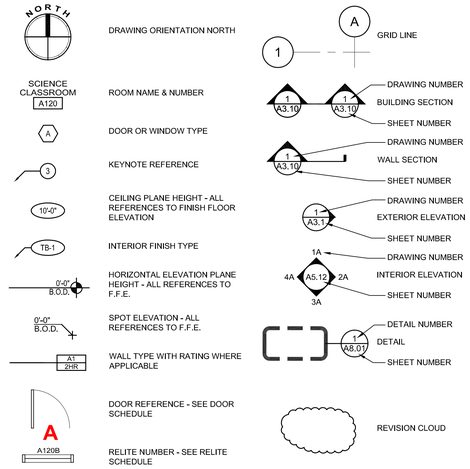
WEST TUALATIN VIEW ELEMENTARY SCHOOL REROOF

Beaverton School District

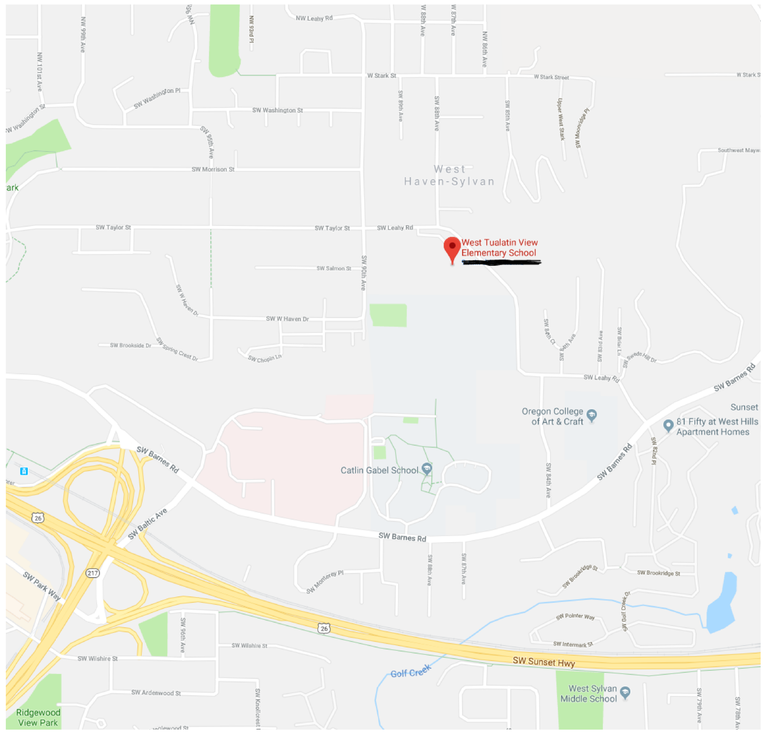
16550 SW Merlo Road Beaverton, Oregon 97003

CONTENTS

ARCHITECTURAL SYMBOLS



VICINITY MAP



ARCHITECTURAL ABBREVIATIONS

∠	ANGLE	FDN	FOUNDATION	O.D.	OVERFLOW DRAIN
&	AND	FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	OH	OVERHEAD
ACT	ACOUSTICAL CEILING TILE	FF	FINISH FLOOR	OPNG	OPENING
ADD	ADDENDUM	FFE	FINISH FLOOR ELEVATION	OPP	OPPOSITE
A.F.F.	ABOVE FINISH FLOOR	FIN	FINISH	OS	OUTSIDE
AHJ	AUTHORITY HAVING JURISDICTION	FL	FLOOR	PIP	POURED IN PLACE
ALS	AREA LIGHT STANDARD	FO	FACE OF	PL	PROPERTY LINE
ALUM	ALUMINUM	FOC	FACE OF CONCRETE	PLAS	PLASTER
ANOD	ANODIZED	FOF	FACE OF FINISH	PLYWD	PLYWOOD
BC	BOTTOM OF CURB	FOM	FACE OF MASONRY	PSF	PER SQUARE FOOT
BD	BOARD	FOS	FACE OF STUD	P.T.	PRESSURE TREATED
BLDG	BUILDING	FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PVMT	PAVEMENT
BLKG	BLOCKING				RADIUS
B.M.	BENCH MARK	FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	R.D.	ROOF DRAIN
BM	BEAM			REF	REFERENCE
BOT	BOTTOM	FRT	FIRE RETARDANT TREATED	REFR	REFRIGERATOR
BTU	BRITISH THERMAL UNIT	FTG	FOOTING	REQ'D	REQUIRED
BTWN	BETWEEN	FURR	FURRING	REV	REVISE OR REVISION
C OR C	CHANNEL	GA	GAUGE	RM	ROOM
CB	CATCH BASIN	GALV	GALVANIZED	R.O.	ROUGH OPENING
CCTV	CLOSED CIRCUIT TV	GB	GRAB BAR	RCP	REFLECTED CEILING PLAN
CG	CORNER GUARD	GC	GENERAL CONTRACTOR	SC	SOLID CORE
CLG	CEILING	GL	GLASS	SECT	SECTION
CLR	CLEAR	GND	GROUND	SF	SQUARE FOOT
CJ	CONTROL JOINT	GVP	GYPSUM VENEER PLASTER	SHTG	SHEATHING
CMU	CONCRETE MASONRY UNIT	GWB	GYPSUM WALL BOARD	SHWR	SHOWER
CONT	CONTINUOUS	HB	HOSE BIB	SHT	SHEET
CORR	CORRIDOR	HC	HANDICAP	SIM	SIMILAR
CS J	CONSTRUCTION JOINT	HDWR	HARDWARE	SJ	SEISMIC JOINT
CSMT	CASEMENT	HM	HOLLOW METAL	SM	SHEET METAL
CT	CERAMIC TILE	HW	HOT WATER	SPEC	SPECIFICATION
CTR	CENTER	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SQ	SQUARE
℄	CENTERLINE			SS	STAINLESS STEEL
DBL	DOUBLE	INSUL	INSULATION	STD	STANDARD
DTL	DETAIL	INT	INTERIOR	STL	STEEL
DF	DRINKING FOUNTAIN	JAN	JANITOR	STOR	STORAGE
DIA	DIAMETER	JT	JOINT	STRUCT	STRUCTURAL
DIAG	DIAGONAL	JST	JOIST	SUSP	SUSPENDED
DIM	DIMENSION	L	LENGTH	T	TEMPERED GLAZING
DISP	DISPENSER	LAV	LAVATORY	TC	TOP OF CURB
DN	DOWN	LB	LAG BOLT	TEL	TELEPHONE
DP	DAMPROOFING	LKR	LOCKER	T&G	TONGUE AND GROOVE
DR	DOOR	LS	LANDSCAPING	THK	THICK
DS	DOWN SPOUT	LVR	LOUVER	TJ	TOOL JOINT
DWG	DRAWING	MAT'L	MATERIAL	TP	TOP OF PAVEMENT
EA	EACH	MAX	MAXIMUM	TS	TUBE STEEL
EF	EXHAUST FAN	MECH	MECHANICAL	TYP	TYPICAL
EJ	EXPANSION JOINT	MED	MEDIUM	TOD	TOP OF (MATERIAL)
EL	ELEVATION	MEZZ	MEZZANINE	UNFIN	UNFINISHED
ELEC	ELECTRICAL	MFR	MANUFACTURER	UNO	UNLESS NOTED OTHERWISE
E.O.S.	EDGE OF SLAB	MH	MANHOLE	VB	VAPOR BARRIER
ENGR	ENGINEER	MIN	MINIMUM	VERT	VERTICAL
EP	ELECTRICAL PANEL	MIR	MIRROR	VEST	VESTIBULE
EQ	EQUAL	MISC	MISCELLANEOUS	VFY	VERIFY
EQUIP	EQUIPMENT	MTD	MOUNTED	W/	WITH
ES	EACH SIDE	MTL	METAL	WC	WATER CLOSET
EW	EACH WAY	NA	NOT APPLICABLE	WD	WOOD
EXST	EXISTING	NIC	NOT IN CONTRACT	WF	WIDE FLANGE
(E)	EXISTING	NOM	NOMINAL	WG	WIRE GLASS
EXP	EXPANSION	NS	NELSON STUD	WH	WATER HEATER
EXT	EXTERIOR	NTS	NOT TO SCALE	W/O	WITHOUT
FA	FIRE ALARM	OA	OVERALL	WP	WATERPROOFING
FBO	FURNISHED BY OTHERS	OC	ON CENTER	WRB	WATER RESISTIVE BARRIER
FD	FLOOR DRAIN			WT	WEIGHT

SCHOOL ADDRESS

West Tualatin View Elementary School
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Phone: (503) 356-2510
AHJ: Washington County
Tax Lot #: 1S102AD00600

DEFERRED SUBMITTAL

FALL PROTECTION

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BID DOCUMENTS

WEST TUALATIN VIEW ELEMENTARY SCHOOL REROOF
Project # 119190
December 22, 2018
BID DOCUMENTS

CODE REVIEW NOTES:

1. THIS CODE REVIEW IS BASED ON THE 2014 O.S.S.C.
2. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES REROOFING AND SEISMIC UPGRADE OF ROOF DECK.
3. THE ESTIMATED VALUE OF WORK FOR THIS PROJECT IS $XXX,XXX.

LEGEND:

EXISTING 2-HOUR FIREWALL

ALLOWABLE AREA ANALYSIS:

BUILDING 1

SUMMARY:
'BUILDING 1' IS SINGLE-STORY COMBUSTIBLE CONSTRUCTION WITH PARTIAL OPEN FRONTAGE AND AN AUTOMATIC SPRINKLER SYSTEM

USE & OCCUPANCY:
EDUCATIONAL GROUP E
CONSISTING OF CLASSROOMS, OFFICES, CAFETERIA, COVERED DRIVE

CONSTRUCTION TYPE:
TYPE V-B PER TABLE 503

ALLOWABLE HEIGHT:
40' (PER TABLE 503)

ALLOWABLE NUMBER OF STORIES:
1 STORY (PER TABLE 503) + 1 STORY FOR SPRINKLERS

ALLOWABLE AREA:
9,500 SF PER TABLE 503

AREA MODIFICATION: (PER SECTION 506)

$I_f = \left[\frac{F}{P} - 0.25\right]\frac{W}{30} = \left[\frac{776'}{871'} - 0.25\right]\frac{30}{30} = 0.64$

$I_s = 2$ (PER 506.3)

$A_a = A_1 + \left[A_1 \times I_f\right] + \left[A_1 \times I_s\right]$

$A_a = 9{,}500 + \left[(9{,}500)\,(0.64)\right] + \left[(9{,}500)\,(2)\right]$

$A_a = 9{,}500 + 6{,}080 + 19{,}000 = 34{,}580$ SF

TOTAL ALLOWABLE AREA PER FLOOR: 34,580 SF

TOTAL ACTUAL AREA: 26,616 SF < 34,580 SF = OK
(ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 1 AREA IS OK)

BUILDING 2

SUMMARY:
'BUILDING 2' IS SINGLE STORY COMBUSTIBLE CONSTRUCTION WITH PARTIAL OPEN FRONTAGE. IT DOES NOT HAVE AN AUTOMATIC SPRINKLER SYSTEM

USE & OCCUPANCY:
EDUCATIONAL GROUP E
CONSISTING OF GYMNASIUM

CONSTRUCTION TYPE:
TYPE V-B PER TABLE 503

ALLOWABLE HEIGHT:
40' (PER TABLE 503)

ALLOWABLE NUMBER OF STORIES:
1 STORY (PER TABLE 503)

ALLOWABLE AREA:
9,500 SF PER TABLE 503

AREA MODIFICATION: (PER SECTION 506)

$I_f = \left[\frac{F}{P} - 0.25\right]\frac{W}{30} = \left[\frac{258'}{320'} - 0.25\right]\frac{30}{30} = 0.56$

$A_a = A_1 + \left[A_1 \times I_f\right]$

$A_a = 9{,}500 + \left[(9{,}500)\,(0.56)\right]$

$A_a = 9{,}500 + 5{,}320 = 14{,}820$ SF

TOTAL ALLOWABLE AREA PER FLOOR: 14,820 SF

TOTAL ACTUAL AREA: 5,595 SF < 14,820 SF = OK
(ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 2 AREA IS OK)

BUILDING 3

SUMMARY:
'BUILDING 3' IS SINGLE-STORY COMBUSTIBLE CONSTRUCTION WITH PARTIAL OPEN FRONTAGE. IT DOES NOT HAVE AN AUTOMATIC SPRINKLER SYSTEM

USE & OCCUPANCY:
EDUCATIONAL GROUP E
CONSISTING OF CLASSROOMS AND A COVERED PLAY AREA

CONSTRUCTION TYPE:
TYPE V-B PER TABLE 503

ALLOWABLE HEIGHT:
40' (PER TABLE 503)

ALLOWABLE NUMBER OF STORIES:
1 STORY (PER TABLE 503)

ALLOWABLE AREA:
9,500 SF PER TABLE 503

AREA MODIFICATION: (PER SECTION 506)

$I_f = \left[\frac{F}{P} - 0.25\right]\frac{W}{30} = \left[\frac{255'}{312'} - 0.25\right]\frac{30}{30} = 0.57$

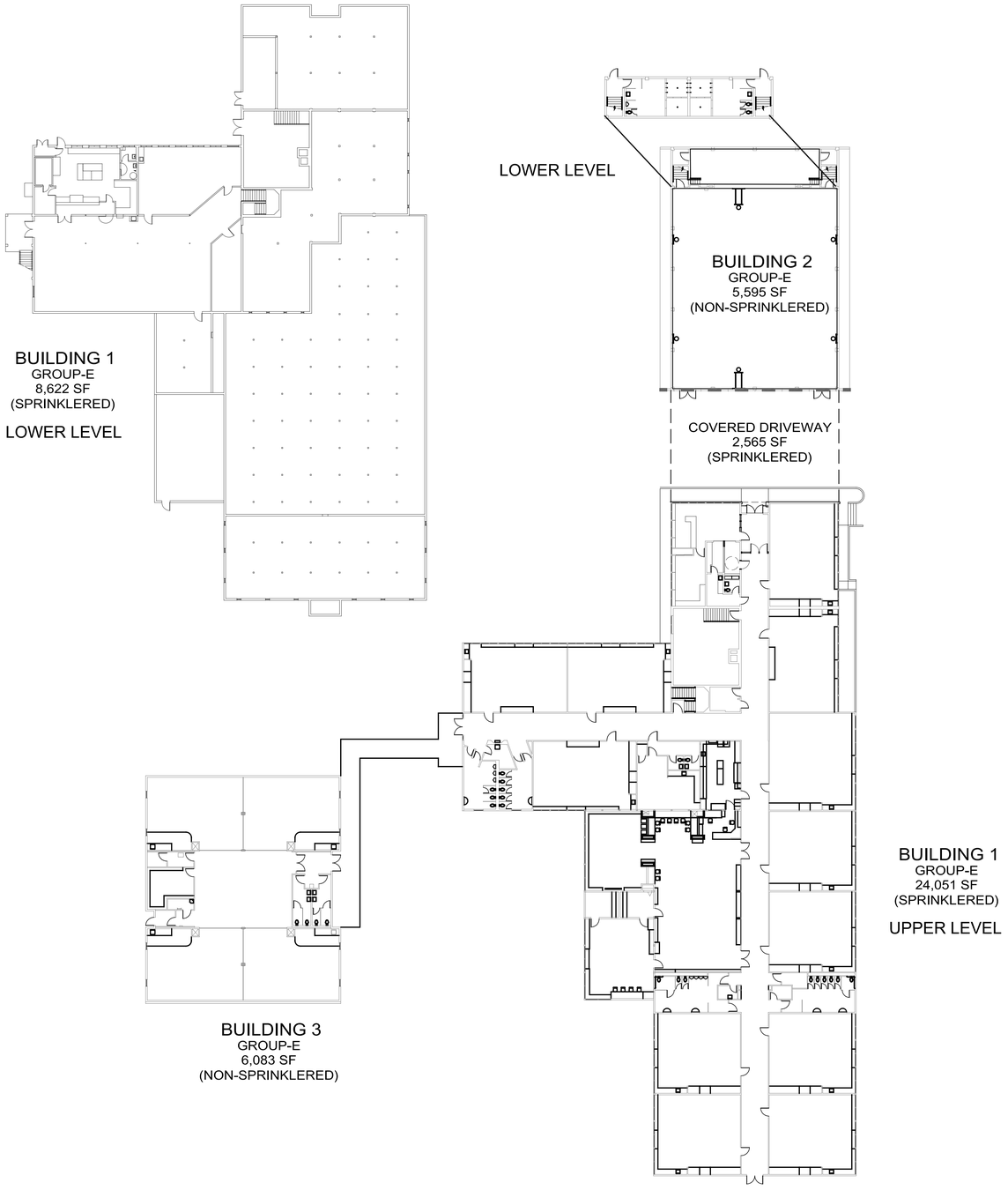
$A_a = A_1 + \left[A_1 \times I_f\right]$

$A_a = 9{,}500 + \left[(9{,}500)\,(0.57)\right]$

$A_a = 9{,}500 + 5{,}415 = 14{,}915$ SF

TOTAL ALLOWABLE AREA PER FLOOR: 14,915 SF

TOTAL ACTUAL AREA: 6,083 SF < 14,915 SF = OK
(ACTUAL IS LESS THAN ALLOWABLE. THEREFORE, BUILDING 3 AREA IS OK)



CODE REVIEW PLAN 1
SCALE: 1"=20'-0"

NORTH

Dull Olson Weekes - IBI Group Architects, Inc.

907 SW Stark Street Portland OR 97205 USA
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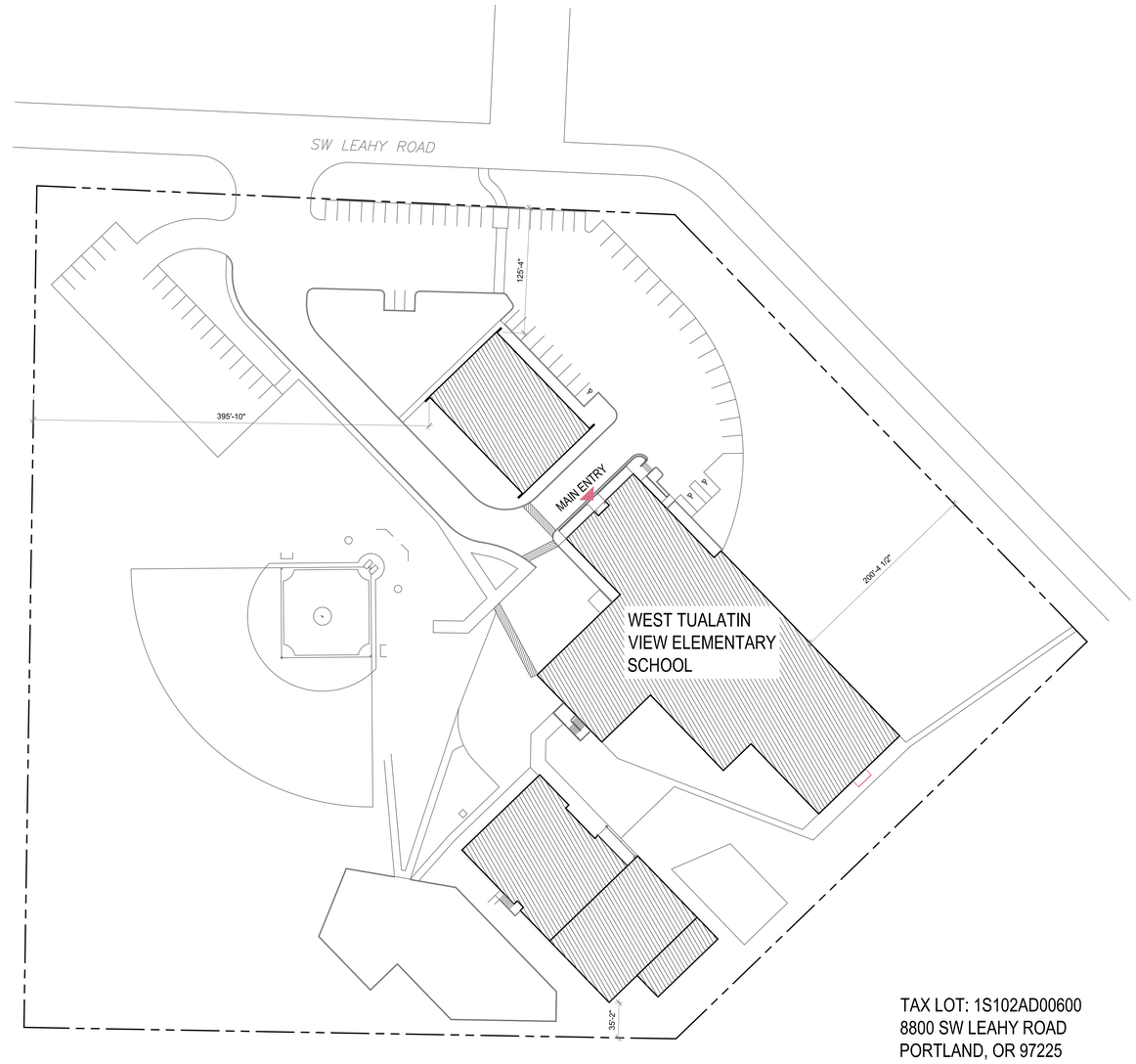
t: (503) 591-8000

