

1120 SOUTH DORA ST
UKIAH, CALIFORNIA, 95482

DRAWING INDEX

SUMMARY OF THE PROJECT SCOPE OF WORK INCLUDES - BUT IS NOT LIMITED TO - THE FOLLOWING:

- REPLACEMENT OF THE EXISTING ROOF SYSTEM
- UPGRADE TO THE EXISTING DRAINAGE SYSTEM
- REPLACEMENT OF EXISTING MECHANICAL UNITS, SEE MECHANICAL FOR EXTENT

GENERAL NOTES

1. **EXISTING CONSTRUCTION:** EXISTING

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A100	REFERENCE PLAN, CEILING ACCESS
A101	ROOF DEMOLITION PLAN
A102	SOUTH WING ROOF PLAN
A501	DETAILS - ROOF
A502	DETAILS - ROOF
S100	STRUCTURAL FRAMING
S501	TYPICAL SUSPENDED CEILING DETAILS SHEET
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MP501	MECHANICAL & PLUMBING SCHEDULE, DETAILS AND LEGENDS
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E801	LIGHTING TITLE 24

GENERAL NOTES

1. **EXISTING CONSTRUCTION:** EXISTING CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL ALWAYS BE PREFIXED BY "EXISTING" OR (E).
2. **NEW CONSTRUCTION:** NEW CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, SHALL BE EITHER UN-PREFIXED OR PREFIXED BY "NEW" (N), OR (NEW).
3. **EXISTING CONDITIONS AND DIMENSIONS:** FIELD VERIFY ALL CONDITIONS AND DIMENSIONS; REPORT DISCREPANCIES TO ARCHITECT PRIOR TO COMMENCING WORK.
NOTE: INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM ORIGINAL DRAWINGS PROVIDED BY THE COUNTY AND FROM LIMITED EXPLORATORY OBSERVATIONS. ALTHOUGH THE ARCHITECT ASSUMES THESE SOURCES TO BE RELIABLE AND OBSERVED CONDITIONS TO BE REPRESENTATIVE, ACTUAL CONDITIONS AND DIMENSIONS MAY VARY.
4. **REFERENCE DRAWINGS:** PDF FILES OF THE ORIGINAL CONSTRUCTION SET ARE AVAILABLE UPON REQUEST TO THE COUNTY.
5. **OBsolete EQUIPMENT:** PRIOR TO PROCEEDING WITH WORK, THE COUNTY WILL IDENTIFY ALL OBSOLETE EQUIPMENT, CONDUIT, ETC. THAT THE CONTRACTOR SHALL REMOVE AS PART OF THE SCOPE OF WORK.
6. **CURB-MOUNTED EQUIPMENT & LOUVERS:** THE TERM "CURB MOUNTED" ITEMS INCLUDES - BUT IS NOT LIMITED TO - MECHANICAL UNITS, EXHAUST FANS, AND SIMILAR ITEMS. CURB MOUNTED ITEMS ABOVE THE MINIMUM HEIGHT OF 6" MINIMUM ABOVE THE SURFACE OF THE ADJOINING ROOF PLANE IN CONFORMANCE WITH NRCA, WHERE NEW CURBS ARE NOT SPECIFICALLY REQUIRED BY THE DRAWINGS, THE (E) CURB MAY BE MODIFIED AS REQUIRED TO PROVIDE A HEIGHT OF 8 INCHES MINIMUM.
7. **EXISTING (E) TO REMAIN:** WHERE NOTED, "(E) TO REMAIN" INDICATES AN (E) ITEM THAT WILL REMAIN IN EXISTING CONDITION. WHERE NOTED, "(E) TO REMOVE/ DISCONNECTION/RECONNECTION OF THE (E)" ITEM IN ORDER TO INSTALL THE NEW ROOFING SYSTEM AND ASSOCIATED FLASHINGS AND ACCESSORIES.
8. **REMOVAL OF EXISTING PENETRATION FLASHINGS:** UH, DEMOLITION WORK INCLUDES REMOVAL OF ALL (E) FLASHINGS AND CLEANING OF THE PENETRATING OBJECT AS REQUIRED TO PREPARE FOR INSTALLATION OF NEW PENETRATING FLASHING. UH, DEMOLITION OF PENETRATING OBJECTS INCLUDES - BUT ARE NOT LIMITED TO - THE FOLLOWING: CONDUITS AND VENTS.

PROJECT DATA

IN.	INCH(ES)
I.D.	INSIDE DIAMETER
INSUL	INSULATION
ISA	INTERNATIONAL SYMBOL OF AREA
JT.	JOINT
JST.	JOIST
L.	LONG (LENGTH)
MAX.	MAXIMUM
M.B.	MACHINE BOLTS
MECH.	MECHANICAL
MET.	METAL
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MIN.	MINIMUM

P.T.	PRESSURE TREATED
PT.	POINT
R.	RISER
RAD.	RADIUS
REINF.	REINFORCEMENT
REQD.	REQUIRED
RES.	RESILIENT
R.O.	ROUGH OPENING
R.S.	ROUGH SAWN
RDWD.	REDWOOD
RO.	ROUGH
R.W.L.	RAIN WATER LEADER

S.C.D. SEE CIVIL DRAWINGS
S.E.D. SEE ELECTRICAL DRAWINGS
S.L.D. SEE LANDSCAPE DRAWINGS
S.M.D. SEE MECHANICAL DRAWINGS
S.S.D. SEE STRUCTURAL DRAWINGS
SHT. SHEET
S.H. SINGLE HUNG
SIM. SIMILAR
SLDR. SLIDER
SMD SEE MECHANICAL DRAWINGS
SMS SHEET METAL SCREW(S)
S.O.G. SLAB ON GRADE
SPEC(S) SPECIFICATION(S)
SQ. SQUARE

STRUC. SYM.	STRUCTURAL SYMMETRICAL
T.	TREAD
T.&B.	TOP AND BOTTOM
T.&G.	TONGUE AND GROOVE
T.C.	TOP OF CURB
TEL.	TELEPHONE
TERR.	TERRAZZO
T.O.C.	TOP OF CONCRETE
T.O.PL.	TOP OF PLATE LINE
T.O.S.	TOP OF STEEL
T.O.SF.	TOP OF SUBFLOOR

T.P.	TOP OF PAVEMENT
TRANSV.	TRANSVERSE
TR.	TREATED
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED

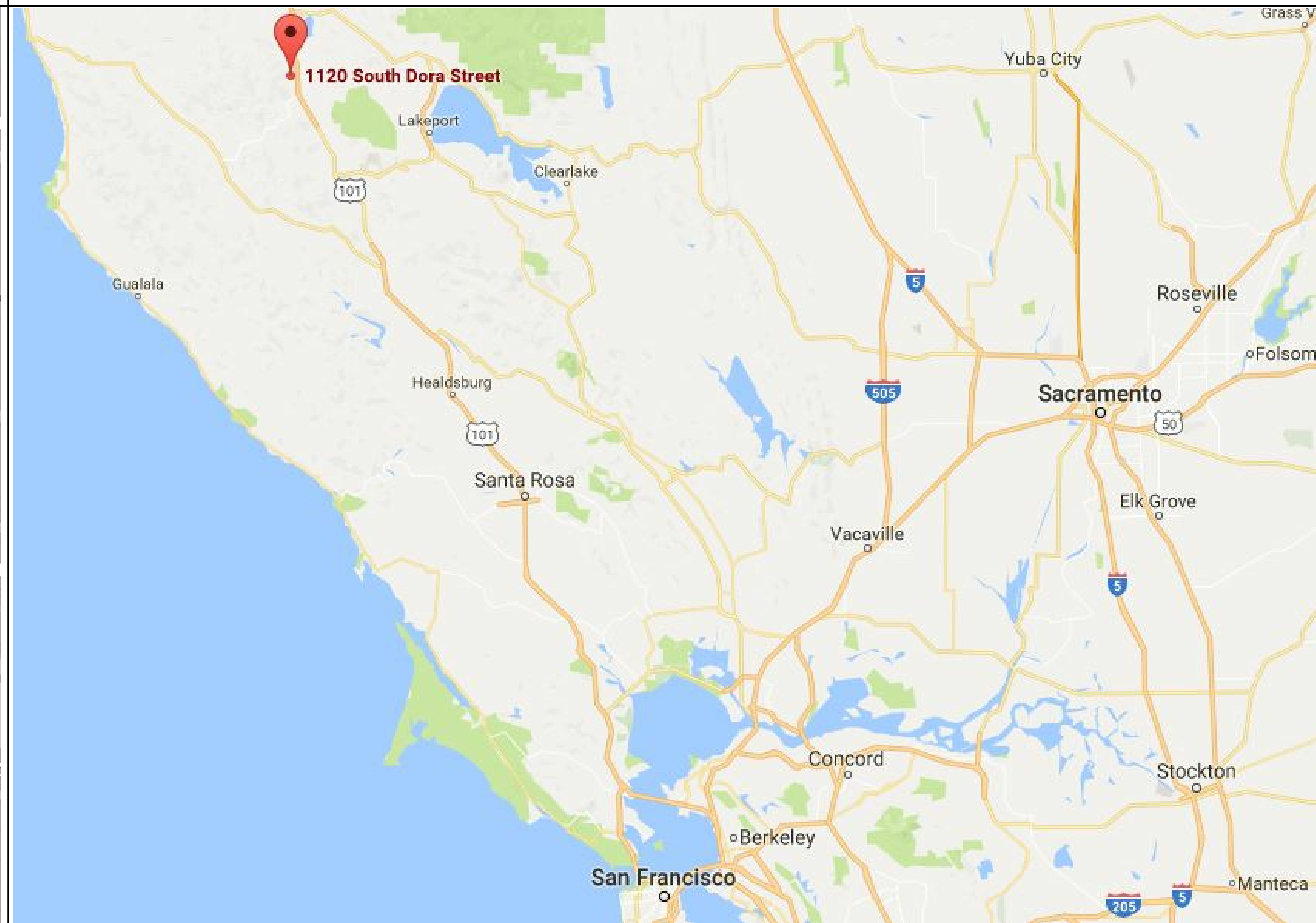
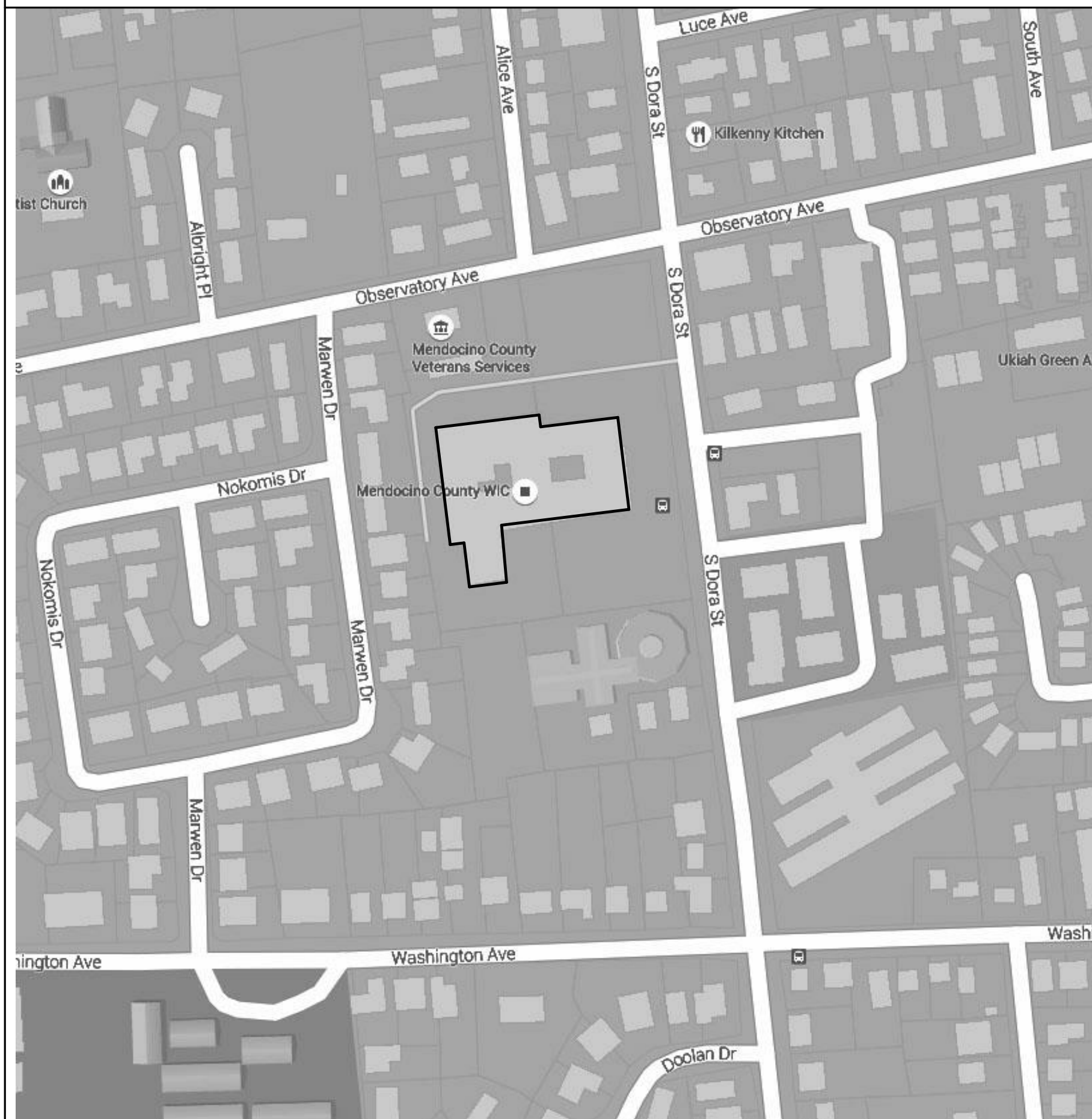
VERTICAL
VG. VERTICAL GRAIN

W/	WITH
W/C	WATER CLOSET
WD.	WOOD
W.O.	WHERE OCCURS
W/O	WITHOUT
WP.	WATERPROOF
WPF.	WEATHERPROOF
WRB	WEATHER RESISTANT BARRIER

A map of the San Francisco Peninsula. Sausalito is marked with a black dot and labeled '1120 S Doran St'. Other locations labeled include Healdsburg, Santa Rosa, Napa, Berkeley, San Francisco, San Jose, Mountain View, and Willow. Major highways shown are I-580, I-805, I-808, and I-880.



REGION MAP

[illegible]

BID SET

CONSULTANT:

INTERACTIVE
R E S O U R C E S

ARCHITECTURE ◊ PLANNING ◊ ENGINEERING

117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
(FAX) 232-5325
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PROJECT:

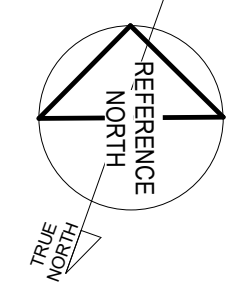
Mendocino County
Public Health Bldg.
South Wing HVAC
and Roof
Replacement
1120 South Dora St
Ukiah, California, 95482

SHEET TITLE:

COVERSHEET

PROJ. NO.	2013-084-24	
PREPARATION AND REVIEW		
DRAWN BY:	DP/BSF/SER	
DESIGNER:	BSF/EJA	
PROJ MGR:		
PEER REVIEW	BSF/EJA	
SHEET NUMBER:		

A000



A100



1

ROOF DEMOLITION PLAN

$$1/16'' = 1'-0''$$

1. **MPE scope:** see mechanical and electrical drawings for balance of data regarding existing equipment to be removed.
2. **Quantities:** quantities - where noted - are approximate; contractor to verify exact number in field.
3. **Roof assembly:** (E) SPF (spray polyurethane foam) over (E) modified bitumen roofing systems. remove roofing systems entirely - including wall and curb flashings - as required to fully expose substrate.

D1	Line of (E) building below shown dashed – typical, UON.
D2	Not Used.
D3	Remove existing roof drain.
D4	Remove HVAC screen. Remove support structure from roof deck.
D5	Remove (E) coping at perimeter curbs – typical.
D6	Remove (E) building expansion joint as required to accommodate new construction, retain for reinstallation.
D7	Remove (E) covered curb assembly, see 9/A501 for condition where roof penetration occurs next to curb bearing on (E) structural steel beam.

