FAIRMONT, LIBERTY 3
SALT LAKE GRANITE STAKE
RE-ROOF & SEISMIC UPGRADE

2465 SOUTH 800 EAST
SALT LAKE CITY, UTAH
PROPERTY #506790112030101

FEBRUARY 2019

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FAIRMONT, LIBERTY 3
The Church of Jesus Christ of Latter-day Saints

SALT LAKE GRANITE STAKE
2465 SOUTH 800 EAST
SALT LAKE CITY, UTAH

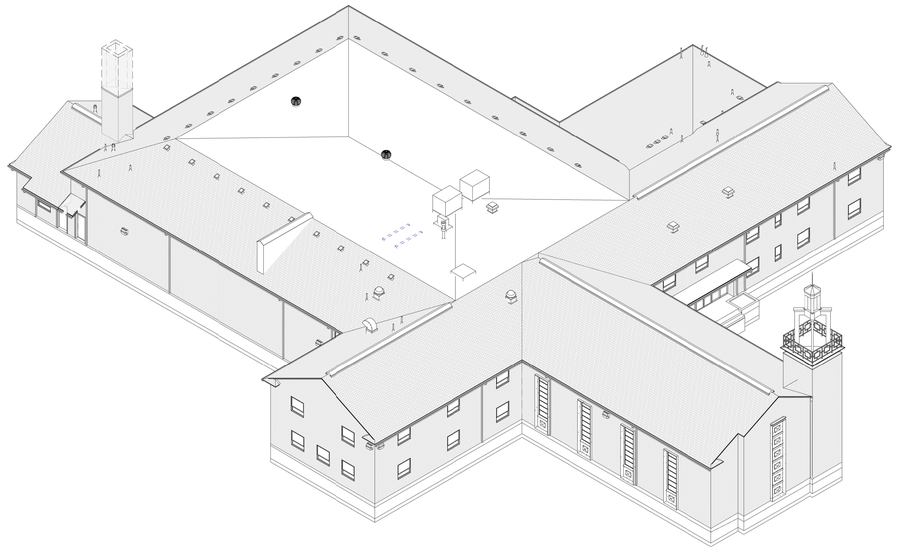
REVISIONS

DATE	DESCRIPTION

PROJECT NO.	13061
DRAWN BY	DTS/MGS
CHECKED BY	CEG
DATE	8 FEBRUARY 2019
PROP. NO.	506790112030101

COVER SHEET

G1.00



NORTH WEST ISOMETRIC VIEW

SCALE:

GENERAL NOTES:

1. CONTRACTOR MUST VISIT THE SITE SO AS TO BE FAMILIAR WITH ALL EXISTING CONDITIONS BEFORE SUBMITTING BID, BRING ANY QUESTIONS OR CONCERNS TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION, FOR ADDENDUM PRIOR TO BID OPENING. NO ALLOWANCES WILL BE MADE FOR CONDITIONS THAT ARE CLEARLY VISIBLE.

2. CONTRACTOR SHALL WORK WITH LOCAL REPRESENTATIVE ON SCHEDULING TO INSURE CONTINUED USE OF THE BUILDING. NEITHER THE CONTRACTOR NOR ANY OF HIS PEOPLE SHALL HAVE ACCESS TO THE BUILDING WITHOUT PRIOR AUTHORIZATION.

3. ALL SAFETY STANDARDS AND REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4. EXISTING ROOF PENETRATIONS WILL BE FLASHED AND PAINTED.

5. ALL EXISTING ROOF VENTS, MECHANICAL UNITS, ROOF HATCHES, ETC. WILL BE A MINIMUM OF 10" ABOVE THE FINISHED ROOF.

6. ALL NEW METAL WILL BE GALVANIZED OR PRE-FINISHED. CAULKING WILL BE SAME COLOR AS METAL.

7. BEFORE FABRICATION OF ANY SHEET METAL WORK, SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. ALL WORK TO CONFORM TO NRCA OR SMACNA DETAILS AND REQUIREMENTS WHERE NOT SPECIFICALLY DETAILED OTHERWISE.

8. COMPLY WITH ALL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

9. CONTRACTOR RESPONSIBLE TO KEEP BUILDING WATERTIGHT AT ALL TIMES. STARTING FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION ANY DAMAGE TO THE BUILDING OR ITS CONTENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. CONTRACTOR TO CHECK ALL MECHANICAL EQUIPMENT BEFORE DISCONNECTING TO MAKE SURE THEY ARE OPERATING PROPERLY, CONTRACTOR IS ALSO RESPONSIBLE FOR UNITS TO BE IN COMPLETE OPERATING CONDITION AT THE COMPLETION OF THE PROJECT. COORDINATE SHUTDOWN WITH USERS.

11. GUTTERS AND DOWNSPOUTS:
    a. RIVETS & SCREWS TO BE PAINTED SAME COLOR (NO SPRAY PAINT)
    b. USE POP RIVETS AT ALL CONNECTIONS FROM GUTTERS TO DOWNSPOUTS.
    c. SPLASH BLOCKS TO BE UNDER EVERY OPEN DOWNSPOUT - CHECK EXISTING SITE. PROVIDE NEW CONCRETE SPLASH BLOCK AT ALL OPEN DOWNSPOUTS.
    d. ALL JOINTS TO BE SEALED WATER TIGHT.

12. BEFORE ORDERING ANY MATERIALS, VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. **DO NOT SCALE DRAWINGS FOR QUANTITIES.**

13. BEFORE INSTALLATION OF NEW PIPE JACKS AND PIPE FLASHINGS CHECK MECHANICAL FLUES AND VENTS FOR ANY SETTLEMENT OR SHIFTING INTO ROOF. CONTRACTOR TO VERIFY THAT MECHANICAL EQUIPMENT VENTING TO HAVE POSITIVE RELEASE FLOW TO ROOF VENT AND FLUE IS SECURED TO ORIGINAL HEIGHT AND ALL CONNECTIONS ARE TIGHT AND SECURE.

14. ANY SIDING, FASCIA, ETC. THAT NEEDS TO BE REMOVED TO COMPLETE THIS JOB IS TO BE PART OF THE CONTRACT. CARE MUST BE TAKEN TO ENSURE THAT ALL ITEMS TO BE REINSTALLED ARE NOT DAMAGED DURING REMOVAL AND/OR INSTALLATION. ALL PIECES THAT ARE DAMAGED WILL BE REPLACED BY CONTRACTOR.

15. AT THE END OF CONSTRUCTION, CONTRACTOR IS TO CLEAN OUT AND FLUSH ALL GUTTERS AND DOWNSPOUTS TO MAKE SURE THEY ARE NOT PLUGGED AND ARE IN WORKING CONDITION.

16. CONTRACTOR TO SUPPLY AN ON SITE PORTABLE RESTROOM. FACILITY RESTROOMS ARE NOT TO BE USED BY CONTRACTOR OR CONTRACTOR'S EMPLOYEES. LOCATION OF PORTABLE RESTROOM TO BE DETERMINED DURING PRE-CONSTRUCTION MEETING.

COMMON SYMBOLS & ABBREVIATIONS

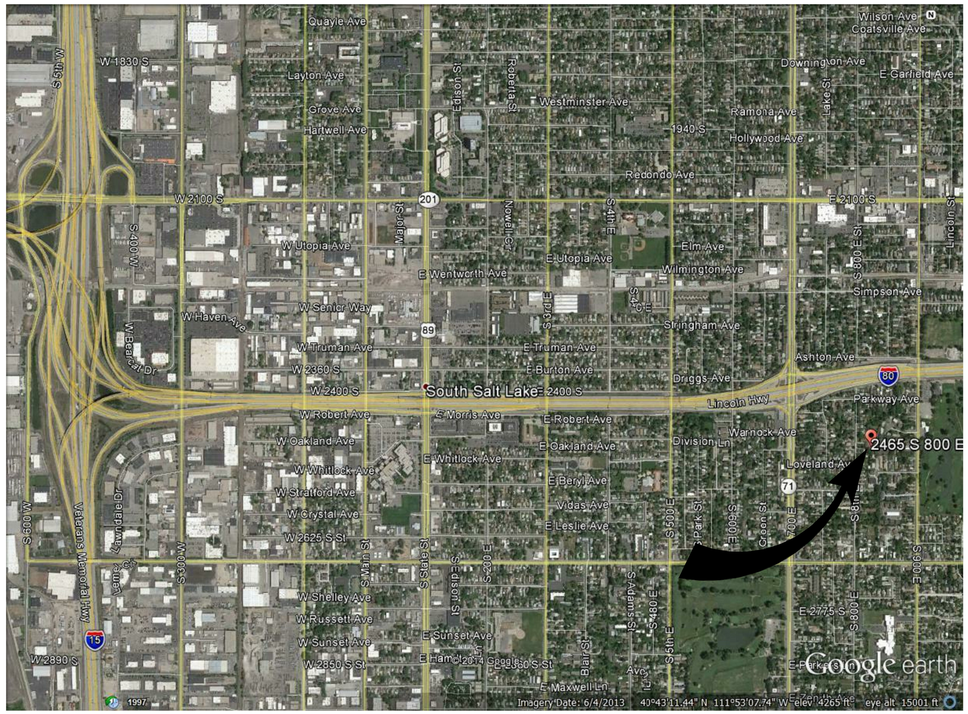
SYMBOLS

- ROOM FINISH KEYNOTE
- GENERAL KEYNOTE
- WALL CALLOUT
- WINDOW CALLOUT
- DOOR CALLOUT
- SECTION CALLOUT
- ELEVATION CALLOUT
- DETAIL CALLOUT
- ELEVATION MARKER

ABBREVIATIONS

A.F.F. = ABOVE FINISHED FLOOR	H.W.H. = HOT WATER HEATER	SEC. = SECTION
ALUM. = ALUMINUM	LT. = LIGHT	SECT. = SECTION
BD. = BOARD	MAX. = MAXIMUM	SIM. = SIMILAR
CONC. = CONCRETE	MECH. = MECHANICAL	T&G = TUNG & GROOVE
DIA. = DIAMETER	MFR. = MANUFACTURER	T.O. = TOP OF
EA. = EACH	MH = MANHOLE	TYP. = TYPICAL
FD = FLOOR DRAIN	MIN. = MINIMUM	U.N.O. = UNLESS NOTED OTHERWISE
FURN. = FURNACE	NO. = NUMBER	WT. = WEIGHT
GA. = GAUGE	N.T.S. = NOT TO SCALE	
GALV. = GALVANIZED	O.C. = ON CENTER	
GPF = GALLONS PER FLUSH	O.H. = OVERHANG	
GYP. = GYPSUM	PR. = PAIR	
HB = HOSE BIB	RCP = REFLECTED CEILING PLAN	
H.C. = HANDI-CAP	RE. = REFERENCE	

SHEET INDEX



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GENERAL NOTES

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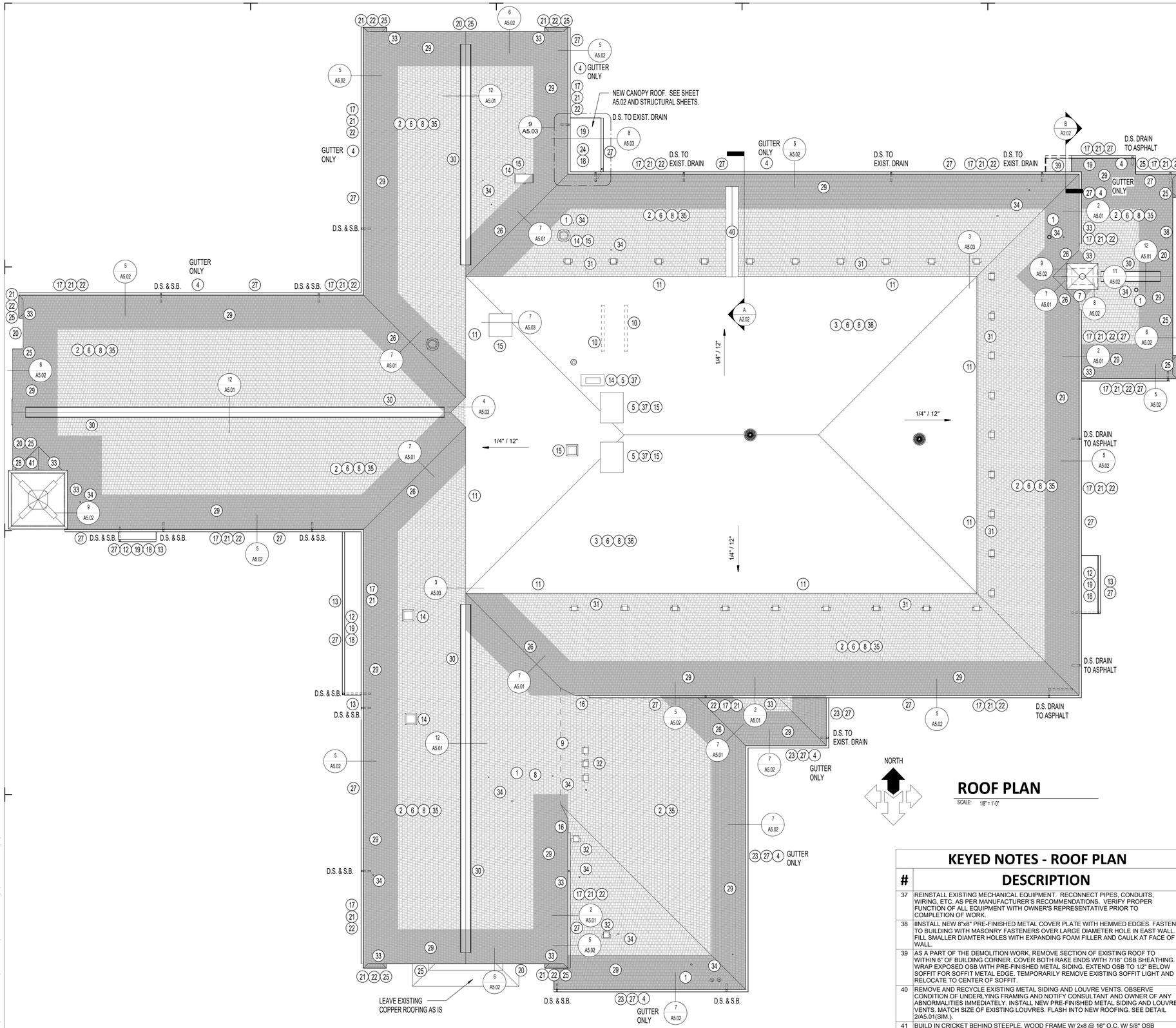

