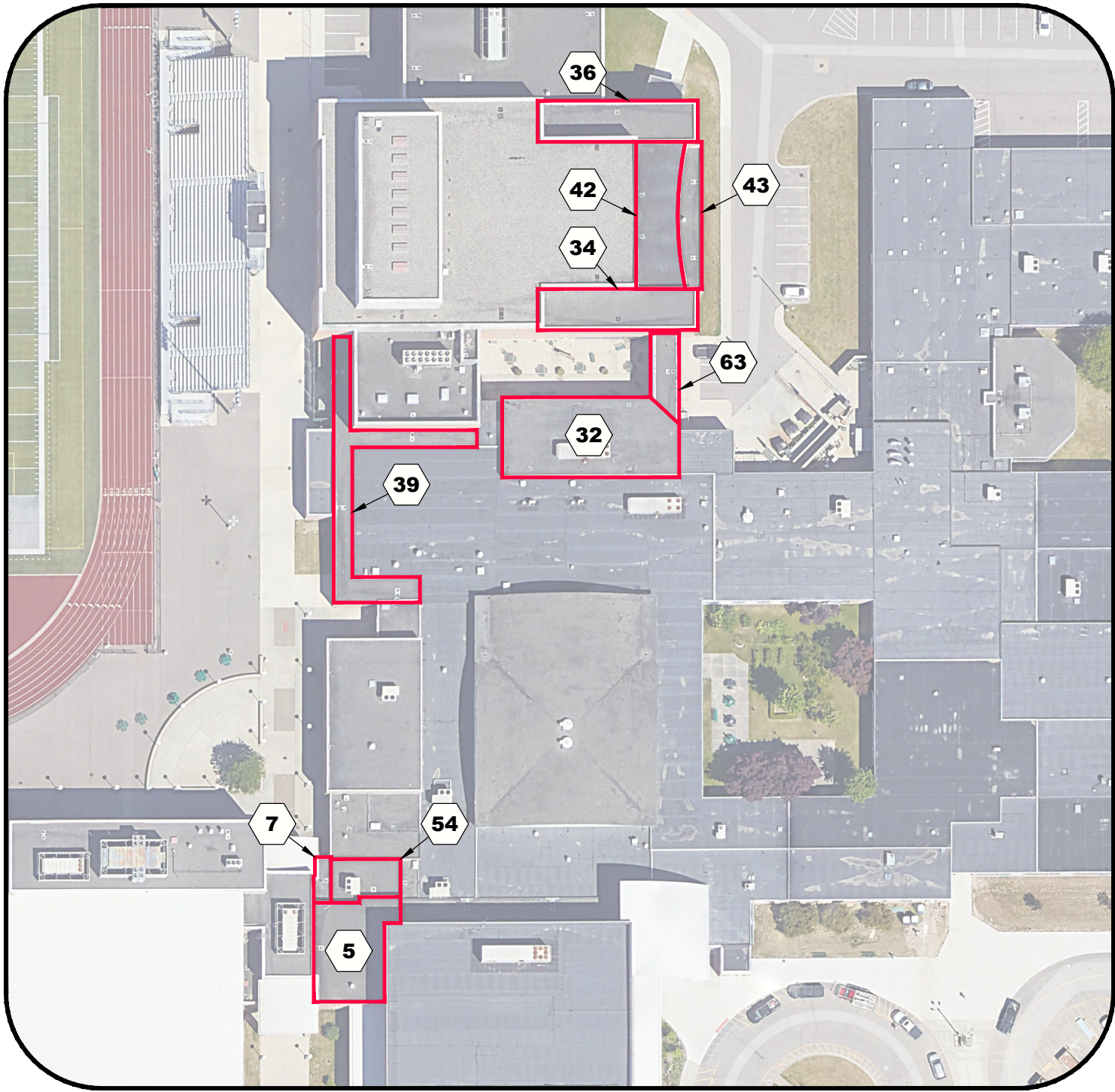
1. THE SUMMARY OF WORK CONTAINED IN THESE NOTES AND SHOWN ON THE PLANS MAY NOT INCLUDE ALL ITEMS AND ACTIVITIES NECESSARY TO COMPLETE THE WORK. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE DRAWINGS, TAKE MEASURES REASONABLY NECESSARY TO PROVIDE THE DESIRED WORK RESULT AND TO COMPLETE THE WORK AT NO ADDITIONAL 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 ADVICE/MENT.
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. INTERIOR PROTECTION (SUSPENDED PLASTIC SHEETING) IS REQUIRED BENEATH ROOF AREAS 42 AND 43. IT IS THE ROOFING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT INTERIOR OPERATIONS ARE NOT INTERRUPTED AND THAT INTERIOR SURFACES AND FINISHES ARE NOT DAMAGED BY ROOFING REPLACEMENT OPERATIONS BENEATH EACH ROOF AREA. FOLLOWING ROOFING REPLACEMENT, REMOVE PLASTIC SHEETING AND CLEAN INTERIOR SURFACES TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO OWNER.
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.
4. ADD WOOD BLOCKING ON CURBS AND PERIMETERS TO ACCOMMODATE NEW INSULATION HEIGHTS.
  - A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE NUMBER OF NAILERS REQUIRED AT CURBS 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, AND INSTALL NEW DRAINS AT NO ADDITIONAL COST TO THE OWNER. IN-PLACE SYSTEMS SHALL ACCOMMODATE NEW INSULATION THICKNESSES AND MEET WARRANTY REQUIREMENTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER.
6. 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.
7. 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.

### ABBREVIATION INDEX

DIA	DIAMETER
GA	GAUGE
OC	ON CENTER
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD



**OVERALL SITE PLAN**  
NOT TO SCALE



**OVERALL SITE PLAN**  
NOT TO SCALE

### ENGINEER

SME  
43980 PLYMOUTH OAKS BLVD.  
PLYMOUTH, MI 48170

CONTACT: KYLE DAMEROW, PE, RRC  
PHONE: 734.454.9900  
EMAIL: KYLE.DAMEROW@SME-USA.COM

www.sme-usa.com

SME PROJECT NO. 098209.01

### OWNER / CLIENT

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

OWNER REPRESENTATIVE : MR. SIDNEY TIPPETT  
PHONE: 248-674-3193  
EMAIL: TIPPE01@WSDMI.ORG

### APPLICABLE CODES

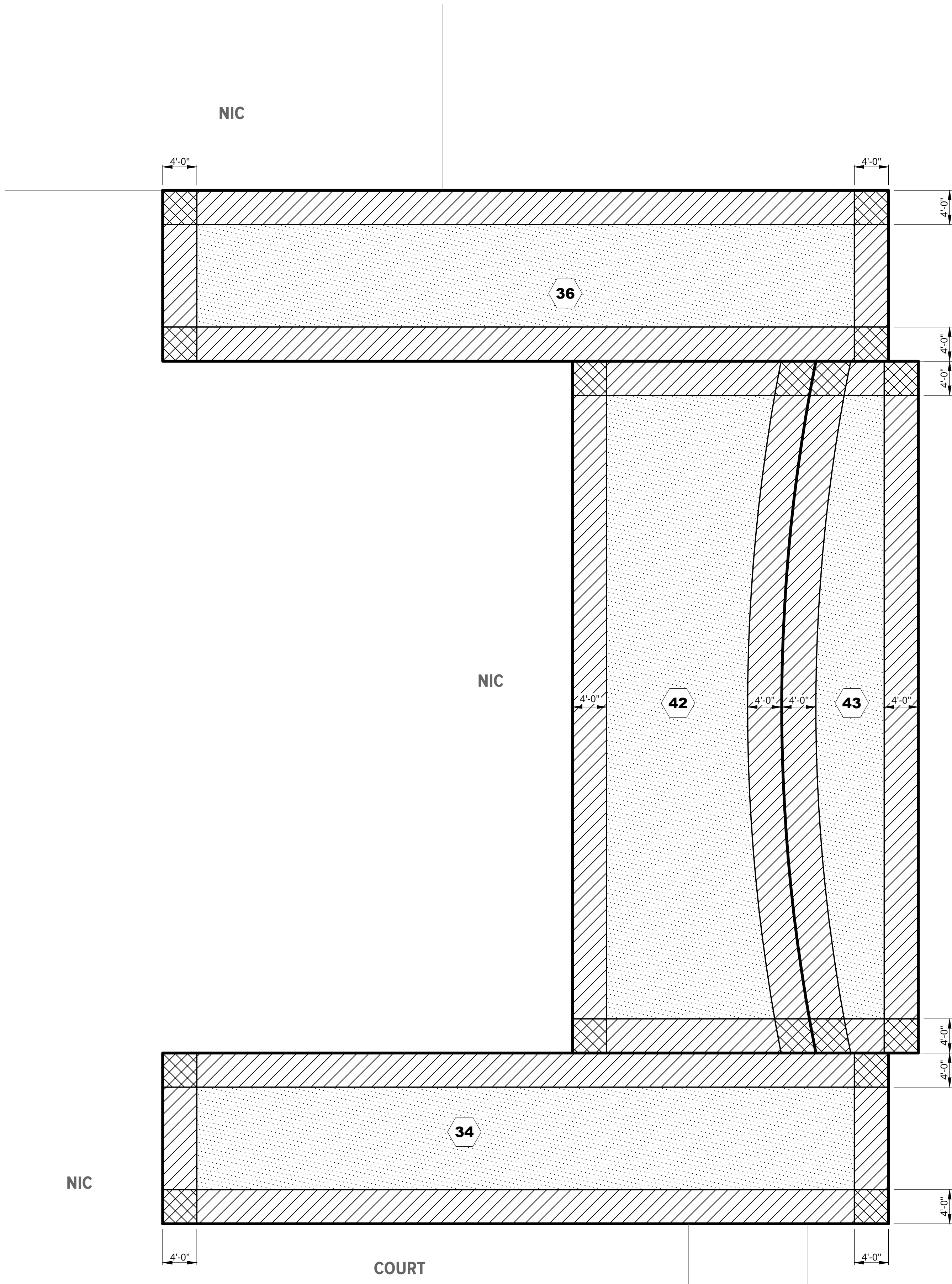
2015 MICHIGAN REHAB CODE

### LIST OF DRAWINGS

SHEET No.	SHEET TITLE
G0.1	COVER SHEET
G1.1	ROOF WIND DESIGN LOADING/ZONE PLAN AREAS 34, 36, 42, AND 43
G1.2	ROOF WIND DESIGN LOADING/ZONE PLAN AREAS 32 AND 63
G1.3	ROOF WIND DESIGN LOADING/ZONE PLAN AREAS 5, 7, 34, AND 39
A1.1	ROOF PLAN AREAS 34, 36, 42, AND 43
A1.2	ROOF PLAN AREAS 32 AND 63
A1.3	ROOF PLAN AREAS 5, 7, 34, AND 39
A4.1	FLASHING DETAILS
A4.2	FLASHING DETAILS

FILE LOCATION: \\sme-hc1p1\MP\098209.01\CAD\Design Files\WATRev01\098209.01-Cover.dwg  
PLOT DATE: Feb 26, 2025 - 10:48am - Jason.Nicholas





