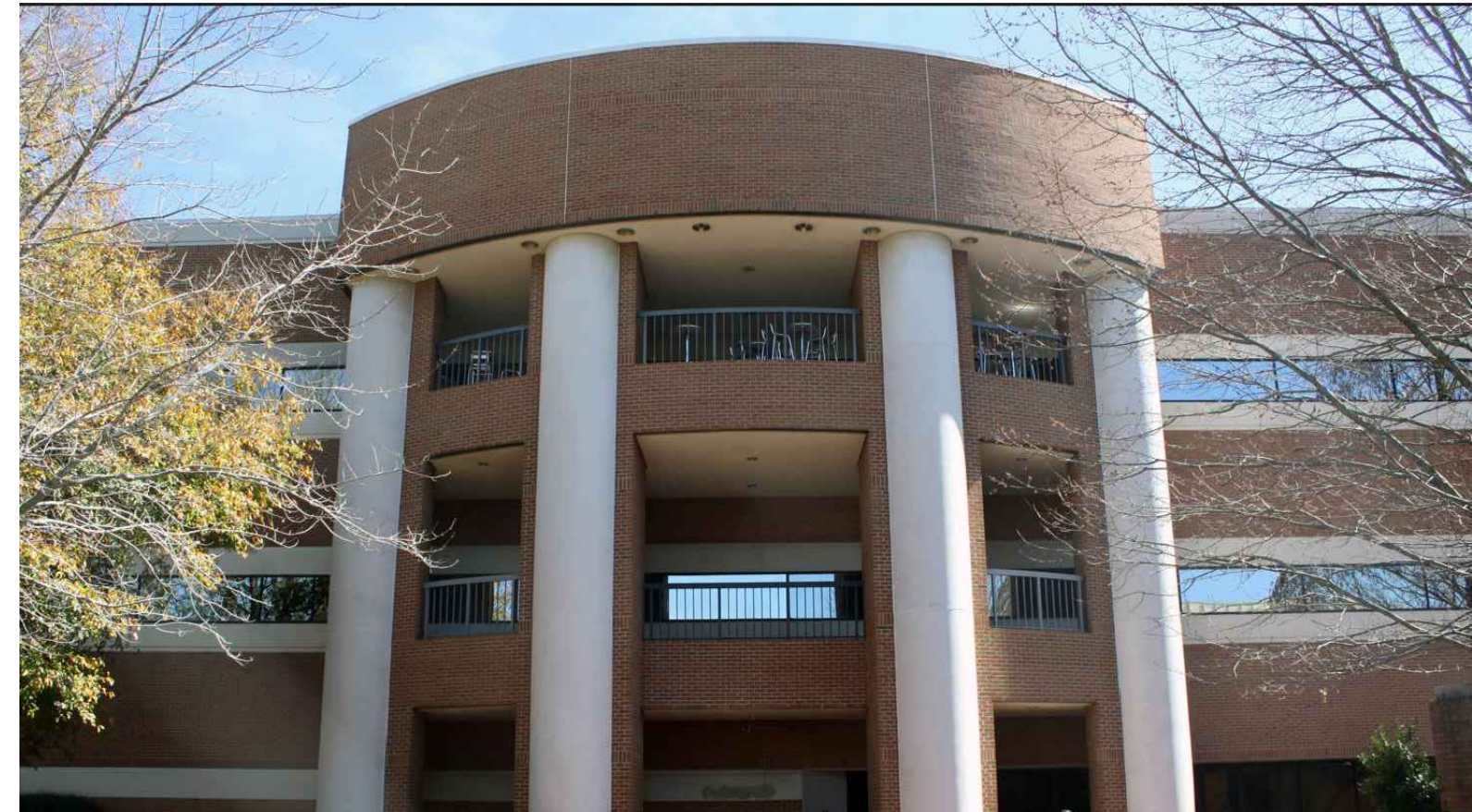




CHARLOTTE

FRIDAY BUILDING



REESE BUILDING



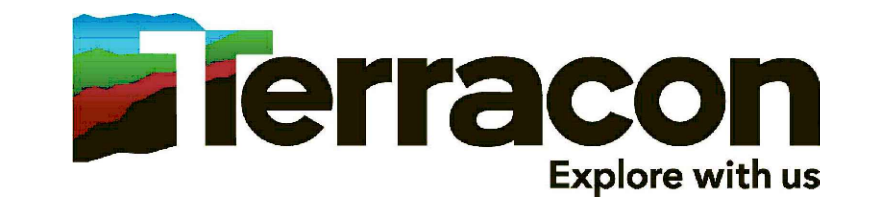
UNC AT CHARLOTTE

REESE & FRIDAY ROOFS

SCO ID No. 22-24654-01

CODE: 42126 ITEM: 320

ENGINEERING CONSULTANT



2701 Westport Rd
Charlotte, NC 28208

Vu The Nguyen, EI, RRC, RWC, BECxP, CxA+BE
Senior Facilities Professional | Facilities
e: vu.nguyen@terracon.com
p: 704.594.8931

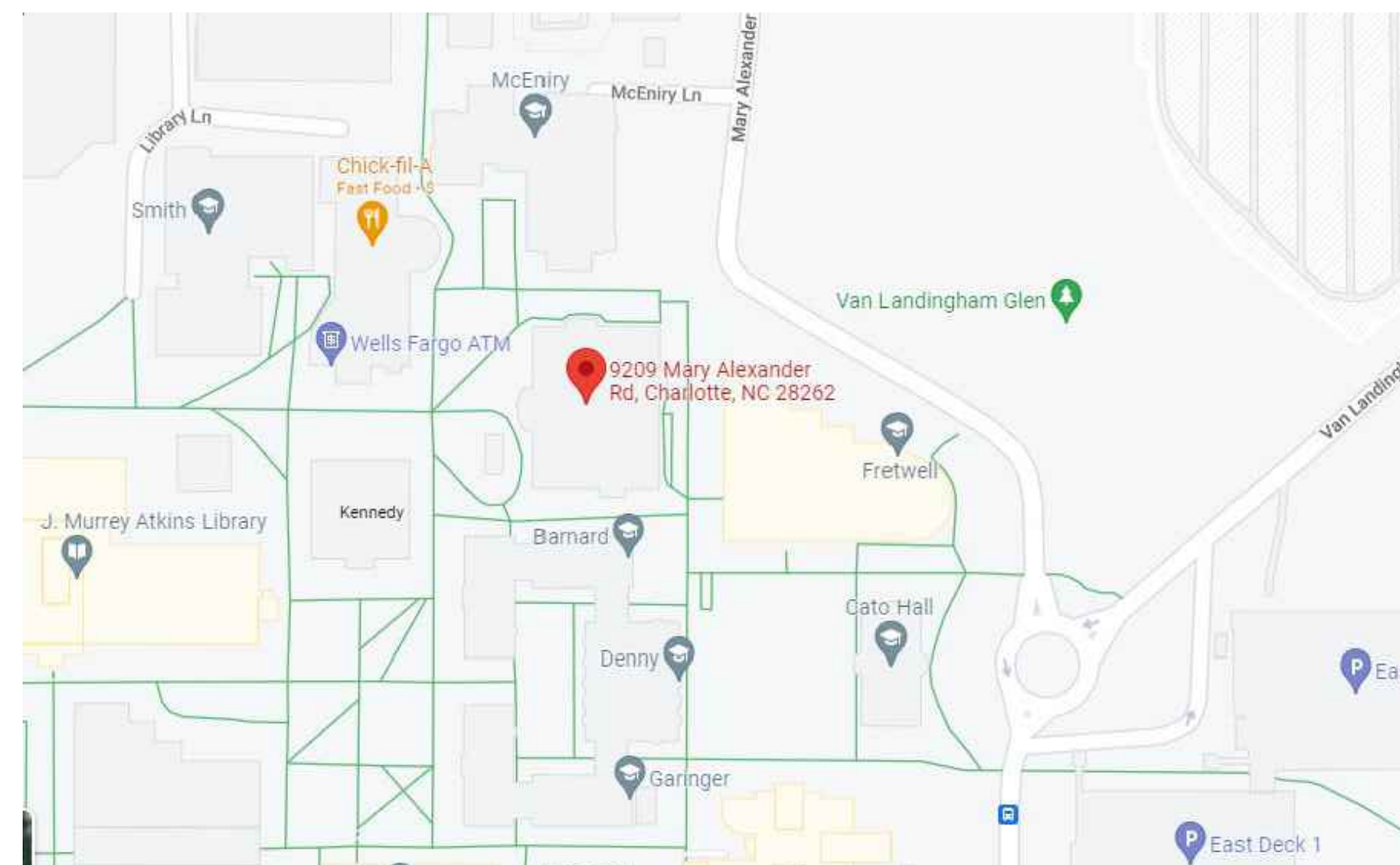
Thomas Lambdin, EI
Field Engineer | Facilities
e: thomas.lambdin@terracon.com
p: 704.594.8924

Project Addresses

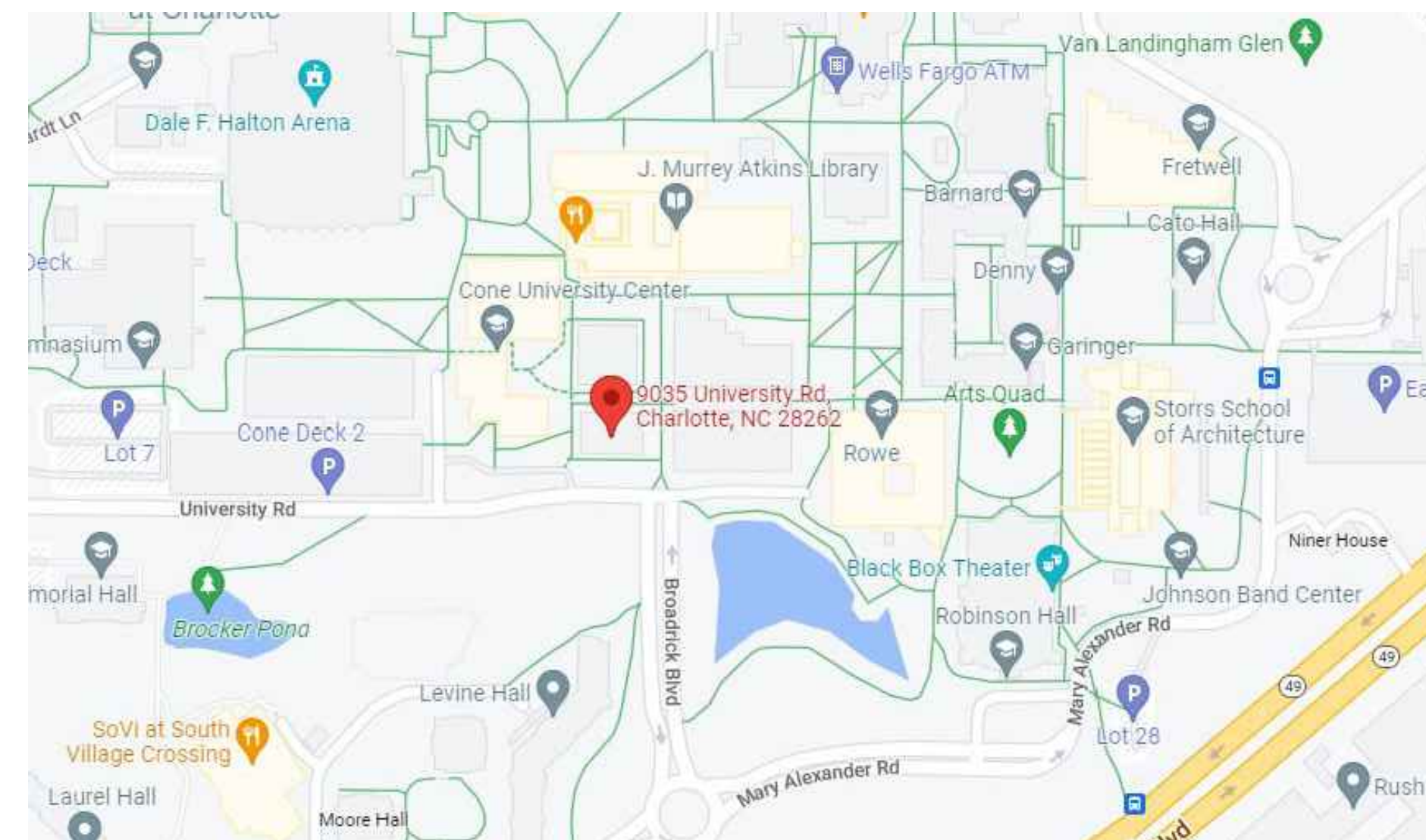
FRIDAY BUILDING
9209 MARY ALEXANDER ROAD
CHARLOTTE NC, 28262

REESE BUILDING
9035 UNIVERSITY ROAD
CHARLOTTE, NC 28223

PROJECT LOCATION



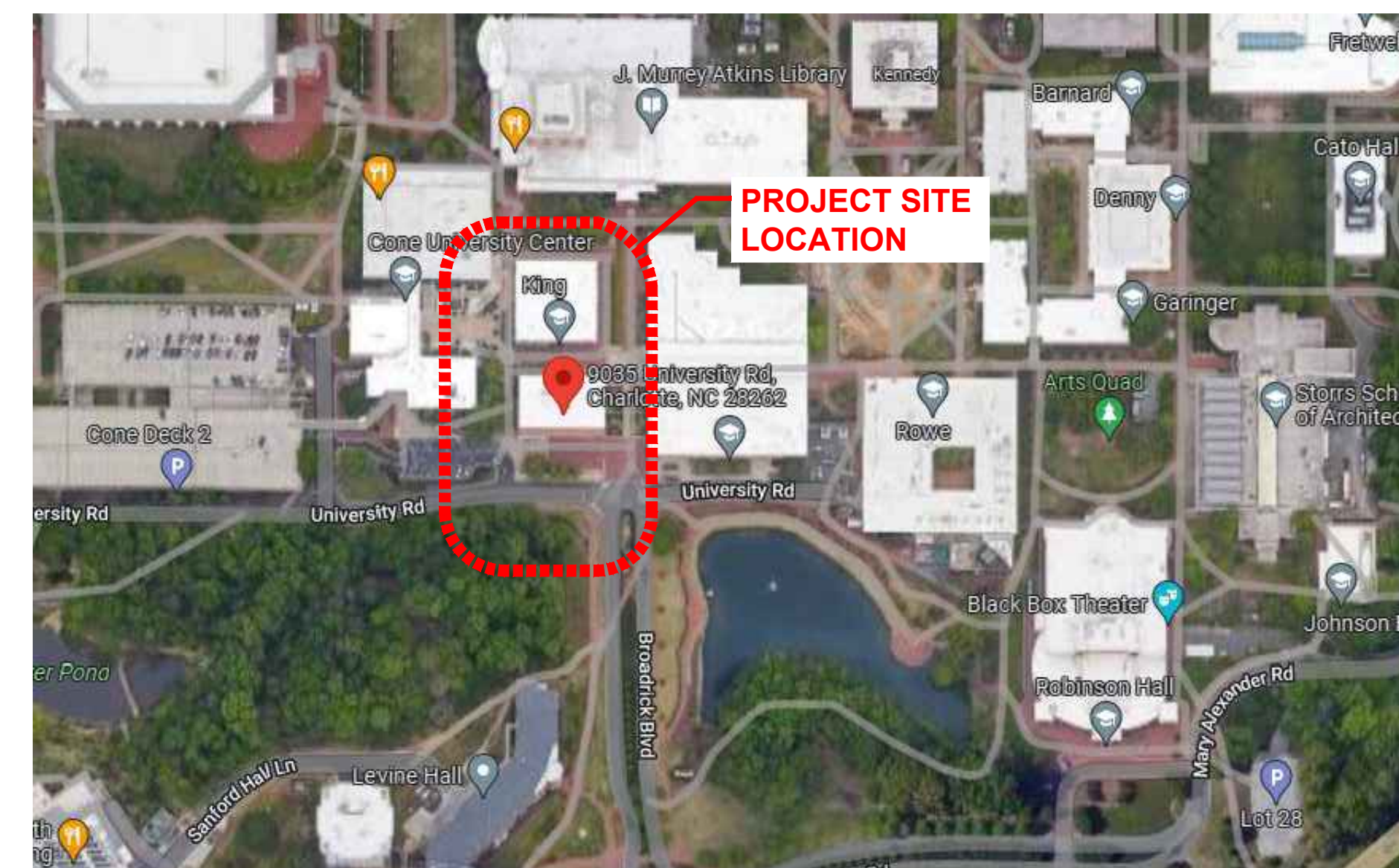
FRIDAY BUILDING VICINITY MAP



REESE BUILDING VICINITY MAP



FRIDAY BUILDING LOCATION MAP



REESE BUILDING LOCATION MAP

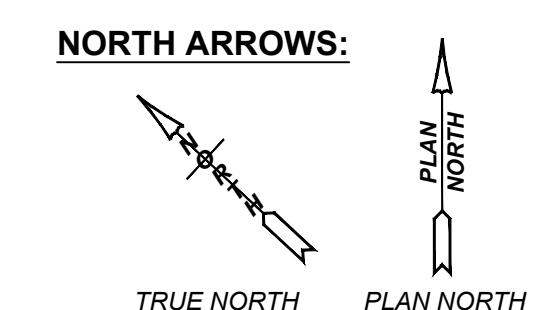
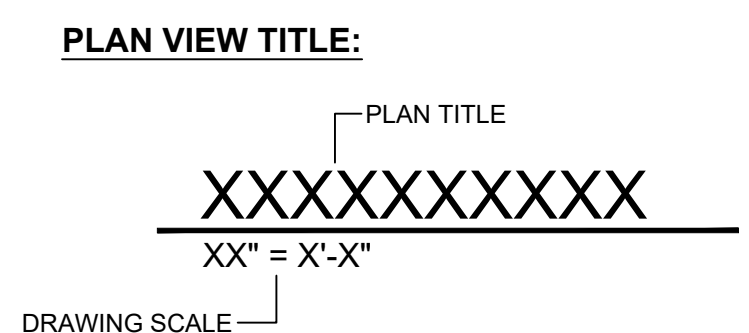
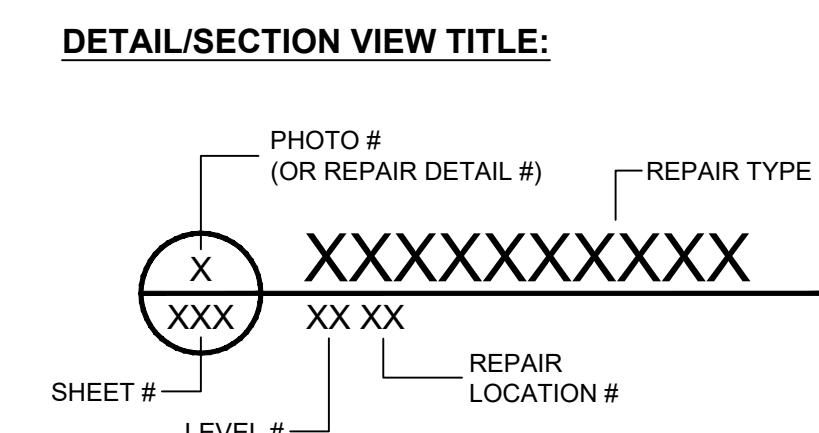
DRAWING INDEX

- G-101 COVER SHEET
- G-102 CODE SHEET
- A-101 FRIDAY BUILDING ROOF PLAN
- A-201 REESE BUILDING ROOF PLAN
- A-301 FRIDAY BUILDING DETAILS
- A-302 FRIDAY BUILDING DETAILS
- A-401 REESE BUILDING DETAILS
- A-402 REESE BUILDING DETAILS
- W-101 FRIDAY BUILDING ANCHOR LAYOUT PLAN
- W-102 REESE BUILDING ANCHOR LAYOUT PLAN
- W-201 FRIDAY & REESE BUILDING DAVIT SUPPORT DETAILS

ABBREVIATION LIST

- OD OVERFLOW DRAIN
- OS OVERFLOW SCUPPER
- DR DRAIN
- FH FALL HAZARD
- SJ SEALANT JOINT

SYMBOL LEGEND



TERRACON PROJECT NUMBER:
FH226151

ISSUE DATE:
12-8-2022

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
 - SURVEY REPORT - REPAIR DOCUMENTS NOT FOR CONSTRUCTION
 - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
 - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
 - PERMITTING / BIDDING
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
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ENGINEER STATE LICENSE SEAL

DRAWING BID SET NUMBER

TITLE SHEET
COVER SHEET

SHEET NUMBER

G-101

APPENDIX D

Building Code Summary

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL ROOF PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE - REESE BUILDING ROOF REPLACEMENT
Address: 9035 UNIVERSITY ROAD, CHARLOTTE NC
Zip Code 28223
Proposed Use:
Owner/Authorized Agent: _____ Phone # (____) _____ - _____
E-Mail: _____
Owned By: City/County Private State
Code Enforcement Jurisdiction: City _____ County _____ State

LEAD DESIGN PROFESSIONAL:
DESIGN FIRM* TERRACON CONSULTANTS, INC.
DESIGN NAME TERRACON CONSULTANTS, INC.
LICENSE # _____ TELEPHONE # _____ E-MAIL _____

2012 EDITION OF NC CODE FOR: New Construction Recover Repair
CONSTRUCTED: (date) _____
REPAIR: (date) _____
RECOVER: (date) _____

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
(check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary)
Building Height: (feet) _____

ALLOWABLE AREA
Occupancy: Assembly

- Prescriptive (ASHRAE 90.1)
- Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly)
Description of assembly: ADDITION OF A REINFORCED ROOF COATING
U-Value of total assembly: _____
R-Value of insulation: 15
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A sq.ft.

ROOF DRAINAGE SYSTEM DESIGN CALCULATION/SIZING

Existing system calculation: EXISTING DRAINAGE SUFFICIENT

Modification to existing system: N/A

New (where none exists) secondary system: N/A

APPENDIX D

Building Code Summary

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL ROOF PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE - FRIDAY BUILDING ROOF REPLACEMENT
Address: 9209 MARY ALEXANDER ROAD, CHARLOTTE NC
Zip Code 28262
Proposed Use:
Owner/Authorized Agent: _____ Phone # (____) _____ - _____
E-Mail: _____
Owned By: City/County Private State
Code Enforcement Jurisdiction: City _____ County _____ State

LEAD DESIGN PROFESSIONAL:
DESIGN FIRM* TERRACON CONSULTANTS, INC.
DESIGN NAME TERRACON CONSULTANTS, INC.
LICENSE # _____ TELEPHONE # _____ E-MAIL _____

2012 EDITION OF NC CODE FOR: New Construction Recover Repair
CONSTRUCTED: (date) _____
REPAIR: (date) _____
RECOVER: (date) _____

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
(check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary)
Building Height: (feet) _____

ALLOWABLE AREA
Occupancy: Assembly

- Prescriptive (ASHRAE 90.1)
- Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly)
Description of assembly: ADDITION OF 2.6" POLYISOCYANURATE INSULATION AND HD COVERBOARD ON TOP OF EXISTING SYSTEM
U-Value of total assembly: _____
R-Value of insulation: 25
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A sq.ft.

