

| CODE INFORMATION | |
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| BUILDING CODES | 2021 - INTERNATIONAL BUILDING CODE (IBC) |
| | 2021 - INTERNATIONAL EXISTING BUILDING CODE (IEBC) |
| FIRE CODE | 2021 - INTERNATIONAL FIRE CODE (IFC) |
| ELECTRIC CODE | 2023 - NATIONAL ELECTRIC CODE (NEC) |
| PLUMBING CODE | 2021 - INTERNATIONAL PLUMBING CODE (IPC) |
| MECHANICAL CODE | 2021 - INTERNATIONAL MECHANICAL CODE (IMC) |
| ENERGY CODE | 2021 - INTERNATIONAL ENERGY CONSERVATION CODE (IECC) |
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HOOPER CULTURAL HALL
HOOPER UT STAKE

SITE: 6150 WEST 5600 SOUTH - HOOPER, UTAH
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
PROJECT NUMBER: 502942823010101

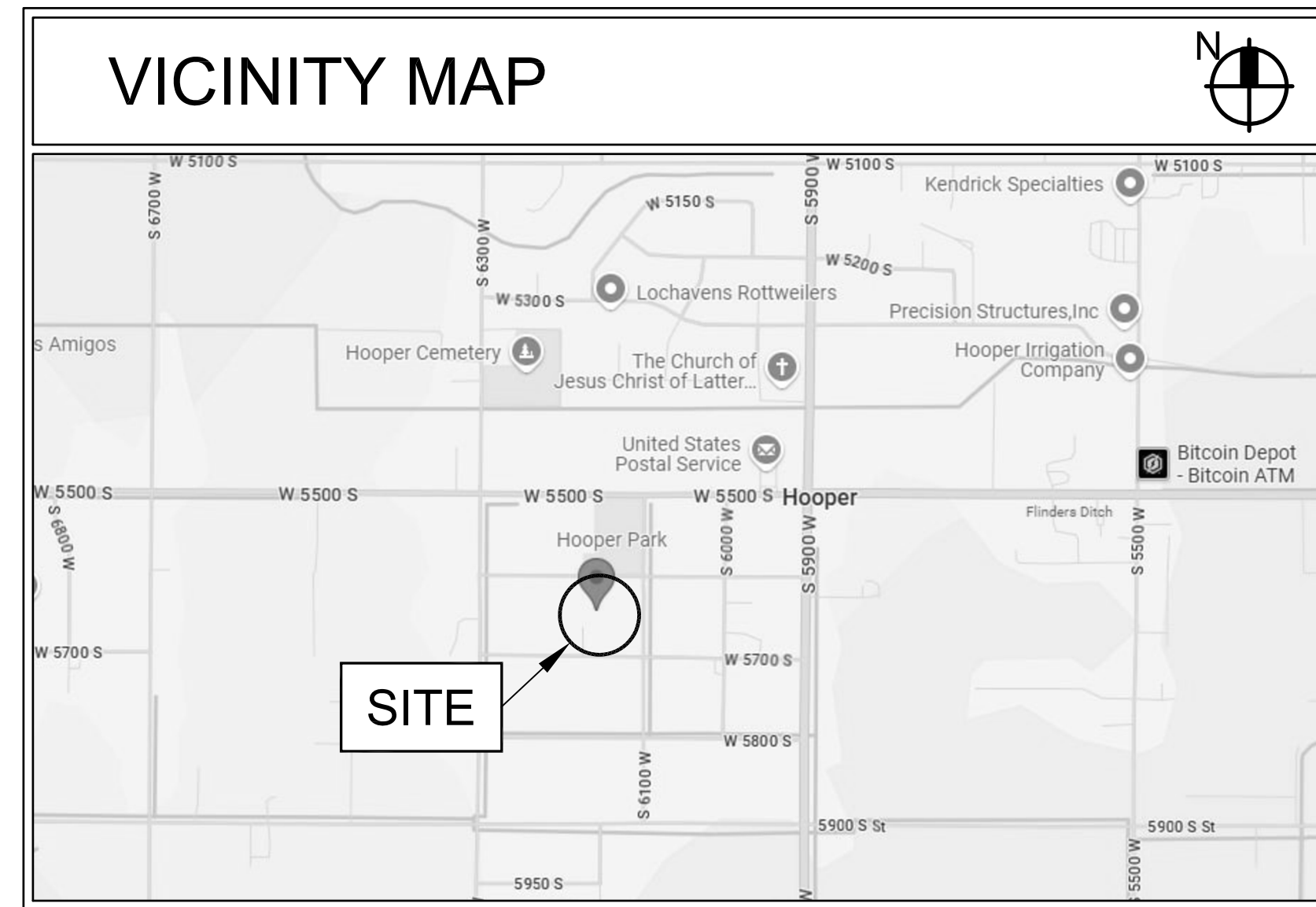
CODE ANALYSIS NOTES

SCOPE OF WORK (IEBC 602.1):
LEVEL 1 REMOVAL AND REPLACEMENT OF EXISTING MATERIALS USING
NEW MATERIALS THAT SERVE THE SAME PURPOSE.

REROOFING (IEBC 705):
COMPLIES WITH IEBC 705.3 ROOF REPLACEMENT AND IBC CHAPTER 15.

ROOFING SYSTEM
SEE SPECIFICATION 07 5419 PARAGRAPH 1.5:

- CLASS A FIRE CLASSIFICATION (IBC 1505.1)
- THERMAL PERFORMANCE: EXISTING INSULATION BELOW DECK
- WIND CRITERIA as per ASCE 7-10:
- Basic wind speed (V): 120 mph (Risk Category III)
- Wind exposure and importance factor (Iw): B



STANDARD SYMBOLS LEGEND

DETAIL

SECTION

SHEET REFERENCE

ROOM NUMBER

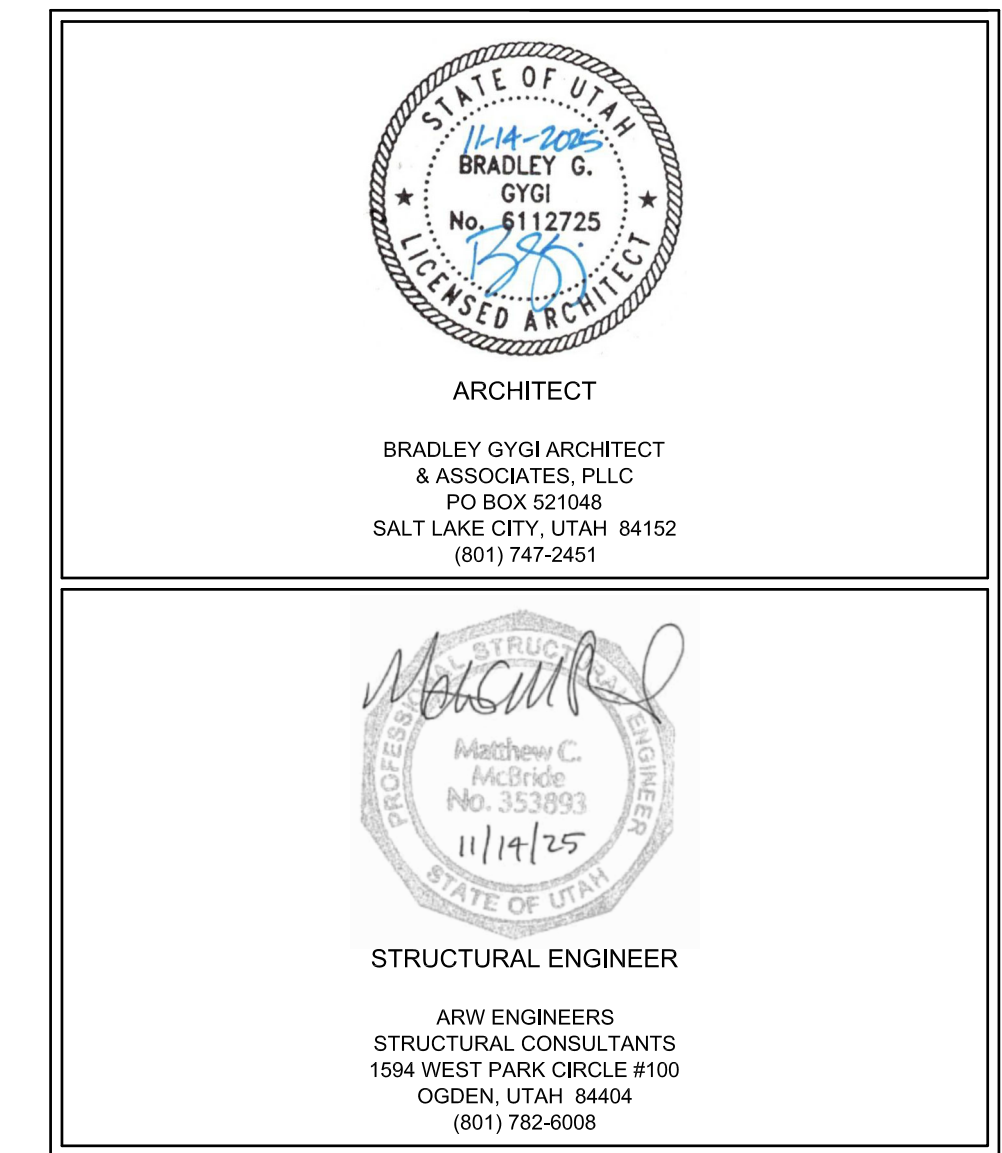
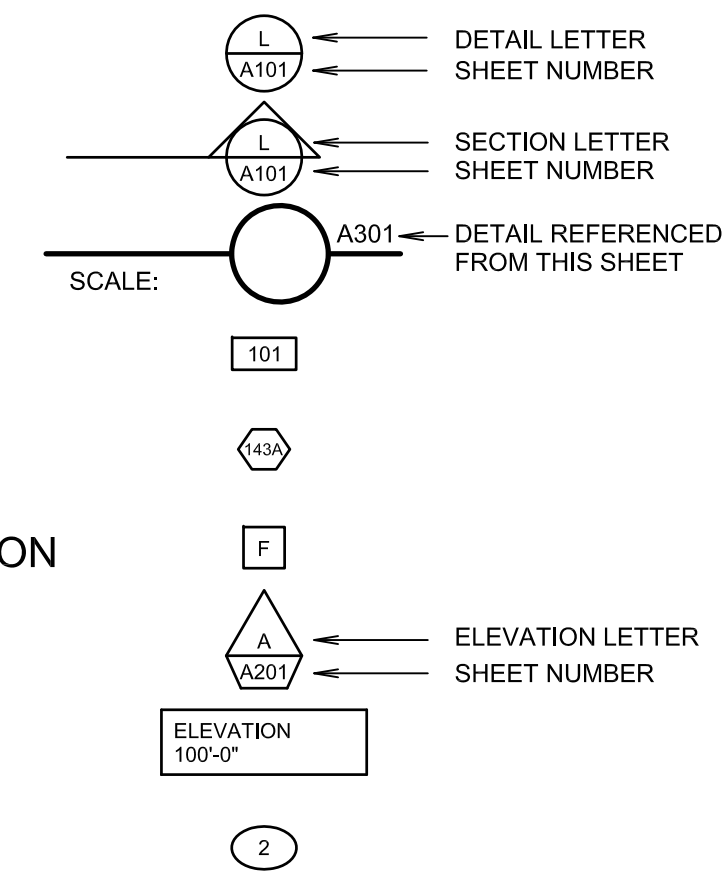
DOOR DESIGNATION

WINDOW DESIGNATION

ELEVATION (VIEW)

ELEVATION (DATUM)

MARKERBOARD



DRAWING INDEX

[illegible]

**Drakeley Gynj Architects
& Associates, pllc**
PO Box 521048 | Salt Lake City, UT 84152
801-747-2451

Q

AP:

6150 WEST 5600 SOUTH
HOOPER, UTAH

PROJECT FOR:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

PROJECT FOR:

PROJECT NUMBER:
02942823010101

DATE:
4 NOV 2025

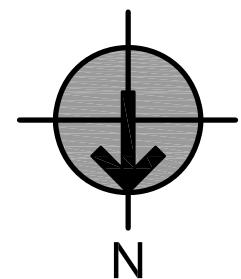
PROPERTY NUMBER:
029428

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| OWN BY: BGG | CHECKED: BGG |
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COVER AND INDEX SHEET

ET:

G001



WEST ELEVATION

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

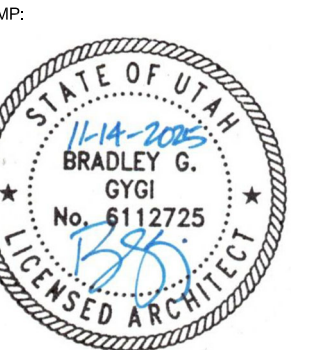
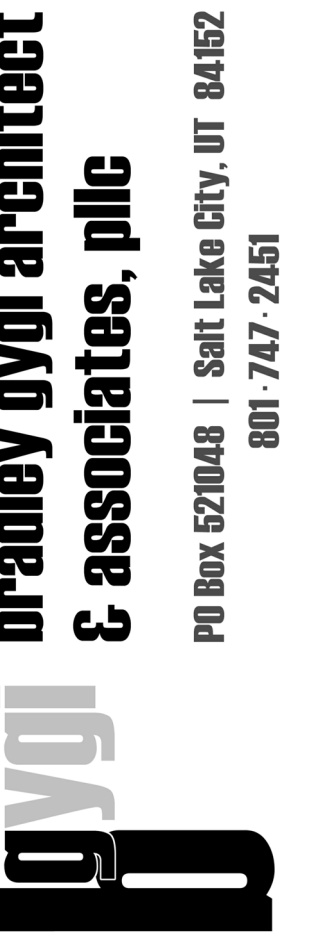
NORTH ELEVATION

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

KEYED NOTES

DEMOLITION WORK NOTES:

- ① REMOVE EXISTING LOW SLOPE SINGLE PLY MEMBRANE ROOFING SYSTEM, TAPERED INSULATION, COVER BOARDS - COMPLETE DOWN TO EXISTING ROOF DECK.
- ② REMOVE EXISTING EDGE METAL AND METAL FASCIA, TYPICAL ALL UPPER ROOF AREAS.
- ③ REMOVE EXISTING EDGE METAL AND METAL FASCIA, SOFFIT AND TRIM. TYPICAL ALL LOWER ROOF AREAS.
- ④ REMOVE EXISTING WALL FLASHINGS AT LOW ROOF-TO-WALL CONNECTION.
- ⑤ REMOVE EXISTING LADDER.



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HOOPER UT STAKE

6150 WEST 5600 SOUTH
HOOPER, UTAH

PROJECT FOR:
THE CHURCH OF
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OBJECT NUMBER:
02942823010101

EXPIRATION DATE:
14 NOV 2025

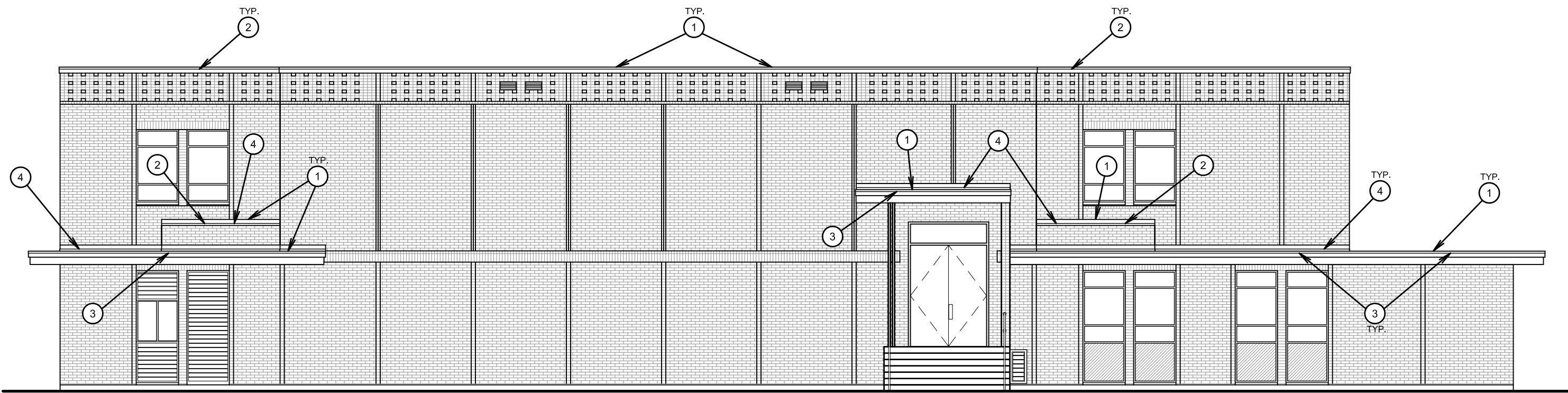
PROPERTY NUMBER:
029428

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| OWN BY: BGG | CHECKED: BGG |
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DEMOLITION EXTERIOR ELEVATIONS

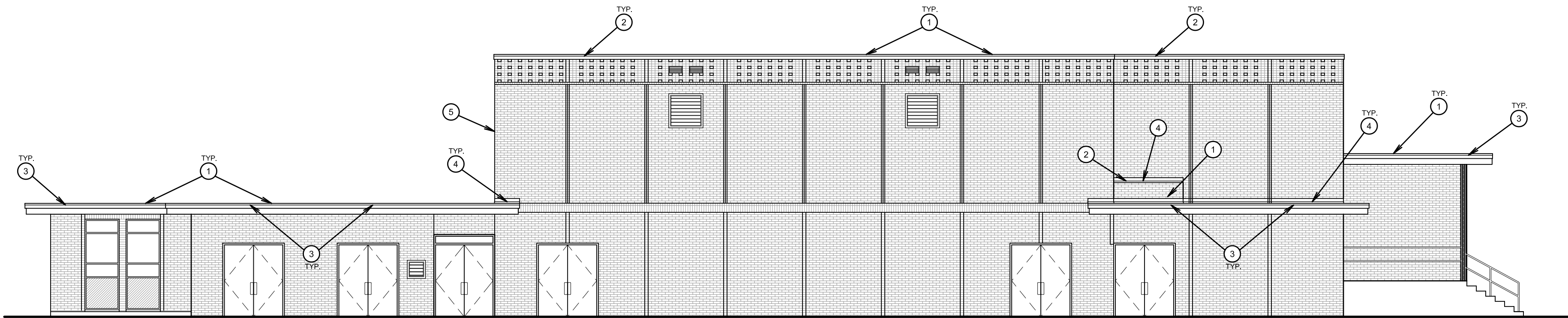
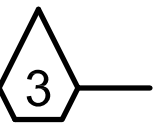
ET:

D201



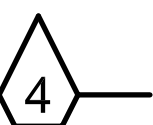
EAST ELEVATION

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



SOUTH ELEVATION

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



KEYED NOTES

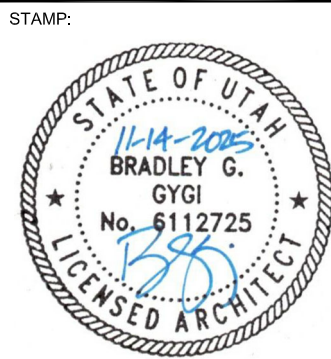
DEMOLITION WORK NOTES:

- 1 REMOVE EXISTING LOW SLOPE SINGLE PLY MEMBRANE ROOFING SYSTEM, TAPERED INSULATION, COVER BOARDS - COMPLETE DOWN TO EXISTING ROOF DECK.
- 2 REMOVE EXISTING EDGE METAL AND METAL FASCIA. TYPICAL ALL UPPER ROOF AREAS.
- 3 REMOVE EXISTING EDGE METAL AND METAL FASCIA, SOFFIT AND TRIM. TYPICAL ALL LOWER ROOF AREAS.
- 4 REMOVE EXISTING WALL FLASHINGS AT LOW ROOF-TO-WALL CONNECTION.
- 5 REMOVE EXISTING LADDER.