ROOF PLAN

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

KEYED NOTES - ROOF PLAN

#	DESCRIPTION
1	PRIOR TO REMOVAL OF ROOFING MATERIAL INSTALL NEW STRAP ON ALL WATER HEATER FLUES AND VENT PIPES FLUES FROM FURNACE. SEE GENERAL NOTE 13.
2	REMOVE EXISTING ASPHALT SHINGLE SYSTEM AND ALL UNDERLAYMENTS DOWN TO WOOD DECK. CHECK EXISTING DECKING FOR ANY IRREGULARITIES AND DAMAGE. BRING ANY DEFICIENCIES TO THE ATTENTION OF THE OWNER AND CONSULTANT BEFORE PROCEEDING.
3	REMOVE EXISTING SINGLE-PLY ROOFING SYSTEM DOWN TO WOOD DECK. CHECK EXISTING DECKING FOR ANY IRREGULARITIES AND DAMAGE. BRING ANY DEFICIENCIES TO THE ATTENTION OF THE OWNER AND CONSULTANT BEFORE PROCEEDING.
4	PRIOR TO REMOVAL, VERIFY CONDITION OF EXISTING SNOW MELT CABLES. NOTIFY OWNER AND CONSULTANT OF NON-FUNCTIONING CABLES OR CIRCUITS IMMEDIATELY. CONTRACTOR TO PROVIDE AN ALLOWANCE OF $10,000 TO REPLACE CABLES THAT ARE NOT FUNCTIONING. REMOVE CABLES, JUNCTION BOXES, SENSORS, ETC. AND PRESERVE ON SITE FOR REINSTALLATION. INSTALL NEW AND REINSTALL EXISTING CABLES AND ACCESSORIES AT COMPLETION OF PROJECT. VERIFY ENTIRE SYSTEM FUNCTIONS PROPERTLY PRIOR TO COMPLETION OF WORK.
5	DISCONNECT FROM DUCTING AND ELECTRICAL SUPPLY AND CAREFULLY REMOVE MECHANICAL UNITS. PRESERVE FOR REINSTALLATION AT PRIOR TO COMPLETION OF WORK.
6	PERFORM STRUCTURAL IMPROVEMENTS TO BUILDING PER STRUCTURAL ENGINEER. SEE SHEETS S1.0, S2.0, S2.1, S3.0, S3.1,(ETC.). CONTRACTOR TO PLAN ON REMOVING THE BOTTOM 4'-0" OF EXISTING ROOF SHEATHING AT THE PERIMETER TO ACCOMPLISH THE SEISMIC WORK AND REPLACING WITH WOOD PANEL PRODUCTS OF EQUAL THICKNESS. REFER TO STRUCTURAL ENGINEER'S PLANS FOR NAILING.
7	MECHANICALLY CUT AND LOWER HEIGHT OF EXISTING MASONRY CHIMNEY TO ELEVATION SHOWN ON PLANS AND AS DETERMINED BY STRUCTURAL ENGINEER. PROVIDE NEW 4" CONCRETE CAP OVER EXPOSED MASONRY. SEE DETAIL 11/A5.02. WATERPROOF NEW CAP AROUND EXISTING MECHANICAL FLUE. REDUCE HEIGHT OF EXISTING MECHANICAL FLUE TO A MINIMUM OF 10" ABOVE THE CAP AND A MAXIMUM OF 12"
8	INSTALL NEW WOOD PANEL SHEATHING OVERLAY OVER ENTIRE ROOF. SEE STRUCTURAL SHEETS TO VERIFY PANEL SIZE, ALL LOCATIONS AND INSTALLATION REQUIREMENTS.
9	INSTALL NEW 12" W. x CONTINUOUS, 24 GA. GALVANIZED METAL STRIP OVER EDGE OF NEW SHEATHING OVERLAY DOWN TO EXISTING SHEATHING OVER THE BUILDING ADDITION. PROVIDE WEDGE-SHAPED SHIMS AT NAILING LOCATIONS TO SUPPORT METAL TRANSITION STRIP. SEE DETAIL 12/A5.02.
10	ABANDONED MECHANICAL CURBS ARE TO BE REMOVED AND DISPOSED. FILL-IN ANY ROOF PENETRATIONS WITH A MINIMUM OF 2x8 JOISTS @ 24"o.c. AND WOOD PANEL SHEATHING TO MATCH THICKNESS OF EXISTING ROOF SHEATHING. NEW OVERLAY SHEATHING IS TO GO OVER ANY PATCHED PENETRATIONS.
11	INSTALL NEW 1/2" x 3-1/2" CONTINUOUS WOOD NAILER ALONG PERIMETER OF UPPER FLAT ROOF AREA. SEE DETAILS 3 & 9/A5.03. NAILER TO BE SLIGHTLY LOWER THAN HEIGHT OF NEW ROOFING SYSTEM INSULATION.
12	REMOVE EXISTING MEMBRANE ROOFING SYSTEM FROM CANOPY ROOF. WHERE OCCURS, REMOVE EXISTING PIPE THROUGH FASCIA, REMOVE FE FASCIA AND SOFFIT METAL. RECYCLE AND DISPOSE OF WASTE IN LAWFUL MANNER.
13	INSTALL NEW P.T. 1x4 NAILER ALONG ALL EDGES OF CANOPY ROOF. TRIM OR PLANE 1x TO BE FLUSH WITH NEW ROOF COVERBOARD. INSTALL NEW 1x FASCIA BOARD OVER EXISTING FASCIA BOARD. BOTTOM OF NEW FASCIA TO EXTEND ½" BELOW EXISTING WOOD SOFFIT. NEW FASCIA BOARD TO BE FLUSH FROM TOP OF 1x NAILER TO BOTTOM OF BOARD. SEE DETAILS 11&12/A5.03.
14	INSTALL NEW WOOD FRAME MECHANICAL CURB. SEE DETAILS 3 & 4/A5.01 AND 2/A5.03.
15	FLASH EXISTING MECHANICAL CURBS SIMILAR TO NEW CURBS. SEE DETAILS 3 & 4/A5.01 AND 2/A5.03.
16	FRAME-IN BELOW EAVE THE AREA BETWEEN UPPER ROOF AND LOWER SHINGLED ROOF. COMPLETELY WRAP NEW FRAMED-IN AREA WITH 'GRACE' ICE AND WATER SHIELD. SEE DETAIL 3/A5.02.
17	CUT 2" SLOT BETWEEN EXISTING OPENINGS IN EXISTING WOOD SOFFIT FOR A CONTINUOUS OPENING. REMOVE EXISTING LIGHTING, JUNCTION BOXES, SENSORS, ETC. AND PRESERVE FOR REUSE. VERIFY CONDITION OF EXISTING LIGHTING AND OTHER ELEMENTS PRIOR TO REMOVAL. NOTIFY OWNER AND CONSULTANT OF NON-FUNCTIONING LIGHTS OR ELECTRICAL ITEMS IMMEDIATELY. SEE DETAIL 9/A5.01.
18	INSTALL NEW 80 mil PVC MEMBRANE ROOFING OVER ½" COVERBOARD. FULLY ADHERE ROOFING TO COVERBOARD. INSTALL NEW SYSTEMS WITH ROOF TO WALL FLASHING AND COUNTERFLASHING PER MANUFACTURER. SEE ALSO DETAIL 10/A5.03. INSTALL NEW PVC COATED DRIP EDGE METAL AT CANOPY EAVES. SEE DETAILS 11 & 12/A5.03.
19	WRAP NEW FASCIA BOARD WITH PRE-FINISHED METAL. INSTALL NEW SOLID, PRE-FINISHED METAL SOFFIT BENEATH CANPOY ROOF. SEE DETAILS 11 & 12/A5.03.
20	CUT & TRIM EXISTING WOOD ROOF DECK FLUSH WITH RAKE TRIM AT GABLE ENDS. REMOVE AND REPLACE EXISTING WOOD RAKE TRIM WITH PRE-FINISHED METAL WRAPPED RAKE BOARD. MATCH EXISITNG BOARD SIZE & DIMENSIONS. SEE DETAIL 10/A5.01 AND 6/A5.02.
21	REMOVE AND DISPOSE EXISTING WOOD CROWN MOLD FASCIA BOARD. CUT & TRIM EXISTING WOOD ROOF DECK FLUSH WITH REMAINING FASCIA. WRAP EXISTING WOOD FASCIA BOARD WITH NEW PRE-FINISHED METAL.
22	DISCONNECT AND TEMPORARILY REMOVE EXISTING CONDUITS, BOXES, WIRES, ETC. FROM EXISTING FREIZE. WRAP EXISTING WOOD FREIZE BELOW EAVE WITH NEW 24 ga. PRE-FINISHED METAL. SEE DETAILS 9/A5.01 AND 5/A5.02. REINSTALL CONDUITS AND OTHER ITEMS REMOVED PER DIRECTION OF OWNER.
23	PRESERVE EXISTING METAL FASCIA, SOFFIT, AND TRIM AT NEWER BUILDING ADDITION. SEE DETAIL 7/A5.02.
24	REMOVE EXISTING ALUMINUM CANOPY ROOF AND STRUCTURE DOWN TO ASPHALT. CONSTRUCT NEW METAL & WOOD FRAME CANOPY ROOF STRUCTURE AND FOUNDATION PER PLAN AND SPECIFICATION. SEE DETAILS 6/A5.01, 8 & 9/A5.03 AND STRUCTURAL SHEETS. INSTALL NEW 80 mil PVIC MEMBRANE ROOFING SYSTEM OVER ½" COVERBOARD. SEE NOTES #12b & 15b. OUTLET BOTH UPPER ROOF DOWNSPOUTS ONTO NEW CANOPY ROOF. INSTALL NEW PRE-FINISHED METAL GUTTER AND DOWNSPOUT. SEE DETAIL 8/A5.03. INTALL TOP OF FOOTING FLUSH WITH SURFACE OF EXISTING ASPHALT. CAP UNUSED DRAIN PIPES AT 6" ABOVE GRADE.
25	REMOVE EXISTING DRIP EDGE AND INSTALL NEW PRE-FINISHED METAL DRIP EDGE. INSTALL NEW DRIP EDGE OVER 12" CONTINUOUS STRIP OF SECONDARY UNDERLAYMENT. SEE DETAILS 6/A5.01 AND 6/A502.
26	INSTALL NEW PRE-FINISHED METAL VALLEYS OVER 9'-0" (3 STRIPS) OF SECONDARY UNDERLAYMENT. SEE DETAIL 7/A5.01.
27	REMOVE & RECYCLE EXISTING GUTTERS AND DOWNSPOUTS. INSTALL NEW PRE-FINISHED METAL RAIN GUTTER AND DOWNSPOUTS. INSTALL NEW DOWNSPOUTS AT THE SAME LOCATION AS EXISTING. SEE DETAILS 5/A5.01 AND 7/A5.02. TIE DOWNSPOUTS INTO EXISTING DRAINAGE SYSTEM WHERE OCCURS. CAP ALL DRAIN LINES NO LONGER UTILIZED. INSTALL NEW PRE-CAST CONCRETE SPLASH BLOCKS BENEATH ALL NEW DOWNSPOUTS THAT DO NOT TIE INTO SUBTERRANEAN STORM DRAIN SYSTEM.
28	INSTALL NEW PRE-FINISHED METAL CONDUCTOR HEAD AND DOWNSPOUT ON FACE OF BUILDING AT STEEPLE LOCATION. SEE DETAIL 5/A5.03.
29	INSTALL 9'-0" WIDE (3 STRIPS) OF SECONDARY UNDERLAYMENT AT PERIMETER OF LOWER ROOF. SEE DETAILS 5, 6, & 7/A5.02. IN ALL CASES, SECONDARY UNDERLAYMENT IS TO EXTEND A MINIMUM OF 3'-0" TOWARD THE INTERIOR AT ALL EXTERIOR WALLS AND SECOND SET OF DOORS AT ENTRANCES.
30	INSTALL NEW PRE-FINISHED METAL RIDGE VENT PER SPECIFICATIONS AND DETAIL. CUT EXISTING SHEATHING AND INSTALL NEW 2x BLOCKING AS REQUIRED FOR REQUIRED VENTILATION. CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS BEFORE FABRICATING AND INSTALLING NEW RIDGE VENT. SEE DETAILS 1, 11, & 12/A5.01.
31	INSTALL NEW PRE-MANUFACTURED TURTLE VENT AT LOW SLOPE TO HIGH SLOPE ROOF TRANSITION AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. CUT EXISTING SHEATHING AND INSTALL NEW 2x BLOCKING AS REQUIRED FOR VENTILATION AND STRUCTURAL SUPPORT. SEE DETAIL 1/A5.02.
32	REPLACE (5) EXISTING TURTLE VENTS WITH NEW. SEE DETAIL 1/A5.02.
33	REMOVE & RECYLCE EXISTING WALL TO ROOF FLASHINGS. INSTALL NEW GALVANIZED AND PRE-FINISHED METAL STEP FLASHINGS, COUNTERFLASHINGS, ETC. SEE DETAILS 2/A5.01 AND 8, 9, & 10/A5.02.
34	INSTALL NEW ONE-PIECE METAL PIPE JACKS AND BOOTS. METAL TO BE 24 ga. GALVANIZED, 16 oz. COPPER OR 5 lb. LEAD WITH SOLDERED JOINTS. CAULK AND SEAL WATERTIGHT ALL ROOF PENETRATIONS AND FLASHINGS. PAINT VENT PIPES TO MATCH COLOR OF SHINGLES AND COLOR OF MEMBRANE. SEE DETAIL 8/A5.01
35	INSTALL NEW ASPHALT SHINGLE SYSTEM AND UNDERLAYMENT PER PLAN AND SPECIFICATIONS.
36	INSTALL NEW 80 mil PVC MEMBRANE, FULLY ADHERED ROOFING SYSTEM OVER 1/2" COVERBOARD, OVER 1/4" PER FOOT TAPERED INSULATION PER PLAN. INSULATION TO BE MECHANICALLY ADHERED TO ROOF DECK. INSTALL NEW SYSTEM WITH ASSOCIATED EDGE, PIPE, CURB, WALL FLASHINGS, ETC. AS PER MEMBRANE MANUFACTURER RECOMMENDATIONS AND PER SPECIFICATION. SEE DETAILS 1, 3, 4, 6, 7, & 9/A5.03.

KEYED NOTES - ROOF PLAN

#	DESCRIPTION
37	REINSTALL EXISTING MECHANICAL EQUIPMENT. RECONNECT PIPES, CONDUITS, WIRING, ETC. AS PER MANUFACTURER'S RECOMMENDATIONS. VERIFY PROPER FUNCTION OF ALL EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO COMPLETION OF WORK.
38	IINSTALL NEW 8"x8" PRE-FINISHED METAL COVER PLATE WITH HEMMED EDGES. FASTEN TO BUILDING WITH MASONRY FASTENERS OVER LARGE DIAMETER HOLE IN EAST WALL. FILL SMALLER DIAMTER HOLES WITH EXPANDING FOAM FILLER AND CAULK AT FACE OF WALL.
39	AS A PART OF THE DEMOLITION WORK, REMOVE SECTION OF EXISTING ROOF TO WITHIN 6" OF BUILDING CORNER. COVER BOTH RAKE ENDS WITH 7/16" OSB SHEATHING. WRAP EXPOSED OSB WITH PRE-FINISHED METAL SIDING. EXTEND OSB TO 1/2" BELOW SOFFIT FOR SOFFIT METAL EDGE. TEMPORARILY REMOVE EXISTING SOFFIT LIGHT AND RELOCATE TO CENTER OF SOFFIT.
40	REMOVE AND RECYCLE EXISTING METAL SIDING AND LOUVRE VENTS. OBSERVE CONDITION OF UNDERLYING FRAMING AND NOTIFY CONSULTANT AND OWNER OF ANY ABNORMALITIES IMMEDIATELY. INSTALL NEW PRE-FINISHED METAL SIDING AND LOUVRE VENTS. MATCH SIZE OF EXISTING LOUVRES. FLASH INTO NEW ROOFING. SEE DETAIL 2/A5.01(SIM.).
41	BUILD IN CRICKET BEHIND STEEPLE. WOOD FRAME W/ 2x8 @ 16" O.C. W/ 5/8" OSB SHEATHING.

