

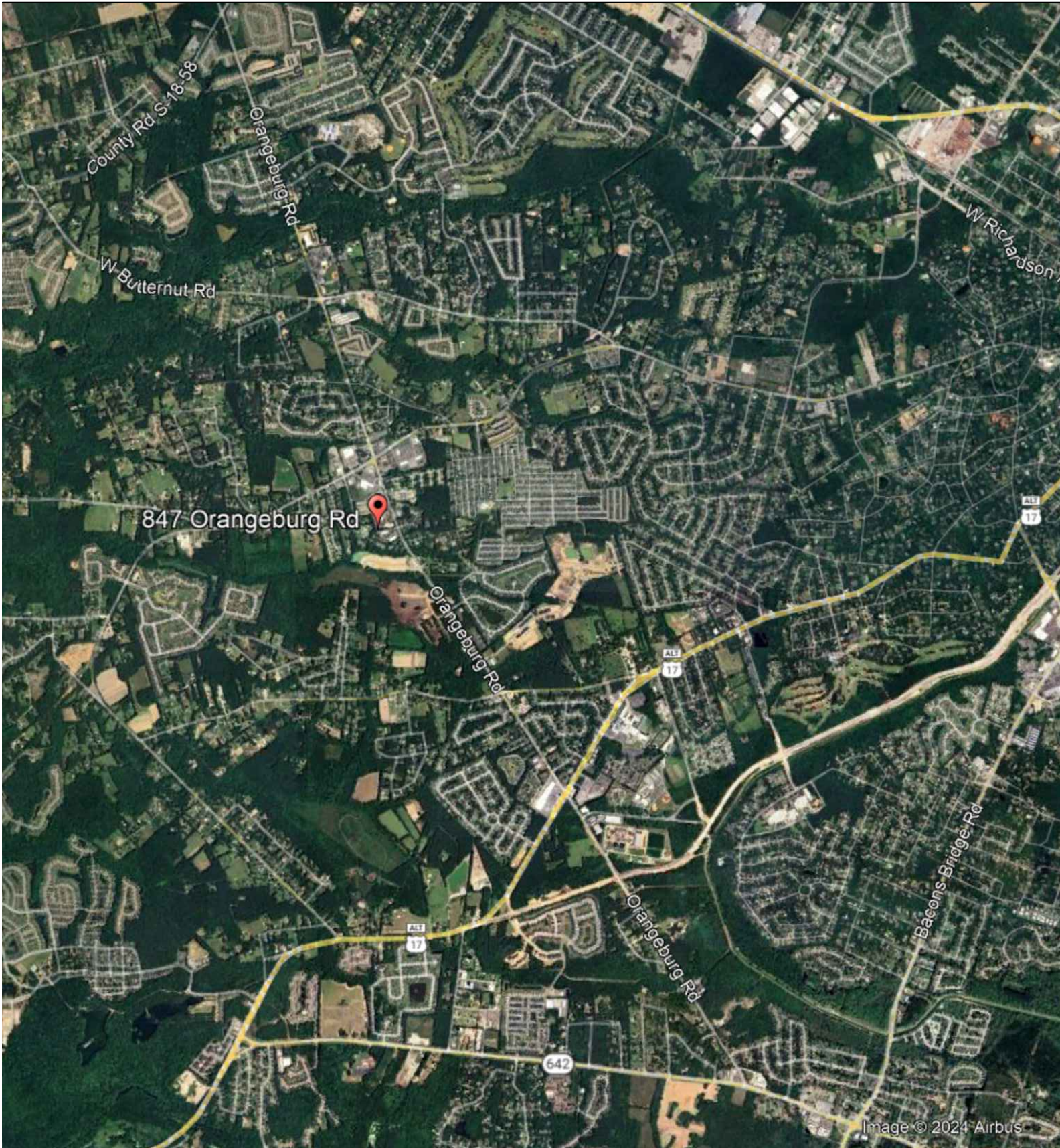
DORCHESTER SCHOOL DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF REPLACEMENT AND EXTERIOR WALL RENOVATION

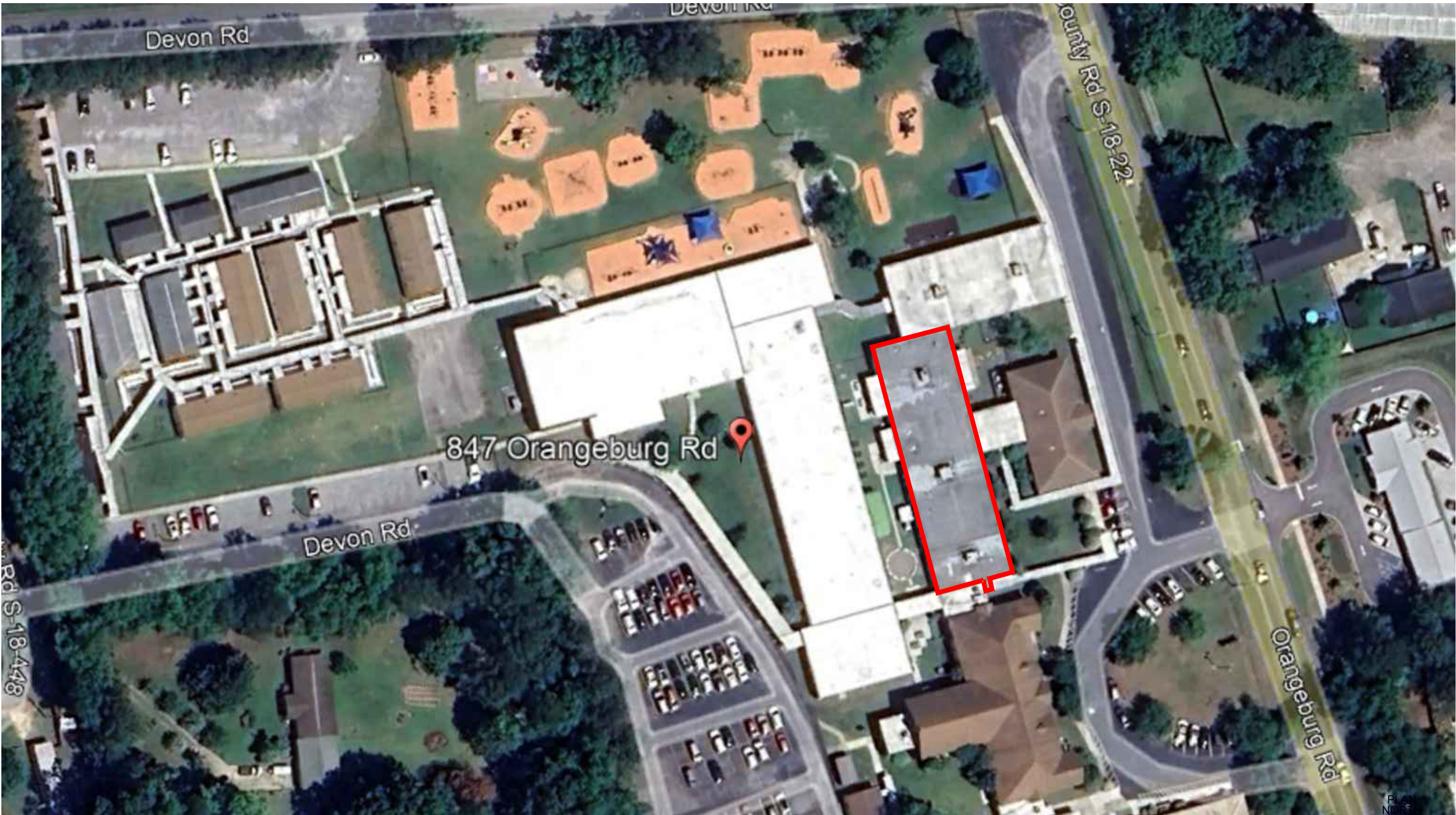
847 ORANGEBURG ROAD
SUMMERVILLE, SC

REI PROJECT NO. 024CHS-057

DATE: 03-21-25



A VICINITY MAP
SCALE: N.T.S.



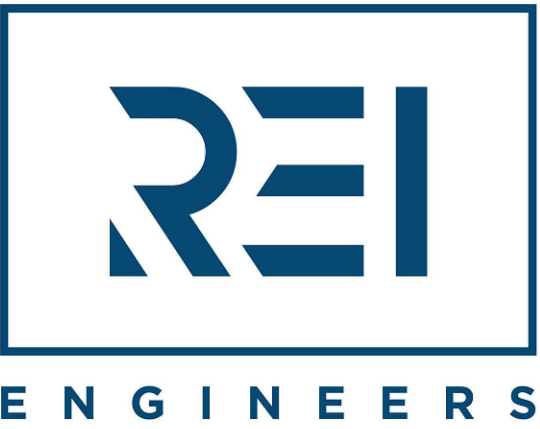
B SITE PLAN
SCALE: N.T.S.

GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
DETAIL NOTES
1. LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
ELEVATION NOTES
1. ELEVATIONS ARE PROVIDED FOR REFERENCE. ACTUAL CONDITIONS MAY VARY ON EACH BUILDING ELEVATION. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRESENT ON EACH ELEVATION.

ABBREVIATION LIST:
AB ABANDONED
ALUM. ALUMINUM
BLDG. BUILDING
CJ CONTROL JOINT
DS DOWNSPOUT
EJ EXPANSION JOINT
EPDM ETHYLENE PROPYLENE DIENE MONOMER
EX. EXISTING
GALV. GALVANIZE
GA. GAUGE
HT. HEIGHT
MAX. MAXIMUM
MIN. MINIMUM
N.I.C. NOT IN CONTRACT
NOM. NOMINAL
N.T.S. NOT TO SCALE
O.C. ON CENTER
OF OVERFLOW
PS PRESSURE SENSITIVE
PVC POLYVINYL CHLORIDE
RPLC. REPLACEMENT
SF SQUARE FEET
S.S. STAINLESS STEEL
SIM. SIMILAR
TERM. TERMINATE/TERMINATION
TYP. TYPICAL

DRAWING INDEX:
G-001 COVER
XR101 EXISTING ROOF PLAN
XR102 NEW ROOF PLAN
XR103 WIND UPLIFT PLAN
XR301 ROOF SYSTEMS
XR501 DETAILS
XR502 DETAILS
XR503 DETAILS
XR504 DETAILS
XW101 BUILDING ELEVATIONS KEY PLAN
XW102 ELEVATION NOTES
XW201 ELEVATIONS
XW202 ELEVATIONS
XW203 ELEVATIONS
XW204 ELEVATIONS
XW205 ELEVATIONS
XW206 ELEVATIONS
XW207 ELEVATIONS
XW501 DETAILS

BUILDING CODE REFERENCE:
2021 SC BUILDING CODE
2009 IECC
2021 SC EXISTING BUILDING CODE
2021 SC FIRE CODE
2021 SC FUEL GAS CODE
2021 SC MECHANICAL CODE
2021 SC PLUMBING CODE



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

COVER

DRAWING

G-001

GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
SHEET NOTES:
1. REMOVE AND DISPOSE OF ABANDONED WIRES.
2. REMOVE SAFETY SWITCH STAND AND RE-ROUTE ELECTRICAL CONDUIT TO ALLOW FOR SAFETY SWITCH TO BE SECURED TO EQUIPMENT CURB ADAPTER.
3. REMOVE AND MODIFY EXISTING N.I.C. ROOF SYSTEM, GUTTER AND ROOF EDGE FLASHING COMPONENTS AS NEEDED TO ALLOW FOR INSTALLATION OF NEW ROOF SYSTEM.
4. EXISTING DRAIN LEADER LINES AND PIPE SUPPORTS TO REMAIN.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

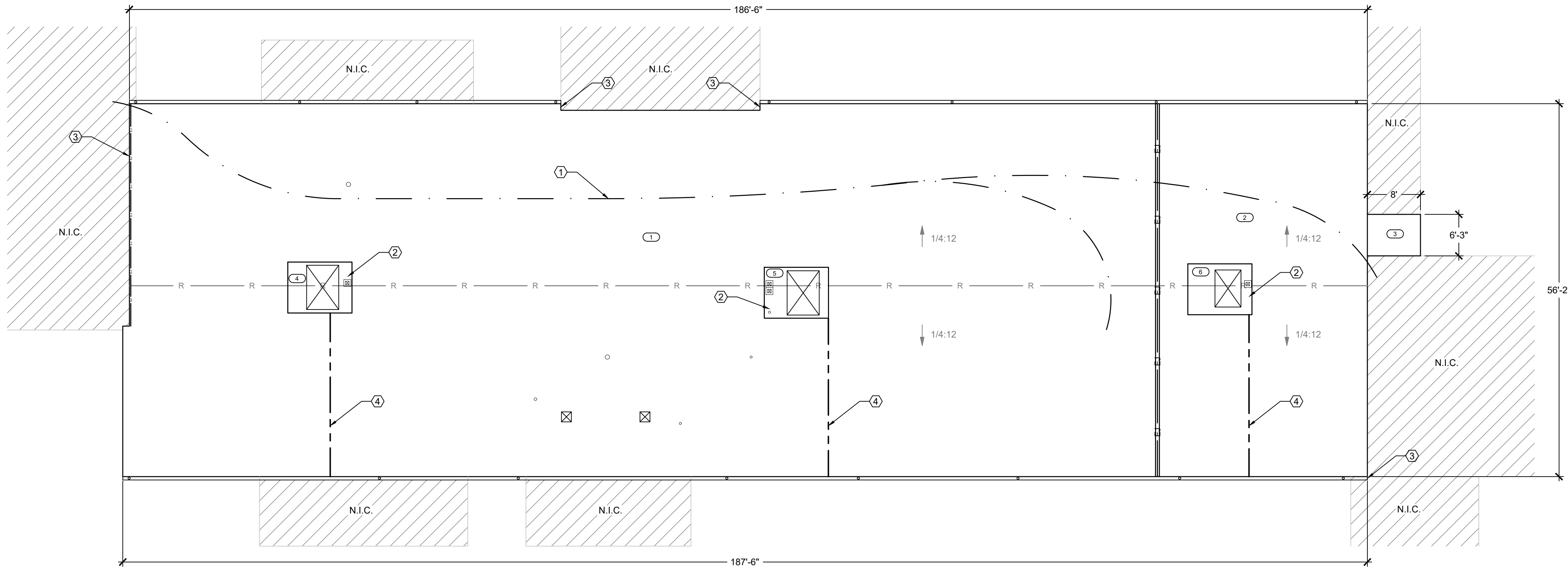
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

EXISTING
ROOF PLAN

DRAWING

XR101



A EXISTING ROOF PLAN

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

11 0 11 21
3/32" = 1'-0"



KEY
— ROOF EDGE
- - EXPANSION JOINT
- - - WALL EXPANSION JOINT
- - - GUTTER EDGE WITH DOWNSPOUT
- - - RIDGE
- - - TAPERED INSULATION SLOPE
- - - DRAIN LEADER
- - - ABANDONED WIRES
○ PIPE PENETRATION
⊠ MECHANICAL CURB
⊠ PITCH PAN
⊠ NOT IN CONTRACT
⊠ ROOF AREA INDICATOR
⊠ NOTE NO.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

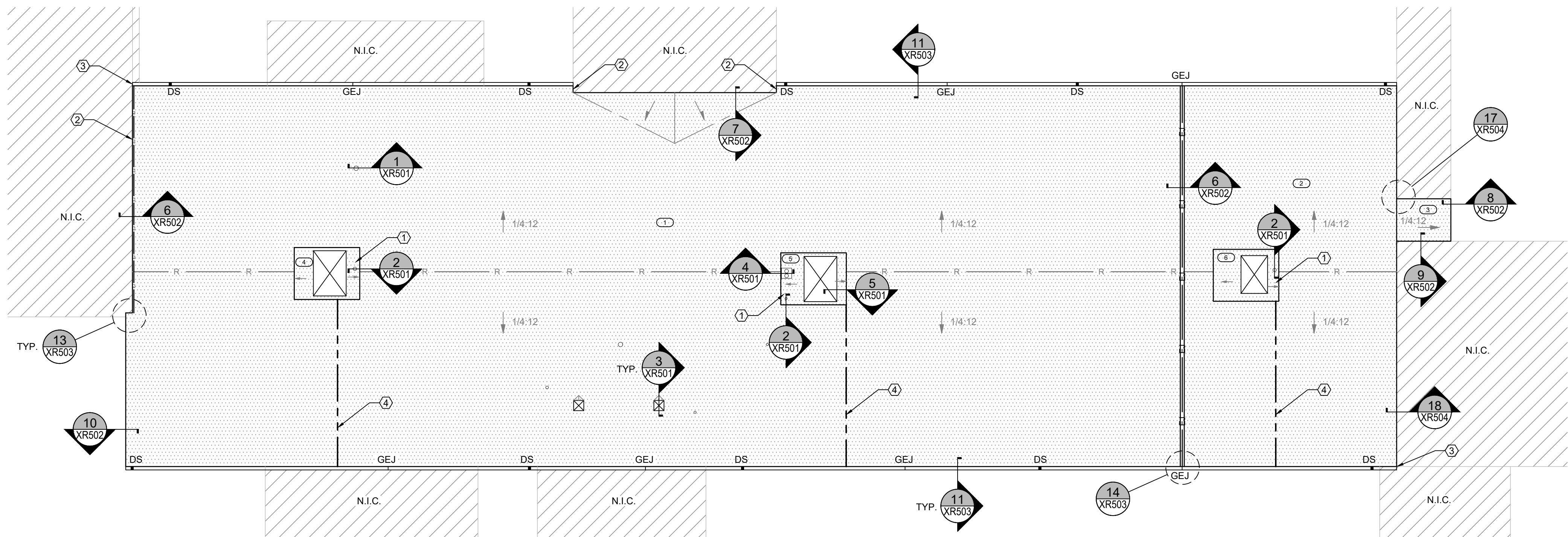
SHEET TITLE

**NEW
ROOF PLAN**

DRAWING

XR102

- GENERAL NOTES:
- THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
 - DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
 - ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
 - NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
- SHEET NOTES:
- REMOVE SAFETY SWITCH STAND AND RE-ROUTE ELECTRICAL CONDUIT TO ALLOW FOR SAFETY SWITCH TO BE SECURED TO EQUIPMENT CURB ADAPTER.
 - REMOVE AND MODIFY EXISTING N.I.C. ROOF SYSTEM, GUTTER AND ROOF EDGE FLASHING COMPONENTS AS NEEDED TO ALLOW FOR INSTALLATION OF NEW ROOF SYSTEM.
 - SLIP NEW CLAD METAL CLOSURE BELOW EXISTING EXPANSION JOINT METAL AND SECURE WITH GASKETED FASTENERS. HOT AIR WELD PVC ONTO CLAD METAL.
 - PROVIDE WALKPADS UNDER EXISTING PIPE SUPPORTS.



KEY
— ROOF EDGE
— EJ — EXPANSION JOINT
— WALL EXPANSION JOINT
— GUTTER EDGE
— R — RIDGE
— TAPERED INSULATION
— TAPERED INSULATION SLOPE
— CRICKET SLOPE
— DRAIN LEADER
— ABANDONED WIRES
— PIPE PENETRATION
— MECHANICAL CURB
— MULTIPLE PIPE PENETRATION
— NOT IN CONTRACT
— ROOF AREA INDICATOR
— NOTE NO.
— DETAIL INDICATOR



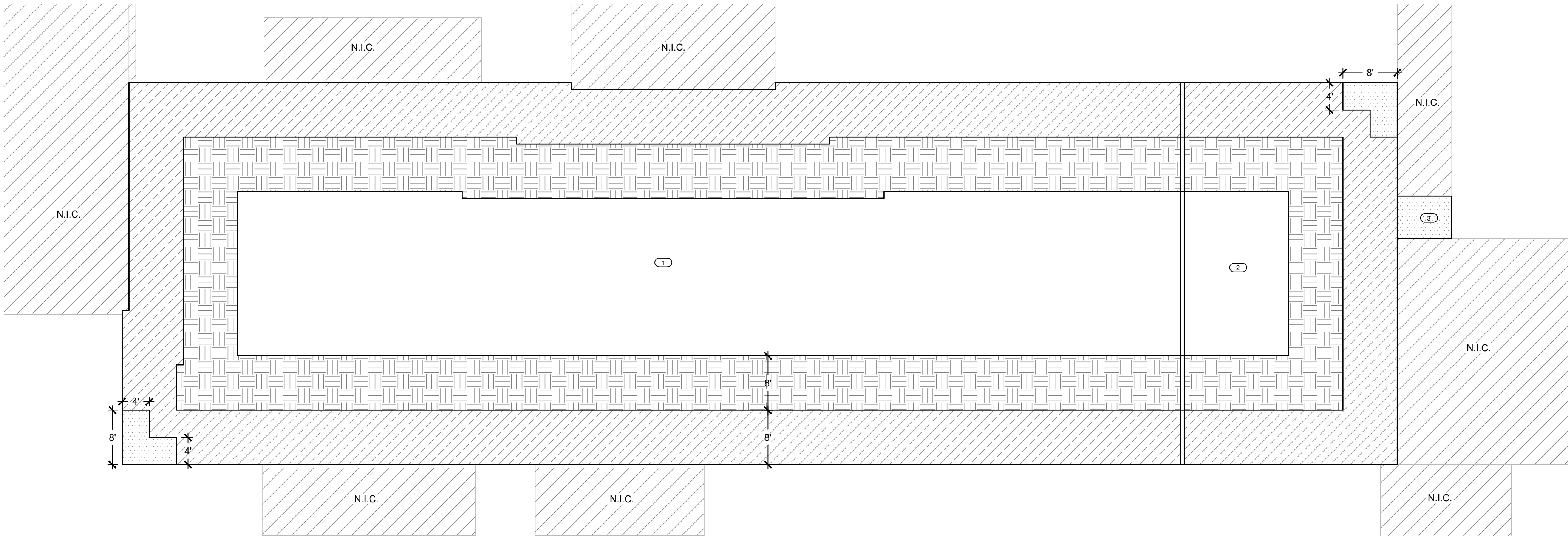
3/32" = 1'-0" 11 0 11 21

A NEW ROOF PLAN

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

WIND UPLIFT SUMMARY		
ASCE 7 - 16		
ULTIMATE DESIGN WIND SPEED	151 MPH	
RISK CATEGORY	III	
EXPOSURE	B	
ENCLOSURE	ENC.	
	ULTIMATE WIND UPLIFT PRESSURES (Psf)	MIN. REQUIRED WIND UPLIFT STRENGTH (Req'd Pub X 1.25 SF)
ZONE 1' - INTERIOR	-22.5 PSF	-28.1 PSF
ZONE 1 - FIELD	-39.2 PSF	-49.0 PSF
ZONE 2 - PERIMETER	-51.7 PSF	-64.6 PSF
ZONE 3 - CORNER	-70.5 PSF	-88.1 PSF

WIND ZONES	
	ZONE 1' (INTERIOR)
	ZONE 1 (FIELD)
	ZONE 2 (PERIMETER)
	ZONE 3 (CORNER)



GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.

SHEET NOTES:
1. NOT USED.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

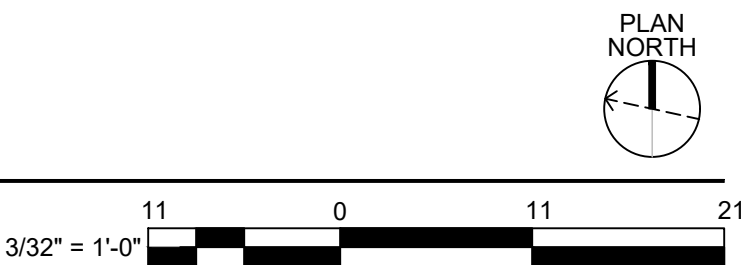
WIND UPLIFT PLAN

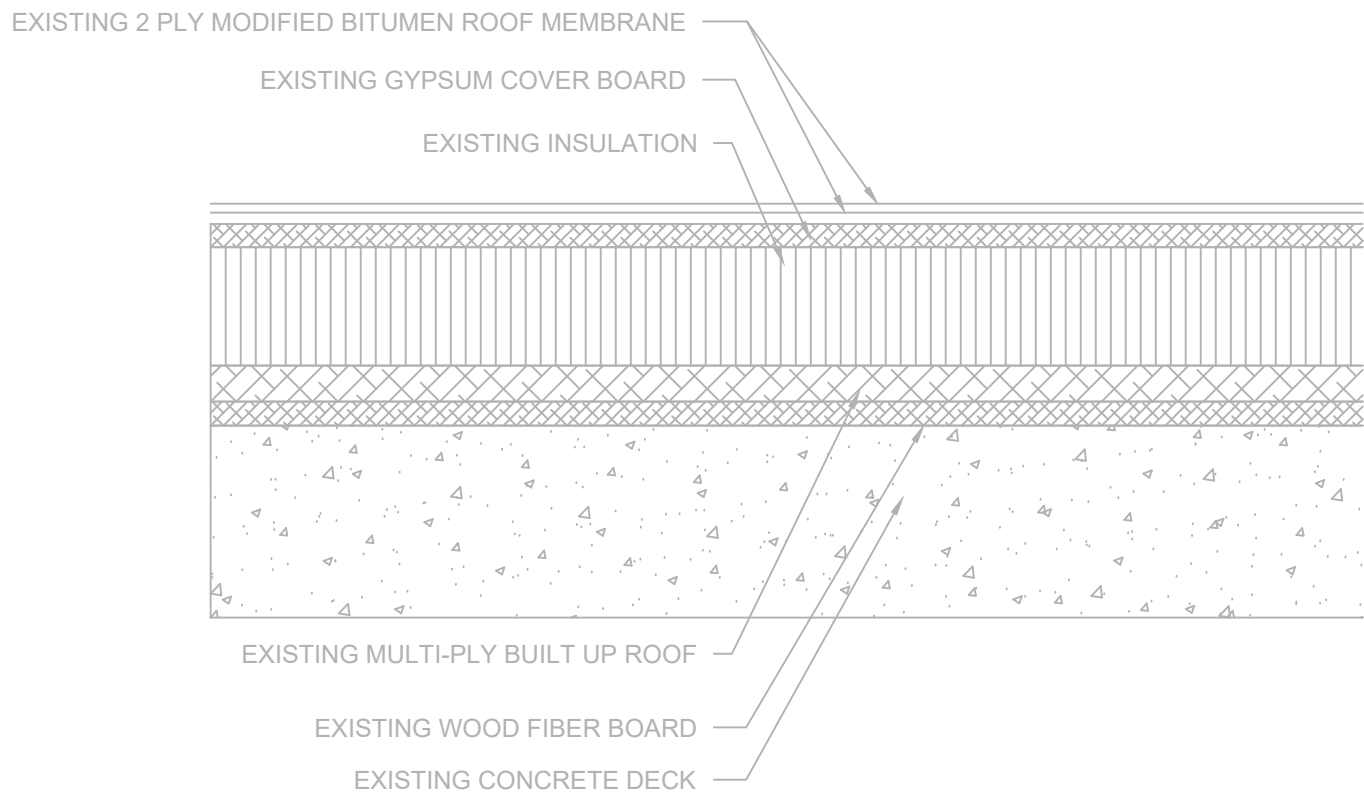
DRAWING

XR103

A WIND UPLIFT PLAN

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

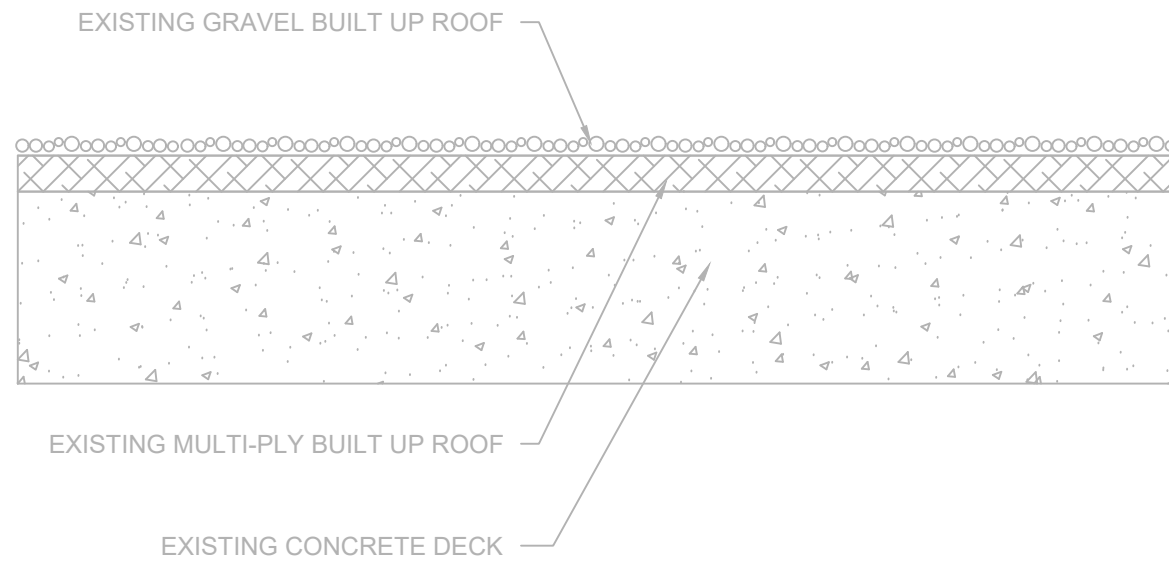




- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING CONCRETE DECK TO REMAIN.