**bradley gygi architect
& associates, pllc**

gygi

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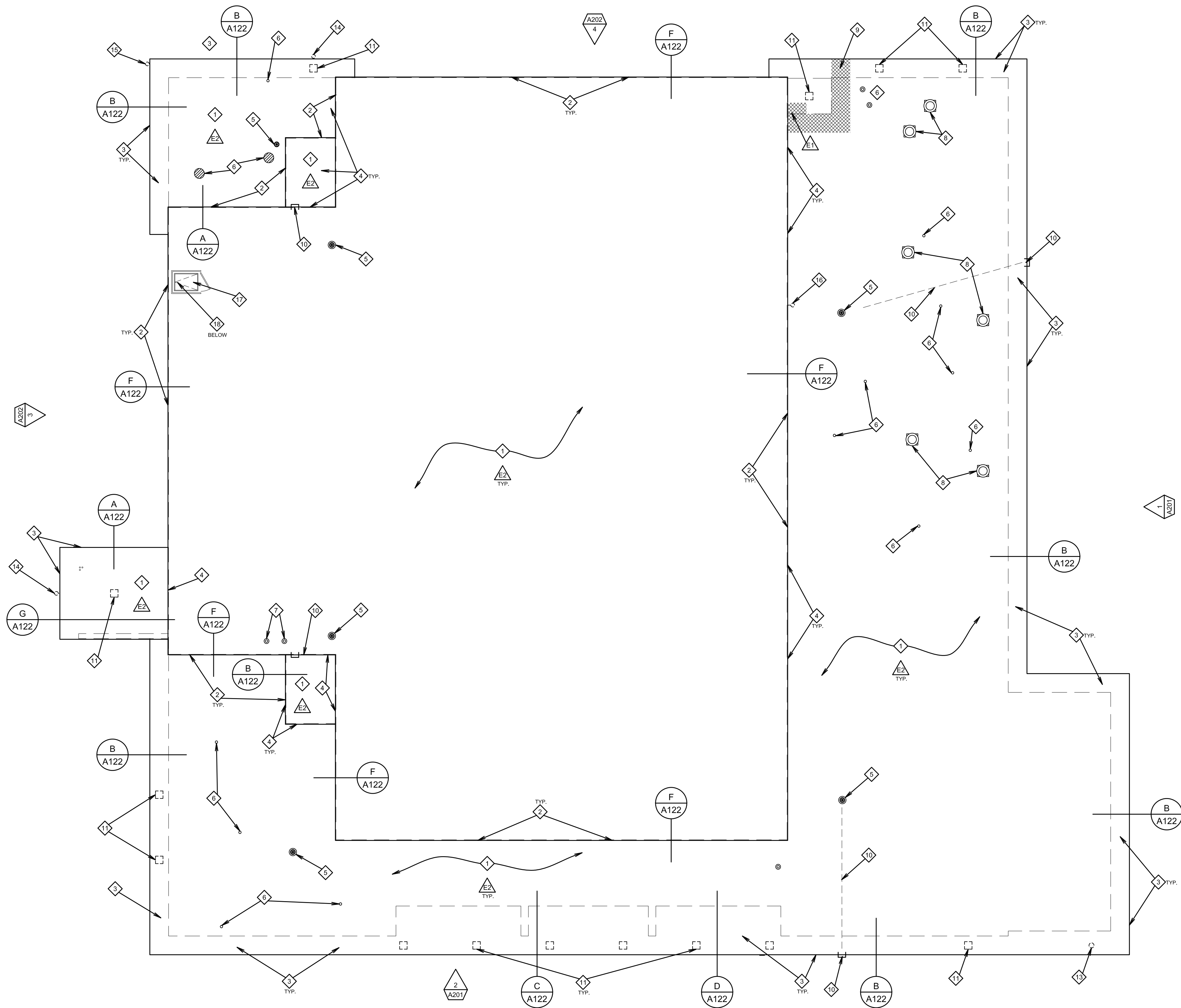
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| PROJECT NUMBER: 502942823010101 |
| DATE: 14 NOV 2025 |
| PROPERTY NUMBER: 5029428 |

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| DRAWN BY: BGG | CHECKED: BGG |
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SHEET TITLE:
DEMOLITION
EXTERIOR
ELEVATIONS

SHEET:
D202



NEW ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL ROOFING NOTES

- GENERAL:
- CONTRACTOR IS RESPONSIBLE TO KEEP AREAS OF ROOFING WORK FREE FROM WATER DAMAGE DURING CONSTRUCTION.
 - ALL ROOF AREAS ARE TO BE SWEEPED CLEAN AND KEPT CLEAN DURING DEMOLITION AND INSTALLATION.
 - SEE STRUCTURAL AND OTHER DRAWINGS FOR WORK WHICH OCCURS AT ROOF AND REQUIRES ADDITIONAL DEMOLITION FOR ACCESS. COORDINATE ALL WORK.
- ROOF DECK:
- ROOFING CONTRACTOR SHALL INSPECT THE ENTIRE ROOF DECK AREA TO ENSURE THAT IT HAS BEEN PROPERLY PREPARED TO RECEIVE NEW ROOFING. DO NOT PROCEED WITH ANY WORK UNTIL THE PROBLEMS HAVE BEEN CORRECTED.
 - AFTER COMPLETION OF DEMOLITION, SEISMIC, AND STRUCTURAL WORK, SECURE ALL DECKING MATERIALS PRIOR TO REROOFING.
- PENETRATIONS:
- UNLESS SHOWN OTHERWISE, ALL EXISTING VENTS, FLUES AND OTHER PENETRATIONS TO REMAIN. PRIOR TO REMOVAL OF ROOFING MATERIALS, INSTALL TEMPORARY METAL STRAP ON ALL EXISTING FLUES AND VENTS TO SECURE IN PLACE DURING CONSTRUCTION. PROTECT DURING CONSTRUCTION.
- EXISTING WORK:
- REMOVE AND REINSTALL EXISTING WORK ON ROOF AS REQUIRED TO ACCOMMODATE NEW WORK OR ROOFING.
 - PATCH OR REPLACE EXISTING INSULATION IN ATTIC AND CEILING SPACES TO MATCH WHERE DISTURBED OR REMOVED TO ACCOMMODATE STRUCTURAL OR OTHER WORK.
 - ALL EXISTING PLUMBING, MECHANICAL, ELECTRICAL WORK, CONDUITS, PIPES, WIRE, DUCTS, ETC. TO REMAIN SHALL BE SECURELY ANCHORED AND FUNCTION MAINTAINED. IF NECESSARY TO ACCOMMODATE NEW WORK, REMOVE AND REINSTALL OR REROUTE EXISTING WORK TO MAINTAIN FUNCTION.

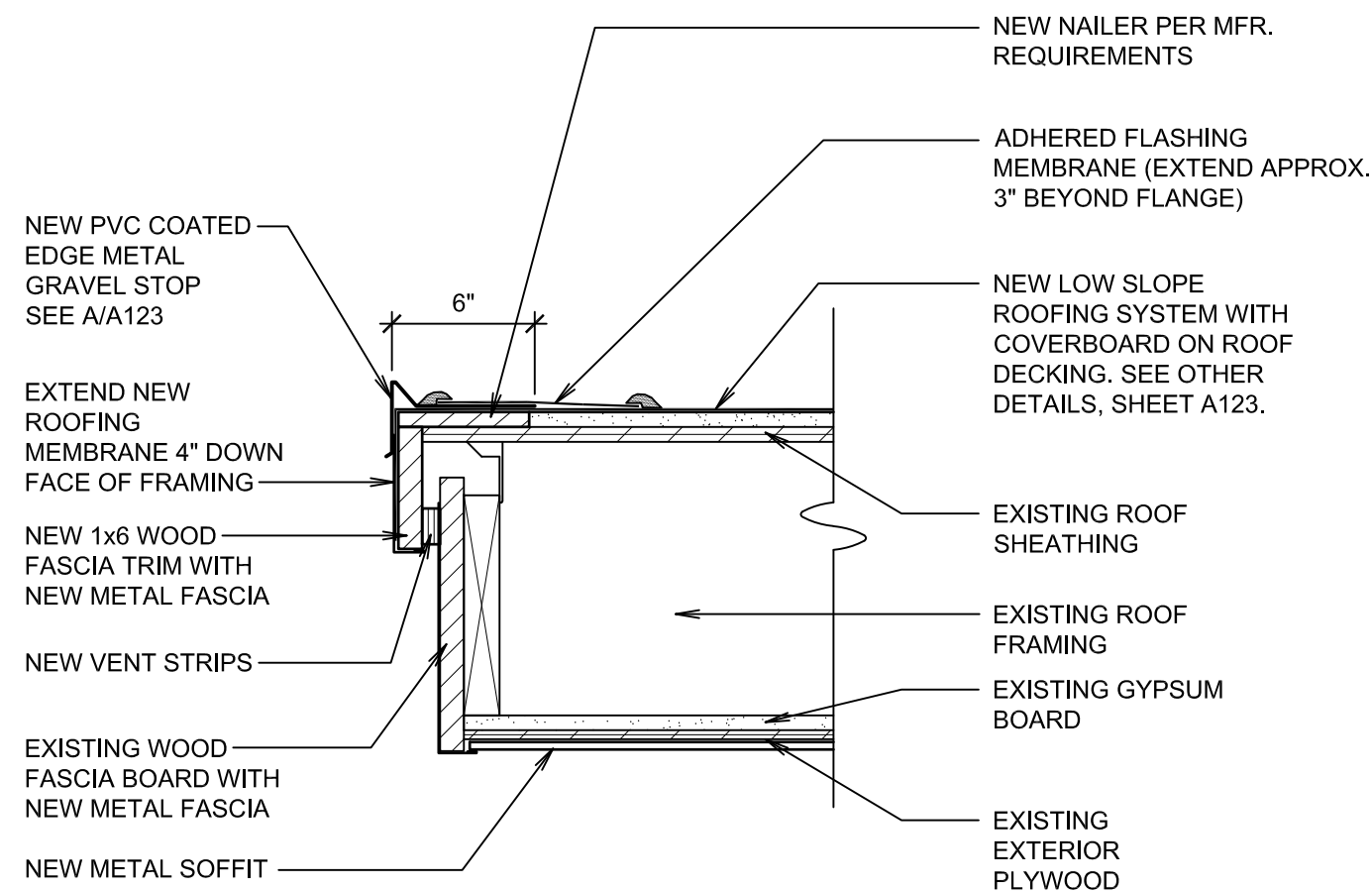
KEYED ROOF NOTES

EXISTING WORK NOTES:

- E1 EXISTING LADDER TO REMAIN. PROTECT IN PLACE.
- E2 COORDINATE WITH STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING. REMOVE EXISTING SHEATHING TO PROVIDE ACCESS FOR WORK BELOW ROOF DECK. TYPICAL ALL AREAS.

NEW WORK NOTES:

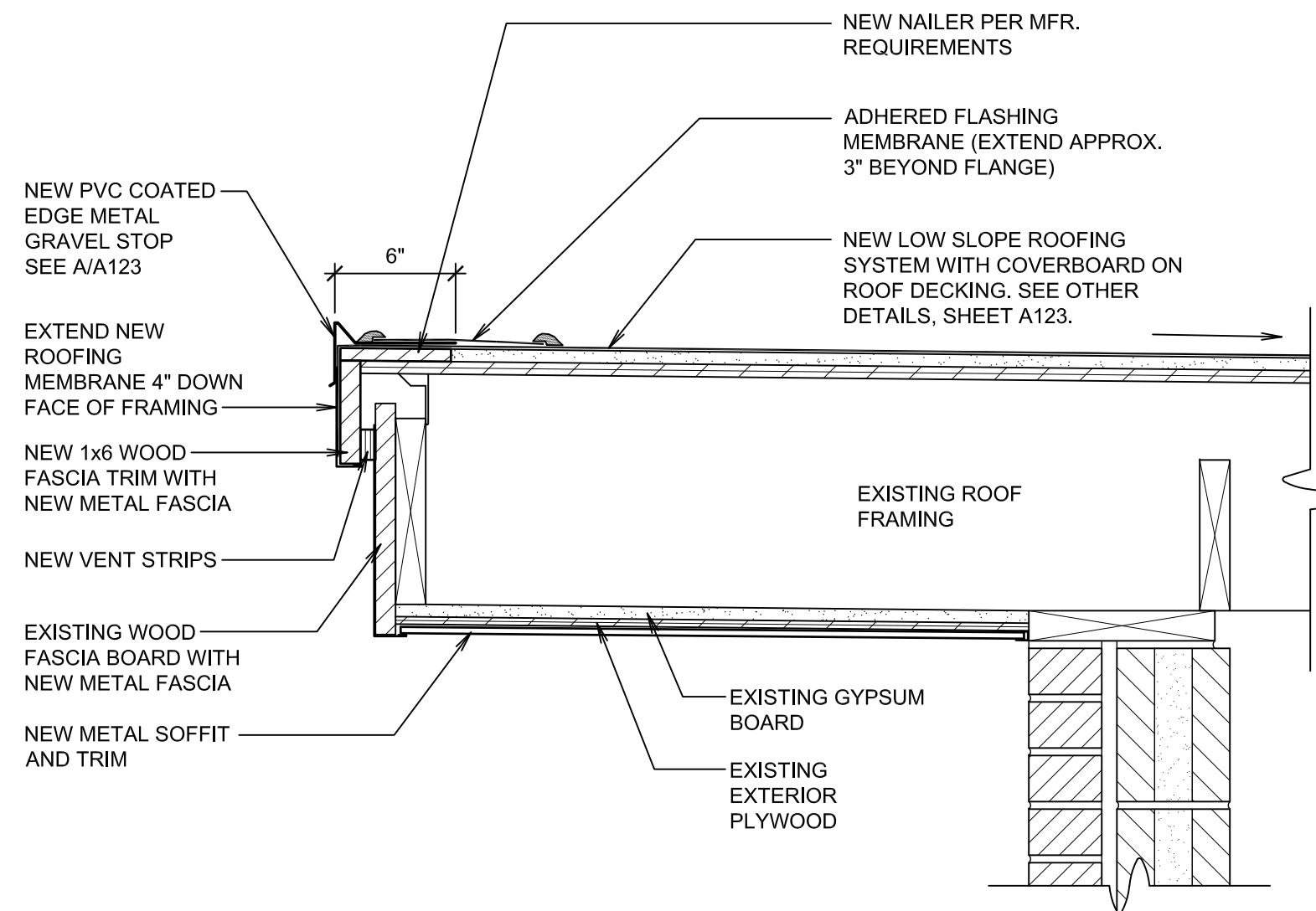
- 1 NEW FULLY ADHERED PVC ROOFING SYSTEM WITH GYPSUM COVER BOARD ON ROOF DECK. MECHANICALLY FASTENED. TYPICAL ALL ROOF AREAS. ADD NEW PERIMETER TREATED NAILERS.
- 2 NEW PVC COATED EDGE METAL AND METAL FASCIA. TYPICAL ALL MIDDLE AND HIGH ROOF AREAS. SEE E/F/A122.
- 3 NEW PVC COATED EDGE METAL, METAL FASCIA, SOFFIT, AND TRIM. TYPICAL ALL LOW ROOF AREAS AREAS. SEE A,B,C,D,G/A122.
- 4 NEW LOW ROOF TO WALL FLASHINGS. SEE C/A123.
- 5 NEW ROOF DRAIN RD-1. CONNECT TO EXISTING DRAIN PIPING BELOW. SEE F/A124.
- 6 EXISTING VENT OR MECHANICAL PIPING. SEE D/E/A124 FOR NEW FLASHING. EXTEND AS REQUIRED TO BE 10" MINIMUM ABOVE ROOF LINE.
- 7 2 NEW CONCENTRIC VENT TERMINATIONS WHERE EXISTING WERE IN SINGLE PENETRATION. SEE D/E/A124 FOR FLASHINGS. 10" MINIMUM ABOVE ROOF LINE.
- 8 REINSTALL SALVAGED EXISTING EXHAUST FAN, PENTHOUSE OR MECHANICAL EQUIPMENT ON EXISTING CURB. SEE F,G/A123 FOR NEW CURB FLASHINGS.
- 9 NEW SCUPPER. SEE G,H/A124.
- 10 CREATE CHANNEL IN TAPERED INSULATION FROM ROOF DRAIN TO SCUPPER WHERE REQUIRED SO SCUPPER OUTLET IS 2" HIGHER THAN ROOF DRAIN.
- 11 NEW LIGHT FIXTURE RECESSED IN NEW SOFFIT IN EXISTING LOCATION.
- 12 EXISTING CONDUIT ON ROOF. RUN UNDER ROOF DECK WHILE ROOF IS OPEN. IF NOT POSSIBLE TO RUN UNDER DECK, PROTECT IN PLACE AND INSTALL NEW FLASHINGS AT PENETRATIONS. SEE C/A124.
- 13 REINSTALL OR PROTECT IN PLACE EXISTING CAMERA IN NEW SOFFIT.
- 14 REINSTALL OR PROTECT IN PLACE EXISTING PHOTOCELL ON NEW FASCIA.
- 15 REINSTALL OR PROTECT IN PLACE EXISTING IRRIGATION SYSTEM SENSOR ON NEW FASCIA.
- 16 REINSTALL OR PROTECT IN PLACE EXISTING WALL-MOUNTED ANTENNA OR SIMILAR EQUIPMENT.
- 17 NEW ROOF HATCH WITH SAFETY RAIL. FRAME IN NEW OPENING IN ROOF FRAMING AND PATCH EXISTING CEILING FINISHES. SEE A/B/A301.
- 18 NEW WALL-MOUNTED METAL LADDER WITH LOCKABLE DOOR AND SAFETY POST AT PLATFORM AREA BELOW. SEE C/A301. PATCH EXISTING FINISHES TO MATCH WHERE DISTURBED.



TYPICAL LOW ROOF EDGE DETAIL

SCALE: 1 1/2" = 1'-0"

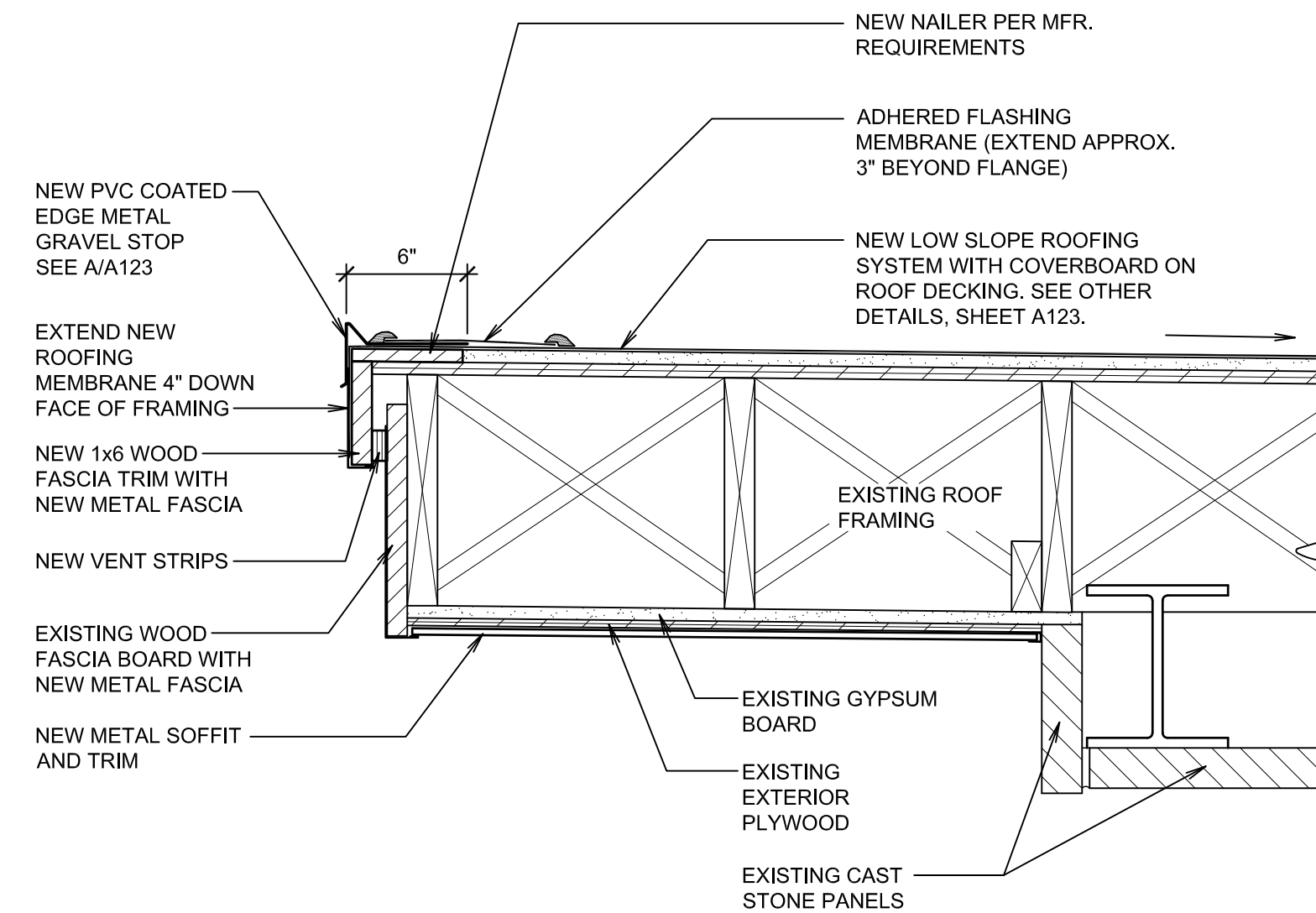
A



LOW ROOF EDGE DETAIL

SCALE: 1 1/2" = 1'-0"

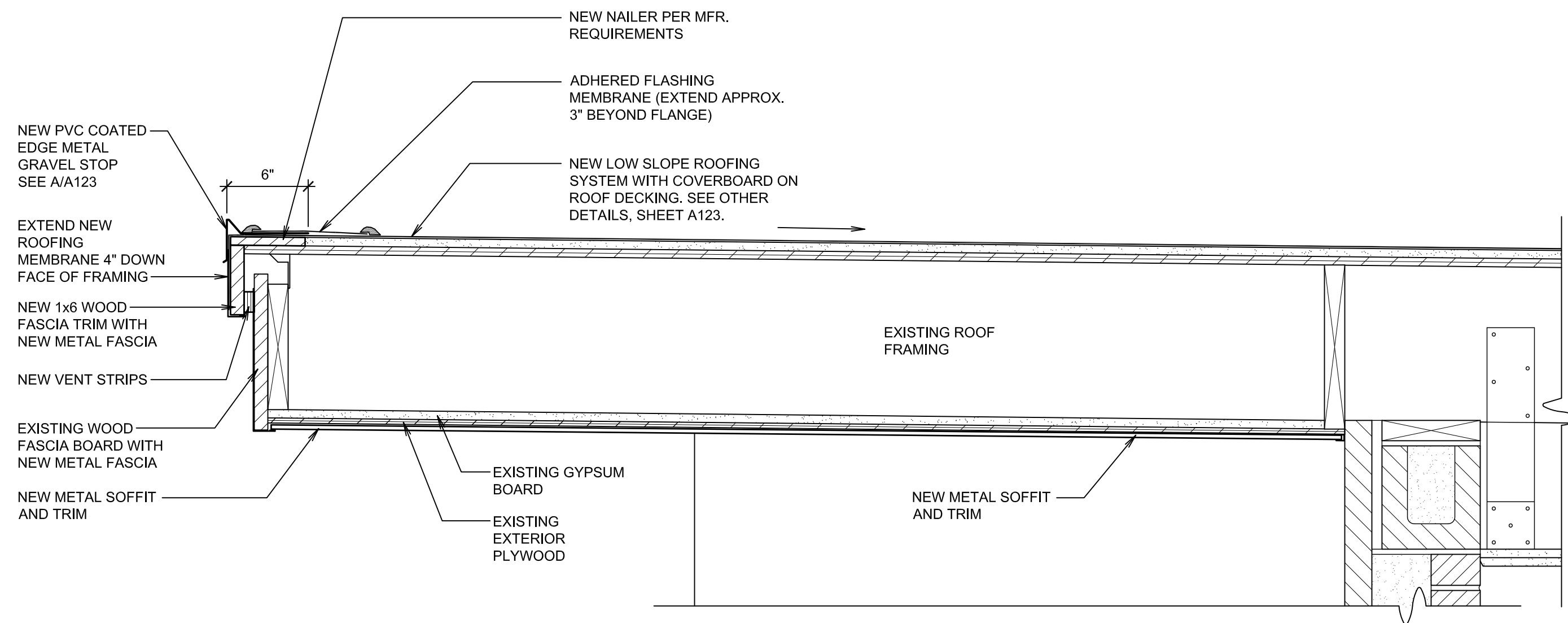
B



LOW ROOF ENTRY EDGE DETAIL

SCALE: 1 1/2" = 1'-0"

