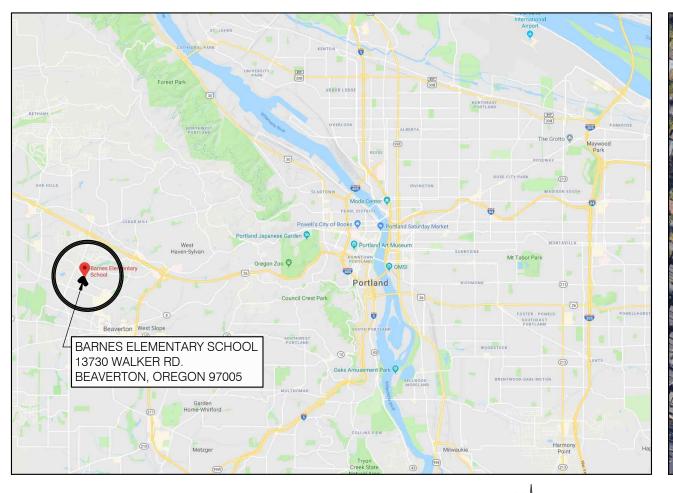
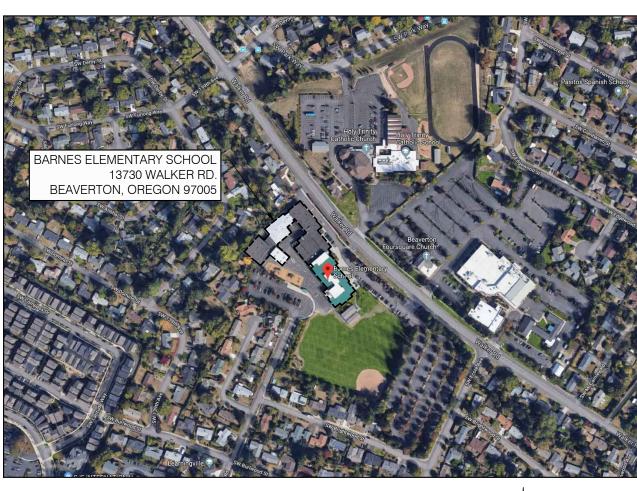
BARNES ELEMENTARY SCHOOL ROOF REPLACEMENT

SITE MAPS









DRAWING SCHEDULE

GENERAL INFORMATION

ROOF PLAN

PARTIAL ROOF PLAN AREAS A, B, C, D,

E, F, G & H

DETAILS DETAILS

DETAILS

GENERAL NOTES PARTIAL ROOF PLAN

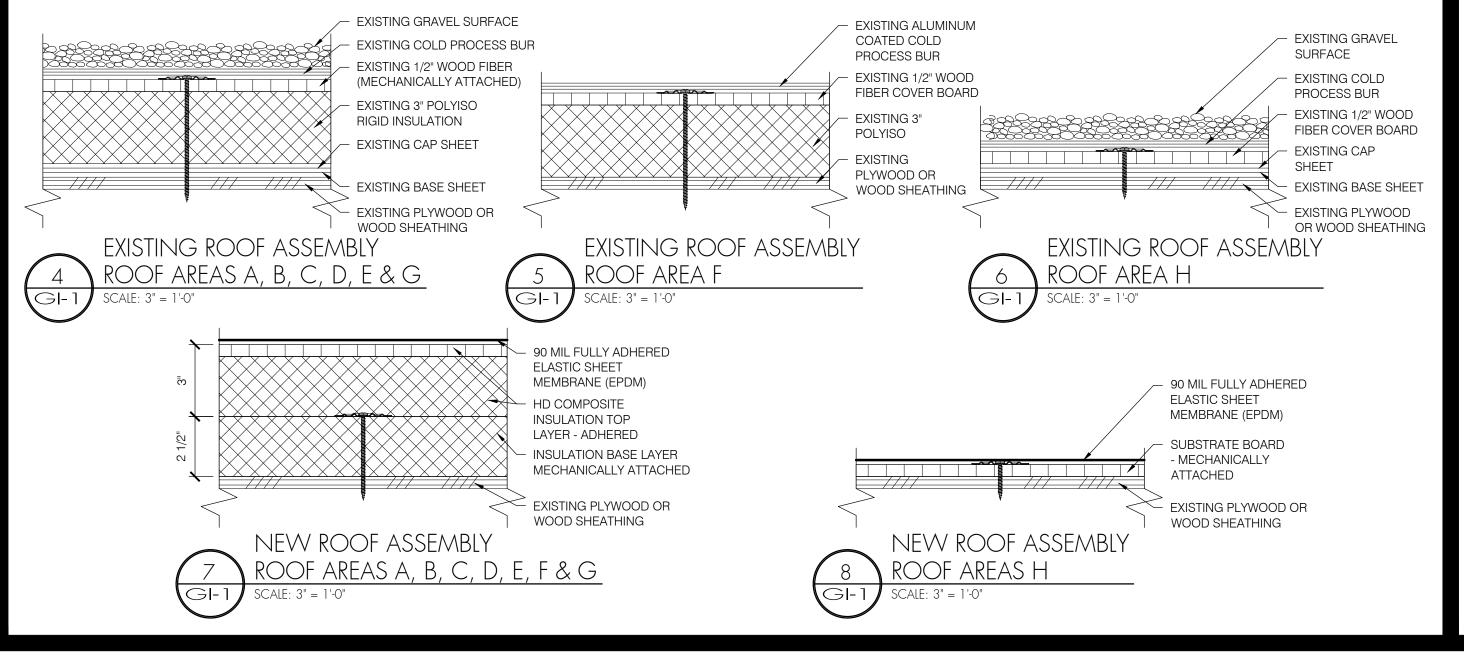
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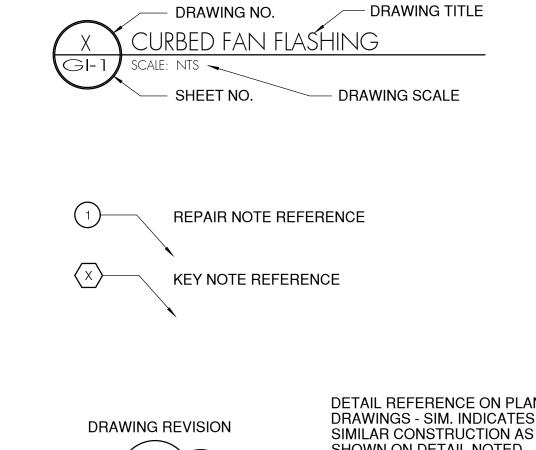
GENERAL NOTES

- PERSONAL FALL PROTECTION DEVICES ARE NOT, NOR WILL BE, PROVIDED BY THE OWNER ON ANY ROOF AREA DESIGNATED TO RECEIVE WORK. PERSONAL FALL PROTECTION IS THE
- EXISTING MATERIALS AND CONSTRUCTION ARE NOTED ON THE DRAWINGS AS EXISTING OR EXIST. ALL OTHER NOTATIONS INDICATE NEW MATERIALS, PRODUCTS, AND CONSTRUCTION UNLESS
- ALL CONSTRUCTION SHALL CONFORM TO THE 2019 OREGON STRUCTURAL SPECIALTY CODE, AND ALL LOCAL GOVERNING BUILDING CODES AND ORDINANCES
- 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT UTILITIES FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- THIS PROJECT IS FOR A BASE BID FOR A SCOPE OF WORK THAT INCLUDES, BUT IS NOT LIMITED TO COVER BOARD. WITH RELATED SHEET METAL FLASHINGS. AND EXTERIOR HANGING GUTTERS. DOWNSPOUTS, ROOF ACCESS LADDERS AND FALL PROTECTION ANCHORS. WORK DOES NOT INCLUDE ANY INCREASE IN AREA OR CHANGES IN OCCUPANCY.
- 9. SCOPE OF WORK CONSISTS OF THIS DRAWING SET AND SPECIFICATION SECTIONS IN THE PROJEC
- 10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT BUILDING OCCUPANTS AND PASSERS-BY FROM FALLING DEBRIS OR EQUIPMENT. DO NOT THROW MATERIALS FROM THE ROOF
- 11. ROOF ACCESS BY MEANS OF EXTERNAL LIFT OR OTHER DEVICE

ROOF SYSTEM ASSEMBLIES



DRAWING SYMBOLS



DETAIL REFERENCE ON PLAN DRAWINGS - SIM. INDICATES SHOWN ON DETAIL NOTED.

PROJECT TEAM

OWNER

ACTIVITIES.

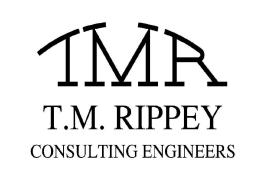
RESPONSIBILITY OF THE CONTRACTOR.

Beaverton School District 16550 SW Merlo Rd. Beaverton, Oregon 97006 tel: (503) 356-4587 Contact: Michael Lamberty CPM



STRUCTURAL ENGINEER

TM Rippey Consulting Engineers 7650 SW Beveland St Tigard Oregon 97223 tel: (503) 443-3900 fax: (503) 443-3700 Contact: Ralph Turnbaugh, P.E.



ROOF CONSULTANT

Professional Roof Consultants, Inc. 1108 SE Grand Ave., Suite 300 Portland, Oregon 97214 tel: (503) 280-8759 Contact: Jose Ponce, RRO, RRC

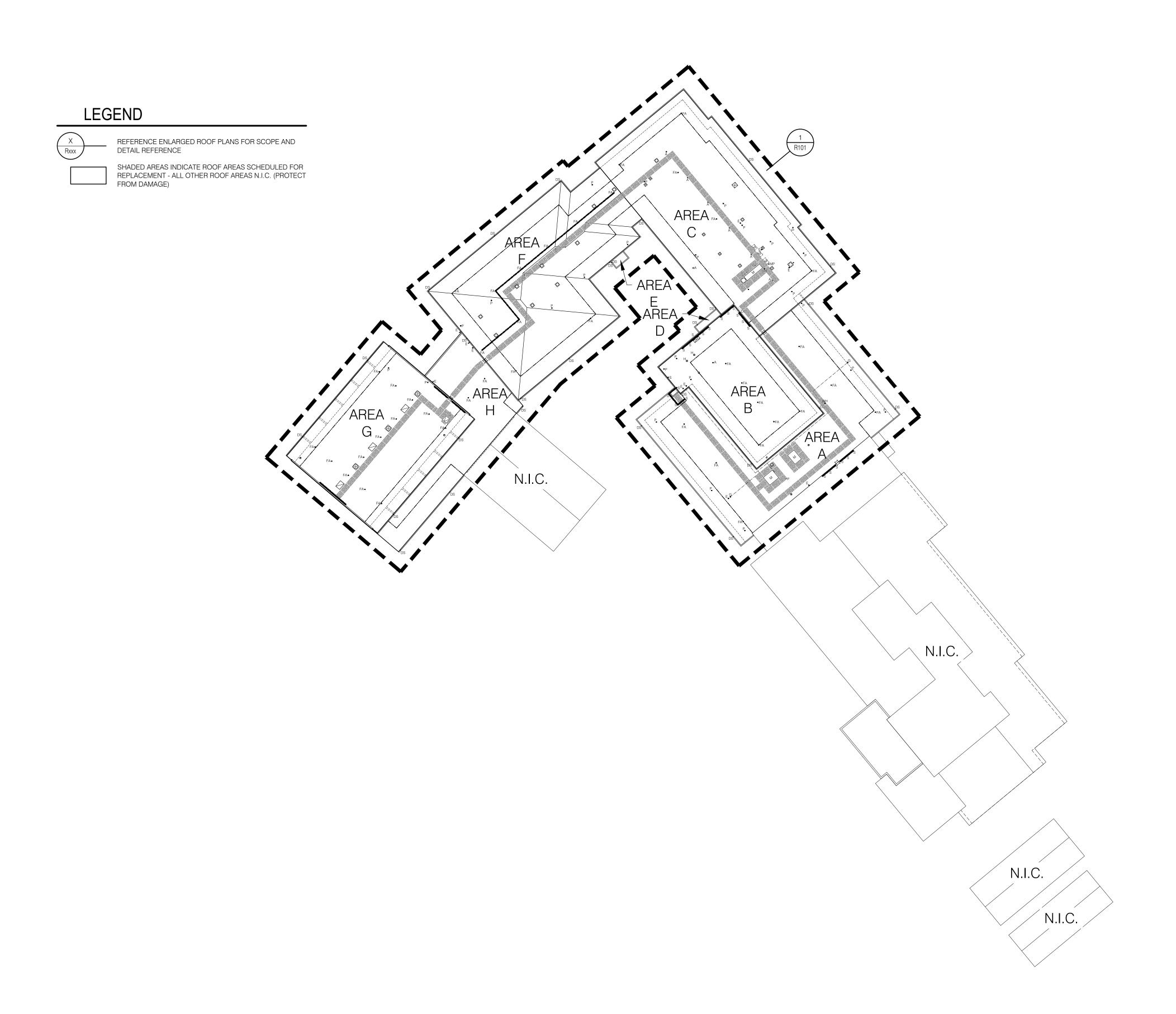


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THE BAR SCALE IS 2-INCHES IN LENGTH. IF THE BAR IS NO







1108 SE GRAND AVENUE, SUITE 300 PORTLAND, OREGON 97214 PH. 503 280 8759 FAX: 503 280 8866

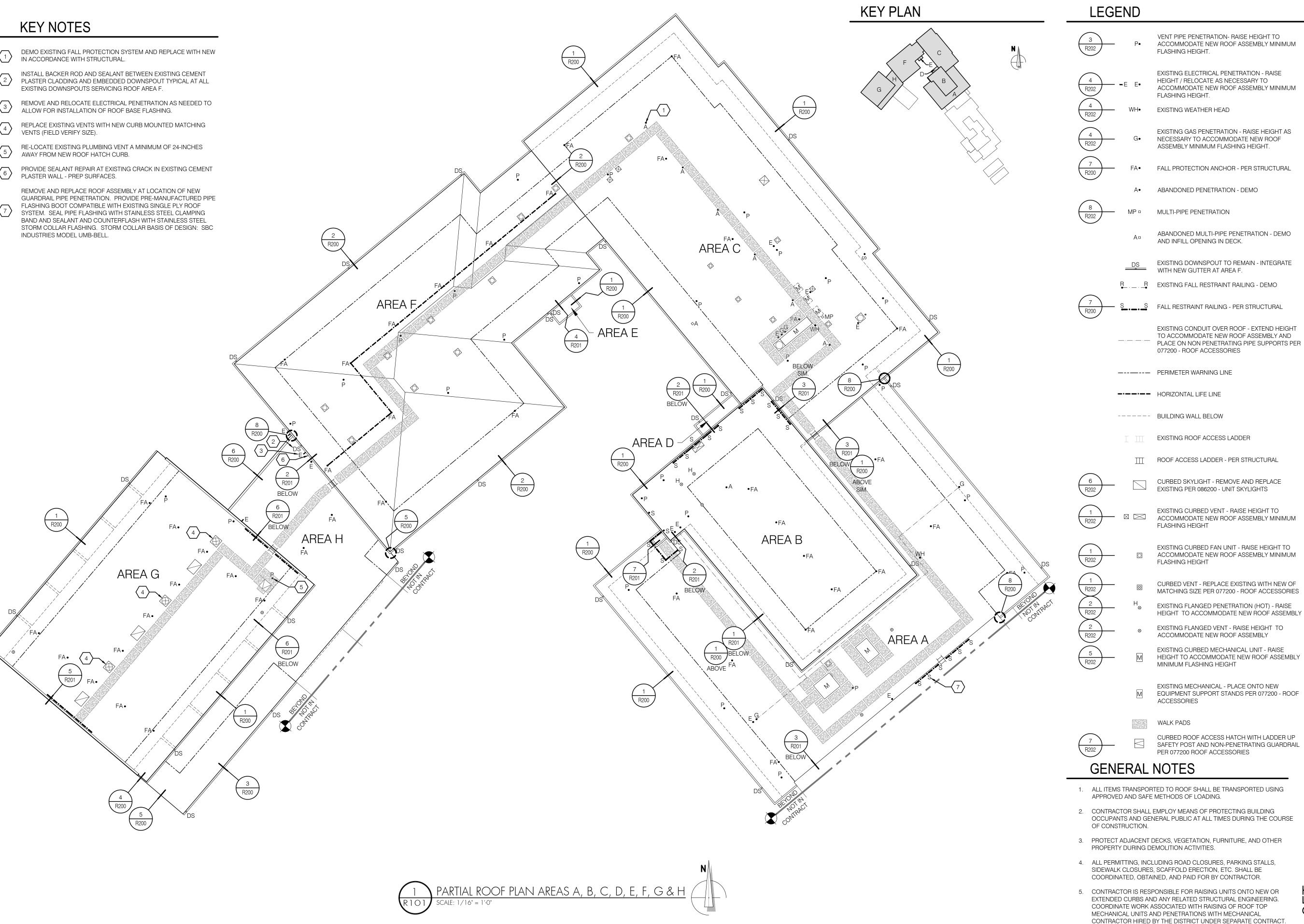
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OVERALL ROOF PLAN

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FEB 11, 2020



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TO ACCOMMODATE NEW ROOF ASSEMBLY AND PLACE ON NON PENETRATING PIPE SUPPORTS PER

MATCHING SIZE PER 077200 - ROOF ACCESSORIES EXISTING FLANGED PENETRATION (HOT) - RAISE

CONTRACTOR HIRED BY THE DISTRICT UNDER SEPARATE CONTRACT. MECHANICAL SHUT DOWN, DISCONNECT, RE-CONNECT, RE-WIRING, CONTROLS WORK, ETC. TO BE PERFORMED BY OTHERS. MAINTAIN WATERTIGHT CONDITIONS DURING PERFORMANCE OF WORK.

R100-Roof_Plans

PARTIAL ROOF PLAN AREAS A, B, C, D, E, F, G & H

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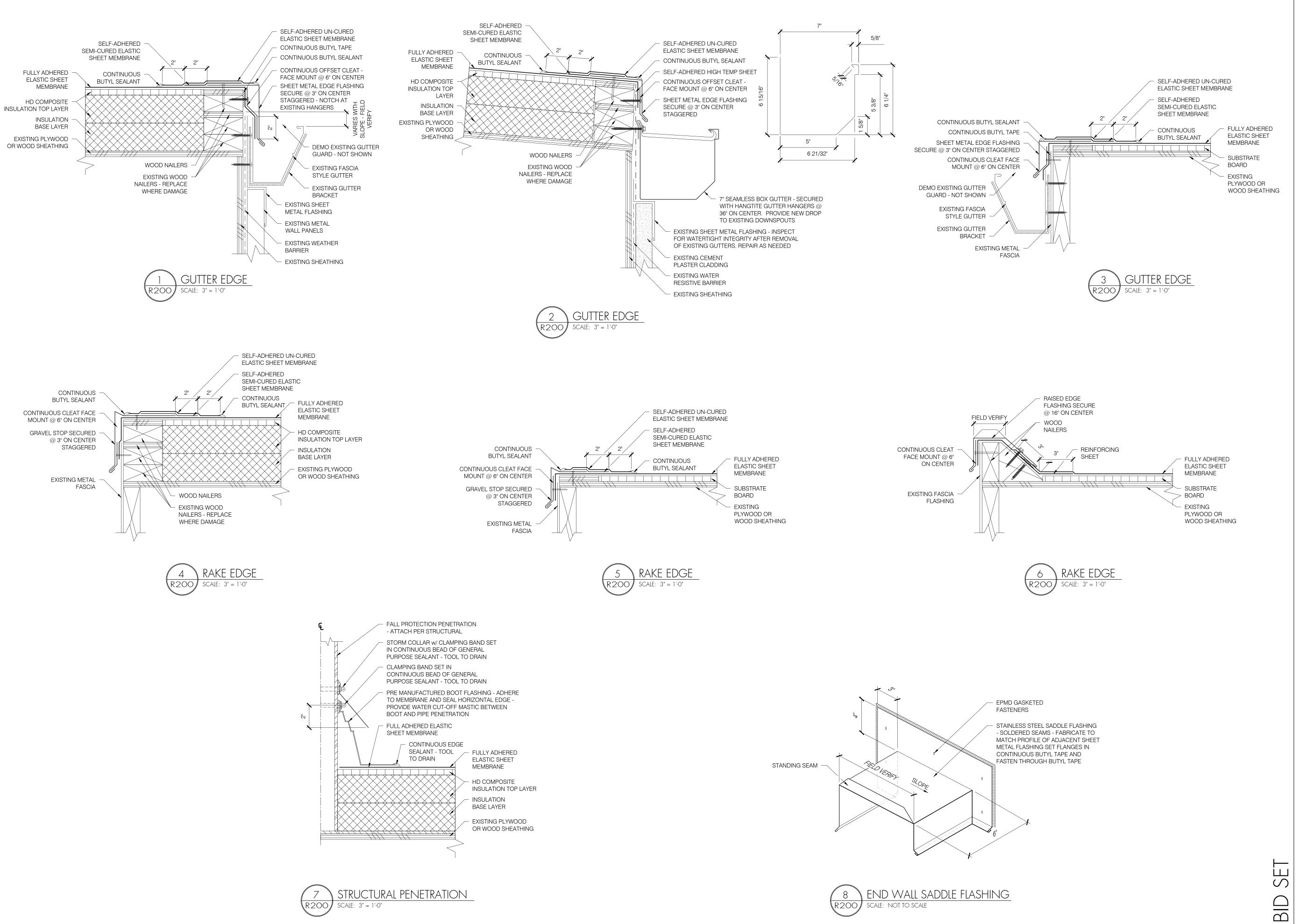
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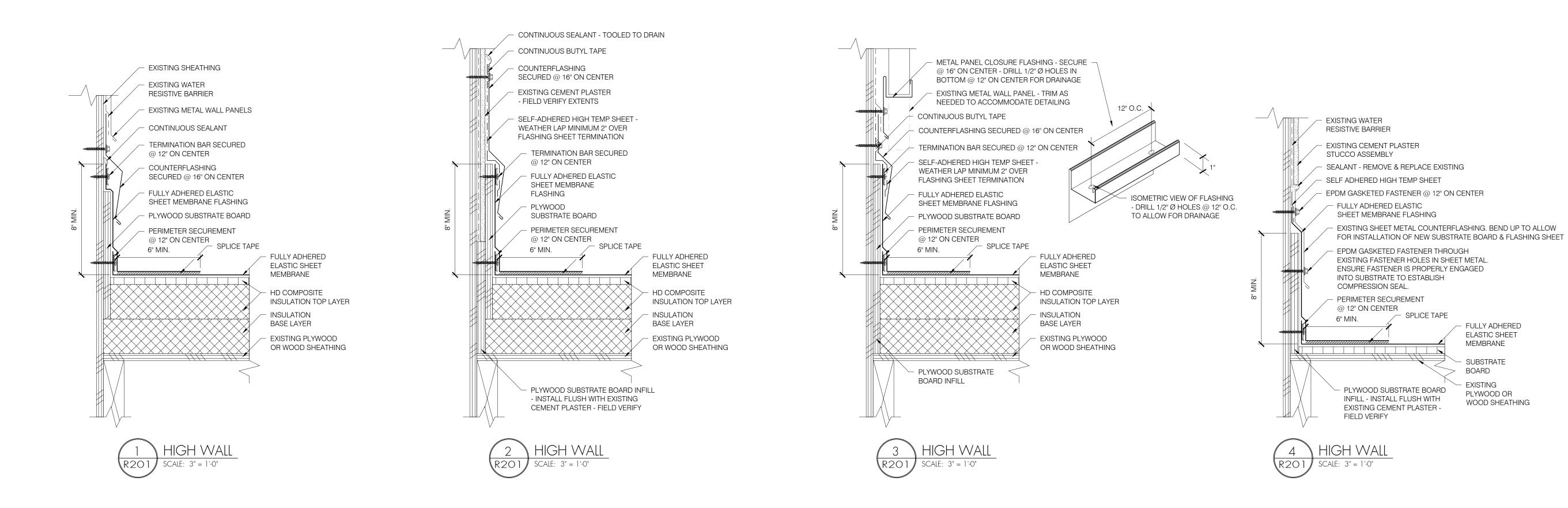
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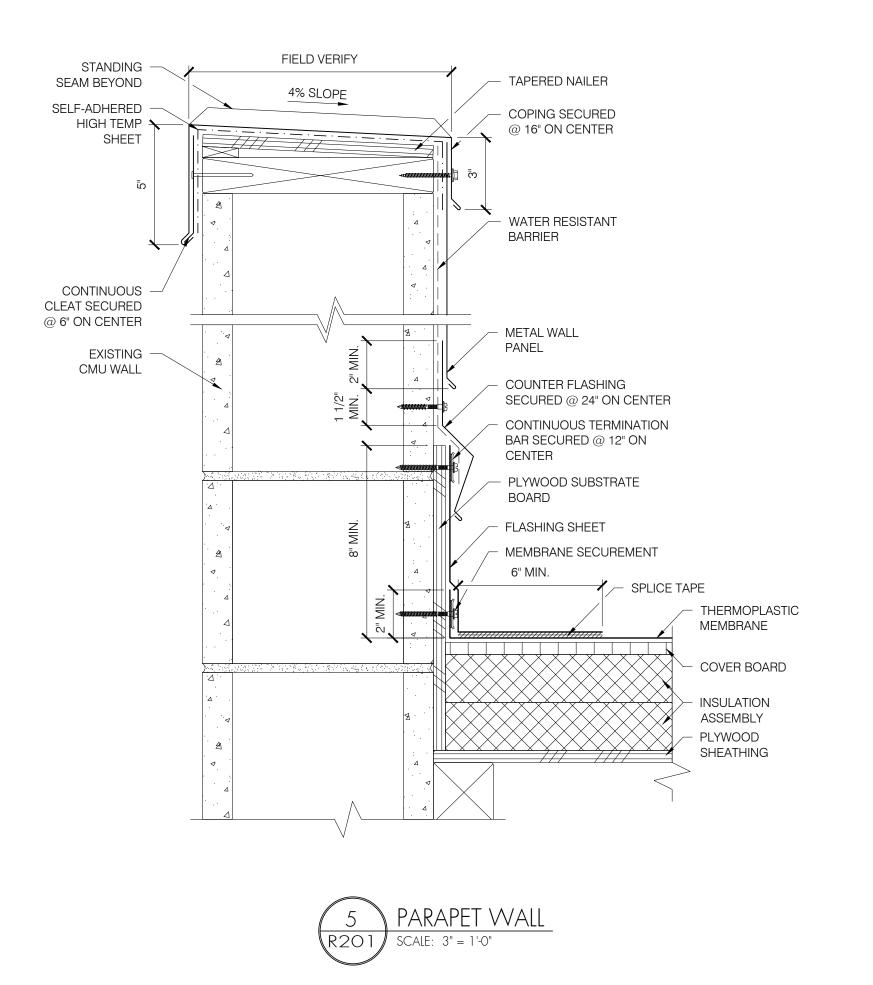
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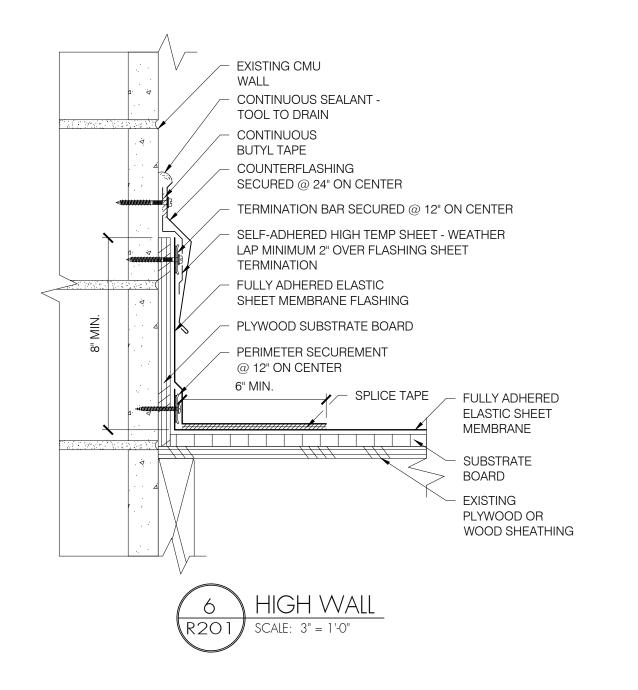
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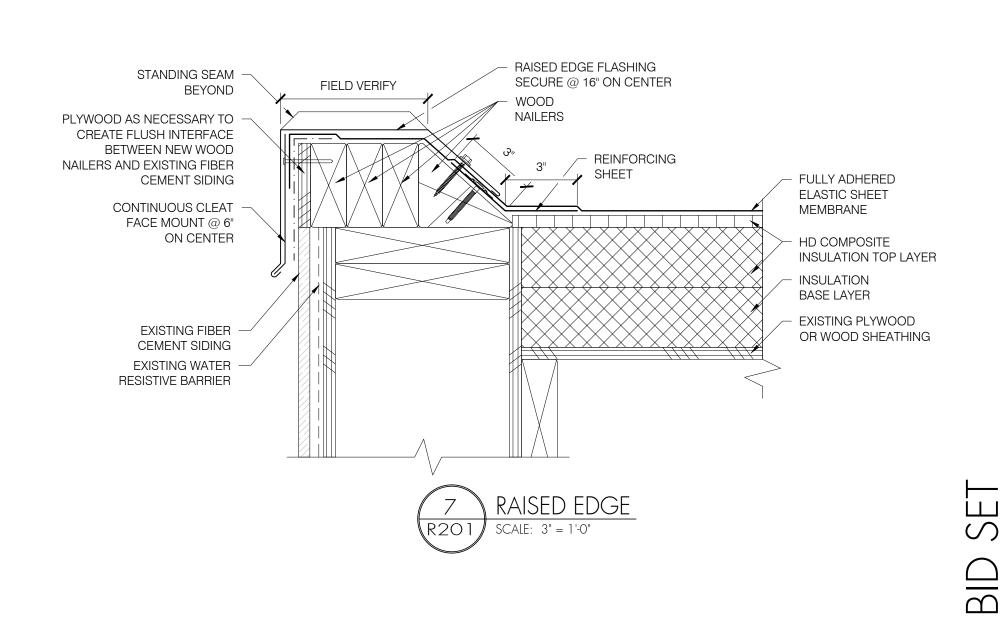
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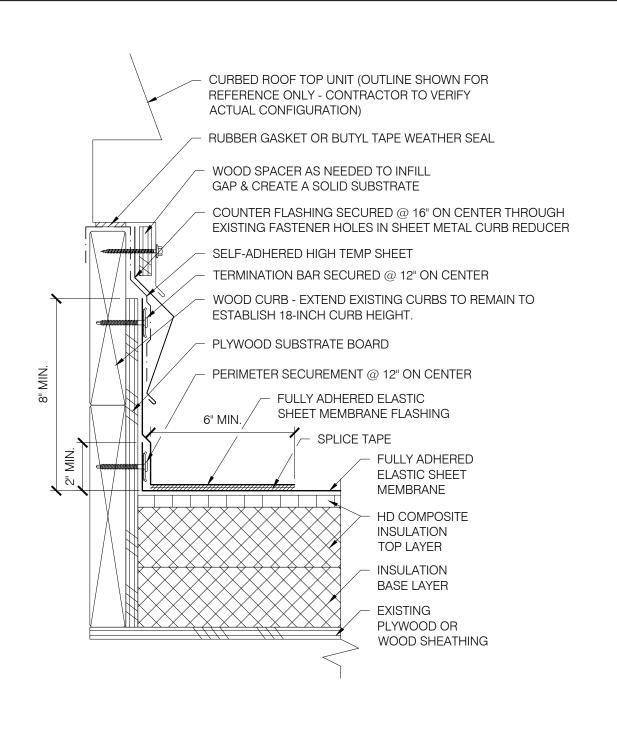
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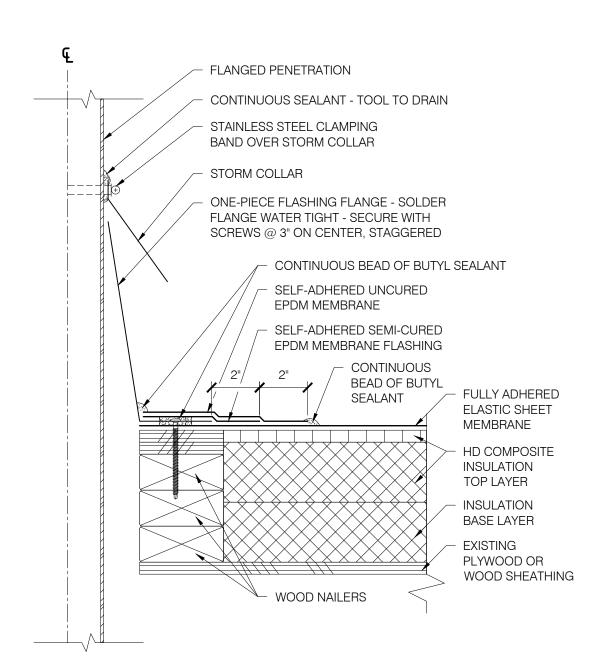
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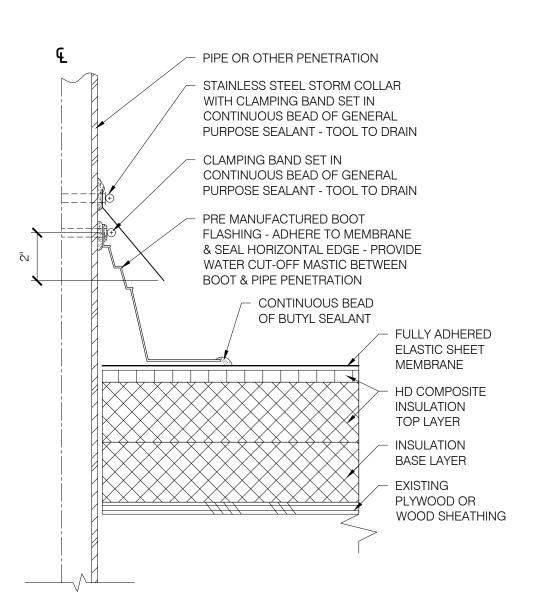
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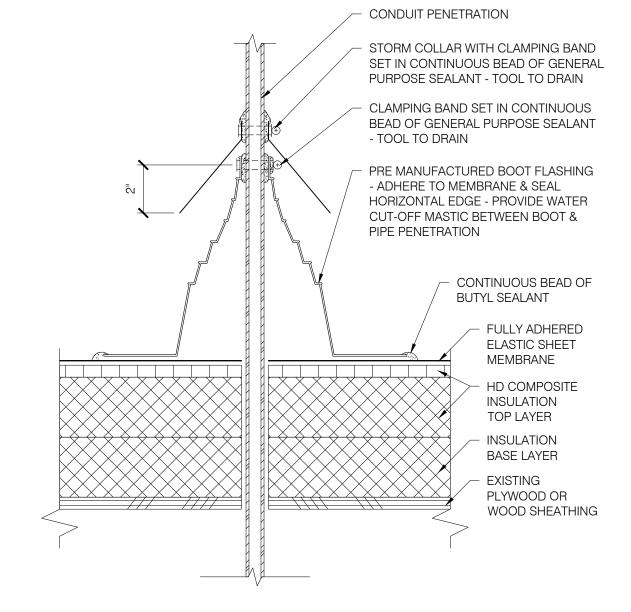
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Job:	R3055.20







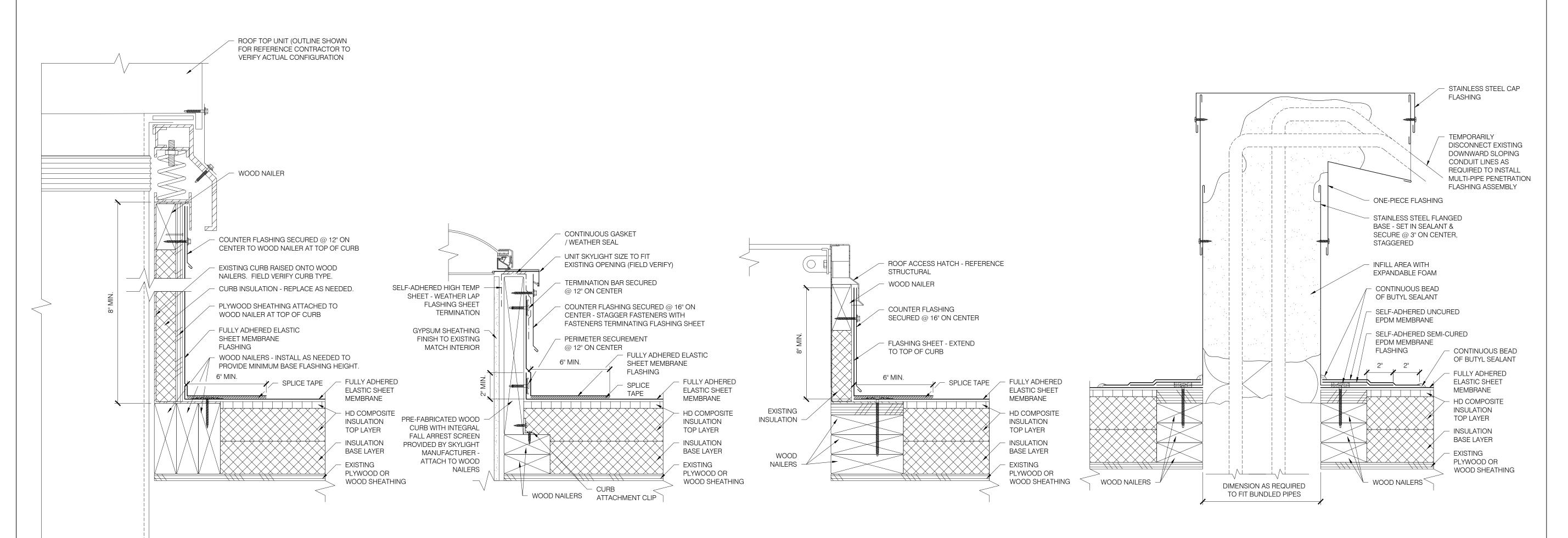


4 ELECTRICAL PENETRATION
R202 SCALE: 3" = 1'-0"









5 CURB MOUNTED ROOF TOP UNIT







ARNES ELEMENTARY SCHOOL

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GENERAL STRUCTURAL NOTES:

CODE REQUIREMENTS:

CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2019 OREGON STRUCTURAL SPECIALTY CODE, REFERENCED HEREAFTER AS IBC.

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:

LADDERS LIVE LOAD: 200 LBS.

GROUND SNOW LOAD Pg: 15 PSF FLAT-ROOF SNOW LOAD Pf: 25 PSF SNOW EXPOSURE FACTOR Ce: 1.0 SNOW IMPORTANCE FACTOR Ic: 1.10 THERMAL FACTOR Ct: 1.0

BASIC WIND SPEED (3-SEC GUST, ULTIMATE):

WIND EXPOSURE: 103 MPH BUILDING RISK CATEGORY: III BUILDING TYPE: ENCLOSED

SEISMIC IMPORTANCE FACTOR le: 1.25 SITE CLASS: D SDS = .75 SEISMIC DESIGN CATEGORY: D

SEISMIC RISK CATEGORY: III

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.

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.

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

STRUCTURAL STEEL FABRICATED ITEMS.

FALL PROTECTION SYSTEMS.

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 ARCHITECT/ENGINEER AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE ENGINEER.

DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER OF RECORD PRIOR TO FABRICATION. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE IBC. THE FOLLOWING ITEMS SHALL BE CONSIDERED DEFERRED SUBMITTALS:

A. HORIZONTAL LIFELINE FALL PROTECTION SYSTEMS

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

CONCRETE AND CMU ACCESSORIES:

CONCRETE EXPANSION ANCHORS SHALL BE "HILTI KWIK BOLT-TZ" (OR ENGINEER APPROVED EQUIVALENT) INSTALLED PER MANUFACTURER'S GUIDELINES AND CURRENT ESR REPORT. AT CMU APPLICATIONS USE "HILTI KWIK BOLT 3" ANCHORS. DO NOT INSTALL ANCHORS IN OR WITHIN 1 3/8" OF ANY HEAD JOINT PER MANUFACTURER'S RECOMMENDATIONS.

ALL MISCELLANEOUS STEEL: ASTM A36 (Fy=36,000 PSI), OR AS NOTED ASTM A572 (Fy=50 KSI). SQUARE AND RECTANGULAR HSS: ASTM A500, GRADE "C" (Fy=50,000 PSI). STRUCTURAL PIPE: ASTM A53, GRADE "B" (Fy=35,000 PSI).

ALL BOLTS: ASTM A325 UNLESS NOTED OTHERWISE. THREADED RODS: ASTM A36 UNLESS NOTED OTHERWIS

WELDING: PER AWS STANDARDS. E70XX ELECTRODE AND BY CERTIFIED WELDERS. ALL STEEL TO HAVE SHOP COAT.

ALL EXPOSED STEEL BELOW FINISH GRADE TO BE COATED WITH ASPHALTIC PAINT PRIOR TO BACKFILLING. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED PER ASTM 123 FOR STRUCTURAL STEEL AND ASTM 153 FOR BOLTS AND HARDWARE. FABRICATION OF STEEL THAT IS TO BE HOT DIP GALVANIZED SHALL ALSO MEET ASTM A385. REPAIR OF DAMAGED GALVANIZED COATING SHALL BE MADE WITH PRODUCTS MEETING ASTM A780 AND AS A MINIMUM SHALL BE 50% GREATER IN THICKNESS THAN THE SURROUNDING GALVANIZING.

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION AND SHALL BE 3/16" MINIMUM UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS. PREQUALIFIED WELDING PROCEDURES ARE TO BE USED. UNLESS AWS QUALIFICATION IS SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION.

INSTALLATION AND TIGHTENING OF ALL BOLTS SHALL BE IN ACCORDANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". UNLESS NOTED OTHERWISE BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG-TIGHT CONDITION. SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE PLIES OF THE JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

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 DF-#2 UNLESS NOTED OTHERWISE 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. DO NOT INSTALL 0.148" x 1 1/2" NAILS IN HANGERS UNLESS SPECIFICALLY NOTED ON THE PLANS & DETAILS.

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. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL CONFORM TO IBC TABLE 2304.9.1.

ALL MULTIPLE STUD OR SOLID POST POINT LOAD SUPPORTS TO EXTEND THROUGH ALL FRAMING BELOW TO SOLID BEARING AT FOUNDATION OR CARRYING GIRDER. PROVIDE FULL BEARING WITHIN JOIST SPACE AS REQUIRED.

GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AITC A190.1 AND ASTM D 3737. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND BE ACCOMPANIED BY A CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. GLULAM HANGERS NOT SHOWN SHALL BE SIMPSON EG. BEAMS SHALL BE VISUALLY GRADED WESTERN SPECIES INDUSTRIAL GRADE, AND OF THE STRENGTH INDICATED BELOW:

COMBINATION 24F - V4 DF/DF (SIMPLE SPAN)

DF/DF

ALL

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 CONTRACTORS 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 OF OREGON, AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.

(CONTINUOUS OR CANTILEVER)

24F - V8

ALL FLASHING AND WATERPROOFING SHALL BE PER PROFESSIONAL ROOF CONSULTANTS DRAWINGS..

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

UPON COMPLETION OF ALL LADDER INSTALLATIONS, PRIOR TO COVERING WITH ANY FINISH MATERIALS.

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

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

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 AREAS INDICATED IN THE SPECIAL INSPECTION PROGRAM.

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.

SPECIAL I	NSPECT	ION PR	OGRAM
ESTABLISHED PER 2018 IBC AS AMEN	DED BY T	HE 2019 C	SSC SECTION 110 & CHAPTER 17
ПЕМ	CONTINUOUS	PERIODIC	COMMENTS
GENERAL STRUCTURA	LINSPECTIONS	S AS REQUIRE	ED BY SECTION 110
FINAL INSPECTION			BY BUILDING OFFICIAL
	STEEL		
IN A CCORDANCE WITH OSSC 1705.2 AND	QUALITY ASS	URANCE INSP	PECTION REQUIREMENTS OF A ISC 360
MATERIAL VERIFICATION OF STRUCTURAL STEEL		Χ	AISC 360, SECTION M5.5 AND APPLICABLE ASTM STANDARDS
COMPLIANCE OF STEEL FRAME JOINTS TO CONSTRUCTION DOCUMENT DETAILS		Х	
WEI	DING: STRUCT	URAL STEEL	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS	DINO. OTROCT	X	AISC 360, SECTION A3.5, AWS A5 DOCUMENTS
SINGLE PASS FILLETS ≤ 5/16"		Χ	
	CONCRE	TE	<u> </u>
EXPANSION OR SCREW ANCHOR PLACEMENT		Χ	CONTINUOUS WHERE INDICATED ON DRAWINGS
MAS (FOR ALL ITEMS RE			
EXPANSION OR SCREW ANCHOR PLACEMENT		Х	
FAI	LL PROTECTIO	NSYSTEMS	
VERIFICATION OF INSTALLATION OF ALL SYSTEM		Х	OPECON OCUA AND ANGLA CCE 7350
COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUTIONS		^	OREGON OSHA AND ANSI/ASSE Z359
INDIANI ANI NATIVATIVA			

NOTE: THE SPECIAL INSPECTION PROGRAM FOR SOILS AND ANY PILE OR PIER FOUNDATIONS IS PER THE GEOTECHNICAL ENGINEER, REFERENCE IBC 1705.6, 1705.7, 1705.8 AND 1705.9.

DEFINITIONS:

- A. CONTINUOUS INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL
- TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.

IS IN CONFORMANCE WITH APPROVED PERMIT PLANS AND SPECIFICATIONS.

B. PERIODIC INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION

FALL PROTECTION GENERAL STRUCTURAL NOTES:

CODE REQUIREMENTS:

- 1. CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY THE 2019 OREGON STRUCTURAL SPECIALTY CODE, REFERENCED HEREAFTER AS IBC.
- 2. CONFORM TO OREGON OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY SUBPART M (FALL
- PROTECTION) AND ALL APPLICABLE STATE ADMINISTRATIVE CODE SAFETY STANDARDS. 3. CONFORM TO ANSI/ASSE Z359 AMERICAN NATIONAL STANDARD, CURRENT EDITION.

- 1. INDIVIDUAL ANCHORS SHALL BE USED FOR A MAXIMUM OF ONE PERSON IN FALL ARREST OR FALL RESTRAINT. 2. HORIZONTAL LIFE LINES (HLL's) SHALL BE USED FOR A MAXIMUM OF TWO PERSONS ATTACHED IN FALL
- ARREST OR FALL RESTRAINT.
- 3. PERSONAL FALL ARREST SYSTEMS (PFAS) SHALL BE LIMITED TO FULL BODY HARNESSES THAT LIMIT THE MAXIMUM FALL ARREST LOAD TO 900 LBS.
- 4. ANCHORS AND LIFE LINES ARE TO BE USED ONLY BY PERSONS TRAINED IN THEIR USE. LANYARDS, SAFETY HARNESSES, ATTACHMENTS, AND ALL OTHER PERSONAL SAFETY DEVICES ATTACHED TO THE ANCHOR ARE
- THE SOLE RESPONSIBILITY OF THE USER AND NOT TM RIPPEY CONSULTING ENGINEERS.
- 5. ANCHORS AND HLL ARE TO BE VISUALLY INSPECTED BY THE USER PRIOR TO EACH USE. 6. ANCHORS AND HLL ARE TO BE INSPECTED ANNUALLY BY A 'QUALIFIED PERSON'.
- 7. ANCHORS SHALL BE RE-CERTIFIED BY A 'COMPETENT PERSON' WHEN RE-ROOFING OR RENOVATION OR AT PERIODS NOT TO EXCEED 10 YEARS.
- 9. FALL PROTECTION SYSTEMS SERVING ROOF EDGES WITH INSUFFICIENT HEIGHT FOR FALL ARREST

CLEARANCE SHALL BE CLEARLY IDENTIFIED AS 'FALL RESTRAINT' ONLY.

ULTIMATE ANCHOR LOAD: 5000 LB ALLOWABLE LOAD: 310 LB (PER PERSON, COMBINED BODY WEIGHT AND TOOLS).

8. THE SYSTEM USER IS TO MAINTAIN A LOG BOOK OF USE AND INSPECTION.

MAXIMUM TIP-OVER ANCHOR ACTIVATION LOAD: 900 LBS.

MAXIMUM TIP-OVER LOAD APPLIED TO ROOF STRUCTURE: 1350 LBS. SYSTEM MAXIMUM ARREST FORCE (MAF): 900 LBS.

SYSTEM MAXIMUM ARREST LOAD (MAL) SHALL BE BASED ON TWO PERSONS WITHIN A SINGLE SPAN.

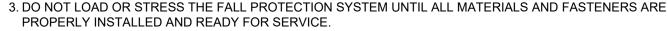
- 1. SINGLE POINT FALL ARREST ANCHORS 'GUARDIAN CB18', OR EQUIVALENT APPROVED BY THE ENGINEER. 2. HORIZONTAL LIFE LINE - DBI-SALA 'ROOFSAFE' TIP-OVER ANCHOR AND CABLE SYSTEM OR EQUIVALENT APPROVED BY THE ENGINEER.
- 3. HLL CABLE CONTINUOUS STAINLESS STEEL. CABLE SHALL BE THE PRODUCT OF DBI/SALA OR EQUIVALENT APPROVED BY THE ENGINEER.

HORIZONTAL LIFELINE FALL PROTECTION SYSTEM IS A DEFERRED SUBMITTAL:

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION AND SHALL BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON.

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

- 1. INSTALL IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- 2. SYSTEM SHALL BE INSTALLED UNDER THE DIRECTION OF THE MANUFACTURER'S AUTHORIZED TRAINED PERSONNEL AND UNDER THE SUPERVISION OF A QUALIFIED PERSON.





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EXP: 6/30/20

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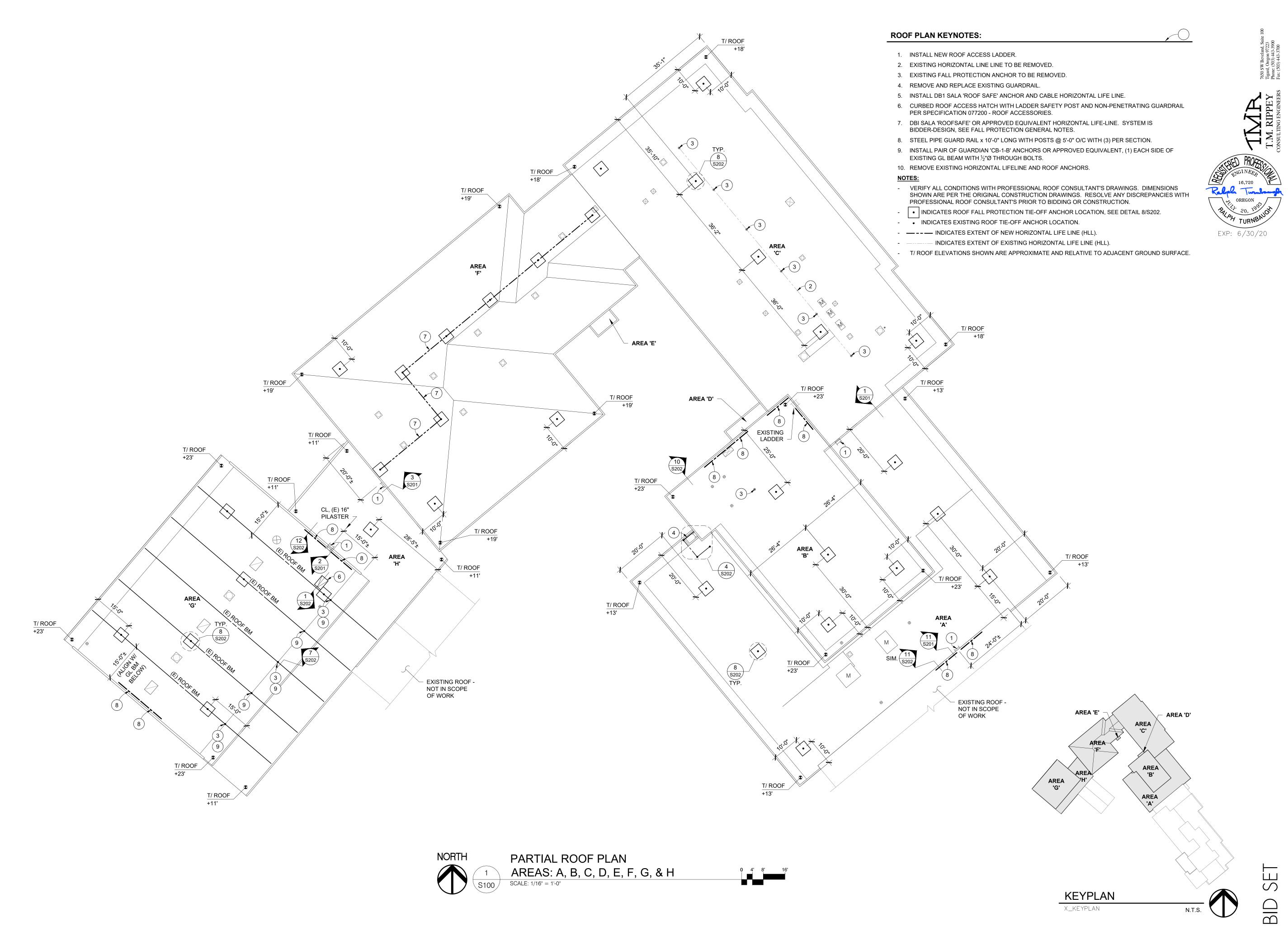
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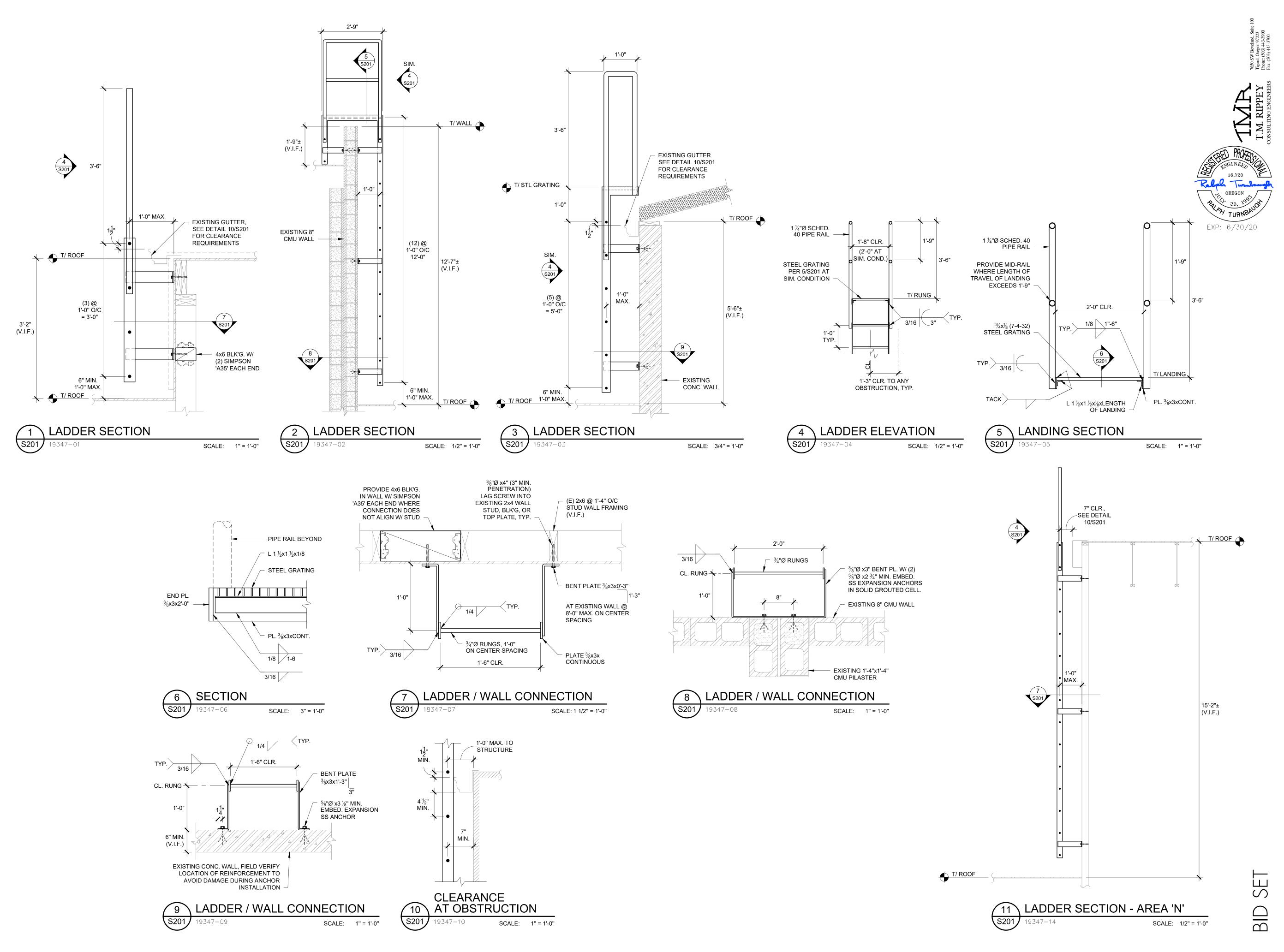
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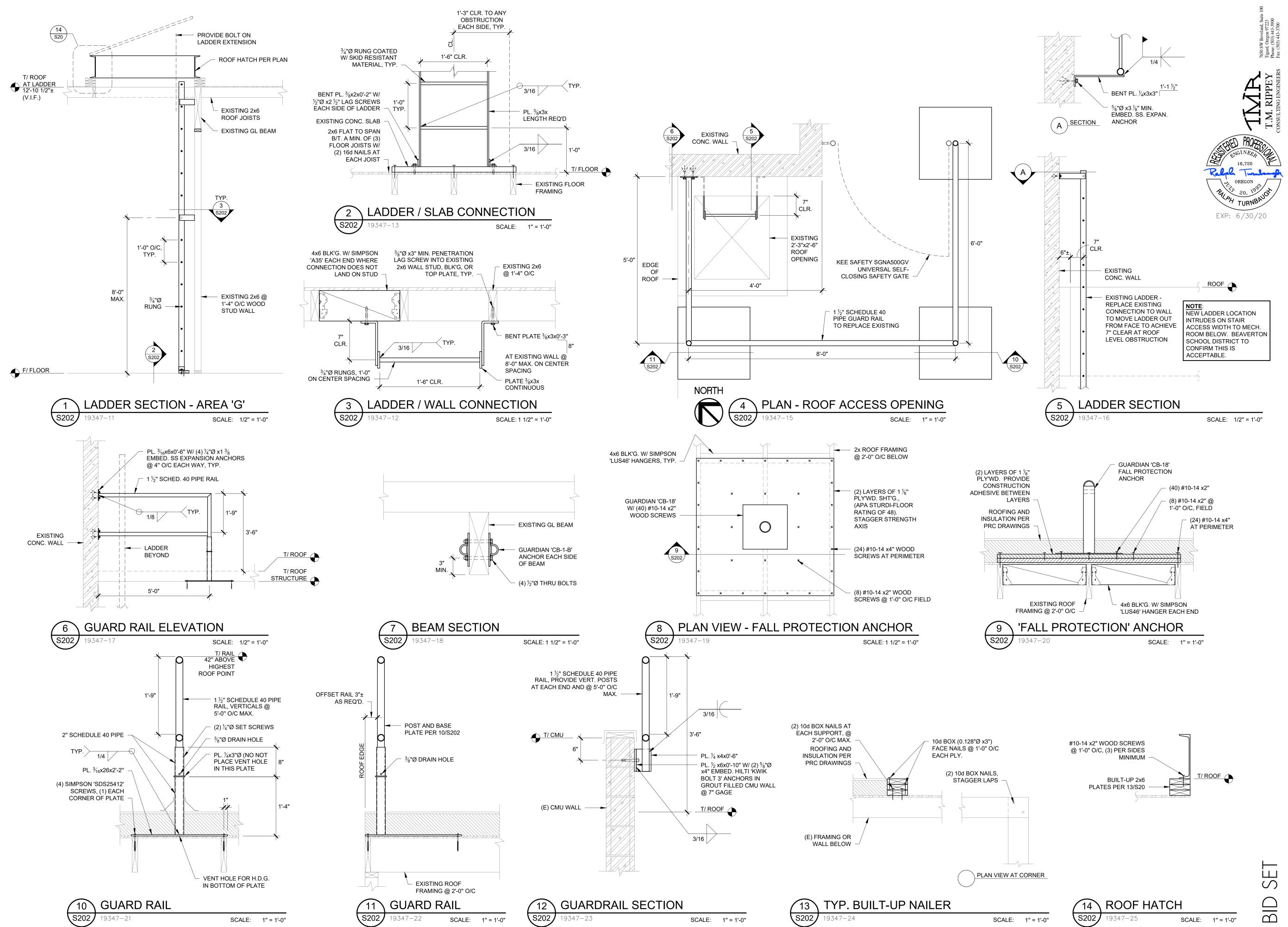
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