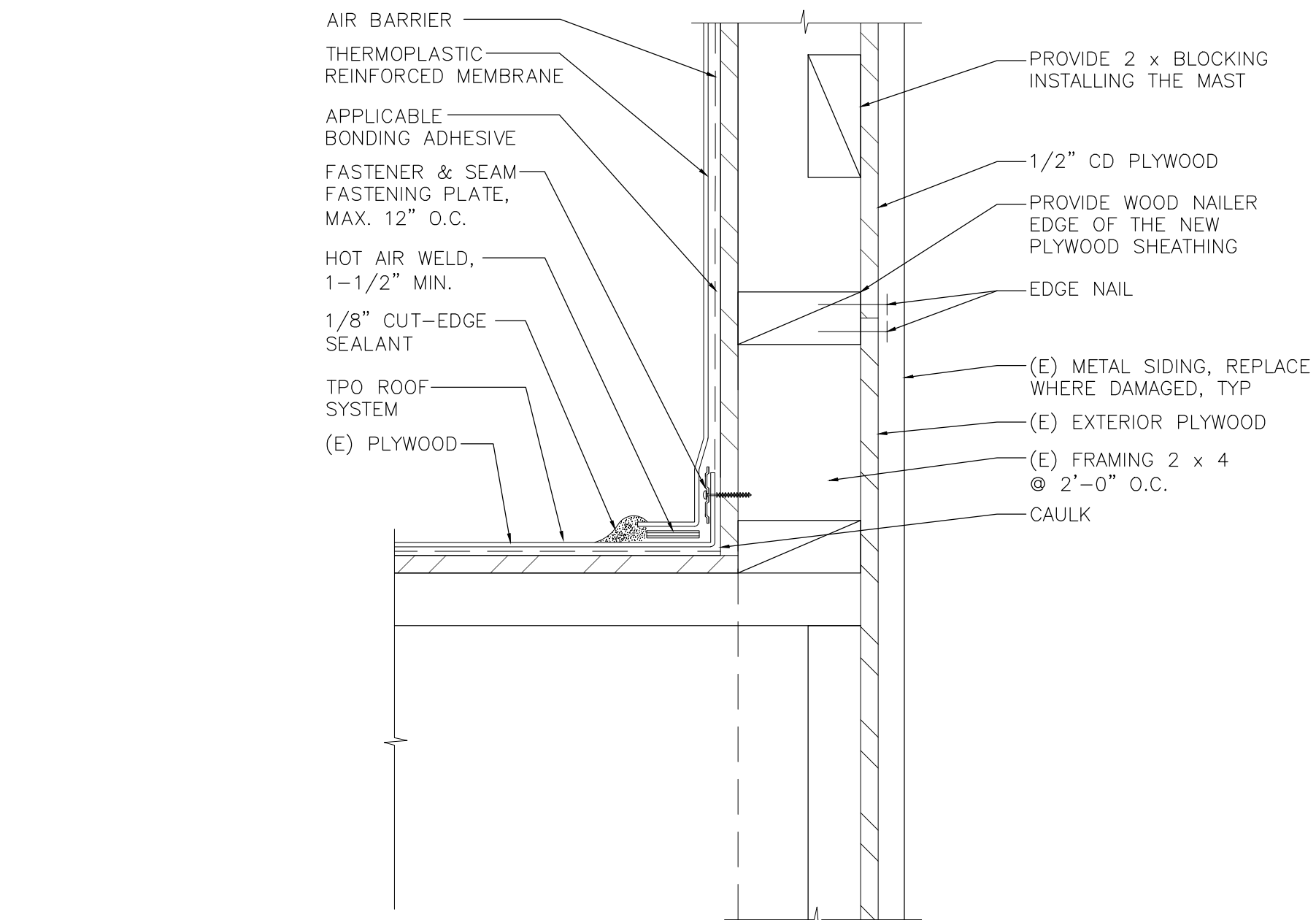
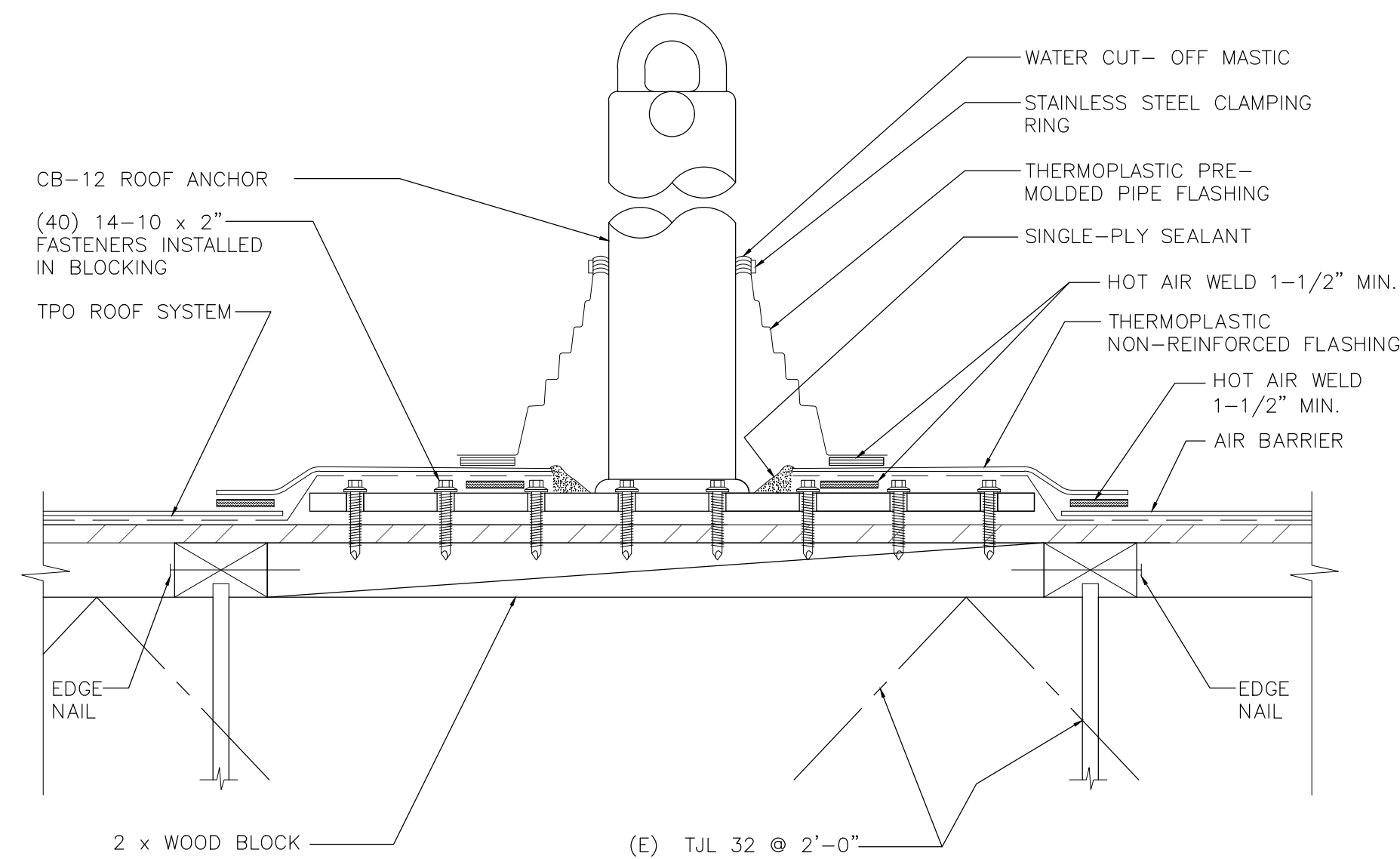




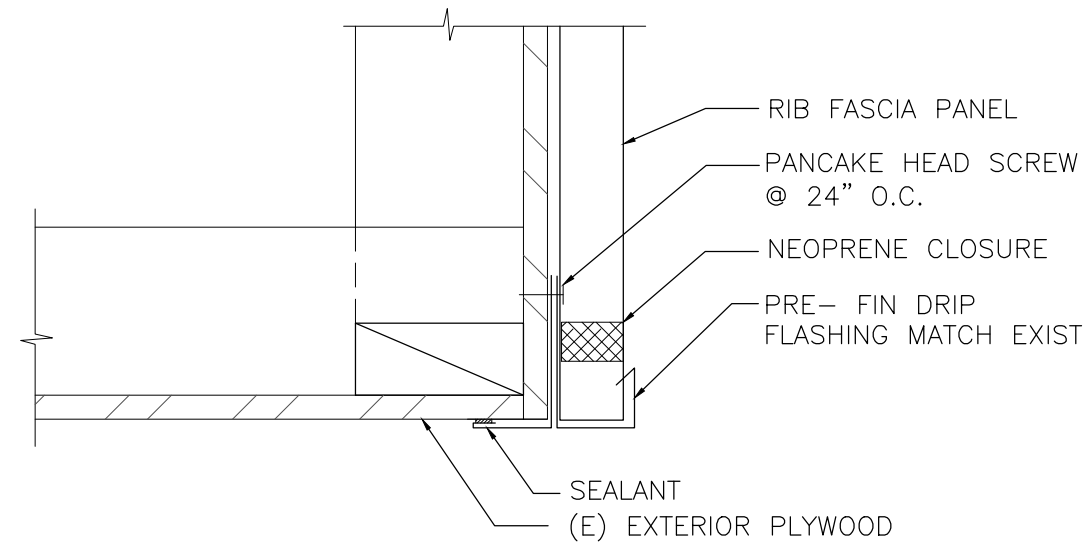
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3" = 1'-0"	R0-08_900	A3.0D	A3.1D
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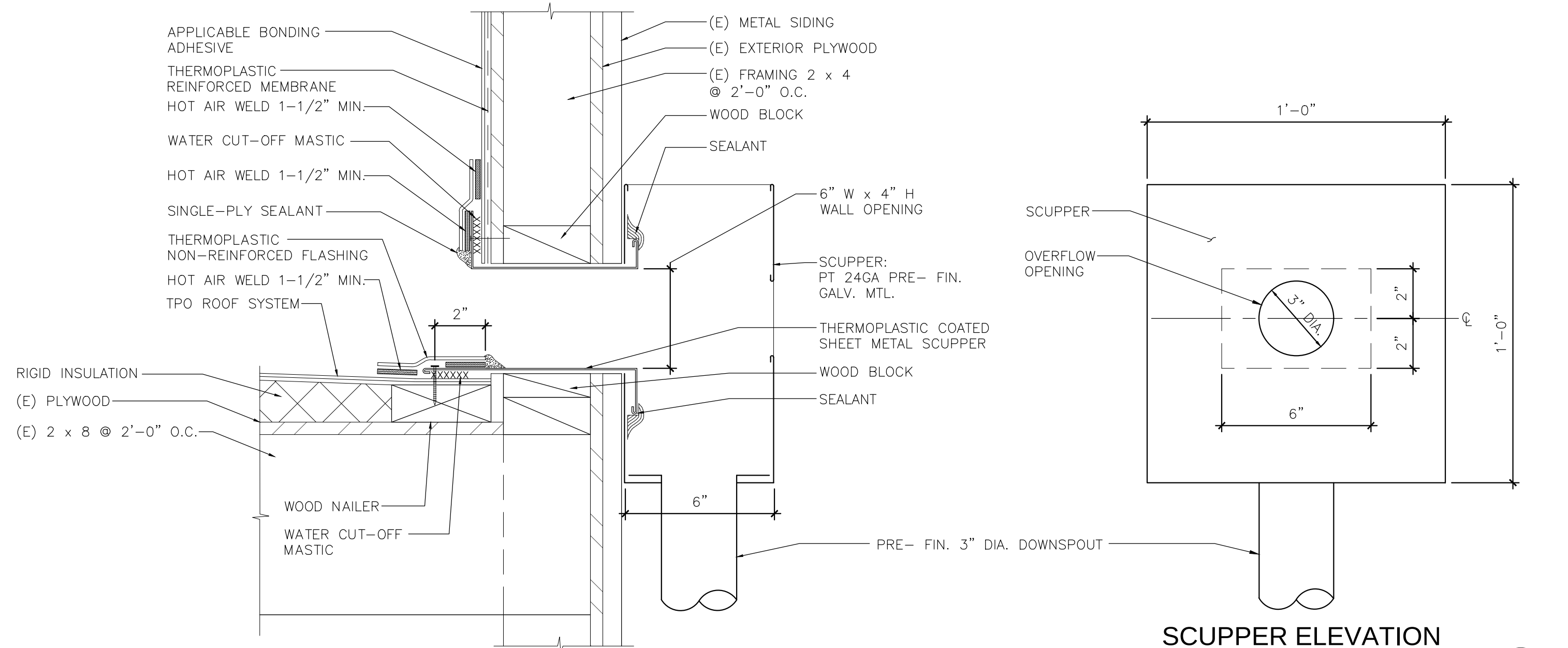
ROOFTOP ANCHOR

