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OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

3300 ATWOOD AVENUE MADISON, WI



CITY OF MADISON CONTRACT # 6828

Architecture:

Structural Engineering:

Landscape Architect:

PROJECT # 12017

BID SET

CITY OF MADISON DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION

CITY-COUNTY BUILDING, ROOM 115 210 MARTIN LUTHER KING JR BLVD MADSION, WI 53703

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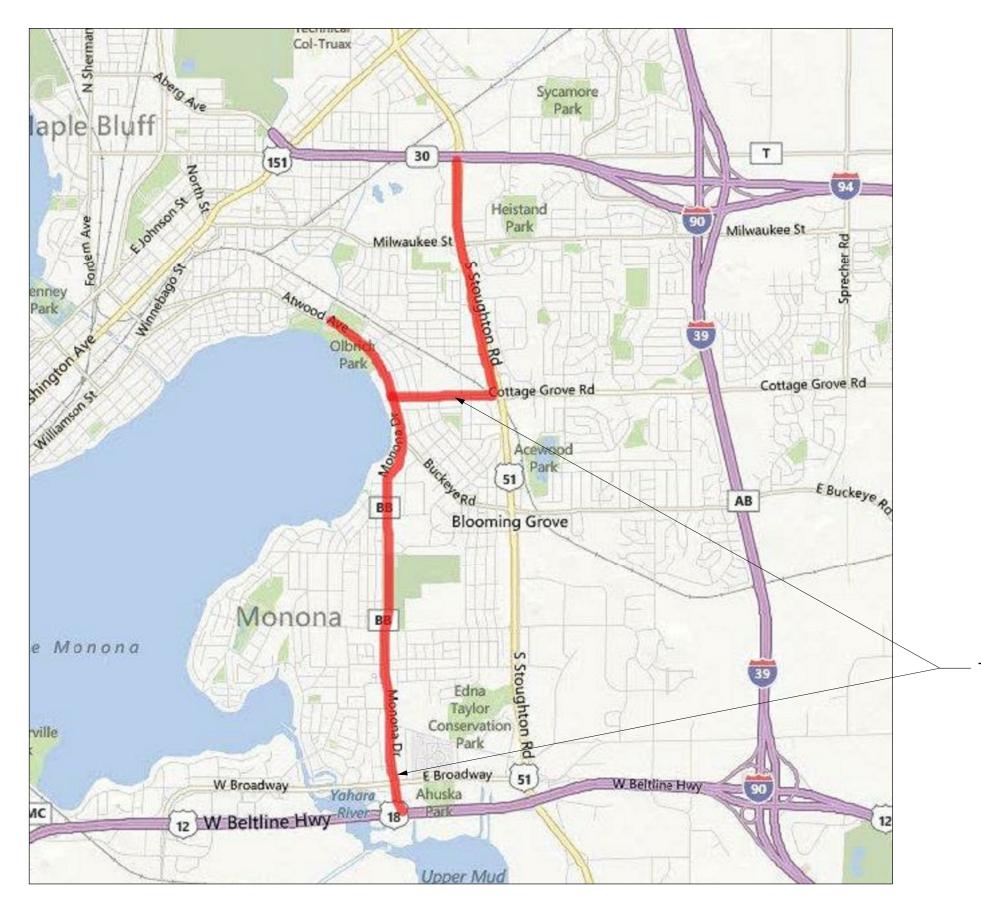
Thomas Dunbar, FASLA

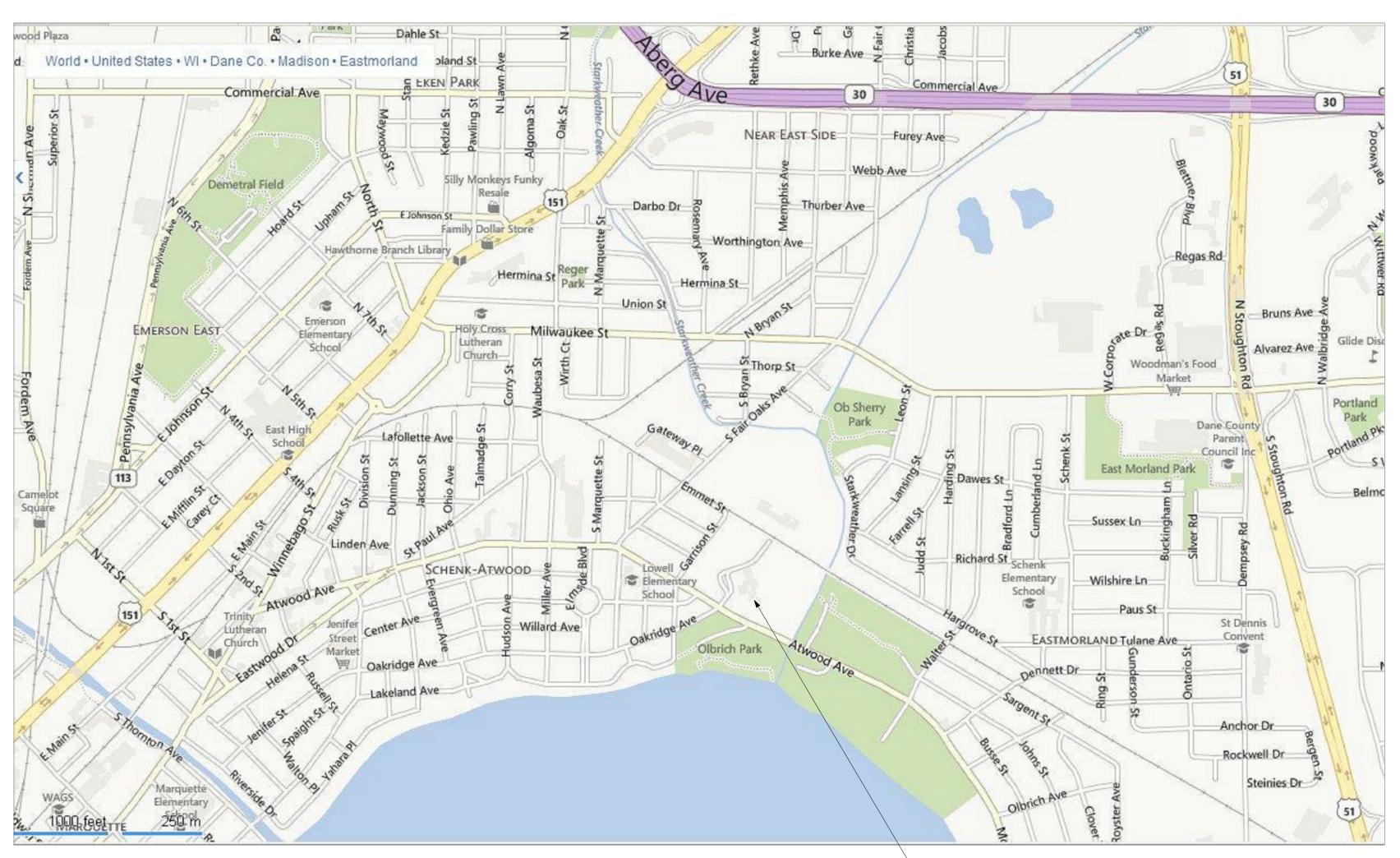
2628 Blue Aster Blvd. Sun Prairie, WI 53590p608.381.0828dunbar.tom@gmail.com

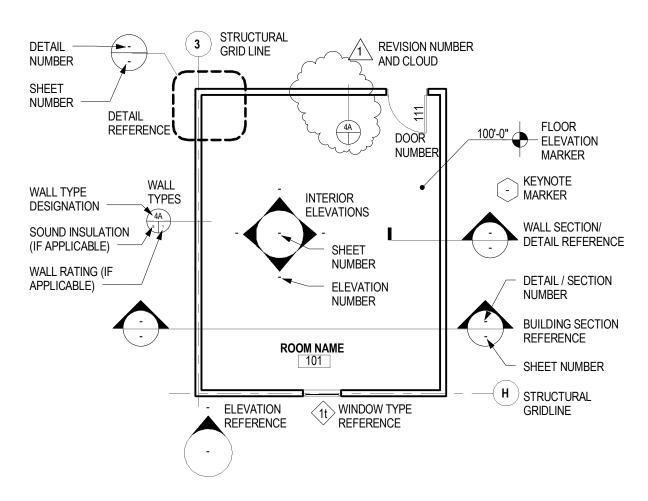
LIST OF DRAWINGS

GENERAL G0.1 COVER SHEET G0.2 PROJECT INFORMATION CIVIL C1.0 TEMPORARY FACILITIES AND CONTROL SITE PLAN LANDSCAPE L1.0 EXISTING LANDSCAPE PLAN L2.0 LANDSCAPE DEMOLITION/ CLEARING, GRUBBING & PROTECTION PLAN STRUCTURAL S1.0 STRUCTURAL NOTES S1.1 ROOF PLAN S1.2 DETAILS ARCHITECTURAL D1.3 ROOF DEMOLITION PLAN A1.1 FIRST FLOOR PLAN A1.3 ROOF PLAN A2.0 EXTERIOR ELEVATIONS A3.0 ROOF SECTIONS & DETAILS A3.1 ROOF SECTIONS & DETAILS A3.2 ROOF SECTIONS & DETAILS A8.0 DETAILS A8.1 DETAILS

G0.1







- TRUCK ROUTES

+	- AND	FIN - FINISH	PREFAB - PREFABRICATED
@	- AT	FLR - FLOOR	PERIM - PERIMETER
	- ANCHOR BOLT	FND - FOUNDATION	PC - PLUMBING CONTRACTOR
	- ABOVE FINISH FLOOR	FOM - FACE OF MASONRY	P/C - PRECAST / PRESTRESSED
ALT	- ALTERNATE	FOS - FACE OF STUD	P/T - POST TENSIONED
ALUM	- ALUMINUM	FTG - FOOTING	PT - PRESSURE TREATED
	- ARCHITECT / ARCHITECTURAL	FUT - FUTURE	
		FV - FIELD VERIFY	R - RADIUS
	ROARD	rv - rield verift	
	- BOARD		RD - ROOF DRAIN
	- BLOCK (CMU)	GA - GAUGE	REINF - REINFORCING
BOT	- BOTTOM	GALV - GALVANIZED	REQD - REQUIRED
		GB - GRAB BAR	RM - ROOM
СВ	- CATCH BASIN	GC - GENERAL CONTRACTOR	
	- CAST-IN-PLACE	GYP - GYPSUM	SCHED - SCHEDULE
CJ	- CONSTRUCTION JOINT		SHT - SHEET
CL	- CENTERLINE	HC - HVAC ONTRACTOR	SIM - SIMILAR
CLG	- CEILING	HM - HOLLOW METAL	SOG - SLAB ON GRADE
	- CONTROL JOINT	HORIZ- HORIZONTAL	SPEC - SPECIFICATION
	- CLEAR DISTANCE		SQ - SQUARE
1	- CONCRETE MASONRY UNIT	HVAC - HEATING, VENTILATION & AIR CONDITIONING	SS - STAINLESS STEEL
C0	- CASED OPENING	HR - HOUR	STL - STEEL
COL	- COLUMN		STR - STRUCTURAL
	- CONCRETE	ID - INSIDE DIAMETER	
	- CONTINUOUS	I.F INSIDE FACE	THK - THICKNESS
CU	- CUBIC	INSUL - INSULATION	TOL - TOP OF LEDGE ELEVATION
		INT - INTERIOR	TOP - TOP OF PIER ELEVATION
DBL	- DOUBLE		TP - TOILET PAPER DISPENSER
DF	- DRINKING FOUNTAIN	JBE - JOIST BEARING ELEVATION	TS - (SEE HIGH STRENGTH STEEL DESIGNATION
	- DIAMETER	JT - JOINT	TYP - TYPICAL
	- DOWN		TOW - TOP OF WALL ELEVATION
	- DOWN SPOUT	L - STEEL ANGLE DESIGNATION	
DTL	- DETAIL	LAM - LAMINATE	UL - UNDERWRITERS LAB
DWG	- DRAWING	LVL - LAMINATED VENEER LUMBER	UNO - UNLESS NOTED OTHERWISE
EA	- EACH	MAX - MAXIMUM	VB - VAPOR BARRIER
	- ELECTRICAL CONTRACTOR	MBW - MASONRY BEARING WALL	VERT - VERTICAL
	- EXTERIOR INSULATION FINISH SYSTEM	MFG - MANUFACTURER	VIF - VERIFY IN FIELD
EL	- ELEVATION	MIN - MINIMUM	
ELEV	- ELEVATOR	MO - MASONRY OPENING	W - WIDTH
	- ENGINEER	MTL - METAL	W/ - WITH
	- EQUAL		W/O - WITHOUT
	- EXISTING	NIC - NOT IN CONTRACT	WC - WATER CLOSET
EXP	- EXPANSION	NOM - NOMINAL	WD - WOOD
EXT	- EXTERIOR	NTS - NOT TO SCALE	WRB - WEATHER RESISTANT BARRIER
		NO - NUMBER	WWF - WELDED WIRE FABRIC
FD	- FLOOR DRAIN		
1	- FOUNDATION	OC - ON CENTER	
FE	- FIRE EXTINGUISHER	OD - OUTSIDE DIAMETER	
FEC	 FIRE EXTINGUISHER CABINET 	O.F OUTSIDE FACE	
FF	- FINISH FLOOR	OH - OVERHEAD	
		OPCI - OWNER PROVIDED, CONTRACTOR INSTALLED	
		OPOI - OWNER PROVIDED, OWNER INSTALLED	
		OPNG - OPENING	
		OPP - OPPOSITE	

