

## GENERAL PROJECT NOTES

- All work performed shall comply with these general notes unless otherwise noted on the drawings and specifications. The general contractor shall coordinate the general notes with the work of all trades, including but not limited to the mechanical and electrical trades.
- The contractor shall visit the site and be knowledgeable of conditions thereof. The contractor shall investigate verify and be responsible for all conditions of the project and shall notify the owner/architect of conditions requiring modification before proceeding with the work.
- Where discrepancies exist between drawings by various disciplines the contractor shall consult the architect before proceeding with the work.
- Conditions which are not detailed shall be assumed to be similar in character to those which are. Where specific dimensions, details or design cannot be determined the contractor shall notify the architect prior to proceeding with the work.
- Construction of work indicated on drawings as NIC is not in contract. The contractor shall coordinate all trades of his work, whether directly or indirectly involved, with NIC work.
- All work shall conform to the requirements of all applicable codes and governing authorities and shall be of best practice of each trade.
- Finished floor elevations are top of concrete unless noted otherwise.

## PROJECT DESCRIPTION

Project includes roof repair of entire building over Suites 113-117.

The building Owner is requesting exemption from full compliance with the 2015 WSEC as allowed by Par. C503.3.1: The existing building has no insulation above the roof deck. The project will improve the energy efficiency of the building as it incorporates the four inches of polyisocyanurate rigid insulation above the roof deck.

The project incorporates skylights with a total area equal to 96sf, below 3% as identified in C402.4.1 (3360x3% = 100.8sf)

## PROJECT INFORMATION

Project Address: 113-117 Columbia St. NW  
Olympia, WA 98501  
78507300300  
Parcel No.: Section 14 Township 18 Range 2W Quarter NW  
Legal Description: SW Plat SYLVESTER TOWN OF OLYMPIA BLK  
73 LT 3 E 1/2 Document 001/014  
Acres: .08  
Zoning: UWH - Urban Waterfront Housing  
Codes: 2015 IEBC  
Occupancy: Existing M-Merchandise  
Construction type: Type V-B  
Stories: 1 (existing)  
Building Area: 3360 sf Existing

## PROJECT TEAM

### OWNER

609 Partners, LLC  
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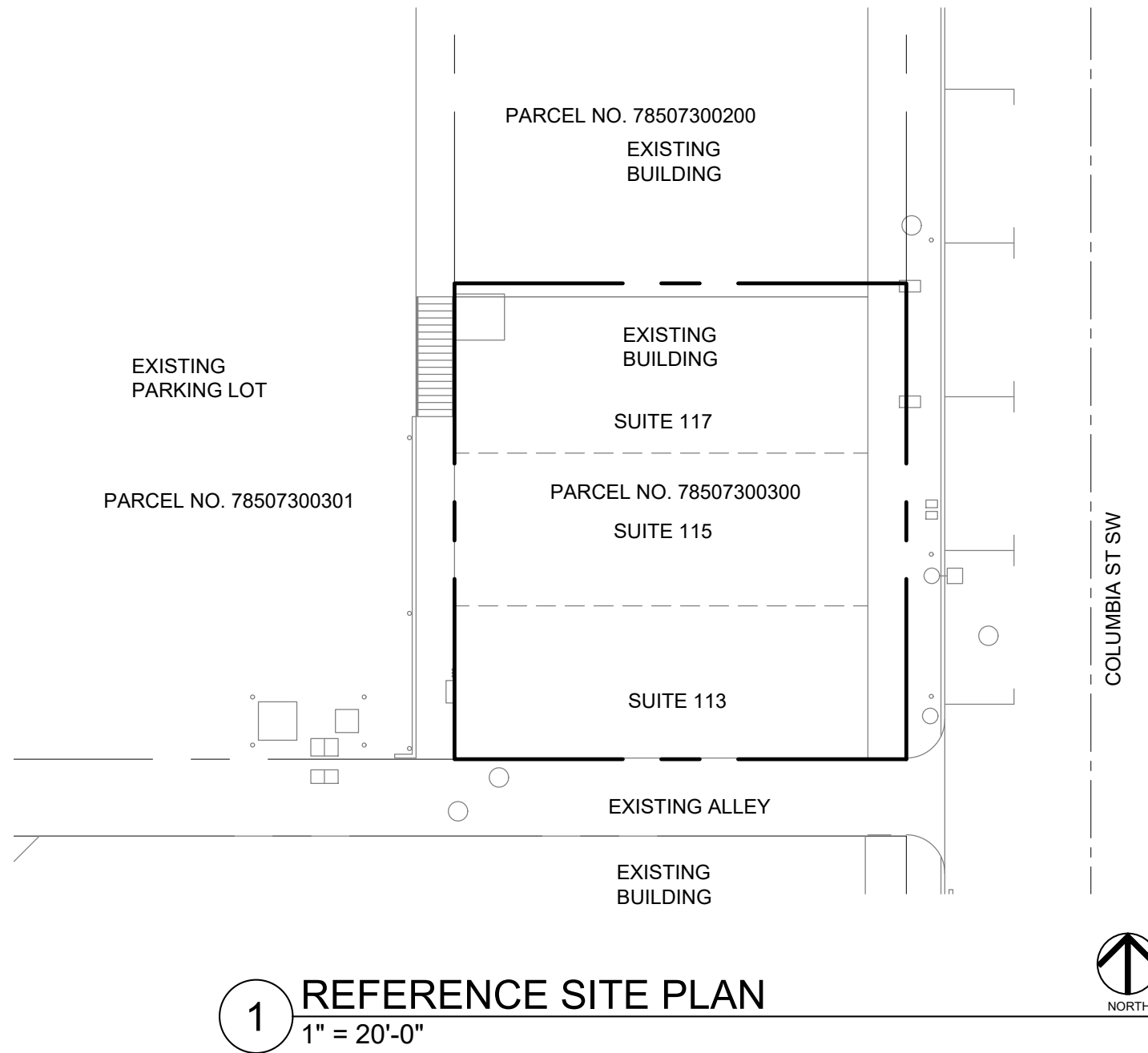
### STRUCTURAL ENGINEER

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## DRAWING INDEX

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A190 ROOF PLAN AND DETAILS

STRUCTURAL  
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S101 ROOF FRAMING PLAN



### HAZARDOUS MATERIALS

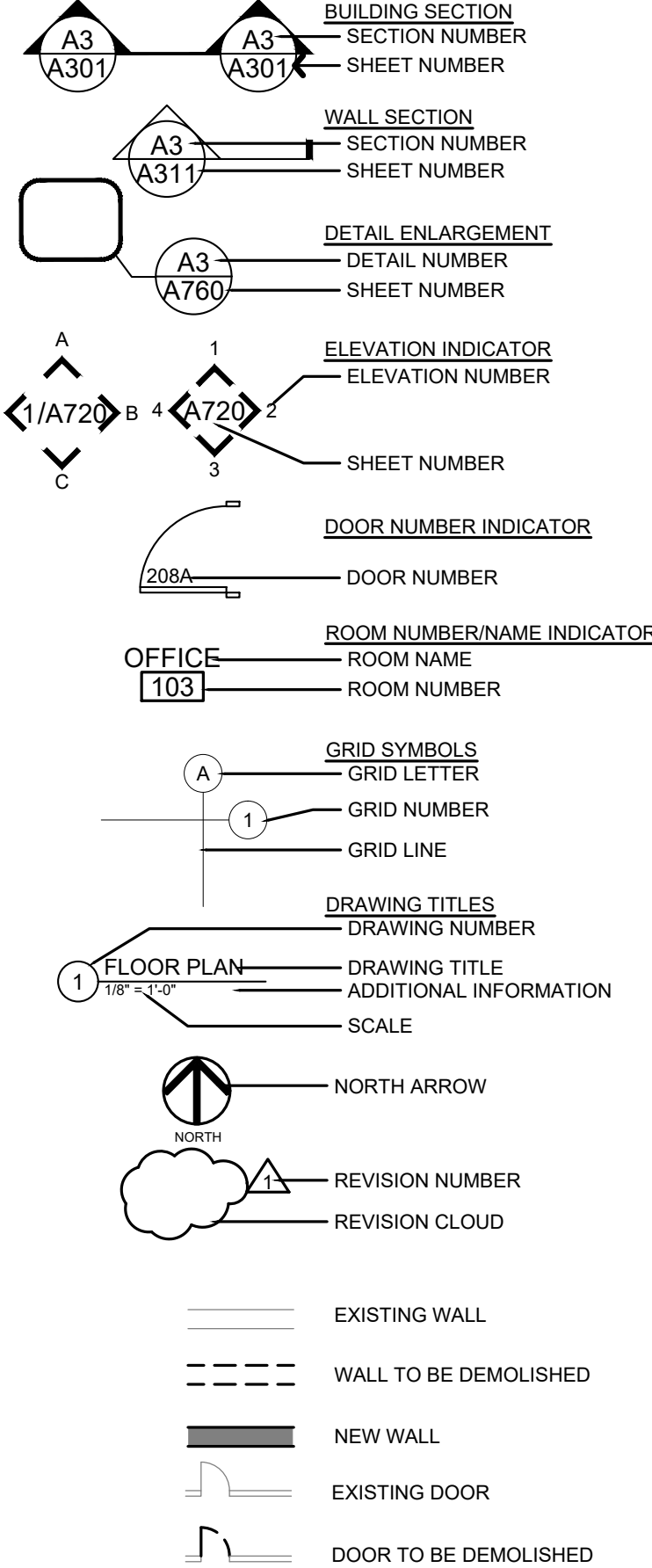
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## ABBREVIATIONS