A1 EXISTING ROOF SYSTEM-AREAS 1 & 2

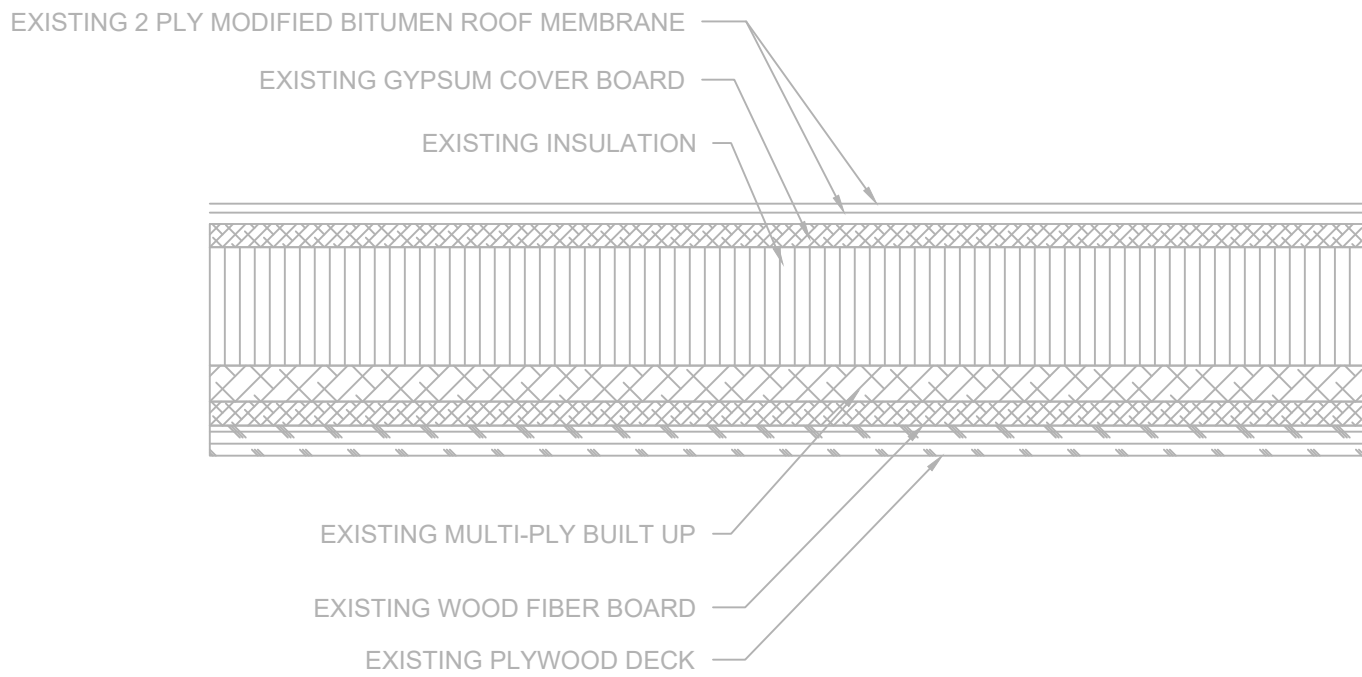
SCALE: 3" = 1'-0"



- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING CONCRETE DECK TO REMAIN.

A2 EXISTING ROOF SYSTEM-AREA 3

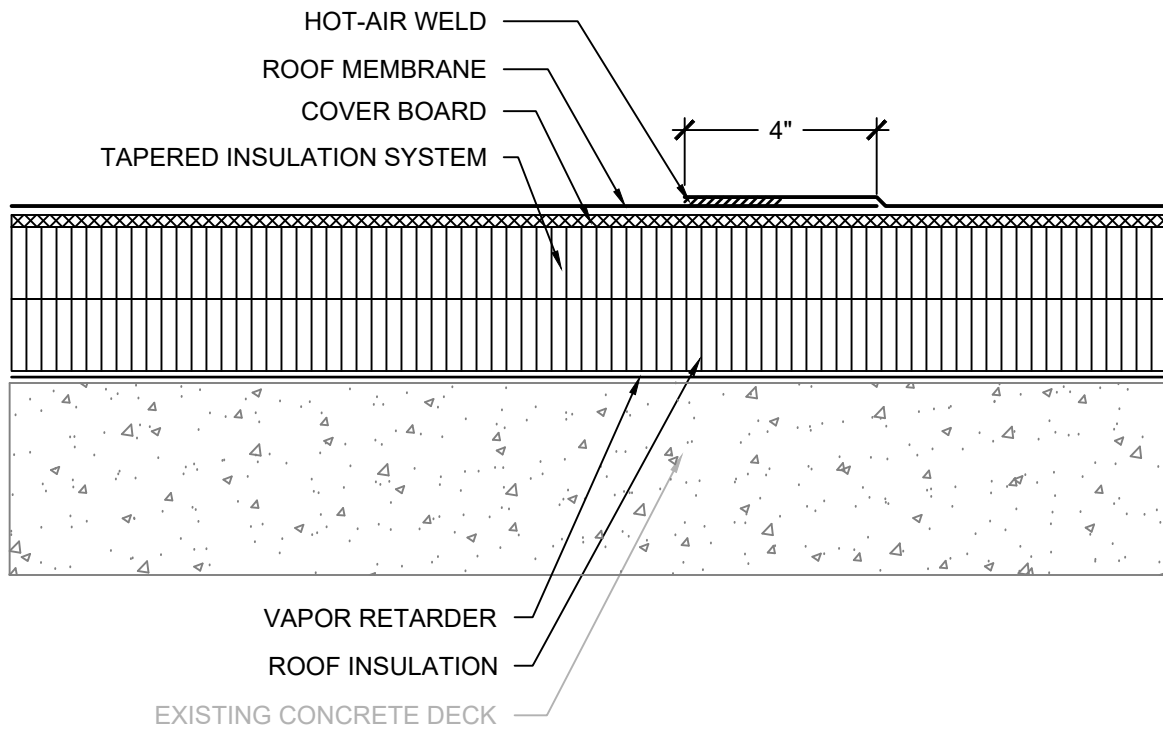
SCALE: 3" = 1'-0"



- NOTES:
- EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
 - REMOVE COMPONENTS DOWN TO THE EXISTING CONCRETE DECK TO REMAIN.

A3 EXISTING ROOF SYSTEM-AREAS 4-6

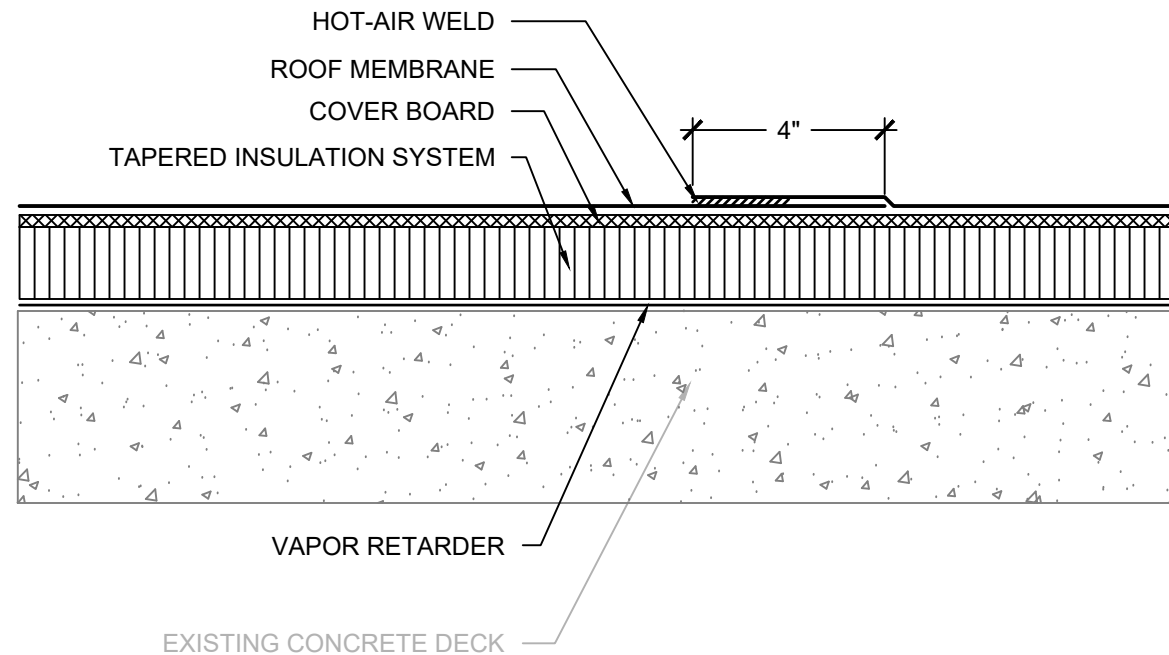
SCALE: 3" = 1'-0"



- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

B1 RPLC. ROOF SYSTEM-AREAS 1 & 2

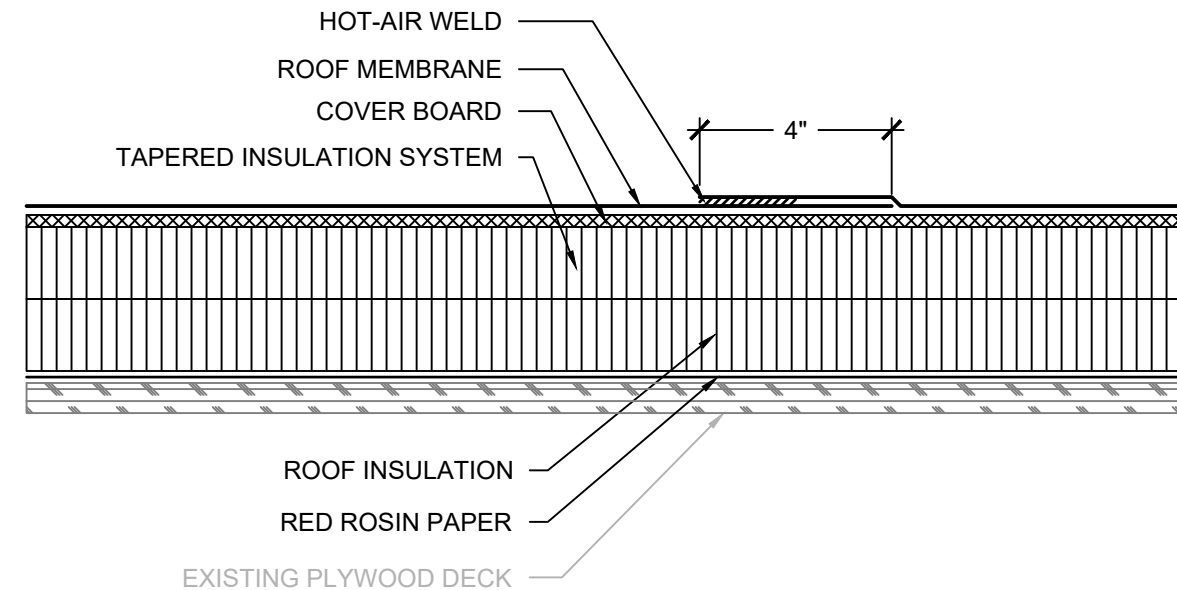
SCALE: 3" = 1'-0"



- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

B2 RPLC. ROOF SYSTEM-AREA 3

SCALE: 3" = 1'-0"

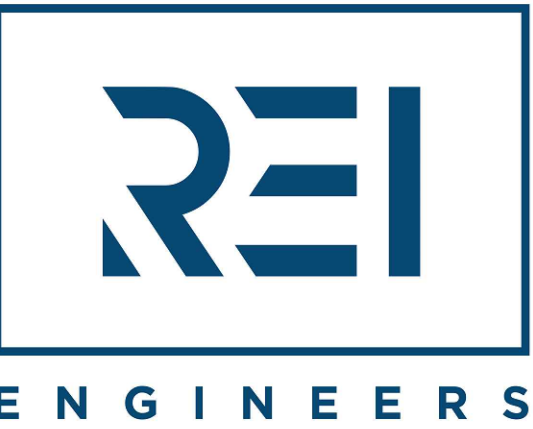


- NOTES:
- PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

B3 RPLC. ROOF SYSTEM-AREAS 4-6

SCALE: 3" = 1'-0"

- GENERAL NOTES:
- THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
 - DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
- SHEET NOTES:
- FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
 - ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

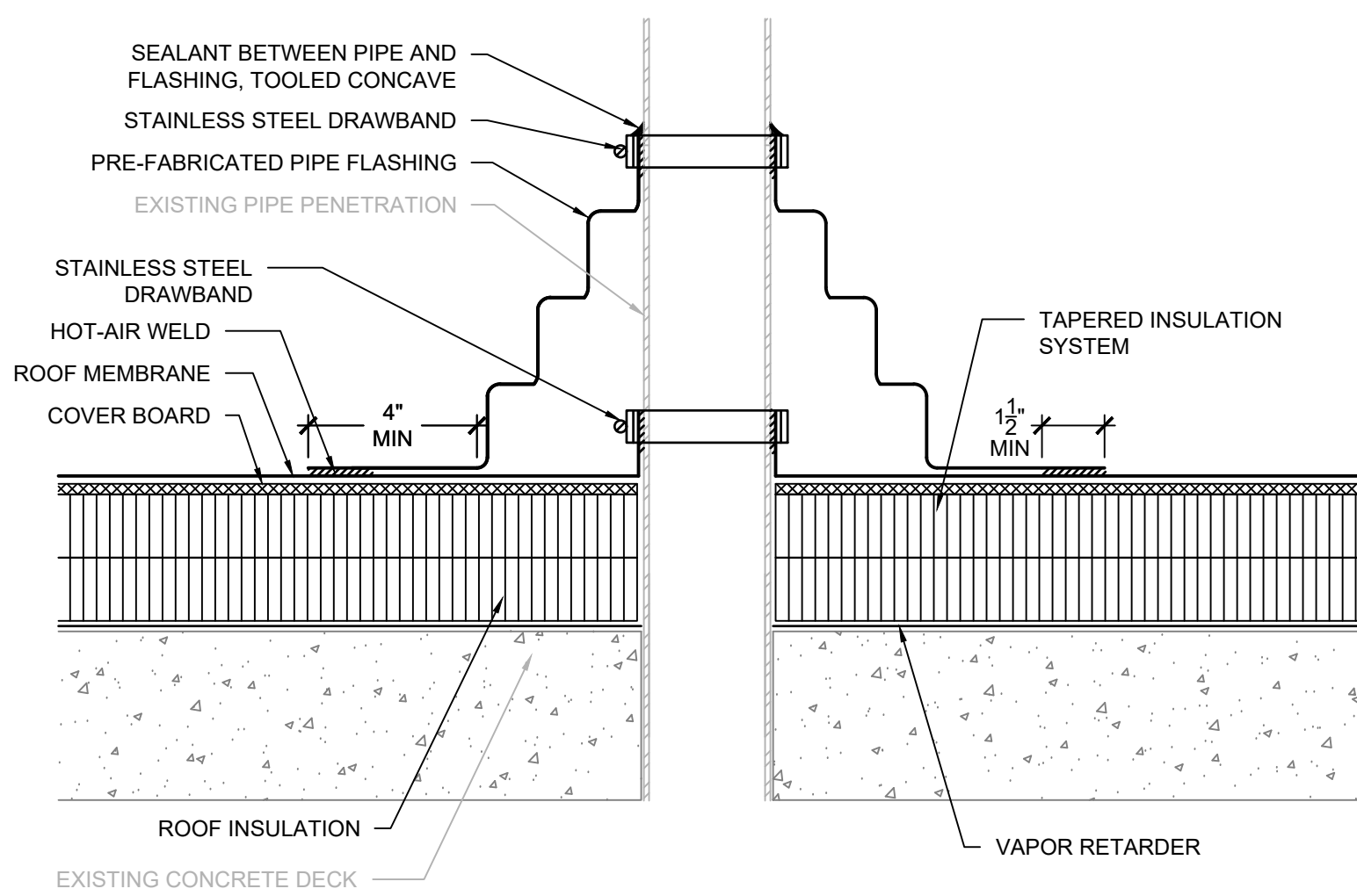
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

ROOF SYSTEMS

DRAWING

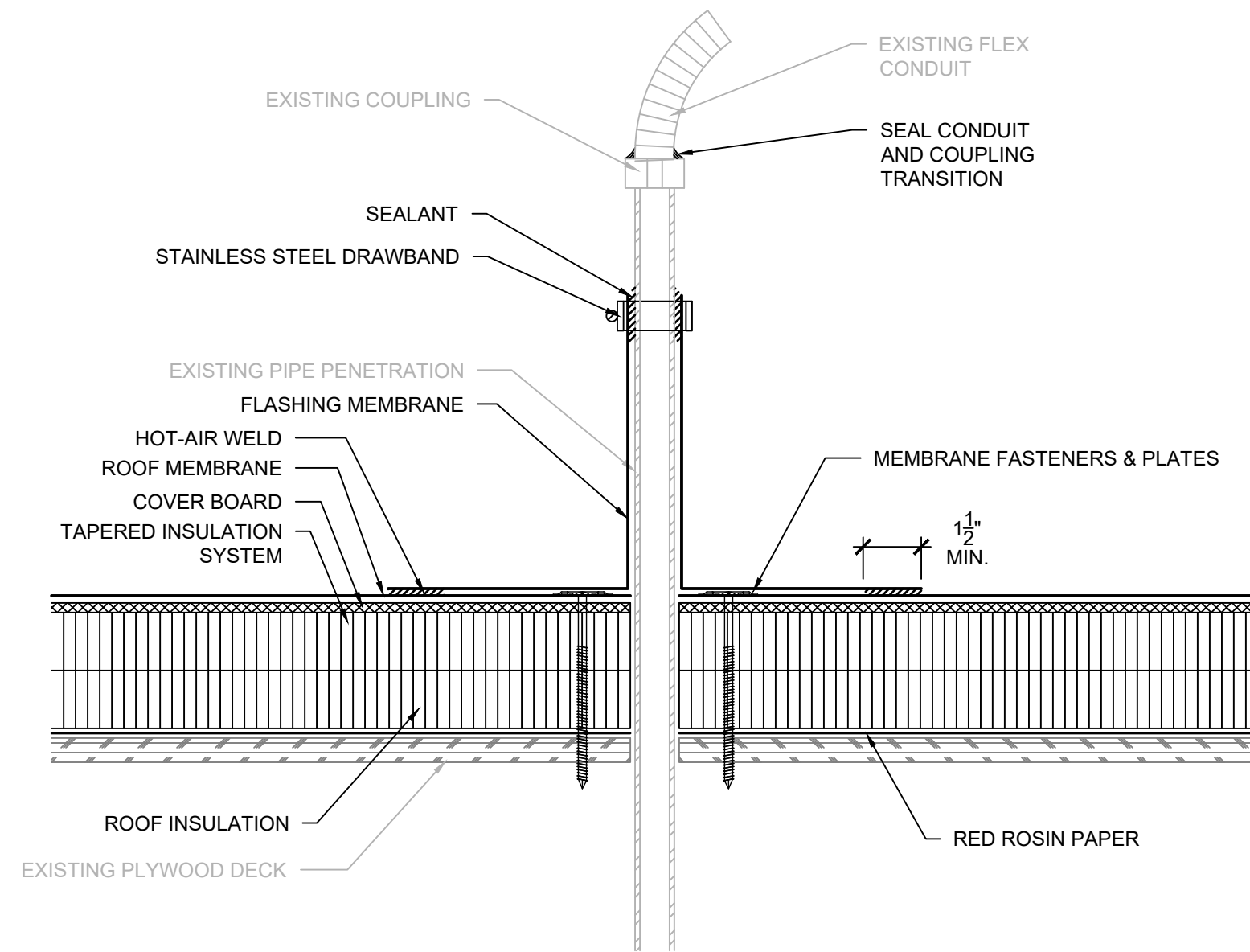
XR301



- NOTES:
1. EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

1 PRE-FABRICATED PIPE PENETRATION

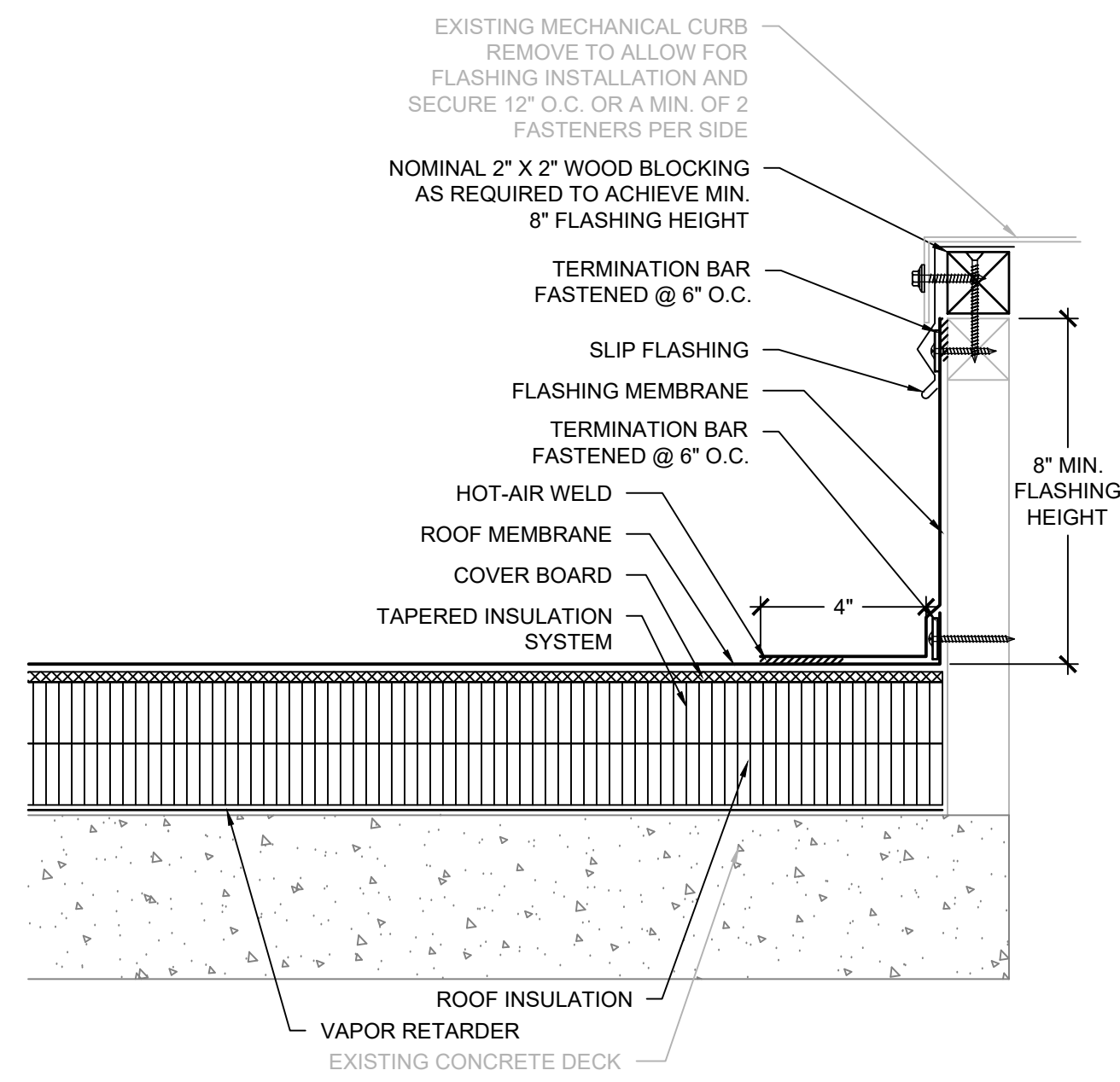
SCALE: 3" = 1'-0"



- NOTES:
1. EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

2 CONDUIT PENETRATION

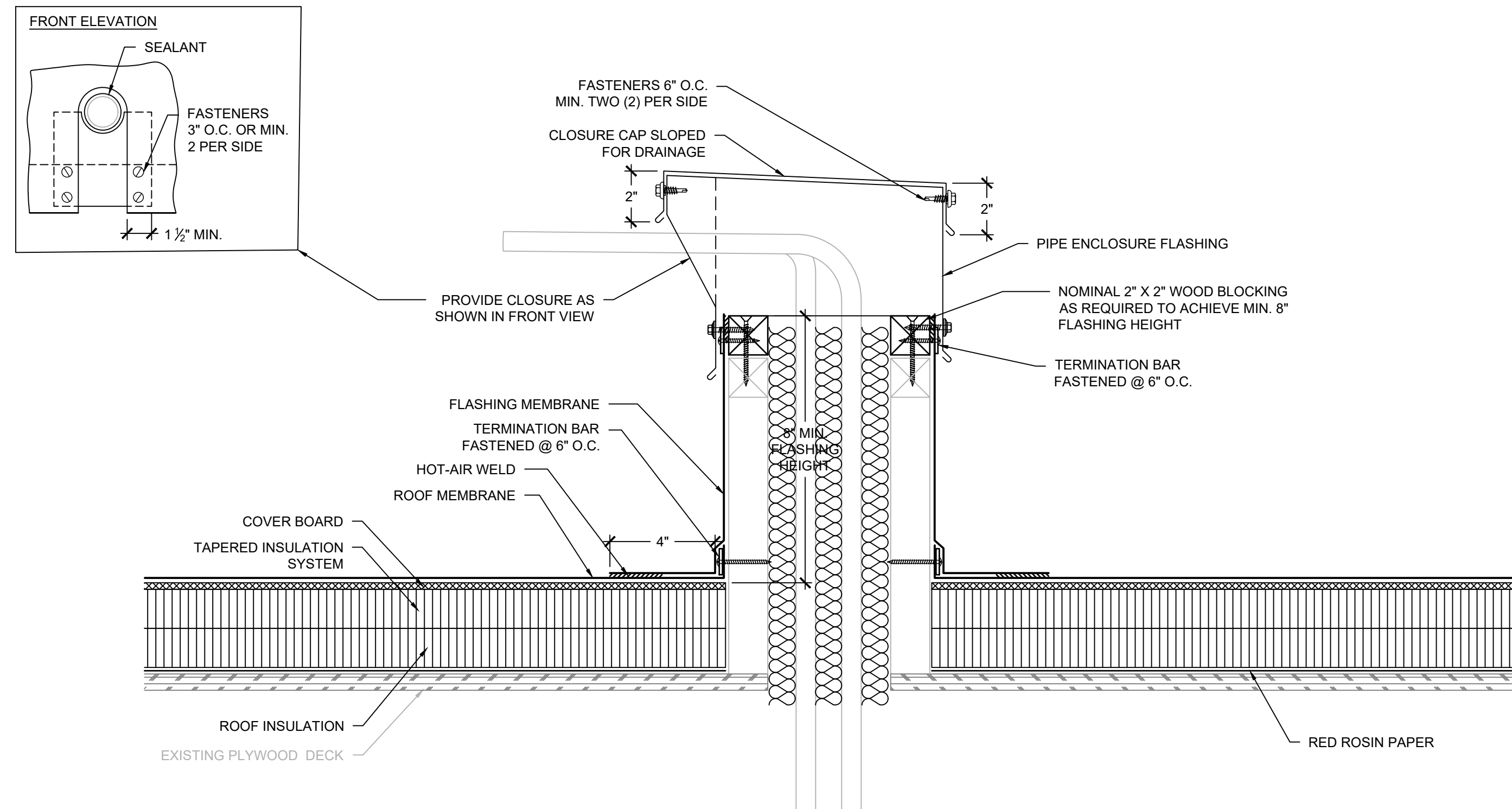
SCALE: 3" = 1'-0"



- NOTES:
1. PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 2. EXTEND CURB HEIGHT AND/OR PROVIDE WOOD NAILERS TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

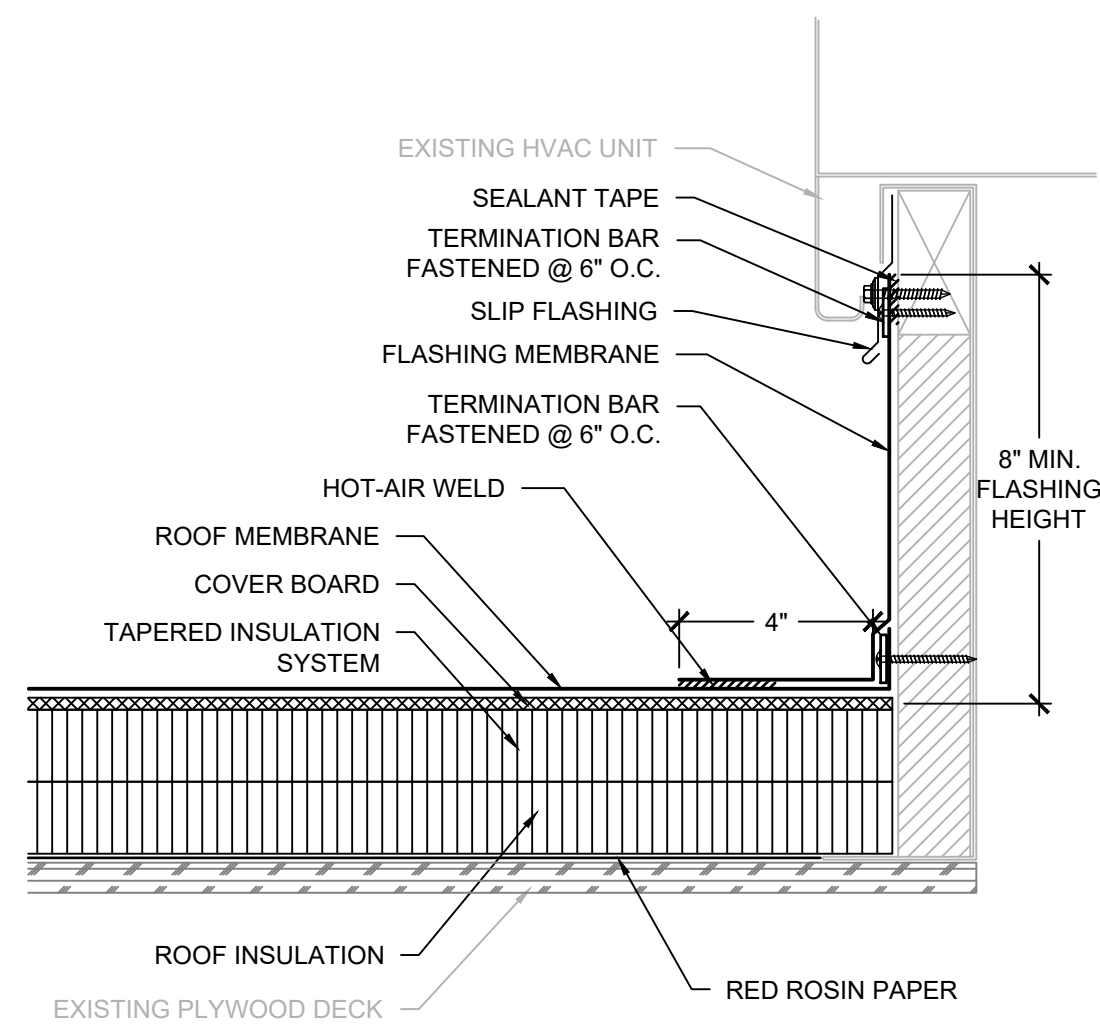
3 MECHANICAL CURB

SCALE: 3" = 1'-0"



4 MULTIPLE PIPE PENETRATION CURB

SCALE: 3" = 1'-0"



- NOTES:
1. PROPERLY DISCONNECT UNIT TO RAISE AND ALLOW FLASHING INSTALLATION THEN PROPERLY REINSTALL AND CONNECT.
 2. EXTEND PIPE PENETRATION TO PROVIDE MINIMUM 8" FLASHING HEIGHT.

5 HVAC UNIT

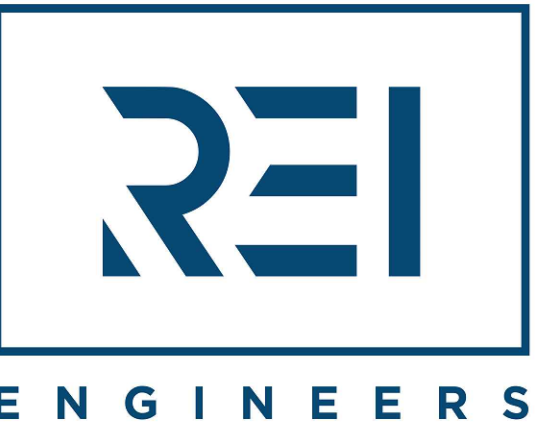
SCALE: 3" = 1'-0"

GENERAL NOTES:

1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.