PROJECT LOCATION

ARCHITECTURAL ABBREVIATIONS LEGEND

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3300 ATWOOD AVENUE MADISON, WI

PROJECT/ BUILDING DATA:

EXISTING 1 STORY BUILDING ROOF REPLACEMENT

<u>BUILDING AREAS</u> TOTAL BUILDING AREA = UNALTERD

CODE INFORMATION SUMMARY:

APPLICABLE CODE 2009 WISCONSIN COMMERCIAL BUILDING CODE

CONSTRUCTION TYPE TYPE IIB = EXISTING 1 STORY BUILDING

OCCUPANCY B- BUSINESS A3 - ASSEMBLY

FIRE SPRINKLER BUILDING IS NOT SPRINKLERED

FIRE RESISTANCE RATING BUILDING ELEMENTS STRUCTURAL FRAME = NO RATING BEARING WALLS (EXTERIOR AND INTERIOR) = NO RATING NON-BEARING WALLS (EXTERIOR) = 1 HOUR < 10' TO PROPERTY LINE NO RATING > 10' TO PROPERTY LINE FLOOR = NO RATING ROOF = NO RATING

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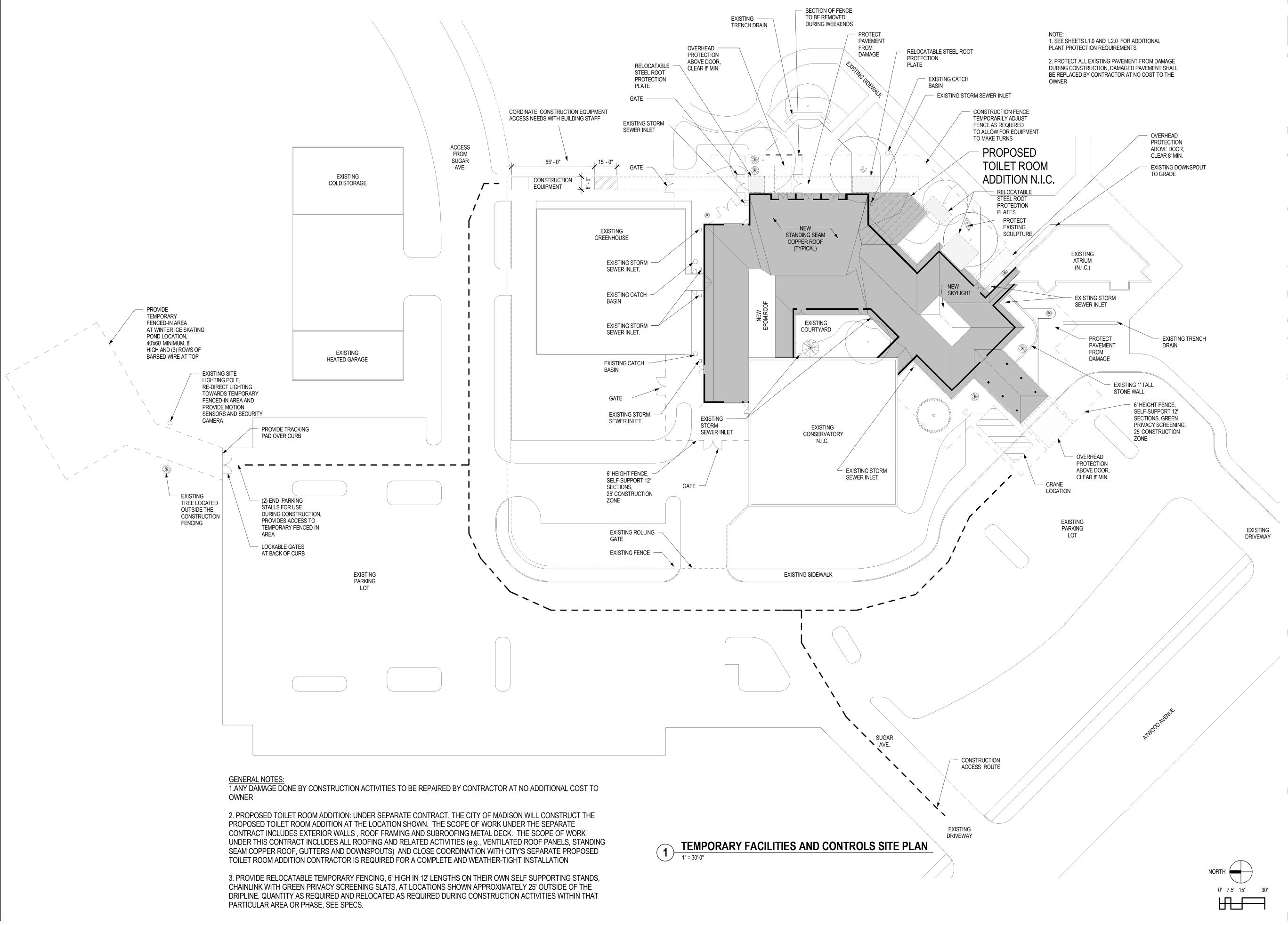
12/11/2012

PROJECT #

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PROJECT INFORMATION





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TEMPORARY FACILITIES AND CONTROL SITE PLAN



PHOTO A



PHOTO B

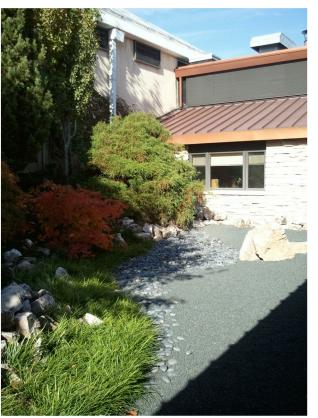
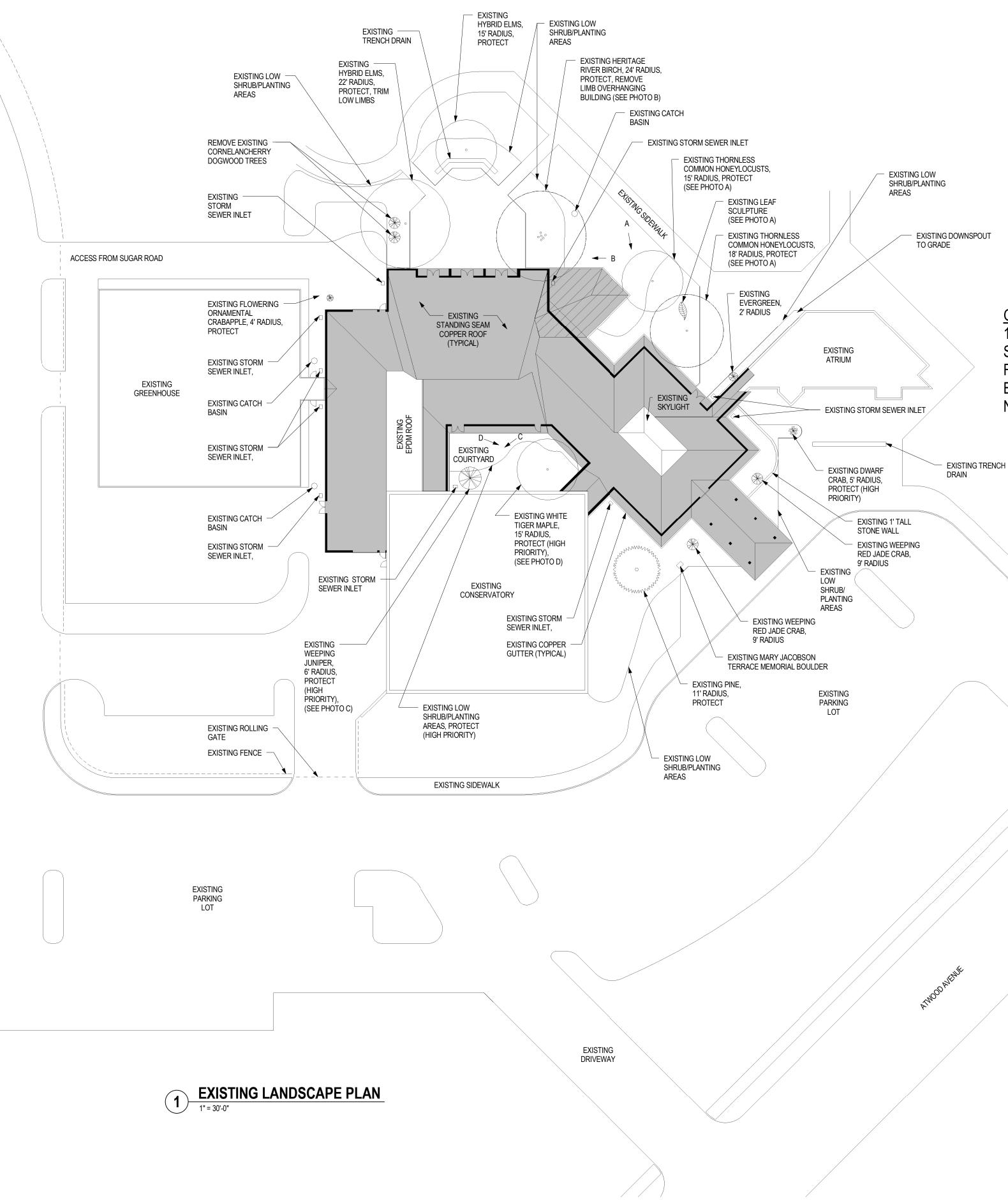


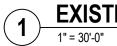
PHOTO C



PHOTO D







GENERAL NOTES: 1.LOW SHRUBS/PLANTINGS NOT SHOWN ON PLAN, REMOVE AS REQUIRED DURING CONSTRUCTION, TO BE REPLACED AFTER CONSTRUCTION N.I.C. (BY OWNER) SEE L2.0

EXISTING

DRIVEWAY

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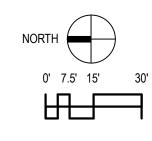
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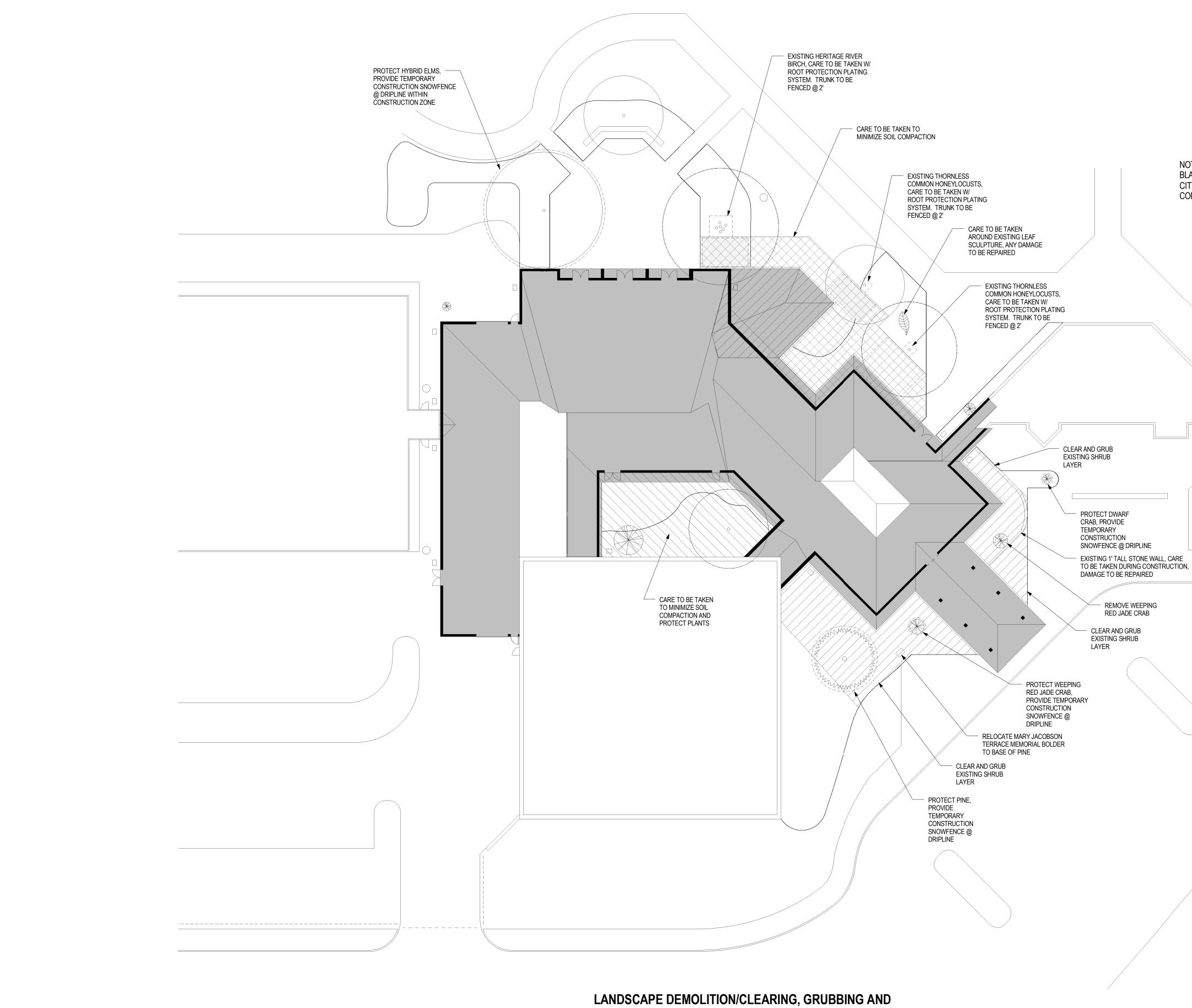
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EXISTING LANDSCAPE PLAN







PROTECTION 1" = 20'-0"

NOTE: BLACK DIRT & LEAF MULCH BEDS CITY WILL PROVIDE THE LEAF MULCH & CONTRACTOR TO INSTALL IT



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NORTH

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STRUCTURAL DESIGN CRITERIA

1) THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

INTERIOR ZONE

INTERIOR ZONE

WALL ROOF

2) GOVERNING BUILDING CODE: 2009 IBC AS AMENDED BY THE STATE OF WISCONSIN.