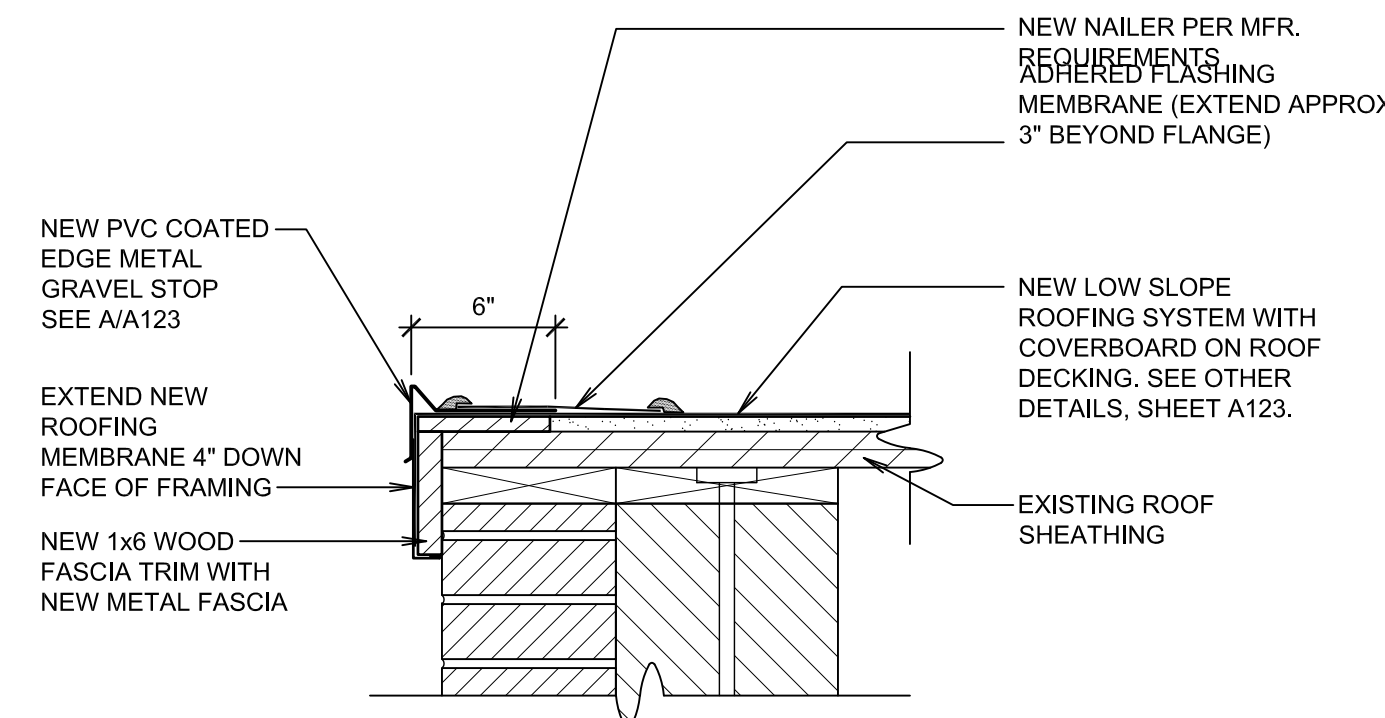
C



LOW ROOF EDGE DETAIL AT ENTRY

SCALE: 1 1/2" = 1'-0"

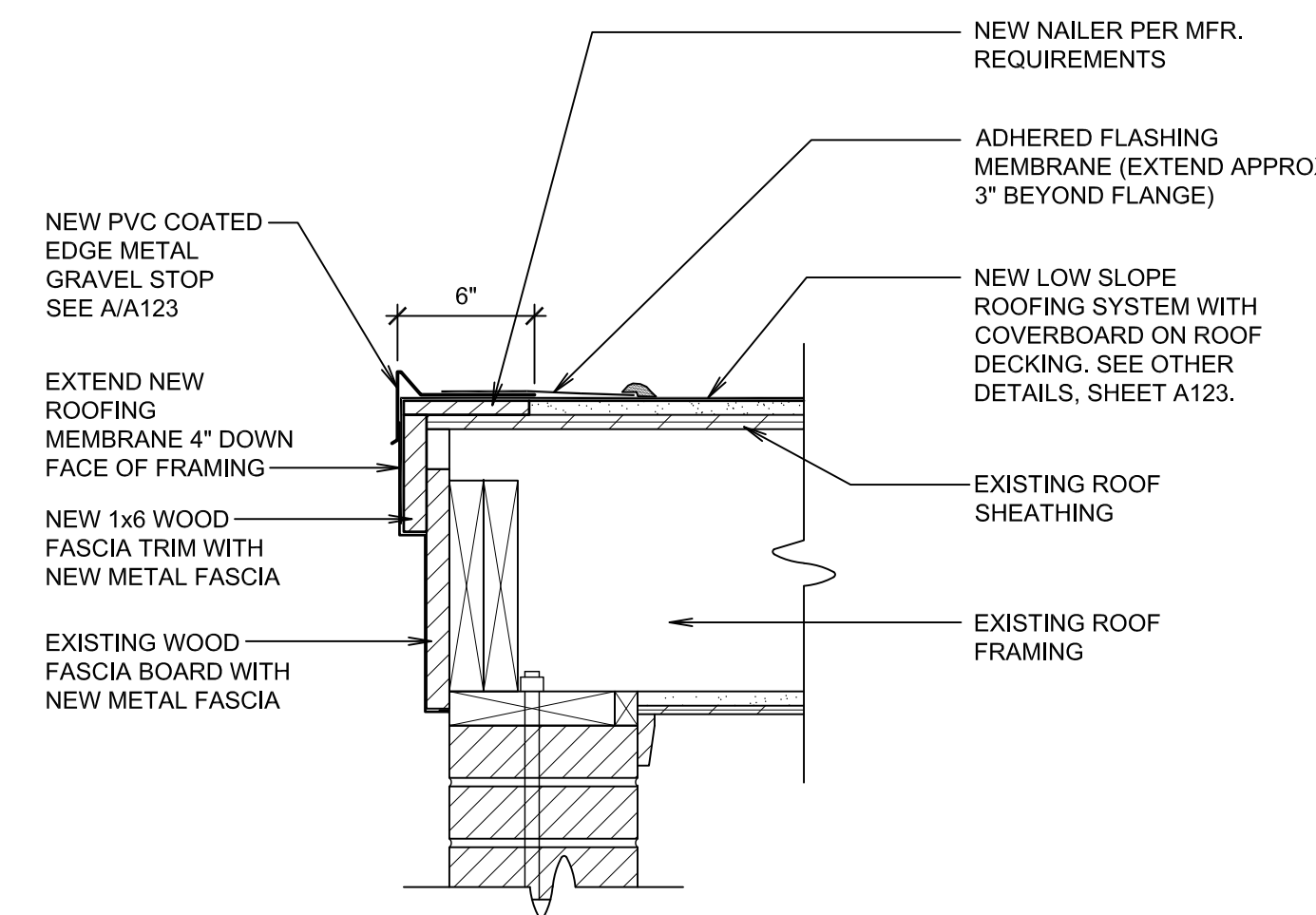
D



TYPICAL MIDDLE ROOF EDGE DETAIL

SCALE: 1 1/2" = 1'-0"

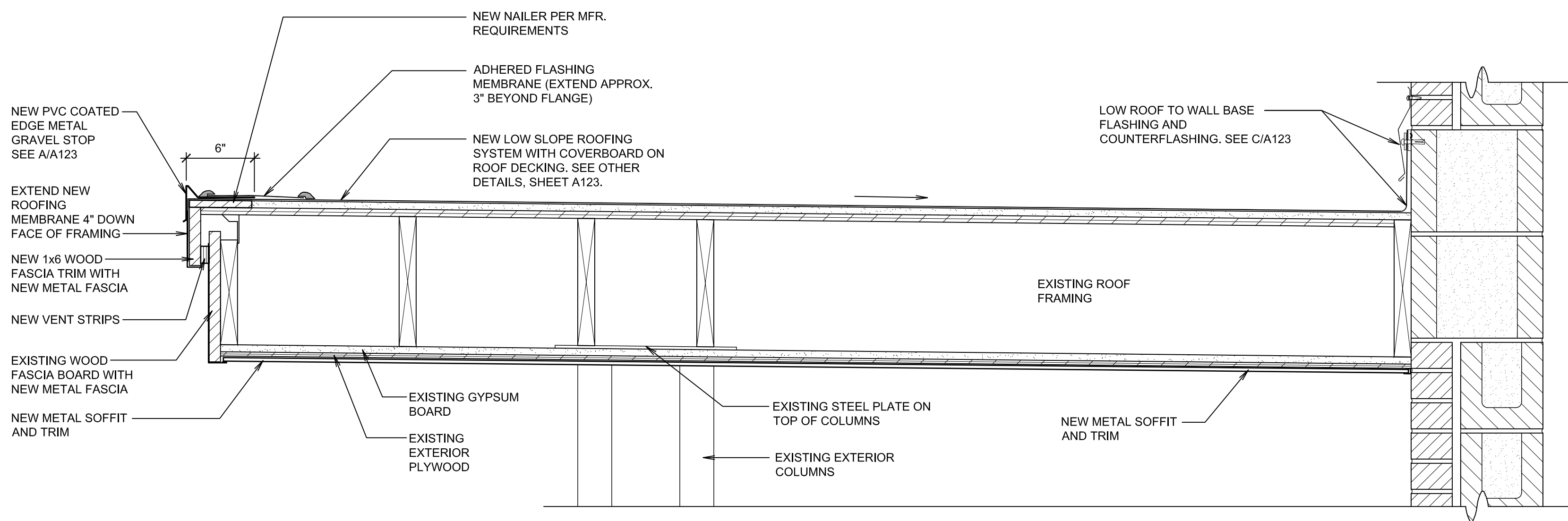
E



TYPICAL HIGH ROOF EDGE DETAIL

SCALE: 1 1/2" = 1'-0"

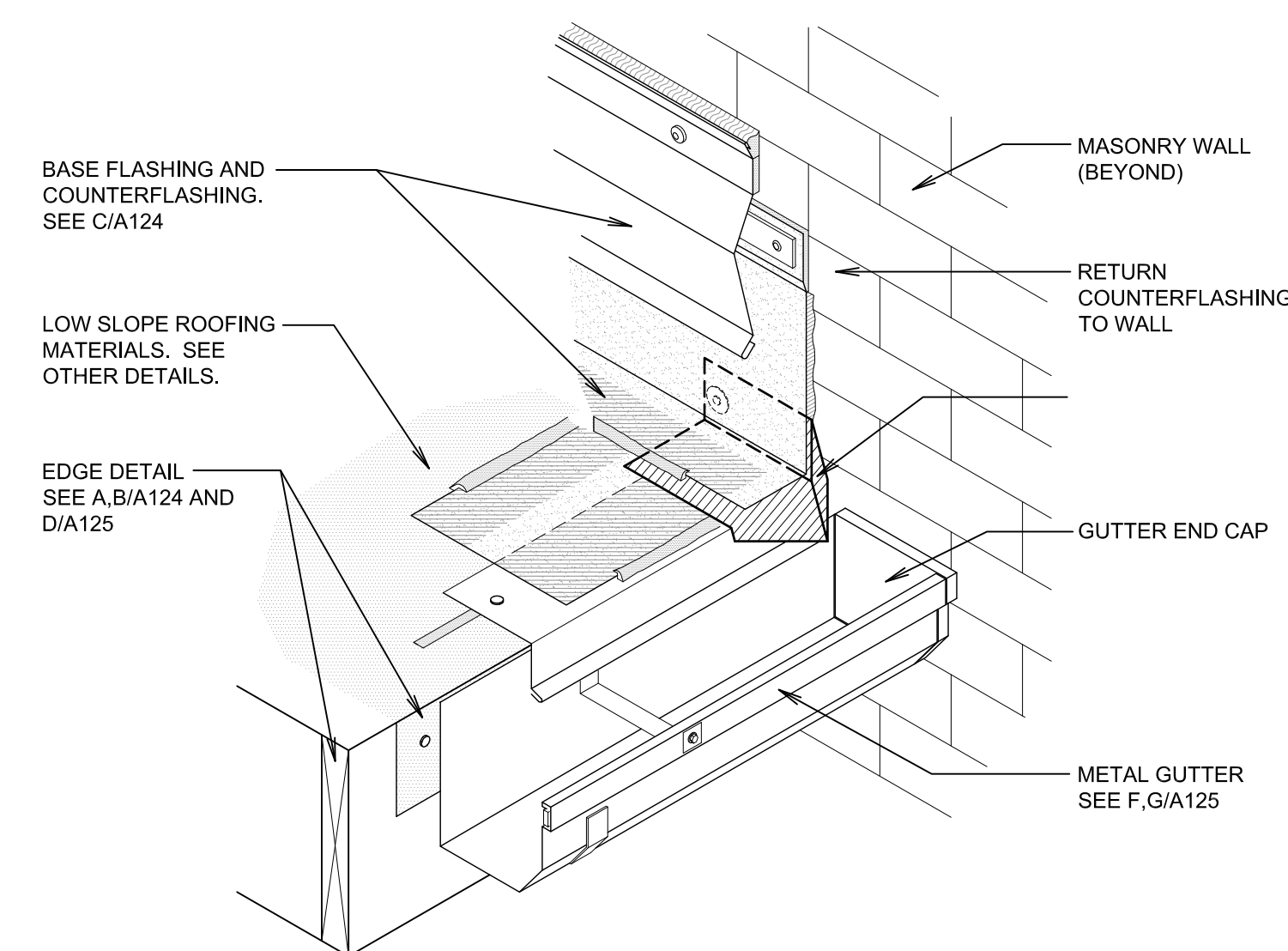
F



LOW ROOF EDGE DETAIL AT CANOPY

SCALE: 1 1/2" = 1'-0"