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ROOF PLAN

A1.01

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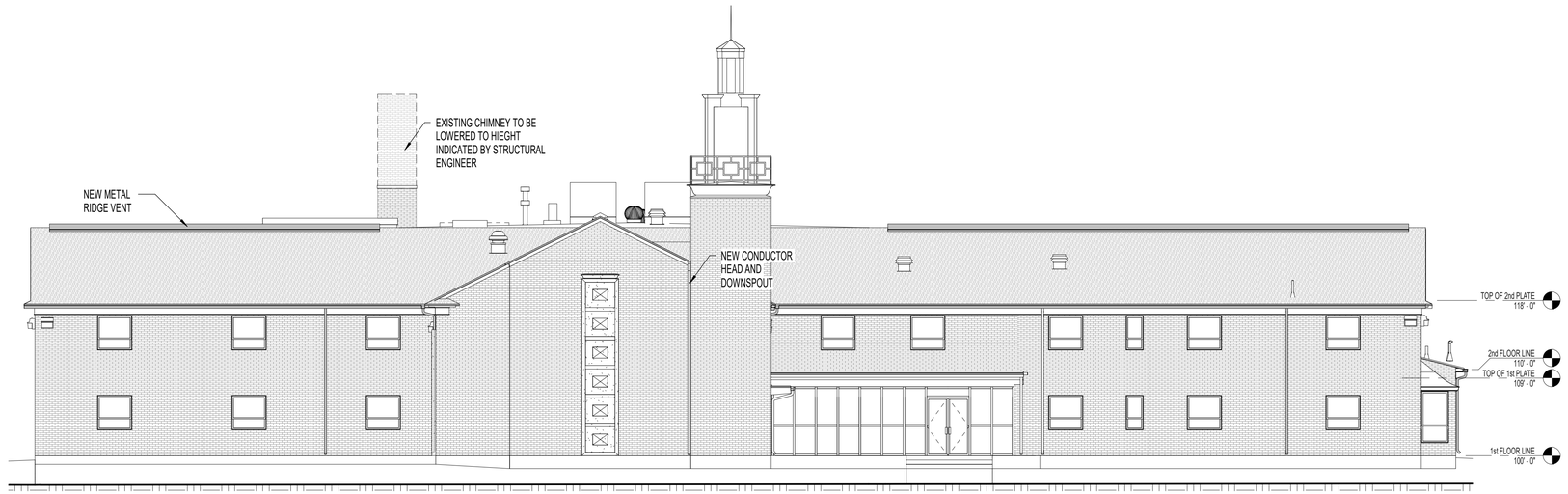
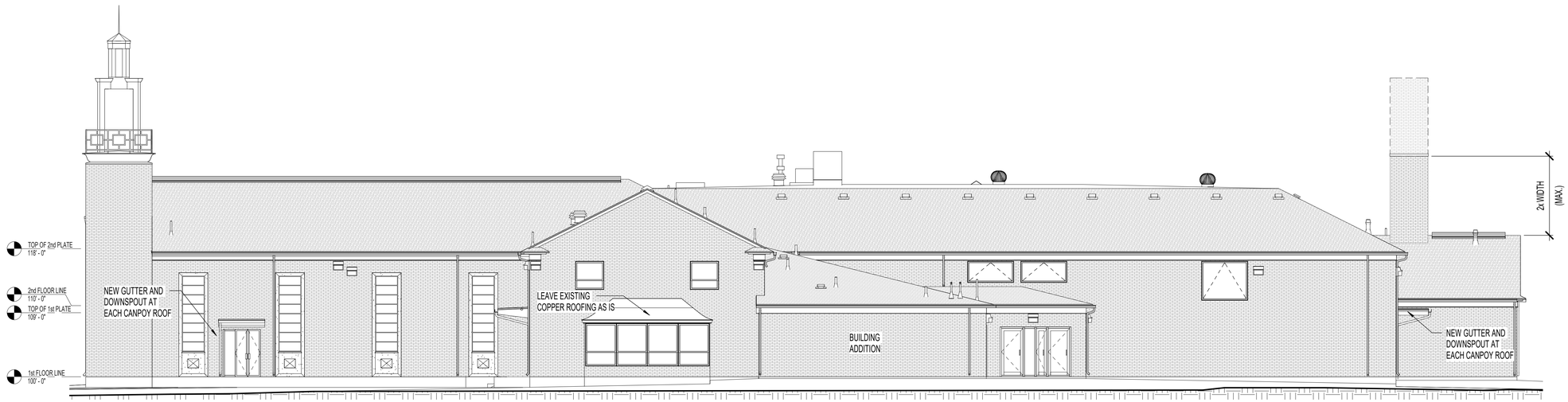


WEST ELEVATION

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



SOUTH ELEVATION

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

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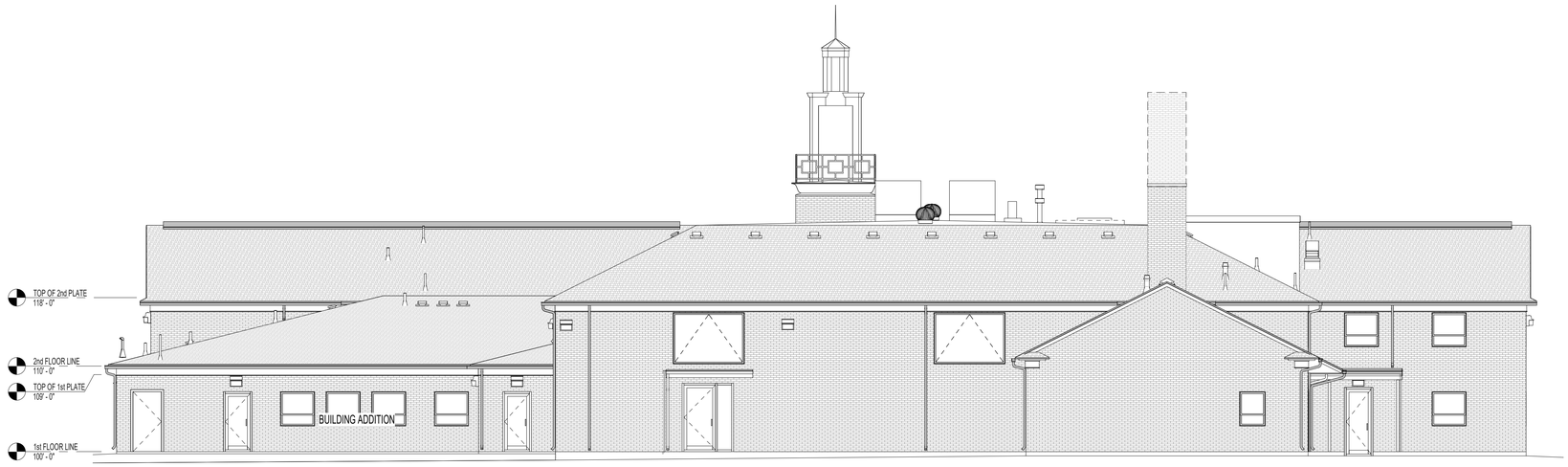
EXTERIOR ELEVATIONS

A2.01



EAST ELEVATION

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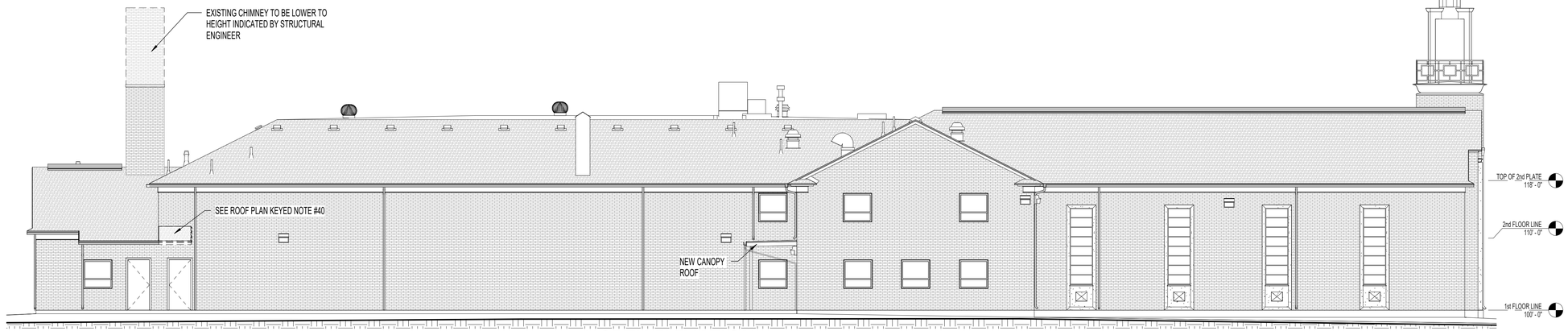
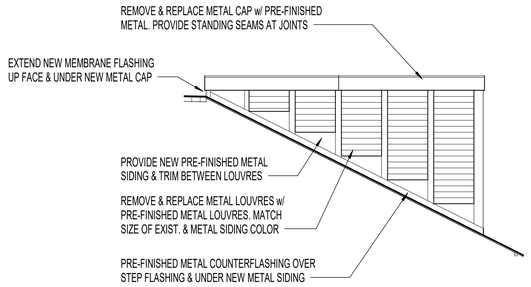


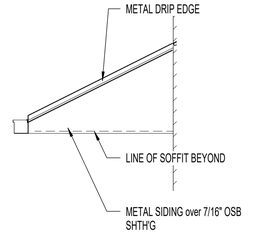
NORTH ELEVATION

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



A MECHANICAL VENT ELEVATION

SCALE: 1/4" = 1'-0"



B OVERHANG ELEVATION

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

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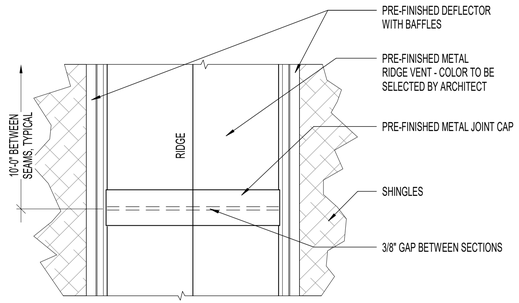
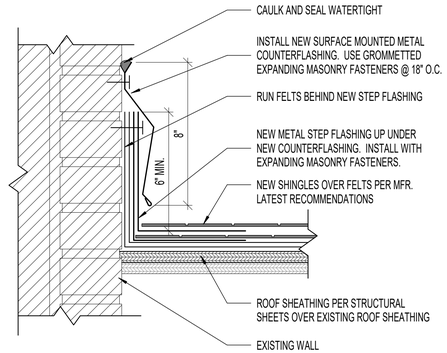
EXTERIOR ELEVATIONS

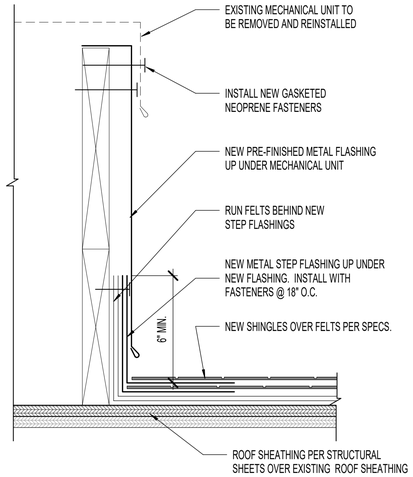
A2.02



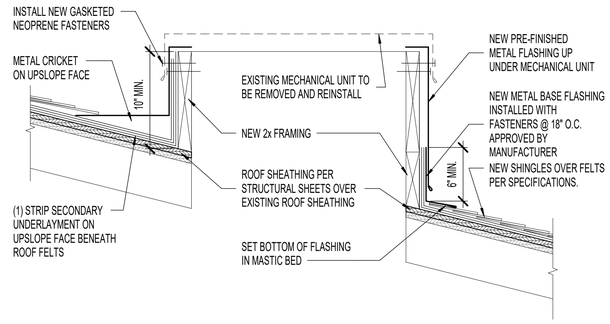
1 RIDGE VENT PLAN (ABOVE CAP)
SCALE: 1 1/2" = 1'-0"



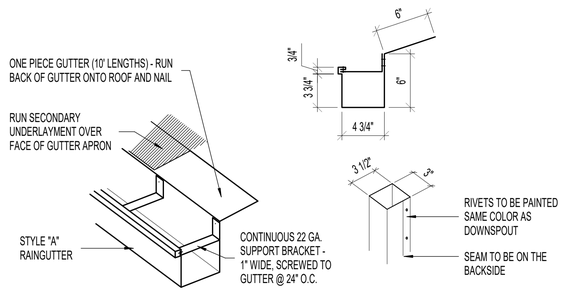
2 STEP FLASHING DETAIL - HIGH SLOPE
SCALE: 3" = 1'-0"



3 MECHANICAL CURB - STEP FLASHING DETAIL
SCALE: 3" = 1'-0"



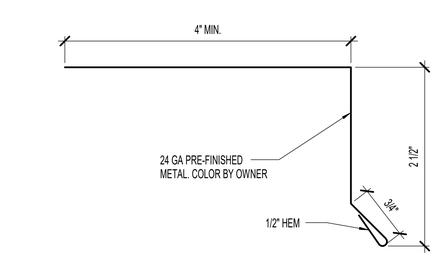
4 MECHANICAL CURB - HIGH SLOPE
SCALE: 1 1/2" = 1'-0"



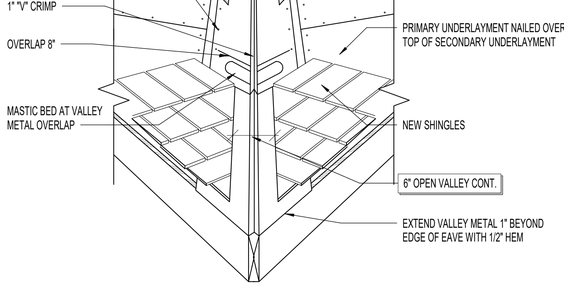
NOTE:

- NO JOINTS ABOVE ENTRY DOORS
- RIVETS & SCREWS TO BE PAINTED SAME COLOR
- USE POP RIVETS AT ALL CONNECTIONS FROM RAINGUTTERS TO DOWNSPOUTS
- CAULKING TO BE SAME COLOR AS SHEET METAL
- EXPANSION JOINTS IN GUTTER EVERY 50 FEET (MAX.)

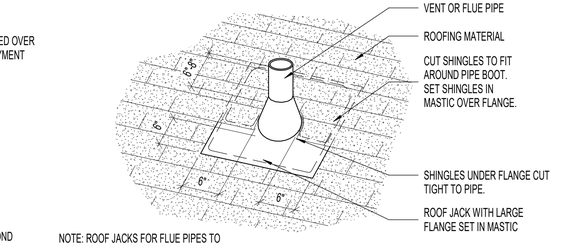
5 GUTTER & DOWNSPOUT DETAIL - HIGH SLOPE
SCALE: 1 1/2" = 1'-0"



6 STANDARD DRIP EDGE DETAIL
SCALE: 12" = 1'-0"

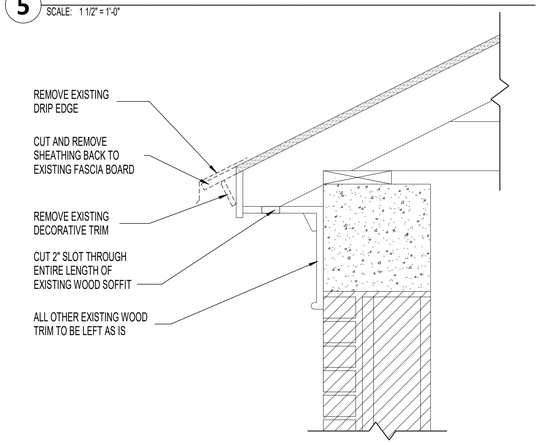


7 VALLEY FLASHING DETAIL
SCALE: 1" = 1'-0"

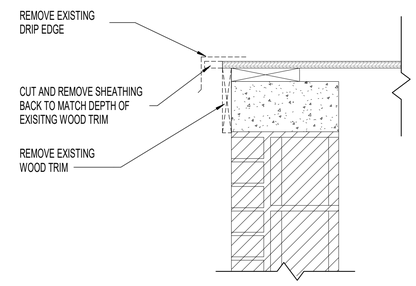


NOTE: ROOF JACKS FOR FLUE PIPES TO BE 24 GA. GALVANIZED METAL.