3) DESIGN LOADS ROOF LIVE LOAD SNOW ______ 30 PSF + DRIFTING SUPERIMPOSED DEAD LOAD BOTTOM CHORD — — — — — — — — 10 PSF SNOW LOADS WIND LOADS BASIC WIND SPEED _____ 90 MPH BUILDING OCCUPANCY CATEGORY ----- ---- ----- ----- II WIND LOAD IMPORTANCE FACTOR (Iw) - - - - - - - - - - - - - - 1.0 WIND EXPOSURE CATEGORY — — — — — — — C INTERNAL PRESSURE COEFFICIENT ---- ---- ---- ---- ± .18 MAIN WINDFORCE-RESISTNG SYSTEM: MWFRS SELECTED EDGE STRIP DISTANCE, (2a) ---- ---- ---- 23.2 FT CALCULATED HORIZONTAL LOADS END ZONE WALL ROOF TRANSVERSE CASE #1: 19.2 psf -5.6 psf 12.8 psf -3.1 psf TRANSVERSE CASE #2: N/A psf N/A psf N/A psf N/A psf 14.3 psf -7.5 psf 9.5 psf -4.5 psf LONGITUDINAL: CALCULATED VERTICAL LOADS END ZONE WINDWARD LEEWARD WINDWARD LEEWARD TRANSVERSE CASE #1: -17.2 psf -11.7 psf -12.0 psf -8.9 psf TRANSVERSE CASE #2: N/A psf N/A psf N/A psf N/A psf -17.2 psf -9.9 psf -12.0 psf -7.6 psf LONGITUDINAL: COMPONENTS AND CLADDING: (SEE ASCE/SEI 7-SECTION 6 FOR ZONE DEFINITIONS AND DIAGRAMS) COMPONENT AND CLADDING SELECTED EDGE STRIP DISTANCE, (a) ----- 11.6 FT TRIBUTARY WIND LOAD AREAS 10 ft^2 50 ft^2 100 ft^2 ROOF (MONOSLOPE): ZONE 1 (NEGATIVE) 14.9 psf 14.0 psf 13.6 psf ZONE 2 (NEGATIVE) 26.0 psf 21.2 psf 19.0 psf ZONE 3 (NEGATIVE) 38.4 psf 32.6 psf 30.1 psf WALLS: ZONE 4 (NEGATIVE) 17.7 psf 16.0 psf 15.2 psf ZONE 5 (NEGATIVE) 21.8 psf 18.5 psf 16.9 psf ZONE 4&5 (POSITIVE) 16.4 psf 14.6 psf 13.9 psf SEISMIC LOADS SEISMIC INFORMATION INFORMATIO SEISMIC DESIGN CATEGORY — — — — — B BASIC SEISMIC FORCE RESISTING SYSTEM:

STRUCTURAL STEEL SYSTEM NOT DETAILED FOR SEISMIC

ANALYSIS PROCEDURE:

4) FOUNDATIONS AND EARTHWORK

5) CONCRETE

R = 3.0 $\Omega_{o} = 3.0$ $C_{d} = 3.0$

EQUIVALENT LATERAL FORCE PROCEDURE

MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'C)

CONCRETE EXPOSED TO EARTH OR WEATHER

COVER ON MILD STEEL REINFORCEMENT

ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS - 3,000 PSF (FROM ORIGINAL DESIGN) FOOTINGS — — — 3,000 PSI PIERS, WALLS _____ ___ ___ ___ ___ ___ ___ ___ 4,000 PSI SLAB-ON GRADE (INTERIOR) ---- --- ---- ---- ---- 3,500 PSI SLAB-ON-GRADE (EXTERIOR) ---- --- --- --- 4.500 PSI

CONCRETE REINFORCEMENT YIELD STRENGTH (Fy) 6) CONCRETE MASONRY DESIGN STRESSES MASONRY (NORMAL WEIGHT) MEETING ASTM C90 - f'm = 2250 PSI GROUT: MIN COMPRESSIVE STRENGTH AT 28 DAYS MEETING ASTM C476 - 3000 PSI 7) STRUCTURAL STEEL STRUCTURAL STEEL YIELD STRENGTH (FY) TUBES _____ 46,000 PSI

WF COLUMNS _____ 50.000 PSI BOLTS FOR STANDARD FRAME CONNECTIONS _____ ___ ___ ___ ___ ___ 3/4" DIAMETER A325 BOLTS FOR SINGLE SHEAR TAB CONNECTIONS _____ ___ ___ ___ 3/4" DIAMETER A325 ANCHOR RODS _____ F1554 WELDING ELECTRODES — — — — — — — — — E70

8) MISCELLANEOUS

VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.

3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

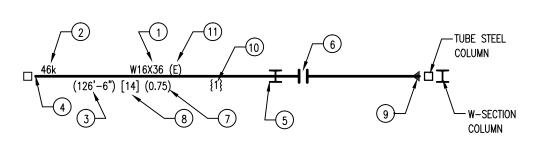
4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.

ELSEWHERE UNLESS OTHERWISE NOTED.

7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE A/E FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

STEEL BEAM NOMENCLATURE



1. INDICATES BEAM SIZE

- 2. INDICATES CONNECTION DESIGNED BY FABRICATOR TO DELIVER 46K VERTICAL LOAD TO CL. OF COL. OR CONNECTING MEMBERS
- 3. INDICATES T/ STEEL EL = 126'-6''
- 4. INDICATES BEAM FRAMING INTO FACE OF COLUMN
- 5. INDICATES BEAM CONTINUOUS OVER COLUMN
- 6. INDICATES TYPICAL BEAM SHEAR SPLICE
- 7. INDICATES REQUIRED UPWARD CAMBER IN BEAM (INCHES)
- 8. INDICATES NUMBER OF 3/4" X 5" SHEAR STUDS FULLY WELDED to top of beam per span

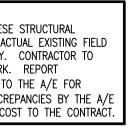
9. INDICATES MOMENT CONNECTION

- 10. INDICATES TYPE OF STUD CONFIGURATION. SEE DETAIL
- 11. INDICATES THE BEAM IS EXISTING

ABBREVIATIONS	
	TOP OF PIER
T/ PIER	
T/ FTG	TOP OF FOOTING
T/ WALL	TOP OF WALL
T/ LEDGE	TOP OF LEDGE
T/ CONC	TOP OF CONCRETE
T/ STEEL	TOP OF STEEL, TOP OF SLAB
FND	FOUNDATION
FX	FOOTING CALL-OUT
BPXX	BASE PLATE CALL-OUT
PX	PIER CALL-OUT
CJ	CONTROL JOINTS
T/ SLAB	TOP OF SLAB
EL	ELEVATION
T/ PC	TOP OF PRECAST
WWF	WELDED WIRE FABRIC
JBE	JOIST BEARING ELEVATION
T/ DECK	TOP OF (METAL) DECK
T/ CAISSON	TOP OF CAISSON
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THESE STRUCTURAL DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS. OTIE MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPERATIVE TO THE NEW WORK. REPORT DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE A/E FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE A/E IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS





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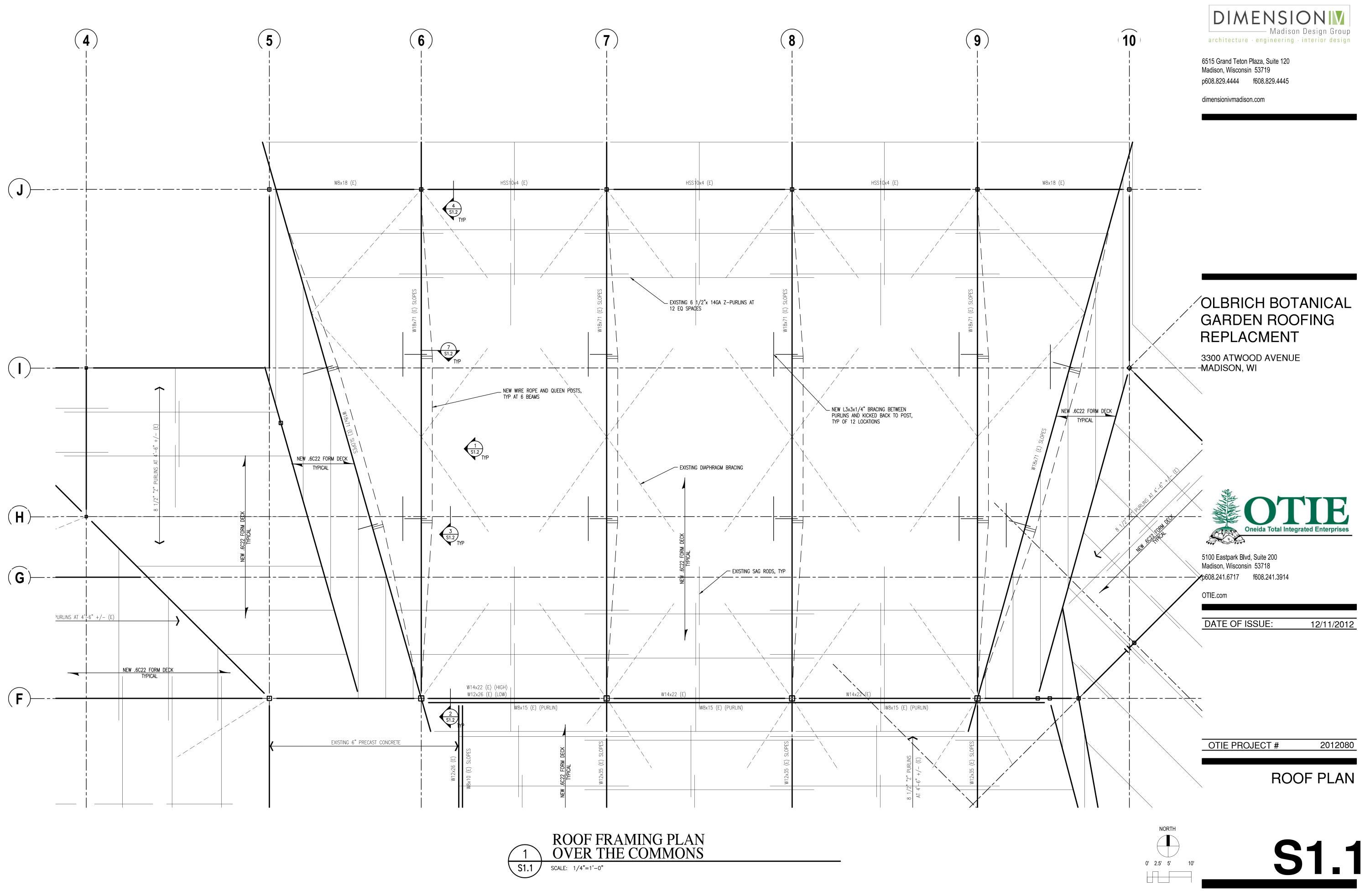
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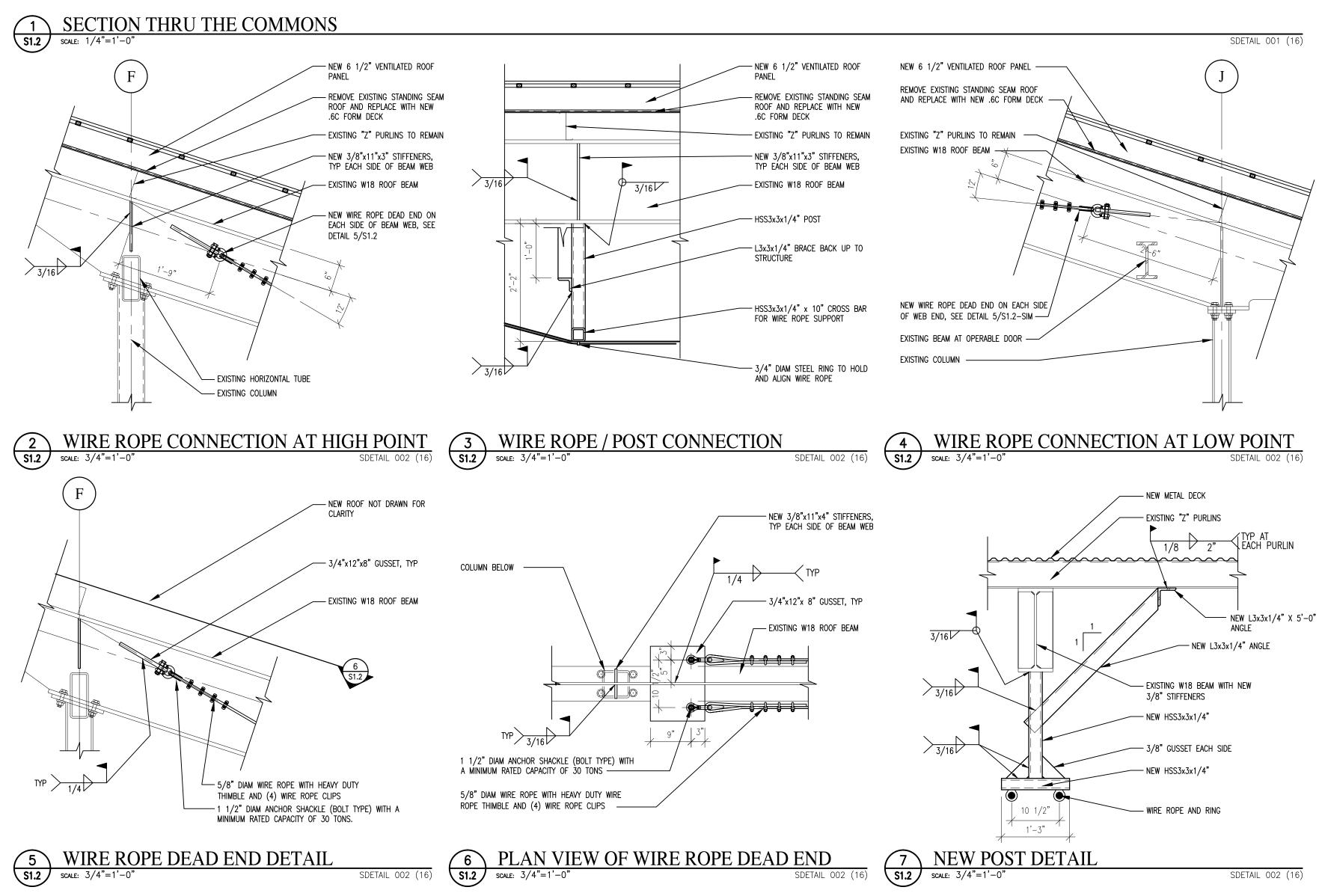
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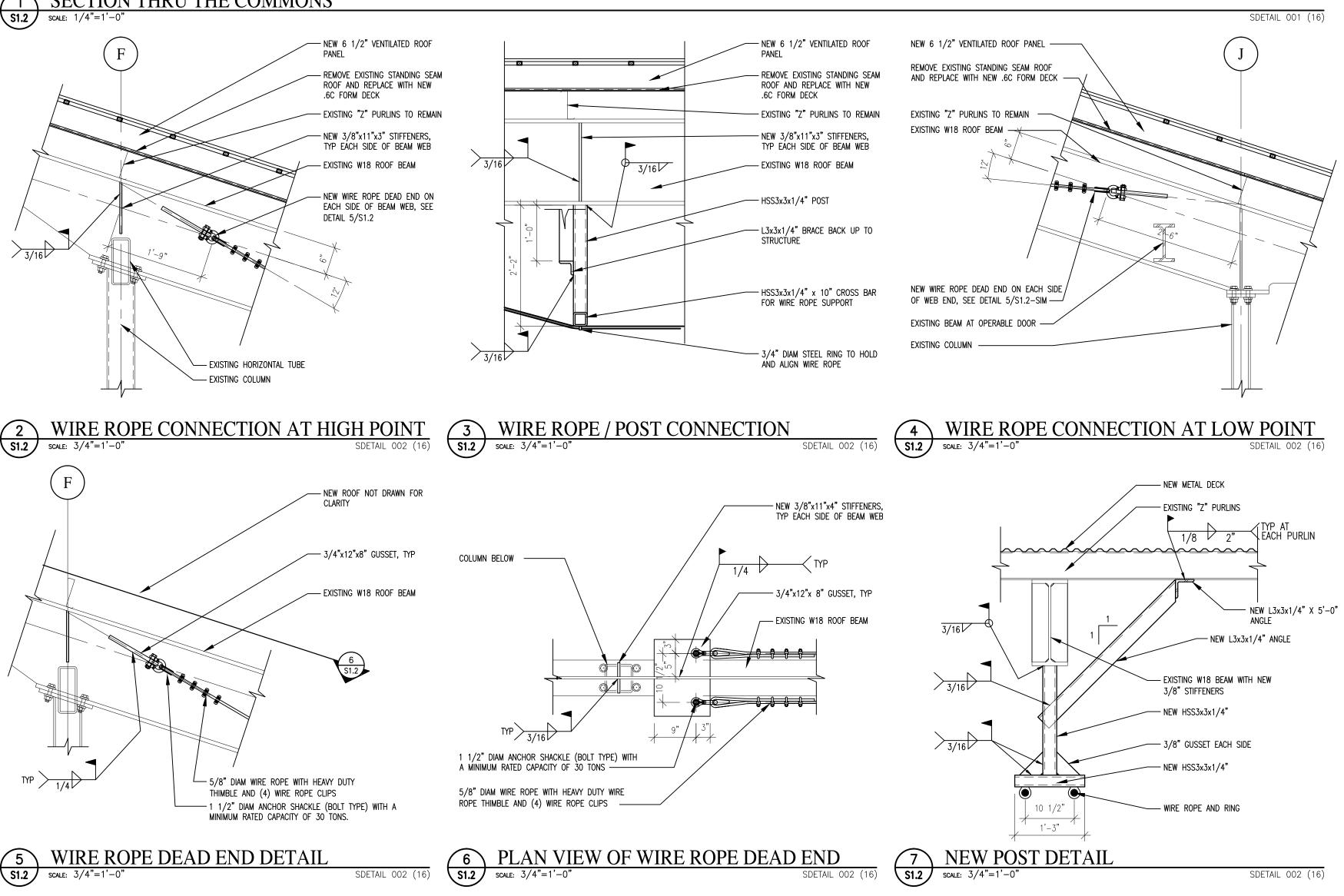
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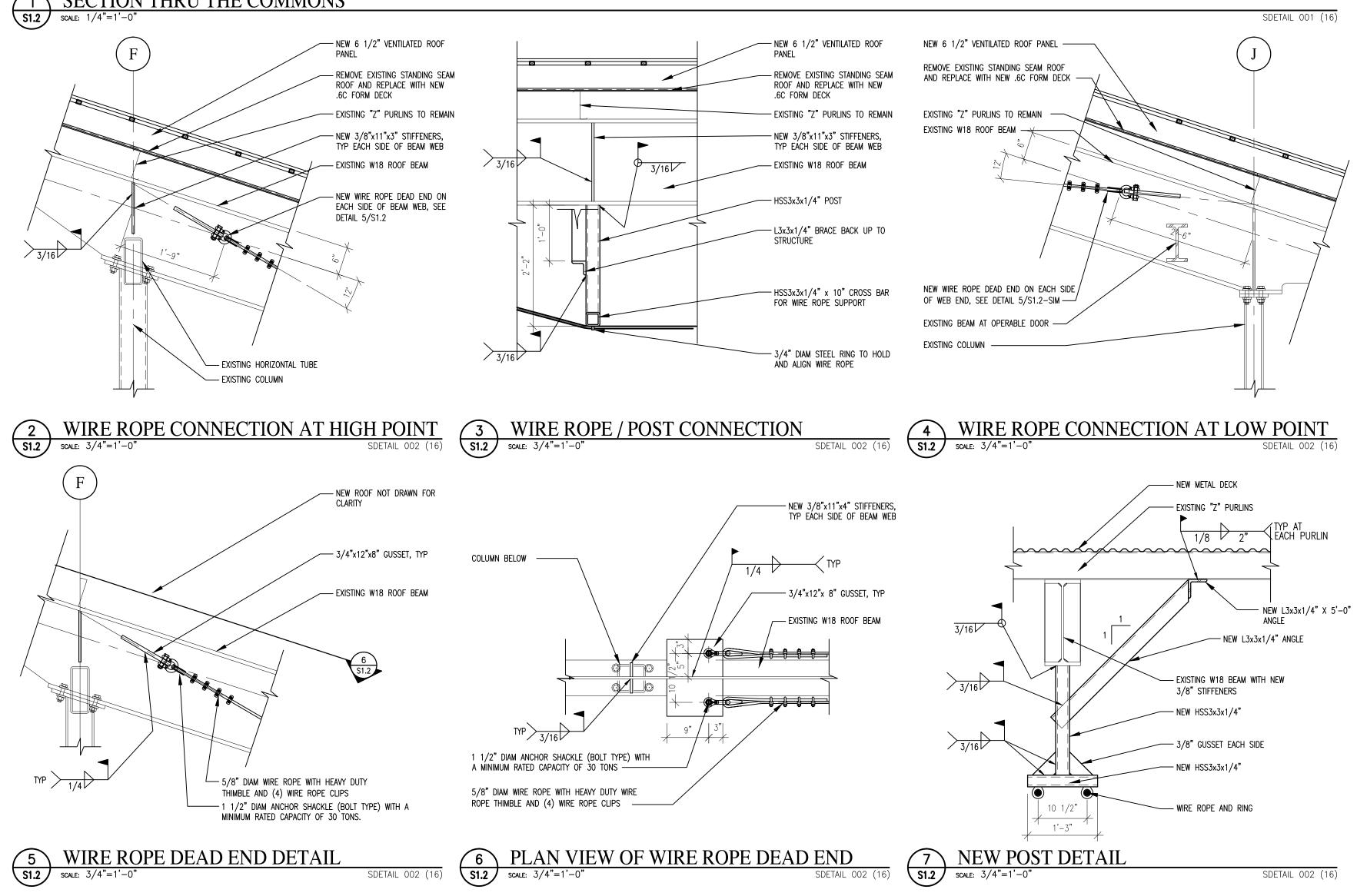
STRUCTURAL DESIGN CRITERIA

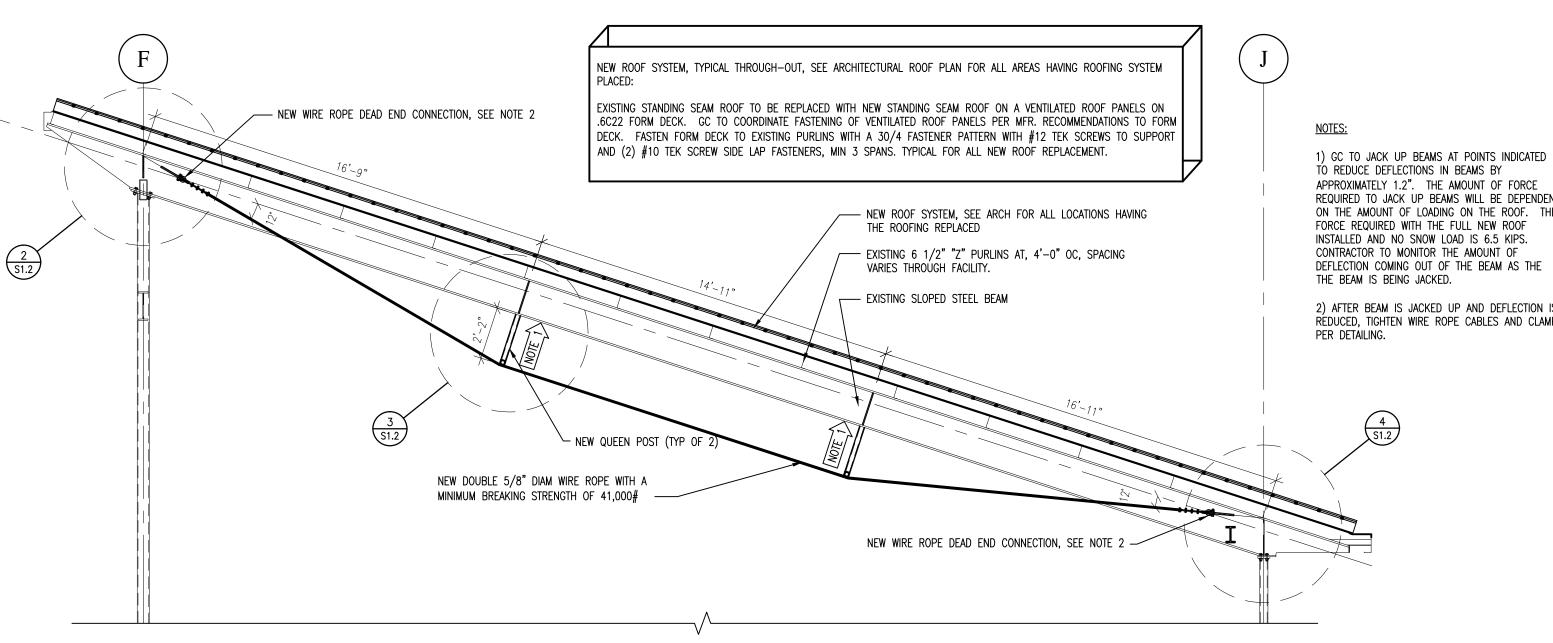


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APPROXIMATELY 1.2". THE AMOUNT OF FORCE REQUIRED TO JACK UP BEAMS WILL BE DEPENDENT ON THE AMOUNT OF LOADING ON THE ROOF. THE FORCE REQUIRED WITH THE FULL NEW ROOF INSTALLED AND NO SNOW LOAD IS 6.5 KIPS. CONTRACTOR TO MONITOR THE AMOUNT OF DEFLECTION COMING OUT OF THE BEAM AS THE THE BEAM IS BEING JACKED.