 **ROOF WIND DESIGN LOADING / ZONE PLAN AREAS 34, 36, 42, AND 43**  
SCALE: 1/8" = 1'-0"

#### LEGEND

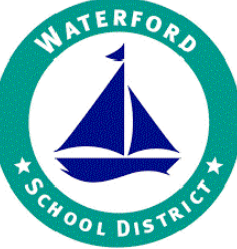
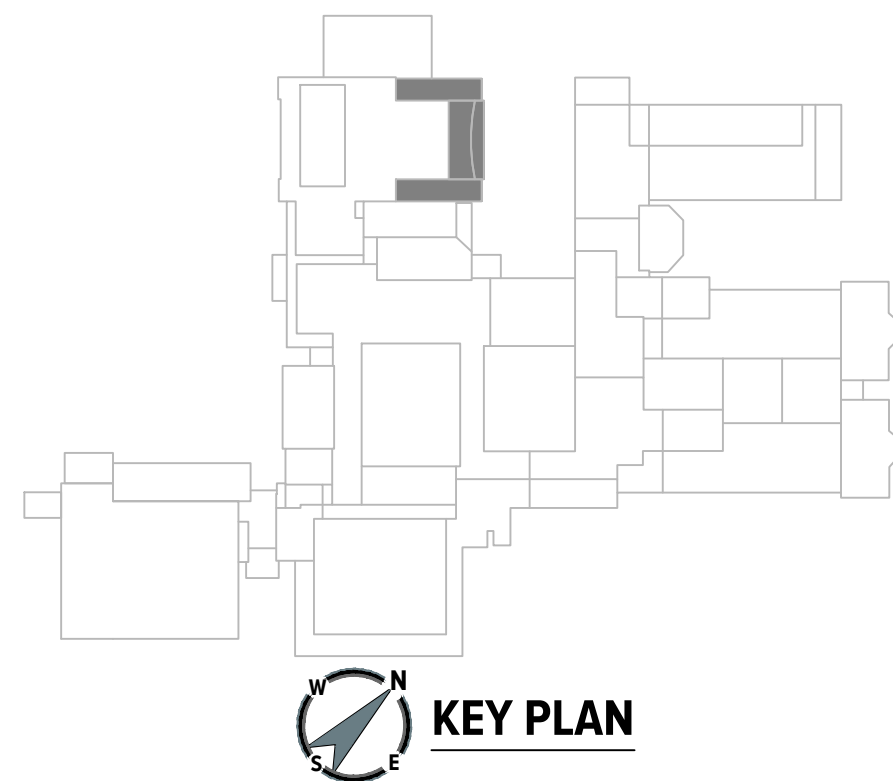
- # ROOF AREA I.D.
- ZONE 1
- ZONE 2
- ZONE 3

**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 (PARTIALLY ENCLOSED) = +/- 0.18

- 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 10FT<sup>2</sup> OR LESS.

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



Project  
**2025 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT**

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

Engineer's Seal

#### Revisions

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date  
**02/26/2025**

SME Project No.  
**098209.01**

Project Manager:  
**K. DAMEROW**

Designer:  
**T. ACORD**

CADD:  
**J. NICHOLAS**

Checked By:  
**K. DAMEROW**

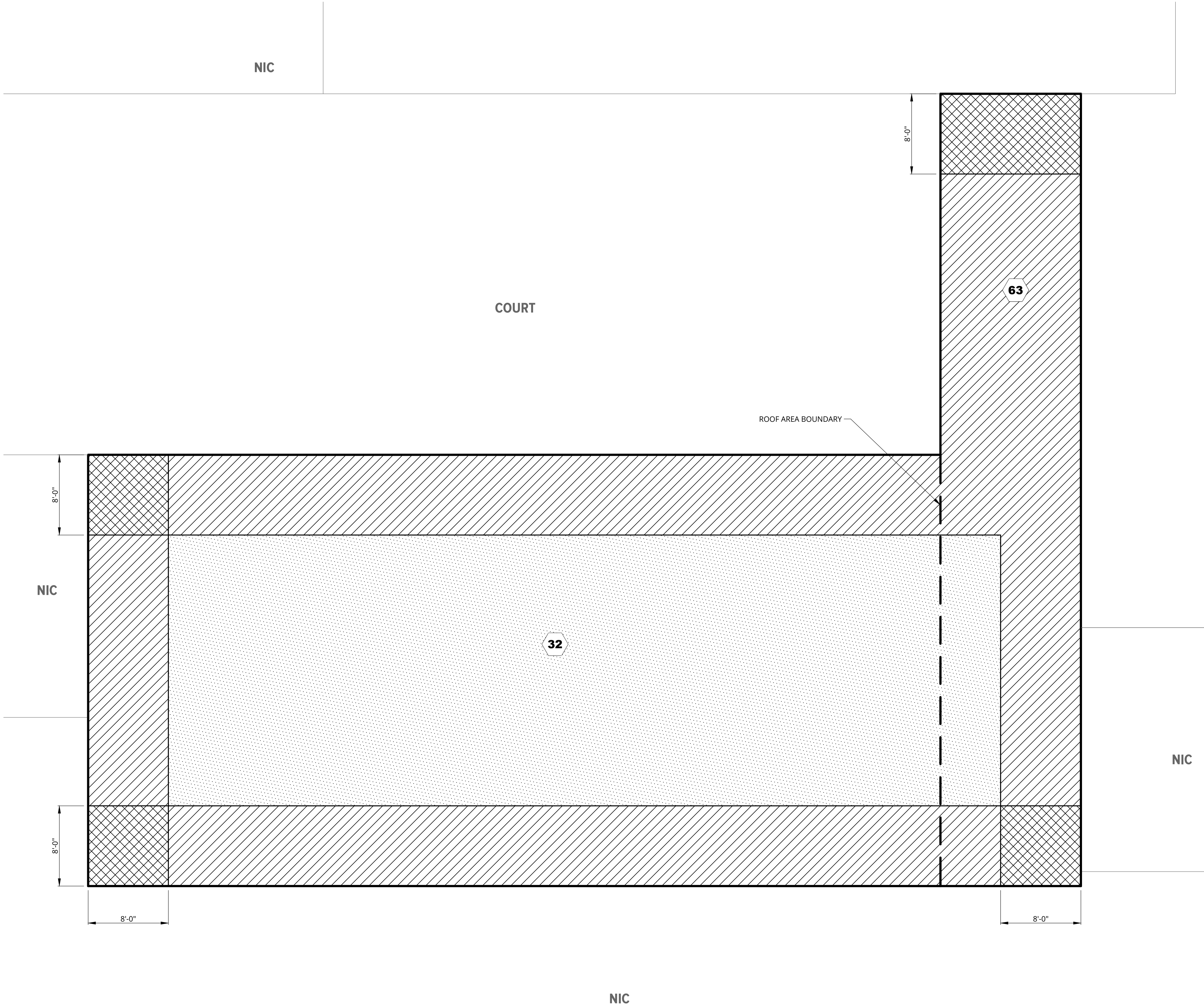
Reviewed By:  
**A. CASSIDY**

Sheet Name:  
**ROOF WIND DESIGN LOADING / ZONE PLAN AREAS 34, 36, 42, AND 43**

Sheet No.  
**G1.1**

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  
© 2025

FILE LOCATION: \\sme-hcpx1\WP\098209.01\CAD\Design Files\MAT\Rev01\Wind Uplift.dwg  
Feb 26, 2025 - 10:52am - Jason.Nicholas  
PLOT DATE:



LEGEND

# ROOF AREA I.D.

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 (PARTIALLY ENCLOSED) = +/- 0.18

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 10FT<sup>2</sup> 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:  
" - # " INDICATES PRESSURE ACTING AWAY FROM THE ROOF SURFACE, I.E. SUCTION



Project  
**2025 WATERFORD SCHOOL DISTRICT  
KETTERING HIGH SCHOOL  
ROOFING REPLACEMENT**

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

Engineer's Seal

Revisions

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date  
**02/26/2025**

SME Project No.  
**098209.01**

Project Manager:  
**K. DAMEROW**

Designer:  
**T. ACORD**

CADD:  
**J. NICHOLAS**

Checked By:  
**K. DAMEROW**

Reviewed By:  
**A. CASSIDY**

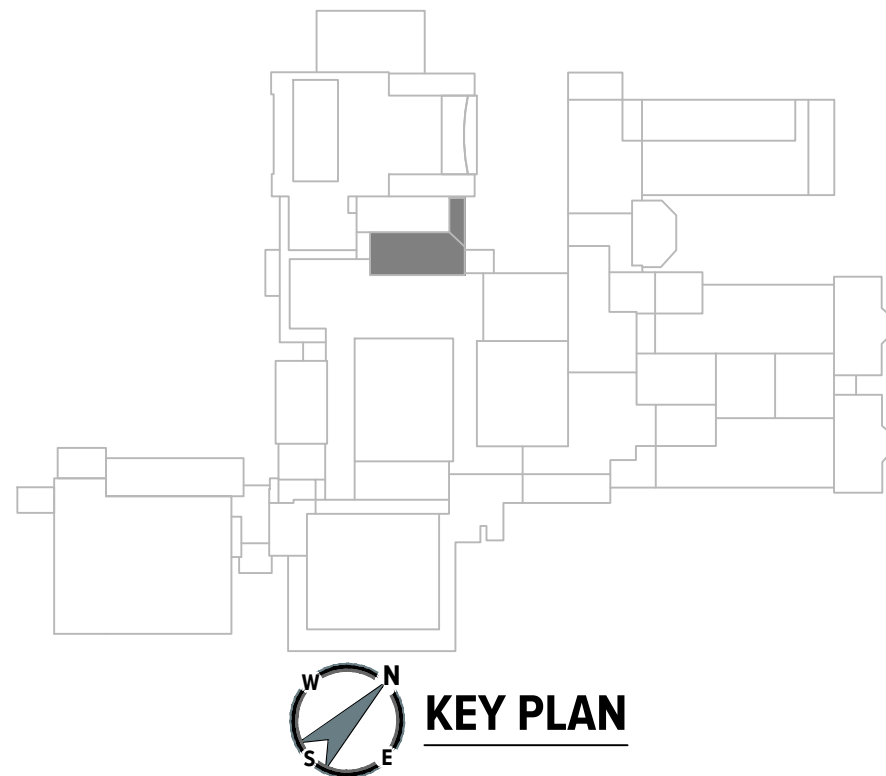
Sheet Name:  
**ROOF WIND DESIGN  
LOADING / ZONE PLAN  
AREAS 32 AND 63**