AB	Anchor Bolt	ELEC	Electrical	INT	Interior
AC	Asphaltic Concrete	ELEV	Elevation or Elevator	INV	Invert
A/C	Air Conditioner	ENAM	Enamel	JAN	Janitor
ACP	Acoustical Ceiling Panel	EP	Epoxy	JNT	Joint
ADJ	Adjustable	EQ	Equal	JST	Joist
AFF	Above Finish Floor	EQUIP	Equipment	K	Kips or 1000 Pounds
AGG	Aggregate	ES	Exposed Structure	KD	Knock Down or Kiln Dried
ALT	Alternate	EW	Each Way	KIT	Kitchen
ALUM	Aluminum	EXH	Exhaust	KO	Knock Out
ANOD	Anodized	EXIST	Existing	KP	Kick plate or King Post
APPROX	Approximate	(E)	Exposed	KSI	Kips per Sq. Inch
ARCH	Architect(ural)	EXT	Exterior	L	Length of Span or Structural Angle
BD	Board	FB	Flat Bar	LAV	Lavatory
BLDG	Building	FD	Floor Drain	LB	Pound or LAG Bolt
BLKG	Blocking	FE	Fire Extinguisher	LBS	Pounds
BM	Beam	FEC	Fire Extinguisher Bracket	LF	Linear Foot
BO	Bottom Of or By Owner	FG	Fiberglass	LH	Left Hand
BTM	Bottom	FH	Fire Hydrant	LKR	Locker
BRG	Bearing	FJ	Furnished & Installed by Owner	LL	Live Load
BTWN	Between	FLR	Floor Joist	LOC	Location
BU	Built-Up	FF	Factory Finish or Finish Floor	LP	Light Pole
CAB	Cabinet	FG	Fiberglass	LS	Liquid Soap Dispenser
CB	Catch Basin	FH	Fire Hydrant	LP	Light Pole
C/C	Center to Center	FJ	Furnished & Installed by Owner	LS	Liquid Soap Dispenser
CG	Corner Guard	FTD	Feminine Napkin Disposal	MBR	Member
CHAMF	Chamfer	FR	Framing	MB	Marker Board
CJ	Ceiling Joist or Control Joint	FND	Foundation	MBM	Metal Building Manufacturer
CLG	Ceiling	FOC	Face of Column	MDO	Medium Density Overlay
CLR	Clear	FOIC	Furnished By Owner	ME/P	Mechanical/Electrical/Plumbing
CMU	Concrete Masonry Unit	FOS	Face of Stud	MED	Medium
CO	Clean out	FW	Face of Wall	MEG	Manufacturing
COL	Column	FR	Frame	MF	Manufacturer
CONC	Concrete	FRG	Framing	MH	Manhole
CONF	Conference	FRP	Fiber Reinforced Panels	MIN	Minimum
CONST	Construction	FR	Fire Retardant Treated	MIR	Mirror
CONT	Continuous	FT	Feet or Foot	MISC	Miscellaneous
CP	Contractor	FTG	Footing	MOD	Modular
CPT	Carpet	FUR	Furred or Furring	MTG	Mounting or Meeting
CPT-T	Carpet Tile	FA	Field Verify	MTL	Metal
CRS	Cold Rolled Steel	GV	Gauge	MULL	Mullion
CT	Ceramic Tile or Porcelain Tile	GALV	Galvanized	N	North
CTC	Ceramic Tile Covered	GB	Grab Bar	NIC	Not in Contract
CTR	Center	GC	General Contractor	NO	Number
CS	Cultured Stone	GEN	General	NOM	Nominal
CVG	Clear Vertical Grain	GL	Glass or Glazed	NTS	Not to Scale
CWT	Ceramic Wall Tile	GR	Grading	O/	Over
DBL	Depth	GWB	Gypsum Wallboard	OC	On Center
DEM	Demolition	GYP	Gypsum	OD	Outside Diameter
DET	Detail	H	Height	OFF	Off
DF	Douglas Fir or Drinking Fountain	Hb	Hose Bibb	OFC	Office
DIAG	Diagonal	HBD	Hardboard	OFI	Owner Furnish Owner Install
DIA	Diameter	HCB	Hollow Core	OH	Overhead
DIM	Dimension	HCC	Handicap(ped)	OPNG	Opening
DISP	Dispenser	HDR	Header	OPH	Opposite Hand
DL	Dead Load	HDW	Hardware	OPP	Opposite
DN	Down	HDWR	Hardware	P	Polished
DR	Door	HDR	Header	PAV	Paving
DS	Downspout	HORZ	Horizontal	PAR	Parallel
DW	Dish Washer	HT	Height	PART	Partition or Partial
DWG	Drawing	HVAC	Heating/Ventilation/Air Conditioning	PBD	Particle Board
E	East	HW	Hot Water	PERT	Perforate(d)
EA	Each	ID	Inside Diameter	PERIM	Perimeter
EB	Expansion Bolt	INSUL	Insulation or Insulated	PJ	Panel Joint
EIFS	Exterior Insulation and Expansion Joint			PL	Property Line or Plate
EJ	Finish System			PLAM	Plastic Laminate
EL	Expansion Joint				
EL	Elevation				

PLAS	Plastic	TOP	Top of Curb	UNO	Unless Noted Otherwise
PW	Plywood	TOPL	Top of Parapet or Top of Pavement	VB	Vapor Barrier
PR	Pair	TOS	Top of Slab	VCT	Vinyl Composition Tile
PSF	Pounds Per Square Foot	TPD	Toilet Paper Dispenser	VERT	Vertical
PT	Pressure Treated	TS	Tube Steel	VG	Vertical Grain
PTD	Paper Towel Dispenser	TSD	Toilet Seat Dispenser	VIN	Vinyl
PTD/R	Paper Towel Dispenser	TV	Television	VP	Veneer Plaster
PTR	Paper Towel Receptacle	TOW	Top of Wall	W	West, Wide or Width
PVC	Polyvinyl Chloride	TYP	Typical	W/	With
QT	Quarry Tile	UNO	Unless Noted Otherwise	WC	Water Closet
QTY	Quantity			WD	Wood
R	Radius or Riser			WF	Wide Flange
RB	Rubber Base			W/O	Without
RCP	Reflected Ceiling Plan			WOM	Walk-off Mat
REF	Reference or Reception			WP	Waterproof
REF	Reference or Refrigerator			WRB	Weather Resistant Barrier
RFG	Refrigerator			WT	Weight
REIN	Reinforcing			WWW	Welded Wire Mesh
RESIL	Resilient				
RFG	Refrigerator				
RH	Right Hand				
RL	Rain Leader				
RM	Room				
RO	Rough Opening				
ROW	Right of Way				
RUBB	Rubber				
S	South or Structural				
SAF	Self Adhered Flashing				
SC	Manufacturer				
SCB	Self-Covered Base				
SCHED	Schedule				
SG	Stainless Steel				
SSD	See Structural Drawings				
ST	Stain				
STD	Standard				
STOR	Storage				
STR	Steel				
STUCT	Structural				
SUS	Suspended				
SV	Sheet Vinyl				
SYS	System				
T	Tread or Top or Trimmer or				
TB	Tempered				
TEL	Telephone				
TEMP	Temporary or Tempered				
T&G	Tongue & Groove				
TH	Thickness				
TK	Tight Knot				
TO	Top Of				
TOB	Top of Beam				
TOC	Top of Concrete or Top of Column or				

