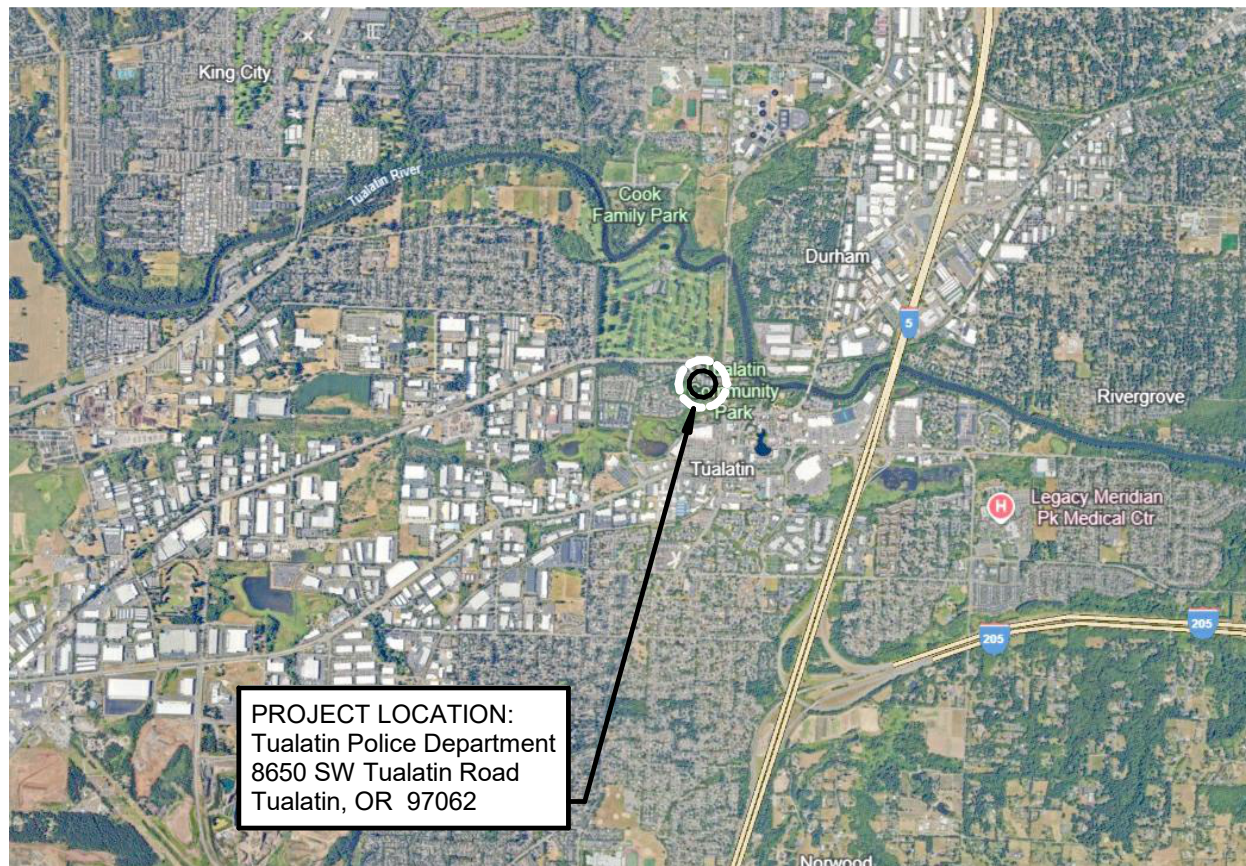


TUALATIN POLICE DEPARTMENT ROOF REPLACEMENT

GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND CONDITIONS OF THE PROJECT, INCLUDING EXISTING CONSTRUCTION AND MATERIALS.
2. STAGING AND STORAGE AREAS SHALL BE AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETING. ASSUME A REASONABLE AMOUNT OF STORAGE AND STAGING SPACE WILL BE MADE AVAILABLE.
3. PROTECT BUILDING SURFACES, FINISHES, AND SYSTEMS FROM DAMAGE, DISCOLORATION, ETC. DURING THE COURSE OF ALL CONSTRUCTION ACTIVITIES. REPAIR / REPLACE PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK; RETURN DAMAGED PROPERTY TO PRE-CONSTRUCTION CONDITION.
4. PROVIDE NECESSARY MEASURES FOR PERSONAL FALL PROTECTION DURING THE COURSE OF CONSTRUCTION. PERSONAL FALL PROTECTION DEVICES ARE NOT, NOR WILL BE, PROVIDED BY THE OWNER ON ANY BUILDING AREA DESIGNATED TO RECEIVE WORK.
5. EXISTING MATERIALS AND CONSTRUCTION ARE NOTED ON THE DRAWINGS AS EXISTING OR EXIST. ALL OTHER NOTATIONS INDICATE NEW MATERIALS, PRODUCTS, AND CONSTRUCTION UNLESS OTHERWISE STATED OR INDICATED.
6. ALL CONSTRUCTION SHALL CONFORM TO THE 2022 OREGON STRUCTURAL SPECIALTY CODE, AND ALL LOCAL GOVERNING BUILDING CODES AND ORDINANCES.
7. LOCATE ALL EXISTING UTILITIES WITHIN OR SERVING AREAS OF WORK WHETHER SHOWN HEREIN OR NOT. PROTECT EXISTING UTILITIES FROM DAMAGE. SEE GENERAL NOTE 3 ABOVE.
8. THE SCOPE OF WORK FOR THIS PROJECT CONSISTS OF A BASE-BID AND ADDITIVE ALTERNATES, AS FOLLOWS:
 - A. BASE-BID: FULL TEAR-OFF AND REPLACEMENT OF EXISTING LOW-SLOPE MEMBRANE ROOF SYSTEMS AT ROOF AREAS A, B, C, D, E, & F, INCLUDING RELATED SHEET METAL FLASHING REPLACEMENT AND OTHER INCIDENTAL WORK, AS IDENTIFIED IN THE CONTRACT DOCUMENTS;
 - B. ALTERNATE No. 1: LIMITED REPAIRS TO EXISTING GUTTERS AT STEEP-SLOPE METAL PANEL ROOF AREAS;
 - C. ALTERNATE No. 2: INSTALLATION OF NEW GUARDRAILS w/ SELF-CLOSING GATE AND LADDER-UP GRAB BAR AT EXISTING ROOF ACCESS HATCH; AND
 - D. ALTERNATE No. 3: INSTALLATION OF NEW SNOW RETENTION SYSTEMS AT STEEP-SLOPE METAL PANEL ROOF AREA EAVES.
9. WORK OF THIS CONTRACT DOES NOT INCLUDE ANY INCREASE IN BUILDING AREA OR CHANGE IN OCCUPANCY.
10. THE REQUIREMENTS FOR THE WORK OF THIS CONTRACT ARE DESCRIBED IN THIS DRAWING SET AND THE PROJECT MANUAL.
11. PROTECT BUILDING OCCUPANTS AND PASSERS-BY FROM FALLING DEBRIS AND EQUIPMENT. DO NOT THROW MATERIALS FROM THE BUILDING OR STAGING AREAS.
12. ROOF AND BUILDING ACCESS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
13. ALL ITEMS TRANSPORTED TO THE AREAS OF WORK SHALL BE TRANSPORTED USING APPROVED AND SAFE METHODS OF LOADING. DO NOT OVER-LOAD THE STRUCTURE.
14. EMPLOY MEANS OF PROTECTING THE BUILDING OCCUPANTS AND GENERAL PUBLIC AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.
15. TEMPORARY STAGING, SCAFFOLDING, AND RUNWAYS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PLACED IN DESIGNATED LOCATIONS ONLY.
16. COORDINATE PERMITS REQUIRED FOR PERFORMANCE OF THE WORK, INCLUDING BUT NOT LIMITED TO ROAD CLOSURES, PARKING STALLS, SIDEWALK CLOSURES, AND SCAFFOLD ERECTION, WITH THE OWNER'S REPRESENTATIVE.
17. PROTECT BUILDING GROUNDS INCLUDING LANDSCAPE AREAS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
18. RESTORE SITE TO PRE-CONSTRUCTION CONDITION AT PROJECT COMPLETION.
19. ALL EXISTING ROOF SURFACES THAT WILL BE SUBJECTED TO FOOT AND/OR EQUIPMENT TRAFFIC IN ANY WAY SHALL BE PROTECTED WITH ONE LAYER OF MINIMUM 5/8" THICK PLYWOOD OVER 1" RIGID INSULATION. THIS INCLUDES ALL ROOF SURFACES THAT ARE USED AS A WORK PLATFORM OR FOR MATERIAL / EQUIPMENT TRANSPORT, MATERIAL / EQUIPMENT STORAGE, OR AS A BEARING SURFACE FOR SCAFFOLDING. ALL PROTECTION IN A PARTICULAR WORK AREA SHALL BE PLACED PRIOR TO COMMENCEMENT OF WORK WITHIN THAT AREA.
20. WORK AREAS AND STAGING AREAS SHALL BE SECURED AT ALL TIMES TO PREVENT UNAUTHORIZED ACCESS.

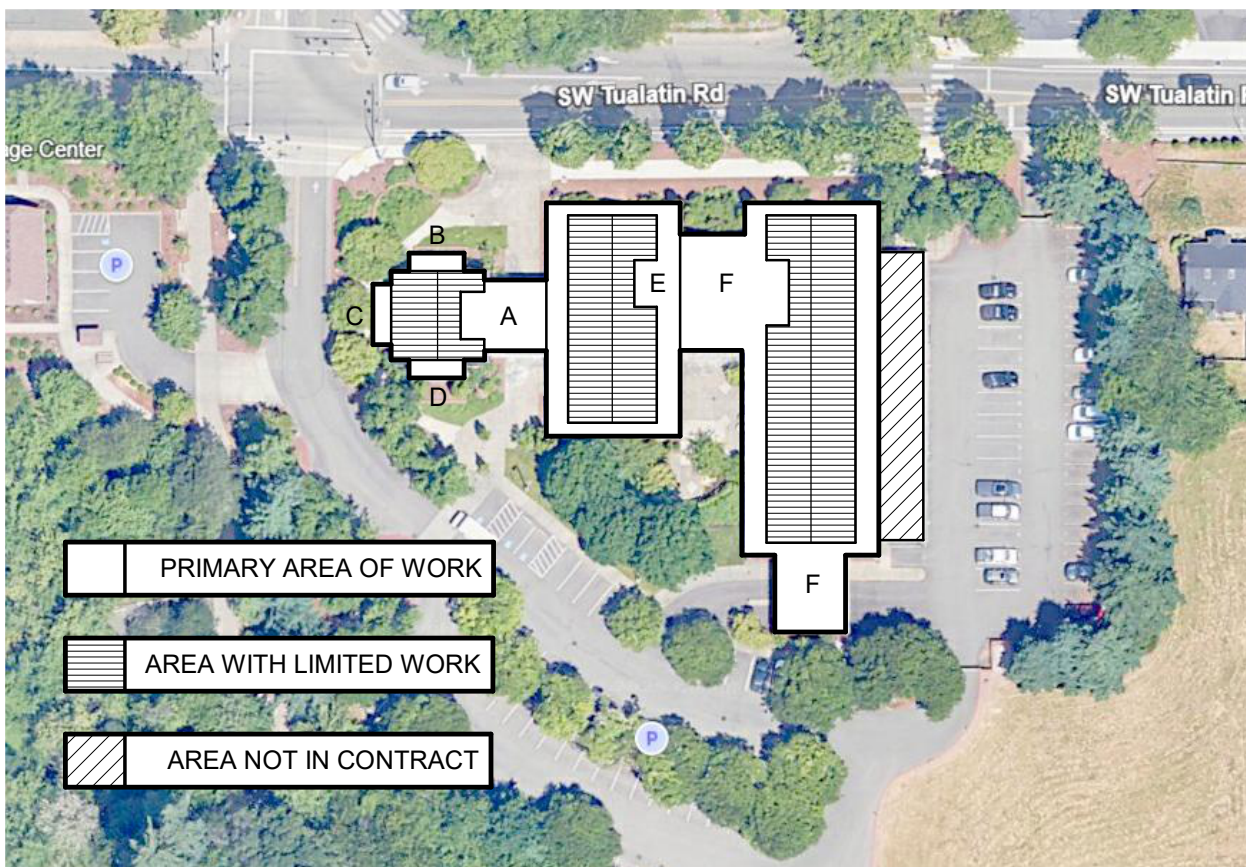
SITE MAPS



1 LOCATION MAP
GI-1 NOT TO SCALE



2 VICINITY MAP
GI-1 NOT TO SCALE



3 SITE MAP
GI-1 NOT TO SCALE

PROJECT TEAM

OWNER

City of Tualatin
10699 SW Herman Road
Tualatin, Oregon 97062

(503) 691-3099

Contact:
Bryce McKenna, Fleet and Facilities Manager



ROOF CONSULTANT

Professional Roof Consultants, Inc.
606 SE 9th Avenue
Portland, Oregon 97214

(503) 280-8759

Contact:
Derek E. Josephson, RRC, RRO, REWO

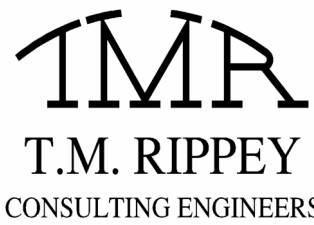


STRUCTURAL ENGINEERING CONSULTANT

TM Rippey Consulting Engineers
7650 Beveland Street, Suite 100
Tigard, Oregon 97223

(503) 443-3900

Contact:
Ralph Turnbaugh, PE



DESIGN STATEMENT

1. THE EXISTING BUILDING IS ASSUMED TO HAVE BEEN DESIGNED AND CONSTRUCTED TO WITHSTAND APPLICABLE STRUCTURAL DESIGN LOADS (INCLUDING BUT NOT LIMITED TO DEAD, LIVE, SNOW, WIND, RAIN, AND EARTHQUAKE LOADS) REQUIRED BY GOVERNING BUILDING CODES ENFORCED AS OF THE DATE OF THE BUILDING PERMIT APPLICATION PERTAINING TO EACH INDIVIDUALLY CONSTRUCTED PORTION OF THE EXISTING BUILDING.
2. DESIGN WIND PRESSURES AND WIND ZONE REGION EXTENTS HAVE BEEN CALCULATED BY THE STRUCTURAL ENGINEERING CONSULTANT IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN ASCE 7-16, CHAPTERS 26 THROUGH 30, AS REQUIRED BY THE 2022 EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE (OSSC), AND ARE INDICATED ON THE ROOF WIND UPLIFT LOAD DIAGRAM ON DRAWING SHEET S100.
3. THE LOW-SLOPE MEMBRANE ROOF SYSTEM MANUFACTURER SHALL DETERMINE THE FASTENER AND/OR ADHESIVE PLACEMENT PATTERNS REQUIRED TO RESIST THE DESIGN WIND PRESSURES FOR EACH WIND ZONE, WITH AN APPLIED FACTOR OF SAFETY OF 2.0.
4. ROOF EDGE SYSTEMS HAVE BEEN DESIGNED BASED ON ASSEMBLIES IDENTIFIED BY NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) AS HAVING BEEN TESTED BY THE UNDERWRITERS LABORATORY (UL) IN ACCORDANCE WITH THE APPLICABLE TEST METHODS OF ANSI/SPRI/FM 4435/ES-1, AS REQUIRED BY SECTION 1505.6 OF THE 2022 EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE (OSSC), TO RESIST LOADS EQUIVALENT TO OR GREATER THAN THE DESIGN WIND PRESSURES FOR EACH WIND ZONE ESTABLISHED FOR THE PROJECT BY THE STRUCTURAL ENGINEERING CONSULTANT, WITH AN APPLIED FACTOR OF SAFETY OF 2.0.

DRAWING SHEET INDEX

GI-1 GENERAL INFORMATION

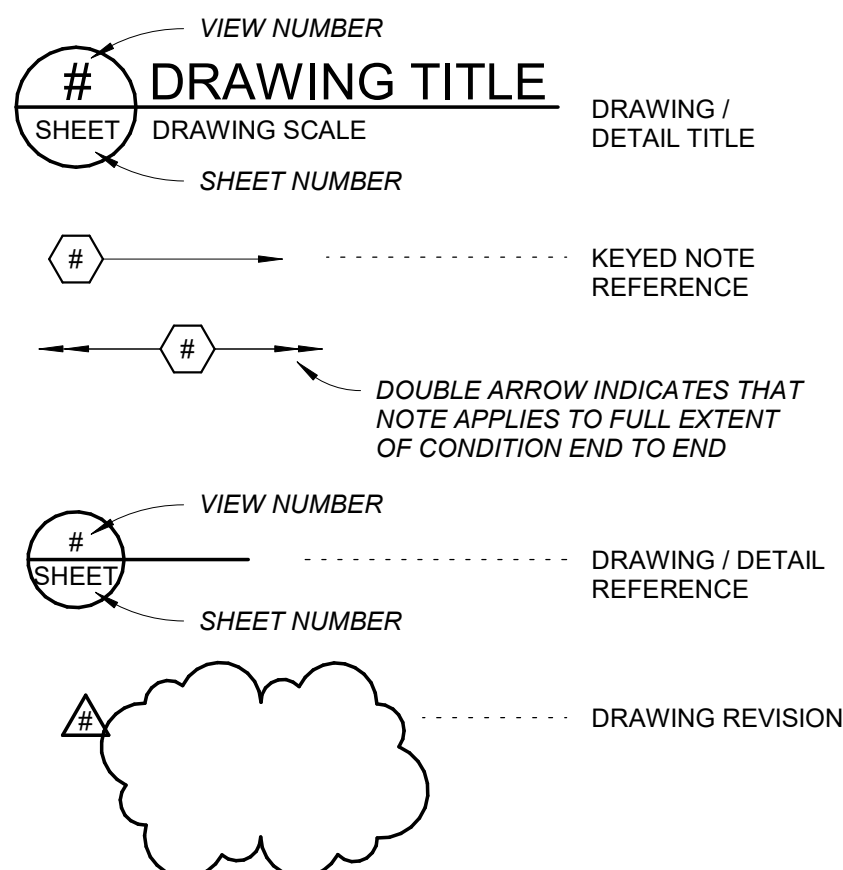
R100 OVERALL ROOF PLAN & ROOF ASSEMBLY DETAILS
R101 PARTIAL ROOF PLAN - ROOF AREAS A, B, C, D, & E
R102 PARTIAL ROOF PLAN - ROOF AREA F

R201 ROOF DETAILS
R202 ROOF DETAILS
R203 ROOF DETAILS
R204 ROOF DETAILS
R205 ROOF DETAILS
R206 ROOF DETAILS

S001 STRUCTURAL GENERAL NOTES
S100 ROOF WIND UPLIFT LOAD DIAGRAM
S201 STRUCTURAL DETAILS

SYMBOLS & ABBREVIATIONS

SYMBOLS



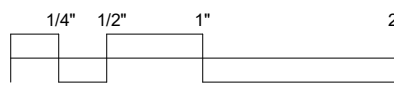
ABBREVIATIONS

@	AT (SPACING / FREQUENCY)
APPROX. or ±	APPROXIMATE
CONT.	CONTINUOUS
DEG. or °	DEGREE(S)
DIA. or Ø	DIAMETER
EXIST. or (E)	EXISTING
GA	GAGE (THICKNESS)
GALV.	METALLIC-COATED (FOR SHEET METAL) - or - HOT-DIPPED GALVANIZED (FOR STRUCTURAL / MISCELLANEOUS METAL)
MAX.	MAXIMUM
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER (SPACING / FREQUENCY)
OPP.	OPPOSITE HAND
REQ'D	REQUIRED
SIM.	SIMILAR
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
w/	WITH

CITY OF TUALATIN
TUALATIN POLICE DEPARTMENT
ROOF REPLACEMENT

Sheet Title:
GENERAL INFORMATION

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Date: JUNE 2025

Revisions:

Drawn: RSB
Checked: DEJ

PRC No.: R3538.01

Sheet No.:

GI-1

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PLAN SYMBOLS SHOWN BELOW ARE EXAMPLES AND DO NOT NECESSARILY REFLECT EACH TYPE OF EACH ITEM INCLUDED IN THE PROJECT. REFER TO SHEETS R101 & R102 FOR COMPREHENSIVE SYMBOL LEGEND.