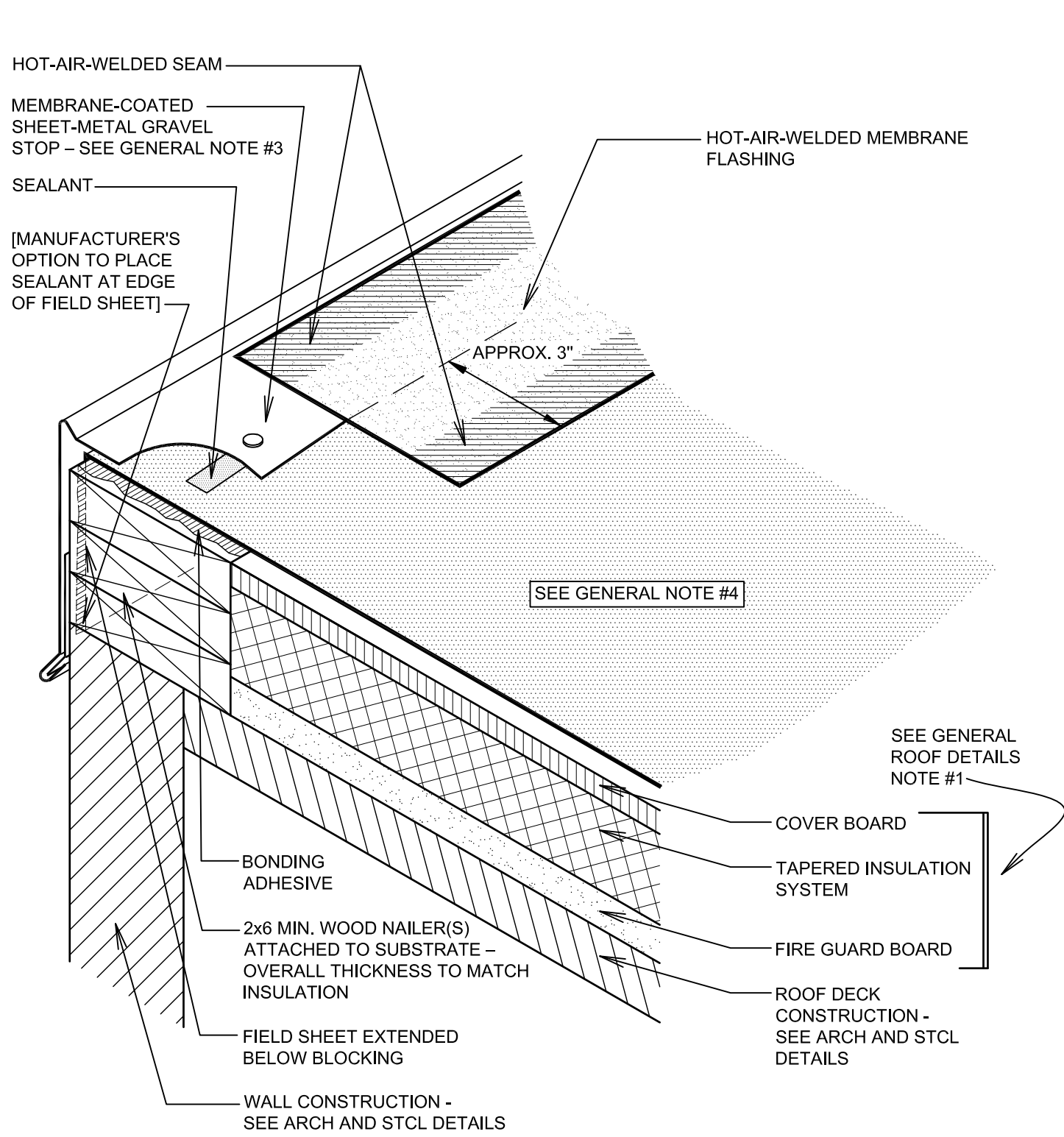
G



KICK OUT FLASHING

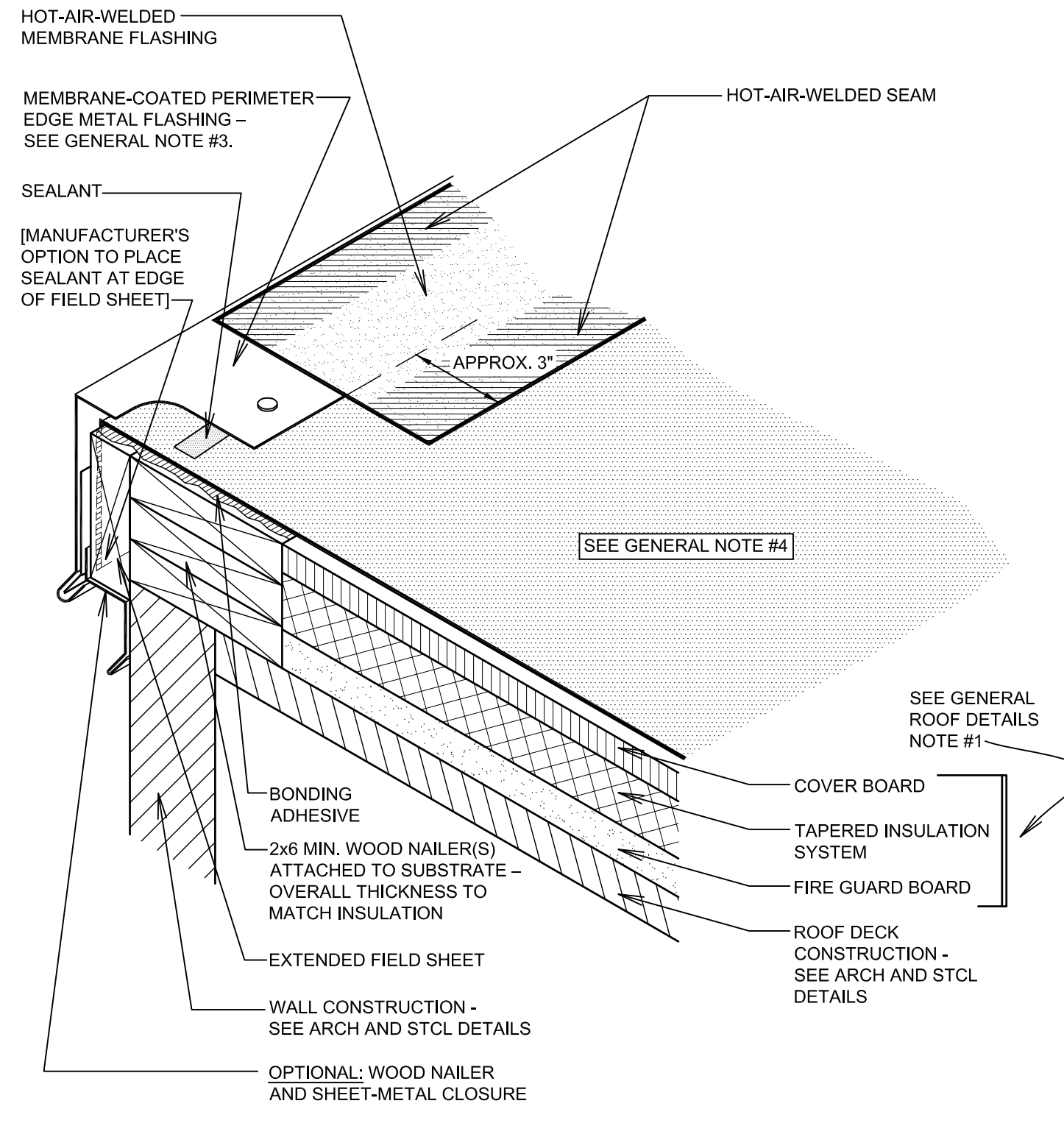
NOT TO SCALE

H



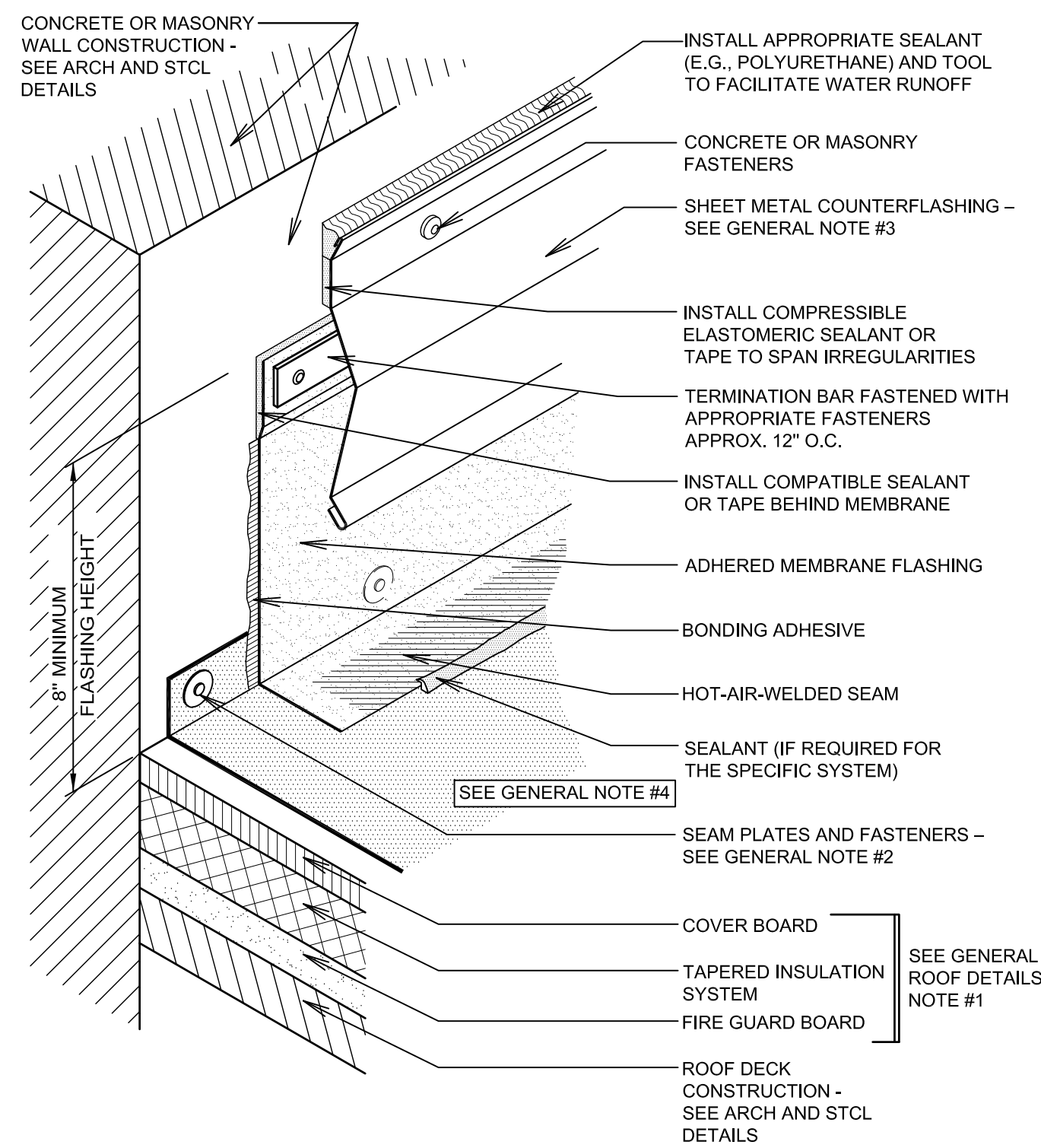
EMBEDDED METAL EDGE FLASHING
(GRAVEL STOP) WITH MEMBRANE COATING

SCALE: NONE



DRAINING PERIMETER EDGE METAL
WITH MEMBRANE COATING

SCALE: NONE

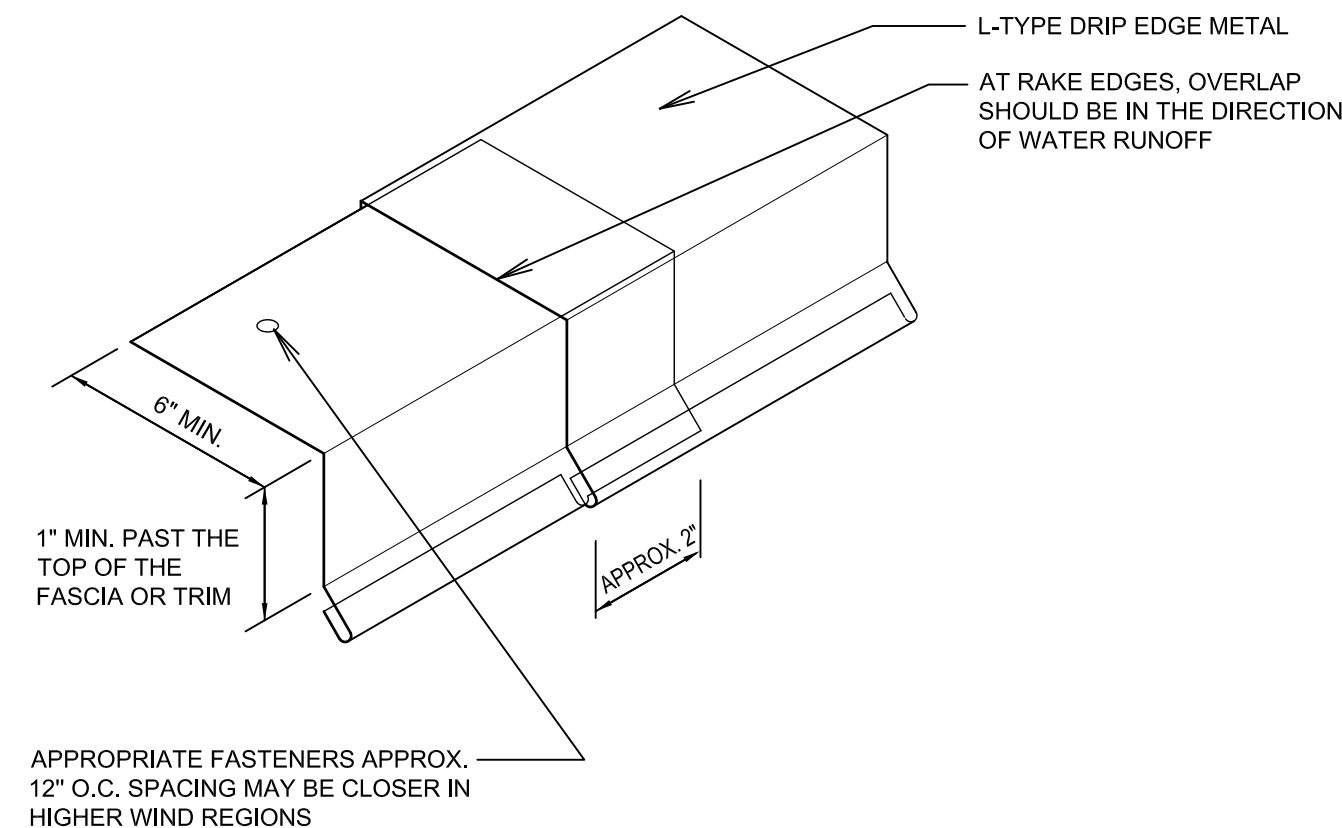


BASE FLASHING WITH
SURFACE-MOUNTED COUNTER FLASHING

SCALE: NONE

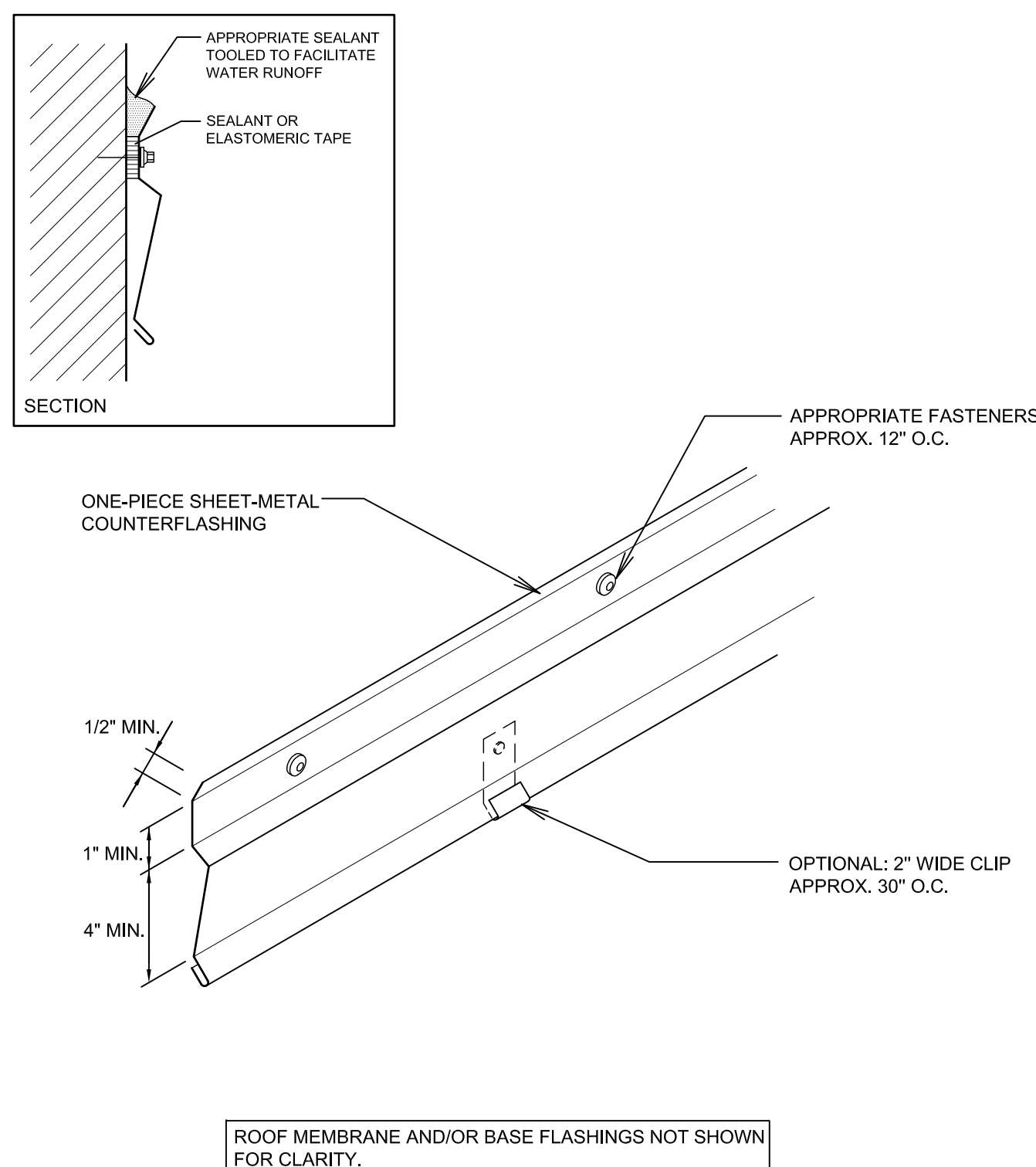
GENERAL NOTES FOR ROOFING DETAILS:

1. REFER TO ROOF PLAN, SHEET A121 AND MEMBRANE ROOFING SPECIFICATIONS IN SECTIONS 07 5000 FOR MEMBRANE TYPE AND THICKNESS, AND COVER BOARD, TAPERED INSULATION AND FIRE GUARD BOARD THICKNESSES AND REQUIREMENTS.
2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR COPINGS, FASCIA CAPS, GRAVEL STOPS, PERIMETER EDGE METAL, COUNTER FLASHINGS, COVERS, PENETRATION POCKETS, SCUPPERS, EXPANSION JOINT COVERS AND SHEET METAL HOODS.
4. REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS GENERALLY HAVE SPECIFIC ATTACHMENT REQUIREMENTS FOR PERIMETER LOCATIONS, PENETRATION LOCATIONS AND ROOF DRAINS.
5. REFER TO THE NRCA Roofing Manual: Membrane Roof Systems—2015, INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