## SYMBOLS

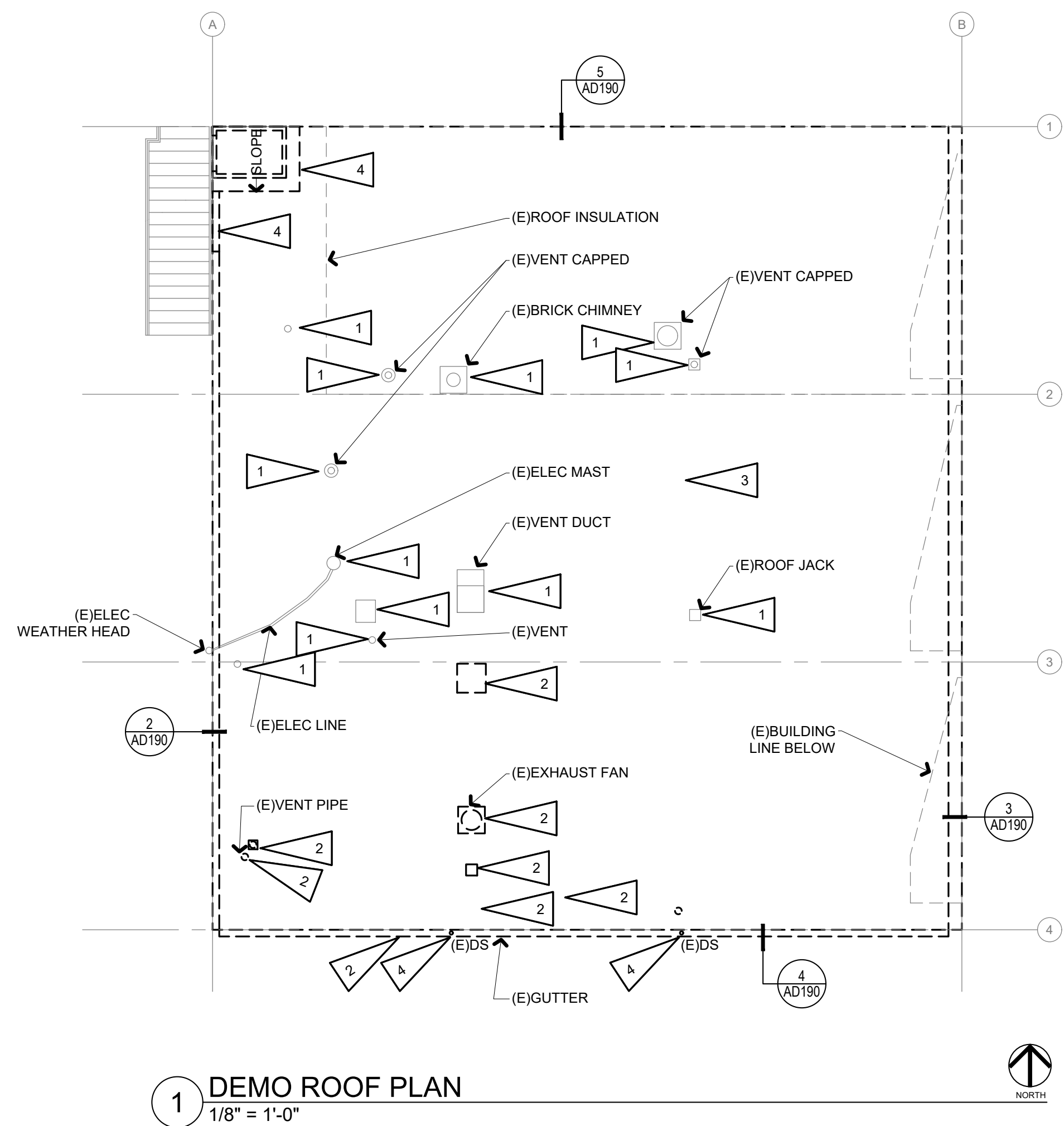
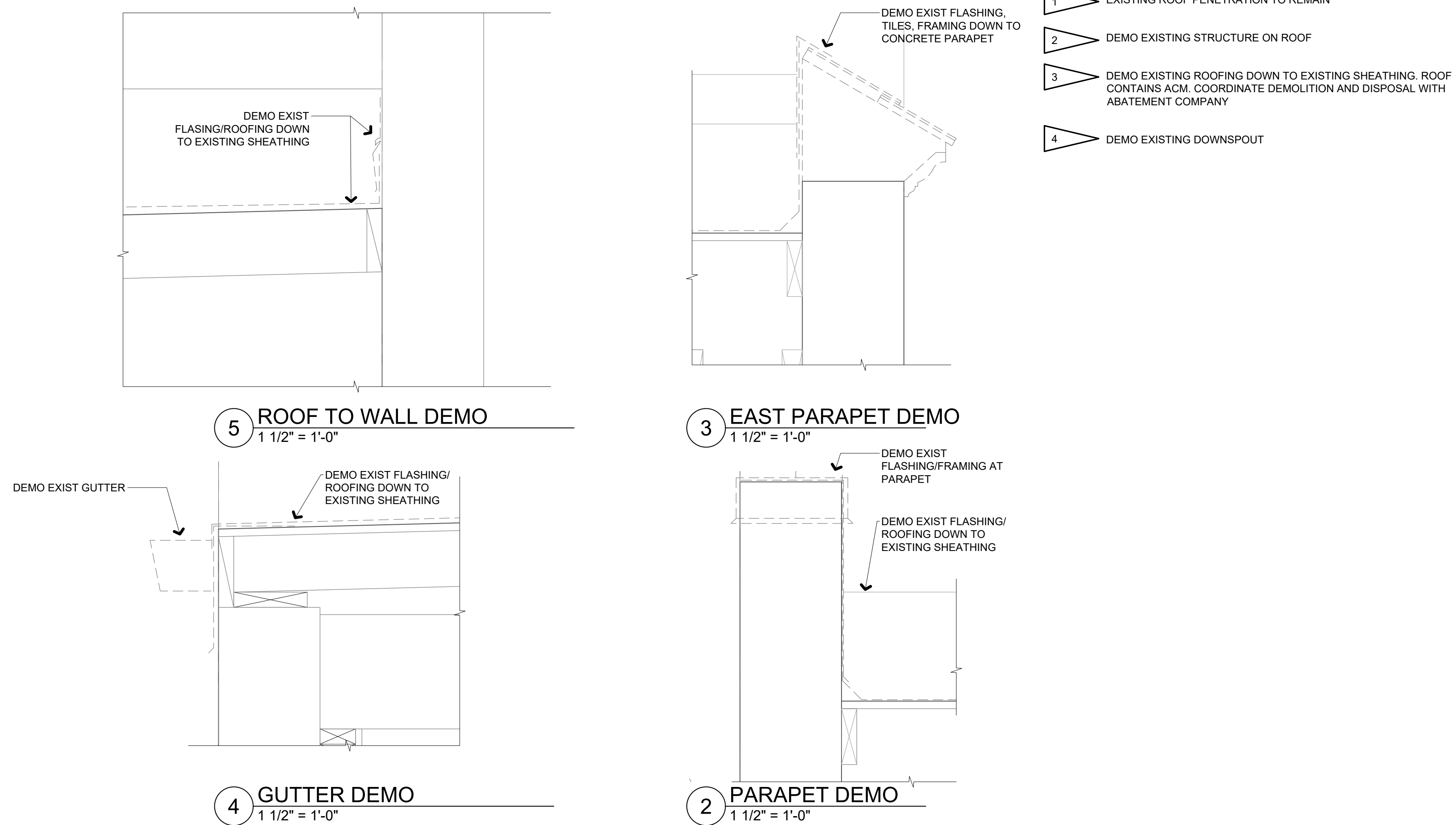






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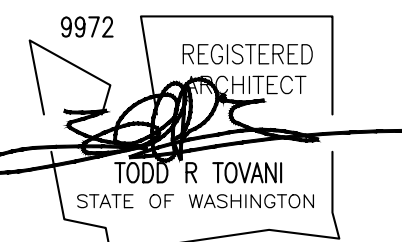


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Reviewed for Code Compliance  
Construction Permitting Only

Rich Baldert

**609 PARINERS**  
**113-117 CO**  
**ROOF REPAIR**  
113-117 Columbia St NW  
Olympia, WA 98501



JOB NO.  
018-018  
DRAWN BY  
JML  
DATE  
6-12-19  
REVISIONS

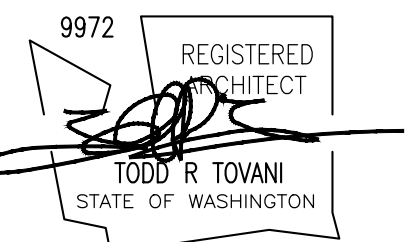
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SET