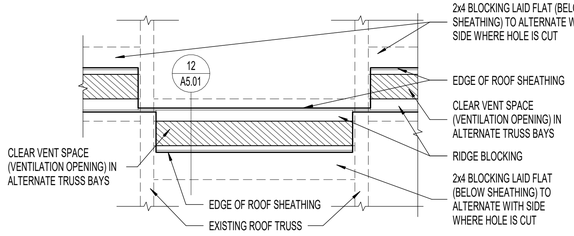
8 PIPE JACK FLASHING - HIGH SLOPE
SCALE: 12" = 1'-0"



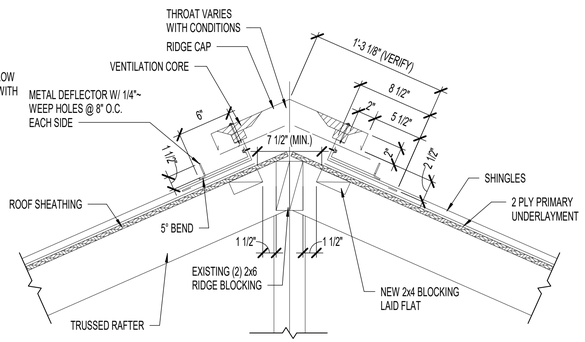
9 TYPICAL FASCIA DETAIL - EXISTING
SCALE: 1 1/2" = 1'-0"



10 TYPICAL GABLE DETAIL - EXISTING
SCALE: 1 1/2" = 1'-0"



11 RIDGE VENT PLAN (BELOW CAP)
SCALE: 1 1/2" = 1'-0"



12 RIDGE VENT DETAIL
SCALE: 1 1/2" = 1'-0"

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The Church of Jesus Christ of Latter-day Saints
SALT LAKE GRANITE STAKE
2465 SOUTH 800 EAST
SALT LAKE CITY, UTAH

REVISIONS	
DATE	DESCRIPTION

PROJECT NO.	13061
DRAWN BY	DTS/MGS
CHECKED BY	CEG
DATE	8 FEBRUARY 2019
PROP. NC	506790112030101

STEEP SLOPE ROOF DETAILS

A5.01

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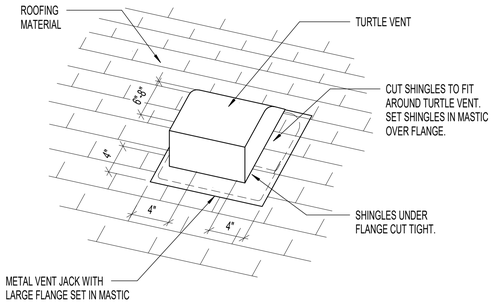

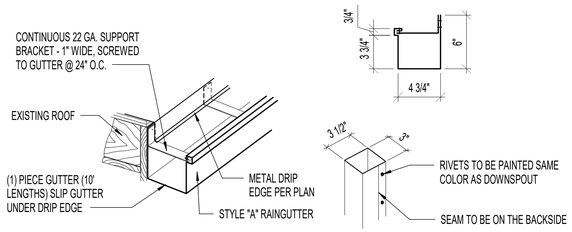

NOTE:

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- CAULKING TO BE SAME COLOR AS SHEET METAL
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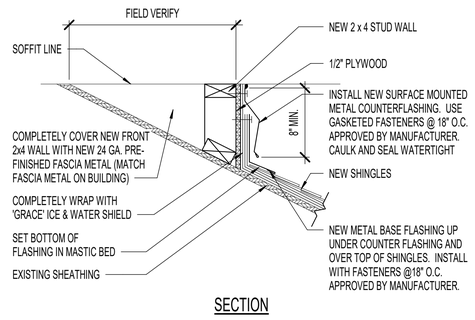
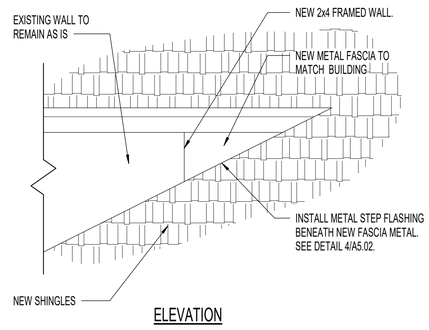
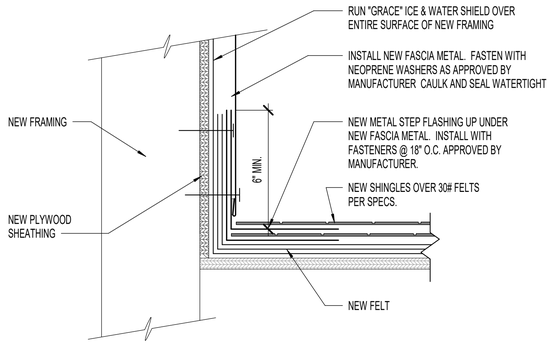


SECTION

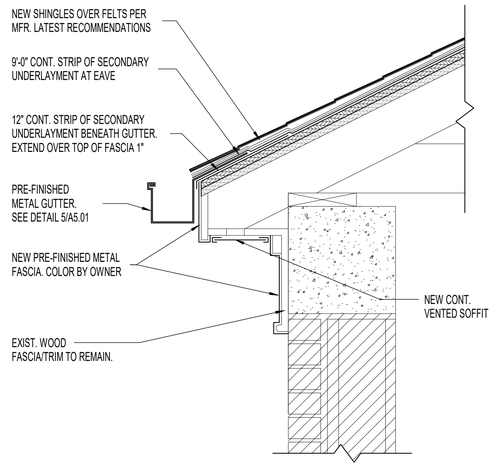


ELEVATION

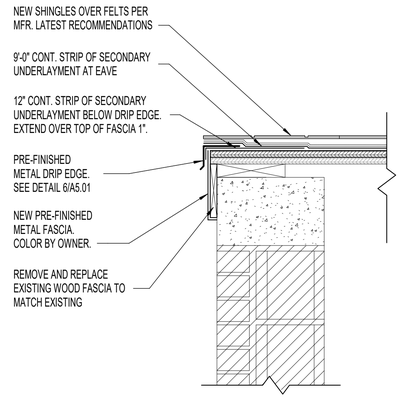
1 TURTLE VENT
SCALE: 1 1/2" = 1'-0"

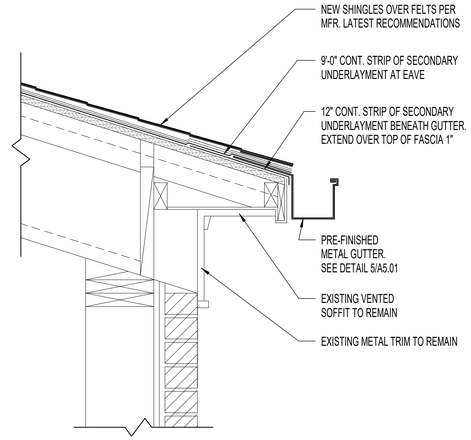


2 LOW SLOPE GUTTER & DOWNSPOUT DETAIL
SCALE: 1 1/2" = 1'-0"

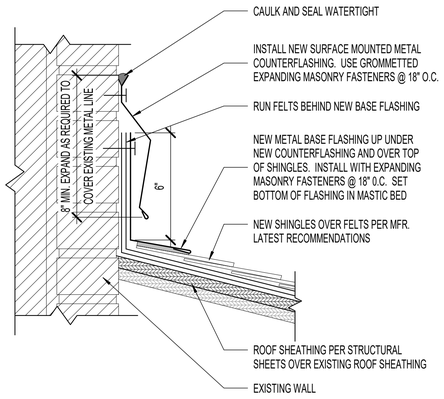


3 FRAMED WALLS BENEATH OVERHANG
SCALE: 3/4" = 1'-0"

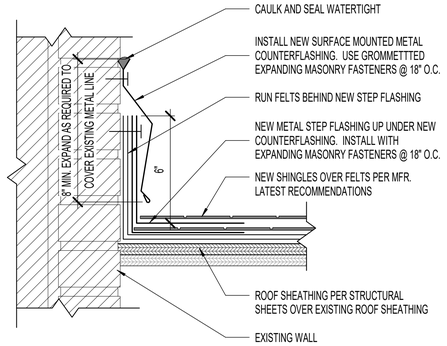




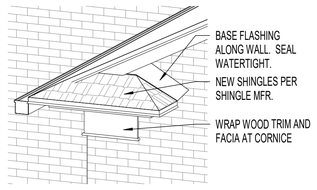
4 FRAMED OVERHANG FLASHING DETAL
SCALE: 3" = 1'-0"



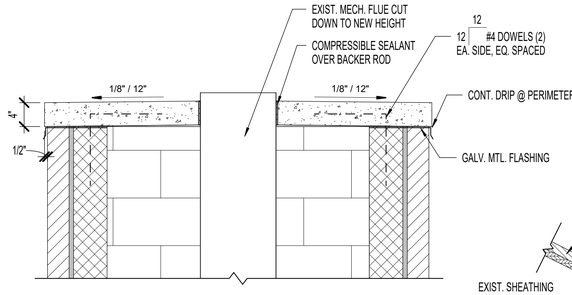
5 TYPICAL FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



6 TYPICAL GABLE FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



7 TYPICAL FASCIA DETAIL AT ADDITION
SCALE: 1 1/2" = 1'-0"



8 STEEPLE / CHIMNEY BASE FLASHING DETAIL
SCALE: 3" = 1'-0"

9 STEEPLE / CHIMNEY STEP FLASHING DETAIL
SCALE: 3" = 1'-0"

10 CORNICE DETAIL
SCALE:

11 CHIMNEY CAP DETAIL
SCALE: 1" = 1'-0"

12 TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"

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REVISIONS

DATE	DESCRIPTION

PROJECT NO.	13061
DRAWN BY	DTS/MGS
CHECKED BY	CEG
DATE	8 FEBRUARY 2019
PROP. NC	506790112030101

STEEP SLOPE ROOF DETAILS

A5.02

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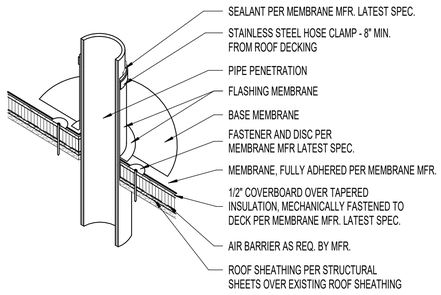
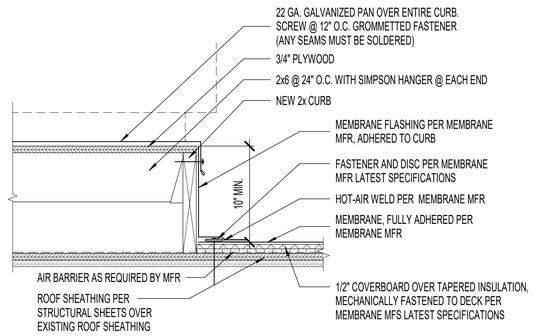


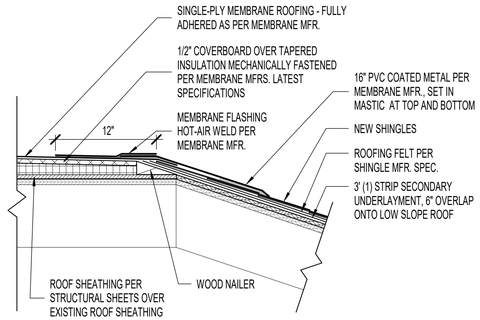
1 PIPE PENETRATION FLASHING - LOW SLOPE

SCALE: 1" = 1'-0"



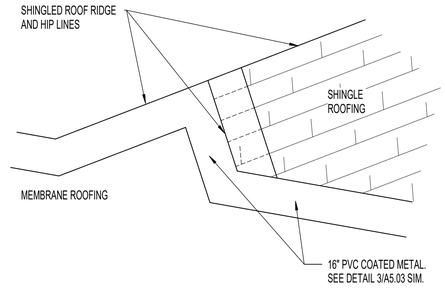
2 CURB DETAIL @ MECHANICAL UNIT

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



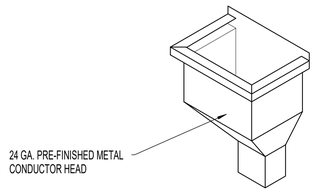
3 LOW SLOPE DOWN TO HIGH SLOPE TRANSITION

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



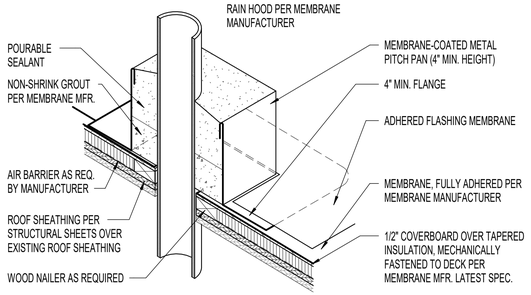
4 RIDGE TRANSITION TO LOW SLOPE

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



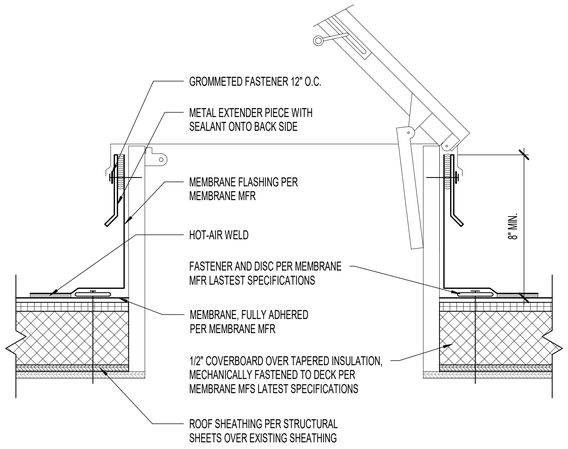
5 CONDUCTOR HEAD DETAIL

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



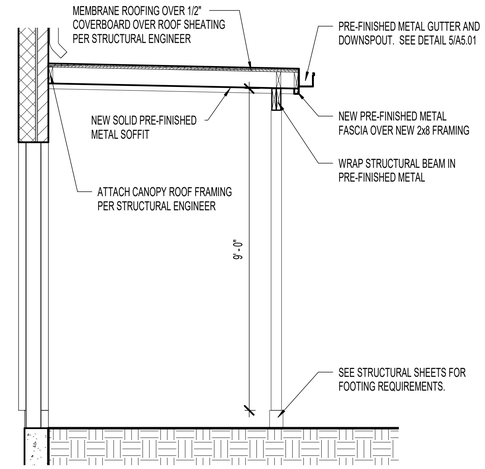
6 SEALANT POCKET

SCALE: 1" = 1'-0"



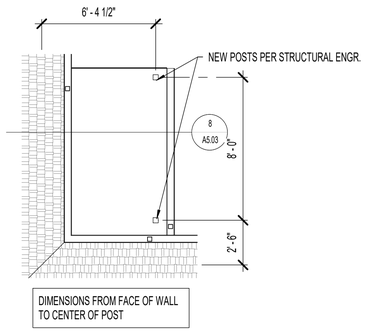
7 ROOF HATCH ACCESS

SCALE: 3" = 1'-0"



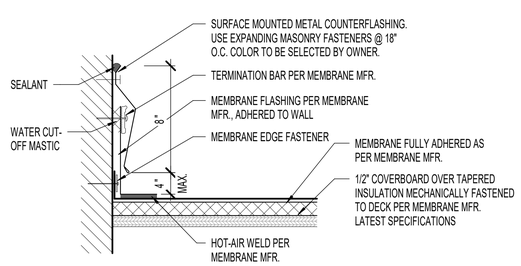
8 NEW CANOPY ROOF DETAIL

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



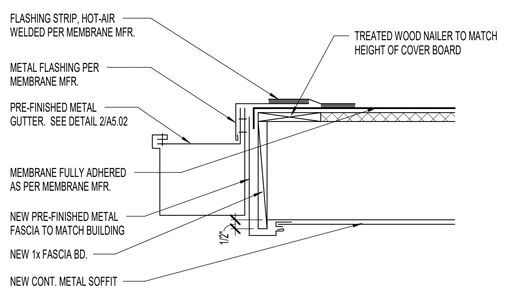
9 ENLARGED CANOPY LAYOUT

SCALE: 1/4" = 1'-0"



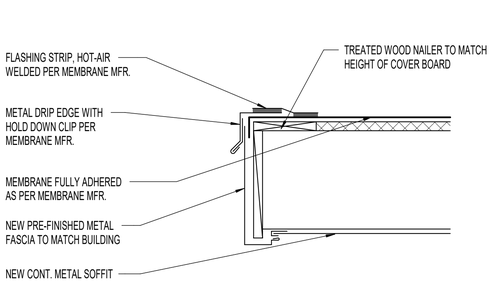
10 COUNTER FLASHING AT CANOPY ROOFS

SCALE: 3" = 1'-0"



11 CANOPY ROOFS EDGE DETAIL W/ GUTTER

SCALE: 3" = 1'-0"



12 CANOPY ROOFS EDGE DETAIL

SCALE: 3" = 1'-0"

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REVISIONS	
DATE	DESCRIPTION

PROJECT NO.	13061
DRAWN BY	DTS/MGS
CHECKED BY	CEG
DATE	8 FEBRUARY 2019
PROP. NC	506790112030101

LOW SLOPE ROOF DETAILS

A5.03

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GENERAL NOTES FOR STRUCTURAL SHEETS

BASIS OF DESIGN

1. BUILDING CODE . . . . . 2015 IBC
2. RISK CATEGORY III
3. GRAVITY DESIGN:
   DEAD LOADS:
   Roofs . . . . . 20 psf
   LIVE LOADS:
   Roofs . . . . . 20 psf
   SNOW LOADS:
   Snow load on ground, Pg . . . . . 42.8 psf
   Snow load on flat roof, Pf . . . . . 33 psf
   Exposure factor, Ce 1.0
   Importance factor, Is 1.1
   Thermal factor, Ct 1.0
   Slope roof factor, Cs 1.0
   Snow load on sloped roof, Ps . . . . . 33 psf
4. WIND DESIGN:
   Basic wind speed (ultimate). . . . . 115 mph (3 sec gust)
   Importance factor, Iw 1.0
   Exposure C
5. SEISMIC DESIGN: (According to ASCE41-06)
   Building performance criteria at 2/3 MCE, ... Life Safety
   Building performance criteria at Maximum considered MCE, ... Collapse Prevention
   Mapped Spectral response accelerations:
   Ss & S1 . . . . . 1.443 & 0.532
   Site class . . . . . D
   Spectral response coefficients:
   Sxs & Sx1 . . . . . 1.446 & 0.798
   Basic Seismic-Force-Resisting System:
   Ordinary masonry shear walls

EOR = Engineer of record. See professional stamp this page.
UNO = Unless noted otherwise
(E) = Existing condition
(N) = New construction
WD-# = Wood diaphragm call out see schedule

GENERAL

1. THE GENERAL CONTRACTOR SHALL:
   A. Be familiar with the contract documents and insure that subcontractors are familiar with their portion of the work. Submit a written request to the Arch/EOR for approval before proceeding with any changes.
   B. Verifies site conditions and dimensions at the site. If they differ from the contract documents, notify the Arch/EOR prior to fabrication/construction of affected elements. Existing condition information on the drawings is based on best knowledge acquired during the design phase and may differ from actual conditions. Affected details may require redesign.
   C. Report to the Arch/EOR modifications made to the structure.
   D. Be responsible for safety and protection on and around the job site and adjacent properties.