Sheet No.  
**G1.2**

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  
© 2025



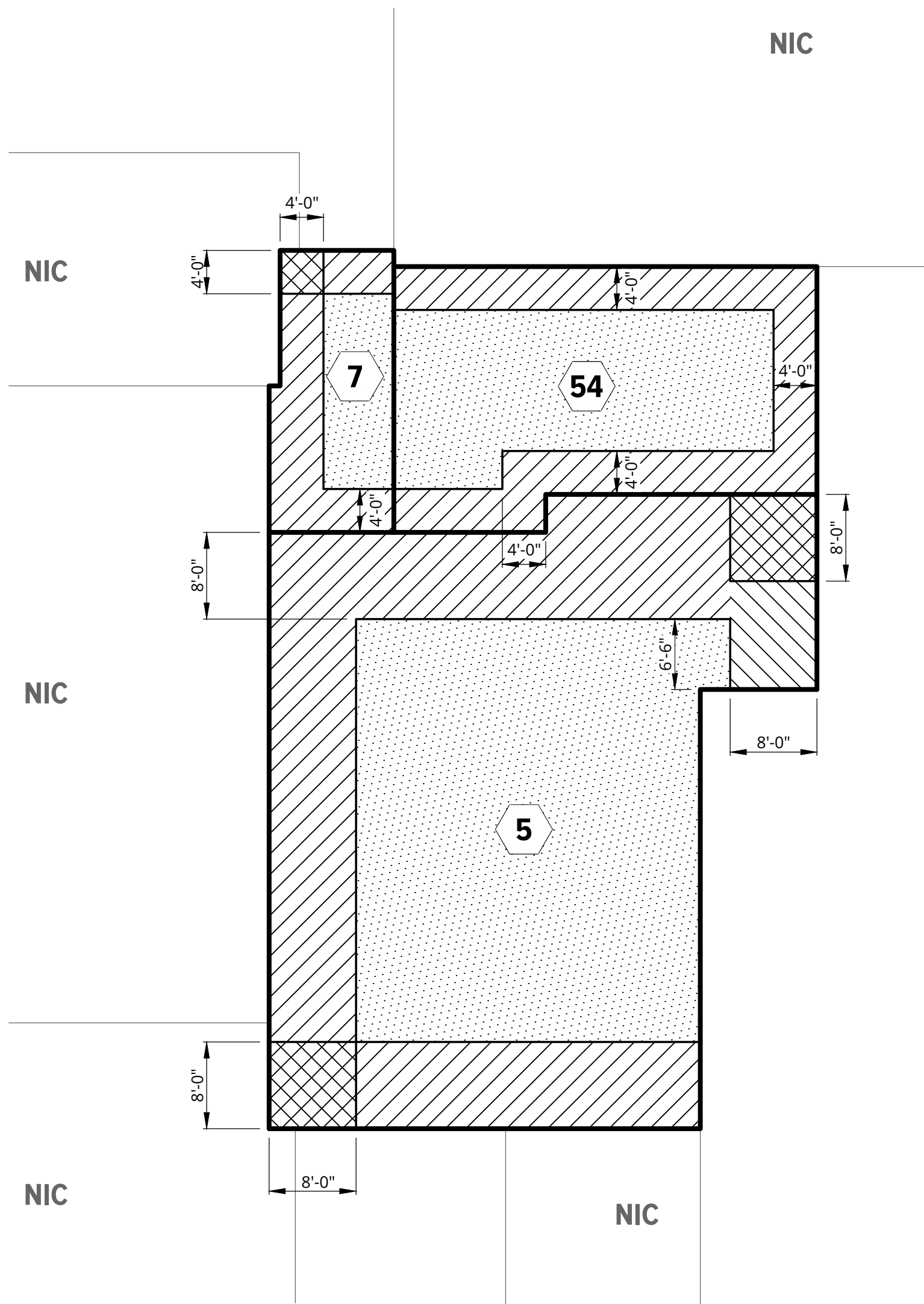
**ROOF WIND DESIGN LOADING / ZONE PLAN AREAS 32 AND 63**  
SCALE: 3/16" = 1'-0"



**KEY PLAN**

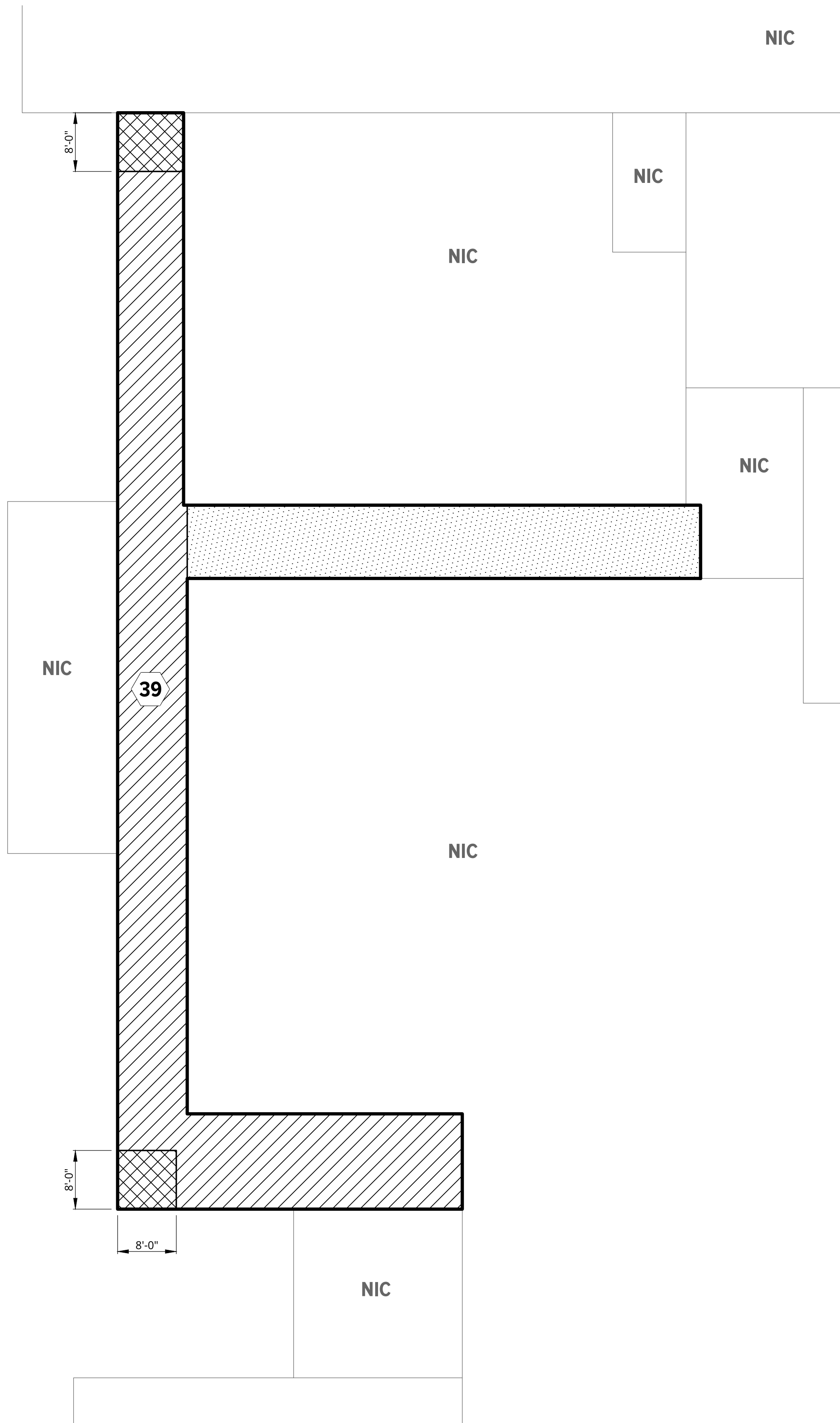
FILE LOCATION: \\sme-hqpx1\MP\098209.01\CAD\Design Files\MAT\Rev-01\Wind Uplift.dwg  
PLOT DATE: Feb 26, 2025 - 10:52am - Jason.Nicholas





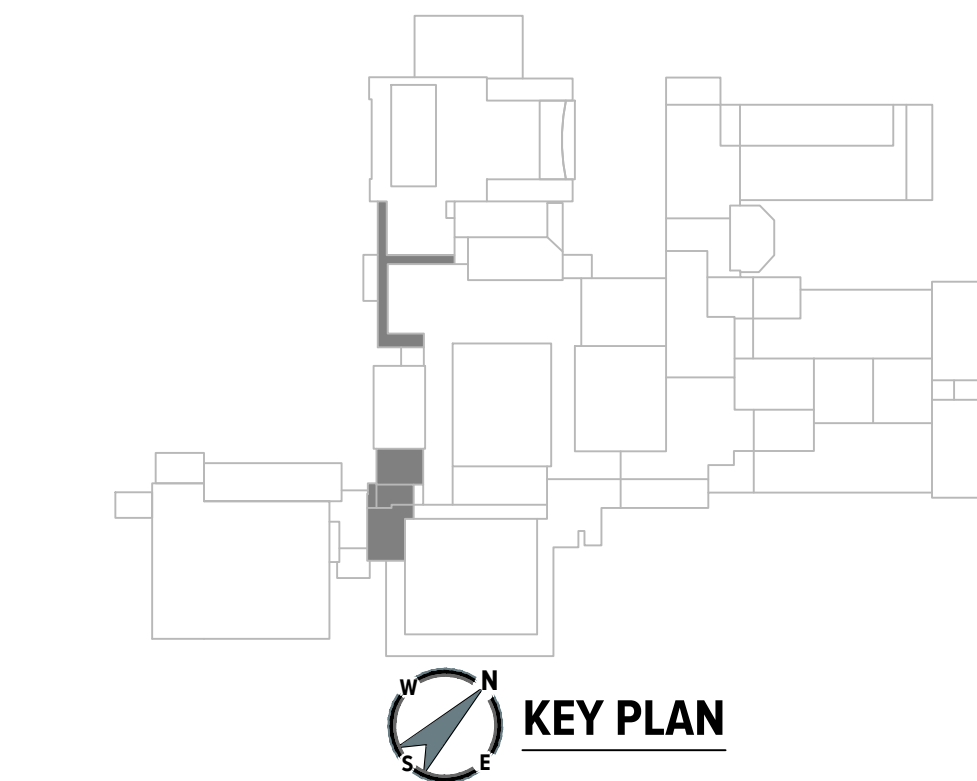
ROOF WIND DESIGN LOADING / ZONE PLAN AREAS 5, 7, AND 54

SCALE: 3/32" = 1'-0"



ROOF WIND DESIGN LOADING / ZONE PLAN AREA 39

SCALE: 3/32" = 1'-0"



KEY PLAN

### LEGEND



ROOF AREA I.D.



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 (PARTIALLY ENCLOSED) = +/- 0.18

#### 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 10FT<sup>2</sup> 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:

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



Project  
**2025 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT**

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

Engineer's Seal

#### Revisions

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date

02/26/2025

SME Project No.

098209.01

Project Manager:

K. DAMEROW

Designer:

T. ACORD

CADD:

J. NICHOLLES

Checked By:

K. DAMEROW

Reviewed By:

A. CASSIDY

Sheet Name:  
**ROOF WIND DESIGN LOADING / ZONE PLAN AREAS 5, 7, 39, AND 54**

Sheet No.