## DEMOLITION ROOF PLAN AND DETAILS

AD190

9 A COLUMBIA ST. SW.  
LYMPIA, WA 98501  
360.339.8274 • F 360.350.5614

005 FAYTINERS  
113-117 COLUMBIA ST NW  
ROOF REPAIR  
113-117 Columbia St NW  
Olympia, WA 98501

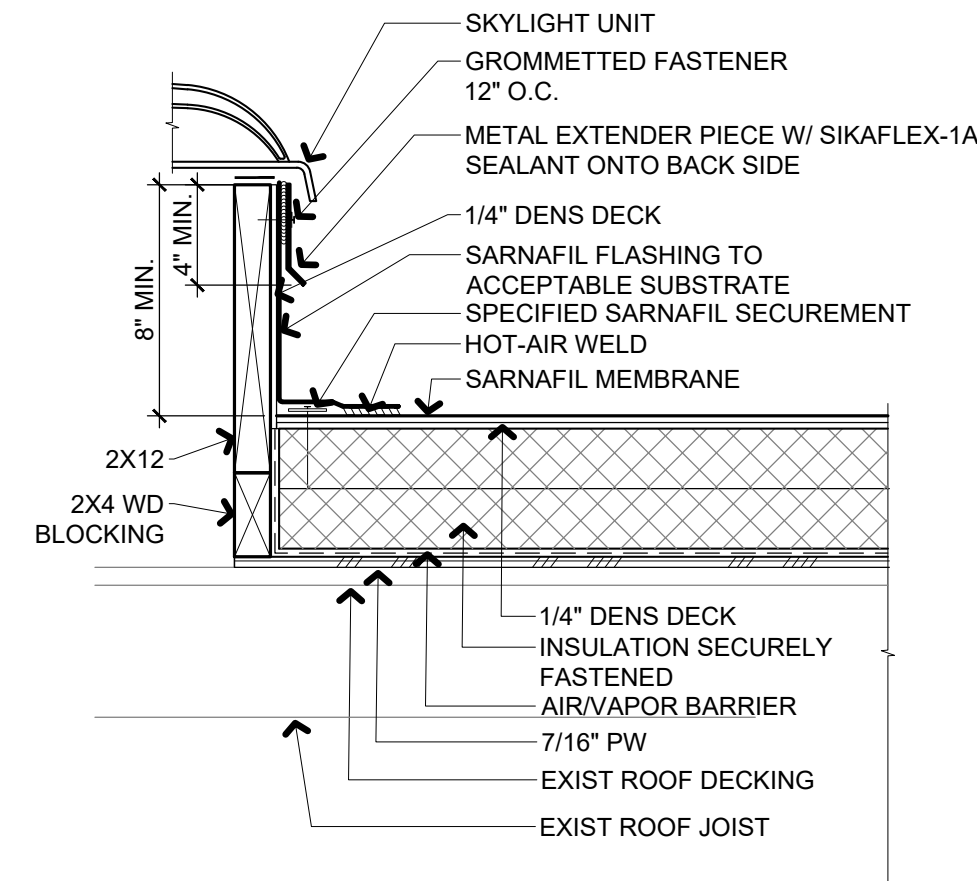


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 JML  
 DATE  
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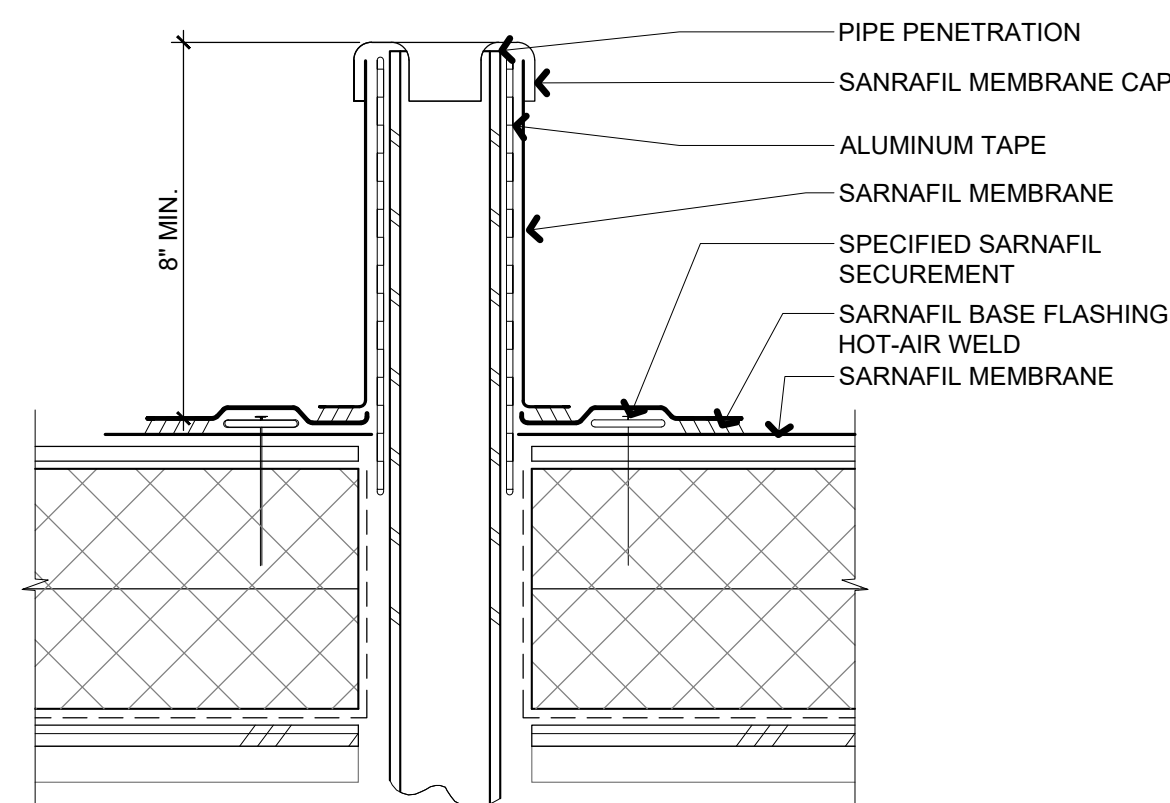
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## ROOF PLAN AND DETAILS

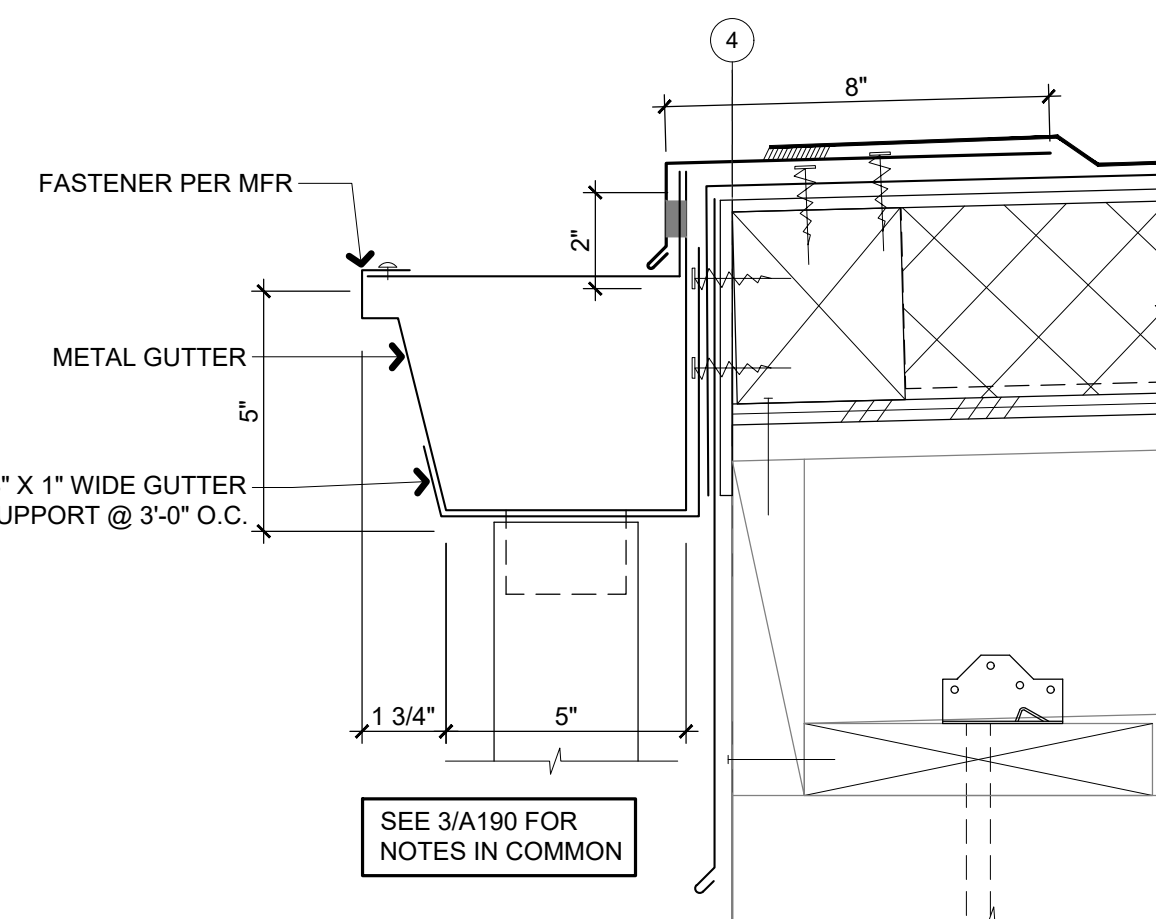
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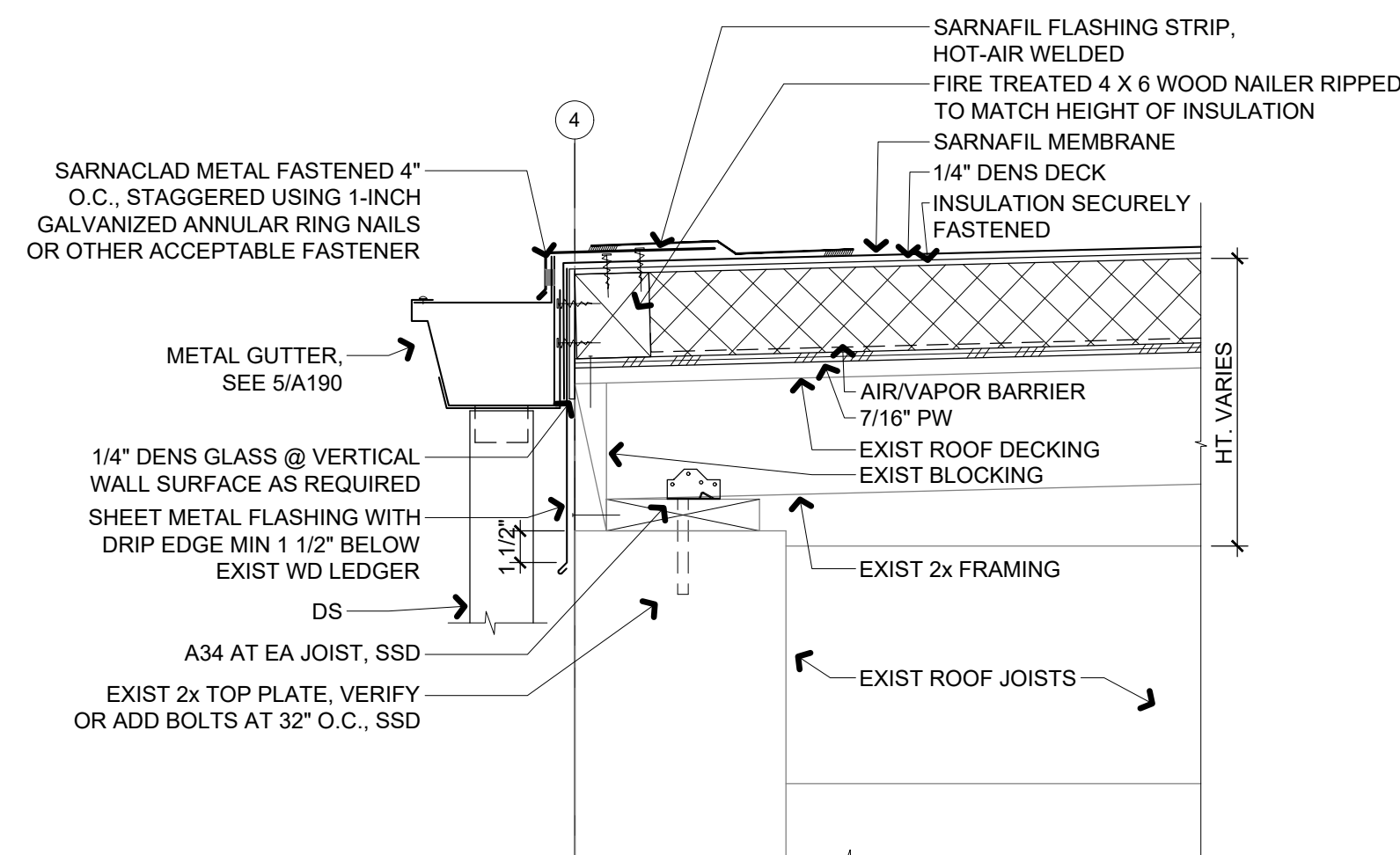
7 SKYLIGHT CURB DETAIL  
1 1/2" = 1'-0"