ROOF DRAINAGE SYSTEM DESIGN CALCULATION/SIZING

Existing system calculation: EXISTING DRAINAGE SUFFICIENT

Modification to existing system: N/A

New (where none exists) secondary system: N/A

- Business
- Educational
- Factory F-1 and F-2
- Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
- Institutional
- Mercantile
- Residential R-1 R-2 R-3 R-4
- Storage S-1, S-2, Parking Garage, Repair Garage
- Utility and Miscellaneous

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY
Roof Construction Including supporting beams and joists			

STRUCTURAL DESIGN

DESIGN LOADS:
Wind Uplift Resistance (This section to be duplicated for each distinct roof area)

Basic Wind Speed 120 mph (ASCE-7)
Exposure Category B
Design Pressure (psf):
Field -44.1
Perimeter -69.2
Perimeter Width 8 ft
Corner -94.3
Corner Dimension 16

Dead Loads: Existing Roof Load 1 psf
Roof Load 1.5 psf
Net Load Change 0.5 psf

Snow Load: _____ psf

ENERGY SUMMARY

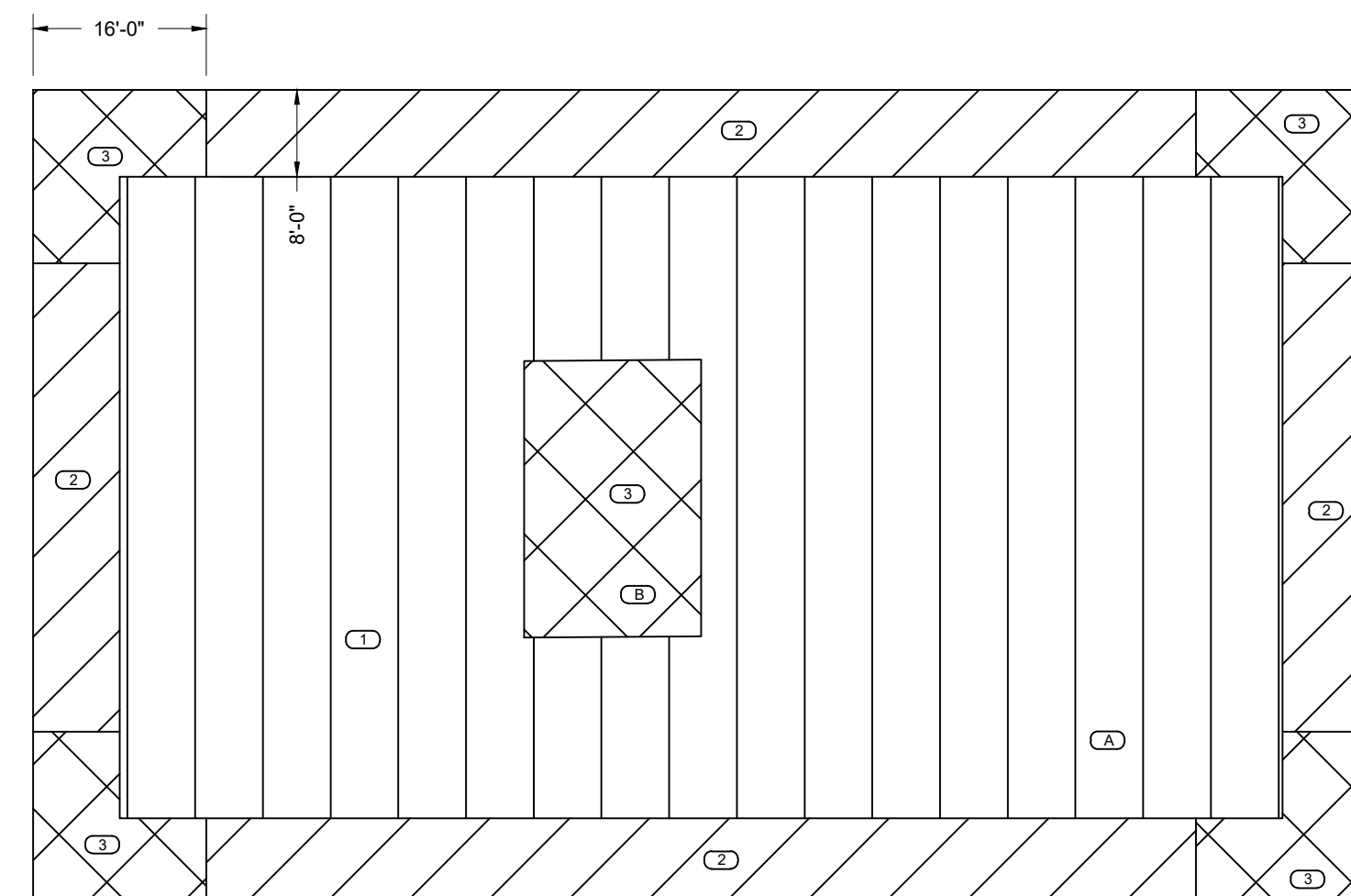
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: 3 4 5

Method of Compliance:
 Prescriptive (Energy Code)
 Performance (Energy Code)

ZONE SCHEDULE

ZONE 1: -44.1 LB/FT²
ZONE 2: -69.2 LB/FT²
ZONE 3: -94.3 LB/FT²



1 REESE BUILDING WIND ZONE PLAN

NOT TO SCALE

- Business
- Educational
- Factory F-1 and F-2
- Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
- Institutional
- Mercantile
- Residential R-1 R-2 R-3 R-4
- Storage S-1, S-2, Parking Garage, Repair Garage
- Utility and Miscellaneous

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY
Roof Construction Including supporting beams and joists			

STRUCTURAL DESIGN

DESIGN LOADS:
Wind Uplift Resistance (This section to be duplicated for each distinct roof area)

Basic Wind Speed 120 mph (ASCE-7)
Exposure Category B
Design Pressure (psf):
Field -29.9
Perimeter -50.3
Perimeter Width 16 ft
Corner -75.6
Corner Dimension 16

Dead Loads: Existing Roof Load 13.5 psf
Replacement Roof Load 4.5 psf
Net Load Change -9 psf

Snow Load: _____ psf

ENERGY SUMMARY

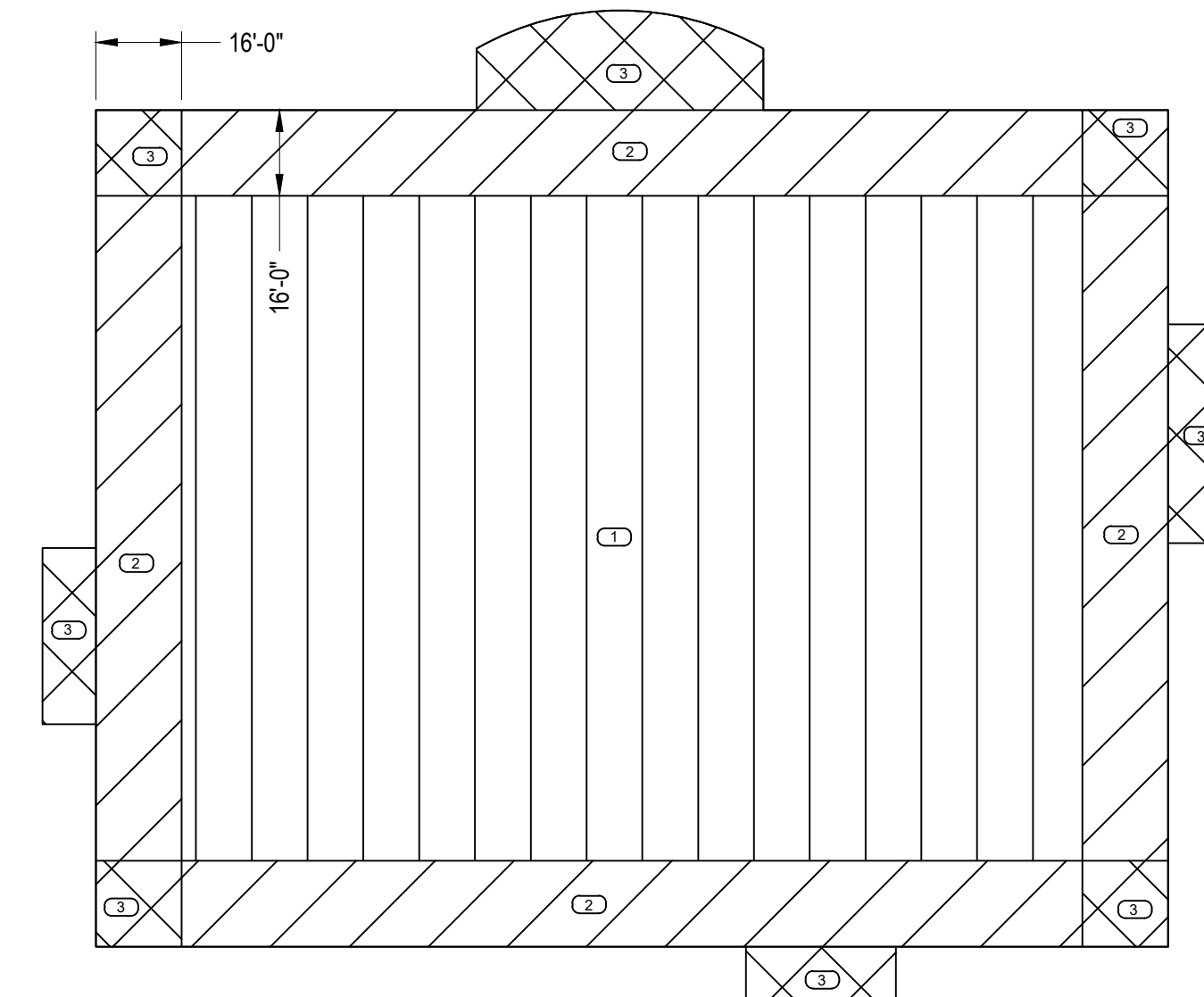
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: 3 4 5

Method of Compliance:
 Prescriptive (Energy Code)
 Performance (Energy Code)

ZONE SCHEDULE

ZONE 1: -29.9 LB/FT²
ZONE 2: -50.3 LB/FT²
ZONE 3: -75.6 LB/FT²



1 FRIDAY BUILDING WIND ZONE PLAN

NOT TO SCALE



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TERRACON NC LICENSE NO. F-0869

ENGINEER STATE LICENSE SEAL

REESE & FRIDAY ROOFS
UNC AT CHARLOTTE
CHARLOTTE, NC

CODE SHEET

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: SSS

ISSUE FOR:

- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
- SURVEY REPORT - REPAIR DOCUMENTS NOT FOR CONSTRUCTION
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- CONSTRUCTION DOCUMENTS
- ADDENDUM SUBMITTAL
- RECORD DRAWINGS

ISSUE DATE:

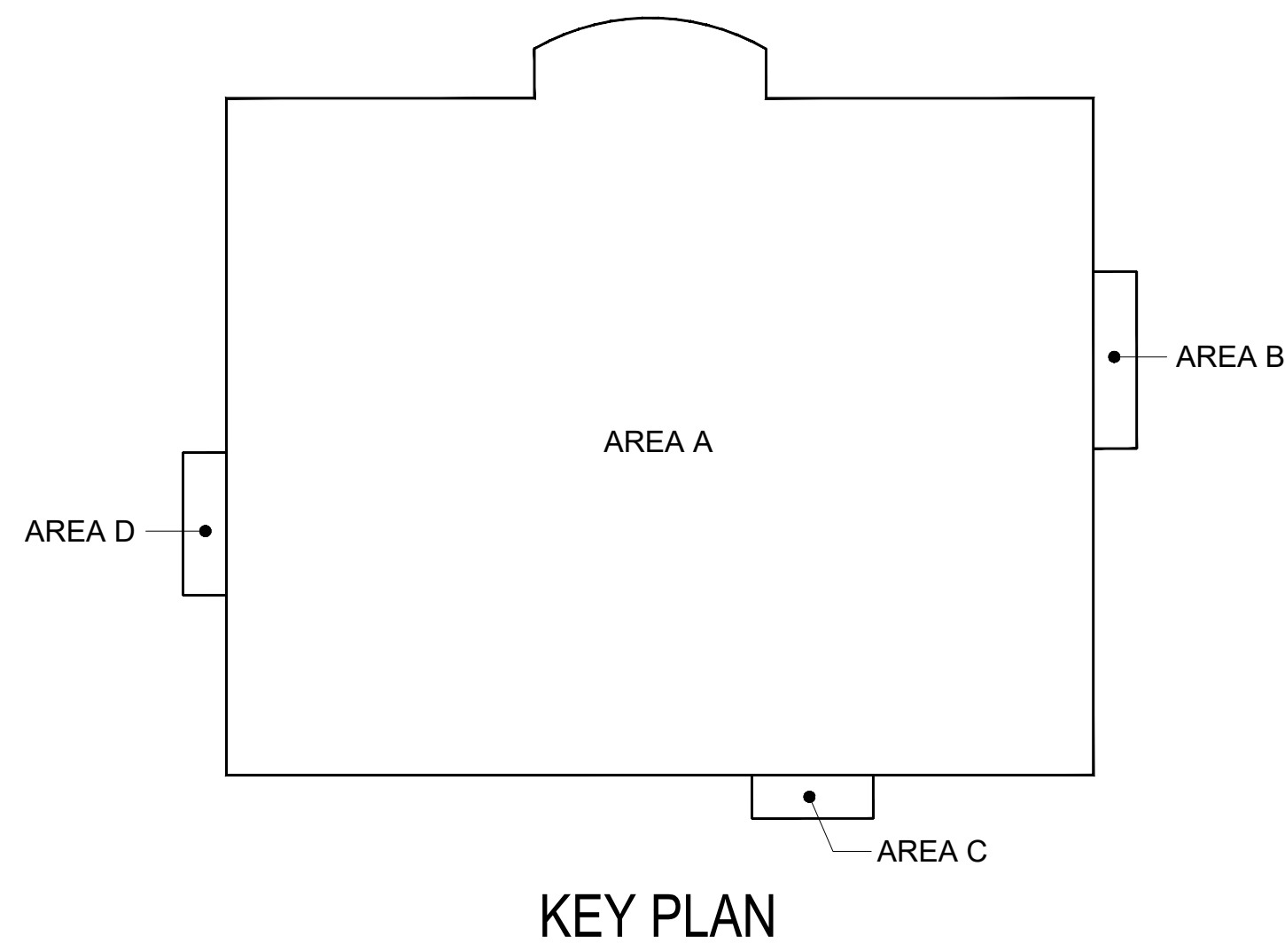
12-8-2022

SHEET NUMBER

G-102

GENERAL NOTES

1. WORK UNDER THE **FRIDAY BUILDING BASE BID** IS AS FOLLOWS:
 - a. ALL WORK IS ON ROOF AREAS A, B, C, AND D. ROOF AREA A HAS METAL DECKING AND AREAS B, C, AND D HAS CONCRETE DECK.
 - b. REMOVE EXISTING BALLAST AND EPDM MEMBRANE AND DISCARD.
 - c. INSULATION SHALL REMAIN IN PLACE, EXCEPT WHERE MOISTURE HAS BEEN DETECTED. WET MATERIALS SHALL BE REMOVED AND REPLACED WITH NEW.
 - d. INSTALL NEW RIGID INSULATION AND MECHANICALLY FASTEN THROUGH EXISTING LAYERS TO THE DECK. INSTALL NEW COVER BOARD IN INSULATION ADHESIVES. INSTALL NEW FULLY ADHERED THERMOPLASTIC SINGLE PLY MEMBRANE.
 - e. REMOVE AND REPLACE THE EXISTING COPING CAP WITH NEW PREFINISHED GALVALUME.
 - f. 3 LARGE HVAC UNITS WILL NEED TO BE LIFTED TO HAVE EXISTING FLASHINGS REMOVED, THE ROOF CURB RAISED. LIFT HVAC UNITS ON AREA A TEMPORARILY TO ALLOW ACCESS FOR ROOF FLASHINGS UNDERNEATH. RAISE SLEEPER/CURB HEIGHT TO ACHIEVE MINIMUM 12 INCHES OF BASE FLASHING HEIGHT ABOVE NEW FINISHED ROOF SURFACE. THIS WORK SHOULD BE COORDINATED WITH THE UNIVERSITY DURING OFF HOURS, WEEKENDS, OR HOLIDAYS. THE UNIT WILL NEED TO BE TEMPORARILY TAKEN OFFLINE. CONTRACTOR IS TO INCLUDE ALL COSTS AS REQUIRED FOR MODIFICATIONS OF THE DUCTWORK EXTENSIONS AND PIPING. HVAC EQUIPMENT ON FRIDAY BUILDING WILL REQUIRE DRAIN AND REFILL OF REFRIGERANT, WHICH WILL BE ACCOMPLISHED BY UNIVERSITY STAFF. CONTRACTOR WILL BE REQUIRED TO COORDINATE ROOFING WORK WITH THE UNIVERSITY. NOT MORE THAN 1 UNIT CAN BE TAKEN OFF-LINE AT ONE TIME.
 - g. PROVIDE OVERHEAD SCAFFOLDING PROTECTION AT ALL ENTRANCEWAYS WHILE WORK IS IN PROGRESS ON THE ROOF.
 - h. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, AND DIMENSIONS.
 - i. (UNLESS OTHERWISE NOTED) CONTRACTOR TO PROVIDE A MINIMUM OF 8-INCH FLASHING HEIGHT TO ALL EQUIPMENT, PIPE PENETRATIONS AND CURBS FROM NEW FINISHED ROOF SURFACE. CONTRACTOR TO INCLUDE IN BASE BID ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO CRANE, MODIFICATION TO ELECTRICAL, MECHANICAL AND PLUMBING.
2. WORK UNDER **ALTERNATE NO. 1FB** IS ON FRIDAY BUILDING AND GENERALLY CONSISTS OF FURNISHING AND INSTALLATION OF FALL PROTECTION SYSTEM. REFER SHEET DRAWING W-101.
3. WORK UNDER **ALTERNATE NO. 2FB** IS ON FRIDAY BUILDING AND GENERALLY CONSISTS OF FURNISHING AND INSTALLATION OF FIXED LADDERS AT LOCATIONS INDICATED ON ROOF PLAN. 3 LADDERS ARE TO BE INSTALLED PROVIDING ACCESS FROM ROOF AREA A DOWN TO AREAS B, C, AND D.



LEGEND

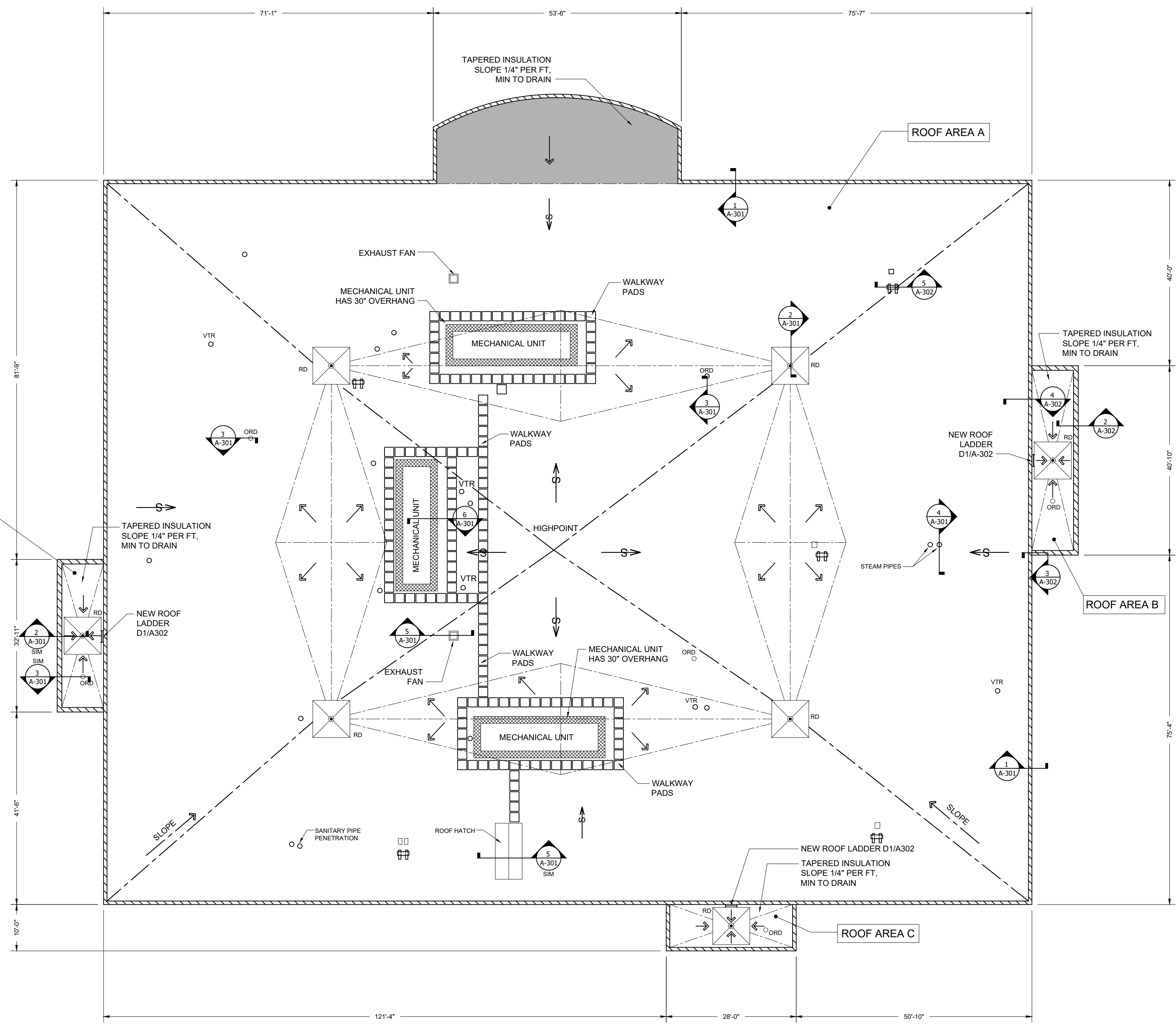
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	WALK PAD
	VENTILATOR
	OVERFLOW SCUPPER
	ROOF SCUTTLE
	ROOF DRAIN AND SUMP
	OVERFLOW ROOF DRAIN
	PLUMBING VENT STACK
	LADDER
	STRUCTURAL SLOPE
	TAPERED INSULATION SLOPE
	TAPERED INSULATION