PLAN SYMBOL

ROOFTOP ITEM


9. WALL-MOUNTED UTILITY SERVICE EQUIPMENT & DISTRIBUTION SYSTEMS:

- A. TEMPORARILY DISPLACE EXISTING WALL-MOUNTED EQUIPMENT AND UTILITY RUNS AS NECESSARY TO EXECUTE ROOF SYSTEM AND FLASHING SYSTEM WORK ITEMS.
- B. DEMOLISH EXISTING HANGERS AND MOUNTINGS AND PROVIDE NEW MOUNTINGS AS INDICATED.
- C. DISCONNECT AND MODIFY EXISTING UTILITY TERMINATIONS WHERE NECESSARY TO ACCOMMODATE REQUIRED RECONFIGURATIONS.




10. SKYLIGHT:

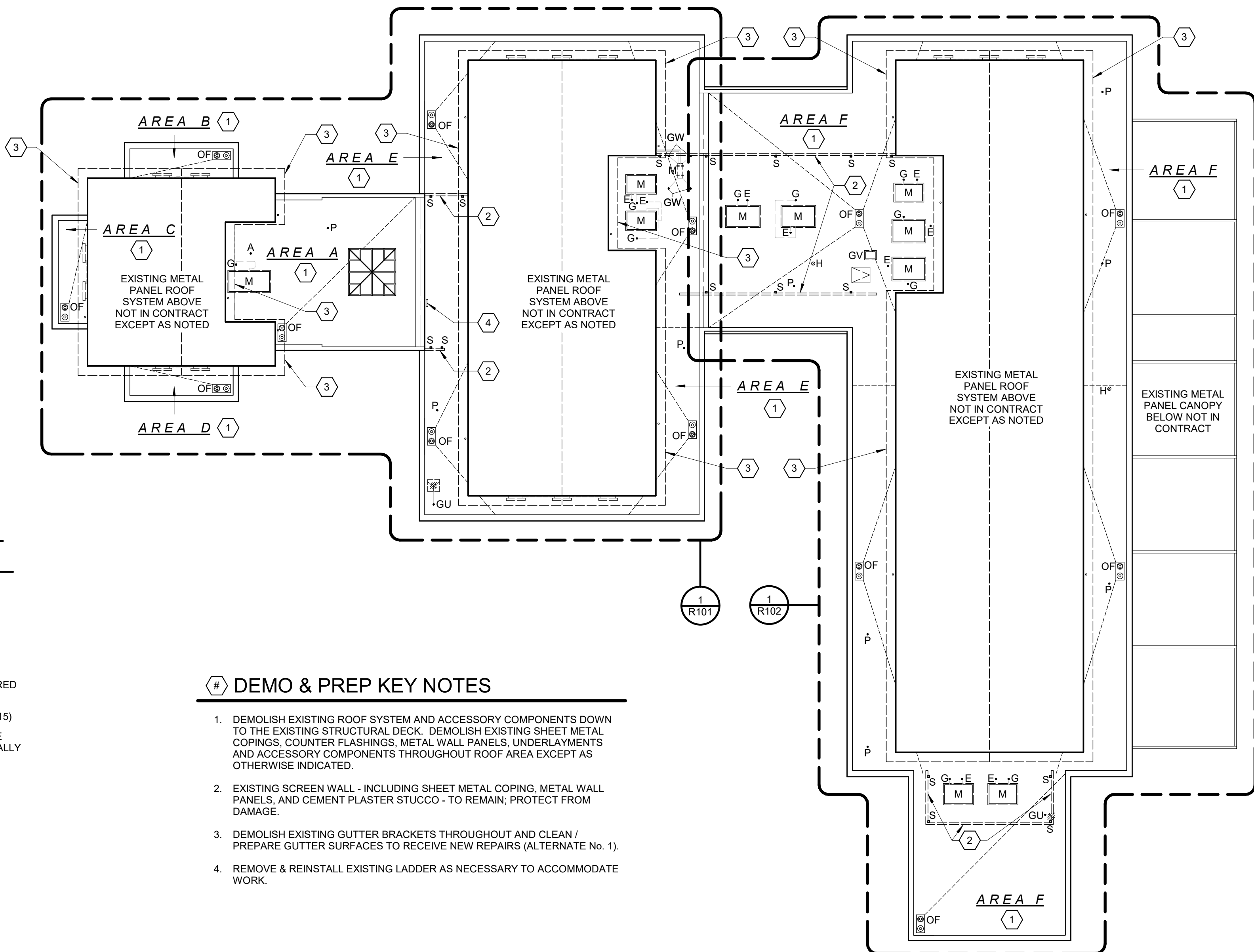
- A. PROTECT EXISTING SKYLIGHT AND ACCESSORY COMPONENTS FROM DAMAGE.



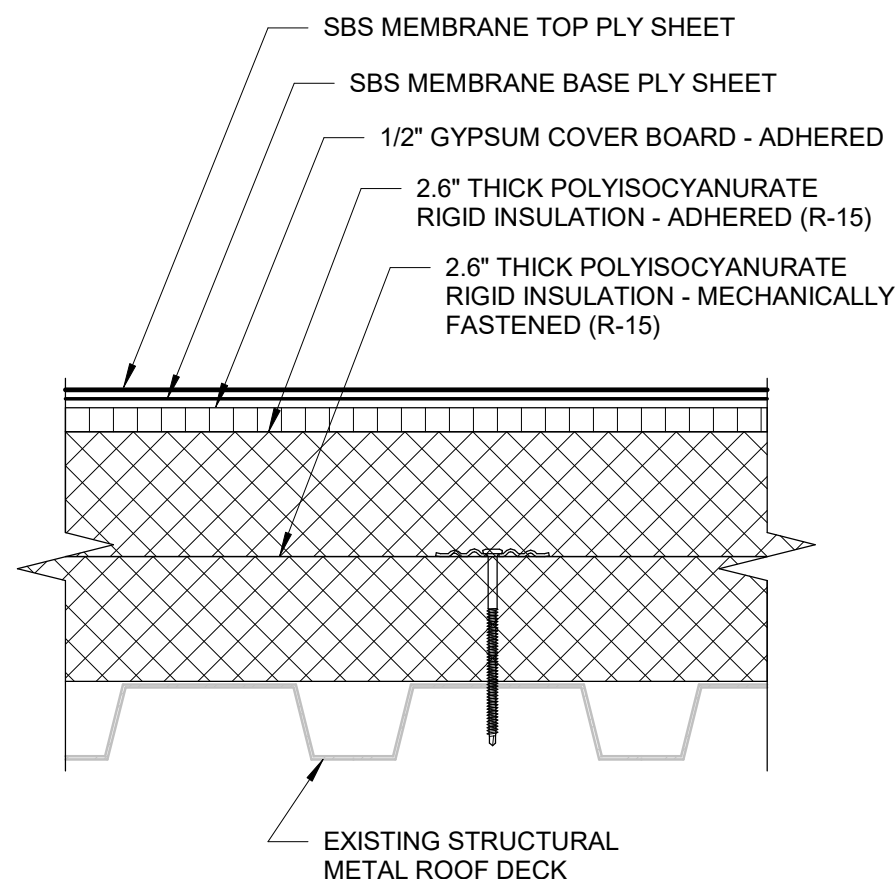
11. ACCESS HATCH:

- A. TEMPORARILY DISPLACE CURB AS NECESSARY TO INSTALL CURB MODIFICATIONS AS INDICATED FOR HEIGHT EXTENSION.
- B. RESET / RESECURE AND RETURN HATCH TO PRECONSTRUCTION OPERATING CONDITION.





1. DEMOLISH EXISTING ROOF SYSTEM AND ACCESSORY COMPONENTS DOWN TO THE EXISTING STRUCTURAL DECK. DEMOLISH EXISTING SHEET METAL COPINGS, COUNTER FLASHINGS, METAL WALL PANELS, UNDERLAYMENTS AND ACCESSORY COMPONENTS THROUGHOUT ROOF AREA EXCEPT AS OTHERWISE INDICATED.
2. EXISTING SCREEN WALL - INCLUDING SHEET METAL COPING, METAL WALL PANELS, AND CEMENT PLASTER STUCCO - TO REMAIN; PROTECT FROM DAMAGE.
3. DEMOLISH EXISTING GUTTER BRACKETS THROUGHOUT AND CLEAN / PREPARE GUTTER SURFACES TO RECEIVE NEW REPAIRS (ALTERNATE No. 1).
4. REMOVE & REINSTALL EXISTING LADDER AS NECESSARY TO ACCOMMODATE WORK.

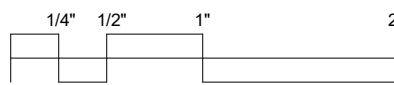


OVERALL ROOF PLAN

CITY OF TUALATIN
TUALATIN POLICE DEPARTMENT
ROOF REPLACEMENT

Sheet Title:
PARTIAL ROOF PLAN - ROOF AREAS
A, B, C, D, & E

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Date: JUNE 2025

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Drawn: RSB

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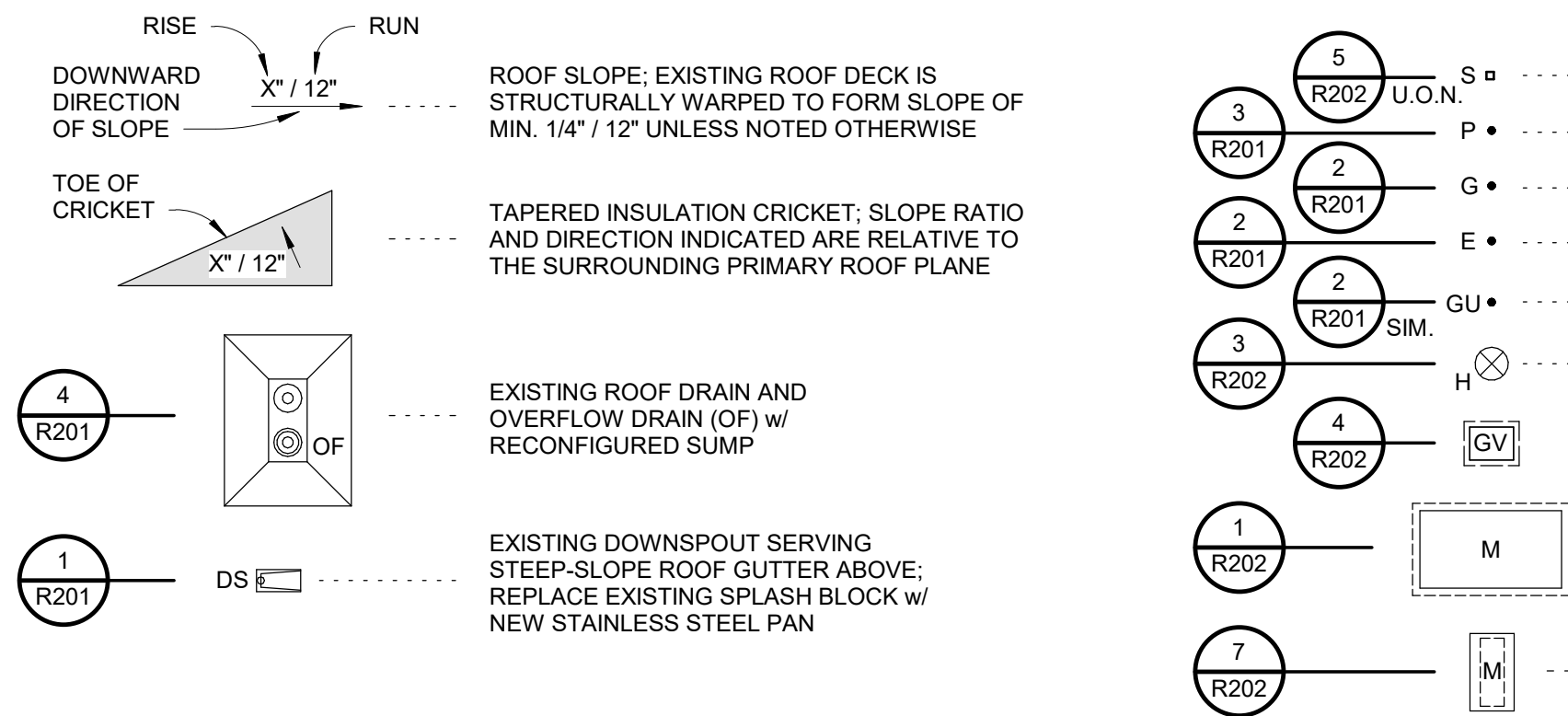
Sheet No.:

R101

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LEGEND

LIST IS COMPREHENSIVE FOR ENTIRE PROJECT - NOT ALL ITEMS PERTAIN TO THIS SHEET



SHEET NOTES

- REFER TO SHEET GI-1 FOR GENERAL NOTES, ANNOTATION SYMBOLS, AND ABBREVIATIONS.
- REFER TO SHEET R100 FOR DEMOLITION & PREPARATION REQUIREMENTS.
- REFER TO SHEET R100 FOR EXISTING LOW-SLOPE ROOF ASSEMBLY AND NEW LOW-SLOPE ROOF ASSEMBLY DETAILS.

KEYED NOTES

LIST IS COMPREHENSIVE FOR PROJECT

NOT ALL ITEMS PERTAIN TO THIS SHEET

- AS INDICATED BY DOUBLE DASHED LINE (-----), REPAIR EXISTING GUTTER (ALTERNATE No. 1) AND PROVIDE SNOW RETENTION SYSTEM (ALTERNATE No. 3) ALONG FULL LENGTH OF EXISTING STEEP-SLOPE METAL PANEL ROOF EAVE; REFER TO DETAIL
- RE-ROUTE EXISTING ELECTRICAL CONDUIT; MOUNT TO EXISTING FLASHING RECEIVER AT BASE OF EXISTING WALL CLADDING w/ STAINLESS STEEL BRACKET CLIPS; DO NOT PENETRATE EXISTING WALL CLADDING.
- PROVIDE SADDLE FLASHING AT PARAPET INTERSECTION; REFER TO DETAIL
- RECONSTRUCT EXISTING GUTTER EXPANSION JOINT IN ACCORDANCE w/ SMACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-7

EXISTING OVER-ROOF GAS LINE

EXISTING OVER-ROOF ELECTRICAL CONDUIT

EXISTING OVER-ROOF LINE-SET (REFRIGERANT SUPPLY & RETURN, ELECTRICAL)