2. THE GENERAL CONTRACTOR SHALL COORDINATE:
   A. And verify locations, weights and sizes of mechanical units, equipment, etc. prior to the fabrication and erecting of structural supporting elements. Report sizes and locations that differ from those shown on the drawings to the Arch/EOR for review. Additional framing maybe required.
   B. Roof, floor, and wall openings required for mechanical, etc. which are not shown on the structural drawings with the Arch/EOR.
   C. Any structural situation not covered by the drawings with the Arch/EOR.
   D. Doors, windows, walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, pads, landscape walls, trenches in slabs, etc. with the structural work.
   E. Inspections, testing, and structural observations as work proceeds. Notify the EOR 48 hours prior to any required structural observations.

3. CONTRACT DOCUMENTS & DRAWINGS:
   A. These structural notes complement the specifications and the drawings.
   B. Specific details, sections and notes shown on the drawings govern over these general notes and typical details.
   C. Contract documents take precedence over shop drawings, UNO.
   D. Apply typical or similar details, sections and notes to similar situations on the drawings where specific details are not referenced.
   E. Drawings and details have been prepared to visually represent information provided in scaled form. However, DO NOT scale plans or details for dimensional information.
   F. Refer to architectural drawings for dimensions.

4. BUILDING CODE COMPLIANCE: Construction, inspection, materials, testing, and workmanship shall conform to the requirements of the governing building code.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS: The general contractor is responsible for the method, means, and sequence of structural erection, UNO. He shall provide adequate temporary shoring or bracing for all structural elements until the entire structural system is completed. Design of shoring and bracing is by others at no additional cost to the owner.

6. OMISSIONS, CONFLICTS & DISCREPANCIES:
   A. Bring omissions, conflicts or discrepancies between the elements of the contract documents to the attention of the Arch/EOR before proceeding with work involved.
   B. In case of conflicts or discrepancies, follow the most stringent requirements as directed by the Arch/EOR.

7. MISCELLANEOUS:
   A. During and after construction, builder and/owner shall keep loads on the structure within the limits of this design. See Basis of Design.
   B. Site observations by WCA's field representative shall neither be construed as inspection nor approval of construction.

8. SUBMITTALS:
   A. Make submittals in a timely manner. WCA's review is for general compliance only and is not intended as approval. Contractor is responsible for verifying sizes, dimensions and elevations on submittals as related to the contract documents.
   B. Submit the following items for review prior to proceeding with the work:

      Concrete material Certifications & mix designs.
      Cores material Certifications and grout designs.
      Shop Drawings: Reinforcing steel
      Structural steel
      Welding procedures and certifications.

   C. Allow two weeks for the review of submittals by the EOR.
   D. Have EOR approved shop drawings & materials on site before construction of those components begins.
   E. Substitutions are not allowed unless approved by the EOR. Submit requests for structural substitutions to the Arch/EOR.

STRUCTURAL OBSERVATIONS

Required Structural Observations:

1. Verification of existing and new roof sheathing thickness, appropriate nailing patterns used, and blocking of blocked diaphragms
2. Verification of construction of all roof to wall connections including blocking clips, connecters, and strapping and new bolting
3. Grouting of cores

ADHESIVE

ALL REFERENCES TO CONSTRUCTION ADHESIVE REFER TO THE FOLLOWING

1. 3M5200 MARINE ADHESIVE MANUFACTURED BY 3M

NOTE:

WHERE DETAILS INDICATE A 3/8" DIAMETER BEAD OF CONSTRUCTION ADHESIVE. THE 3/8" IS BEFORE THE TWO MEMBERS ARE PRESSED TOGETHER. AFTER THE MEMBERS BEING CONNECTED ARE PRESSED TOGETHER, THE WIDTH OF THE GLUE SHOULD BE NO LESS THEN 1" WIDE. GLUE SHOULD EXTEND THE FULL LENGTH OF THE SHORTEST CONNECTING MEMBER. GLUING PROCEDURES FOUND TO NOT COMPLY WITH THE INSTRUCTIONS ABOVE WILL REQUIRE CONTRACTOR TO DEMO THE DEFICIENT MEMBER AT THEIR EXPENSE, AND REPLACE USING THE PROPER GLUING PROCEDURES.

POST-INSTALLED ANCHORS

1. PRODUCT: Epoxy Anchors
   A. Epoxy for Concrete connections shall be:
      1. HIT RE 500-SD (ICC-ESR-2322) by Hilti Corporation
      2. HIT_HY 150 MAX-SD (ICC-ESR-3013) by Hilti Corporation
      3. Powers PE1000 + (ICC-ESR-2583) by Powers Fasteners Inc
      4. SET-XP (ICC-ESR-2508) by Simpson Strong Tie.
      5. Alternative epoxies may be used if an ICC-ESR approval for use in cracked concrete is submitted to the structural engineer prior to use.
   B. Epoxy for Masonry Connections shall be:
      1. HIT RE 500 (ICC-ESR-1682) by Hilti Corporation (grout filled masonry applications)
      2. HIT HY 150 MAX (ICC-ESR-1967) by Hilti Corporation (grout filled masonry applications)
      3. HIT HY 20 (ICC-ESR-2659) by Hilti Corporation (hollow masonry applications only)
      4. SET (ICC-ESR-1772) by Simpson Strong
   C. Follow all of the manufacturer's recommendations and ICC-ESR for epoxy installation.
2. PRODUCT: Mechanical Anchors
   A. Mechanical Anchors for Concrete connections shall be:
      1. Kwik Bolt TZ (ICC-ESR-1917) by Hilti Corporation
      2. Strong-Bolt (ICC-ESR-1771) by Simpson Strong Tie Inc.
      3. Power-Stud+ SD1 (ICC-ESR-2818) by Powers Fasteners Inc.
      4. Alternative mechanical anchors may be used if an ICC-ESR approval for use in cracked concrete is submitted to the structural engineer prior to use.
   B. Mechanical Anchors for Masonry Connections shall be:
      1. Kwik Bolt 3 (ICC-ESR-1385) by Hilti corporation (grout filled masonry applications)
      2. Wedge-All (ICC-ESR-1396) by Simpson Strong Tie Inc. (grout filled masonry applications)
      3. Power-Stud+SD1 (ICC-ESR-2966) by powers Fasteners Inc. (grout filled masonry applications)
   C. Follow all of the manufacturer's recommendations and ICC-ESR for mechanical anchor installation.
3. PRODUCT: Screw Anchors
   A. Screw Anchors for Concrete and grout filled Masonry connections shall be:
      1. Titen HD (ICC-ESR-2713) by Simpson Strong Tie Inc.
      2. Wedge-Bolt by Powers Fasteners Inc.
      3. Alternative screw anchors may be used if an ICC-ESR approval for use in cracked concrete is submitted to the structural engineer prior to use.
   B. Follow all of the manufacturer's recommendations and ICC-ESR for screw anchor installation.

EMBEDMENT OF ADHESIVE ANCHORS

BASE MATERIAL	REBAR DOWELS	THREADED ROD Ø	EMBEDMENT LENGTH	SCREEN LENGTH
CONCRETE	#3	3/8"	5"	--
	#4	1/2"	6"	--
	#5	5/8"	8"	--
	#6	3/4"	10"	--
	#7	7/8"	12"	--
CMU (GROUTED)	#3	3/8"	4"	--
	#4	1/2"	5"	--
	#5	5/8"	6"	--
	#6	3/4"	7"	--
CMU (HOLLOW)	#3	3/8"	--	4"
	#4	1/2"	--	5"
	#5	5/8"	--	6"
	#6	3/4"	--	7"

NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. EMBEDMENT LENGTH IS INTO STRUCTURE AND NOT VENEER, UNO.
3. REBAR SHALL BE DEFORMED.
4. MINIMUM WALL THICKNESS TO BE EMBEDMENT LENGTH PLUS 1-1/2" OTHERWISE SEE STRUCTURAL ENGINEER.
5. SEE GSN FOR EPOXY TYPES
6. FOR INSTALLATION INTO GROUTED BLOCK, SEE 15/S3.0
7. GROUT ANY HOLLOW CELLS ACCORDING TO INSTRUCTIONS GIVEN

WOOD

1. CODES AND STANDARDS. Comply with:
   A. The ANSI/AF&PA "National Design Specification", (NDS).
   B. The grading requirements of the WWPA.

2. MATERIALS: (All materials shall be clearly marked)
   A. Structural lumber species and grade shall be as follows:
      a. Joists, beams or headers: 'DF/L #2' or better.
      b. Posts and columns: 'DF/L #1' or better.
      c. Studs: 'DF/L #2' or better.
      d. Sill plates: 'DF/L #2' or better, treated.
   B. Manufactured joists: Trus-Joist or approved equal.
   C. Structural Glued-Laminated Timber: 24F-V4 for simple spans and 24F-V8 for continuous or cantilevered beams.
   D. Engineered Lumber:
      a. Structural Laminated-Veneer-Lumber (LVL): conform to the following minimum design values:
         Fb = 2,600 psi. (Joist/Beam orientation)
         Fv = 285 psi.
         E = 1,900,000 psi.
   E. Wood structural panels shall be Exposure 1 Grade or better APA rated sheathing with exterior glue and conform to Standard PS 1-83, or PS 2-92.
   F. Wood connectors shall be Simpson-Strong-Tie.

3. CONSTRUCTION:
   A. See plans for roof and floor joists sizes. Joists shall be laterally supported at bearing points by solid blocking or with metal hangers.
   B. Erect manufactured joists in accordance with the fabricator's commendations. Joists shall be able support the loads published in their design catalogs.
   C. Provide bridging at 8'-0" o.c. maximum spacing for dimensional lumber and LVL joists. Provide bridging in all other manufactured joists as per the manufacturer's recommendations.
   D. Fill all nail holes in wood connectors (framing anchors, joist hangers, purlin anchors, etc.) with nails as specified by the manufacturer, UNO.
   E. Install washers under all bolt nuts. Make bolt holes only 1/32 to 1/16 inch larger than bolts. Tighten nuts snugly, but DO NOT crush the wood. DO NOT countersink bolts, UNO.
   F. Specified nails are common and shall correspond to the following diameters and lengths: (16d -0.162"Ø & 3-1/2" long; 10d-0.148"Ø & 3" long; 8d-0.131"Ø & 2-1/2" long)
   G. Minimum nailing of members: Conform to IBC, Table 2304.9.1, UNO.
   H. Nail built-up beams of 2x_ members 12" deep or less together with 16d nails at 12" o.c., staggered. Add (2) 16d common nails at supports. Bolt 2x_ members deeper than 12" together with 1/2" bolts at 16" o.c. staggered. Add (2) bolts at supports.
   I. Fasteners in preservative-treated and fire-retardant-treated wood: Conform to IBC, Section 2304.9.5, UNO.

STATEMENT OF SPECIAL INSPECTIONS

1. The inspection requirements as noted on this sheet are required for the items that are specifically noted, designed and detailed in the structural documents. Refer to the current IBC, Chapter 17, the architectural drawings, and the geotechnical report for additional information and additional inspection requirements for non-structural items.

2. The project owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed below. The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official and/or EOR, for inspection of the particular type of construction or operation requiring special inspection. These inspections are in addition to the inspections required by the building department of the local jurisdiction.

3. Special inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the building official and to the EOR in responsible charge. Reports shall indicate that work inspected was done in conformance with approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the EOR in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.

4. Special inspections for each task shall be carried out in compliance with requirements per the current IBC and other material standards.

5. FABRICATION SHOP REQUIREMENTS
   A. Where fabrication of structural load bearing members and assemblies are being performed on the premises of a fabricators shop, special inspections required shall be provided in the shop during the fabrication process. This requirement may be excepted if the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. A certificate shall be required to verify such approval. At completion of the fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction drawings

6. TESTING: The owner will provide testing by qualified testing personnel for the following types of construction:

   Bolting: installation and correct torque and/or tension.
   Cores: strength of grout.
   Welding: type, size, length, and quality of shop and all field welds by approved methods. Ultrasonically test complete penetration welds.
   Drill and epoxy anchors: load test 10% of anchors, with a minimum of (2) anchors tested

7. THE CONTRACTOR SHALL:

   A. Coordinate testing. DO NOT proceed with subsequent work until inspections and testing has been approved.
   B. Copy inspection reports/testing results to the Arch/EOR and owner before work proceeds.
   C. Correct deficient work at no additional cost to the owner.

CONCRETE CONSTRUCTION INSPECTIONS

ITEM FOR VERIFICATION & INSPECTION	INSPECTION FREQUENCY		DETAILED INSTRUCTIONS AND FREQUENCIES
	CONTINUOUS	PERIODIC	
Reinforcing steel, including prestressing tendons	--	X	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report
Cast-in bolts & embeds	--	X	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used
Post-installed anchors or dowels	--	X	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report
Use of required mix design	--	X	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3
Concrete sampling for strength tests, slump, air content, and temperature	X	--	
Strength verification	--	X	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons
Formwork	--	X	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents

Note:
1. See also Concrete Notes Section 3(E) on GSN sheet S1.0 for structural items that require inspections and testing. Misc concrete items, i.e. bollards, stair pans, garden curb etc., need not be inspected nor tested.

TABLE OF SER AND RTER ITEMS

(all past,present and future SER and RTER Structual Upgrade Measures are included on this table)

STRUCTURAL UPGRADE MEASURES FOR 506-7901

STRUCTURAL UPGRADE MEASURES ADDRESSED PREVIOUSLY IN STRUCTURAL DRAWINGS:

ITEM	DESCRIPTION	COMMENT
	MEASURES FROM STRUCTURAL EVALUATION REPORT (SER):	
S-13	STRENGTHEN WOOD TRUSSES BY UPGRADING DEFICIENT CONNECTIONS WITH PLYWOOD GUSSET PLATES AND ADDITIONAL NAILING. FIX TRUSSES THAT HAVE BEEN MODIFIED FOR INSTALLATION OF MECHANICAL EQUIPMENT.	ADRESSED IN 2012 MECHANICAL UPGRADE
	MEASURES FROM ROOF TRUSS EVALUATION REPORT (RTER):	
NA	NO RECORDED ITEMS	NA

STRUCTURAL UPGRADE MEASURES ADDRESSED IN THESE STRUCTURAL DRAWINGS:

ITEM	DESCRIPTION	COMMENT
	MEASURES FROM STRUCTURAL EVALUATION REPORT (SER):	
S-1	STRENGTHEN DIAPHRAGM BY ADDING A NEW OVERLAY ON THE EXISTING 1X SHEATHING AND ADDITIONAL STRAPPING, AND BLOCKING AS REQUIRED.	ADDRESSED IN THESE DRAWINGS
S-5	ADD ADDITIONAL OUT-OF-PLANE WALL ANCHORS AND STEEL STRAPPING TO CONNECT TRUSSES, JOISTS, AND WOOD DIAPHRAGM TO MASONRY WALLS. ADD BLOCKING, CLIPS, AND BOLTING TO STRENGTHEN AND PROVIDE IN-PLANE SHEAR TRANSFER FROM WOOD DIAPHRAGM INTO MASONRY WALLS.	ADDRESSED IN THESE DRAWINGS
S-6	PROVIDE BLOCKING AND CLIPS FOR SHEAR TRANSFER. PROVIDE PONY WALLS AT 24" O.C. BELOW OVERBUILD FRAMING TO PROVIDE UNIFORM LOADING TO TRUSSES BELOW.	ADDRESSED IN THESE DRAWINGS
S-8	PROVIDE BLOCKING AND CLIPS AT ATTACHMENT OF ENTRANCE CANOPIES	ADDRESSED IN THESE DRAWINGS
S-11	PROVIDE STRAPPING, BLOCKING, AND TIES TO PROVIDE CONTINUOUS TIES ACROSS THE DIAPHRAGM.	ADDRESSED IN THESE DRAWINGS
S-14	ADD ADDITIONAL LVL MEMBERS TO THE EXISTING BEAM. JACK THE BEAM LEVEL AND PROVIDE TEMPORARY SUPPORT PRIOR TO INSTALLATION OF LVL MEMBERS.	ADDRESSED IN THESE DRAWINGS
S-15	STRENGTHEN TRUSS T-5 BY ADDING AN ADDITIONAL 2X6 TO THE TOP CHORD AND A GUSSET PLATE AT BEARING.	ADDRESSED IN THESE DRAWINGS
S-16	PROVIDE HANGERS FROM JOISTS TO SUPPORTING MEMBER TO PROVIDE POSITIVE ATTACHMENT. PROVIDE NEW BEAM/SUPPORT BELOW THE 1X SHEATHING WHERE SUPPORTING ROOF OVERBUILD FRAMING.	ADDRESSED IN THESE DRAWINGS
S-17	PROVIDE NEW 3X RIDGE BLOCKING IN THE CHAPEL AND NORTH AND SOUTH WING.	ADDRESSED IN THESE DRAWINGS
D-1	REMOVE AND REPLACE THE ROTTING WOOD MEMBERS.	ADDRESSED IN THESE DRAWINGS
	MEASURES FROM ROOF TRUSS EVALUATION REPORT (RTER):	
NA	NO RTER ITEMS	NONE