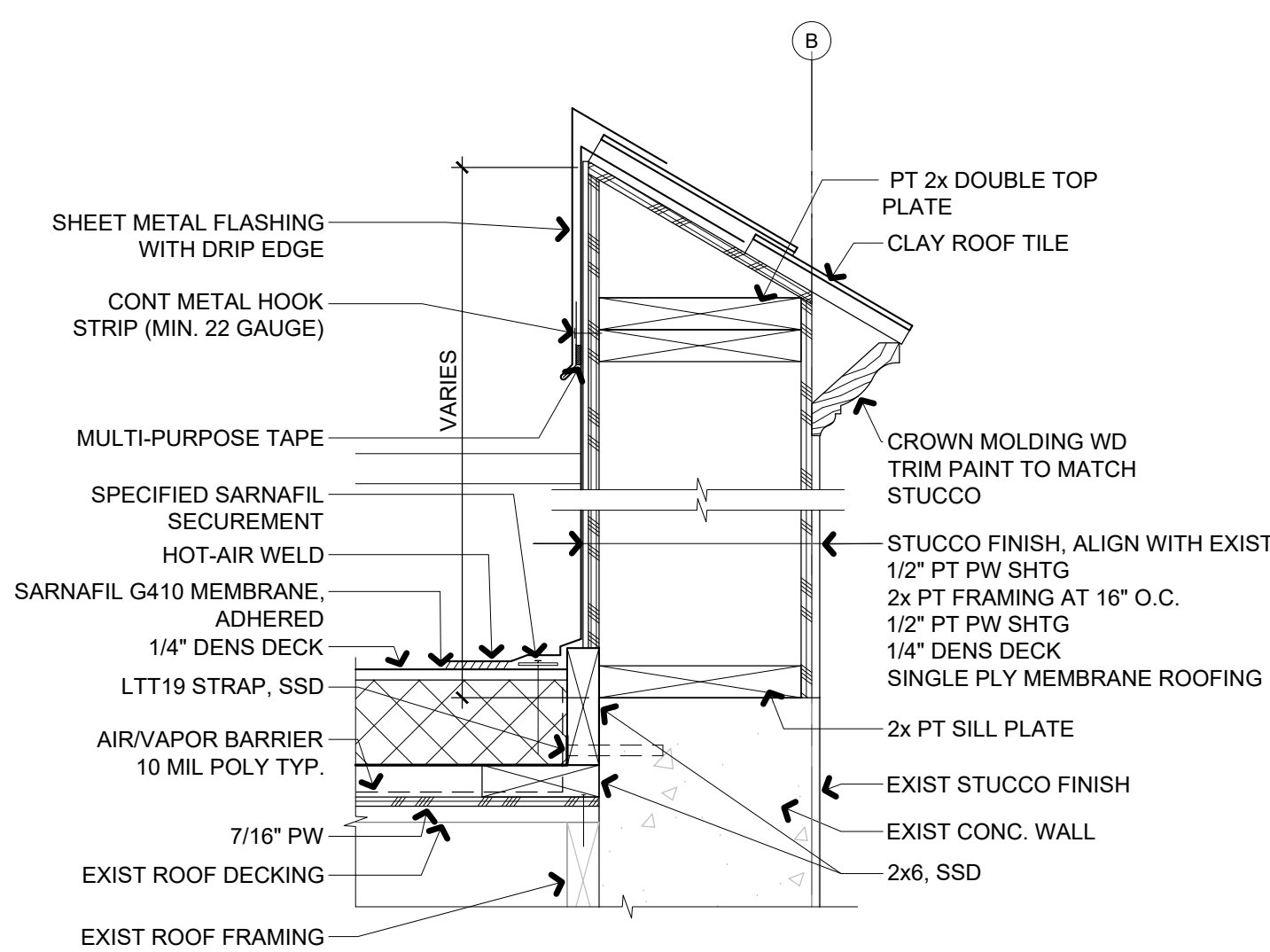
6 VENT STACK FLASHING  
3" = 1'-0"



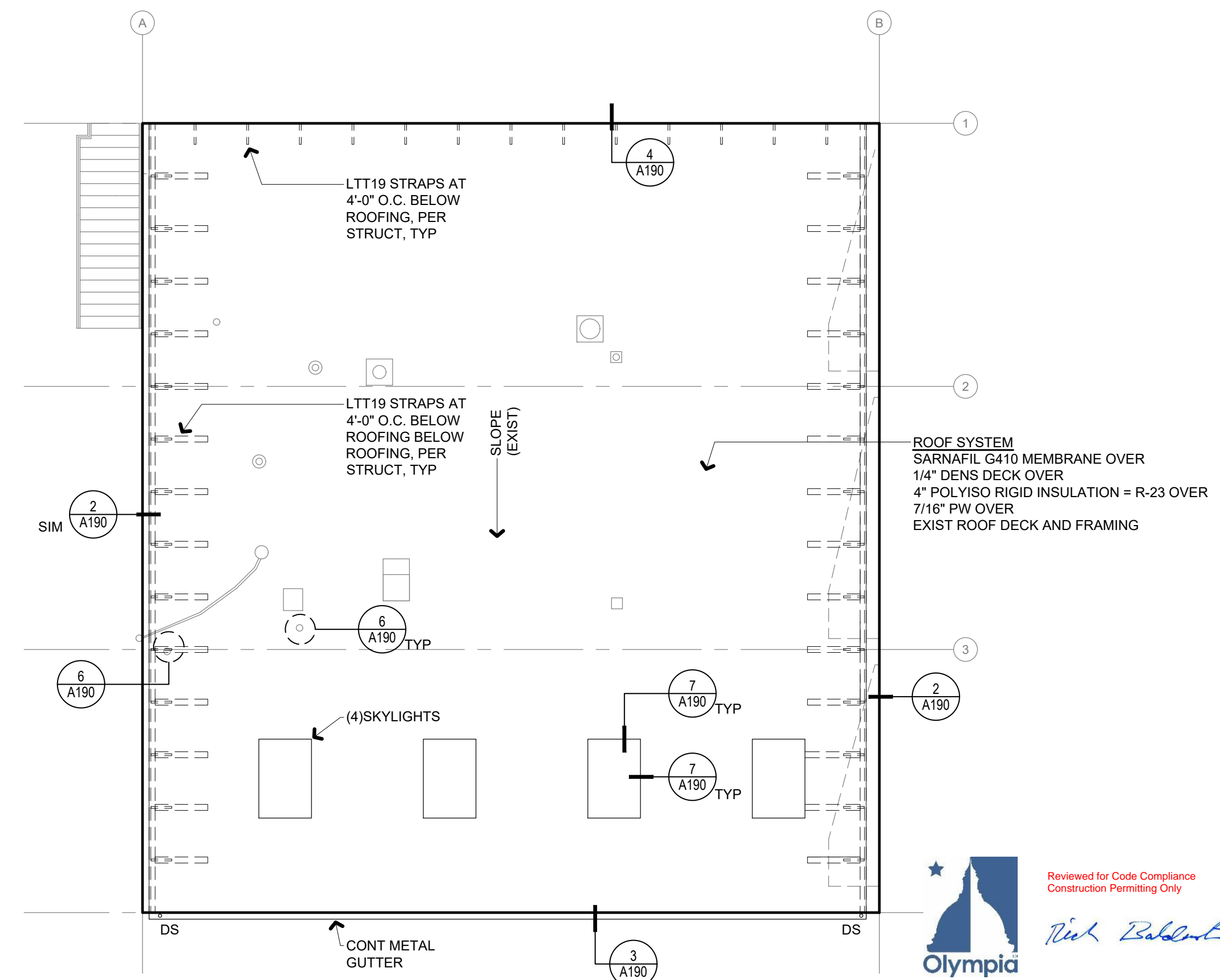
5 GUTTER DETAIL  
3" = 1'-0"