REGISTERED ARCHITECT
4346
JAMES M. FITZPATRICK
PORTLAND, OREGON
STATE OF OREGON
Digitally signed by James M. Fitzpatrick
Date: 2019.02.22 17:05:51 -08'00'

phase	Bid Documents
date	February 22, 2019
revisions	
project #	119190

Code Review

G1101



TAX LOT: 1S102AD00600
8800 SW LEAHY ROAD
PORTLAND, OR 97225

WEST TUALATIN VIEW ELEMENTARY SCHOOL - SITE PLAN

SCALE: 1"=60'-0"

NORTH

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REGISTERED ARCHITECT
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JAMES M. FITZPATRICK
PORTLAND, OREGON
STATE OF OREGON
Digitally signed by James M. Fitzpatrick
Date: 2019.02.22 09:23:08 PST

phase	Bid Documents
date	February 22, 2019
revisions	

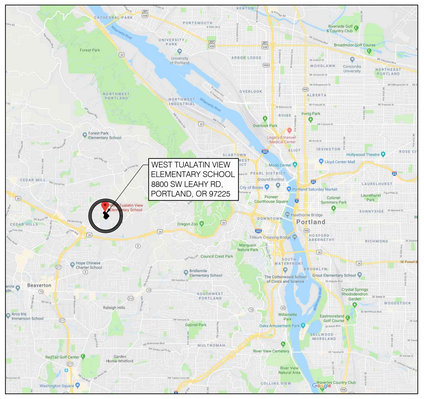
project # 119190

Site Plan
Washington County

G1102

BEAVERTON SCHOOL DISTRICT
WEST TUALATIN VIEW ELEMENTARY SCHOOL

SITE MAPS



1 GI-1 LOCATION MAP
SCALE: NTS

2 GI-1 VICINITY MAP
SCALE: NTS

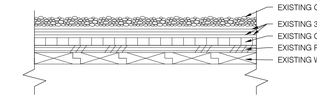
3 GI-1 CAMPUS PLAN
SCALE: NTS

DRAWING SCHEDULE

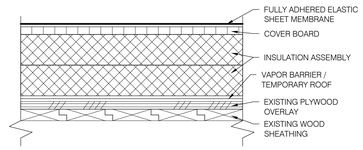
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE PROJECT, INCLUDING VERIFICATION OF EXISTING ROOF SYSTEM CONSTRUCTION AND MATERIALS.
2. CONTRACTOR STAGING AND STORAGE AREAS SHALL BE AS DIRECTED BY THE OWNERS REPRESENTATIVE AT THE PRE-CONSTRUCTION MEETING. CONTRACTOR SHALL ASSUME A REASONABLE AMOUNT OF STORAGE AND STAGING SPACE WILL BE MADE AVAILABLE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING BUILDING SURFACES, FINISHES, AND SYSTEMS FROM DAMAGE, DISCOLORATION, ETC. DURING THE COURSE OF ALL CONSTRUCTION ACTIVITIES.
4. 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 RESPONSIBILITY OF THE CONTRACTOR.
5. EXISTING MATERIALS AND CONSTRUCTION ARE NOTED ON THE DRAWINGS AS EXISTING OR EXIST. ALL OTHER NOTATIONS INDICATE NEW MATERIALS, PRODUCTS, AND CONSTRUCTION UNLESS OTHERWISE STATED OR INDICATED.
6. ALL CONSTRUCTION SHALL CONFORM TO THE 2014 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.
8. THIS PROJECT INCLUDES A BASE BID FOR A ROOF REPLACEMENT PROJECT AT ROOF AREAS A AND B AND AN ALTERNATE BID FOR ROOF AREAS C, D, E AND F INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: REMOVAL OF EXISTING GRAVEL SURFACED BUILT-UP ROOF ASSEMBLY DOWN TO EXISTING SHEATHING, SHEATHING REPAIRS, PERIMETER WOOD NAILERS AND WOOD FRAMED PARAPET WALLS, DEMOLITION OF EXISTING ATTIC VENTILATION, ABANDONED UNITS AND DECOMMISSIONED MASONRY CHIMNEY AND COVERING OF EXISTING OPENINGS, MODIFICATION OF THROUGH ROOF PENETRATIONS AND CURBS TO ESTABLISH REQUIRED CLEARANCES ABOVE FINISHED ROOF INCLUDING DISCONNECTION AND RE-CONNECTION OF MECHANICAL UNITS, REPLACEMENT OF UNIT SKYLIGHTS, INSTALLATION OF VAPOR BARRIER / TEMPORARY ROOF, INSTALLATION OF DECK LEVEL RIGID INSULATION AND COVER BOARD, INSTALLATION OF FULLY ADHERED 90-MIL EPDM SINGLE PLY ROOFING MEMBRANE, REMOVAL AND REPLACEMENT OF ROOF RELATED SHEET METAL FLASHINGS AND TRIM, REMOVAL AND REPLACEMENT OF EXTERIOR HANGING GUTTERS AND DOWNSPOUTS, INSTALLATION OF FALL PROTECTION ANCHORS, INSTALLATION OF ACCESS LADDERS, STUCCO AND METAL PANEL CLADDING ASSEMBLIES. WORK DOES NOT INCLUDE ANY INCREASE IN AREA OR CHANGES IN OCCUPANCY.
9. ROOF ACCESS BY MEANS OF EXTERNAL STAIR TOWER / SCAFFOLDING, LADDERS, EXTERNAL LIFT, OR OTHER APPROVED DEVICE - PROVIDED BY CONTRACTOR.

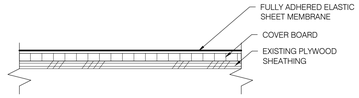
ROOF SYSTEM ASSEMBLIES



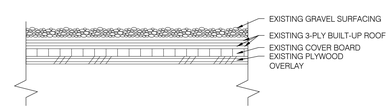
4 GI-1 EXISTING ROOF ASSEMBLY
ROOF AREA A & B (BASE BID)
SCALE: 3" = 1'-0"



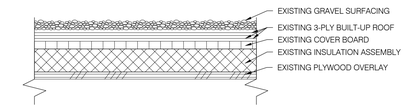
5 GI-1 NEW ROOF ASSEMBLY
ROOF AREA A & B (BASE BID)
SCALE: 3" = 1'-0"



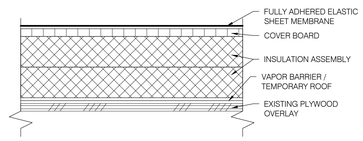
6 GI-1 NEW ROOF ASSEMBLY
ROOF AREA C & D (ALTERNATE BID)
SCALE: 3" = 1'-0"



7 GI-1 EXISTING ROOF ASSEMBLY
ROOF AREA C & D (ALTERNATE BID)
SCALE: 3" = 1'-0"



8 GI-1 EXISTING ROOF ASSEMBLY
ROOF AREA E & F (ALTERNATE BID)
SCALE: 3" = 1'-0"



9 GI-1 NEW ROOF ASSEMBLY
ROOF AREA E & F (ALTERNATE BID)
SCALE: 3" = 1'-0"

PROJECT TEAM

OWNER

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Contact: Jose Ponce, RRO

DRAWING SYMBOLS

DETAIL REFERENCE ON PLAN
DRAWINGS - SIM. INDICATES SIMILAR CONSTRUCTION AS SHOWN ON DETAIL NOTED.

1 REPAIR NOTE REFERENCE

X KEY NOTE REFERENCE

X DRAWING REVISION

dowa | IBI
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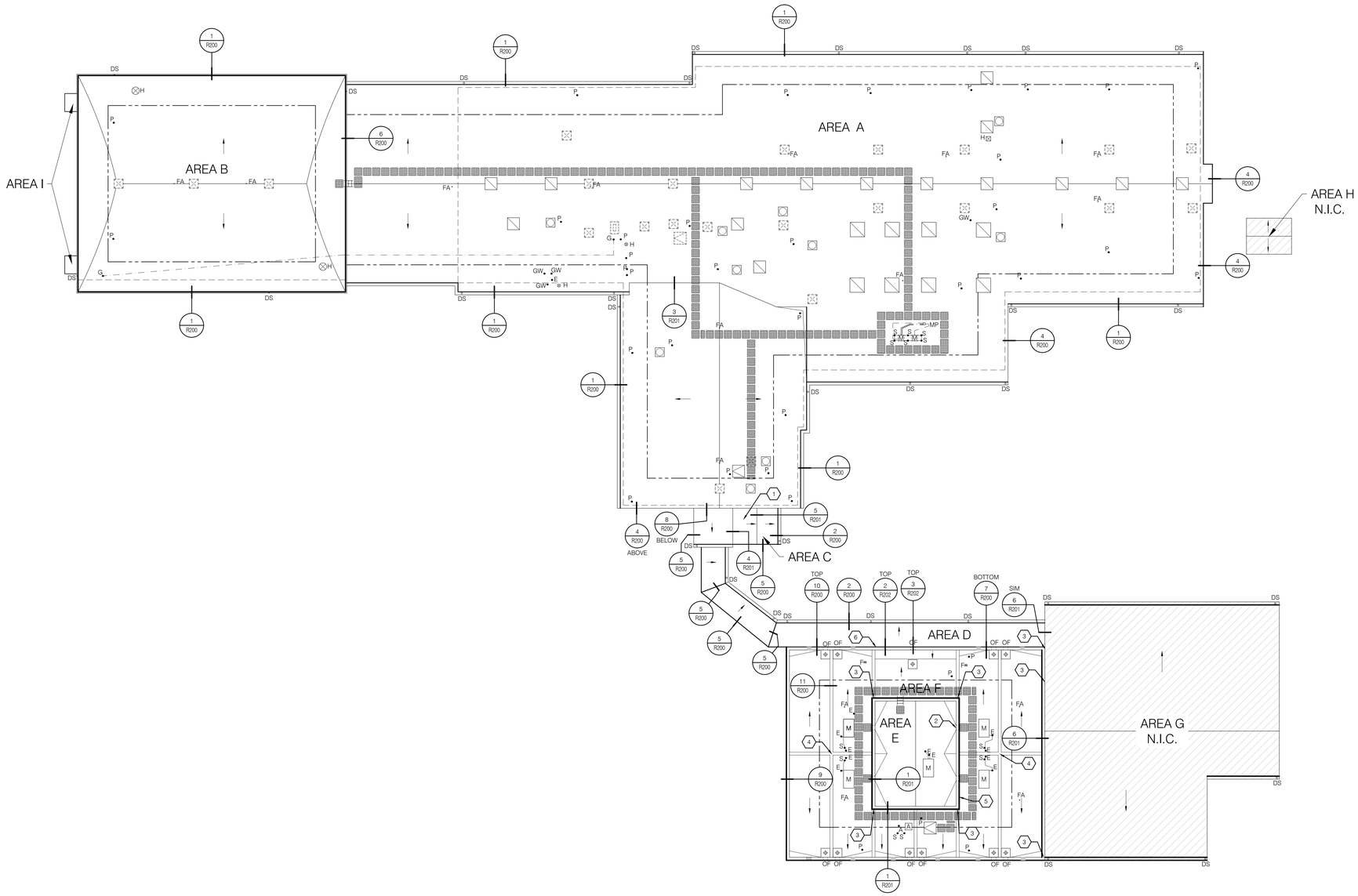
PROFESSIONAL ROOF CONSULTANTS INC

phase	Bid Documents
date	February 22, 2019
revisions	

project # 119190

General Information

GI-1



LEGEND

- A• EXISTING ABANDONED PENETRATION - DEMO AND CLOSE EXISTING OPENING PER STRUCTURAL
- E• EXISTING ELECTRICAL PENETRATION
- G• EXISTING GAS PENETRATION
- GW• EXISTING GUY WIRE PROVIDE ROOF MANUFACTURER APPROVED FLASHING DETAIL
- P• EXISTING VENT PIPE PENETRATION
- S• EXISTING STRUCTURAL PENETRATION
- MP▫ MULTI-PIPE PENETRATION
- FA FALL PROTECTION ANCHOR
- H ⊠ EXISTING CURBED VENT (HOT)
- H⊕ EXISTING FLANGED PENETRATION (HOT)
- F∞ EXISTING FLANGED PENETRATION
- DS GUTTER DOWNSPOUT
- OF OVERFLOW SCUPPER
- UNIT SKYLIGHT
- M EXISTING CURBED MECHANICAL UNIT
- EXISTING CURBED FAN UNIT
- EXISTING ROOF DRAIN
- EXISTING CURBED VENT
- EXISTING MECHANICAL UNITS - DEMO EXISTING CURBS AND RAISE UNIT ONTO ELEVATED STANDS ATTACHED PER STRUCTURAL DRAWINGS
- NEW OR EXISTING ROOF ACCESS HATCH - RAISE TO ESTABLISH REQUIRED CLEARANCE ABOVE FINISHED ROOF
- ROOF ACCESS LADDER - REMOVE AND REPLACE ATTACH PER STRUCTURAL DRAWINGS
- EXISTING CONDUIT OVER ROOF - RAISE TO ACCOMMODATE HEIGHT OF NEW ROOF ASSEMBLY AND PLACE ON PIPE SUPPORTS. BASIS OF DESIGN: OMG HEIGHT ADJUSTABLE STRUT PIPE SUPPORT OR APPROVED.
- INDICATES DIRECTION OF EXISTING ROOF SLOPE
- HATCHED AREA INDICATE ROOF AREA NOT IN CONTRACT
- DECOMMISSIONED CHIMNEY DEMO TO BELOW ROOF DECK COVER SHEATHING OPENING PER STRUCTURAL
- DECOMMISSIONED LADDER REPAIR PENETRATIONS TO ESTABLISH WATERTIGHT INTEGRITY MATCH EXISTING FINISHES AS NECESSARY
- DECOMMISSIONED OVERFLOW SCUPPER OPENING CLOSE EXISTING OPENING WITH 1/2 INCH PLYWOOD SHEATHING ON BOTH SIDES OF OPENING MATCH EXISTING STUCCO
- DECOMMISSIONED ACCESS HATCH DEMO AND CLOSE SHEATHING OPENING PER STRUCTURAL
- PERIMETER WARNING LINE
- DECOMMISSIONED ATTIC VENTS DEMO AND CLOSE SHEATHING OPENING PER STRUCTURAL DRAWINGS
- WALK PADS

KEY NOTES

1. REMOVE EXISTING METAL PANEL ROOF SYSTEM
2. RESIZE ALL FOUR EXISTING PRIMARY SCUPPER OPENINGS AT ROOF AREA E TO ESTABLISH A 4" HEIGHT X 7" WIDTH ROUGH OPENING. INFILL EXISTING OPENING WITH NEW SHEATHING AS NECESSARY.
3. PROVIDE 24 GAUGE STAINLESS STEEL SADDLE FLASHINGS WITH SOLDERED SEAMS AT PARAPET AND DIVIDING WALL VERTICAL INTERFACE TERMINATIONS. REFERENCE 11/R203.
4. PROVIDE ONE PIECE FOUR WAY INTERSECTION SHEET METAL COPING PIECE. CONNECT TO STRAIGHT SECTIONS WITH STANDING SEAM. REFERENCE 10/R203.
5. DEMO AND REPLACE EXISTING METAL WALL PANEL CLADDING REFERENCE DETAILS.
6. DEMO EXISTING METAL WALL PANEL REMOVE ALL PROTRUSIONS AND SURFACE IRREGULARITIES TO ESTABLISH A SUITABLE SUBSTRATE FOR APPLICATION OF WEATHER BARRIER SYSTEM. PRIME SUBSTRATE PRIOR TO INSTALLING WATER RESISTIVE BARRIER.

1 R100 OVERALL ROOF PLAN
SCALE: 1/16" = 1'-0"

N

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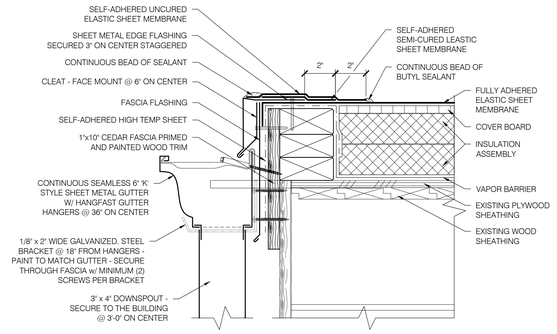
WEST TUALATIN VIEW ELEMENTARY SCHOOL REROOF

Beaverton School District
16550 SW Merlo Road
Beaverton, Oregon 97003
t: (503) 591-8000

phase	Bid Documents
date	February 22, 2019
revisions	
project #	119190

OVERALL ROOF PLAN

R100



1 R200 GUTTER EDGE
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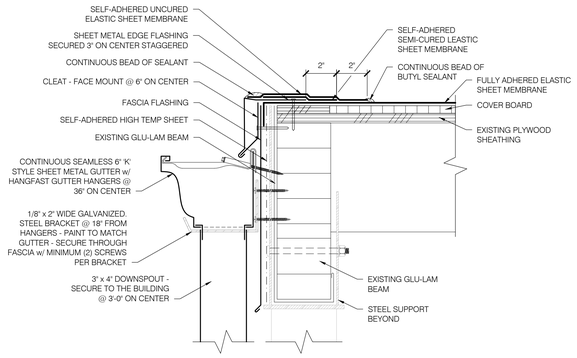

2 R200 GUTTER EDGE
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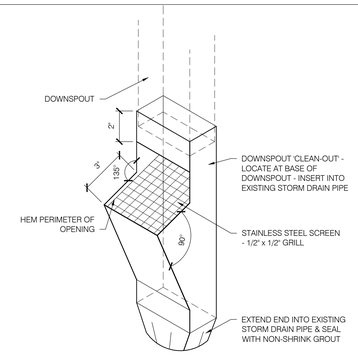

3 R200 DOWNSPOUT CLEAN-OUT
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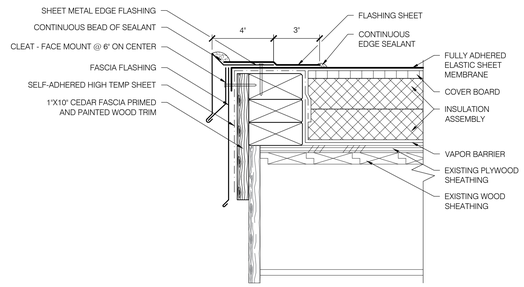
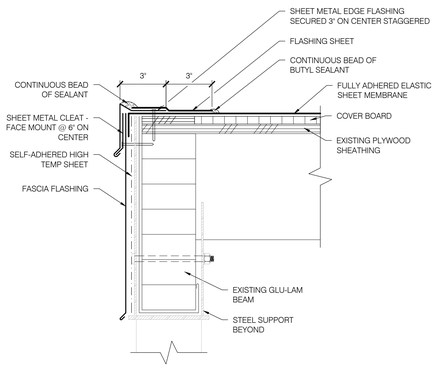
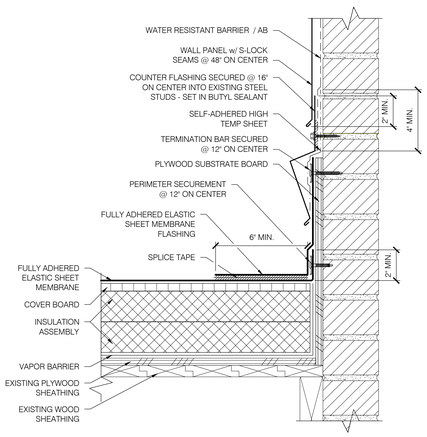


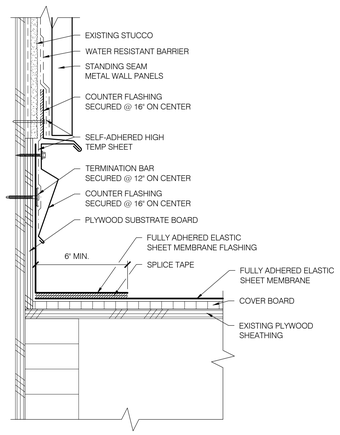
4 R200 RAKE EDGE
SCALE: 3" = 1'-0"