2) AFTER BEAM IS JACKED UP AND DEFLECTION IS REDUCED, TIGHTEN WIRE ROPE CABLES AND CLAMP

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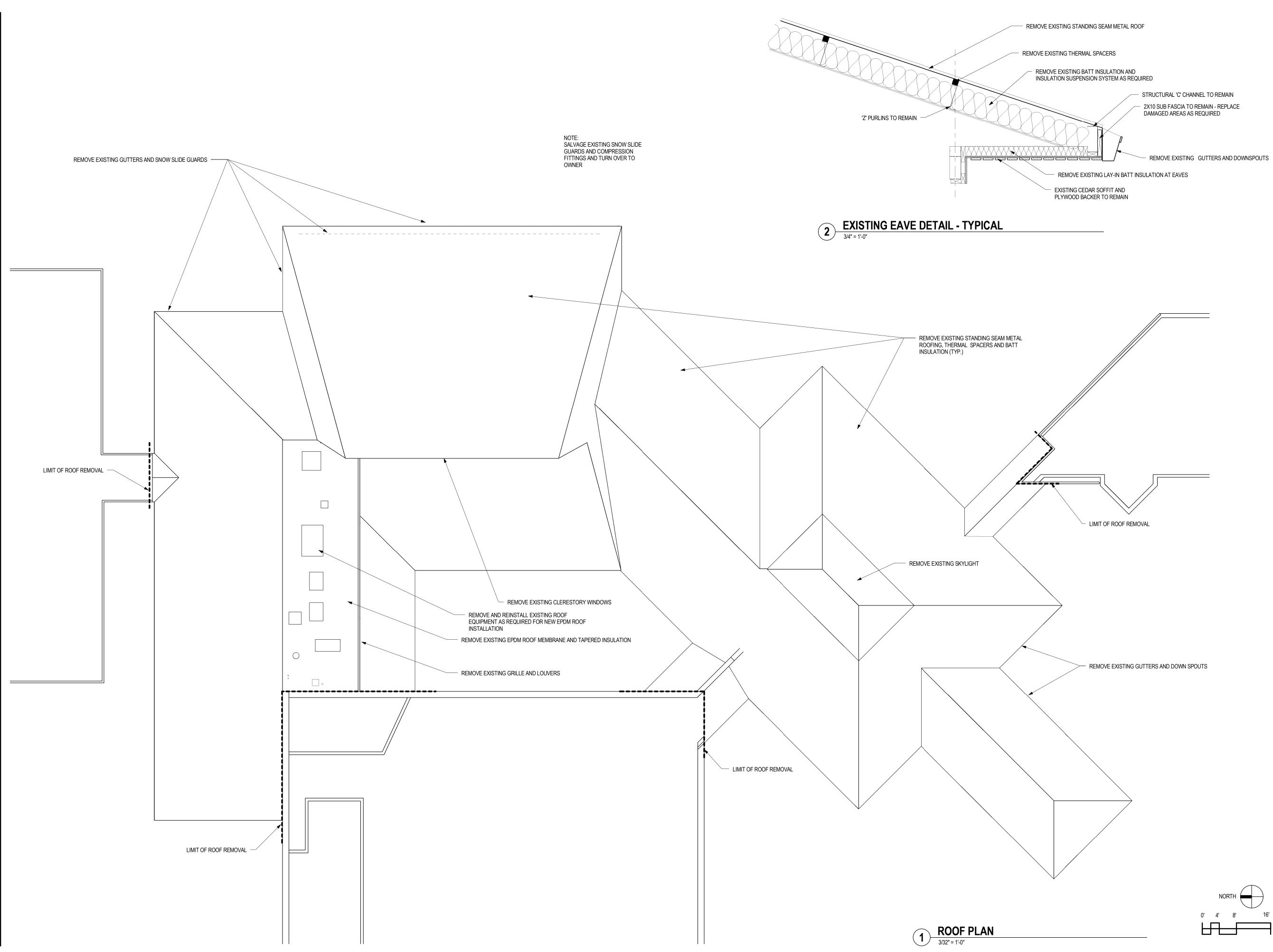
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S1.2



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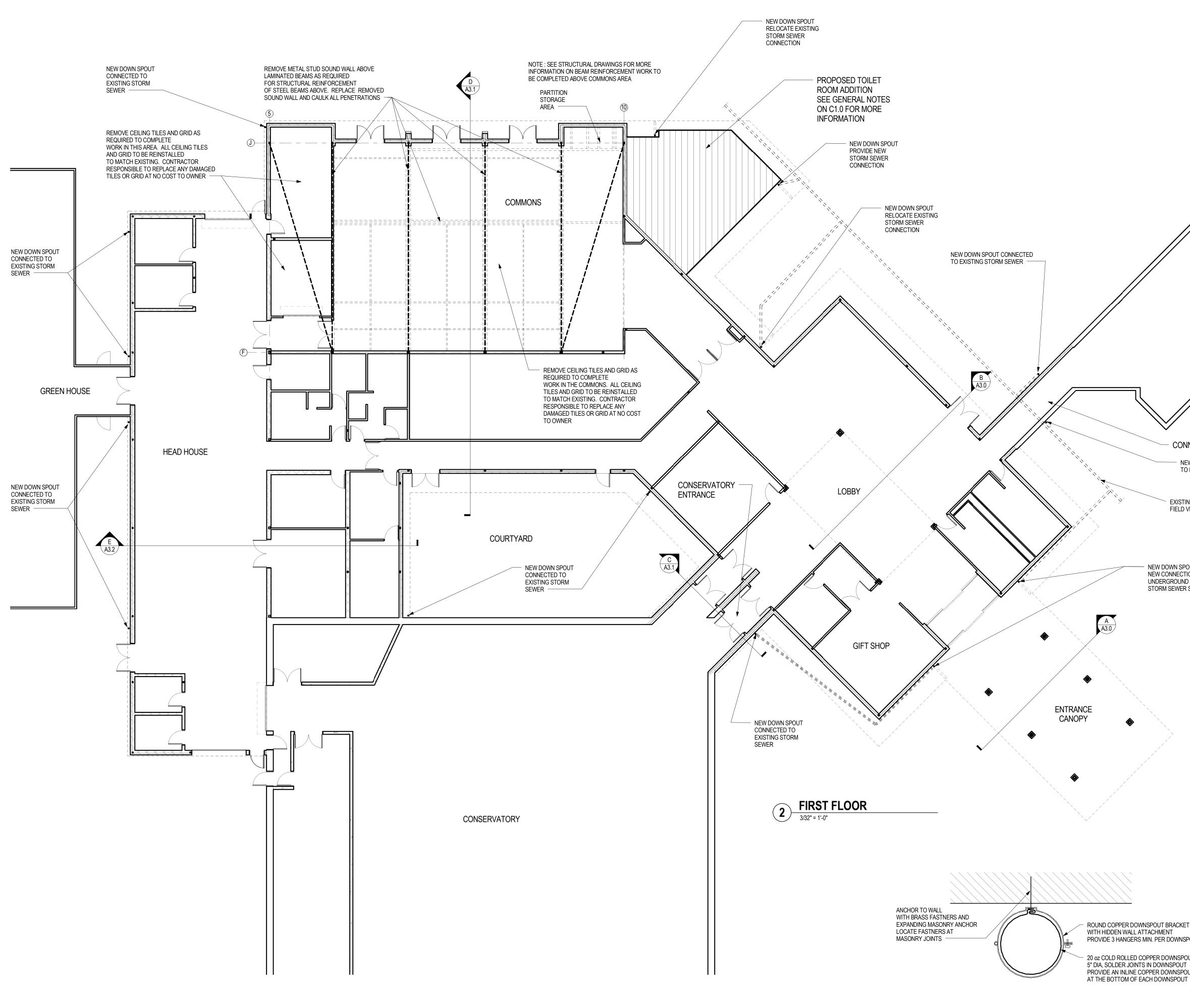
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ROOF DEMOLITION PLAN





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FIRST FLOOR PLAN



ATRIUM

CONNECTOR RAMP - NEW DOWN SPOUT CONNECTED TO EXISTING STORM SEWER EXISTING STORM SEWER LINE FIELD VERIFY ACTUAL LOCATION

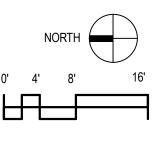
NEW DOWN SPOUT - PROVIDE NEW CONNECTION UNDERGROUND TO EXISTING STORM SEWER SYSTEM

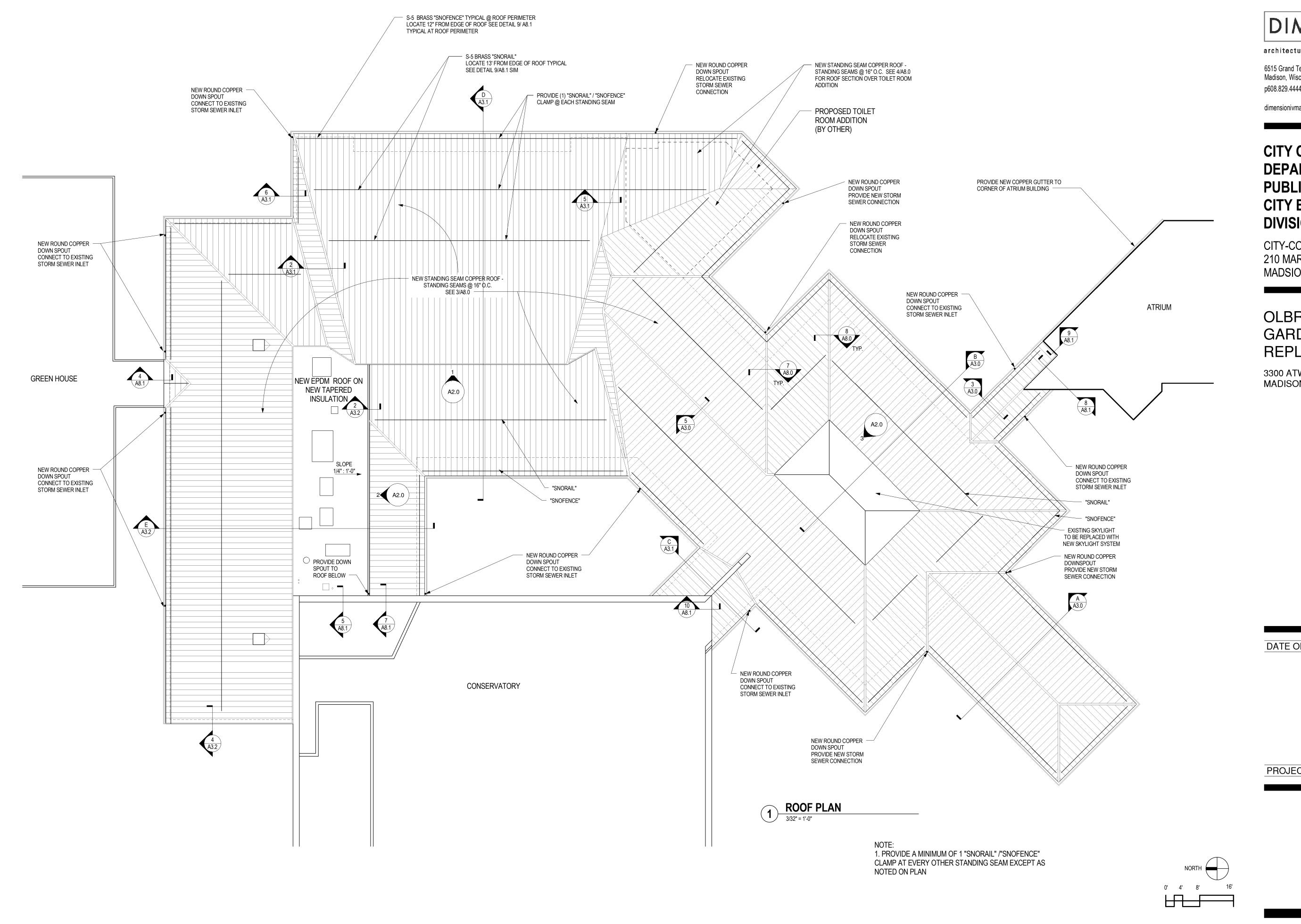
ROUND COPPER DOWNSPOUT BRACKET PROVIDE 3 HANGERS MIN. PER DOWNSPOUT

TYPICAL DOWN SPOUT DETAIL

3" = 1'-0"