EXISTING WALL-MOUNTED LIGHT FIXTURE

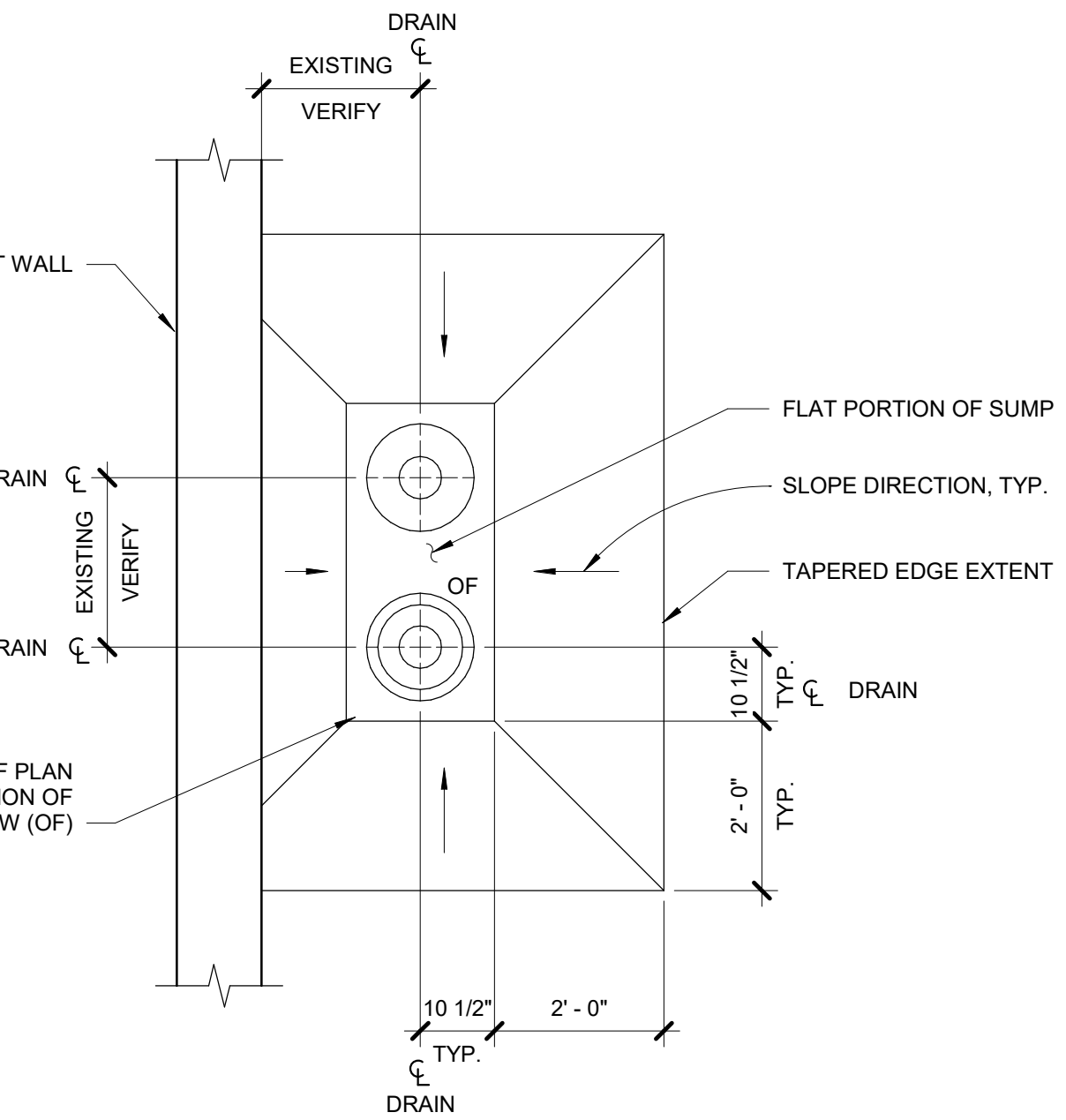
EXISTING ACCESS LADDER HATCH ON NEW CURB EXTENSION (BASE-BID); NEW LADDER-UP GRAB BAR (ALTERNATE No. 2), & NEW GUARDRAILS w/ SELF-CLOSING GATE (ALTERNATE No. 2)

EXISTING EXTERNAL WALL-MOUNTED ACCESS LADDER

WALK PAD - LAYOUT SHOWN IS CONCEPTUAL; FINAL LAYOUT SHALL BE COORDINATED w/ OWNER; AT A MINIMUM, PROVIDE AT POINTS OF ACCESS AND SERVICE-SIDES OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE

EXISTING ALUMINUM FRAME GLAZED SKYLIGHT (PYRAMID)

DRAIN AND OVERFLOW DRAIN SUMP AT CORNER - PLAN



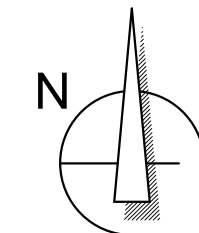
DRAIN AND OVERFLOW DRAIN SUMP AT WALL - PLAN

2 DRAIN SUMP PLANS

1/2" = 1'-0"

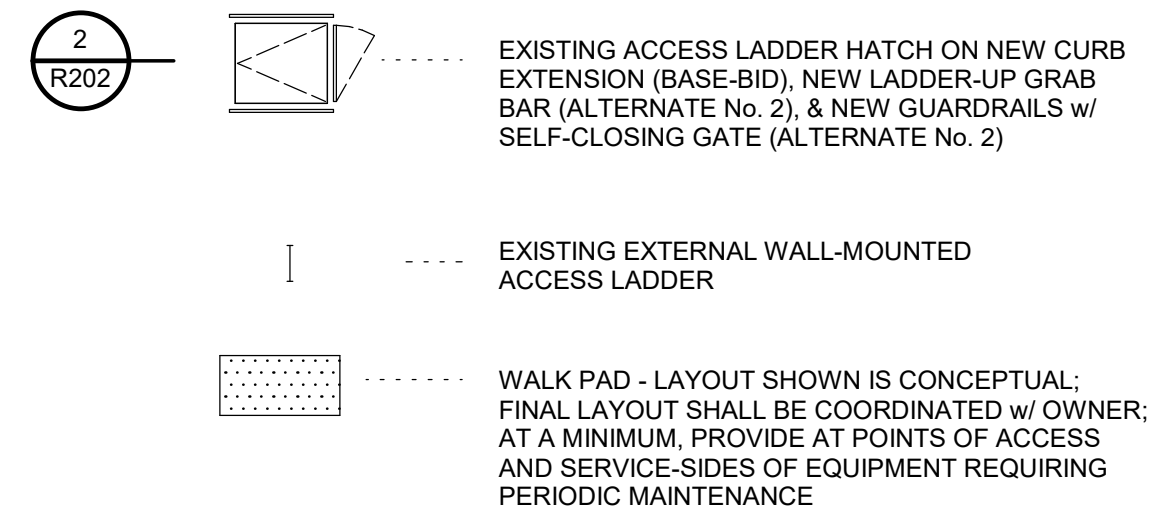
1 PARTIAL ROOF PLAN - ROOF AREAS A, B, C, D, & E

1/8" = 1'-0"





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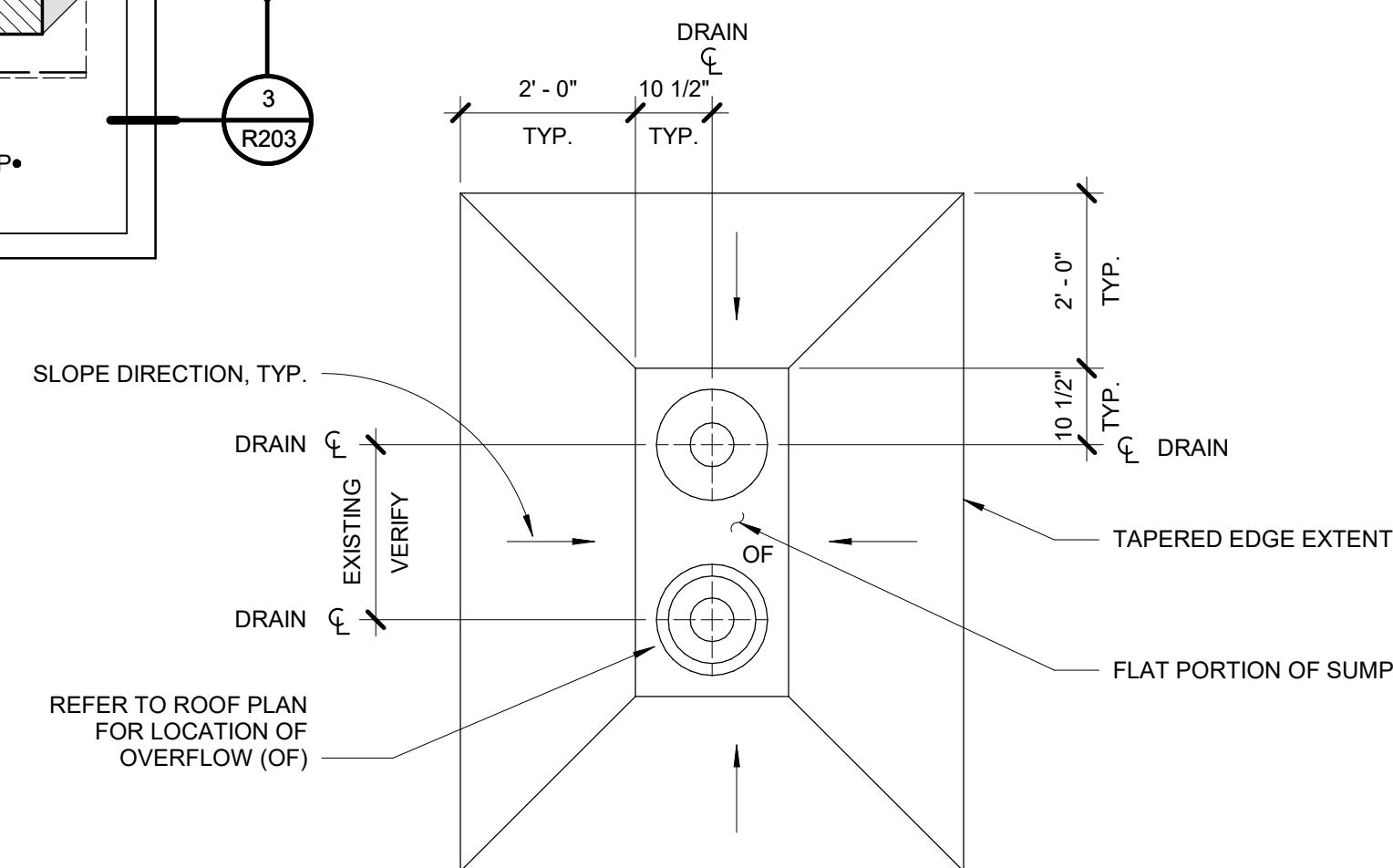
LIST IS COMPREHENSIVE FOR ENTIRE PROJECT - NOT ALL ITEMS PERTAIN TO THIS SHEET



1. REFER TO SHEET GI-1 FOR GENERAL NOTES, ANNOTATION SYMBOLS, AND ABBREVIATIONS.
2. REFER TO SHEET R100 FOR DEMOLITION & PREPARATION REQUIREMENTS
3. REFER TO SHEET R100 FOR EXISTING LOW-SLOPE ROOF ASSEMBLY AND NEW LOW-SLOPE ROOF ASSEMBLY DETAILS.

NOT ALL ITEMS PERTAIN TO THIS SHEET

1. AS INDICATED BY DOUBLE DASHED LINE (=====), REPAIR EXISTING GUTTER (ALTERNATE No. 1) AND PROVIDE SNOW RETENTION SYSTEM (ALTERNATE No. 3) ALONG FULL LENGTH OF EXISTING STEEP-SLOPE METAL PANEL ROOF EAVE; REFER TO DETAIL 
2. RE-ROUTE EXISTING ELECTRICAL CONDUIT; MOUNT TO EXISTING FLASHIN RECEIVER AT BASE OF EXISTING WALL CLADDING w/ STAINLESS STEEL BRACKET CLIPS; DO NOT PENETRATE EXISTING WALL CLADDING.
3. PROVIDE SADDLE FLASHING AT PARAPET INTERSECTION; REFER TO DETAIL 
4. RECONSTRUCT EXISTING GUTTER EXPANSION JOINT IN ACCORDANCE w/ SMAACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-7



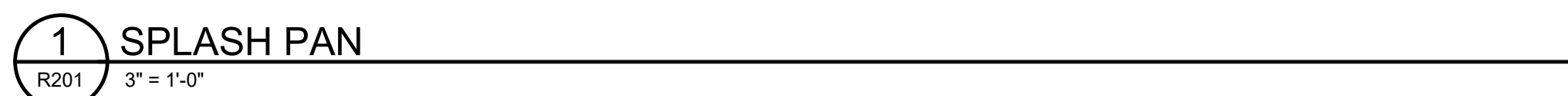
DRAIN AND OVERFLOW DRAIN SUMP AT FIELD OF ROOF - PLAN
REFER TO SHEET R101 FOR CONFIGURATIONS AT WALLS / CORNERS