5 R200 RAKE EDGE
SCALE: 3" = 1'-0"



6 R200 HIGH WALL BASE FLASHING
SCALE: 3" = 1'-0"



7 R200 HIGH WALL BASE FLASHING
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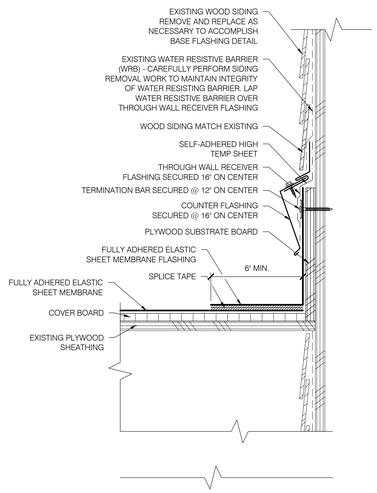

8 R200 HIGH WALL BASE FLASHING
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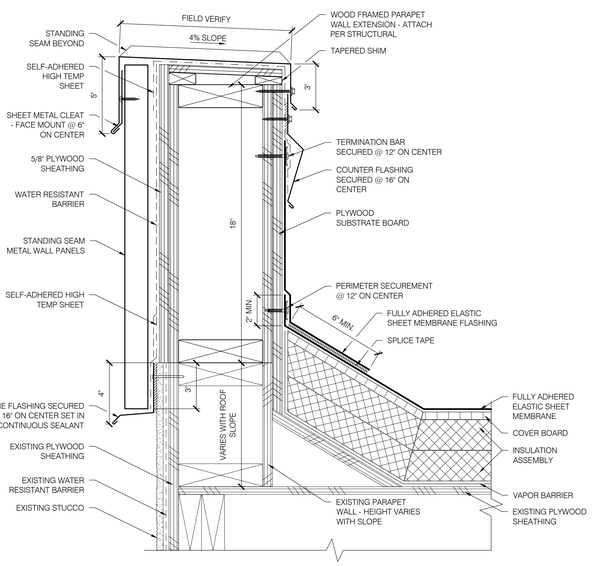
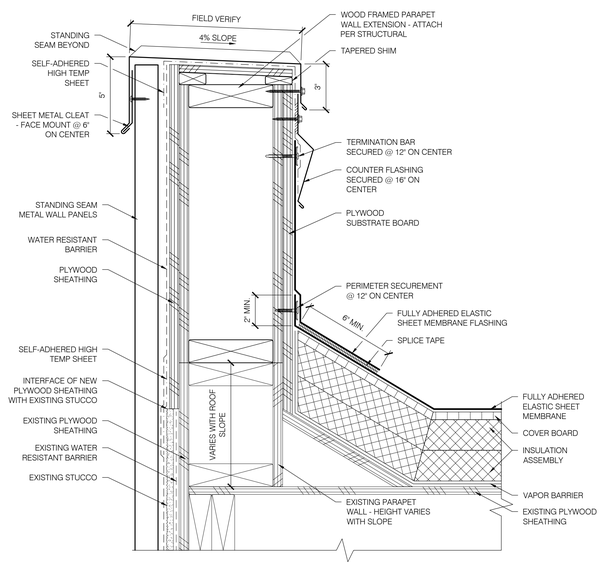
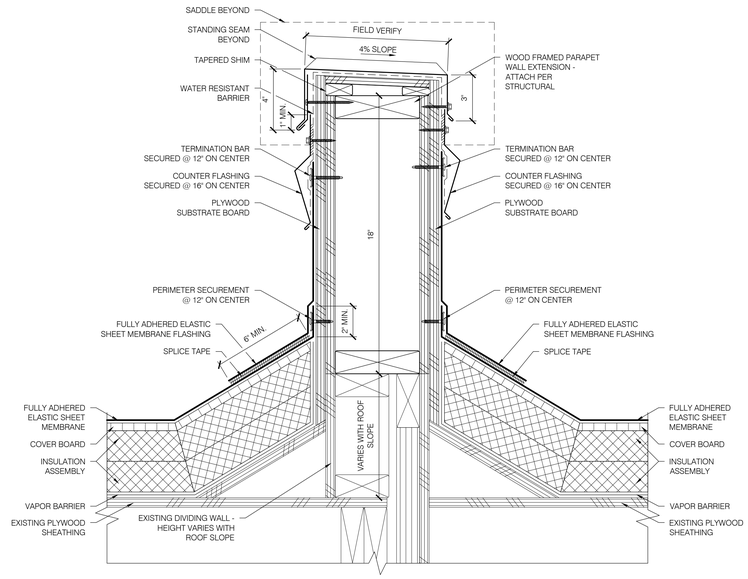


9 R200 PARAPET WALL
SCALE: 3" = 1'-0"



10 R200 PARAPET WALL
SCALE: 3" = 1'-0"



11 R200 DIVIDING WALL
SCALE: 3" = 1'-0"

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PROFESSIONAL ROOF CONSULTANTS INC

0 3/32" 3/16"

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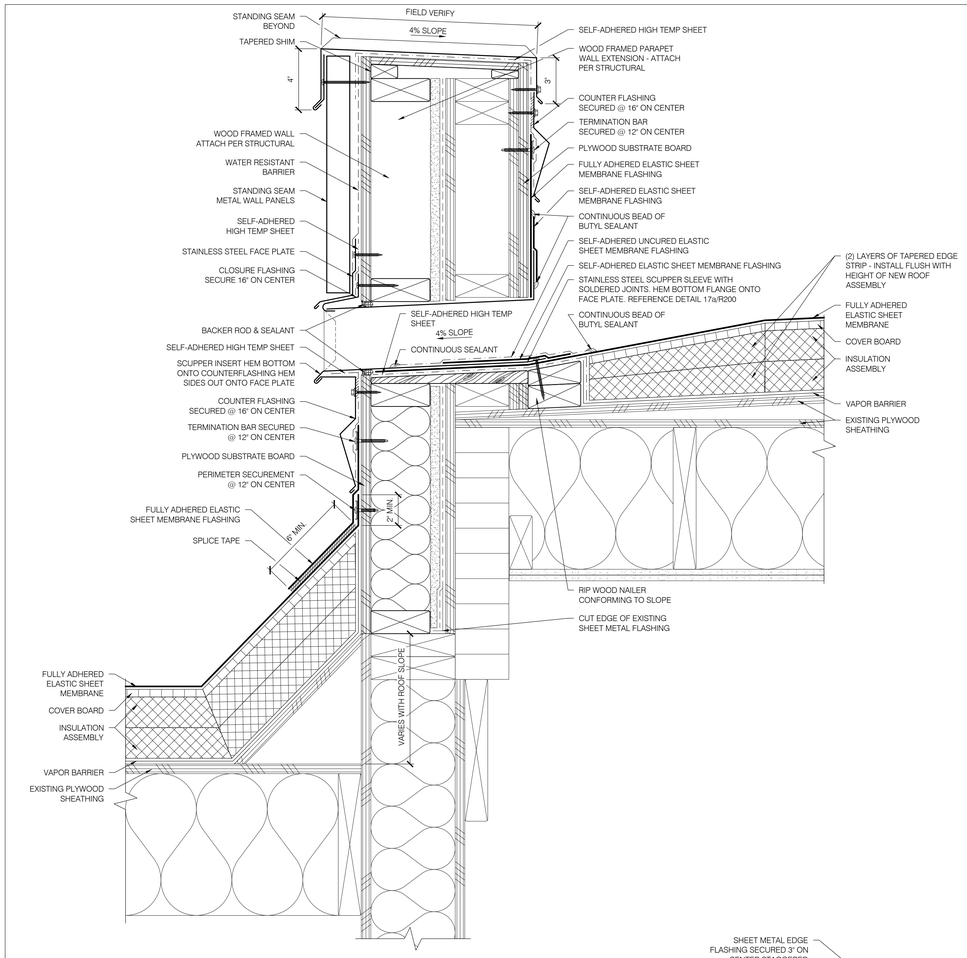
Details

R200



1 R201 HIGH WALL BASE FLASHING / PARAPET WALL
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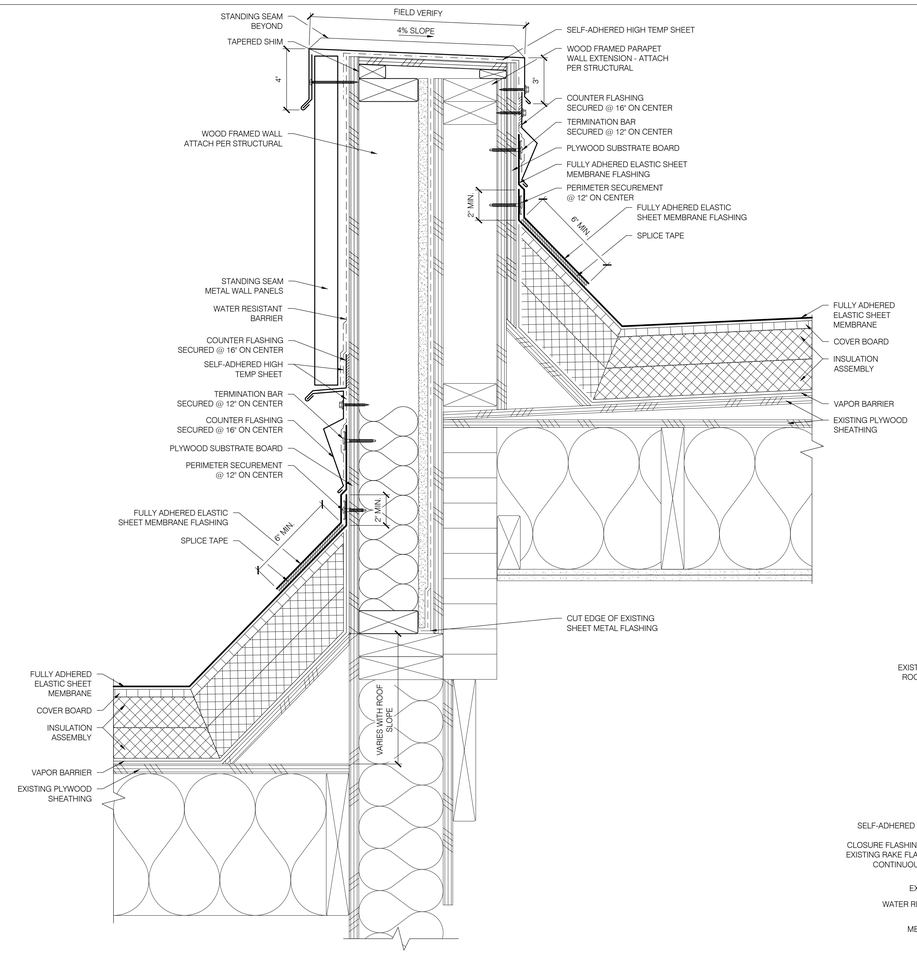

2 R201 HIGH WALL BASE FLASHING / PARAPET WALL
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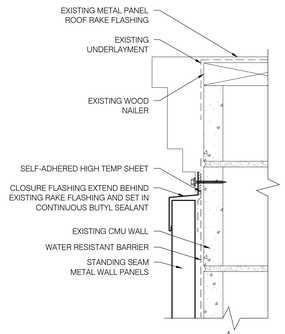

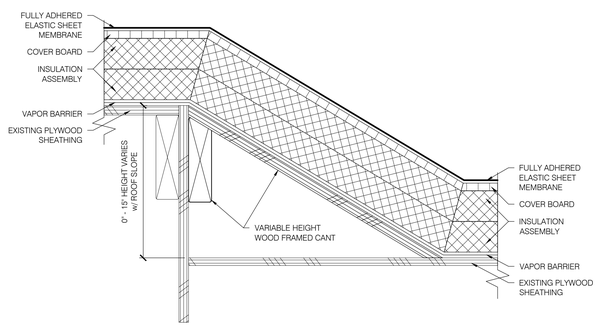

3 R201 TRANSITION
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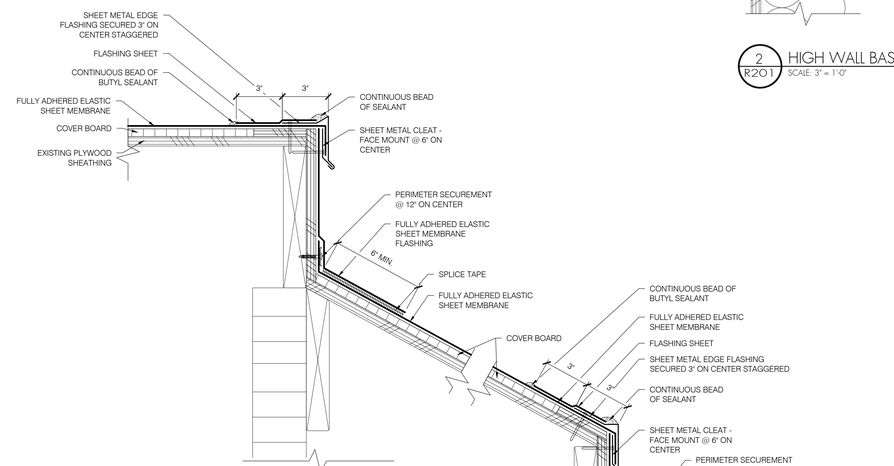
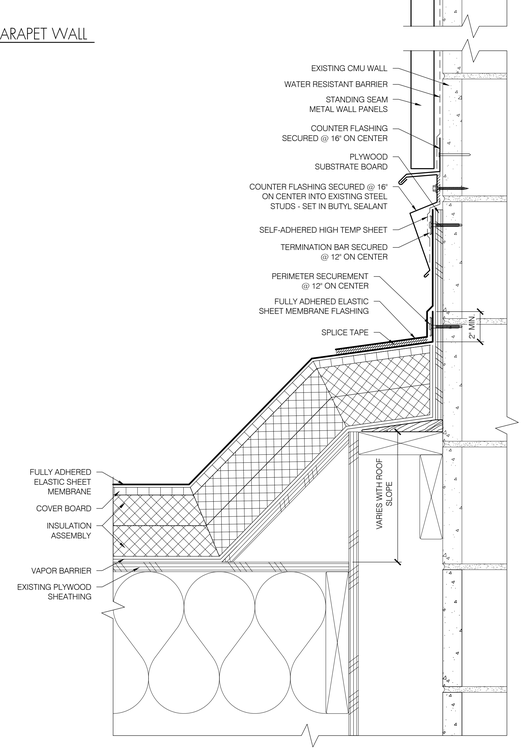


4 R201 LOW TO STEEP SLOPE TRANSITIONS
SCALE: 3" = 1'-0"

5 R201 LOW TO STEEP SLOPE TRANSITIONS
SCALE: 3" = 1'-0"



6 R201 HIGH WALL BASE FLASHING
SCALE: 3" = 1'-0"

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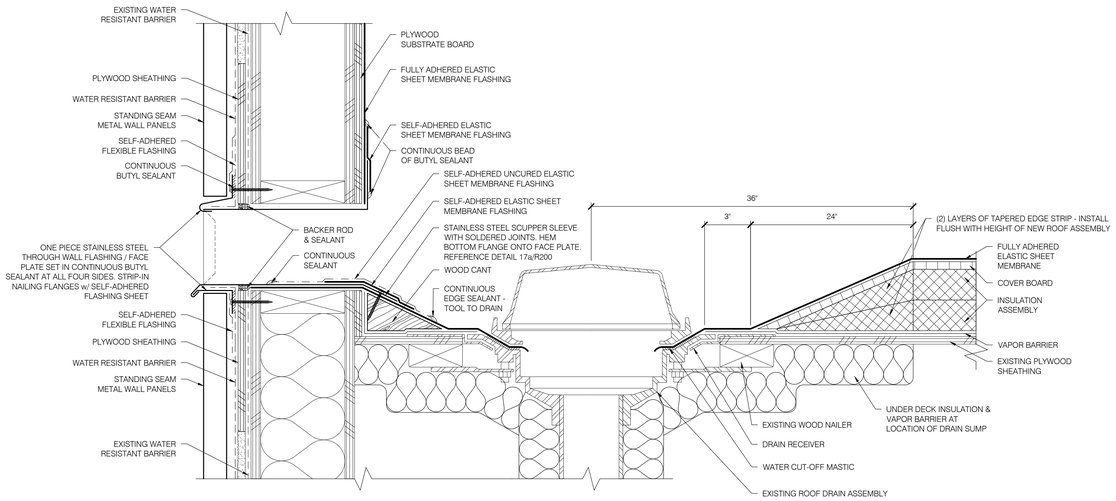
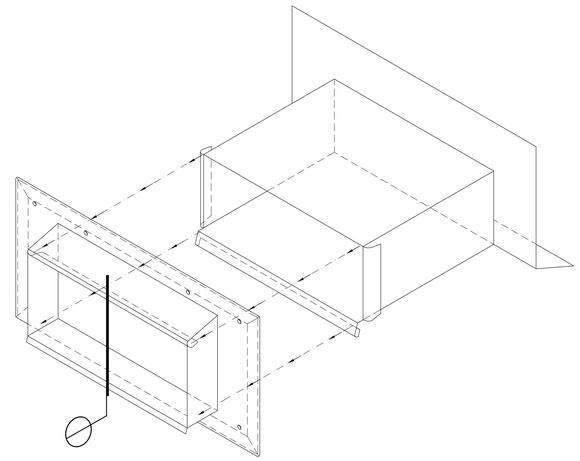
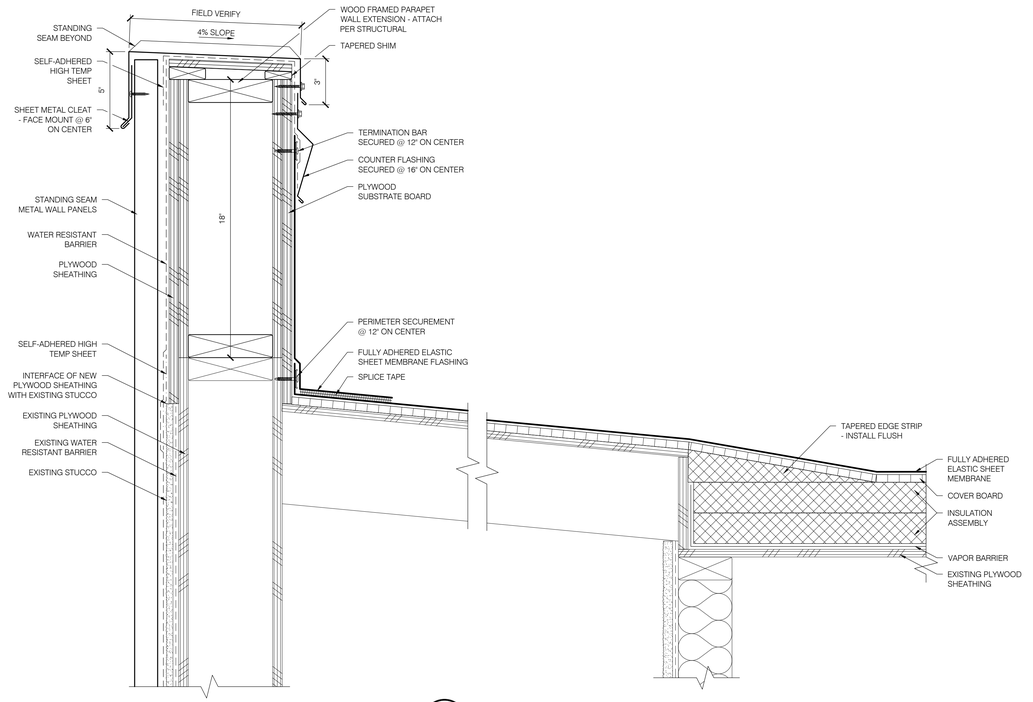