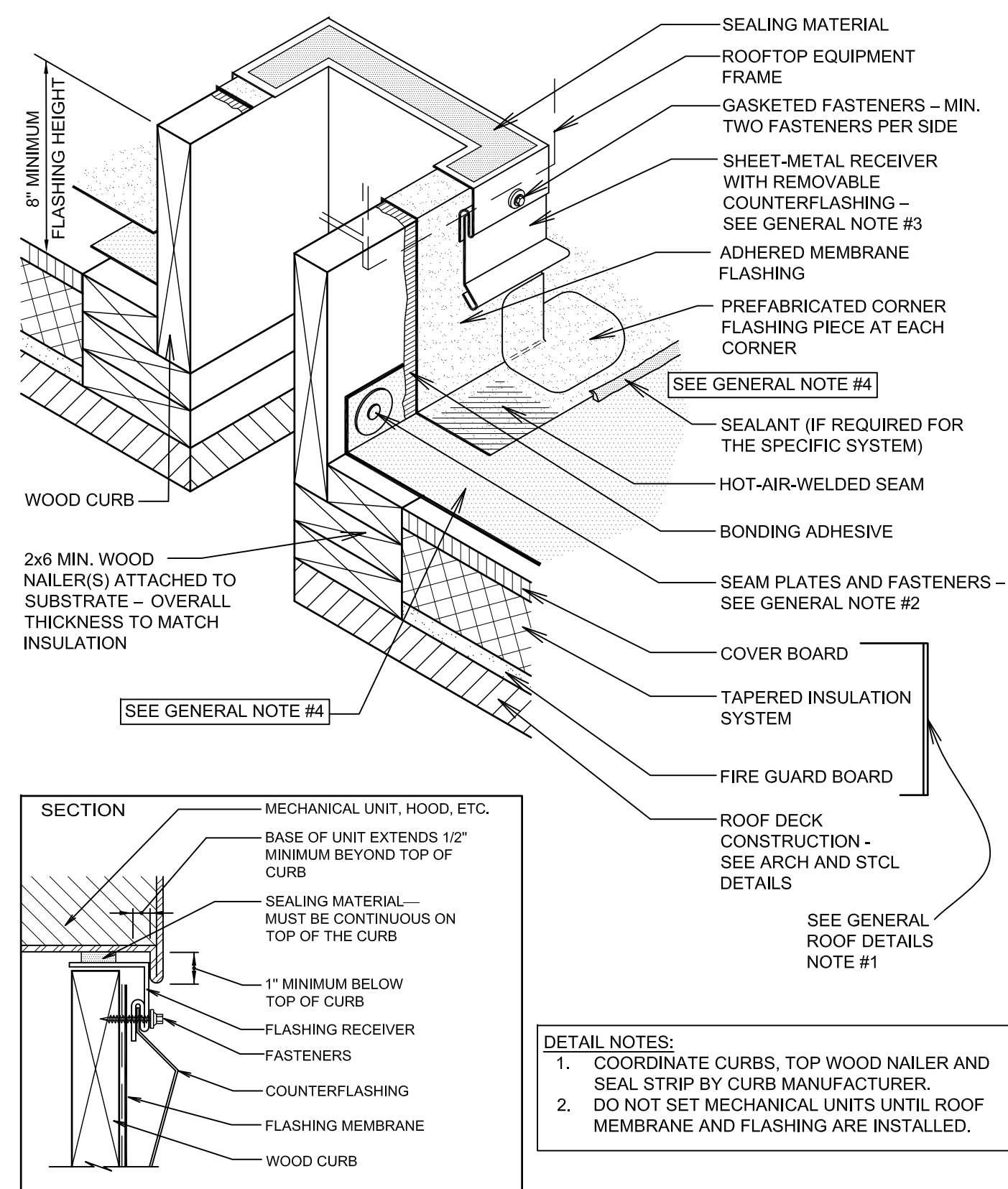
DRIP EDGE METAL

SCALE: NONE



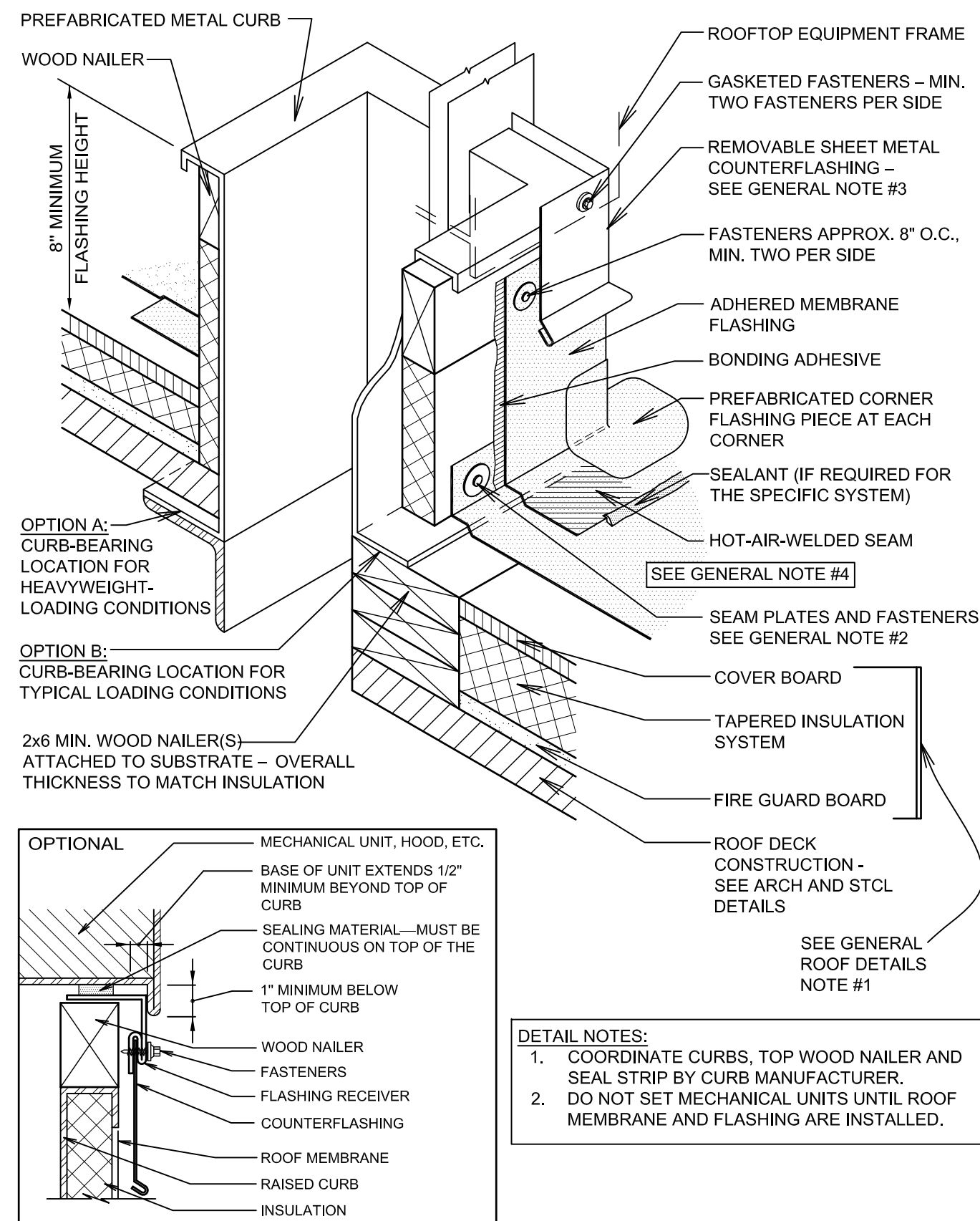
ONE PIECE REGLET
SURFACE-MOUNTED COUNTERFLASHING

SCALE: NONE



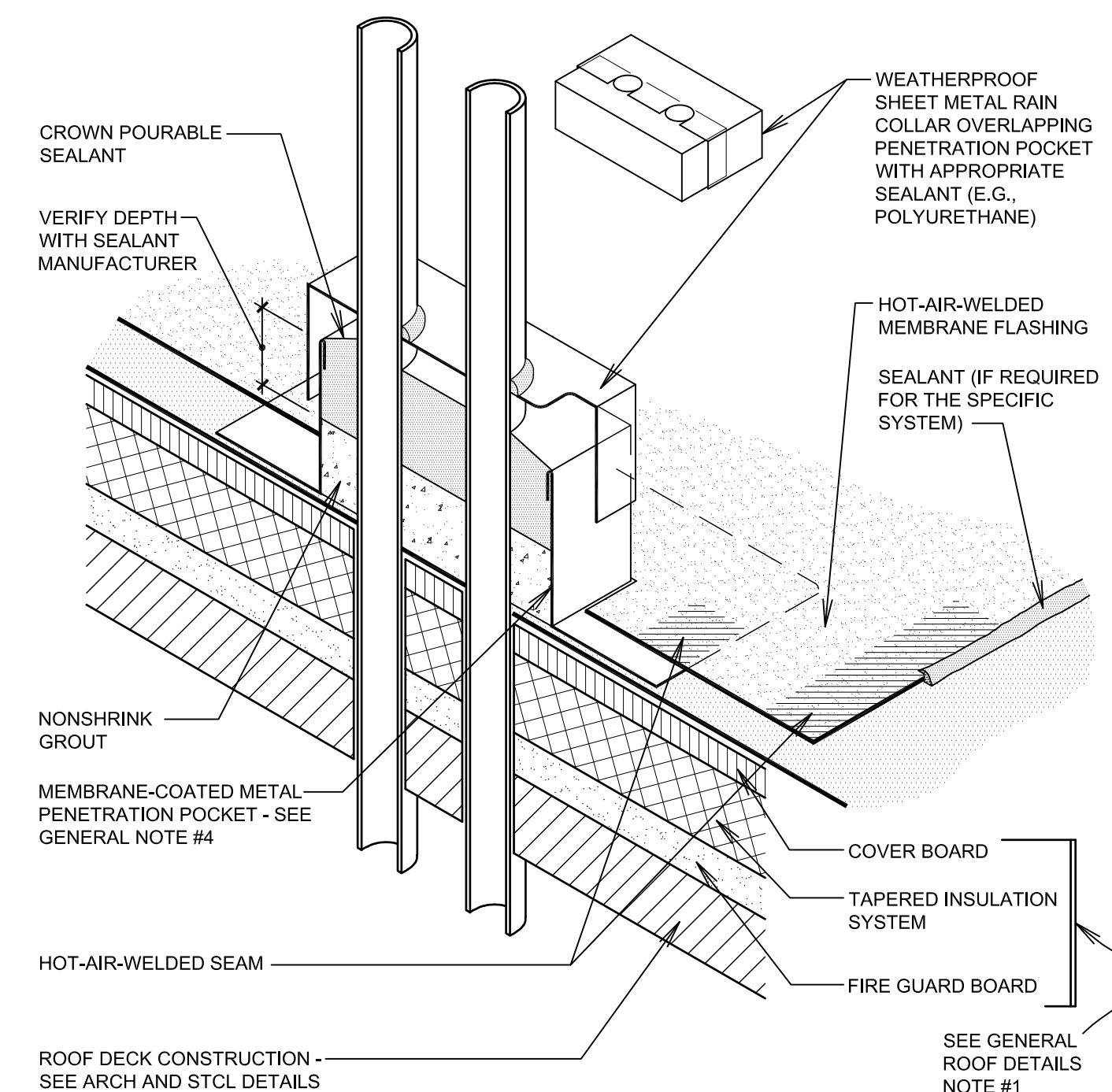
BASE FLASHING AT WOOD CURB

SCALE: NONE



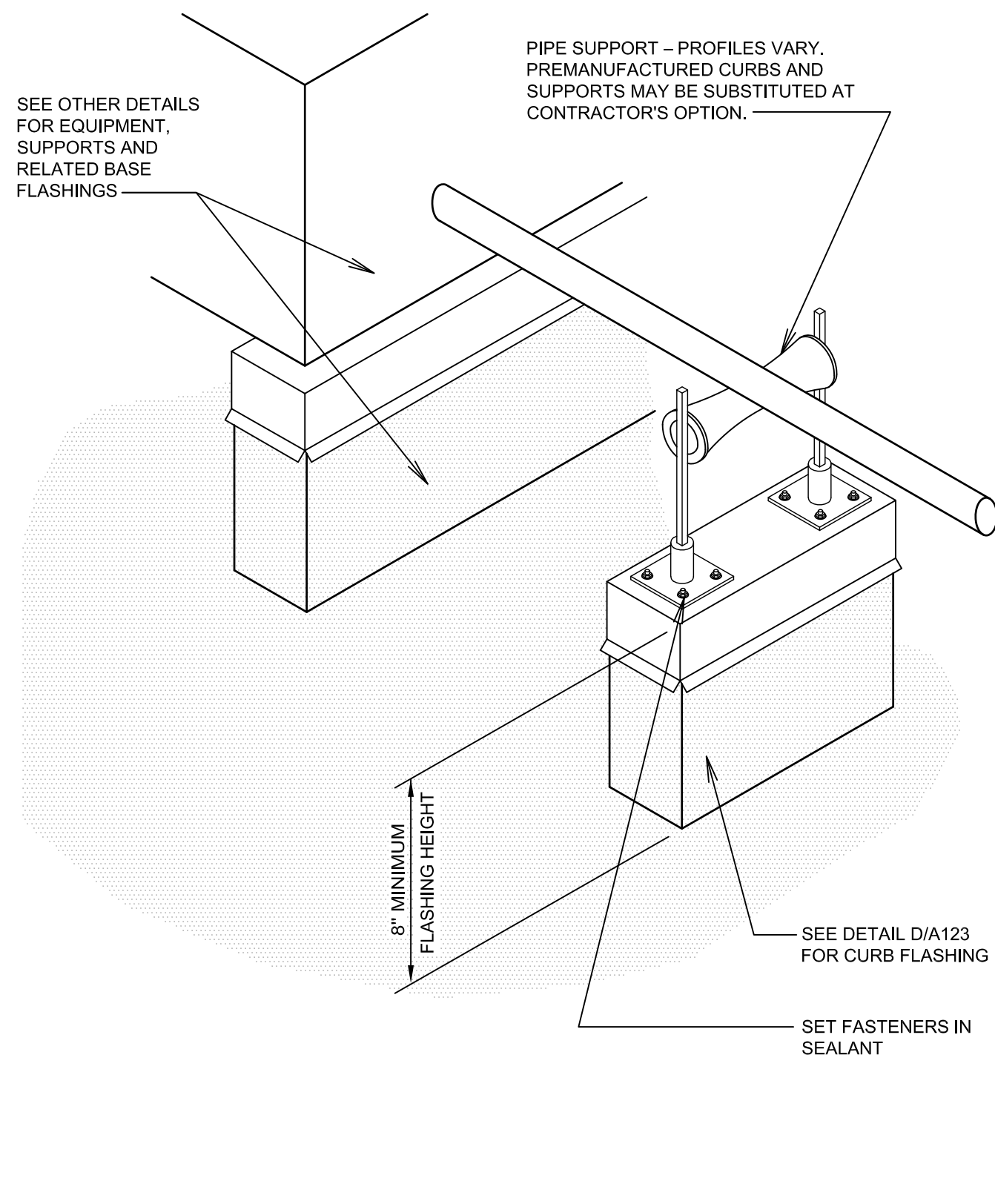
BASE FLASHING AT
PREFABRICATED METAL CURB

SCALE: NONE



MEMBRANE-COATED METAL PENETRATION
POCKET - DOUBLE PENETRATION

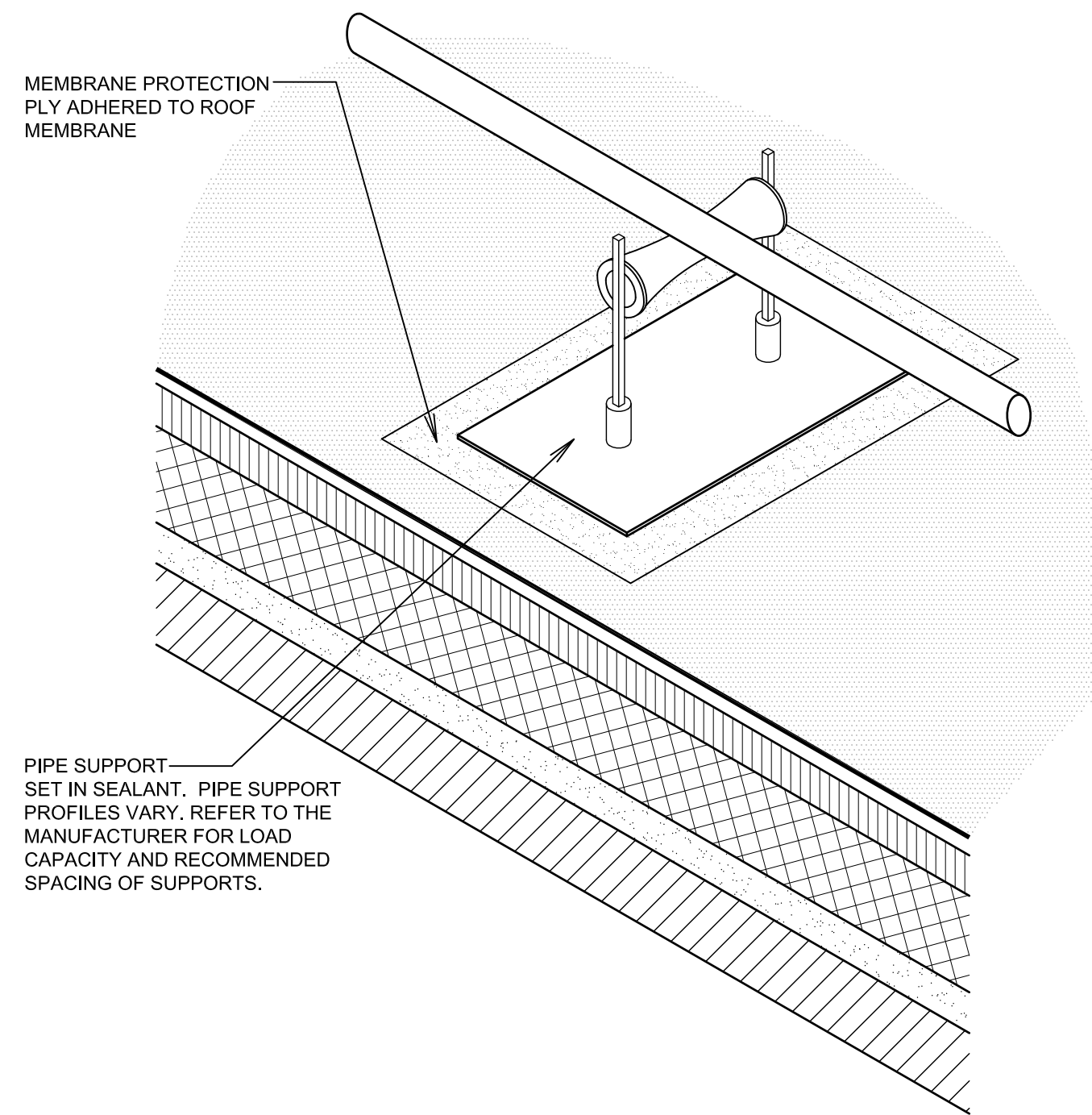
SCALE: NONE



PIPE SUPPORT CURB

SCALE: NONE

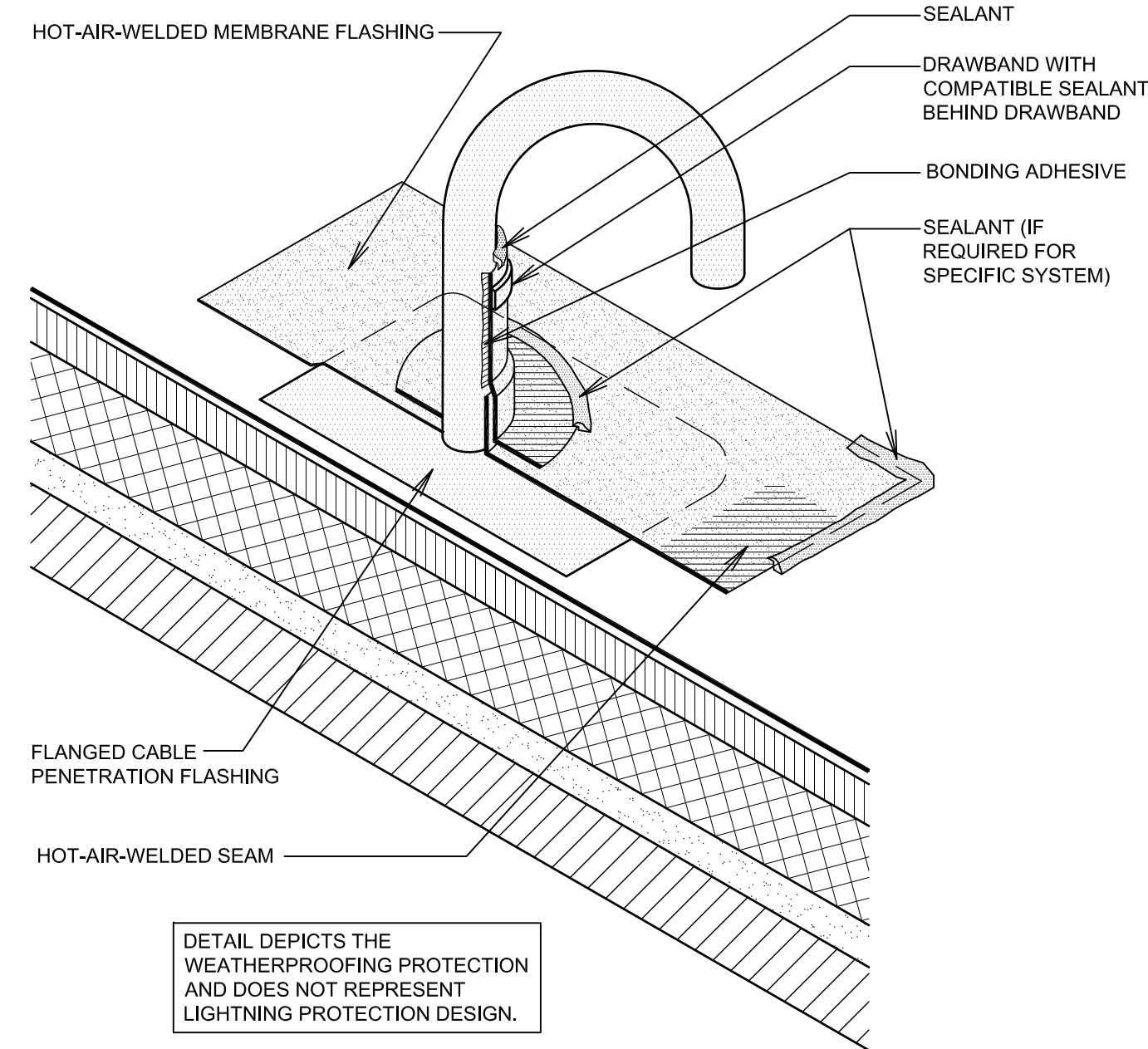
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PIPE SUPPORT

SCALE: NONE

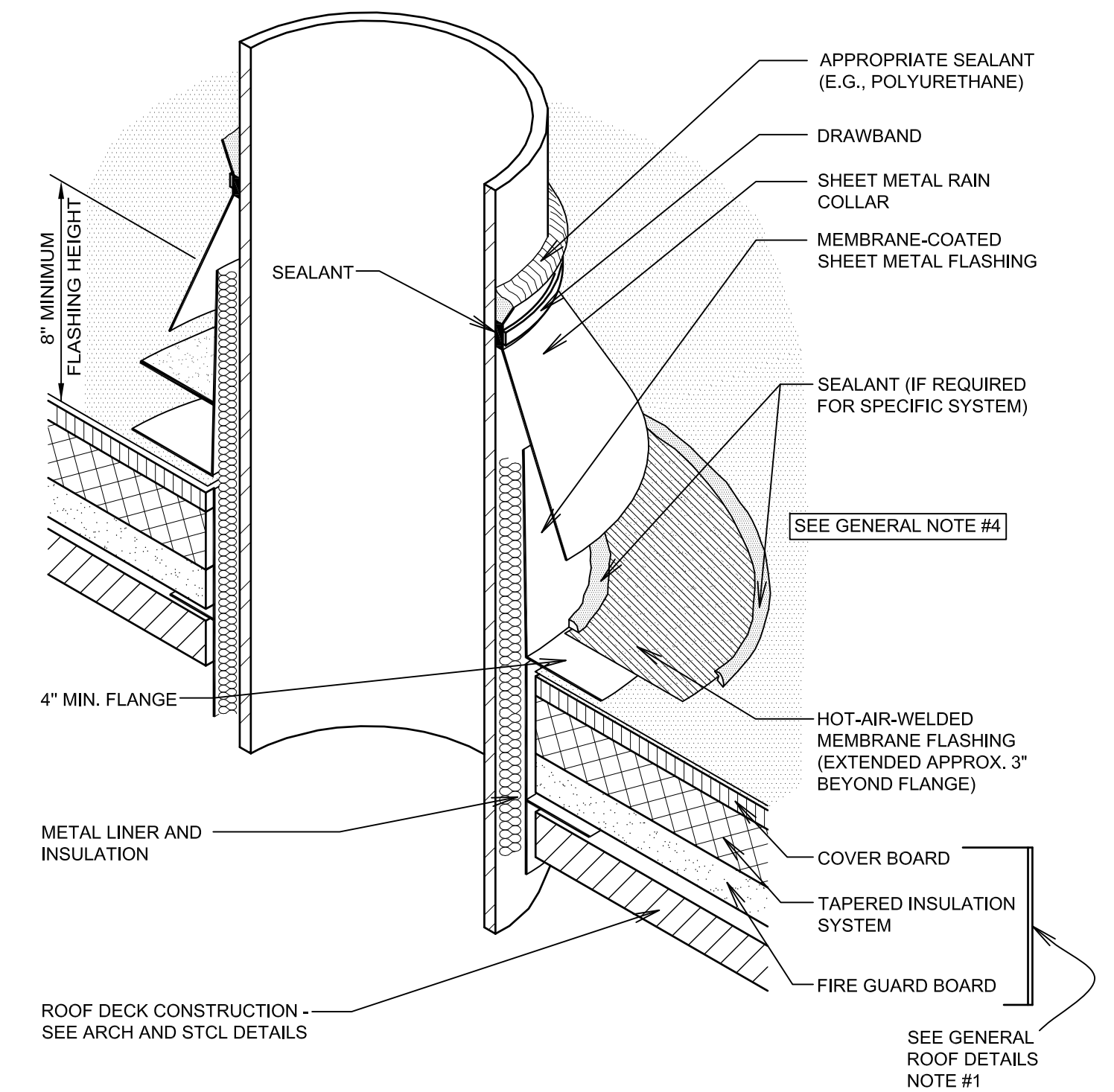
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CABLE PENETRATION

SCALE: NONE

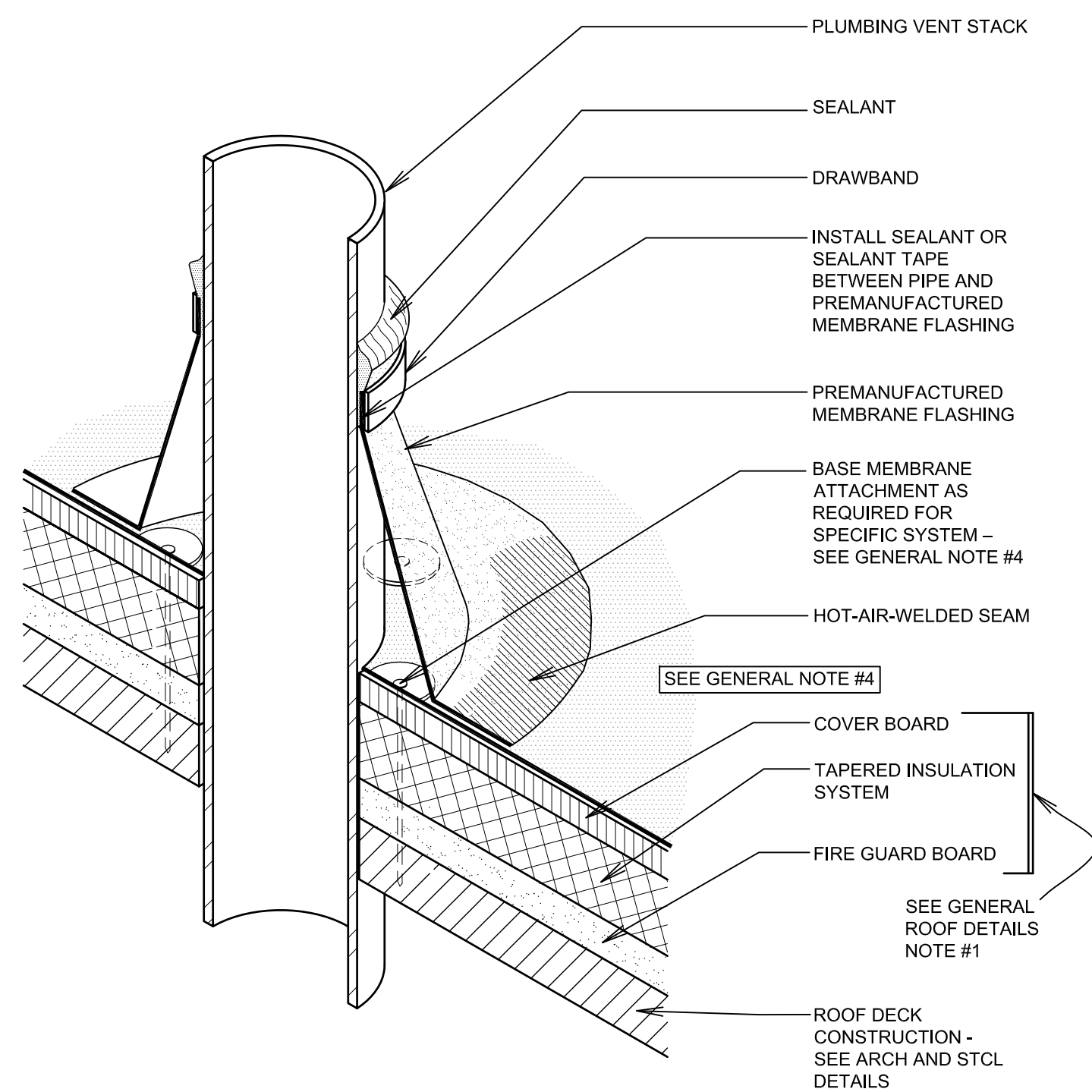
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SHEET METAL STACK VENT
(HOT OR COLD)