SHEET NOTES:

1. FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
2. ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



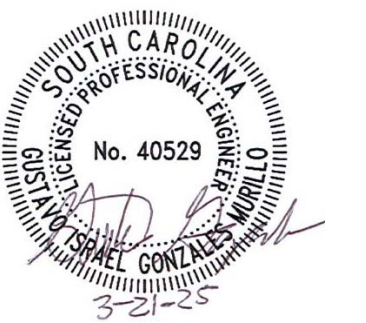
Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

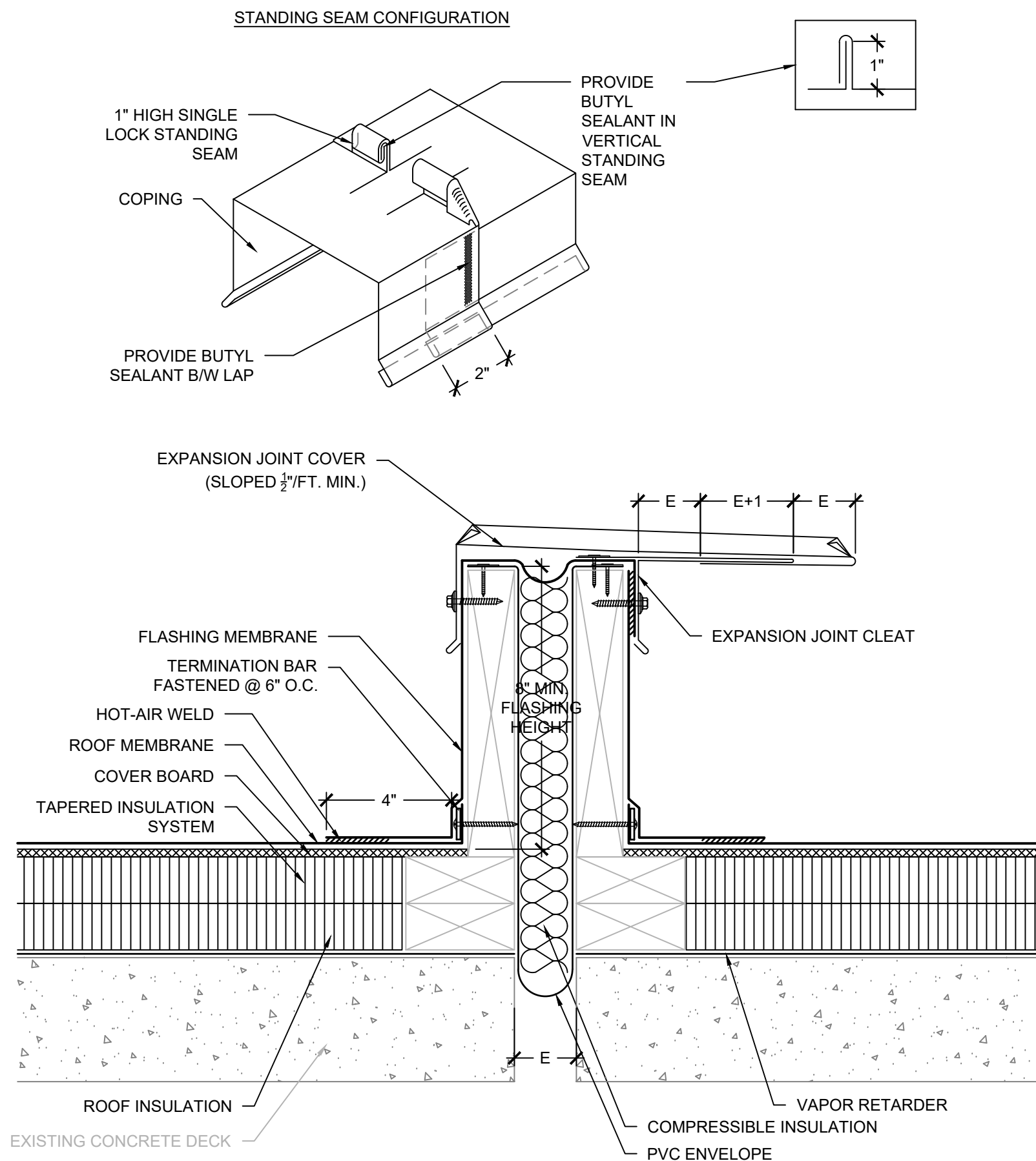
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

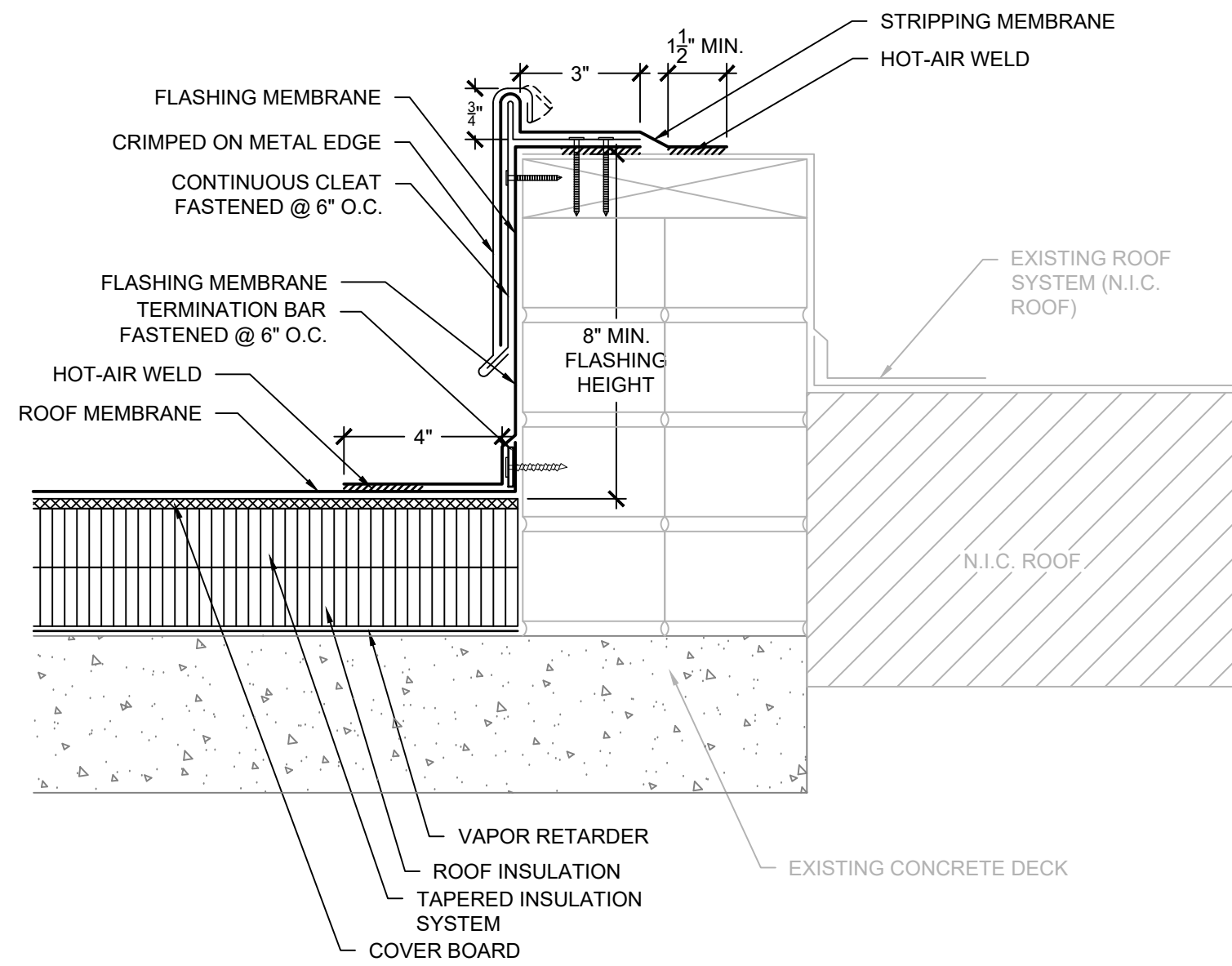
DETAILS

DRAWING

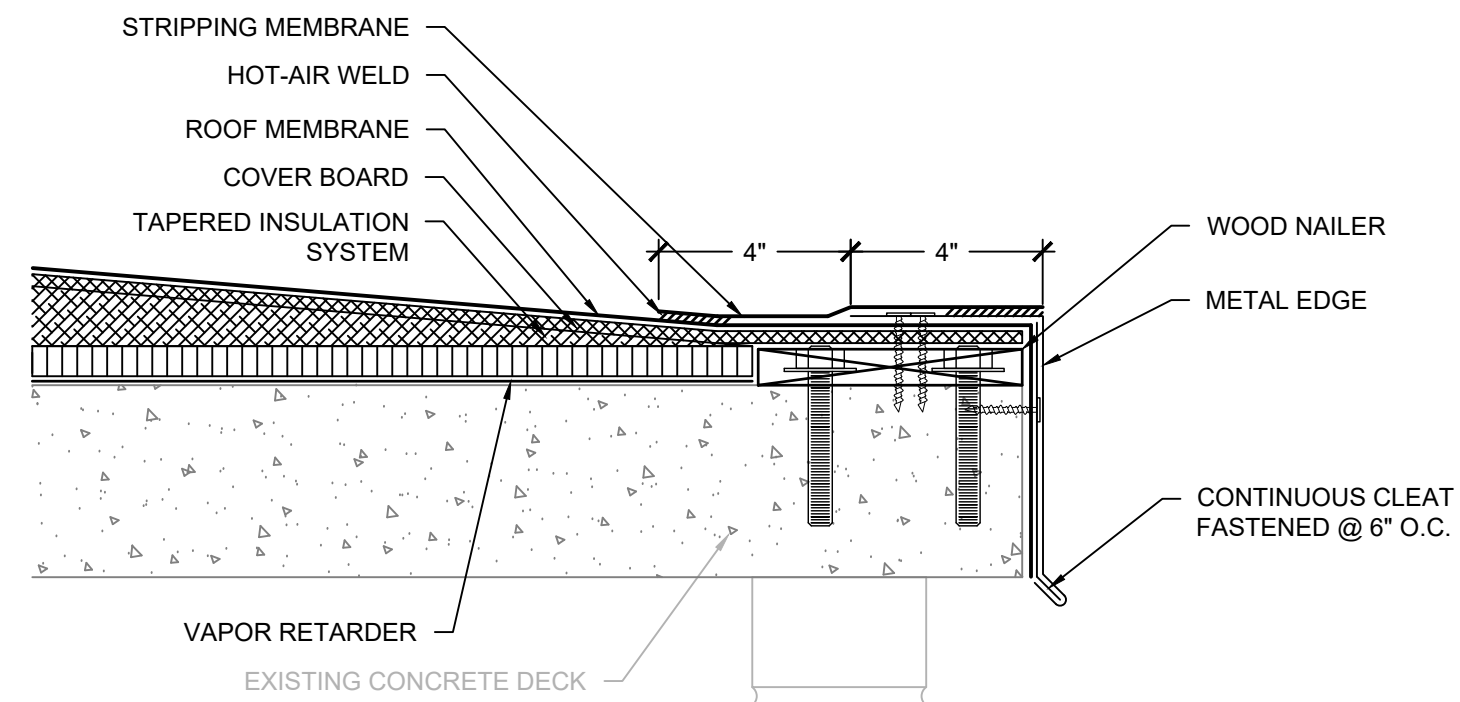
XR501



6 EXPANSION JOINT
SCALE: 3" = 1'-0"

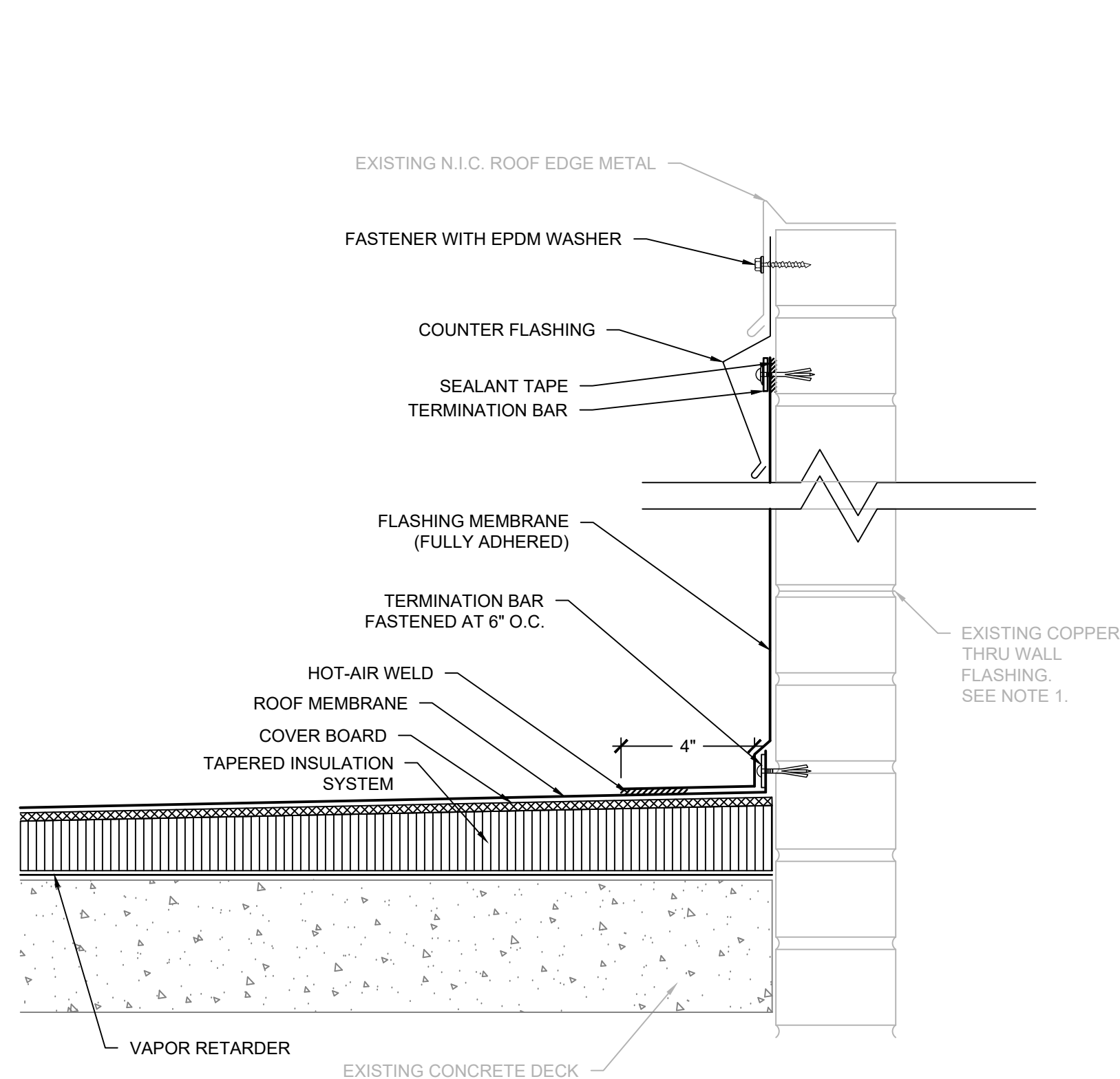


7 ROOF AREA 1 TO N.I.C. ROOF
SCALE: 3" = 1'-0"

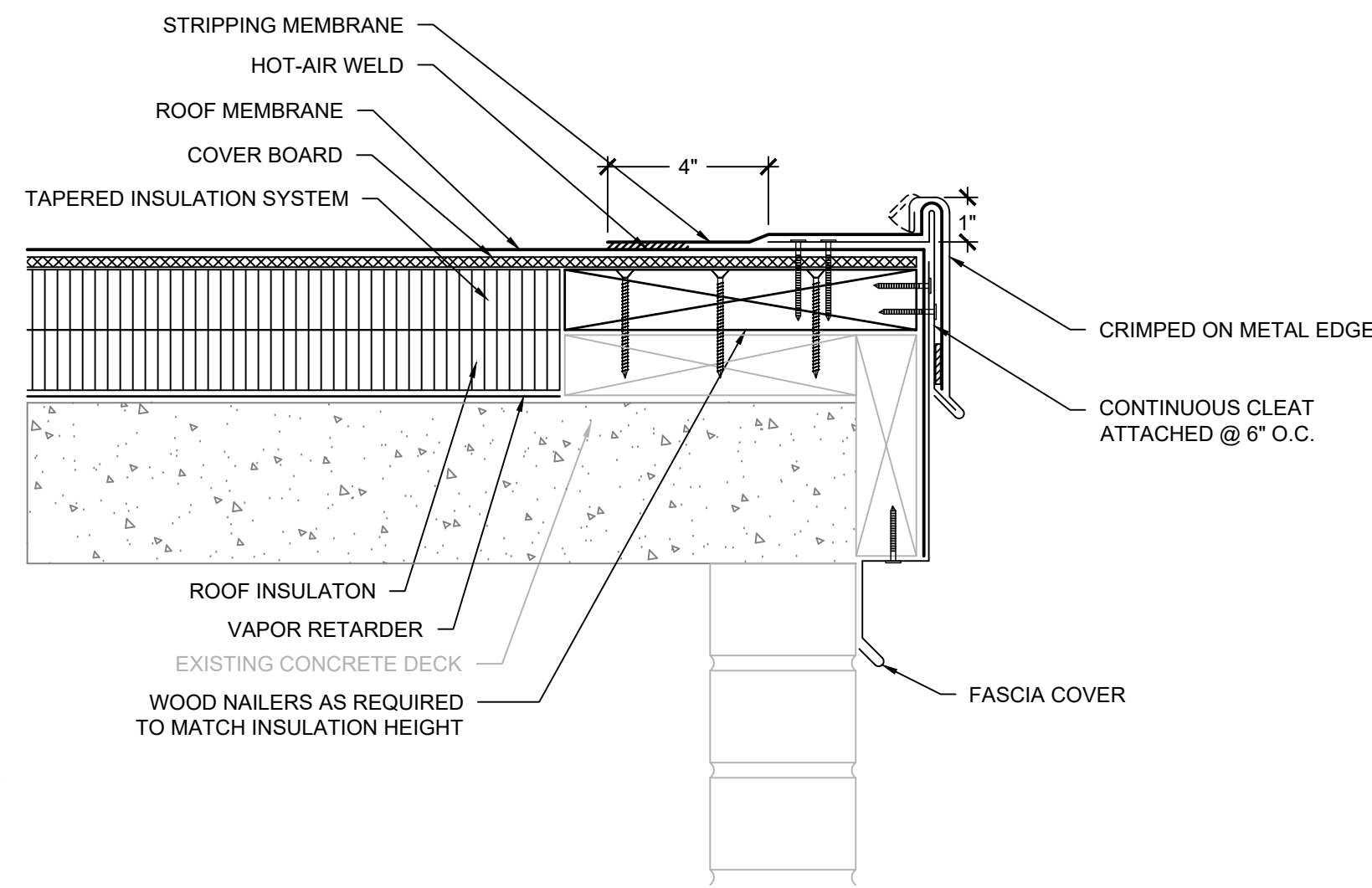


- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.

8 ROOF EDGE
SCALE: 3" = 1'-0"



9 ELEVATION WALL FLASHING
SCALE: 3" = 1'-0"



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.
 2. EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND UPLIFT PRESSURES SPECIFIED IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2. CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND UPLIFT PRESSURES.
 3. PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

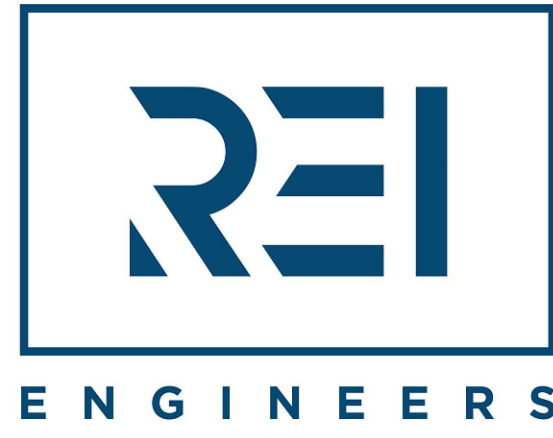
10 CRIMPED ON METAL EDGE
SCALE: 3" = 1'-0"

GENERAL NOTES:

1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.

SHEET NOTES:

1. FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
2. ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:
DORCHESTER SCHOOL DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF REPLACEMENT AND EXTERIOR WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON THE ORIGINAL DRAWING

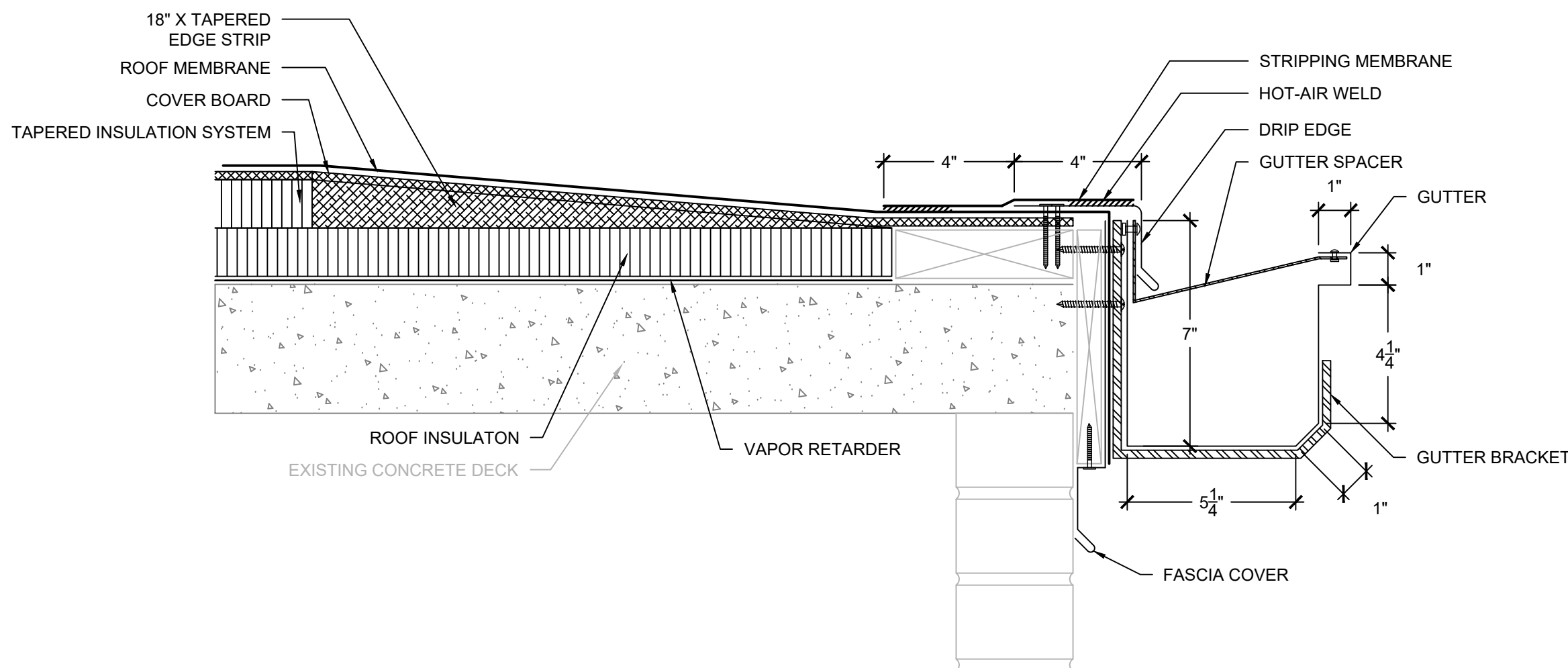
IF IT IS NOT 1 INCH ON THIS PAGE, SCALE DRAWING ACCORDINGLY.

SHEET TITLE

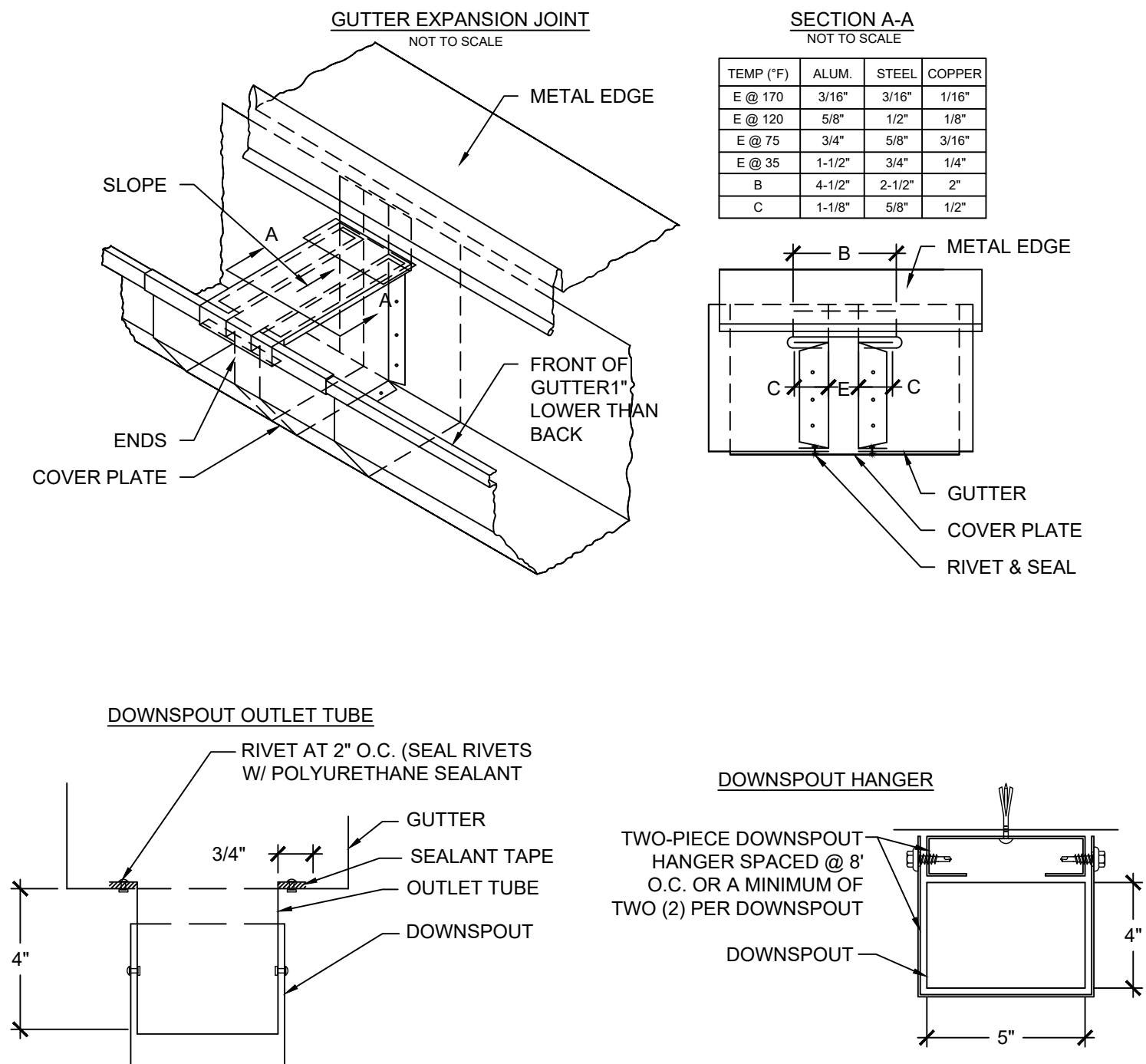
DETAILS

DRAWING

XR502

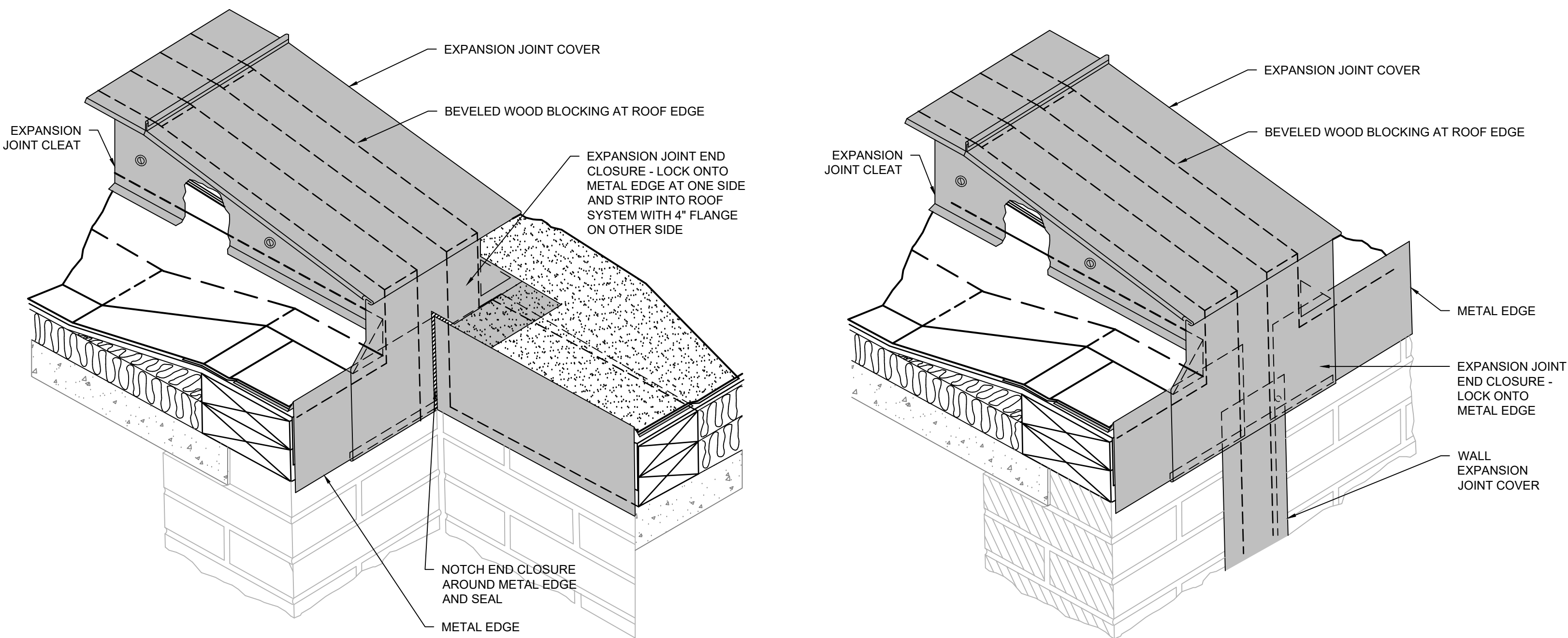


- NOTES:
- CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION AND TO CONFIRM DETAIL AS SHOWN WILL PROVIDE POSITIVE DRAINAGE WITHOUT PONDING WATER. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
 - PROVIDE GUTTER WITH SIZES INDICATED AND 4"x3" DOWNSPOUTS.