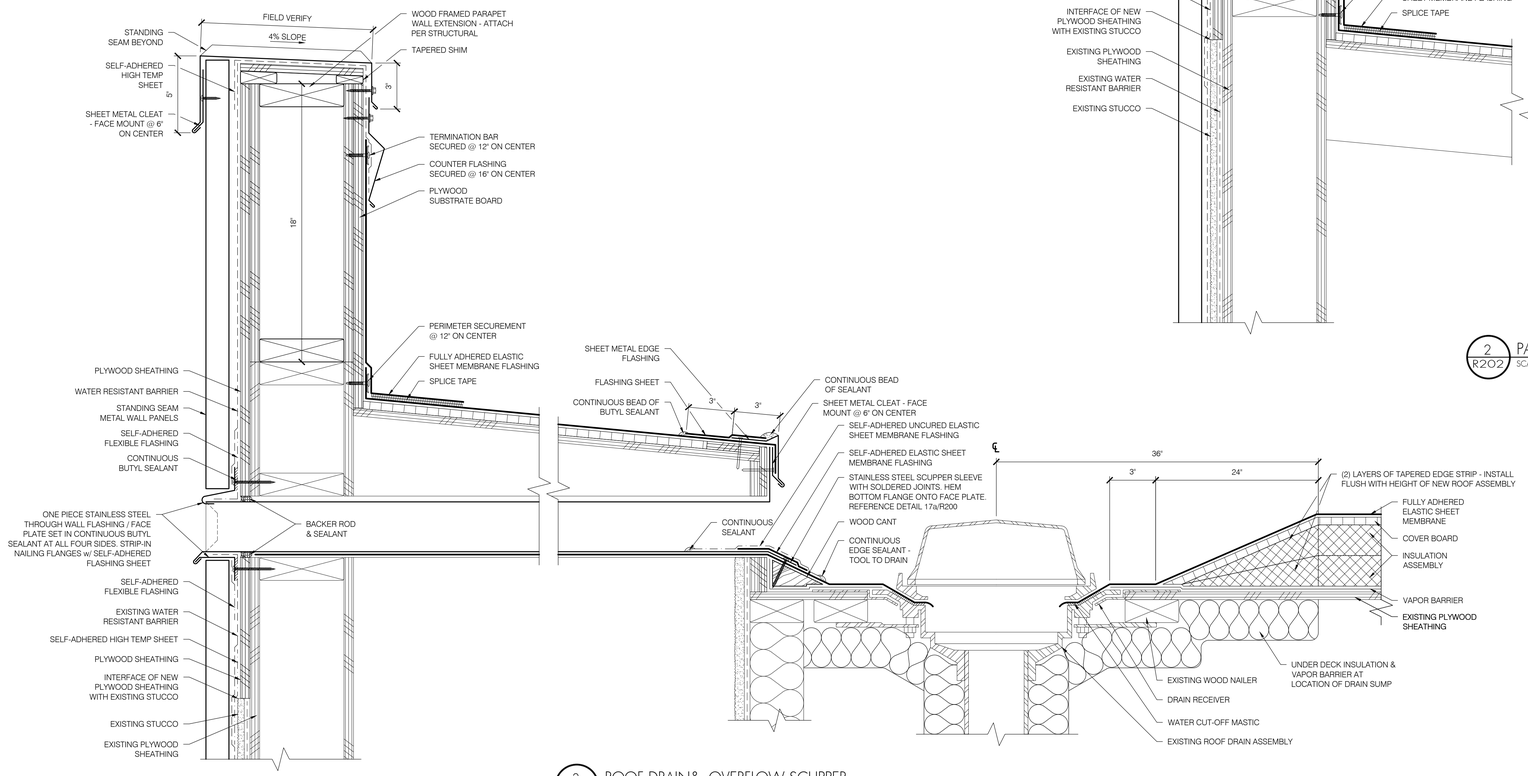
1 R202 ROOF DRAIN& OVERFLOW SCUPPER
SCALE: 3" = 1'-0"



1a R202 SCUPPER ISOMETRIC VIEW
SCALE: NOT TO SCALE



2 R202 PARAPET WALL
SCALE: 3" = 1'-0"



3 R202 ROOF DRAIN& OVERFLOW SCUPPER
SCALE: 3" = 1'-0"

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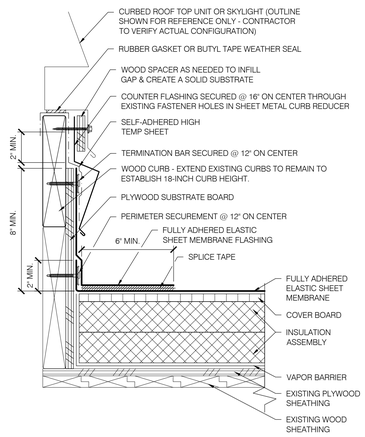
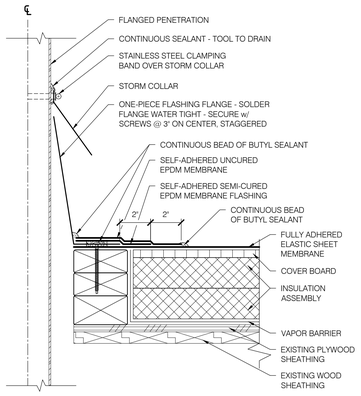
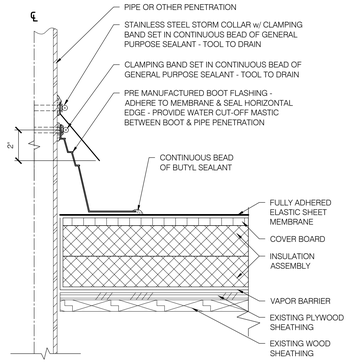


1 R203 CURB MOUNTED ROOF TOP UNIT
SCALE: 3" = 1'-0"



2 R203 HOT PIPE PENETRATION FLASHING
SCALE: 3" = 1'-0"



3 R203 PRE-FORMED PENETRATION FLASHING
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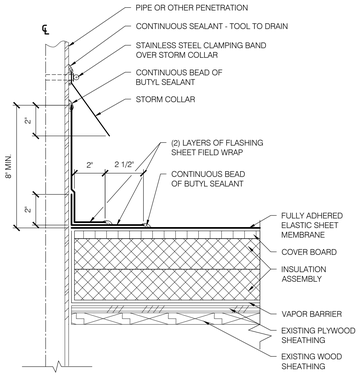
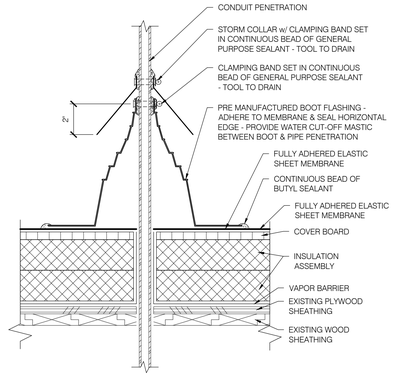


4 R203 FIELD WRAP PENETRATION FLASHING
SCALE: 3" = 1'-0"



5 R203 ELECTRICAL PENETRATION
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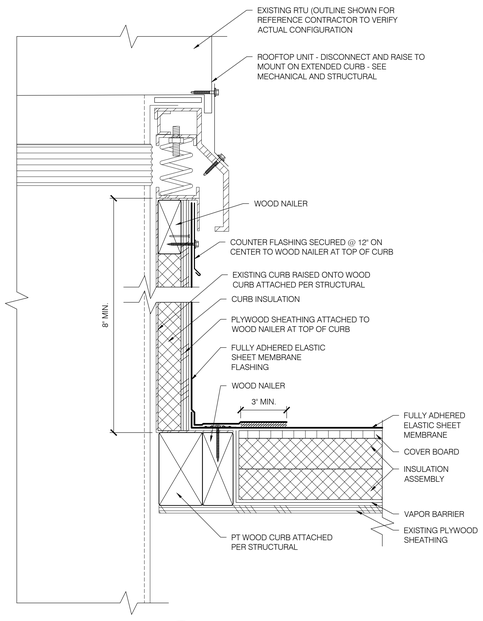
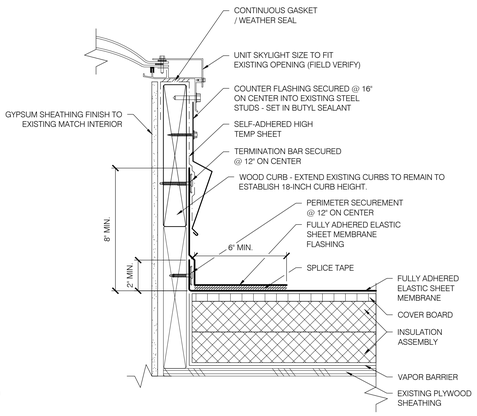


6 R203 CURB MOUNTED ROOF TOP UNIT
SCALE: 3" = 1'-0"



7 R203 CURBED SKYLIGHT
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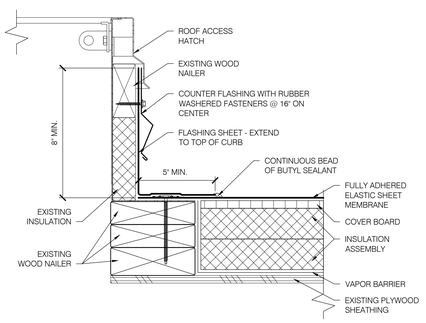

8 R203 ROOF HATCH
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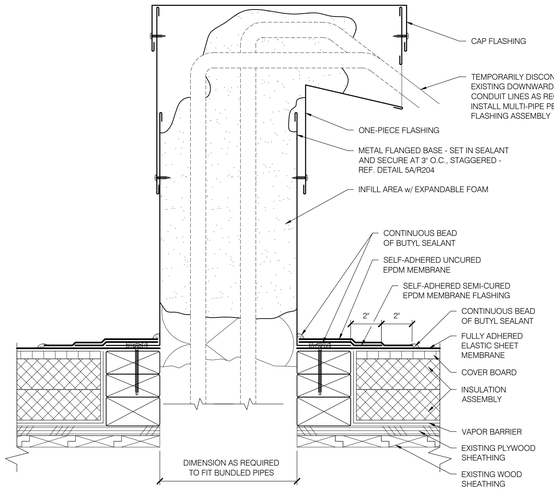

9 R203 MULTI-LINE PENETRATION
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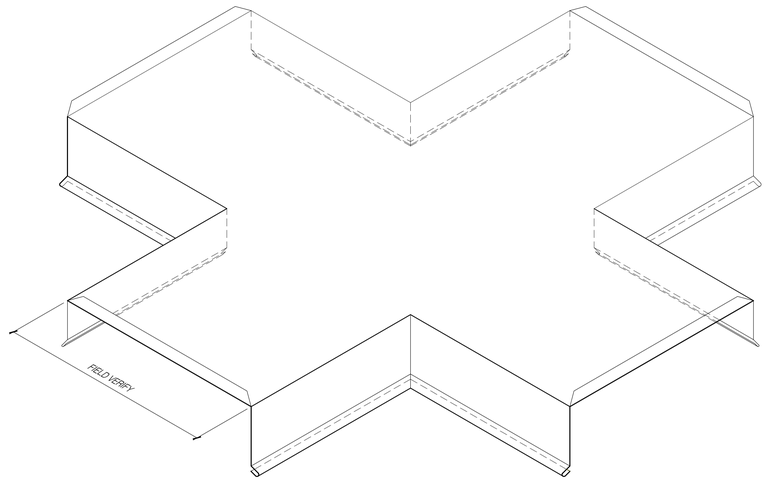
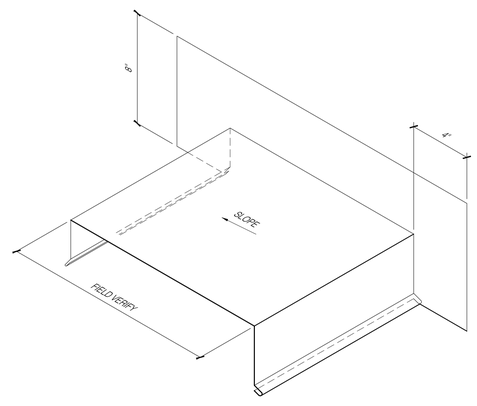
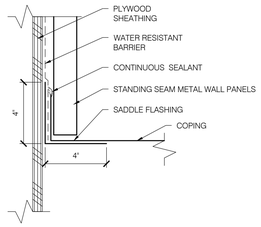


10 R203 4-WAY COPING INTERFACE
SCALE: N.T.S.



11 R203 SADDLE FLASHING
SCALE: N.T.S.



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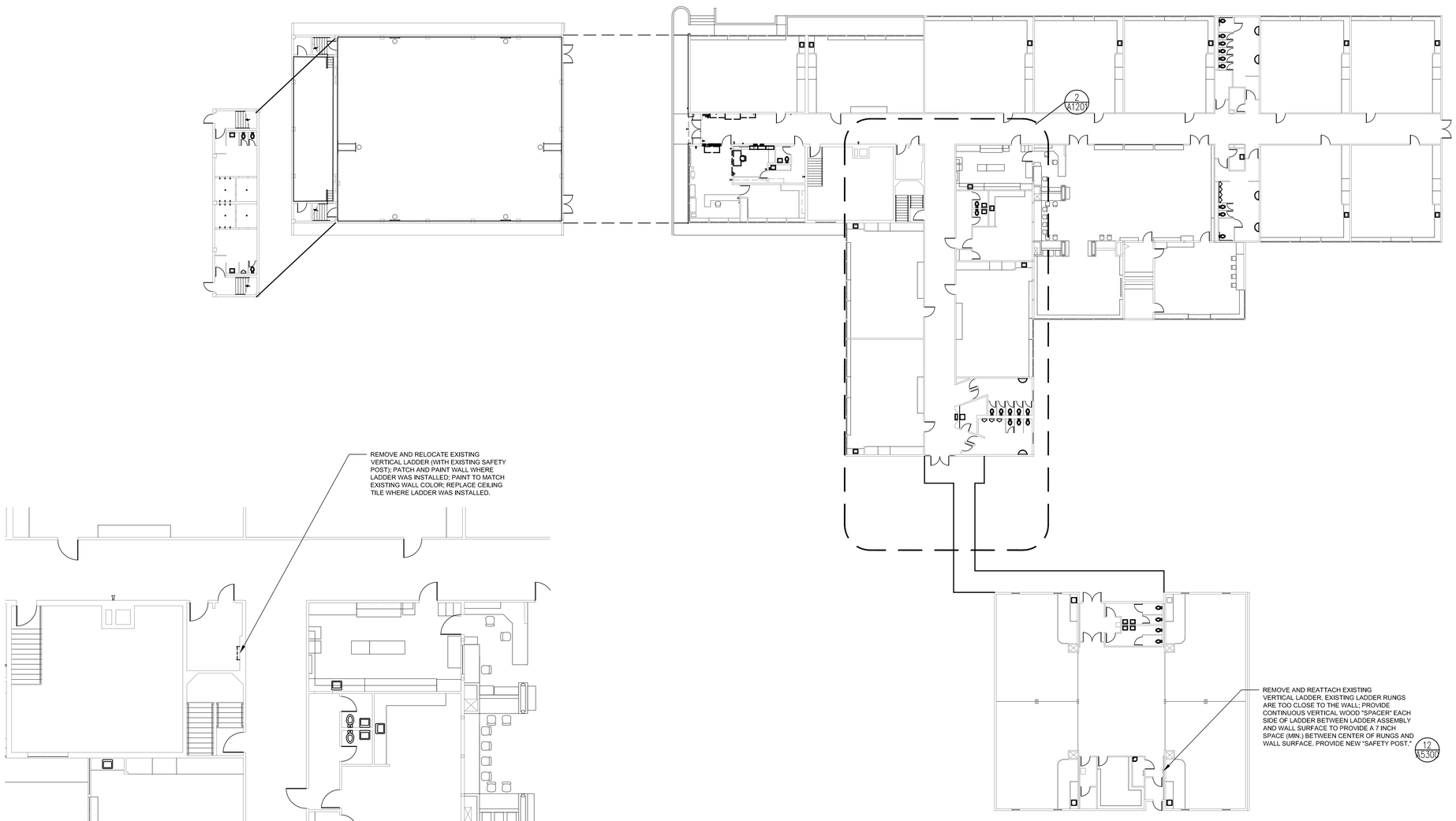

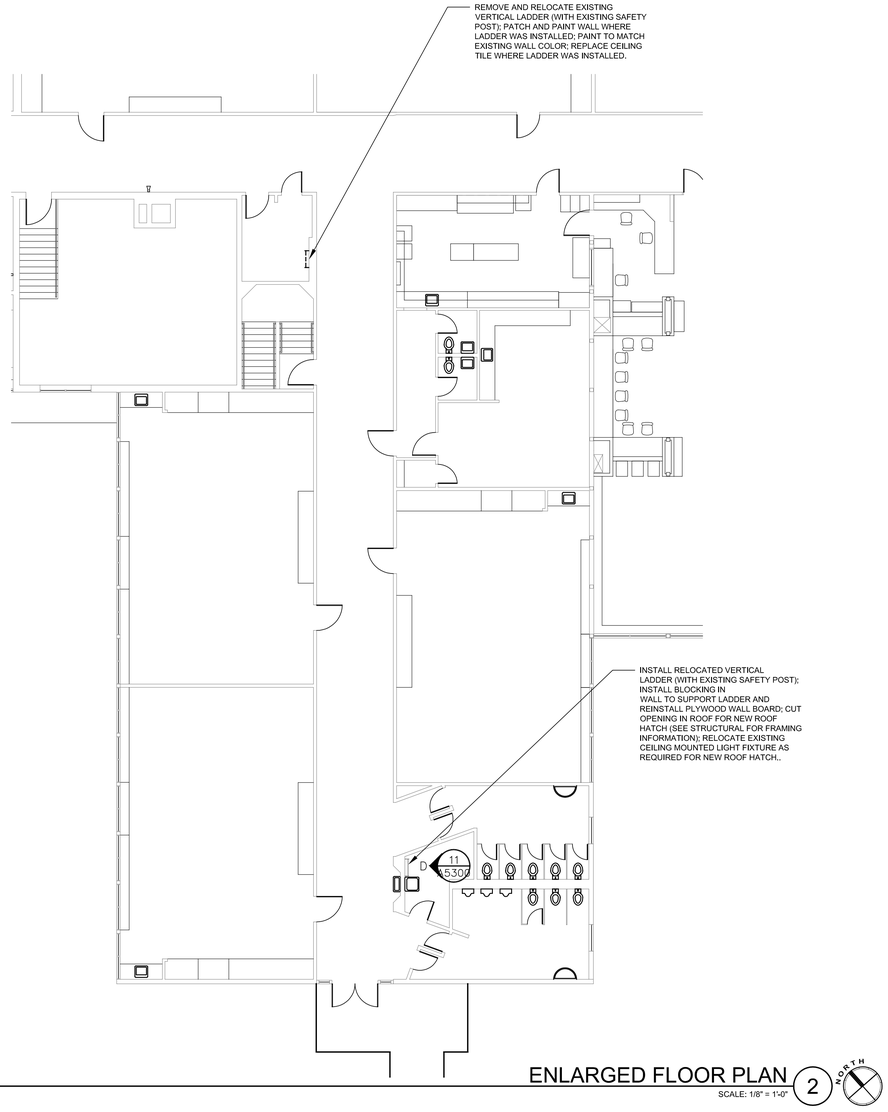

ENLARGED FLOOR PLAN
SCALE: 1/8" = 1'-0"
2
NORTH

MAIN FLOOR PLAN
SCALE: 1/16" = 1'-0"
1
NORTH

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REGISTERED ARCHITECT
4346
JAMES M. FITZPATRICK
PORTLAND, OREGON
STATE OF OREGON
Digitally signed by James M. Fitzpatrick
Date: 2019.02.22 17:09:40-08'00'

phase	Bid Documents
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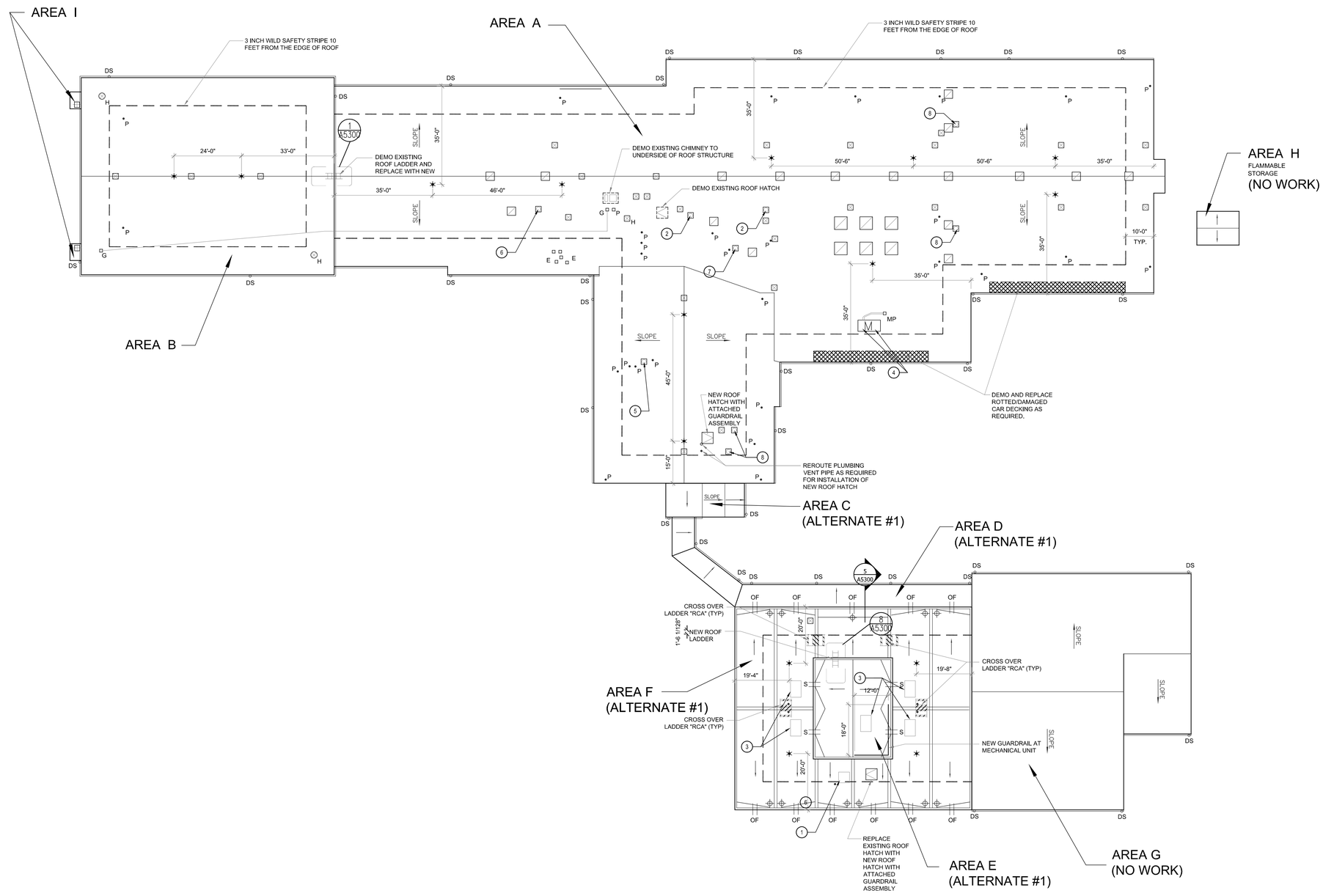
Floor Plan

A1201



ROOF PLAN

SCALE: 1/16" = 1'-0"

NORTH

SHEET KEY NOTES

6. DEMOLISH EXHAUST FAN AND ROOF CURB COMPLETE. PROVIDE DESIGN BUILD SERVICES TO REPLACE IN-KIND. EXISTING EXHAUST FAN SIZED FOR 75 CFM AT 0.25" ON WOODEN ROOF CURB. PROVIDE ELECTRICAL AND CONTROL RECONNECTION TO UNIT TO OPERATE AS BEFORE.