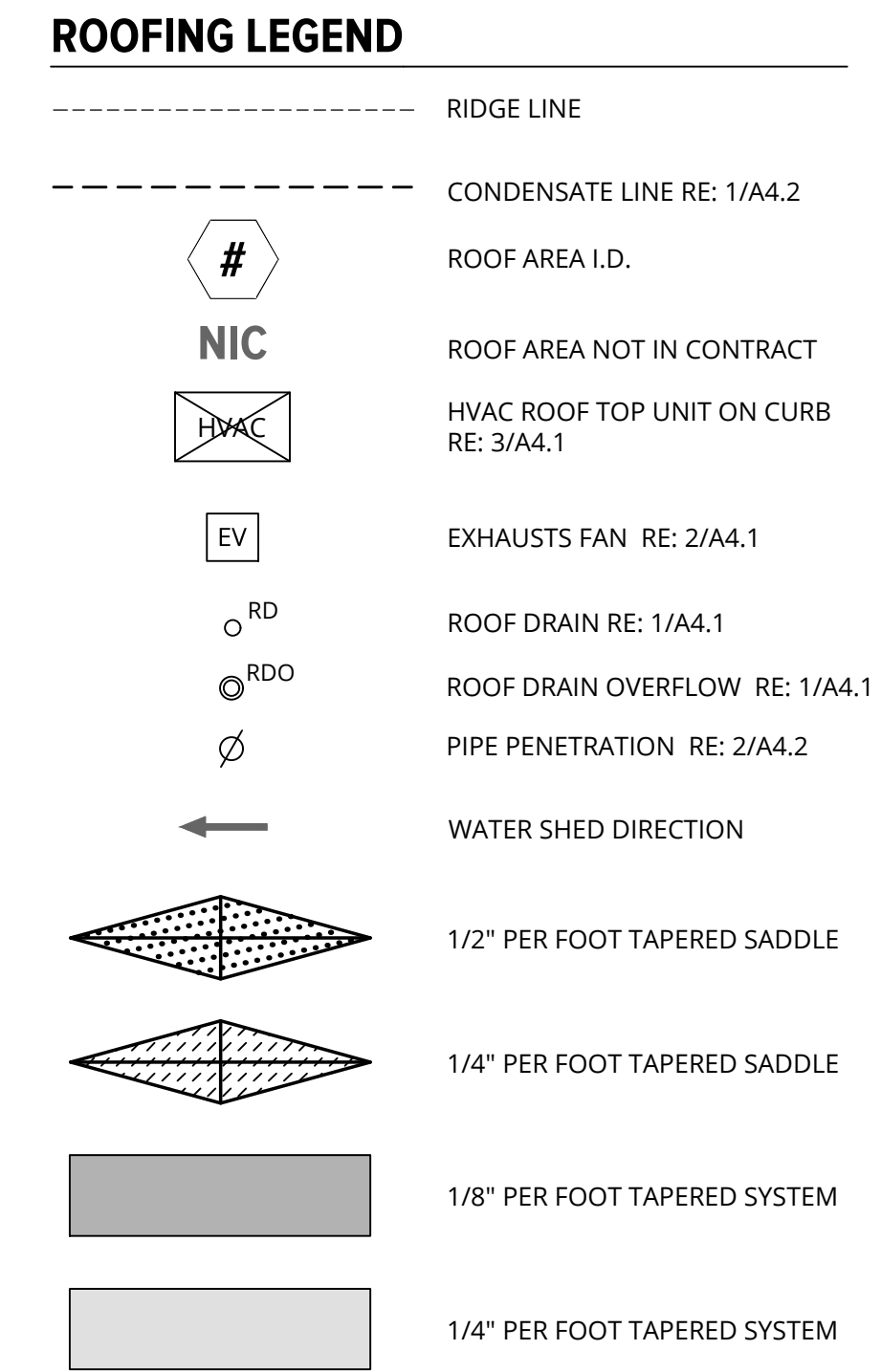
**G1.3**



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  
© 2025

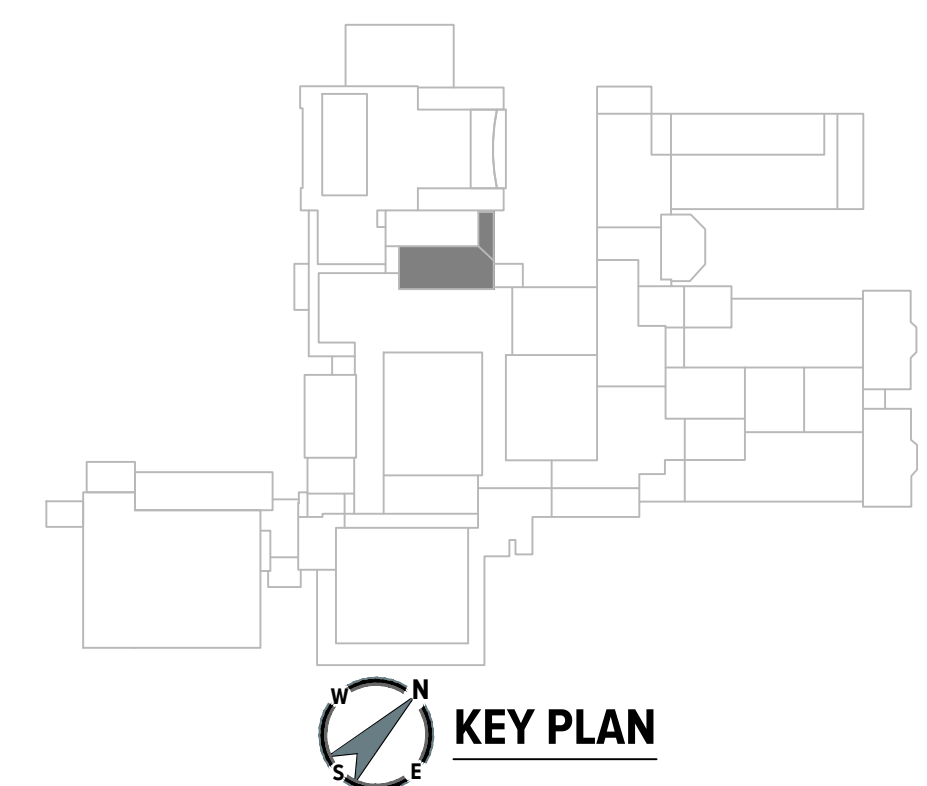
FILE LOCATION: \\sme-hcpx1\WP\098209.01\CAD\Design Files\MAT\Rev-0\IFE\098209.01\Wind Uplift.dwg  
PLOT DATE: Feb 26, 2025 - 10:53am - Jason.Nicholes







ROOF AREAS	ROOF ASSEMBLY (MEMBRANE TO DECK)
 	<p>MEMBRANE: BLACK, 60-MIL, REINFORCED EPDM MEMBRANE, FULLY ADHERED IN BONDING ADHESIVE</p> <p>COVER BOARD: 1/2" DENSDECK PRIME COVER BOARD, ADHERED IN LOW-RISE FOAM</p> <p>TAPERED INSULATION SYSTEM: 1/8"/IT TAPERED POLYISOCYANURATE INSULATION SYSTEM, ADHERED IN LOW-RISE FOAM</p> <p>BASE INSULATION: 2 LAYERS OF 1.5" POLYISOCYANURATE INSULATION, ADHERED IN LOW-RISE FOAM</p> <p>VAPOR RETARDER: VAPOR RETARDER ADHERED IN PRIMER</p> <p>SUBSTRATE BOARD: 1/2" DENSDECK PRIME BOARD, MECHANICALLY ATTACHED</p>



**Project**  
**2025 WATERFORD SCHOOL**  
**DISTRICT**  
**KETTERING HIGH SCHOOL**  
**ROOFING REPLACEMENT**

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

**Engineer's Seal**

Revisions			
EV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date 02/26/2025