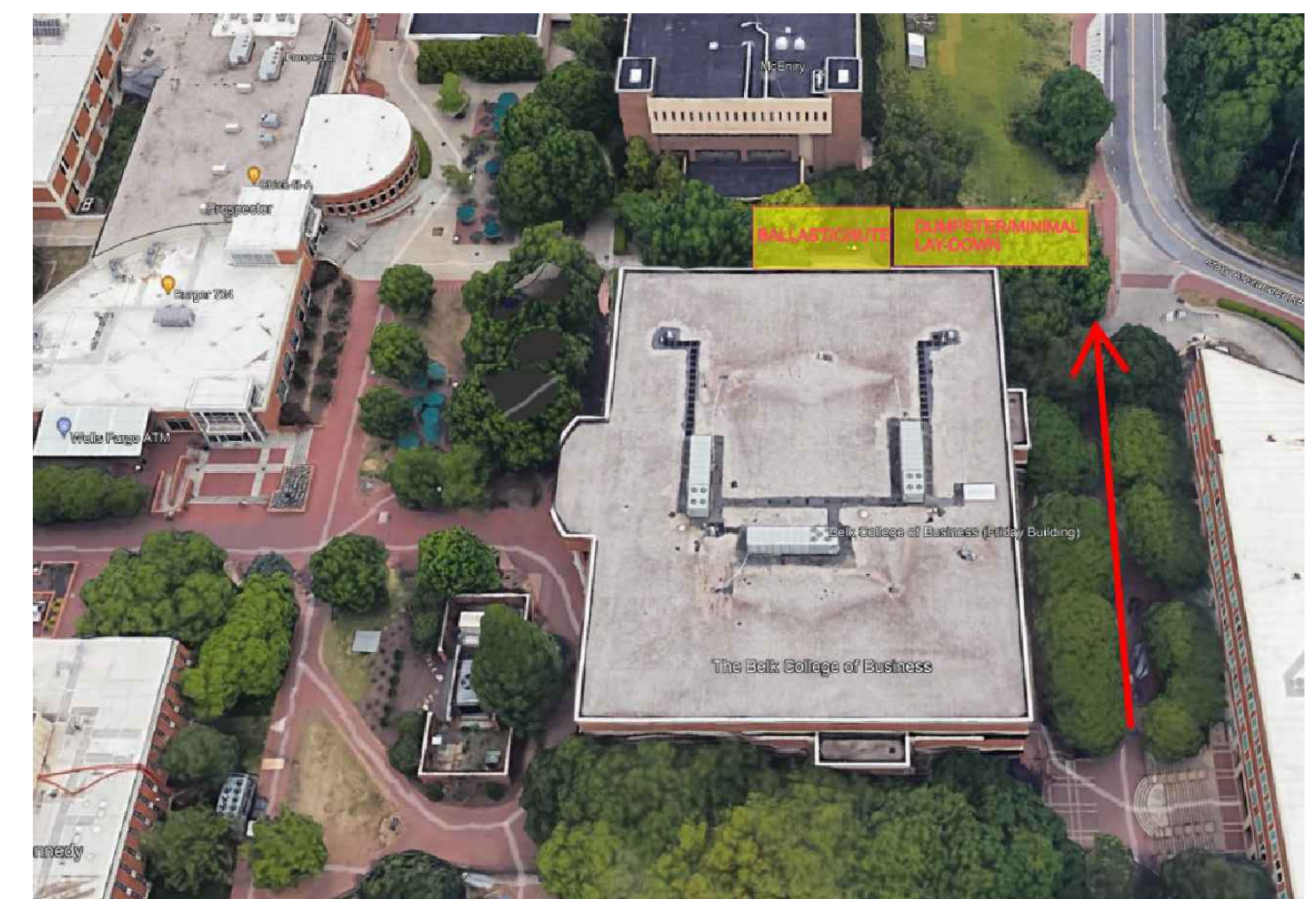
ENGINEER STATE LICENSE SEAL

REESE & FRIDAY ROOFS
UNC AT CHARLOTTE
 9209 MARY ALEXANDER ROAD
 CHARLOTTE, NC 28262

FRIDAY BUILDING ROOF PLAN



STAGING PLAN



1 FRIDAY BUILDING ROOF PLAN
 1/16" = 1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226151

DESIGNED BY: **NEA**

DRAWN BY: **SWP**

APPROVED BY: **LTH**

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
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 - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
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 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

ISSUE DATE:
12-8-2022

SHEET NUMBER
A-101

GENERAL NOTES

1. WORK UNDER THE REESE BUILDING BASE BID IS AS FOLLOWS:
 - a. ALL WORK IS ON ROOF AREAS A AND B.
 - b. THE EXISTING ROOF SYSTEM GENERALLY CONSISTS OF A THERMOPLASTIC ROOF MEMBRANE OVER RIGID INSULATION AND A CONCRETE ROOF DECK. FURNISH AND INSTALL NEW ROOF COATING SYSTEM WITH REINFORCING OVER THE EXISTING MEMBRANE.
 - c. INSULATION SHALL REMAIN IN PLACE, EXCEPT WHERE MOISTURE HAS BEEN DETECTED. WET MATERIALS SHALL BE REMOVED AND REPLACED WITH NEW.
 - d. REMOVE AND REPLACE THE EXISTING COPING CAP WITH NEW PREFINISHED GALVALUME.
 - e. MASONRY SEALER AT WALLS ABOVE AREA B. REPAIRS ASSOCIATED TO PENETRATIONS AND MASONRY WALL DEFICIENCIES ALSO TO BE INCLUDED UNDER BASE BID.
2. WORK UNDER **ALTERNATE NO. 1RB** IS ON REESE BUILDING AND GENERALLY CONSISTS OF FURNISHING AND INSTALLATION OF FALL PROTECTION SYSTEM. REFER SHEET DRAWING W-102.
3. WORK UNDER **ALTERNATE NO. 2RB** IS ON REESE BUILDING AND GENERALLY CONSISTS OF REMOVAL AND REPLACEMENT OF THROUGH WALL FLASHING AT WALLS ABOVE ROOF AREA B.

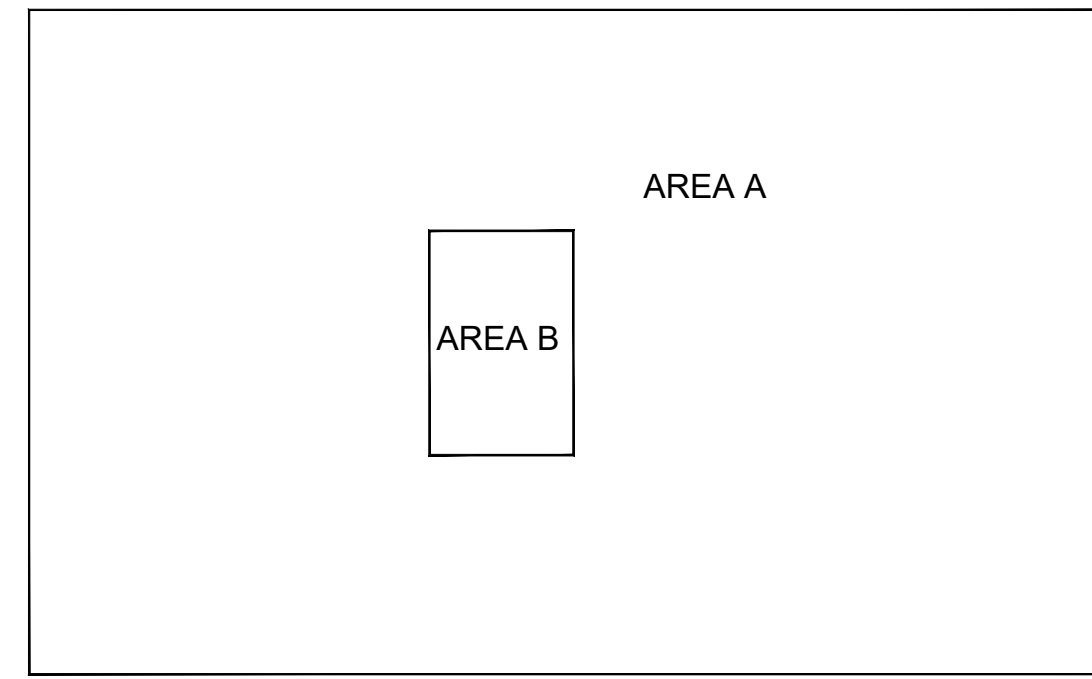
LEGEND

	PARAPET
	WALK PAD
	VENTILATOR
	OVERFLOW SCUPPER
	ROOF SCUTTLE
	ROOF DRAIN AND SUMP
	OVERFLOW ROOF DRAIN

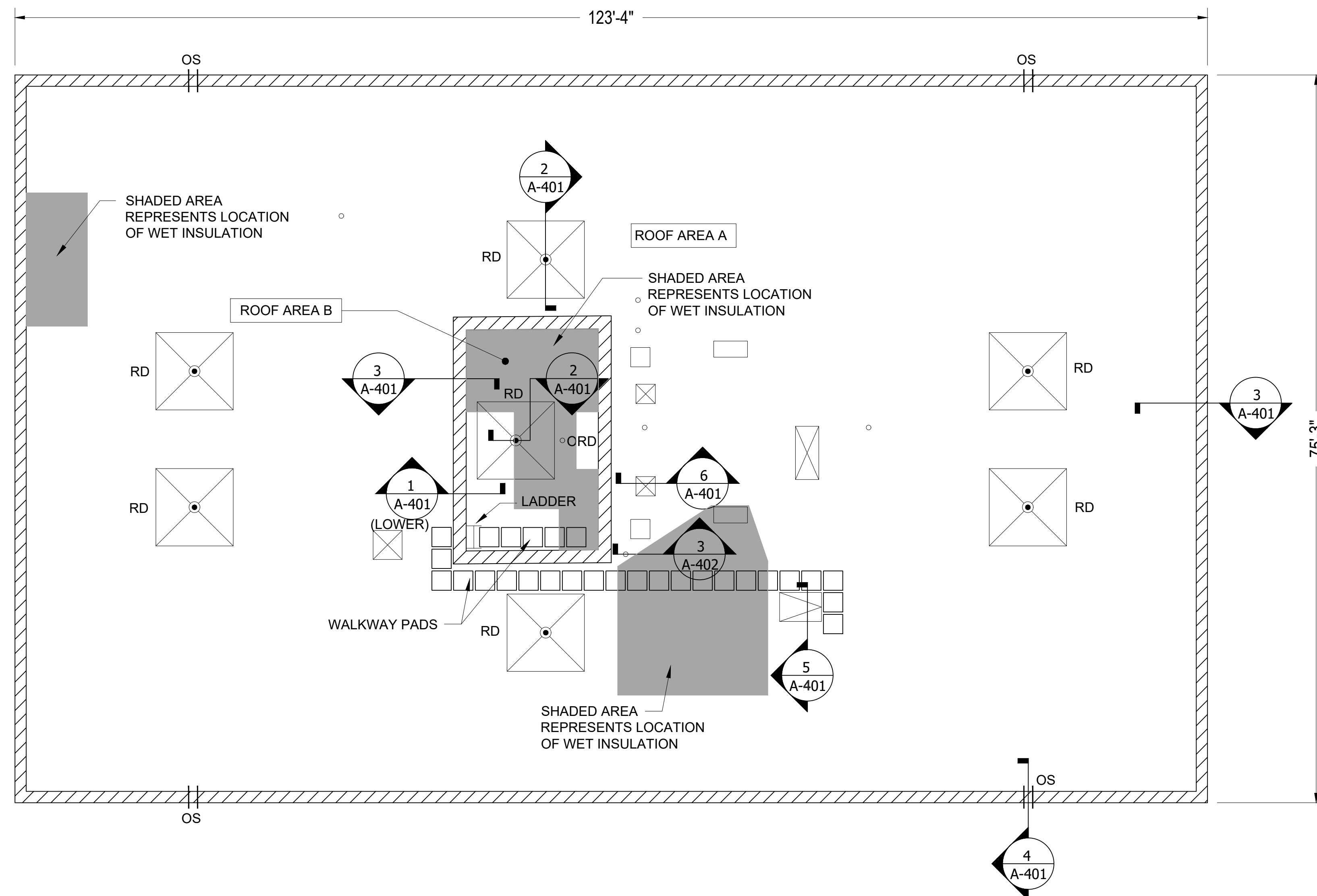


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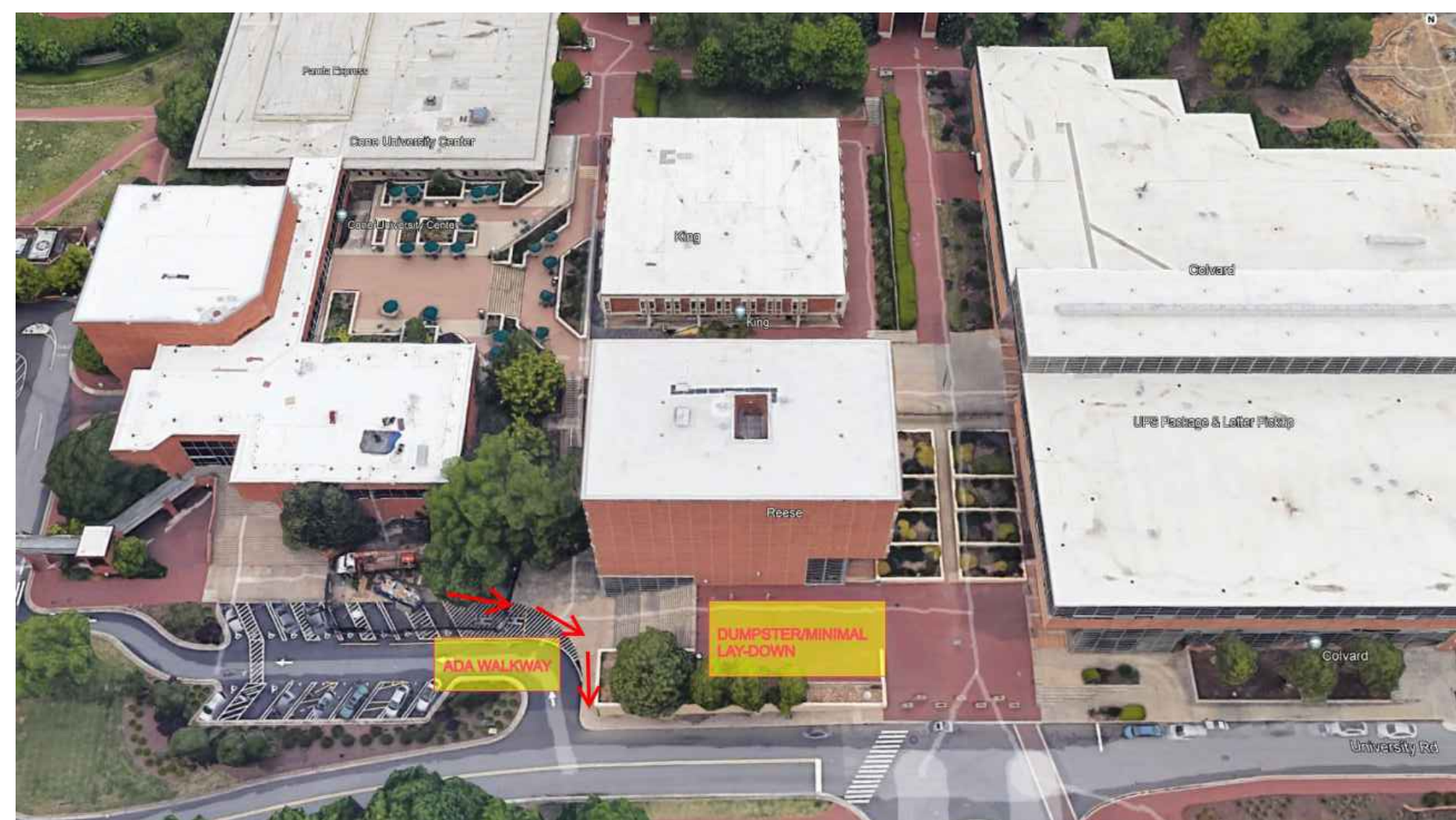


KEY PLAN



1 REESE BUILDING ROOF PLAN
 1/8" = 1'-0"

STAGING PLAN



REESE & FRIDAY ROOFS
UNC AT CHARLOTTE
 9035 UNIVERSITY ROAD
 CHARLOTTE, NC 28223
 REESE BUILDING ROOF PLAN

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
 FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: LTH

ISSUE FOR:

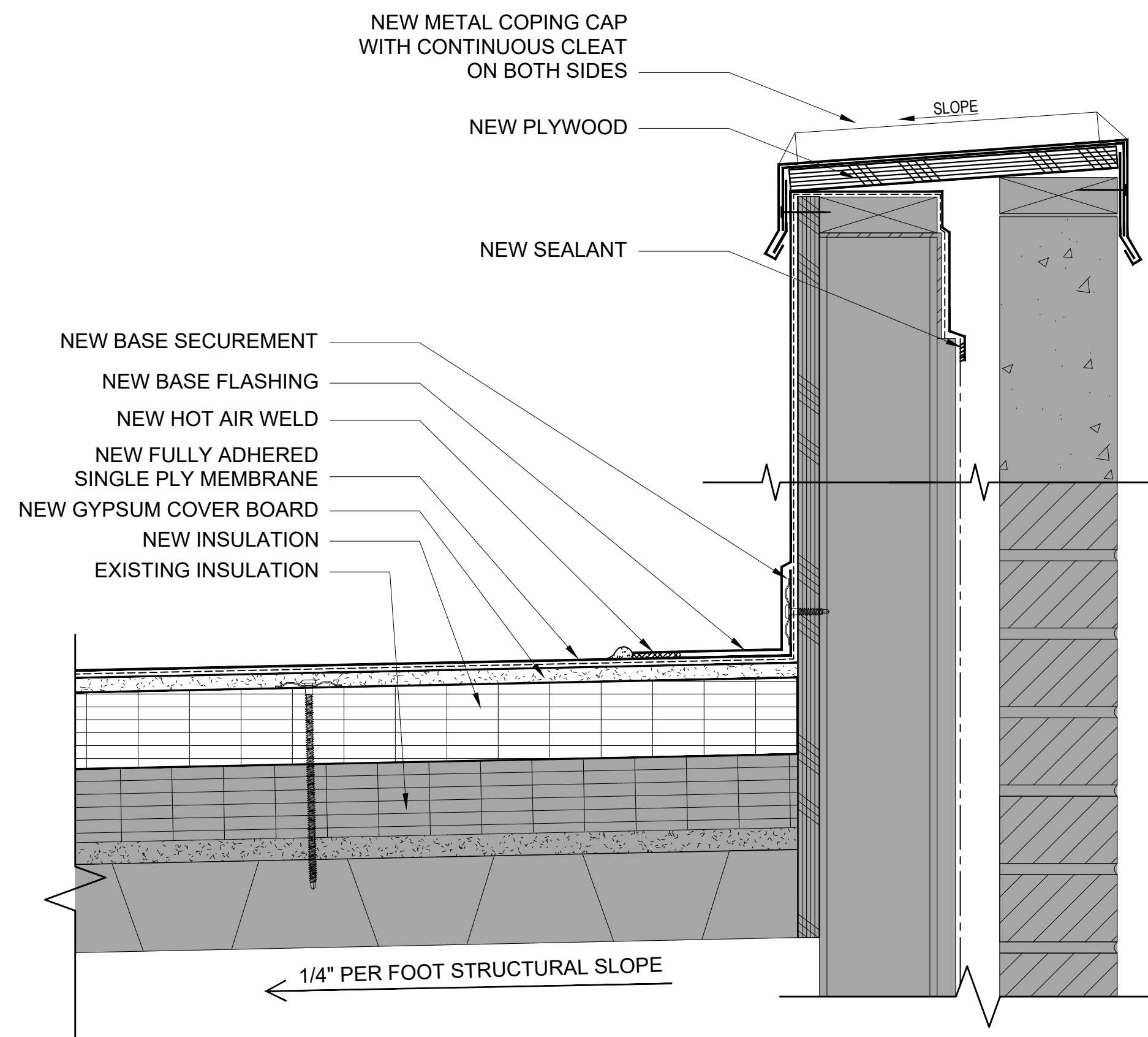
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- RECORD DRAWINGS

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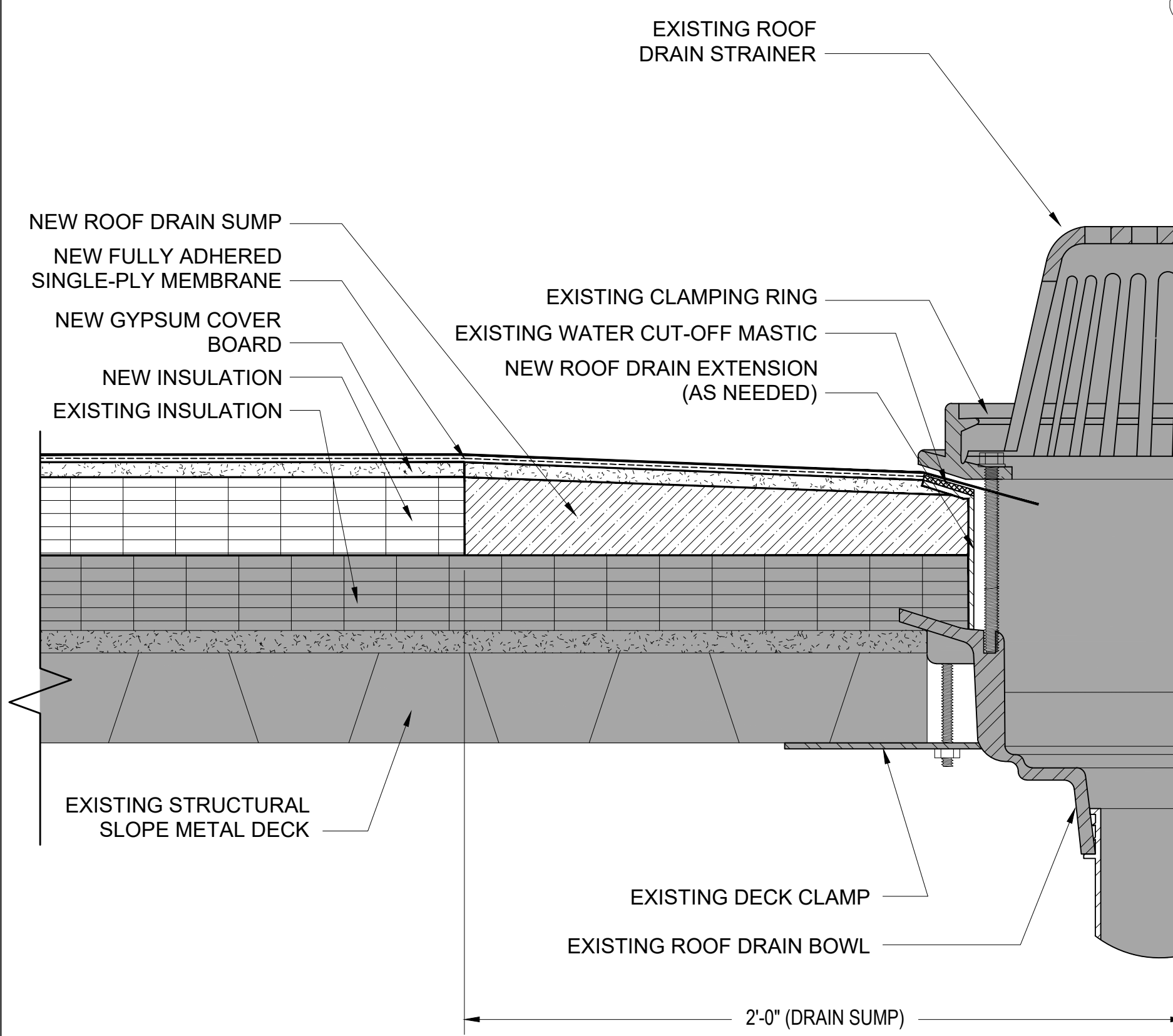
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SHEET NUMBER