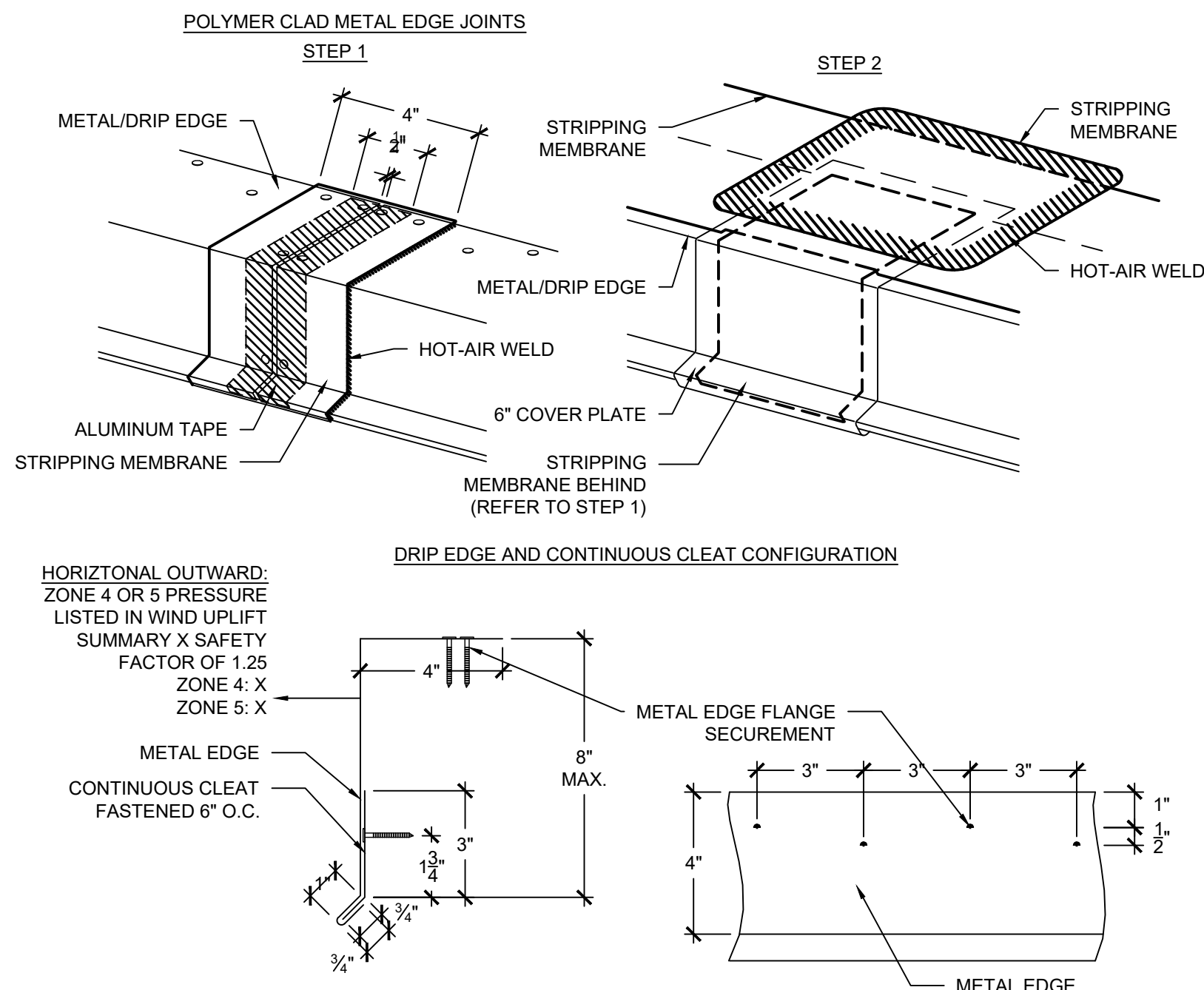
12 GUTTER/DOWNSPOUT COMPONENTS

SCALE: 3" = 1'-0"



- NOTES:
- EXPANSION JOINT END CLOSURE IS FOR GENERAL INFORMATION ONLY AND MAY NOT DEPICT ACTUAL CONFIGURATION OF COMPONENTS. REFER TO THE SPECIFIED DETAIL FOR ACTUAL CONFIGURATION OF COMPONENTS.

- NOTES:
- EXPANSION JOINT END CLOSURE IS FOR GENERAL INFORMATION ONLY AND MAY NOT DEPICT ACTUAL CONFIGURATION OF COMPONENTS. REFER TO THE SPECIFIED DETAIL FOR ACTUAL CONFIGURATION OF COMPONENTS.



- NOTES:
- EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND PRESSURES SPECIFIED IN WIND UPLIFT SUMMARY IN ACCORDANCE WITH ANSI/SPRI ES-1 TEST METHODS RE-1 AND RE-2.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND PRESSURES.
 - PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

GENERAL NOTES:

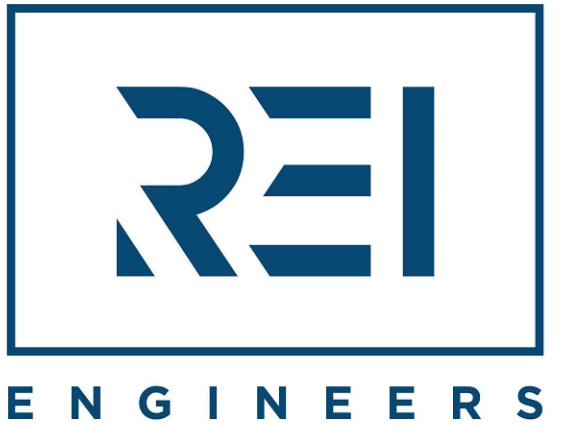
- THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
- DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.

SHEET NOTES:

- FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
- ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.

15 POLYMER CLAD DRIP EDGE ATTACHMENT AND LAPS

SCALE: 3" = 1'-0"



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

DETAILS

DRAWING

XR503

11 GUTTER EDGE

SCALE: 3" = 1'-0"

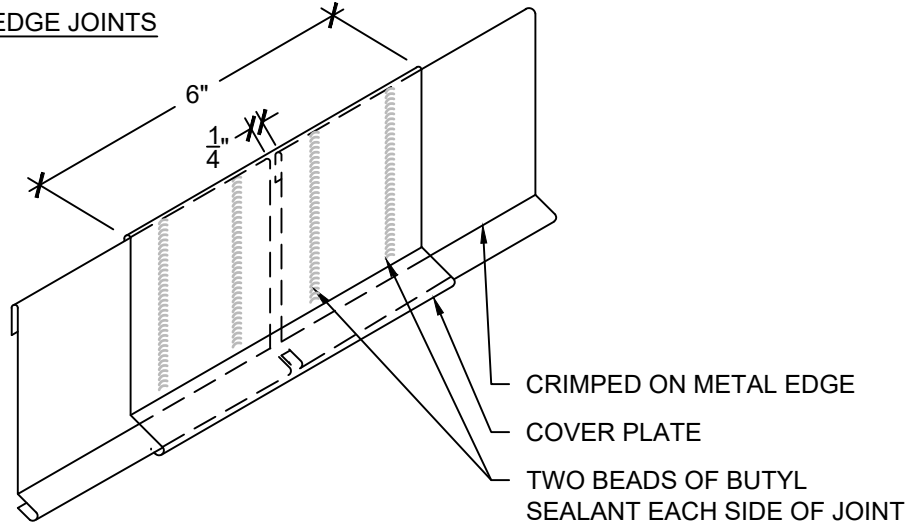
13 EXPANSION JT. INSIDE CORNER CLOSURE

SCALE: N.T.S

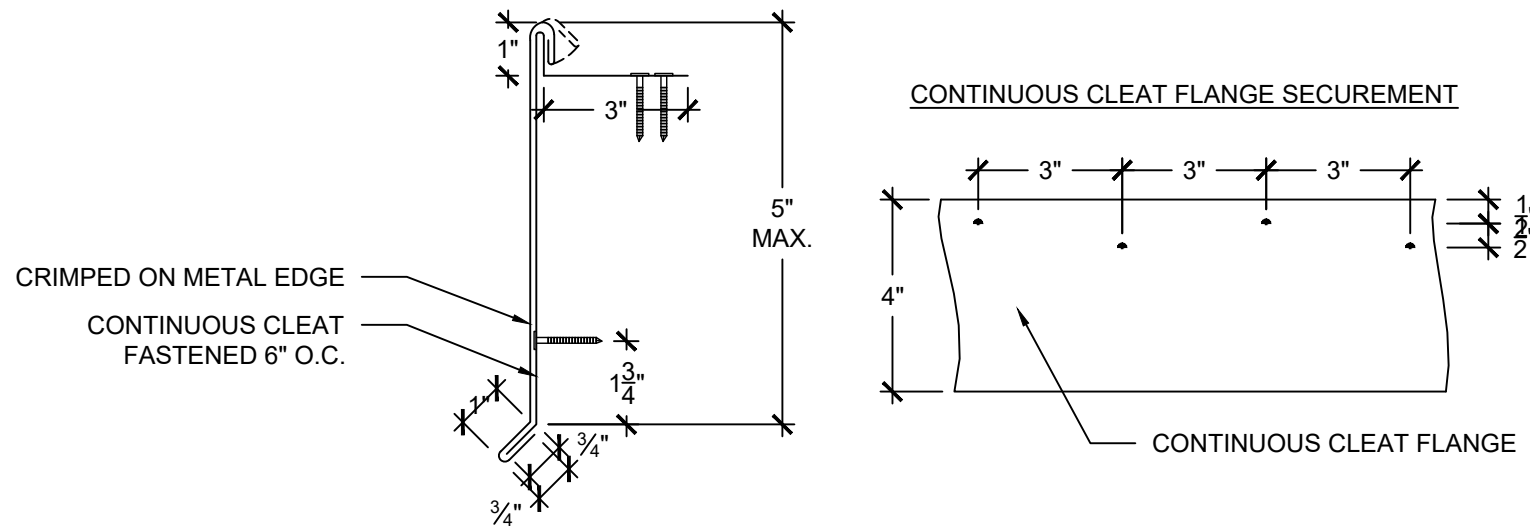
14 EXPANSION JOINT END CLOSURE

SCALE: N.T.S

CRIMPED ON METAL EDGE JOINTS



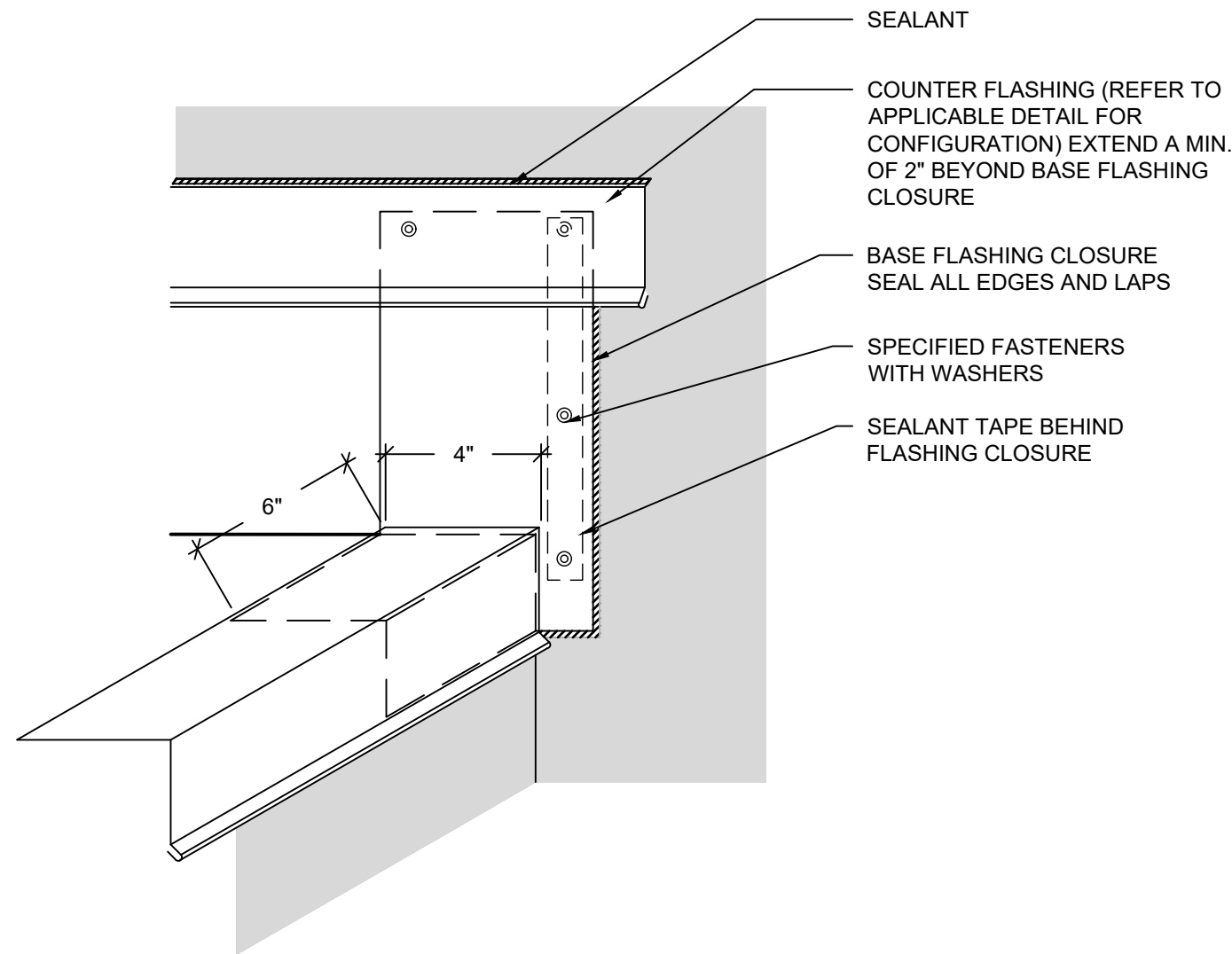
CRIMPED ON METAL EDGE CONFIGURATION



- NOTES:
- EDGE METAL SHALL BE TESTED FOR RESISTANCE TO WIND PRESSURES SPECIFIED IN WIND UPLIFT SUMMARY IN ACCORDANCE WITH ANSIS/PRI ES-1 TEST METHODS RE-1 AND RE-2.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWING DEPICTING SHEET METAL COMPONENTS WITH DIMENSIONS AND PROVIDE EVIDENCE OF TESTING TO RESIST THE SPECIFIED WIND PRESSURES.
 - PROVIDE SEPARATE FASCIA COVER EXTENSION WHERE EDGE METAL DIMENSIONS EXCEED ALLOWABLE TESTED ASSEMBLY REQUIREMENTS.

16 CRIMPED ON METAL EDGE COMPONENTS

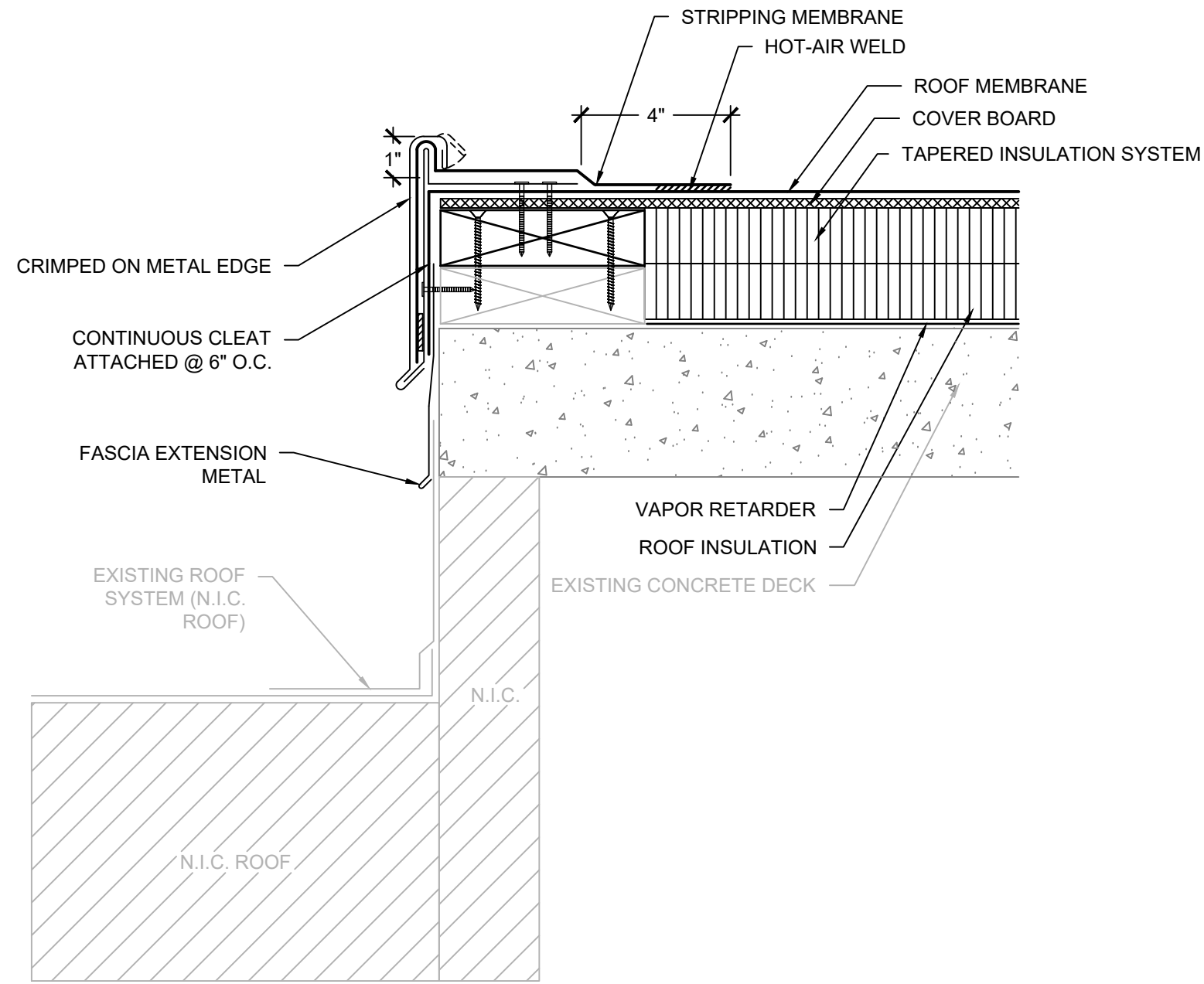
SCALE: 3" = 1'-0"



- NOTES:
- MEMBRANE AND FLASHING/STRIPPING MEMBRANE NOT SHOWN FOR CLARITY.
 - BASE FLASHING CLOSURE TO BE INSTALLED CONCURRENTLY WITH METAL EDGE AND STRIPPED INTO MEMBRANE WITH HOT-AIR WELDED STRIPPING PLY.

17 BASE FLASHING CLOSURE

SCALE: 3" = 1'-0"



- NOTES:
- CONTRACTOR SHALL FIELD VERIFY EXISTING ROOF EDGE CONSTRUCTION AND COMPONENTS PRIOR TO SHEET METAL FABRICATION.

18 ROOF AREA 2 TO N.I.C. ROOF

SCALE: 3" = 1'-0"

GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
SHEET NOTES:
1. FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
2. ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

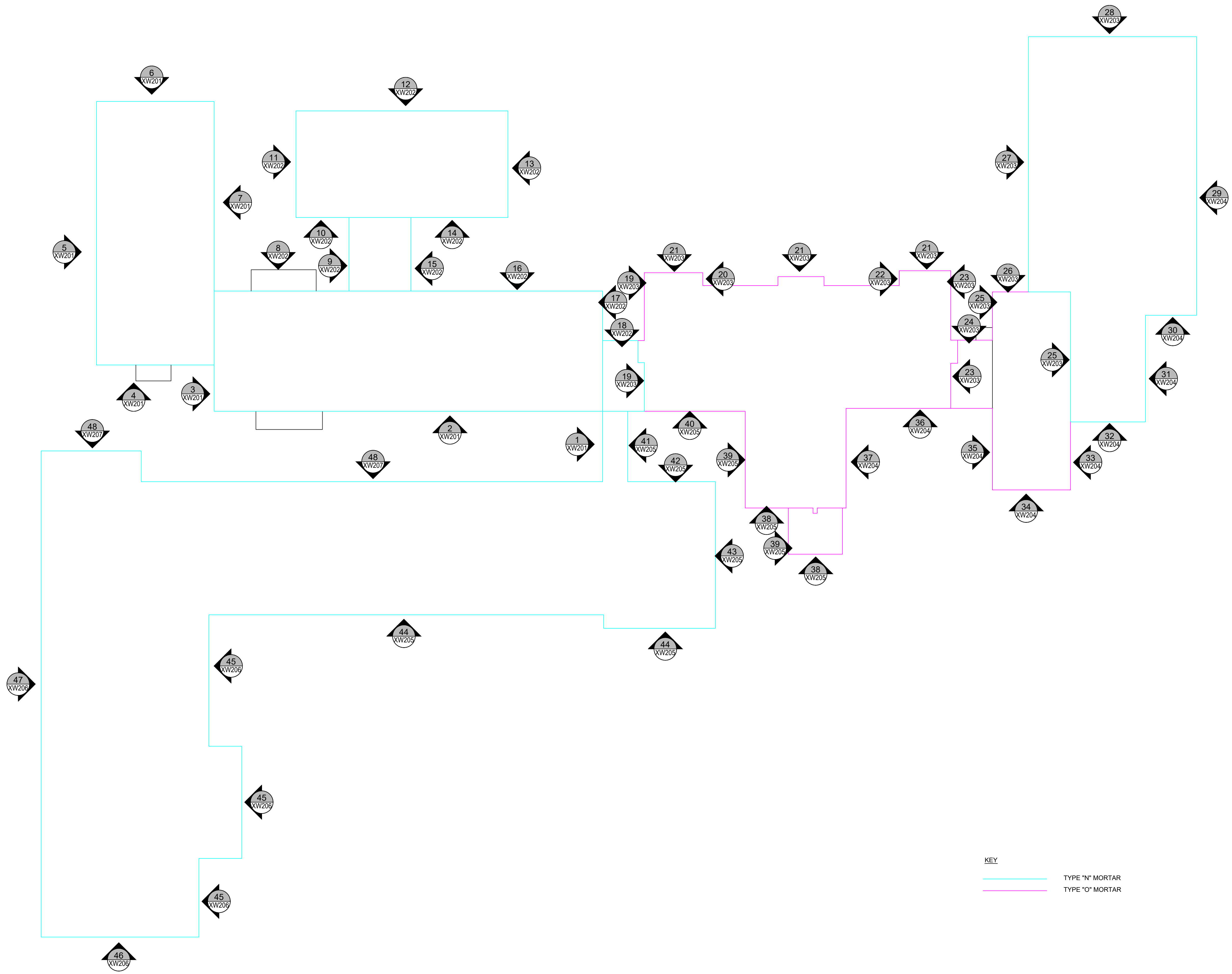
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

DETAILS

DRAWING

XR504



ENGINEERS

Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

**BUILDING
ELEVATIONS
KEY PLAN**

DRAWING

XW101



GENERAL NOTES:

1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
5. POWER WASH ALL EXTERIOR WALLS AFTER WORK HAS BEEN COMPLETED.

SHEET NOTES:

1. REPOINT BRICK MASONRY MORTAR JOINTS AS SPECIFIED IN SECTION 04 05 24 "MASONRY REPOINTING". REFER TO DETAIL 5 ON SHEET XW501.
2. REMOVE EXISTING CONTROL JOINT SEALANT AND BACKER ROD, IF ANY, AROUND PERIMETER OF DOORS/WINDOWS. PROPERLY PREPARE SUBSTRATE AND PROVIDE AND INSTALL BACKER ROD AND SEALANT. REFER TO SPECIFICATION SECTION 07 92 00 "ELASTOMERIC JOINT SEALANT". REMOVE AND REINSTALL ANY EXISTING COMPONENTS AS NECESSARY TO PROPERLY PERFORM WORK INDICATED.
3. REMOVE EXISTING WEEP TUBES AT LINTEL. PREPARE, PRIME AND PAINT EXISTING LINTEL. PROVIDE NEW SPECIFIED WEEPS SPACED A MAX OF 16" O.C.
4. SEAL PENETRATIONS IN THE EXTERIOR WALLS AS SPECIFIED. REFER TO DETAIL 3 ON SHEET XW501.
5. PROPERLY REATTACH METAL SOFFIT PANEL.
6. PREPARE, PRIME AND PAINT EXTERIOR, INTERIOR AND SIDES OF EXTERIOR DOORS AND FRAMES. REFER TO SPECIFICATION SECTION 09 91 13 "EXTERIOR PAINT".
7. PROVIDE AND INSTALL MISSING WINDOW GRILLE TO MATCH ORIGINAL.
8. PREPARE, PRIME AND PAINT DAMAGED OR PEELING PAINT AREAS TO MATCH EXISTING COLOR.
9. CUT BACK EXISTING WINDOW GASKET FLUSH WITH THE WINDOW FRAME. PROVIDE AND INSTALL NEW BOND BREAKER TAPE AND GLAZING SEALANT AT INSIDE PERIMETER OF WINDOW AS SPECIFIED IN SECTION 07 92 00

- "ELASTOMERIC JOINT SEALANTS". REFER TO DETAIL 6 ON SHEET XW501.
10. CUT NEW CONTROL JOINT AND PROPERLY PREPARE SUBSTRATE TO RECEIVE NEW BACKER ROD AND SEALANT. REFER TO SPECIFICATION SECTION 07 92 00 "ELASTOMERIC JOINT SEALANT". REFER TO DETAIL 4 ON SHEET XW501.
 11. PROVIDE AND INSTALL PVC CONDENSATE PIPE TO ATTACH TO EXISTING WALL CONDUIT PENETRATION. EXTEND PIPE DOWN WALL TO DRAIN ONE FOOT ABOVE GRADE.
 12. REPLACE DAMAGED BRICK MASONRY UNITS AS SPECIFIED IN SECTION 04 20 00 "UNIT MASONRY".
 13. REMOVE DAMAGED WOOD SOFFIT. PROVIDE AND INSTALL NEW WOOD SOFFIT TO MATCH EXISTING. PAINT AREA TO MATCH EXISTING ADJACENT SOFFIT. REFER TO DETAIL 1 ON SHEET XW-501.
 14. PROVIDE OR REUSE SALVAGEABLE BRICK TO REPAIR FOUNDATION VENT BARRIER BRICK WALL. REPAIRED WALL TO MATCH ADJACENT VENT BARRIERS BRICK WALLS.
 15. CUT OUT EXISTING MORTAR BETWEEN CONCRETE WINDOW SILL AND BRICK WALL. PROPERLY PREPARE SUBSTRATE TO RECEIVE NEW BACKER ROD AND SEALANT. REFER TO SPECIFICATION SECTION 07 92 00 "ELASTOMERIC JOINT SEALANT".
 16. REMOVE DAMAGED WOOD TRIM BOARDS AT WINDOW FRAMES PROVIDE AND INSTALL NEW WOOD TRIM BOARDS TO MATCH EXISTING SIZE. PAINT AREA TO MATCH ADJACENT WINDOW FRAMES. REFER TO SECTION 08 01 52 "WOOD WINDOW REPAIRS".
 17. REPAIR DAMAGED CAST-IN-PLACE CONCRETE AS SPECIFIED IN SECTION 03 01 30.71 "REHABILITATION OF CAST-IN-PLACE CONCRETE".
 18. PROPERLY PREPARE SUBSTRATE AND ADHERE MEMBRANE AT BASE OF WALL WHERE IT HAS RELEASED FROM THE SUBSTRATE. PROVIDE AND INSTALL TERMINATION BAR AND SEALANT AT TOP OF MEMBRANE. REFER TO DETAIL 2 ON SHEET XW501.
 19. REMOVE AND DISPOSE OF EXISTING ABANDONED PENETRATIONS AND REPAIR WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION. PAINT AREA TO MATCH ADJACENT CONDITIONS.
 20. REMOVE AND DISPOSE OF EXISTING HARDWARE AND FRAME. PROVIDE AND INSTALL DOOR, HARDWARE AND FRAME AS SPECIFIED IN SECTION 08 11 13 "HOLLOW METAL DOORS AND HARDWARE". PAINT EXTERIOR, SIDES AND INTERIOR OF DOOR, HARDWARE AND FRAME.
 21. REMOVE AND DISPOSE OF EXISTING HARDWARE AND FRAME. PROVIDE AND INSTALL DOOR COMPATIBLE WITH EXISTING DOOR FRAME. REFER TO SECTION 08 11 13 "HOLLOW METAL DOORS AND HARDWARE". PAINT EXTERIOR, SIDES AND INTERIOR OF DOOR, HARDWARE AND FRAME.