3" = 1'-0"	RO-11_900	A2.0D	A3.0D
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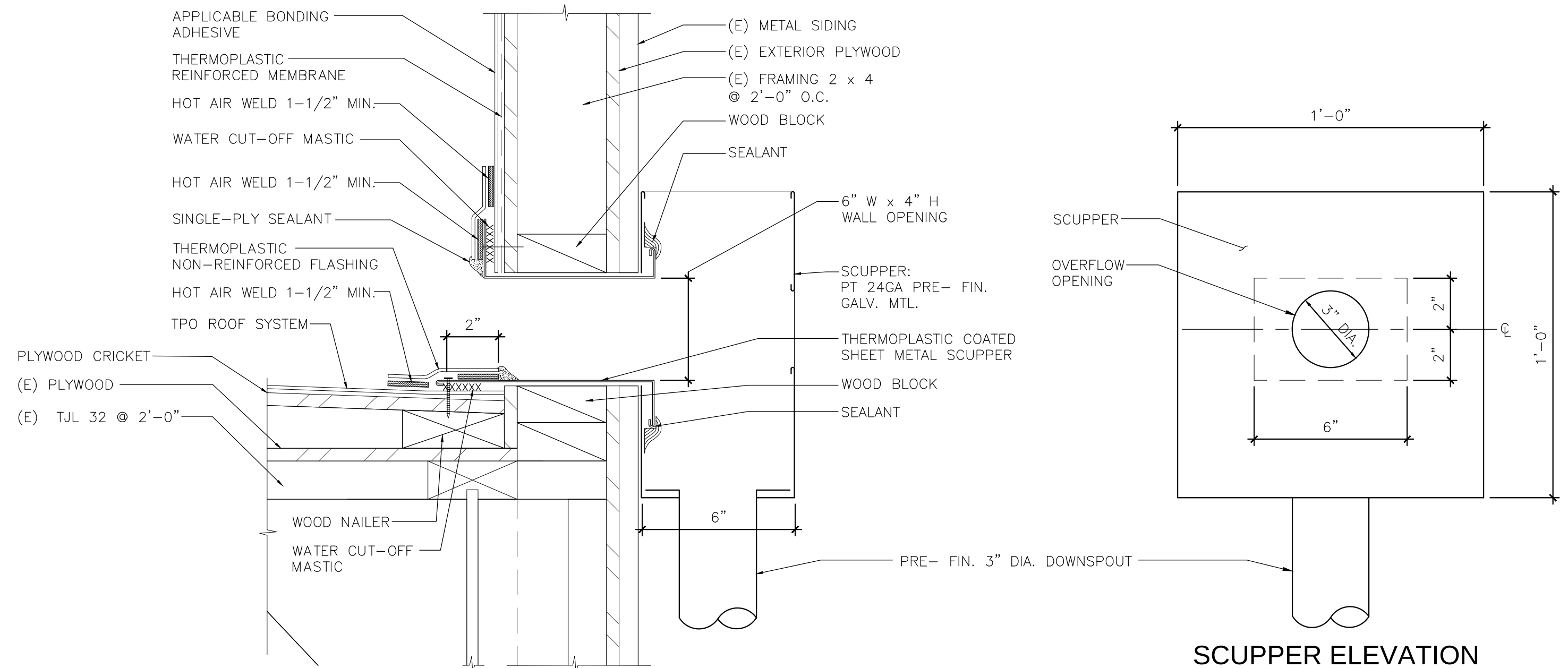
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3" = 1'-0"	RO-16_900	A3.0D	A3.1D
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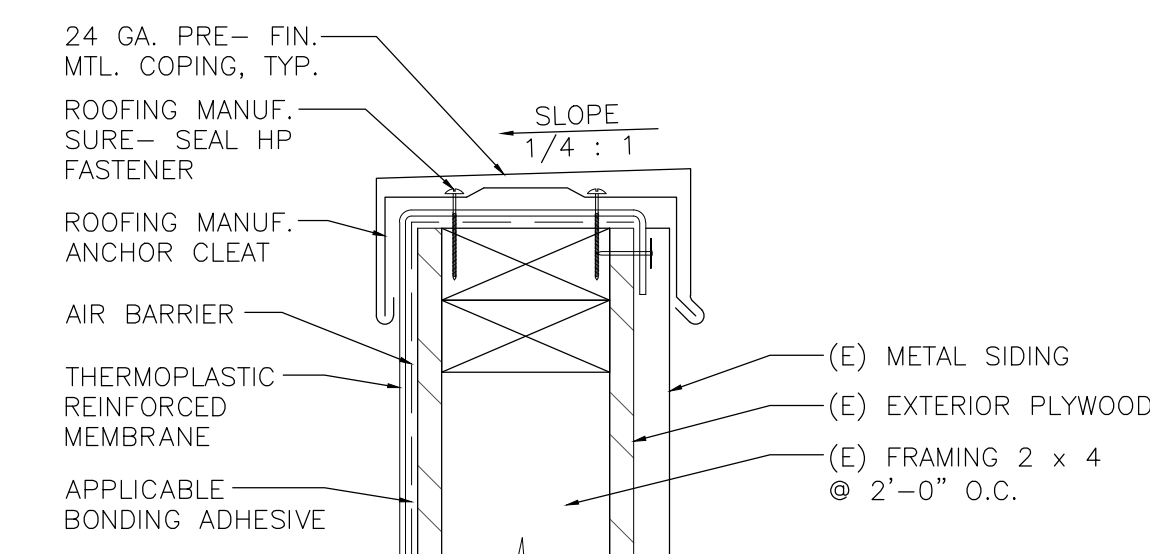
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3" = 1'-0"	R0-10_900	A3.0D	A3.1D
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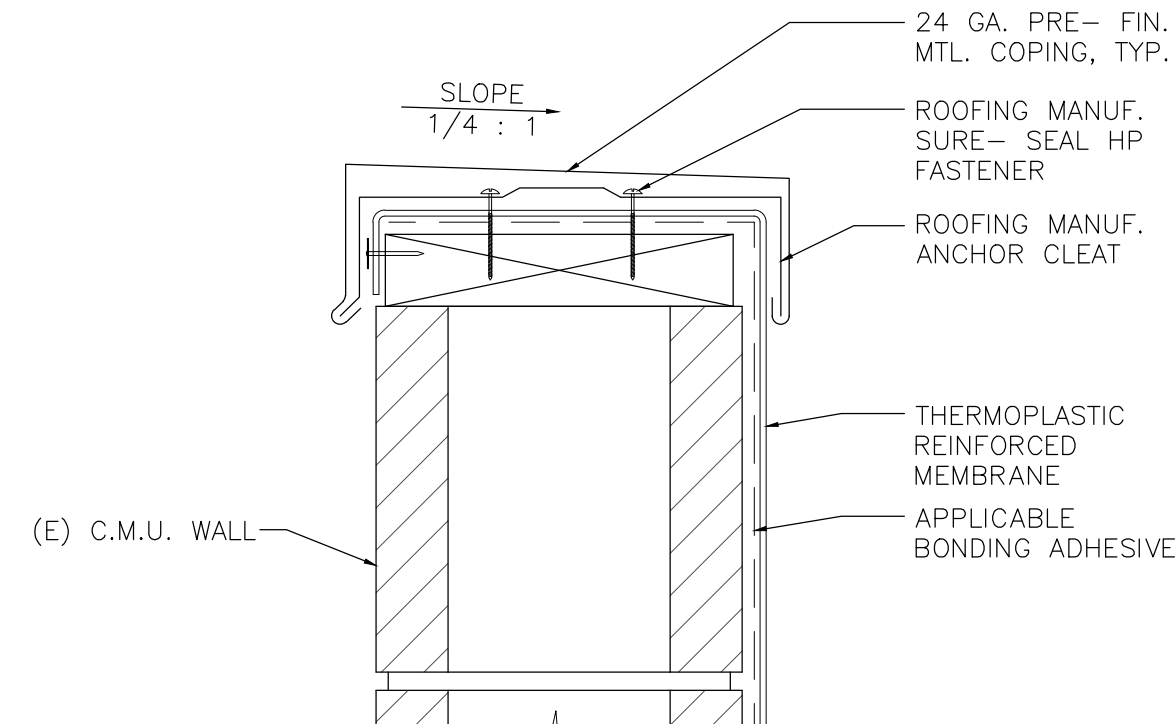
ENLARGED UPPER ROOF SCUPPER

3" = 1'-0"	R0-13_900	A3.0D	A3.1D
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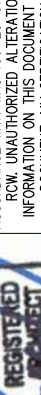
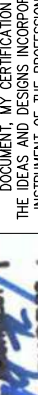
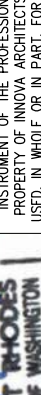
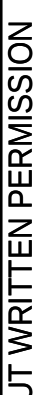
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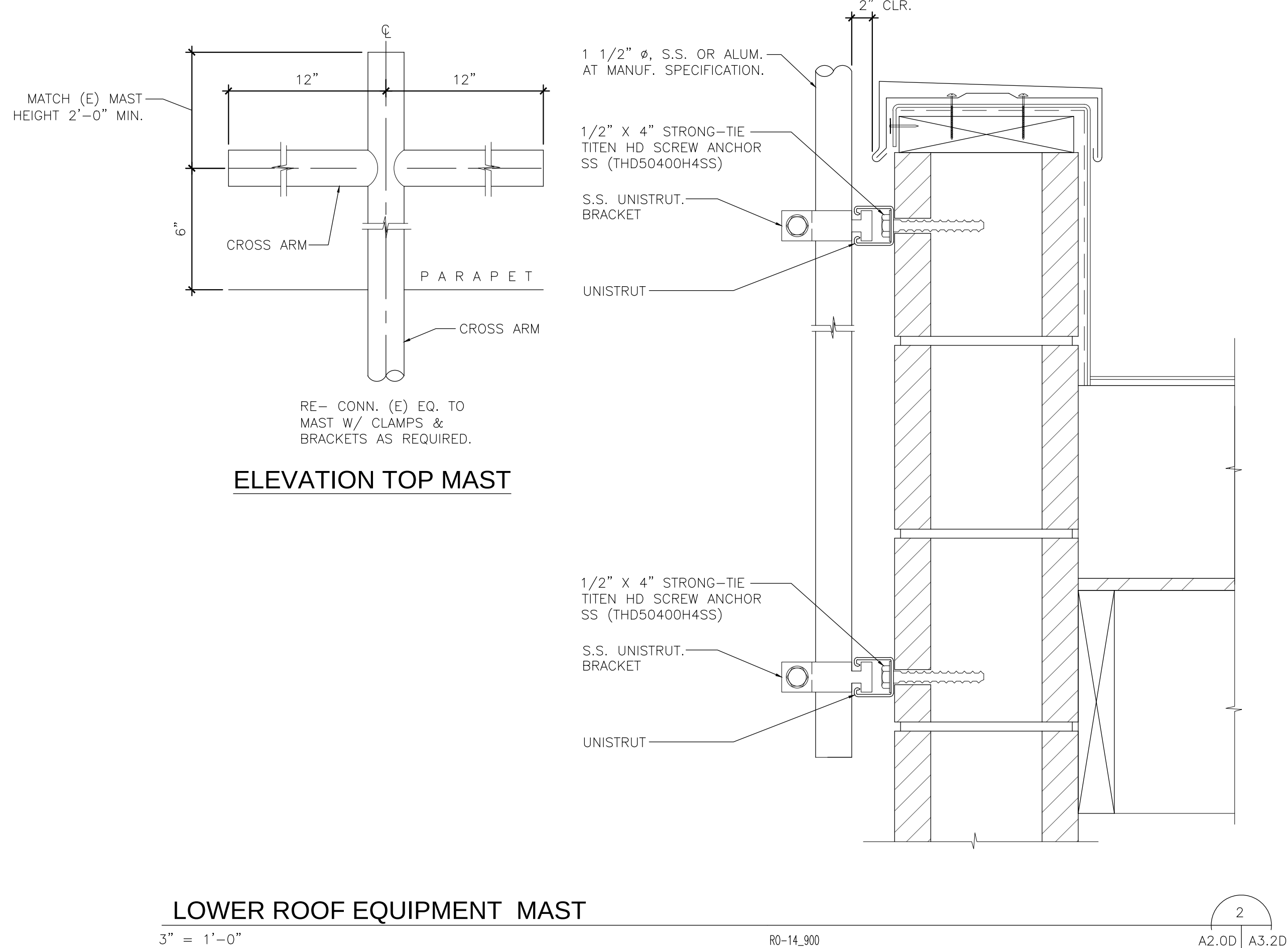
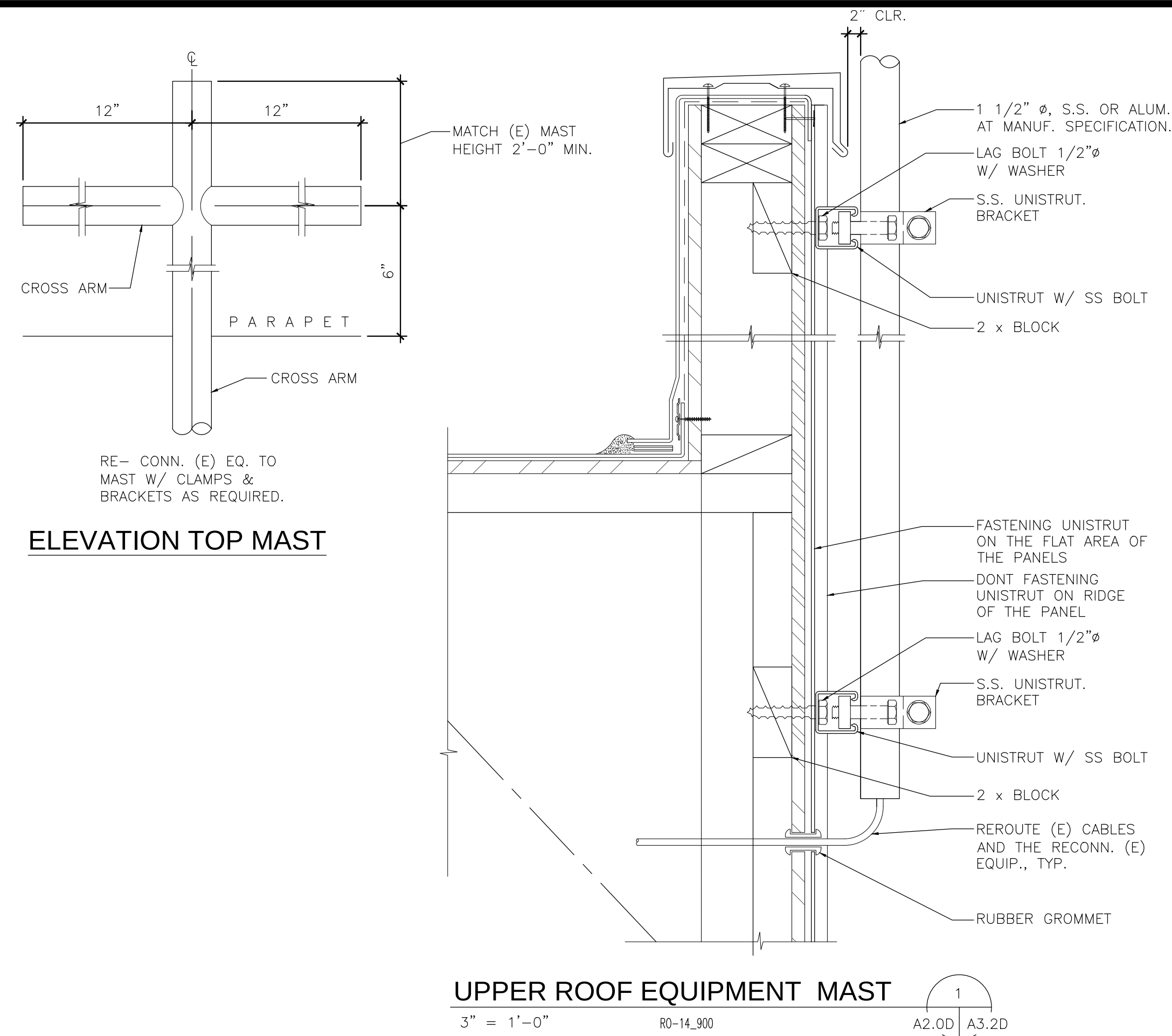
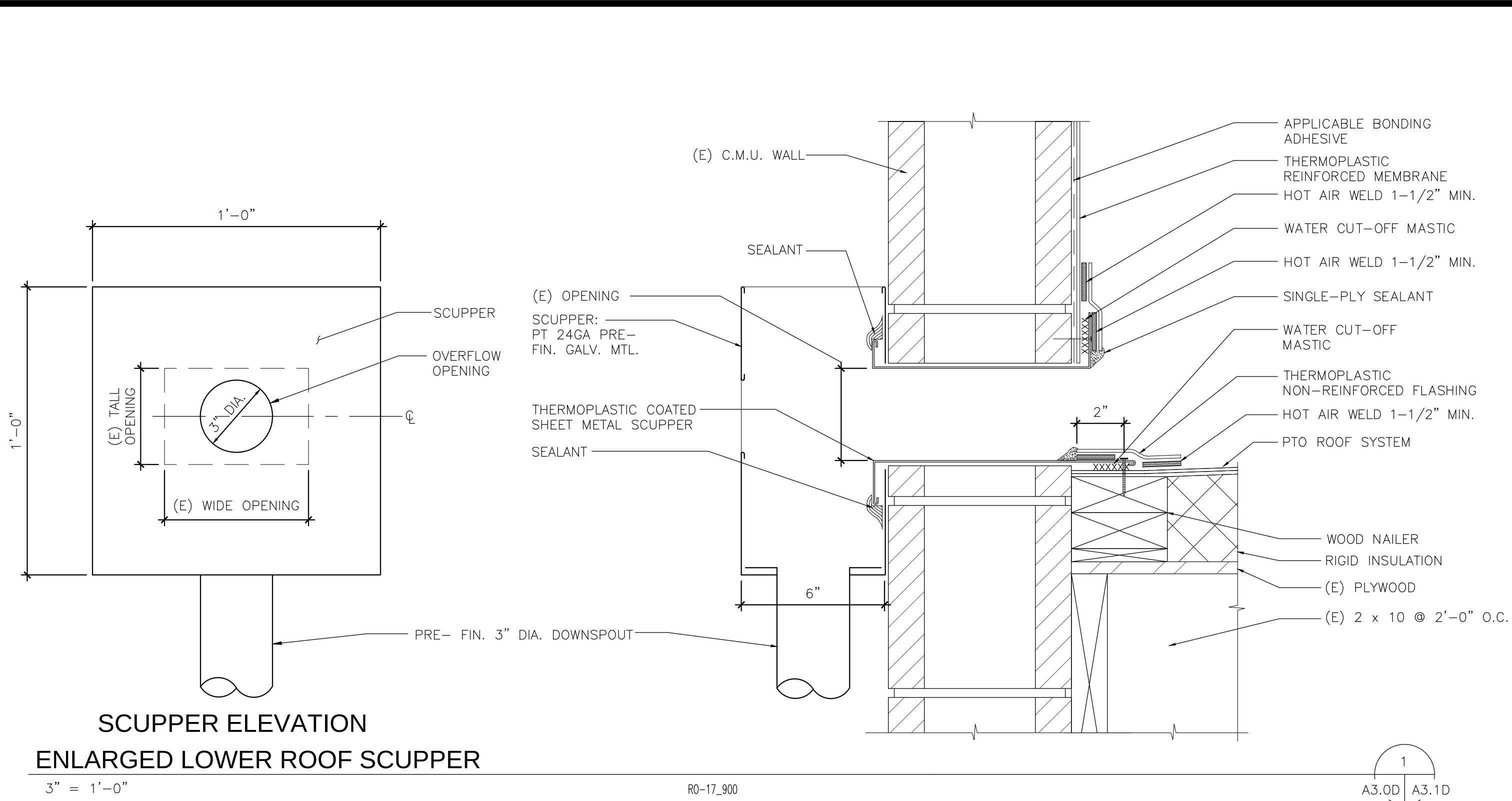
3" = 1'-0"	RO-09_900	A3.0D	A3.1D
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ENLARGED CMU PARAPET