STRUCTURAL UPGRADE MEASURES NOT ADDRESSED PREVIOUSLY OR IN THESE STRUCTURAL DRAWINGS:

ITEM	DESCRIPTION	COMMENT
	MEASURES FROM STRUCTURAL EVALUATION REPORT (SER):	
S-2	REMOVE PORTIONS OF UNREINFORCED MASONRY WALLS AND REPLACE WITH NEW REINFORCED WALLS; ATTACH WALLS TO FOUNDATION WALL BELOW, AND CONCRETE BOND BEAM ABOVE. PROVIDE A ROOF DRAG AND SHEATHING ON THE EAST CHAPEL WALL ABOVE THE GLASS PARTITION WALL	UPGRADE DURING NEXT R&I
S-3	REMOVE PORTIONS OF UNREINFORCED MASONRY WALLS AND REPLACE WITH NEW REINFORCED WALLS; ATTACH WALLS TO FOUNDATION WALL BELOW, AND CONCRETE BOND BEAM ABOVE.	UPGRADE DURING NEXT R&I
S-4	REMOVE SECTIONS OF WALL AND ADD NEW REINFORCED MASONRY CHASES TO STRENGTHEN OUT OF PLANE CAPACITY OF MASONRY WALLS	UPGRADE DURING NEXT R&I
S-7	ADD MASONRY CHASE OR NEW STEEL SECTIONS TO STRENGTHEN WALLS OF SPIRE STRUCTURE. ADD HELICAL PIERS TO STRENGTHEN SPIRE FOR OVERTURNING	UPGRADE DURING NEXT R&I
S-9	PROVIDE OUT OF PLANE ATTACHMENT OF FLOOR JOISTS TO MASONRY WALLS AND FLOOR DIAPHRAGM. ADD NEW BLOCKING, CLIPS, AND BOLTING FOR IN PLANE SHEAR TRANSFER INTO SUPPORTING MASONRY WALLS.	UPGRADE DURING NEXT R&I
S-10	STRENGTHEN FLOOR DIAPHRAGM BY ADDING A NEW OVERLAY ON THE EXISTING 1X DIAGONAL SHEATHING. ADD A NEW CHORD AROUND THE PERIMETER.	UPGRADE DURING NEXT R&I
S-12	PROVIDE STRAPPING BLOCKING AND TIES TO PROVIDE CONTINUOUS TIES ACROSS THE DIAPHRAGM	UPGRADE DURING NEXT R&I
S-18	PROVIDE MASONRY CHASE AROUND THE STAIRS SIMILAR TO S-4.	UPGRADE DURING NEXT R&I
S-19	PROVIDE STEEL ANGLE AND BOLTED CONNECTION FOR POSITIVE ATTACHMENT FROM THE PIER TO THE GIRDER.	UPGRADE DURING NEXT R&I
D-2	REMOVE AND REPLACE ROTTING WOOD MEMBERS.	UPGRADE DURING NEXT R&I
NS-1	REPLACE GLAZING IN THE EAST WALL OF THE CHAPEL.	UPGRADE DURING NEXT R&I
NS-2	PROVIDE ATTACHMENT OF INTERIOR MASONRY VENEER IN THE CHAPEL. REPOINT THE MASONRY AT THE TIME OF THE UPGRADE.	UPGRADE DURING NEXT R&I
	MEASURES FROM ROOF TRUSS EVALUATION REPORT (RTER):	
None	NONE. STRUCTURAL UPGRADE MEASURES FOR ROOF TRUSSES ARE COMPLETE.	NONE

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ISSUE: FEB. 11, 2014
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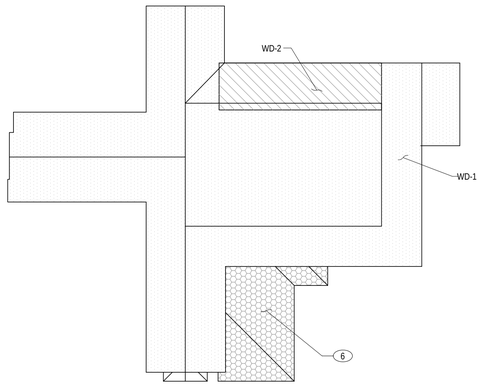
DRAWN BY: WCA
CHECKED BY: CC

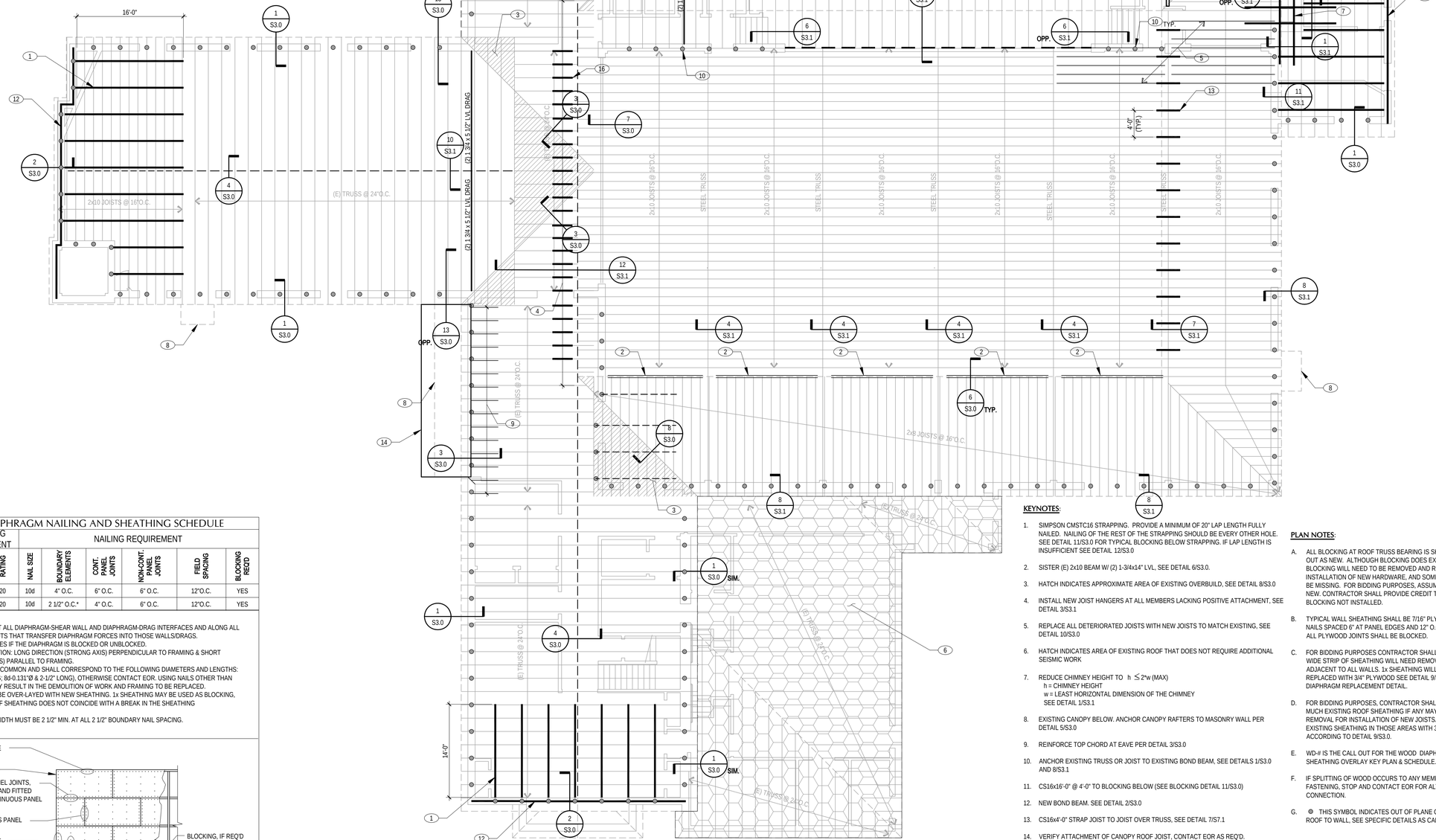
SHEET TITLE

GENERAL STRUCTURAL NOTES (GSN)

S1.0



SHEATHING OVERLAY KEY PLAN
SCALE: NO SCALE



CANOPY FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

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

WOOD DIAPHRAGM NAILING AND SHEATHING SCHEDULE

MARK	SHEATHING REQUIREMENT		NAILING REQUIREMENT					
	THICK	SPAN RATING	NAIL SIZE	BOUNDARY ELEMENTS	CONT. PANEL JOINTS	NON-CONT. PANEL JOINTS	FIELD SPACING	BLOCKING REQ'D
WD-1[5]	19/32"	40/20	10d	4" O.C.	6" O.C.	6" O.C.	12"O.C.	YES
WD-2[*]	19/32"	40/20	10d	2 1/2" O.C.*	4" O.C.	6" O.C.	12"O.C.	YES

1. BOUNDARIES EXIST AT ALL DIAPHRAGM-SHEAR WALL AND DIAPHRAGM-DRAG INTERFACES AND ALONG ALL STRUCTURAL ELEMENTS THAT TRANSFER DIAPHRAGM FORCES INTO THOSE WALLS/DRAGS.
2. THIS JOINT DETERMINES IF THE DIAPHRAGM IS BLOCKED OR UNBLOCKED.
3. SHEATHING ORIENTATION: LONG DIRECTION (STRONG AXIS) PERPENDICULAR TO FRAMING & SHORT DIRECTION (WEAK AXIS) PARALLEL TO FRAMING.
4. SPECIFIED NAILS ARE COMMON AND SHALL CORRESPOND TO THE FOLLOWING DIAMETERS AND LENGTHS: (10d-0.148"Ø & 3" LONG; 8d-0.131"Ø & 2-1/2" LONG), OTHERWISE CONTACT EOR. USING NAILS OTHER THAN THOSE SPECIFIED MAY RESULT IN THE DEMOLITION OF WORK AND FRAMING TO BE REPLACED.
5. (E) 1x SHEATHING TO BE OVER-LAYED WITH NEW SHEATHING. 1x SHEATHING MAY BE USED AS BLOCKING, PROVIDE THE EDGE OF SHEATHING DOES NOT COINCIDE WITH A BREAK IN THE SHEATHING

* FRAMING OR BLOCKING WIDTH MUST BE 2 1/2" MIN. AT ALL 2 1/2" BOUNDARY NAIL SPACING.

KEYNOTES:

1. SIMPSON CMSTC16 STRAPPING. PROVIDE A MINIMUM OF 20" LAP LENGTH FULLY NAILED. NAILING OF THE REST OF THE STRAPPING SHOULD BE EVERY OTHER HOLE. SEE DETAIL 11/S3.0 FOR TYPICAL BLOCKING BELOW STRAPPING. IF LAP LENGTH IS INSUFFICIENT SEE DETAIL 12/S3.0
2. SISTER (E) 2x10 BEAM W/ (2) 1-3/4x14" LVL, SEE DETAIL 6/S3.0.
3. HATCH INDICATES APPROXIMATE AREA OF EXISTING OVERBUILD, SEE DETAIL 8/S3.0
4. INSTALL NEW JOIST HANGERS AT ALL MEMBERS LACKING POSITIVE ATTACHMENT, SEE DETAIL 3/S3.1
5. REPLACE ALL DETERIORATED JOISTS WITH NEW JOISTS TO MATCH EXISTING, SEE DETAIL 10/S3.0
6. HATCH INDICATES AREA OF EXISTING ROOF THAT DOES NOT REQUIRE ADDITIONAL SEISMIC WORK
7. REDUCE CHIMNEY HEIGHT TO h ≤ 2"w (MAX)
   h = CHIMNEY HEIGHT
   w = LEAST HORIZONTAL DIMENSION OF THE CHIMNEY
   SEE DETAIL 1/S3.1
8. EXISTING CANOPY BELOW. ANCHOR CANOPY RAFTERS TO MASONRY WALL PER DETAIL 5/S3.0
9. REINFORCE TOP CHORD AT EAVE PER DETAIL 3/S3.0
10. ANCHOR EXISTING TRUSS OR JOIST TO EXISTING BOND BEAM, SEE DETAILS 1/S3.0 AND 8/S3.1
11. CS16x16'-0" @ 4'-0" TO BLOCKING BELOW (SEE BLOCKING DETAIL 11/S3.0)
12. NEW BOND BEAM. SEE DETAIL 2/S3.0
13. CS16x4'-0" STRAP JOIST TO JOIST OVER TRUSS, SEE DETAIL 7/S7.1
14. VERIFY ATTACHMENT OF CANOPY ROOF JOIST, CONTACT EOR AS REQ'D.
15. WOOD SHEAR WALL, SEE DETAIL 9/S3.1
16. SIMPSON CS16x36" COIL STRAP EACH JOIST NAIL EACH HOLE.

PLAN NOTES:

A. ALL BLOCKING AT ROOF TRUSS BEARING IS SHOWN AND CALLED OUT AS NEW. ALTHOUGH BLOCKING DOES EXIST, SOME OF THE BLOCKING WILL NEED TO BE REMOVED AND REPLACED FOR INSTALLATION OF NEW HARDWARE, AND SOME BLOCKING MAY BE MISSING. FOR BIDDING PURPOSES, ASSUME ALL BLOCKING IS NEW. CONTRACTOR SHALL PROVIDE CREDIT TO OWNER FOR BLOCKING NOT INSTALLED.

B. TYPICAL WALL SHEATHING SHALL BE 7/16" PLYWOOD/OSB W/ 10d NAILS SPACED 6" AT PANEL EDGES AND 12" O.C. IN THE FIELD. ALL PLYWOOD JOINTS SHALL BE BLOCKED.

C. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME A 4'-0" WIDE STRIP OF SHEATHING WILL NEED REMOVED AND REPLACED ADJACENT TO ALL WALLS. 1x SHEATHING WILL NEED TO BE REPLACED WITH 3/4" PLYWOOD SEE DETAIL 9/S3.0 FOR TYPICAL DIAPHRAGM REPLACEMENT DETAIL.

D. FOR BIDDING PURPOSES, CONTRACTOR SHALL DETERMINE HOW MUCH EXISTING ROOF SHEATHING IF ANY MAY REQUIRE REMOVAL FOR INSTALLATION OF NEW JOISTS. REPLACE EXISTING SHEATHING IN THOSE AREAS WITH 3/4" SHEATHING ACCORDING TO DETAIL 9/S3.0.