22. REPAIR DAMAGED STUCCO. PAINT AREA TO MATCH ADJACENT WALL. REFER TO SECTION 09 24 01 "PORTLAND CEMENT PLASTER (STUCCO) REPAIR"
23. PROVIDE AND INSTALL SHEET METAL FLASHING OVER EXISTING PLYWOOD AROUND UNIT PENETRATION. PROPERLY SECURE METAL FLASHING. PROVIDE AND INSTALL SEALANT AROUND METAL FLASHING PERIMETER AND AROUND UNIT PENETRATION.
24. REMOVE EXISTING CONTROL JOINT SEALANT AND BACKER ROD. PROPERLY PREPARE SUBSTRATE AS DETERMINED FROM SAMPLE ADHESION TESTS AND PROVIDE AND INSTALL BACKER ROD AND SEALANT. REMOVE AND REINSTALL ANY EXISTING COMPONENTS AS NECESSARY TO PROPERLY PERFORM WORK INDICATED. REFER TO SPECIFICATION SECTION 07 92 00 "ELASTOMERIC JOINT SEALANT".
25. REMOVE AND DISPOSE OF EXISTING HARDWARE AND FRAME. PROVIDE AND INSTALL NEW DOOR FRAME AND HARDWARE COMPATIBLE WITH EXISTING DOOR. REMOVE EXISTING DOOR AND STORE AS NEEDED TO COMPLETE WORK. REINSTALL EXISTING DOOR TO NEW FRAME. PAINT EXTERIOR, SIDES AND INTERIOR OF DOOR, HARDWARE AND FRAME. REFER TO SECTION 08 11 13 "HOLLOW METAL DOORS AND HARDWARE".
26. REPOINT CONCRETE MASONRY UNIT (CMU) MORTAR JOINTS AS SPECIFIED IN SECTION 04 05 24 "MASONRY REPOINTING". PAINT AREA TO MATCH ADJACENT WALL.
27. PROVIDE AND INSTALL METAL CLOSURE WHERE EXISTING GUTTER TERMINATES AT WALL. PROPERLY SEAL METAL CLOSURE TO WALL.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

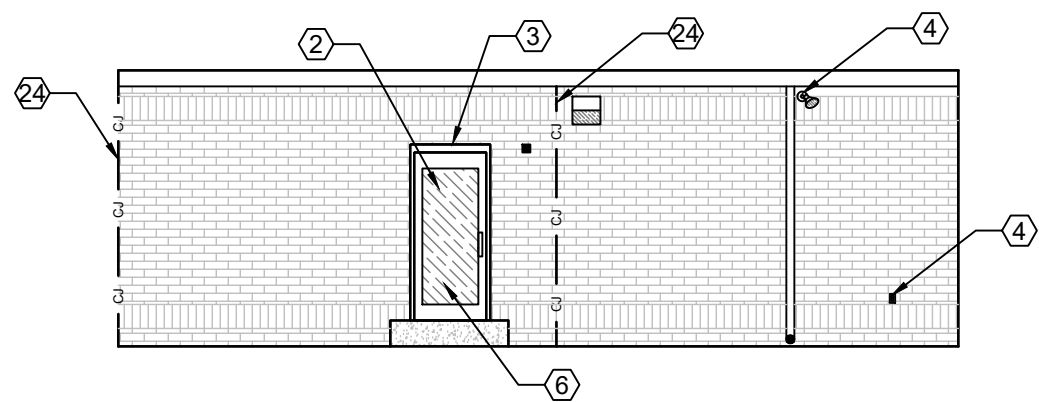
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

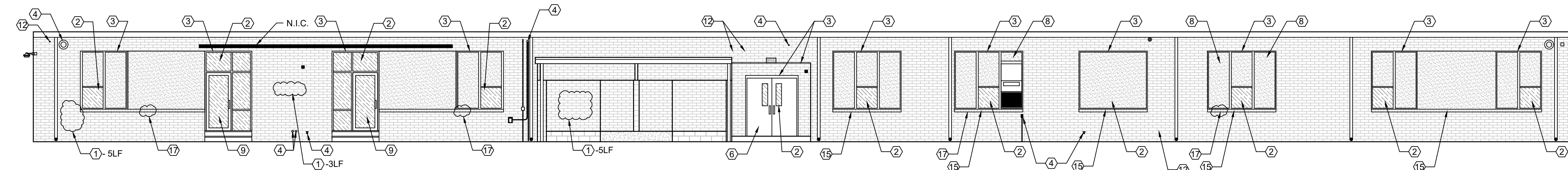
ELEVATION NOTES

DRAWING

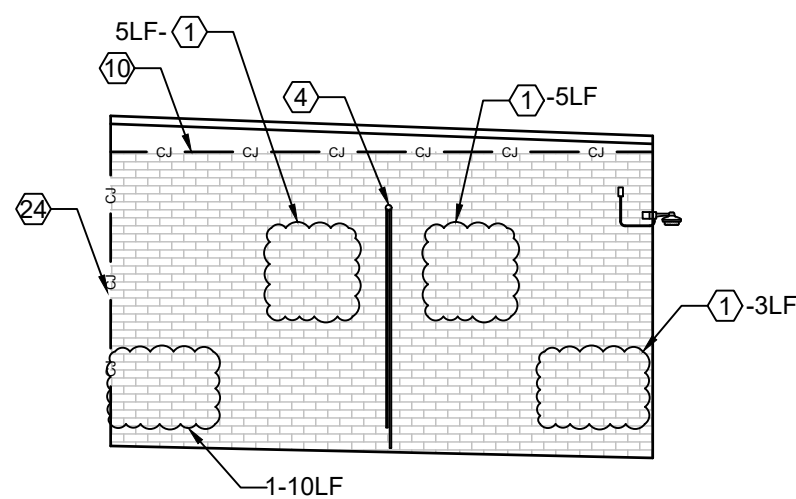
XW102



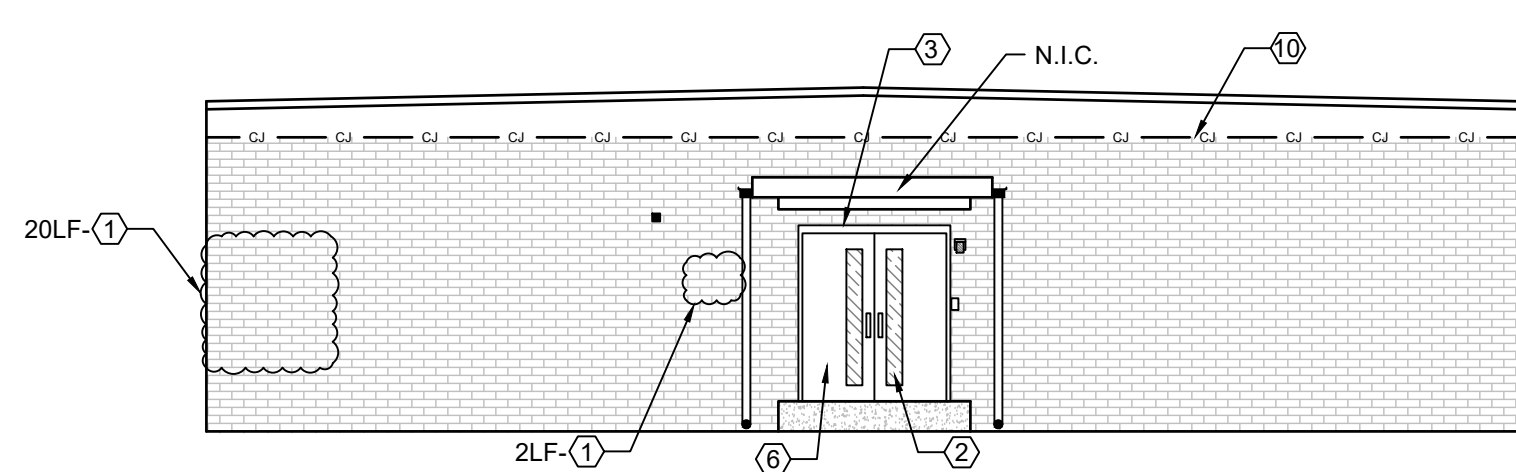
1 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



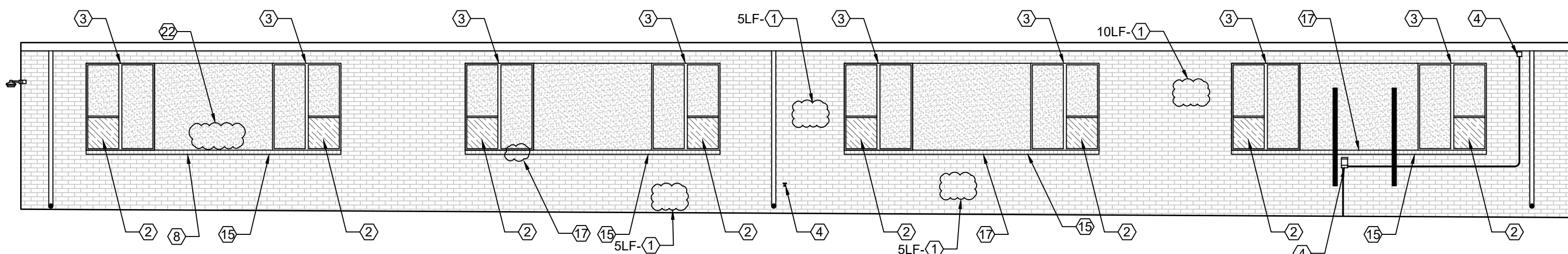
2 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



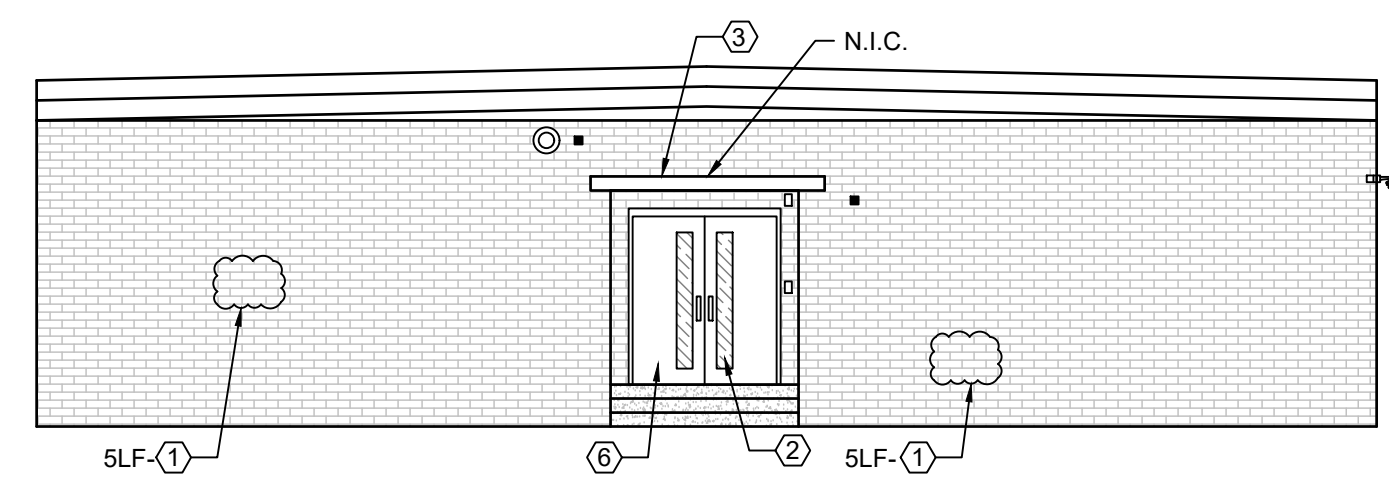
3 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



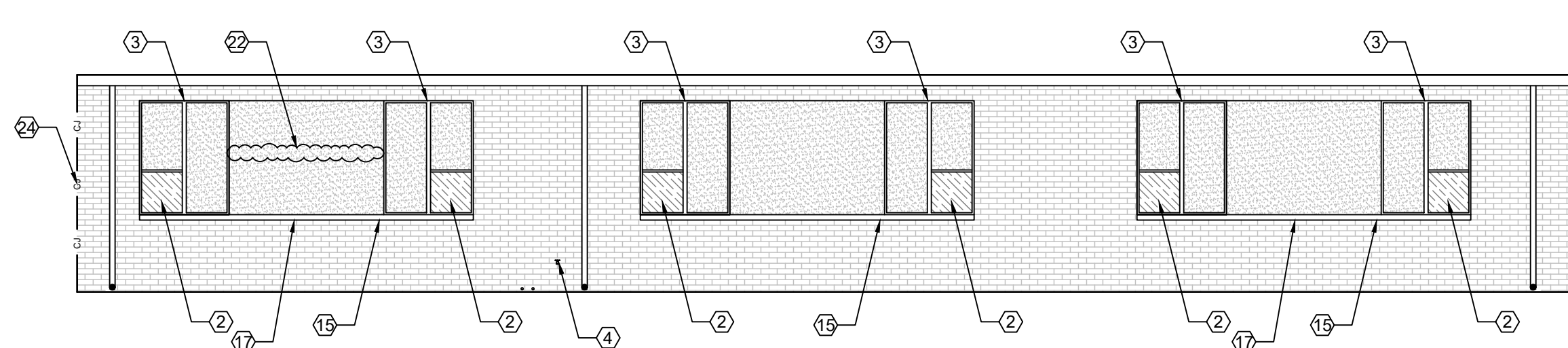
4 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



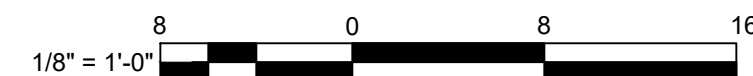
5 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



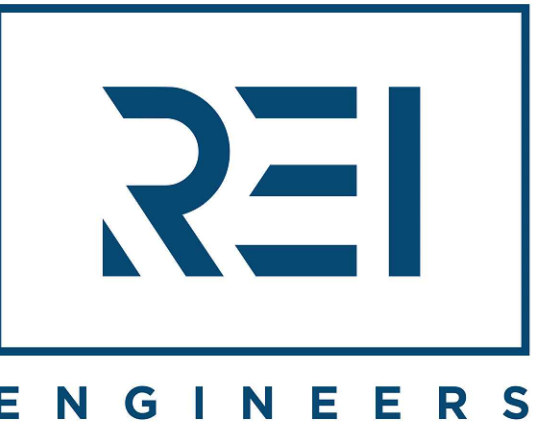
6 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



7 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



- GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THEREOF. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
 2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
 3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
 4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
 5. POWER WASH ALL EXTERIOR WALLS AFTER WORK HAS BEEN COMPLETED.
- SHEET NOTES:
1. SEE SHEET NOTES ON SHEET XW102



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:
**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:
024CHS-057

ISSUE:		
NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING
IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

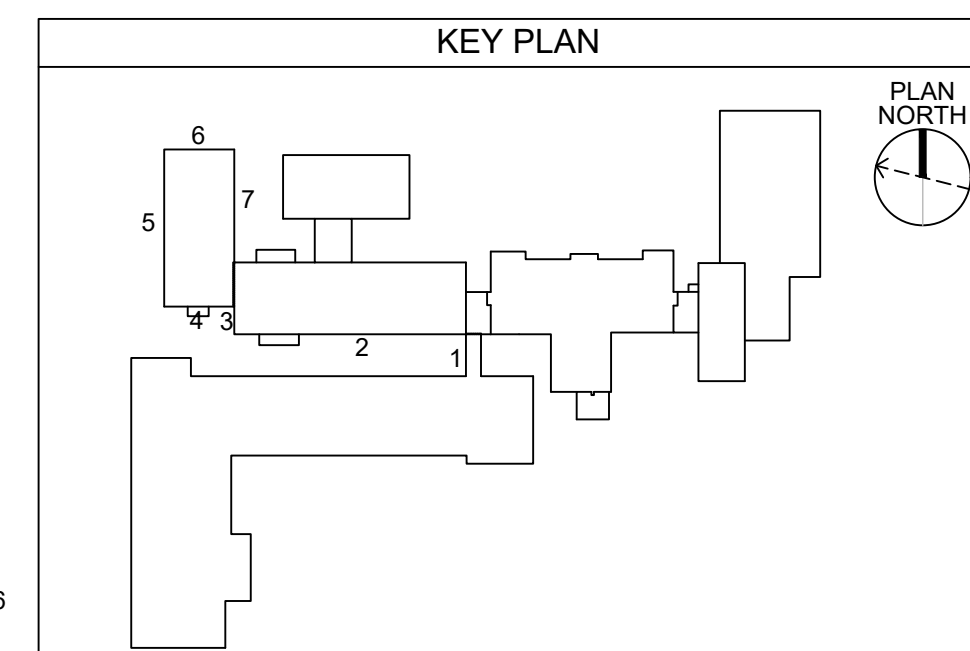
SHEET TITLE

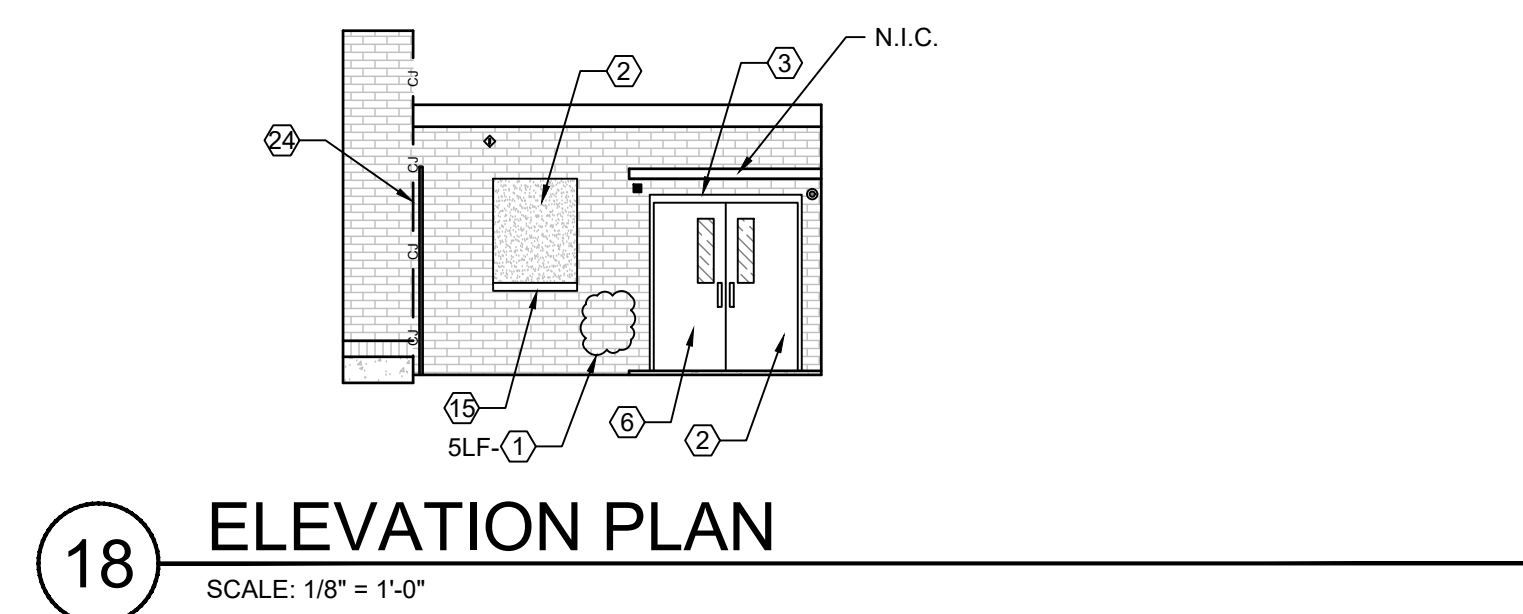
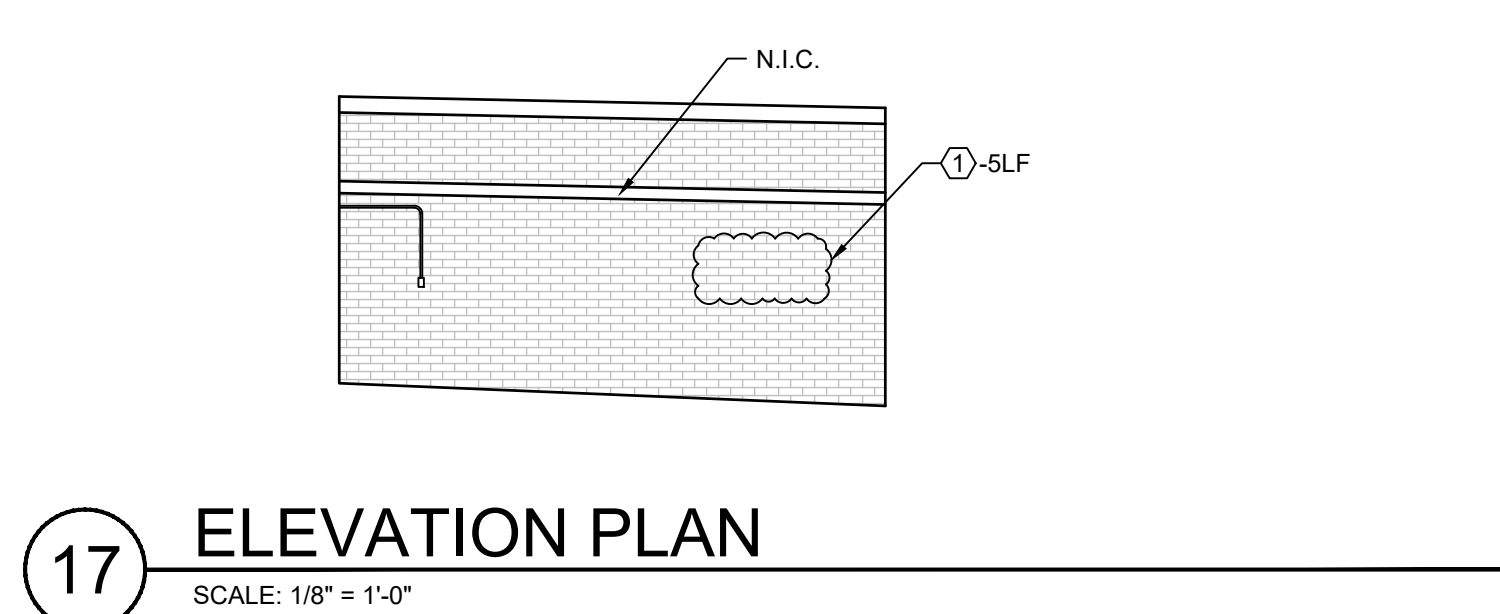
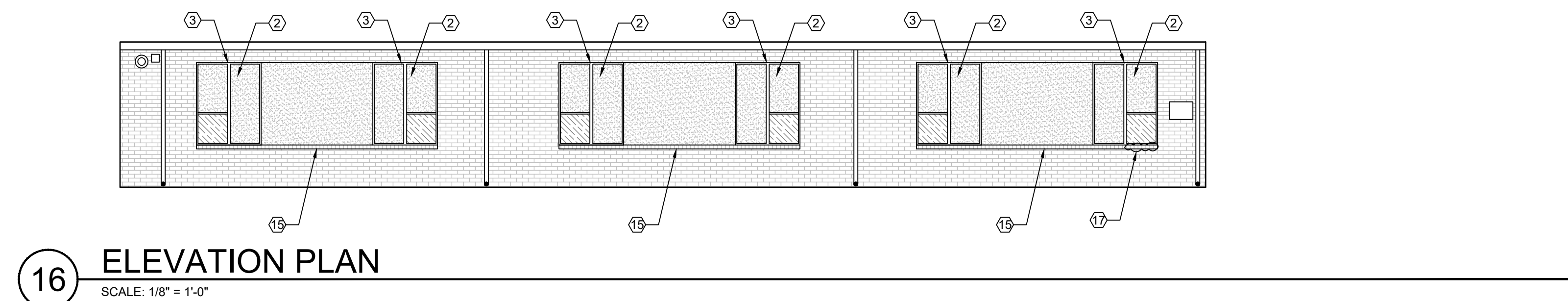
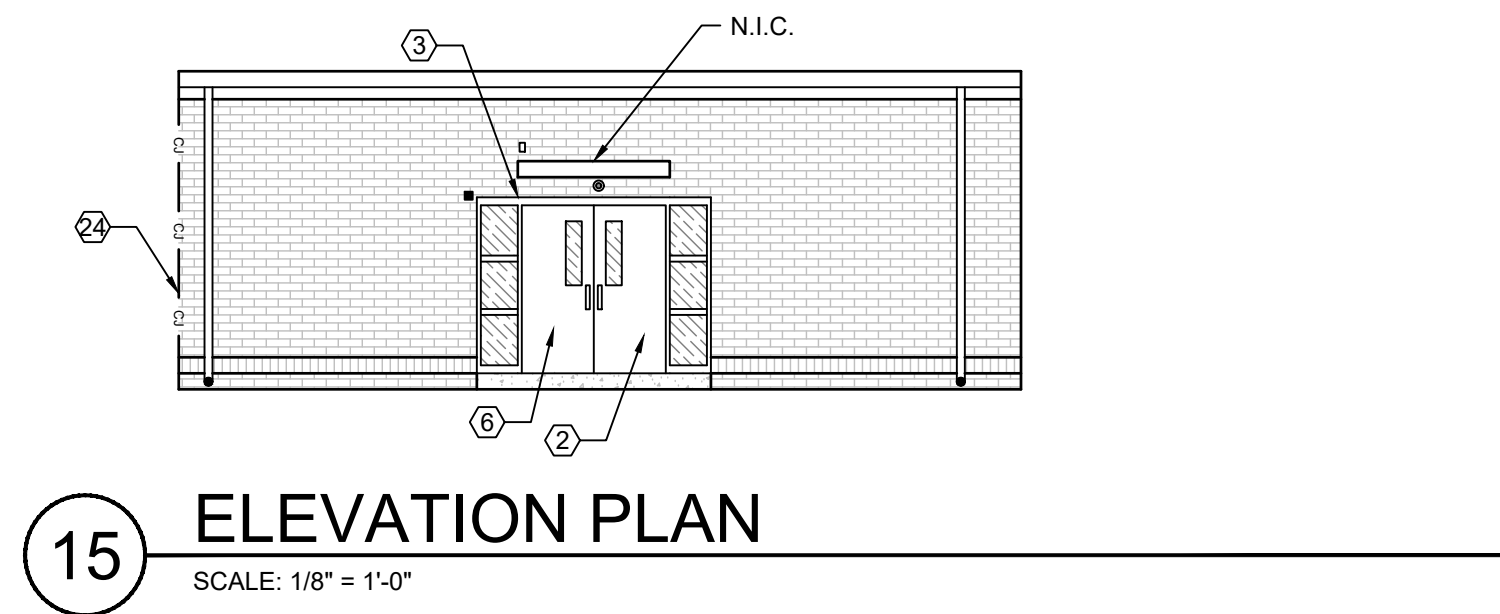
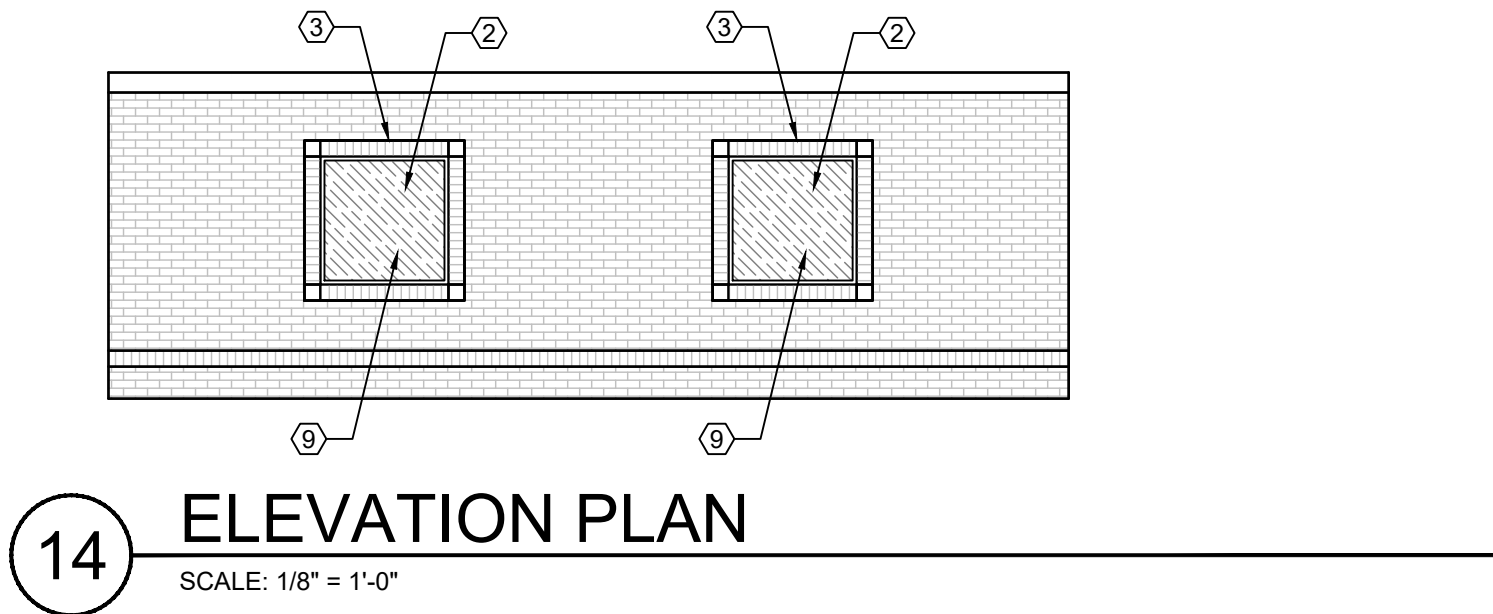
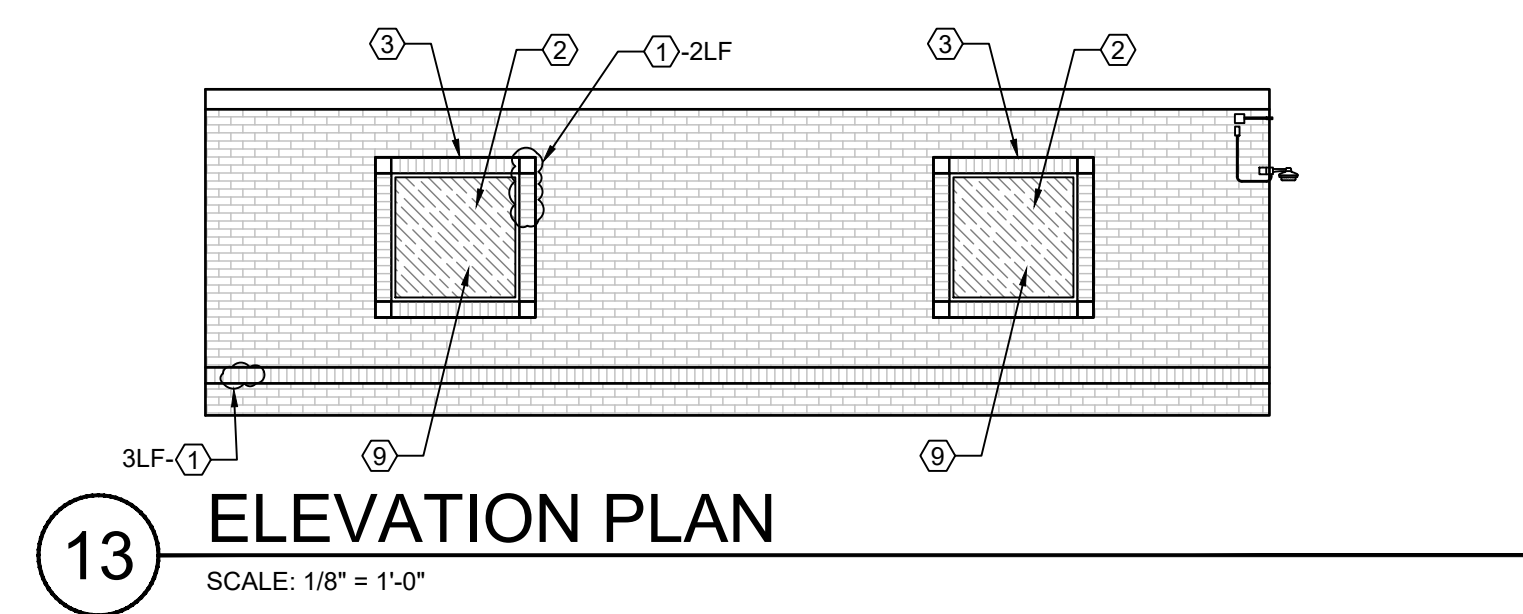
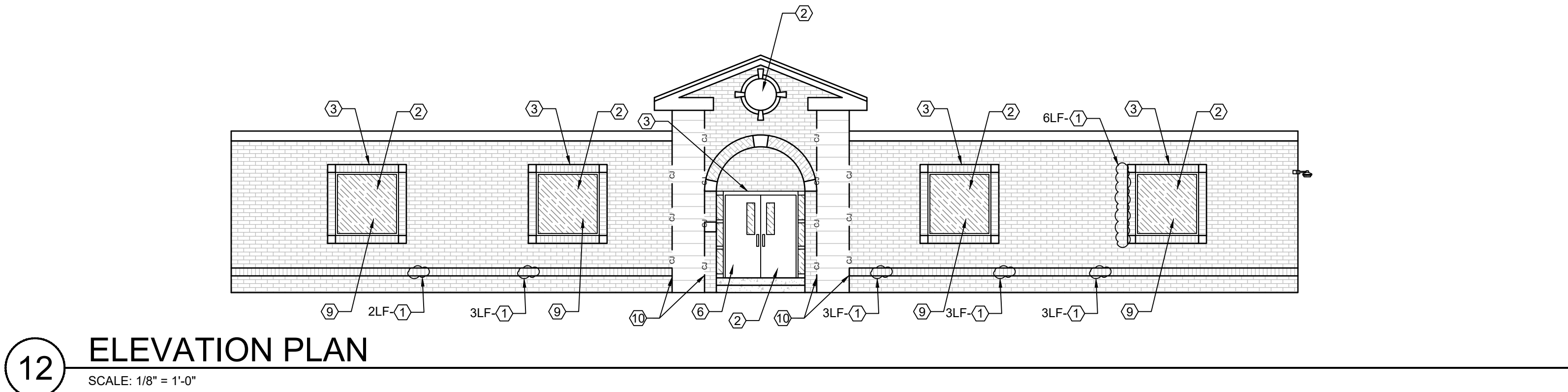
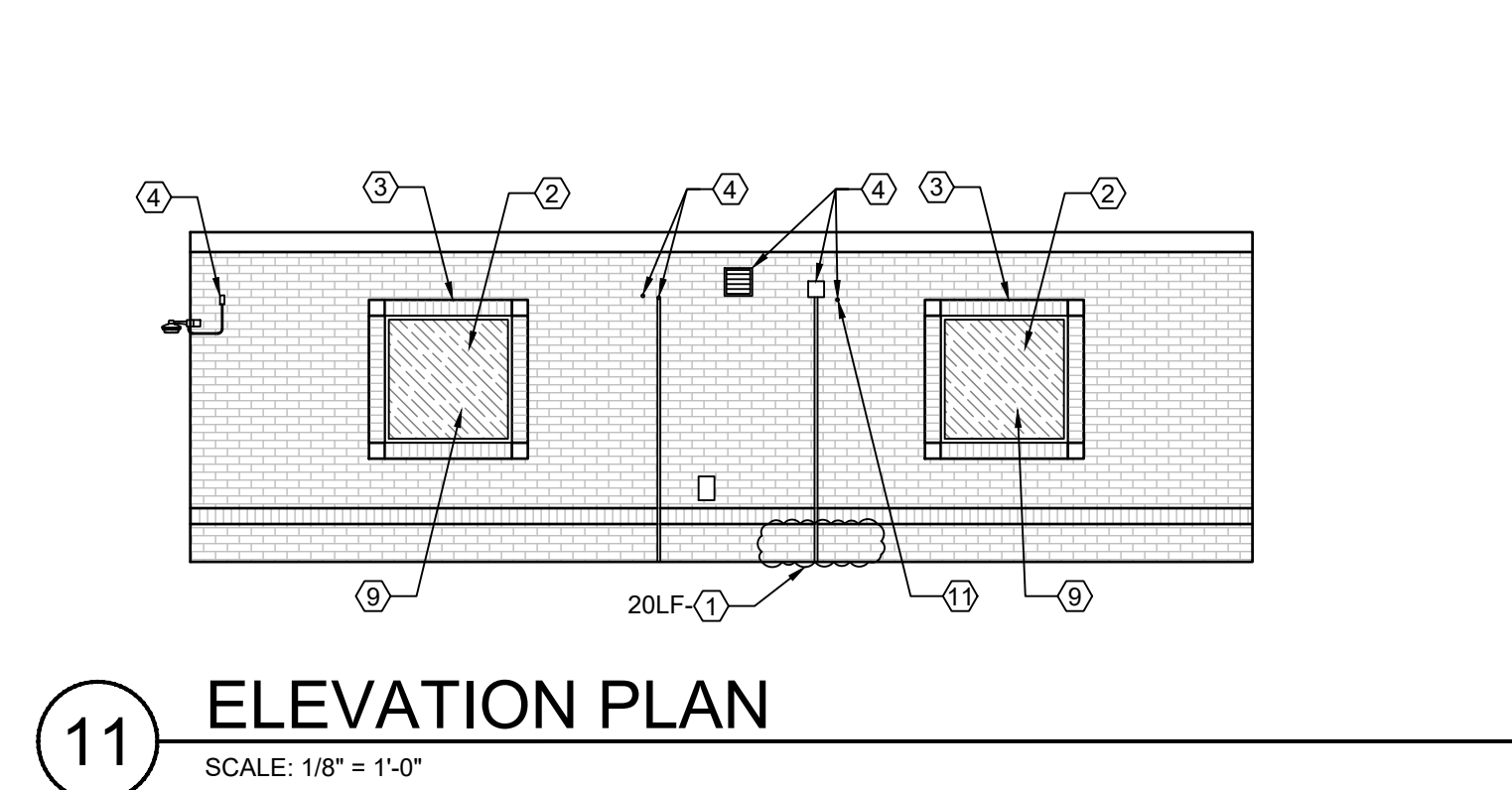
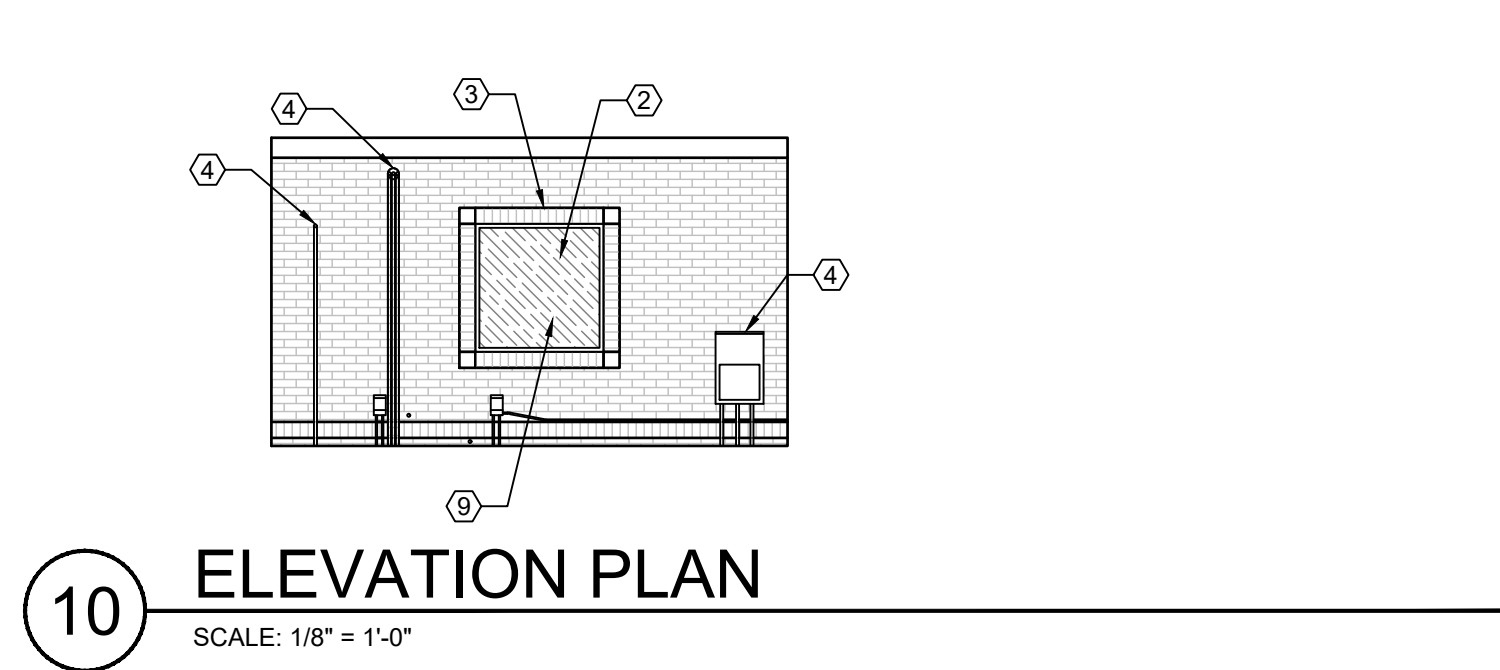
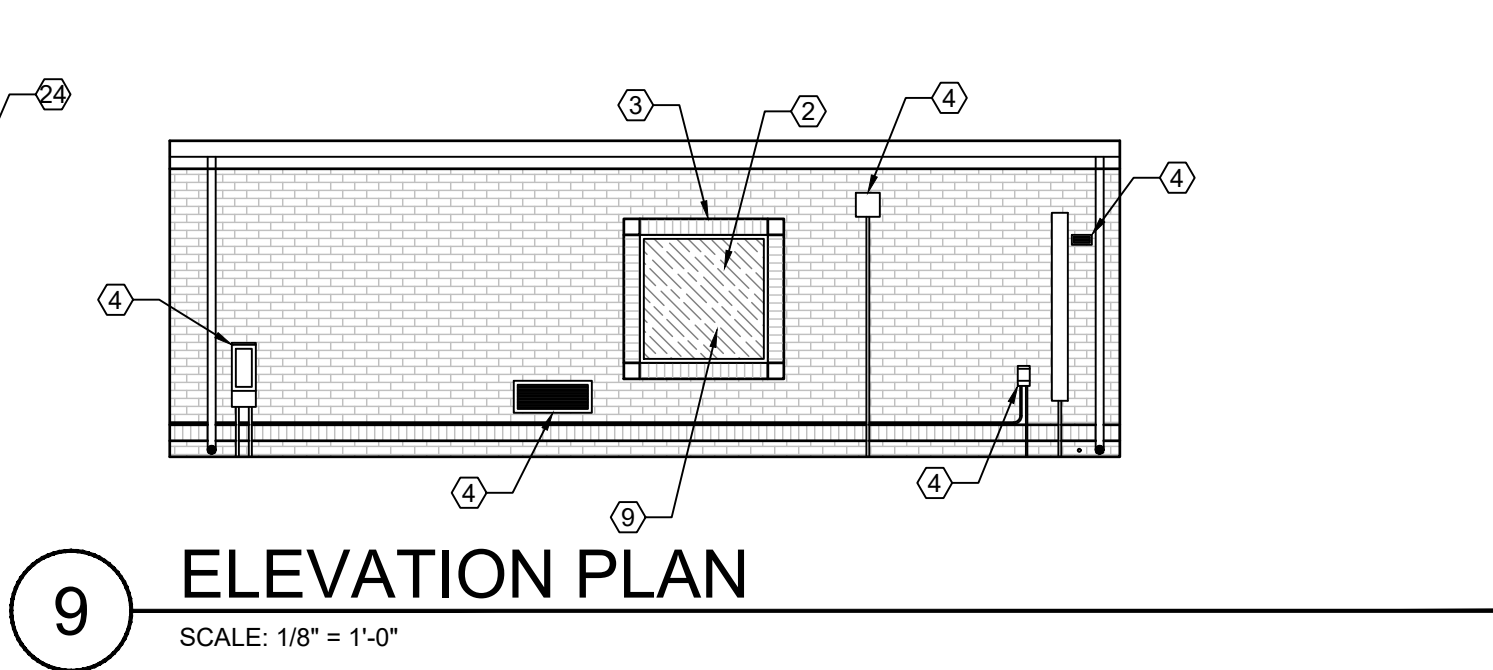
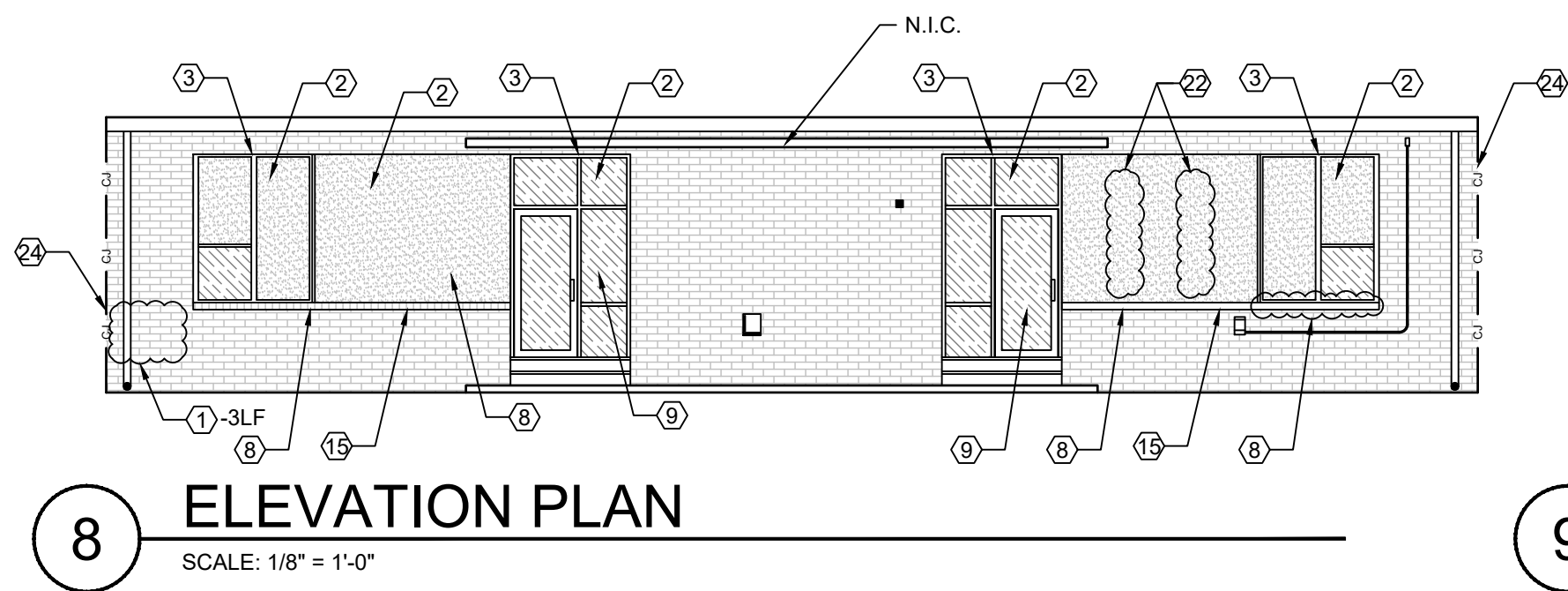
ELEVATIONS