3" = 1'-0"	R0-12_900	A3.0D	A3.1D
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6607 A3.1D	GUARDHOUSES 75, 575, 975 / BLDGS 700, 900 MAINTENANCE AND ROOF REPAIRS				APPROVED:		 INNOVA architects 950 Pacific Avenue, Suite 450 Tacoma, WA 98402 253-572-4903	 REUSE OF DOCUMENTS THIS DOCUMENT HAS BEEN REUSED AS A COMPONENT OF A NEW PROJECT. THE REUSE OF THIS DOCUMENT IS NOT AN ENDORSEMENT OR GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO PROTECT THE PUBLIC INTEREST. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO PROTECT THE PUBLIC INTEREST. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO PROTECT THE PUBLIC INTEREST.	 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6607 A3.2D	GUARDHOUSES 75, 575, 975 / BLDGS 700, 900 MAINTENANCE AND ROOF REPAIRS				APPROVED:				CHECKED BY: DATE		PROJ. ENGR. DATE				
	DETAILS - BUILDING 900				DIRECTOR ENG. DATE		PRINTED BY: CH Harper		Feb 14, 2020		TACOMA, WA 98401-1837				
					RANGE: **		SECTION: **		DRAWING SCALE: AS NOTED						
	TOWNSHIP: 071126		DATE-HRZ: 201062.04		PARCEL: 100%		AS NOTED		TACOMA, WA 98401-1837						
CONT/CONS: 071126										TOWNSHIP: 071126		DATE-HRZ: 201062.04		PARCEL: 100%	
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TYPICAL DAMAGE © (E) SKYLIGHT

PH-2070

13



TYPICAL DAMAGE © (E) SKYLIGHT

PH-2068

14



PH-2082

9



PH-2077

5



PH-2075

1



PH-2002

10



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PH-2073

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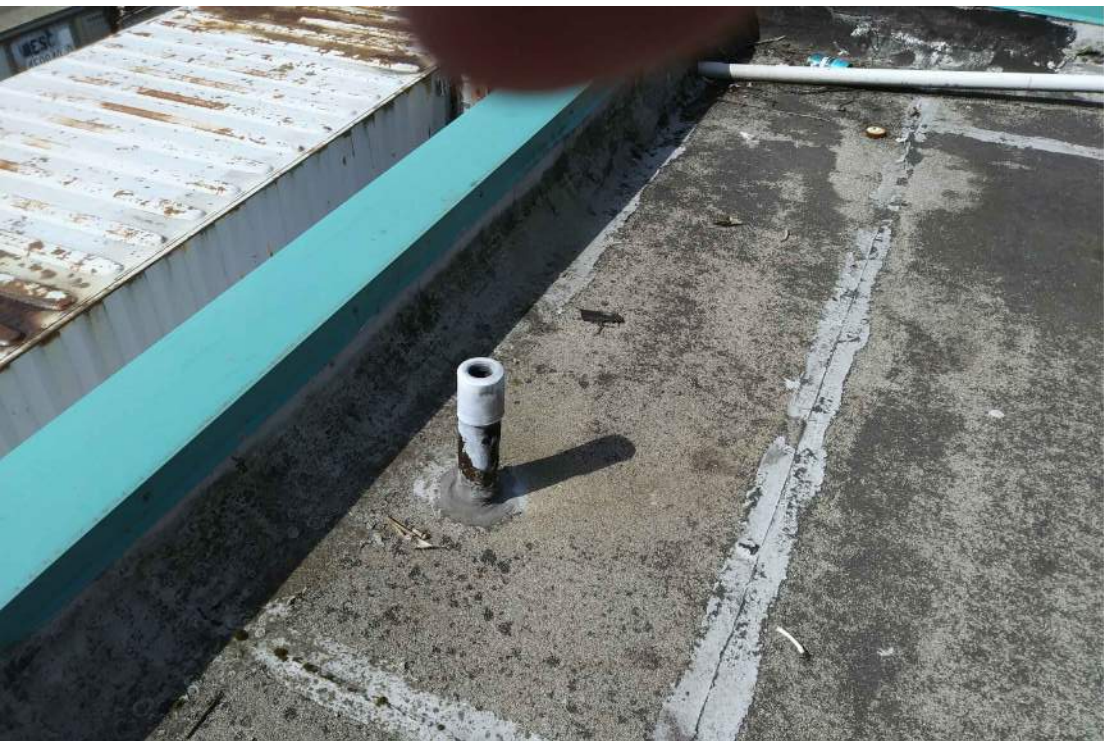
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GUARDBOUSES 75, 575, 975 / BLDGS 700, 900
MAINTENANCE AND ROOF REPAIRS

PHOTOS - BUILDING 900

CONT/CONS:	071126	TOWNSHIP:	RANGE:	SECTION:
M. ID:	201062.04	DAT-HRZ:	**	VERT:
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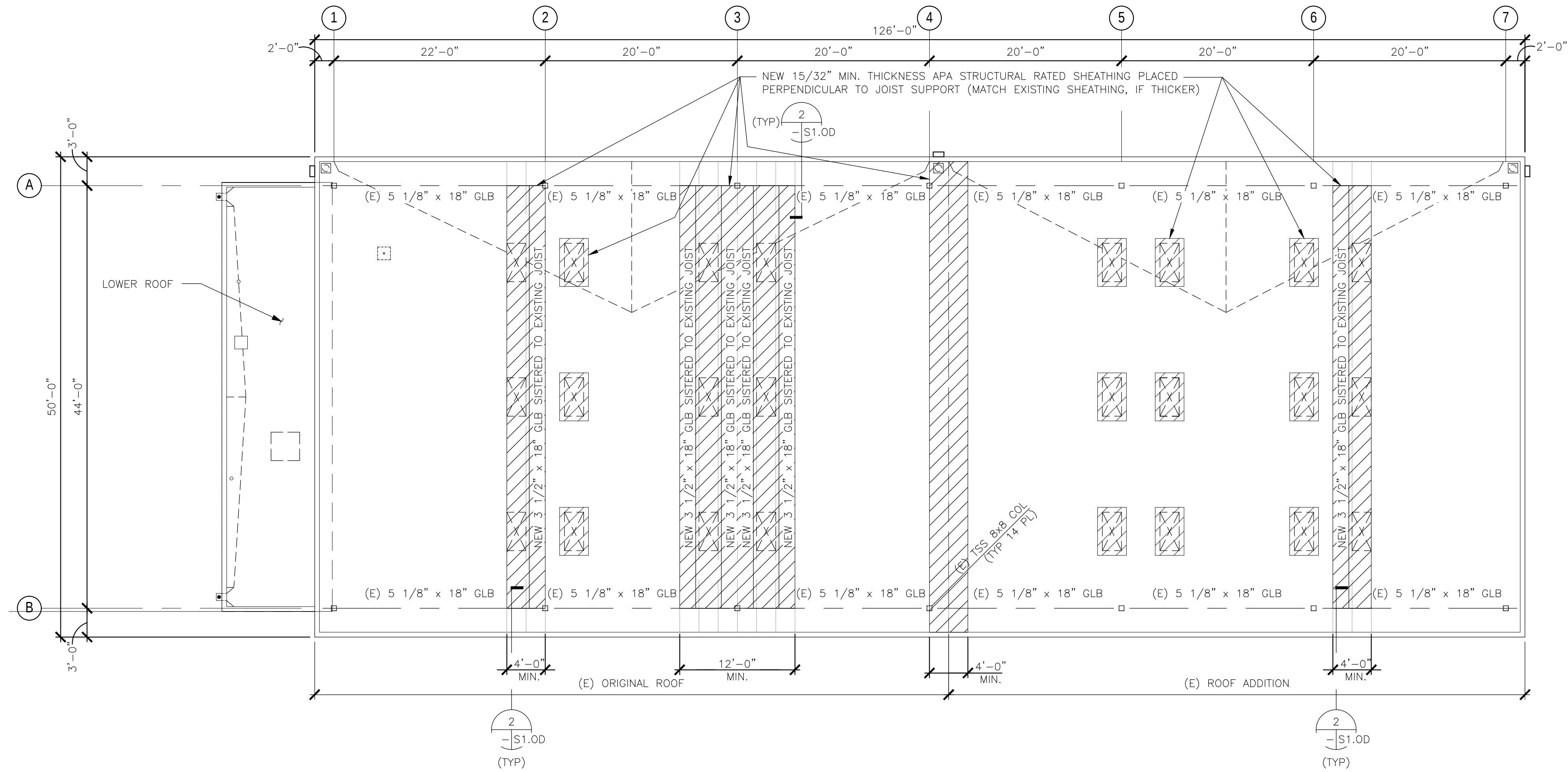
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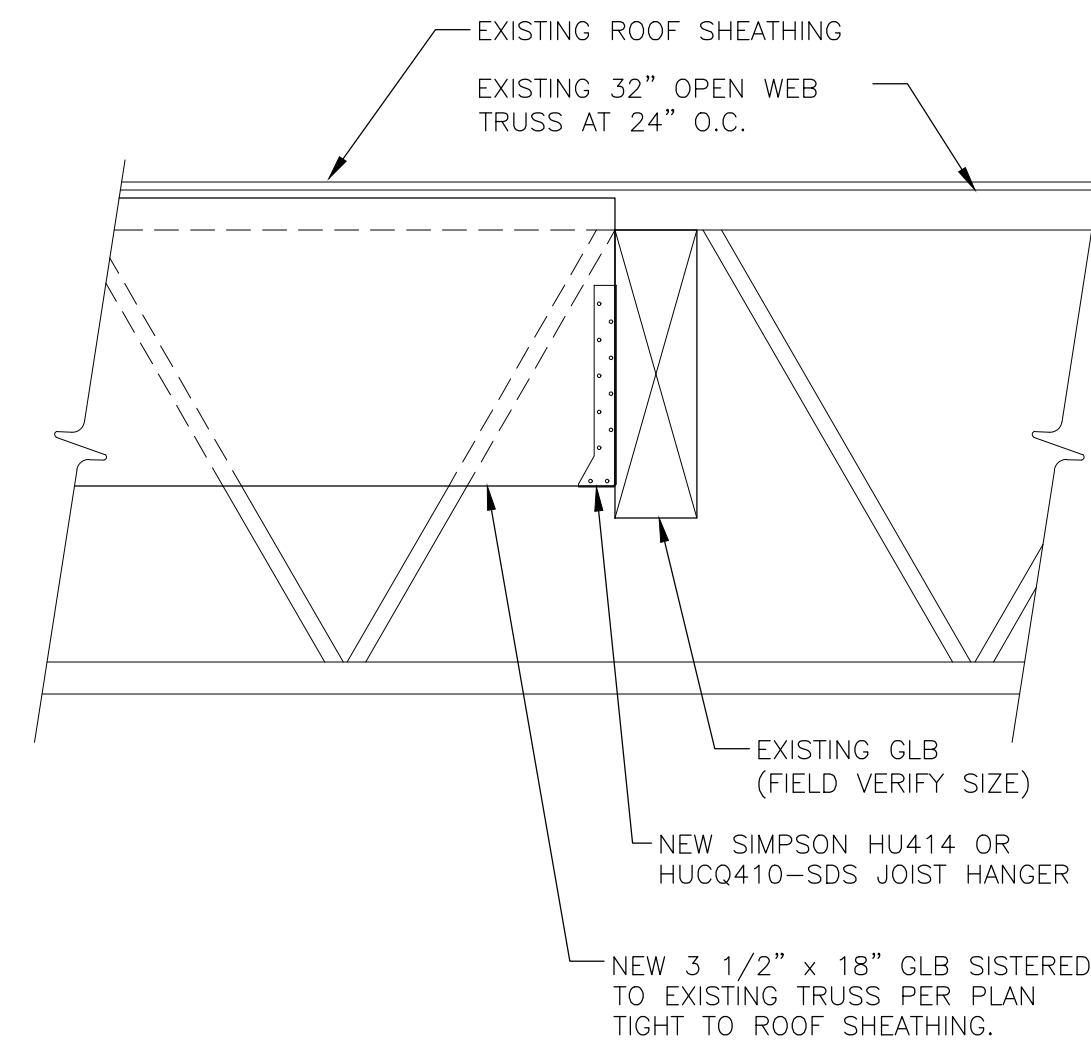
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1/8" = 1'-0"