20 oz COLD ROLLED COPPER DOWNSPOUT 5" DIA, SOLDER JOINTS IN DOWNSPOUT PROVIDE AN INLINE COPPER DOWNSPOUT CLEAN OUT







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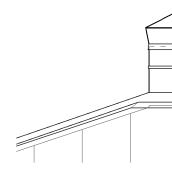
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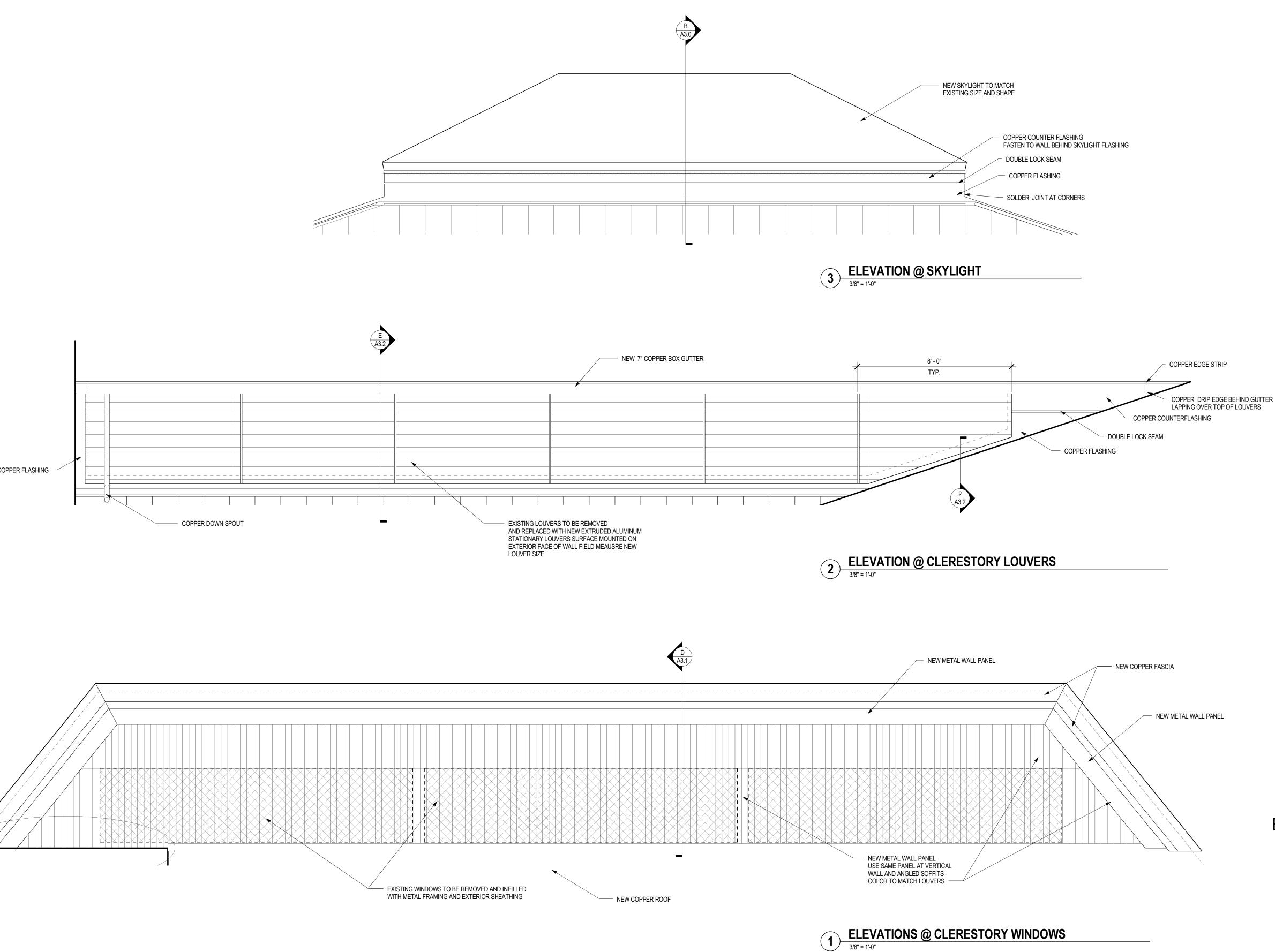
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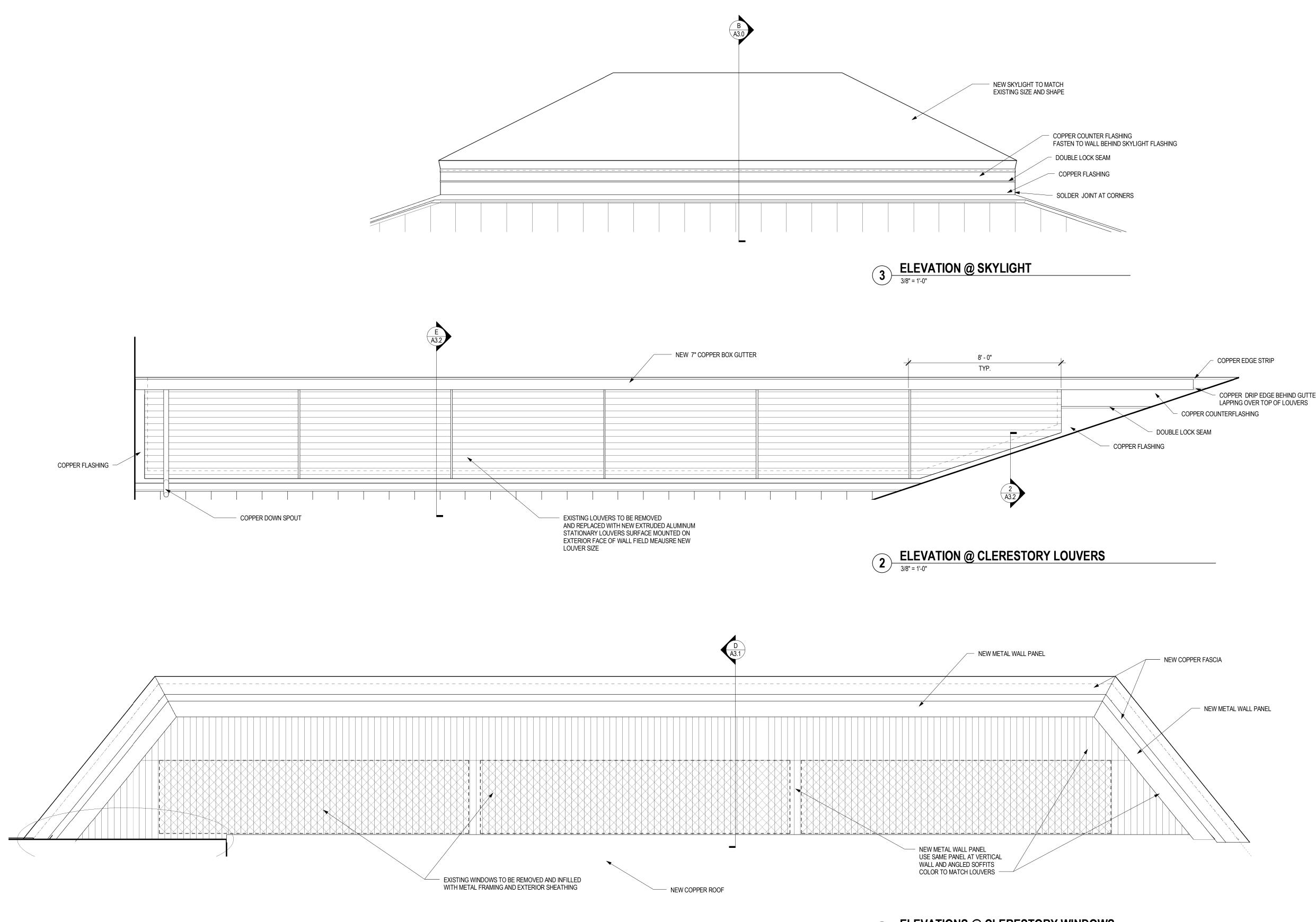
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ROOF PLAN









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CITY-COUNTY BUILDING, ROOM 115 210 MARTIN LUTHER KING JR BLVD MADSION, WI 53703

OLBRICH BOTANICAL GARDENS ROOF REPLACEMENT

3300 ATWOOD AVENUE MADISON, WI

DATE OF ISSUE:

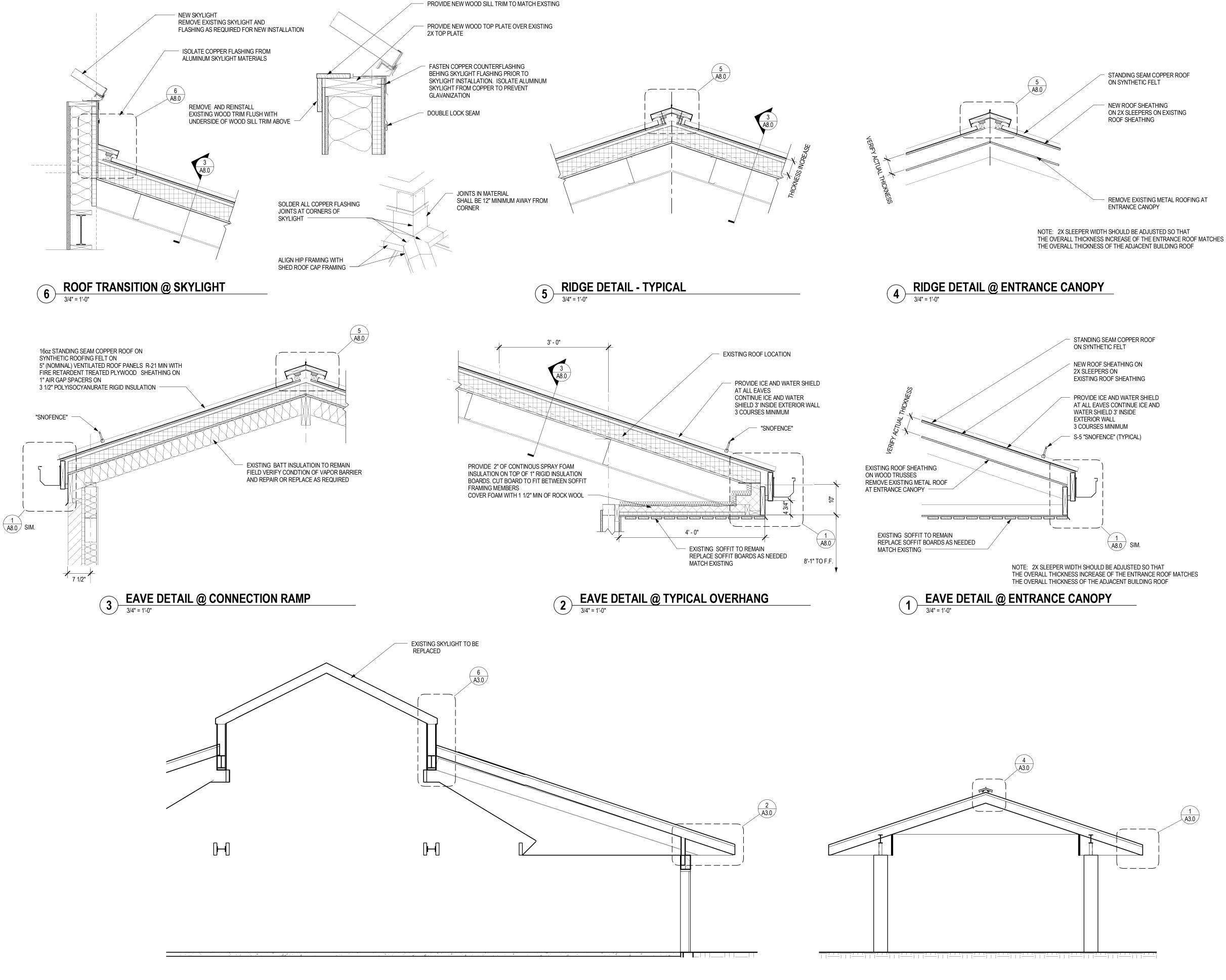
12/11/2012

PROJECT #

12017

EXTERIOR ELEVATIONS







A3.0

ROOF SECTIONS &

PROJECT #

DATE OF ISSUE:

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12017

DETAILS

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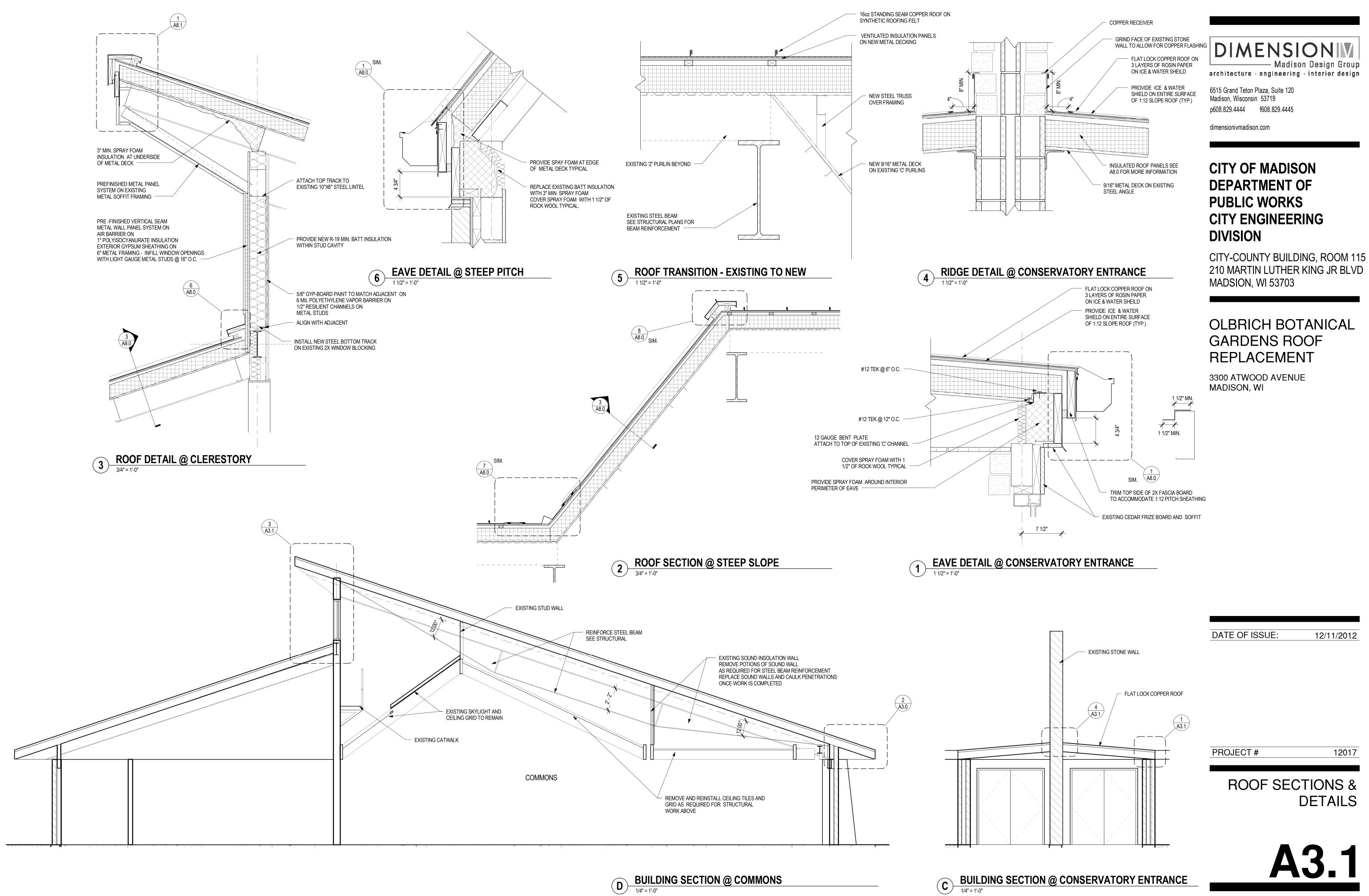
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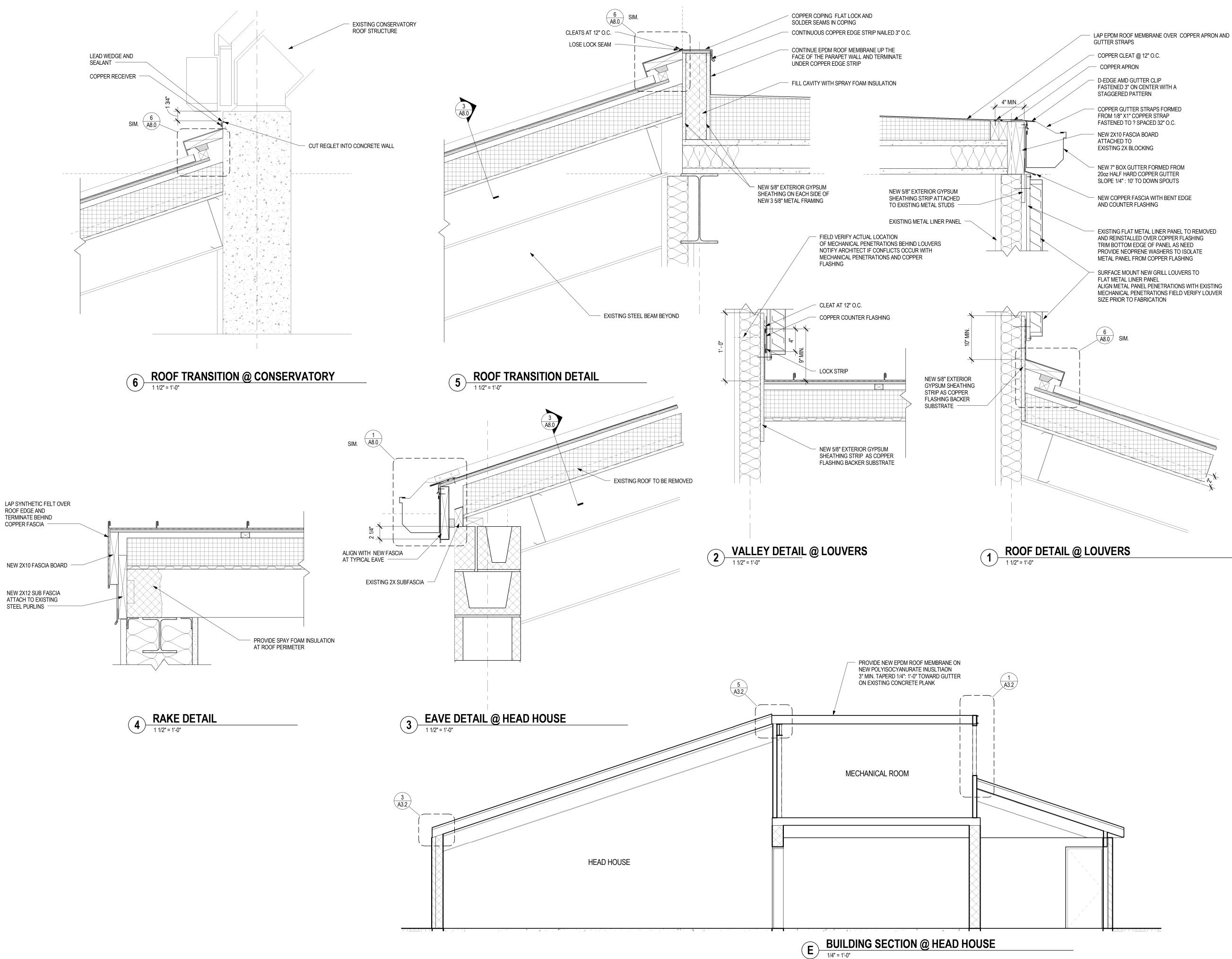
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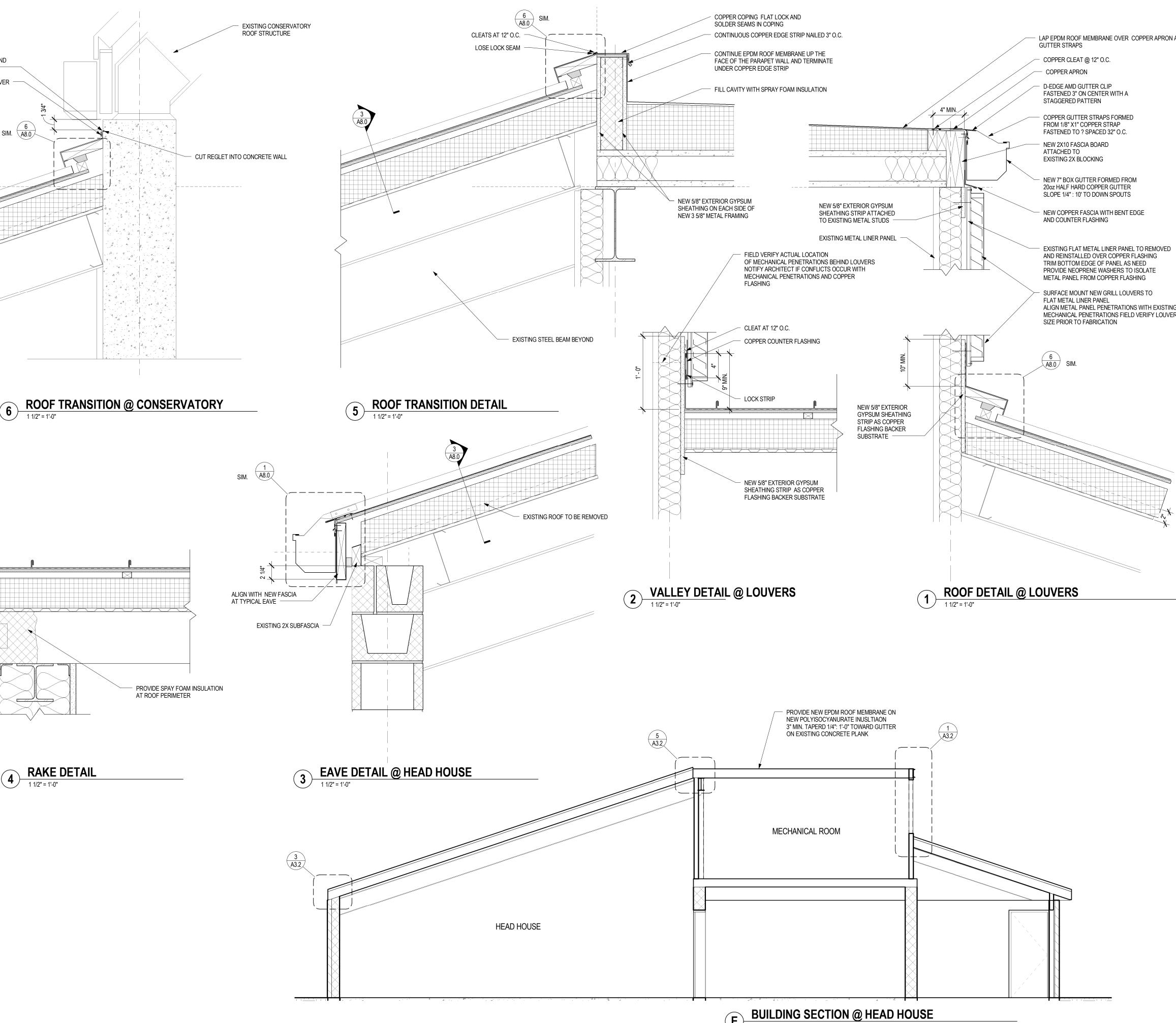
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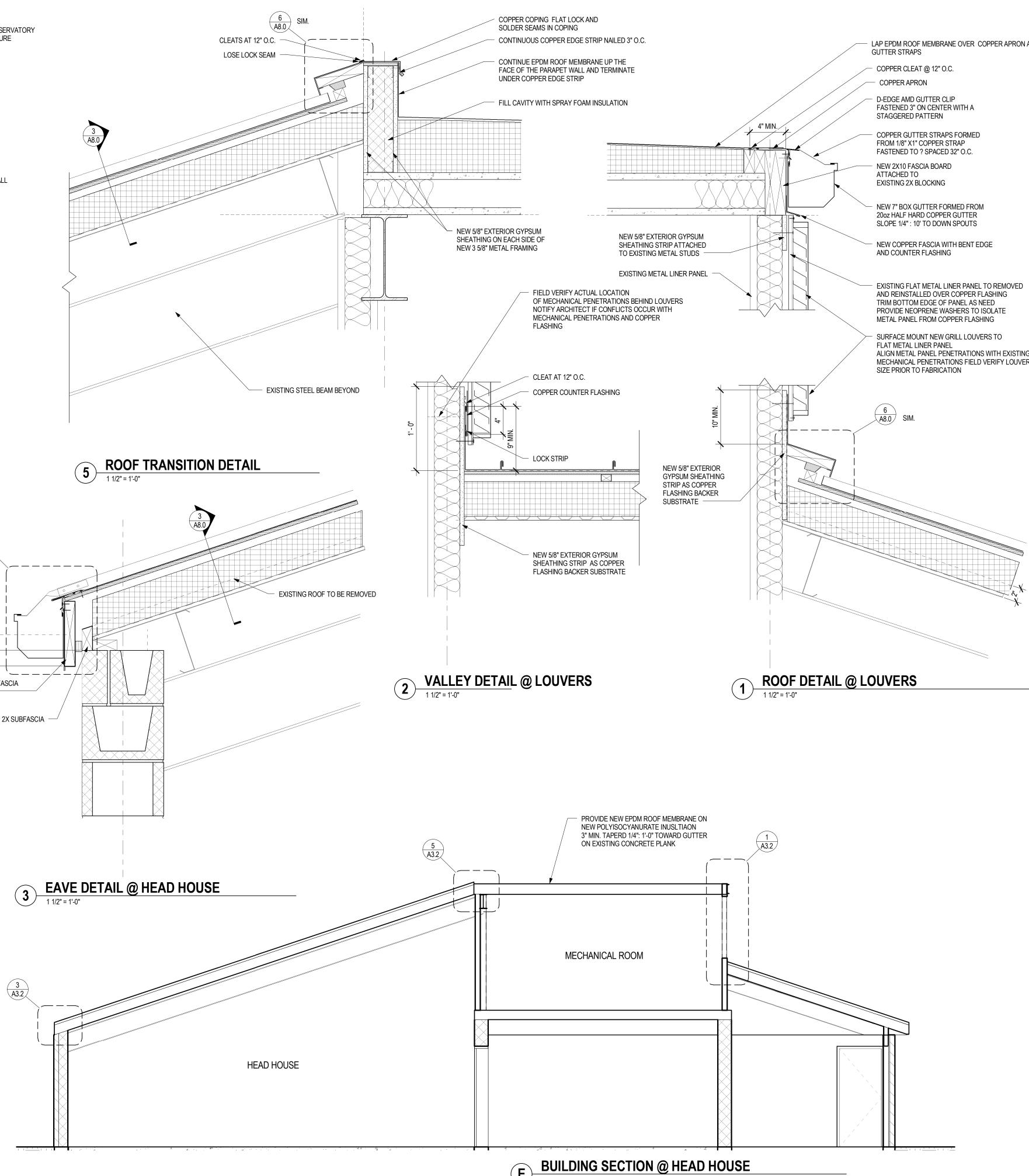
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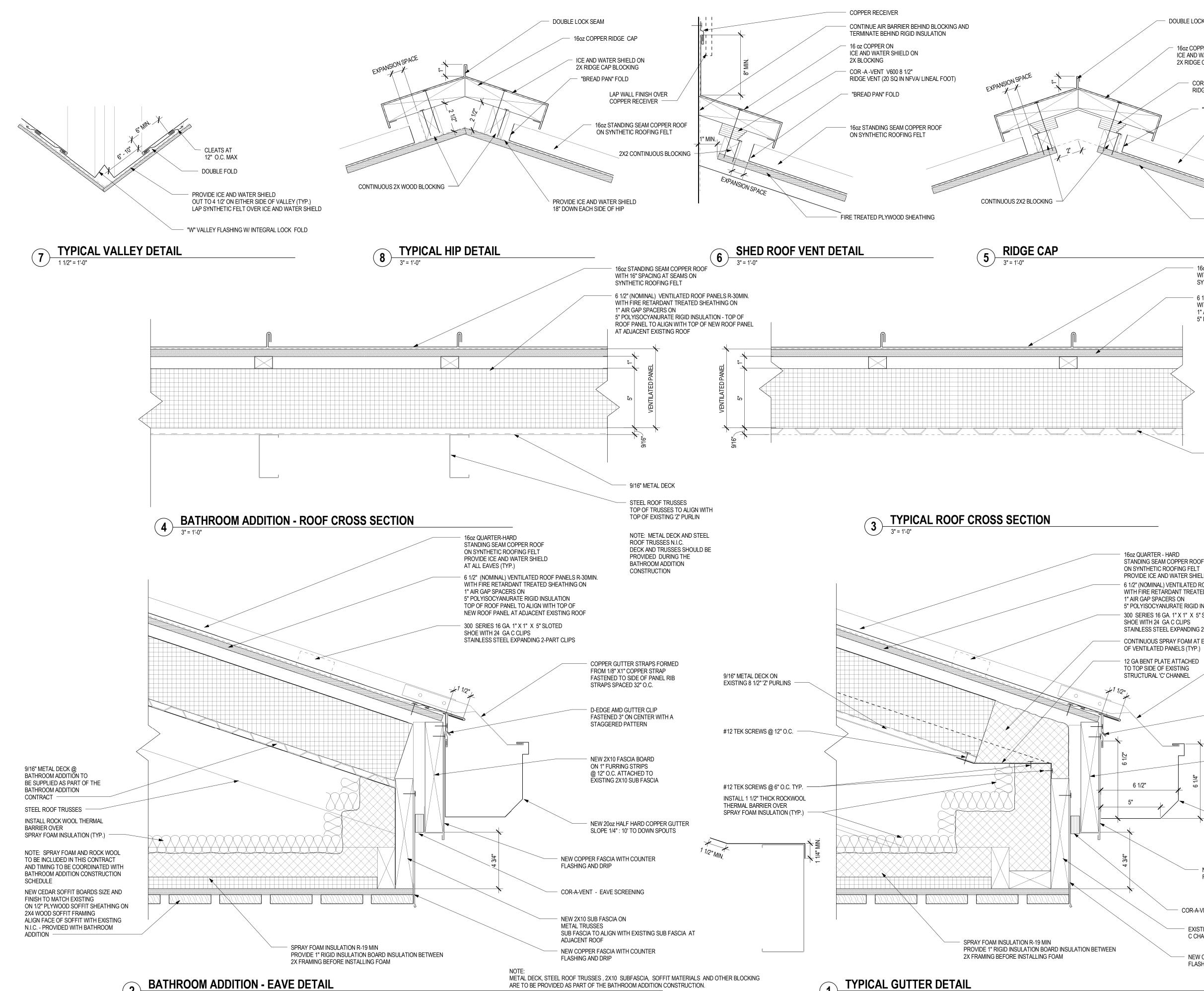
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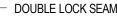
ROOF SECTIONS & DETAILS