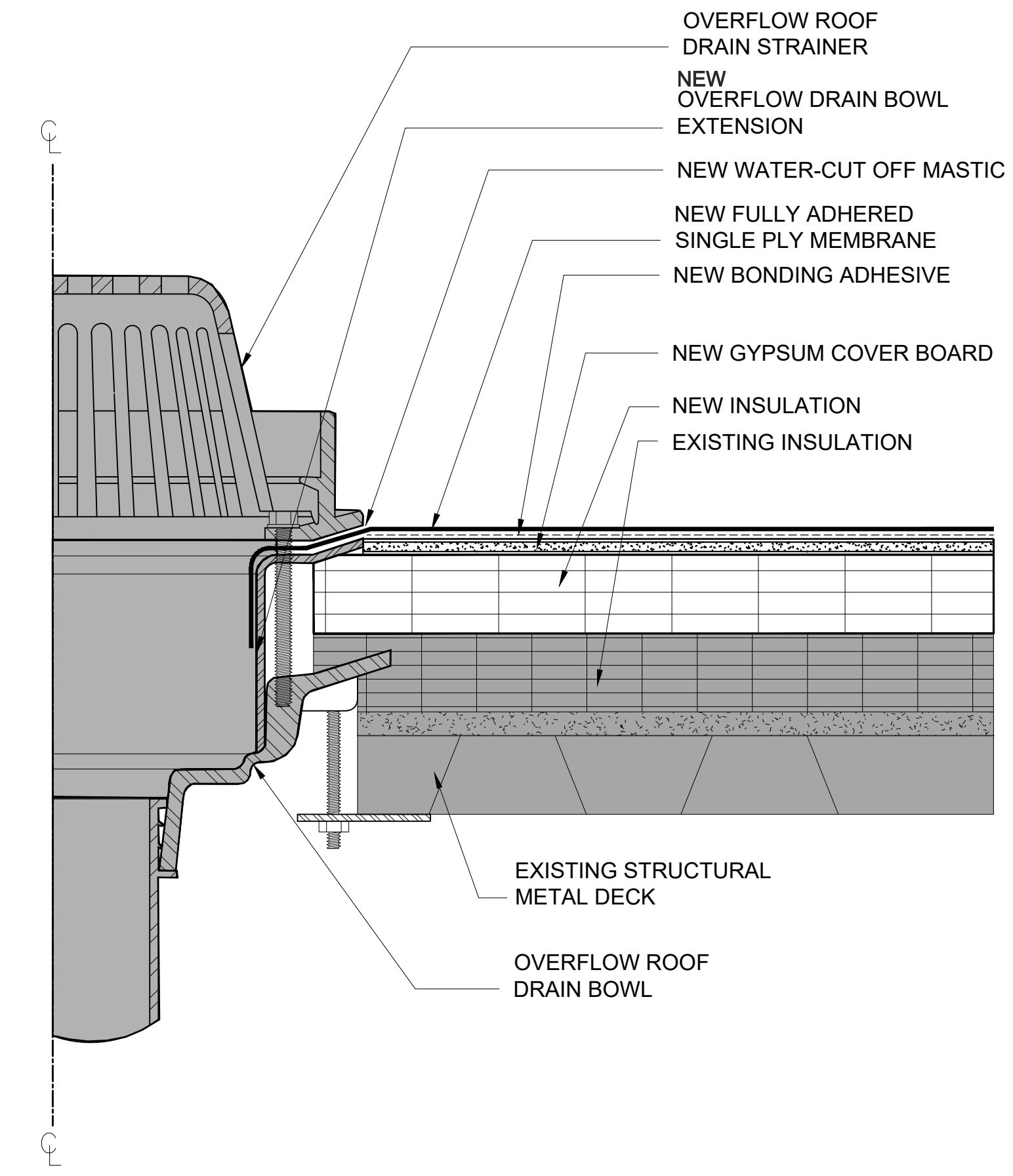
A-201



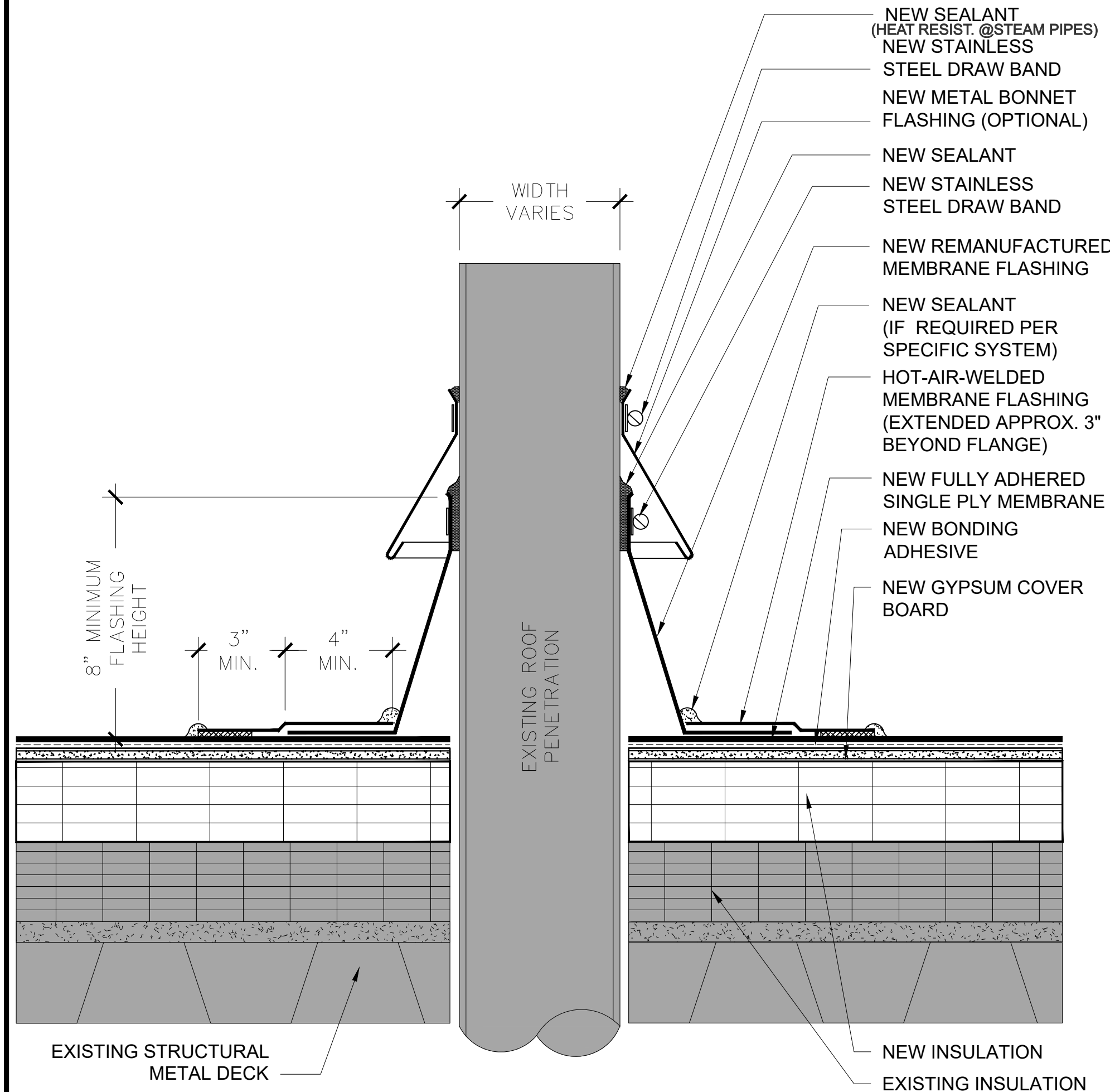
1 PARAPET WALL DETAIL
3"=1'-0"



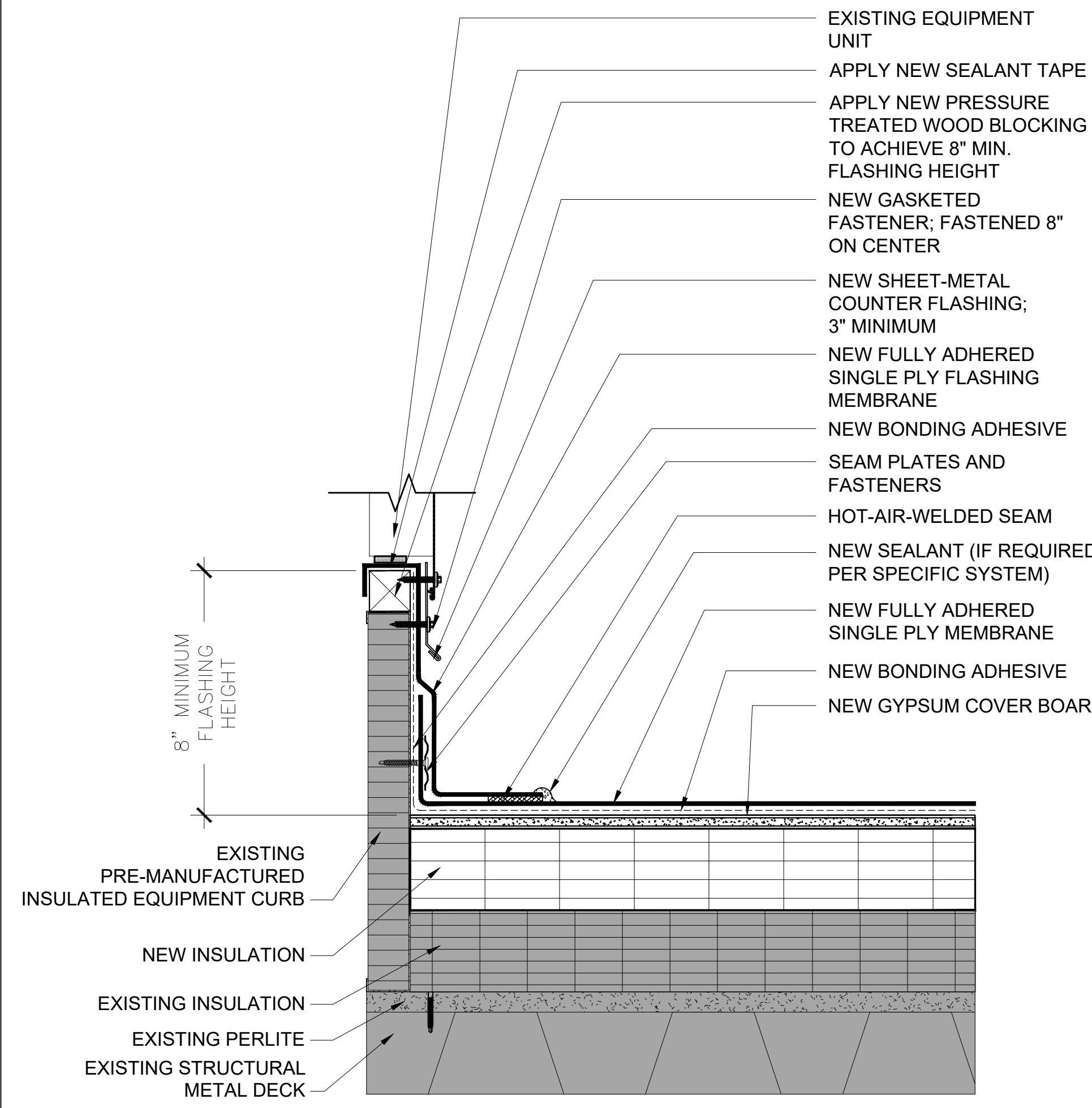
2 ROOF DRAIN DETAIL
3"=1'-0"



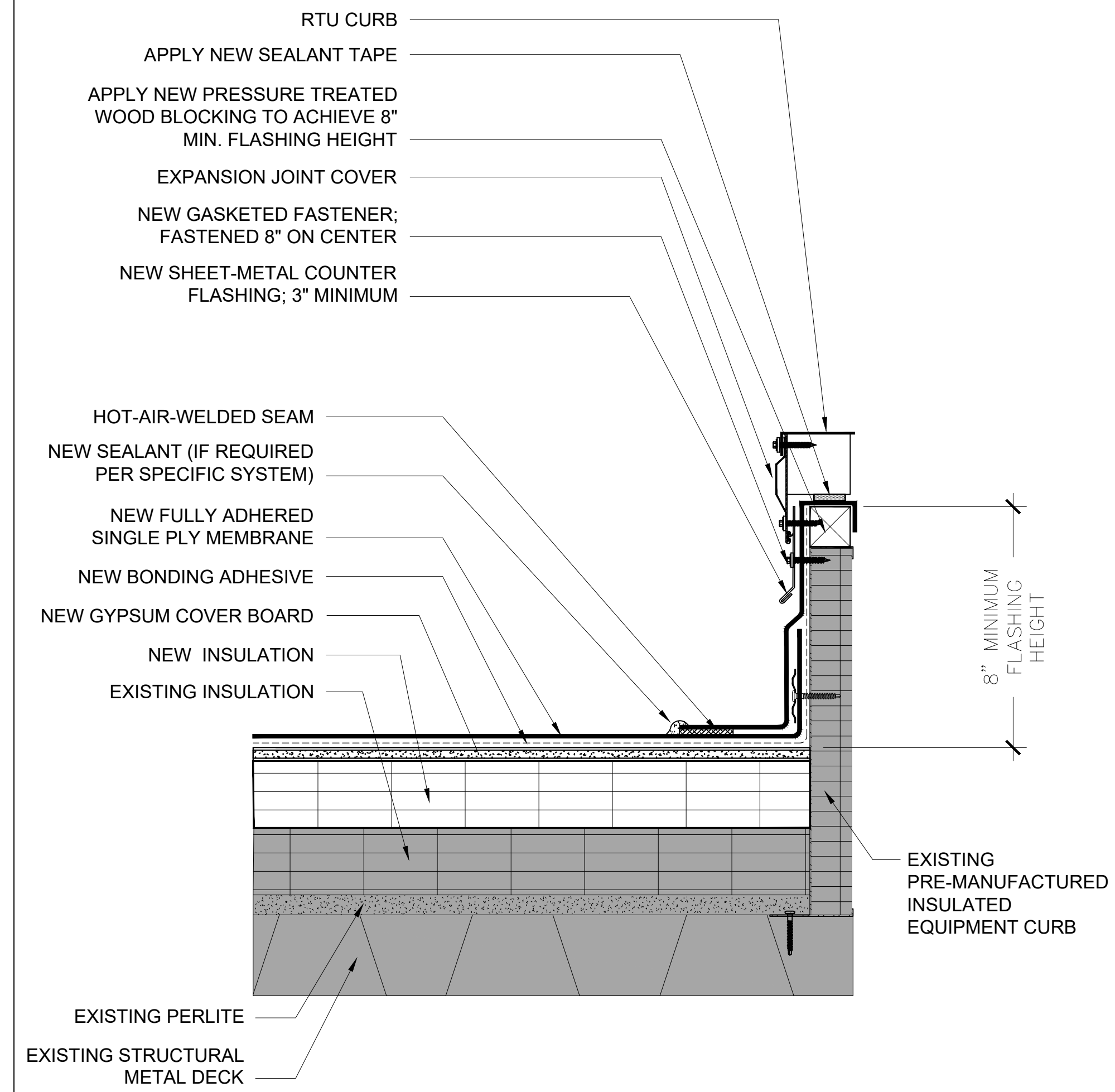
3 TYPICAL OVERFLOW ROOF DRAIN DETAIL
3"=1'-0"



4 ROOF PENETRATION
3"=1'-0"



5 PRE-MANUFACTURED CURB DETAIL (FASTENED TO DECK)
3"=1'-0"



6 LARGE ROOFTOP UNIT CURB DETAIL
3"=1'-0"

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NO.	DATE	DESCRIPTION
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3		
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DRAWN BY: SWP