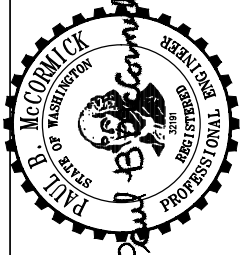
SECTION

WOOD ROOF FRAMING NOTES

1. NEW GLB'S SHALL HAVE 1" CAMBER UNLESS NOTED OTHERWISE.
2. VERIFY ALL TOP OF BEAM ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
3. UNLESS NOTED OTHERWISE, SHEATHING SHALL BE UNBLOCKED AND ORIENTED WITH LONG EDGE OF PANEL (OR FACE GRAIN IF PLYWOOD IS USED) PERPENDICULAR TO SUPPORTS. PANELS SHALL BE STAGGERED WITH OFFSET JOINTS OCCURRING OVER SUPPORTS. MINIMUM SHEATHING DIMENSION PERPENDICULAR TO SUPPORTS SHALL BE 24" UNLESS EDGES OF PANEL ARE BLOCKED.
4. INSTALL NEW GLB'S ONLY WHEN EXISTING ROOFING HAS BEEN REMOVED AND BEFORE PLACEMENT OF NEW ROOFING.
5. CONTACT ENGINEER IF ANY ADDITIONAL AREAS OF ROT DAMAGE ARE LOCATED IN ROOF STRUCTURE OR SHEATHING
6. SEE SHEET A2.0D FOR ROOF DEMOLITION PLAN

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architects

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COJ. ENGR	DATE

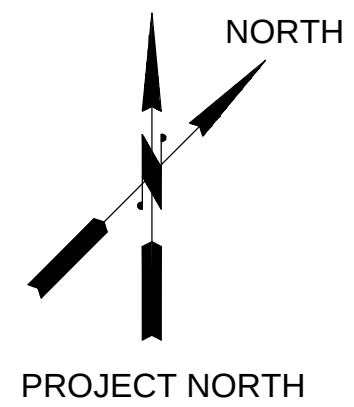
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**GUARDBOUSES 75, 575, 975 / BLDGS 700, 900
MAINTENANCE AND ROOF REPAIRS**

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CONSTRUCTION STAGING AREAS - GUARDHOUSE 975

NOT TO SCALE

6607
A1.0E

GUARDHOUSES 75, 575, 975 / BLDGS 700, 900
MAINTENANCE AND ROOF REPAIRS

CONSTRUCTION STAGING AREAS - GUARDHOUSE 975

CONT/CONS:	071126	TOWNSHIP:	RANGE:	SECTION:
M. ID:	201062.04	DATE-HRZ:	**	**
PHASE:	100%	PARCEL:	DRAWING SCALE: AS NOTED	

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CHECKED BY: DATE

DIRECTOR ENG. DATE

PRINTED BY: Charter Feb 14, 2020

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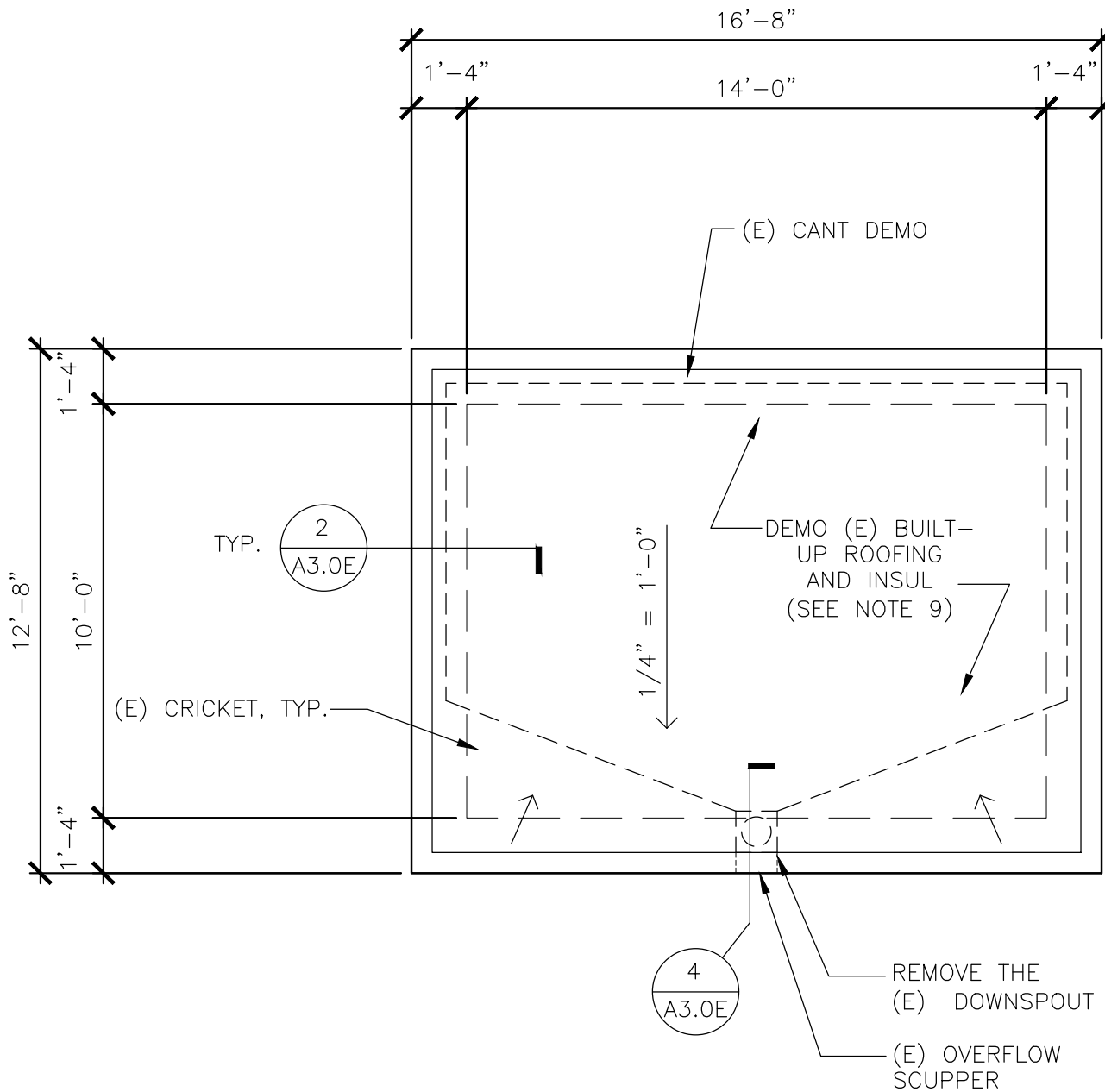
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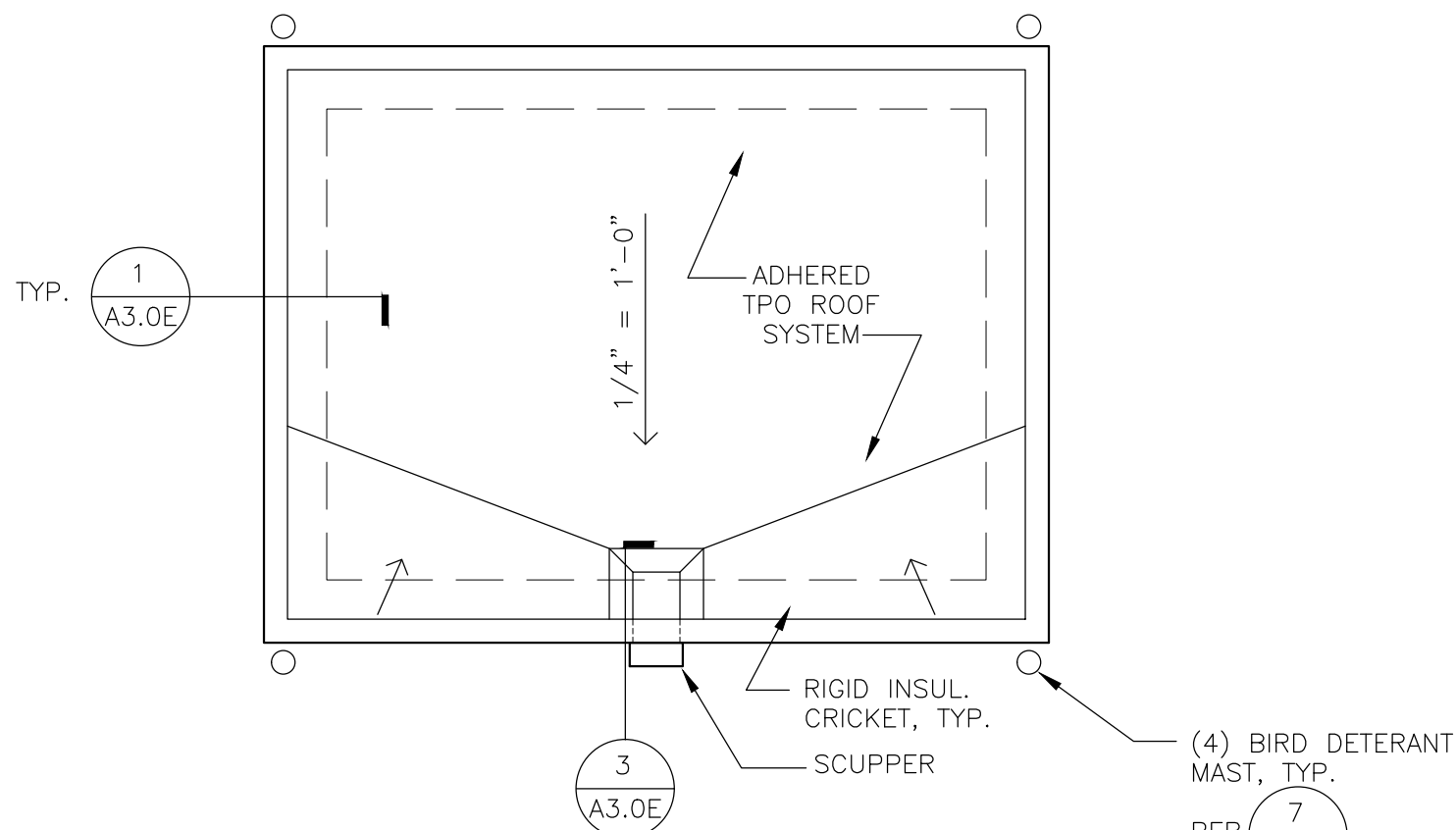
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Port of Tacoma

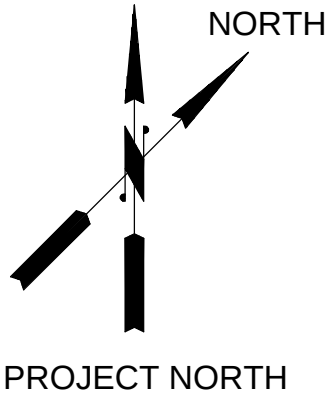
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DEMO ROOF PLAN - GUARDHOUSE 975
1/4" = 1'-0"



ROOF PLAN - GUARDHOUSE 975
1/4" = 1'-0"



DEMO ROOF PLAN NOTES

- (E) ROOF SYSTEM:
BUILT-UP ROOFING
O/ RIGID INSULATION R-30
O/ 1/2" CDX PLYWOOD
O/ 2 x 8 @ 2'-0" O.C.
- ROOF SQUARE FOOTAGE: 211 S.F.

DEMOLITION SEQUENCE

- REMOVE EXISTING ROOFING, DRY ROT, FLASHINGS.
- LEAVE EXPOSED FOR OBSERVATION BY ARCHITECT FOR HIDDEN DAMAGE
- DEMOLITION ADDITIONAL SHEATHING AND STRUCTURE AS DIRECTED.