DRAWING

XW201

KEY	
—	WALL EDGE
-o-	CONTROL JOINT
.	PIPE PENETRATION
•	SECURITY CAMERA
■	SPEAKER BOX
•	WATER SPIGOT
•	ELECTICAL OUTLET
■	VENT
•	WALL PLATE
•	FIRE ALARM BELL
•	WALL LIGHT
•	FLOOD LIGHT
■	DISCONNECT PANEL
②	SHEET NOTE NO.
②	DETAIL INDICATOR
②	SECTION INDICATOR





GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS. AFTER WORK HAS BEEN COMPLETED.
SHEET NOTES:
1. SEE SHEET NOTES ON SHEET XW102



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:
DORCHESTER SCHOOL DISTRICT 2
KNIGHTSVILLE ES PARTIAL ROOF REPLACEMENT AND EXTERIOR WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE, SCALE DRAWING ACCORDINGLY.

SHEET TITLE

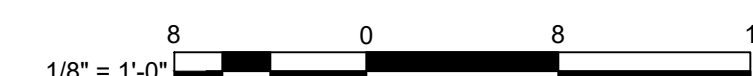
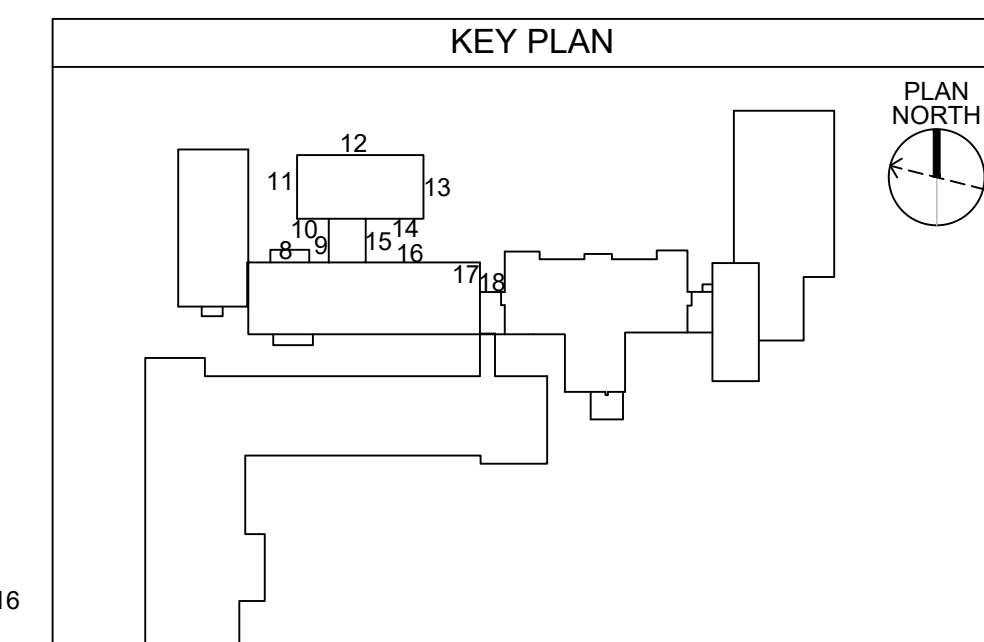
ELEVATIONS

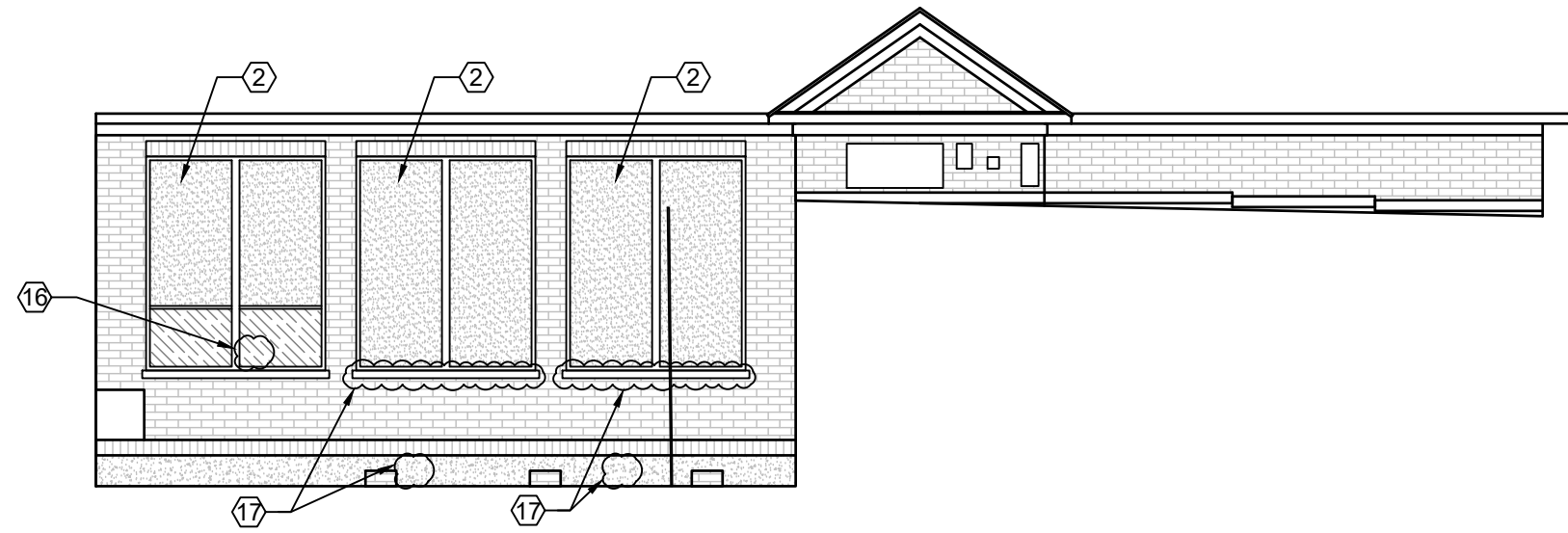
DRAWING

XW202

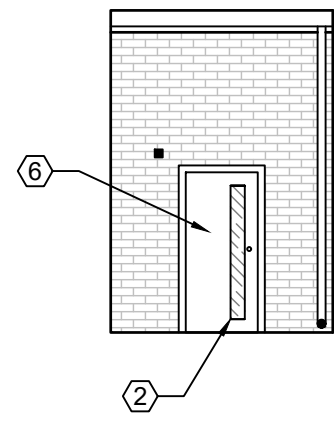
KEY

—	WALL EDGE
-o-	CONTROL JOINT
.	PIPE PENETRATION
•	SECURITY CAMERA
■	SPEAKER BOX
•	WATER SPIGOT
•	ELECTICAL OUTLET
■	VENT
•	WALL PLATE
•	FIRE ALARM BELL
•	WALL LIGHT
•	FLOOD LIGHT
■	DISCONNECT PANEL
(#)	SHEET NOTE NO.
(# SHT)	DETAIL INDICATOR
(# SHT)	SECTION INDICATOR

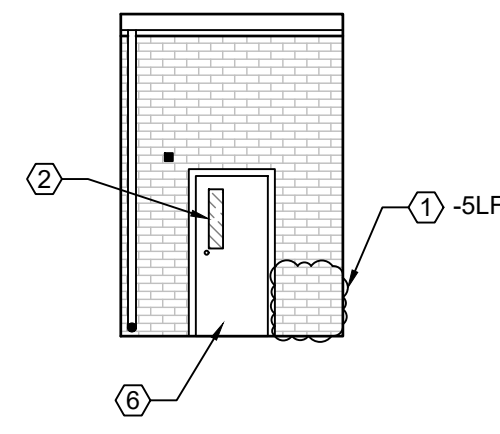




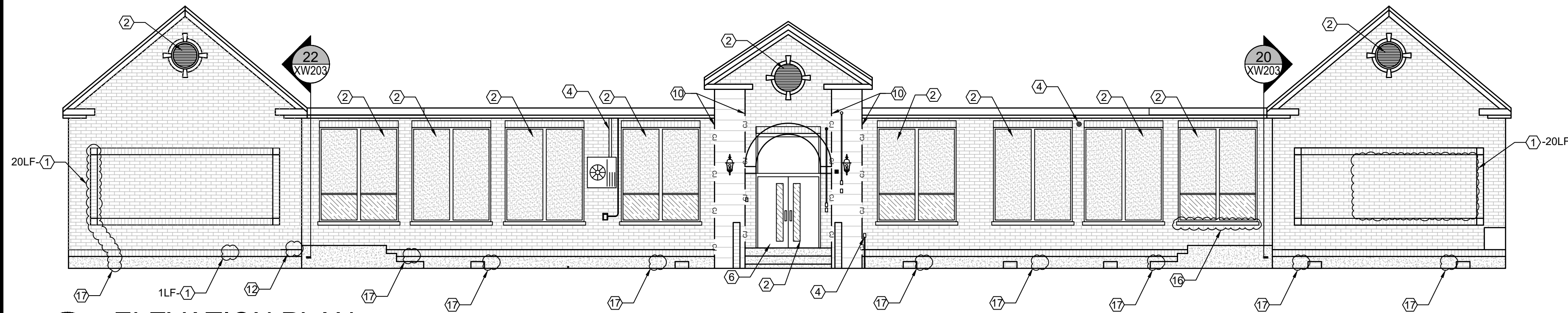
19 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



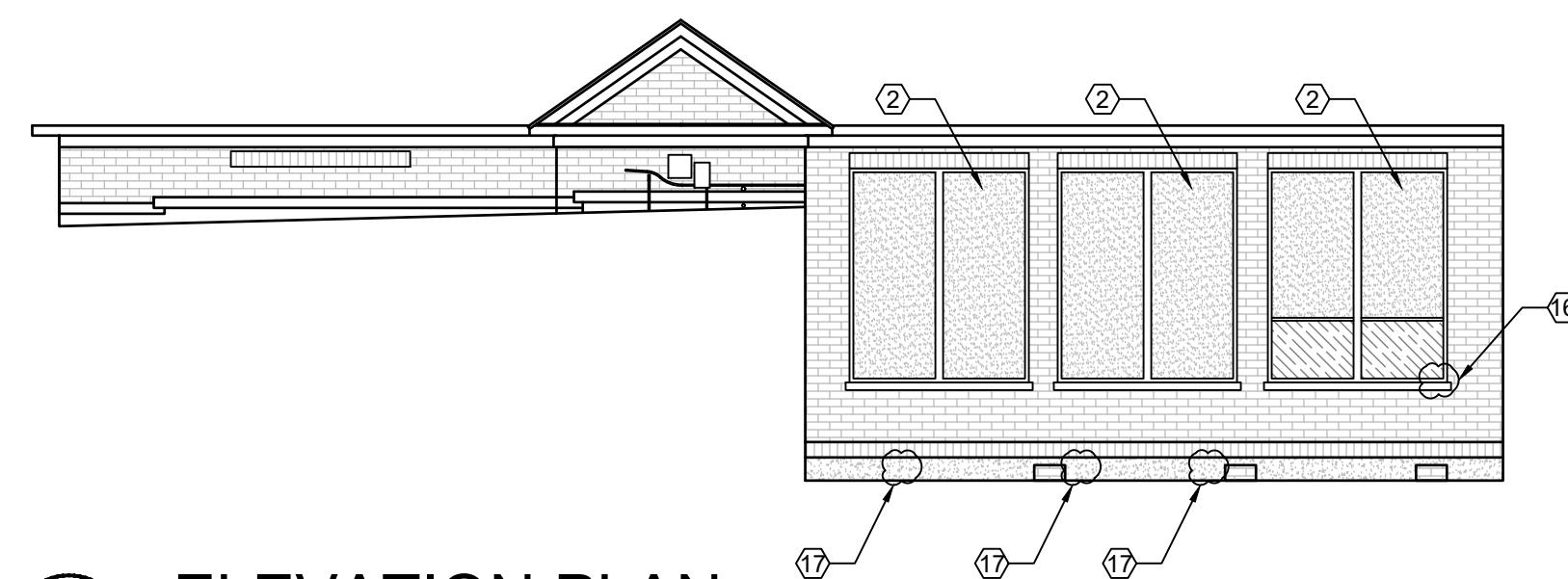
20 ELEVATION PLAN
Scale = 1/8"=10"



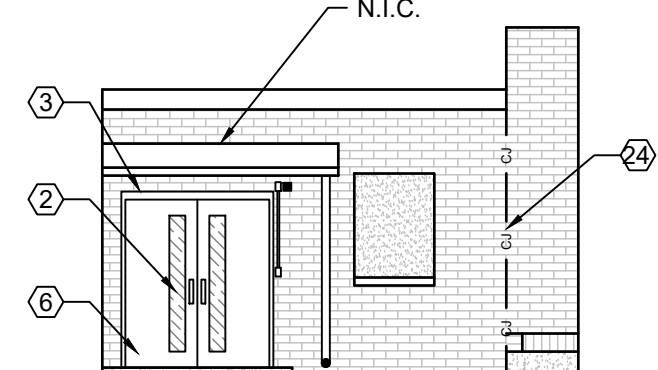
22 ELEVATION PLAN
Scale = 1/8"=10"



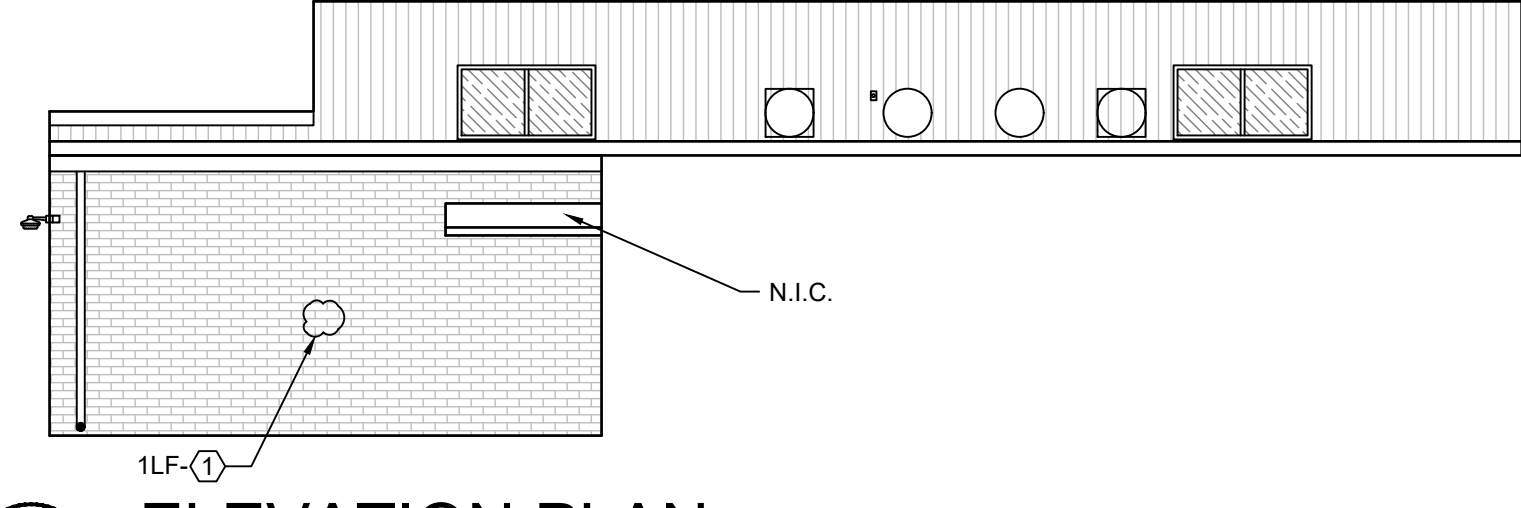
21 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