MECHANICAL

D10 Remove (E) rooftop units and curbs. See mechanical drawings for balance of data.

D11 (E) Mechanical unit to remain. See mechanical drawings for balance of data.

D12 (E) Exhaust fan to remain. See mechanical drawings for balance of data.

D13 Mechanical and electrical penetrations to remain, UON.
See mechanical and electrical drawings for balance of data. Typical.

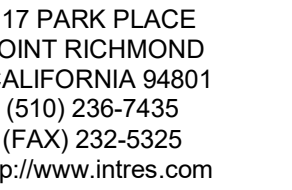
D14 Remove (E) wood pipe supports to accommodate reroofing and installation of new pipe supports.

100% DESIGN DEVELOPMENT SET	12-29-16
50% CONSTRUCTION DOCUMENTS SET	
ISSUED FOR PLAN CHECK	04-06-16
ISSUED FOR PERMIT	02-03-17
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	

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BID SET

10. *Journal of the American Medical Association*, 2000; 284: 1039-1044.



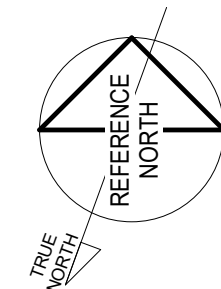
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Public Health Bldg.
South Wing HVAC
and Roof
Replacement

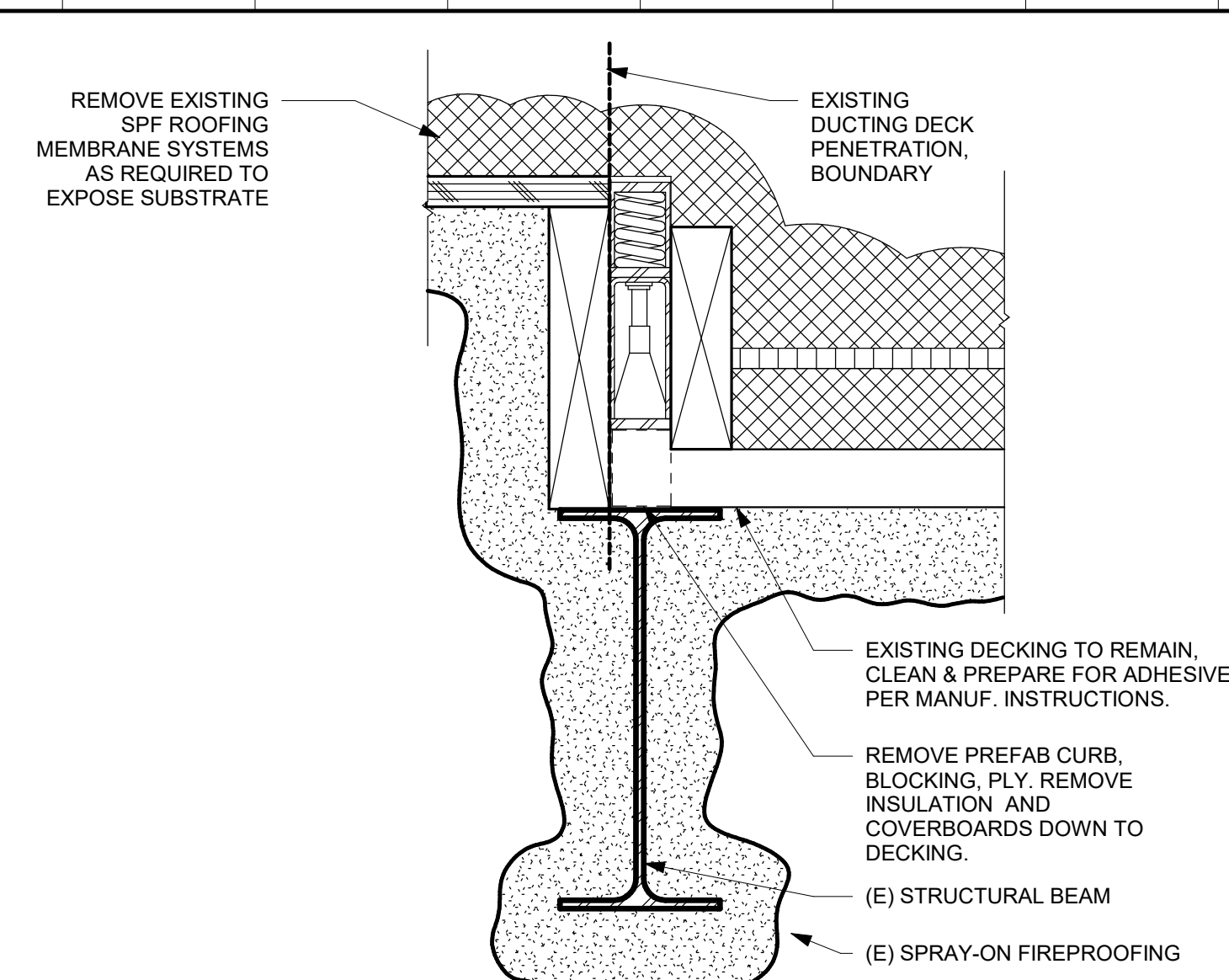
120 South Dora St
Ukiah, California,
95482

ROOF DEMOLITION PLAN

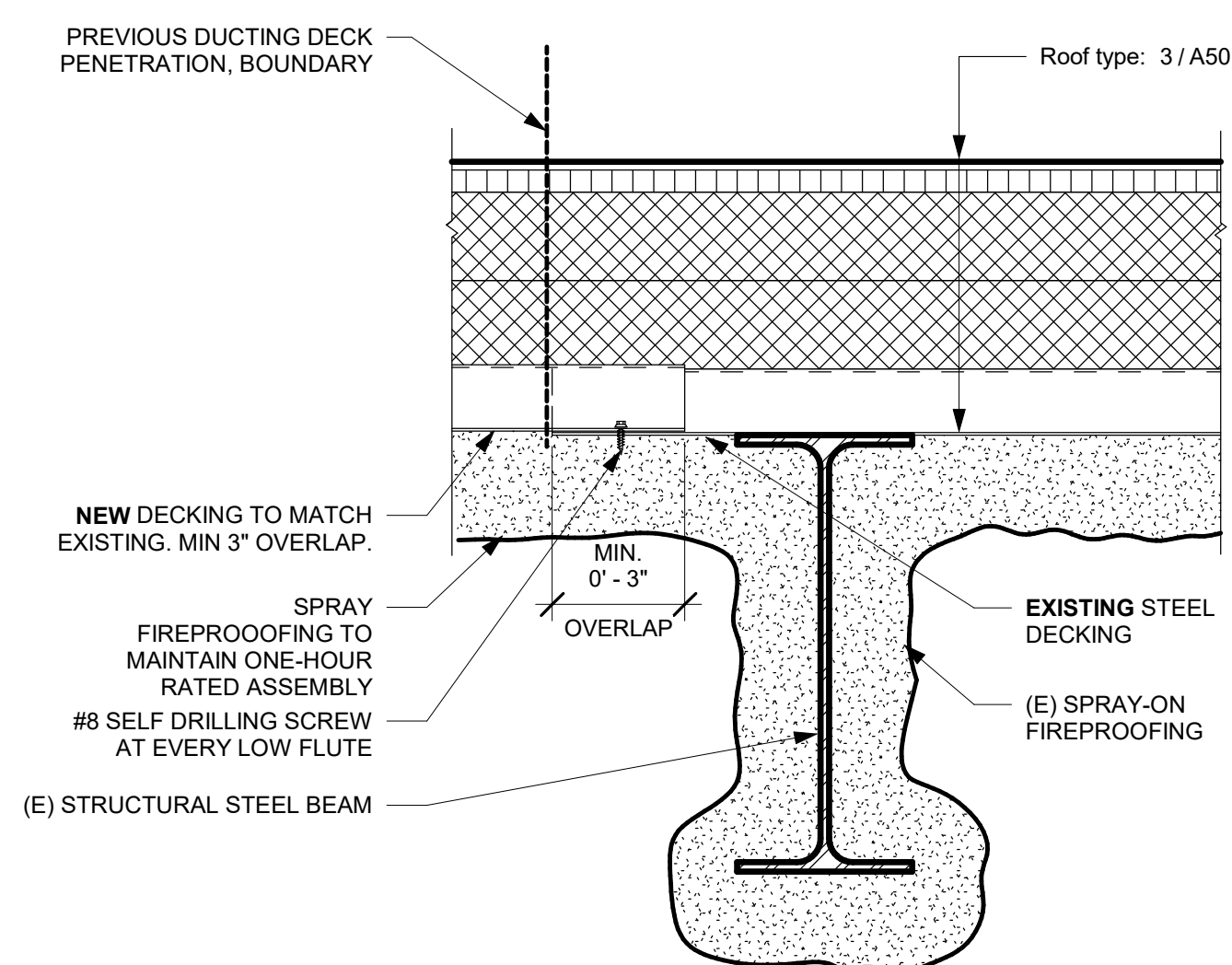
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PREPARATION AND REVIEW		
DRAWN BY:	DP/BSF	
DESIGNER:	BSF/EJA	
PROJ MGR:		
PEER REVIEW	BSF/EJA	
SHEET NUMBER:		

A101

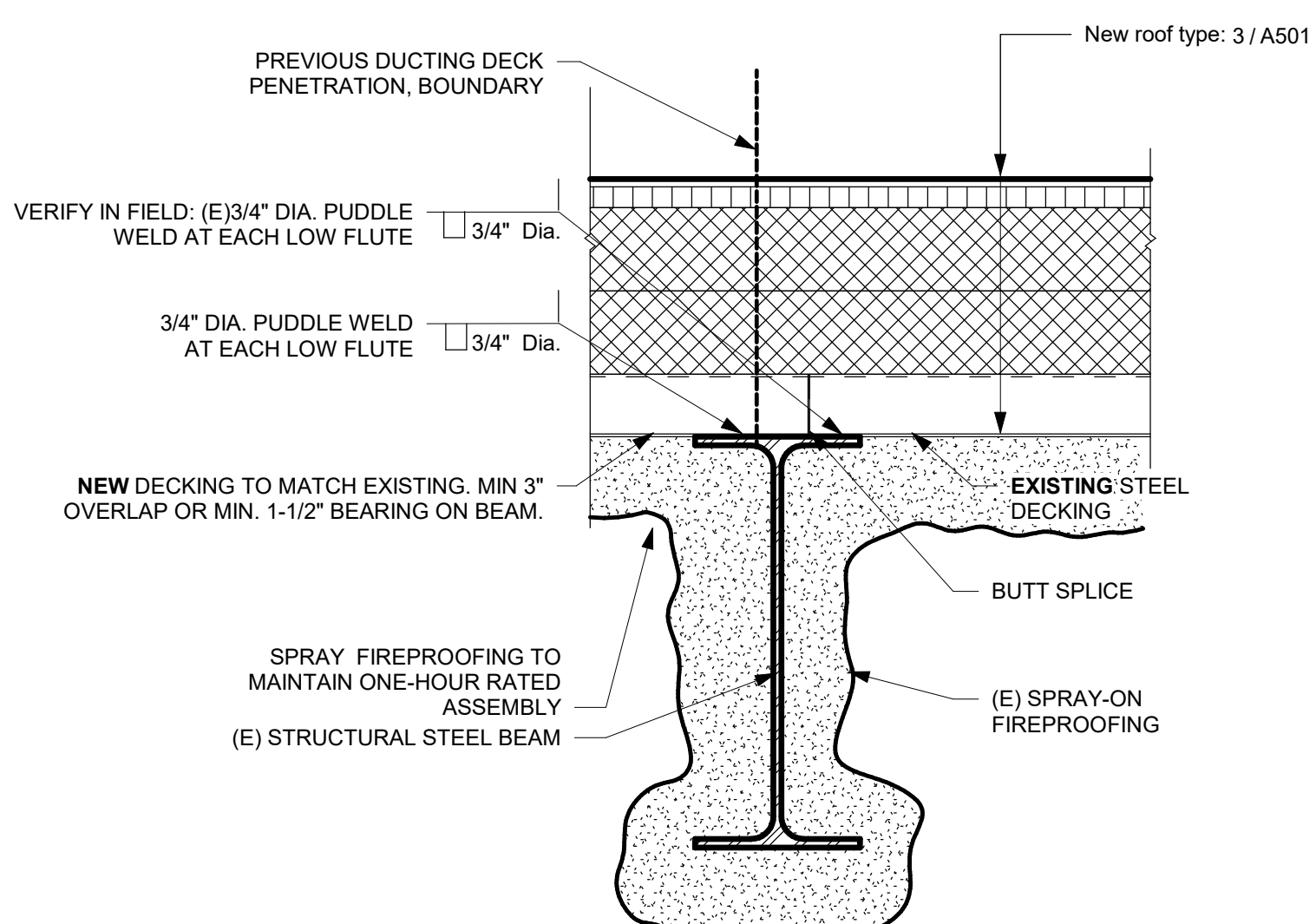




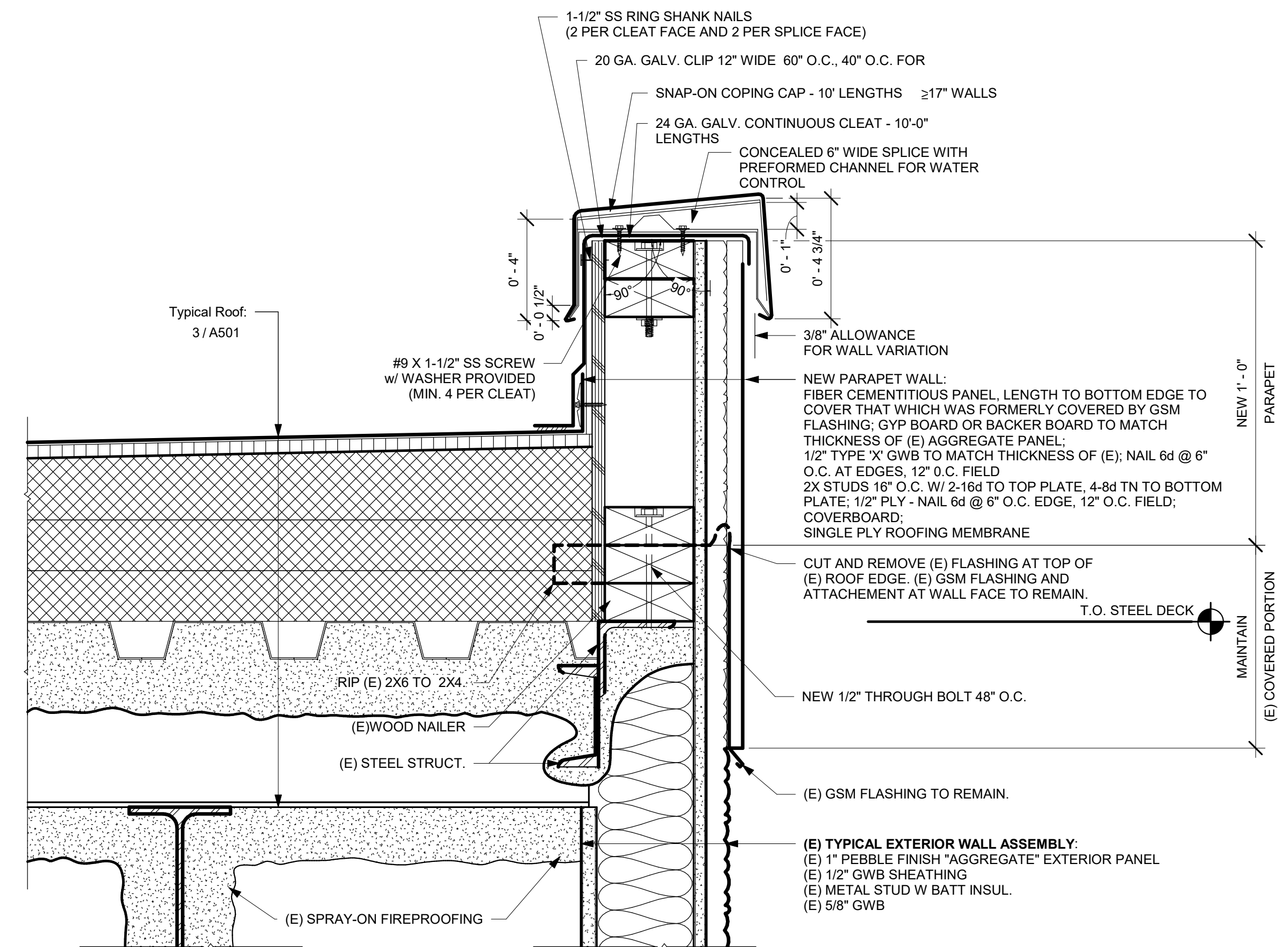
9 DEMOLITION OF EXISTING CURB
3" = 1'-0"