7. DEMOLISH EXHAUST FAN AND ROOF CURB COMPLETE. PROVIDE DESIGN BUILD SERVICES TO REPLACE IN-KIND. CURRENT EXHAUST FAN SIZED FOR 150 CFM AT 0.25" ON WOODEN ROOF CURB. PROVIDE ELECTRICAL AND CONTROL RECONNECTION TO UNIT TO OPERATE AS BEFORE.

8. DEMOLISH EXHAUST FAN AND ROOF CURB COMPLETE. PROVIDE DESIGN BUILD SERVICES TO REPLACE IN-KIND. CURRENT EXHAUST FAN SIZED FOR 400 CFM AT 0.25" ON WOODEN ROOF CURB. PROVIDE ELECTRICAL AND CONTROL RECONNECTION TO UNIT TO OPERATE AS BEFORE.

SHEET KEY NOTES

1. CONFIRM CURB IS ABANDONED AND NOT REQUIRED FOR FUTURE USE WITH DISTRICT. UPON CONFIRMATION, DEMOLISH ROOF CURB, SUPPORTS, ELECTRICAL CONNECTIONS, AND ALL APPURTENANCES COMPLETE.

2. CONFIRM EXHAUST FAN IS NOT REQUIRED FOR FUTURE USE WITH DISTRICT. UPON CONFIRMATION, DEMOLISH EQUIPMENT, ROOF CURB, CONTROLS AND ELECTRICAL CONNECTIONS, SUPPORTS, AND ALL APPURTENANCES COMPLETE. IF FAN IS REQUIRED, PROVIDE MECHANICAL, CONTROLS, AND ELECTRICAL DESIGN BUILD SERVICES TO REPLACE FAN ACCORDING TO DISTRICT'S REQUIREMENTS. INSTALL FAN ON WOODEN ROOF CURB, PROVIDE ELECTRICAL RECONNECTION TO UNIT, AND CONTROL TO OPERATE AS BEFORE.

3. CAREFULLY DISCONNECT AND REMOVE RTU AND 21" ISOCURB, STORE FOR REUSE, AND REINSTALL WITH REROOFING. READJUST ISOLATOR SPRINGS TO OPERATE AS BEFORE. REPLACE ANY ELEMENTS OR EQUIPMENT DAMAGED DURING REMOVAL, STORAGE, OR REINSTALLATION PROCESSES.

4. DEMOLISH ROOFTOP CONDENSING UNITS, CURB, SUPPORTS, CONTROLS AND ELECTRICAL WIRING, REFRIGERANT PIPING, ASSOCIATED INDOOR UNITS, AND ALL APPURTENANCES COMPLETE. PROVIDE MECHANICAL, CONTROLS, AND ELECTRICAL DESIGN BUILD SERVICES TO REPLACE INDOOR AND OUTDOOR UNITS IN-KIND. PROVIDE OUTDOOR UNITS WITH 18" HEAVY DUTY ALUMINUM ROOF STAND, IN LIEU OF WOOD ROOF CURB. BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE ELECTRICAL RECONNECTION TO UNIT AND CONTROL TO OPERATE AS BEFORE.

5. DEMOLISH EXHAUST FAN, CURB, SUPPORTS, UNIT CONTROLS AND ELECTRICAL CONNECTIONS, AND ALL APPURTENANCES COMPLETE. PROVIDE DESIGN BUILD SERVICES TO REPLACE IN-KIND. PROVIDE ELECTRICAL AND CONTROL RECONNECTION TO UNIT TO OPERATE AS BEFORE.

GENERAL NOTES

1. SEE STRUCTURAL FOR ADDITIONAL FRAMING INFORMATION.
2. ALL EXISTING CURBED SKYLIGHTS TO BE REPLACED WITH NEW.
3. FALL ARREST ANCHORS TO BE ADDED TO ROOF AS SHOWN. THIS WILL BE A DEFERRED SUBMITTAL.
4. UNLESS OTHERWISE INDICATED, CAREFULLY REMOVE ROOFTOP PASSIVE VENTS AS REQUIRED FOR REROOFING, STORE FOR REUSE, AND REINSTALL UPON COMPLETION OF REROOFING.

ROOF AREAS

AREA A	= 28,542 SF
AREA B	= 6,734 SF
AREA C	= 361 SF
AREA D	= 1,147 SF
AREA E	= 1,073 SF
AREA F	= 5,033 SF
AREA G	= 6,048 SF
AREA H	= 180 SF
AREA I	= 48 SF

LEGEND

- DS — GUTTER AT ROOF EDGE WITH DOWN SPOUT
- DS — FLANGED DOWNSPOUT ROOF DRAIN
- OF — THROUGH WALL SCUPPER OVER FLOW
- S — THROUGH WALL SCUPPER
- INTERIOR ROOF DRAIN
- CURBED FAN UNIT
- CURBED PASSIVE VENT
- H — FLANGED FLUE OR PIPE (HOT)
- P — PIPE PENETRATION
- MP — MULTIPLE PENETRATION
- E — ELECTRICAL PENERATION
- G — NATURAL GAS PENERATION
- PITCH PAN PENERATION
- SLEEPER CURBS W/ EQUIPMENT OVER ROOF
- M — CURBED MECHANICAL UNIT
- CONDUIT OVER ROOF
- CURBED ROOF ACCESS HATCH
- CURBED SKYLIGHT
- ROOF ACCESS LADDER
- MASONRY CHIMNEY
- SCREEN WALL
- NEW FALL ARREST ANCHOR (TYPICAL OF 15)
- YELLOW WARNING STRIP

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revisions	
project #	119190

Roof Plan

A1401

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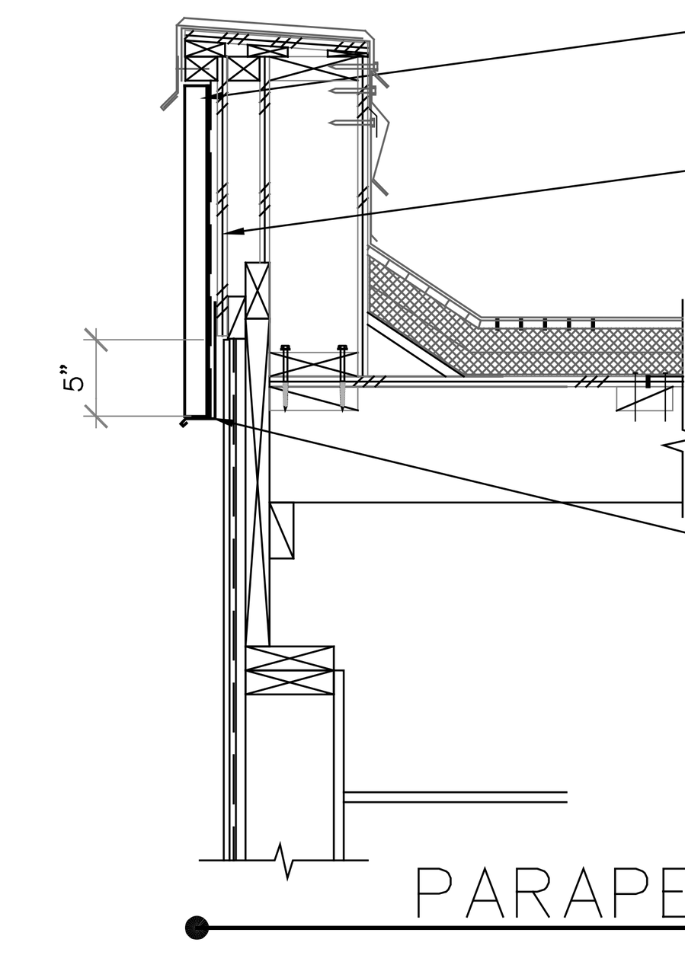
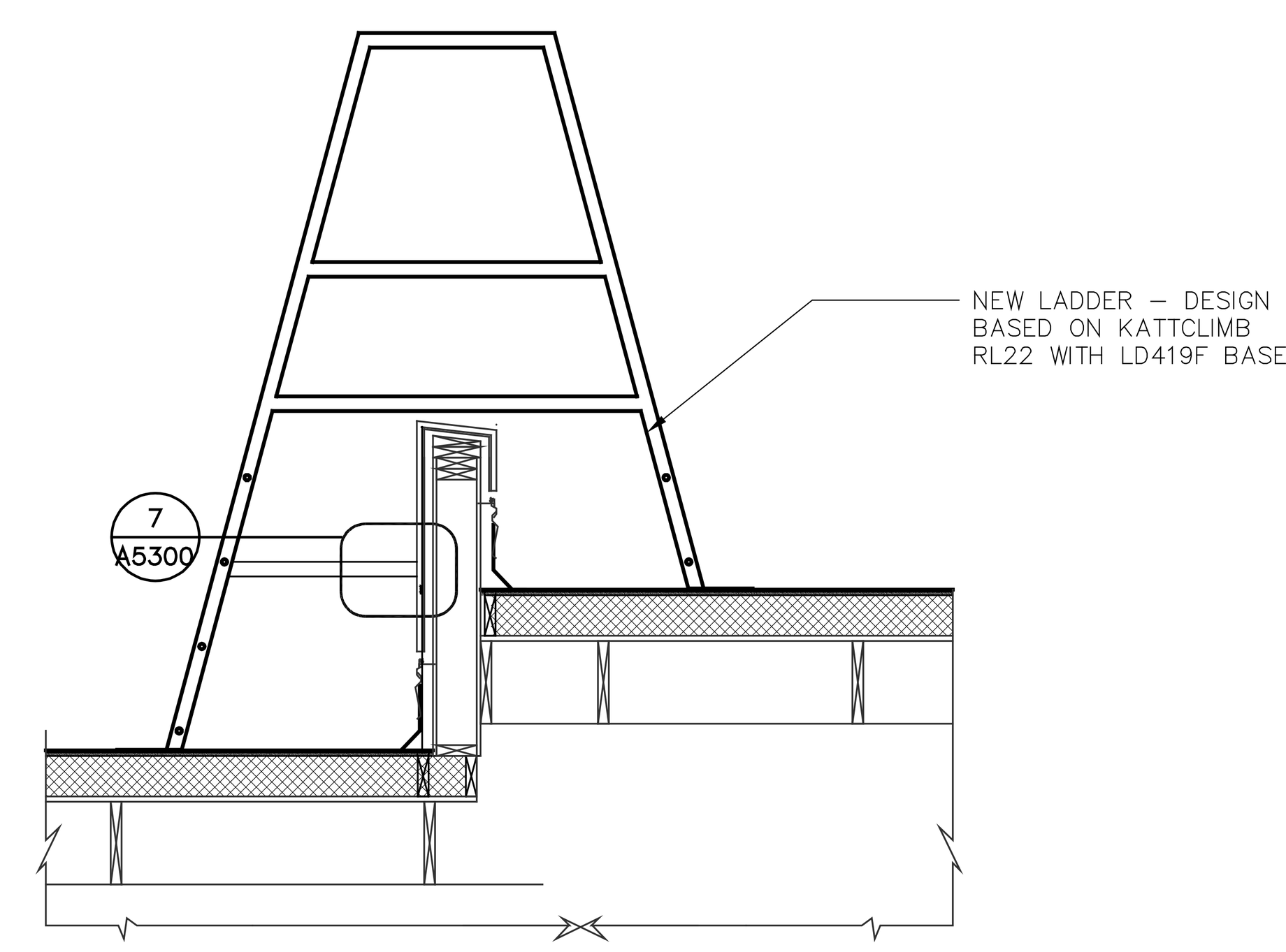
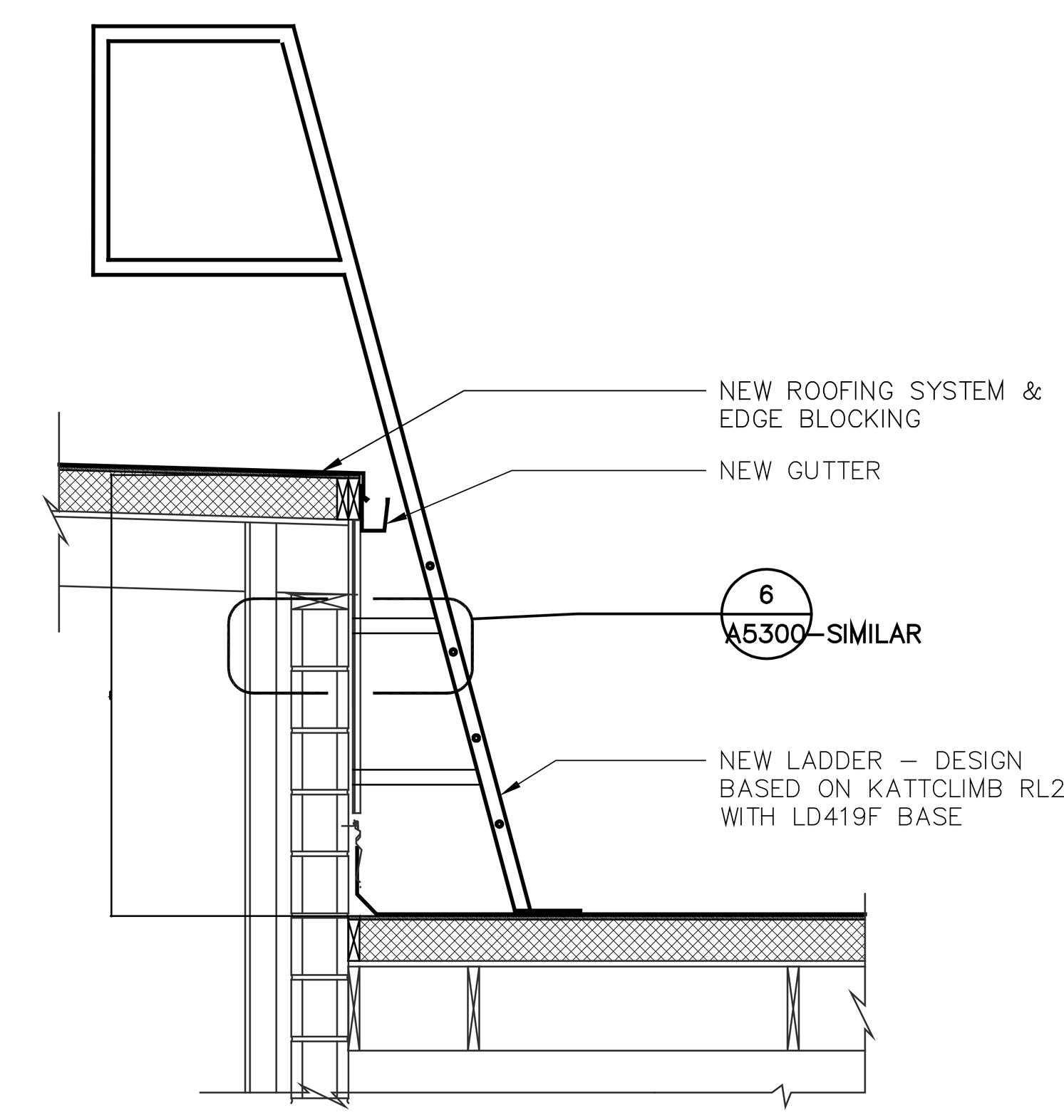


PARAPET DETAIL 5
SCALE: 1" = 1'-0"



LADDER SECTION 8
1/2" = 1'-0"