$1/8'' = 1'-0''$

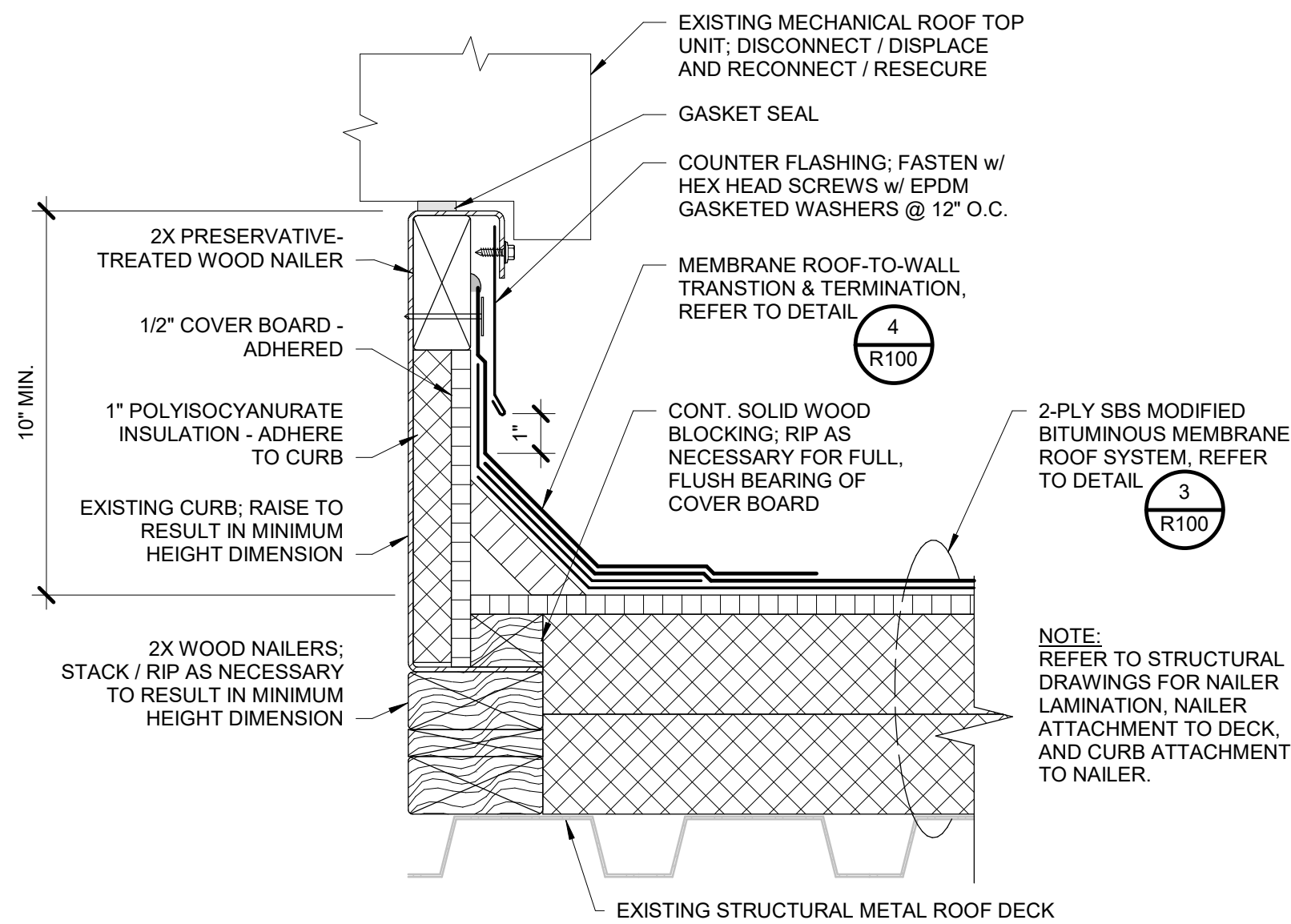
$$\frac{1}{8}'' = 1'-0''$$

R102

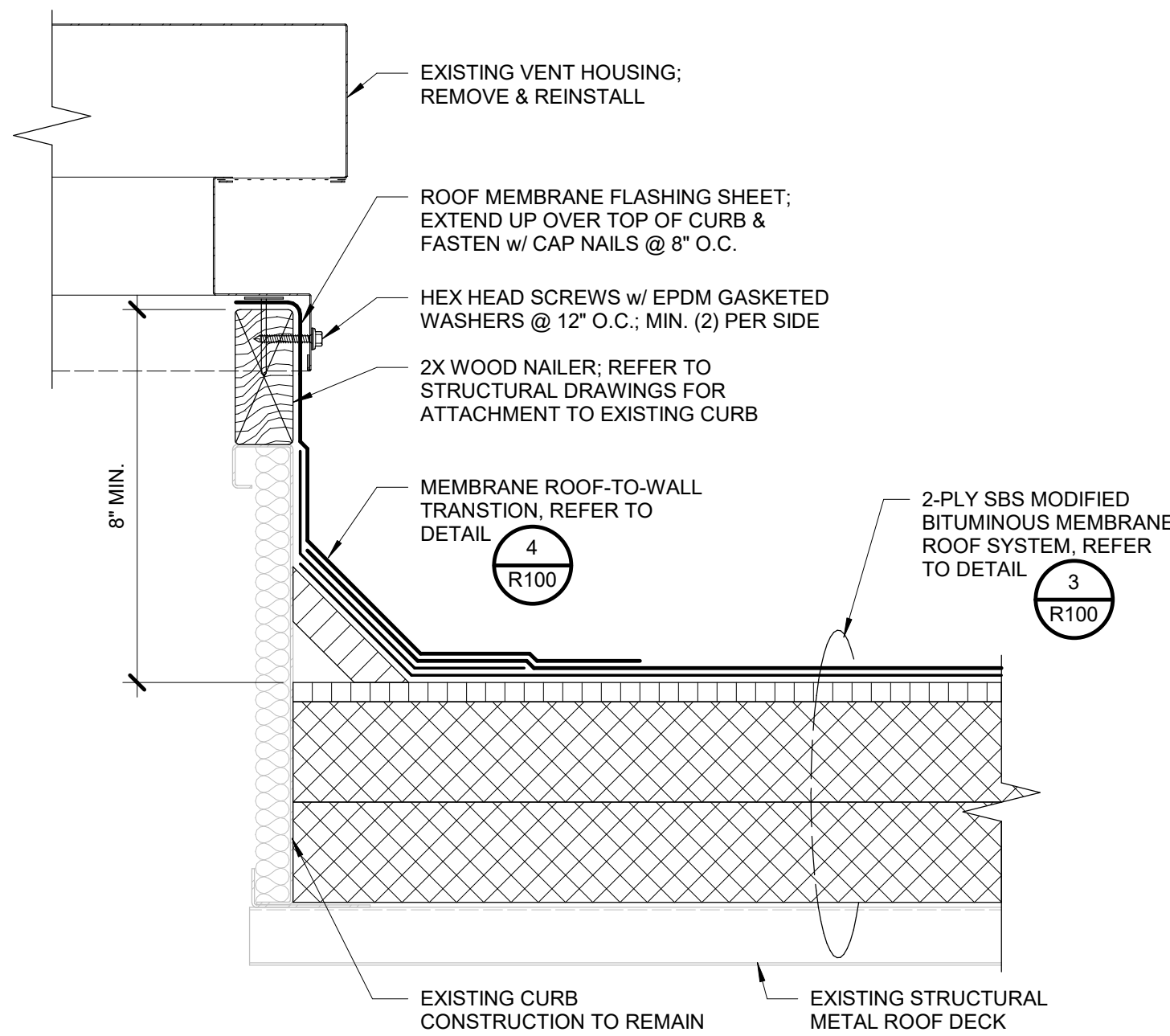
$$1/2'' = 1'-0''$$



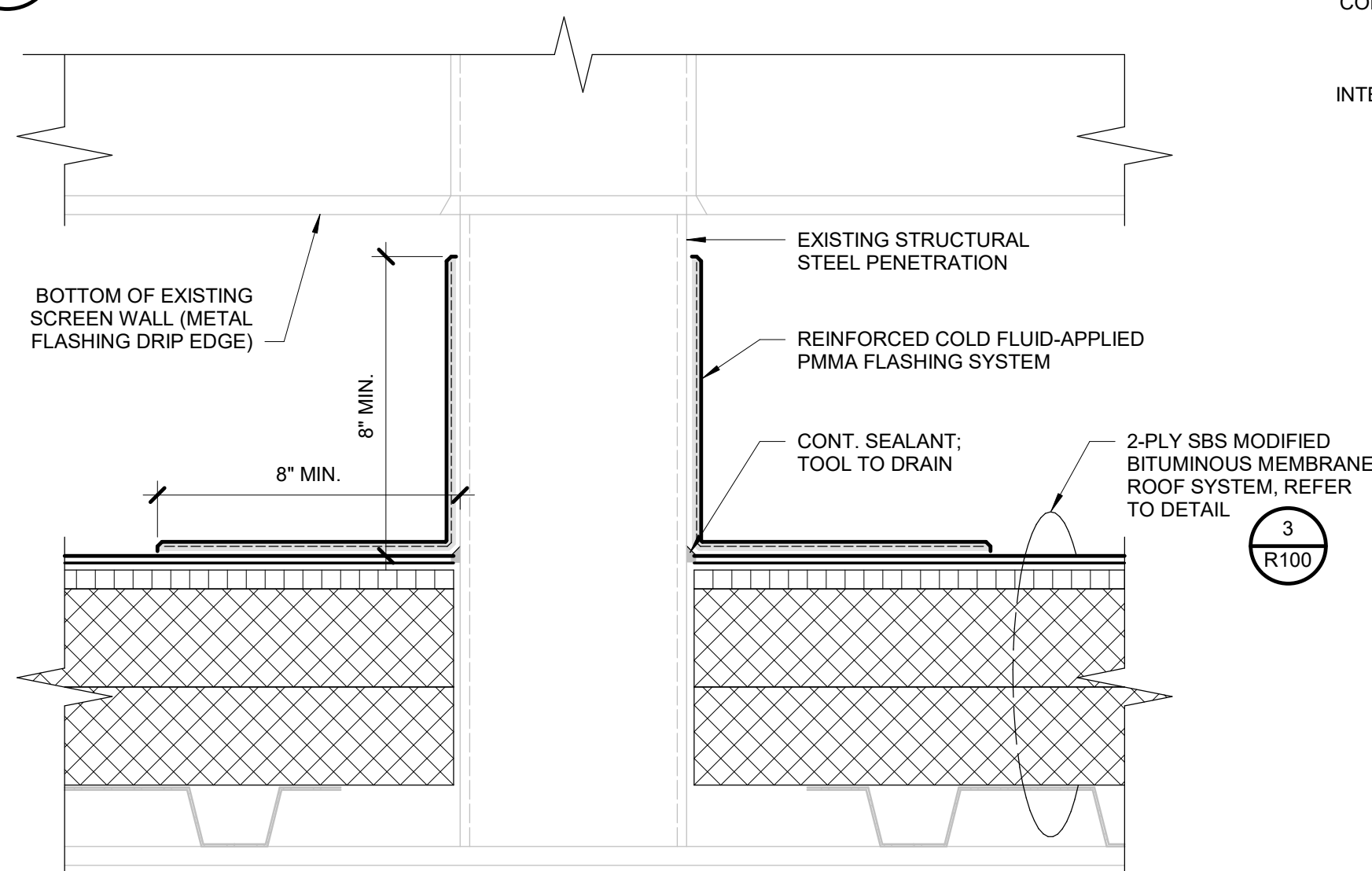
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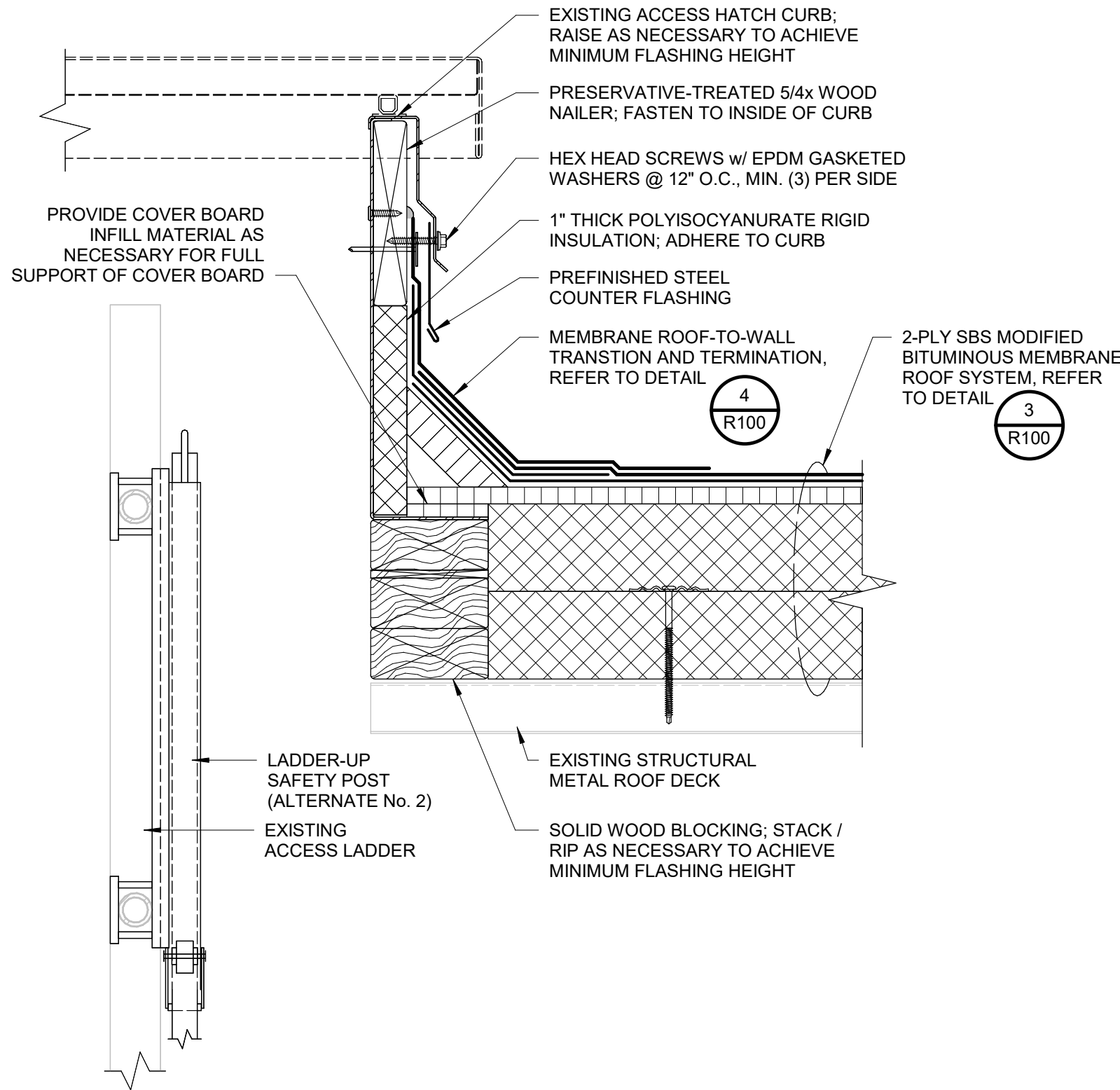
1 MECHANICAL UNIT CURB FLASHING
R202 3" = 1'-0"



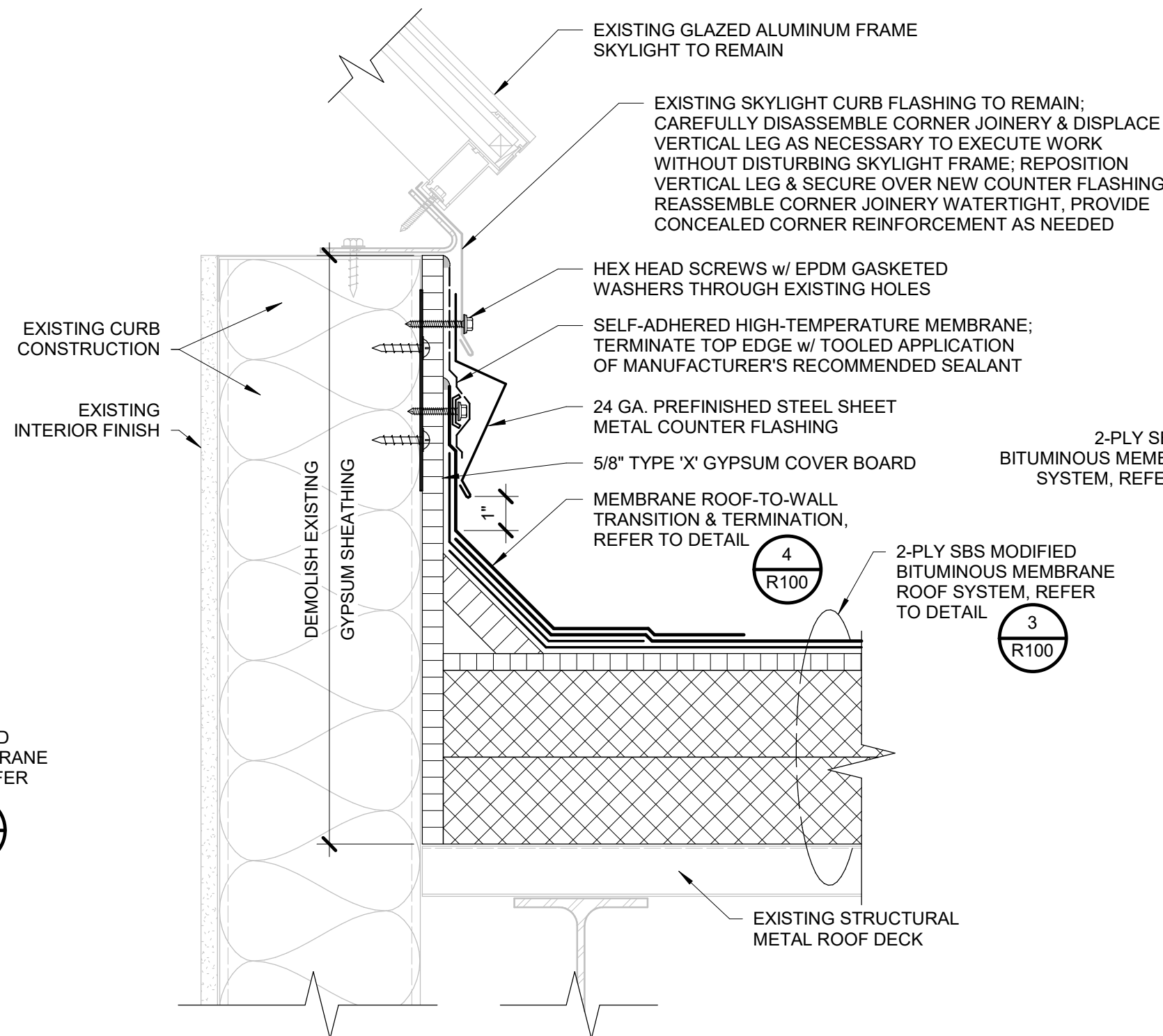
4 CURBED VENT FLASHING
R202 3" = 1'-0"



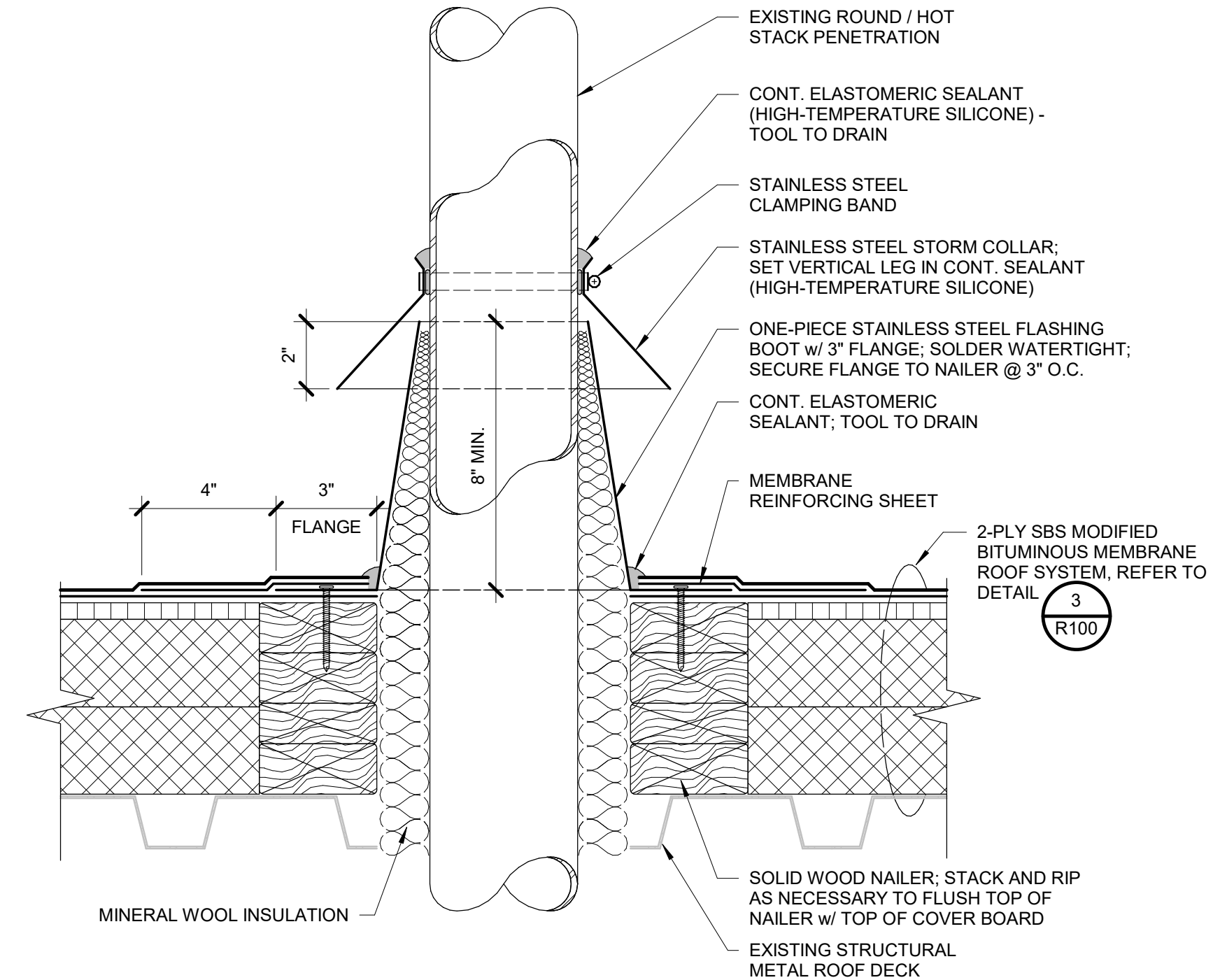
5 STRUCTURAL PENETRATION FLASHING
R202 3" = 1'-0"