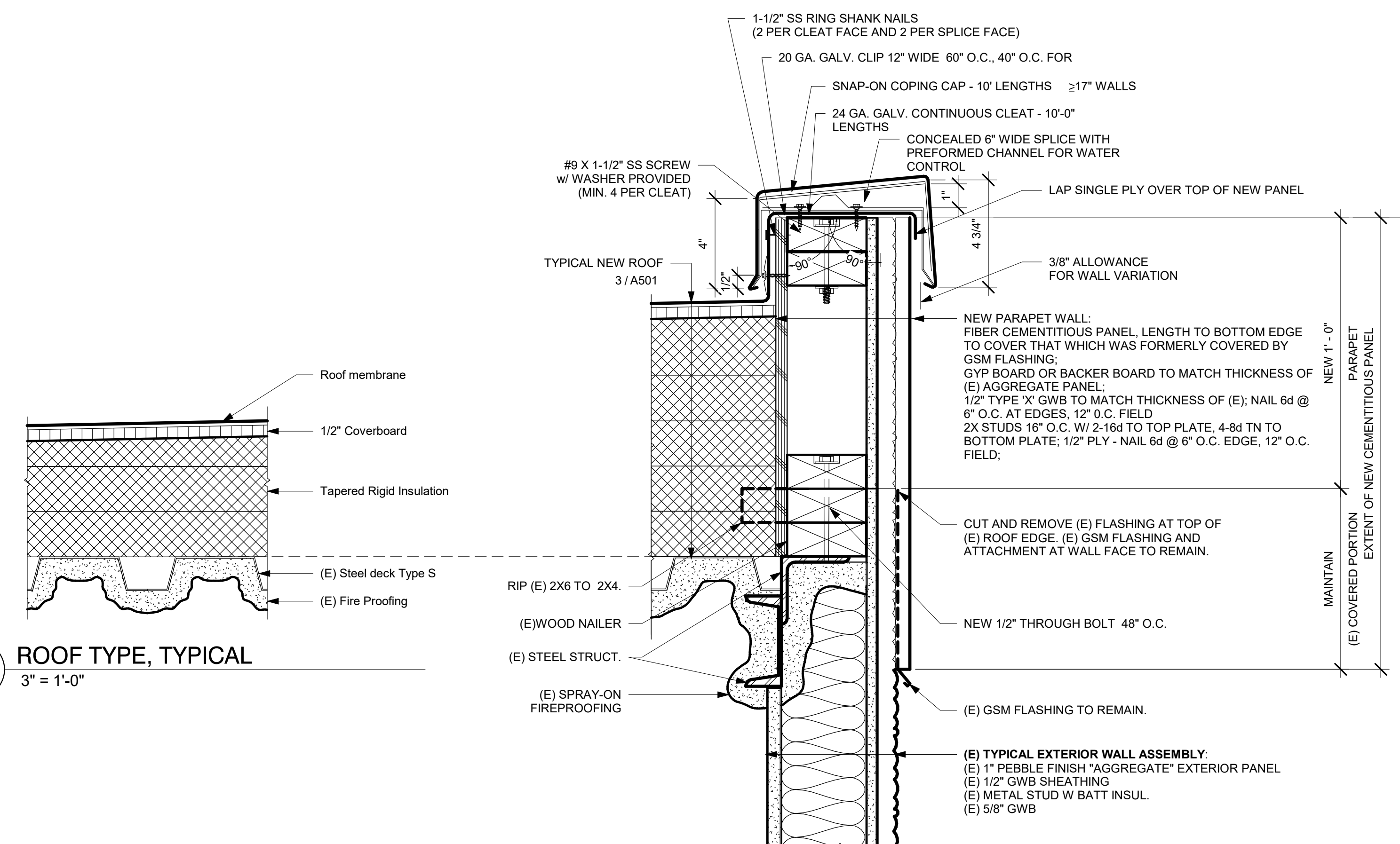
10 INFILL OF (E) ROOF PENETRATION
3" = 1'-0"



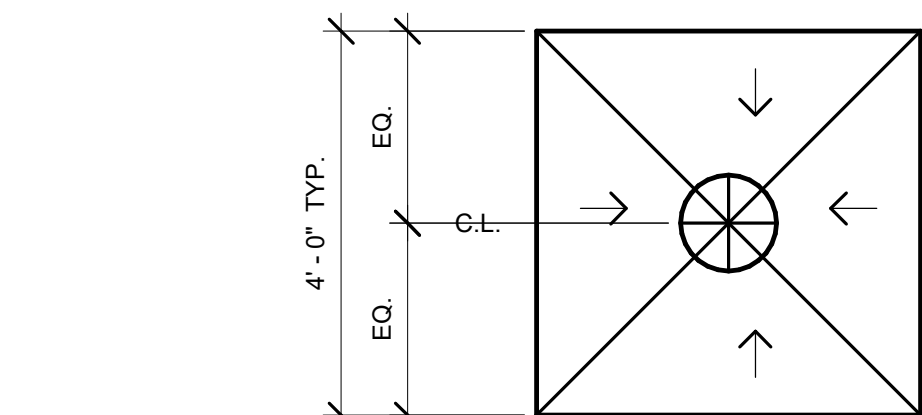
11 INFILL OF (E) ROOF PENETRATION @ REMOVED CURB
3" = 1'-0"



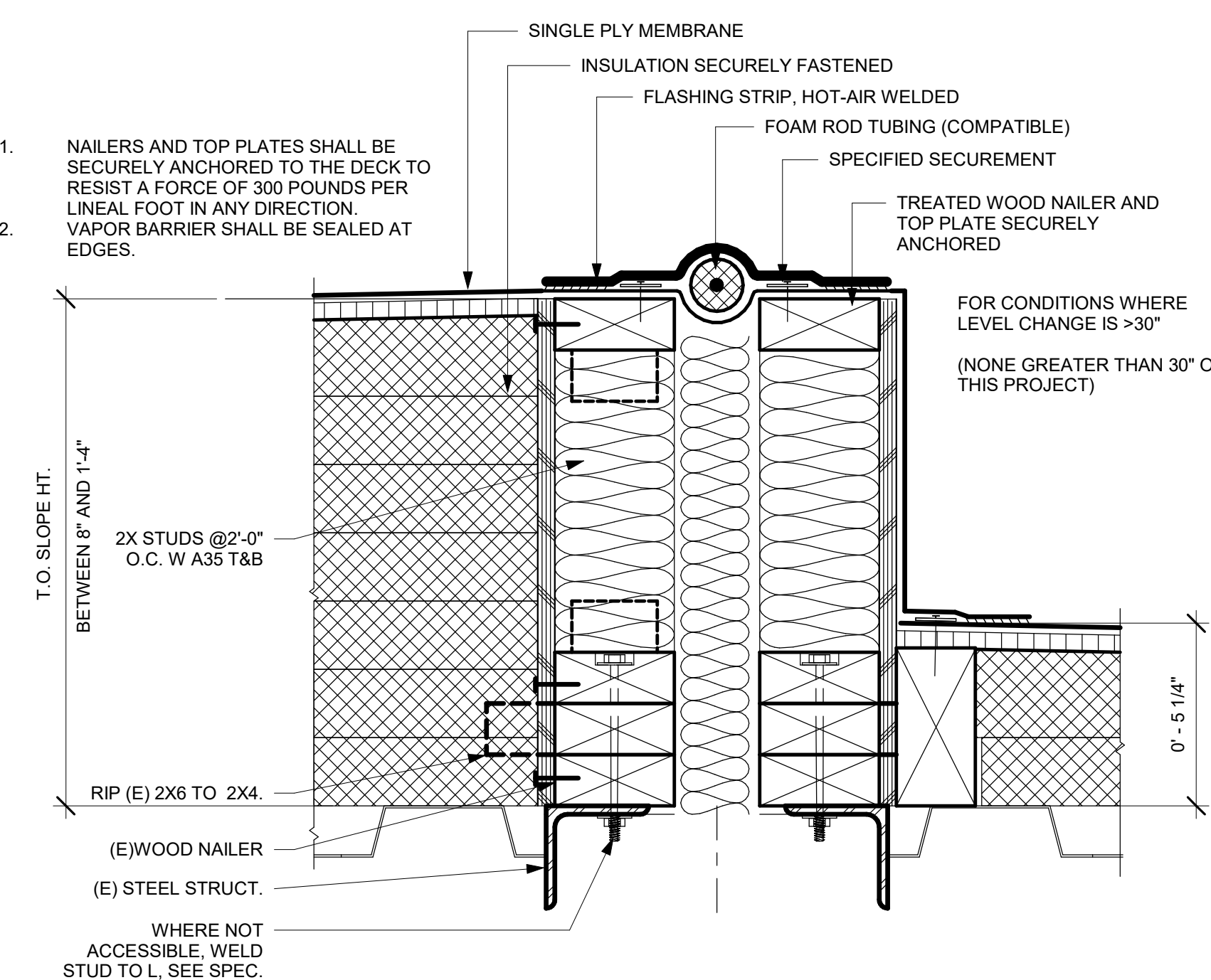
1 FASCIA AND PARAPET 1
3" = 1'-0"



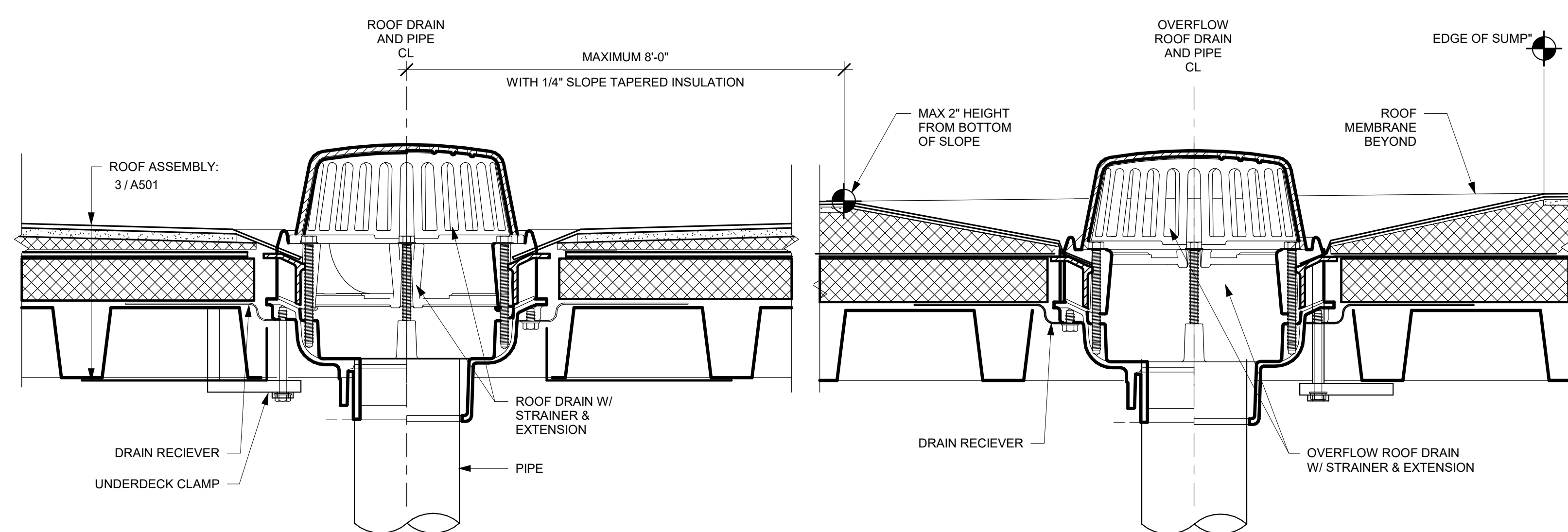
3 ROOF TYPE, TYPICAL
3" = 1'-0"



14 SCHEMATIC SINGLE SUMP PLAN
1/2" = 1'-0"



15 EXPANSION JOINT WITH TAPERED INSULATION



16 ROOF DRAIN SUMP W OFFSET OVERFLOW
3" = 1'-0"

REV	DESCRIPTION	INIT	DATE

100% DESIGN DEVELOPMENT SET	12-29-16
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ISSUED FOR PERMIT	02-03-17
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	
SEAL:	

BID SET

CONSULTANT:

INTERACTIVE

RESOURCES

ARCHITECTURE • PLANNING • ENGINEERING

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PROJECT:

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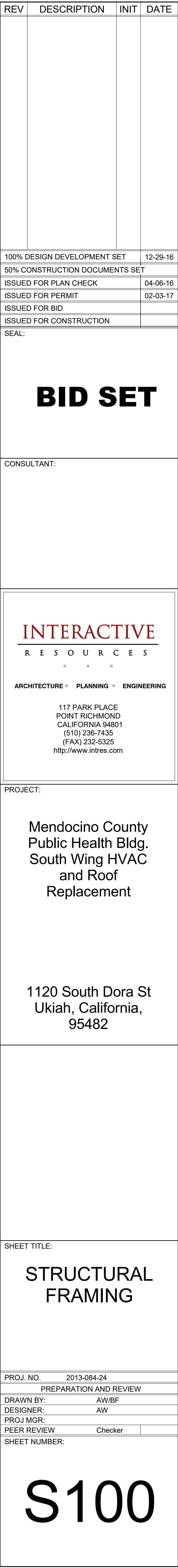
1120 South Dora St
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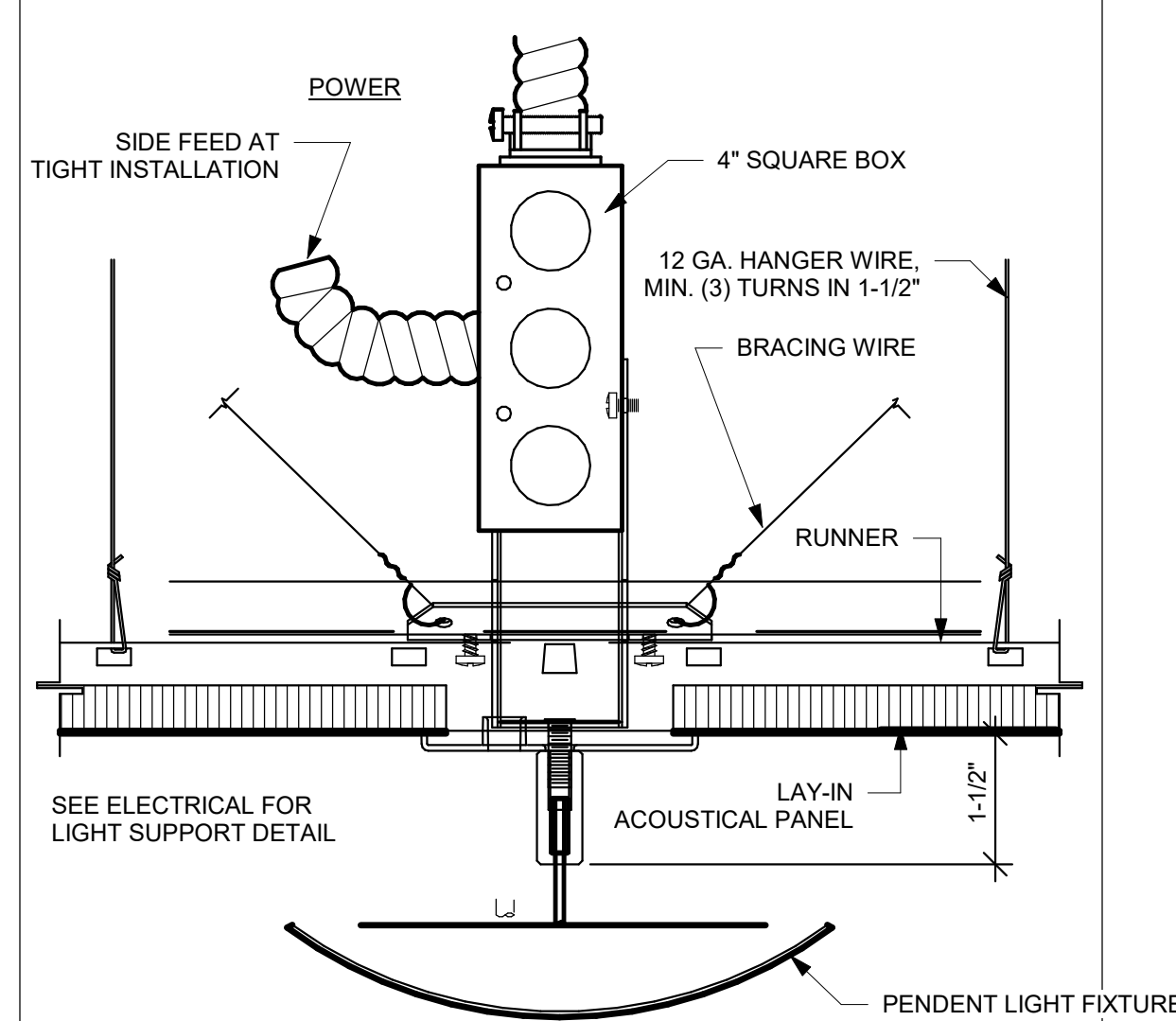
SHEET TITLE:

DETAILS - ROOF

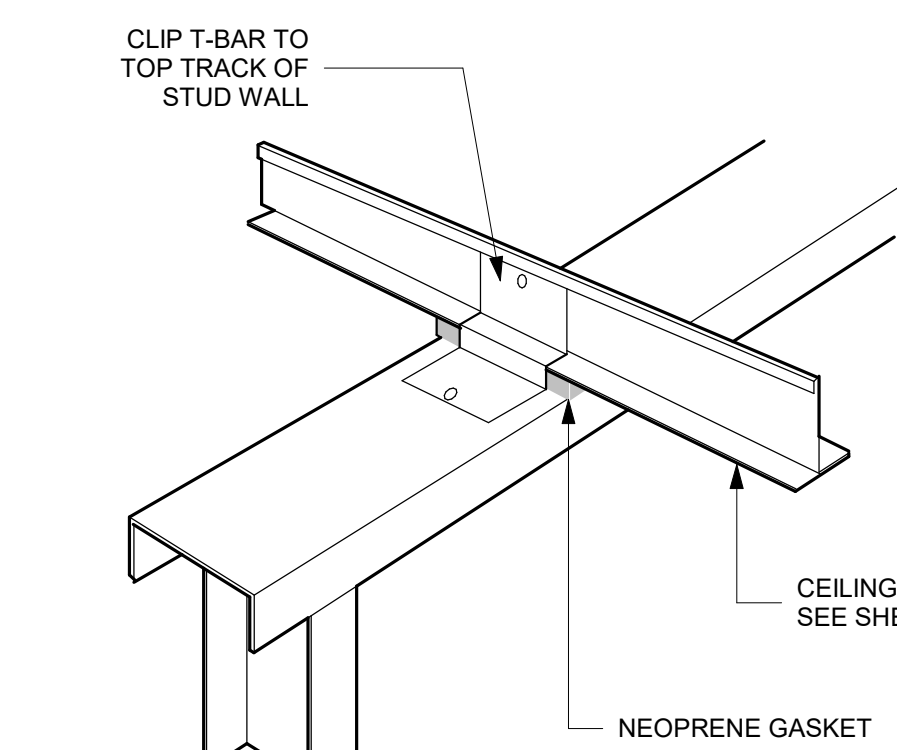
PROJ. NO. 2013-084-24	
PREPARATION AND REVIEW	
DRAWN BY:	DP/BSF/SER
DESIGNER:	BSF/EJA
PROJ MGR:	
PEER REVIEW	BSF/EJA
SHEET NUMBER:	

A501

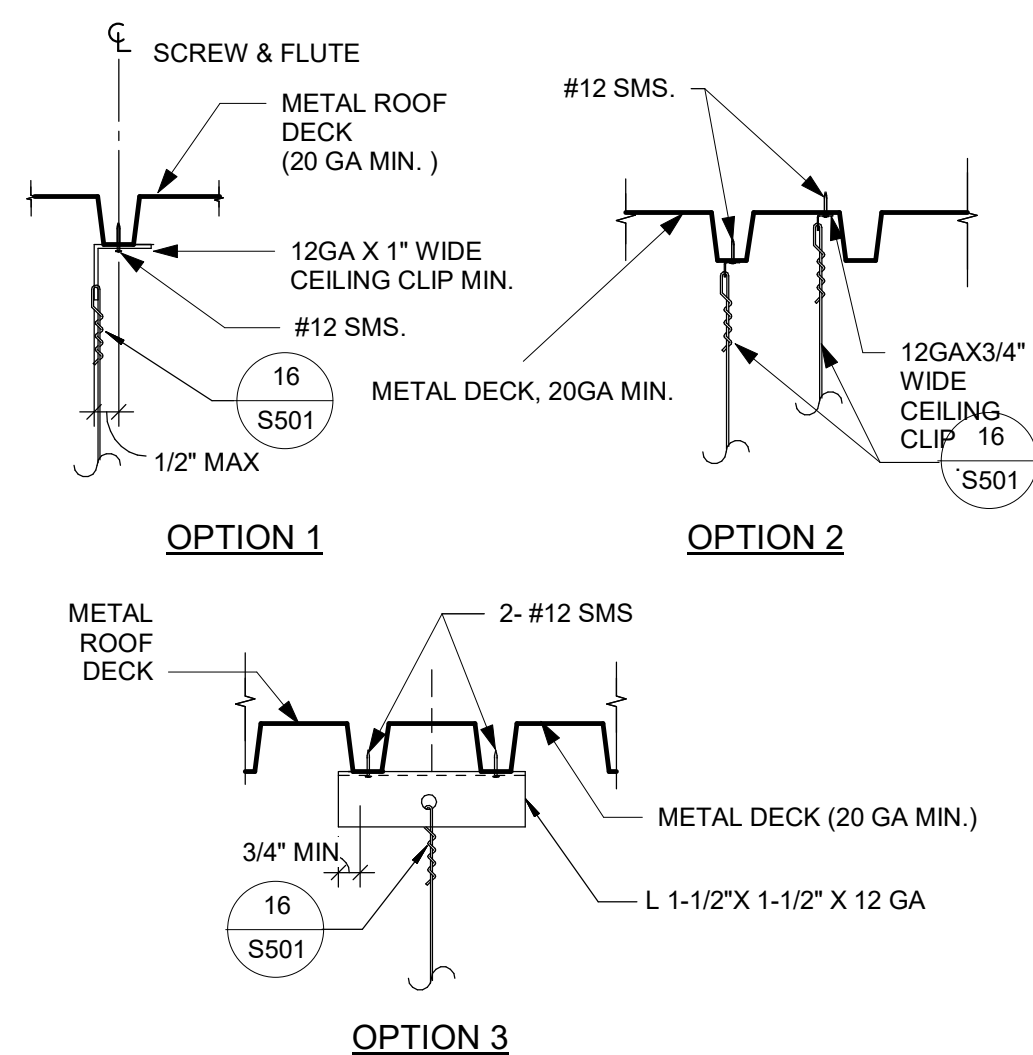




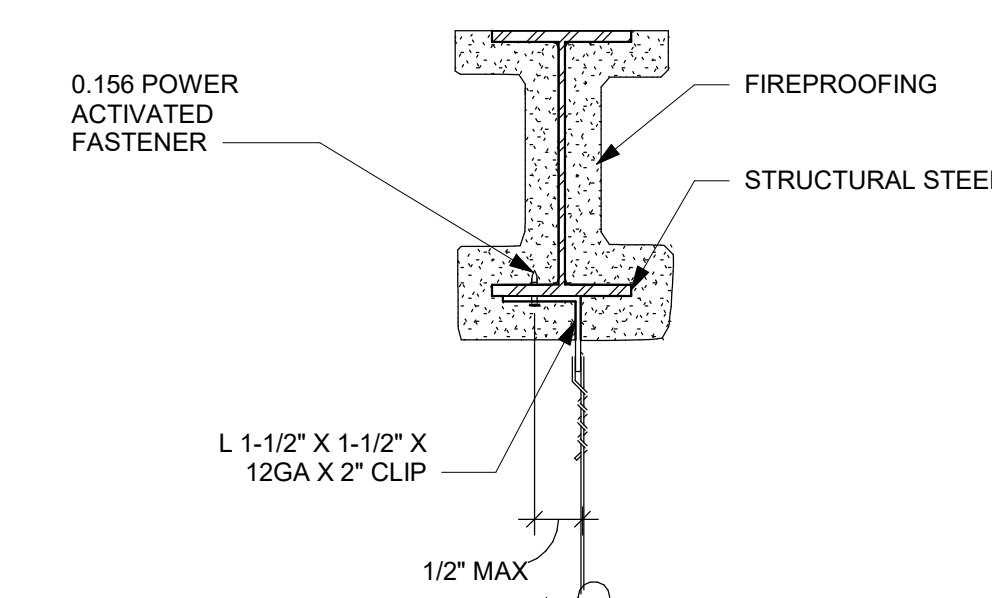
13 CLNG-PENDENT LIGHT SUPPORT
3" = 1'-0"



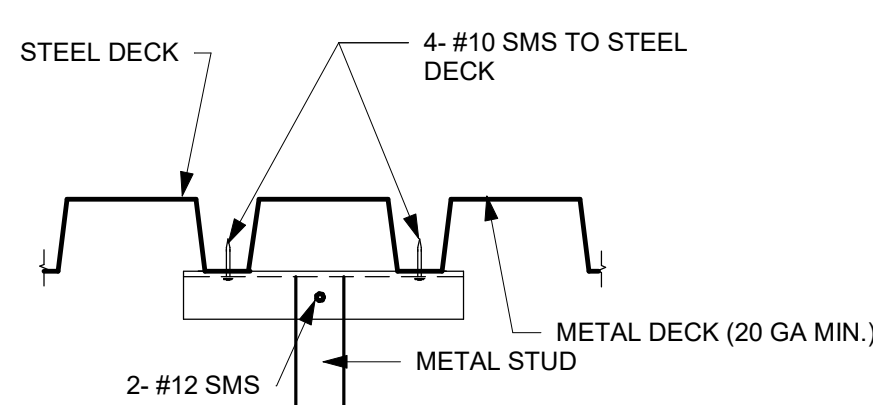
9 CLG-ACOUSTICAL PANEL CEILING AT INTERIOR WALL
6" = 1'-0"