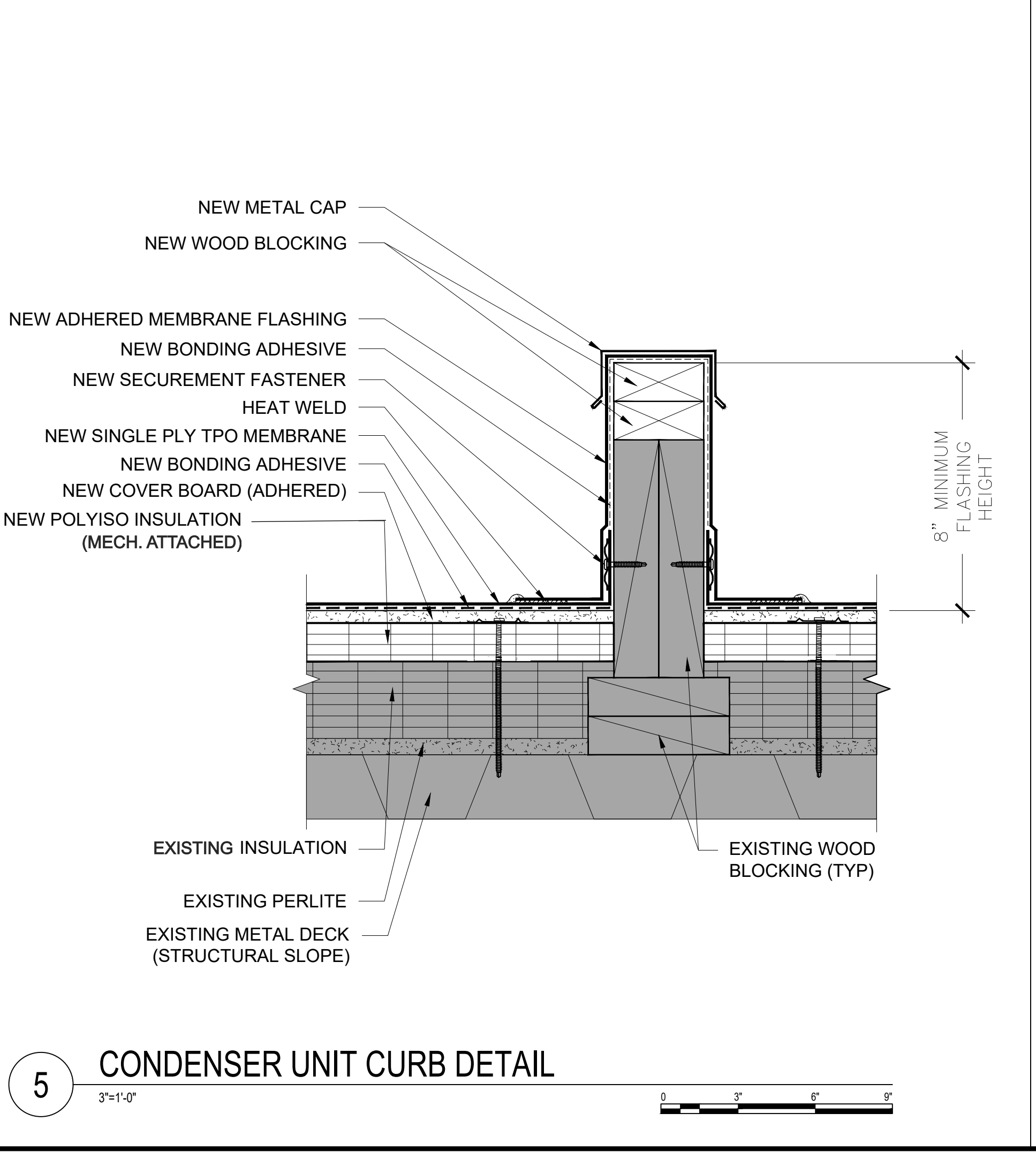
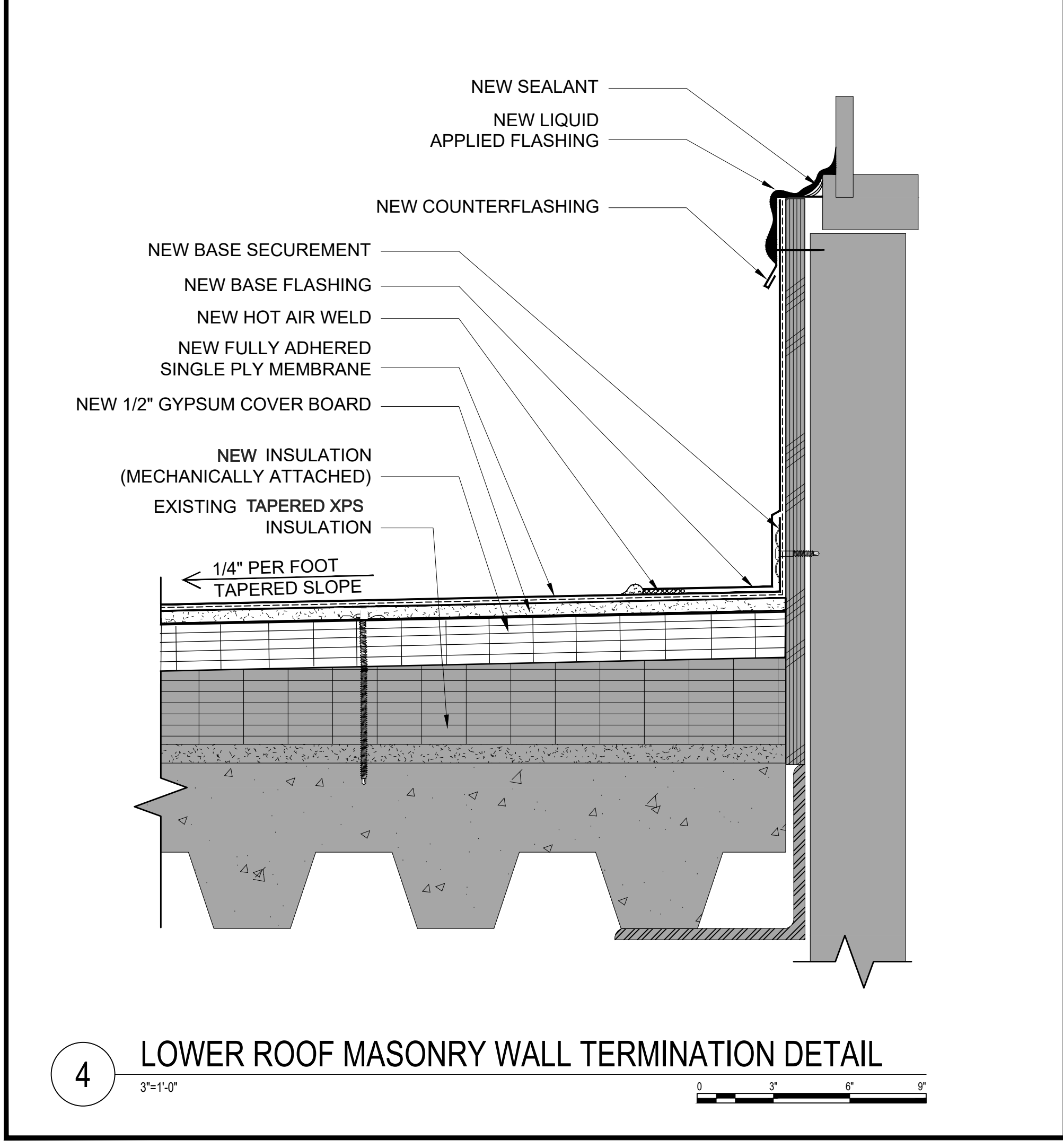
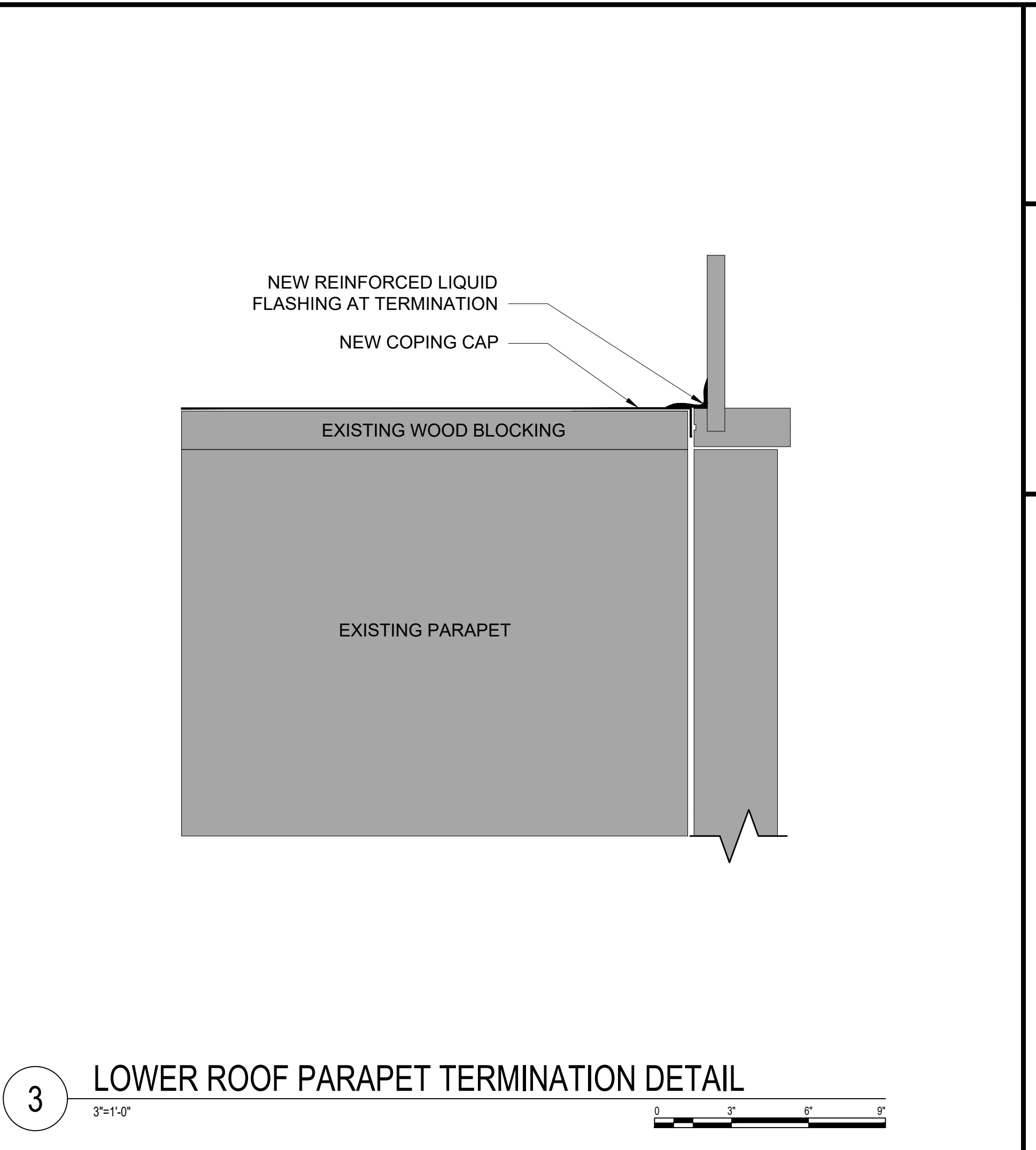
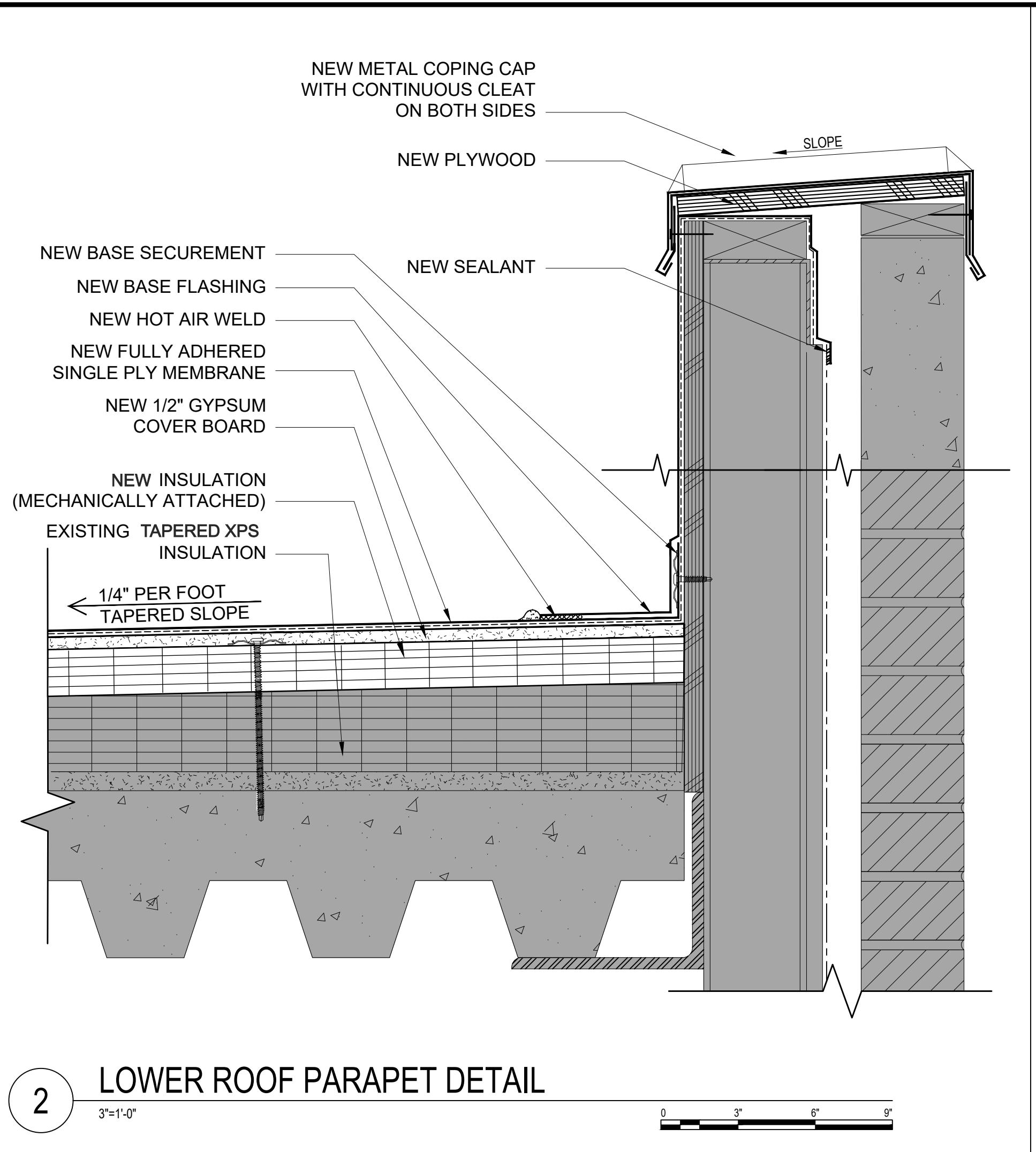
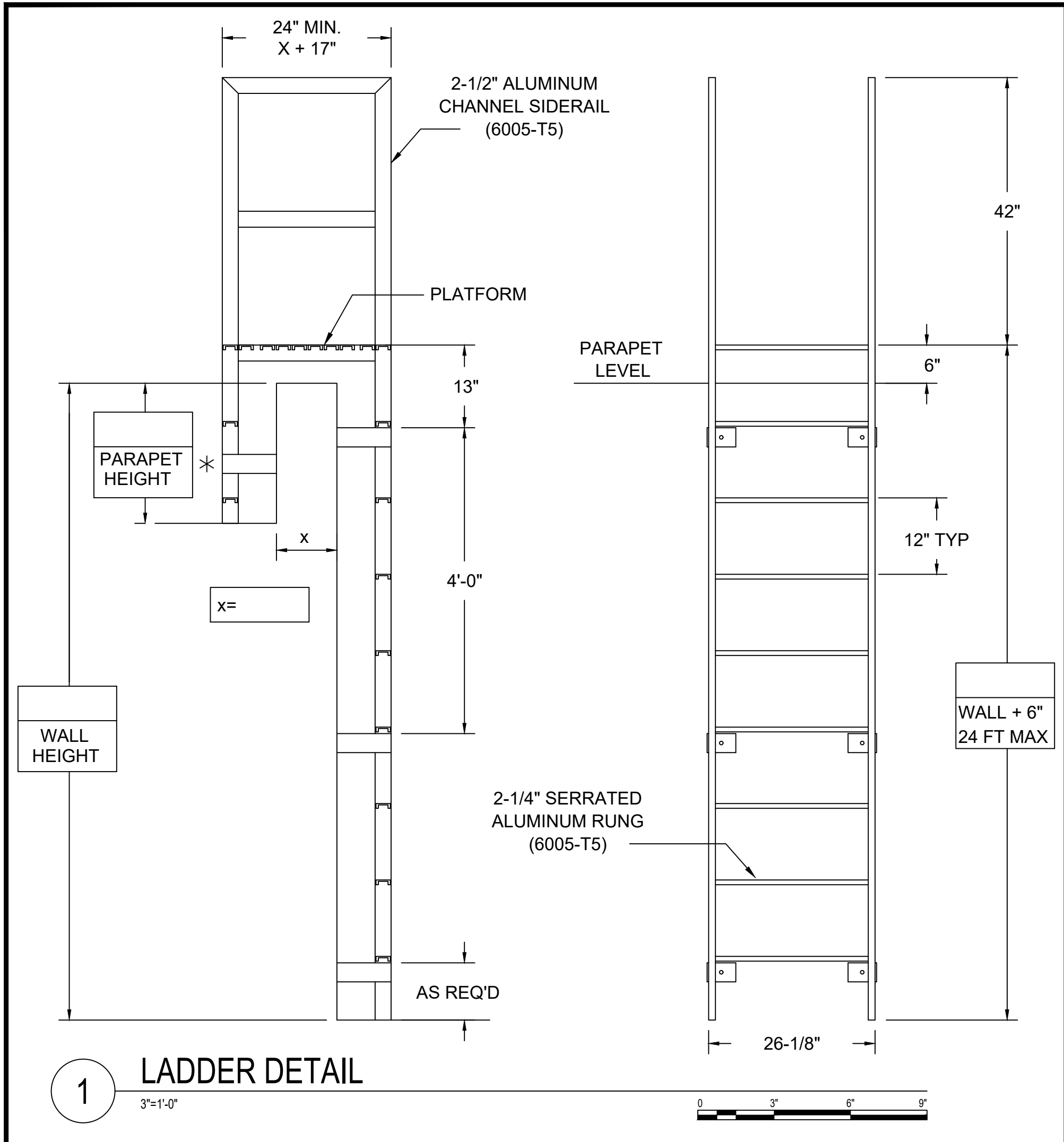
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DESIGNED BY: NEA

DRAWN BY: SWP

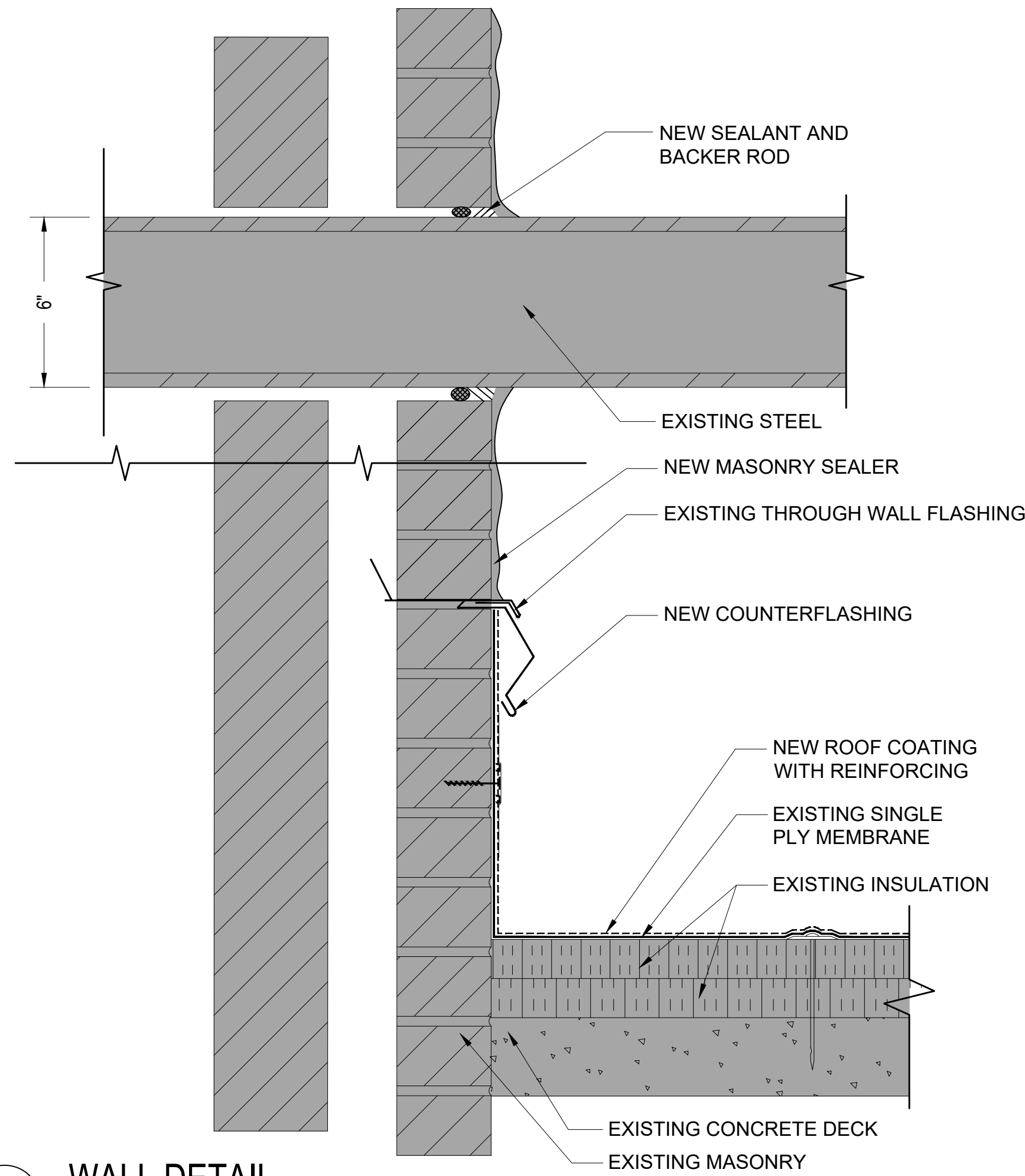
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NOT FOR CONSTRUCTION
 - DESIGN DEVELOPMENT DOCUMENTS
NOT FOR CONSTRUCTION
 - PERMITTING / BIDDING
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

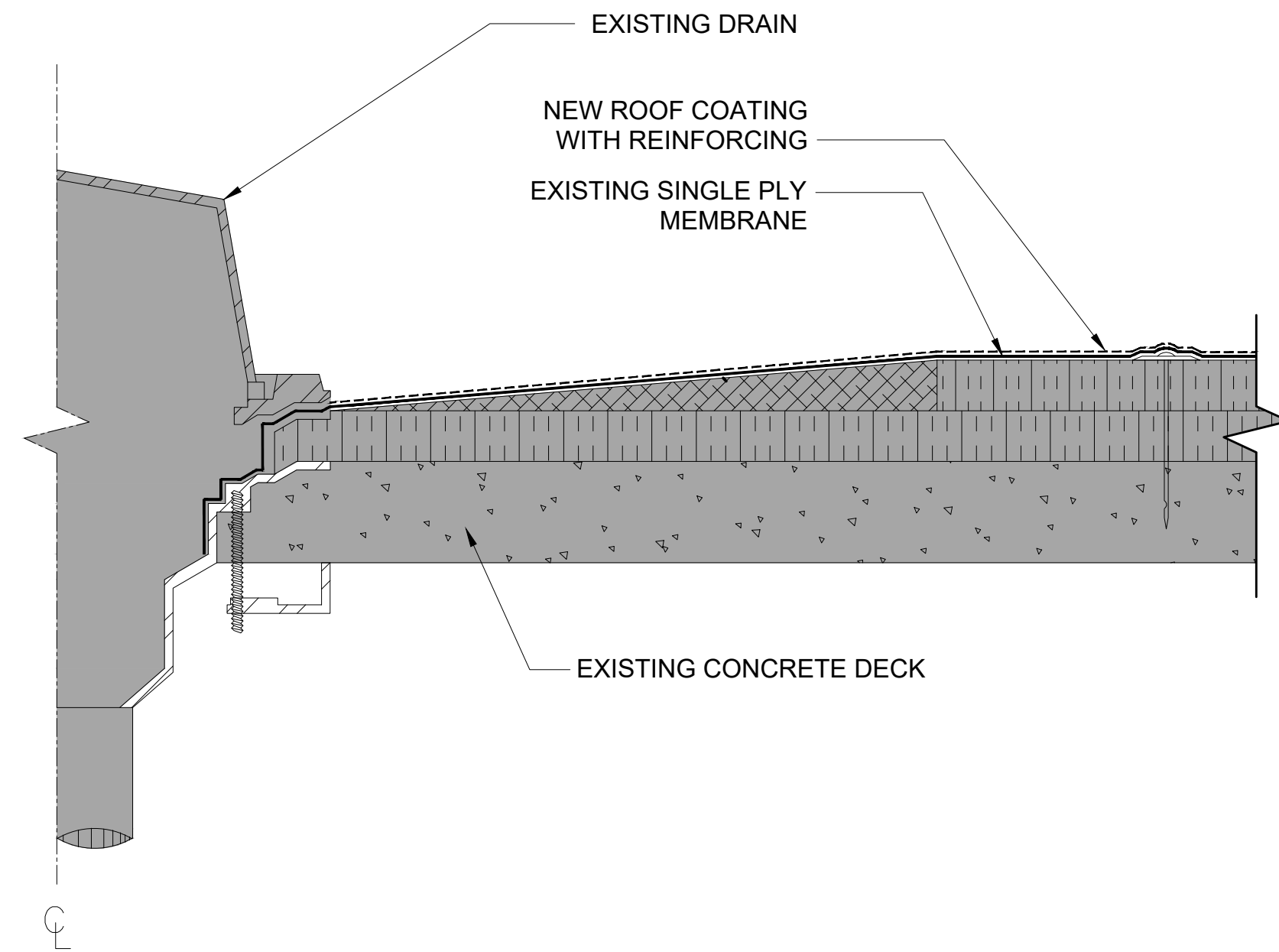
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12-8-2022