3 SOUTH WALL ROOF DETAIL  
1 1/2" = 1'-0"



2 EAST PARAPET DETAIL  
1 1/2" = 1'-0"



1 ROOF PLAN  
1/8" = 1'-0"



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GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS  
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD
ROOF	15 PSF	30 PSF
RETAIL (1ST FLOOR)	—	100 PSF

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

EXISTING BUILDING SEISMIC UPGRADES

LATERAL FORCES

THE STRUCTURAL SCOPE OF WORK IS TO IMPROVE LIFE/SAFETY PERFORMANCE OF THE EXISTING STRUCTURE. THE FOCUS OF THE WORK IS AS FOLLOWS:

- ADD PLYWOOD DIAPHRAGMS TO ROOF STRUCTURE
- ANCHOR EXTERIOR CONCRETE WALLS TO ROOF

SEISMIC: (ASCE 7-10) V = CsW

WHERE  $C_s = \frac{S_{ps}}{(\frac{R}{I_e})}$ ; WITH

$C_s$  MINIMUM = 0.044  $S_{ps}I_e \geq 0.01$   
OR  
 $C_s$  MINIMUM =  $\frac{0.5S_1}{R I_e}$  FOR  $S_1 > 0.6g$

$C_s$  MAXIMUM =  $T(\frac{R}{I_e})$  FOR  $T \leq T_L$   
OR  
 $C_s$  MAXIMUM =  $\frac{S_{p1}T_L}{T^2(\frac{R}{I_e})}$  FOR  $T > T_L$

SEISMIC IMPORTANCE FACTOR,  $I_e = 1.0$   
RISK CATEGORY OF BUILDING PER TABLE 1.5-1 = II  
SPECTRAL RESPONSE ACCELERATIONS  $S_s = 1.330$   $S_1 = .546$   
SITE CLASS PER TABLE 20.3-1 = D  
DESIGN SPECTRAL RESPONSE ACCELERATIONS  $S_{ps} = .887$  &  $S_{p1} = .546$   
SEISMIC DESIGN CATEGORY = D  
W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 112K  
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE  
RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 5.0  
 $C_s = .177$   
DESIGN BASE SHEAR V = 19.8K

CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" NAILS WITH THE FOLLOWING PROPERTIES:

PENNYWEIGHT	DIAMETER (INCHES)	LENGTH (INCHES)	TRACKER** EMBOSSED HEAD / COLOR
8d	0.131	2-1/2	3 / BLUE
10d	0.148	3	4 / WHITE
16d	0.162	3-1/2	6 / ORANGE
20d	0.192	4	—

FOR DIAPHRAGM OR SHEAR WALL NAILING THE FOLLOWING FASTENER TYPES MAY BE USED AT EQUIVALENT SPACING TO THAT SPECIFIED ON PLANS

FASTENER TYPE	DIAMETER (INCHES)	LENGTH (INCHES)	EQUIVALENT SPACING (INCHES)			TRACKER** EMBOSSED HEAD / COLOR
8d COMMON WIRE	0.131	2-1/2	6	4	3	3 / BLUE
8d "DIPPED GALV. BOX"	0.131	2-1/2	6	4	3	E3 / NONE
8d "SHINY BOX"	0.113	2-1/2	4-1/2	3	2-1/2	1 / BLUE
12 GA. STAPLES	0.1055	1-7/8*	6	5-1/2	4	—
14 GA. STAPLES	0.080	1-1/2*	6	4	3	—
15 GA STAPLES	0.072	1-1/2*	5	3	2-1/2	—
10d COMMON WIRE	0.148	3	6	4	3	4 / WHITE
10d "HOT DIPPED GALV. BOX"	0.148	3	6	4	3	F4 / NONE
10d "SHINY BOX"	0.128	3	4-1/2	3	2-1/4	3 / WHITE

\*BASED ON 15/32" PLYWOOD OR OSB.  
\*\*REFERENCE TO EMBOSSED HEAD/COLOR CODED NAILS PER TRACKERS SYSTEM.

WOOD SHEATHING (STRUCTURAL): SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY. PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS PERFORMANCE CATEGORY 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-09 AND/OR PS2-10. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 32"O.C. (48/24); ROOF FRAMING AT 24"O.C. (32/16).

FRAMING LUMBER:

STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSCE CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)

1. 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
2. INTERIOR NON-BEARING STUD WALLS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
3. THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
4. UTILITY & STANDARD GRADES NOT PERMITTED.

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
CONCRETE	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X		ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
WOOD FRAMING	DIAPHRAGM NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5

PRESERVATIVE TREATED WOOD REQUIREMENTS:

TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED.

EXPOSURE	DRY	APPLICATION	SPECIFIED MATERIAL	PRESERVATIVE TREATMENT (1)	CONNECTORS & FASTENERS (2)(3)
		FOUNDATION SILL PLATES, TOP PLATES & LEDGERS ON CONCRETE OR MASONRY WALLS (4)	2x, 4x, 6x (FIR), OR GLULAM (SP)	SBX	GALV (G60)
				ACQ, CBA, CA	GALV (G185)
	WET	FRAMING, DECKING, POSTS & LEDGERS	2x, & 4x (FIR) 2x, & 4x (CEDAR)	ACQ, CBA, CA NONE	GALV (G185) GALV (G90)
		BEAMS & COLUMNS	6x (FIR), OR GLULAM (SP) 6x OR GLULAM (CEDAR)	ACQ, CBA, CA NONE	GALV (G185) GALV (G90)

1. CCA: CHROMATED COPPER ARSENATE NOT PERMITTED  
SBX: DOT SODIUM BORATE  
ACQ: ALKALINE COPPER QUAT  
CBA & CA: COPPER AZOLE  
FIR: DOUG-FIR OR HEM-FIR  
SP: SOUTHERN PINE
2. CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAPS AND BASES, ETC. FASTENERS: MACHINE BOLTS, ANCHOR BOLTS AND LAG SCREWS WITH ASSOCIATED PLATE WASHERS AND NUTS. NAILS, SPIKES, WOOD SCREWS, ETC.
3. G60, G90 & G185 PER ASTM A653 FOR COLD-FORMED STEEL CONNECTORS. BATCH/POST HOT-DIP GALVANIZED PER ASTM A123 FOR STRUCTURAL STEEL CONNECTORS. HOT-DIP GALVANIZED PER ASTM A153 FOR FASTENERS OR MECHANICALLY GALVANIZED FASTENERS PER ASTM B695, CLASS 55 OR GREATER.
4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE ON CONCRETE OR MASONRY WALLS MAY BE UN-TREATED IF COMPLETELY SEPARATED FROM THE WALL BY A SELF ADHERING ICE & WATER SHIELD BARRIER (40 MIL MINIMUM).

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

LAG SCREWS: SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. LAG SCREWS SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW. LAG SCREW SHALL NOT BE DRIVEN WITH A HAMMER. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.