GENERAL NOTES

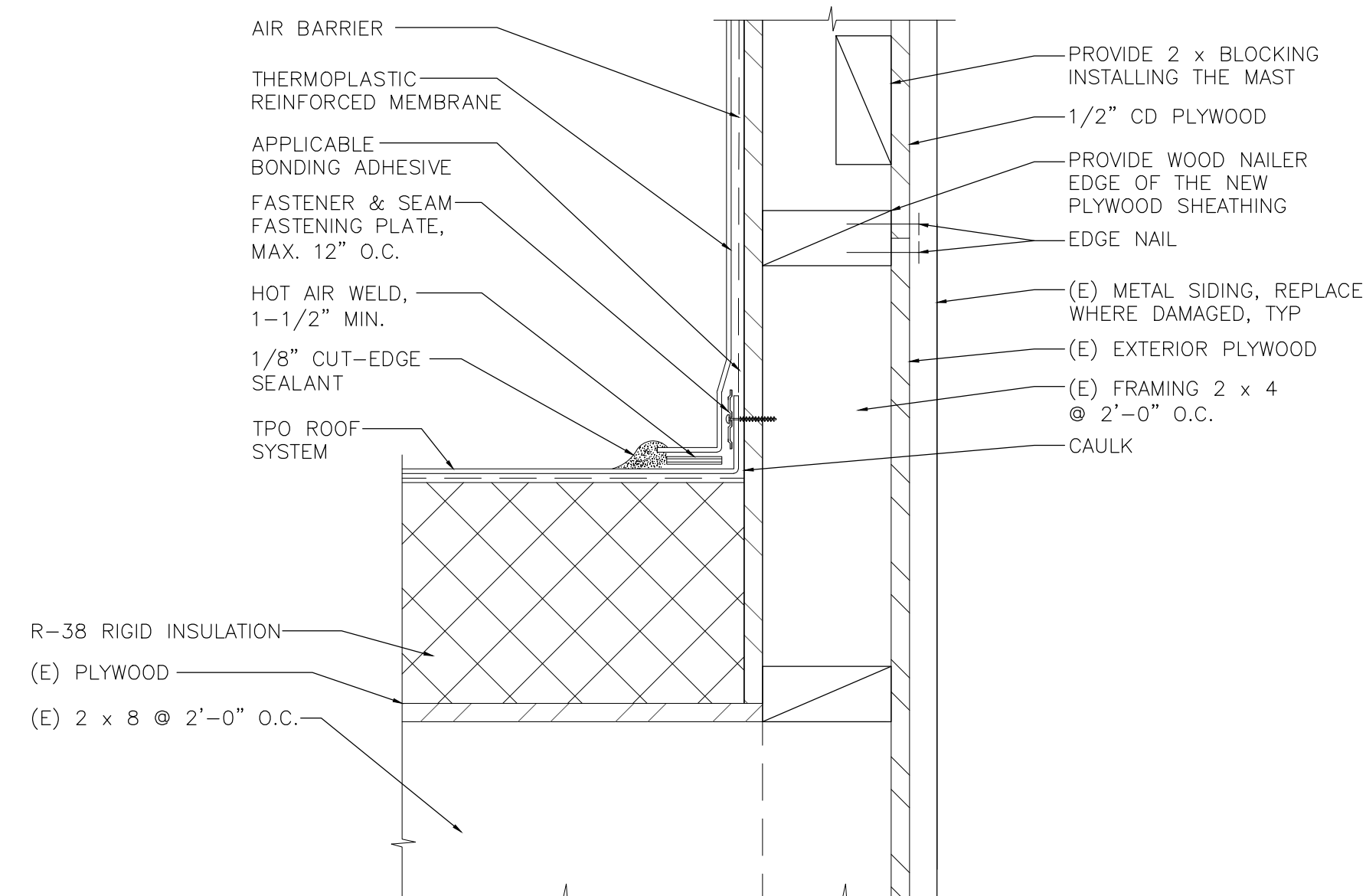
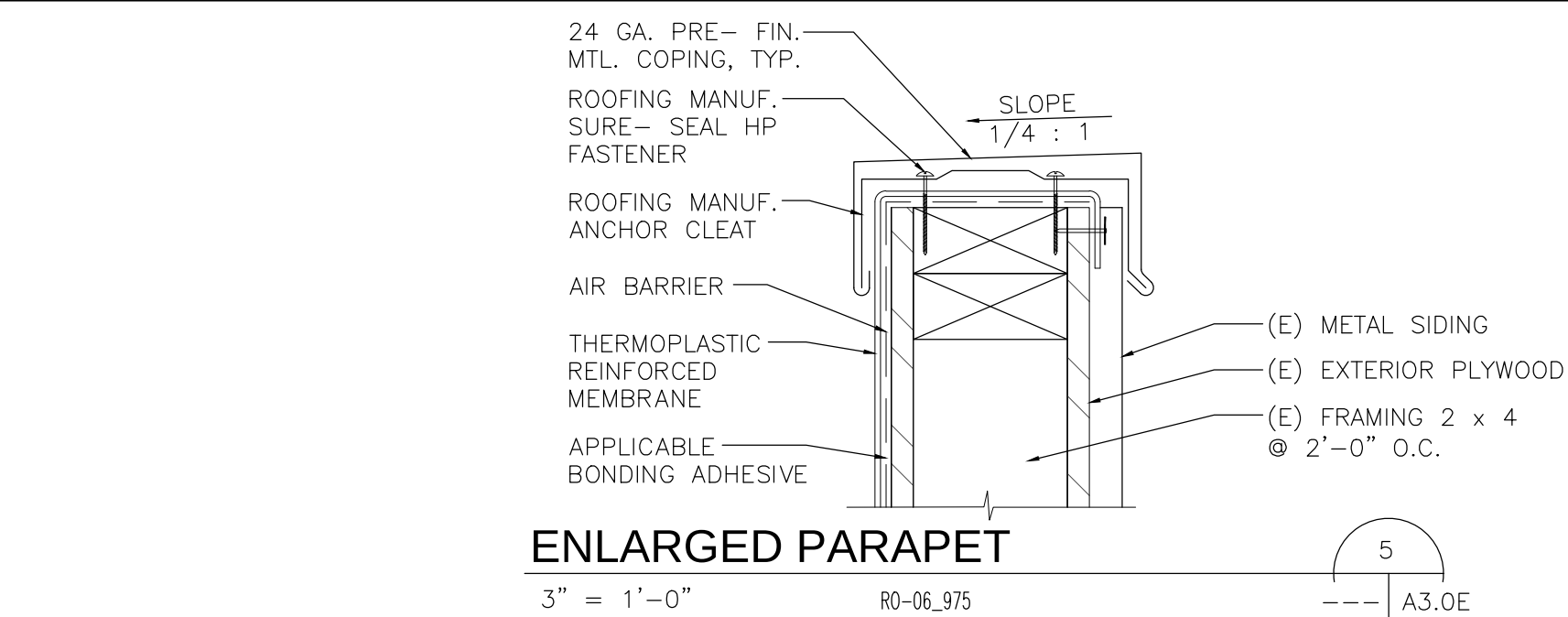
- MAINTAIN FUNCTIONALITY OF ROOFTOP MECHANICAL EQUIPMENT OR RELATED ROOF PENETRATION TO THE MAXIMUM EXTENT POSSIBLE THROUGHOUT RE-ROOFING OPERATIONS.
- FIELD VERIFY ALL EXISTING CONDITIONS AND CONNECTION POINTS PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND RELATIONS TO OTHER WORK. NOTIFY ENGINEER FOR RESOLUTION OF ALL DISCREPANCIES OR CONFLICTS PRIOR TO EXECUTION OF THE WORK.
- ALL WORK SHALL COMPLY WITH THE FOLLOWING INCLUDING CITY OF TACOMA AMENDMENTS AS APPLICABLE:
 - 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 - 2015 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2015 INTERNATIONAL FIRE CODE (IFC)
 - 2015 WASHINGTON STATE BUILDING CODE, FIRE CODE & ENERGY CODE INCLUDING AMENDMENTS

ALL REFERENCES TO OTHER STANDARDS AND CODES SHALL BE THE LATEST EDITION, UNO

PERMITS FOR THIS WORK WILL BE REQUIRED AND SHALL BE ACQUIRED FROM THE GOVERNING AGENCY(S) PRIOR TO START OF WORK

- DO NOT SCALE DRAWINGS.
- MAINTAIN CLEAR EXIT PATHS TO REQUIRED MEANS OF EGRESS.
- PROTECT ALL WORK SCHEDULED TO REMAIN.
- PROTECTION: PROTECT WORK THAT WILL BE OCCUPIED AND OPERATIONAL DURING THE CONTRACT PERIOD. CONTRACTOR IS RESPONSIBLE TO PROTECT PEOPLE AND PROPERTY. PROTECT BUILDING, EQUIPMENT, PAVING, VEHICLES, PEDESTRIANS AND TENANT OPERATIONS FROM ROOFING OPERATIONS INCLUDING DUST, DEBRIS, PAINT ETC. SEAL OFF OPENINGS, AND AREAS DURING OPERATIONS THAT WOULD ALLOW DUST, WATER INFILTRATION, FALLING OBJECTS, OR ANY OTHER ENVIRONMENTAL CONTAMINANT TO ENTER THE BUILDING OR EFFECT OUTDOOR OPERATIONS. CONTRACTOR TO USE ALL APPROPRIATE DUST CONTROL MEASURES. COORDINATE DUST CONTAINMENT MEASURES WITH ENGINEER PRIOR TO INITIATING WORK. PROTECT ADJACENT AREAS WHERE THERE IS NO WORK TO BE PERFORMED. PROTECT WORK IN PROGRESS OR FINISHED WORK DURING OTHER CONTRACT TASKS. LEAVE PROTECTION IN PLACE AS MUCH AS PRACTICABLE UNTIL PUNCH LIST. COORDINATE WITH ENGINEER FOR SAFETY NOTICES AND PROCEDURES THAT WOULD AFFECT THE TENANT.
- EXISTING PAINTED METAL SOFFITS TO REMAIN. REPLACE DAMAGED/ CRUSHED AREAS WITH SAME SECTION PANELS AND FLASHINGS AND MATCH ADJ. COLOR AS CLOSE AS PRACTICABLE FROM MANUF. STANDARD KYNAR COLORS. SEE PHOTOS.
- REMOVE ROOF, INSULATION COPINGS, DOWN TO SUBSTRATE; FLEXIBLE FLASHING TAPE, EXPOSED SEALANTS AND MASTICS, AND OTHER REPAIR SYSTEMS NOT LISTED, DOWN TO METAL ROOF PANEL. PREPARE THE METAL PANELS PER MANUFACTURERS RECOMMENDATIONS FOR LIQUID FLASHING OR FIELD COAT SYSTEM, REMOVING LOOSE DEBRIS, PAINT, RUST, AND CONTAMINANTS. CONTRACTOR IS RESPONSIBLE FOR THE SAFE COLLECTION AND LAWFUL DISPOSAL OF ALL DEBRIS, DUST, CLEANING AGENTS, METAL PREPARATION, AND WATER GENERATED DURING PREPARATION OF METAL SURFACES. DISCHARGE NOTHING TO ANY STORM OR SEWER SYSTEM ON SITE. PROVIDE ENGINEER WITH ANY REPORT, TESTING, OR CERTIFICATION SHOWING COMPLIANCE WITH LAWFULL DISPOSAL OF AFOREMENTIONED PRODUCTS AND BYPRODUCTS, PER PORT OF TACOMA STANDARDS.
- FLASHINGS & COPINGS: ALL FLASHINGS AND COPINGS SHALL BE ASSEMBLED PER SMACNA. SHEET STOCK SHALL BE 24GA KYNAR PAINTED GALV. STEEL UNO. SIDING PANELS PER SPECIFICATIONS. ALL CUSTOM SHEET METAL AND IRONWORK WILL REQUIRE SHOP DRAWING SUBMITTALS.
- FASTENERS: ALL FASTENERS SHALL BE GALVANIZED AND PAINTED, SELF-TAPPING TEK SCREWS, WITH UV STABILIZED EPDM WASHERS, AS RECOMMENDED BY THE MANUFACTURER, OR TRADE/INDUSTRY GUIDELINES, UNO. REPLACE EXISTING FASTENERS WITH THE SAME LENGTH, TWO SIZES IN WIDTH LARGER. FOR ALL OTHER TYPES OF FASTENERS, MEET SMACNA REQUIREMENTS.
- REPLACE DAMAGED SHEATHING AND FRAMING AS REQUIRED PROVIDE UNIT PRICING AS SPECIFIED.

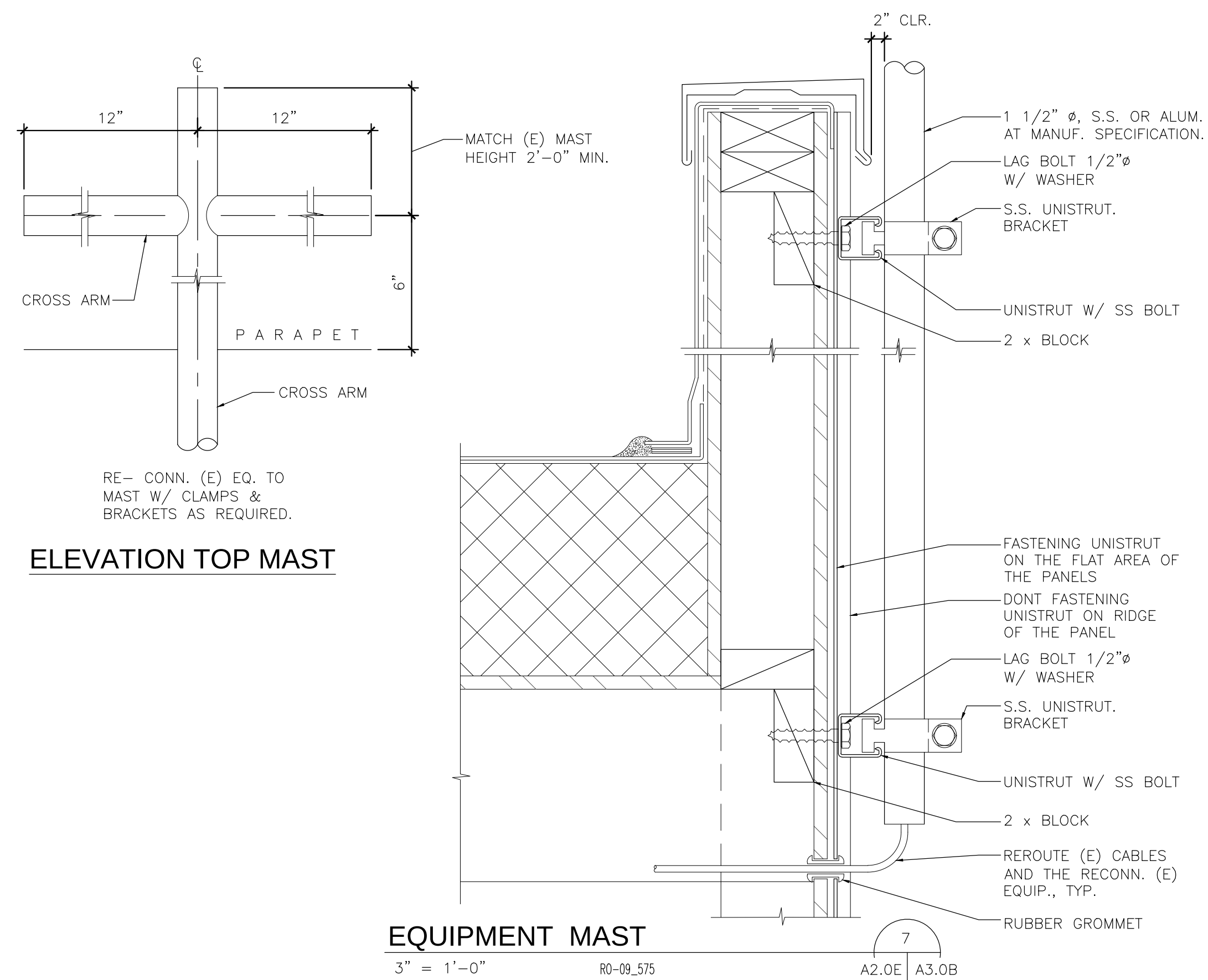
6607 A2.0E	GUARDHOUSES 75, 575, 975 / BLDGS 700, 900 MAINTENANCE AND ROOF REPAIRS				NOVA architects 950 Pacific Avenue, Suite 450 Tacoma, WA 98402 253-572-4903				Port of Tacoma P.O. BOX 3837 TACOMA, WA 98401 (203)389-5841			
	CONT/CONS: 071126		TOWNSHIP: 071126		RANGE: **		SECTION: **		MARK:		REVISION:	
	M. ID: 201062.04		DAT-HRZ: **		VERT: **		PRINTED BY: Harper		BY:		DATE:	
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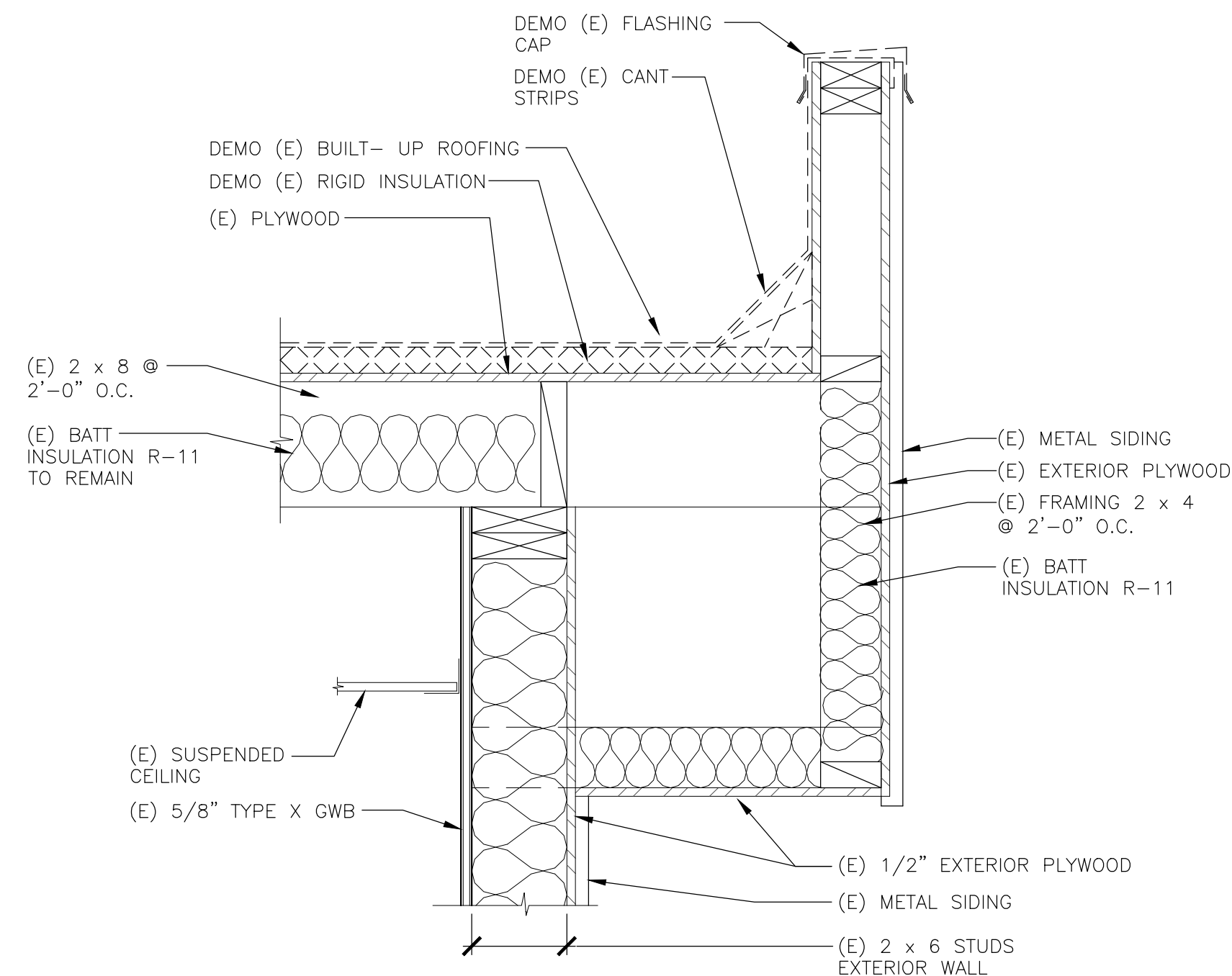
ENLARGED PARAPET