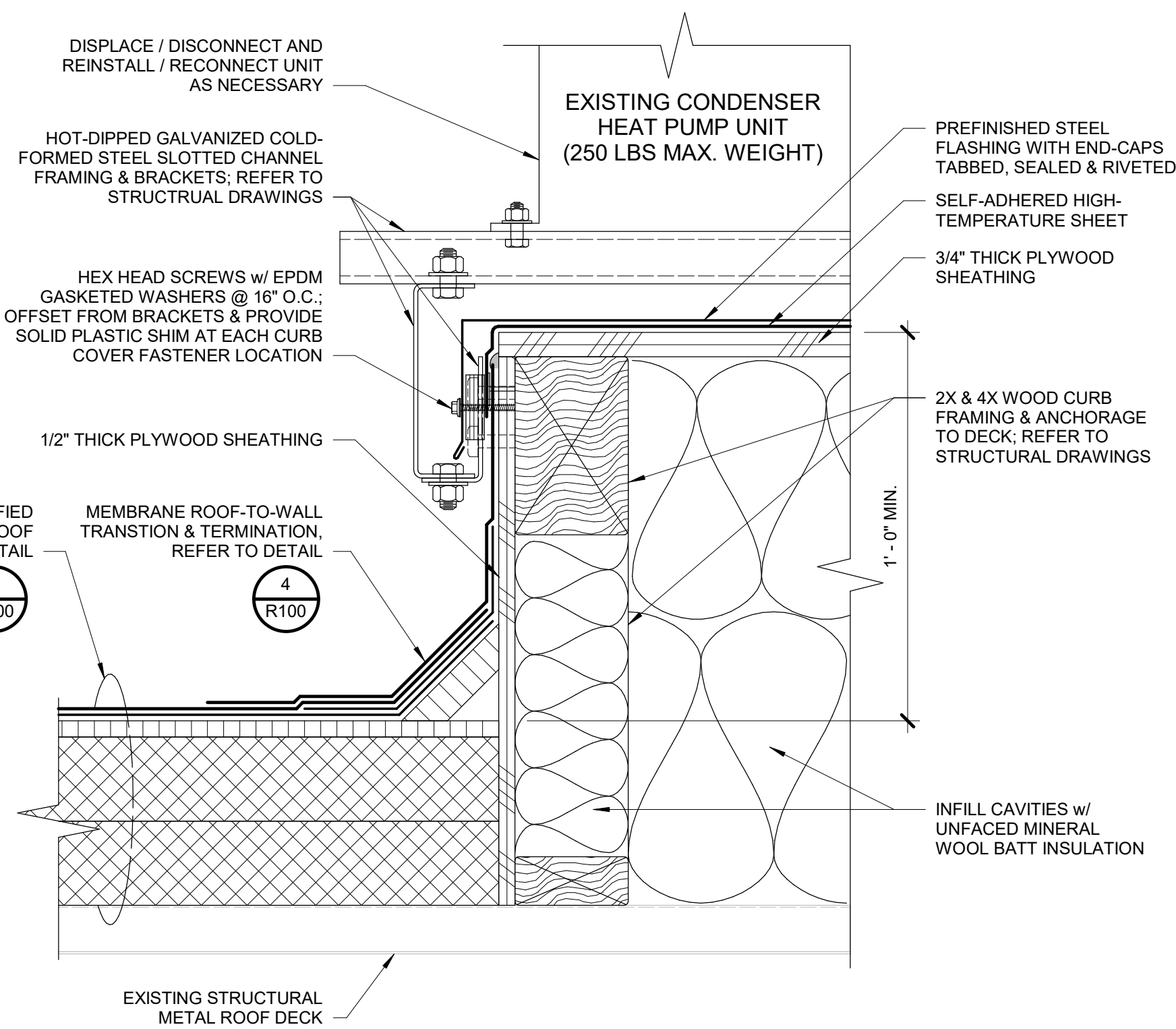
2 ACCESS HATCH CURB FLASHING
R202 3" = 1'-0"



6 SKYLIGHT CURB FLASHING
R202 3" = 1'-0"



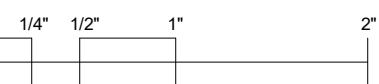
3 ROUND/HOT STACK PENETRATION FLASHING
R202 3" = 1'-0"



7 PLATFORM CURB FLASHING
R202 3" = 1'-0"

Sheet Title:
ROOF DETAILS

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Revisions:

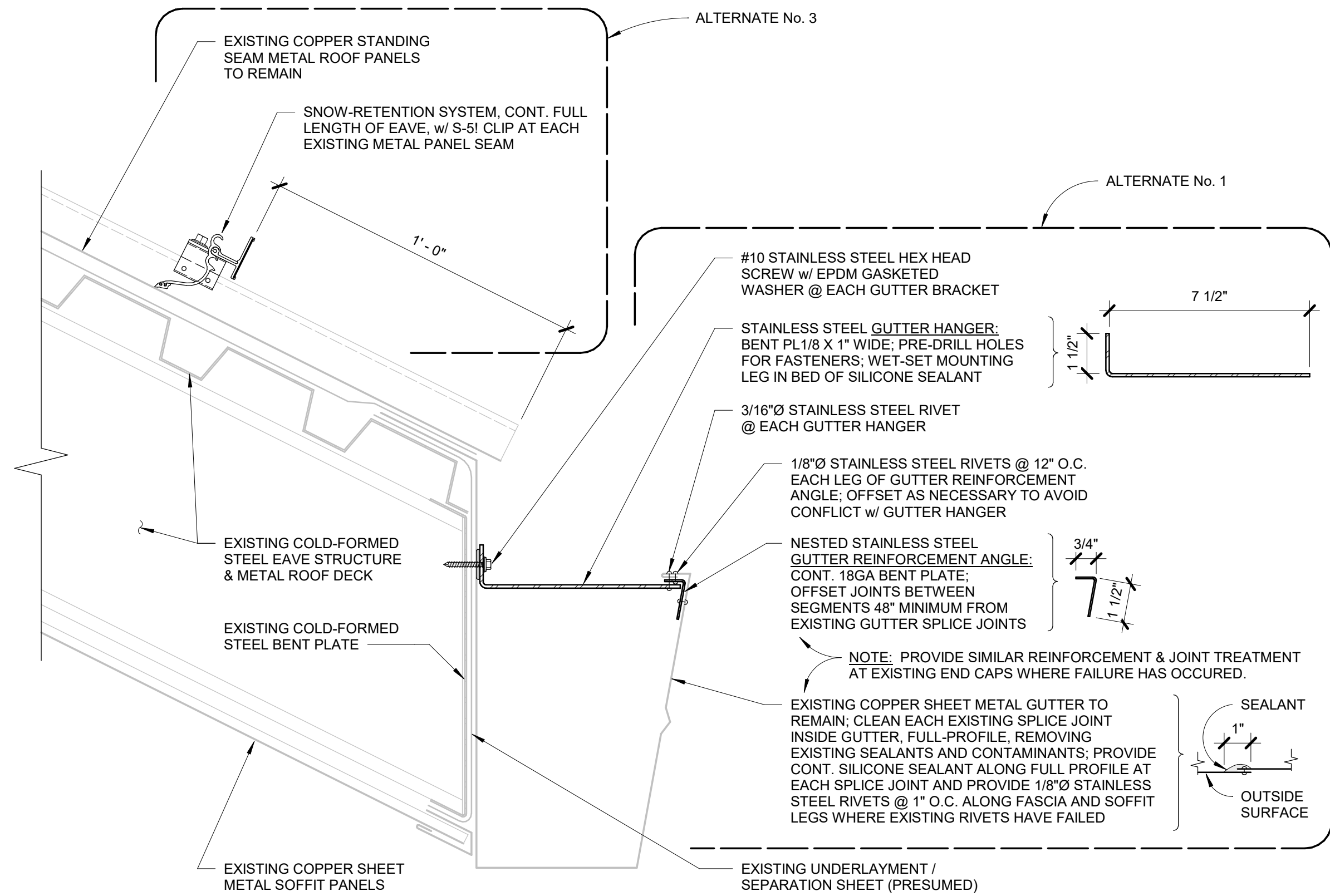
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Checked: DEJ

PRC No.: R3538.01

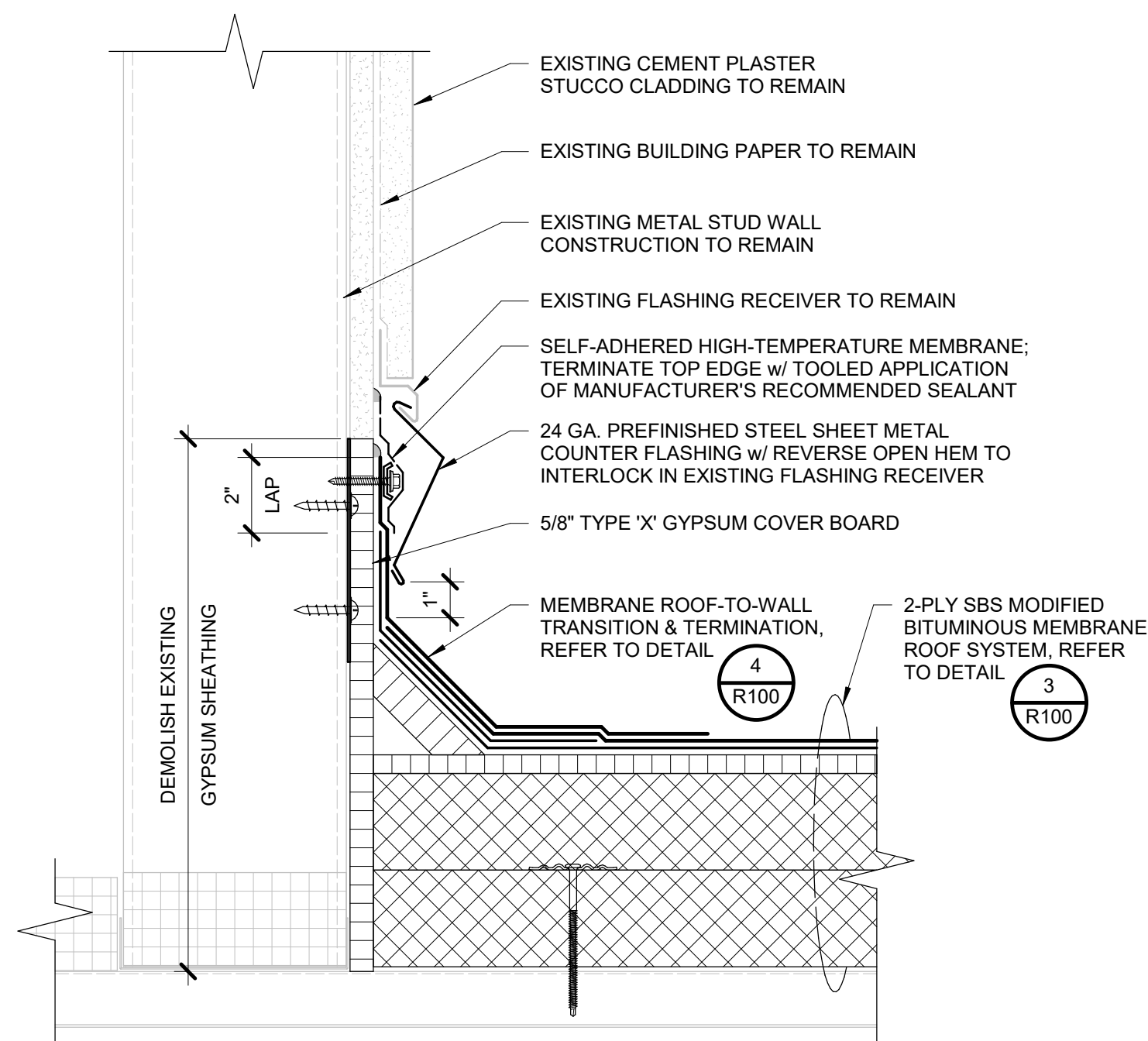
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R202
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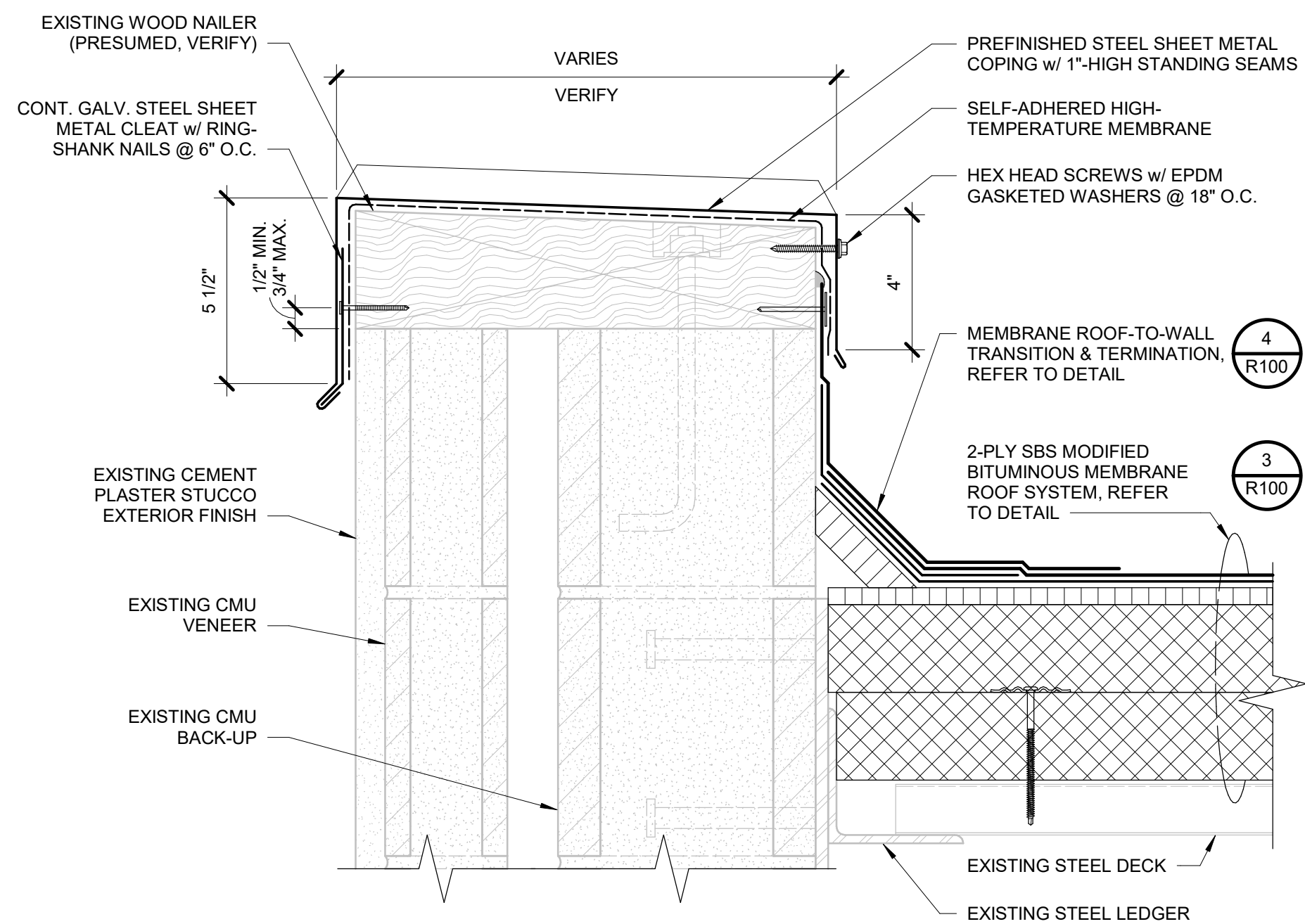
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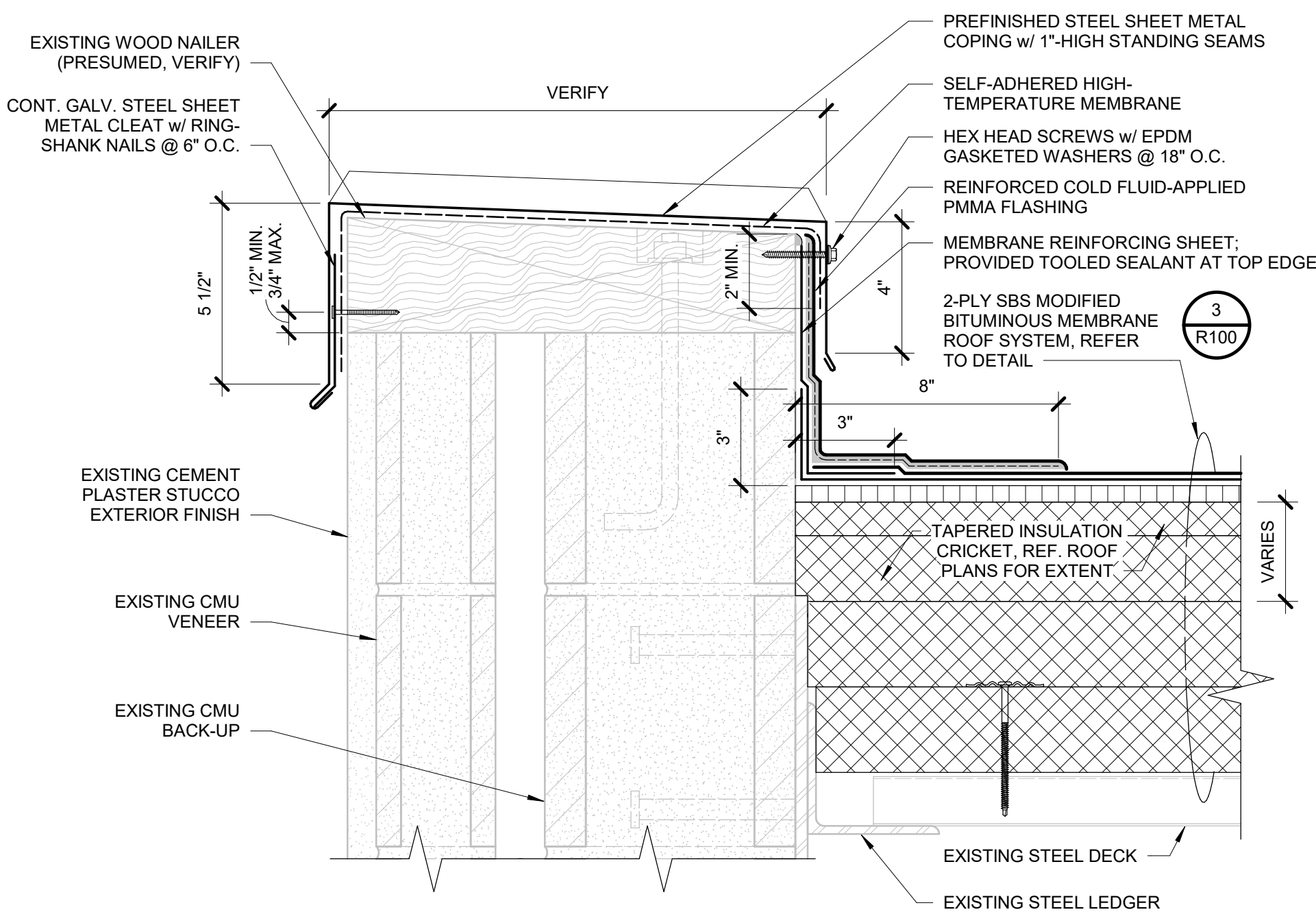
1 STEEP-SLOPE ROOF EAVE - ALTERNATES No. 1 & No. 3, AS INDICATED
R203 3" = 1'-0"