E. WD-# IS THE CALL OUT FOR THE WOOD DIAPHRAGMS, SEE SHEATHING OVERLAY KEY PLAN & SCHEDULE.

F. IF SPLITTING OF WOOD OCCURS TO ANY MEMBER WHILE FASTENING, STOP AND CONTACT EOR FOR ALTERNATE CONNECTION.

G. ⊕ THIS SYMBOL INDICATES OUT OF PLANE CONNECTION OF ROOF TO WALL, SEE SPECIFIC DETAILS AS CALLED OUT ON PLAN.

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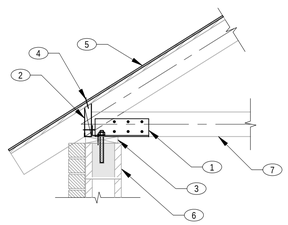
SHEET TITLE

ROOF FRAMING PLAN

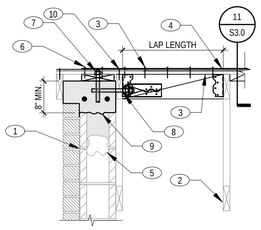
S2.0



KEYNOTE:

1. STEEL ANGLE AT 48" O.C. w/ (6) 1/4"x2" SDS SCREWS, SEE DETAIL 14/S3.0
2. FULL HEIGHT BLOCKING WITH SIMPSON LS50 EACH BLOCK; USE 3x BLOCKING AT WD-2 (BLOCKING ALREADY EXISTS AT SIM.)
3. (E) SILL PLATE W/ NEW 3/4" SHEAR BOLTS AT 48" O.C.
4. REQ'D PANEL BOUNDARY NAILING (NAILING ALREADY EXISTS AT SIM.)
5. ROOF SHEATHING, SEE PLANS
6. (E) MASONRY WALL WITH BOND BEAM
7. (E) TRUSS

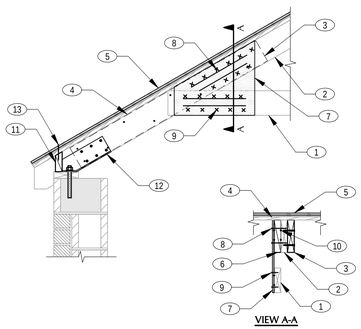
1 TRUSS TO WALL CONNECTION
S3.0 — NO SCALE



KEYNOTES:

1. (E) MASONRY WALL W/ NEW BOND BEAM (REMOVE TOP OF WALL AS REQ'D TO INSTALL)
2. (E) ROOF TRUSS
3. (E) 1x SHEATHING W/ NEW PLYWOOD OVERLAY, SEE PLAN & SCHEDULE
4. SIMPSON CONT. STRAP, SEE PLAN FOR REQ'D LENGTH AND TYPE
5. PAPER DAM
6. BOUNDARY NAILING
7. 5/8" Ø ANCHOR INTO 2x6 SILL PLATE (SEE DETAIL 15/S3.0)
8. 5/8" Ø EPXOY ANCHOR (SEE DETAIL 15/S3.0) W/ SIMPSON HDU2 HOLD DOWN @ 4'-0" O.C. ATTACH TO 3x BLOCKING W/ SIMPSON LS0 EACH END
9. NEW CONC. BOND BEAM W/ (2) #5 BARS
10. BOUNDARY NAILING, SEE PLAN

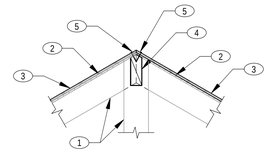
2 ROOF CONNECTION AT GABLE END
S3.0 — NO SCALE



KEYNOTES:

1. (E) 2x6 BOTTOM CHORD
2. (E) 2x6 TOP CHORD
3. (N) 2x6x4'-0" SISTER W/ SIMPSON SDS25300 @ 6" O.C., STAGGERED
4. (E) 1x SHEATHING
5. (N) ROOF SHEATHING OVERLAY, SEE KEY PLAN & SCHEDULE
6. NEW 2x SHAPED BLOCKING @ PLYWOOD GUSSET
7. 5/8" PLYWOOD GUSSET ONE SIDE. PROVIDE (2) 3/8" Ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN PLYWOOD & TRUSS MEMBER & BLOCKING
8. (10) 16d COMMON
9. (10) 10d COMMON
10. (2) 3/8"Ø BEADS CONSTRUCTION ADHESIVE BETWEEN BLOCKING & TRUSS MEMBER, SEE PLAN FOR APPROVED ADHESIVE
11. 2x BLOCKING WITH L50 CLIP EACH BLOCK
12. STEEL ANGLE @ 48"O.C. WITH (6) 1/4x2" SDS SCREWS, SEE DETAIL 14/S3.0 SIM.
13. PANEL BOUNDARY NAILING, SEE PLAN

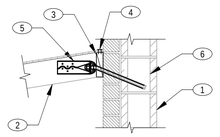
3 DETAIL
S3.0 — NO SCALE



KEYNOTES:

1. (E) TRUSS MEMBER
2. (E) 1x SHEATHING
3. (N) ROOF SHEATHING OVERLAY, SEE SCHEDULE
4. NEW 3x RIDGE BLOCKING
5. REQ'D EDGE NAILING

4 DETAIL
S3.0 — NO SCALE



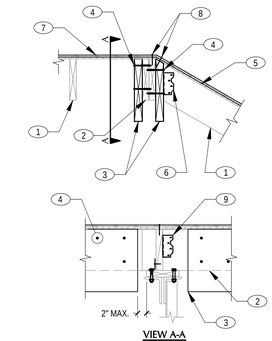
KEYNOTES:

1. (E) MASONRY WALL
2. (E) CANOPY JOISTS
3. FULL-HEIGHT 2x BLOCKING
4. CS16 x CONTINUOUS STRAP
5. SIMPSON HDU2* W/ 5/8"Ø DRILL & EPOXY ANCHORS @ 48" O.C. (SEE DETAIL 15/S3.0)
6. GROUT UNGROUTED CELLS PER 15/S3.0

NOTS:

* FOR STEEL CANOPY RAFTER CONDITION, USE SIMPSON S/HDU4 HOLDOWNS

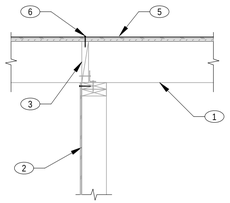
5 TYPICAL CANOPY CONNECTION
S3.0 — NO SCALE



KEYNOTES:

1. (E) ROOF JOIST
2. (E) BEAM
3. LVL BEAMS, SEE PLAN
4. SIMPSON SDW22638 SCREWS @ 12" O.C., STAGGER TOP & BOTTOM, EACH SIDE
5. (E) 1x SHEATHING
6. SIMPSON LS70, EACH JOIST
7. PLYWOOD SHEATHING OVERLAY, SEE KEY PLAN & SCHED.
8. BOUNDARY NAILING, SEE SCHEDULING
9. SEE DETAIL 4/S3.1 FOR DIAPHRAGM CONNECTION TO TRUSS

6 (N) LVL SISTER AT (E) BEAM
S3.0 — NO SCALE



KEYNOTES:

1. SIMPSON STRAP, SEE PLANS FOR LENGTH AND TYPE
2. (E) ROOF SHEATHING AND OVERLAY, SEE PLAN FOR VERIFICATION OF NAILING
3. 3x4 BLOCKING, UNO (SEE SPECIFIC DETAILS) W/ SIMPSON Z38 @ BOTH ENDS

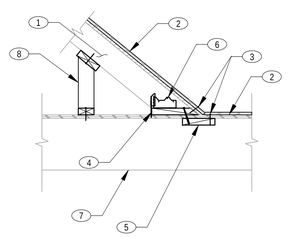
NOTES:

A. ALL BLOCKING: USE HEM-FIR #1 OR BTR GRADE.

B. REMOVE AND REPLACE ANY SPLIT BLOCKING. USE 3x BLOCKING PRE-DRILL HOLES W/ 7/64"Ø BOT FOR 10d COMMON NAILS & 3/32"Ø BIT FOR 8d COMMON NAILS

C. NAILING OF ALL ROOF STRAPS IS EVERY OTHER HOLE EXCEPT AS NOTED OR WHERE STRAPS LAP ONTO FULL HEIGHT BLOCKING

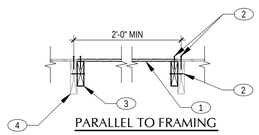
7 DETAIL
S3.0 — NO SCALE



KEYNOTES:

1. REQ'D PANEL BOUNDARY NAILING, SEE SCHEDULE
2. ROOF SHEATHING, SEE KEY PLAN
3. SIMPSON STRAPS, SEE PLANS
4. 4x BLOCKING OR DOUBLE 2x BLOCKING GLUED AND NAILED WITH (10) 10d NAILS
5. SIMPSON HDU2 (SEE SPECIFIC DETAILS)
6. 5/8"Ø ROD WITH COUPLER NUT
7. ADDITIONAL SIMPSON HDU2 IS REQUIRED WHEN STRAP LAP LENGTH EXCEEDS THE LENGTH OF THE FIRST BAY OF BLOCKING

8 OVERBUILD CONNECTION
S3.0 — NO SCALE



KEYNOTES:

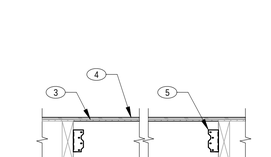
1. MATCHING REPLACEMENT SHEATHING (3'-0" MIN. WIDTH)
2. REQ'D PANEL EDGE NAILING
3. SISTERED 2x6 CONT. BLOCKING W/ 16d NAILS AT 6" O.C.
4. (E) FRAMING.
5. 2x4 FLAT BLOCKING

NOTES:

A. ALL BLOCKING: USE HEM-FIR #1 OR BTR GRADE.

B. AREAS WHERE 1x AND PLYWOOD OVERLAYS ARE REMOVED WILL REQUIRE NEW 3/4" PLYWOOD TO REPLACE 1x ALONG WITH NEW OVERLAY SHEATHING MATCHING EXISTING. SEE PLAN NOTE D ON SHEET S2.0

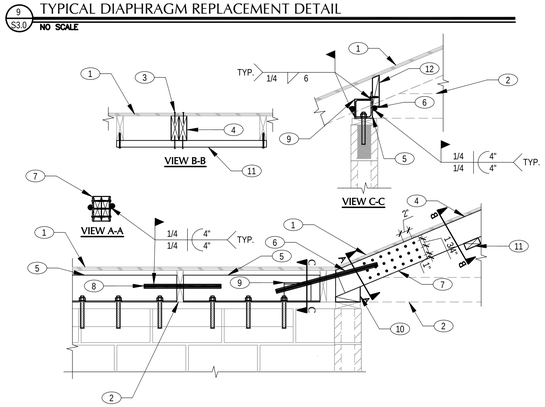
9 TYPICAL DIAPHRAGM REPLACEMENT DETAIL
S3.0 — NO SCALE



KEYNOTES:

1. (E) BEAM
2. (N) JOIST, SEE PLAN
3. (E) 1x SHEATHING
4. (N) SHEATHING, SEE PLAN & SCHED.
5. SIMPSON LS70, EACH END

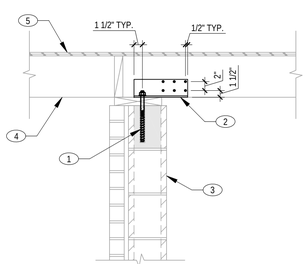
10 (N) LVL SISTER AT (E) BEAM
S3.0 — NO SCALE



KEYNOTES:

1. (E) ROOF SHEATHING, SEE WOOD DIAPHRAGM AND PLANS FOR ADDITIONAL NAILING
2. WOOD TRUSS BEYOND
3. (2) ROWS OF REQ'D. BOUNDARY NAILING
4. LVL DRAG SEE PLANS
5. L4x6x5/16 STEEL ANGLE (LLV) WITH (3) 3/4" ANCHOR BOLTS INTO MASONRY BOND BEAM.
6. (2) 7/8Ø RODS
7. 5/16"x5 1/2x 20" STEEL PLATES EACH SIDE OF LVL DRAG. INSTALL (20) 1/4"x3" SDS SCREWS EACH PLATE.
8. (1) 7/8"Ø ROD. DRILL 1" HOLE THROUGH TRUSS.
9. 5/16" BENT PLATE 4" TALL A MINIMUM OF 6" LONG.
10. SHAPED BLOCK AT BEARING OF DRAG
11. 2X4 DRAG BRACING AT 48" O.C. WITH (2)# 8 SCREWS 3" LONG EACH END.
12. 2X BLOCKING WITH (2) 1/4" x 2" SDS SCREWS EACH BLOCK.

11 DETAIL
S3.0 — NO SCALE



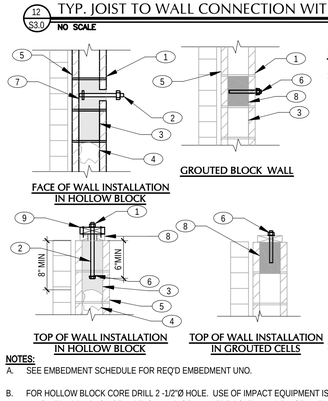
KEYNOTES:

1. 3/4"Ø ANCHOR BOLT, SEE DETAIL 15/S3.0
2. L4x4x1/4" ANGLE 12" LONG
3. MASONRY WALL (WALL CONSTRUCTION MAY BE DIFFERENT THAN SHOWN)
4. ROOF JOIST/TRUSS AND FRAMING (CONSTRUCTION MAY BE DIFFERENT THAN SHOWN)
5. SHEATHING, SEE PLAN AND SCHEDULE

NOTES:

AT SIM., MODIFY ANGLE TO MATCH SLOPE OF JOIST. PROVIDE 3" BEARING PLATE.

12 TYPICAL STEEL STRAPPING
S3.0 — NO SCALE



KEYNOTES:

1. IF EMBED CANNOT BE OBTAINED OR IF BLOCK WALL IS THINNER THAN 8", CONTACT EOR
2. BOLT LOCATED IN CENTER OF BLOCK; USE DOUBLE NUT AT END OF BOLT
3. GROUT CELL BENEATH BOLT
4. PAPER DAM
5. HOLLOW BLOCK WALL
6. THREADED ANCHOR BOLT EPOXIED IN GROUTED CELLS, SEE GSN FOR EPOXY TYPES & EMBEDMENTS; FOLLOW MFR. INSTALLATION INSTRUCTIONS
7. 1/2" BETWEEN INTERIOR FACE SHELL AND WASHER
8. GROUTED MASONRY WALL
9. DRILL 2 1/2" Ø HOLE IN EXISTING PLATE TO GROUT TOP COURSE OF BLOCK. PLACE GROUT AS SHOWN FILLING TO TOP OF WALL PLATE.
10. 2X BLOCK MATCHING SIZE OF PLATE WITH (8) 10d COMMON NAILS (4) EACH SIDE OF NEW ANCHOR BOLT. EXTRA PLATE NOT REQUIRED WHEN ATTACHING STEEL ANGLE IN DETAIL 14/S3.0

NOTES:

A. SEE EMBEDMENT SCHEDULE FOR REQ'D EMBEDMENT UNO.

B. FOR HOLLOW BLOCK CORE DRILL 2 -1/2"Ø HOLE. USE OF IMPACT EQUIPMENT IS NOT ALLOWED. DRY PACK CELL BELOW AND CELL WHERE BOLT WILL BE INSTALLED

13 DRAG CONNECTION AT EXISTING MASONRY WALL
S3.0 — NO SCALE

14 TYPICAL ANGLE DETAIL
S3.0 — NO SCALE

15 ANCHOR BOLTS IN CMU BLOCK WALLS
S3.0 — NO SCALE

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REVISIONS

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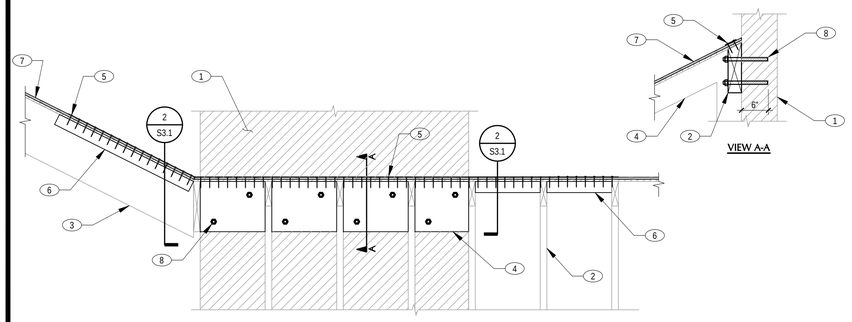
SHEET TITLE

STRUCTURAL DETAILS

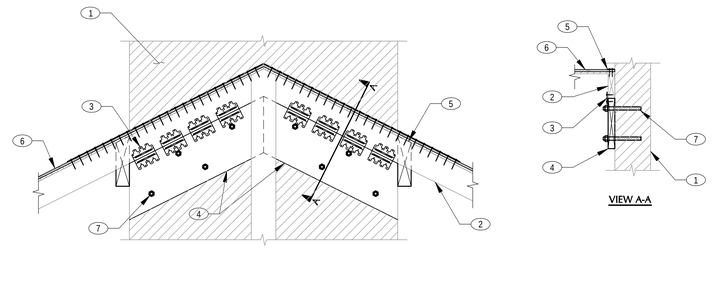
S3.0



KEYNOTES:

1. (E) MASONRY CHIMNEY (REDUCE CHIMNEY HEIGHT PER KEYNOTE 7 ON PLAN)
2. (E) ROOF TRUSS
3. (E) ROOF JOIST
4. 3x12 SHAPED BLOCKING
5. CMST14x10'-0"W/ 10d NAILS FILL EACH HOLE
6. BLOCKING, SEE 11/S3.0
7. NEW SHEATHING, SEE KEY PLAN & SCHED.
8. (2) ROWS 3/4"Ø DRILL & EPOXY ANCHORS @ 16" O.C. OR (2) BRICK WIDTHS. (6) BOLTS MIN. DO NOT DRILL ANCHORS IN MORTAR JOINTS.