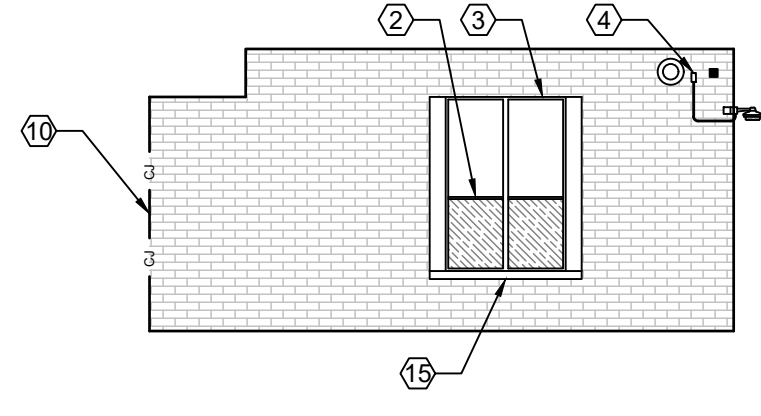
23 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



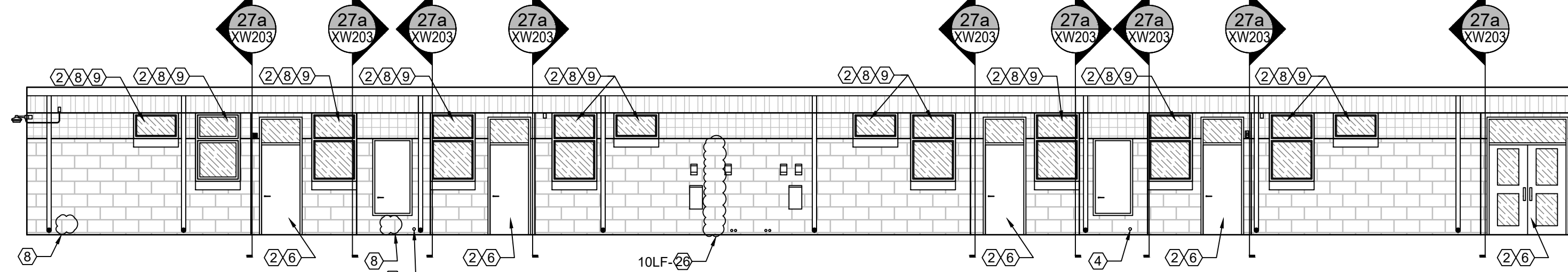
24 ELEVATION PLAN
Scale = 1/8"=10"



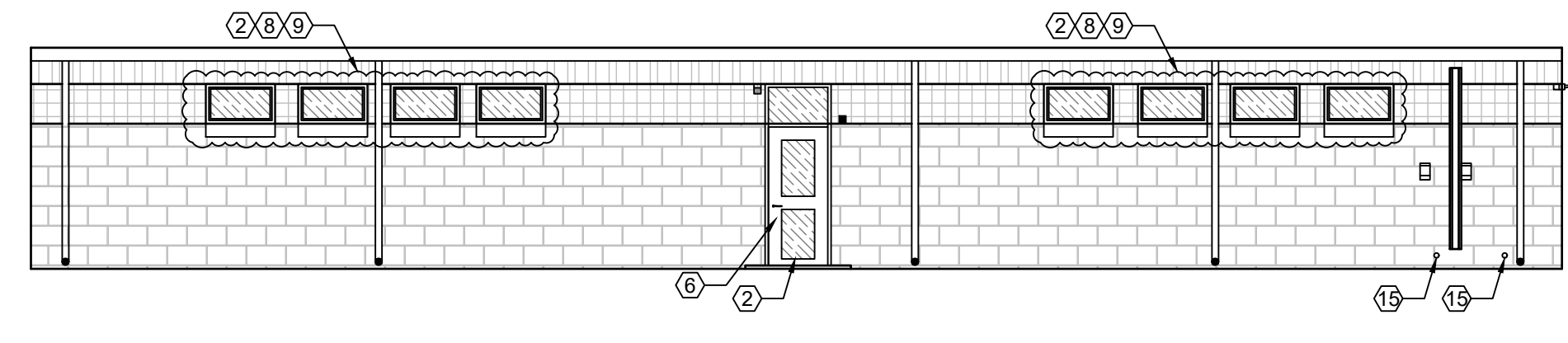
25 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



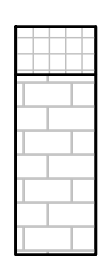
26 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



27 ELEVATION PLAN
SCALE: 1/8" = 1'-0"

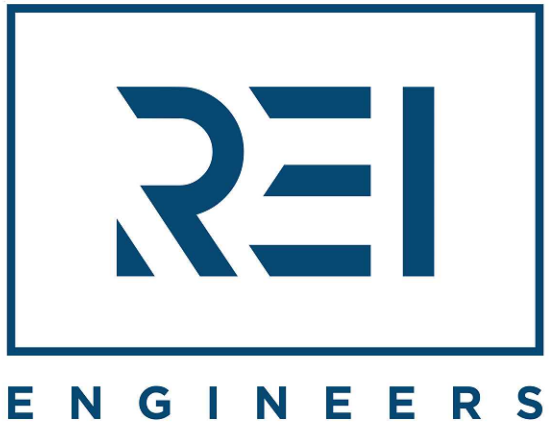


28 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



27a ELEVATION PLAN (TYP.)
Scale = 1/8"=10"

- GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THEREOF. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
 2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
 3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
 4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
 5. POWER WASH ALL EXTERIOR WALLS AFTER WORK HAS BEEN COMPLETED.
- SHEET NOTES:
1. SEE SHEET NOTES ON SHEET XW102



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:
**DORCHESTER SCHOOL
DISTRICT 2**

**KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION**

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:
024CHS-057

ISSUE:		
NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

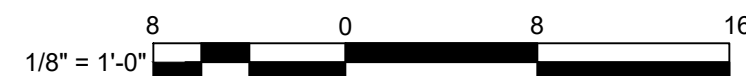
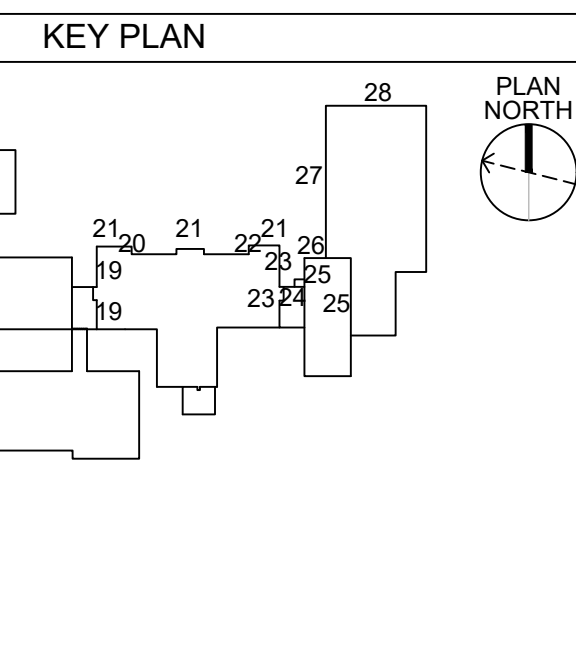
SHEET TITLE

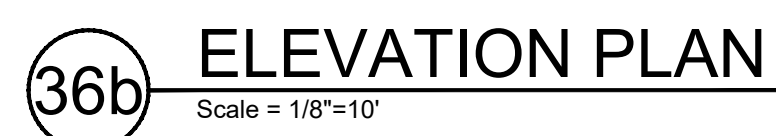
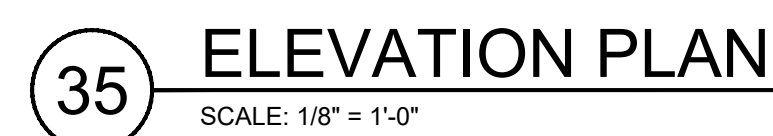
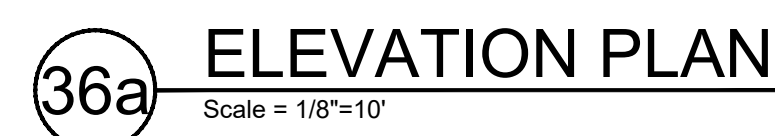
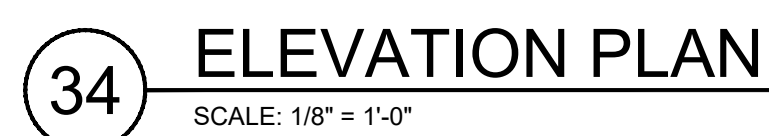
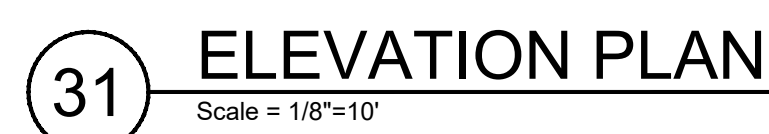
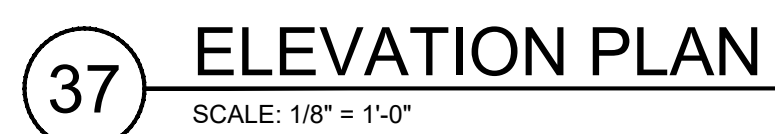
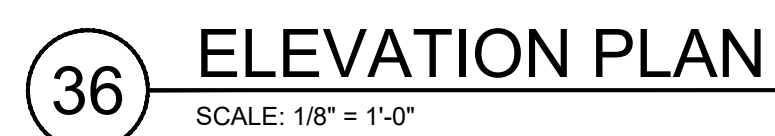
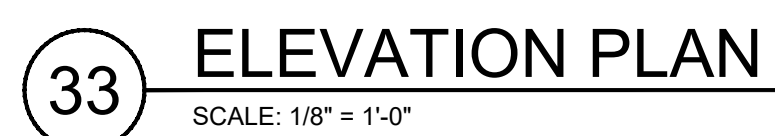
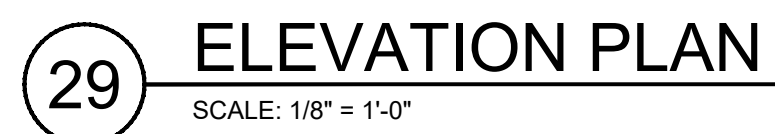
ELEVATIONS

DRAWING

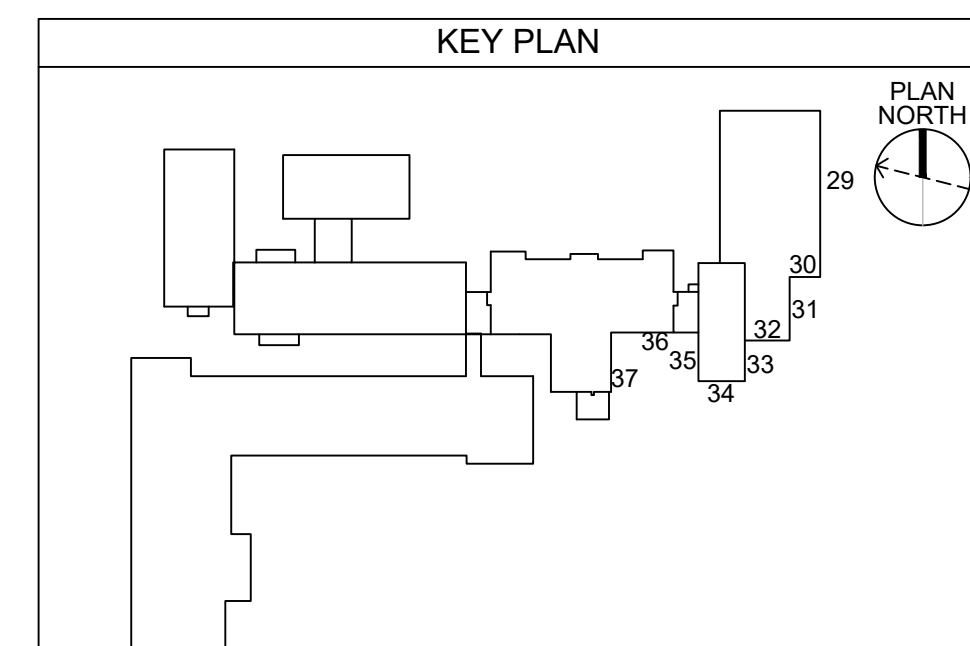
XW203

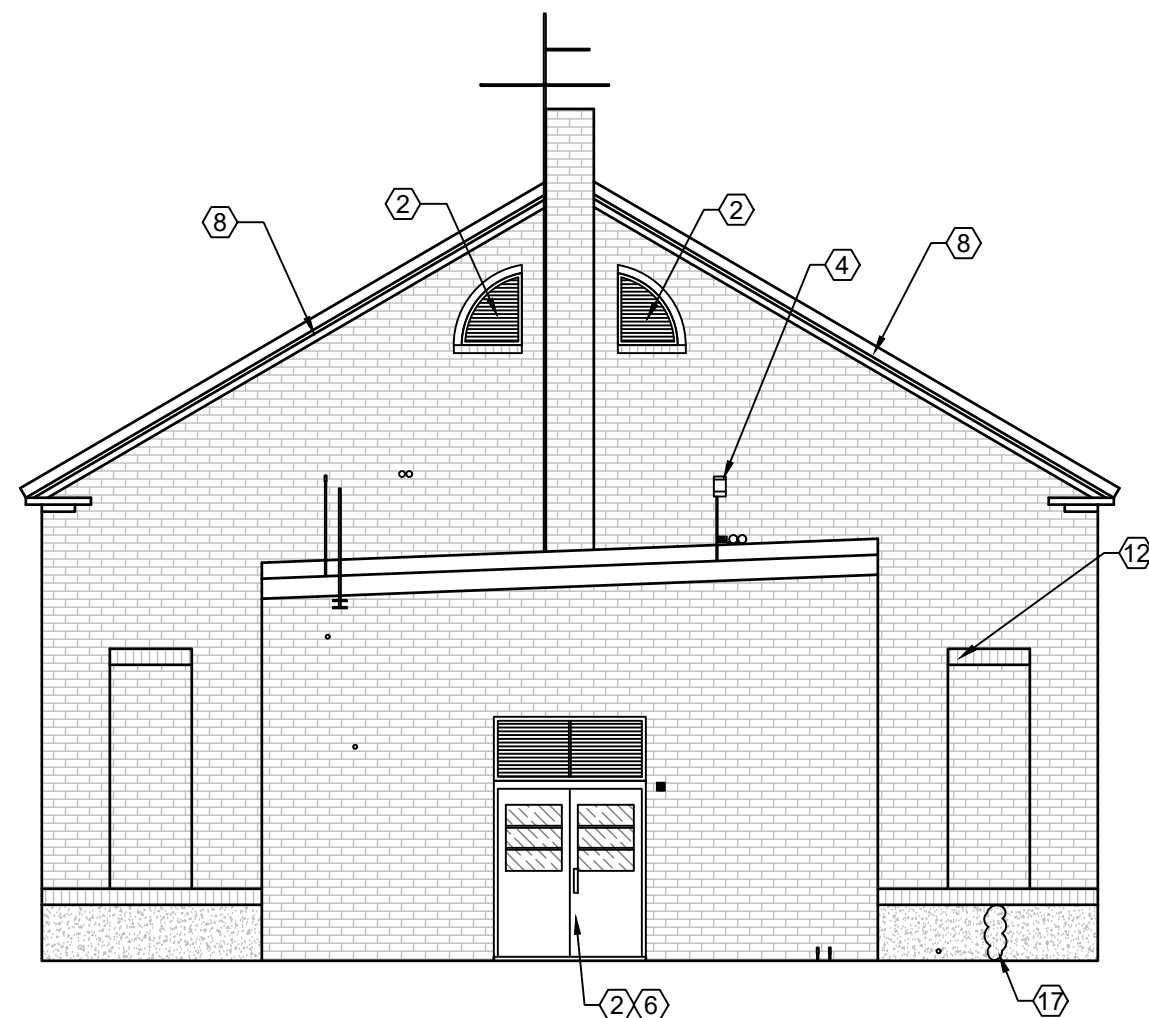
- KEY
- WALL EDGE
 - o- CONTROL JOINT
 - PIPE PENETRATION
 - SECURITY CAMERA
 - SPEAKER BOX
 - WATER SPIGOT
 - ELECTRICAL OUTLET
 - VENT
 - WALL PLATE
 - FIRE ALARM BELL
 - WALL LIGHT
 - FLOOD LIGHT
 - DISCONNECT PANEL
 - SHEET NOTE NO.
 - DETAIL INDICATOR
 - SECTION INDICATOR



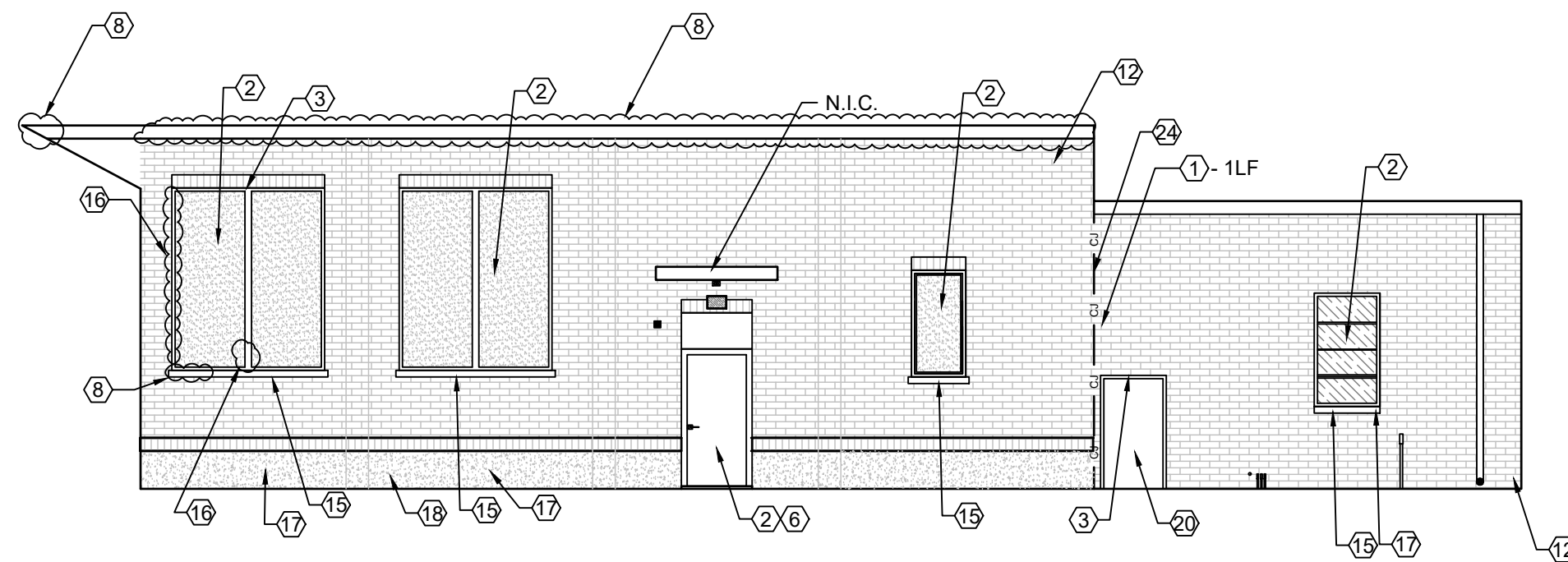


XW204

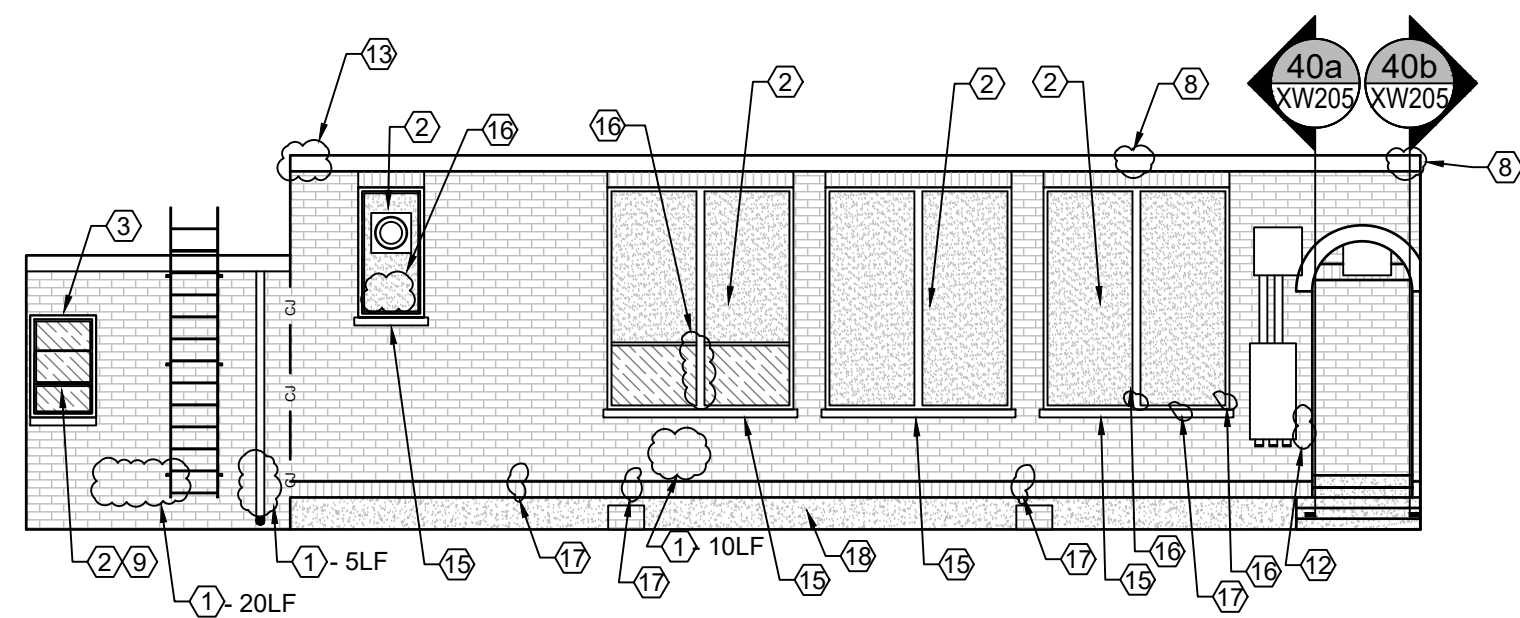




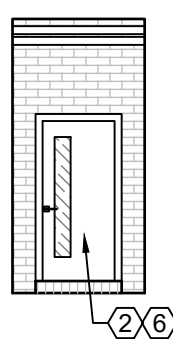
38 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



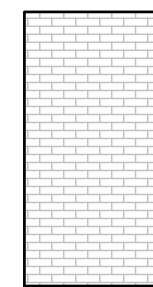
39 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



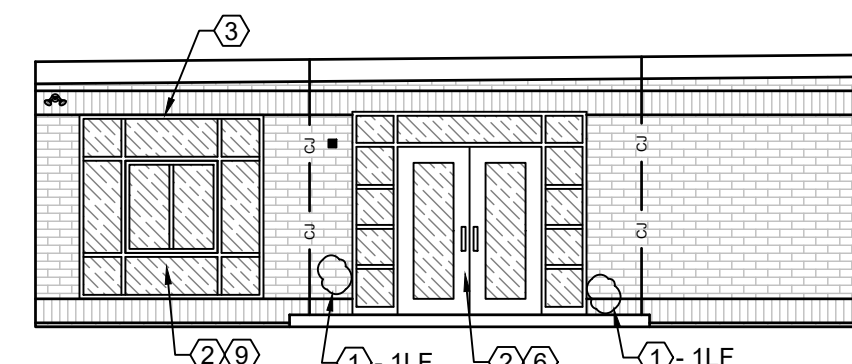
40 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



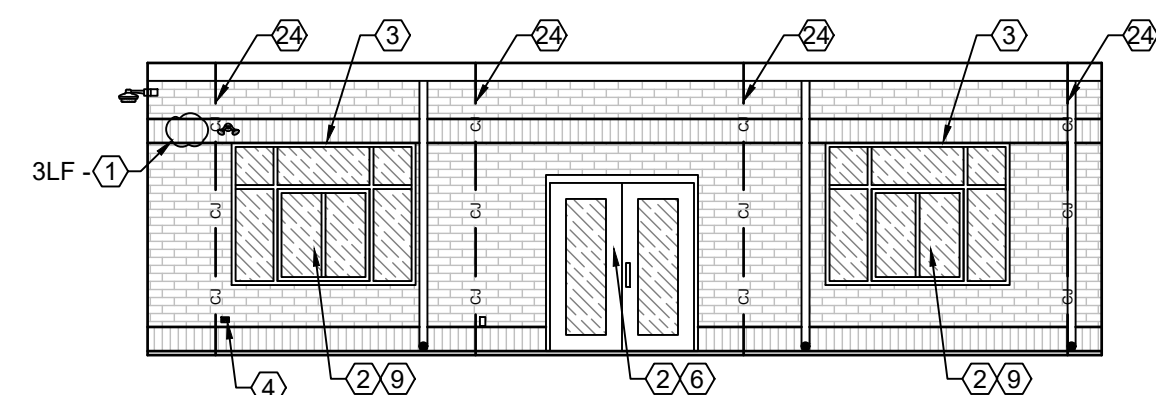
40a ELEVATION PLAN
Scale = 1/8"=1'0"



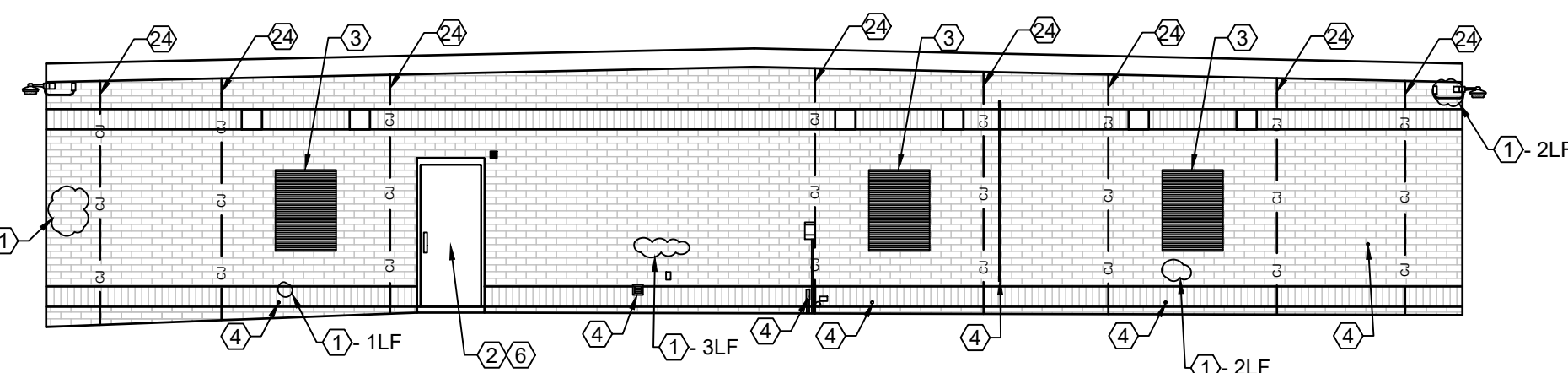
40b ELEVATION PLAN
Scale = 1/8"=1'0"



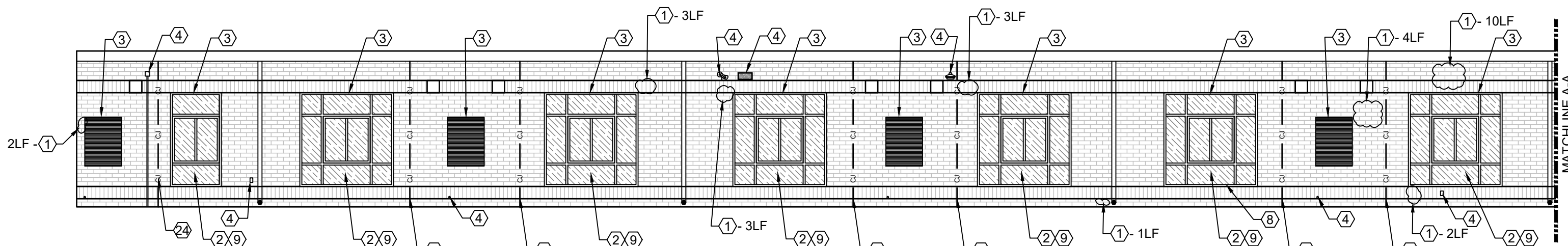
41 ELEVATION PLAN
Scale = 1/8"=1'0"



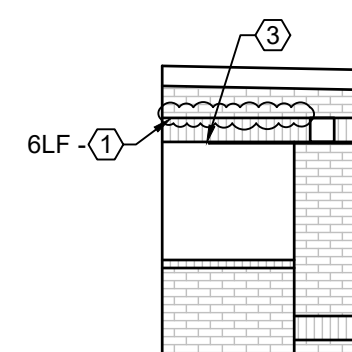
42 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



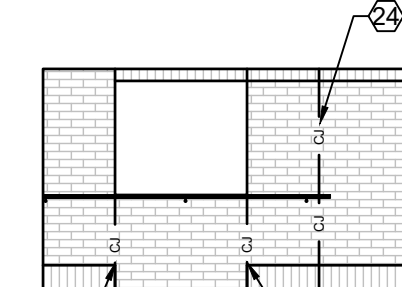
43 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



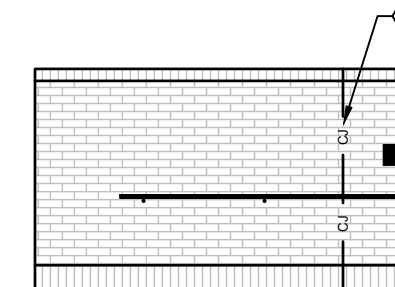
44 ELEVATION PLAN
SCALE: 1/8" = 1'-0"



44A



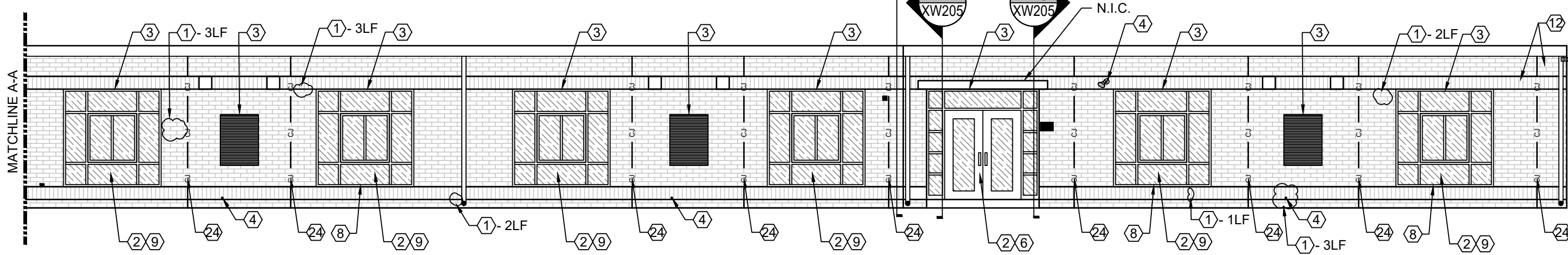
44B



44C

44 ELEVATION PLANS-44A, 44B, 44C
SCALE: 1/8" = 1'-0"

KEY		
—	WALL EDGE	
-o-	CONTROL JOINT	
•	PIPE PENETRATION	
•	SECURITY CAMERA	
■	SPEAKER BOX	
•	WATER SPOGOT	
•	ELECTICAL OUTLET	
■	VENT	
•	WALL PLATE	
•	FIRE ALARM BELL	
•	WALL LIGHT	
•	FLOOD LIGHT	
■	DISCONNECT PANEL	
②	SHEET NOTE NO.	
②	DETAIL INDICATOR	
②	SECTION INDICATOR	