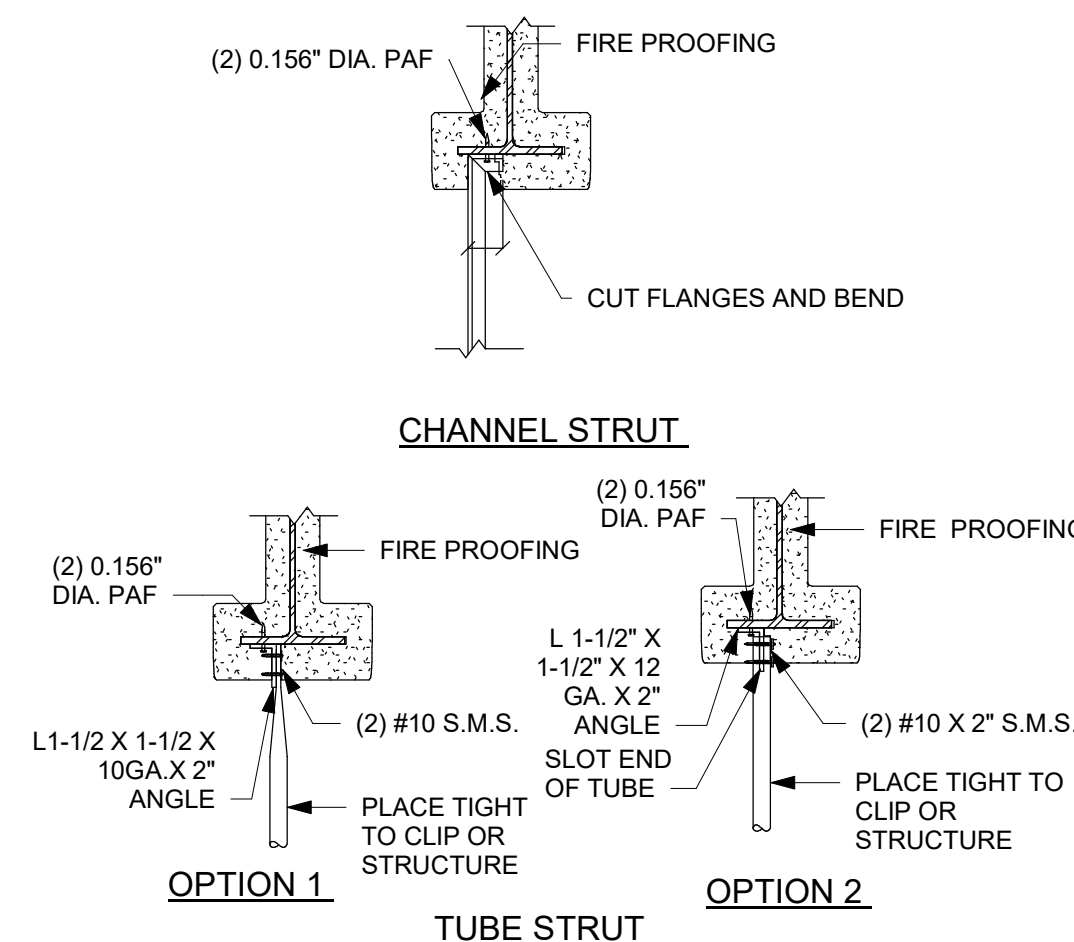
14 HANGER WIRE CONNECTION TO METAL DECK
NTS



10 HANGER WIRE CONNECTION TO STRUCTURAL STEEL
NTS

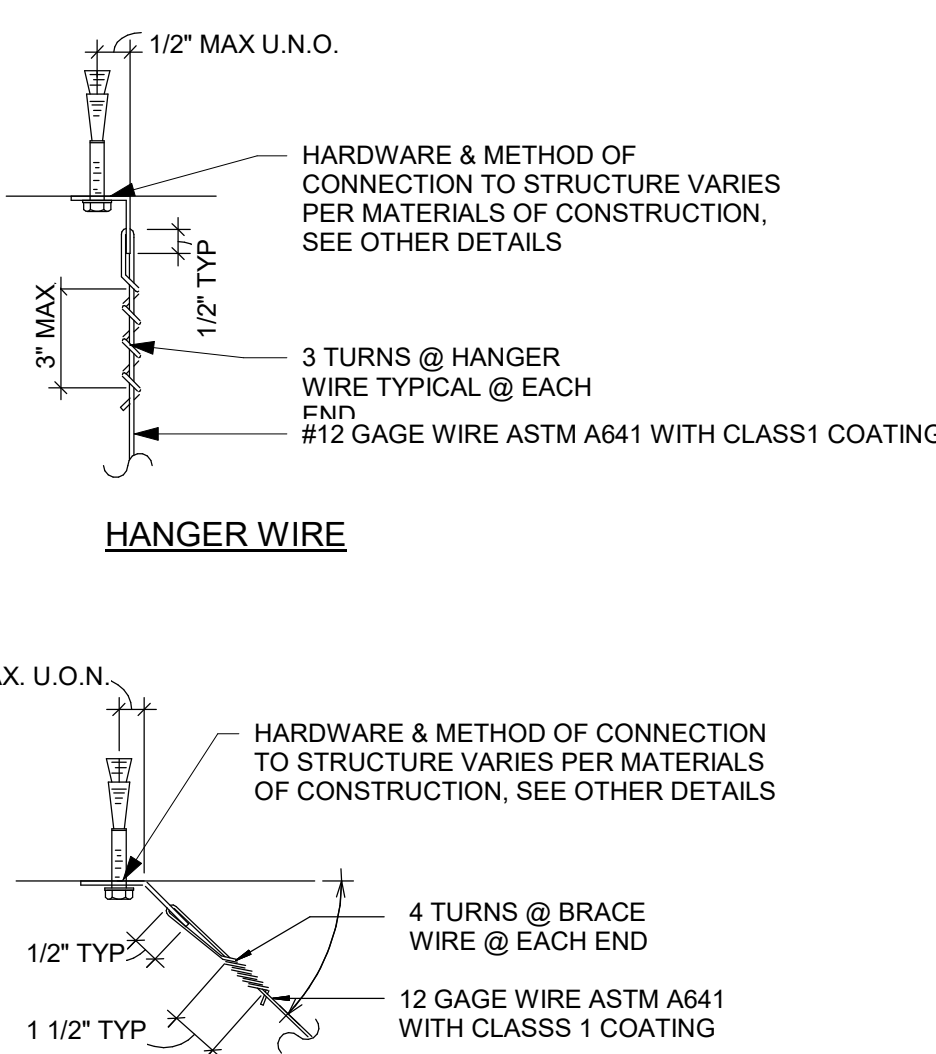


15 CHANNEL TYPE STRUT TO STRUCTURE
NTS

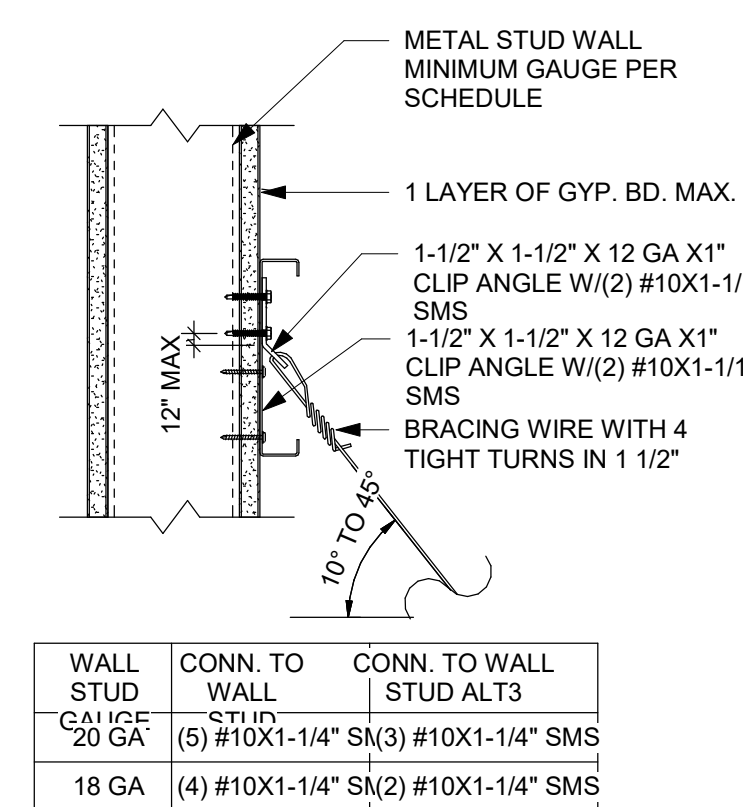


MEMBER, SEE AISC/AASD 341-10.

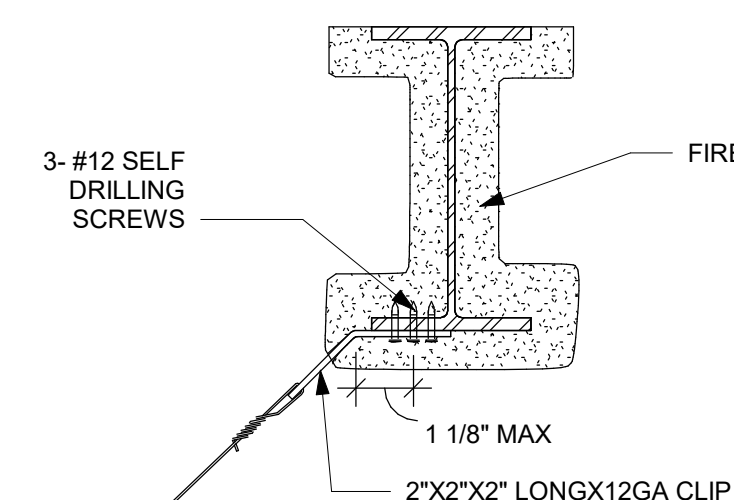
11 STRUT CONNECTION TO STRUCTURAL STEEL
NTS



16 TURNS
NTS



12 BRACING WIRE CONNECTION TO METAL STUD WALL
NTS



8 BRACING WIRE CONNECTION TO STRUCTURAL STEEL BEAM
NTS

1. Construction, workmanship and material shall conform to the 2013 California building standards code (CBCS 2013).
2. The contractor shall notify the architect in responsible control where a conflict or discrepancy occurs between the construction drawings and any other portion of the construction documents, field conditions, or where any conditions arise not covered by these documents wherein work will not comply with code requirements. Depending on existing conditions and materials of construction, some details on this page may not apply.
3. The intent of the design and specifications is to construct the building in accordance with the California building standard code, 2013 (CBCS). Should any condition develop not covered by the approved construction documents wherein the work will not comply with CBCS 2013, a change order detailing and specifying the required work shall be submitted to and approved by building official before proceeding with the work.
4. Galvanized metal studs, tracks and sheet steel shall conform to ASTM A653-11 material or other equivalent ASTM listed materials in section A2.1 of the AISI S1007/2-10; north American specification for the design of cold-formed steel structural members with supplement 2, dated 2010, with a minimum yield strength of 33 KSI for 43 ksi (18 gage) and lighter and minimum yield strength of 50 KSI for heavier gages. Metal studs and tracks shall be of size, thickness and section properties shown on tables 1-1, 1-2 and 1-3 of the AISI manual, cold-formed steel design, 2008 edition. The architect in responsible charge shall obtain building official approval for any substitutions.
5. Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with g90 galvanizing. EMT shall have minimum yield strength of (Fy)= 30 ksi and minimum ultimate strength of (Fu)= 48 ksi.
6. These details refer to fastener type and size but do not specify or endorse a specific manufacturer.
 - A. Sheet metal screws shall comply with ASTM C 1513-10, ASME B18.6.4-98 (r2005) and ICC-ES ac 118 and allowable strength shall be based on information provided in d1.31 and d1.32. Penetration of screws through jointed material shall not be less than that exposed there.
 - B. Welding shall be in accordance with AWS D1.3 using e60xx series electrodes. Field welding shall have special inspection in accordance with 2013 CBCS section 1705.2.
 - C. Post-installed anchors (e.g. expansion anchors, screw anchors and power actuated fasteners) shall have special inspection and testing in accordance with the 2013 CBCS sections 1705.3 & 1913.7. For qualification, design and use of post-installed anchors in concrete see the 2013 CBCS sections 1616.1.19 and 1908.1.1. Listing of current ICC-ES evaluation reports (or reports from other testing agencies acceptable to building official) shall be required for fastener used.
 - D. Power-actuated fasteners (PAF), power driven pins (PDP) and shot pins all represent the same fastener and will hereafter be referred to as power actuated fasteners (PAF). PAF shall satisfy the current ac70-acceptance criteria for fasteners power-driven into concrete, steel and masonry elements and the 2013 CBCS section 1908.1.1. Listing of current ICC-ES evaluation reports (or reports from other testing agencies acceptable to building official shall be required for fasteners used. Powder actuated fasteners shall be used for resisting loads seismic loads.
 - E. For PAF installed in steel the fastener penetration shall have the entire pointed end of the fastener driven through the steel member, except as noted in current reports from testing agencies acceptable to building official.
7. Design criteria:
 - A. Building code: 2013 California building code (2013 CBC), ASCE 7-10, AISI S100-07/2-10, ASTM E580-14, C635-13A, and C636-13. For load combinations, allowable stress design shall be in accordance with 2013 CBC section 1605.3.1.
 - B. Fastener capacities tables were developed based on ICC reports by several manufacturers
 - C. The design assumes that building elements and supports, to which the components addressed in this document are anchored, have sufficient capacity to carry the loads imposed by the components in combination with all other loads. Evaluation of the capacity of these supporting building elements is beyond the scope of the details.
 - D. These details are limited to ceiling assemblies having maximum dead weight of 1 psf, including lighting fixtures (luminaries) and mechanical services, each weighing less than 56 lbs, and attached to ceiling framing system. Heavier system and those supporting lateral forces from partition walls are outside the scope of this ceiling system and will require project specific design.
8. "Ceiling wire" shall conform with galvanized soft annealed mild steel wire as defined in ASTM a641 (class 1 coating) with 70 ksi minimum tensile strength.
 - A. Four (4) twists of wire within 1.5" develops the allowable load for the wire.
 - B. Three (3) twists within 3" may be used to develop the maximum 50% of allowable load.
9. Expansion joints, seismic separations, and penetrations:
 - A. Expansion joints shall be provided in the ceiling at intersections of corridors and at junctions of corridors with lobbies or other similar areas.
 - B. For ceiling areas exceeding 2500 square feet, a seismic separation joint shall be provided to divide the ceiling into areas not exceeding 2500 sq. ft.
 - C. Penetration through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tie to allow free movement of one (1) inch in all horizontal directions. A flexible sprinkler hose fitting that can accommodate one (1) inch of ceiling movement shall be permitted to be used in lieu of the oversized ring, sleeve or adapter. Such flexible sprinkler hose shall be adequately supported from soffits so as not to exceed the maximum tributary weight of the ceiling.
10. Lateral force bracing:
 - A. Lateral force bracing is required in accordance with this section for all ceiling areas, UON.
 - B. Seismic loads are based on site specific seismic coefficient, SDS. The seismic coefficient ranks from 0.0 to 2.50.
 - C. For this project, the seismic coefficient is SDS= ~~XXXX~~ or see general structure notes, seismic loading.
 - D. Exception: lateral force bracing may be omitted for suspended acoustical ceiling systems with a ceiling area of 144 sq. Ft. Or less, when perimeter support in accordance with ASTM E580 are provided and perimeter walls are designed to carry the ceiling lateral forces.
 - E. Provide lateral-force bracing assemblies consisting of a strut and four (4) #12 gage bracing wires oriented 90 degrees from each other.
 - F. Lateral-force bracing assemblies shall be spaced in accordance with C12.20 through C12.22 and C12.30 from each wall and at the edges of any change of elevation of the ceiling.
 - G. The slope of bracing wires may be from 10 to 45 degrees but may not exceed 45 degrees from the plane of the ceiling and wires shall be taut.
 - H. Struts shall be adequate to resist the vertical component induced by the bracing wires, and shall not be more than 1 (horizontal) in 6 (vertical) out of plumb.
11. Attachment of hanger and bracing wires:
 - A. Fasten #12 hanger wires with not less than three (3) tight turns in 3 inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops.
 - B. Fasten #12 bracing wires with four (4) tight turns. Make all tight turns within a distance of 1 1/2" inches.
 - C. Hanger or bracing wire attached to the structure should be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.
 - D. Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduits, etc.
 - E. Hanger wires shall not be attached to or bend around interfering material or equipment. Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits, or discontinuous areas.
 - F. Hanger wires that are more than one (1) horizontal) in 6 (vertical) out of plumb shall require project specific design.
 - G. When drilled-in concrete anchors or PAFs are used in reinforced concrete for hanger wires, 1 out of 10 wire/anchor assemblies shall be field tested for 200 lbs in tension. When drilled-in concrete anchors and PAFs are used for bracing wires, 1 out of 2 wire/anchor assemblies shall be field tested for 440 lbs. In tension in the direction of the wire. PAF in concrete are not permitted for bracing wires.

REV	DESCRIPTION	INIT	DATE

100% DESIGN DEVELOPMENT SET	12-29-16
50% CONSTRUCTION DOCUMENTS SET	
ISSUED FOR PLAN CHECK	04-06-16
ISSUED FOR PERMIT	02-03-17
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	

SEAL:

BID SET

CONSULTANT:

INTERACTIVE
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PROJECT:

Mendocino County
Public Health Bldg.
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and Roof
Replacement