3" = 1'-0" R0-04_975

6
A3.0E



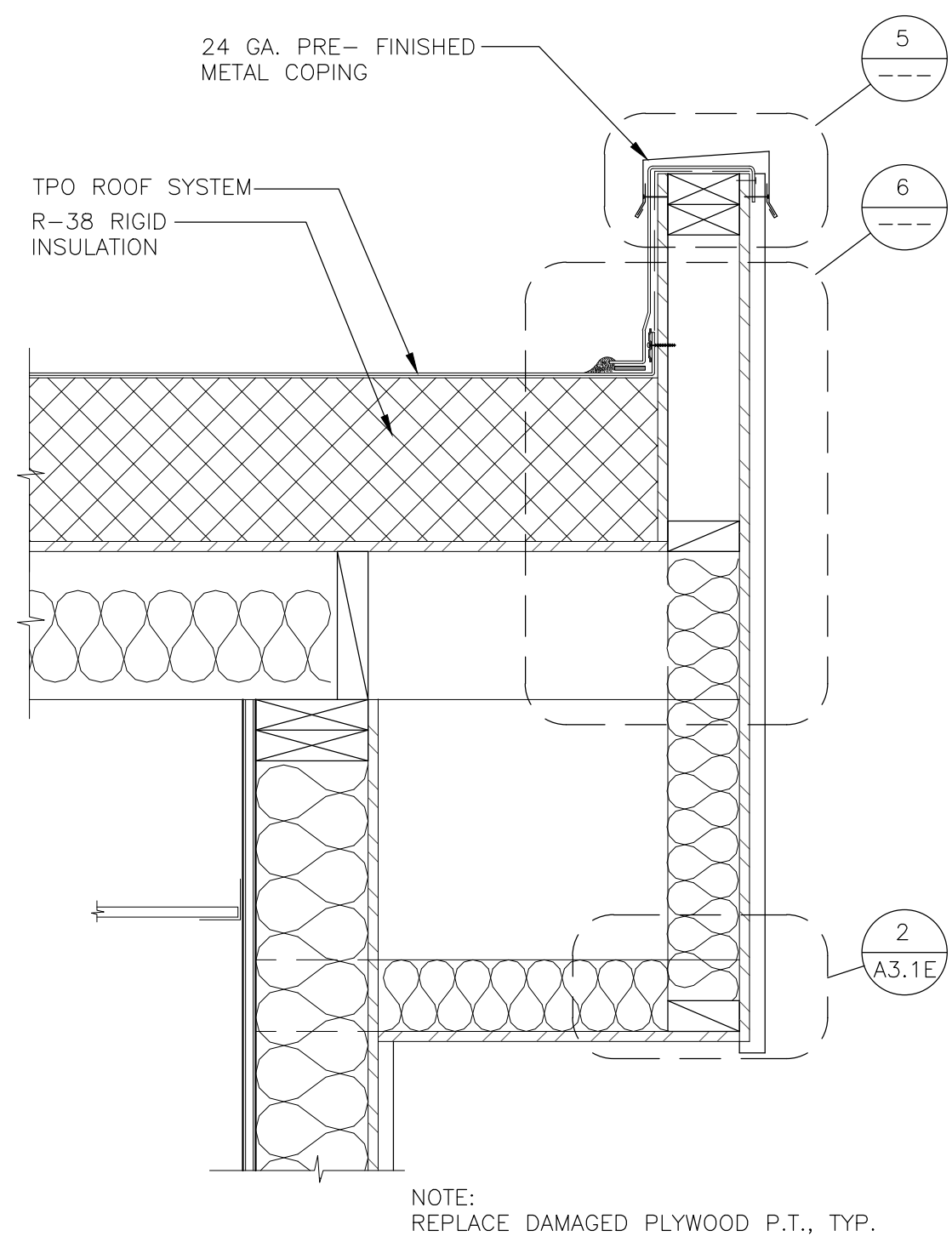
3" = 1'-0"	R0-09_575	A2.0E	A3.0E
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DEMO ROOF PARAPET

1 1 1/2" = 1'-0" RO-01_975

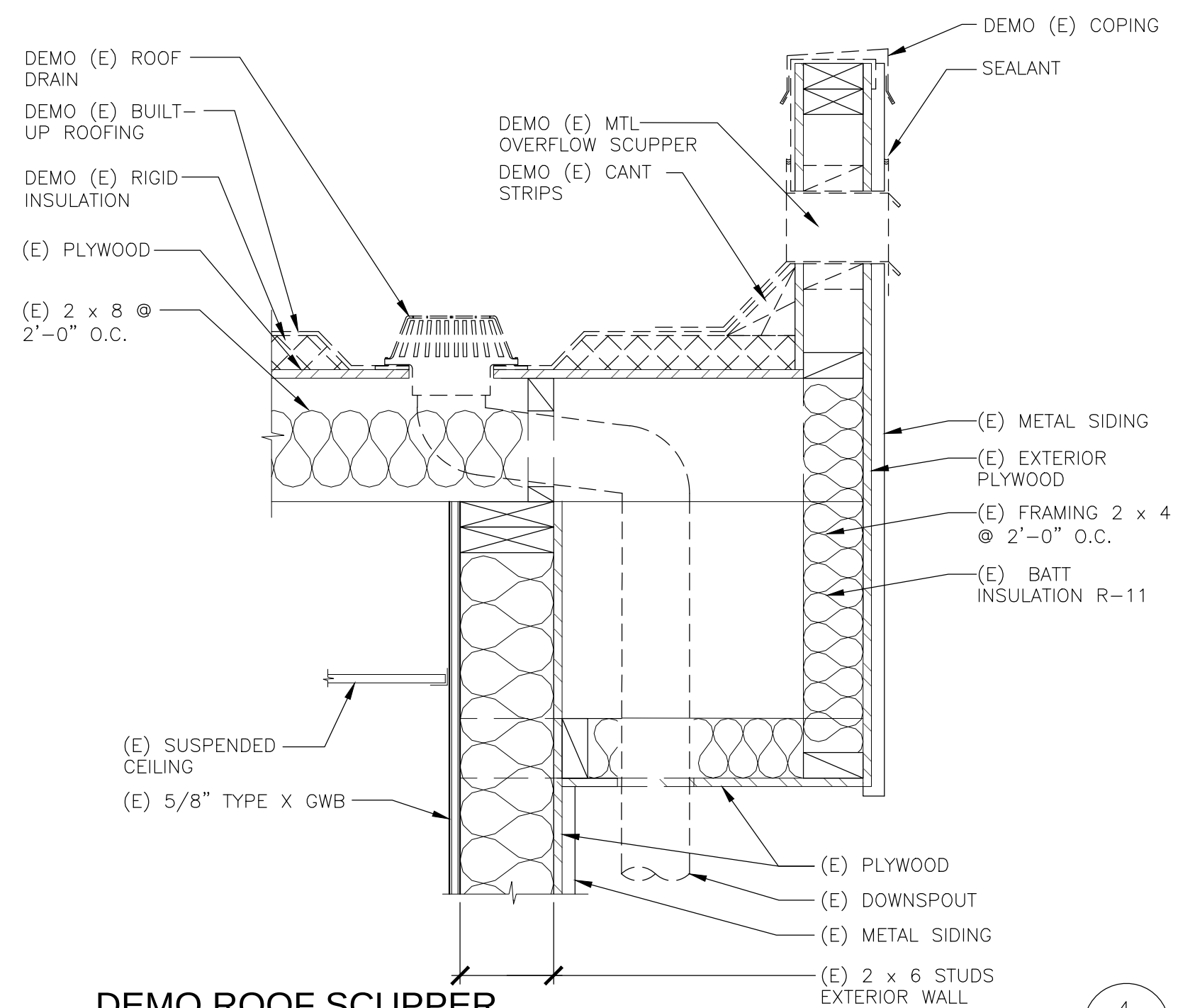
A2.0E 2 A3.0E



ROOF PARAPET

1 1/2" = 1'-0" RO-01_975

A2.0E A3.0E



DEMO ROOF SCUPPER

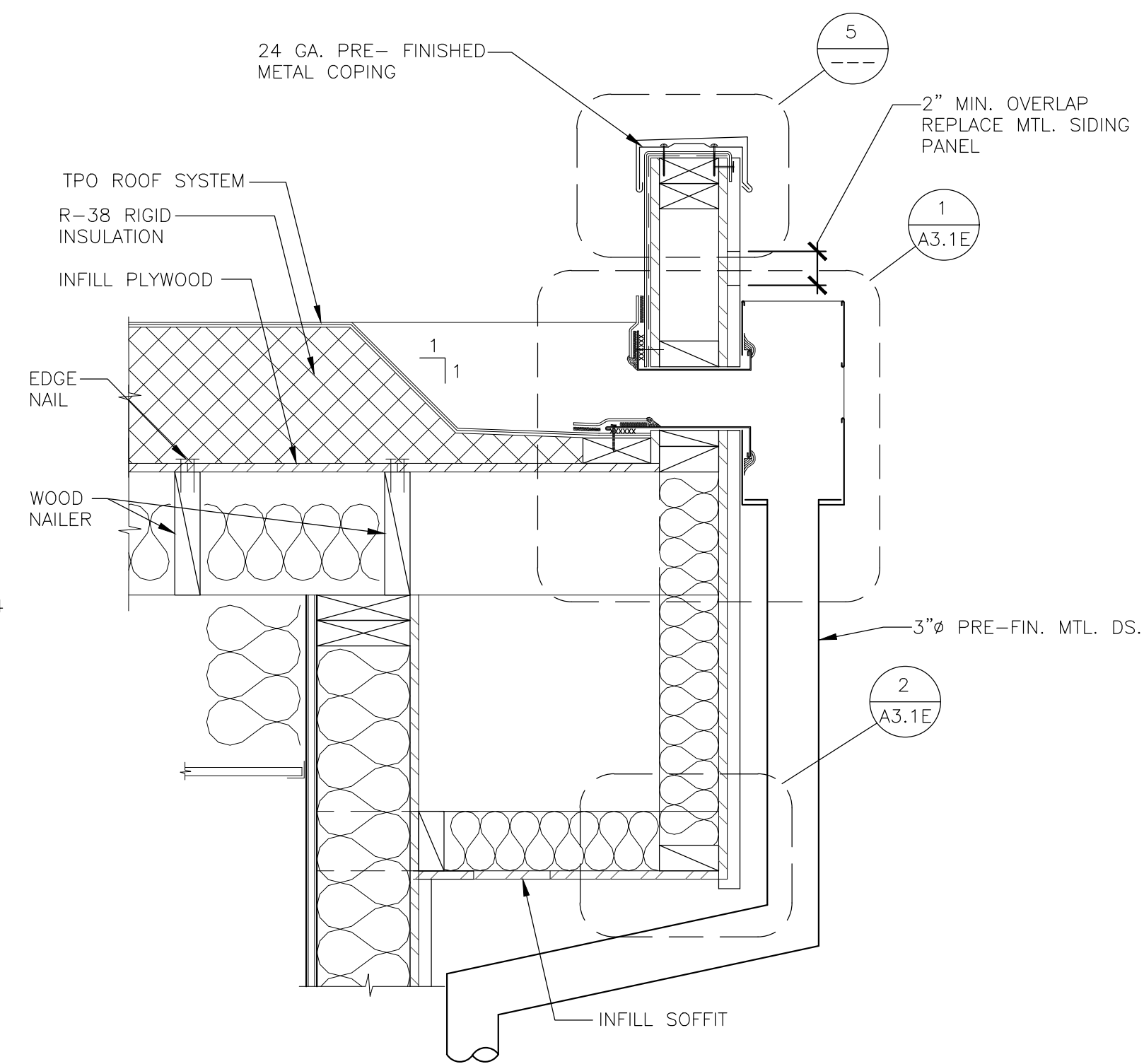
1 1/2" = 1'-0"