ARE TO BE PROVIDED AS PART OF THE BATHROOM ADDITION CONSTRUCTION.

(1)



16oz COPPER RIDGE CAP ON ICE AND WATER SHIELD ON 2X RIDGE CAP BLOCKING

COR -A -VENT V600 8 1/2" RIDGE VENT (20 SQ IN NFVA/ LINEAL FOOT)

"BREAD PAN" FOLD

16oz STANDING SEAM COPPER ROOF ON SYNTHETIC ROOFING FELT

1/2" FIRE TREATED PLYWOOD SHEATHING

16oz STANDING SEAM COPPER ROOF WITH 16" SPACING AT SEAMS ON SYNTHETIC ROOFING FELT

6 1/2" (NOMINAL) VENTILATED ROOF PANELS R-30 MIN. WITH FIRE RETARDANT TREATED SHEATHING ON 1" AIR GAP SPACERS ON **5" POLYISOCYANURATE RIGID INSULATION**

> 9/16" METAL DECK ON EXISTING 8 1/2" 'Z' PURLINS

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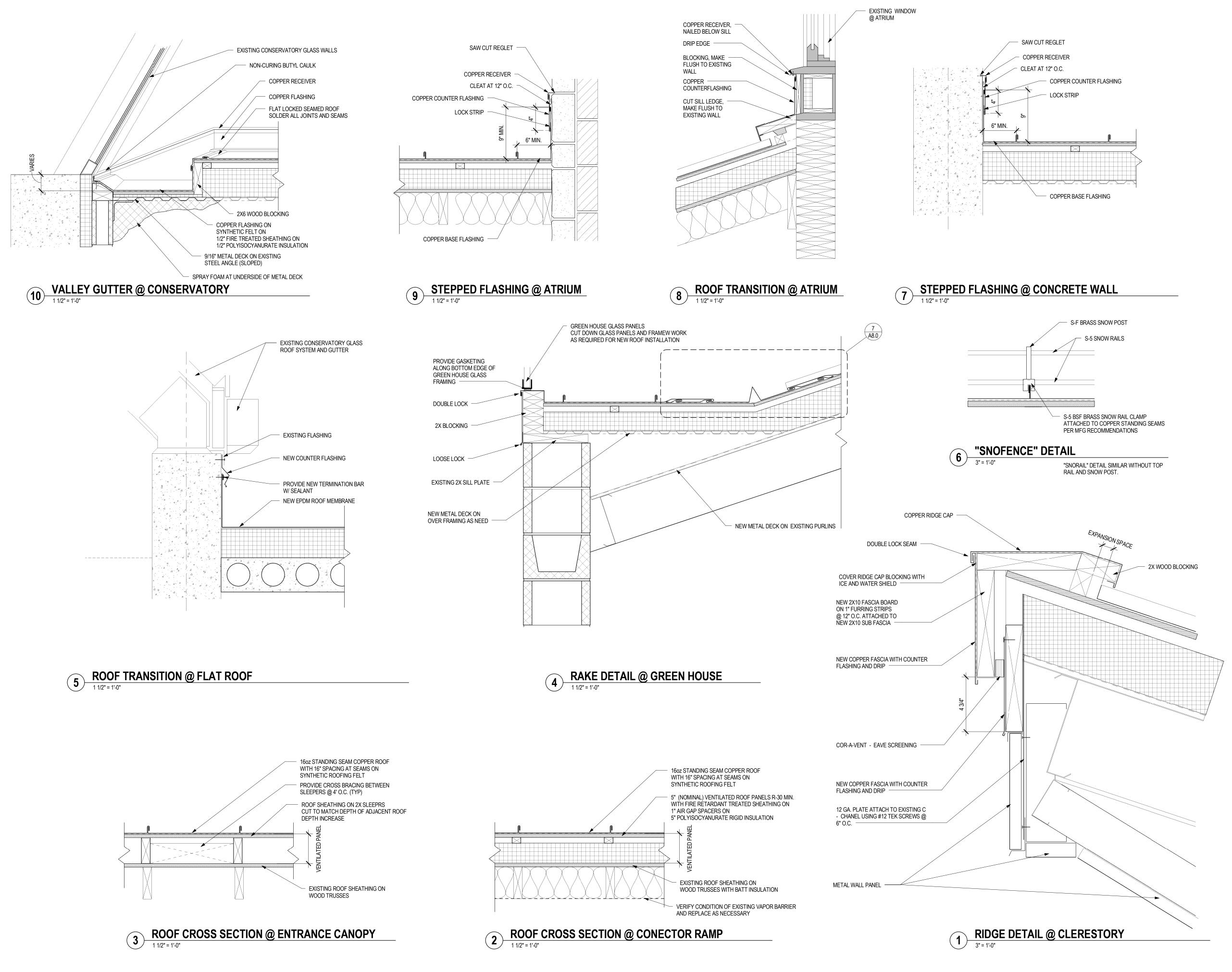
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ON SYNTHETIC ROOFING FELT PROVIDE ICE AND WATER SHIELD AT ALL EAVES (TYP.) 6 1/2" (NOMINAL) VENTILATED ROOF PANELS R-30 MIN. WITH FIRE RETÁRDANT TREATED SHEATHING ON **5" POLYISOCYANURATE RIGID INSULATION** 300 SERIES 16 GA. 1" X 1" X 5" SLOTED SHOE WITH 24 GA C CLIPS STAINLESS STEEL EXPANDING 2-PART CLIPS CONTINUOUS SPRAY FOAM AT EDGE OF VENTILATED PANELS (TYP.) 12 GA BENT PLATE ATTACHED COPPER GUTTER STRAPS FORMED TO TOP SIDE OF EXISTING FROM 1/8" X1" COPPER STRAP STRUCTURAL 'C' CHANNEL FASTENED TO SIDE OF PANEL RIB STRAPS SPACED 32" O.C. DATE OF ISSUE: 12/11/2012 D-EDGE AMD GUTTER CLIP FASTENED 3" ON CENTER WITH A STAGGERED PATTERN NEW 2X10 FASCIA BOARD ON 1" FURRING STRIPS @ 12" O.C. ATTACHED TO **EXISTING 2X10 SUB FASCIA** NEW 7" BOX GUTTER FORMED FROM 20oz HALF HARD COPPER GUTTER SLOPE 1/4" : 10' TO DOWN SPOUTS PROJECT # 12017 DETAILS NEW COPPER FASCIA WITH COUNTER FLASHING AND DRIP - COR-A-VENT - EAVE SCREENING EXISTING 2X10 SUB FASCIA ON EXISTING C CHANNEL ANCHORED TO STEEL BEAM $\mathbf{A8.0}$ NEW COPPER FASCIA WITH COUNTER FLASHING AND DRIP



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