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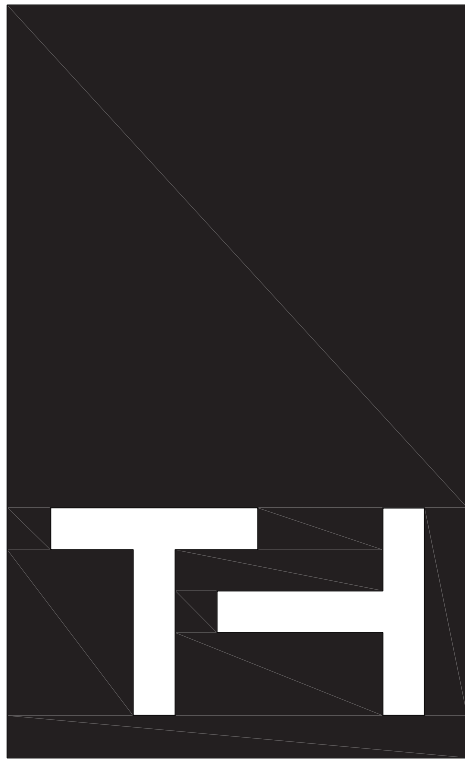


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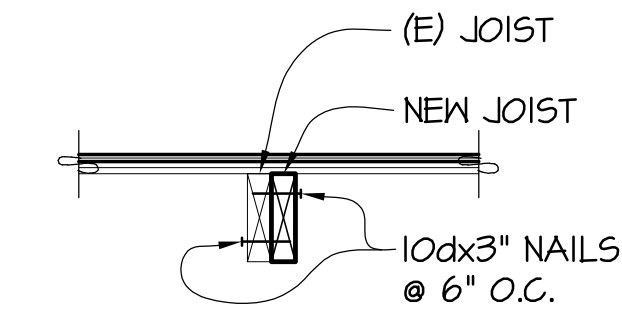
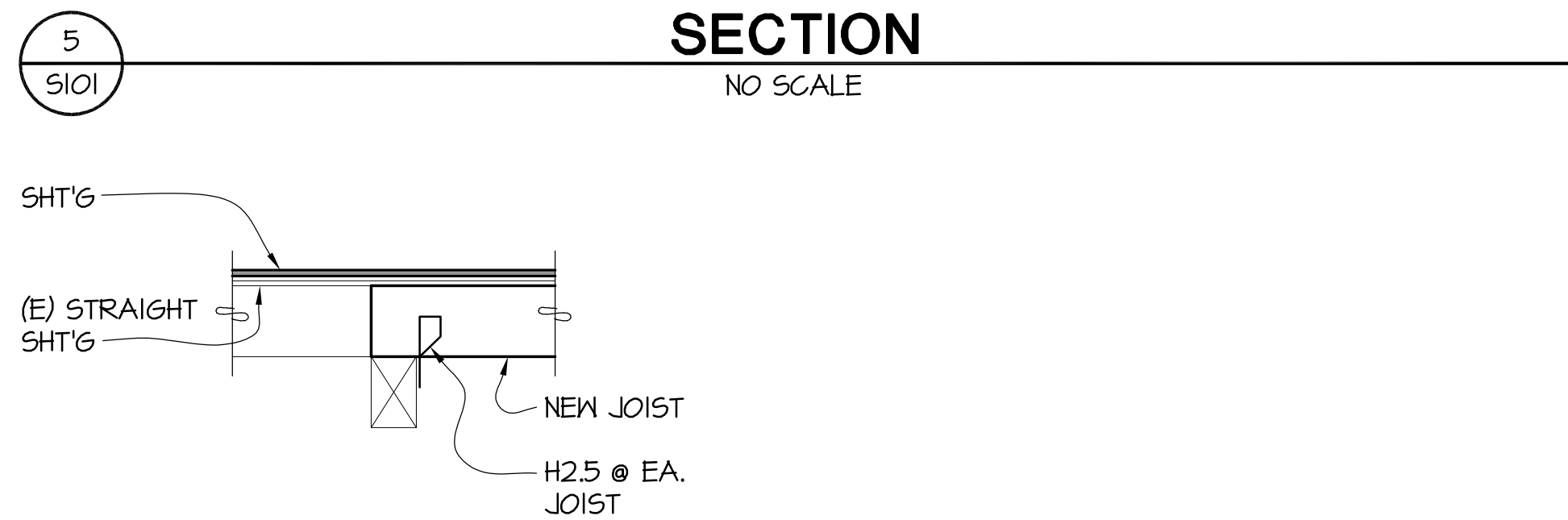