RO-02_975

EXTERIOR WALL

4

A2.0E A3.0E



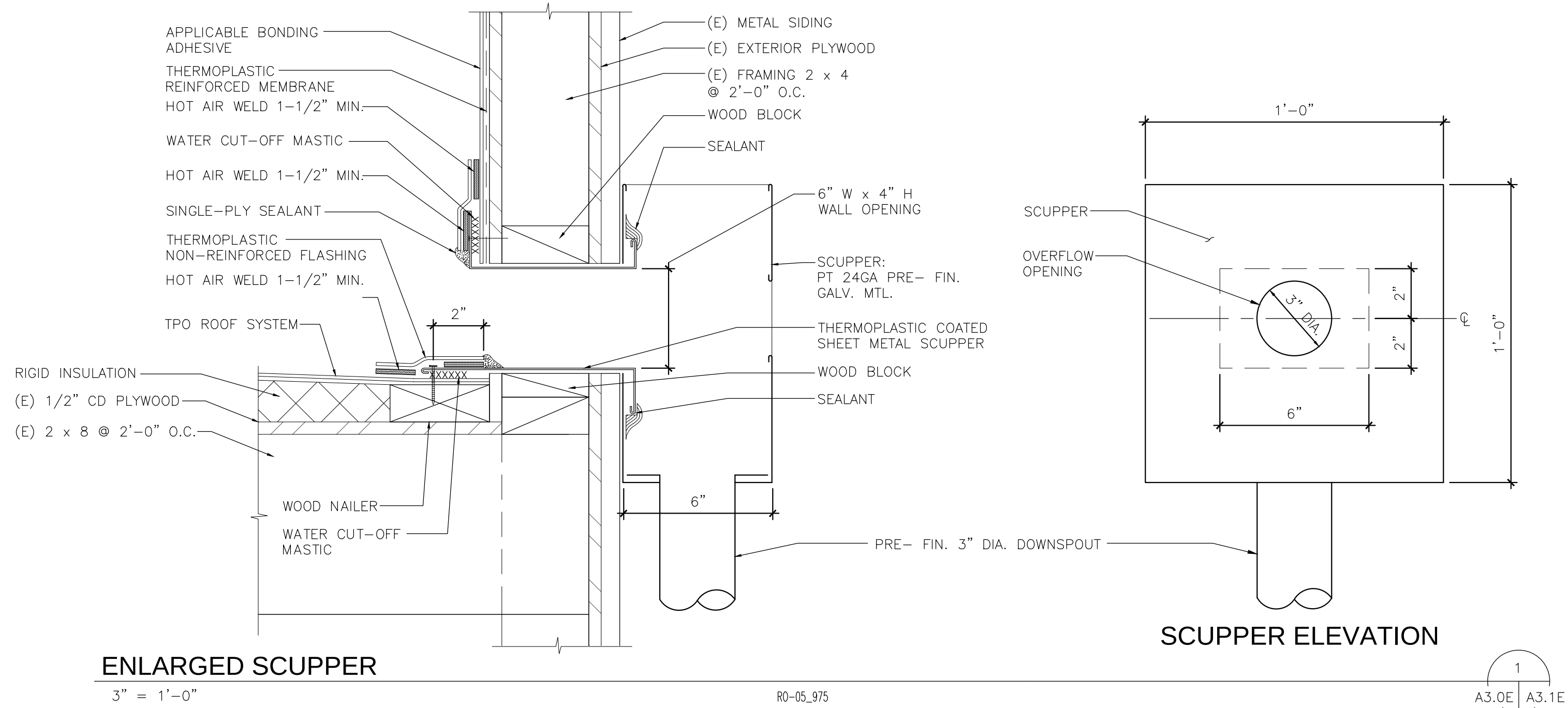
ROOF SCUPPER

1 1/2" = 1'-0"

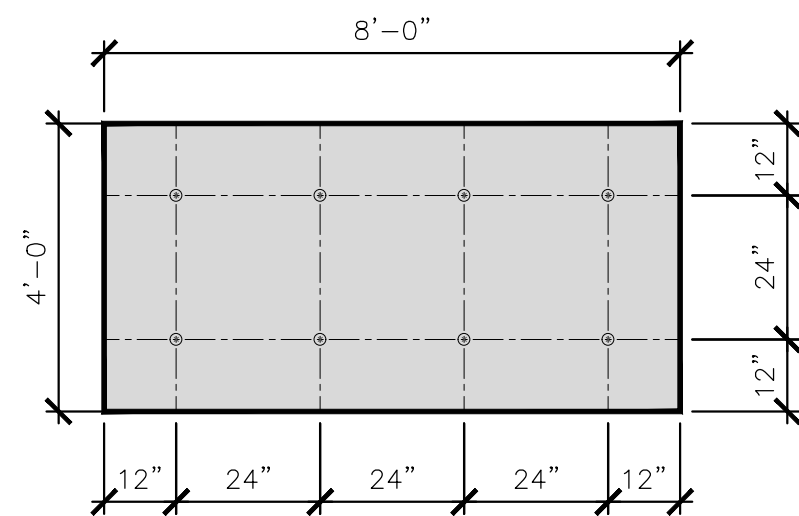
RO-02_975

3

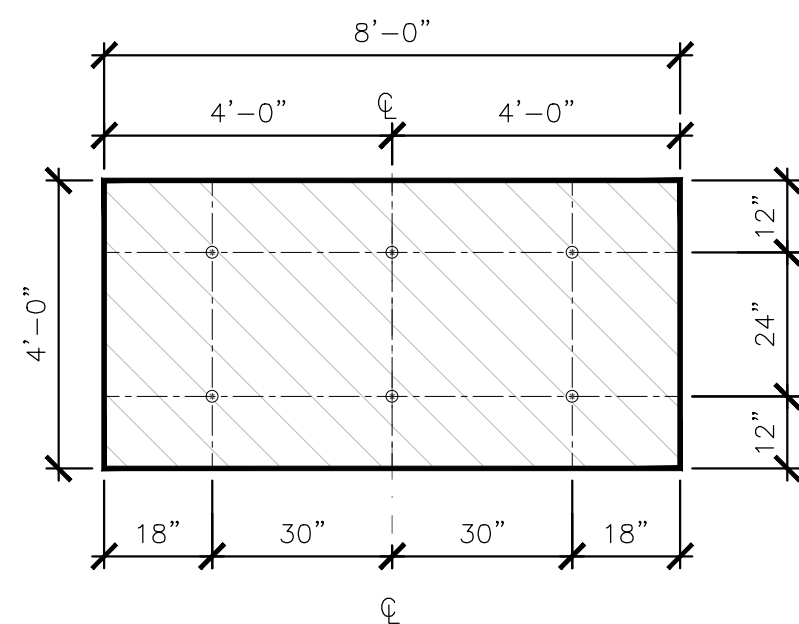
A2.0E | A3.0E



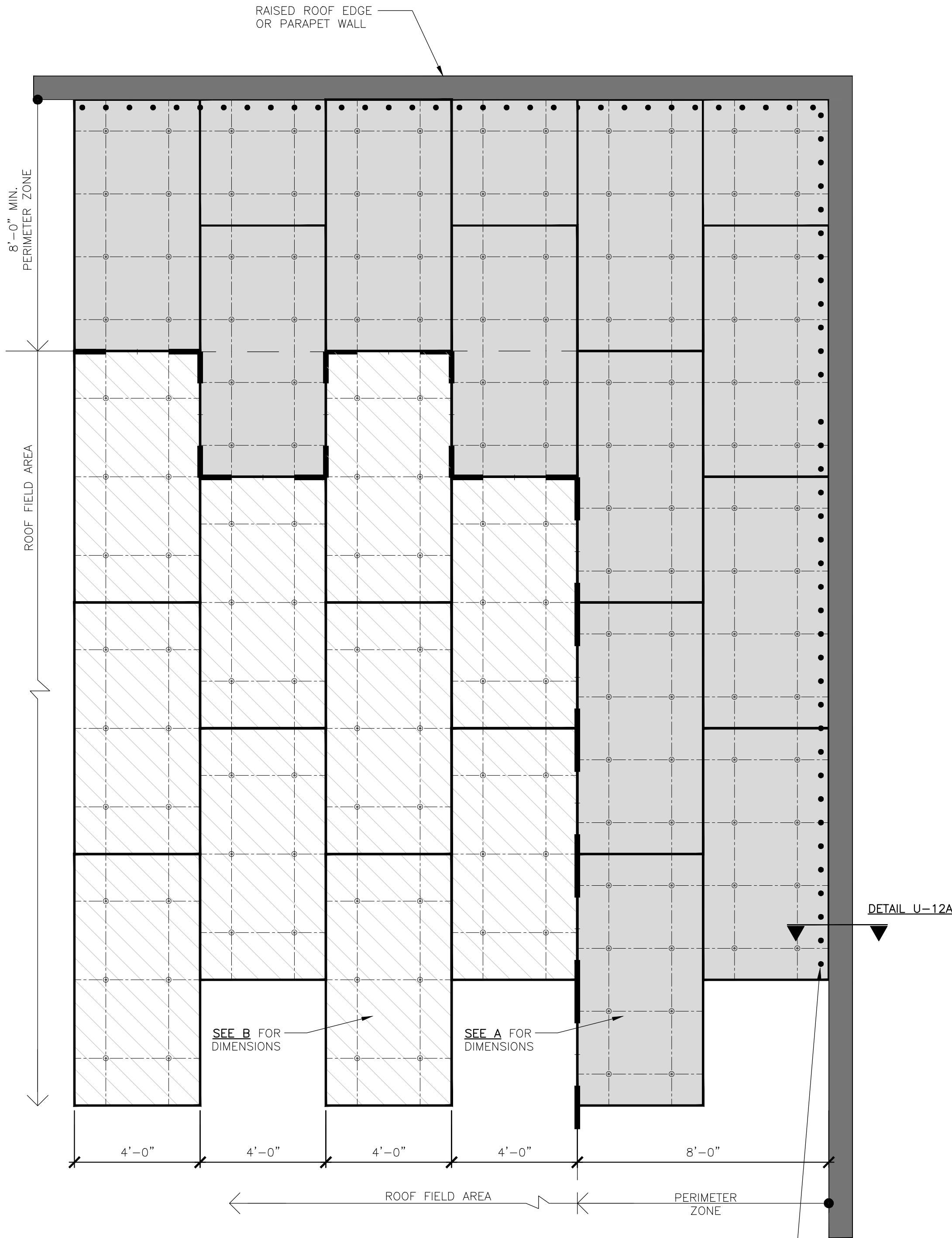
Rhino Bond Plate METHOD OF MEMBRANE ATTACHMENT IS NOT FOR USE WITH NON-FACED EPS (EXPANDED POLYSTYRENE) OR XPS (EXTRUDED POLYSTYRENE) INSULATIONS.



A PERIMETER ZONE
8 FASTENERS PER 4'X8' BOARD



B FIELD OF ROOF
6 FASTENERS PER 4'X8' BOARD



MEMBRANE FASTENED MINIMUM 12" O.C. AT ANGLE(S) —
CHANGES. FOR ADDITIONAL INFORMATION SEE DETAIL MF-2

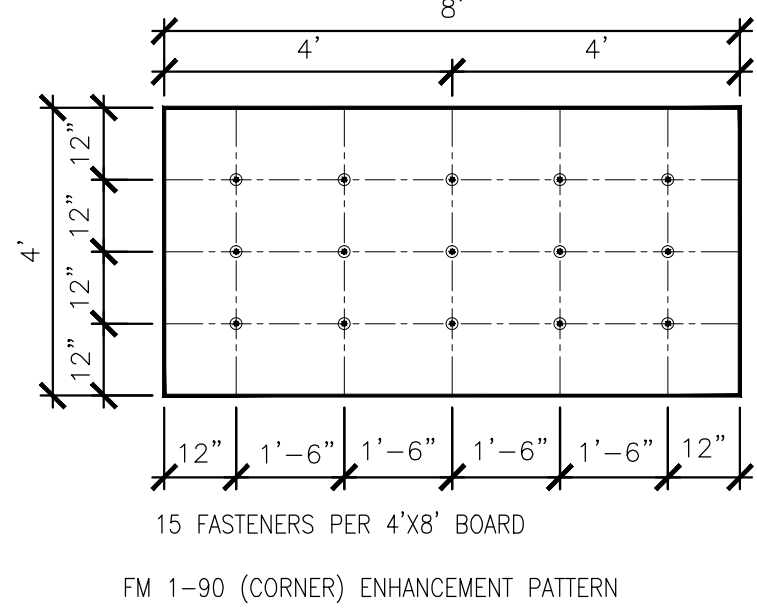
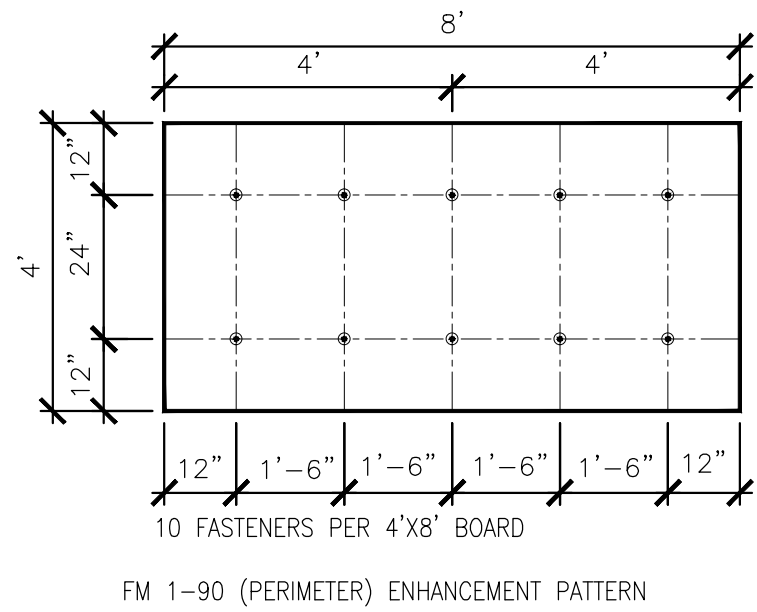
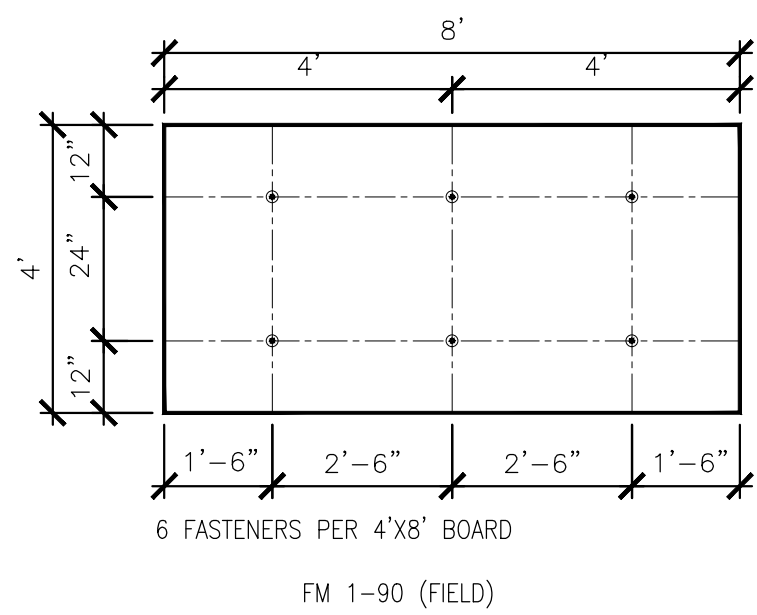
DECK TYPE	DECK THICKNESS	FASTENER	THERMOPLASTIC * COATED PLATE	PIRANHA *
STEEL	22 GAUGE	CARLISLE HP-X FASTENER	3-1/8" DIAMETER W/ SECTION WELD	10" PRESSURE SENSITIVE RUSS & PLATE
PLYWOOD	15/32"			
NOTE: AT IN-FILL MINOR PIECES, USE MIN. 2 FASTENERS.			* GC OPTION	

N.T.S

RO-18

(CARLISLE DETAIL RB-1)

2



1

N.T.S

R0-20

(CARLISLE DETAIL RB-3)