44 ELEVATION PLAN-CONTINUED FROM ABOVE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.
5. POWER WASH ALL EXTERIOR WALLS AFTER WORK HAS BEEN COMPLETED.
SHEET NOTES:
1. SEE SHEET NOTES ON SHEET XW102



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

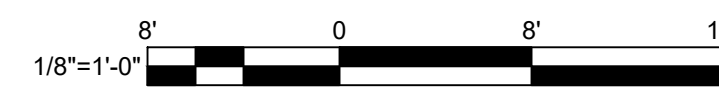
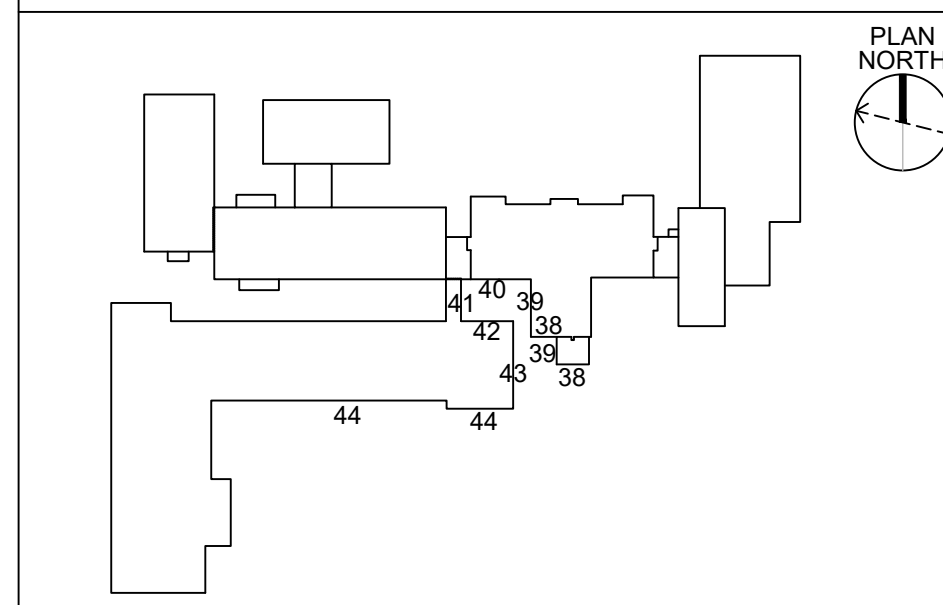
SHEET TITLE

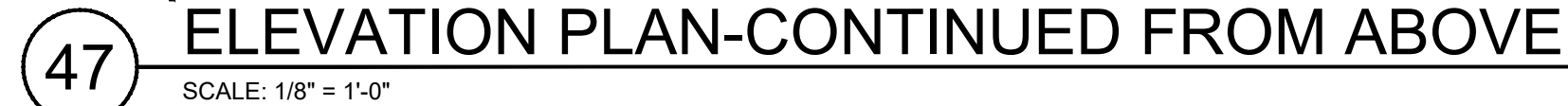
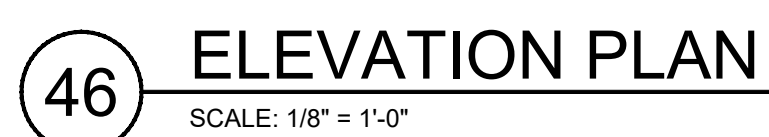
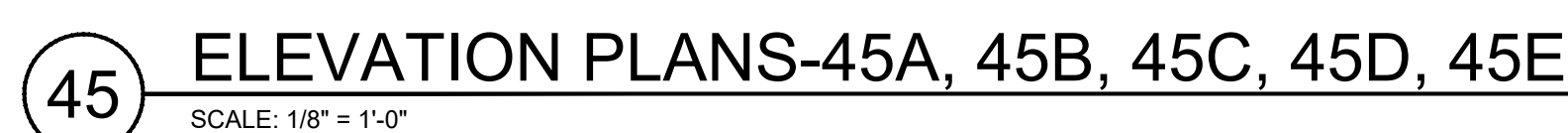
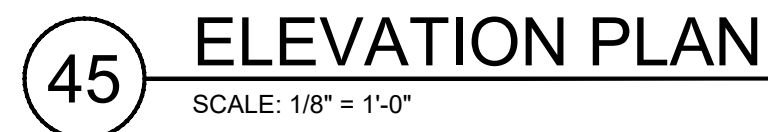
ELEVATIONS

DRAWING

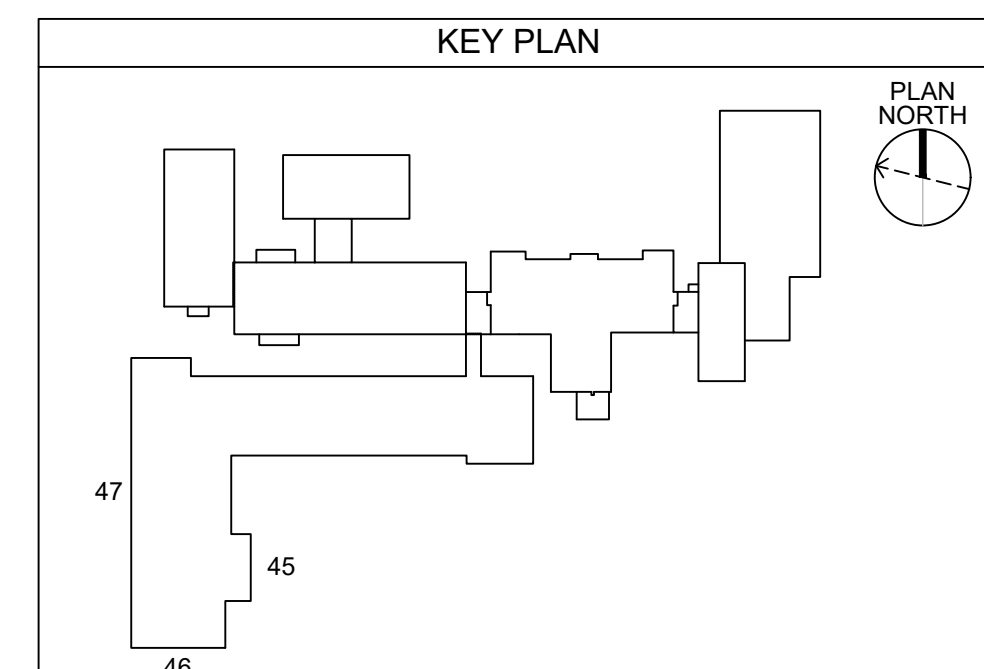
XW205

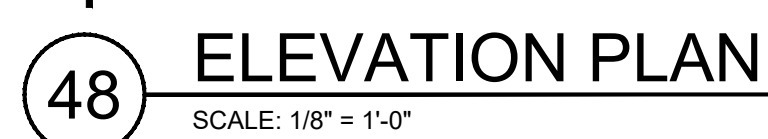
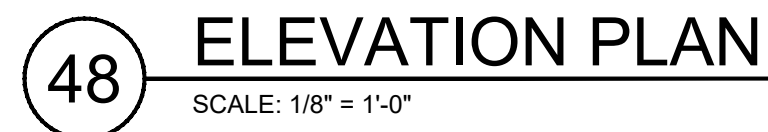
KEY PLAN



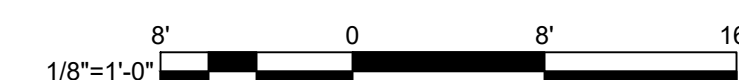
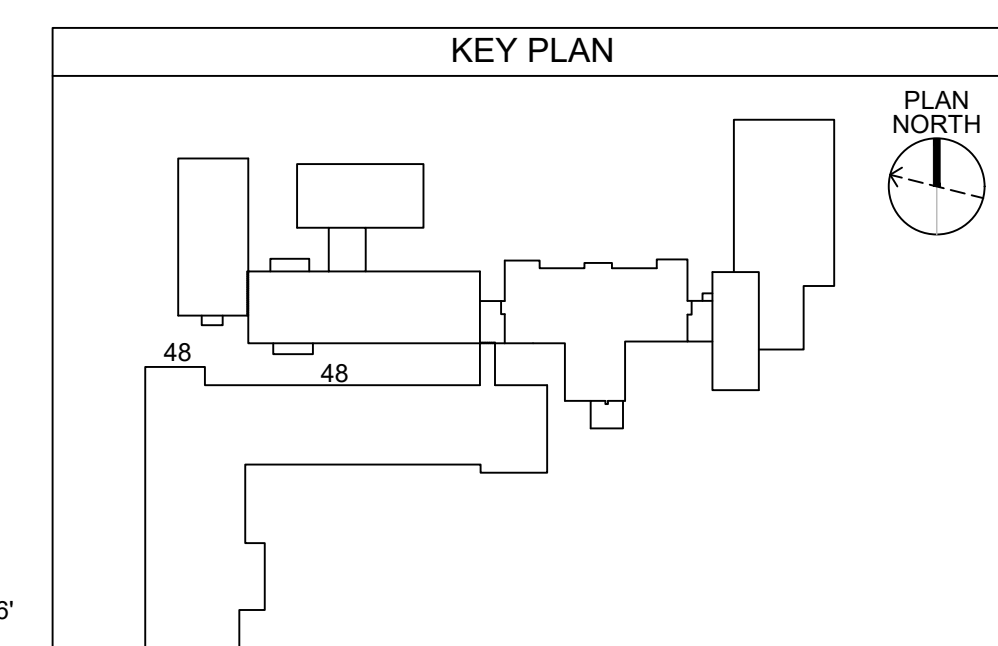


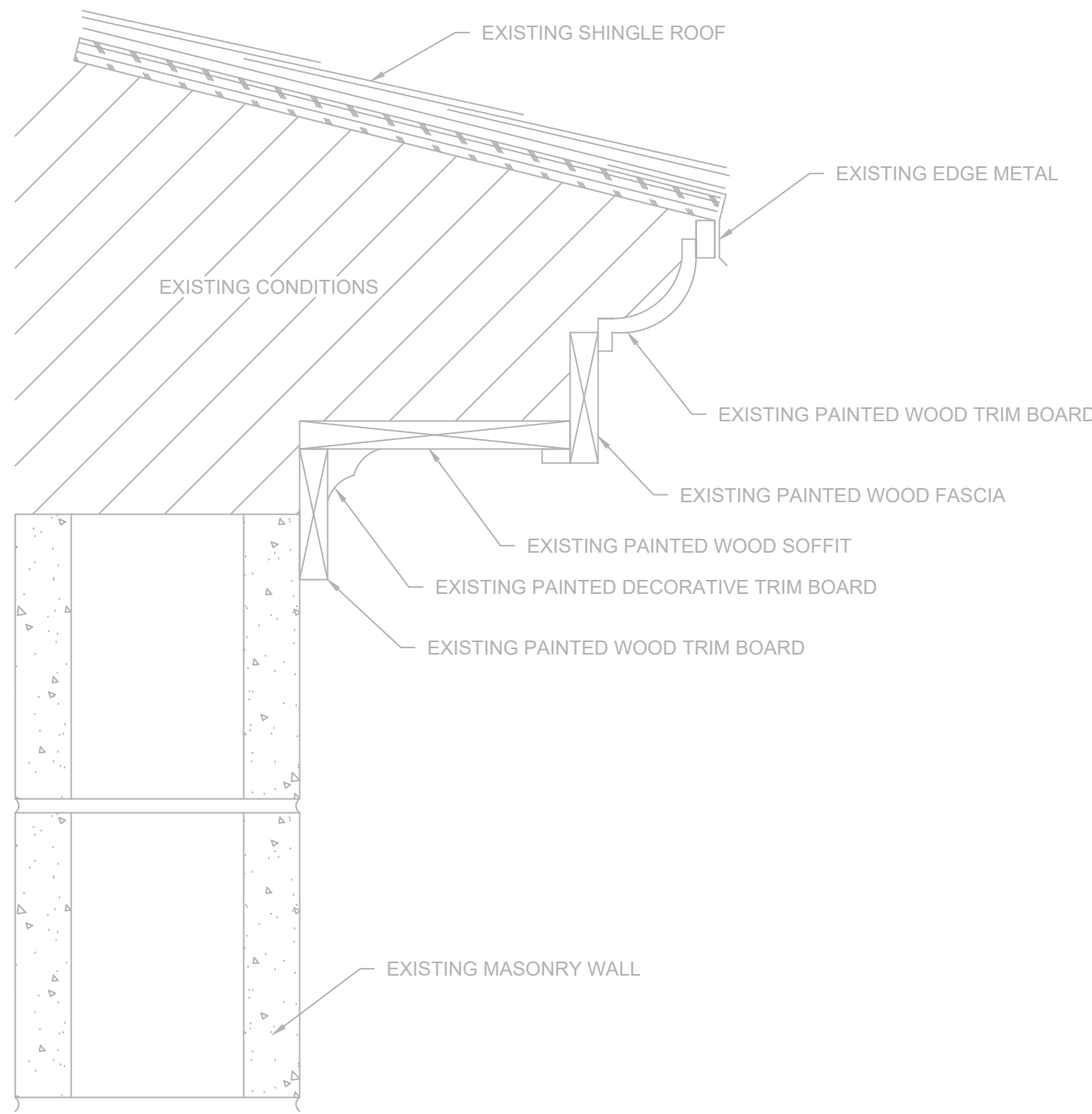
XW206





- | KEY | |
|----------|-------------------|
| — | WALL EDGE |
| —○— | CONTROL JOINT |
| — | PIPE PENETRATION |
| ▲ | SECURITY CAMERA |
| ■ | SPEAKER BOX |
| .. | WATER SPIGOT |
| ■ | ELECTICAL OUTLET |
| □ ■ | VENT |
| ■ | WALL PLATE |
| ○ | FIRE ALARM BELL |
| ⬆ ■ | WALL LIGHT |
| ■ ■ | FLOOD LIGHT |
| ■ ■ | DISCONNECT PANEL |
| ② | SHEET NOTE NO. |
| ②
SHT | DETAIL INDICATOR |
| ②
SHT | SECTION INDICATOR |



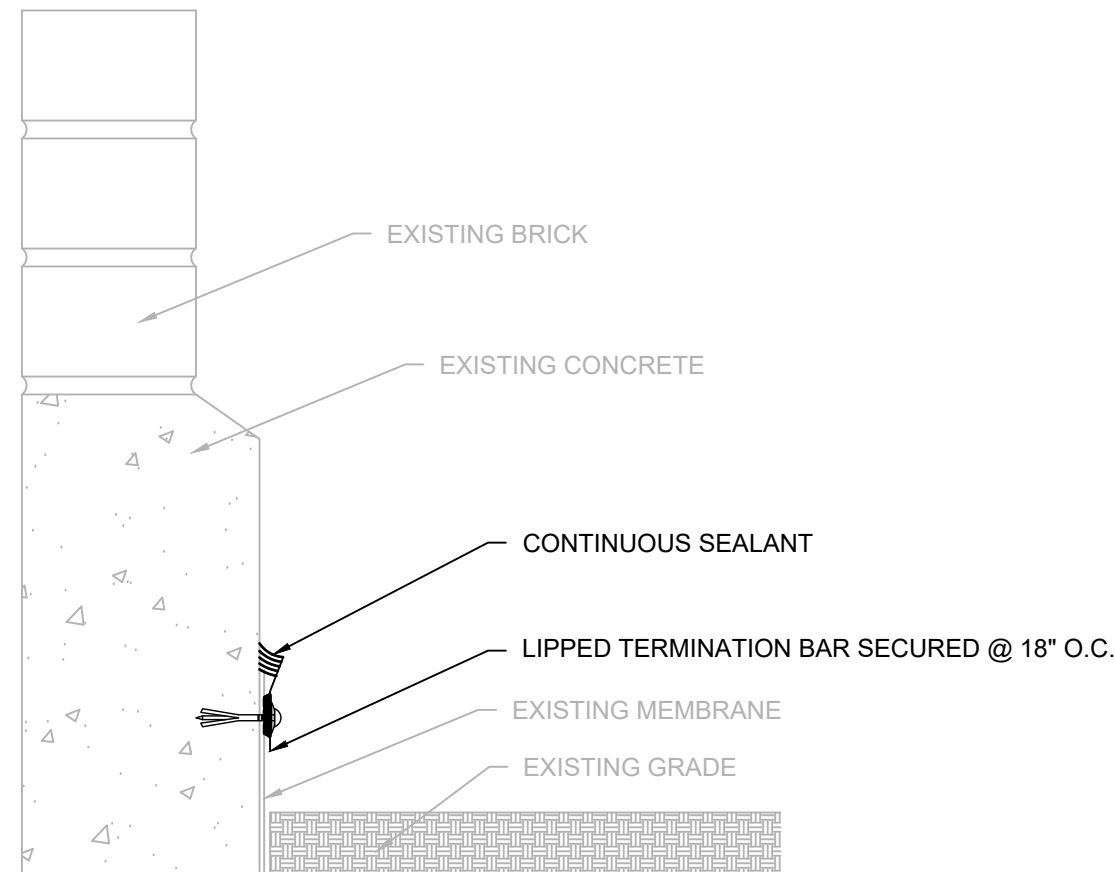


- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONSTRUCTION AND COMPONENTS.
 2. REMOVE DAMAGED WOOD BOARDS AND PROVIDE NEW WOOD BOARDS TO MATCH EXISTING AT LOCATIONS INDICATED ON DRAWINGS. PAINT NEW WOOD BOARDS TO MATCH ADJACENT LOCATION.

1

EXISTING WOOD SOFFIT

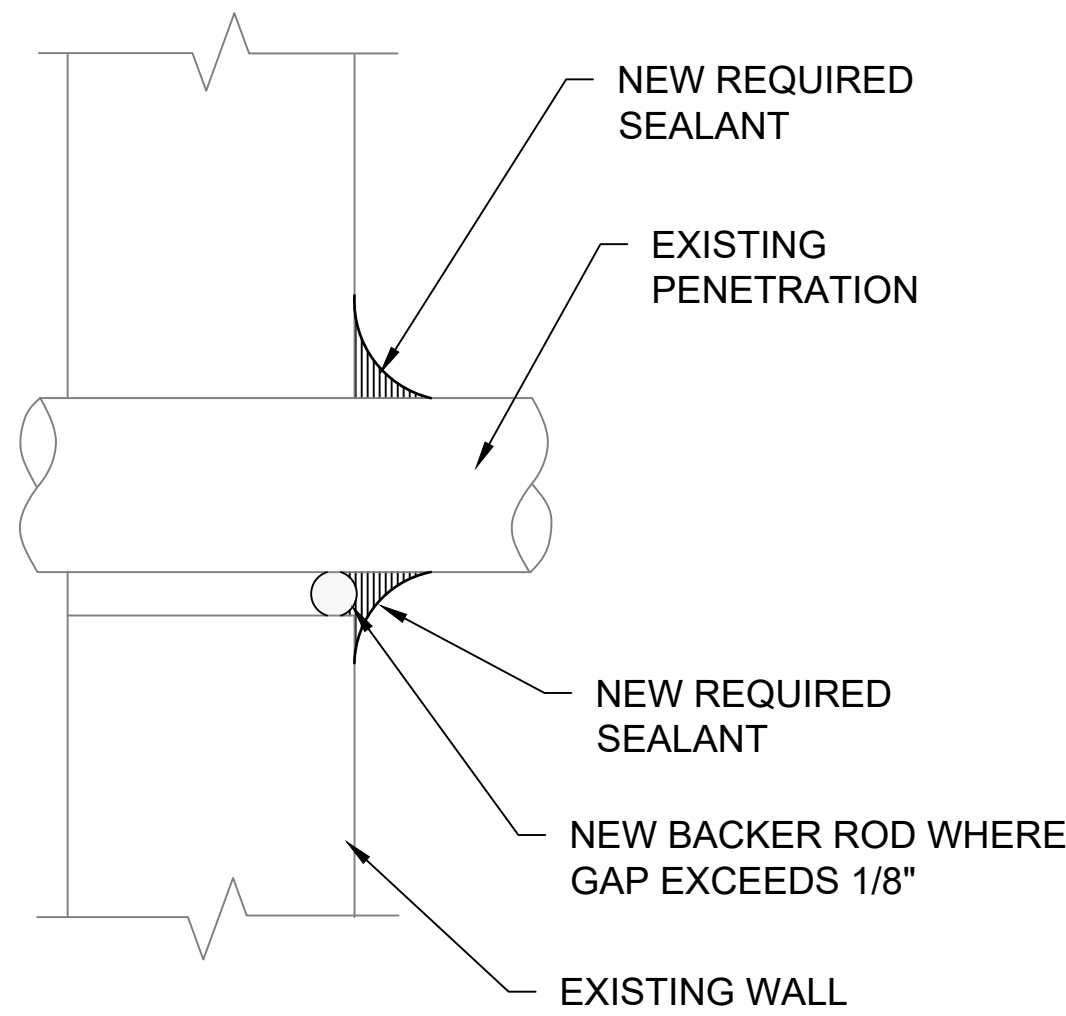
SCALE: 3" = 1'-0"



2

MEMBRANE TERMINATION

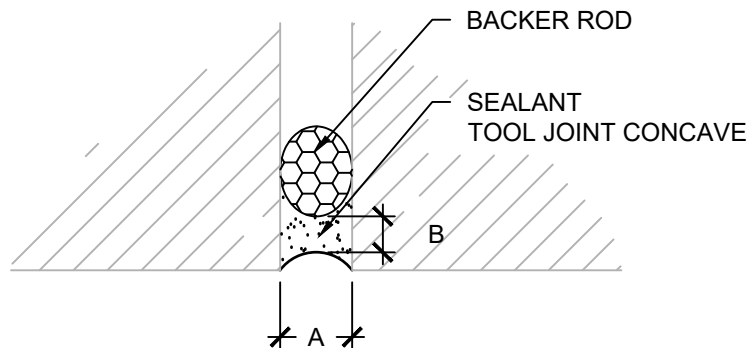
SCALE: 3" = 1'-0"



3

WALL PENETRATION SEALANT

SCALE: 3" = 1'-0"

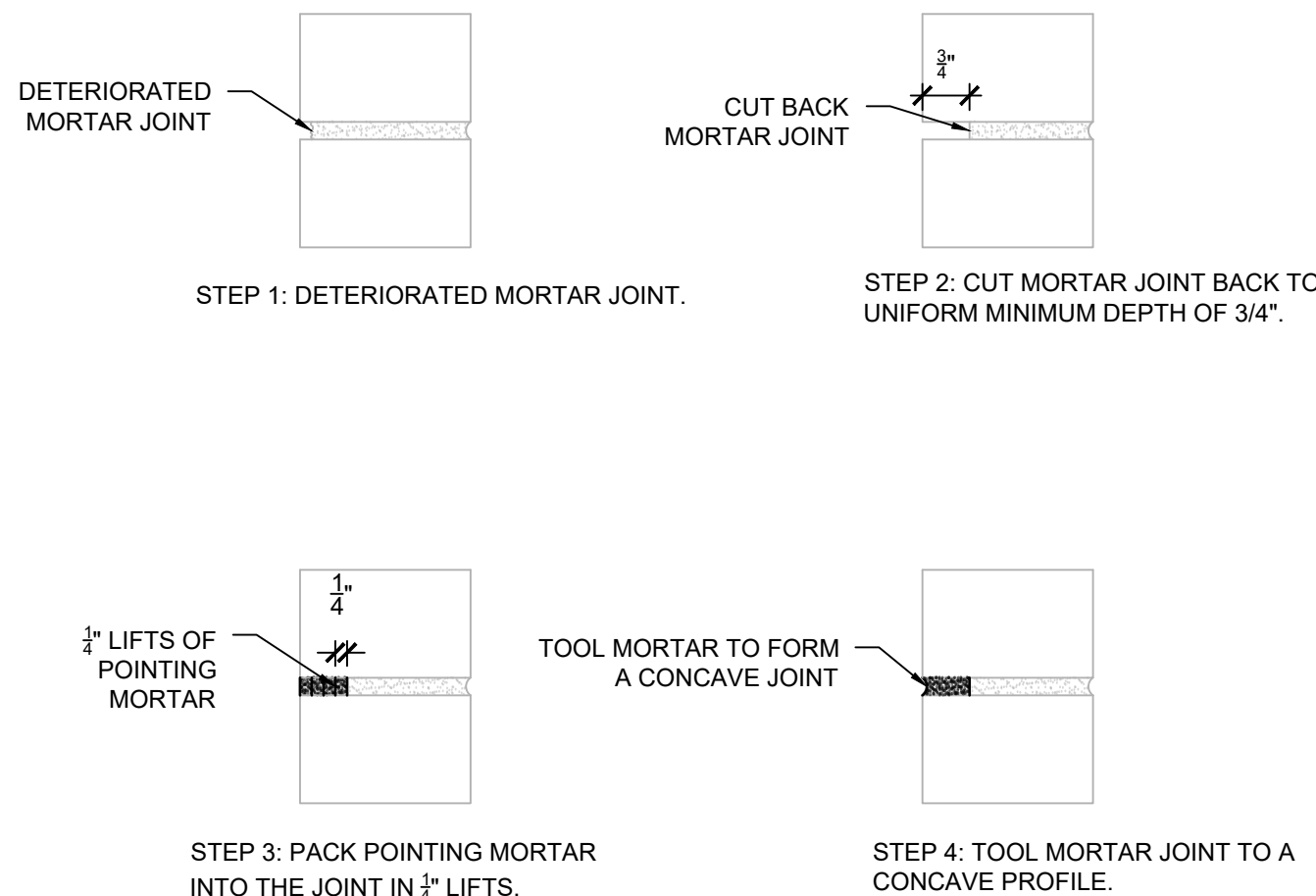


- NOTES:
1. DIMENSION A SHALL BE 1/4" MINIMUM.
 2. DIMENSION B SHALL BE 1/4" MIN. AND 1/2" MAX.
 3. RATIO OF A:B SHALL BE 2:1 MINIMUM.
 4. BACKER ROD DIAMETER SHALL BE 25% LARGER THAN JOINT WIDTH.

4

SEALANT (BUTT JOINT)

SCALE: N.T.S.

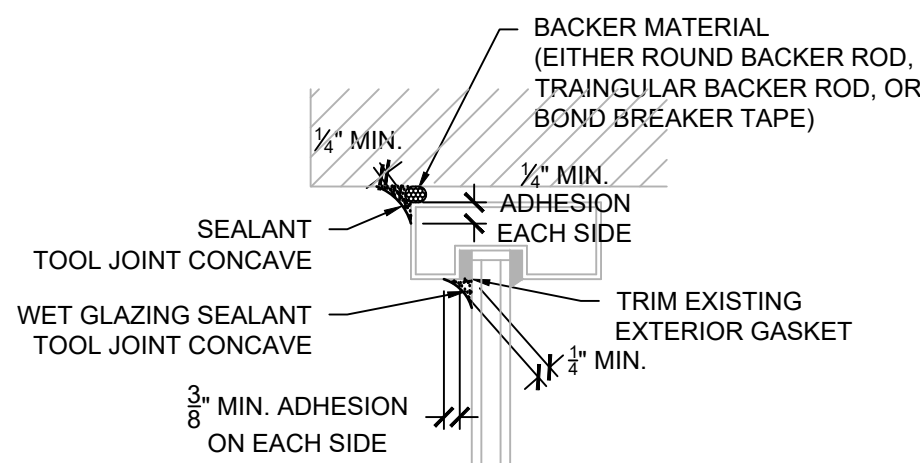


- NOTES:
1. PROVIDE REPOINTING WHERE INDICATED IN CONTRACT DRAWINGS AND BASED ON VISUAL INSPECTION IN ACCORDANCE WITH UNIT PRICES AND QUANTITY ALLOWANCES.

5

MASONRY REPOINTING

SCALE: N.T.S.



6

PERIMETER SEALANT JOINT

SCALE: N.T.S.

- GENERAL NOTES:
1. THESE DOCUMENTS ARE THE PROPERTY OF REI ENGINEERS, INC. (REI) AND REI RETAINS ALL RIGHTS THEREIN, INCLUDING COPYRIGHTS. IT MAY ONLY BE USED IN A MANNER CONSISTENT WITH REI'S RIGHTS WHILE REI IS PROVIDING SERVICE FOR THE SPECIFIC PROJECT IDENTIFIED OR REFERRED TO HEREIN OR EXTENSIONS THERETO. IT MAY NOT BE USED FOR ANY OTHER PURPOSE EXCEPT WITH THE EXPRESS WRITTEN AGREEMENT OF, AND COMPENSATION TO, REI ENGINEERS, INC.
 2. DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
- SHEET NOTES:
1. FOR DETAILS, LIGHT LINES REPRESENT EXISTING CONSTRUCTION TO REMAIN AND DARK LINES REPRESENT NEW COMPONENTS TO BE PROVIDED.
 2. ANY WHOLE OR PARTIAL INSULATION BOARD OR PORTION OF ANY BOARD WHICH FALLS IN THE PERIMETERS & CORNERS OUTLINED SHALL BE SUBJECT TO THE FASTENING REQUIREMENTS FOR THE HIGHEST WIND ZONE ENCOUNTERED, ACROSS THE ENTIRE BOARD.



Engineering solutions for tomorrow®

4995 Lacross Rd. | Suite 1325
N Charleston, SC 29406

SOUTH CAROLINA
CERTIFICATE OF
AUTHORIZATION #1906

www.reiengineers.com

SEALS:



PROJECT NAME:

DORCHESTER SCHOOL
DISTRICT 2

KNIGHTSVILLE ES PARTIAL ROOF
REPLACEMENT AND EXTERIOR
WALL RENOVATION

847 ORANGEBURG ROAD
SUMMERVILLE, SC

PROJECT NO:

024CHS-057

ISSUE:

NO.	DATE	DESCRIPTION
CD	03-21-25	CONTRACT DOCUMENTS

THIS LINE IS 1 INCH ON
THE ORIGINAL DRAWING

IF IT IS NOT 1 INCH ON THIS PAGE,
SCALE DRAWING ACCORDINGLY.

SHEET TITLE

DETAILS

DRAWING

XW501