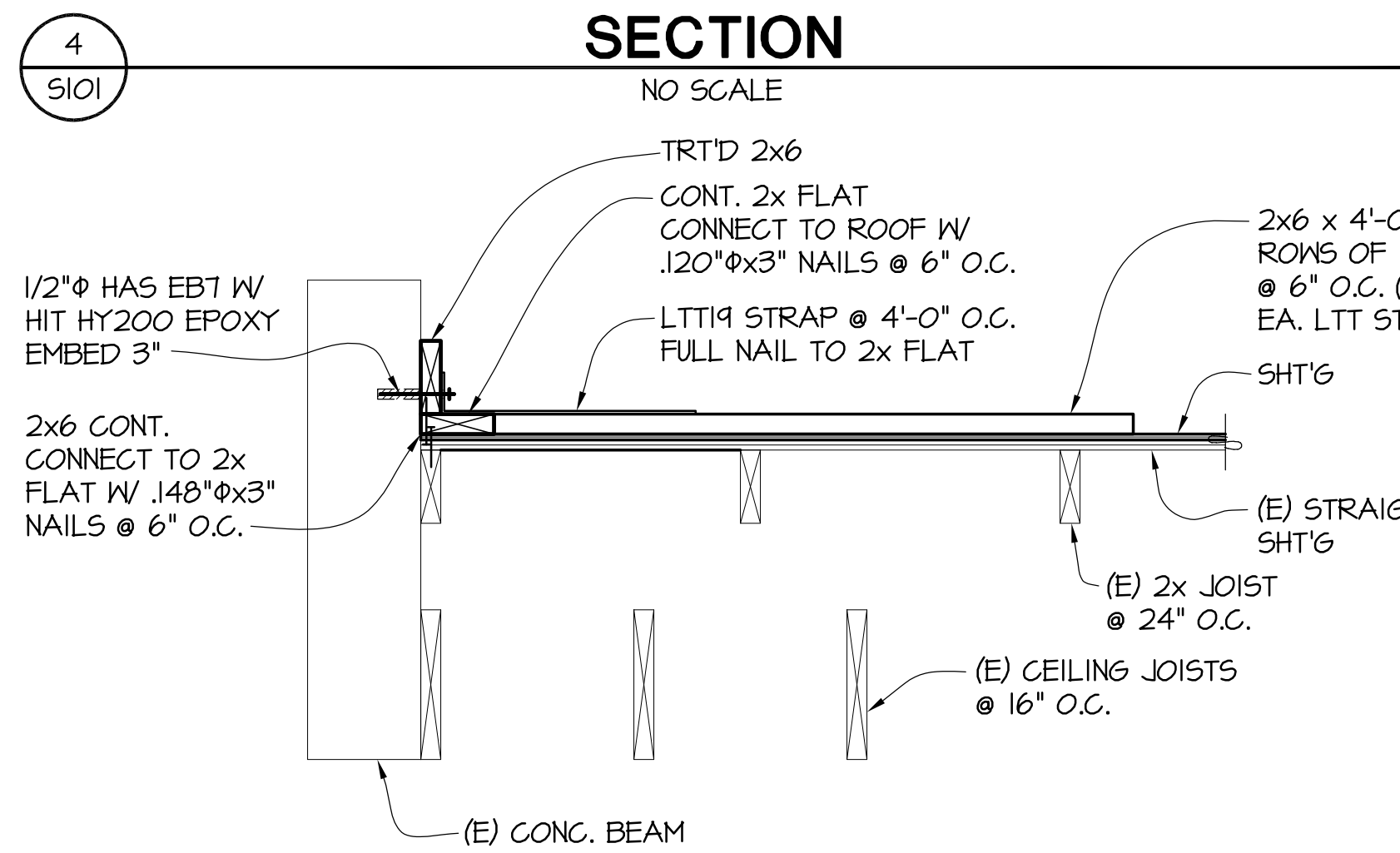
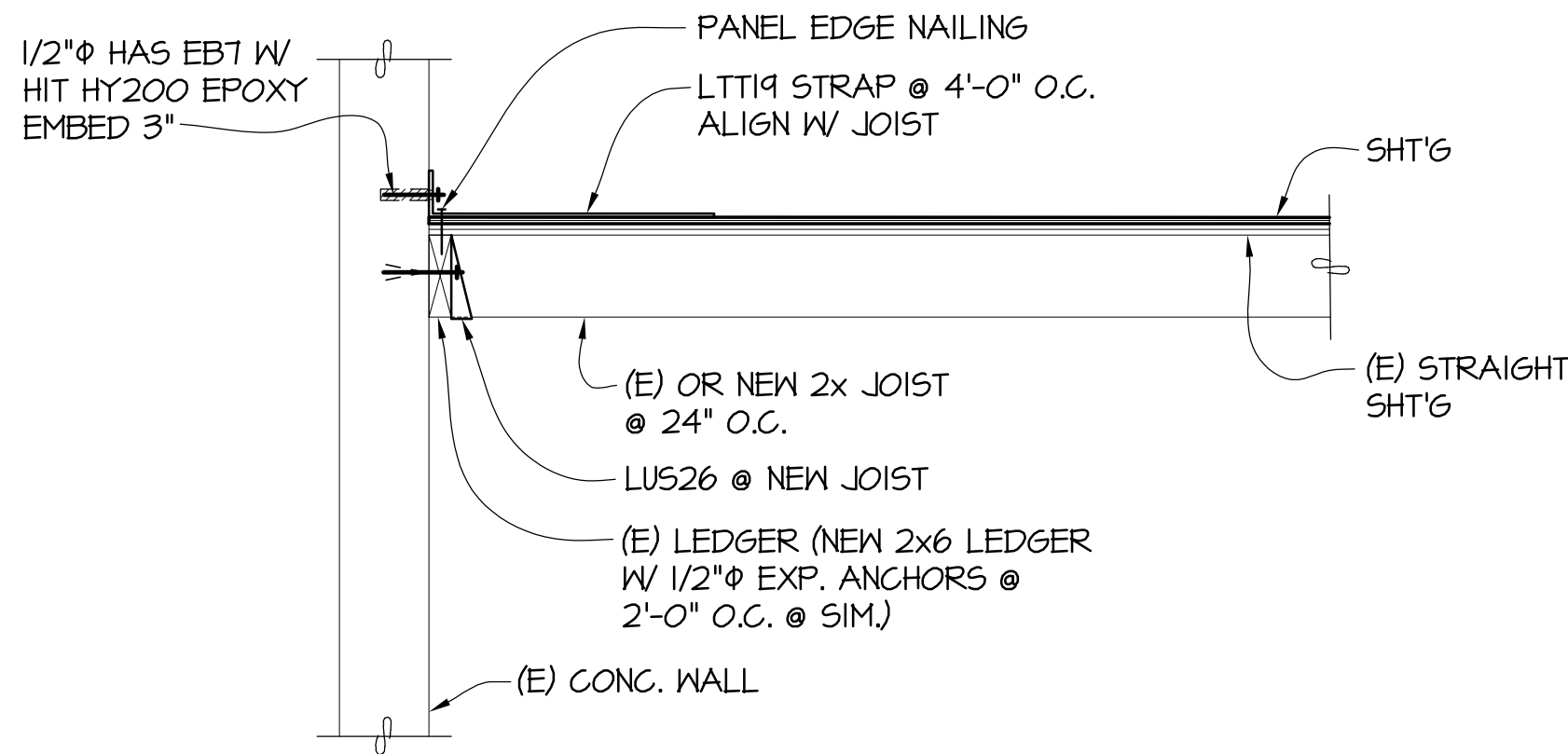
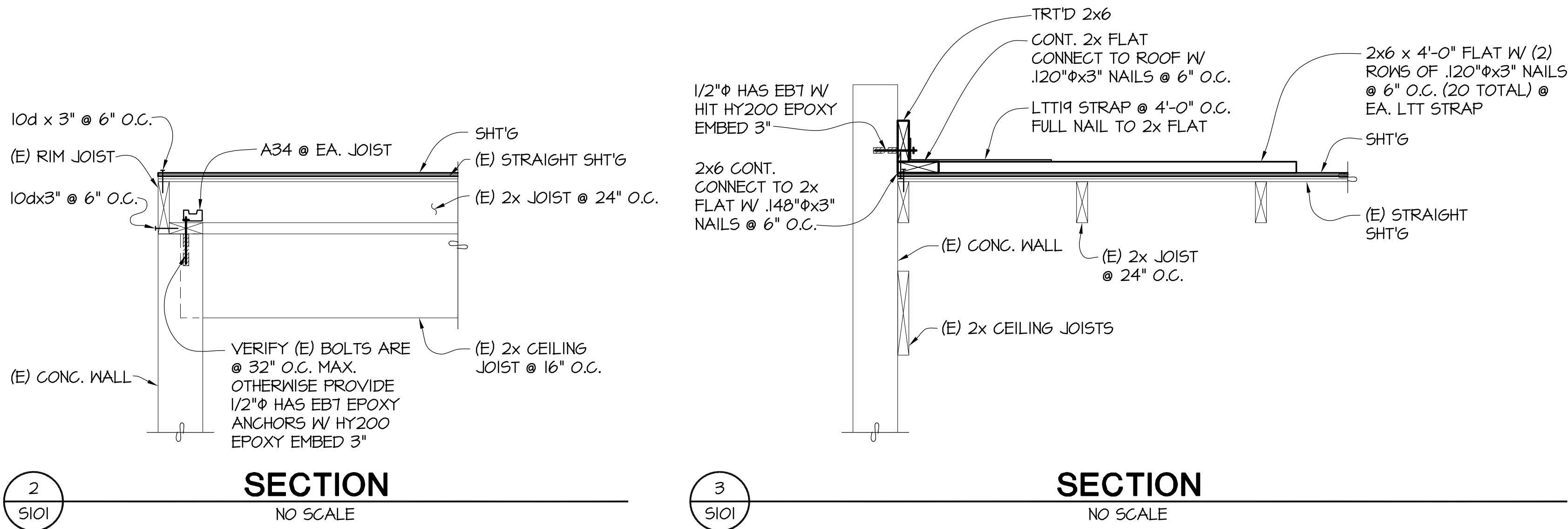
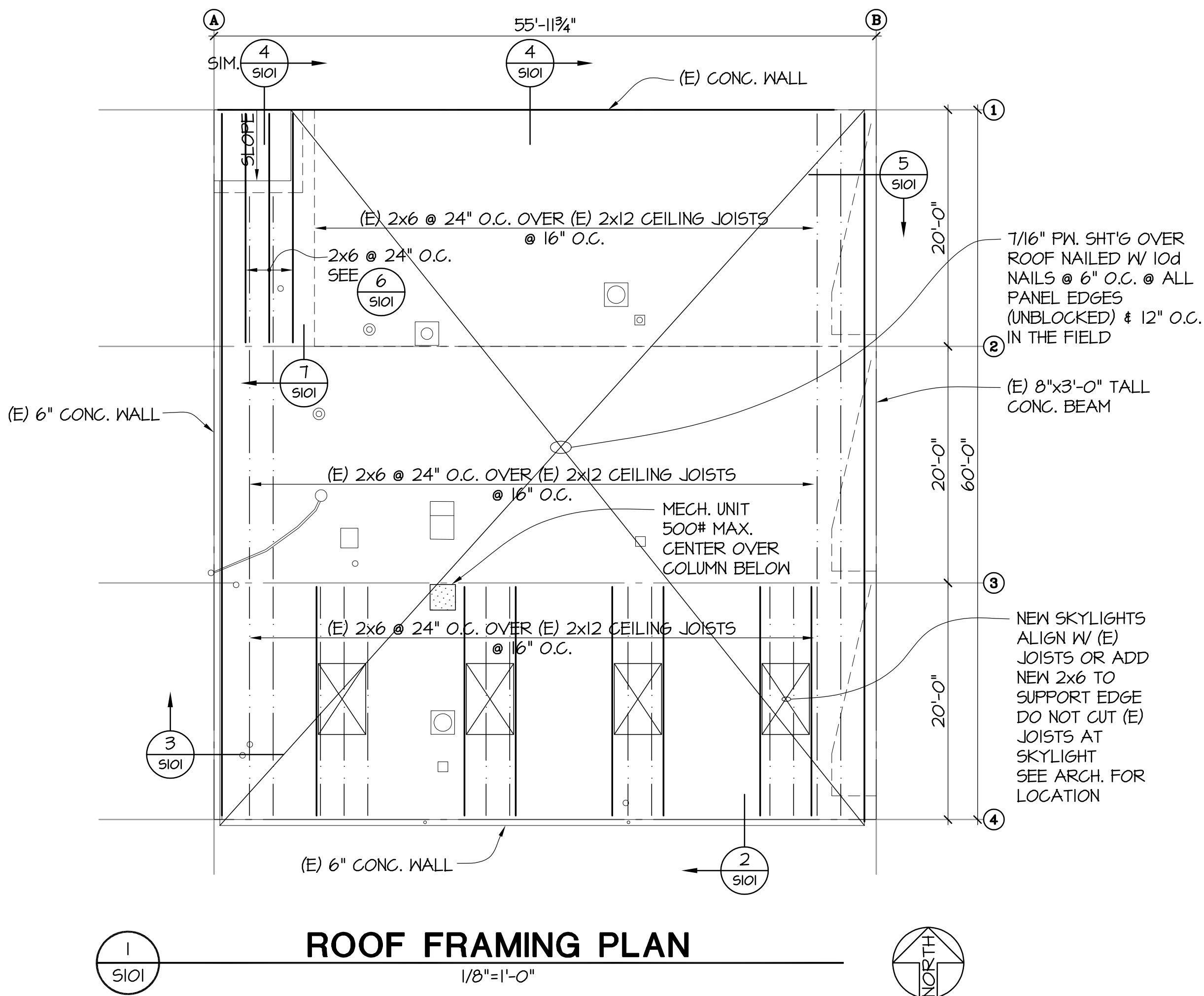


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