SHEET NUMBER

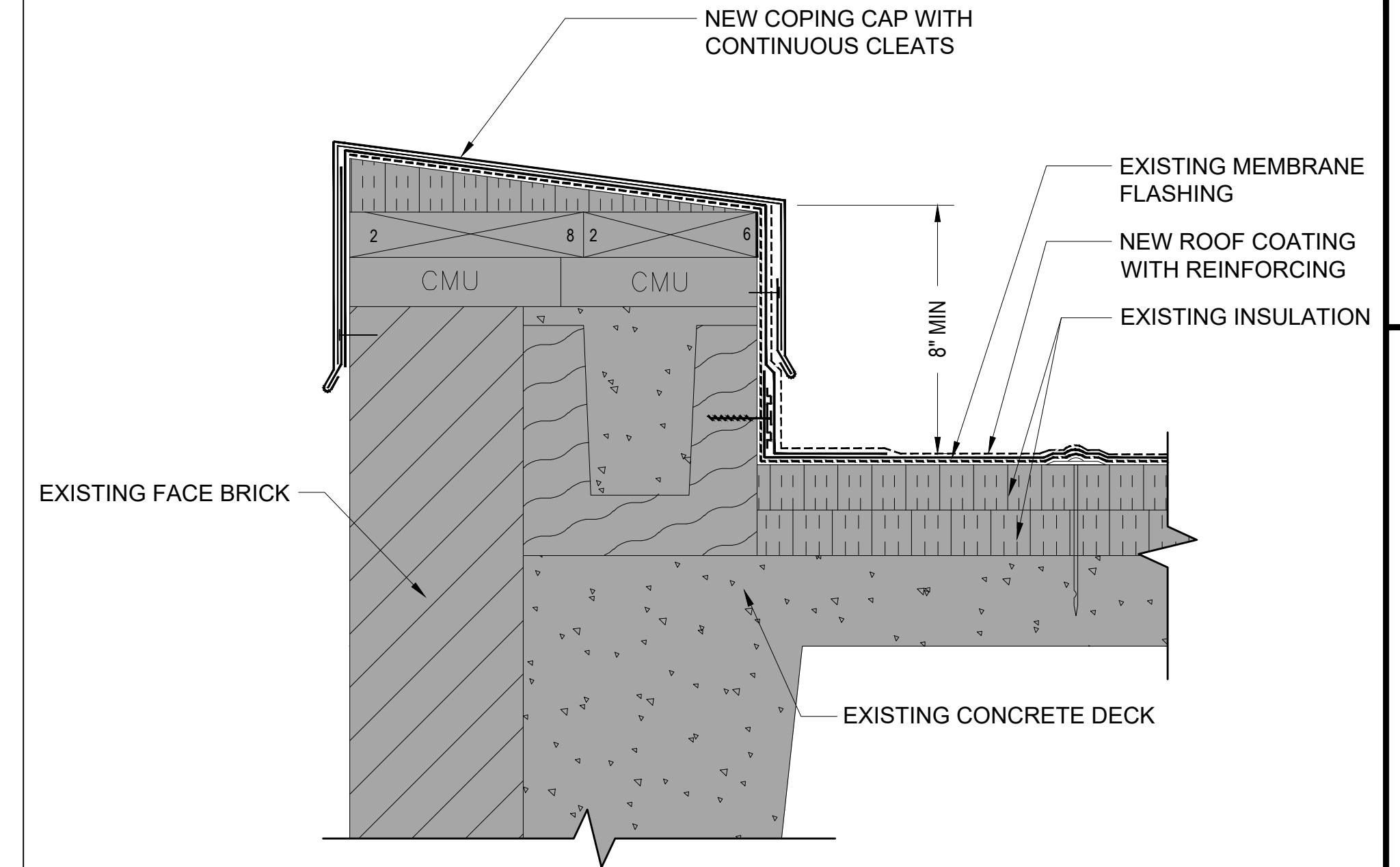
A-302



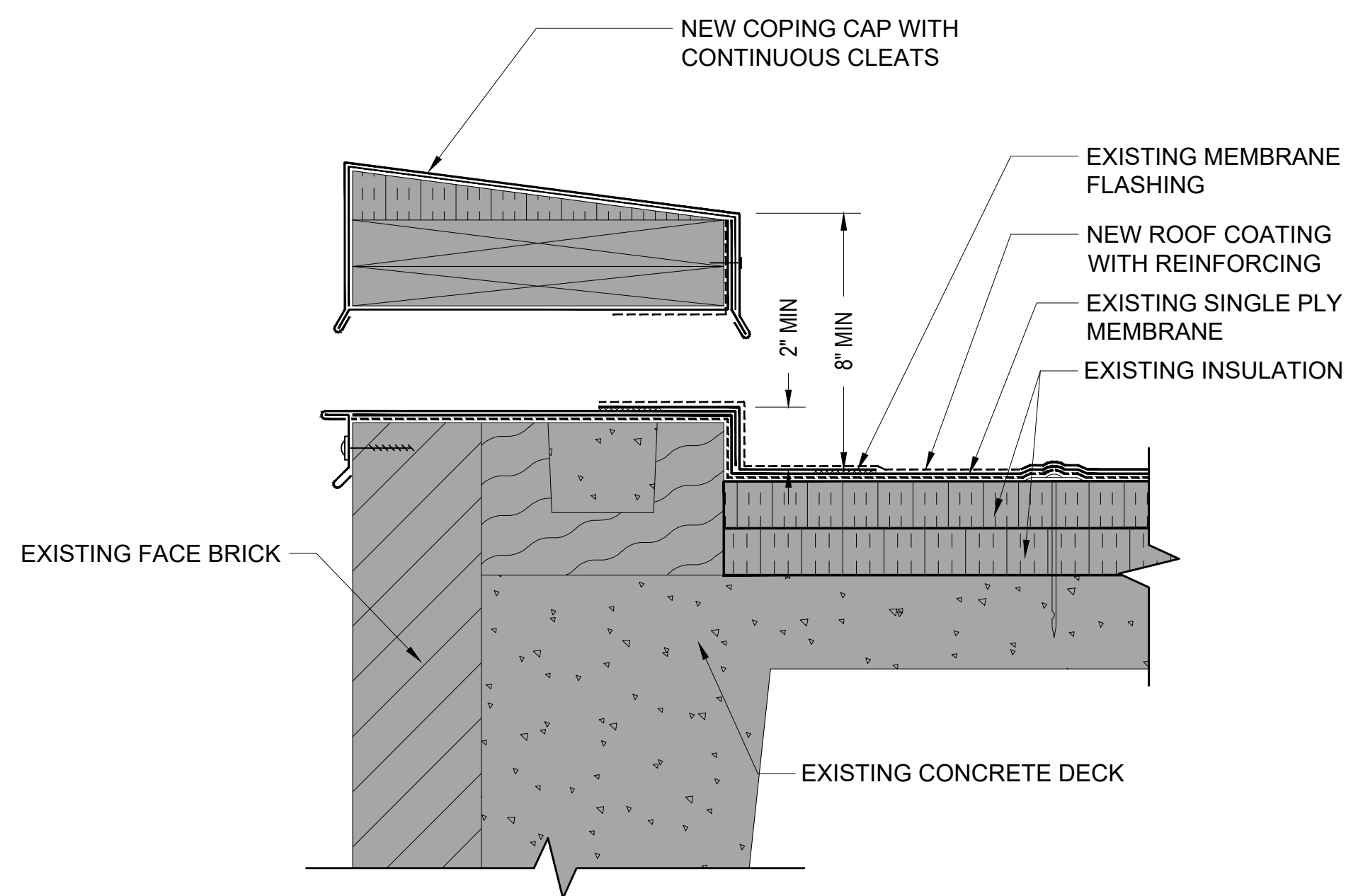
1 WALL DETAIL
 3"=1'-0"



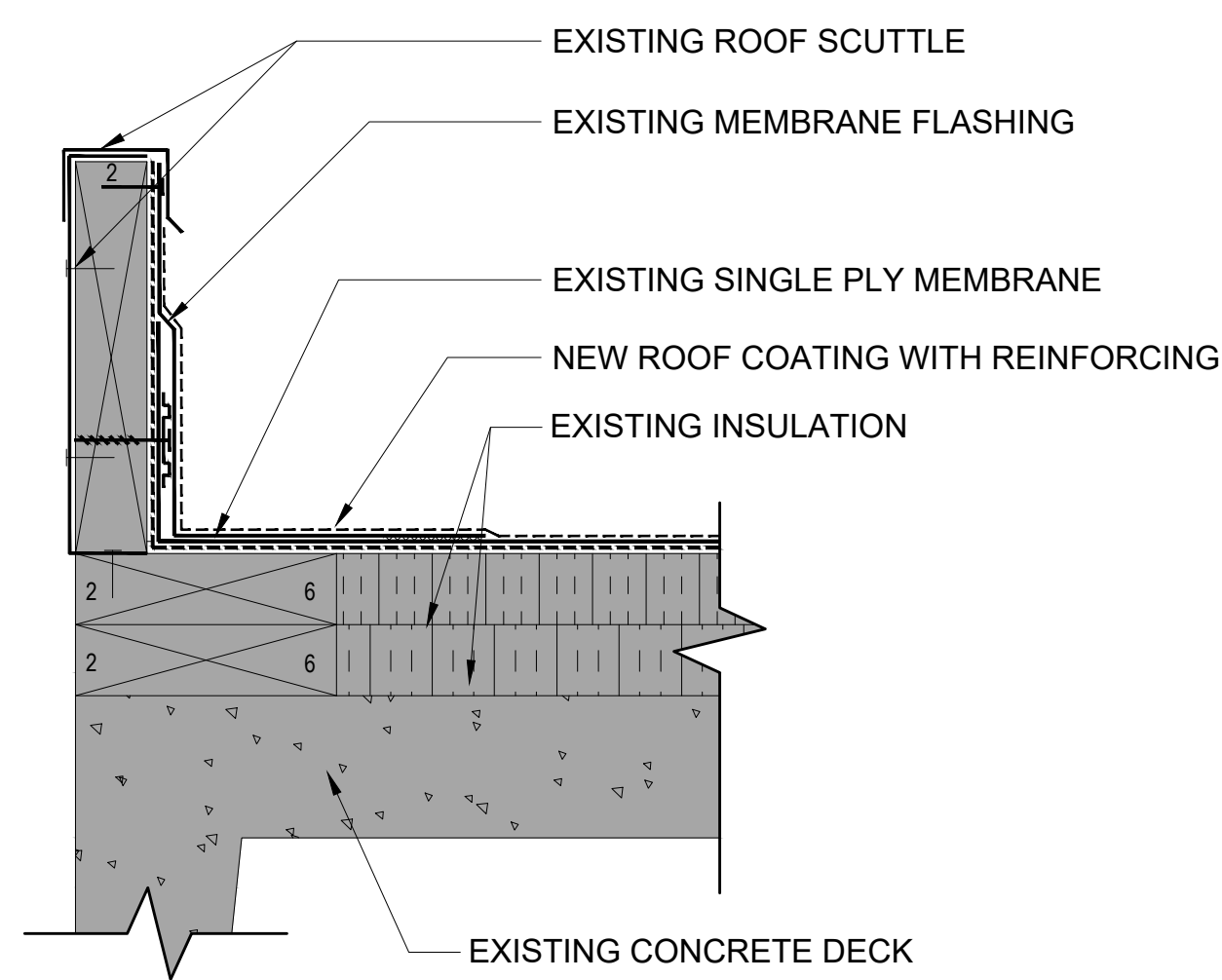
2 ROOF DRAIN DETAIL
 3"=1'-0"



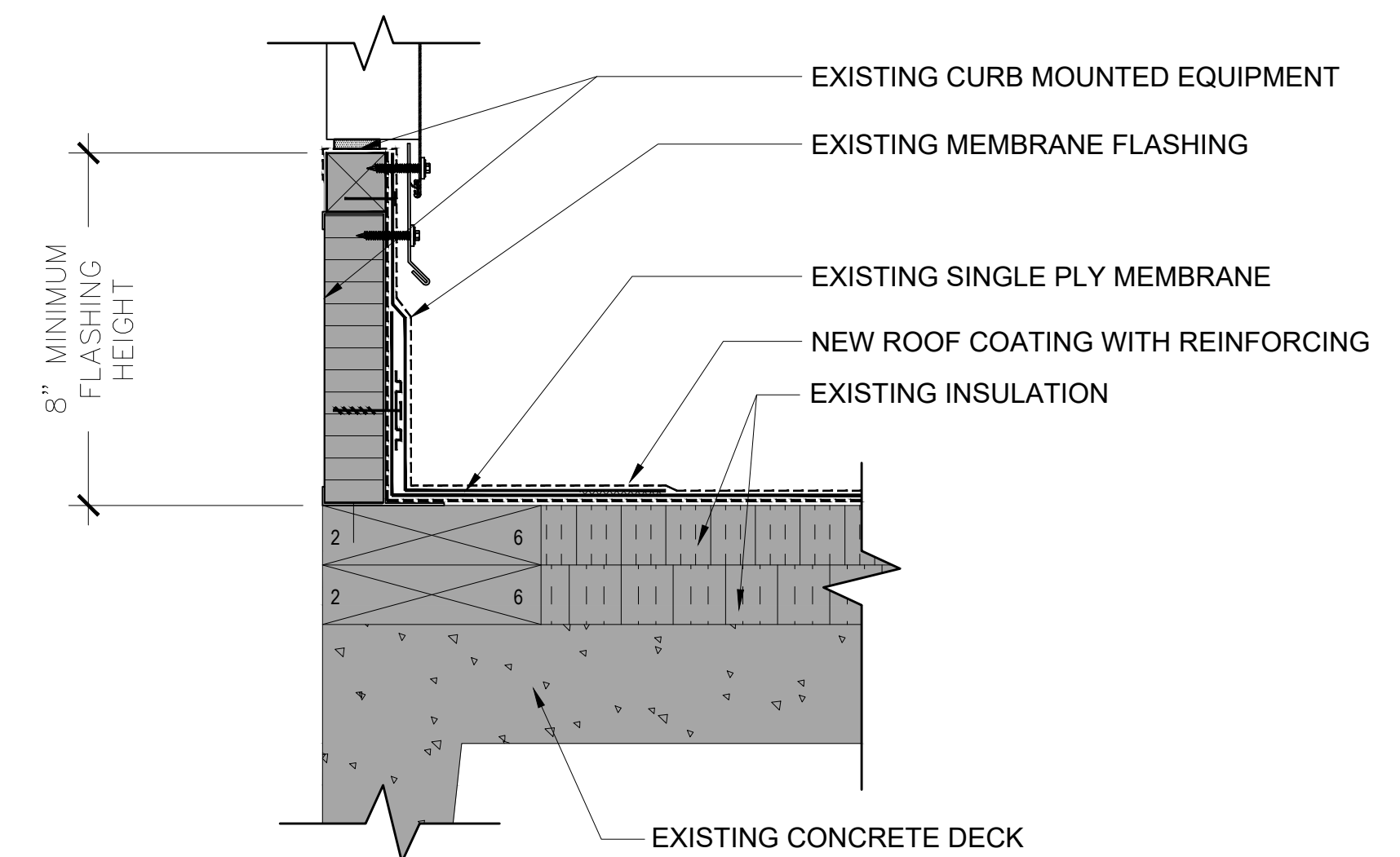
3 PARAPET DETAIL
 3"=1'-0"



4 SCUPPER DETAIL
 3"=1'-0"



5 ROOF SCUTTLE DETAIL
 3"=1'-0"



6 CURB MOUNTED EQUIPMENT DETAIL
 3"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
 FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: LTH

ISSUE FOR:

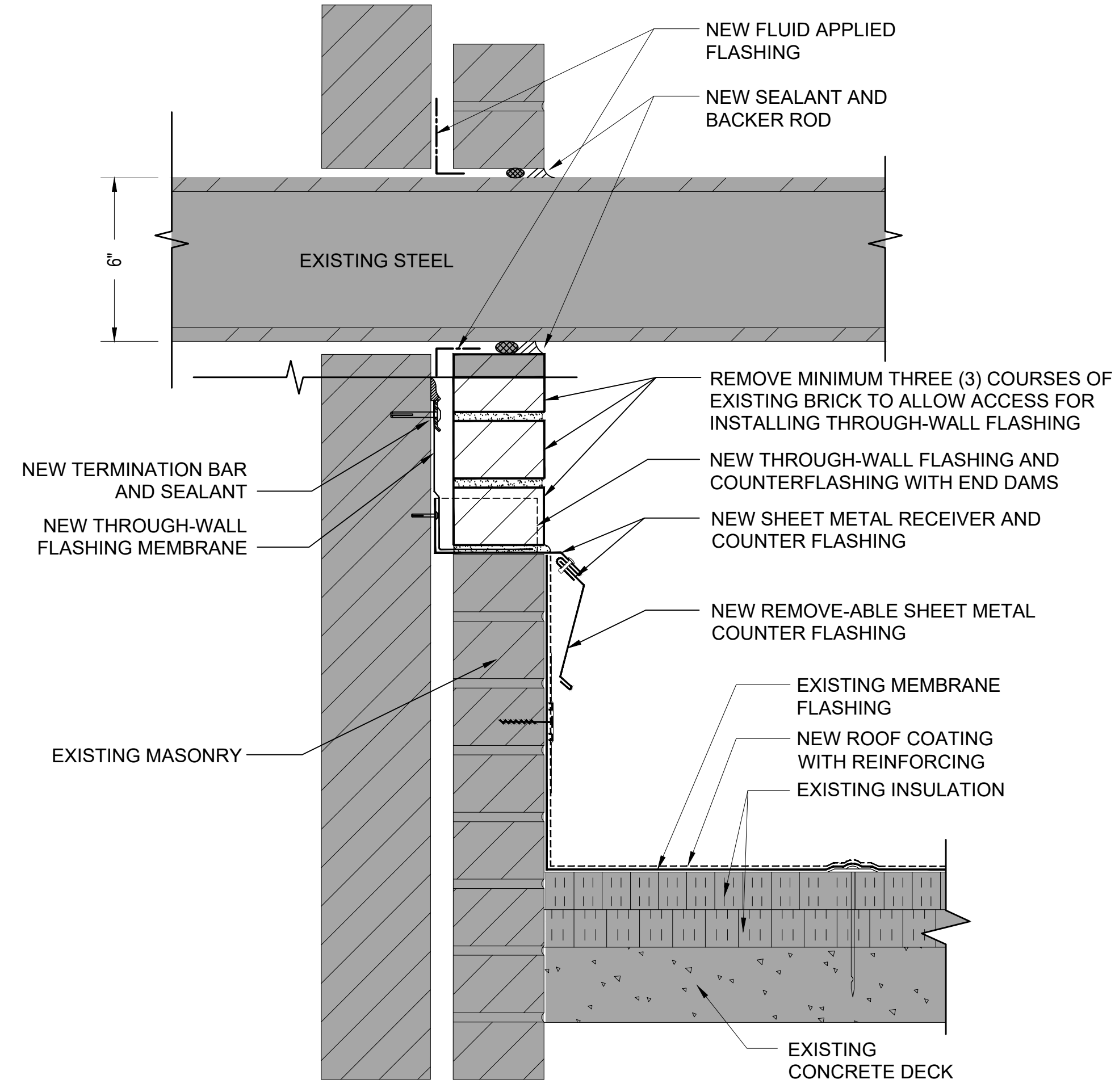
- REVIEW / PRICING DOCUMENTS
NOT FOR CONSTRUCTION
- SURVEY REPORT - REPAIR DOCUMENTS
- SCHEMATIC DESIGN DOCUMENTS
NOT FOR CONSTRUCTION
- DESIGN DEVELOPMENT DOCUMENTS
NOT FOR CONSTRUCTION
- PERMITTING / BIDDING
- CONSTRUCTION DOCUMENTS
- ADDENDUM SUBMITTAL
- RECORD DRAWINGS

ISSUE DATE:

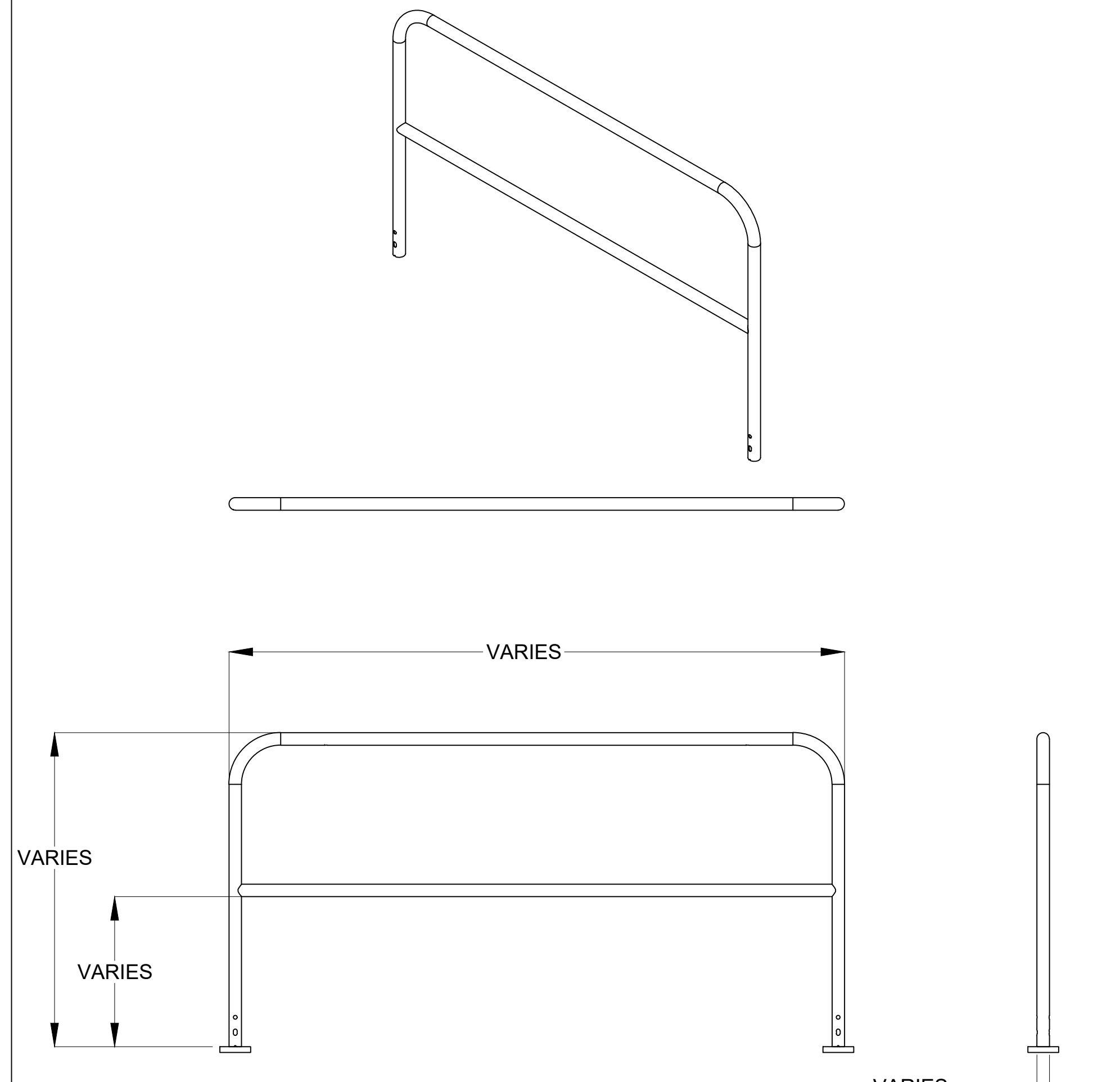
12-8-2022

SHEET NUMBER

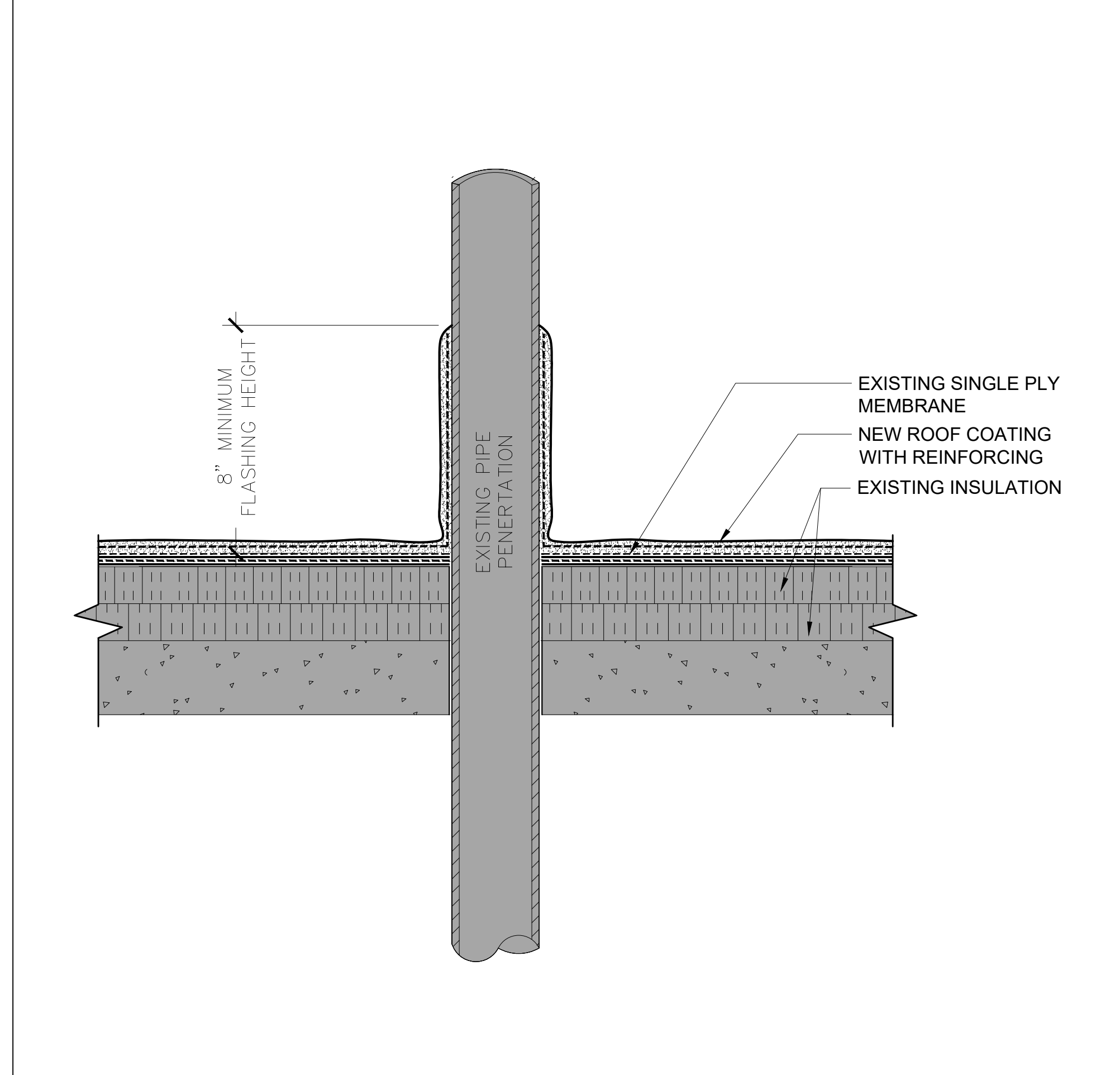
A-401



1 THROUGH-WALL FLASHING REPLACEMENT
3"=1'-0"



2 BALLASTED GUARDRAIL SYSTEM
3"=1'-0"



3 PIPE PENETRATION DETAIL
3"=1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: LTH

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS
NOT FOR CONSTRUCTION
 - SURVEY REPORT - REPAIR DOCUMENTS
 - SCHEMATIC DESIGN DOCUMENTS
NOT FOR CONSTRUCTION
 - DESIGN DEVELOPMENT DOCUMENTS
NOT FOR CONSTRUCTION
 - PERMITTING / BIDDING
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