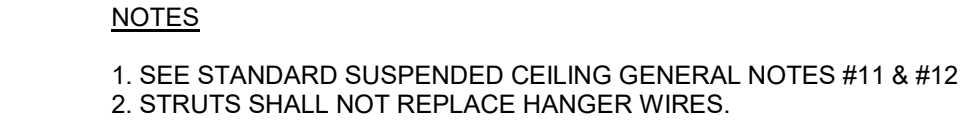
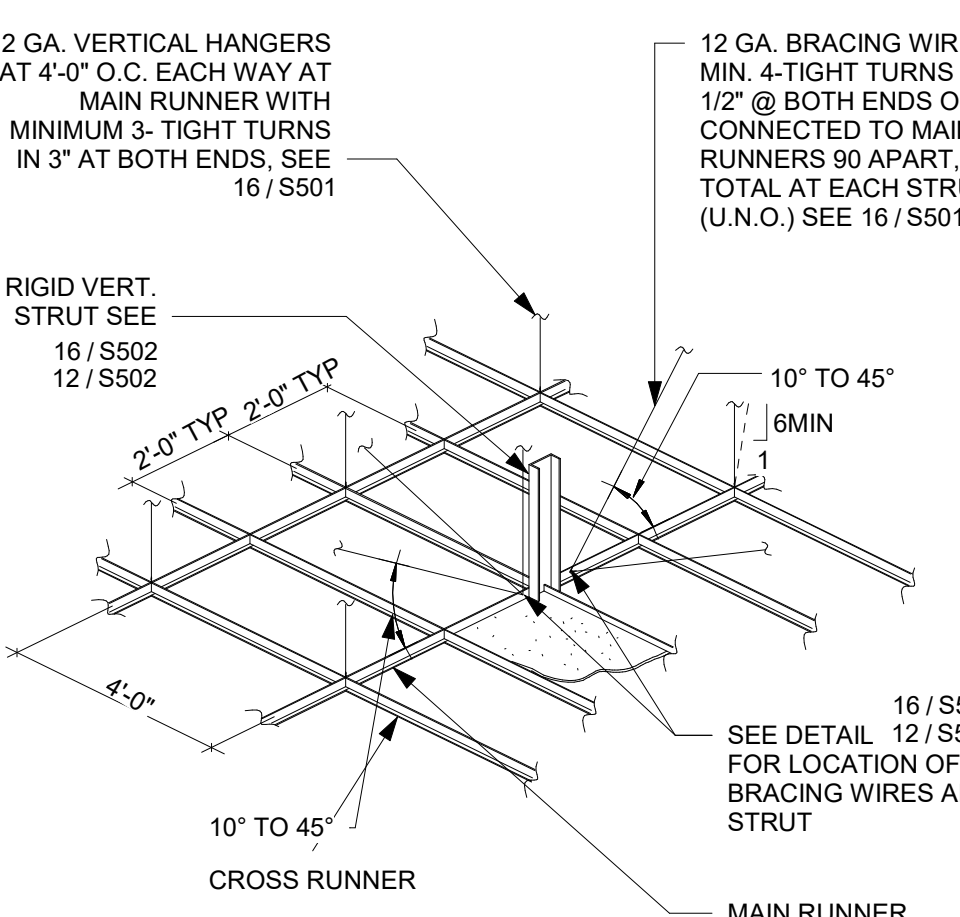
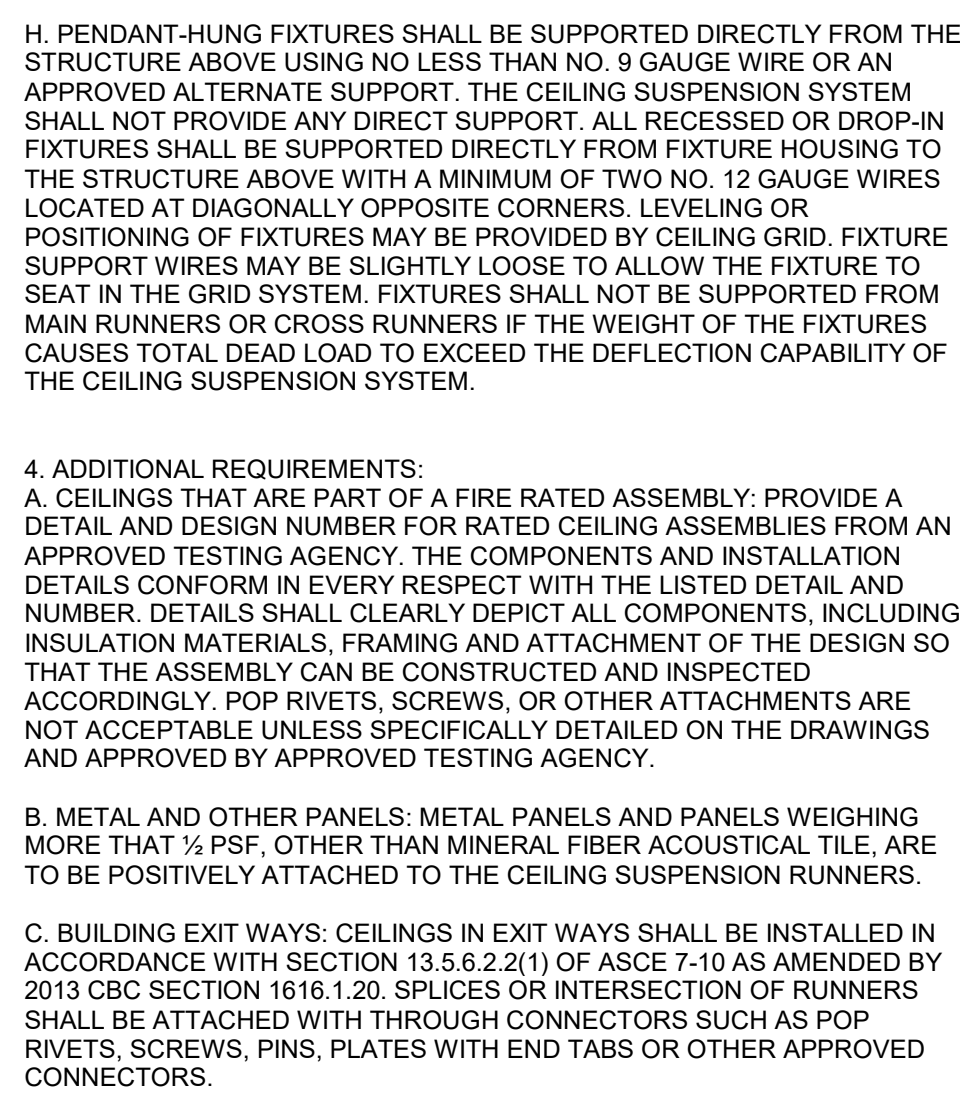
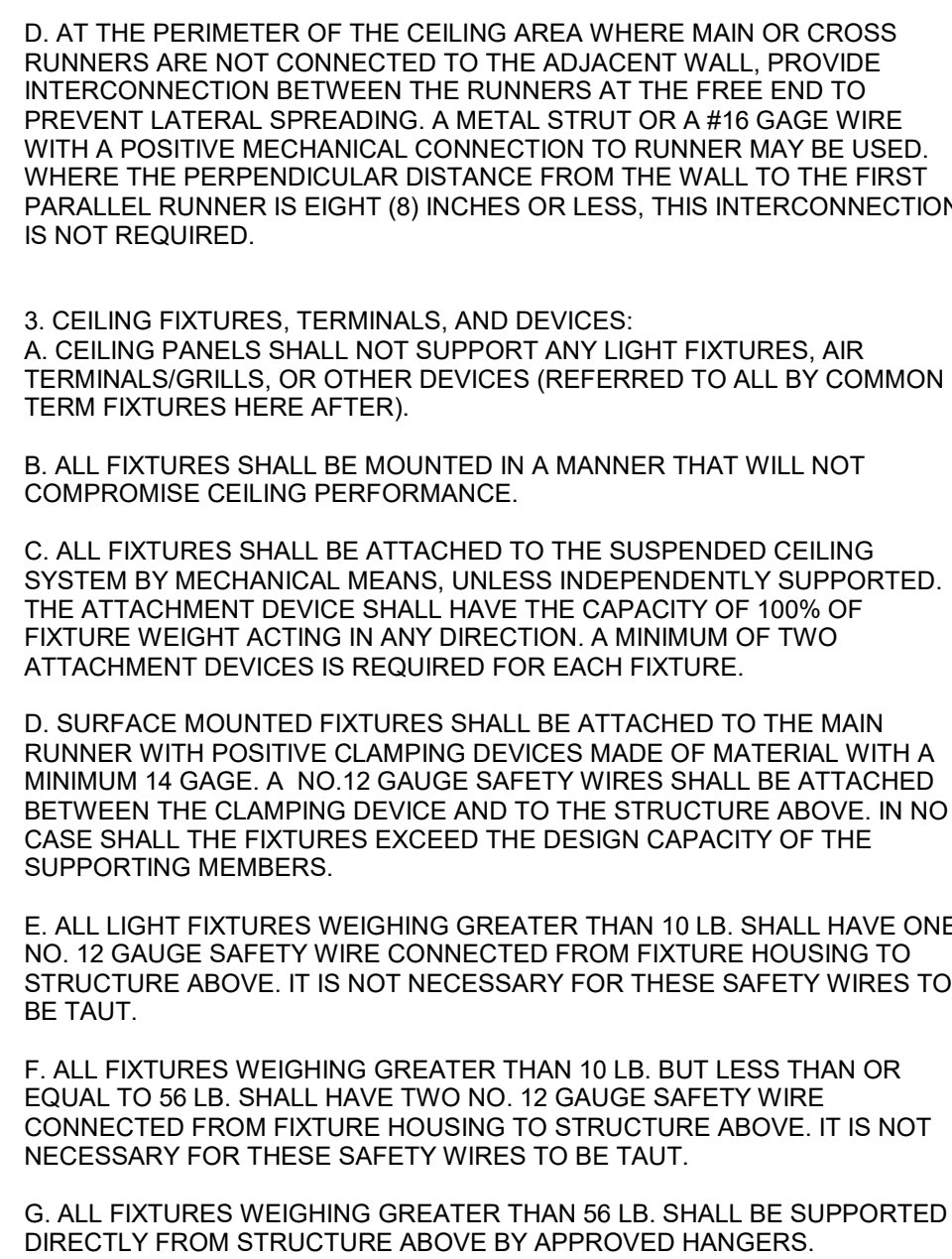
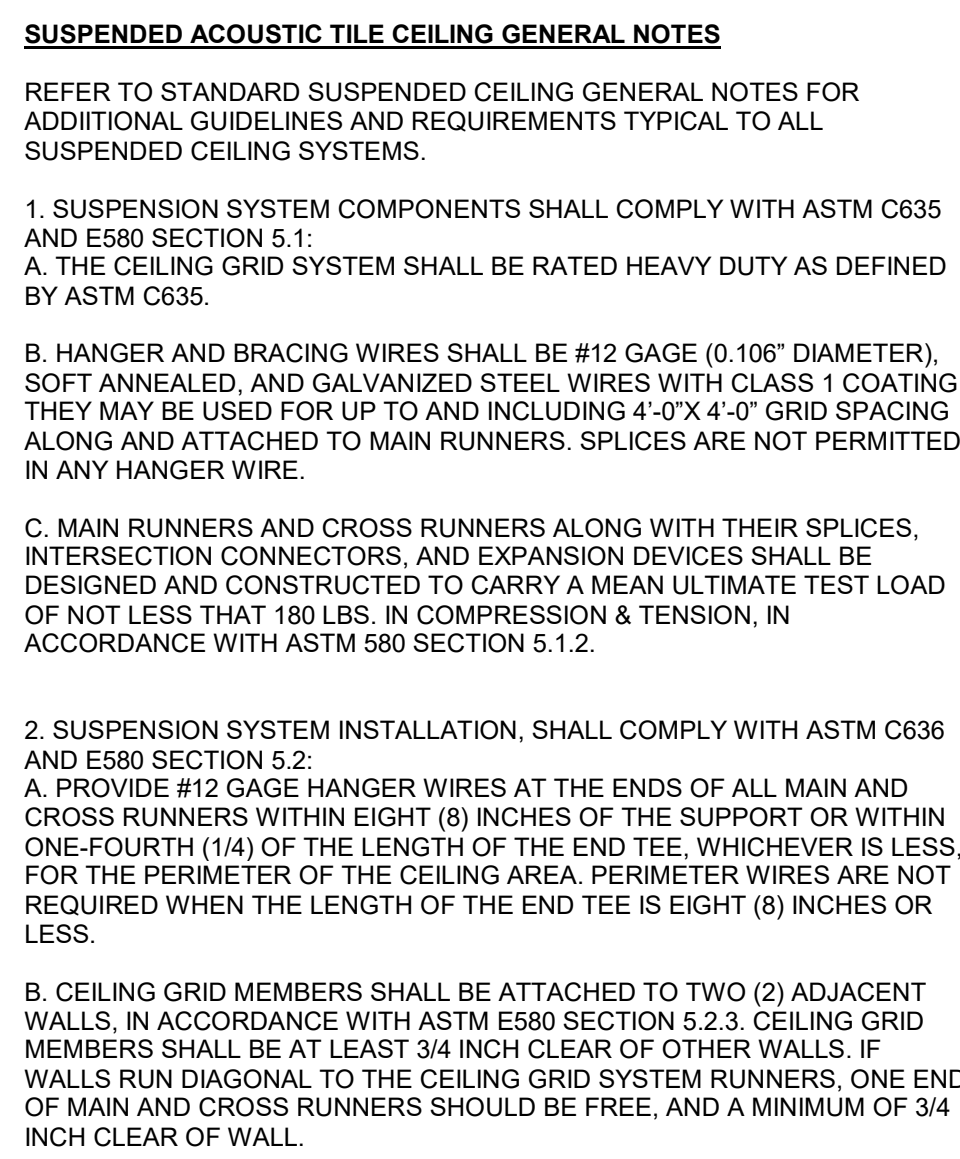
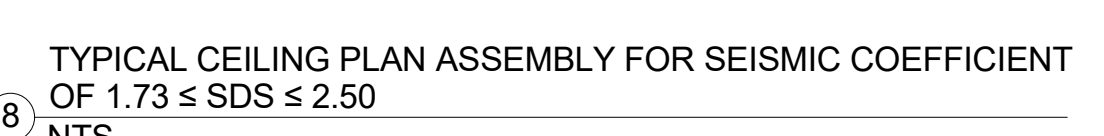
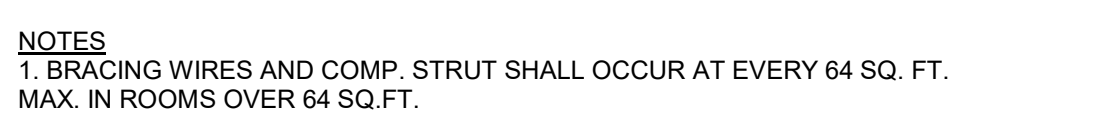
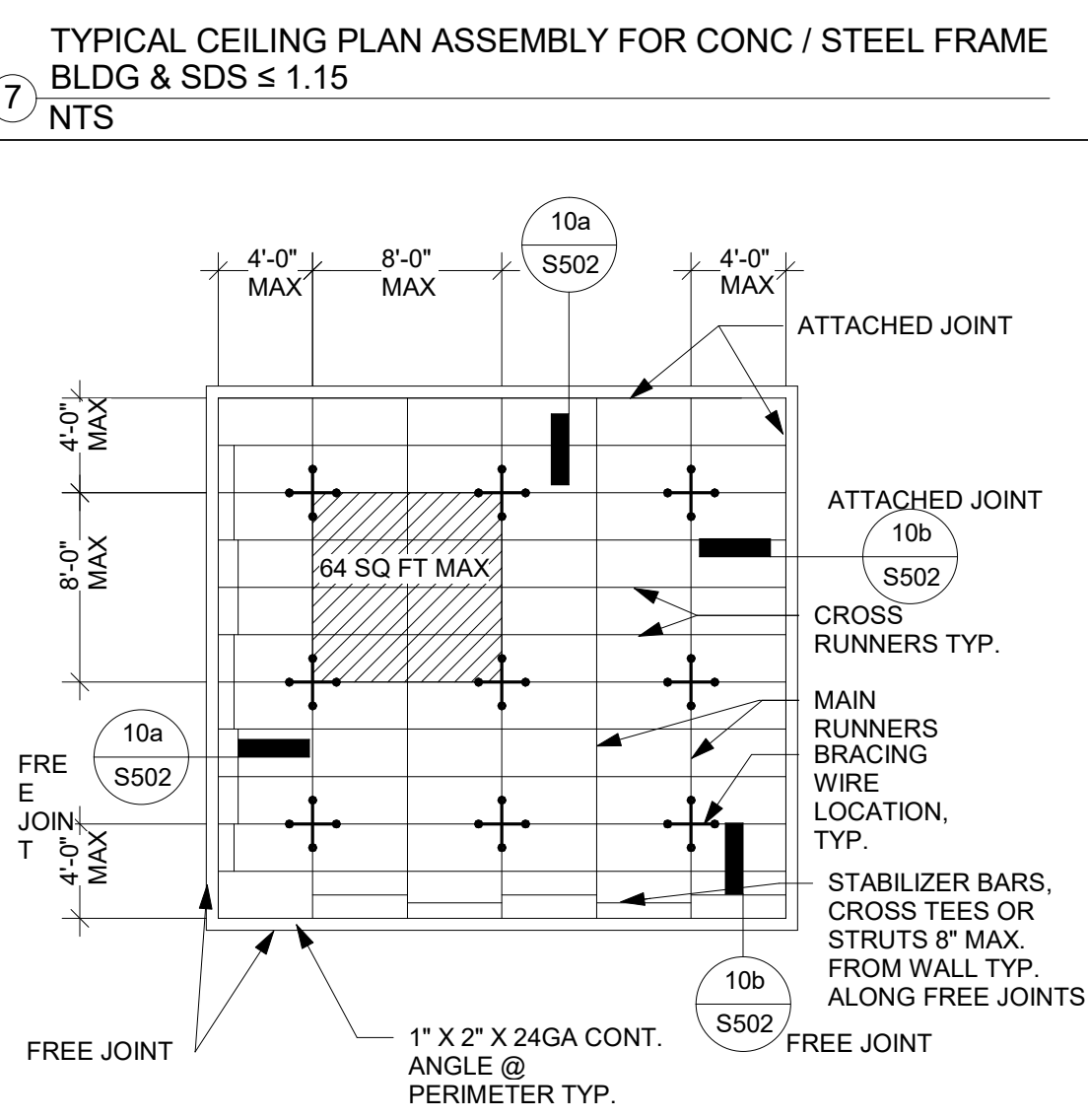
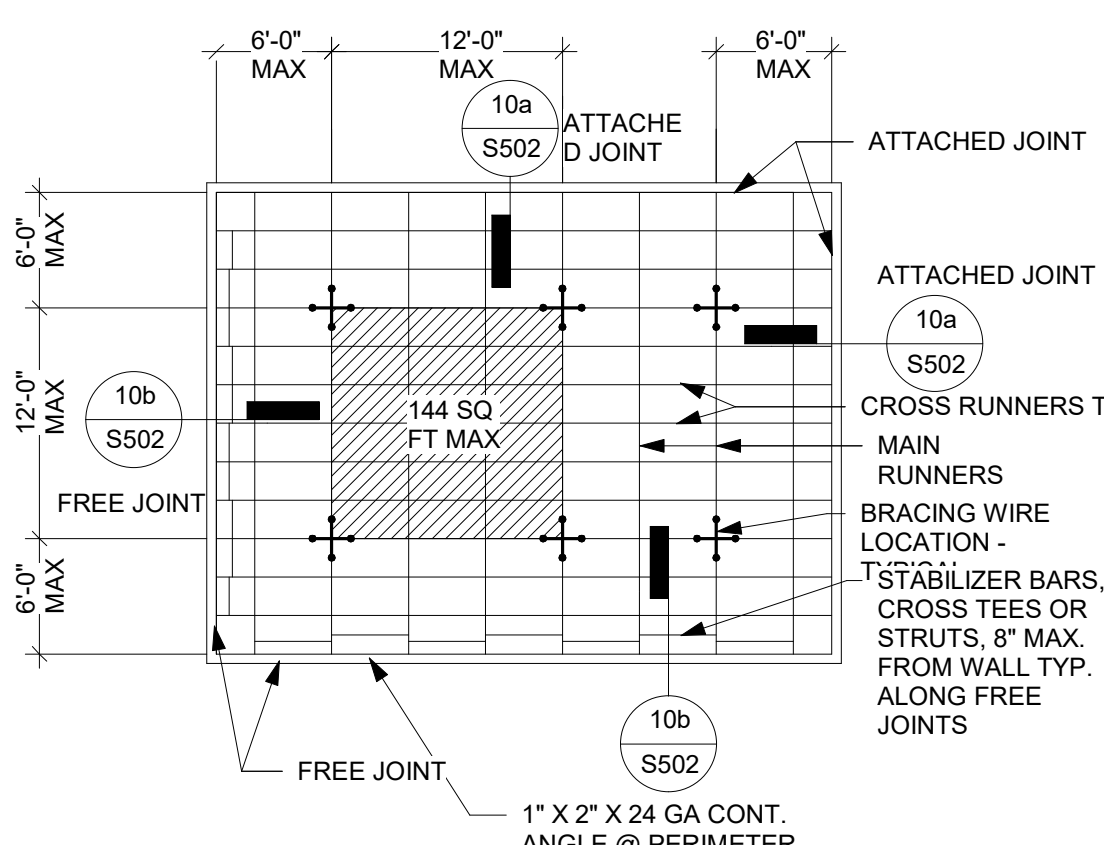
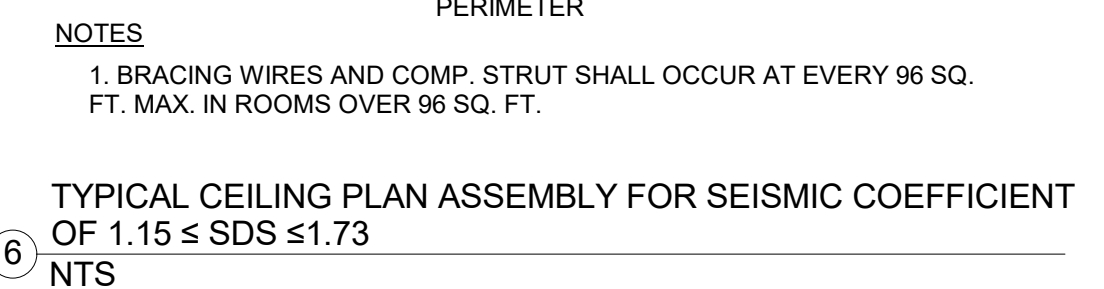
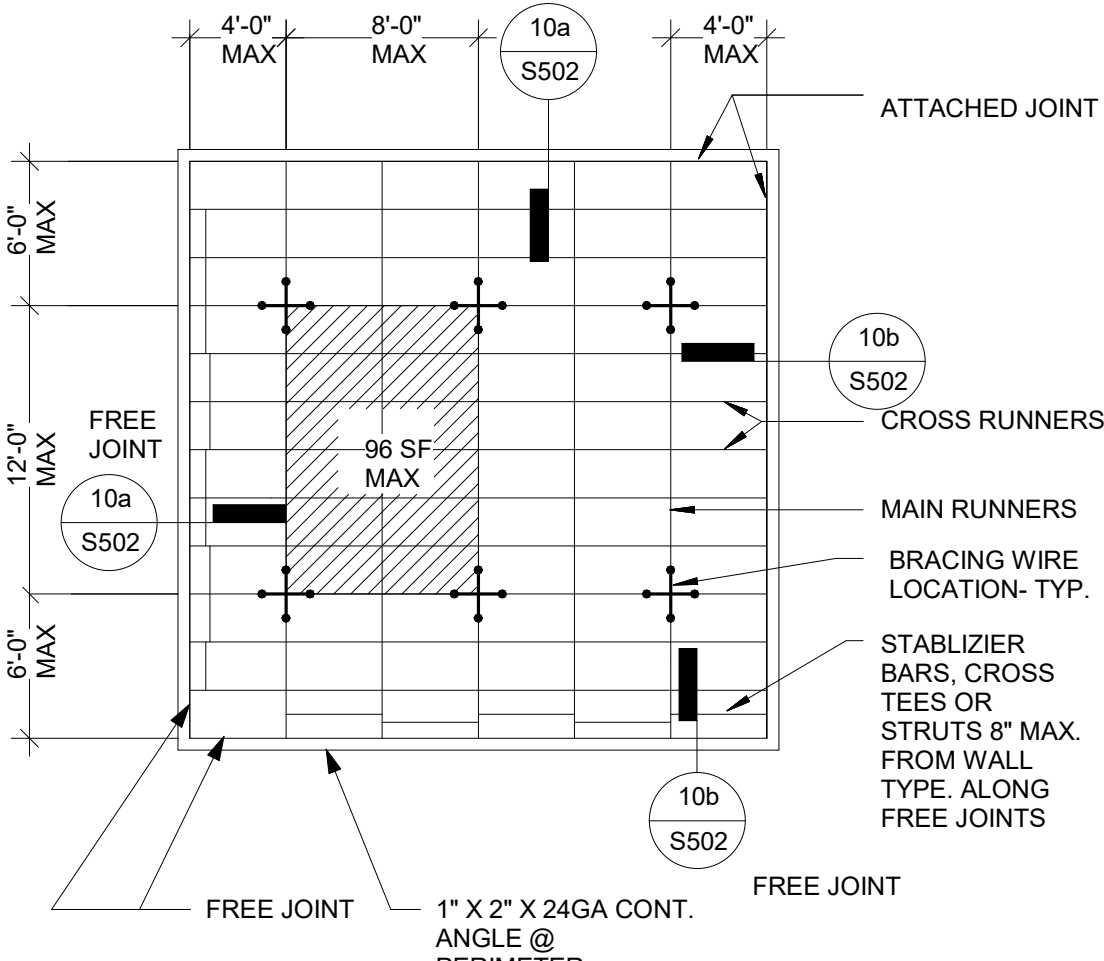