SCALE: NONE

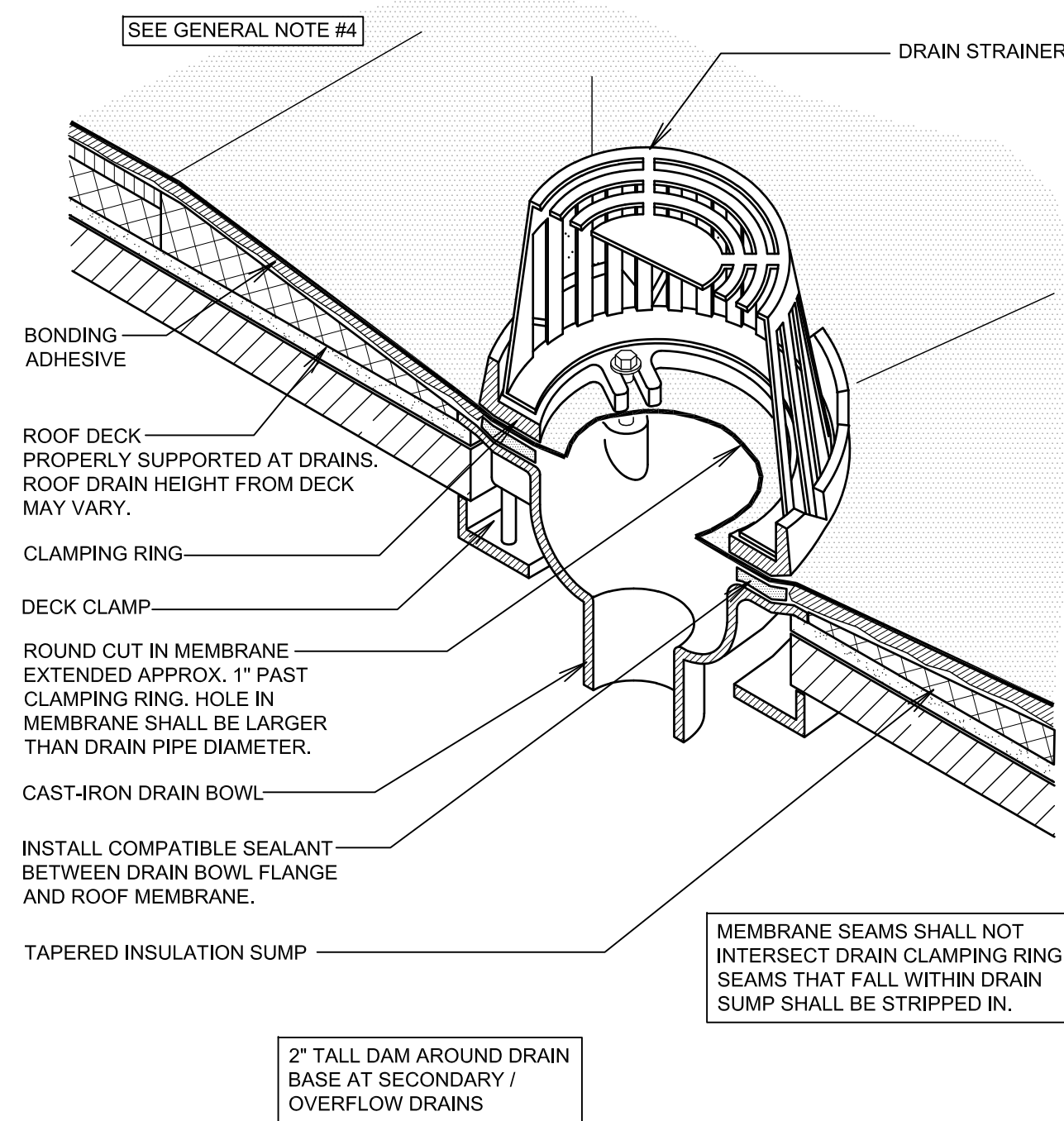
D



PLUMBING VENT
(PREMANUFACTURED BOOT)

SCALE: NONE

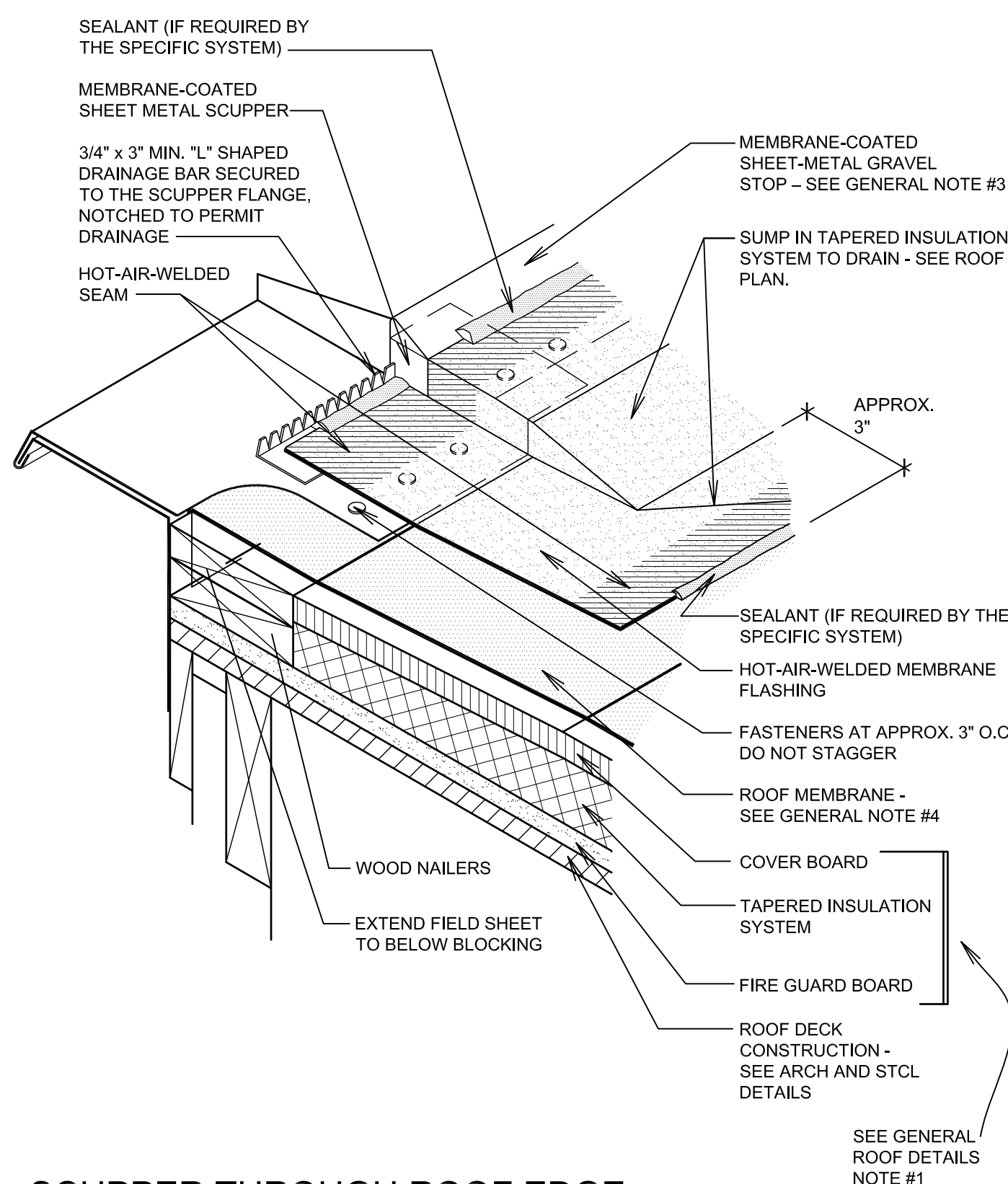
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ROOF DRAIN
(ADHERED MEMBRANE ROOF SYSTEMS)

SCALE: NONE

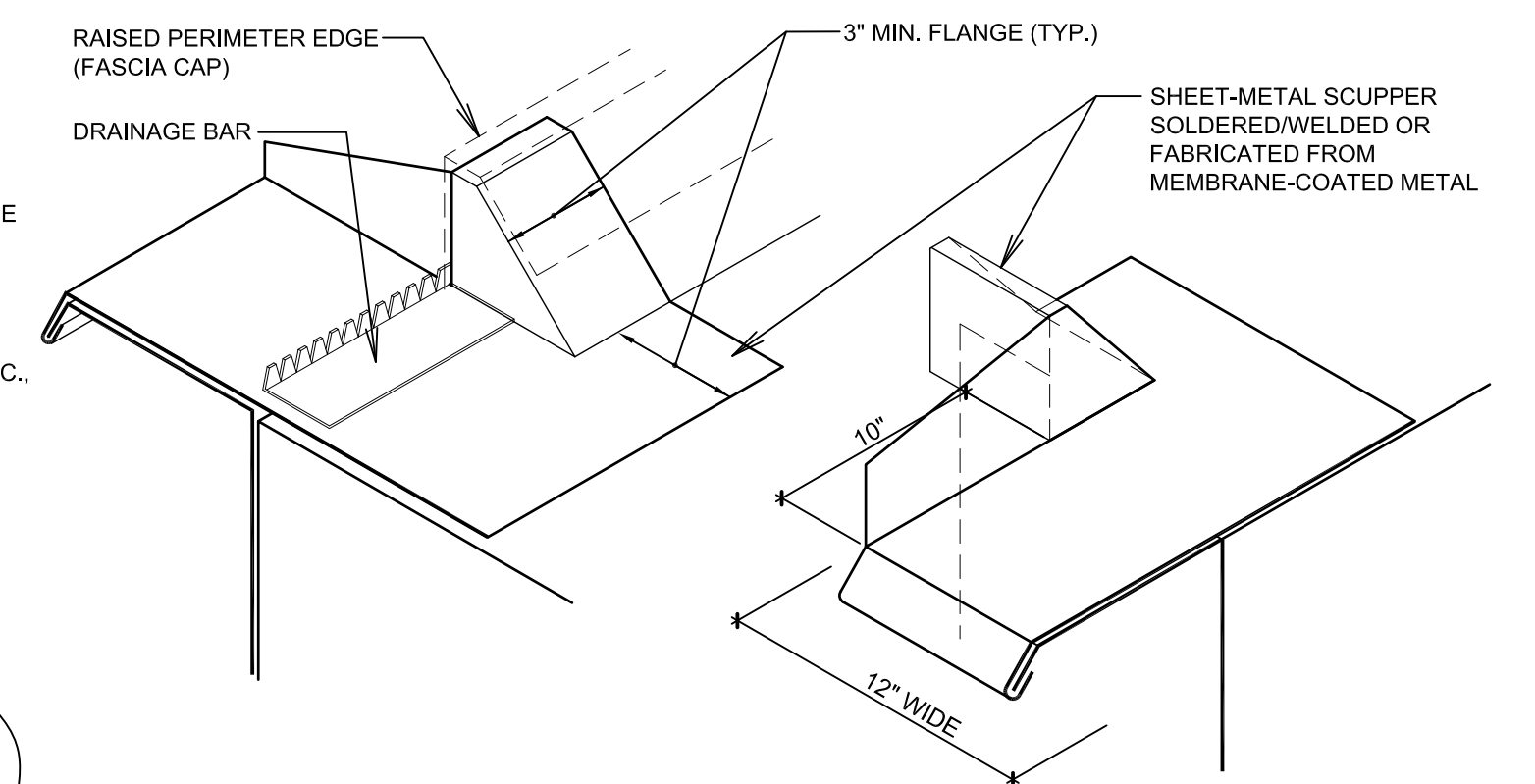
F



SCUPPER THROUGH ROOF EDGE
(ADHERED MEMBRANE ROOF SYSTEMS)

SCALE: NONE


G



SCUPPER THROUGH
RAISED PERIMETER EDGE METAL

SCALE: NONE

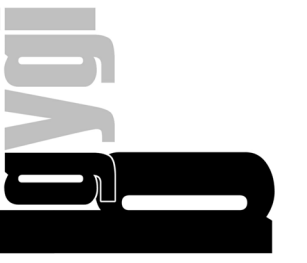
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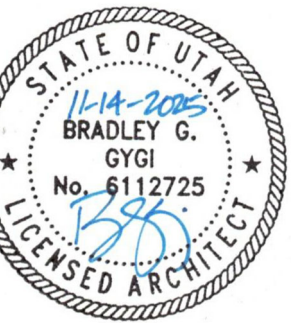
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|---|--|
| ◆ | NEW FULLY ADHERED PVC ROOFING SYSTEM WITH GYPSUM COVER BOARD ON ROOF DECK, MECHANICALLY FASTENED, TYPICAL ALL ROOF AREAS. ADD NEW PERIMETER TREATED NAILERS. |
| ◆ | NEW PVC COATED EDGE METAL AND METAL FASCIA. TYPICAL ALL MIDDLE AND HIGH ROOF AREAS. SEE E,F/A122. |
| ◆ | NEW PVC COATED EDGE METAL, METAL FASCIA, SOFFIT, AND TRIM. TYPICAL ALL LOW ROOF AREAS. SEE A,B,C,D,G/A122. |
| ◆ | NEW LOW ROOF TO WALL FLASHINGS. SEE C/A123. |
| ◆ | NEW SCUPPER. SEE G,H/A124. |

**bradley gygi architect
& associates, pllc**

P.O. Box 521048 | Salt Lake City, UT 84152
801.747.2451



MP:



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HOOPER UT STAKE

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4 NOV 2025

PROPERTY NUMBER:
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| OWN BY: BGG | CHECKED: BGG |
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SET TITLE:

EXTERIOR ELEVATIONS

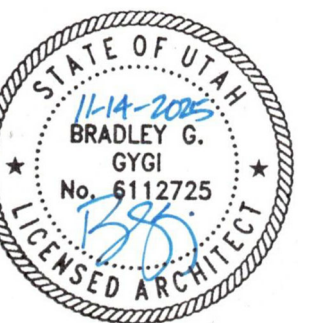
SET:

A201

NEW WORK NOTES:

- bradley gygi architects & associates, pllc**
PO Box 527048 | Salt Lake City, UT 84152
801.747.2451

MP:



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HOOPER UT STAKE

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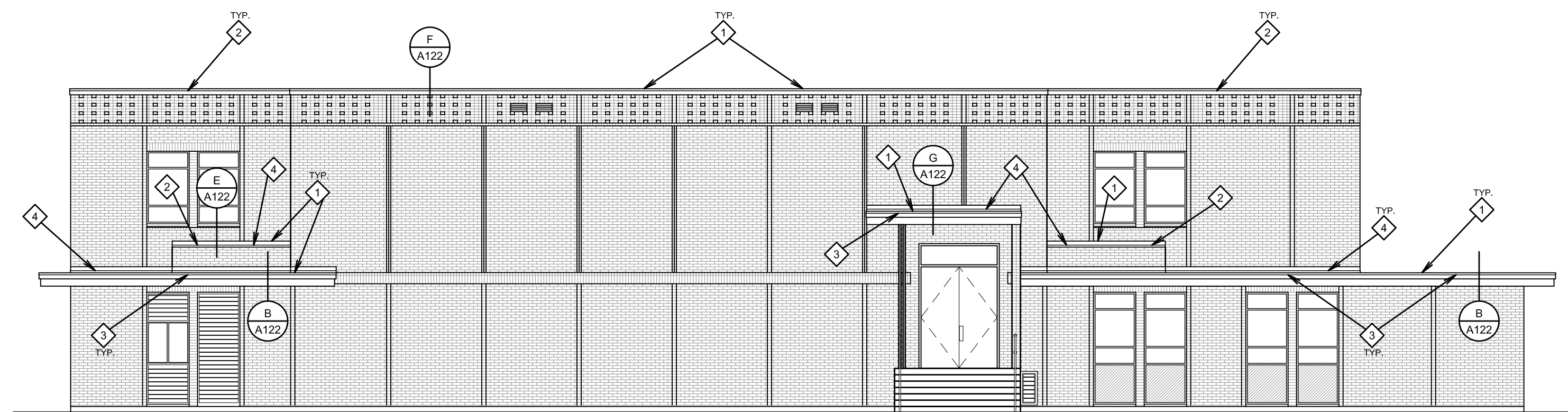
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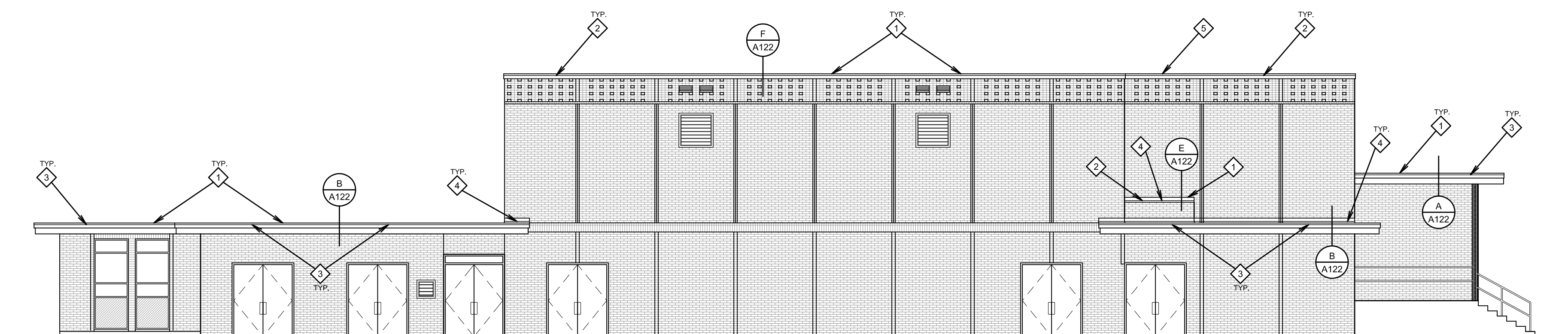
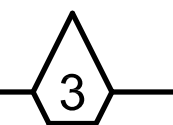
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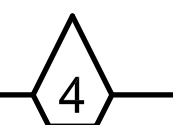
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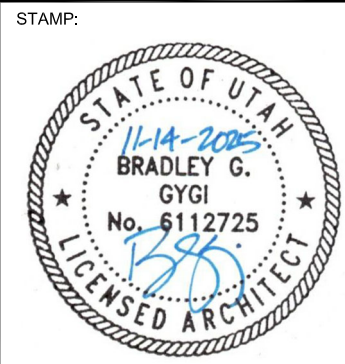
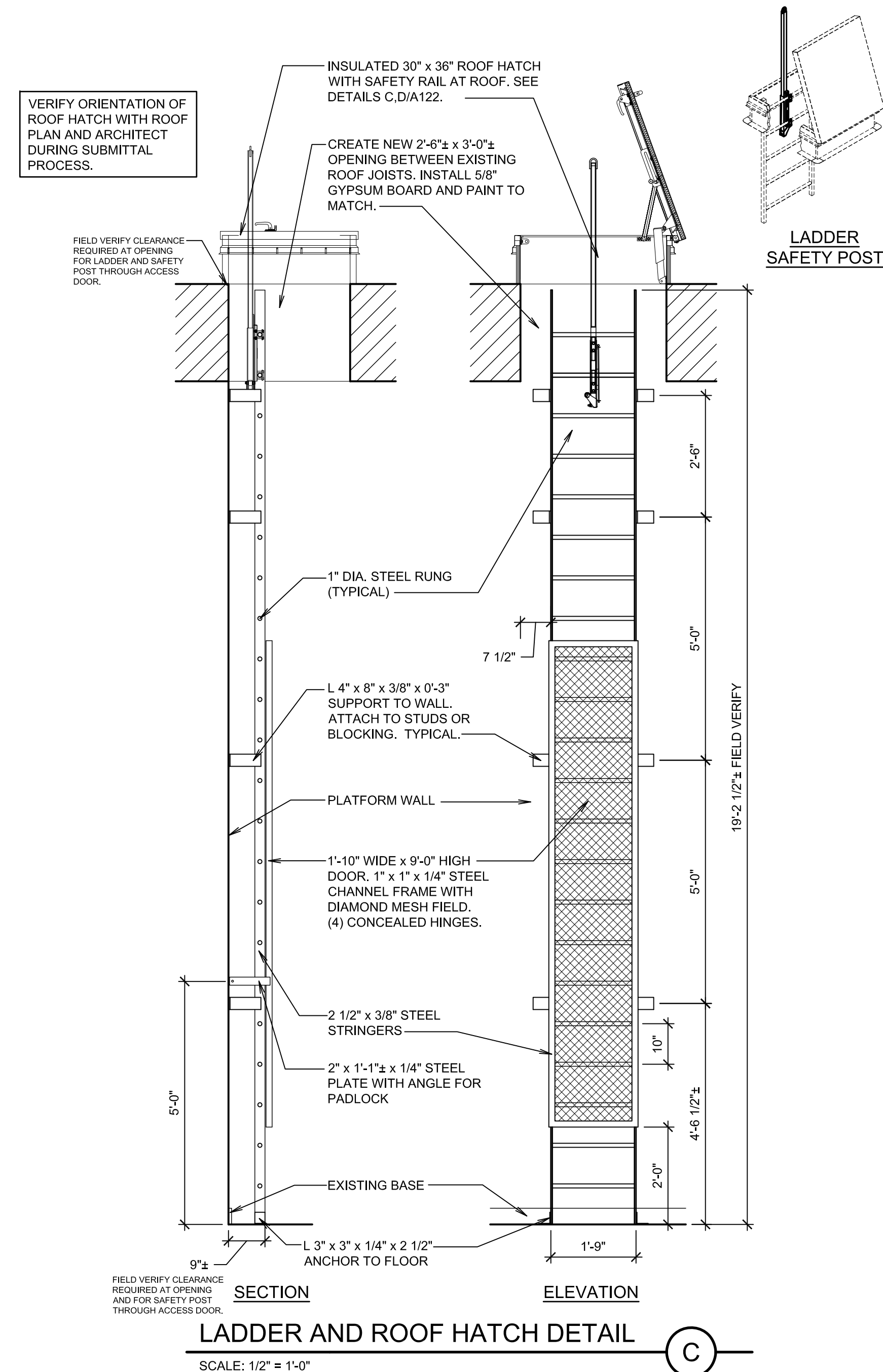
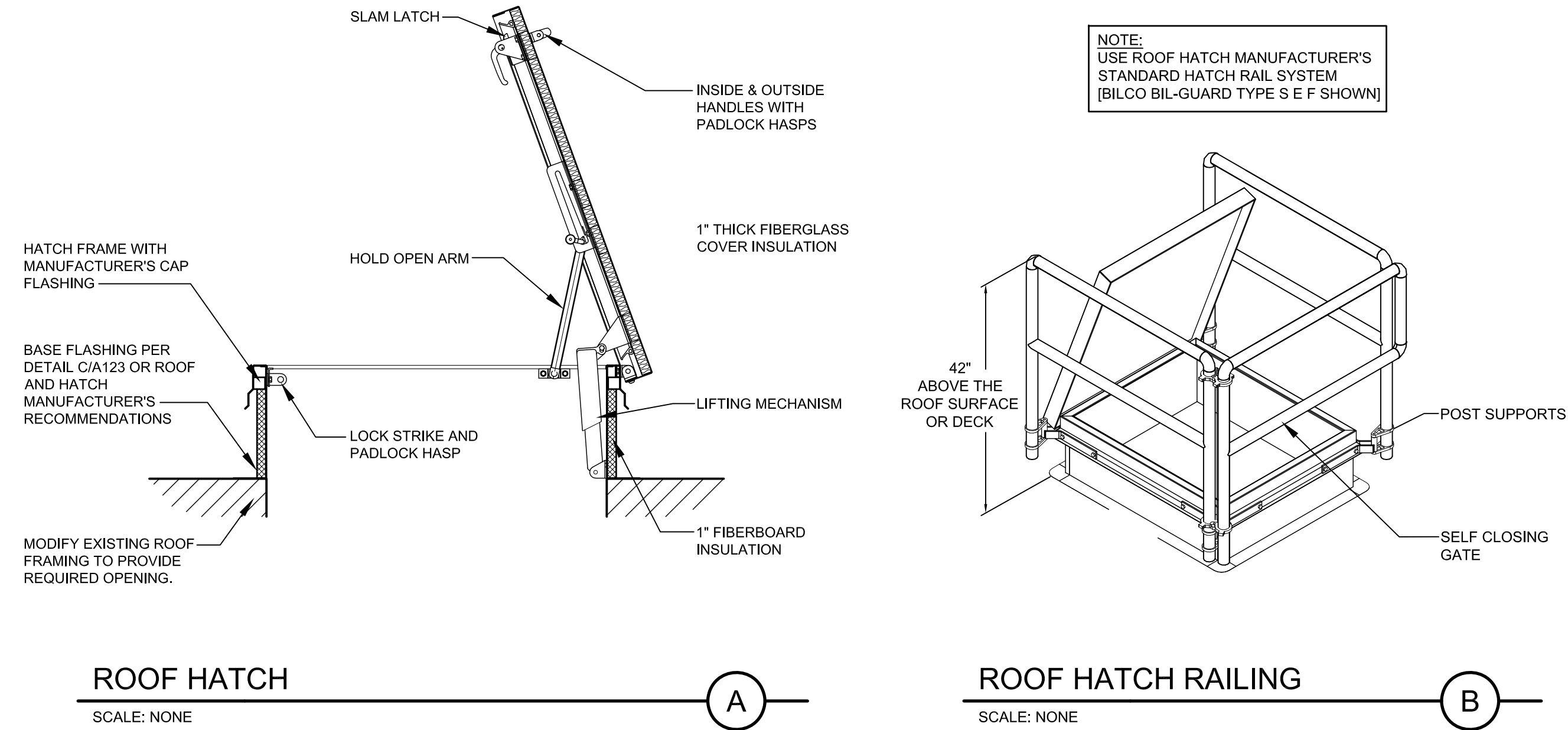


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- GENERAL NOTES FOR ROOFING DETAILS:**
1. REFER TO MEMBRANE ROOFING SPECIFICATION(S) IN SECTIONS 07 5000 FOR MEMBRANE TYPE AND THICKNESS, AND COVER BOARD, TAPERED INSULATION AND FIRE GUARD BOARD THICKNESSES AND REQUIREMENTS.
 2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR PERIMETER EDGE METAL, COUNTER FLASHINGS, AND COVERS.