ISSUE DATE:
12-8-2022

SHEET NUMBER

A-402

LEGEND	
	PARAPET
	WALK PAD
	VENTILATOR
	OVERFLOW SCUPPER
	ROOF SCUTTLE
	ROOF DRAIN AND SUMP
	OVERFLOW ROOF DRAIN
	PLUMBING VENT STACK
	LADDER
	BEAM WRAP ROOF ANCHOR
	METAL DECK MOUNT ROOF ANCHOR

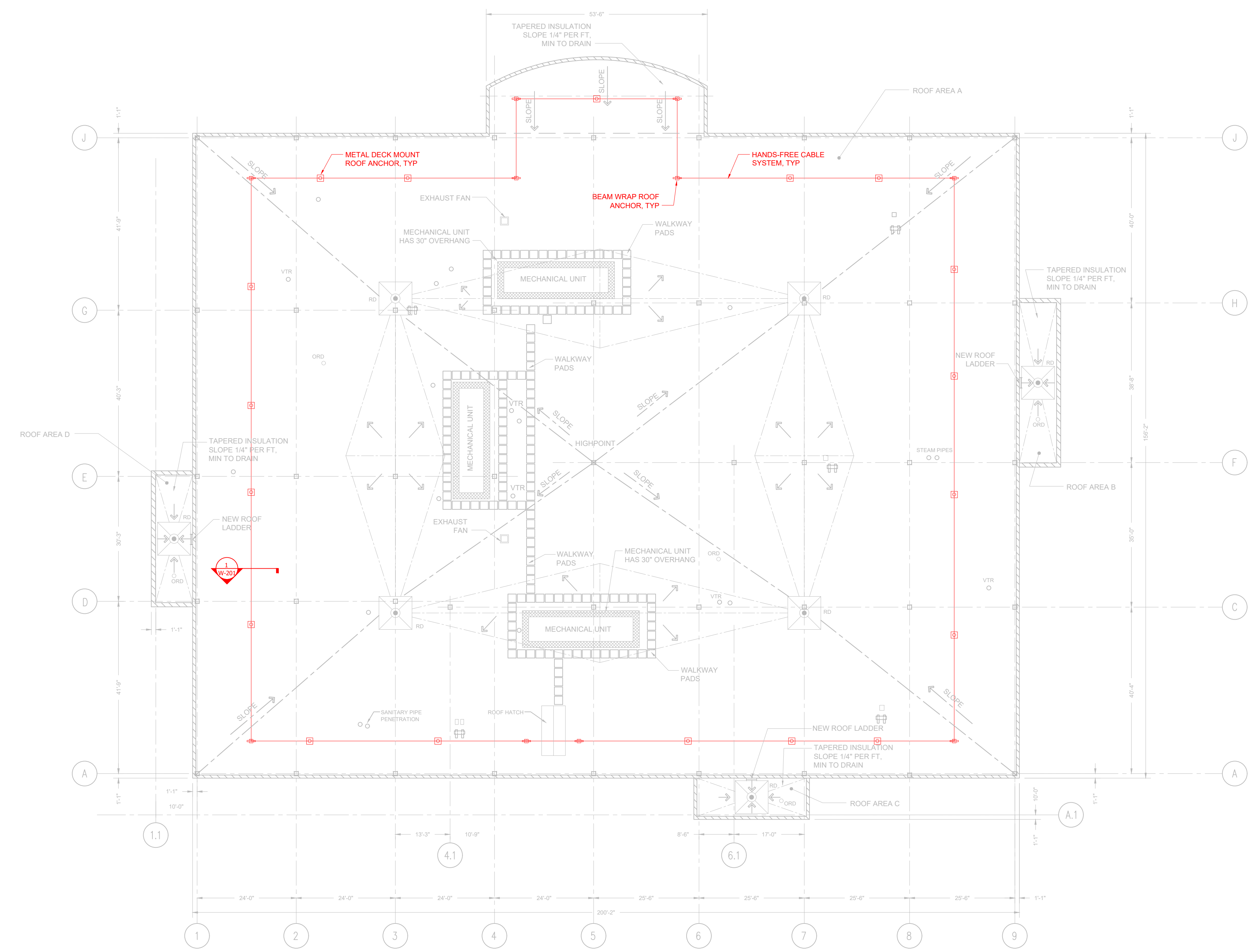
terracon

2701 Westport Road
CHARLOTTE, NC 28208
PH. (704) 509-1777 | TERRACON.COM
TERRACON NC LICENSE NO. F-0869

ENGINEER STATE LICENSE SEAL

REUSE & FRIDAY ROOFS
UNC AT CHARLOTTE
9209 MARY ALEXANDER ROAD
CHARLOTTE, NC 28262

FRIDAY BUILDING ANCHOR LAYOUT PLAN



1 FRIDAY BUILDING ANCHOR LAYOUT PLAN
1/16" = 1'-0"

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: LTH

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS
NOT FOR CONSTRUCTION
 - SURVEY REPORT - REPAIR DOCUMENTS
 - SCHEMATIC DESIGN DOCUMENTS
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 - RECORD DRAWINGS

ISSUE DATE:
12-8-2022

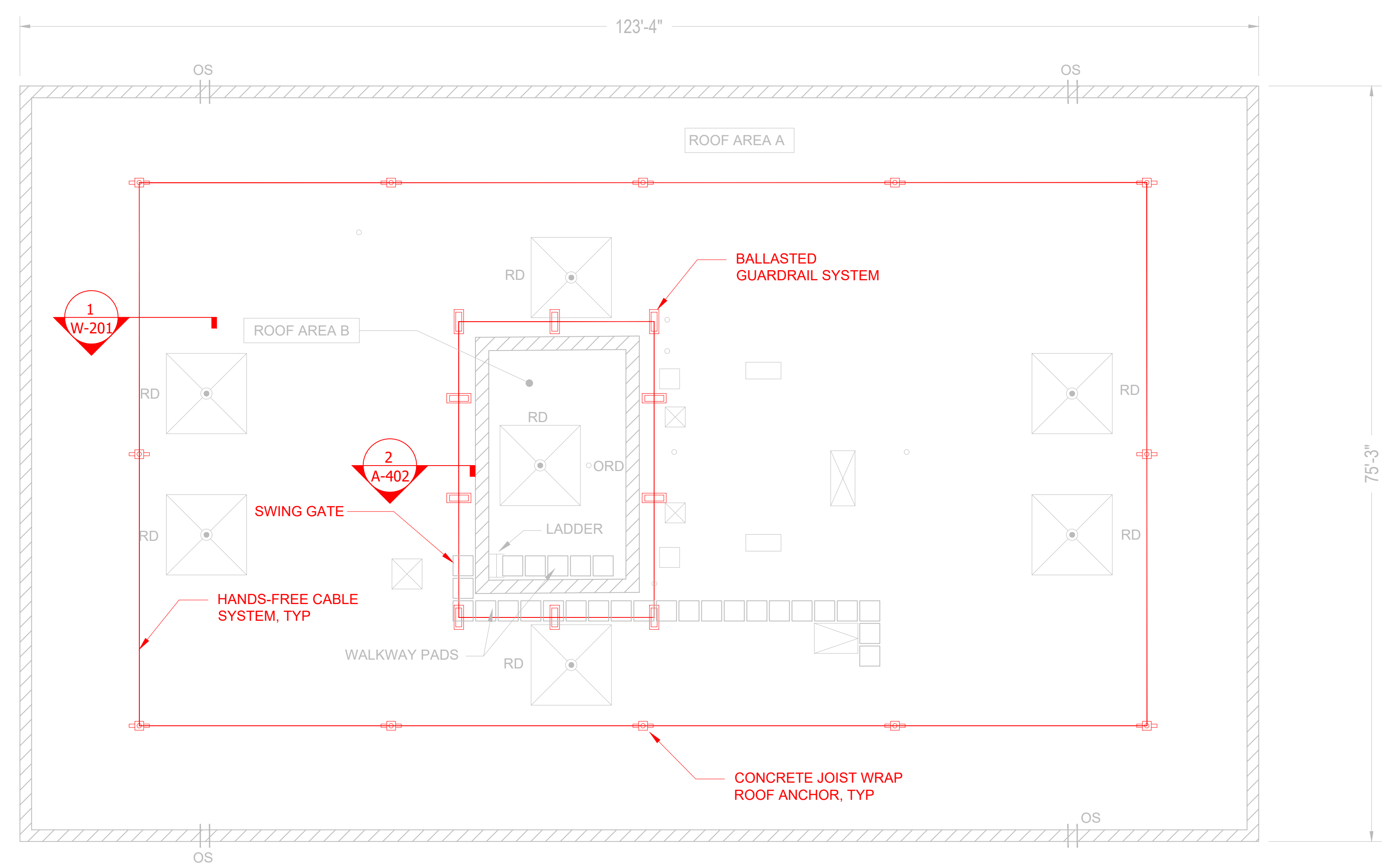
SHEET NUMBER
W-101

LEGEND	
	PARAPET
	WALK PAD
	VENTILATOR
	OVERFLOW SCUPPER
	ROOF SCUTTLE
	ROOF DRAIN AND SUMP
	OVERFLOW ROOF DRAIN
	CONCRETE JOIST WRAP ROOF ANCHOR
	BALLASTED GUARDRAIL SYSTEM

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 TERRACON NC LICENSE NO. F-0869

ENGINEER STATE LICENSE SEAL

REESE & FRIDAY ROOFS
UNC AT CHARLOTTE
 9035 UNIVERSITY ROAD
 CHARLOTTE, NC 28223
 REESE BUILDING ANCHOR LAYOUT PLAN



1 REESE BUILDING ANCHOR LAYOUT PLAN
 1/8" = 1'-0"

REVISIONS:		
NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
 FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

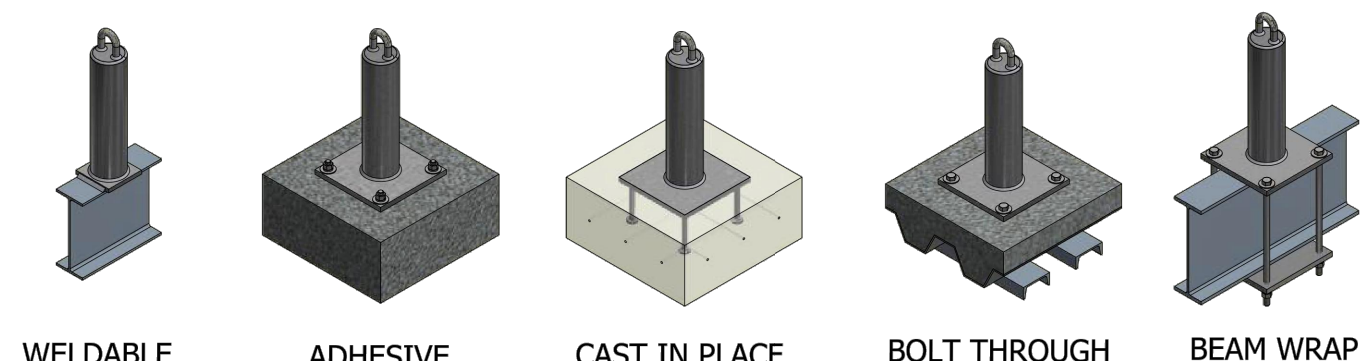
APPROVED BY: LTH

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS
NOT FOR CONSTRUCTION
 - SURVEY REPORT - REPAIR DOCUMENTS
 - SCHEMATIC DESIGN DOCUMENTS
NOT FOR CONSTRUCTION
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NOT FOR CONSTRUCTION
 - PERMITTING / BIDDING
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

ISSUE DATE:
 12-8-2022

SHEET NUMBER
W-102

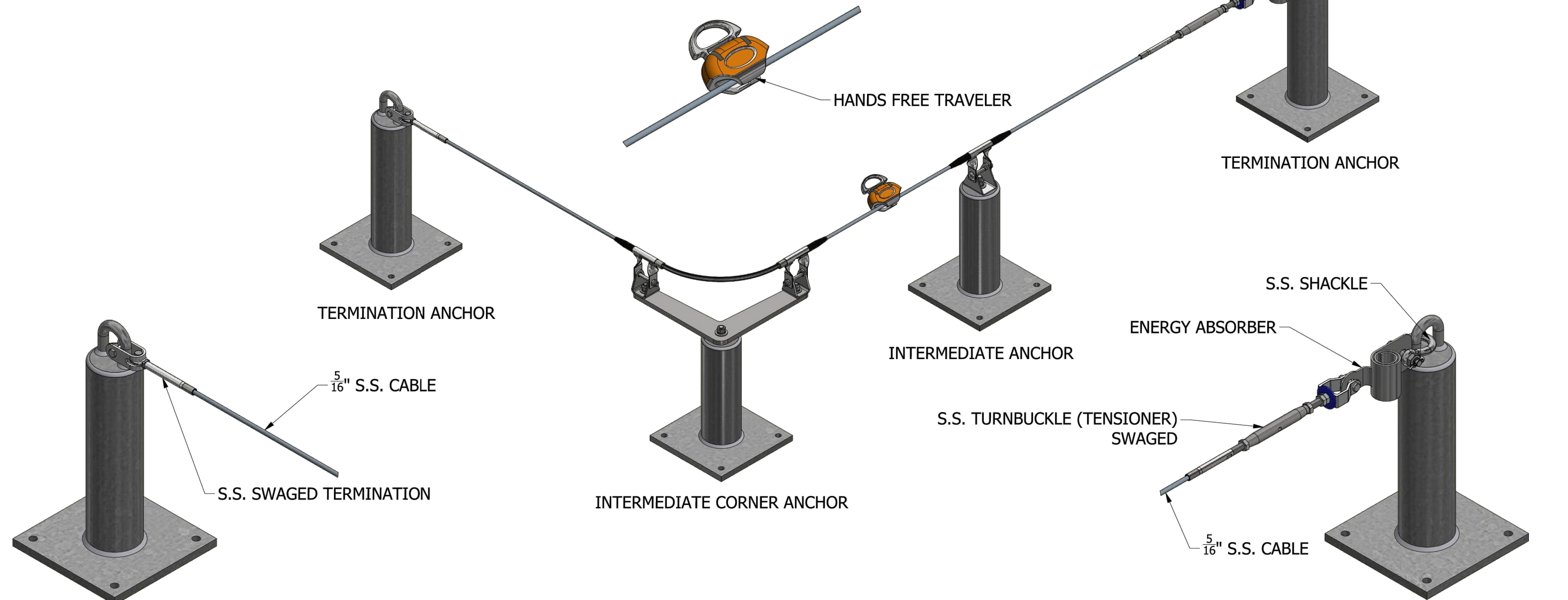
TYPICAL ANCHOR ATTACHMENT - TO SUIT EXISTING STRUCTURE



NOTE: ANCHORS ARE DESIGNED TO RESIST A 5,000 LBS ULTIMATE LOAD.

WARNING: FAILURE TO COMPLY WITH MANUFACTURER'S INSTALLATION PROCEDURES MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. ONLY QUALIFIED PERSONS SUPERVISED BY THESE INSTALLATION METHODS SHALL INSTALL PEAK FALL PROTECTION'S EQUIPMENT. IF METHOD OF INSTALLATION IS NOT UNDERSTOOD, DO NOT ATTEMPT TO INSTALL THIS EQUIPMENT.

WARNING: ALL PEAK FALL PROTECTION'S FALL ARREST EQUIPMENT SHALL BE USED AS PART OF A COMPLETE FALL ARREST SYSTEM DESIGNED IN ACCORDANCE WITH ALL OSHA, ANSI, AND OTHER EQUIVALENT SAFETY STANDARDS. USER SHALL INSPECT ALL EQUIPMENT PRIOR TO EACH USE, INCLUDING ALL ATTACHMENT POINTS, LOCKS, AND PINS TO ENSURE ALL EQUIPMENT IS IN GOOD WORKING ORDER. ALL USERS SHALL BE PROPERLY TRAINED TO USE THE EQUIPMENT SAFELY AND PROPERLY TRAINED IN ALL OSHA, ANSI, AND OTHER SAFETY REGULATIONS WHEN USING THESE SYSTEMS. IF METHOD OF USE IS NOT UNDERSTOOD, DO NOT ATTEMPT TO USE THE EQUIPMENT. IMPROPER USE OF EQUIPMENT MAY RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. ALL EQUIPMENT SHALL BE ANNUALLY INSPECTED BY A QUALIFIED PERSON AND RE-CERTIFIED AT PERIODS NOT TO EXCEED 10 YEARS UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.

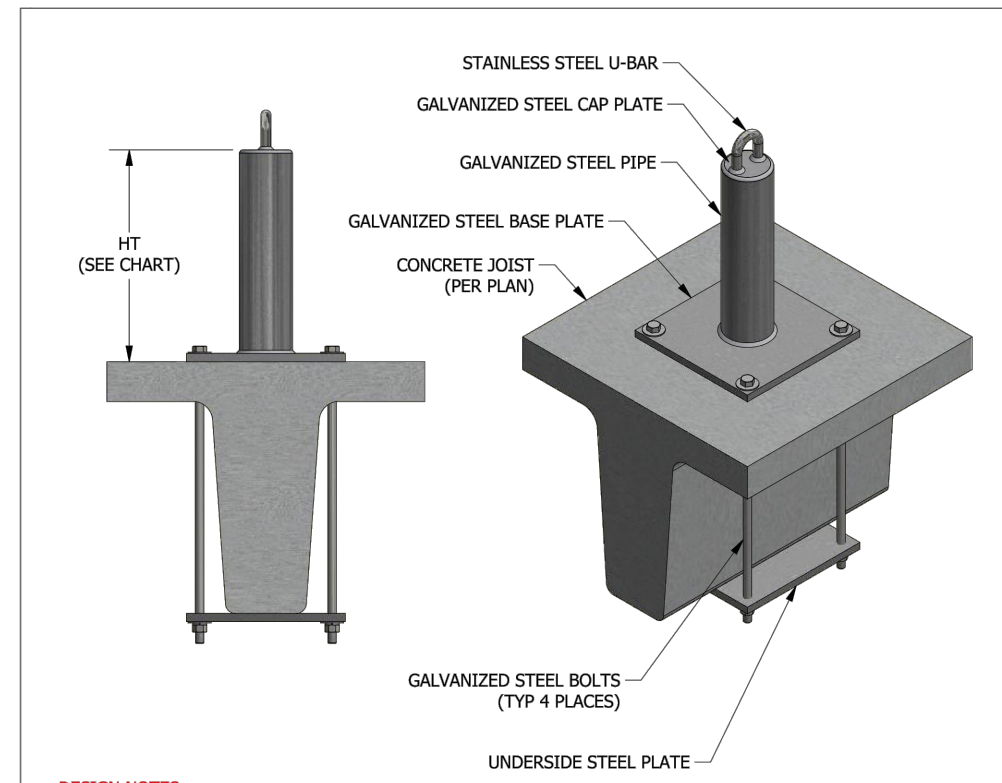


SERIES NAME: HANDS-FREE HORIZONTAL LIFELINE - SWAGED
SERIES NUMBER: HLL-1000
Rated Load: 2,500 lbs
Fracture Load: 5,000 lbs

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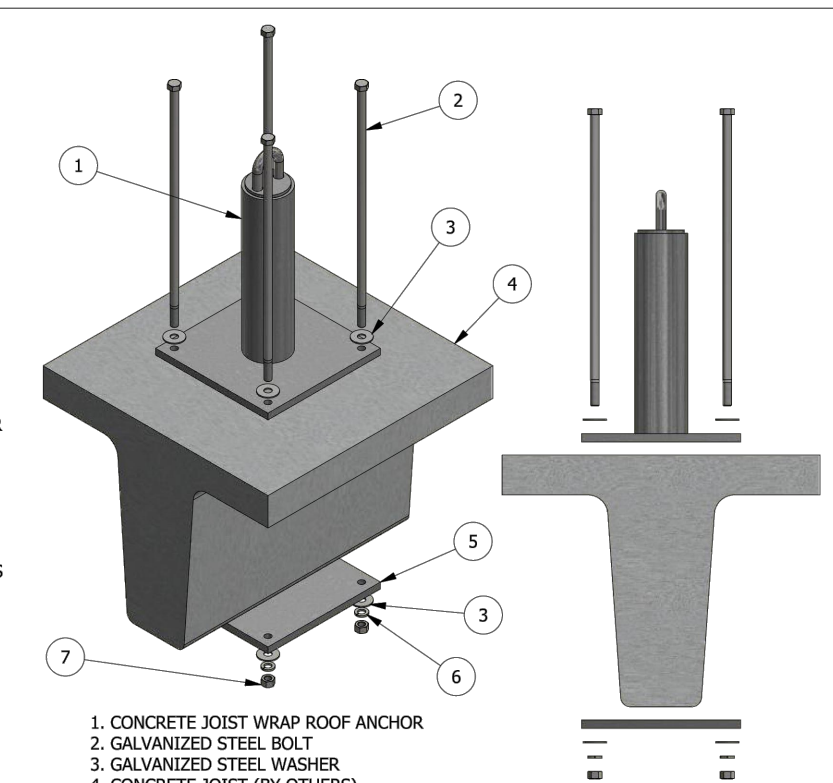


- INSTALLATION NOTES:**
- THE FOLLOWING INSTRUCTIONS SHALL BE FOLLOWED TO ENSURE PROPER INSTALLATION OF ANCHOR. SOME INSTALLATIONS MAY REQUIRE ADDITIONAL REQUIREMENTS DEPENDING ON THE INDIVIDUAL PROJECT. THE INSTALLATION CONTRACTOR ("CONTRACTOR") IS ULTIMATELY RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED FOR INSTALLATION OF PEAK FALL PROTECTION PRODUCTS. ALL ROOFING AND FLASHING SYSTEMS REQUIRED TO MAINTAIN WATER-TIGHT STRUCTURE IS BY OTHERS.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. CONTRACTOR SHALL COORDINATE EACH INDIVIDUAL ANCHOR LOCATION WITH ANCHOR LAYOUT DRAWING AND MARK LOCATION. ANY ANCHOR LOCATIONS CONFLICTING WITH MECHANICAL UNITS, DOORWAY, ETC. SHALL BE NOTED AND NEW LOCATION VERIFIED.
 - CONTRACTOR SHALL VERIFY UNDERSIDE OF FRAMING STRUCTURE FOR MECHANICAL, ELECTRICAL, OR OTHER OBSTACLES THAT WOULD HINDER PROPER INSTALLATION OF THE ANCHOR PRIOR TO OPENING HOLE IN ROOF SURFACE (OR OTHER CONNECTING SURFACE) ON ALL INSTALLATIONS REQUIRING UNDERSIDE ACCESS. ANY ANCHOR LOCATIONS CONFLICTING WITH UNDERSIDE OBSTRUCTIONS SHALL BE NOTED AND NEW LOCATION VERIFIED.
 - CONTRACTOR SHALL CUT OPEN ROOFING MEMBRANE AND ROOF DECKING MEMBRANE TO FACILITATE INSTALLATION ONLY AFTER PROPER VERIFICATION IS CONCLUDED.
 - CONTRACTOR SHALL CLEAN/SMOOTH SURFACE OF MOUNTING STRUCTURE TO ENSURE FLUSH AND LEVEL FIT OF ANCHOR TO BUILDING STRUCTURE.
 - CONTRACTOR SHALL INSERT BOLT AND WASHER IN THE CORRESPONDING BOLT HOLES FROM THE TOP SIDE OF THE BEAM.
 - CONTRACTOR SHALL ALIGN UNDERSIDE STEEL PLATE WITH THE BOLTS FROM ABOVE. CONTRACTOR SHALL MAKE PROVISION TO INSURE FLUSH CONTACT BETWEEN THE UNDERSIDE STEEL SUPPORT PLATE AND EXISTING FRAMING STRUCTURE.
 - CONTRACTOR SHALL FASTEN UNDERSIDE STEEL SUPPORT PLATE TO THE BOLTS WITH (1) LOCK WASHER, (1) FLAT WASHER AND (1) NUT PER BOLT. CONTRACTOR SHALL TORQUE NUTS TO SNUG TIGHT.
 - ALL ANCHORAGE BOLTS SHALL HAVE A MINIMUM OF TWO THREADS EXPOSED WHEN NUTS HAVE BEEN TIGHTENED AND THE EXPOSED THREADS (MIN. OF (2) THREADS) SHALL BE DEFORMED TO PREVENT TAMPERING.
 - ALL NECESSARY ANCHOR INSPECTIONS/TESTING SHALL BE DONE PRIOR TO REPLACEMENT OF ROOFING MEMBRANE.
 - CONTRACTOR SHALL MARK FINAL ANCHOR LOCATION ON AS-BUILT DRAWINGS AND RETURN AS-BUILT DRAWING TO PEAK FALL PROTECTION.
 - CONTRACTOR SHALL PERFORM ANY POST ANCHOR INSTALLATION INSPECTION AND TESTING AND FILL OUT PROPER FORMS FOR RETURN TO PEAK FALL PROTECTION.