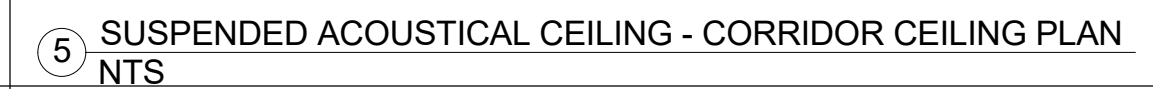
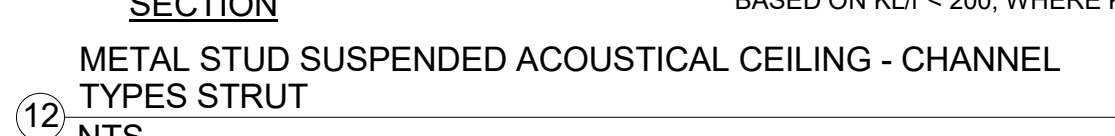
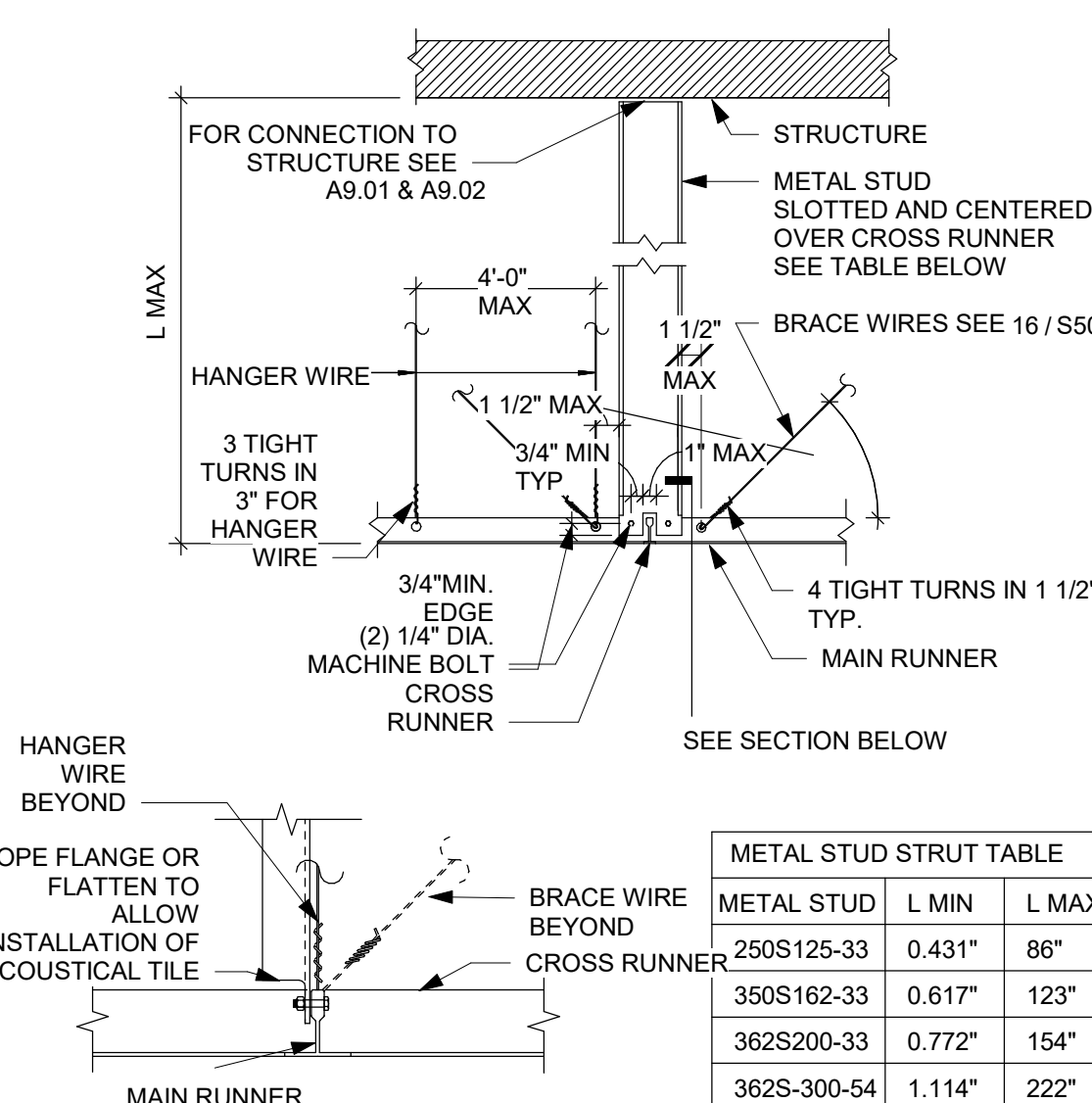
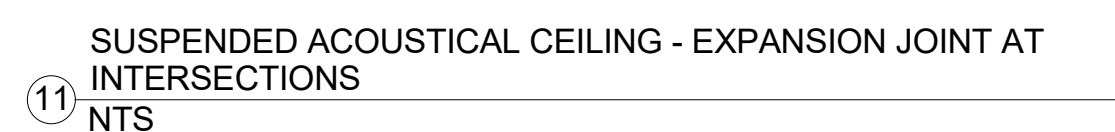
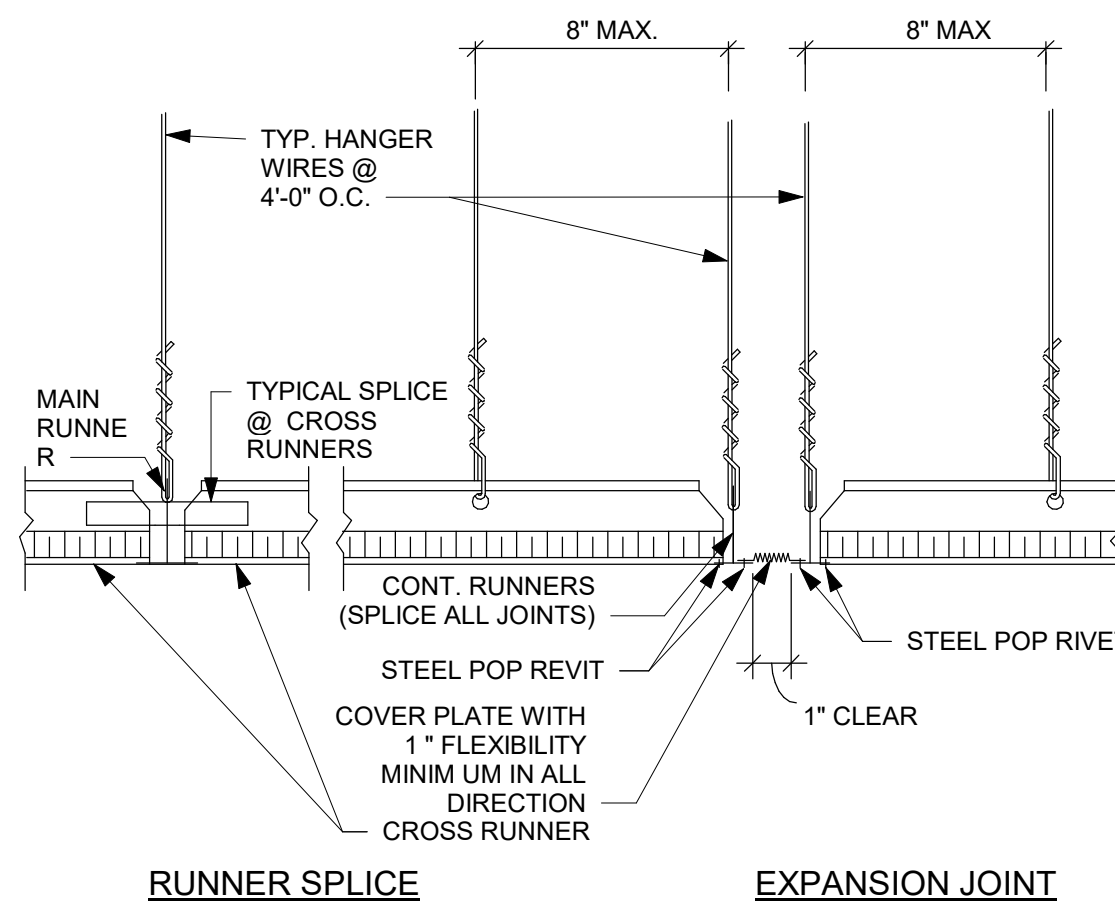
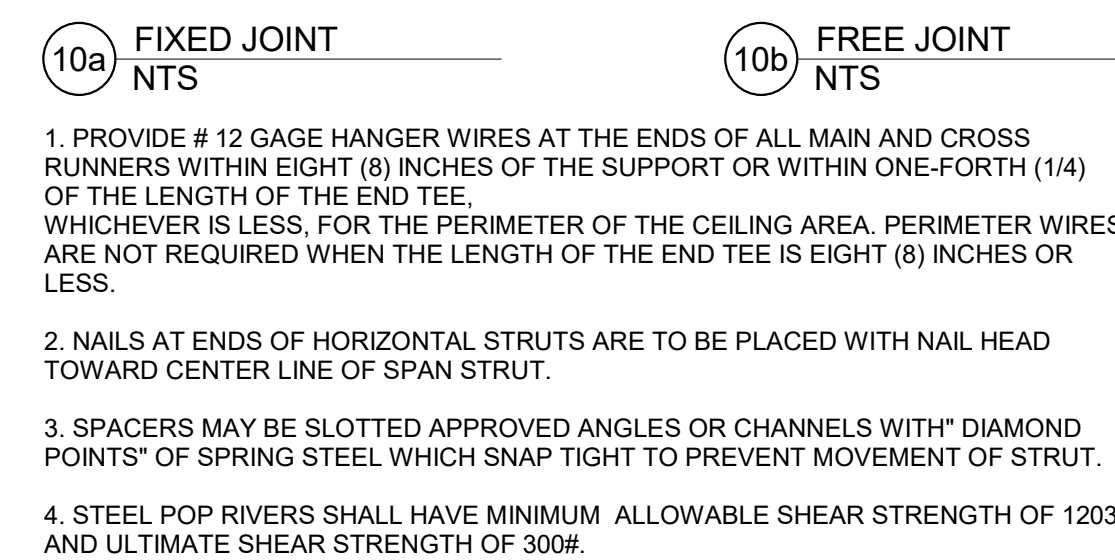
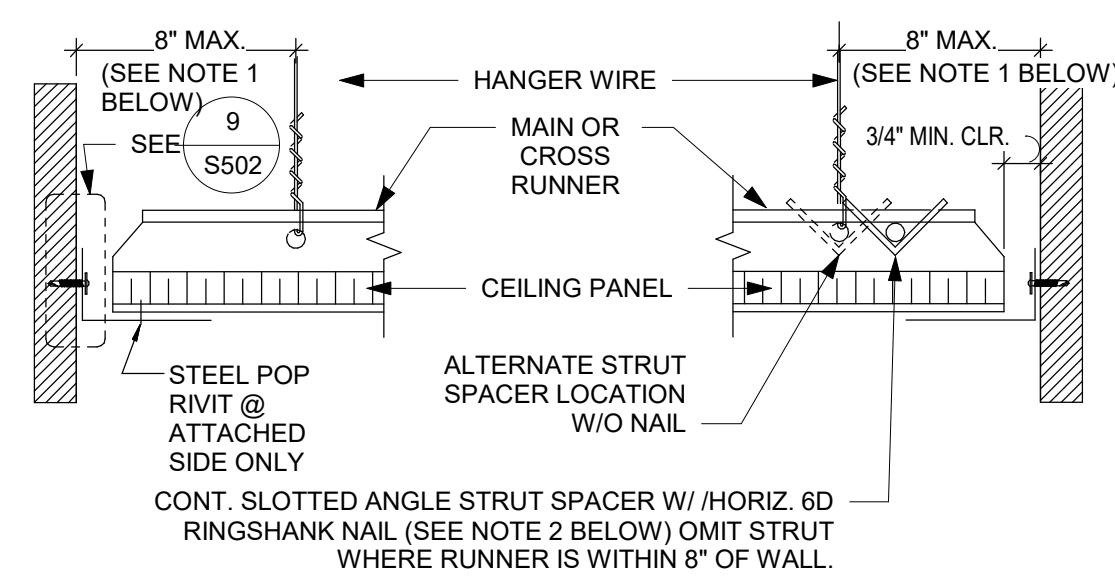
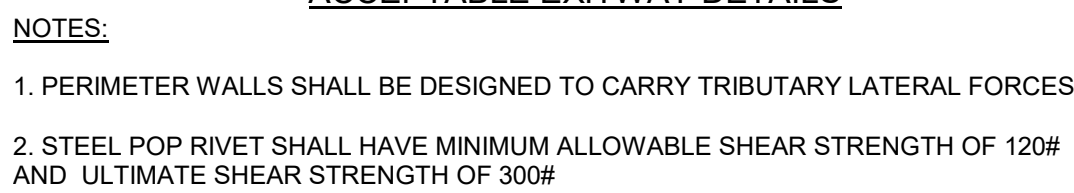
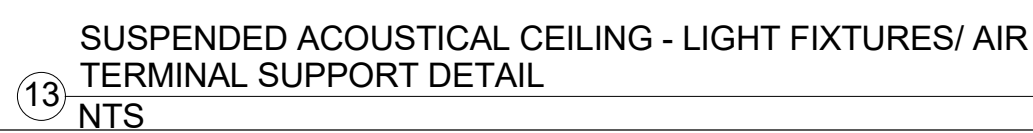
1120 South Dora St
Ukiah, California,
95482