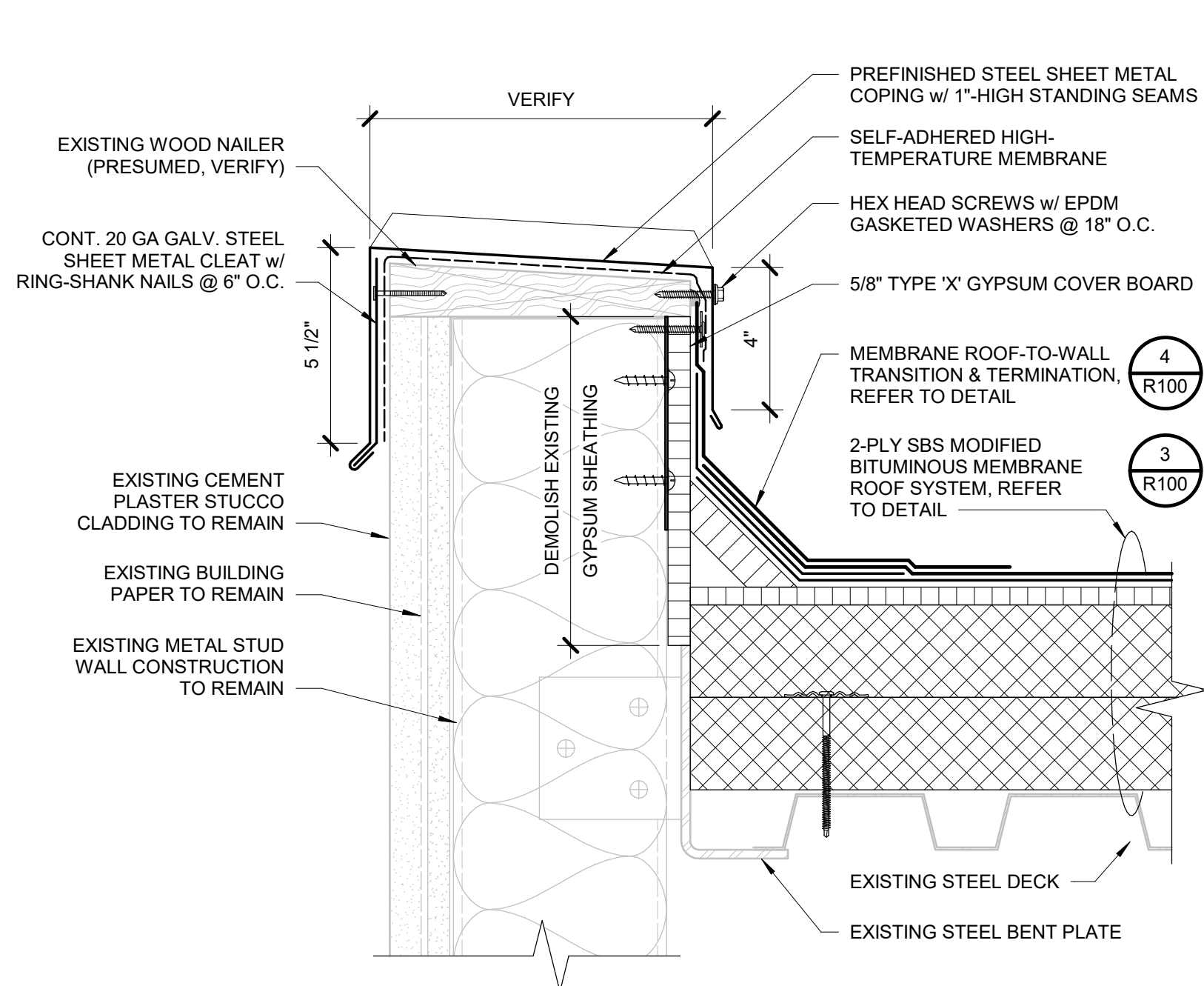
2 ROOF-TO-WALL AT ASCENDING WALL
R203 3" = 1'-0"



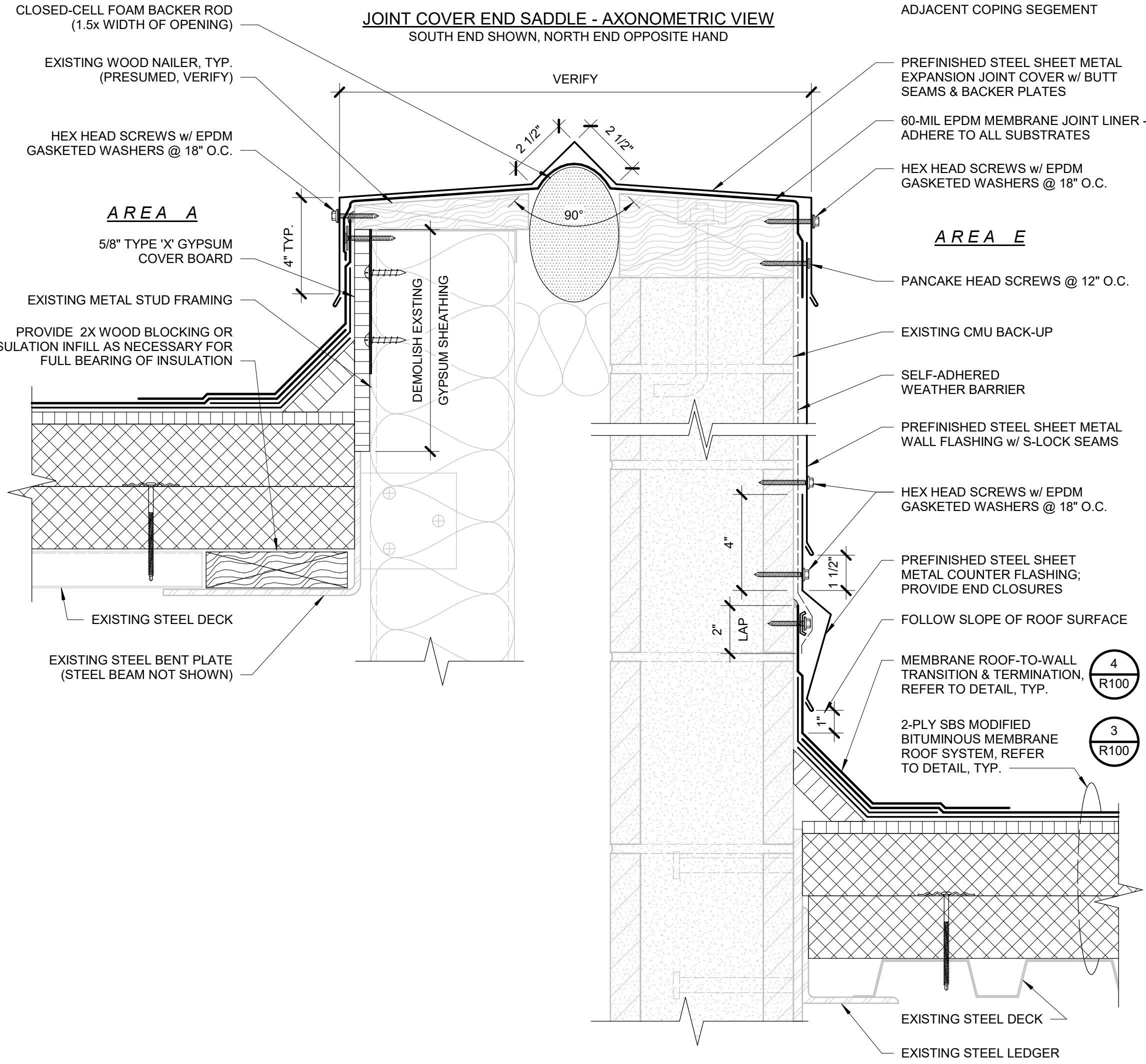
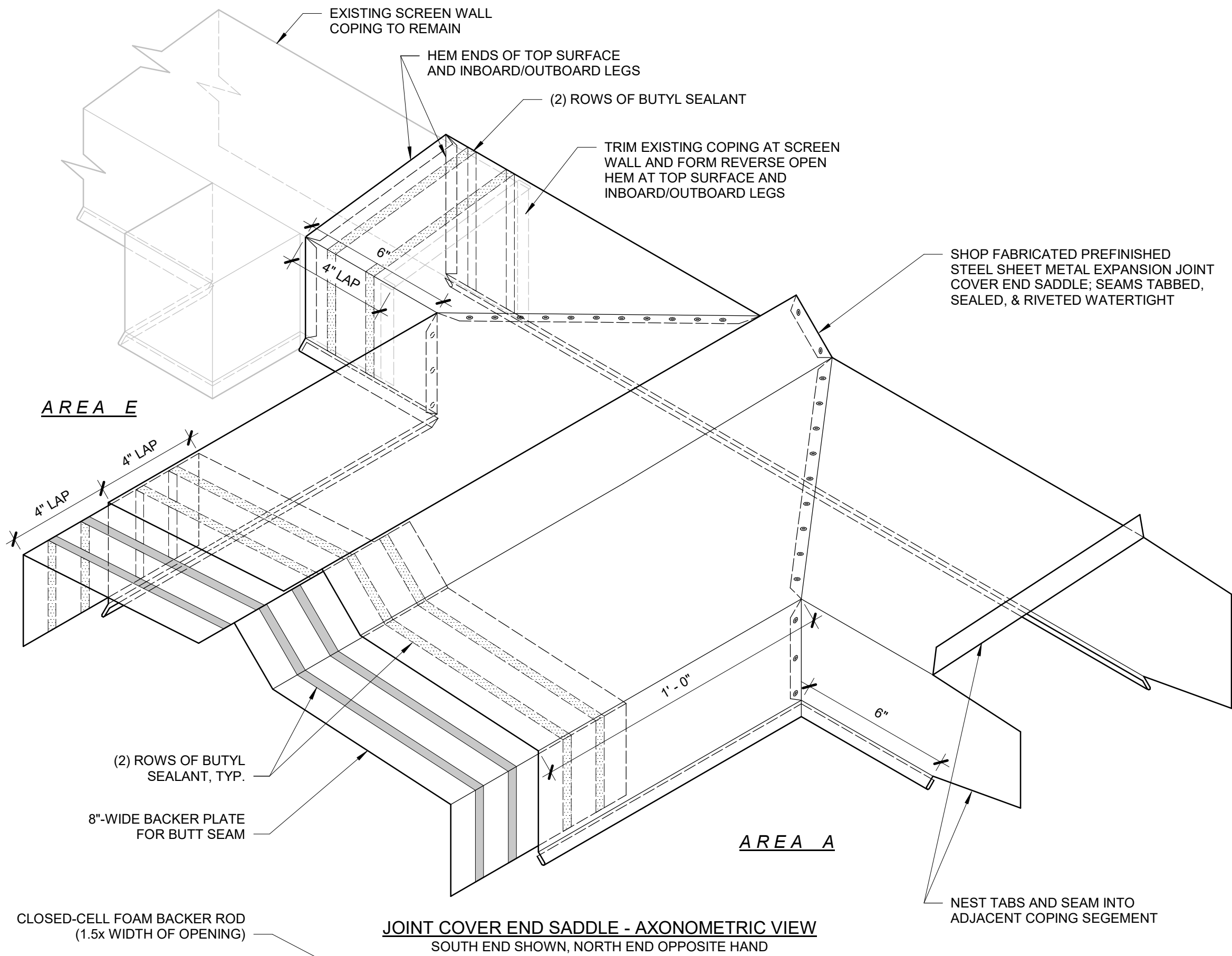
3 TYPICAL PARAPET FLASHING
R203 3" = 1'-0"



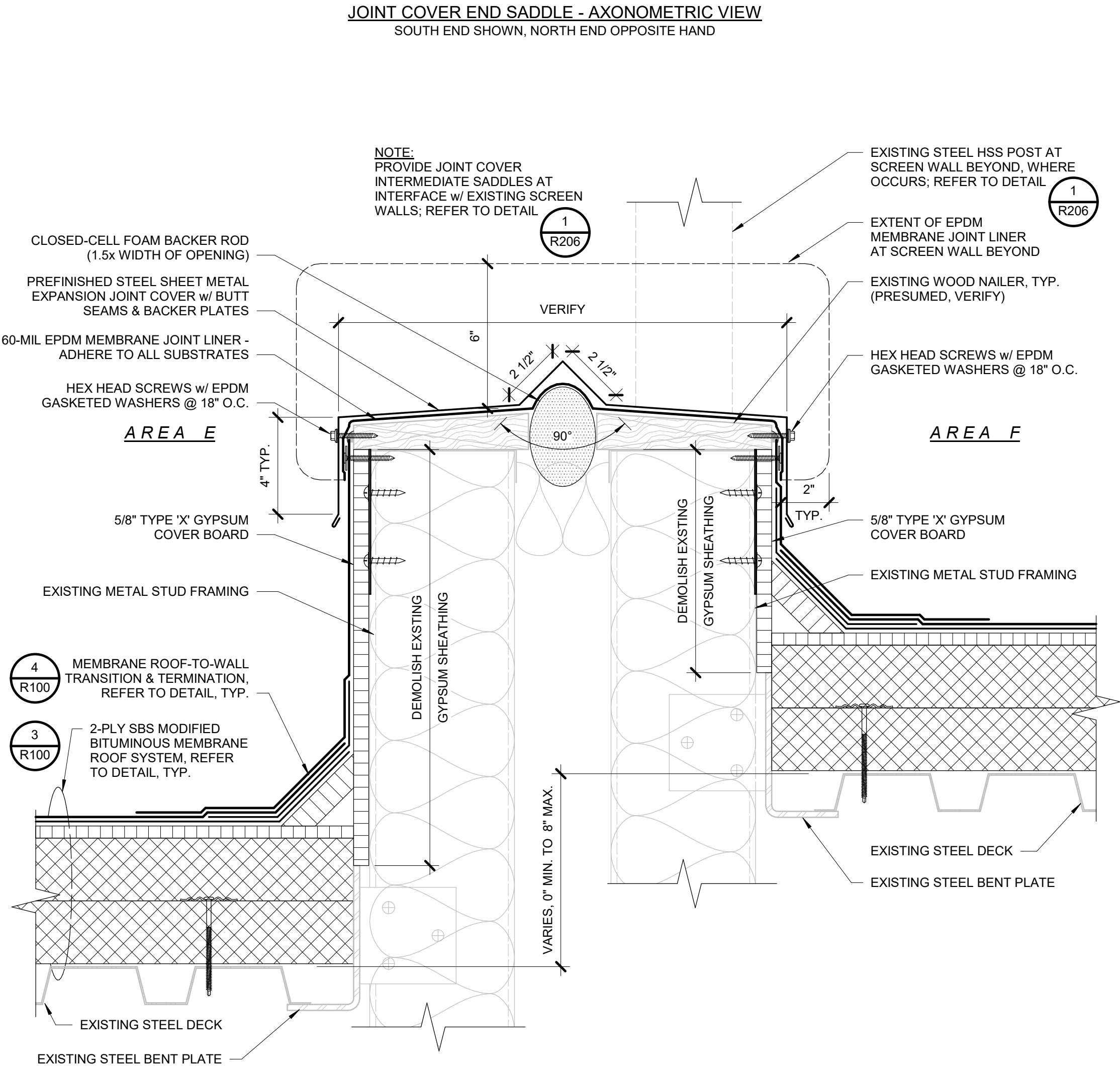
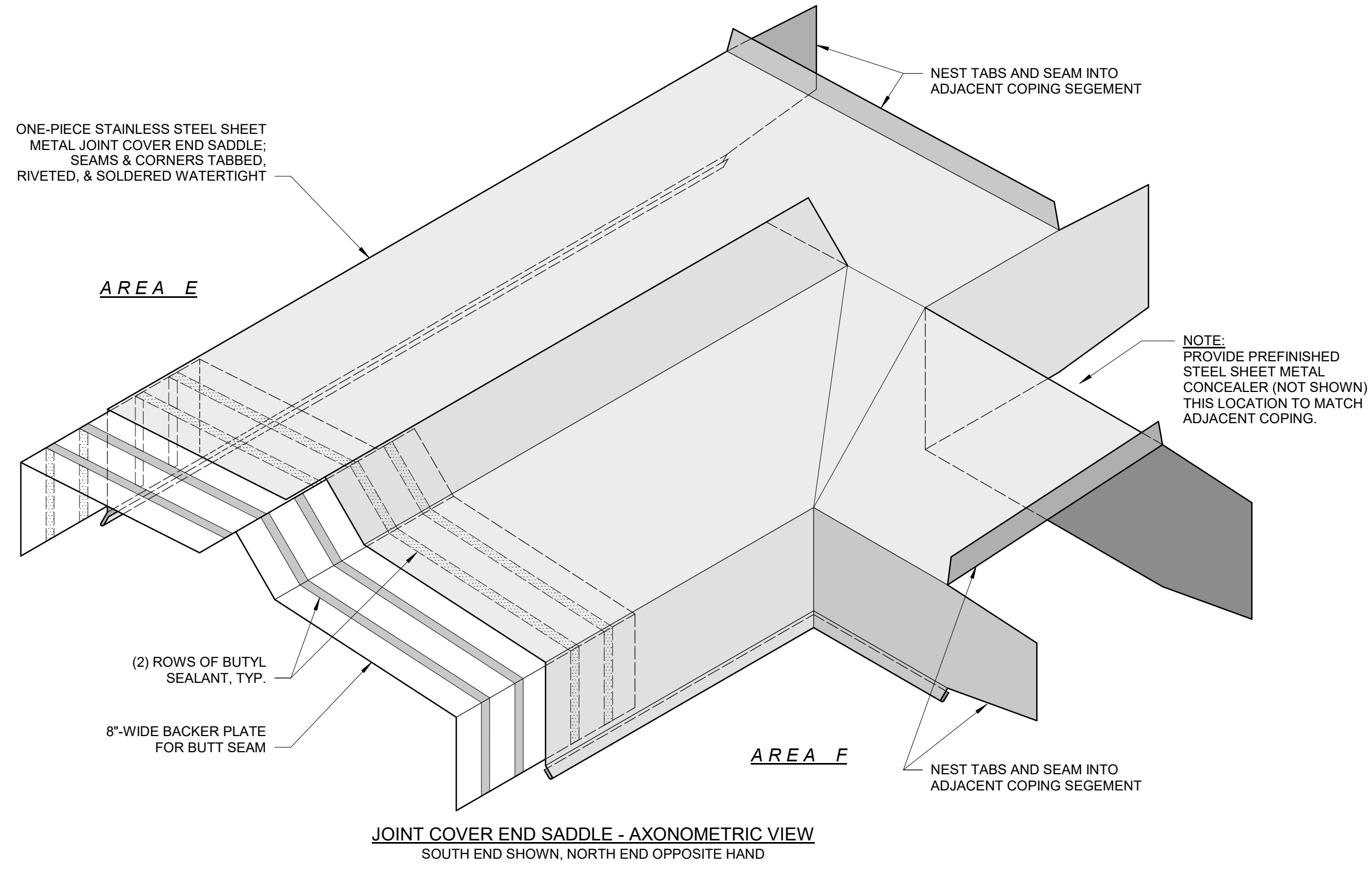
4 LOW PARAPET FLASHING
R203 3" = 1'-0"



5 PARAPET FLASHING AT STUD FRAMED WALL
R203 3" = 1'-0"



1 SEISMIC JOINT FLASHING - AREAS A & E
R204 3" = 1'-0"

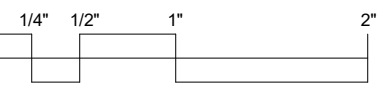


2 SEISMIC JOINT FLASHING - AREAS E & F
R204 3" = 1'-0"

CITY OF TUALATIN
TUALATIN POLICE DEPARTMENT
ROOF REPLACEMENT

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THIS BAR SCALE MEASURES 2 INCHES IN
LENGTH WHEN THE SHEET IS PRINTED
FULL-SIZE. IF THIS BAR IS NOT 2 INCHES
LONG, THE VIEWS ON THIS SHEET ARE
NOT TO THE SCALE INDICATED.