**SME Project No.**  
**098209.01**

**Project Manager:**  
**K. DAMEROW**

Designer: **T. ACORD**

CADD: J. NICHOLS

Checked By: **K. DAMEROW**

Reviewed By: **A. CASSIDY**

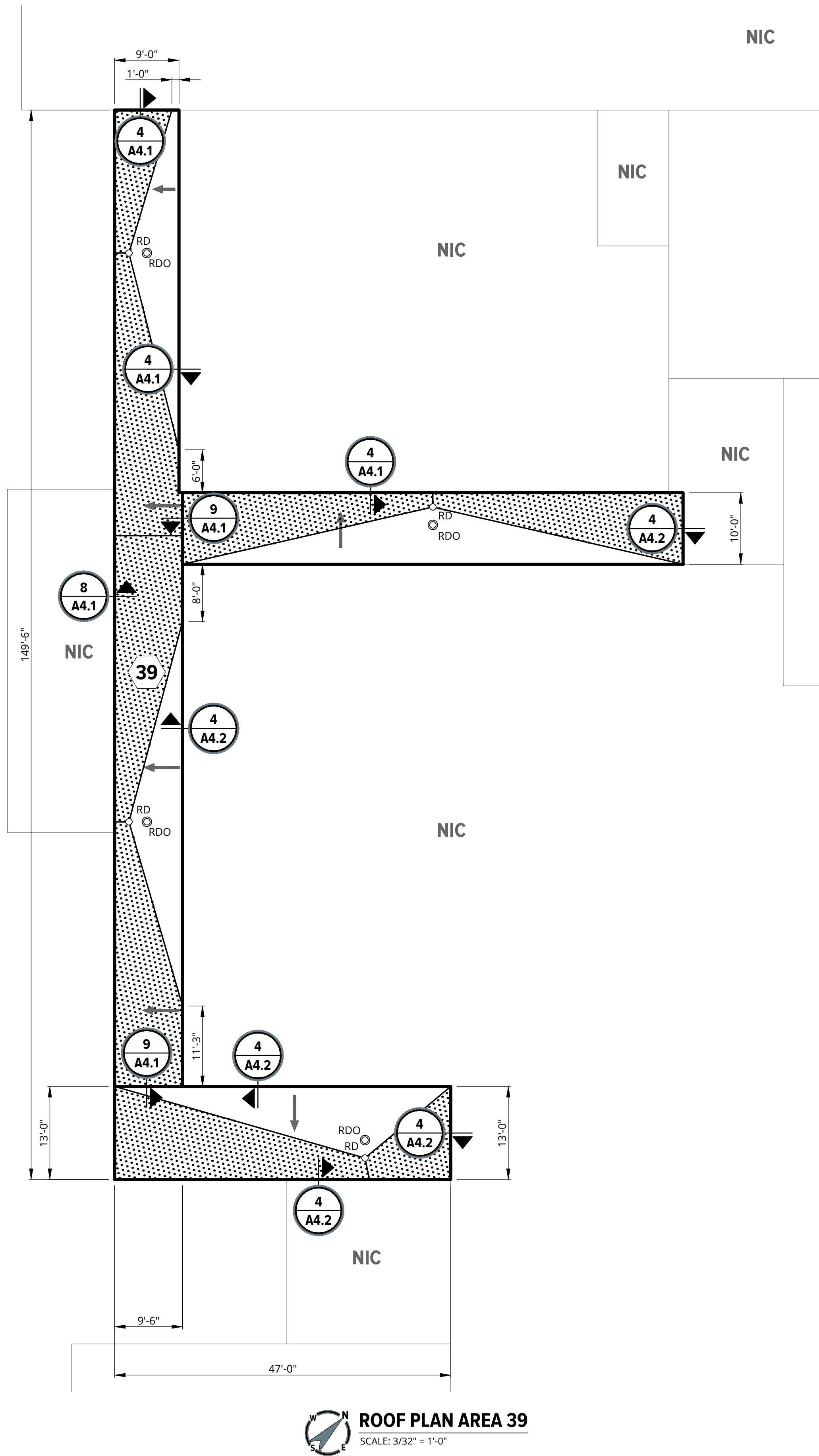
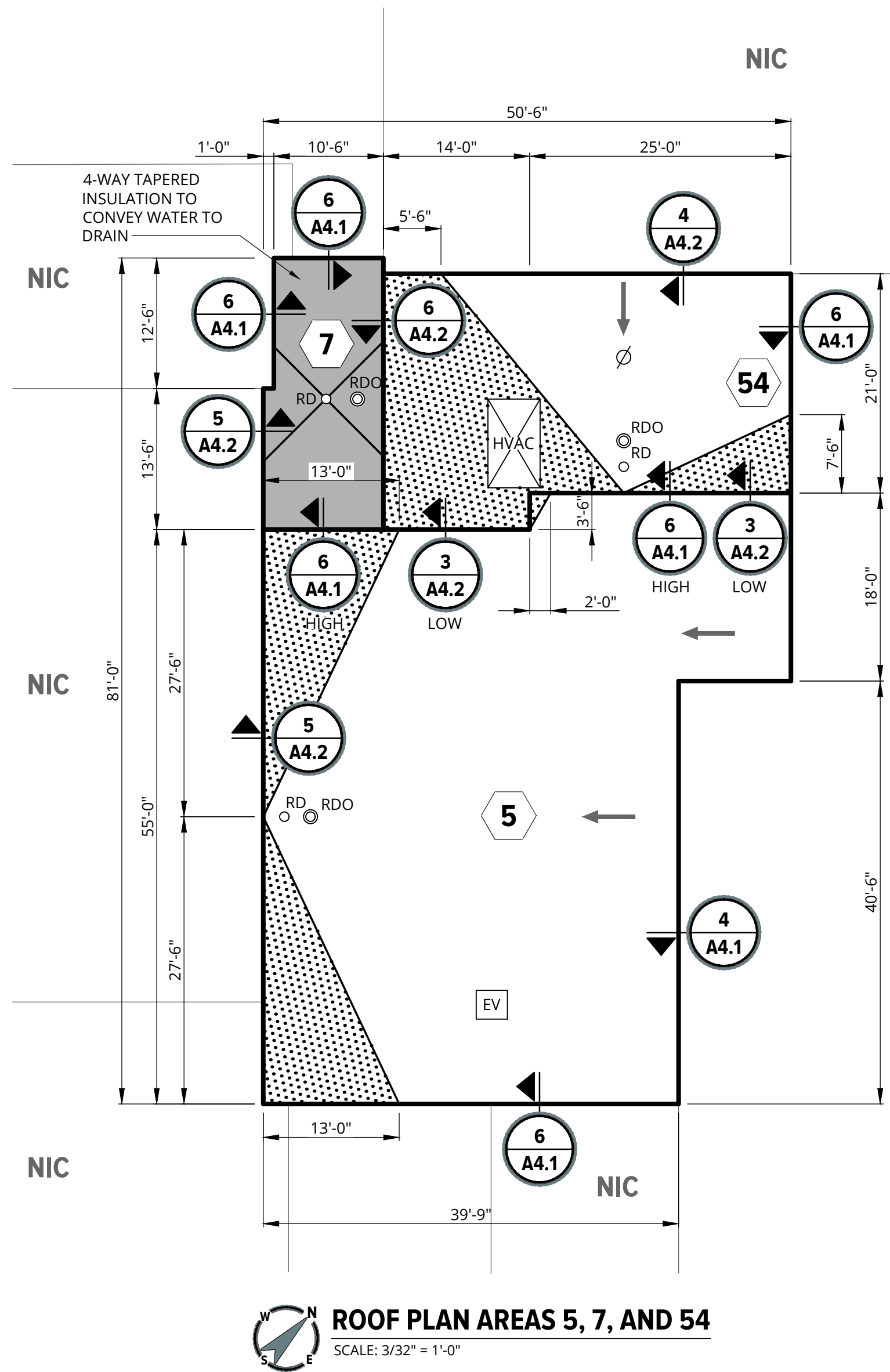
Sheet Name: **ROOF PLAN  
AREAS 32 AND 63**

Sheet No. **A1.2**

RAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" AND  
WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE  
MEDIA

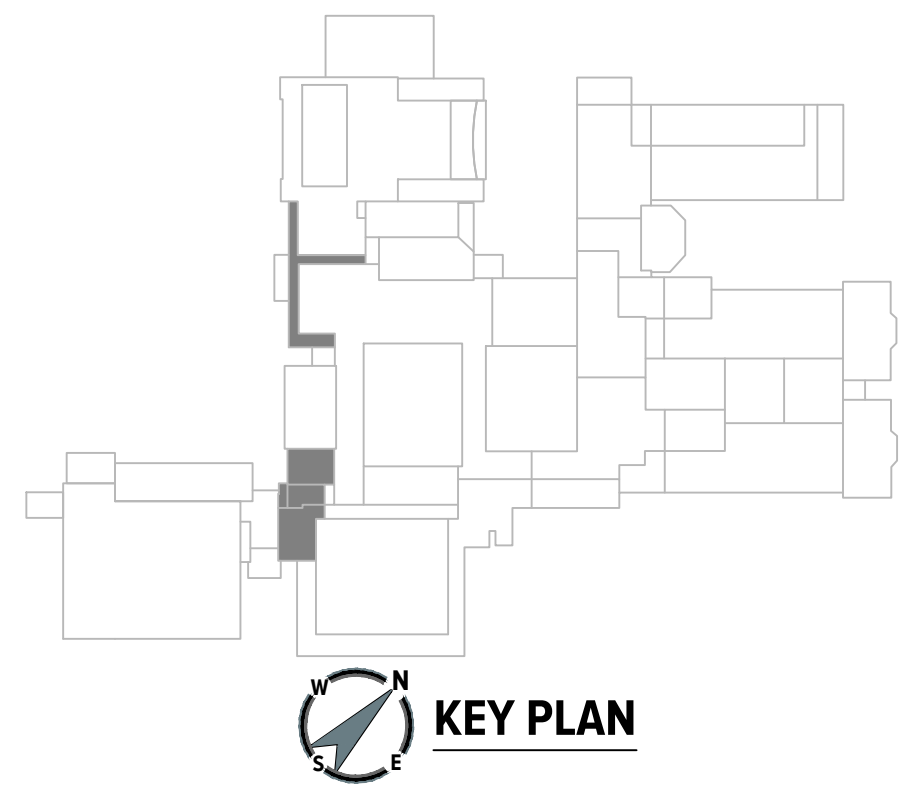
NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR  
CONSENT OF SME  
© 2025


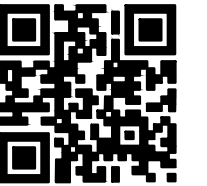

PLOT DATE: Feb 26, 2025 - 10:54am - jason.nicholes FILE LOCATION: \\sme-inc\p\WIP\098209.01\CAD\Design Files\MAT\Rev0\FB\098209.01-Plans.dwg



- ROOFING LEGEND**
- RIDGE LINE
  - CONDENSATE LINE RE: 1/A4.2
  - # ROOF AREA I.D.
  - NIC ROOF AREA NOT IN CONTRACT
  - HVAC HVAC ROOF TOP UNIT ON CURB RE: 3/A4.1
  - EV EXHAUSTS FAN RE: 2/A4.1
  - RD ROOF DRAIN RE: 1/A4.1
  - RDO ROOF DRAIN OVERFLOW RE: 1/A4.1
  - Ø PIPE PENETRATION RE: 2/A4.2
  - ← WATER SHED DIRECTION
  - 1/2" PER FOOT TAPERED SADDLE
  - 1/4" PER FOOT TAPERED SADDLE
  - 1/8" PER FOOT TAPERED SYSTEM
  - 1/4" PER FOOT TAPERED SYSTEM

ROOF AREAS	ROOF ASSEMBLY (MEMBRANE TO DECK)
5 39 54	MEMBRANE: BLACK, 60-MIL, REINFORCED EPDM MEMBRANE, FULLY ADHERED IN BONDING ADHESIVE COVER BOARD: 1/2" DENSDECK PRIME COVER BOARD, ADHERED IN LOW-RISE FOAM BASE INSULATION: 2 LAYERS OF 2.6" POLYISOCYANURATE INSULATION, ADHERED IN LOW-RISE FOAM VAPOR RETARDER: VAPOR RETARDER ADHERED IN PRIMER SUBSTRATE BOARD: 1/2" DENSDECK PRIME BOARD, MECHANICALLY ATTACHED
7	MEMBRANE: BLACK, 60-MIL, REINFORCED EPDM MEMBRANE, FULLY ADHERED IN BONDING ADHESIVE COVER BOARD: 1/2" DENSDECK PRIME COVER BOARD, ADHERED IN LOW-RISE FOAM TAPERED INSULATION SYSTEM: 1/8" JET TAPERED POLYISOCYANURATE INSULATION SYSTEM, ADHERED IN LOW-RISE FOAM BASE INSULATION: 2 LAYERS OF 2.6" POLYISOCYANURATE INSULATION, ADHERED IN LOW-RISE FOAM VAPOR RETARDER: VAPOR RETARDER ADHERED IN PRIMER SUBSTRATE BOARD: 1/2" DENSDECK PRIME BOARD, MECHANICALLY ATTACHED





Project

**2025 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT**

Project Location

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

Engineer's Seal

Revisions

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date

**02/26/2025**

SME Project No.

**098209.01**

Project Manager:

**K. DAMEROW**

Designer:

**T. ACORD**

CADD:

**J. NICHOLAS**

Checked By:

**K. DAMEROW**

Reviewed By:

**A. CASSIDY**

Sheet Name:

**ROOF PLAN AREAS 5, 7, 39, AND 54**

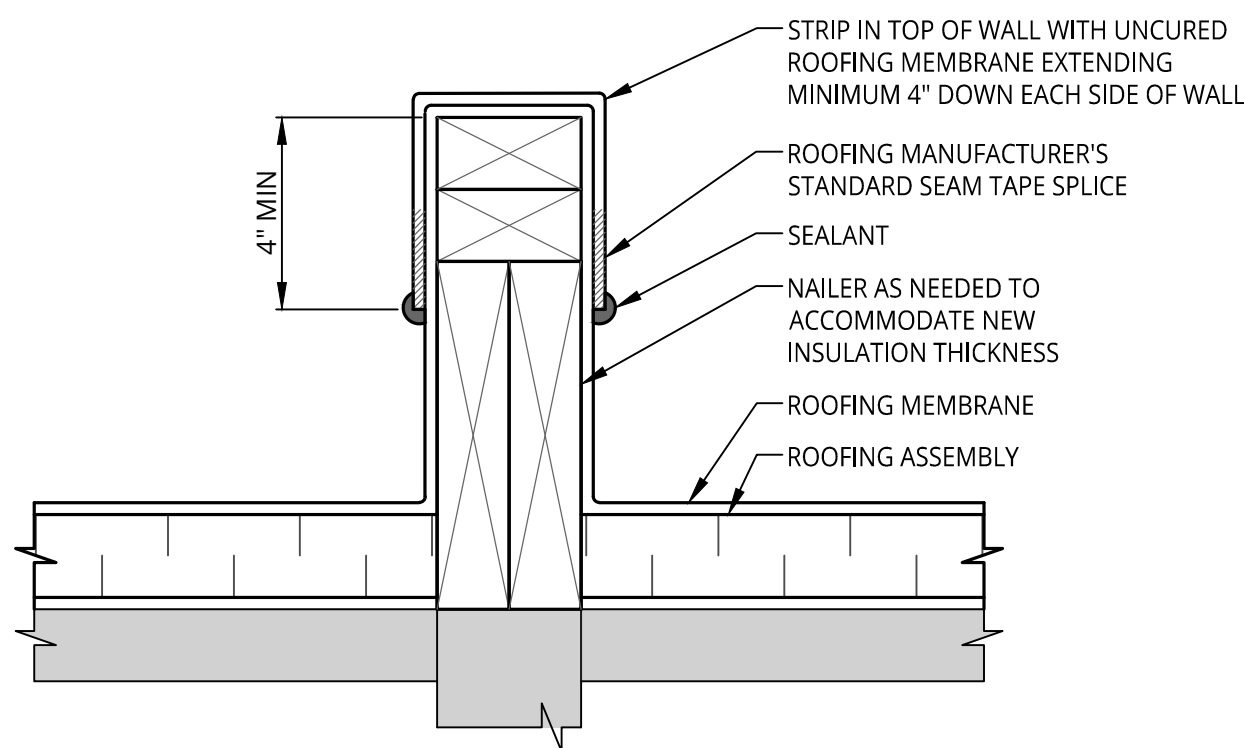
Sheet No.