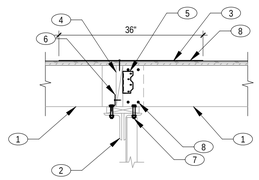
1 S3.1 CHIMNEY STRAP DETAIL
NO SCALE



KEYNOTES:

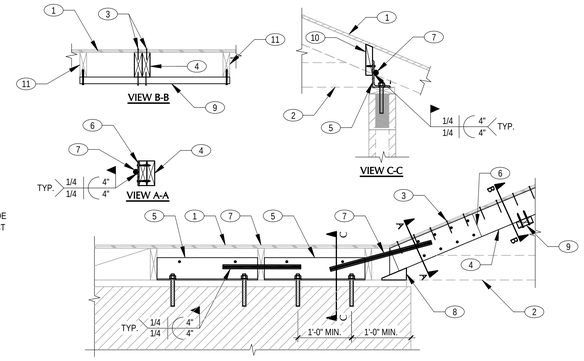
1. (E) MASONRY CHIMNEY (REDUCE CHIMNEY HEIGHT PER KEYNOTE 7 ON PLAN)
2. (E) ROOF TRUSS
3. (8) SIMPSON LTP5 CLIPS FROM TOP CHORD TO BLOCKING
4. 2x12 BLOCKING
5. CS16x8'-0" 10d NAIL EACH CIRCULAR HOLE
6. NEW SHEATHING, SEE PLAN & SCHED.
7. (2) ROWS 3/4"Ø DRILL & EPOXY ANCHORS @ 16" O.C. OR (2) BRICK WIDTHS. (6) BOLTS MIN. DO NOT DRILL ANCHORS IN MORTAR JOINTS.

2 S3.1 CHIMNEY STRAP DETAIL
NO SCALE



KEYNOTES:

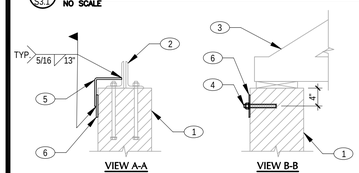
1. (E) ROOF JOIST
2. (E) TRUSS
3. (E) SHEATHING WITH PLYWOOD OVERLAY, SEE PLAN & SCHEDULE
4. (E) BLOCKING
5. LS50, EACH JOIST
6. LS50, EACH BLOCK
7. 5/8"Ø THRU BOLT AT 32" O.C. MIN. (VERIFY EXISTING OR INSTALL NEW) STAGGER
8. VERIFY (4) 16d NAILS @ OVERLAP OR PROVIDE SIMPSON CS16 STRAP @ 48"O.C. TO CONNECT JOISTS

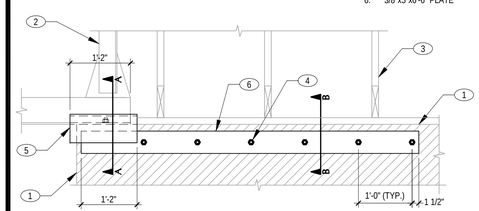


KEYNOTES:

1. (E) ROOF SHEATHING, SEE PLAN & SCHEDULE FOR ADDITIONAL NAILING
2. WOOD TRUSS BEYOND
3. (2) ROWS OF REQ'D. BOUNDARY NAILING
4. LVL DRAG, SEE PLANS
5. L4x6x5/16 STEEL ANGLE WITH (2) 3/4" ANCHOR BOLTS INTO MASONRY BOND BEAM
6. 1/4x5 1/2x18" STEEL PLATE W/ (8) 1/4"x3" SDS SCREWS
7. (1) 7/8"Ø ROD. DRILL 1" HOLE THROUGH TRUSS.
8. SHAPED BLOCK AT BEARING OF DRAG
9. 2x4 BRACING AT 48" O.C. WITH (2) # 8 SCREWS 3" LONG EACH END.
10. 2x BLOCKING WITH (2) 1/4" x 2" SDS SCREWS
11. (E) JOIST OR TOP CHORD

3 S3.1 NOT USED
NO SCALE

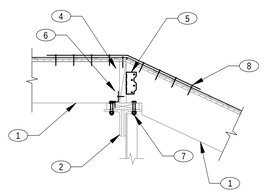




KEYNOTES:

1. (E) MASONRY WALL W/ CONC. BOND BEAM
2. (E) STEEL TRUSS
3. (E) WOOD TRUSS
4. (6) 3/4"Ø DRILL & EPOXY ANCHORS INTO CONC. BOND BEAM, SEE DETAIL 15/S3.0
5. 3/8"x1'-0"x1'-4" BENT PLATE
6. 3/8"x5"x6'-6" PLATE

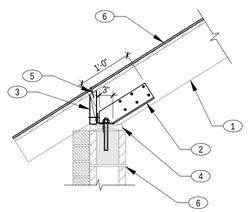
4 S3.1 DETAIL
NO SCALE



KEYNOTES:

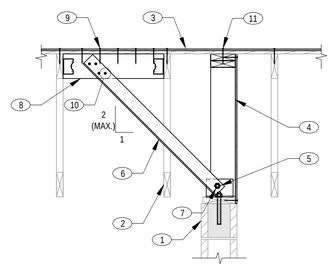
1. (E) ROOF JOIST
2. (E) TRUSS
3. (E) SHEATHING WITH PLYWOOD OVERLAY, SEE PLAN & SCHEDULE
4. (E) BLOCKING
5. LS50, EACH JOIST
6. LS50, EACH BLOCK
7. 5/8"Ø THRU BOLT AT 32" O.C. MIN. (VERIFY EXISTING OR INSTALL NEW) STAGGER
8. SIMPSON STRAP, SEE PLAN (INSTALL STRAP ON SAME SLOPED JOIST AS NEW STEEL ANGLE ANCHOR; SEE 8/S3.1)

5 S3.1 DETAIL
NO SCALE



KEYNOTE:

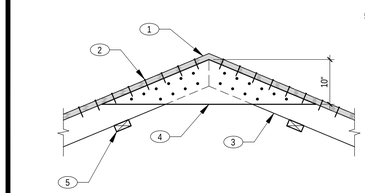
1. (E) ROOF JOIST
2. STEEL ANGLE AT 48" O.C. w/ (6) 1/4"xZ" SDS SCREWS, SEE DETAIL 14/S3.0, SIM.
3. FULL HEIGHT BLOCKING WITH SIMPSON LS50 EACH BLOCK
4. (E) SILL PLATE W/ NEW 3/4" SHEAR BOLTS AT 48" O.C. (SEE 15/S3.0)
5. REQ'D PANEL BOUNDARY NAILING
6. ROOF SHEATHING, SEE KEY PLAN
7. (E) MASONRY WALL WITH BOND BEAM



KEYNOTES:

1. (E) MASONRY WALL
2. (E) ROOF TRUSS
3. ROOF SHEATHING, SEE KEY PLAN & SCHEDULE
4. 2x6 @ 16" O.C. SHEAR WALL W/ 7/16" SHEATHING, 6" EDGE NAILING & 12" FIELD NAILING
5. L4x4x1/4x0'-6" @ 48" O.C. W/ 5/8" DRILL & EPOXY ANCHOR (SEE DETAIL 15/S3.0)
6. L3x3x1/4x REQ'D STEEL BRACE @ 48"O.C.
7. 3/4"Ø BOLT, BRACE TO ANGLE
8. 2x BLOCKING W/ LS50 EACH END
9. (6) 10d NAILS MIN.
10. (4) 1/4"x1-1/2" SDS SCREWS
11. BOUNDARY NAILING, SEE SCHEDULE

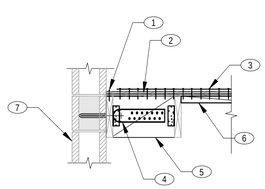
6 S3.1 DETAIL
NO SCALE



KEYNOTES:

1. (E) ROOF SHEATHING, SEE WOOD DIAPHRAGM AND PLANS FOR ADDITIONAL NAILING
2. (2) ROWS OF REQ'D. BOUNDARY NAILING
3. LVL DRAG SEE PLANS
4. 1/4" STEEL PLATE w/ (20) 1/4"x3" SDS SCREWS
5. 2x4 DRAG BRACING AT 48" O.C. WITH (2) #8 SCREWS 3" LONG EACH END.

7 S3.1 DETAIL
NO SCALE

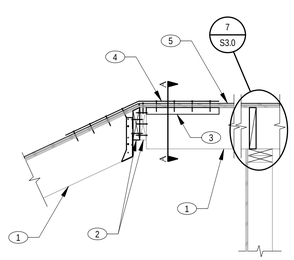


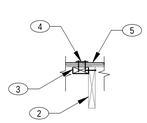
KEYNOTES:

1. REQ'D PANEL BOUNDARY NAILING, SEE SCHEDULE
2. (E) SHEATHING WITH PLYWOOD OVERLAY, SEE PLAN AND SCHEDULE
3. SIMPSON CMSTC16 STRAP, ALIGNED W/ HOLDOWN. SEE PLAN FOR LENGTH
4. SIMPSON HDU2 HOLD DOWN WITH 5/8"Ø ANCHOR BOLTS @ 48"O.C., SEE DETAIL 15/S3.0
5. 3x BLOCKING WITH SIMPSON LS30 EACH END
6. 3x FLAT BLOCKING, SEE 11/S3.0
7. (E) BLOCK WALL

NOTE: WHERE LAP LENGTH IS NOT ATTAINABLE IN (1) JOIST/TRUSS BAY, SEE DETAIL12/S3.0

8 S3.1 JOIST TO WALL CONNECTION
NO SCALE

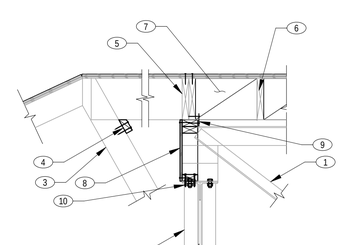




KEYNOTES:

1. (E) ROOF FRAMING PROVIDE SIMPSON HU FACE MOUNT HANGER
2. (E) 2x MEMBER WITH MATCHING MEMBER SISTERED WITH (2) 16d NAILS @ 6"O.C. PROVIDE SIMPSON HU FACE MOUNT HANGER
3. 2x REQ'D. BLOCKING
4. SIMPSON COIL STRAP, SEE PLAN
5. (E) 1x SHEATHING WITH NEW OVERLAY, SEE PLAN

9 S3.1 DETAIL
NO SCALE



KEYNOTES:

1. (E) STEEL TRUSS
2. (E) STEEL GIRDER
3. (E) WOOD TRUSS
4. (E) 2x LEDGER
5. (E) 2x GIRDER BEAM
6. (E) 2x JOIST
7. (E) OR NEW 2x BLOCK, SEE DETAIL 4/S3.1
8. 2x4 WALL STUDS @ 16"O.C. WITH 7/16" OSB SHEATHING WITH 10d NAILS @ 6"O.C. AND AT ALL PANEL AND BOUNDARY EDGES. FULLY BLOCK PANEL EDGES. PROVIDE DOUBLE 2x TOP PLATE AND SINGLE 2x BOTTOM PLATE
9. SIMPSON LTP5 CLIP @ 16"O.C.
10. SIMPSON TB1475S SCREW @ 6"O.C. STAGGERED FROM BOTTOM PLATE TO STEEL TRUSS TOP CHORD

10 S3.1 DETAIL
NO SCALE

11 S3.1 DETAIL
NO SCALE

12 S3.1 DETAIL
NO SCALE

13 S3.1 DETAIL
NO SCALE

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REVISIONS

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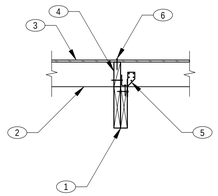
SHEET TITLE

STRUCTURAL DETAILS

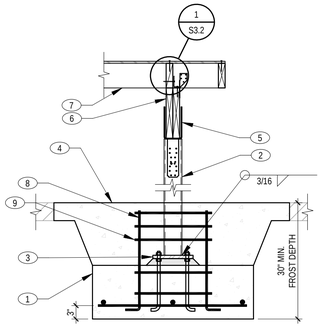
S3.1



KEYNOTES:

1. CANOPY BEAM, SEE PLAN
2. CANOPY JOIST, SEE PLAN
3. ROOF SHEATHING, WD-1 SEE DIAPHRAGM SCHEDULE. DISREGARD NOTE 5
4. 2x BLOCKING WITH SIMPSON LS50 CLIP EACH BLOCK
5. SIMPSON H1 CLIP EACH JOIST
6. BOUNDARY NAILING, SEE SCHED.

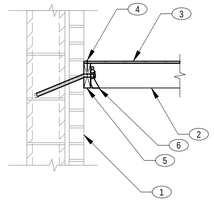
1 S3.2 DETAIL
NO SCALE



KEYNOTES:

1. 2'x2'x12" FOOTING WITH (3) #4 BARS EACH DIRECTION
2. HSS COL. SEE PLAN
3. PLATE 3/4x9x9" STEEL PLATE WITH (4) 3/4" Ø A.B. PROVIDE 6000psi. 1-1/2" GROUT PAD AND LEVELING NUTS
4. REMOVE (E) SLAB AND REPLACE, PER ARCH.
5. SIMPSON CCQ COL. CAP
6. CANOPY BEAM, SEE PLAN
7. CANOPY JOIST, SEE PLAN
8. (4) #4 VERTICAL BARS EXTEND TO BOTTOM STEEL IN FOOTING
9. #3 TIES @ 3" O.C. TOP 9 " AND 6" O.C. ELSEWHERE

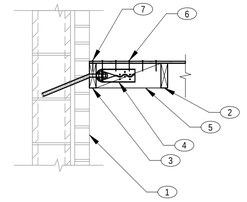
2 S3.2 DETAIL
NO SCALE



KEYNOTES:

1. (E) CMU WALL
2. 2x CANOPY JOIST, SEE PLAN
3. CANOPY SHEATHING, SEE 1/S3.2
4. BOUNDARY NAILING, SEE 1/S3.2
5. 2x6 LEDGER WITH 3/4" Ø EPOXY ANCHOR BOLT @ 32"O.C. SEE DETAIL 5/S3.2 FOR EPOXY ANCHOR BOLT INSTALLATION
6. SIMPSON LU26 FACE MOUNT HANGER OR EQUAL

3 S3.2 DETAIL
NO SCALE



KEYNOTES:

1. (E) CMU WALL
2. 2x CANOPY JOIST, SEE PLAN
3. 2x6 LEDGER WITH 3/4"Ø EPOXY ANCHOR BOLT @ 32"O.C.
4. SIMPSON HDU-2 HOLD DOWN @ 32"O.C.
5. 2x FULL HEIGHT BLOCK
6. (6) 10d NAILS EACH BLOCK
7. BOUNDARY NAILING

4 S3.2 DETAIL
NO SCALE

OPTION #1

OPTION #2

KEYNOTES:

1. CORE DRILL HOLE TYP. 1"Ø x 8" DEEP WITH CARBIDE TIPPED DRILL BIT WITH DRILL SET ON ROTATION MODE ONLY. OPTION 1 OR 13" DEEP OPTION 2
2. PLACE SCREEN TUBE WITH ADHESIVE TYP. 15/16"Ø x 8" DEEP WITH PLUG AT END
3. INSERT STEEL SLEEVE. TYP. 13/16" OUTSIDE DIAMETER
4. AFTER CURING, DRILL HOLE THRU PLUG AND REMAINING MASONRY
5. PLACE THREADED ROD AND ANCHOR PLATE. TYP. 5/8"Ø AND STEEL PLATE
6. BLOCKING OR LEDGER, SEE SPECIFIC DETAILS
7. WASHERS
8. HOLE IN BLOCK CAN BE OVERSIZED TO PLACE SCREEN TUBE. FILL ANNULUS IN WOOD WITH ADHESIVE
9. PRE-BENT THREADED ROD TYP. 3/4"Ø
10. SCREEN TUBE TYP. 15/16"Ø

NOTES:

SEE GSN FOR ALLOWABLE EPOXY TYPES

5 S3.2 TYP. SHEAR OR TENSION BOLTING
NO SCALE

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REVISIONS

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SHEET TITLE

STRUCTURAL DETAILS

S3.2