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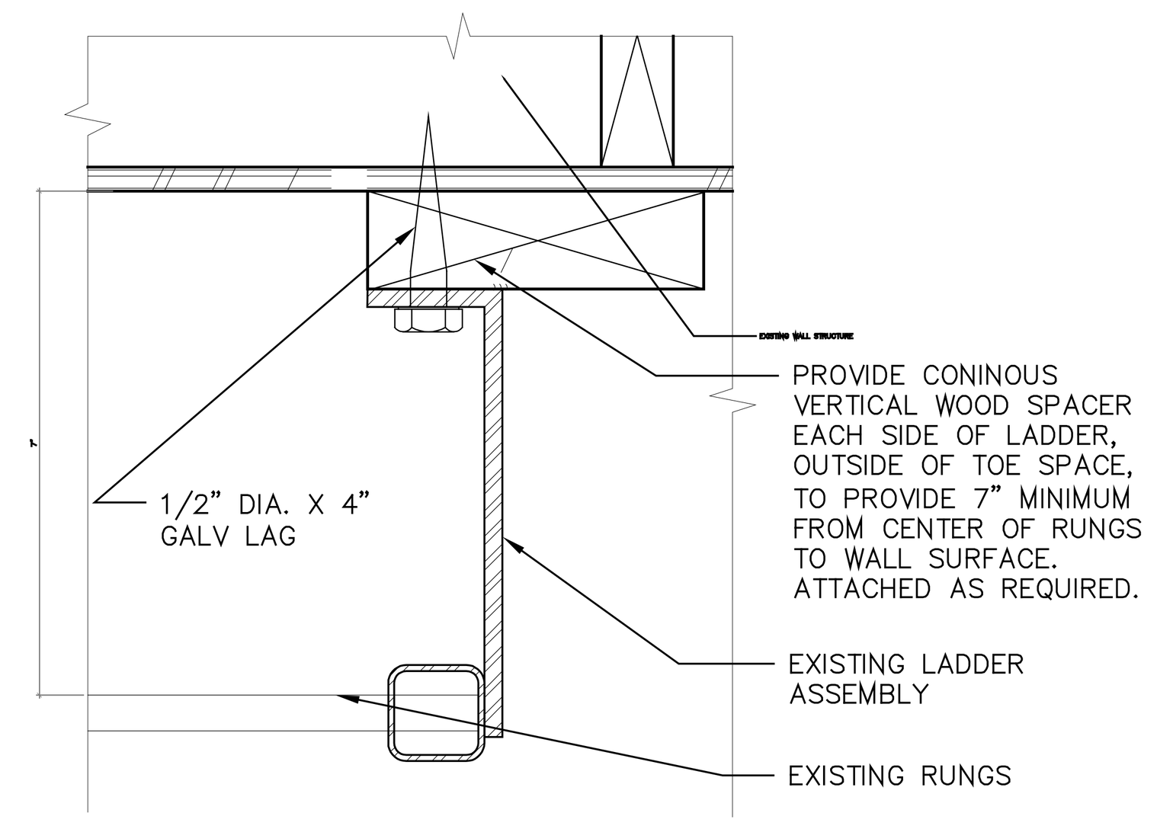
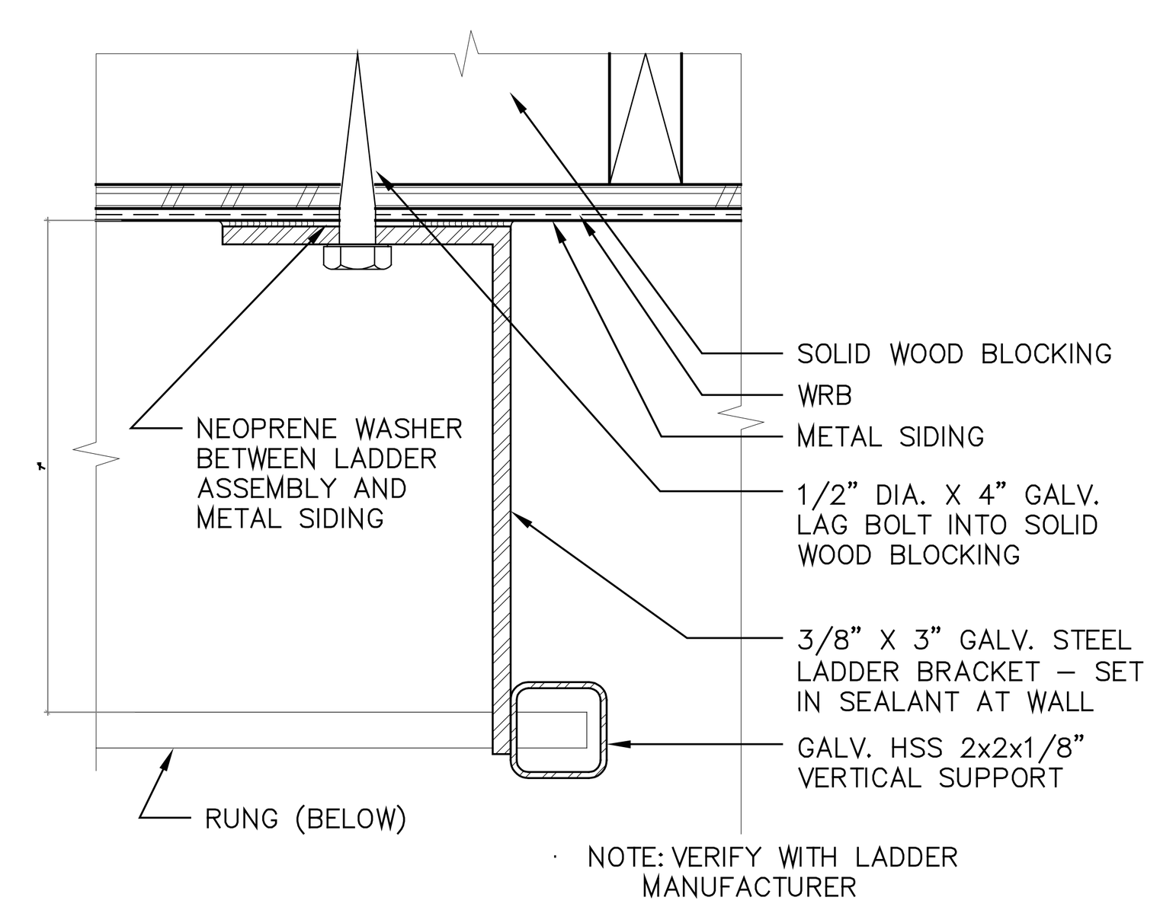
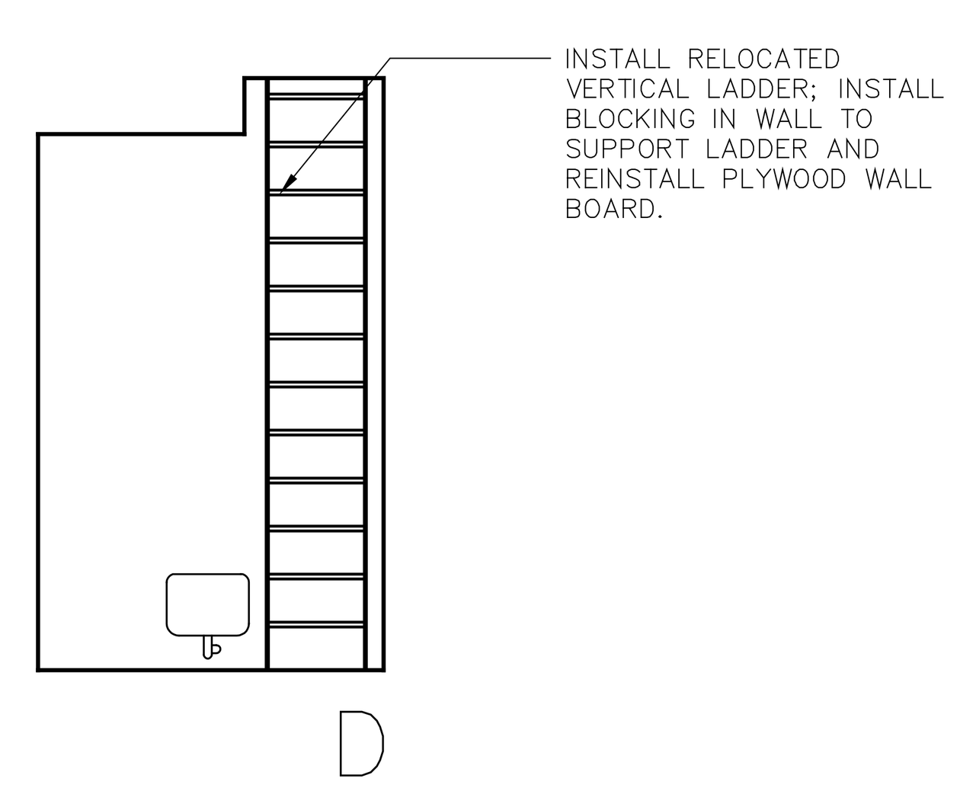


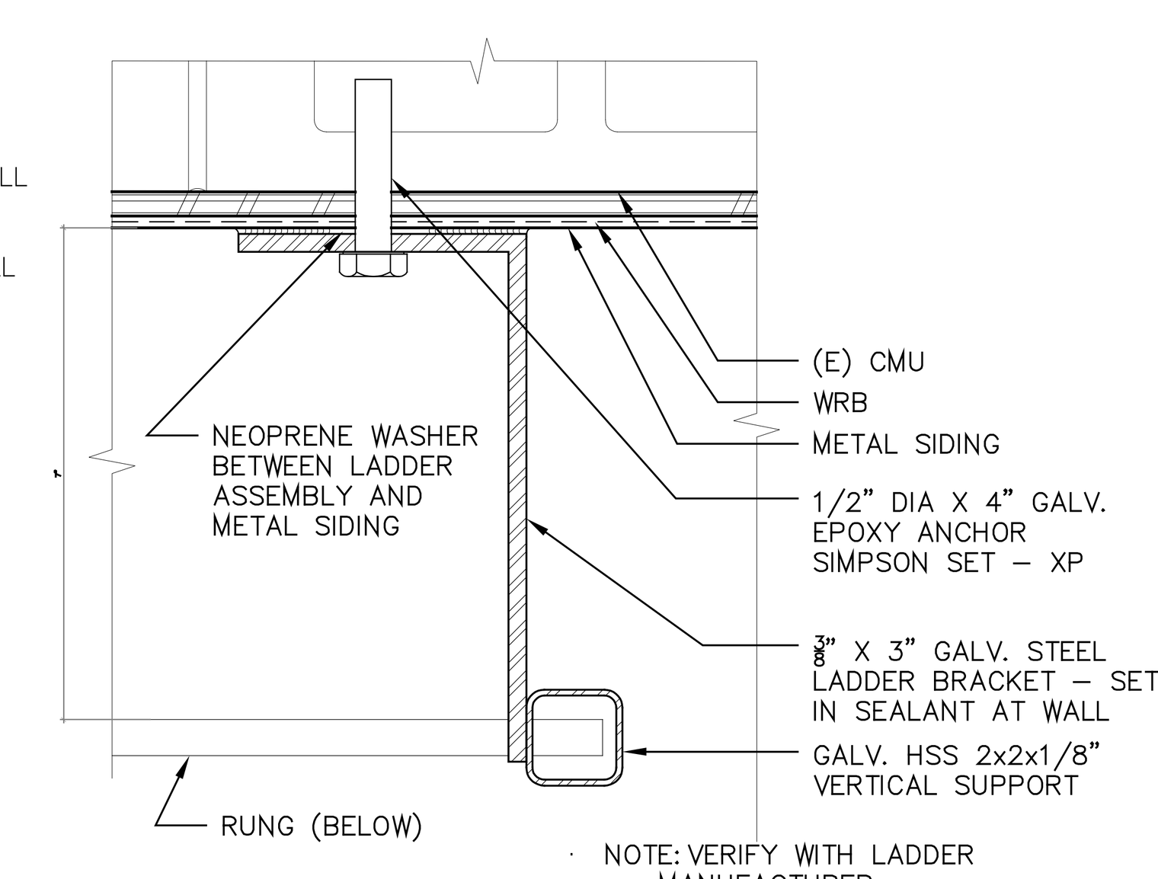
ROOF LADDER DETAIL 12
SCALE: 3" = 1'-0"



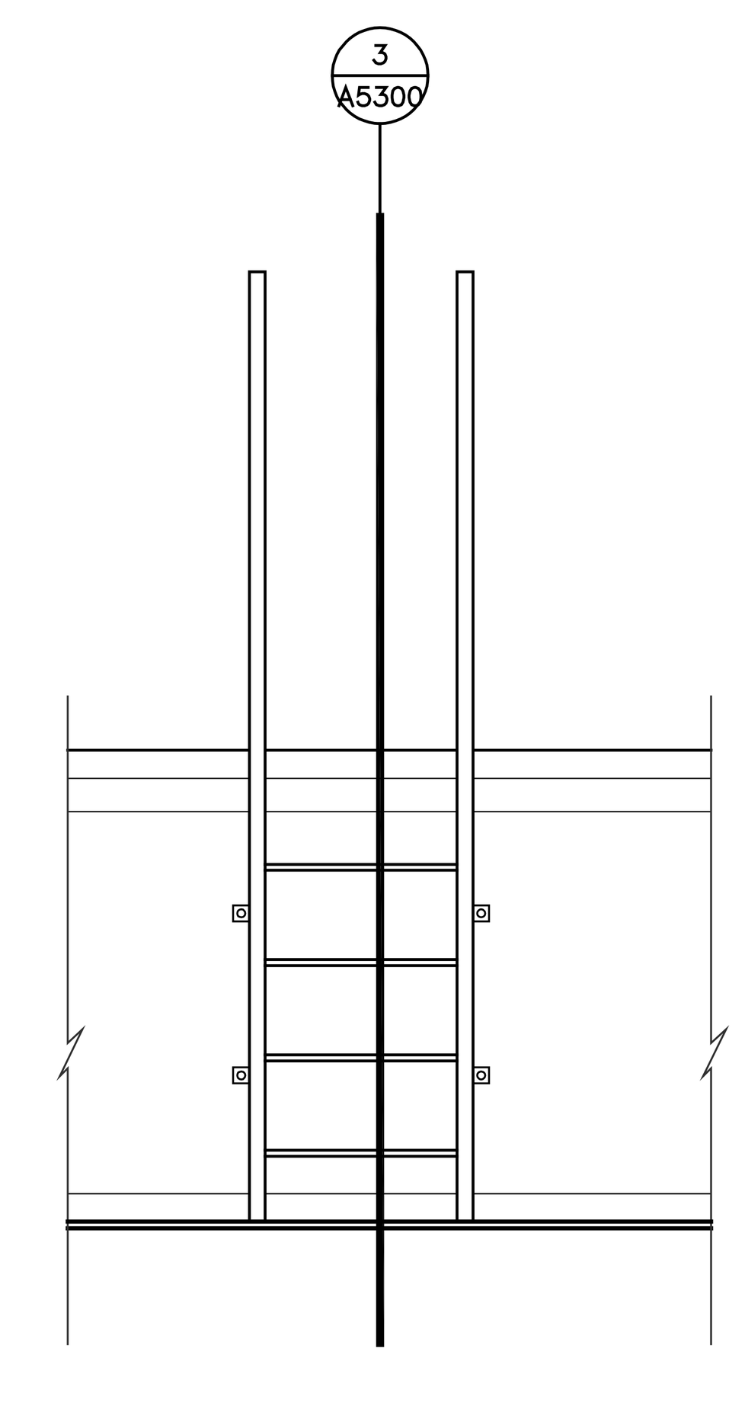
ROOF LADDER DETAIL 7
SCALE: 3" = 1'-0"



CUSTODIAL 11
1/4"=1'-0"



ROOF LADDER DETAIL 6
SCALE: 3" = 1'-0"



LADDER ELEVATION 1
1/2" = 1'-0"

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REGISTERED ARCHITECT
4346
JAMES M. FITZPATRICK
PORTLAND, OREGON
STATE OF OREGON
Digitally signed by James M. Fitzpatrick

phase	Bid Documents
date	February 22, 2019
revisions	
project #	119190

DETAILS

A5300

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TIME: 09:25:31 DATE: 01/15/08 FILENAME: \\File03\projects\McMinnville School District\06067 Memorial ES Add & Ren\1-Project File\Drawings\A810.dwg.DWG

GENERAL STRUCTURAL NOTES

THESE NOTES SHALL STIPULATE THE MINIMUM STANDARDS OF CONSTRUCTION, AND THE DRAWINGS SHALL GOVERN OVER THE NOTES IN ALL MATTERS SPECIFICALLY STATED. VERIFY DIMENSIONS AND EXISTING CONDITIONS, AND NOTIFY ARCHITECT OR ENGINEER OF DISCREPANCIES BEFORE PROCEEDING. THE CONTRACTOR IS RESPONSIBLE FOR SAFE CONDITIONS AT THE JOBSITE, AND FOR TEMPORARY SUPPORT OF THE BUILDING PRIOR TO THE COMPLETION OF THE VERTICAL AND LATERAL LOAD SYSTEMS. ALL WORK SHALL CONFORM TO THE 2010 EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE (OSSC).

DESIGN LOADS:

CLASSROOM AND RESTROOM AREAS FLOOR LIVE LOAD = 40 PSF
CORRIDORS, STAIRS & EXITS LIVE LOAD = 100 PSF
MINIMUM ROOF SNOW LOAD = 25 PSF UNIFORM
BASIC WIND SPEED, Vult = 130 MPH 3-SECOND GUST AND EXPOSURE B

SEISMIC DESIGN CATEGORY D AND SITE CLASS D
- SEISMIC IMPORTANCE FACTOR, Ie = 1.25
- OCCUPANCY CATEGORY III
- MAPPED SPECTRAL RESPONSE ACCELERATIONS Ss = 1.009g AND S1 = .436g
- SPECTRAL RESPONSE COEFFICIENTS SDs = 0.731g AND SD1 = 0.459g
- BSE-1N: Sxs = 0.731 AND Sx1 = 0.455
- BSE-2N: Sxs = 1.006 AND Sx1 = 0.682
- BASIC SEISMIC FORCE RESISTING SYSTEMS:
  - WOOD ROOF DIAPHRAGMS
  - REINFORCED CONCRETE WALLS
  - CONCRETE MASONRY BLOCK WALLS WITH MINIMAL REINFORCING

CONTRACTOR SHALL PREVENT OVERLOADING THE EXISTING ROOF SYSTEM BY EVENLY DISTRIBUTING NEW AND REMOVED MATERIALS. AVOID EXCESSIVE PILING OR STACKING OF MATERIALS BY OFF-LOADING FROM ONE ROOF LEVEL TO ANOTHER. WHERE MATERIALS MUST BE STACKED, CHOOSE AREAS OVER BEARING WALLS TO AVOID OVERLOADING FRAMING MEMBERS.

SPECIAL INSPECTION REQUIRED:

SPECIAL INSPECTION ACCORDING TO THE REQUIREMENTS OF SECTION 1704 OF THE INTERNATIONAL BUILDING CODE SHALL BE REQUIRED AS SPECIFIED IN THE "REQUIRED SPECIAL INSPECTIONS" TABLE ON THIS SHEET.

STRUCTURAL OBSERVATION:

1. STRUCTURAL OBSERVATIONS BY THE ENGINEER OF RECORD (EOR) OR THEIR REPRESENTATIVE SHALL BE REQUIRED AT THE FOLLOWING STAGES DURING CONSTRUCTION:
   -INSTALLATION OF THE PLYWOOD ROOF DIAPHRAGM.
   -AFTER INSTALLATION OF BLOCKING, HARDWARE/CLIPS, PRIOR TO COVERING.
   -INSTALLATION OF ANCHOR BOLTS TO CONCRETE, ANGLES, AND STRAPS.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD (EOR) AT LEAST FOUR (4) CALENDAR DAYS IN ADVANCE OF COMPLETION REQUIRING SITE OBSERVATION.
3. IF ADDITIONAL SITE VISITS OR DESIGN WORK IS REQUIRED BY THE ENGINEER BECAUSE OF INCOMPLETE OR UNACCEPTABLE WORK, THE ENGINEER SHALL BE REIMBURSED FOR ALL TIME AND EXPENSES INVOLVED.

WOOD:

LUMBER GRADES SHALL BE AS FOLLOWS, EXCEPT AS NOTED ON DRAWINGS:

2x FRAMING & BLOCKING	#2 GRADE DOUGLAS FIR
4x FRAMING & BLOCKING	#2 GRADE DOUGLAS FIR
PLATES & SILLS ON CONCRETE	PR. TR. DOUGLAS FIR

SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR CDX. SEE DRAWINGS FOR PANEL INDEX, INSTALLATION, AND NAILING REQUIREMENTS. NAILING INDICATED ON DRAWINGS TO BE WITH COMMON NAILS.

ALL CONNECTORS IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE CORROSION PROTECTED.

FASTENERS AND HANGERS NOTED ON THE DRAWINGS ARE MODEL NUMBERS OF "SIMPSON STRONG-TIE COMPANY, INC." AND MAY BE REPLACED WITH EQUIVALENT MODELS BY OTHER COMPANIES HAVING EQUIVALENT PROPERTIES AND STRENGTHS. INSTALL ALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH NAILING IN ALL AVAILABLE HOLES. SIMPSON OR EQUIVALENT STEEL FASTENERS ATTACHED TO ACQ-TREATED WOOD SHALL HAVE GALVANIZING CONFORMING TO ASTM G185 - SIMPSON PRODUCTS WITH THIS GALVANIZING ARE NOTED AS "ZMAX".

EXISTING WOOD FRAMING MAY BE VERY DRY, HARD, AND EASY TO SPLIT. CONTRACTOR SHALL TAKE CARE NOT TO SPLIT THE EXISTING FRAMING WHEN ADDING FASTENERS AND CONNECTORS. PREDRILLING HOLES MAY BE REQUIRED.

DRILLED ANCHOR BOLTS AND DOWELS:

MECHANICAL ANCHORS IN CONCRETE: THREADED PORTION OF ANCHOR SHALL CONFORM TO ASTM A307 OR GREATER CAPACITY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM DEPTH OF EMBEDMENT SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS BUT SHALL NOT BE LESS THAN 4.5 BOLT DIAMETERS WITHOUT PRIOR APPROVAL. SEE DRAWING FOR DEEPER EMBEDMENT IF REQUIRED. APPROVED SCREW ANCHORS INCLUDE:
- HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES EVALUATION REPORT ESR-3027)
- SIMPSON TITEN HD SCREW ANCHOR (ICC-ES EVALUATION REPORT ESR-2713)

ADHESIVE ANCHORS IN CONCRETE: THREADED ROD PORTION OF ANCHOR SHALL CONFORM TO ASTM A307 OR GREATER CAPACITY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM DEPTH OF EMBEDMENT SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS BUT SHALL NOT BE LESS THAN 8 BOLT DIAMETERS WITHOUT PRIOR APPROVAL. SEE DRAWINGS FOR DEEPER EMBEDMENT IF REQUIRED. APPROVED PRODUCTS INCLUDE:
- HILTI HIT-RE 500 SD ADHESIVE SYSTEM (ICC-ES EVALUATION REPORT ESR-2322)
- SIMPSON SET-XP ADHESIVE ANCHOR (ICC-ES EVALUATION REPORT ESR-2508)

ADHESIVE ANCHORS IN GROUTED MASONRY: THREADED ROD PORTION OF ANCHOR SHALL CONFORM TO ASTM A307 OR GREATER CAPACITY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM DEPTH OF EMBEDMENT SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS BUT SHALL NOT BE LESS THAN 8 BOLT DIAMETERS WITHOUT PRIOR APPROVAL. SEE DRAWINGS FOR DEEPER EMBEDMENT IF REQUIRED. ANCHORS SHALL BE INSTALLED ONLY IN FULLY GROUTED HOLLOW MASONRY CELLS. OBSERVE MINIMUM EDGE REQUIREMENTS OF ANCHOR FROM EDGE OF GROUTED ELEMENTS. APPROVED PRODUCTS INCLUDE:
- HILTI HIT-HY 70 ADHESIVE ANCHOR (ICC-ES ESR-2682)
- SIMPSON SET-XP ADHESIVE ANCHOR (IAPMO UES ER-265)

STRUCTURAL STEEL:

STRUCTURAL BEAMS SHALL CONFORM TO ASTM A992 GRADE 50 (BEAMS 2"T" AND DEEPER CAN BE ASTM A36). MISCELLANEOUS SHAPES AND PLATES SHALL CONFORM TO ASTM A36. PIPE COLUMNS SHALL CONFORM TO ASTM A53 GRADE B (35 KSI). STEEL TUBES SHALL CONFORM TO ASTM A500 GRADE B (46 KSI). BOLTS SHALL CONFORM TO ASTM A307 AND SHALL HAVE STANDARD CUT WASHERS WHERE BEARING ON WOOD (INCLUDING FOUNDATION ANCHOR BOLTS). DETAIL AND FABRICATE ALL STEEL MEMBERS ACCORDING TO AISC STANDARDS. ALL WELDING SHALL CONFORM TO AWS STANDARDS. PROVIDE ONE SHOP COAT OF PRIMER ON ALL STEEL MEMBERS AFTER FABRICATION. STEEL STUDS SHALL BE 50 KSI YIELD POINT STEEL CONFORMING TO REQUIREMENTS OF AISC SPECIFICATION FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.