**A1.3**

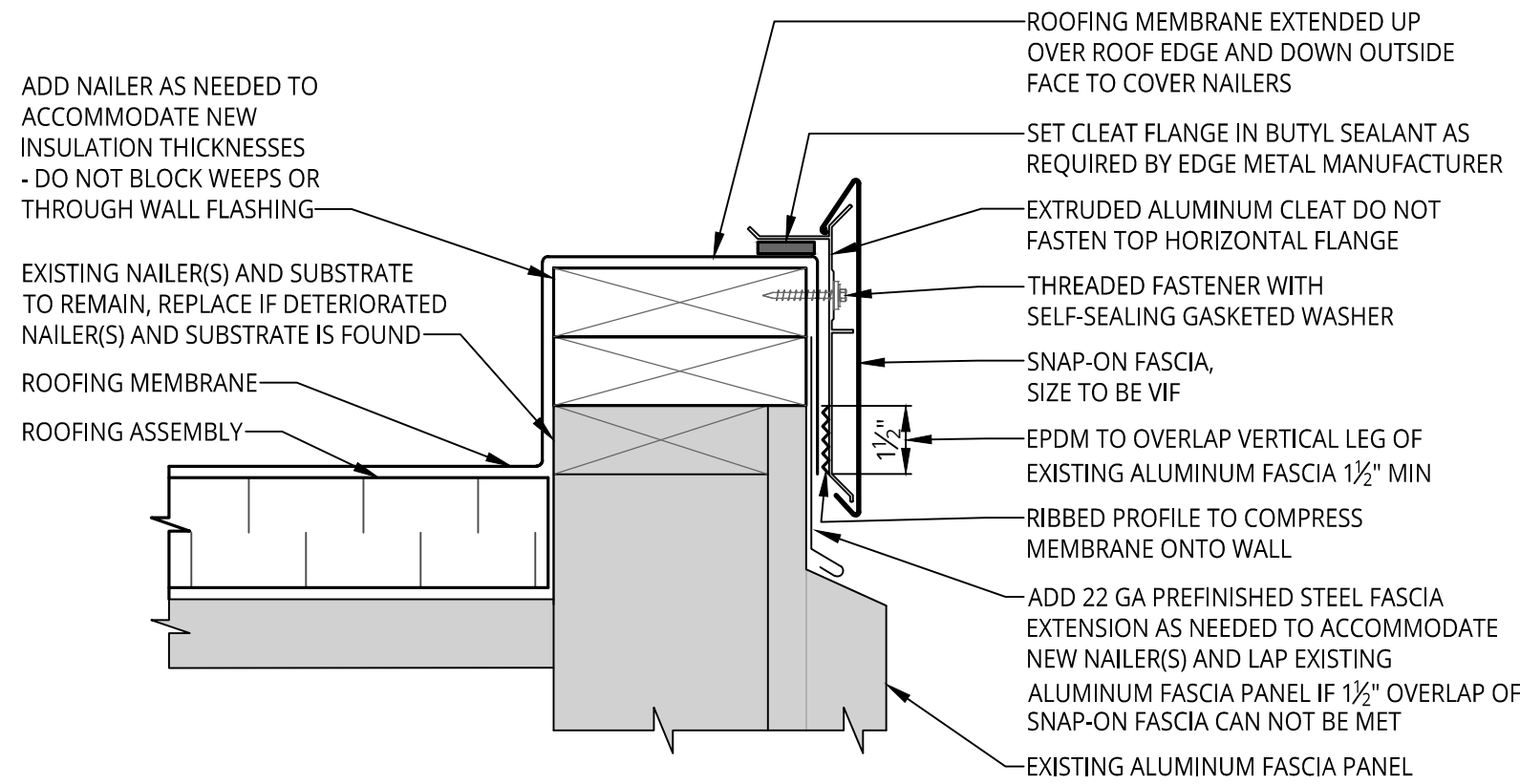
DRAWING NOTE: SCALE SHOWN IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA  
NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME  
© 2025

FILE LOCATION: \\sme-hc\p\2025\098209.01\CADD\Design Files\Mat\Rev01\098209.01 Plans.dwg PLOT DATE: Feb 26, 2025 - 10:55am - Jason.Nicholas