HOOPER CULTURAL HALL
HOOPER UT STAKE

6150 WEST 5600 SOUTH
HOOPER, UTAH

PROJECT FOR:
**THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS**

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DATE:
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PROPERTY NUMBER:
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SHEET TITLE:
**SECTIONS
AND DETAILS**

SHEET:
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A. GENERAL

1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THE DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDUMS, (WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL, MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTAL AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS' DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT THE PROJECT SITE.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN REQUIREMENTS. PRESENCE OF HOLE IN SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND/OR OTHER CONSULTANTS DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO ANY CORRECTIONS. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE CONDITION OF THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
6. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
7. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
8. DURING AND AFTER CONSTRUCTION, BUILDER SHALL BE RESPONSIBLE FOR KEEP LOCATIONS WITHIN THE LIMITS OF DESIGN ADDRESSED IN THE CONTRACT DOCUMENTS.
9. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO USUALLY REPRESENT INFORMATION FOR THE CONTRACTOR'S USE. THE CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
13. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT. THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF ANY DRAWINGS OR OTHER DOCUMENTS.
15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12S AND 1705.13 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED WITH A SPECIAL INSPECTION TAG.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE. JOB SPECIFICATIONS, REVISIONS, ADDENDUMS, SPECIFICATIONS AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. THE RESULTS OF FINDINGS OF SPECIAL INSPECTIONS SHALL BE SUBMITTED UPON REQUEST TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING COMPONENTS INCLUDING BUT NOT LIMITED TO: BEARING WALLS, BRACING STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2021 RISK CATEGORY : II
2. ROOF LOADS
 - a. FLAT-ROOF SNOW LOAD, P_f : 25.5 PSF
 1. GROUND SNOW LOAD, P_g : 33 PSF
 2. SNOW EXPOSURE FACTOR, C_e : 1.0
 3. SNOW LOAD IMPORTANCE FACTOR, I_s : 1.1
 4. THERMAL FACTOR, C_t : 1.0
 5. SLOPE FACTOR, C_s : 1.0
 6. SNOW DRIFT : SHOWN ON PLANS WHERE APPLICABLE.
 - b. LIVE LOAD = 20 PSF
 - c. DEAD LOAD = 20 PSF FOR GYM ROOF AND 15 PSF FOR STAGE ROOF AND LOW ROOF
3. WIND DESIGN
 - a. BASIC WIND SPEED (3 SECOND GUST) : 103 MPH
 - b. WIND EXPOSURE : C
 - c. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-16
4. SEISMIC DESIGN
 - a. SEISMIC IMPORTANCE FACTOR, I_e : 1.25
 - b. SITE CLASS :
 - c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : $S_{S_0} = 0.939$, $S_{S_1} = 0.336$
 - d. SPECTRAL RESPONSE COEFFICIENTS : $S_{DS} = 0.751$
 - e. SEISMIC DESIGN CATEGORY : D
 - f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : ORDINARY REINFORCED MASONRY SHEAR WALLS
 - g. DESIGN BASE SHEAR : $V = 0.89W$ (ASCE 41-17)
 - h. SEISMIC RESPONSE COEFFICIENT, C_s : 0.3755
 - i. RESPONSE MODIFICATION FACTOR, R : 2
 - j. ANALYSIS PROCEDURE : BUILDING ANALYZED USING ASCE 41-17, NEW DIAPHRAGM DESIGNED USING ASCE 7-16, NEW WALL CONNECTIONS DESIGNED USING ASCE 41-17

1. WI

2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. SUBSTITUTION OF ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
5. INSTALLERS SHALL BE, AT A MINIMUM, TRAINED FOR THE SPECIFIC APPLICATION INSTALLATION TECHNIQUE FOR THE SPECIFIC PRODUCT BY THE PRODUCT MANUFACTURERS FIELD EMPLOYEE OR SHOP TRAINER. ACCESS TO TRAINING OBTAINABLE BY THE MANUFACTURERS ONLINE TRAINING PROGRAM.
6. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
7. ADHESIVE ANCHORS SHALL CONSIST OF REINFORCING BAR OR THREADED RODS AS INDICATED IN THESE DOCUMENTS.
8. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 14 DAYS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN DAMP, WATER-SATURATED, OR WATER-PEELED HOLES.
9. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
10. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-19 26.7.2 (e) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-V3 (ESR-4868).
- b. SIMPSON SET-3G (ESR-4507), OR AT-XP (ESR-263).
- c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER).
11. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HILTI HIT-HY 270 (ESR-4743).
- b. SIMPSON SET-3G (ESR-4844), OR AT-XP ANCHORS.
- c. DEWALT AC100+ GOLD (ESR-3200).
12. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
- a. HILTI KWIK BOLT-TZ2 (ESR-4286).
- b. SIMPSON STRONG-BOLT 2 (ESR-3037).
13. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. HILTI KWIK BOLT-TZ2 (ESR-4561).
- b. SIMPSON STRONG BOLT 2 (ESR-2440).
- c. DEWALT SCREW-BOLT+ (ESR-4042).
14. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
- a. SIMPSON TITEN HD (ESR-2713).
- b. DEWALT SCREW-BOLT+ (ESR-3889).
- c. HILTI KH-EX (ESR-3027).
15. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
- a. SIMPSON TITEN HD (ESR-1056).
- b. DEWALT SCREW-BOLT+ (ESR-1678).
- c. HILTI KH EX (ESR-3056).
17. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOID GROUTED.
18. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
19. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION. REINFORCEMENT SHALL BE IDENTIFIED, PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 2 INCHES, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN APPROVED ANCHORING ADHESIVE. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTION.
20. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

1. WC

- APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
- a. 1. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
- b. 2. VERTICAL MEMBERS: POST & TRIMMERS: NO. 1, STUDS: NO. 2.
- c. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.
- d. GLU-LAMINATED BEAMS SHALL BE DOUGLAS-FIR INDUSTRIAL / ARCHITECTURAL / PREMIUM APPEARANCE GRADE WITH A COMBINATION NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAM SHALL BE COMBINATION NUMBER 24F-V6.
- e. UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
- | MODULUS OF ELASTICITY | FLEXURAL STRESS RATING |
|-----------------------|------------------------|
| LVL: 2,000,000 PSI | 2,600 PSI |
| PSL: 2,000,000 PSI | 2,900 PSI |
| LSL: 1,500,000 PSI | 2,250 PSI |
- f. ALL WOOD JOISTS AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL.
2. SHEATHING OVER DECK SHALL BE APARATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE:
- | LOCATION | THICKNESS | PANEL INDEX |
|----------|-----------|-------------|
| ROOFS: | 7/16" | 24/0 |
3. INDIVIDUAL PIECES OF SHEATHING AT RAFT, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES, UNO.
4. CONNECTIONS, FASTENERS, AND ADHESIVE
- a. ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
- b. UNLESS NOTED OTHERWISE, 8d COMMON (0.131) NAILS SHALL BE USED TO FASTEN ALL FLOOR AND ROOF SHEATHING TO SUPPORTING MEMBERS, JOISTS, LEDGERS OR BLOCKING AS FOLLOWS:
1. BOUNDARY NAILING "BN": 6"o.c. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
2. PANEL EDGE NAILING "EN": 6"o.c. AT ALL OTHER SHEATHING PANEL EDGES.
3. PANEL FIELD NAILING "FN": 12"o.c. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
- c. NAILS SHALL BE GALVANIZED OR FLAMELESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.
- d. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN EBC TABLE 2304.10.2. MULTIPLE PLIES OF ENGINEERED LUMBER SHALL BE FASTENED TOGETHER IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- e. UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
- | COMMON NAIL SIZE | SHANK DIAMETER | HEAD DIAMETER | LENGTH | MIN. PENETRATION INTO SUPPORT MEMBER |
|------------------|----------------|---------------|--------|--------------------------------------|
| 6d | 0.113" | 0.266" | 2" | 1.25" |
| 8d | 0.131" | 0.281" | 2-1/2" | 1.375" |
| 10d | 0.148" | 0.312" | 3" | 1.50" |
| 12d | 0.168" | 0.312" | 3-1/4" | 1.50" |
| 16d | 0.192" | 0.344" | 3-1/2" | 1.62" |
- f. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, CUSHION BASIS ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL AND SHALL BE ATTACHED IN ACCORDANCE WITH MANUFACTURERS' PUBLISHED DATA, UNLESS NOTED OTHERWISE.
5. PROF. SOLID, UNFACED, UNGRADED LVL, BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS, BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE.

F. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

1. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
3. ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
 - a. OPEN WEB JOISTS & GIRDERS, BRIDGING, BRACING, CONNECTIONS, AND RELATED COMPONENTS.
 - b. METAL-PLATE-CONNECTED WOOD TRUSSES, BLOCKING, BRIDGING, BRIDGING CONNECTIONS, TRUSS HANGERS, AND RELATED COMPONENTS.
 - c. TILT-UP CONCRETE WALL PANELS THAT ARE PART OF THE PRIMARY STRUCTURAL SYSTEM.
 - d. PRE-CAST CONCRETE ELEMENTS AND THEIR CONNECTIONS.
 - e. CASTELLATED OR CELLULAR BEAMS.
 - f. BRB BRACES, GUSSET PLATES, AND CONNECTIONS. THESE DESIGNS SHALL BE BASED UPON QUALIFIED CYCLIC TESTS IN ACCORDANCE WITH SECTION 3.03 OF AISC 341-16.
 - g. HELICAL PIERS / MICRO PILES SHALL INCLUDE, BUT NOT BE LIMITED TO, PIER LAY-OUT, QUANTITIES, SHAFT AND HELIX LENGTH, FOUNDATION CONNECTION REQUIREMENTS, TEST PIER REQUIREMENTS, APPLIED SAFETY FACTORS, ETC.).
 - h. DISPLACEMENT RAMMED AGGREGATE PIERS.
 - i. CAST-IN-PLACE CONCRETE CAISSONS (SHALL INCLUDE CAISSON LAY-OUT, QUANTITIES, SHAFT SIZES, TEST REQUIREMENTS, DETAILS SHOWING ATTACHMENT OF CAISSONS TO GRADE BEAMS, PILE CAPS, AND FOUNDATIONS, ETC.).
 - j. CARBON/GLASS FIBER REINFORCING.
 - k. CONTINUOUS ROD TIEDOWN SYSTEM - SEE NOTE SECTION P.

G. EXISTING BUILDING NOTES

1. ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ANY PORTION OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THESE DRAWINGS.
2. DRAWINGS AND MATERIALS PREPARED HEREON SPECIFICALLY REFLECT THE EXISTING CONDITIONS AND CONFIGURATIONS OF ALL STRUCTURAL ELEMENTS. HOWEVER, THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND ALERTING THE ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT THE BUILDING AND ELEMENTS WITHIN THE BUILDING REMAIN STABLE AND SAFE THROUGHOUT THE CONSTRUCTION OF THE SHORING. TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHORING OR OTHER TEMPORARY SUPPORT OF STRUCTURAL MEMBERS UNTIL THE FINAL CONFIGURATION HAS BEEN COMPLETED.

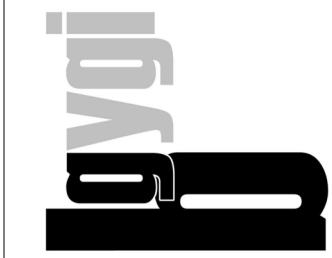
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|--|--|---|
| ANCHOR BOLT | | FOOTING MARK |
| ABV = ABOVE | | TOP OF FOOTING ELEVATION |
| ARCH = ARCHITECT | | SECTION MARK |
| BLW = BELOW | | SHEET NUMBER |
| BN = BOUNDARY NAILING | | TOP OF FOUNDATION WALL OR COLUMN PIER ELEVATION |
| BS = BOUNDARY SCREW | | SHEAR WALL - SEE SCHEDULE |
| BRB = BUCKLING RESTRAINED BRACE | | MIN. LENGTH OF SHEAR WALL |
| BRBF = BUCKLING RESTRAINED BRACE FRAME | | FOOTING STEP |
| CP = COMPLETE JOINT PENETRATION | | MASONRY WALL |
| CL = CENTERLINE | | CONCRETE WALL |
| CMU = CONCRETE MASONRY UNIT | | DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT MASONRY FOUNDATION WALL |
| COL = COLUMN | | DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL |
| CONC = CONCRETE | | MASONRY BEAM |
| CP = CONCRETE PIER | | CONCRETE BEAM |
| DC = DEMAND CRITICAL | | |
| DIA / Ø = DIAMETER | | |
| DBA = DEFORMED BAR ANCHOR | | |
| DBE = DECK BEARING ELEVATION | | |
| ELEV = ELEVATION | | |
| EN = EDGE NAILING | | |
| EOD = EDGE OF DECK | | |
| FDN = FOUNDATION | | |
| FTG = FOOTING | | |
| FFE = FINISHED FLOOR ELEVATION | | |
| GB = CONCRETE GRADE BEAM | | |
| HSA = HEADED STUD ANCHOR | | |
| JBE = JOIST BEARING ELEVATION | | |
| KB = KICKER BRACE | | |
| MAX = MAXIMUM | | |
| MB = MASONRY BEAM | | |
| MC = MASONRY COLUMN | | |
| MECH = MECHANICAL | | |
| MEZZ = MEZZANINE | | |
| MIN = MINIMUM | | |
| MJ = MASONRY JAMB | | |
| MW = MASONRY WALL | | |
| NS, FS = NEAR SIDE, FAR SIDE | | |
| OAE = OR APPROVED EQUAL | | |
| OPP = OPPOSITE | | |
| PAF = POWDER ACTUATED FASTENER | | |
| PL = PLATE | | |
| REINF = REINFORCING | | |
| REQ'D = REQUIRED | | |
| SIM = SIMILAR | | |
| SSH = STEEL STUD HEADER | | |
| SSJ = STEEL STUD JAMB | | |
| SSS = STEEL STUD SILL | | |
| SSW = STEEL STUD WALL | | |
| TOB = TOP OF BEAM ELEVATION | | |
| TOC = TOP OF CONCRETE SLAB | | |
| TOF = TOP OF FOOTING | | |
| TOG = TOP OF GIRDER ELEVATION | | |
| TOM = TOP OF MASONRY | | |
| TOS = TOP OF STEEL ELEVATION | | |
| TYPP = TYPICAL | | |
| UNO = UNLESS NOTED OTHERWISE | | |
| | | HD - SIMPSON HOLDOWN SIZE |
| | | POST - SIZE OF END POST |
| | | CONNECTED TO HOLDOWN |
| | | PLAN CONFIGURATION AT HOLDOWN AT FOUNDATION |
| | | FRAMING ANGLE SEE TYPICAL DETAIL |
| | | FRAMING CHANNEL SEE TYPICAL DETAIL |
| | | ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. |
| | | BRACED FRAME |
| | | MOMENT RESISTING CONNECTIONS - SEE DETAIL |
| | | MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL |
| | | KICKER BRACE |
| | | COLUMN SIZE |
| | | PIER MARK (PIER ELEV.) |

| Structural Sheet Index | |
|------------------------|-------------------|
| SHEET NUMBER | SHEET NAME |
| S001 | STRUCTURAL NOTES |
| S002 | SCHEDULES |
| S101 | ROOF FRAMING PLAN |
| S201 | TYPICAL DETAILS |

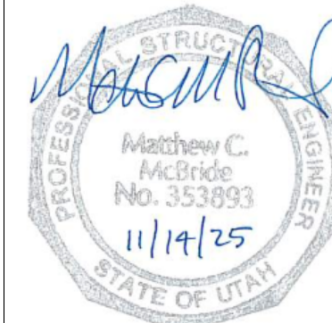
Architect:

**bradley gygi architect
& associates, pllc**

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801.747.2451



STAMPS



HOOPER CULTURAL HALL
HOOPER UT STAKE

6150 WEST 5600 SOUTH
HOOPER, UTAH

PROJECT FOR:

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

[illegible]

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| PROJECT NUMBER: | 502942823010101 |
| DATE: | 14 NOV 2025 |
| Property Number: | 5029428 |

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STRUCTURAL
NOTES

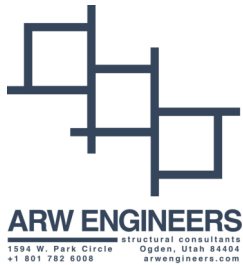
SHEET

S001

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20250 A - HOOPER CULTURAL HALL
HOOPER UT STAKE

| SPECIAL INSPECTION SCHEDULE 1.2 | | | | |
|---|-------------------------|-----------------------|--|--|
| ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17 | | | | |
| ITEM | CONTINUOUS ³ | PERIODIC ³ | REFERENCE | COMMENTS |
| MASONRY CONSTRUCTION (IBC 1705.4) | | | | |
| AS MASONRY CONSTRUCTION BEGINS, VERIFY: | | | SEE TMS 402/ACI 550 TABLE 1.19.2 (NON-ESSENTIAL) | M1. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 IN ACCORDANCE WITH ANSI / AWS D1.4. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. |
| SITE PREPARED MORTAR | | ● | | M2. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ESSENTIAL FACILITIES (TMS 602-16/ACI 530.1 TABLE 3). |
| MORTAR JOINTS | | ● | | M3. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT. |
| REINFORCEMENT / CONNECTORS | | ● | | |
| PRE-STRESSING TECHNIQUES | | ● | | |
| GRADE & SIZE OF TENDONS & ANCHORAGES | | ● | | |
| INSPECTION SHALL VERIFY: | | | | |
| SIZE & LOCATION OF STRUCTURAL ELEMENTS | | ● | | |
| TYPE, SIZE, & LOCATION OF ANCHORS | | ● | REFERENCE NOTE M2 | |
| SIZE, GRADE & TYPE OF REINFORCEMENT | | ● | | |
| WELDING OF REINFORCING BARS | ● | | REFERENCE NOTE M1 | |
| HOT OR COLD WEATHER PROTECTION | | ● | | |
| MEASUREMENT OF PRE-STRESSING FORCE | | ● | REFERENCE NOTE M2 | |
| PRIOR TO GROUTING, VERIFY: | | | | |
| CLEAN GROUT SPACE | | ● | REFERENCE NOTE M2 | |
| PLACEMENT OF REINFORCEMENT CONNECTORS, TENDONS AND ANCHORS. | | ● | | |
| PROPORTIONS OF SITE PREPARED GROUT | | ● | | |
| CONSTRUCTION OF MORTAR JOINTS | | ● | | |
| GROUT PLACEMENT | ● | | | |
| GROUTING OF PRE-STRESSING BONDED TENDONS | ● | | | |
| PREPARATION OF TEST SPECIMENS / PRISMS | ● | | | |
| COMPLIANCE W/ CONST. DOCS. / SUBMITTALS | | ● | | |
| EPOXY / EXPANSION ANCHOR PLACEMENT | ● | ● | REFERENCE NOTE M3 | |
| VERIFICATION OF f'm AND f_aac | | ● | | |
| SELF CONSOLIDATING GROUT: | | | | |
| VERIFY SLUMP FLOW AND VSI | ● | | | |
| WOOD (IBC 1705.5 & 1705.12.1 & 1705.13.2) | | | | |
| HIGH LOAD DIAPHRAGMS (ROOF / FLOOR) | | ● | REFERENCE NOTE W1 | W 1. WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS. |
| SITE-BUILT ASSEMBLIES | | ● | | W 2. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM, WHERE THE LATERAL RESISTANCE IS PROVIDED BY STRUCTURAL SHEATHING AND THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS MORE THAN 4x t_p. |
| SHEAR WALL & DIAPHRAGM NAILING | | ● | REFERENCE NOTE W2 | W 3. SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE. |
| DRAG STRUTS | | ● | | |
| BRACES & SHEAR PANELS | | ● | | |
| HOLDOWNS | | ● | | |
| GLUING OPERATIONS | ● | | | |
| METAL-PLATE-CONNECTED WOOD TRUSSES WITH HEIGHTS GREATER THAN OR EQUAL TO 60' | | ● | REFERENCE NOTE W2 | |
| METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET | | ● | REFERENCE NOTE W3 | |
| GENERAL SPECIAL INSPECTION NOTES : | | | | |
| 1. THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. | | | | |
| 2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. | | | | |
| 3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202) | | | | |