STEEL ERECTOR SHALL BE RESPONSIBLE TO CONFIRM THAT THE CONNECTIONS AND ERECTION METHODS COMPLY WITH OSHA STEEL ERECTION REQUIREMENTS.

GALVANIZED STEEL:

ALL STEEL MEMBERS NOTED AS GALVANIZED, OR WHERE EXPOSED (LOCATED OUTSIDE OF BUILDING SKIN) SHALL BE SHOP GALVANIZED AFTER FABRICATION WITH 2.0 MIL ZINC COATING IN ACCORDANCE WITH ASTM A123/A123M.

REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION: IBC CODE REFERENCE	INSPECTION: CODE or STANDARD REFERENCE	FREQUENCY: Continuous	FREQUENCY: Periodic	REMARKS
FABRICATORS					
				X	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS.
STEEL					
FABRICATION OF STRUCTURAL ELEMENTS	1704.2			X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1704.3 2203.1	ASTM A6 AISC ASD A3.1a AISC LRFD A3.1a		X	GENERAL VERIFICATION OF STEEL TYPE USED
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1704.3	AISC ASD A3.5 AISC LRFD A3.4		X	MANUFACTURER'S CERTIFIED TEST REPORTS
WELDING					
VERIFICATION OF WELD FILLER	1704.3	AISC 360 A3.5			MANUFACTUR'S CERTIFICATE OF COMPLIANCE REQUIRED
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1704.3	AWS D1.1		X	SINGLE-PASS FILLET WELDS <= 5/16"
POST INSTALLED CONCRETE ANCHORS					
INSTALLATION	1703.4.2 1704.13.3	ICC EVALUATION REPORT		X	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE
WOOD					
MATERIAL VERIFICATION OF STRUCTURAL PANELS AND NAILS FOR DIAPHRAGMS AND SHEAR WALLS	1704.6.1			X	PRIOR TO COVER
VERIFICATION OF FRAMING SIZE AT DIAPHRAGM AND SHEAR WALL PANEL EDGES				X	PRIOR TO COVER

LEGEND

- (A) — BEARING WALL TYPE - SEE BEARING WALL SCHEDULE
- (2) — SHEARWALL TYPE - SEE SHEARWALL SCHEDULE
- (A) — FOOTING SIZE - SEE FOOTING SCHEDULE
- (2) — COLUMN SIZE - SEE COLUMN SCHEDULE
- (2) — REVISION NUMBER
- (ELEVATION) — WORK POINT
- SECTION MARK: SECTION NUMBER / SHEET NUMBER (1 / S1.1)
- ELEVATION MARK: ELEVATION NUMBER / SHEET NUMBER (1 / S1.1)
- DETAIL MARK: DETAIL NUMBER / SHEET NUMBER (1 / S1.1)
- FOOTING SIZE / COLUMN SIZE (1 / A)

ABBREVIATIONS

#	— NUMBER OR POUNDS	HORIZ.	— HORIZONTAL
&	— AND	HT.	— HEIGHT
@	— AT	HYD.	— HYDROGEN
℄	— CENTER LINE	I.S.F.	— INSIDE FACE
L	— LINTEL	JST.	— JOIST
ℙ	— PLATE	JT.	— JOINT
ϕ	— DIAMETER OR ROUND	lbs.	— POUNDS
□	— SQUARE	LDGR.	— LEDGER
(E)	— EXISTING	L.S.L.	— LAMINATED STRAND LUMBER
(N)	— NEW	LVL.	— LAMINATED VENEER LUMBER
A.B.	— ANCHOR BOLT	L.H.	— LOW HYDROGEN
ADH.	— ADHESIVE	M.B.	— MACHINE BOLT
ANCH.	— ANCHOR	MBR.	— MEMBER
ARCH.	— ARCHITECT	MANUF.	— MANUFACTURER
BD.	— BOARD	MAS.	— MASONRY
BLD'G.	— BUILDING	MAX.	— MAXIMUM
BLK'G.	— BLOCKING	MIN.	— MINIMUM
BOT.	— BOTTOM	MISC.	— MISCELLANEOUS
C.J.	— CONTROL JOINT	NTS	— NOT TO SCALE
CLG.	— CEILING	NO.	— NUMBER
CLR.	— CLEAR	O/C	— ON CENTER
CTSK.	— COUNTERSINK	OPP.	— OPPOSITE
COL.	— COLUMN	OPP. HD.	— OPPOSITE HAND
CONC.	— CONCRETE	OPNG.	— OPENING
CONN.	— CONNECTION	O.S.B.	— ORIENTED STRAND BOARD
CONT.	— CONTINUOUS	O.S.F.	— OUTSIDE FACE
C.S.	— CLOSURE STRIP	PSL	— PARALLEL STRAND LUMBER
CTRL.	— CONTROL	PEN.	— PENETRATION
c/c	— CENTER TO CENTER	PL.(S).	— PLATE(S)
D.A.	— DRILLED ANCHOR	PLY'D.	— PLYWOOD
DBL.	— DOUBLE	P.T. or PR. TR.	— PRESSURE TREATED
DIA.	— DIAMETER	REF.	— REFERENCE
DN.	— DOWN	REINF.	— REINFORCING
DTL.	— DETAIL	REQ'D.	— REQUIRED
DWG.	— DRAWING	RF.	— ROOF
EA.	— EACH	S.J.	— SAWCUT JOINT
EW.	— EACH WAY	SHT'G.	— SHEATHING
EL.	— ELEVATION	SIM.	— SIMILAR
ENG.	— ENGINEER	STD.	— STANDARD
EQ.	— EQUAL	STL.	— STEEL
E.J.	— EXPANSION JOINT	T℄B	— TOP AND BOTTOM
EXT.	— EXTERIOR	T℄G	— TONGUE AND GROOVE
F.B.	— FLAT BAR	TBRSTRND.	— TIMBERSTRAND
FLR.	— FLOOR	T.O.C.	— TOP OF CONCRETE
FNDN.	— FOUNDATION	T.O.F.	— TOP OF FOOTING
F.O.C.	— FACE OF CONCRETE	T.O.S.	— TOP OF STEEL
F.O.S.	— FACE OF STUD	TOT.	— TOTAL
F.O.M.	— FACE OF MASONRY	T.O.W.	— TOP OF WALL
FTG.	— FOOTING	T.S.	— STRUCTURAL TUBE
GA.	— GAUGE	TYP.	— TYPICAL
GALV.	— GALVANIZED	U.N.O.	— UNLESS NOTED OTHERWISE
GLB. or GL.	— GLUE LAMINATED BEAM	VERT.	— VERTICAL
G.S.B.	— GYPSUM SHEATHING BOARD	W/	— WITH
G.W.B.	— GYPSUM WALL BOARD	W/O	— WITHOUT
GYP.	— GYPSUM	WT.	— WEIGHT
HNGR.	— HANGER	WWF	— WELDED WIRE FABRIC
H.S.S.	— HOLLOW STRUCTURAL SECTION		

LINE DEFINITION

(ON FRAMING PLANS)

- (SOLID WALL) - INDICATES WALLS ABOVE
- (TINY DOTS) - INDICATES WALLS BELOW (NON-BEARING)
- (DASHED) - INDICATES WALLS BELOW (BEARING)

MATERIAL DEFINITION

- CONCRETE
- SAND OR GROUT
- EARTH
- CONC. MASONRY UNITS or BRICK VENEER
- STEEL
- GRAVEL
- FOUNDATION INSULATION

DRAWING INDEX

REROOFING NARRATIVE

THIS IS A REROOFING PROJECT FOR BEAVERTON SCHOOLS THAT ENCOMPASSES VARIOUS ROOF AREAS OF THIS SCHOOL. MINOR "ROOF LEVEL ONLY" LATERAL UPGRADES WERE ELECTED TO BE PERFORMED DURING THIS PROJECT. COMPLETE LOAD PATH FROM ROOF DIAPHRAGMS THROUGH SHEAR WALLS TO FOUNDATION HAVE NOT BEEN UPDATED AT THIS TIME. PROJECT ALSO INCLUDED SEISMIC ATTACHMENT OF MECHANICAL UNITS THAT ARE MOVED DURING THE PROCESS, NEW FALL PROTECTION DEVICES, AND ROOF LADDER UPGRADES.

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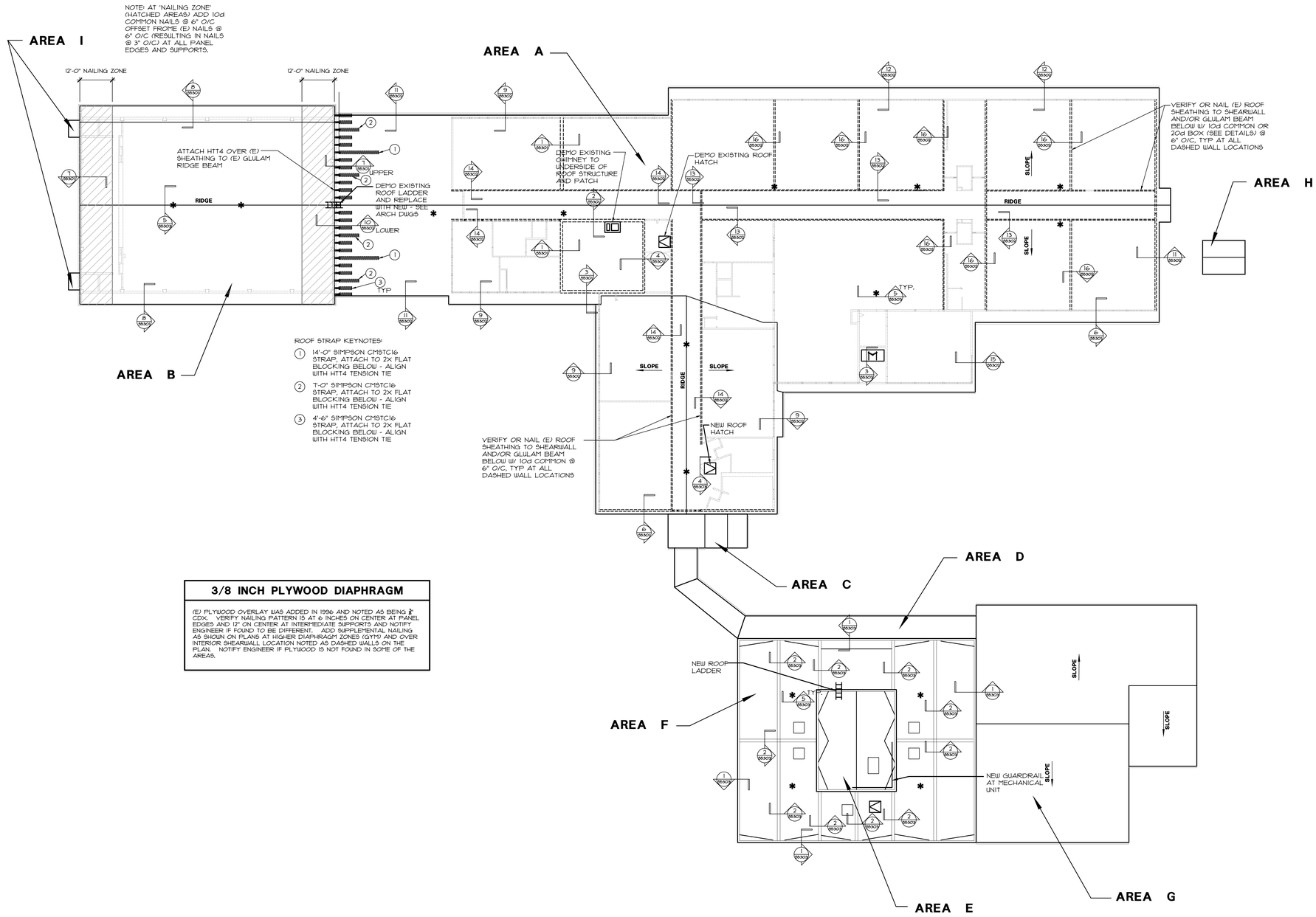
Web: www.jgpierson.com

STRUCTURAL — REGISTERED PROFESSIONAL ENGINEER — 18346PE — OREGON — March 19, 1982 — PRESTON R. GOLDBECK

EXPIRES: 6-30-19

phase	Bid Documents
date	February 22, 2019
revisions	
project #	119190

S1101



3/8 INCH PLYWOOD DIAPHRAGM

(E) PLYWOOD OVERLAY WAS ADDED IN 1996 AND NOTED AS BEING ⅜" CDX. VERIFY NAILING PATTERN IS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS AND NOTIFY ENGINEER IF FOUND TO BE DIFFERENT. ADD SUPPLEMENTAL NAILING AS SHOWN ON PLANS AT HIGHER DIAPHRAGM ZONES (GYM) AND OVER INTERIOR SHEARWALL LOCATION NOTED AS DASHED WALLS ON THE PLAN. NOTIFY ENGINEER IF PLYWOOD IS NOT FOUND IN SOME OF THE AREAS.

ROOF PLAN

SCALE: 1/16" = 1'-0"

NORTH

LEGEND

- SLEEPER CURBS W/ EQUIPMENT OVER ROOF
- CURBED MECHANICAL UNIT
- CURBED ROOF ACCESS HATCH
- CURBED SKYLIGHT
- ROOF ACCESS LADDER - SEE ARCH DWGS
- MASONRY CHIMNEY
- SCREEN WALL
- NEW FALL ARREST ANCHOR (TYPICAL OF 15) SEE 5/S5303 FOR DETAIL

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Web: www.jgpierson.com

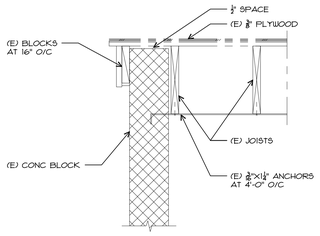
STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
18346PE
OREGON
March 19, 1996
PETER R. GOLBERG

EXPIRES: 6-30-19

phase	Bid Documents
date	February 22, 2019
revisions	

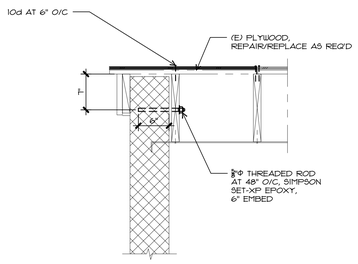
project # 119190

S1401



1E S5301 N.W. WALL BLR. RM. MASONRY ANCHOR DETAIL

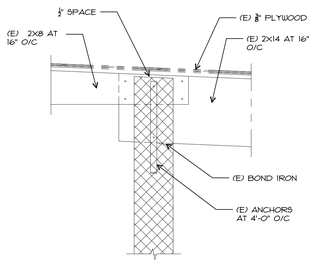
1" = 1'-0"



NOTE: ANCHOR TO BE INSTALLED 12" MIN FROM ADJACENT WALL.

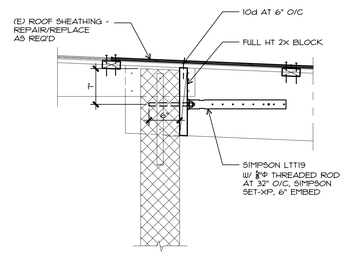
1 S5301 N.W. WALL BLR. RM. MASONRY ANCHOR DETAIL

1" = 1'-0"



2E S5301 N.E. WALL BLR. RM. MASONRY ANCHOR DETAIL

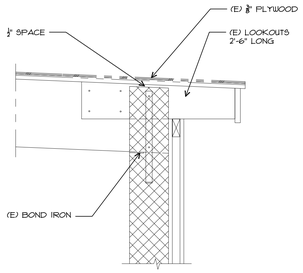
1" = 1'-0"



NOTE: ANCHORS TO BE INSTALLED 12" MIN FROM ADJACENT WALL.

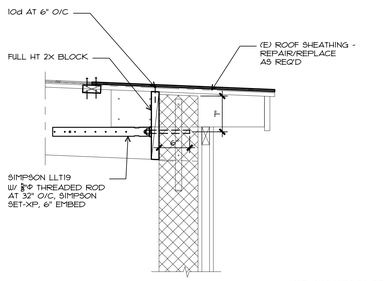
2 S5301 N.E. WALL BLR. RM. MASONRY ANCHOR DETAIL

1" = 1'-0"



3E S5301 S.W. WALL BLR. RM. MASONRY ANCHOR DETAIL

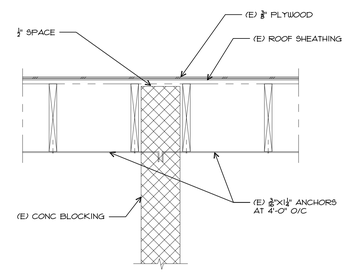
1" = 1'-0"



NOTE: ANCHORS TO BE INSTALLED 12" MIN FROM ADJACENT WALL.

3 S5301 S.W. WALL BLR. RM. MASONRY ANCHOR DETAIL

1" = 1'-0"



4E S5301 S.E. WALL BLR. RM. MASONRY ANCHOR DETAIL

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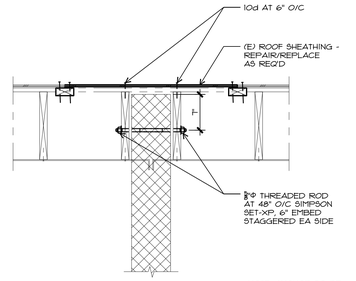


NOTE: ANCHOR TO BE INSTALLED 12" MIN FROM ADJACENT WALL.

4 S5301 S.E. WALL BLR. RM. MASONRY ANCHOR DETAIL

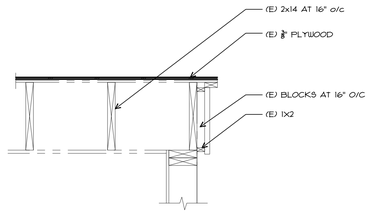
1" = 1'-0"

5E S5301 NOT USED

1" = 1'-0"

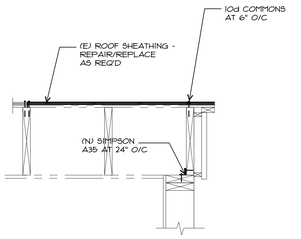
5 S5301 NOT USED

1" = 1'-0"



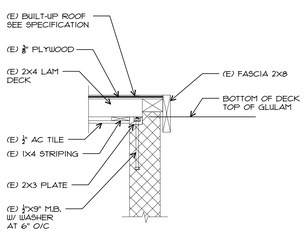
6E S5301 RAKE CORNICE

1" = 1'-0"



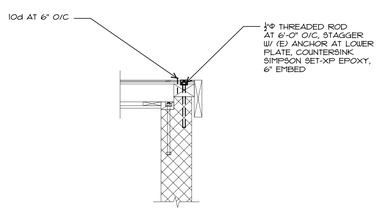
6 S5301 RAKE CORNICE

1" = 1'-0"



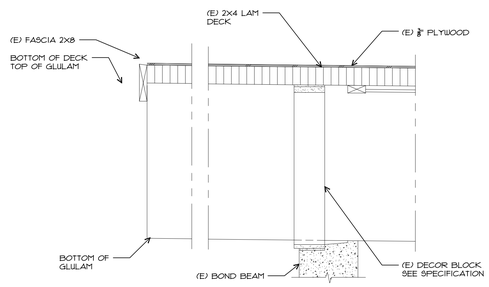
7E S5301 EAVE DETAIL

1" = 1'-0"



7 S5301 EAVE DETAIL

1" = 1'-0"



8E S5301 EAVE DETAIL

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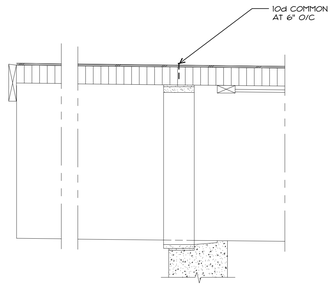

8 S5301 EAVE DETAIL

1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 18346PE OREGON May 20, 1986 PETER R. GOLDBERG

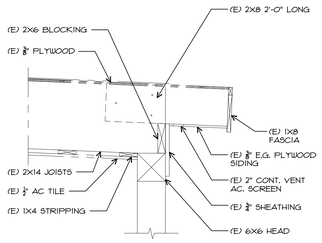
EXPIRES: 6-30-19

phase	Bid Documents
date	February 22, 2019
revisions	

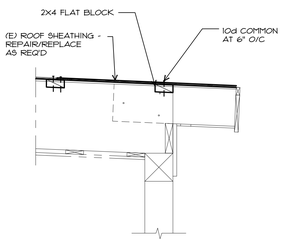
project # 119190

STRUCTRUAL DETAILS

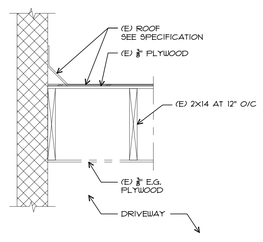
S5301



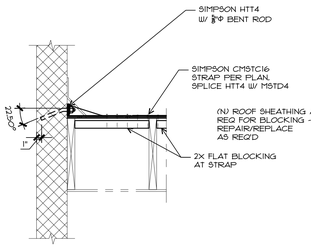
9E S5302 **EAVE DETAIL**
1" = 1'-0"



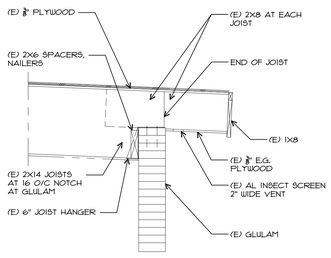
9 S5302 **EAVE DETAIL**
1" = 1'-0"



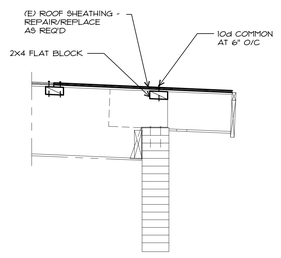
10E S5302 **CANT FLASHING**
1" = 1'-0"



10 S5302 **CANT FLASHING**
1" = 1'-0"



11E S5302 **EAVE DETAIL AT GLULAM**
1" = 1'-0"



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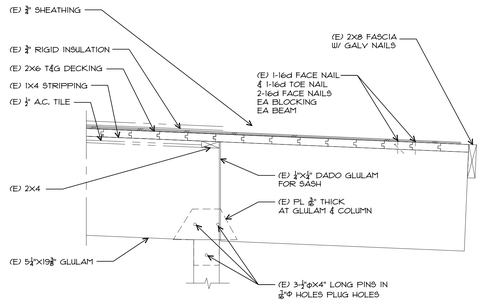
1" = 1'-0"



12E S5302 **EAVE DETAIL AT GLULAM**
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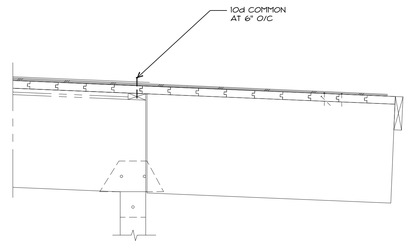

12 S5302 **EAVE DETAIL AT GLULAM**
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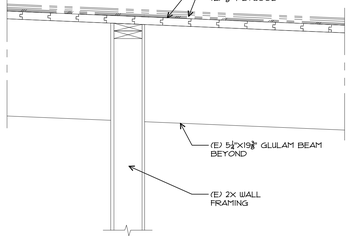
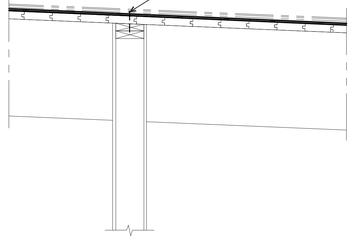


13E S5302 **EAVE & BEAM CONNECTION DETAIL**
1" = 1'-0"



13 S5302 **EAVE & BEAM CONNECTION DETAIL**
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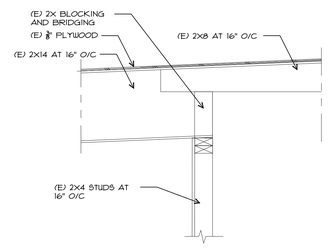
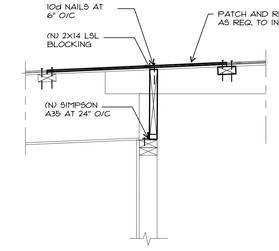
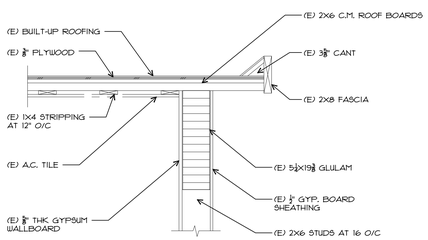


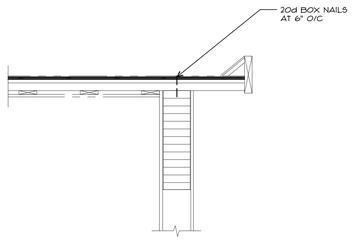
14E S5302 **CORRIDOR WALL**
1" = 1'-0"



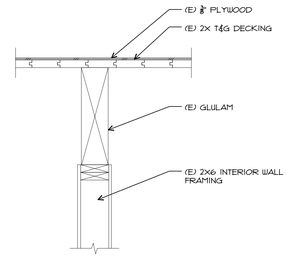
14 S5302 **CORRIDOR WALL**
1" = 1'-0"



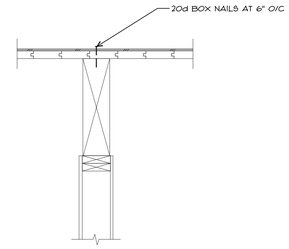
15E S5302 **ROOF-SIDE OVERHANG**
1" = 1'-0"



15 S5302 **ROOF-SIDE OVERHANG**
1" = 1'-0"



16E S5302 **DETAIL**
1" = 1'-0"



16 S5302 **DETAIL**
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
18346PE
OREGON
January 19, 1986
PEDER R. GOLBERG
EXPIRES: 6-30-19

phase	Bid Documents
date	February 22, 2019
revisions	

project # 119190

STRUCTRUAL DETAILS

S5302

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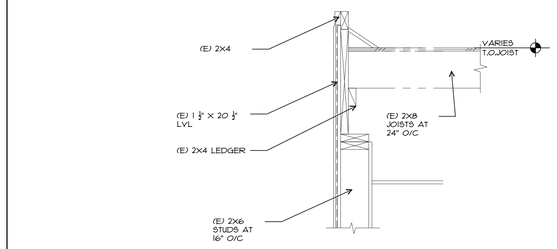
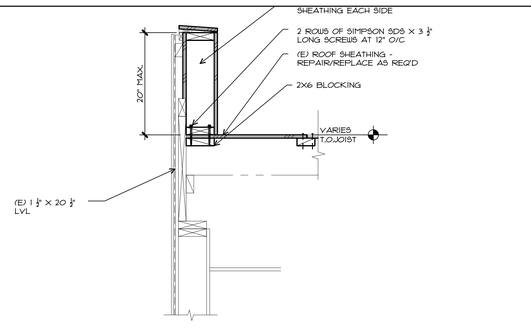
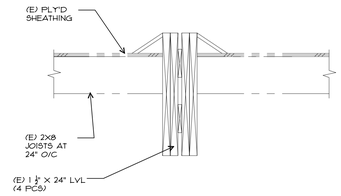


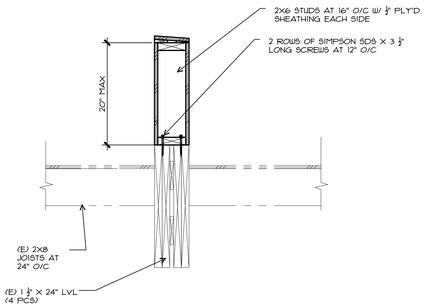
1E S5303 **PARAPET WALL**
1" = 1'-0"



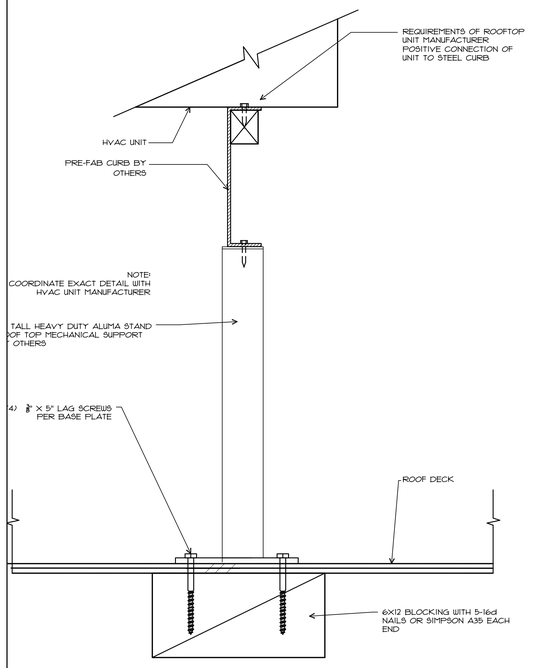
1 S5303 **PARAPET WALL**
1" = 1'-0"



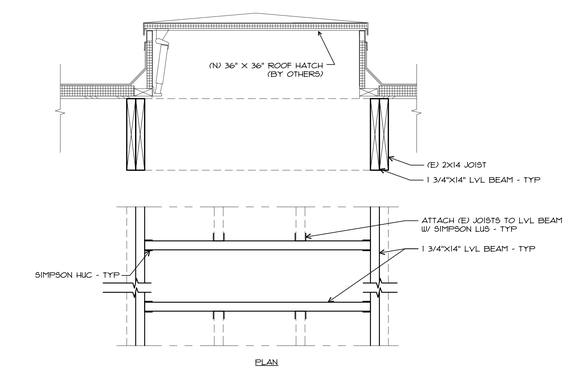
2E S5303 **DIVIDING WALL**
1" = 1'-0"



2 S5303 **DIVIDING WALL**
1" = 1'-0"

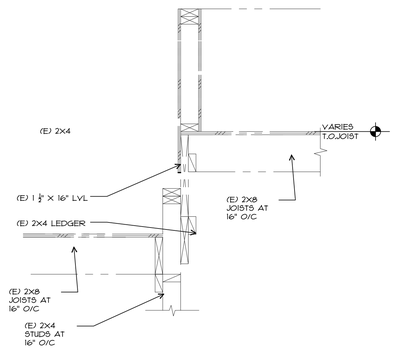


3 S5303 **MECHANICAL UNIT**
3" = 1'-0"

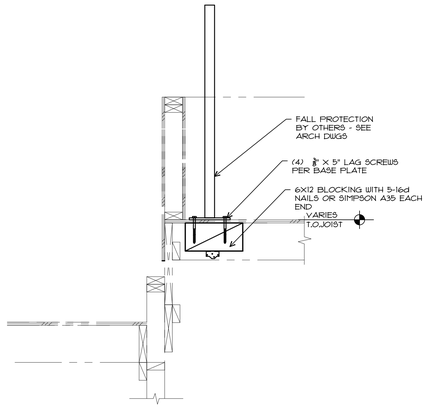


PLAN

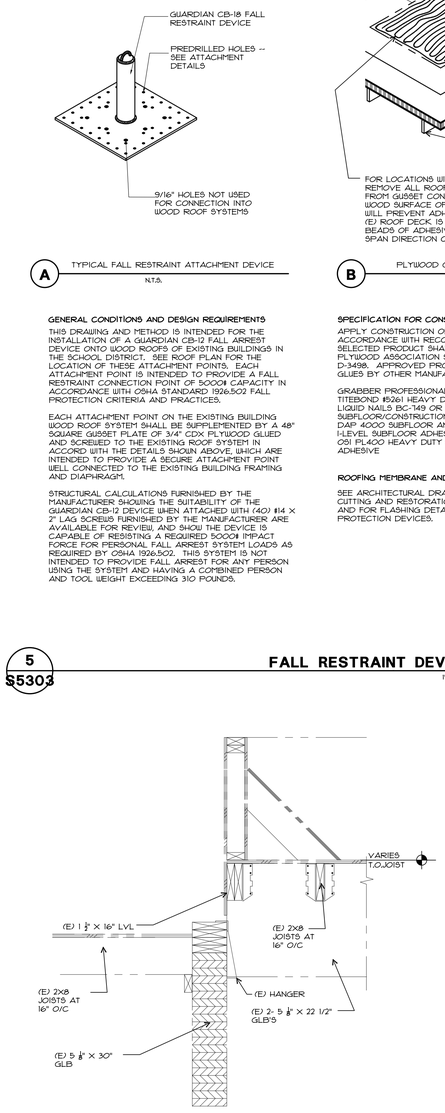
4 S5303 **ROOF-SIDE OVERHANG**
1" = 1'-0"



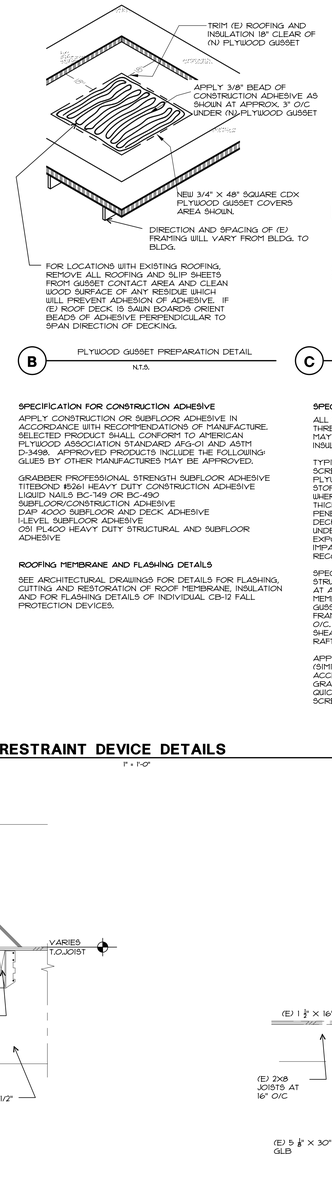
6E S5303 **PARAPET WALL**
1" = 1'-0"



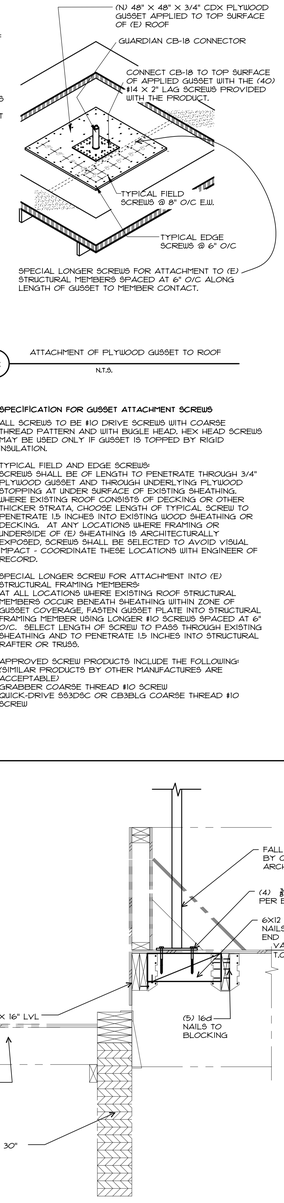
6 S5303 **PARAPET WALL**
1" = 1'-0"



A TYPICAL FALL RESTRAINT ATTACHMENT DEVICE
N.T.S.



B PLYWOOD GUSSET PREPARATION DETAIL
N.T.S.



C ATTACHMENT OF PLYWOOD GUSSET TO ROOF
N.T.S.

GENERAL CONDITIONS AND DESIGN REQUIREMENTS

THIS DRAWING AND METHOD IS INTENDED FOR THE INSTALLATION OF A GUARDIAN CB-12 FALL ARREST DEVICE ONTO WOOD ROOFS OF EXISTING BUILDINGS IN THE SCHOOL DISTRICT. SEE ROOF PLAN FOR THE LOCATION OF THESE ATTACHMENT POINTS. EACH ATTACHMENT POINT IS INTENDED TO PROVIDE A FALL RESTRAINT CONNECTION POINT OF 5000# CAPACITY IN ACCORDANCE WITH OSHA STANDARD 1926.502 FALL PROTECTION CRITERIA AND PRACTICES.

EACH ATTACHMENT POINT ON THE EXISTING BUILDING WOOD ROOF SYSTEM SHALL BE SUPPLEMENTED BY A 48" SQUARE GUSSET PLATE OF 3/4" CDX PLYWOOD GLUED AND SCREWED TO THE EXISTING ROOF SYSTEM IN ACCORD WITH THE DETAILS SHOWN ABOVE, WHICH ARE INTENDED TO PROVIDE A SECURE ATTACHMENT POINT WELL CONNECTED TO THE EXISTING BUILDING FRAMING AND DIAPHRAGM.

STRUCTURAL CALCULATIONS FURNISHED BY THE MANUFACTURER SHOWING THE SUITABILITY OF THE GUARDIAN CB-12 DEVICE WHEN ATTACHED WITH (40) #14 X 2" LAG SCREWS FURNISHED BY THE MANUFACTURER ARE AVAILABLE FOR REVIEW, AND SHOW THE DEVICE IS CAPABLE OF RESISTING A REQUIRED 5000# IMPACT FORCE FOR PERSONAL FALL ARREST SYSTEM LOADS AS REQUIRED BY OSHA 1926.502. THIS SYSTEM IS NOT INTENDED TO PROVIDE FALL ARREST FOR ANY PERSON USING THE SYSTEM AND HAVING A COMBINED PERSON AND TOOL WEIGHT EXCEEDING 310 POUNDS.

SPECIFICATION FOR CONSTRUCTION ADHESIVE

APPLY CONSTRUCTION OR SUBFLOOR ADHESIVE IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURE. SELECTED PRODUCT SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION STANDARD AFG-01 AND ASTM D-3498. APPROVED PRODUCTS INCLUDE THE FOLLOWING: GLUES BY OTHER MANUFACTURES MAY BE APPROVED.

GRABBER PROFESSIONAL STRENGTH SUBFLOOR ADHESIVE
TITEBOND #5261 HEAVY DUTY CONSTRUCTION ADHESIVE
LIQUID NAILS BC-749 OR BC-490
SUBFLOOR/CONSTRUCTION ADHESIVE
DAP 4000 SUBFLOOR AND DECK ADHESIVE
H-LEVEL SUBFLOOR ADHESIVE
OSI PL400 HEAVY DUTY STRUCTURAL AND SUBFLOOR ADHESIVE

ROOFING MEMBRANE AND FLASHING DETAILS

SEE ARCHITECTURAL DRAWINGS FOR DETAILS FOR FLASHING, CUTTING AND RESTORATION OF ROOF MEMBRANE, INSULATION AND FOR FLASHING DETAILS OF INDIVIDUAL CB-12 FALL PROTECTION DEVICES.

SPECIFICATION FOR GUSSET ATTACHMENT SCREWS

ALL SCREWS TO BE #10 DRIVE SCREWS WITH COARSE THREAD PATTERN AND WITH BUGLE HEAD, HEX HEAD SCREWS MAY BE USED ONLY IF GUSSET IS TOPPED BY RIGID INSULATION.

TYPICAL FIELD AND EDGE SCREWS:
SCREWS SHALL BE OF LENGTH TO PENETRATE THROUGH 3/4" PLYWOOD GUSSET AND THROUGH UNDERLYING PLYWOOD STOPPING AT UNDER SURFACE OF EXISTING SHEATHING. WHERE EXISTING ROOF CONSISTS OF DECKING OR OTHER THICKER STRATA, CHOOSE LENGTH OF TYPICAL SCREW TO PENETRATE 1.5 INCHES INTO EXISTING WOOD SHEATHING OR DECKING. AT ANY LOCATIONS WHERE FRAMING OR UNDERSIDE OF (E) SHEATHING IS ARCHITECTURALLY EXPOSED, SCREWS SHALL BE SELECTED TO AVOID VISUAL IMPACT - COORDINATE THESE LOCATIONS WITH ENGINEER OF RECORD.

SPECIAL LONGER SCREW FOR ATTACHMENT INTO (E) STRUCTURAL FRAMING MEMBERS:
AT ALL LOCATIONS WHERE EXISTING ROOF STRUCTURAL MEMBERS OCCUR BENEATH SHEATHING WITHIN ZONE OF GUSSET COVERAGE, FASTEN GUSSET PLATE INTO STRUCTURAL FRAMING MEMBER USING LONGER #10 SCREWS SPACED AT 6" O/C. SELECT LENGTH OF SCREW TO PASS THROUGH EXISTING SHEATHING AND TO PENETRATE 1.5 INCHES INTO STRUCTURAL RAFTER OR TRUSS.

APPROVED SCREW PRODUCTS INCLUDE THE FOLLOWING: (SIMILAR PRODUCTS BY OTHER MANUFACTURERS ARE ACCEPTABLE)
GRABBER COARSE THREAD #10 SCREW
QUICK-DRIVE SS#30SC OR CB38LG COARSE THREAD #10 SCREW

5 S5303 **FALL RESTRAINT DEVICE DETAILS**
1" = 1'-0"

7E S5303 **PARAPET WALL**
1" = 1'-0"

7 S5303 **DIVIDING WALL**
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 18346PE OREGON Renews 19, 1995 REDER R. GOLBERG
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revisions	

project # 119190

STRUCTRUAL DETAILS

S5303

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