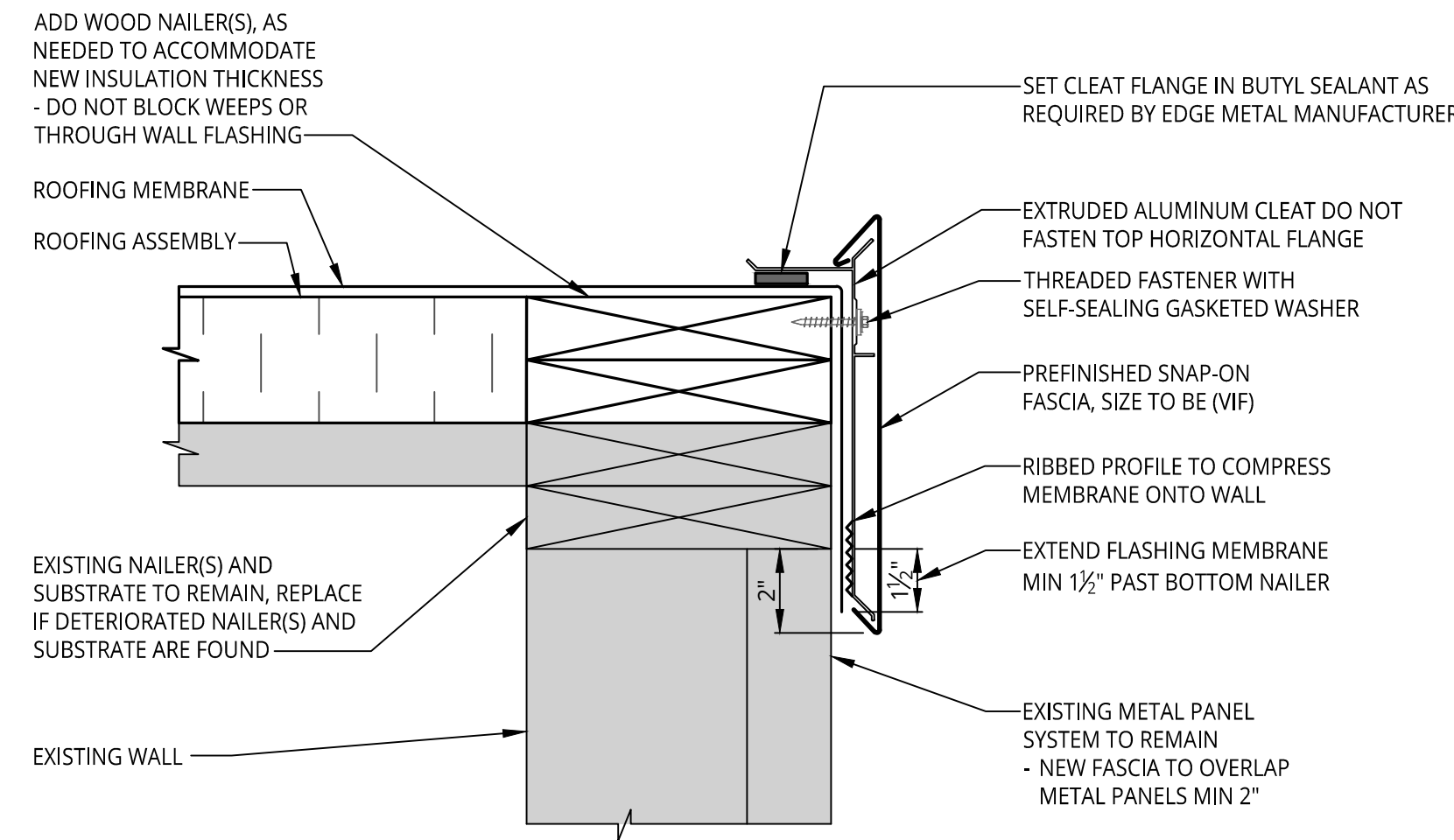




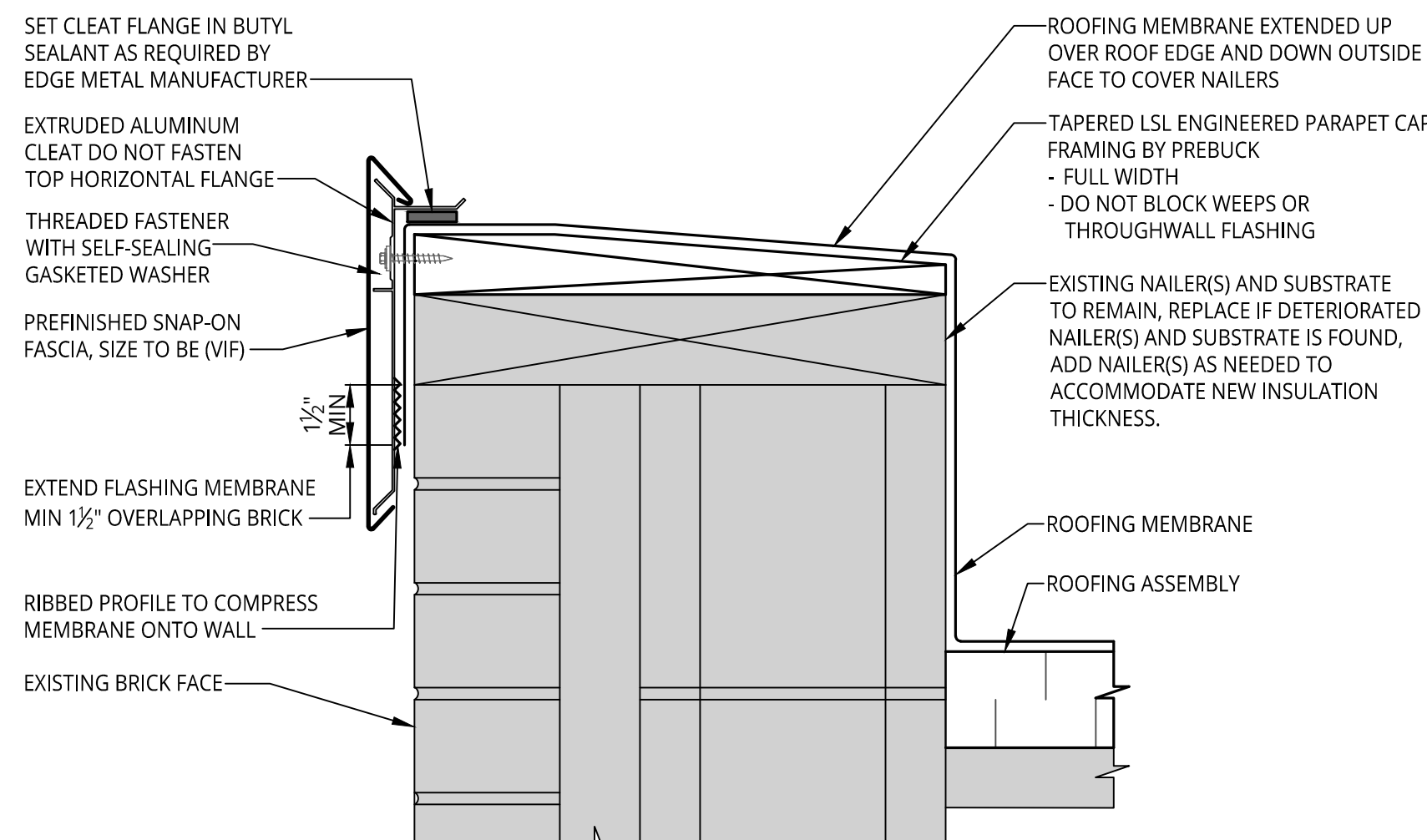
**9 KNEE WALL FLASHING**  
A1.2 NOT TO SCALE



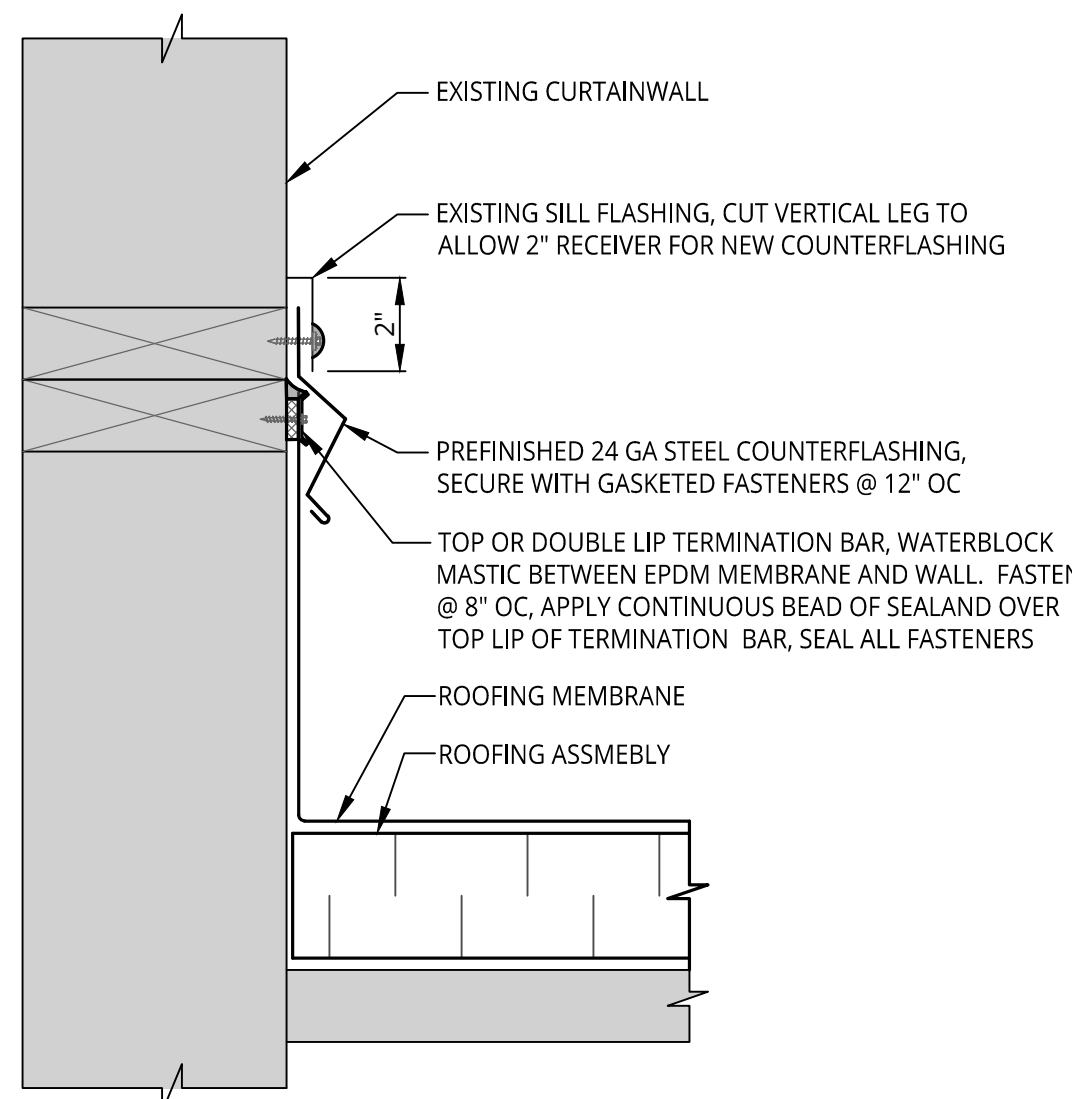
**8 FASCIA AT METAL PANEL**  
A1.2 NOT TO SCALE



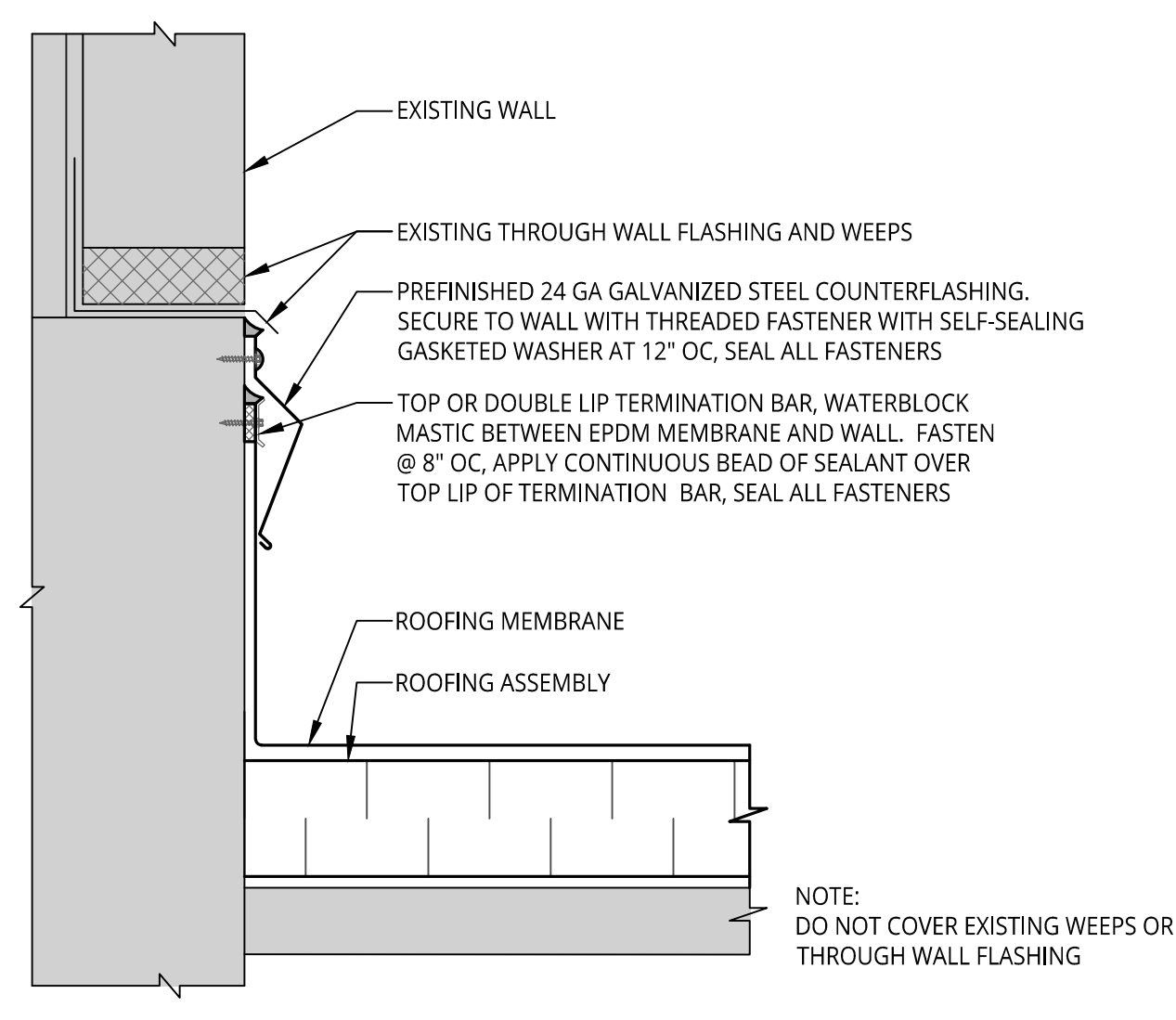
**7 PERIMETER EDGE METAL FLASHING**  
A1.1 NOT TO SCALE



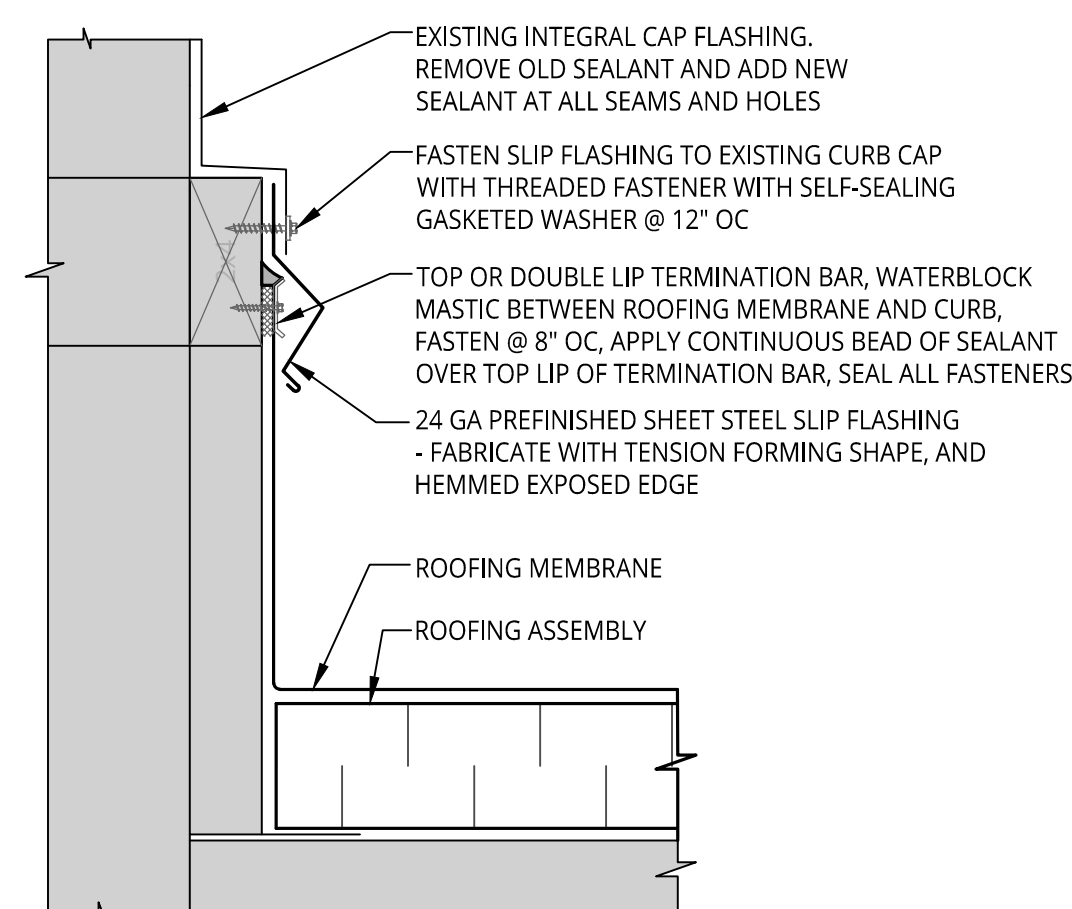
**6 PERIMETER EDGE METAL FLASHING**  
A1.1 NOT TO SCALE



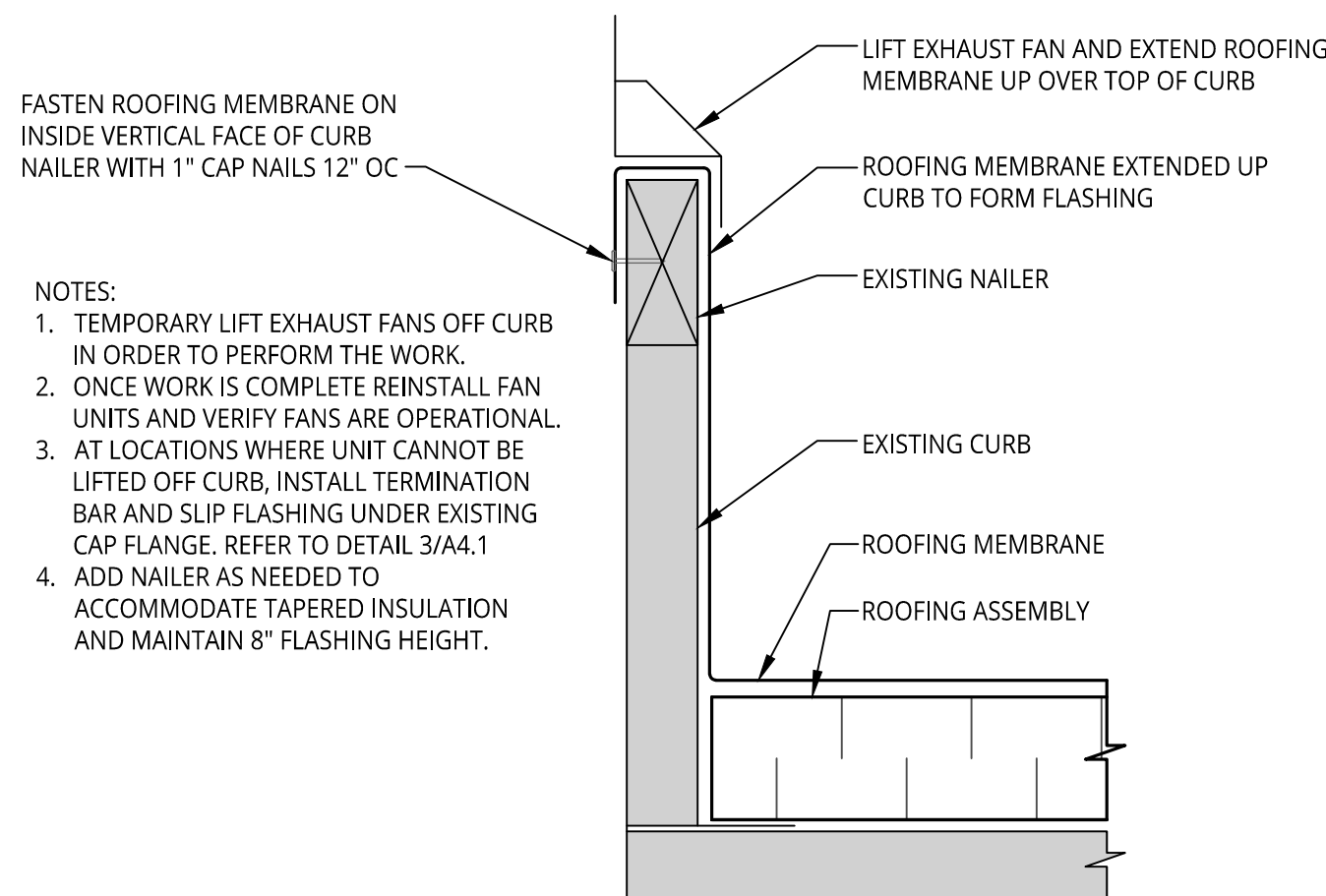
**5 COUNTERFLASHING AT CURTAINWALL SILL FLASHING**  
A1.1 NOT TO SCALE



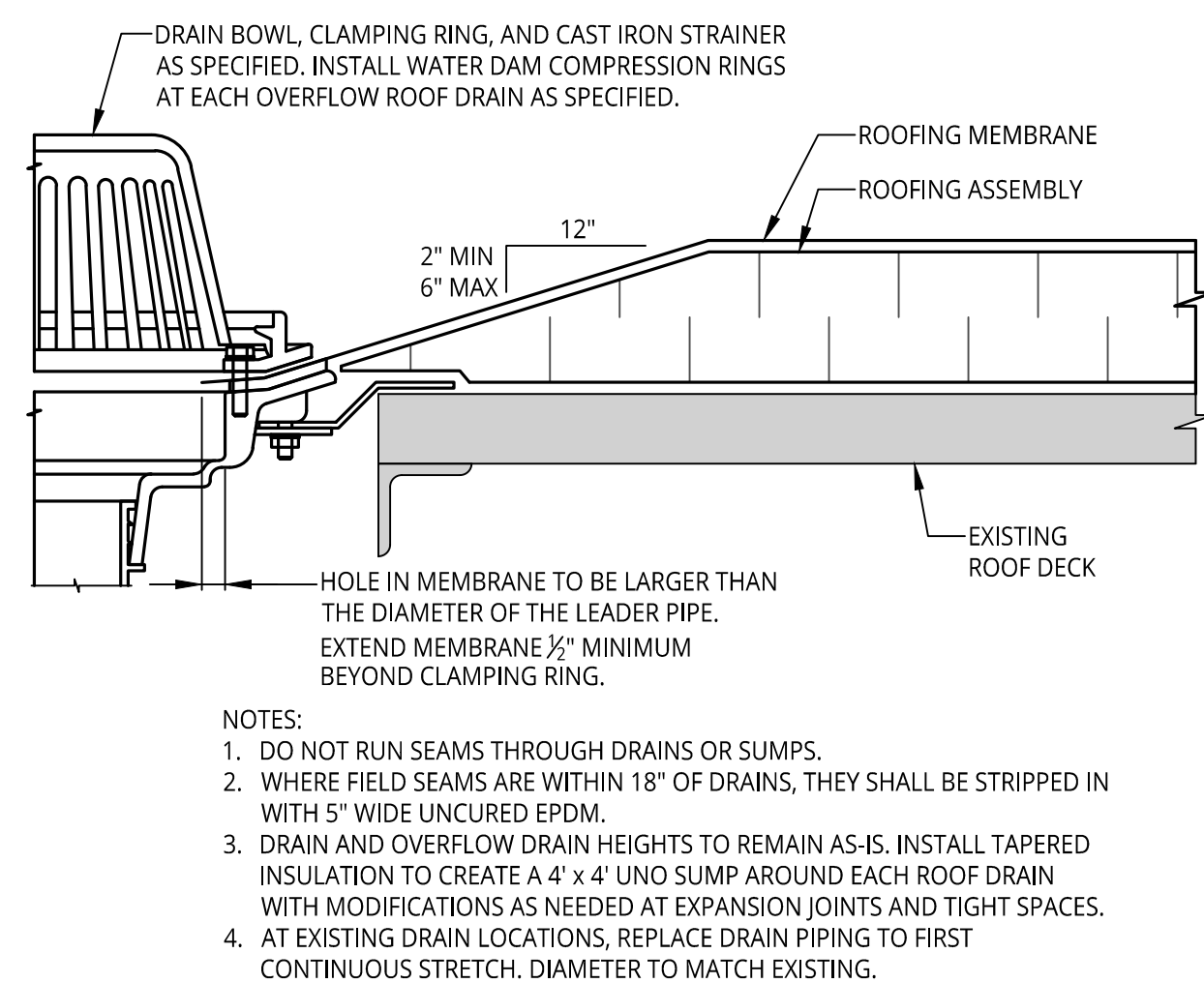
**4 COUNTERFLASHING AT EXISTING RECEIVER**  
A1.1 NOT TO SCALE



**3 TYPICAL CURB WITH SLIP FLASHING**  
A1.2 NOT TO SCALE



**2 TYPICAL CURB UP AND OVER FLASHING**  
A1.1 NOT TO SCALE



**1 ROOF DRAIN**  
A1.1 NOT TO SCALE

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD



Project  
**2025 WATERFORD SCHOOL DISTRICT  
KETTERING HIGH SCHOOL  
ROOFING REPLACEMENT**

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

Engineer's Seal

Revisions

REV	ISSUED FOR	DATE	BY
	BIDS	02/26/2025	KMD

Date  
**02/26/2025**

SME Project No.  
**098209.01**

Project Manager:  
**K. DAMEROW**

Designer:  
**T. ACORD**

CADD:  
**J. NICHOLAS**

Checked By:  
**K. DAMEROW**

Reviewed By:  
**A. CASSIDY**

Sheet Name:  
**FLASHING DETAILS**

Sheet No.  
**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  
© 2025

FILE LOCATION: \\sme-hc1p1\MP\098209.01\CAD\Design Files\WAT\Rev01\Details.dwg  
Feb 26, 2025 - 10:57am - Jason.Nicholas  
PLOT DATE:

