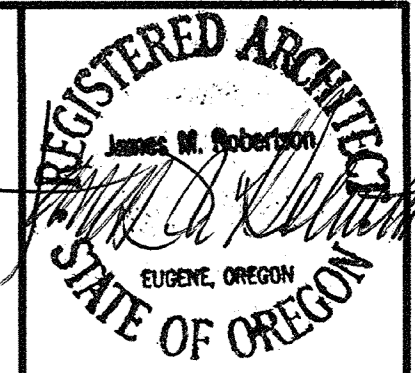


# Multisite Roofing 2016

## C.I.P. #450.780.209

### Kelly Middle School and Willard School

### Eugene School District 4J, Eugene, Oregon



4J SCHOOL DISTRICT  
EUGENE, OREGON

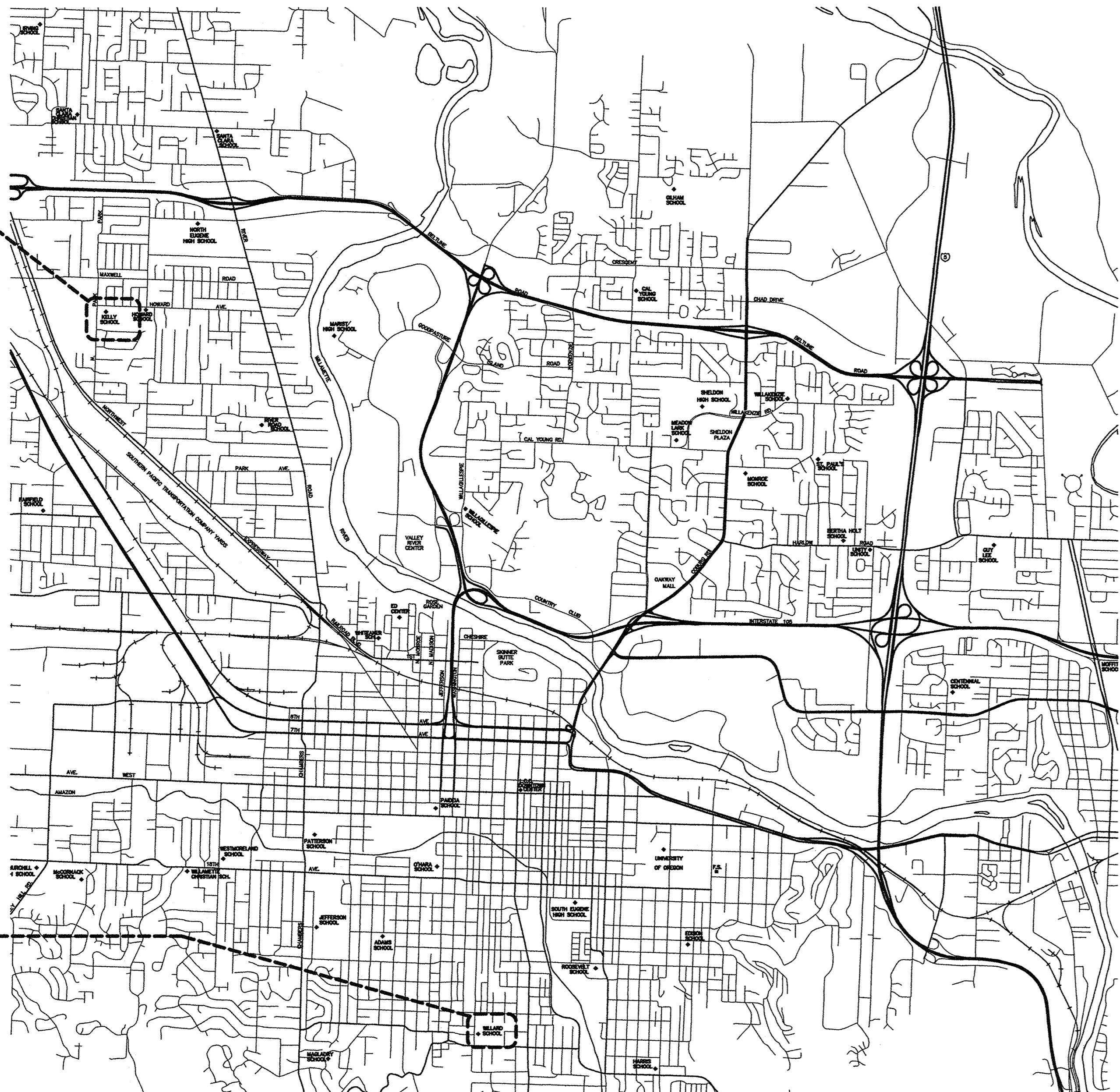
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132 East Broadway, Suite 540  
Eugene, Oregon 97401

MULTISITE ROOFING 2016 - C.I.P. #420.780.209  
Kelly Middle School and Willard School



BASE BID A - KELLY MIDDLE SCHOOL  
850 HOWARD AVENUE  
EUGENE, OREGON 97404

BASE BID B - WILLARD SCHOOL  
2855 LINCOLN STREET  
EUGENE, OREGON 97405

A1 VICINITY MAP  
G1 NOT TO SCALE

#### PROJECT TEAM

**OWNER**  
EUGENE PUBLIC SCHOOL DISTRICT 4J  
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541-790-7420 (FAX)

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**STRUCTURAL ENGINEER**  
METZLER ENGINEERING GROUP  
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EUGENE, OREGON 97402  
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541-344-1821 (FAX)

#### ABBREVIATIONS

AV	AIR VENTILATOR
BLKG	BLOCKING
BTW	BETWEEN
BUR	BUILT-UP ROOF
CONT	CONTINUOUS
CNTRFLSHG	COUNTERFLASHING
¢	PENNY
DD	DOWNSPOUT DROP
DS	DOWNSPOUT
(E)	EXISTING
EA	EACH
EQ	EQUAL
FLSHG	FLASHING
GA	GAGE
GALV	GALVANIZED
GJ	GUTTER JOINT
INSUL	INSULATION
JT(S)	JOINT(S)
MB	MODIFIED BITUMEN
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
N.T.S.	NOT TO SCALE
OC	ON CENTER
OD	OVERFLOW DRAIN
OPP	OPPOSITE
PLYWD	PLYWOOD
PT	PRESSURE TREATED
PSI	PONDS PER SQUARE INCH
PRE-FIN	PRE-FINISHED
PV	PLUMBING VENT STACK
REQ'D	REQUIRED
RH	ROOF HATCH
SD	SCUPPER DRAIN
SIM	SIMILAR
SM	SHEET METAL
SP	SPLASH PAN
SS	STAINLESS STEEL
TYP	TYPICAL
U.N.O.	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT

#### SHEET INDEX

**GENERAL**  
G1 COVER SHEET, DRAWING INDEX, VICINITY MAP  
G2 SITE PLANS, SCOPE OF WORK, GENERAL NOTES, FASTENING SCHEDULE

**ARCHITECTURAL**  
A1 KELLY MIDDLE SCHOOL ROOF PLAN, MECHANICAL ROOM PLAN, MECHANICAL ROOM SECTION  
A2 KELLY MIDDLE SCHOOL ROOF DETAILS, LADDER DETAILS  
B1 WILLARD SCHOOL ROOF PLAN  
B2 WILLARD SCHOOL ROOF DETAILS

**STRUCTURAL**  
S1 WILLARD SCHOOL ROOF PLAN

#### SYMBOLS

	KEYED NOTE REFERENCE
	DETAIL REFERENCE
	EXTERIOR ELEVATION REFERENCE

#### CODE INFORMATION

APPLICABLE CODE: 2014 OREGON STRUCTURAL SPECIALTY CODE - BASED ON 2012 INTERNATIONAL BUILDING CODE

OCCUPANCY: SCHOOL CLASSROOMS: E

CONSTRUCTION TYPES:  
KELLY MIDDLE SCHOOL: TYPE V-A  
WILLARD SCHOOL: TYPE V-B

COVER SHEET  
DRAWING INDEX  
VICINITY PLAN

Drawn By BDH  
Checked [Signature]  
Date 4/13/16  
Project 1607

G1

## SCOPE OF WORK

### KELLY MIDDLE SCHOOL

- REFER TO SHEET A1.
- EXISTING BUILT-UP ROOF TO REMAIN. CUT OUT BLISTERS AND OTHER DEFECTS. FILL VOIDS FROM CUTOUTS AND REPAIR VAPOR RETARDER WHERE DAMAGED.
- REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS. REPLACE MOPPED-IN COLLAR FLASHINGS WITH NEW.
- INSTALL NEW COVER BOARD, SINGLE-PLY ROOF, FLASHINGS, AND OTHER ITEMS AS DETAILED AND SPECIFIED.
- REINSTALL EQUIPMENT AND FLASHINGS SALVAGED FOR REUSE. PAINT NEW AND EXISTING ROOFTOP EQUIPMENT AND SHEET METAL EXCEPT PRE-FINISHED METAL.

### WILLARD SCHOOL

#### GENERAL

- REFER TO SHEET B1.

#### GYMNASIUM ROOF:

- REMOVE EXISTING BUILT-UP ROOF MATERIAL DOWN TO DECK. USE HAND SPUDGING DEMOLITION ONLY; DO NOT USE MECHANICAL SPUDGING. DO NOT SAW CUT ROOF. PROTECT MATERIALS TO BE REUSED.
- REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS.
- PROVIDE NEW ROOF SHEATHING AND SEISMIC ANCHORS.
- INSTALL NEW COVER BOARD, SINGLE-PLY ROOF MEMBRANE, FLASHINGS, AND OTHER ITEMS AS DETAILED AND SPECIFIED.
- REINSTALL EQUIPMENT AND FLASHINGS SALVAGED FOR REUSE. PAINT NEW AND EXISTING ROOFTOP EQUIPMENT AND SHEET METAL EXCEPT PRE-FINISHED METAL.

#### LOWER ROOFS -- ALTERNATE NO. 1:

- REMOVE EXISTING BUILT-UP ROOF MATERIAL DOWN TO DECK. USE HAND SPUDGING DEMOLITION ONLY; DO NOT USE MECHANICAL SPUDGING. DO NOT SAW CUT ROOF. PROTECT MATERIALS TO BE REUSED.
- REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS.
- PROVIDE NEW ROOF SHEATHING AND SEISMIC ANCHORS.
- INSTALL NEW BUILT-UP ROOF, FLASHINGS, AND OTHER ITEMS AS DETAILED AND SPECIFIED.
- REINSTALL EQUIPMENT AND FLASHINGS SALVAGED FOR REUSE. PAINT NEW AND EXISTING ROOFTOP EQUIPMENT AND SHEET METAL EXCEPT PRE-FINISHED METAL.

## GENERAL NOTES

- PROTECT EXISTING BUILDINGS, YARDS, AND ADJACENT ROOF SURFACES FROM DAMAGE AND DEBRIS. REPAIR DAMAGE OCCURRING DURING THE WORK.
- BUILDING DIMENSIONS AND LOCATIONS OF ROOF PENETRATIONS ARE APPROXIMATE. VERIFY DIMENSIONS, LOCATIONS, AND QUANTITIES.
- INSPECT ROOF SUBSTRATE FOR DECAY AND REPORT UNSATISFACTORY CONDITIONS TO ARCHITECT FOR REMEDY.
- MAINTAIN TEMPORARY WATERPROOF COVERINGS UNTIL ROOFING IS COMPLETE.
- REPAIR EXISTING CEILINGS AND LIGHT FIXTURES DAMAGED DURING TEAR-OFF, SEISMIC UPGRADES, AND REROOFING WORK.
- VERIFY LOCATIONS OF STAGING AREAS WITH OWNER.
- DETAILS SHOW MINIMUM REQUIREMENTS FOR ROOFING COMPONENTS. FOLLOW SELECTED MANUFACTURER'S REQUIREMENTS WHEN THEY EXCEED THESE MINIMUMS.
- DISCONNECT ELECTRICITY IN CONDUITS AFFECTED BY THE WORK, INCLUDING POWER TO MECHANICAL UNITS. RECONNECT AND TEST OPERATION OF UNITS. ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR.
- AT CHANGES IN ROOF PLANE, EASE EDGES WITH CANT STRIPS AND TAPERED EDGE STRIPS.
- WHERE EXISTING WOOD ROOF DECKING IS EXPOSED TO INTERIOR SPACE BELOW, INSTALL PLASTIC SHEETING TO CATCH DEBRIS DURING DEMOLITION. AFTER PLASTIC IS REMOVED, ENSURE THAT ALL STAPLES AND/OR TAPE FASTENERS ARE ALSO REMOVED.
- USE SHORTEST POSSIBLE FASTENERS REQUIRED TO ACHIEVE MANUFACTURERS' RECOMMENDED PENETRATION.

## FASTENING SCHEDULE

#### MODIFIED BITUMEN FLASHING:

#### METAL FLANGES AT AIR VENTS:

#### PRE-FINISHED SHEET METAL SKIRTS AT EXHAUST FANS:

#### PRE-FINISHED FLASHING AND COUNTERFLASHING:

#### SURFACE MOUNT REGLETS TO CONCRETE OR MASONRY:

#### CONTINUOUS CLEATS AND REGLETS TO WOOD:

#### SPLASH PANS:

#### PLYWOOD BACKING:

#### OVERFLOWS, SCUPPER DRAINS, DOWNSPOUT DROPS:

#### METAL GRAVEL STOP:

#### GUTTERS TO FASCIAS:

LARGE HEAD SIMPLEX OR APPROVED NAILS  
 VERTICAL SURFACES: 4" O/C  
 HORIZONTAL SURFACES: 8" O/C

LARGE HEAD HOT DIPPED 12 GA GALV ROOFING NAILS AT 4" O/C

PRE-FINISHED SHEET METAL SCREWS WITH NEOPRENE WASHERS AT 8" O/C

PRE-FINISHED SHEET METAL SCREWS WITH NEOPRENE WASHERS AT 24" O/C

COMPRESSION PINS AT 8" O.C. AT REGLET. FILL SEALANT RECEPTACLE WITH SEALANT.

GALVANIZED NAILS AT 12" O.C.

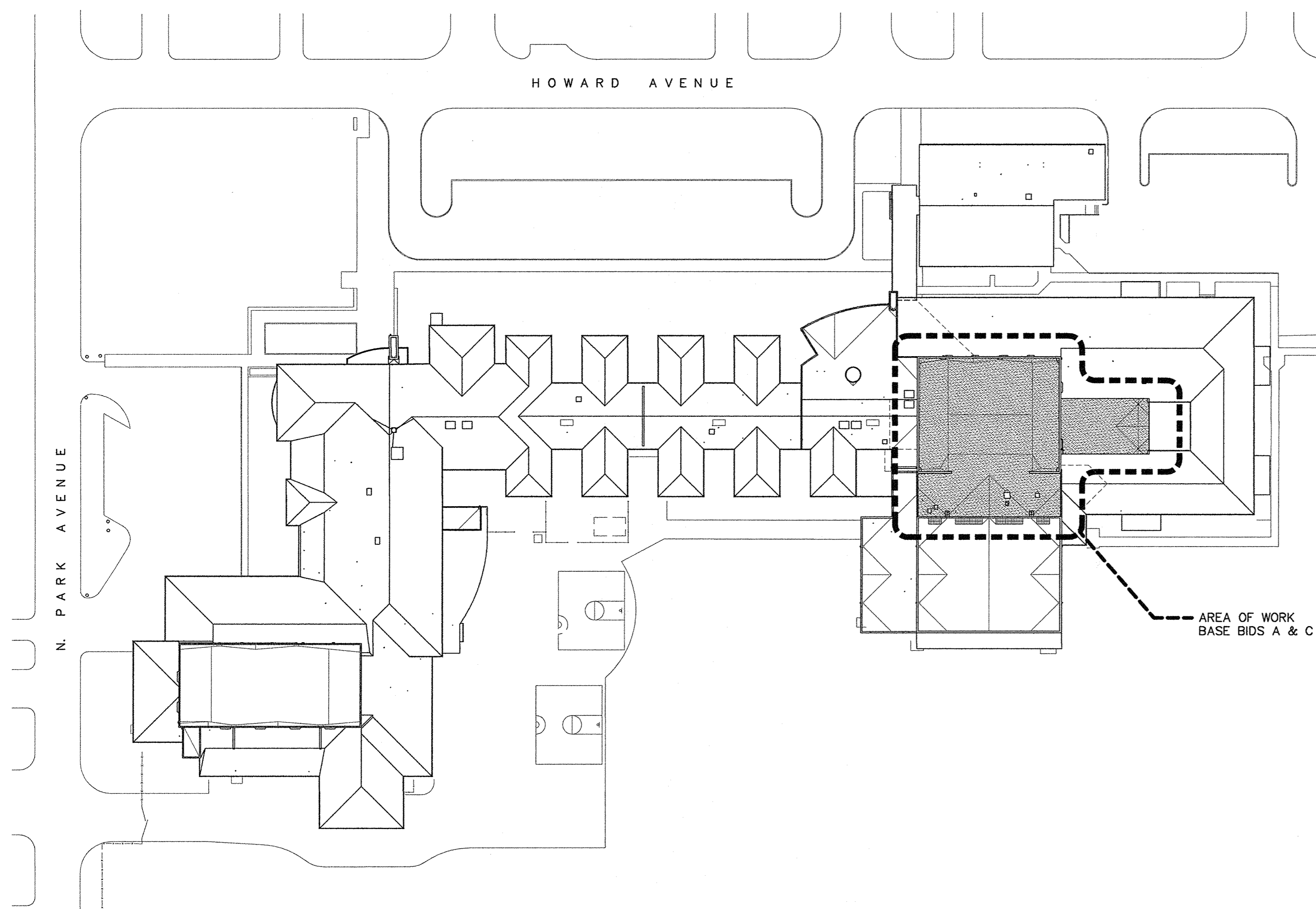
(2) POP RIVETS TO SHEET METAL COUNTERFLASHING WHERE POSSIBLE; OTHERWISE, SET IN MASTIC.

10d GALV NAILS AT 12" OC AT WOOD FRAMING. AT CONCRETE OR CMU: COMPRESSION PINS AT 18" OC, STAGGERED PATTERN

LARGE HEAD HOT DIPPED 12 GA GALVANIZED ROOFING NAIL AT EACH CORNER

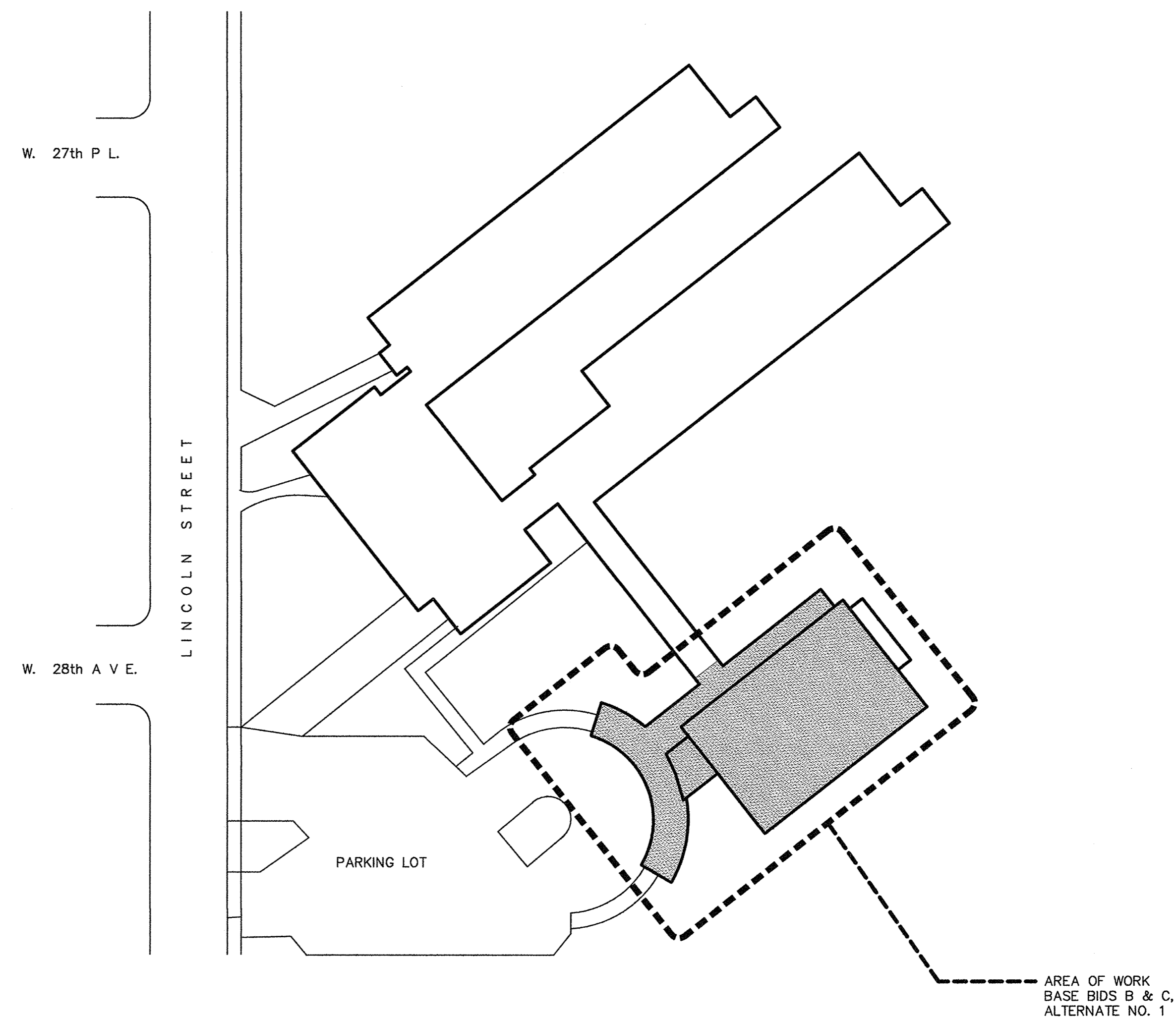
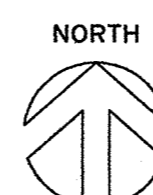
LARGE HEAD HOT DIPPED 12 GA GALVANIZED ROOFING NAIL AT 3" OC; STAGGERED PATTERN. REFER TO DETAIL C3/B2, SIMILAR

CONCEALED STRAP FASTENERS AT 3'-0" OC WITH PRE-FINISHED SHEET METAL SCREWS WITH NEOPRENE WASHERS BELOW EDGE METAL. DOUBLE UP STRAPS LAST 6 FEET OF GUTTER.



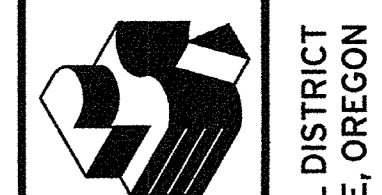
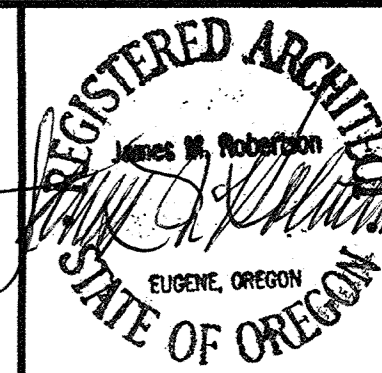
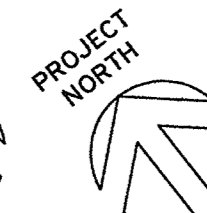
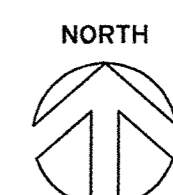
**A1** KELLY MIDDLE SCHOOL SITE PLAN  
**G2** NOT TO SCALE

850 HOWARD AVENUE, EUGENE, OR 97404



**A4** WILLARD SCHOOL SITE PLAN  
**G2** NOT TO SCALE

2855 LINCOLN STREET, EUGENE, OR 97405

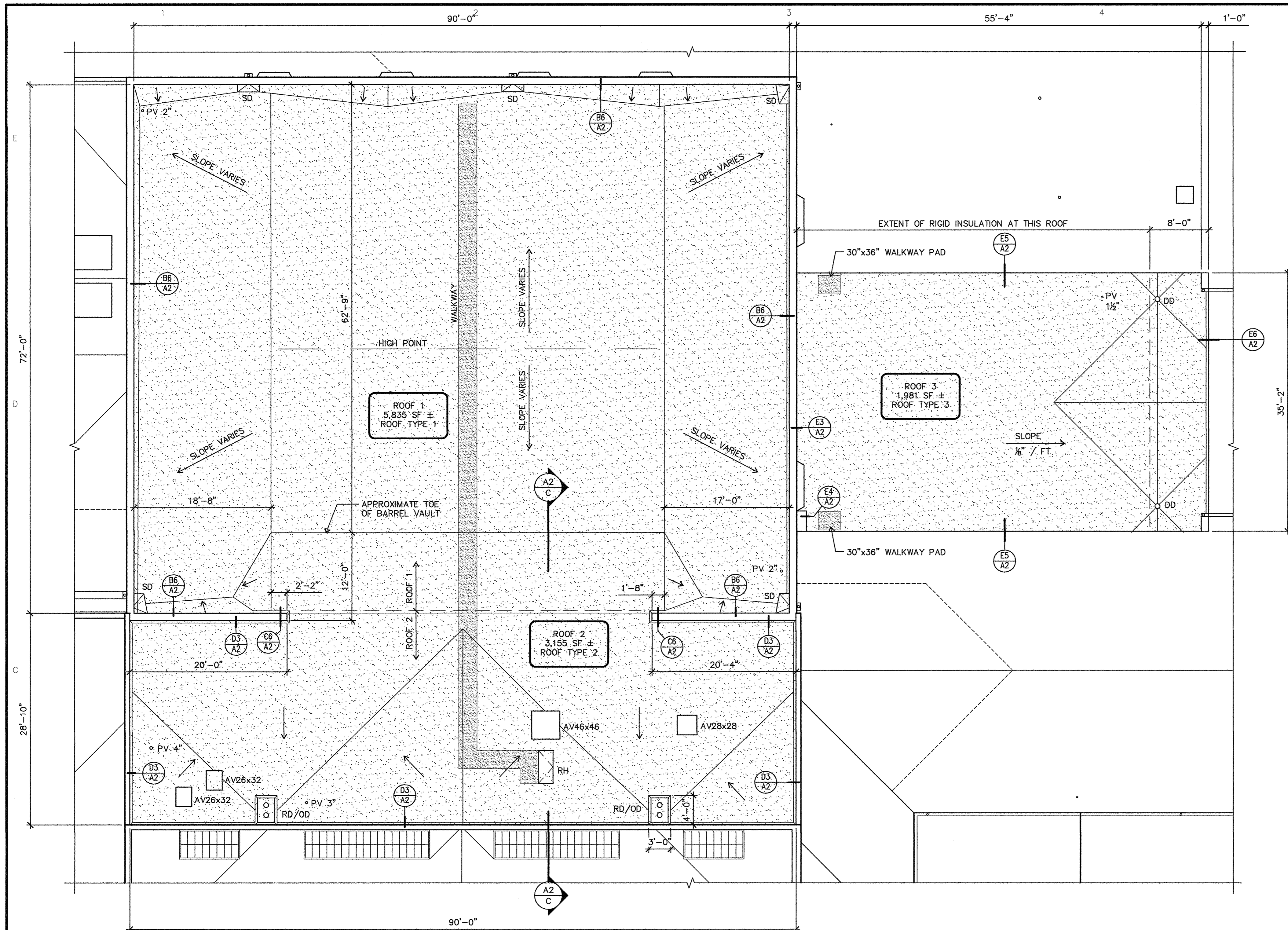


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**MULTISITE ROOFING 2016 - C.I.P. #420.780.209**  
 Kelly Middle School and Willard School  
 4J SCHOOL DISTRICT  
 EUGENE, OREGON

**SITE PLANS**  
**SCOPE OF WORK**  
**GENERAL NOTES**  
**FASTENING SCHEDULE**

Drawn By: BDH  
 Checked: [Signature]  
 Date: 4/13/16  
 Project: 1607

**G2**



**ROOF PLAN LEGEND**

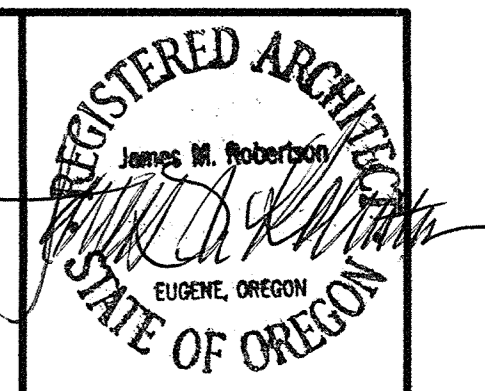
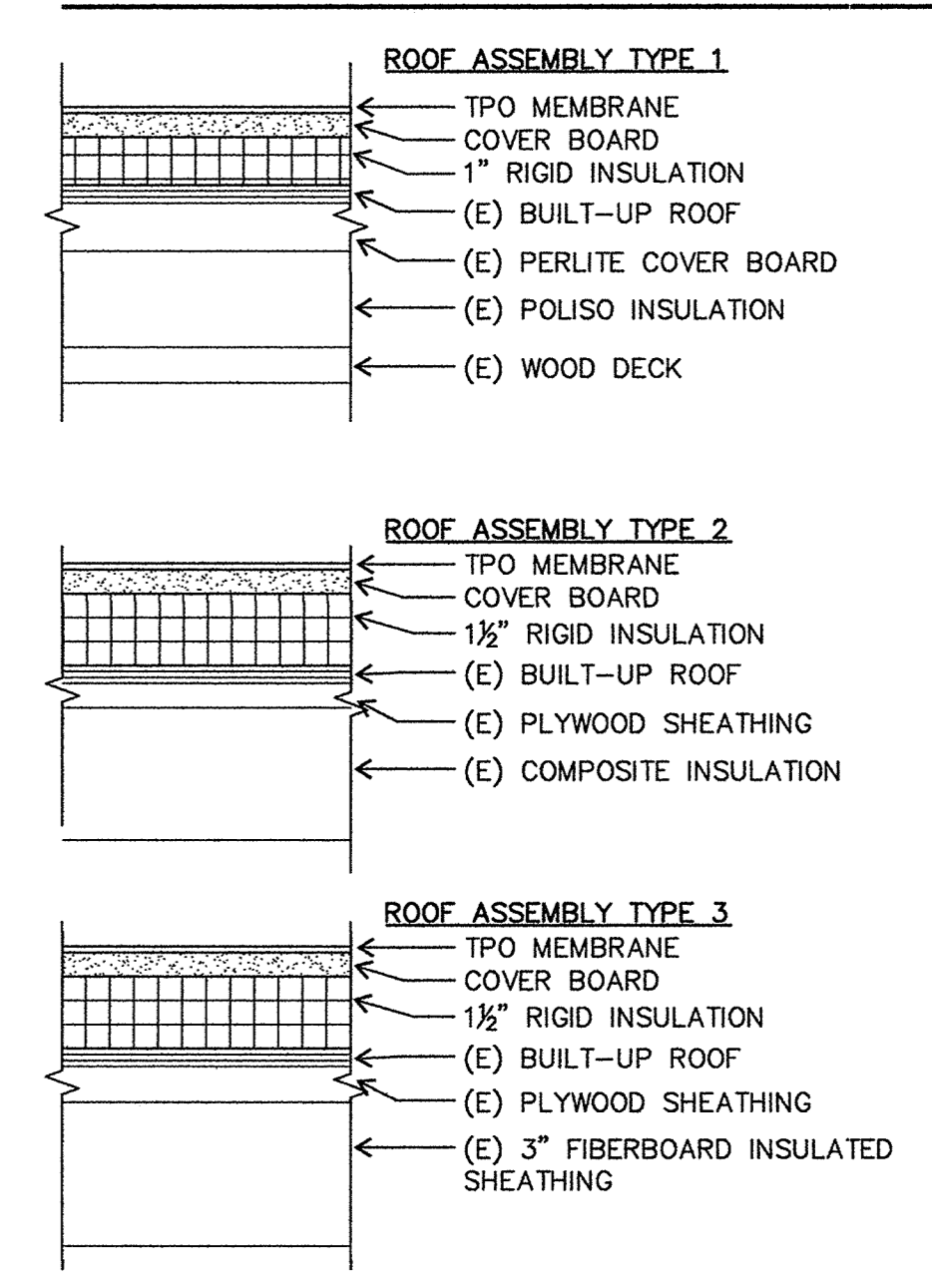
NOTE: SIZES OF ROOF PENETRATIONS AND CURBS INDICATED IN INCHES.

- NEW TPO MEMBRANE
- NEW WALKWAY PADS
- (E) SLOPE
- DD (E) DOWNSPOUT DROP <sup>(D4)</sup>/<sub>(A2)</sub>
- AV (E) AIR VENTILATOR <sup>(C5)</sup>/<sub>(A2)</sub>
- PV (E) PLUMBING VENT <sup>(B5)</sup>/<sub>(A2)</sub>
- RD/OD (E) ROOF DRAIN & OVERFLOW DRAIN <sup>(D5)</sup>/<sub>(A2)</sub>
- RH (N) ROOF ACCESS HATCH <sup>(D2)</sup>/<sub>(A2)</sub>
- SD (E) SCUPPER DRAIN <sup>(B3)</sup>/<sub>(A2)</sub>

**GENERAL NOTES**

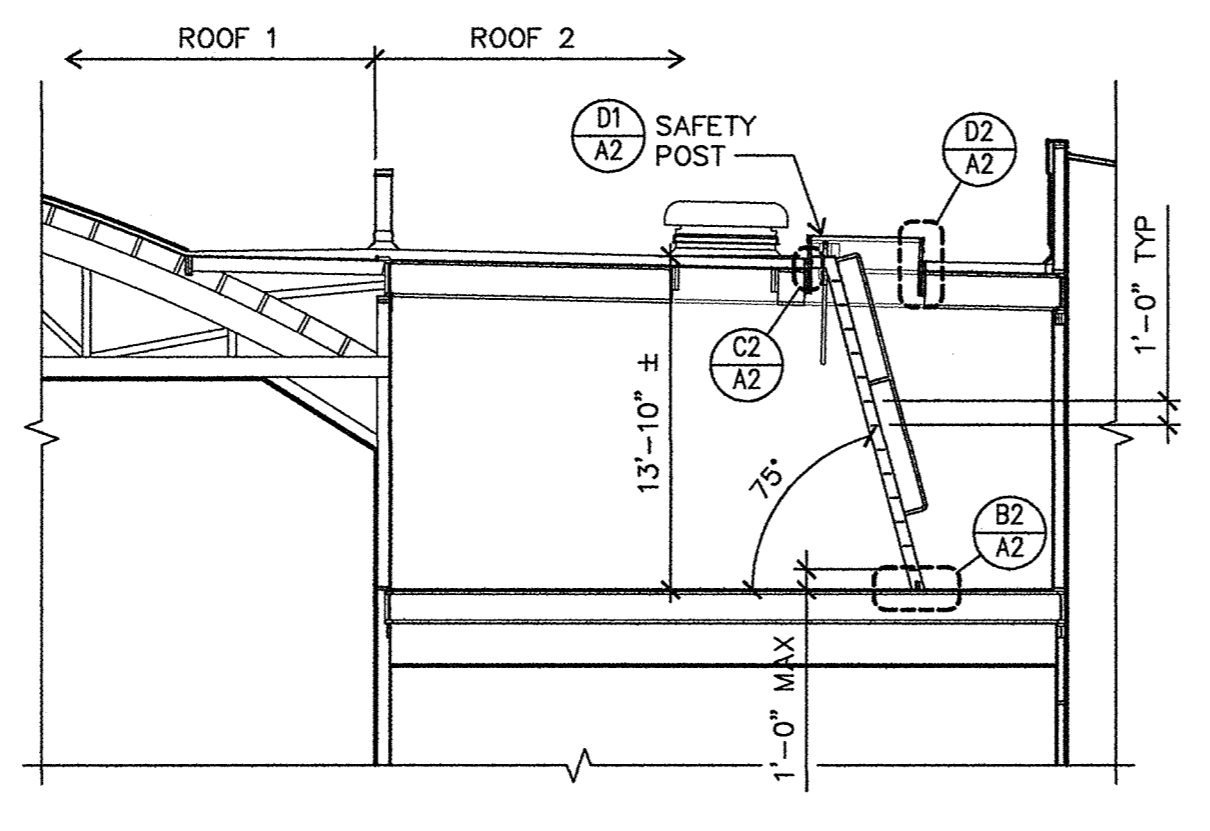
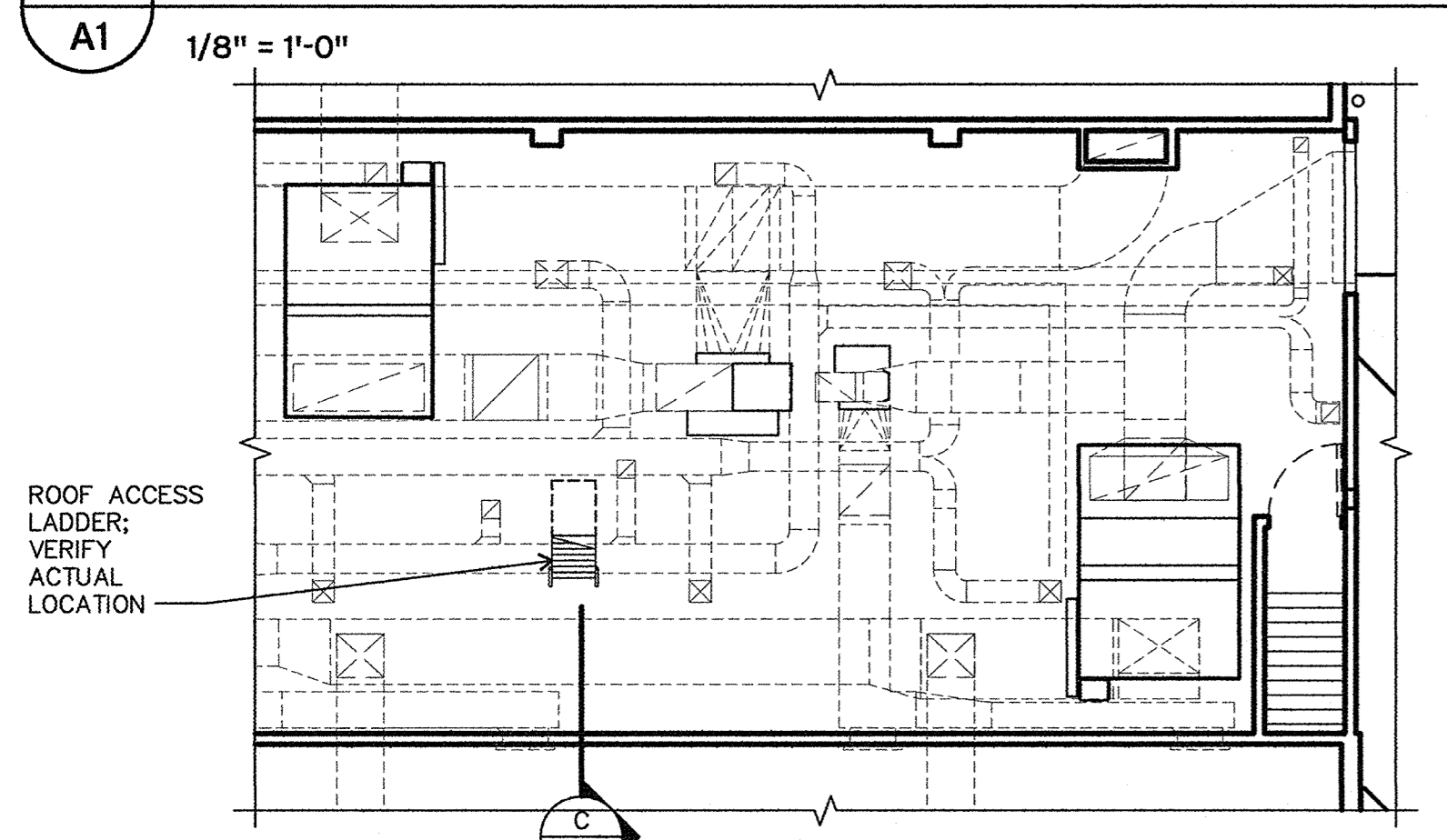
1. EXISTING BUILT-UP ROOF TO REMAIN. CUT OUT BLISTERS AND OTHER DEFECTS. FILL VOIDS FROM CUTOUTS AND REPAIR VAPOR RETARDER WHERE DAMAGED.
2. REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS. REPLACE MOPPED-IN COLLAR FLASHINGS WITH NEW.
3. INSTALL NEW COVER BOARD, SINGLE-PLY ROOF, FLASHINGS, AND OTHER ITEMS AS DETAILED AND SPECIFIED.
4. REINSTALL EQUIPMENT AND FLASHINGS SALVAGED FOR REUSE. PAINT NEW AND EXISTING ROOFTOP EQUIPMENT AND SHEET METAL EXCEPT PRE-FINISHED METAL.
5. EXTEND CURBS, PLUMBING VENTS, AND OTHER ITEMS WHERE NECESSARY AS INDICATED IN DETAILS.

**ROOF TYPES**

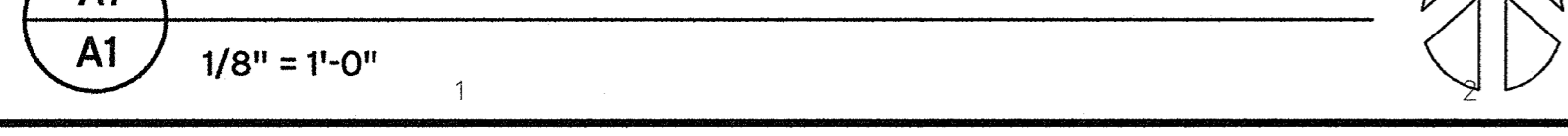


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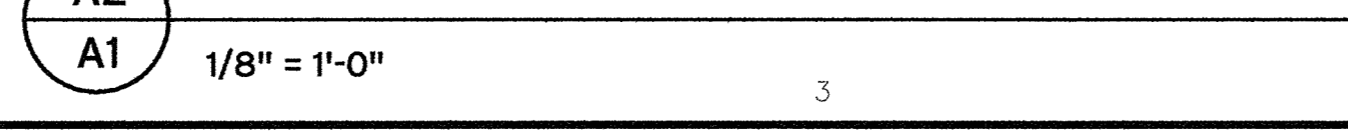
**B1 A1 KELLY MIDDLE SCHOOL ROOF PLAN**



**A1 A1 PARTIAL MECHANICAL ROOM PLAN**



**A2 A1 KELLY MIDDLE SCHOOL SECTION AT MECHANICAL ROOM**

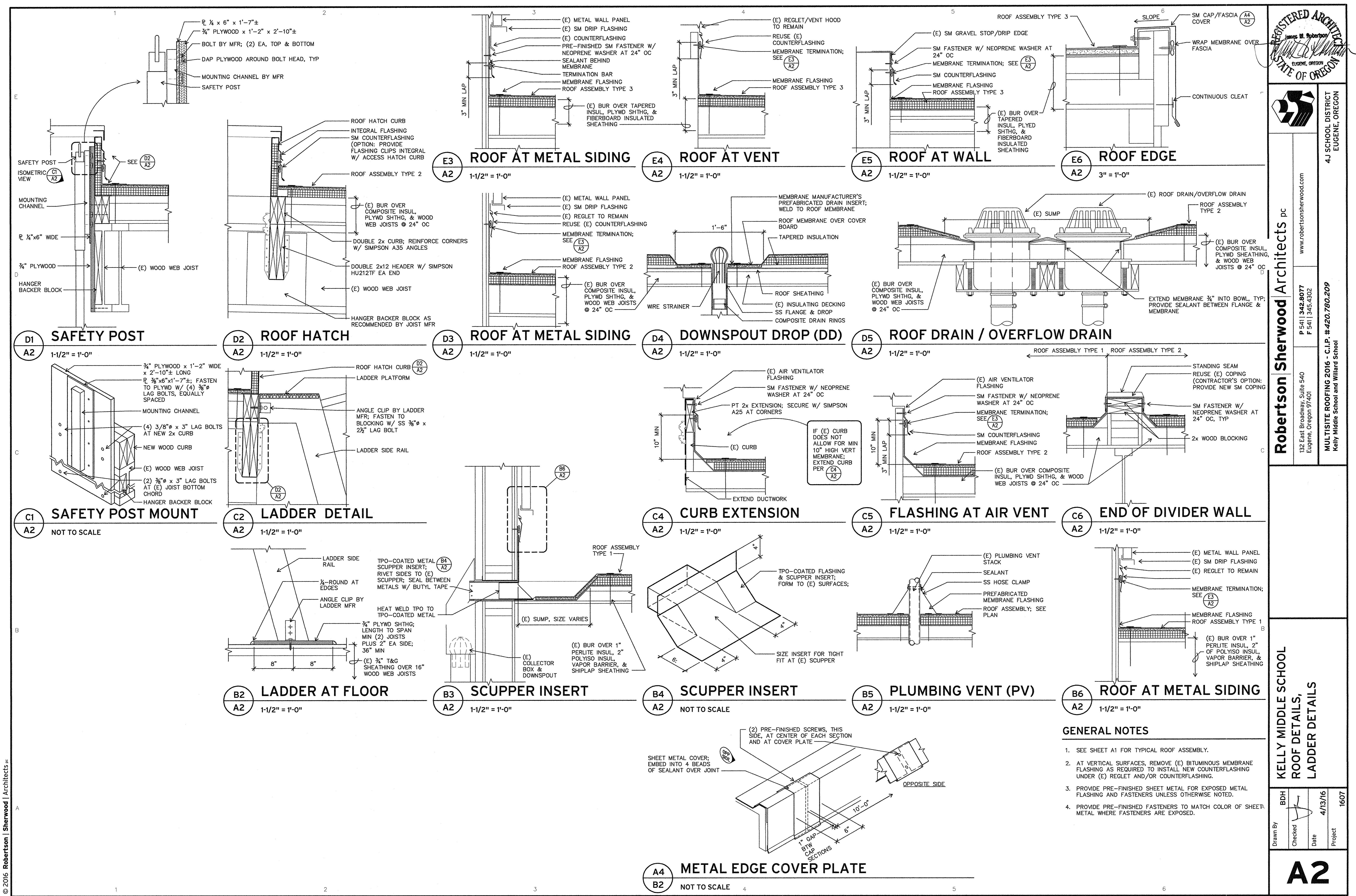


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**KELLY MIDDLE SCHOOL  
 ROOF PLAN,  
 MECHANICAL RM PLAN,  
 MECHANICAL RM SECTION**

Drawn By: BDH  
 Checked: [Signature]  
 Date: 4/13/16  
 Project: 1607

**A1**



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REGISTERED ARCHITECT  
James M. Robertson  
EUGENE, OREGON  
STATE OF OREGON



4J SCHOOL DISTRICT  
EUGENE, OREGON

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MULTISITE ROOFING 2016 - C.I.P. #420.760.209  
Kelly Middle School and Willard School

KELLY MIDDLE SCHOOL  
ROOF DETAILS,  
LADDER DETAILS

Drawn By: BDH  
Checked: [Signature]  
Date: 4/13/16  
Project: 1607

**A2**

**GENERAL NOTES**

- SEE SHEET A1 FOR TYPICAL ROOF ASSEMBLY.
- AT VERTICAL SURFACES, REMOVE (E) BITUMINOUS MEMBRANE FLASHING AS REQUIRED TO INSTALL NEW COUNTERFLASHING UNDER (E) REGLET AND/OR COUNTERFLASHING.
- PROVIDE PRE-FINISHED SHEET METAL FOR EXPOSED METAL FLASHING AND FASTENERS UNLESS OTHERWISE NOTED.
- PROVIDE PRE-FINISHED FASTENERS TO MATCH COLOR OF SHEET METAL WHERE FASTENERS ARE EXPOSED.

**ROOF PLAN LEGEND**

NOTE: SIZES OF ROOF PENETRATIONS AND CURBS INDICATED IN INCHES.

- BUILT-UP ROOFING AT LOWER ROOFS  
ALTERNATE NO. 1
- AREA TO RECEIVE RIGID INSULATION
- AV (E) AIR VENTILATOR (D6/B2)
- DD1 DOWNSPOUT DROP AT TPO ROOF (D4/B2) EXISTING UNLESS NOTED OTHERWISE
- DD2 (E) DOWNSPOUT DROP AT BUILT-UP ROOF (ALTERNATE NO. 2) (A2/B2)
- DS (E) DOWNSPOUT (A4/B2)
- GJ GUTTER JOINT (A3/B2)
- PV (E) PLUMBING VENT
- SP SPLASH PAN

**KEY NOTES**

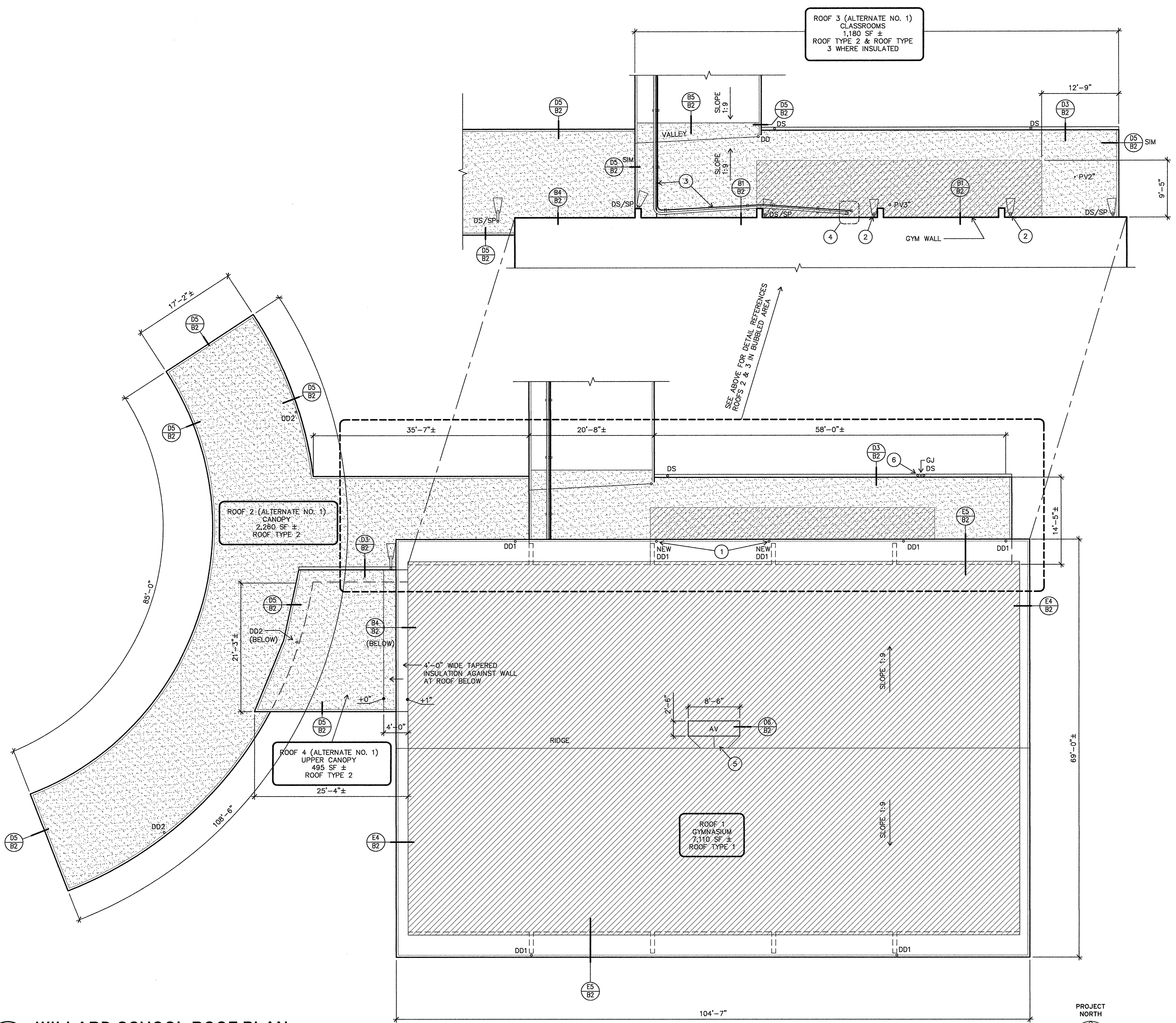
- 1 NEW DOWNSPOUT DROP (D2/B2)
- 2 NEW DOWNSPOUT FROM ROOF ABOVE W/ SPLASHPAN (A3/B2)
- 3 (E) ELECTRICAL CONDUITS; REUSE (E) WOOD SLEEPERS OVER NEW MODIFIED BITUMEN CAP SHEET PROTECTION LAYER ADHERED TO BUR W/ MB FLASHING CEMENT; SPACE SLEEPERS SO THAT LOAD ON ROOF DOES NOT EXCEED 16 PSI
- 4 (2) PITCH POCKETS (E2/B2)
- 5 NEW TAPERED INSULATION CRICKET
- 6 NEW DOWNSPOUT; TIE INTO EXISTING DOWNSPOUT

**GENERAL NOTES**

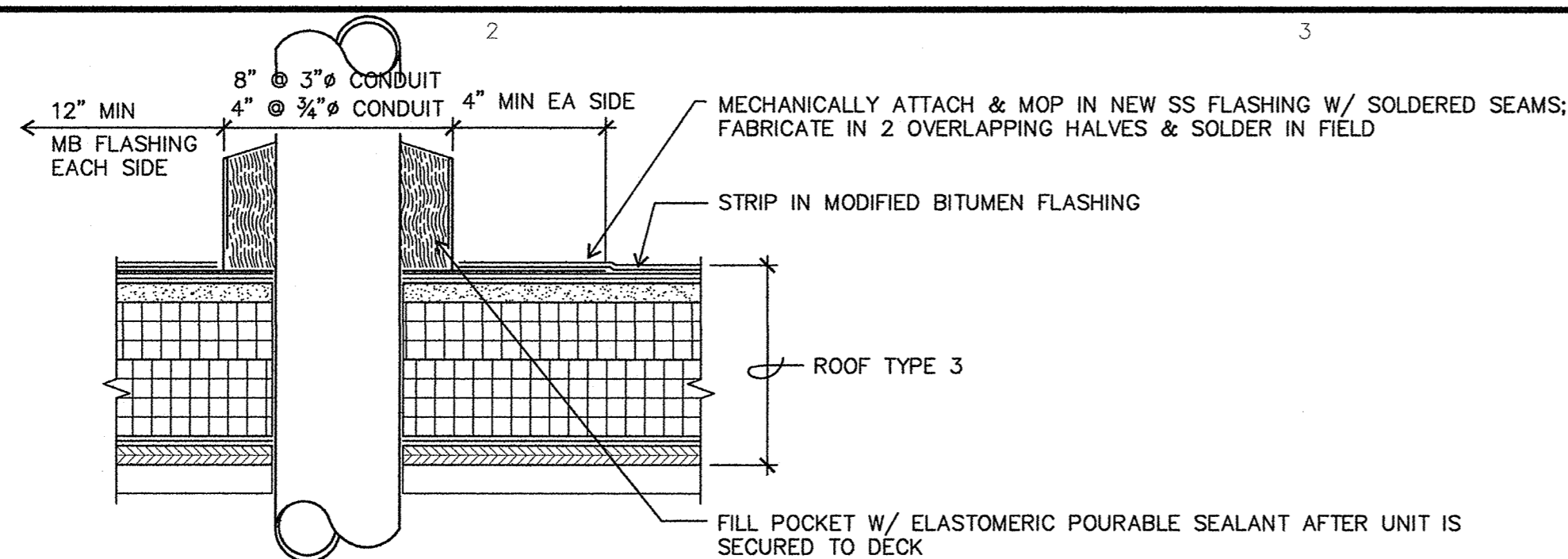
- GYMNASIUM (BASE BIDS B & C)
1. REMOVE EXISTING BUILT-UP ROOF MATERIAL DOWN TO DECK. USE HAND SPUDDING DEMOLITION ONLY; DO NOT USE MECHANICAL SPUDDING. DO NOT SAW CUT ROOF. PROTECT MATERIALS TO BE REUSED.
  2. REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS.
  3. PROVIDE NEW ROOF SHEATHING AND SEISMIC ANCHORS.
  4. INSTALL NEW COVER BOARD, SINGLE-PLY ROOF MEMBRANE, FLASHINGS, AND OTHER ITEMS AS DETAILED AND SPECIFIED.
  5. REINSTALL EQUIPMENT AND FLASHINGS SALVAGED FOR REUSE. PAINT NEW AND EXISTING ROOFTOP EQUIPMENT AND SHEET METAL EXCEPT PRE-FINISHED METAL.
  6. EXTEND CURBS, PLUMBING VENTS, AND OTHER ITEMS WHERE NECESSARY AS INDICATED IN DETAILS.
- LOWER ROOFS (ALTERNATE NO. 1)
1. REMOVE EXISTING BUILT-UP ROOF MATERIAL DOWN TO DECK. USE HAND SPUDDING DEMOLITION ONLY; DO NOT USE MECHANICAL SPUDDING. DO NOT SAW CUT ROOF. PROTECT MATERIALS TO BE REUSED.
  2. REMOVE AIR VENTS, ROOF VENTS AND OTHER EQUIPMENT AS REQUIRED TO EXTEND CURBS AND INSTALL FLASHINGS AS INDICATED ON DRAWINGS.
  3. EXTEND PLUMBING VENTS AND OTHER ITEMS WHERE NECESSARY AS INDICATED IN DETAILS.

**ROOF TYPES**

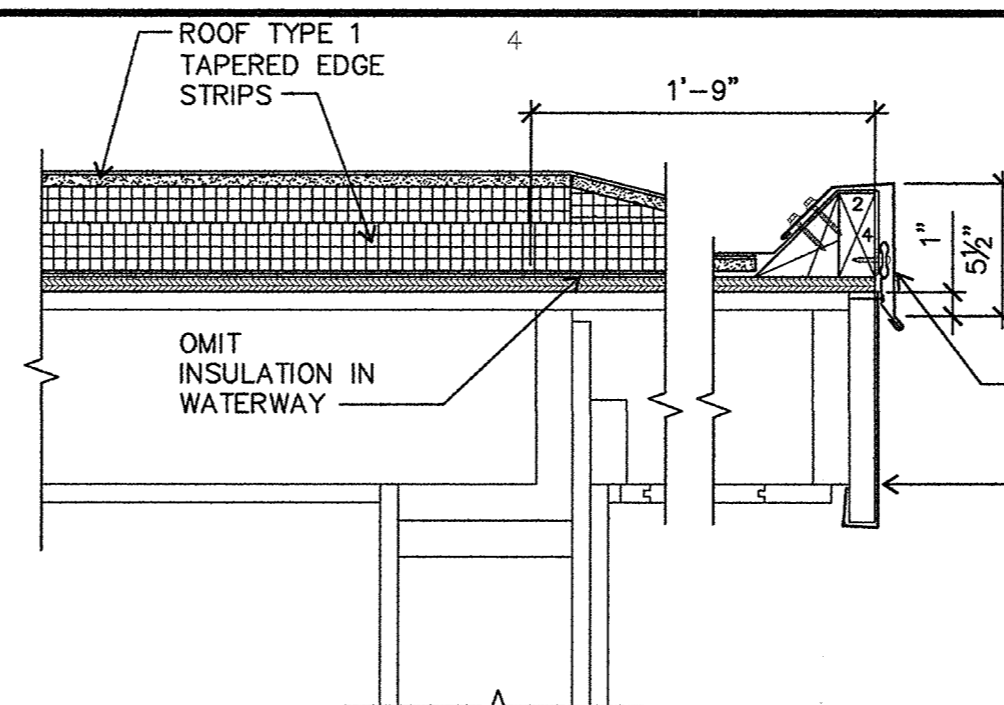
- ROOF ASSEMBLY TYPE 1**
- TPO MEMBRANE
  - COVER BOARD
  - ONE LAYER 1 1/2" THICK RIGID INSULATION
  - ONE LAYER 2" THICK RIGID INSULATION
  - VAPOR RETARDER
  - ROOF SHEATHING
  - (E) 3/4" DECKING
- ROOF ASSEMBLY TYPE 2 (ALTERNATE NO. 1)**
- BUR (MODIFIED SBS CAP SHEET & 4 PLIES)
  - ROOF SHEATHING
  - (E) 3/4" DECKING
- ROOF ASSEMBLY TYPE 3 (ALTERNATE NO. 1)**
- BUR (MODIFIED SBS CAP SHEET & 3 PLIES)
  - COVER BOARD
  - ONE LAYER 1 1/2" THICK RIGID INSULATION
  - ONE LAYER 2" THICK RIGID INSULATION
  - VAPOR RETARDER
  - ROOF SHEATHING
  - (E) 3/4" DECKING



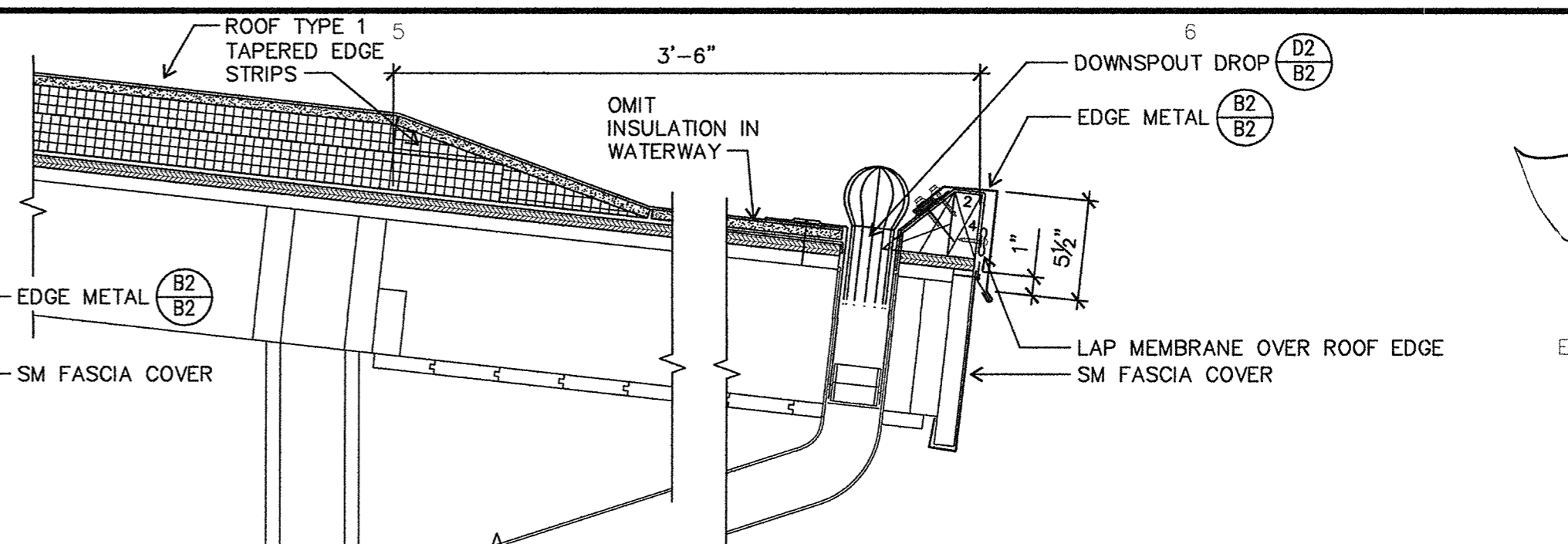
**A1 WILLARD SCHOOL ROOF PLAN**  
1/8" = 1'-0"



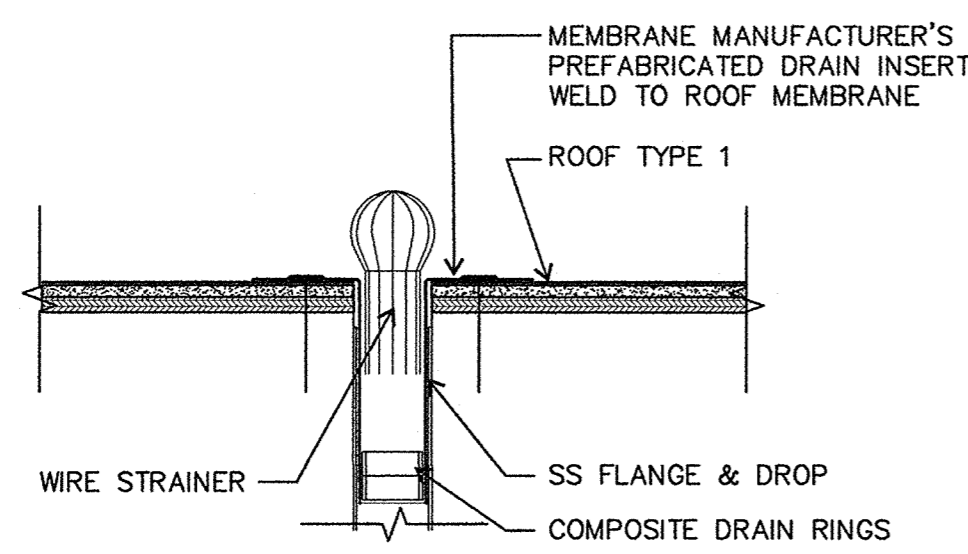
**E2** PITCH POCKET  
**B2** 3" = 1'-0"



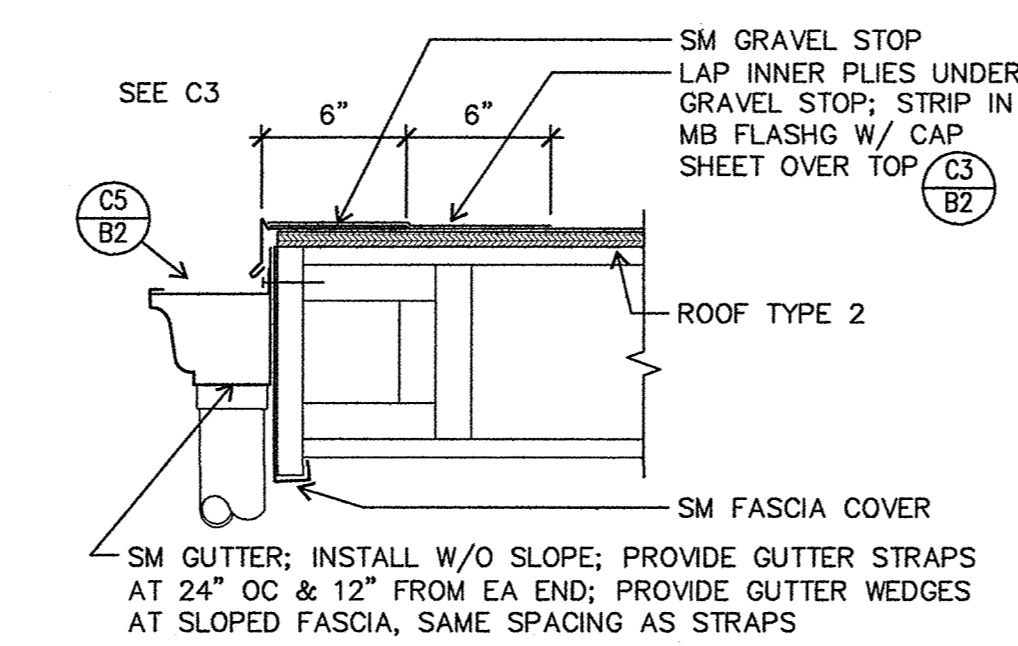
**E4** ROOF EDGE AT GABLE  
**B2** 1-1/2" = 1'-0"



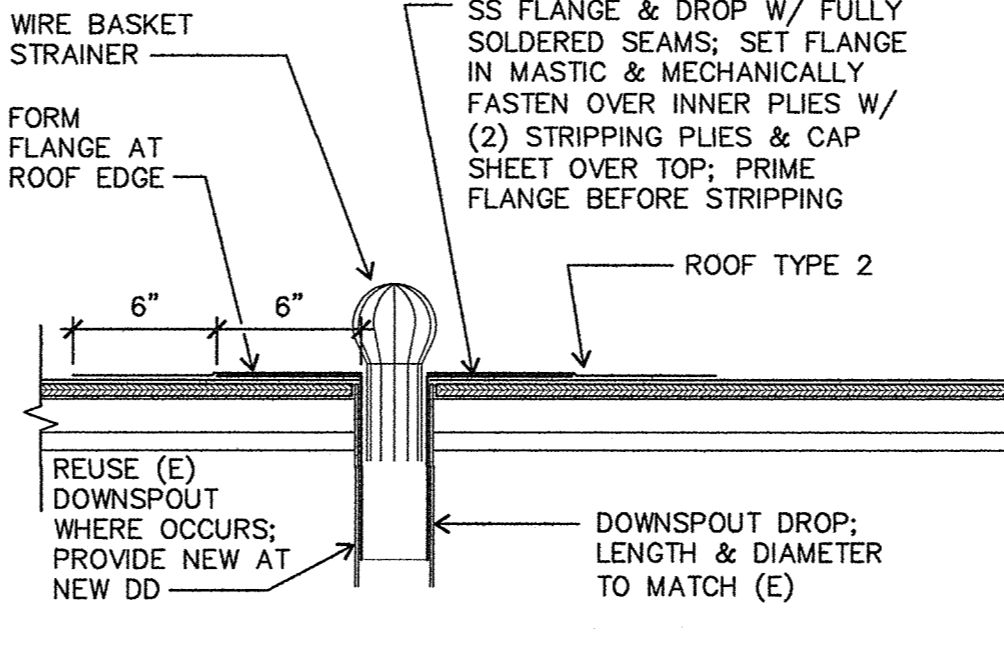
**E5** ROOF EDGE AT EAVE  
**B2** 1-1/2" = 1'-0"



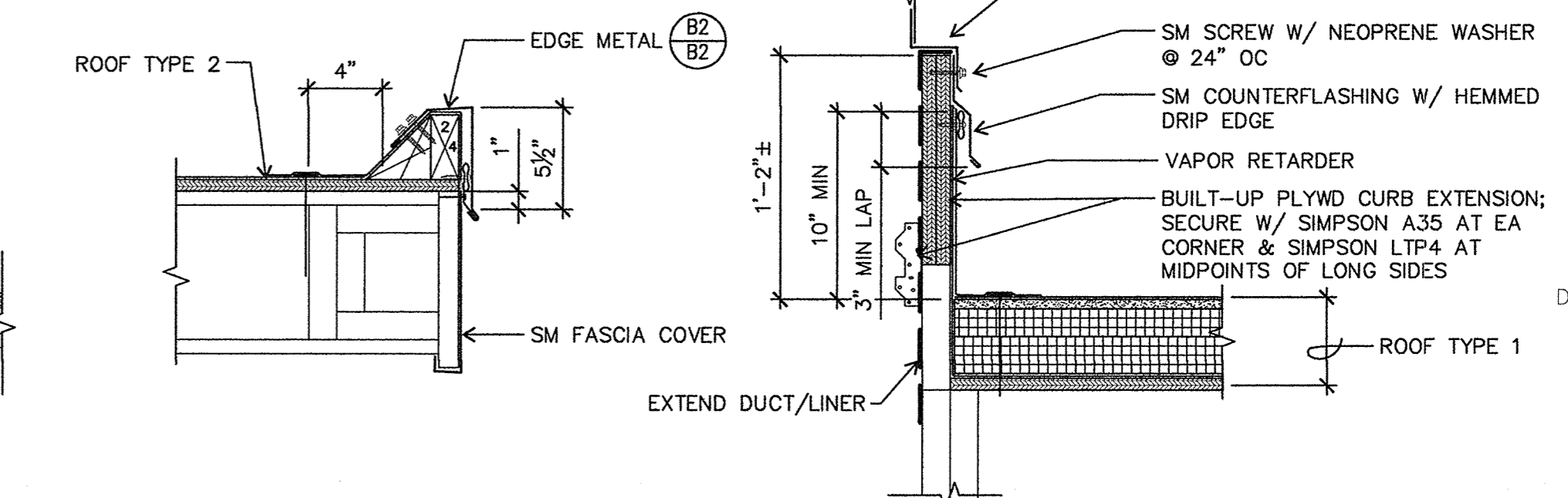
**D2** DOWNSPOUT DROP  
**B2** 1-1/2" = 1'-0"



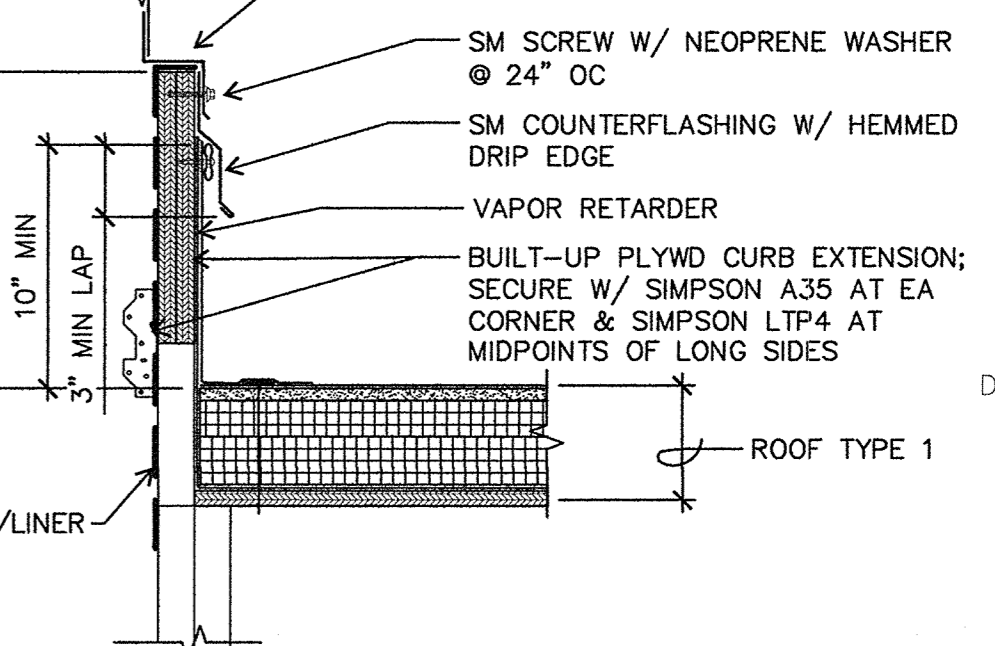
**D3** ROOF EDGE AT GUTTER  
**B2** 1-1/2" = 1'-0"



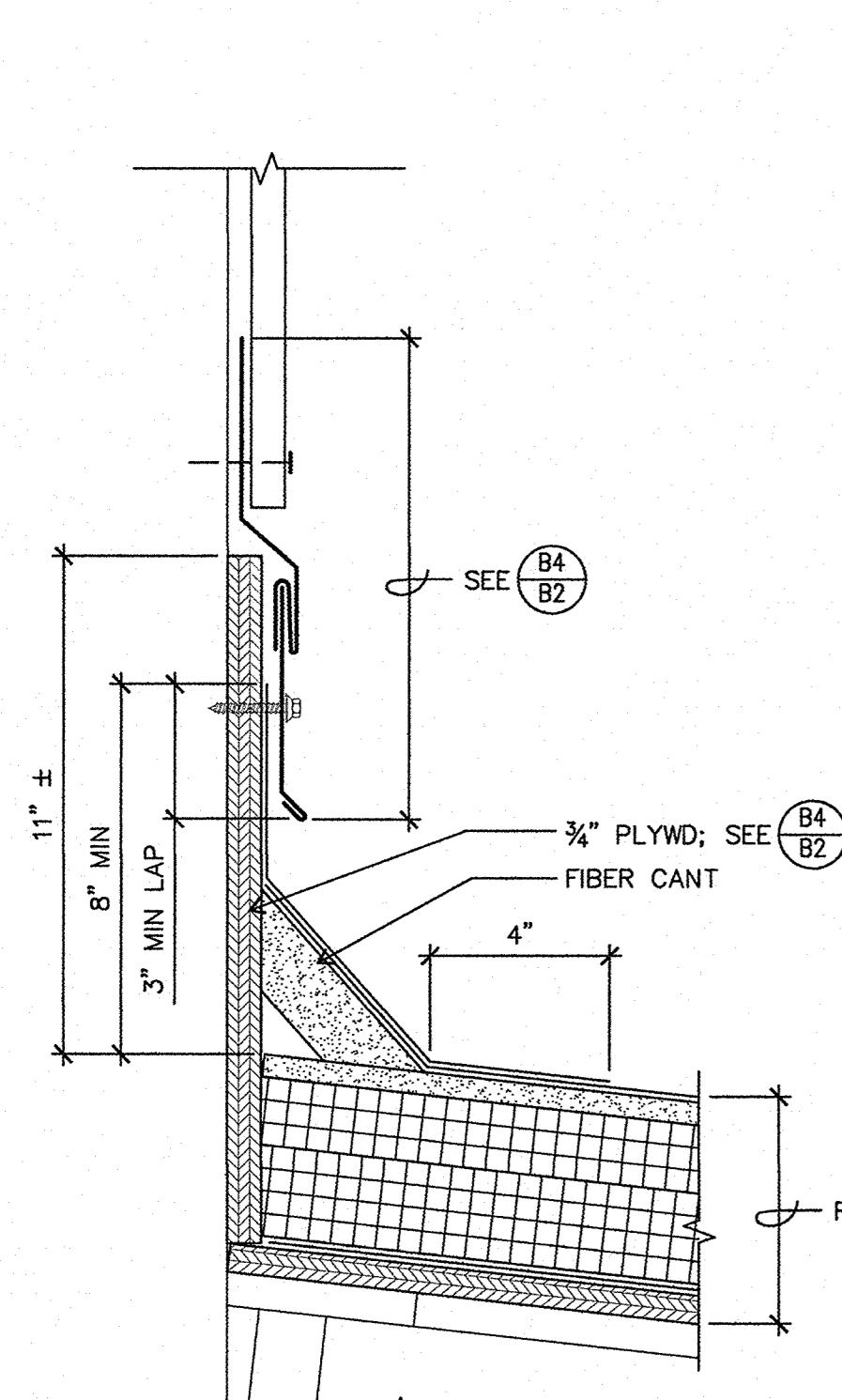
**D4** DOWNSPOUT DROP  
**B2** 1-1/2" = 1'-0"



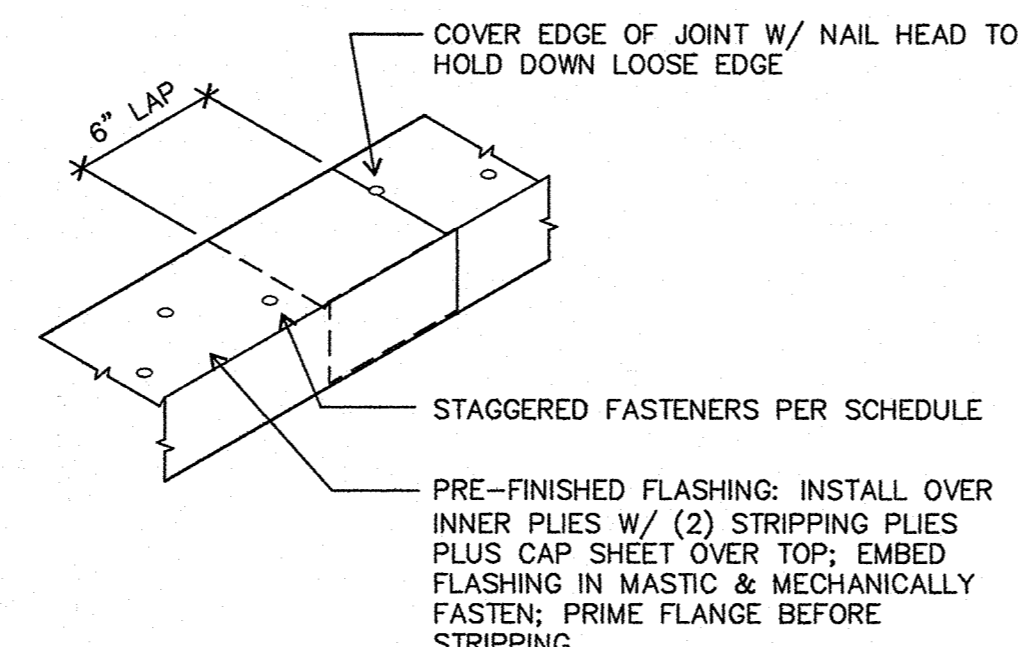
**D5** CANOPY ROOF EDGE  
**B2** 1-1/2" = 1'-0"



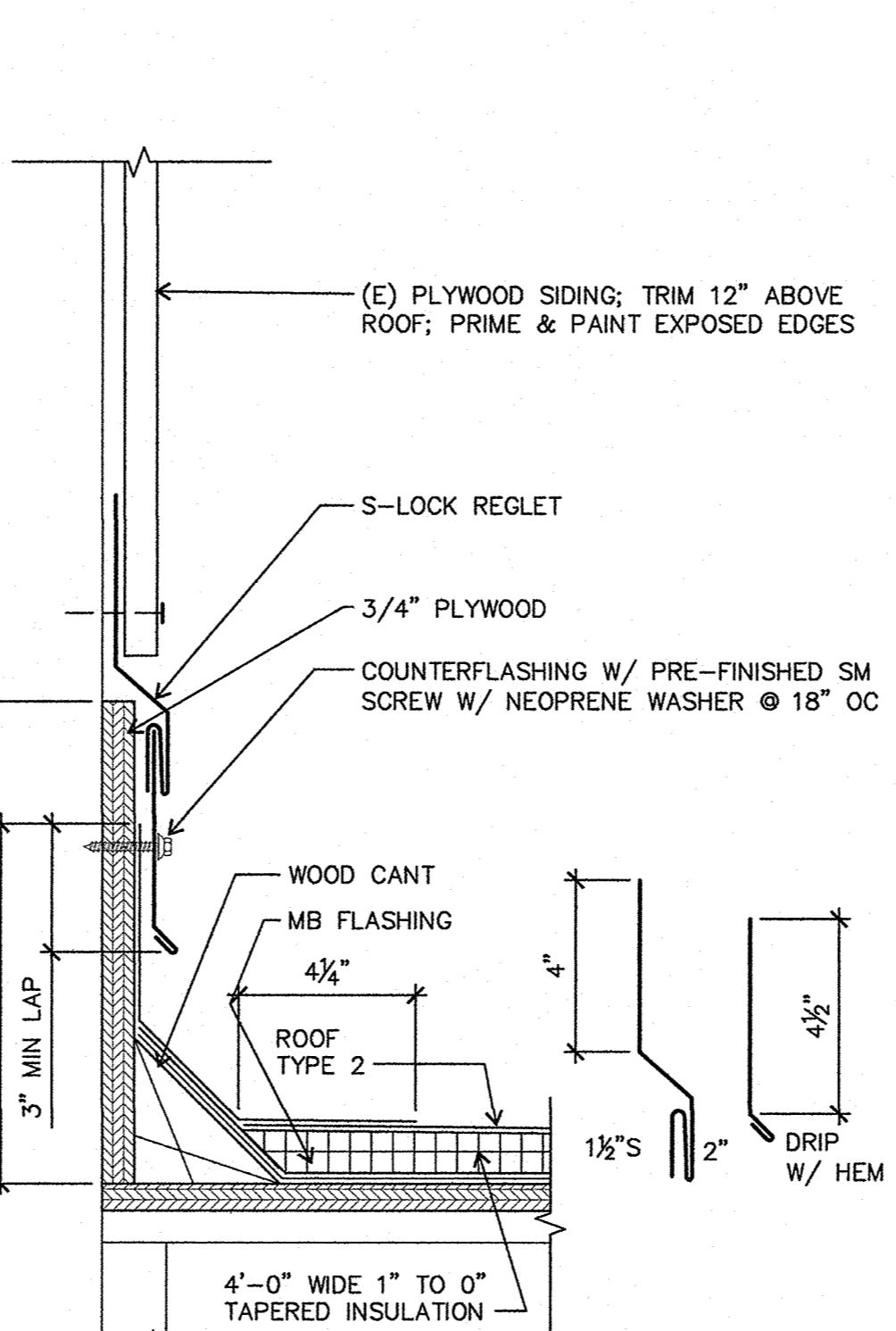
**D6** CURB EXTENSION  
**B2** 1-1/2" = 1'-0"



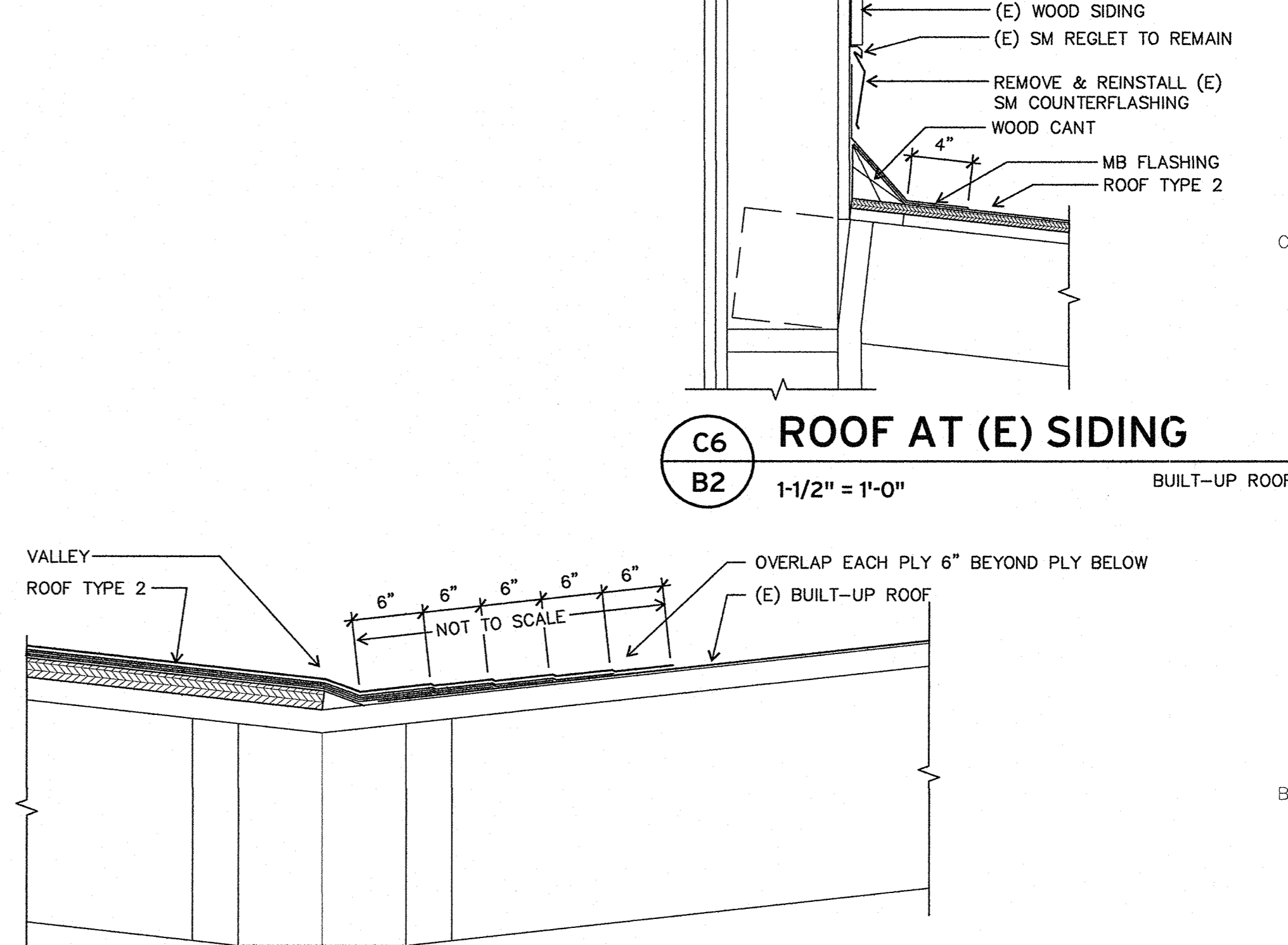
**B1** ROOF AT (E) SIDING  
**B2** 3" = 1'-0"



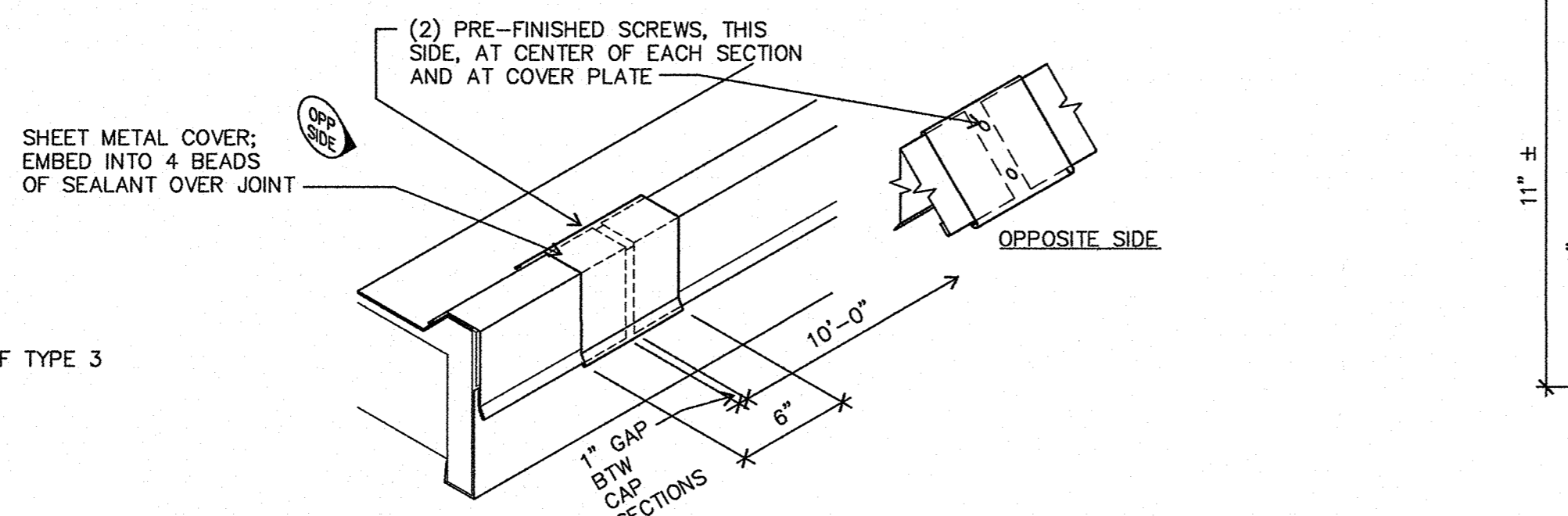
**C3** GRAVEL STOP  
**B2** 1-1/2" = 1'-0"



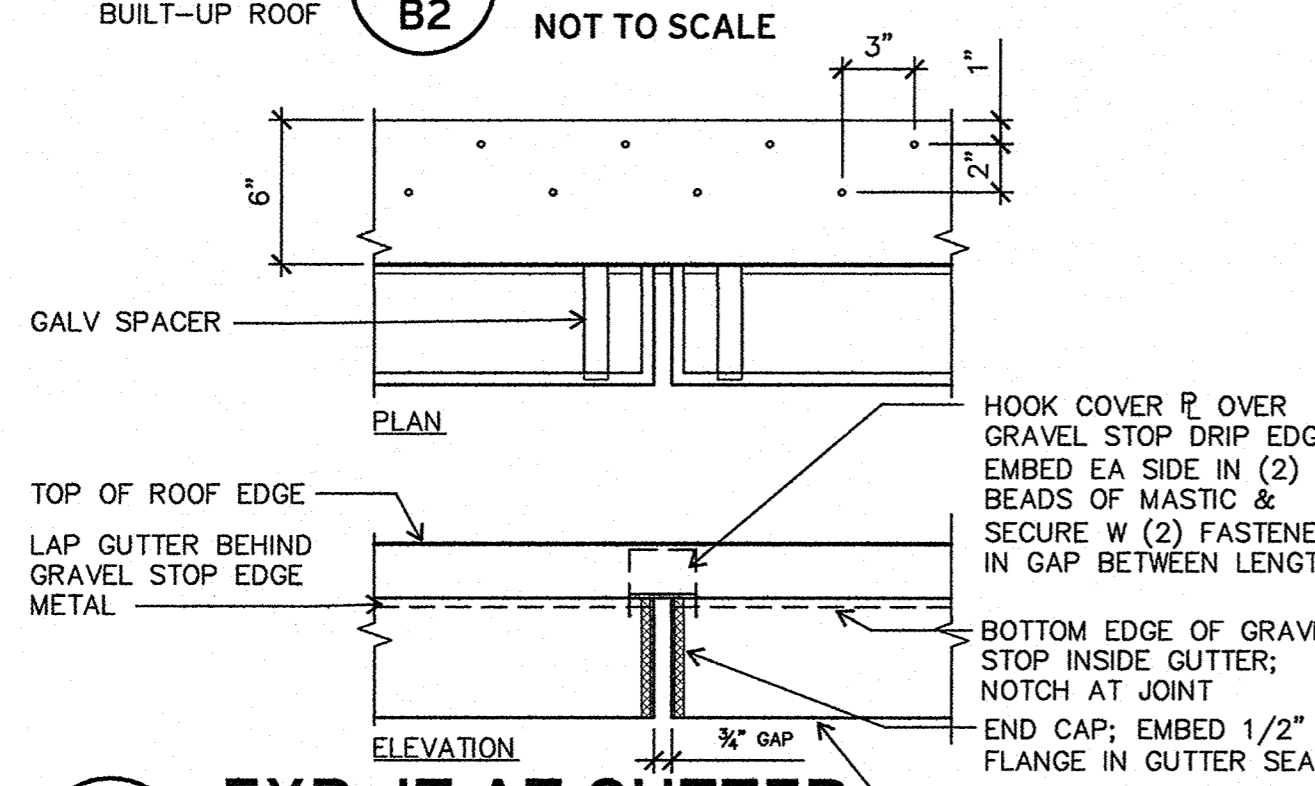
**B4** ROOF AT (E) SIDING  
**B2** 3" = 1'-0"



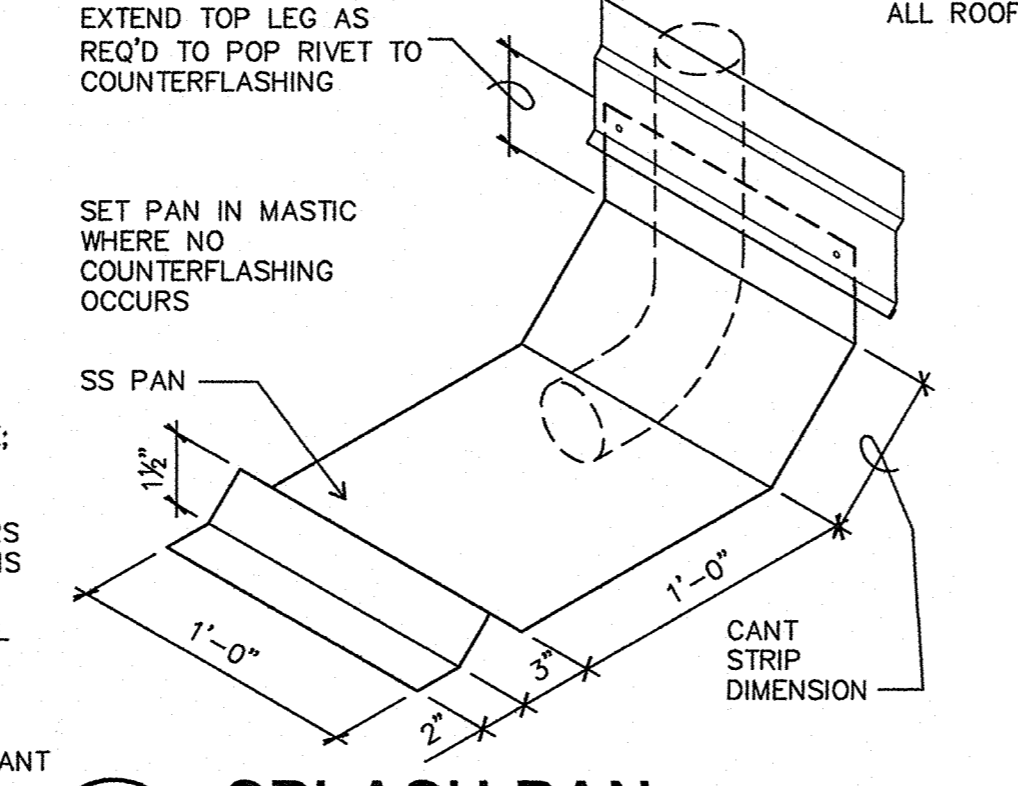
**B5** VALLEY & TIE-IN TO EXISTING BUR TO REMAIN  
**B2** 3" = 1'-0"



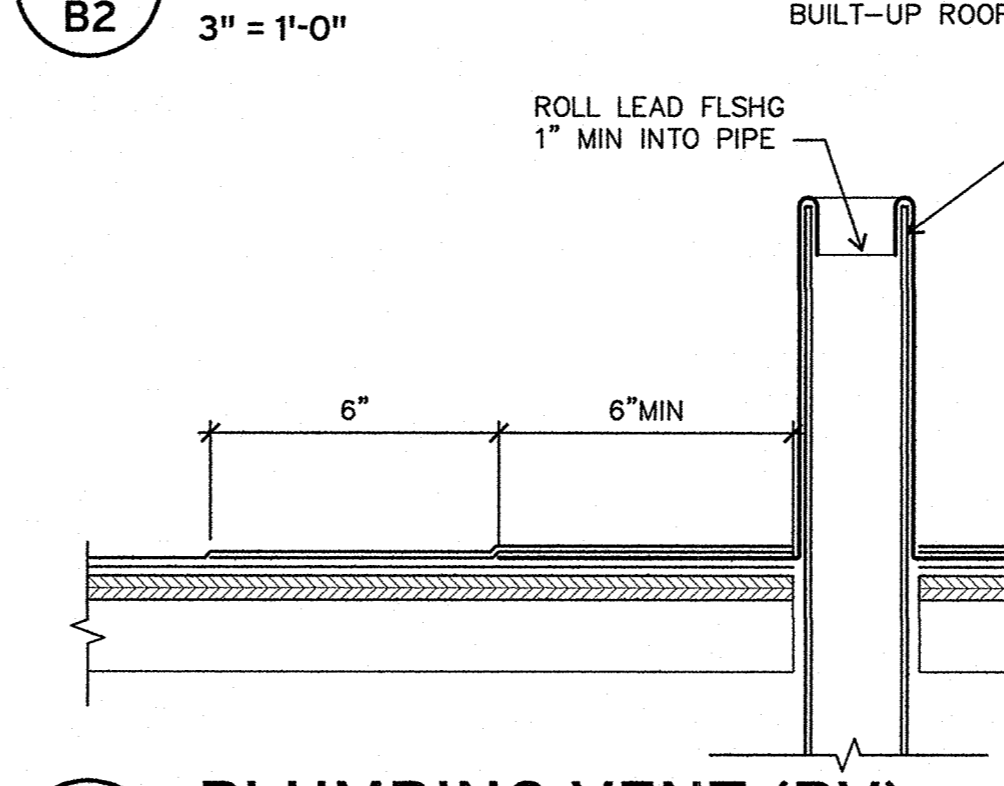
**B2** CAP METAL COVER PLATE  
**B2** NOT TO SCALE



**A2** EXP JT AT GUTTER  
**B2** 1-1/2" = 1'-0"

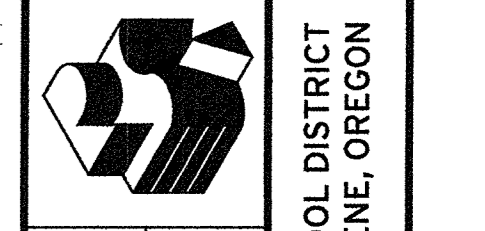
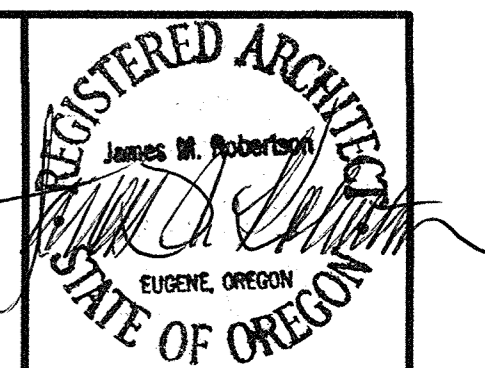


**A3** SPLASH PAN  
**B2** NOT TO SCALE



**A4** PLUMBING VENT (PV)  
**B2** 3" = 1'-0"

- GENERAL NOTES**
- SEE SHEET B1 FOR ROOF TYPE ASSEMBLIES.
  - PROVIDE PRE-FINISHED SHEET METAL FOR EXPOSED METAL FLASHING AND FASTENERS UNLESS OTHERWISE NOTED.
  - PROVIDE PRE-FINISHED FASTENERS TO MATCH COLOR OF SHEET METAL WHERE FASTENERS ARE EXPOSED.



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 MULTISITE ROOFING 2016 - C.I.P. # 420.780.209  
 Kelly Middle School and Willard School

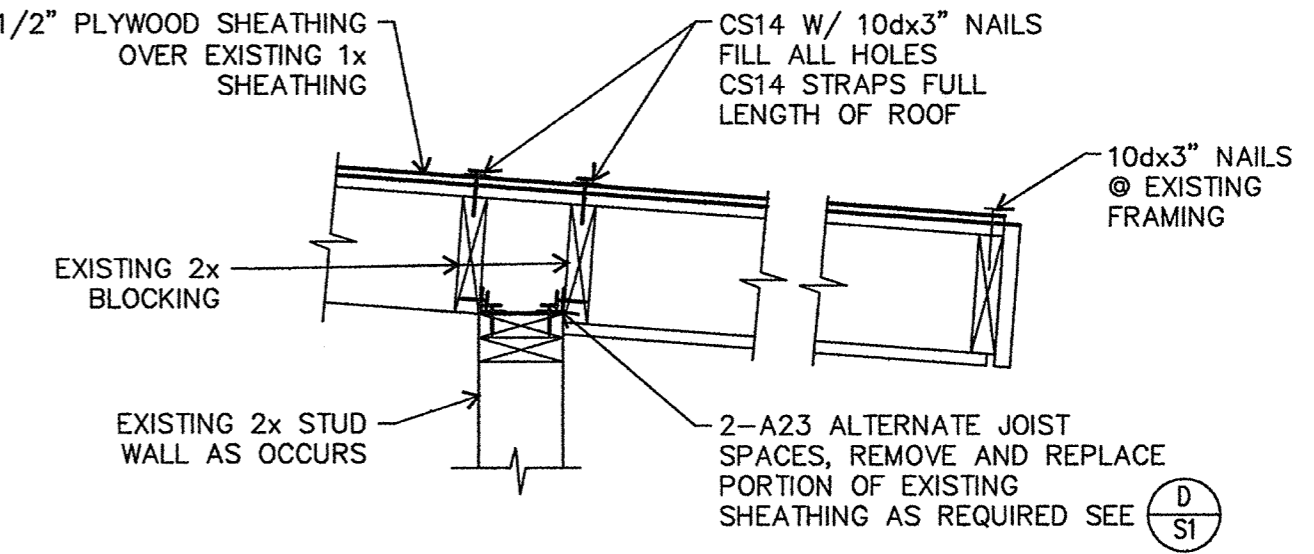
**WILLARD SCHOOL  
 ROOF DETAILS**

Drawn By: BDH  
 Checked: [Signature]  
 Date: 4/13/16  
 Project: 1607

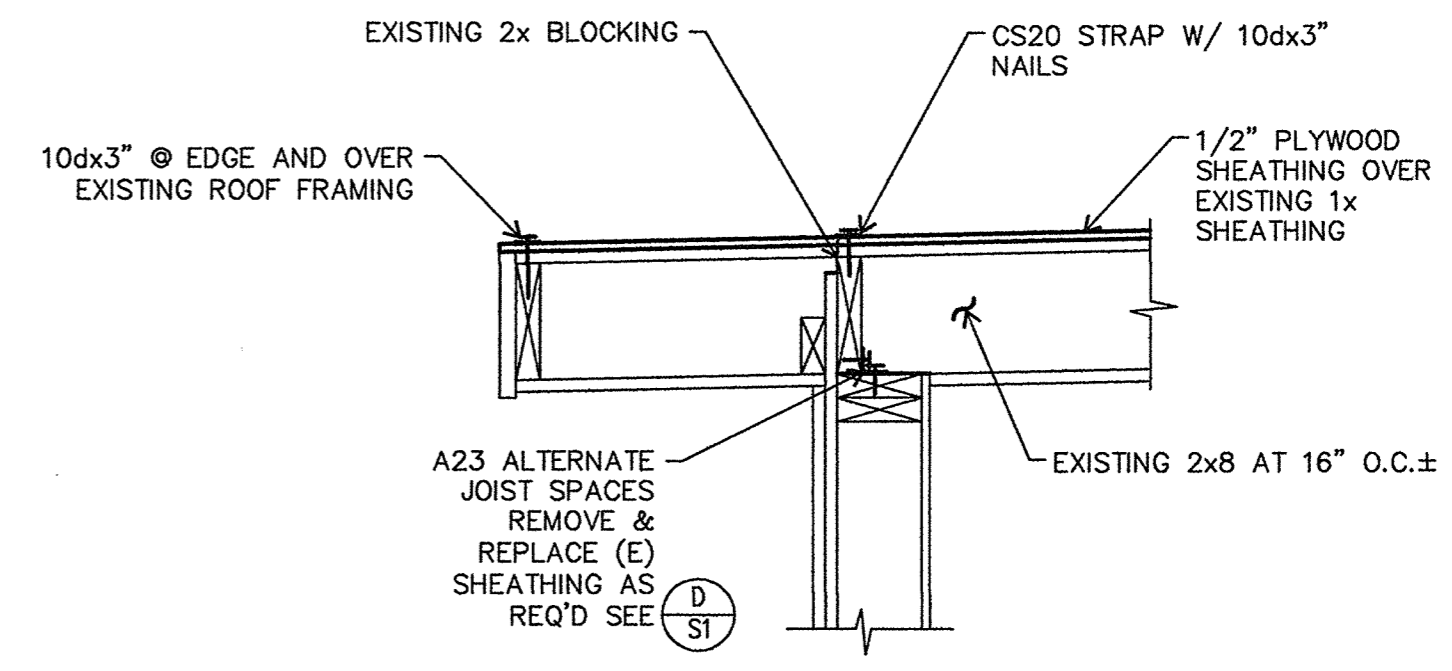
**B2**

**ROOF PLAN LEGEND**

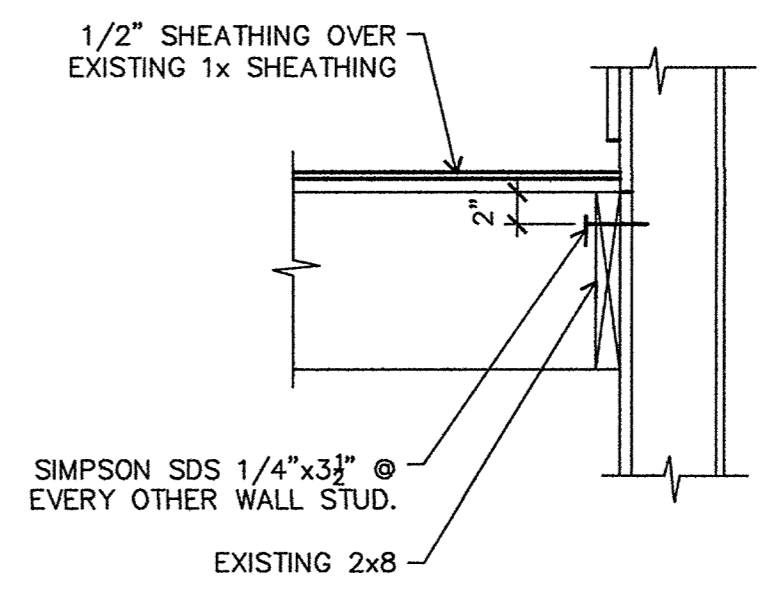
1/2" SHEATHING W/ 10d<sup>1/2</sup>" EACH OVER CANOPY ROOFS. NO NAILS EXPOSED BELOW (ALTERNATE No. 1)



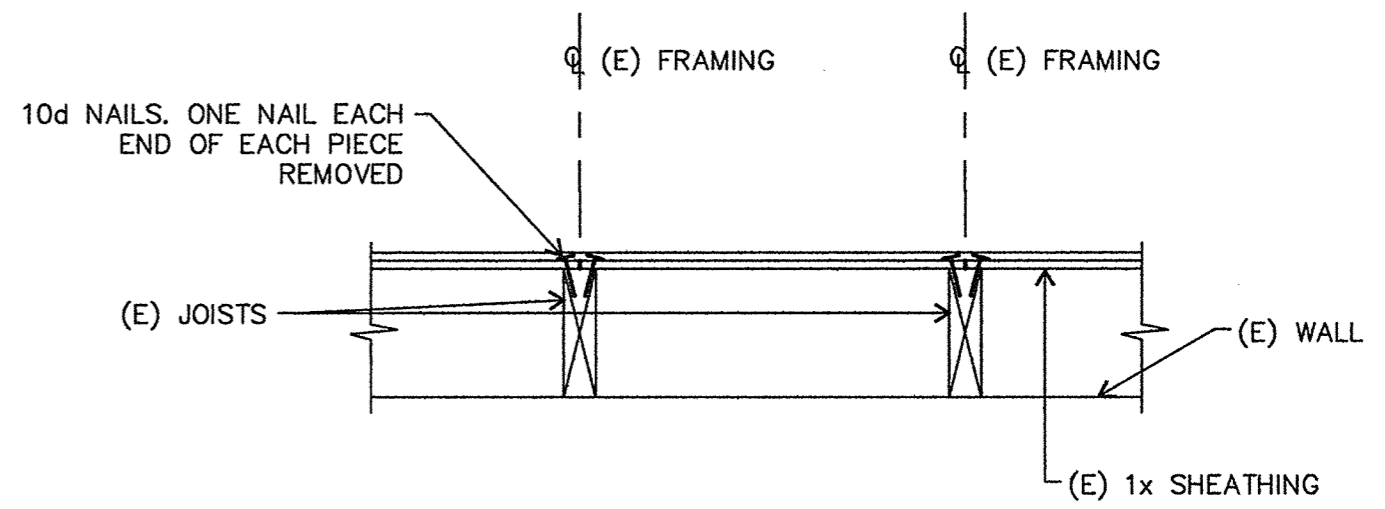
**A GYMNASIUM WALL ATTACHMENT**  
S1 1" = 1'-0"



**B UPPER ROOF CONNECTION UPGRADES**  
S1 1" = 1'-0"

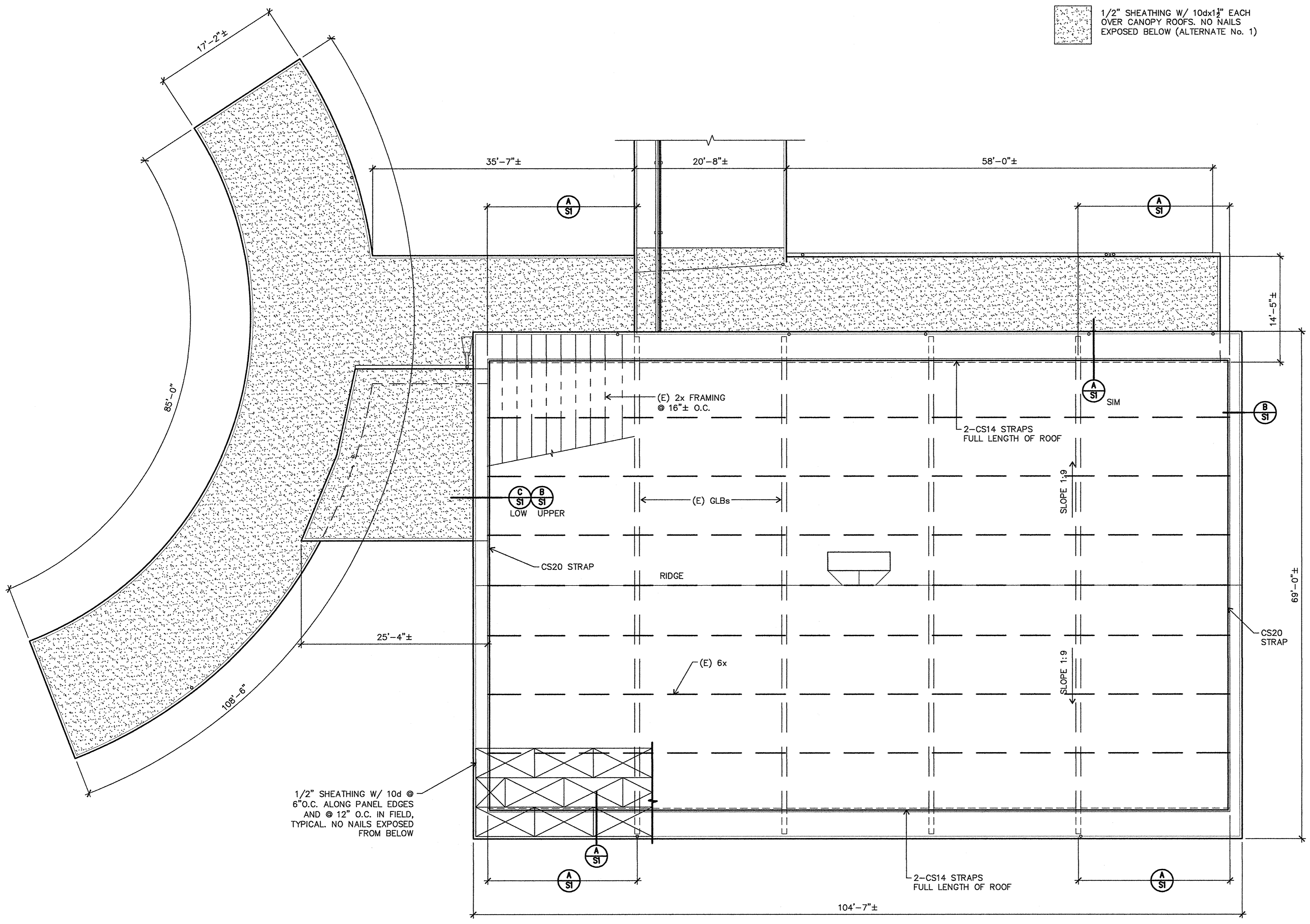


**C LOW ROOF CONNECTION UPGRADES**  
S1 1" = 1'-0" (ALTERNATE NO. 1)

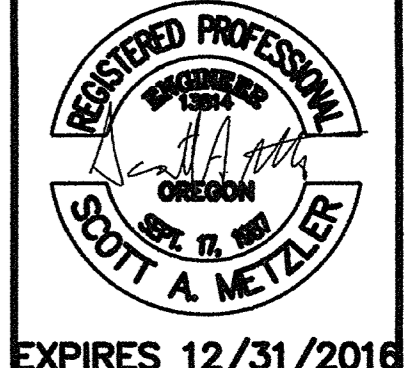


- NOTES:
- CUT (E) SHEATHING @ C OF (E) ROOF JOISTS.
  - REMOVE (E) SHEATHING AND PERFORM WORK BELOW.
  - REPLACE (E) SHEATHING IF UNDAMAGED. IF DAMAGED, REPLACE W/ 3/4" PLYWOOD.
  - NAIL (E) & REPLACED SHEATHING INTO PLACE. NAILS MAYBE BE ANGLED TOWARDS CENTER OF JOISTS AS REQ'D

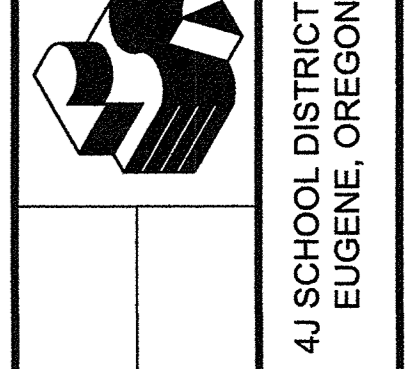
**D EXISTING SHEATHING REMOVE & REPLACE DETAIL**  
S1 N.T.S.



**1 WILLARD SCHOOL ROOF PLAN**  
S1 1/8" = 1'-0"



EXPIRES 12/31/2016



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**WILLARD SCHOOL ROOF PLAN**

Drawn By	KDD
Checked	
Date	4/13/16
Project	1607

**S1**