Date: JUNE 2025

Revisions:

Drawn: RSB
Checked: DEJ

PRC No.: R3538.01

Sheet No.:

R204

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- 2-STAGE WATER DAM IN EXISTING JOINT:
1. CLEAN JOINT FULL DEPTH, MIN. 8" OUTBOARD OF INTERFACING PARAPET;
 2. INJECT SEALANT ENSURING COMPLETE CONTACT ON ALL INNER SURFACES OF JOINT WITHOUT PIN HOLES AT INNER CORNERS;
 3. ALIGN PRIMARY DAM IN LINE WITH BUTYL BEAD AT JOGGLE CLEAT; ALIGN SECONDARY DAM FLUSH w/ LEADING EDGE OF HT-SAM

EXTEND CONCEALER PANEL UP TO LAP BEHIND COPING (EXISTING FLASHING AT SIM.) ABOVE

PAINT THIS PORTION TO MATCH ADJACENT EXISTING CEMENT PLASTER STUCCO FINISH

PROVIDE TOOLED APPLICATION OF POLYURETHANE SEALANT AT LEADING EDGES OF CONCEALER PANEL; PAINT TO MATCH SURROUNDING FINISHES

GALV. STEEL SHEET METAL SADDLE CONCEALER PANEL PREPARED IN ACCORDANCE w/ ASTM D6386 & SHOP PRIMED FOR FIELD PAINTING; SLIDE DOWN ENGAGING JOGGLE CLEATS ON INBOARD AND OUTBOARD SIDES OF PARAPET BELOW; LAP OVER AND RIVET TO COPING END SEGMENT TABS

COPING END SEGMENT: TAB TOP AND LEGS TO LAP BEHIND SADDLE CONCEALER PANEL

↑ STEP 3: COPING END SEGMENT, SADDLE CONCEALER, AND FIELD PAINTING

PAINT THIS PORTION TO MATCH ADJACENT COPING (MATCH EXISTING)

GALV. STEEL SHEET METAL JOGGLE CLEAT: SET IN BEAD OF BUTYL SEALANT; SECURE THROUGH BUTYL w/ PANCAKE HEAD SCREWS @ 8" O.C.; EXTEND UP TO LAP BEHIND COPING (EXISTING WALL FLASHING AT SIM.) ABOVE

SELF-ADHERED HIGH-TEMPERATURE MEMBRANE (HT-SAM); PROVIDE TOOLED APPLICATION OF MANUFACTURERS RECOMMENDED SEALANT AT TERMINATING EDGES AND LAPS

INBOARD SIDE

ONE-PIECE STAINLESS STEEL SADDLE FLASHING; SEAMS & CORNERS TABBED, RIVETED, & SOLDERED WATERTIGHT; MATCH PROFILE OF ADJACENT COPING

OUTBOARD SIDE

↑ STEP 1: HT-SAM, 2-STAGE WATER DAM, JOGGLE CLEATS

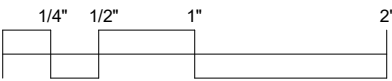
↑ STEP 2: STAINLESS STEEL SADDLE FLASHING

1 SADDLE FLASHING AT PARAPET / ASCENDING WALL INTERFACE
R205 3" = 1'-0"

**CITY OF TUALATIN
TUALATIN POLICE DEPARTMENT
ROOF REPLACEMENT**

Sheet Title:
ROOF DETAILS

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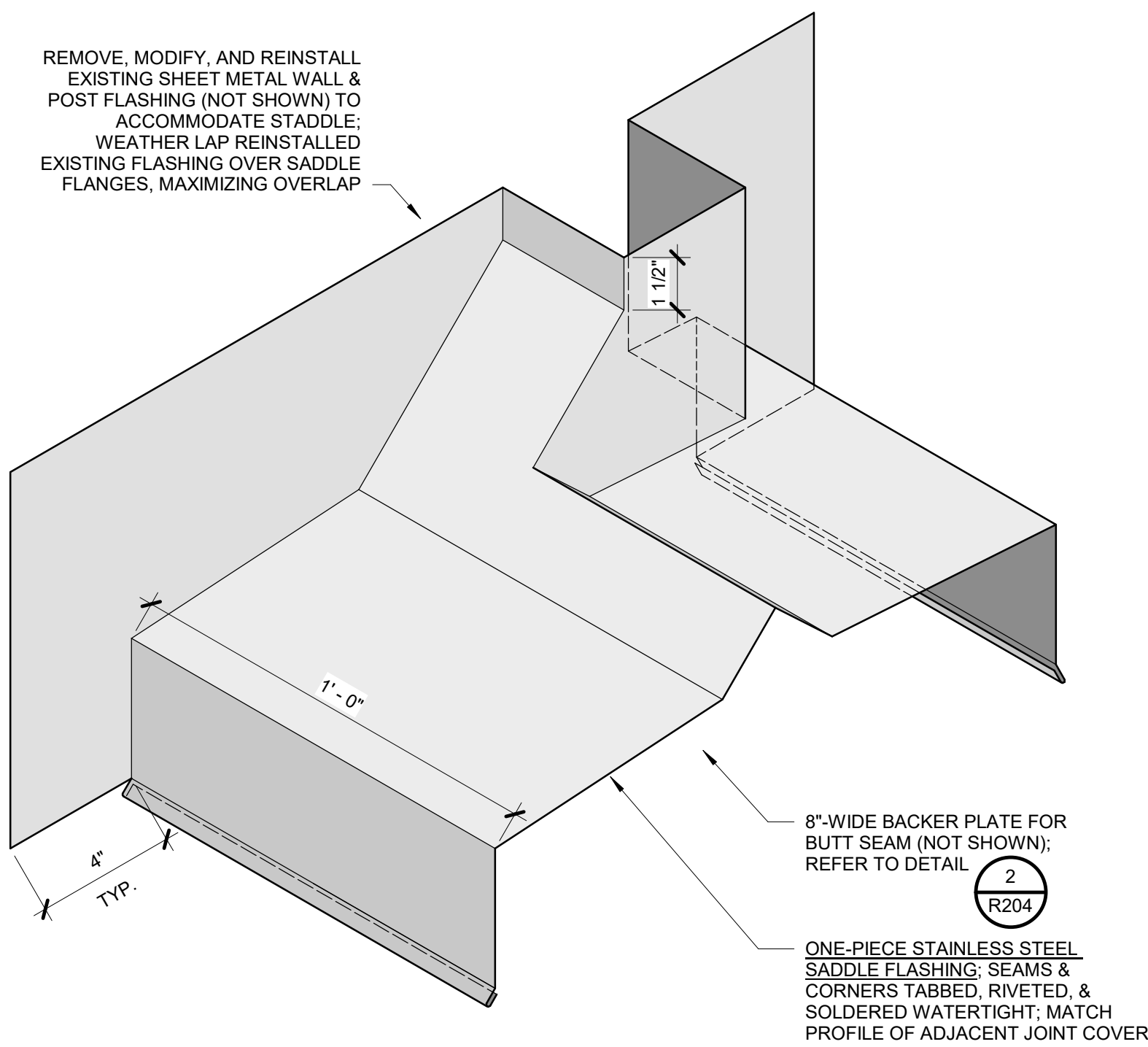
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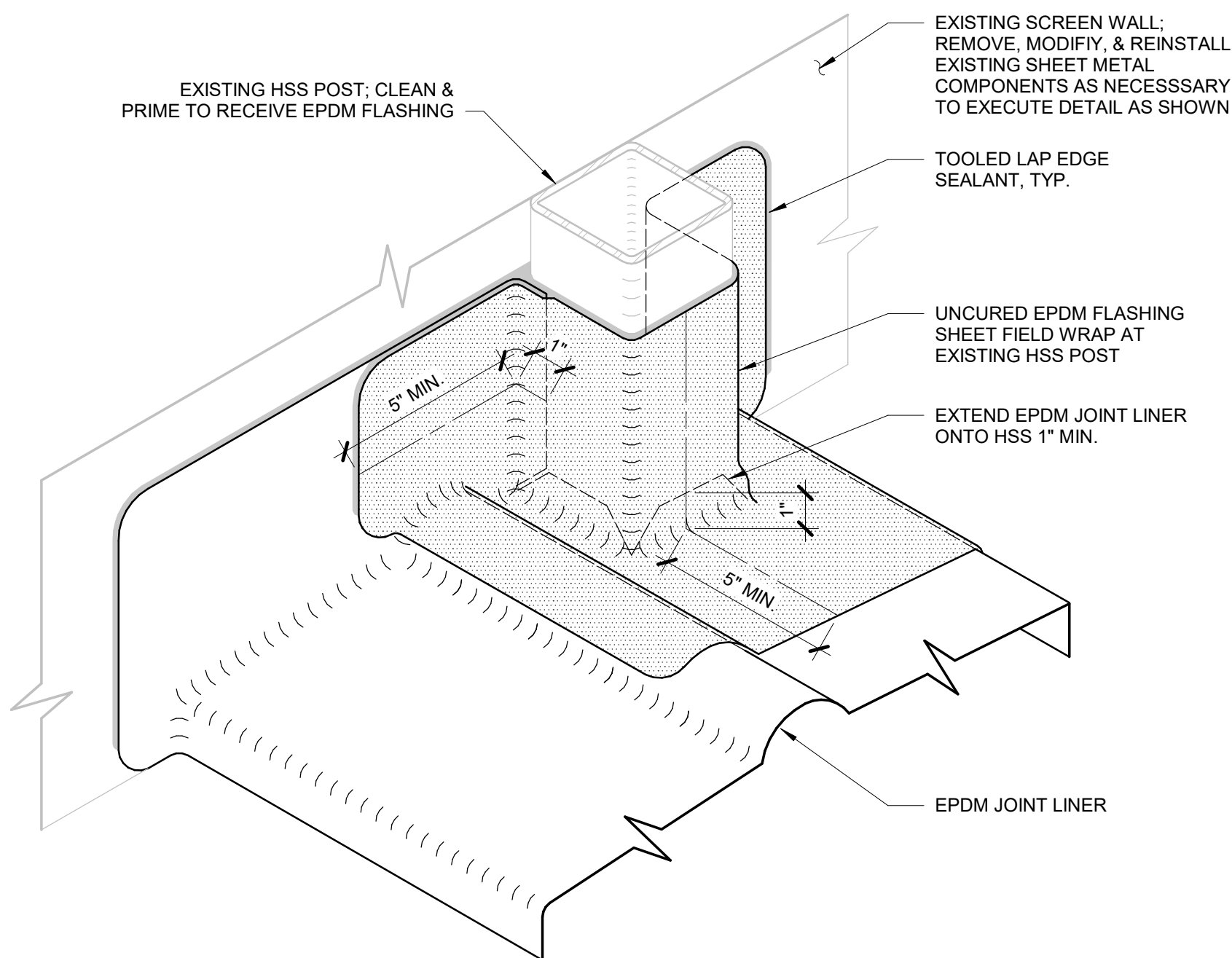
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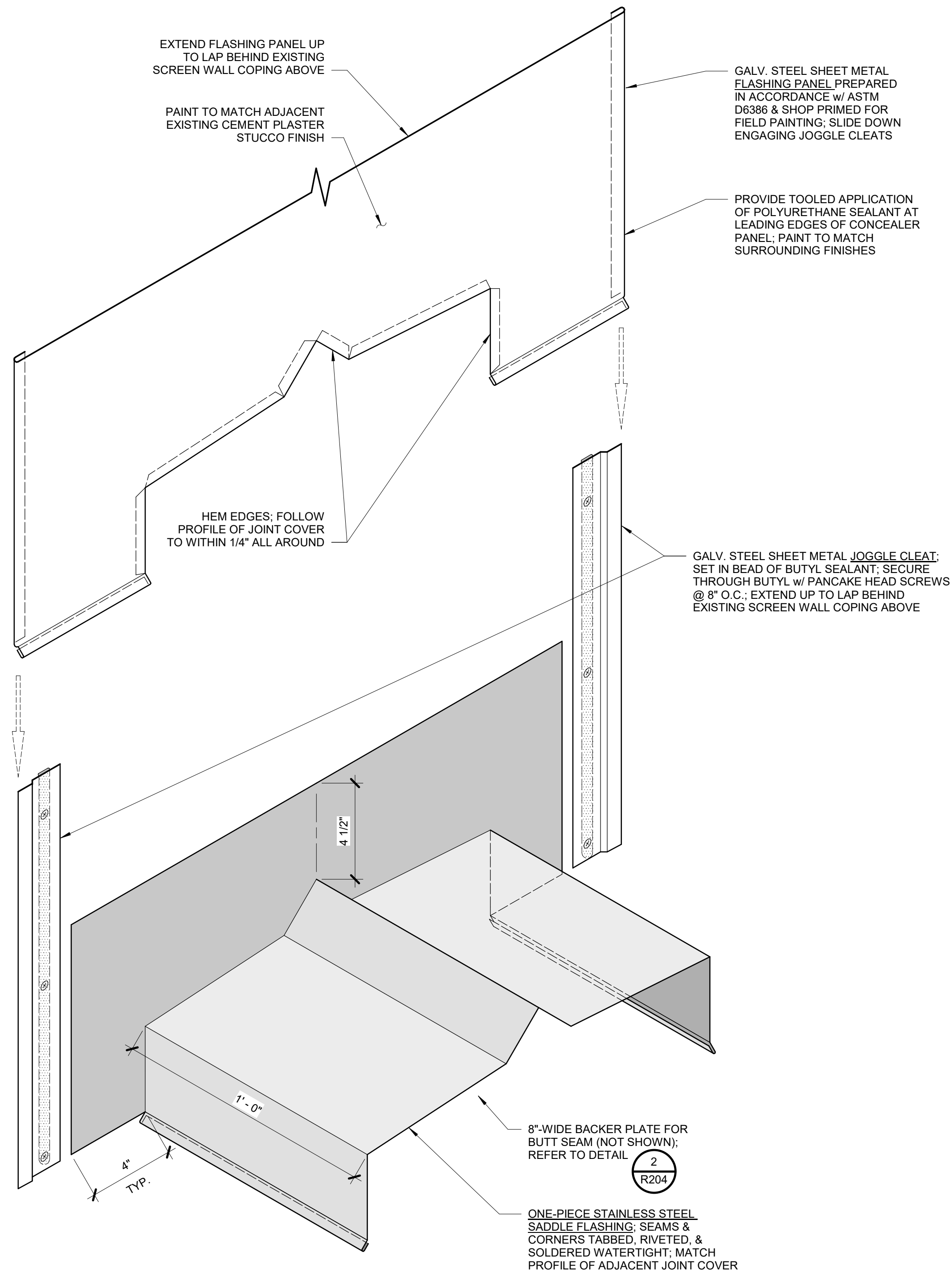
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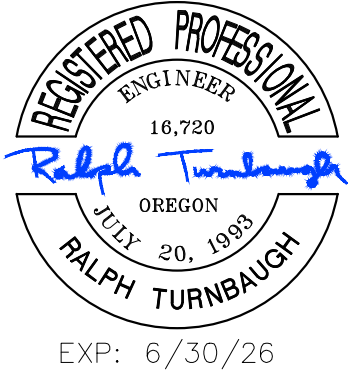
INTERMEDIATE SADDLE COPING AT SCREEN WALL (INBOARD SIDE) - AXONOMETRIC VIEW
SOUTH SIDE OF EXISTING NORTH SCREEN WALL SHOWN
NORTH SIDE OF EXISTING SOUTH SCREEN WALL OPPOSITE HAND



INTERMEDIATE JOINT LINER TERMINATION AT SCREEN WALL - AXONOMETRIC VIEW
SOUTH SIDE OF EXISTING NORTH SCREEN WALL SHOWN
NORTH SIDE OF EXISTING SOUTH SCREEN WALL OPPOSITE HAND



INTERMEDIATE SADDLE COPING AT SCREEN WALL (OUTBOARD SIDE) - AXONOMETRIC VIEW
NORTH SIDE OF EXISTING NORTH SCREEN WALL, SOUTH SIDE OF EXISTING SOUTH SCREEN WALL



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Tigard, Oregon 97223
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Fax: (503) 443-3700

GENERAL STRUCTURAL NOTES:

CODE REQUIREMENTS:
CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2022 OREGON STRUCTURAL SPECIALTY CODE, REFERENCED HEREAFTER AS IBC. DESIGN CRITERIA:
DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE IBC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS WERE USED FOR DESIGN:

ROOF LIVE LOAD: 20 PSF

GROUND SNOW LOAD Pg: 9 PSF
FLAT-ROOF SNOW LOAD Pf: 25 PSF
SNOW EXPOSURE FACTOR Ce: 1.0
SNOW IMPORTANCE FACTOR Ic: 1.20
THERMAL FACTOR Ct: 1.0

BASIC WIND SPEED (3-SEC GUST, ULTIMATE): 109 MPH
WIND EXPOSURE: B
WIND IMPORTANCE FACTOR Iw: 1.0
BUILDING RISK CATEGORY: IV
BUILDING TYPE: ENCLOSED

SEISMIC IMPORTANCE FACTOR Ie: 1.50
SITE CLASS: D(DEFAULT)
SDS = 0.66
SEISMIC DESIGN CATEGORY: D
SEISMIC RISK CATEGORY: IV

EXISTING CONDITIONS:
THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO THE START OF THE WORK.