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801-747-2451

STAMPS:

HOOPER CULTURAL HALL
HOOPER UT STAKE

6150 WEST 8600 SOUTH
HOOPER, UTAH

PROJECT FOR:

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

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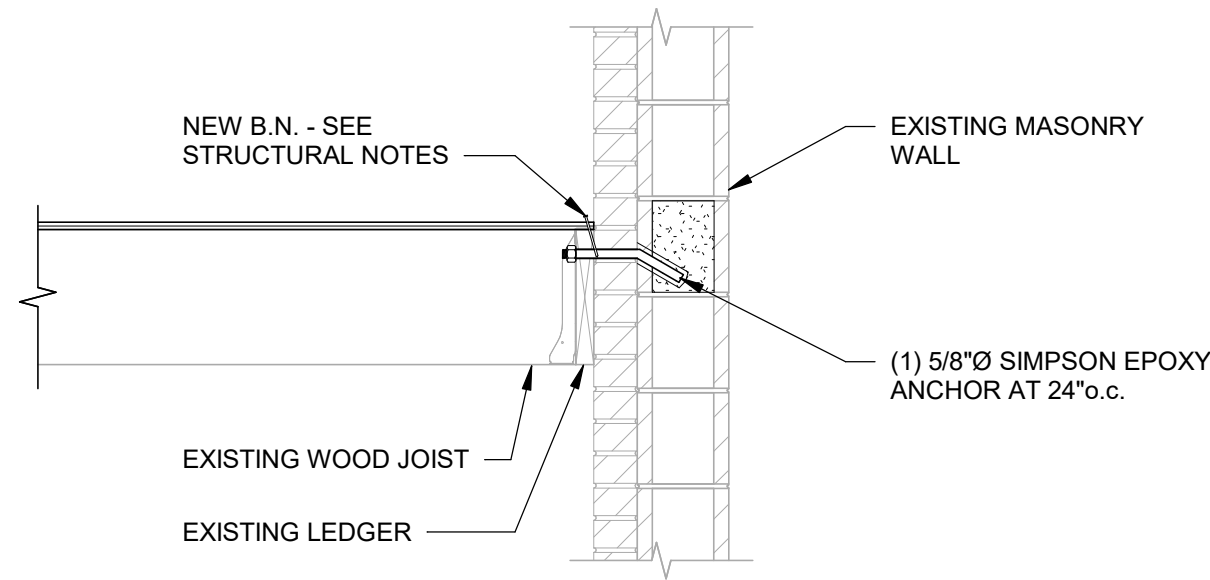
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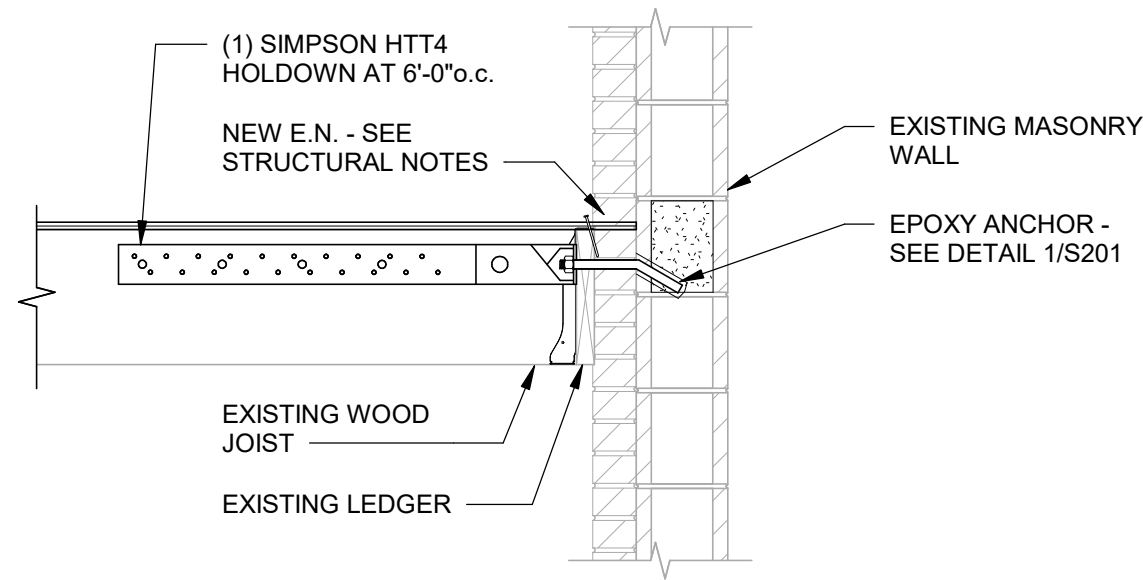
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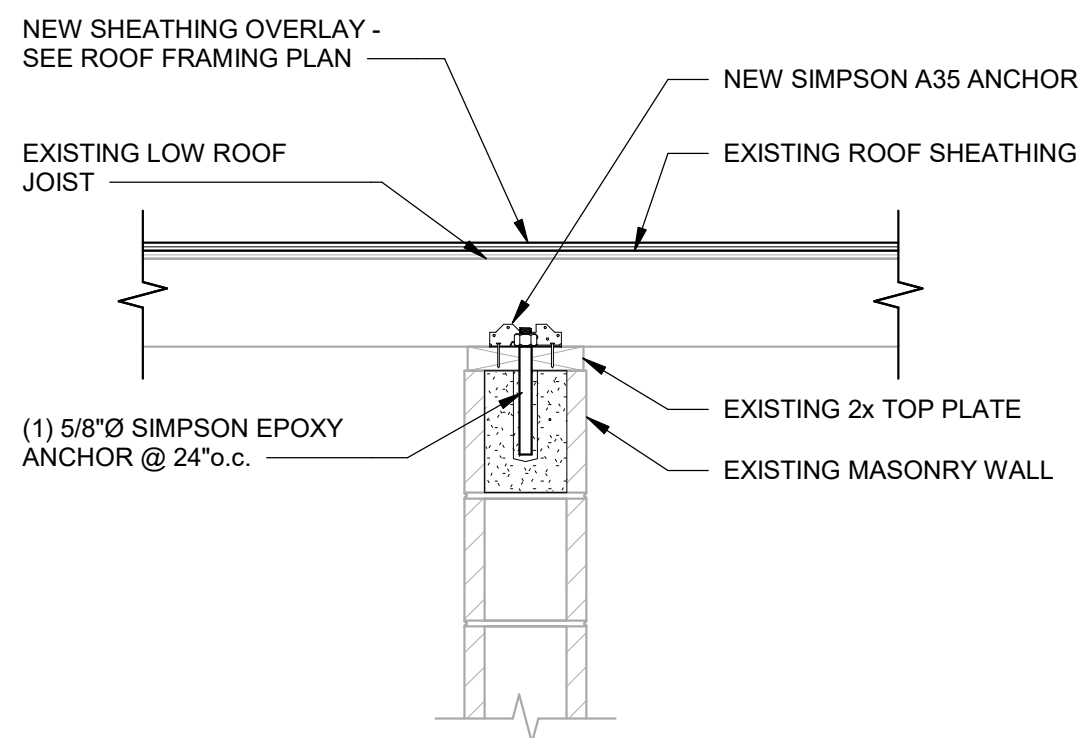
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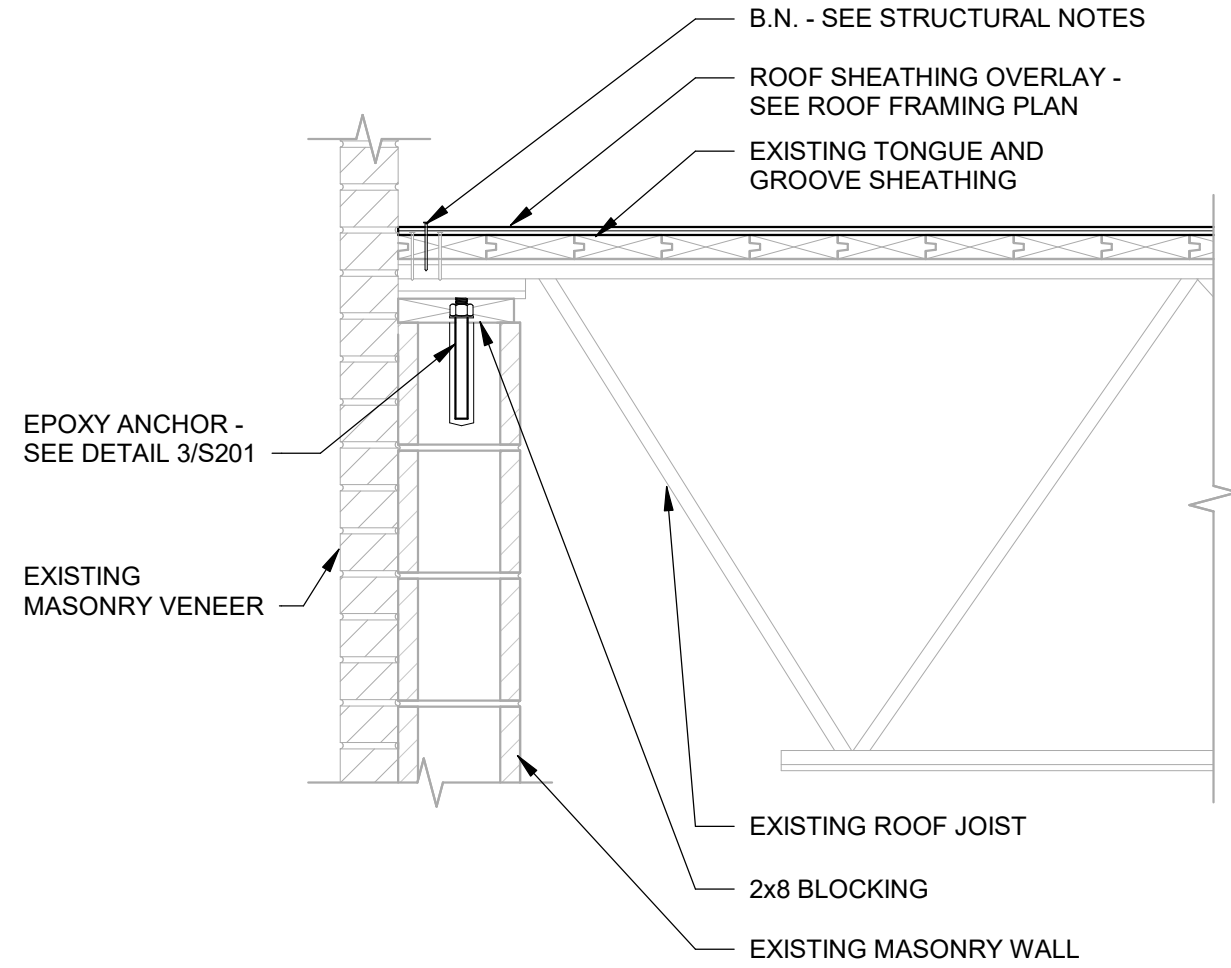
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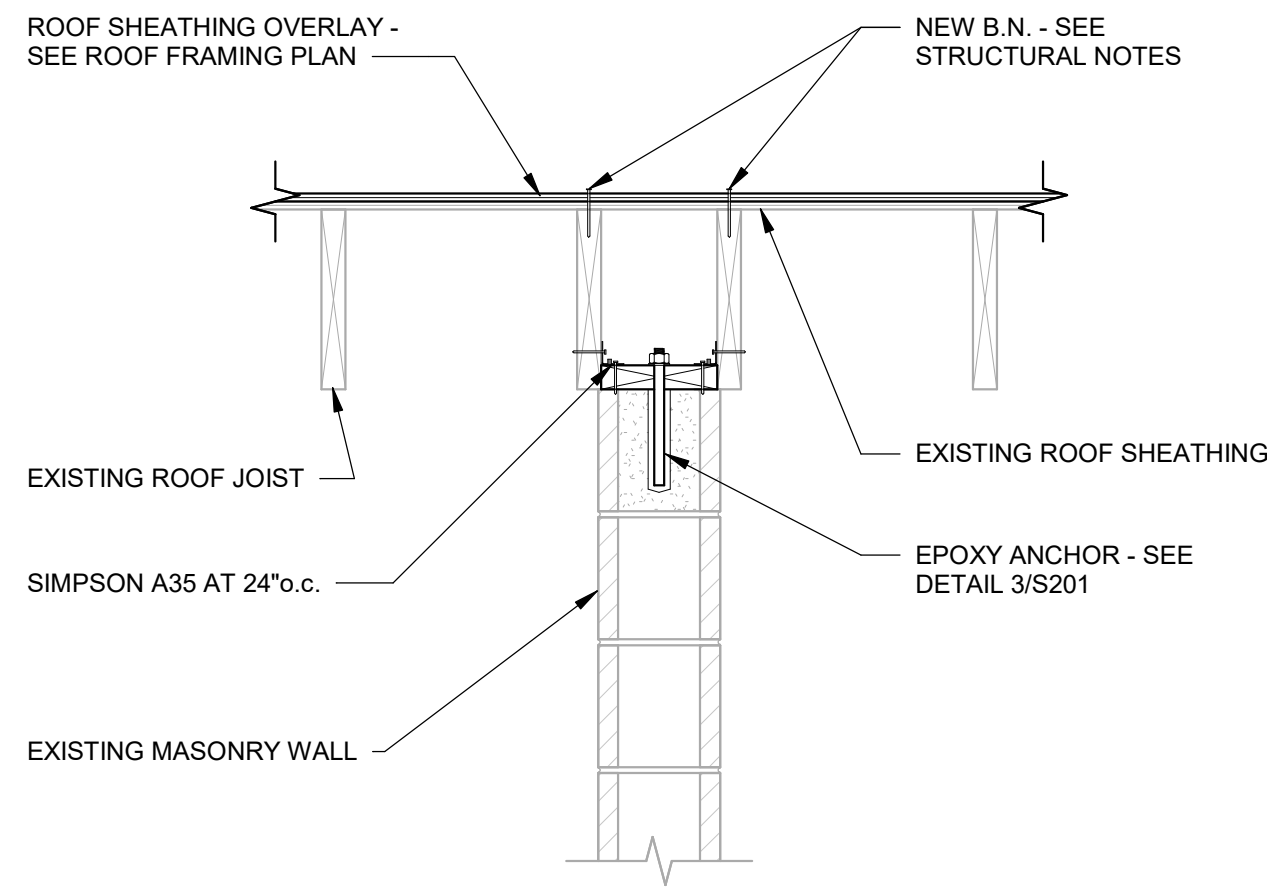
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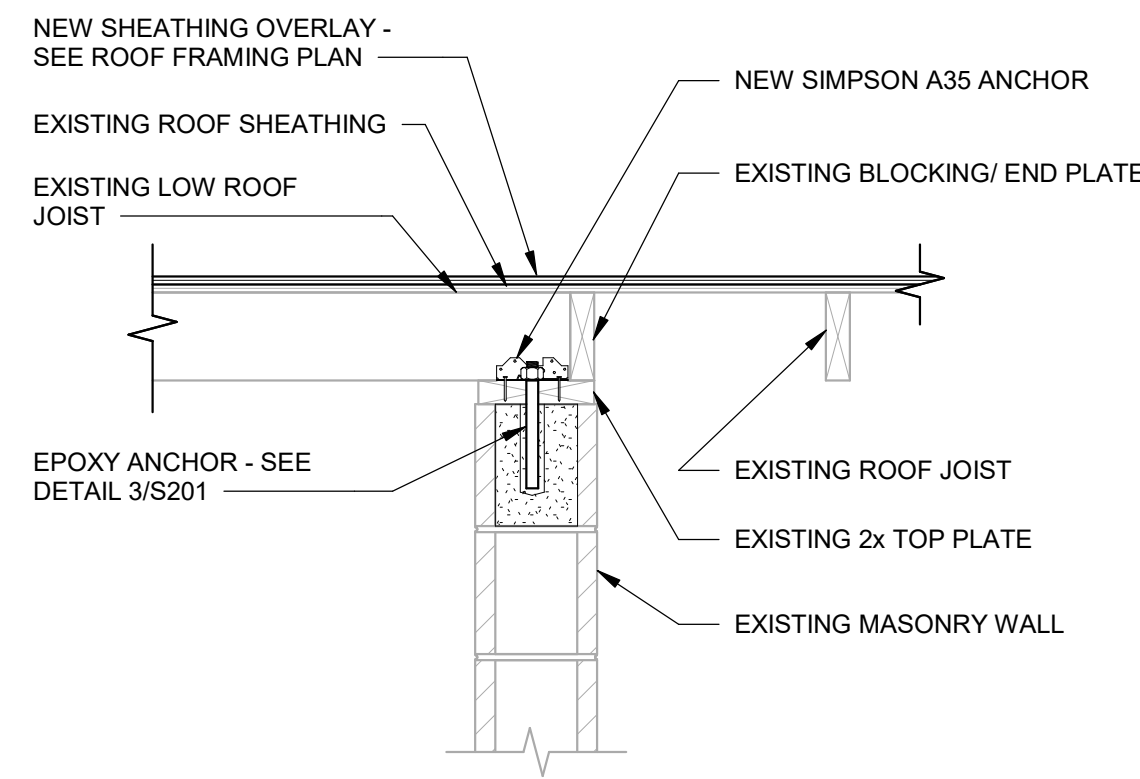
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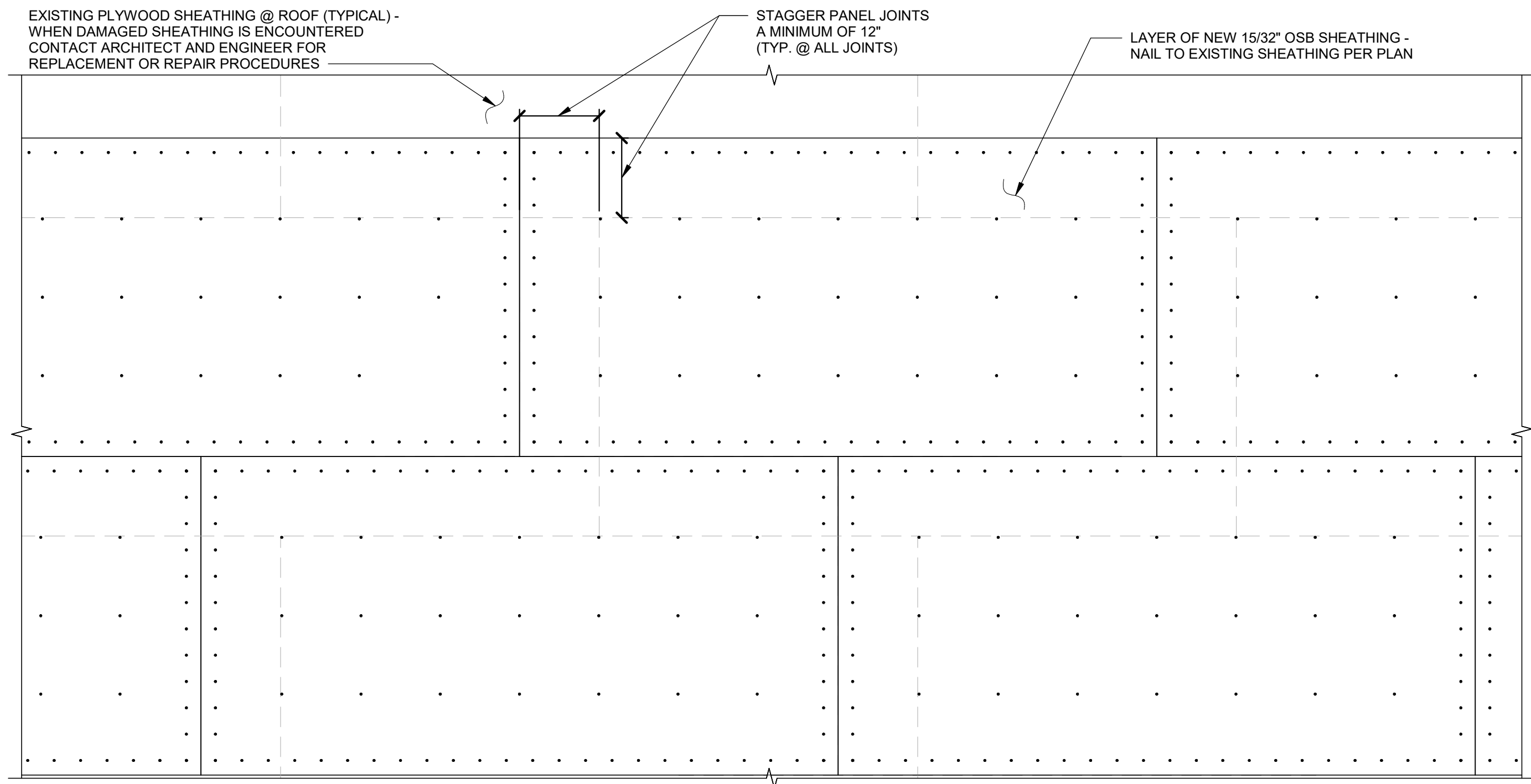
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DIAPHRAGM OVERLAY DETAIL
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DETAILS**

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