LEGEND

- | | |
|---|---|
|  | THERMOPLASTIC MEMBRANE |
|  | APPROVED SUBSTRATE |
|  | PERIMETER AREA |
|  | FIELD AREA |
|  | WOOD NAILER (BY OTHERS) |
|  | CARLISLE FASTENER + Piranha
Plate FASTENER PLATE |
|  | SEE NOTE(S) |
|  | APPLICABLE BONDING ADHESIVE |
|  | USE OF CAV-GRIP MAY ALSO
BE USED FOR UP TO 20 YEAR
WARRANTY |
|  | WATER CUT-OFF MASTIC - MUST
BE HELD UNDER CONSTANT
COMPRESSION. |

GENERAL NOTES

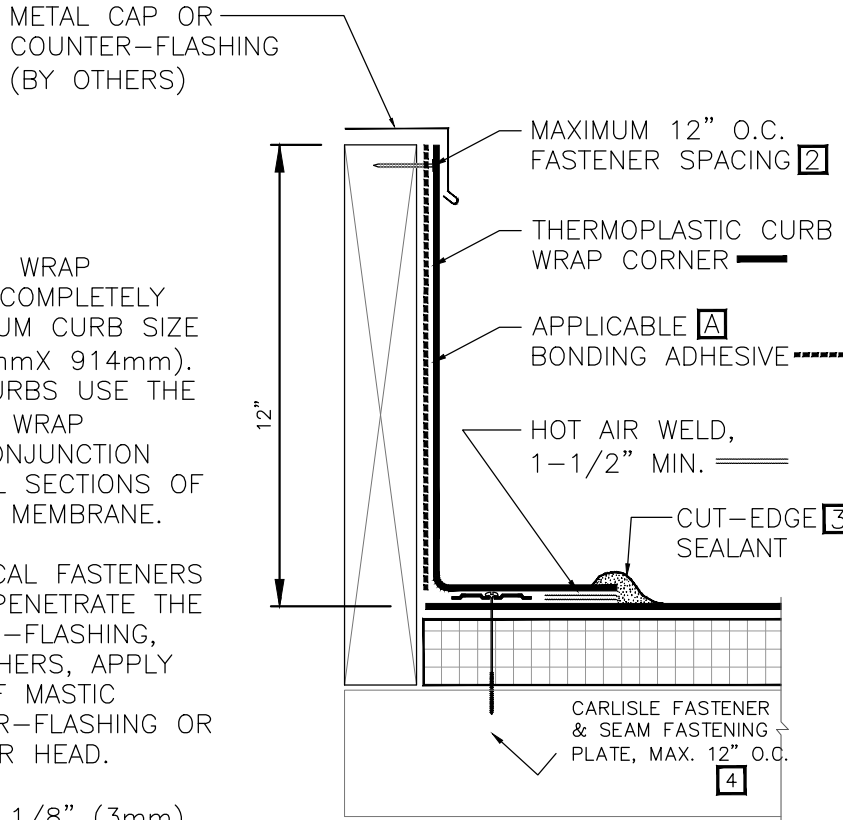
1. PROJECT SPECIFIC DETAILS SHALL SUPERCEDE TYPICAL DETAILING.
2. THE GENERAL DETAILS SHALL BE FOLLOWED IN THE CONSTRUCTION.
3. VERIFY EXISTING SUBSTRATES ARE ADEQUATE.

[illegible]

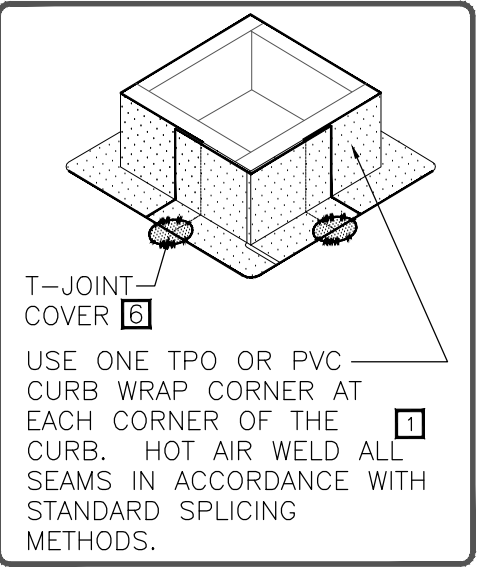
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NOTES:

- FOUR (4) CURB WRAP CORNERS WILL COMPLETELY FLASH A MAXIMUM CURB SIZE OF 3'X3' (914mmX 914mm). FOR LARGER CURBS USE THE TPO/PVC CURB WRAP CORNERS IN CONJUNCTION WITH ADDITIONAL SECTIONS OF THERMOPLASTIC MEMBRANE.
- WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER COUNTER-FLASHING OR CAULK FASTENER HEAD.
- APPROXIMATELY 1/8" (3mm) BEAD OF CUT-EDGE SEALANT IS REQUIRED ON THE CUT EDGES OF THE TPO FIELD WRAP CORNER.
- REFER TO CARLISLE SPECIFICATIONS FOR ACCEPTABLE CARLISLE FASTENERS AND PLATES.
- CUSTOM SIZES ARE AVAILABLE FOR CURB FLASHING HEIGHTS GREATER THAN 12" (305mm).
- IF THE PRE-FABRICATED CURB WRAP IS A "CFA" LABELED PART, NO "T-JOINT" COVERS ARE REQUIRED. SEE INSET 1.
- APPLICABLE BONDING ADHESIVE FOR PVC OR TPO. IN CASE OF TPO, CAV-GRIP ADHESIVE MAY ALSO BE USED ON VERTICAL PORTION.

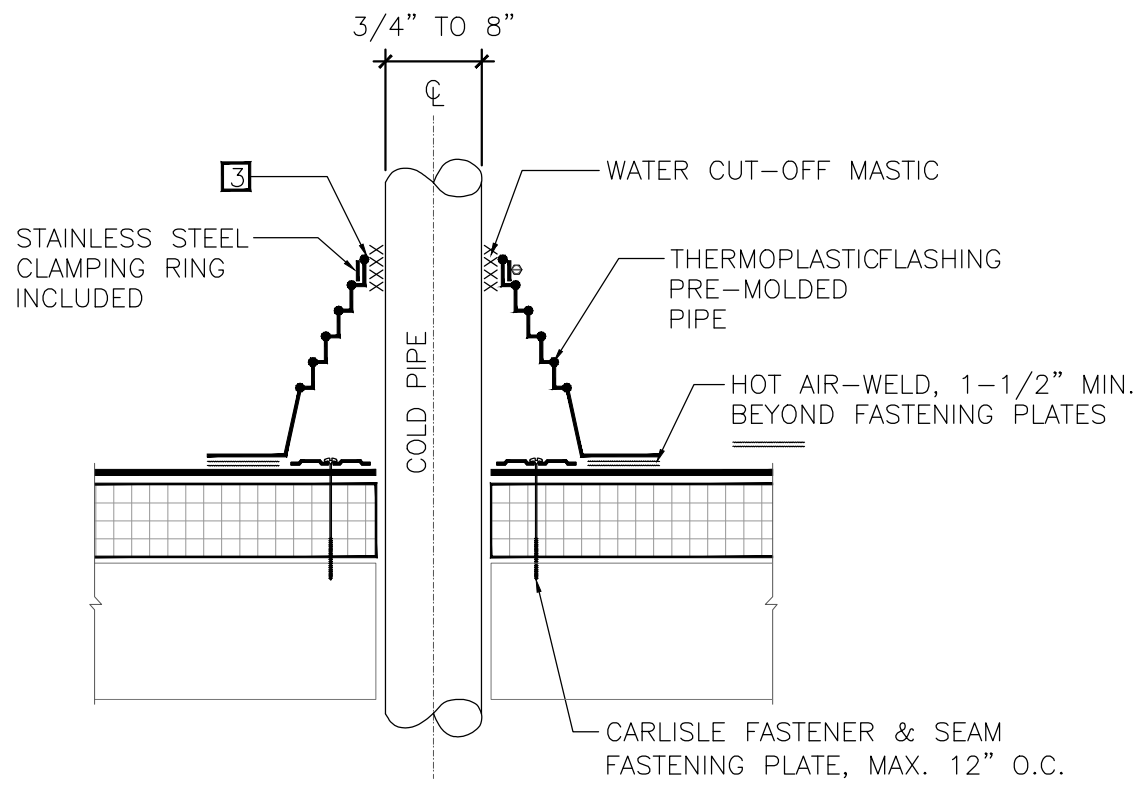


TPO MEMBRANE ONLY
[A] USE OF CAV-GRIP ADHESIVE MAY ALSO BE USED FOR UP TO 20 YEAR WARRANTY



PRE-FABRICATED SURE-WELD TPO

N.T.S RO-29 (CARLISLE DETAIL U-5C) 2



NOTES:

- REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-MOLDED PIPE FLASHING.
- TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
- PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
- INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12" (305mm) O.C. AND FLASHED WITH THERMOPLASTIC REINFORCED MEMBRANE / TPO CUT-EDGE SEALANT. REFER TO DETAIL U-8B.
- FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (457mm).
- ON MECHANICALLY FASTENED SYSTEMS, HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA EXTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.

PIPE- MOLDED PIPE FLASHING

N.T.S RO-24 (CARLISLE DETAIL U-8A) 3

LEGEND

- THERMOPLASTIC MEMBRANE
- APPROVED SUBSTRATE
- PERIMETER AREA
- FIELD AREA
- WOOD NAILER (BY OTHERS)

- CARLISLE FASTENER & Piranha Plate FASTENER PLATE

SEE NOTE(S)

APPLICABLE BONDING ADHESIVE. USE OF CAV-GRIP MAY ALSO BE USED FOR UP TO 20 YEAR WARRANTY

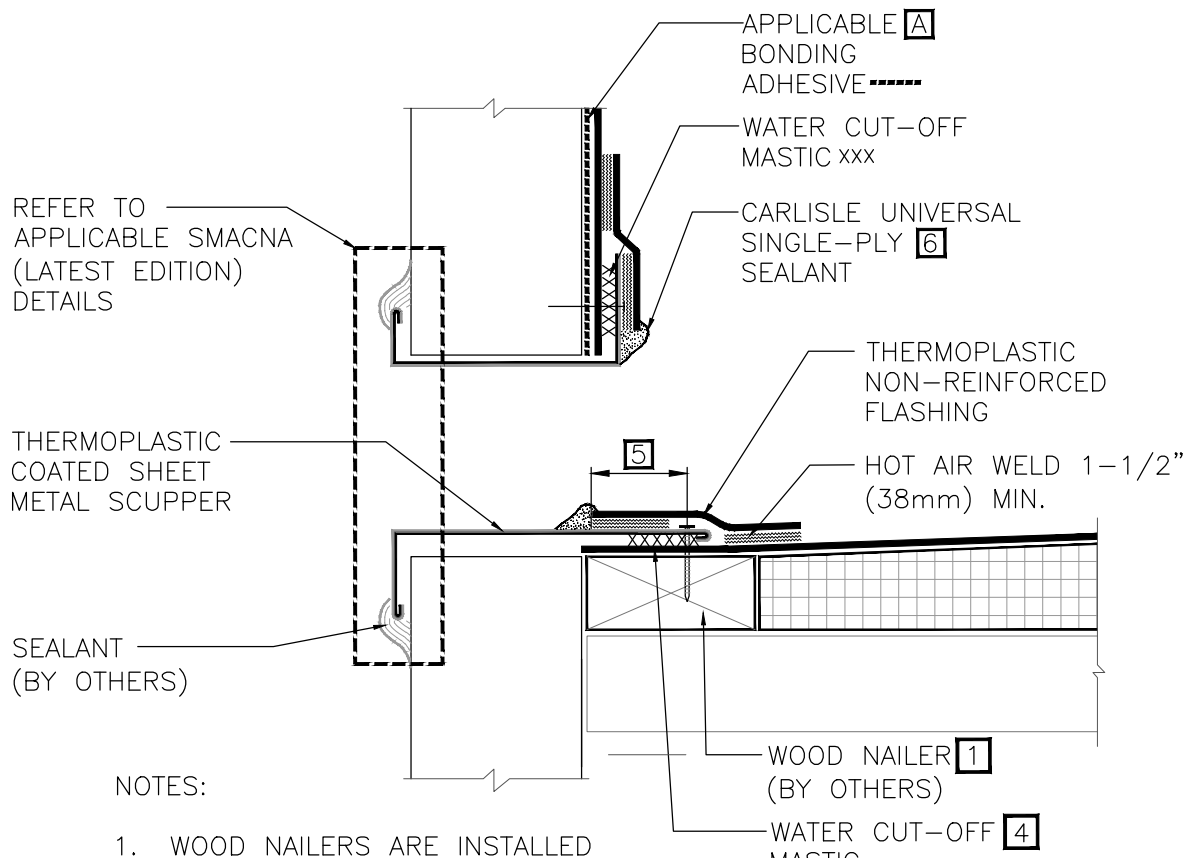
WATER CUT-OFF MASTIC- MUST BE HELD UNDER CONSTANT COMPRESSION.

GENERAL NOTES

- PROJECT SPECIFIC DETAILS SHALL SUPERCEDE TYPICAL DETAILING.
- THE GENERAL DETAILS SHALL BE FOLLOWED IN THE CONSTRUCTION.
- VERIFY EXISTING SUBSTRATES ARE ADEQUATE.

SCUPPER

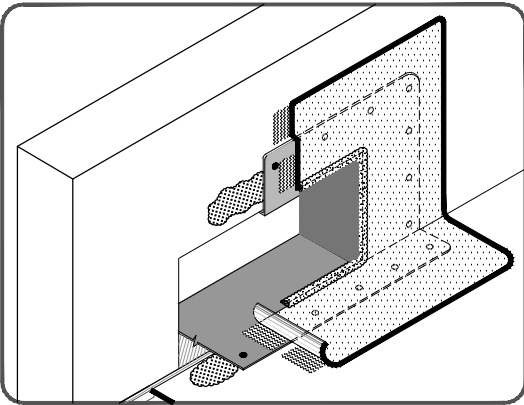
N.T.S RO-19 (CARLISLE DETAIL U-18A) 1



NOTES:

- WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
- INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
- METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS.
- WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
- SCUPPER FLANGES MUST BE TOTALLY COVERED BY NON-REINFORCED FLASHING WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEAD.
- UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. WHEN USING TPO MEMBRANE, TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

TPO MEMBRANE ONLY
[A] USE OF CAV-GRIP ADHESIVE MAY ALSO BE USED FOR UP TO 20 YEAR WARRANTY



6607
A5.2

GUARDBOUSES 75, 575, 975 / BLDGS 700, 900
MAINTENANCE AND ROOF REPAIRS

GENERAL DETAILS

CONT/CONS:	071126	TOWNSHIP:		SECTION:	
M. ID:	201062.04	DAT-HRZ:	**	VERT:	**
PHASE:	100%	PARCEL:		DRAWING SCALE:	AS NOTED

INNOVA
architects

950 Pacific Avenue, Suite 450
Tacoma, WA 98402
253-572-4903

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REGISTERED
PROFESSIONAL ARCHITECT
STATE OF WASHINGTON

Port of Tacoma
P.O. BOX 3837 TACOMA, WA 98401 (203)383-5841

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