GENERAL MATERIAL SPECIFICATION:
STEEL PIPE: ASTM A53 (35 ksi)
PLATE STEEL: ASTM A36 (36 ksi)
STAINLESS STEEL: TYPE 304 (30 ksi)

Series Name: Concrete Joist Wrap Roof Anchor
Series Number: RA-4700-CJ
Rated Load: 1,250 lbs
Fracture Load: 5,000 lbs
Date: 1-21-16

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- CONCRETE JOIST WRAP ROOF ANCHOR**
- CONCRETE JOIST WRAP ROOF ANCHOR
 - GALVANIZED STEEL BOLT
 - GALVANIZED STEEL WASHER
 - CONCRETE JOIST (BY OTHERS)
 - UNDERSIDE STEEL PLATE
 - GALVANIZED STEEL LOCK WASHER
 - GALVANIZED STEEL NUT

MODEL NUMBER	ANCHOR HT (IN)	PIPE O.D. (IN)	HOLE SPACING (IN)			SHEAR	AXIAL	MOMENT*
			HT	HT	HT			
RA-4708	8"	4.0"	8"x8"	1,250 lbs	1,250 lbs	835 ft-lbs		
RA-4710	10"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,045 ft-lbs		
RA-4712	12"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,250 ft-lbs		
RA-4714	14"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,460 ft-lbs		
RA-4716	16"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,670 ft-lbs		
RA-4718	18"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,875 ft-lbs		
RA-4720	20"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,085 ft-lbs		
RA-4722	22"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,295 ft-lbs		
RA-4724	24"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,500 ft-lbs		

*Engineering of Relative to verify existing framing structure's ability to resist loads transferred to structure and to ensure 4:1 safety factor against fracture or deformation. *Moment value based on range of installation angles shown. Will increase the distance from top flange to center of gravity of beam for calculation of loading moment of torsional moment.

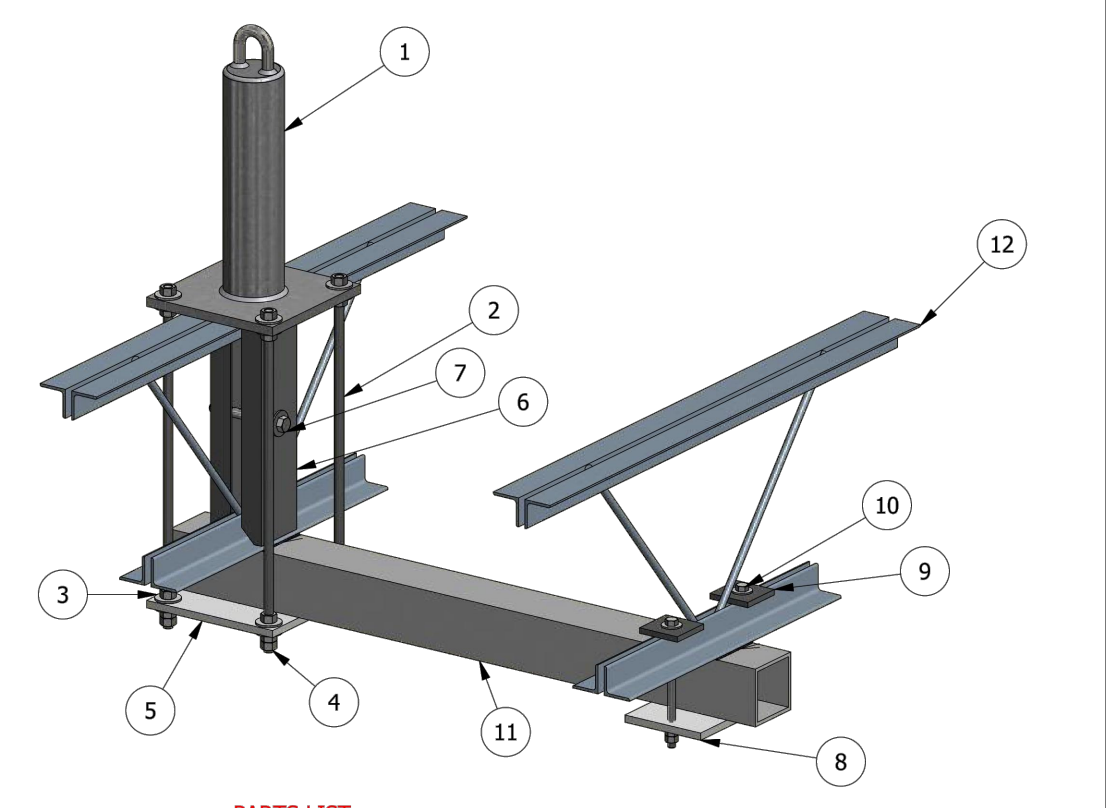


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INSTALLATION NOTES:

- THE FOLLOWING INSTRUCTIONS SHALL BE FOLLOWED TO ENSURE PROPER INSTALLATION OF ANCHOR. SOME INSTALLATIONS MAY REQUIRE ADDITIONAL REQUIREMENTS DEPENDING ON THE INDIVIDUAL PROJECT. THE INSTALLATION CONTRACTOR ("CONTRACTOR") IS ULTIMATELY RESPONSIBLE FOR ALL MEANS AND METHODS REQUIRED FOR INSTALLATION OF PEAK FALL PROTECTION'S PRODUCTS. ALL ROOFING AND FLASHING SYSTEMS REQUIRED TO MAINTAIN WATER-TIGHT STRUCTURE IS BY OTHERS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. CONTRACTOR SHALL COORDINATE EACH INDIVIDUAL ANCHOR LOCATION WITH ANCHOR LAYOUT DRAWING AND MARK LOCATION. ANY ANCHOR LOCATIONS CONFLICTING WITH MECHANICAL UNITS, DOORWAY OR OTHER OBSTACLE SHALL BE NOTED AND NEW LOCATION VERIFIED.
- CONTRACTOR SHALL VERIFY UNDERSIDE OF FRAMING STRUCTURE FOR MECHANICAL, ELECTRICAL, OR OTHER OBSTACLES THAT WOULD HINDER PROPER INSTALLATION OF THE ANCHOR PRIOR TO OPENING HOLE IN ROOF SURFACE (OR OTHER CONNECTING SURFACE) ON ALL INSTALLATIONS REQUIRING UNDERSIDE ACCESS. ANY ANCHOR LOCATIONS CONFLICTING WITH UNDERSIDE OBSTRUCTIONS SHALL BE NOTED AND NEW LOCATION VERIFIED.
- CONTRACTOR SHALL CUT OPEN ROOFING MEMBRANE AND ROOF DECKING MEMBRANE TO FACILITATE INSTALLATION ONLY AFTER PROPER VERIFICATION IS CONCLUDED.
- CONTRACTOR SHALL CLEAN/SMOOTH SURFACE OF MOUNTING STRUCTURE TO ENSURE FLUSH AND LEVEL FIT OF ANCHOR TO BUILDING STRUCTURE.

- CONTRACTOR SHALL INSERT STEEL BOLT AND WASHER IN THE CORRESPONDING BOLT HOLES FROM THE TOP SIDE OF THE JOIST. CONTRACTOR SHALL INSTALL FLAT WASHER AND HEX NUT TO BOTTOM SIDE OF ANCHOR BASE PLATE AND TIGHTEN. CONTRACTOR SHALL THEN INSTALL HEX NUT AND FLAT WASHER TO FASTEN TO THE TOP OF UNDERSIDE PLATE.
- CONTRACTOR SHALL ALIGN UNDERSIDE SUPPORT AND PLATE WITH THE BOLTS FROM ABOVE. CONTRACTOR SHALL MAKE PROVISION TO ENSURE FLUSH CONTACT BETWEEN THE UNDERSIDE STEEL SUPPORT AND EXISTING FRAMING STRUCTURE. CONTRACTOR SHALL FASTEN UNDERSIDE SUPPORT PLATE TO THE BOLTS WITH (1) FLAT WASHER, (2) NUTS PER BOLT. CONTRACTOR SHALL TIGHTEN HEX NUTS ON TOP AND BOTTOM OF THE UNDERSIDE PLATE. CONTRACTOR SHALL TORQUE NUTS SNUG TIGHT.
- ALL ANCHORAGE BOLTS/THREADED RODS SHALL HAVE A MINIMUM OF TWO THREADS EXPOSED WHEN NUTS HAVE BEEN TIGHTENED AND THE EXPOSED THREADS (MIN. OF (2) THREADS) SHALL BE DEFORMED TO PREVENT TAMPERING.
- ALL NECESSARY ANCHOR INSPECTIONS/TESTING SHALL BE DONE PRIOR TO REPLACEMENT OF ROOFING MEMBRANE.
- ROOF MEMBRANE REPAIR AND PROPER ANCHOR FLASHING SHALL BE PERFORMED BY A BUILDING OWNER-APPROVED CONTRACTOR.
- CONTRACTOR SHALL MARK FINAL ANCHOR LOCATION ON AS-BUILT DRAWINGS AND RETURN AS-BUILT DRAWINGS TO THE ENGINEER OF RECORD.
- CONTRACTOR SHALL PERFORM ANY POST ANCHOR INSTALLATION INSPECTION AND TESTING AND FILL OUT PROPER FORMS FOR RETURN TO THE ENGINEER OF RECORD.



- PARTS LIST:**
- JOIST WRAP ROOF ANCHOR
 - GALVANIZED STEEL THREADED ROD WITH WELDED HEX NUT (QTY 4 PER ANCHOR)
 - GALVANIZED STEEL FLAT WASHER (QTY 16 PER ANCHOR)
 - GALVANIZED STEEL HEX NUT (QTY 12 PER ANCHOR)
 - PRIMED UNDERSIDE CONNECTION PLATE
 - PRIMED STEEL WEB STIFFENER
 - WEB STIFFENER CONNECTION BOLT AND HARDWARE
 - ADJACENT JOIST PRIMED UNDERSIDE CONNECTION PLATE (QTY 1 PER ANCHOR)
 - ADJACENT JOIST PRIMED UPPER CONNECTION PLATE (QTY 2 PER ANCHOR)
 - ADJACENT JOIST CONNECTION BOLT AND HARDWARE (QTY 2 PER ANCHOR)
 - PRIMED HSS DISTRIBUTION BEAM TO SPAN TO ONE ADJACENT JOIST
 - EXISTING JOIST STRUCTURE (BY OTHERS)

JOIST WRAP ROOF ANCHOR SERVICE LOADS TRANSFERRED TO STRUCTURE

MODEL NUMBER	ANCHOR HT (IN)	PIPE O.D. (IN)	HOLE SPACING (IN)	SHEAR	AXIAL	MOMENT*
RA-4508-JWDB1	8"	4.0"	8"x8"	1,250 lbs	1,250 lbs	835 ft-lbs
RA-4510-JWDB1	10"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,045 ft-lbs
RA-4512-JWDB1	12"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,250 ft-lbs
RA-4514-JWDB1	14"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,460 ft-lbs
RA-4516-JWDB1	16"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,670 ft-lbs
RA-4518-JWDB1	18"	4.0"	8"x8"	1,250 lbs	1,250 lbs	1,875 ft-lbs
RA-4520-JWDB1	20"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,085 ft-lbs
RA-4522-JWDB1	22"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,295 ft-lbs
RA-4524-JWDB1	24"	4.0"	8"x8"	1,250 lbs	1,250 lbs	2,500 ft-lbs

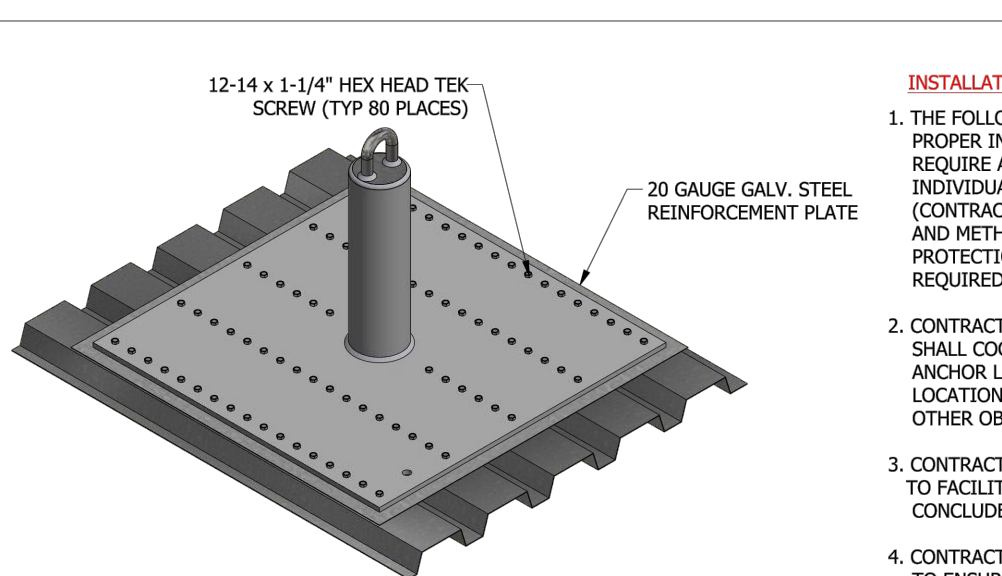
GENERAL MATERIAL SPECIFICATION:
STEEL PIPE: ASTM A53 (35 ksi)
PLATE STEEL: ASTM A36 (36 ksi)
STAINLESS STEEL: TYPE 304 (30 ksi)

Series Name: Joist Wrap Roof Anchor (One Adjacent Joists)
Series Number: RA-4500-JWDB1
Rated Load: 1,250 lbs
Fracture Load: 5,000 lbs

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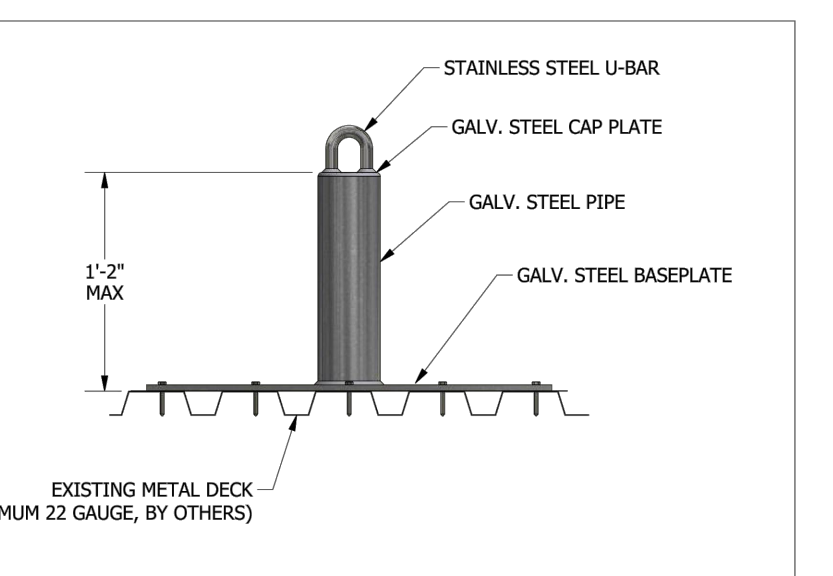


- INSTALLATION NOTES:**
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 - CONTRACTOR SHALL CLEAN/SMOOTH SURFACE OF MOUNTING STRUCTURE TO ENSURE FLUSH AND LEVEL FIT OF ANCHOR TO BUILDING STRUCTURE.
 - CONTRACTOR SHALL ALIGN THE HOLES IN THE METAL DECK ANCHOR WITH METAL DECK TOP FLUTES AND INSTALL (80) TIE SCREWS THROUGH THE METAL DECK ANCHOR BASEPLATE, REINFORCEMENT PLATE AND INTO THE EXISTING METAL DECK. THE FASTENER IS FULLY SEATED WHEN THE HEAD IS FLUSH WITH THE BASEPLATE. DO NOT OVERDRIVE. THE FASTENERS MUST PENETRATE BEYOND THE METAL DECKING A MINIMUM OF THREE PITCHES OF THREAD.
 - ALL NECESSARY ANCHOR INSPECTIONS/TESTING SHALL BE DONE PRIOR TO REPLACEMENT OF ROOFING MEMBRANE.
 - ROOF MEMBRANE REPAIR AND PROPER ANCHOR FLASHING SHALL BE PERFORMED BY A BUILDING OWNER-APPROVED CONTRACTOR.
 - CONTRACTOR SHALL MARK FINAL ANCHOR LOCATION ON AS-BUILT DRAWINGS AND RETURN AS-BUILT DRAWINGS TO THE ENGINEER OF RECORD.
 - CONTRACTOR SHALL PERFORM ANY POST ANCHOR INSTALLATION INSPECTION AND TESTING AND FILL OUT PROPER FORMS FOR RETURN TO THE ENGINEER OF RECORD.

GENERAL MATERIAL SPECIFICATION:
STEEL PIPE: ASTM A53 (35 KSI)
PLATE STEEL: ASTM A36 (36 KSI)
STAINLESS STEEL: TYPE 304 (30 KSI)

Series Name: Metal Deck Mount Anchor
Series Number: RA-5400
Rated Load: 900 lb
Fracture Load: 3,600 lbs
Date: 1-11-17

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 - CONTRACTOR SHALL CUT OPEN ROOFING MEMBRANE IF NECESSARY TO FACILITATE INSTALLATION ONLY AFTER PROPER VERIFICATION IS CONCLUDED.
 - CONTRACTOR SHALL CLEAN/SMOOTH SURFACE OF MOUNTING STRUCTURE TO ENSURE FLUSH AND LEVEL FIT OF ANCHOR TO BUILDING STRUCTURE.
 - CONTRACTOR SHALL ALIGN THE HOLES IN THE METAL DECK ANCHOR WITH METAL DECK TOP FLUTES AND INSTALL (80) TIE SCREWS THROUGH THE METAL DECK ANCHOR BASEPLATE, REINFORCEMENT PLATE AND INTO THE EXISTING METAL DECK. THE FASTENER IS FULLY SEATED WHEN THE HEAD IS FLUSH WITH THE BASEPLATE. DO NOT OVERDRIVE. THE FASTENERS MUST PENETRATE BEYOND THE METAL DECKING A MINIMUM OF THREE PITCHES OF THREAD.
 - ALL NECESSARY ANCHOR INSPECTIONS/TESTING SHALL BE DONE PRIOR TO REPLACEMENT OF ROOFING MEMBRANE.
 - ROOF MEMBRANE REPAIR AND PROPER ANCHOR FLASHING SHALL BE PERFORMED BY A BUILDING OWNER-APPROVED CONTRACTOR.
 - CONTRACTOR SHALL MARK FINAL ANCHOR LOCATION ON AS-BUILT DRAWINGS AND RETURN AS-BUILT DRAWINGS TO THE ENGINEER OF RECORD.
 - CONTRACTOR SHALL PERFORM ANY POST ANCHOR INSTALLATION INSPECTION AND TESTING AND FILL OUT PROPER FORMS FOR RETURN TO THE ENGINEER OF RECORD.

PARTS LIST

ITEM	QTY	PART NUMBER
1	1	METAL DECK (BY OTHERS)
2	1	28" x 28" DECK REINFORCEMENT PLATE
3	1	METAL DECK MOUNT ANCHOR
4	80	1/4" x 1-1/4" HWH TIE SCREW

Series Name: Metal Deck Mount Anchor
Series Number: RA-5400
Rated Load: 900 lb
Fracture Load: 3,600 lbs
Date: 1-11-17

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REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

TERRACON PROJECT NUMBER:
FH226151

DESIGNED BY: NEA

DRAWN BY: SWP

APPROVED BY: SSS

- ISSUE FOR:
- REVIEW / PRICING DOCUMENTS NOT FOR CONSTRUCTION
 - SURVEY REPORT - REPAIR DOCUMENTS
 - SCHEMATIC DESIGN DOCUMENTS NOT FOR CONSTRUCTION
 - DESIGN DEVELOPMENT DOCUMENTS NOT FOR CONSTRUCTION
 - PERMITTING / BIDDING
 - CONSTRUCTION DOCUMENTS
 - ADDENDUM SUBMITTAL
 - RECORD DRAWINGS

ISSUE DATE:
12-8-2022

SHEET NUMBER

W-201