TEMPORARY CONDITIONS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE NEW AND EXISTING STRUCTURES AND WALLS DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.

SUBMITTALS:
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

WOOD FRAMING MATERIALS.
FASTENERS,
MISCELLANEOUS METAL FRAMING.

IF THE SHOP DRAWINGS DIFFER FROM, OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BE CLEARLY IDENTIFIED. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE ENGINEER.

PROVIDE THE SUBMITTALS DIGITALLY (PDF FORMAT) TO THE ENGINEER FOR REVIEW. NECESSARY CORRECTIONS/COMMENTS WILL BE NOTED AND RETURNED.

UNISTRUT:
TYPICAL INSTALLATION AND ATTACHMENTS PER MANUFACTURER'S RECOMMENDATIONS.

ACCEPTABLE STRUT VARIANTS INCLUDE 'KO', 'HS', 'H3', 'WT', 'T', AND 'SL' SERIES.

CARPENTRY:
SAWN LUMBER DESIGN IS BASED ON THE NATIONAL DESIGN SPECIFICATION, LATEST EDITION. SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. UNLESS NOTED OTHERWISE ALL LUMBER SHALL BE 19% AT TIME OF FABRICATION AND DRIED TO A MAXIMUM OF 15% BEFORE INSTALLATION OF GYP. BOARD AND OF BRICK VENEER AND VERIFIED BY THE GENERAL CONTRACTOR. ALL WOOD IN PERMANENT CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED UNLESS AN APPROVED BARRIER IS PROVIDED. GRADES SHALL BE AS FOLLOWS DF-L #2 UNLESS NOTED OTHERWISE ON THE PLANS. ALL LUMBER AND SHEATHING SHALL BE FIRE TREATED, UNLESS OTHERWISE NOTED ON THE PLANS.

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS AND ATTACHED PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS UNLESS NOTED OTHERWISE. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL FRAMING NAILS SHALL BE COMMON NAILS. NO BOX NAILS ALLOWED. FASTENERS AND ACCESSORIES IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT DIPPED GALVANIZED OR HAVE ZMAX COATING. ALL FASTENERS IN CONTACT WITH FIRE RETARDANT LUMBER MUST BE HOT-DIPPED GALVANIZED.

SHEATHING PANELS SHALL CONFORM TO THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1 OR PS 2, OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. SHEAR WALL SHEATHING SHALL BE BLOCKED WITH 2X FRAMING AT ALL PANEL EDGES. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL CONFORM TO IBC TABLE 2304.10.1.

MECHANICAL:
THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF ELECTRICAL EQUIPMENT, MECHANICAL, PLUMBING, FIRE SPRINKLER, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. ANY CONNECTIONS TO STRUCTURE NOT CONFORMING TO SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA), OR SPECIFICALLY DETAILED ON THE MECHANICAL ENGINEER'S DRAWINGS, SHALL BE DESIGNED IN ACCORDANCE OF THESE GENERAL NOTES, BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BEING PERFORMED, AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.

FLASHING AND WATERPROOFING:
ALL FLASHING AND WATERPROOFING SHALL BE PER THE 'R-SERIES' DRAWINGS BY PROFESSIONAL ROOF CONSULTANTS.

STRUCTURAL OBSERVATIONS:
STRUCTURAL OBSERVATIONS BY THE ENGINEER OF RECORD OR AN APPOINTED REPRESENTATIVE SHALL BE REQUIRED AT THE FOLLOWING TIMES DURING CONSTRUCTION:

AFTER RE-SETTING OF MECHANICAL UNITS ON RAISED CURBS, PRIOR TO COVERING WITH ANY ROOFING OR FLASHING MATERIALS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER (4) FOUR DAYS PRIOR TO THE COMPLETION POINT REQUIRING SITE OBSERVATION.

NOTE: STRUCTURAL OBSERVATIONS BY THE ENGINEER OF RECORD IN NO WAY RELIEVES THE SPECIAL INSPECTOR OR BUILDING OFFICIAL OF THEIR INSPECTION RESPONSIBILITIES.

INSPECTION:
SPECIAL INSPECTIONS: IN ACCORDANCE WITH SECTION 1704 OF THE IBC AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS. SPECIAL INSPECTIONS ARE TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY EMPLOYED BY THE OWNER FOR THE FOLLOWING AREAS:

1. NO STRUCTURAL SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT.

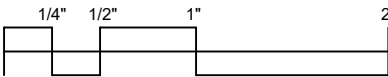
THE CONTRACTOR AND SPECIAL INSPECTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY ITEM NOT COMPLYING WITH THE PROJECT SPECIFICATIONS AND/OR APPLICABLE CODES BEFORE PROCEEDING WITH ANY WORK INVOLVING THAT ITEM. THE ENGINEER OF RECORD WILL REVIEW THE ITEM AND DETERMINE ACCEPTABILITY. IF WORK INVOLVING THAT ITEM PROCEEDS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD THEN THE WORK WILL BE CONSIDERED NON-COMPLIANT.

USE OF DOCUMENTS:
USE OF THESE DOCUMENTS IS LIMITED EXCLUSIVELY TO THIS PROJECT. TM RIPPEY CONSULTING ENGINEERS SHALL NOT BE LIABLE OR RESPONSIBLE FOR USE OF THESE DOCUMENTS OUTSIDE OF THIS PROJECT, OR FOR MODIFICATION TO THESE DOCUMENTS MADE BY OTHERS, WITHOUT THE EXPRESS WRITTEN CONSENT OF TM RIPPEY CONSULTING ENGINEERS.

CITY OF TUALATIN
TUALATIN POLICE DEPARTMENT
ROOF REPLACEMENT

Sheet Title:
STRUCTURAL GENERAL NOTES

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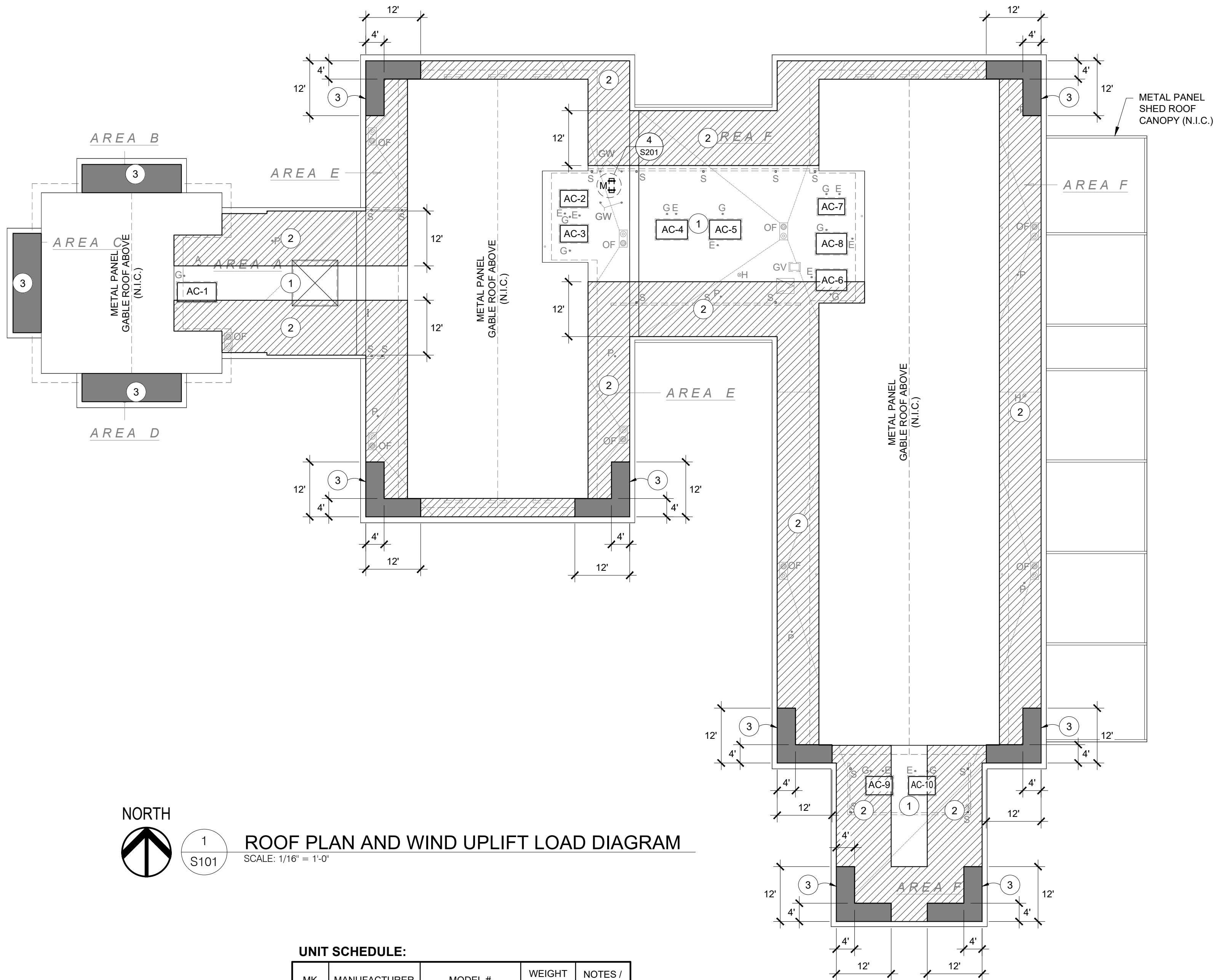
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BID SET



1
S101
ROOF PLAN AND WIND UPLIFT LOAD DIAGRAM
SCALE: 1/16" = 1'-0"

UNIT SCHEDULE:

MK	MANUFACTURER	MODEL #	WEIGHT (LBS MAX.)	NOTES / CAPACITY
AC-1	TRANE	YSJ150A350M3DOD	1,500	12.5 T
AC-2	CARRIER	48FCDA04A2A5	700	3 T
AC-3	CARRIER	48FCDA04A2A	700	3 T
AC-4	CARRIER	48TJE006-511QE	800	5 T
AC-5	CARRIER	48TJE005-511QE	700	4 T
AC-6	CARRIER	48TJD008	900	7.5 T
AC-7	CARRIER	48TJE005-511QE	700	4 T
AC-8	CARRIER	48TJD008-521QE	900	7.5 T
AC-9	CARRIER	48KCEA05A2A5	700	4 T
AC-10	CARRIER	48TJE005-511QE	700	4 T

LEGEND:

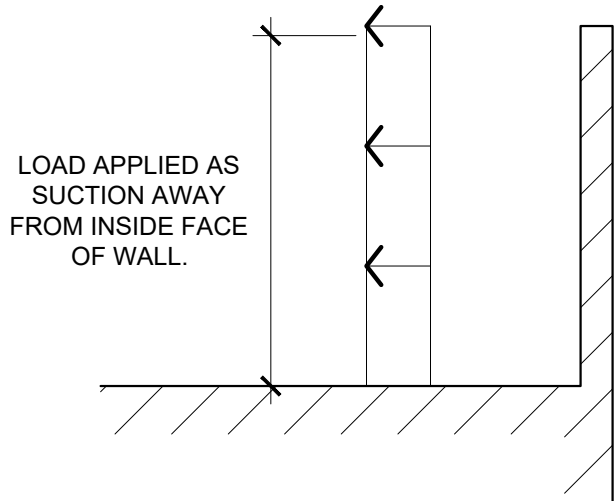
- 1
S201
AC-#
EXISTING MECHANICAL ROOF TOP UNIT ON EXISTING CONTINUOUS PERIMETER CURB WITH NEW HEIGHT EXTENSION. SEE SCHEDULE FOR MAX. WEIGHT
- 2
S201
EXISTING ACCESS LADDER HATCH ON NEW CURB EXTENSION (BASE-BID), NEW LADDER-UP GRAB BAR (ALTERNATE No. 2), & NEW GUARDRAILS w/ SELF-CLOSING GATE (ALTERNATE No. 2)
- 3
S201
GV
EXISTING CURBED GRAVITY VENT WITH NEW HEIGHT EXTENSION
- 4
S201
MI
EXISTING CONDENSER / HEAT PUMP UNIT ON NEW PLATFORM CURB

NOTE:
LIST IS COMPREHENSIVE FOR ENTIRE PROJECT -
NOT ALL ITEMS PERTAIN TO THIS SHEET -
REFERENCE R-SERIES DRAWINGS FOR
ADDITIONAL INFORMATION

ROOF WIND UPLIFT LOADS

ROOF WIND UPLIFT (psf)					WALL (psf) SEE 2/S101	
ZONE 1'	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	
16.0	27.2	36.9	51.3	17.6	22.4	

- NOTES
- CODE: ASCE 7-16 CH. 30.
 - BASIC WIND SPEED (3-SEC. GUST) = 109 MPH
 - RISK CATEGORY: IV
 - WIND EXPOSURE: B
 - LOADS ARE AT ULTIMATE (LRFD) LEVEL.
 - MULTIPLY VALUES BY 0.6 TO OBTAIN ALLOWABLE STRESS (ASD) LEVEL LOADS.
 - UPLIFT VALUES BASED ON TRIBUTARY AREA OF 10 SQ. FT.
 - WALL ZONE 5 IS THOSE AREAS WITHIN 6' OF BUILDING CORNERS. ZONE 4 IS THE REMAINING WALL AREAS.

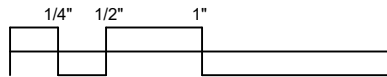


2
S101
PARAPET WALL WIND LOAD
25002.06-01
SCALE: N.T.S.

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TUALATIN POLICE DEPARTMENT
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ROOF WIND UPLIFT LOAD DIAGRAM

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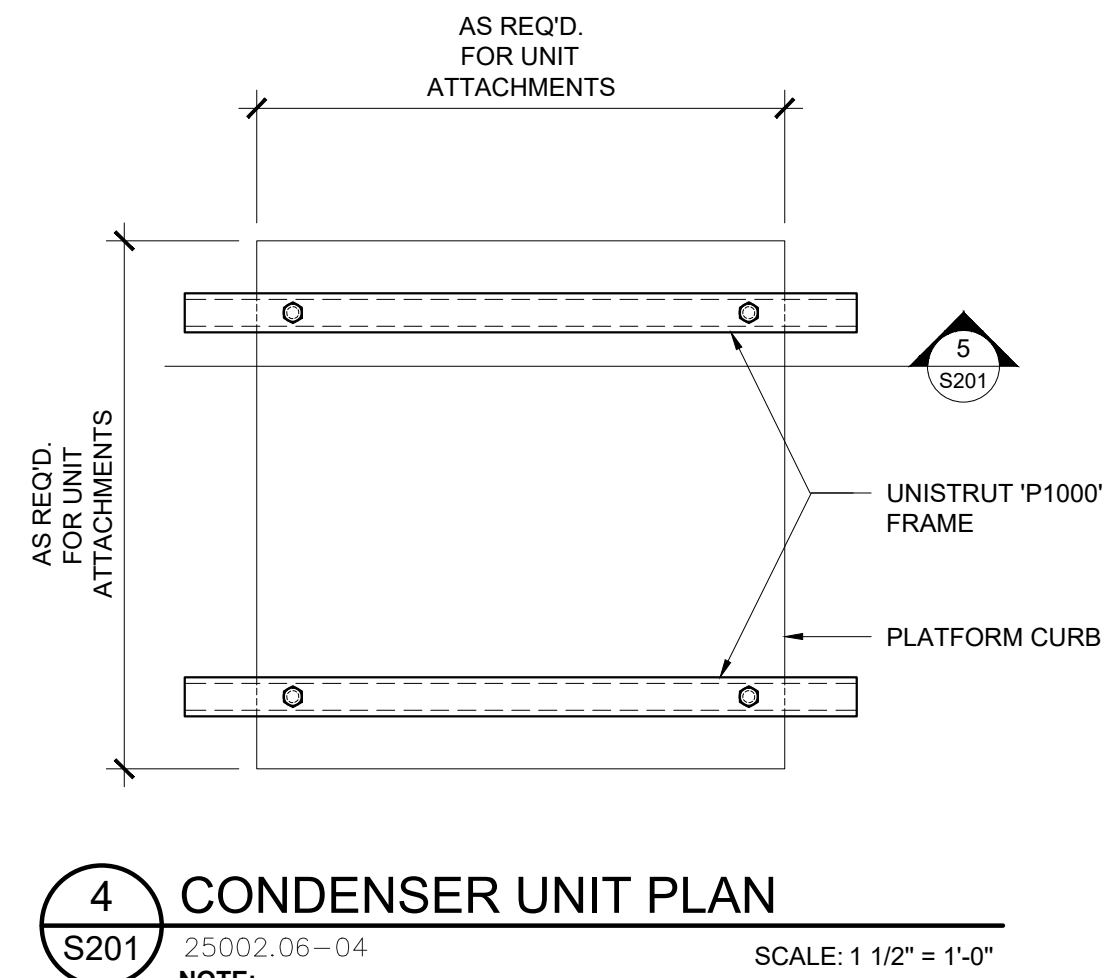
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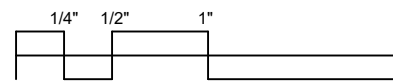
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