SHEET TITLE:

TYPICAL SUSPENDED CEILING DETAILS SHEET

PROJ. NO.	2013-084-24		
PREPARATION AND REVIEW			
DRAWN BY:	Author		
DESIGNER:	Designer		
PROJ MGR:			
PEER REVIEW	Checker		
SHEET NUMBER:			

S501



REV	DESCRIPTION	INIT	DATE

100% DESIGN DEVELOPMENT SET	12-29-16
50% CONSTRUCTION DOCUMENTS SET	
ISSUED FOR PLAN CHECK	04-06-16
ISSUED FOR PERMIT	02-03-17
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	

SEAL

BID SET

CONSULTANT:

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(FAX) 232-5325
<http://www.intres.com>

PROJECT:

Mendocino County
Public Health Bldg.
South Wing HVAC
and Roof
Replacement

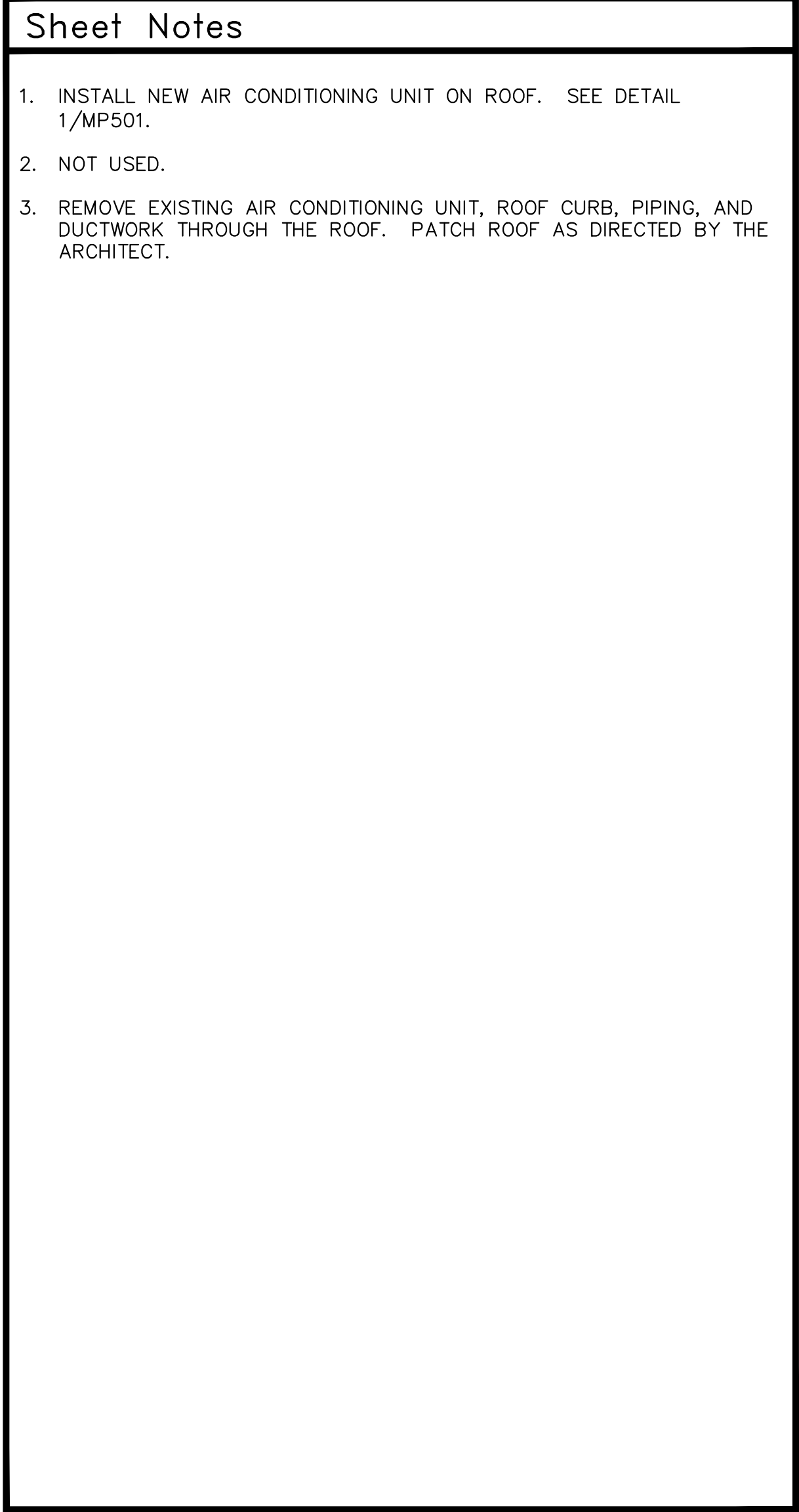
1120 South Dora St
Ukiah, California,
95482

SHEET TITLE:

SUSPENDED A.C.T. CEILING STANDARD DETAILS

PROJ. NO.	2013-084-24	
PREPARATION AND REVIEW		
DRAWN BY:	Author	
DESIGNER:	Designer	
PROJ MGR:		
PEER REVIEW	Checker	
SHEET NUMBER:		

S502



REV	DESCRIPTION	INIT	DATE
100	DESIGN DEVELOPMENT SET		12-29-16
50	CONSTRUCTION DOCUMENTS SET		
ISSUED FOR PLAN CHECK			04-06-16
ISSUED FOR PERMIT			12-29-16
ISSUED FOR BID			
ISSUED FOR CONSTRUCTION			

SEAL:

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CONSULTANT:



LOPEZ ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
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(415) 456-9248 fax

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Mendocino County
Public Health Building
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Union, California,
95482

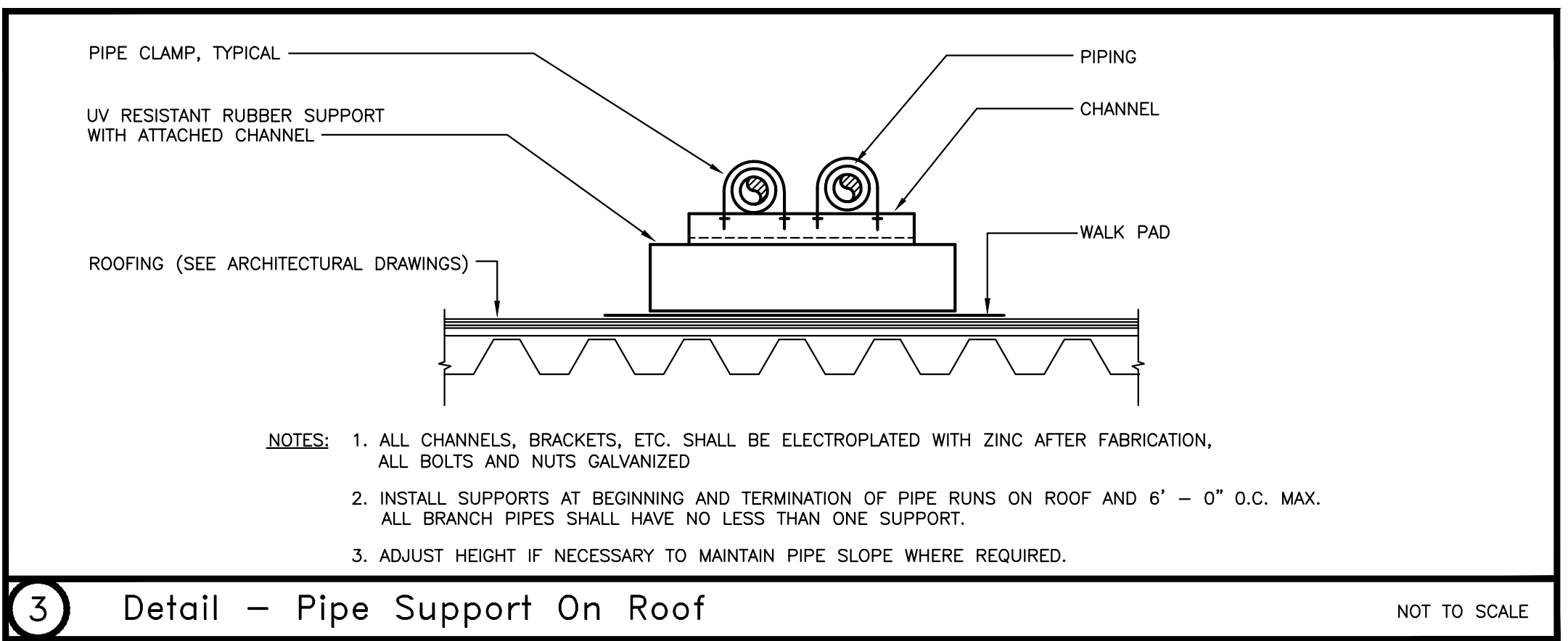
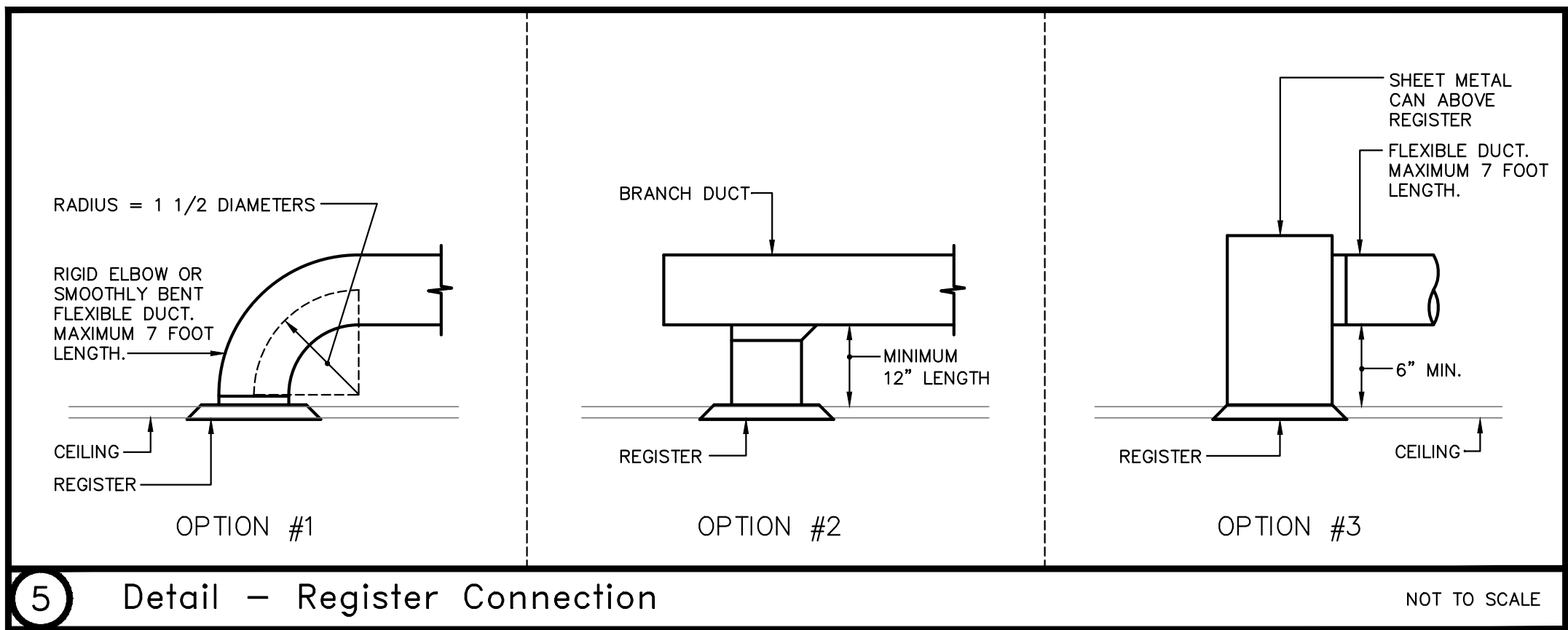
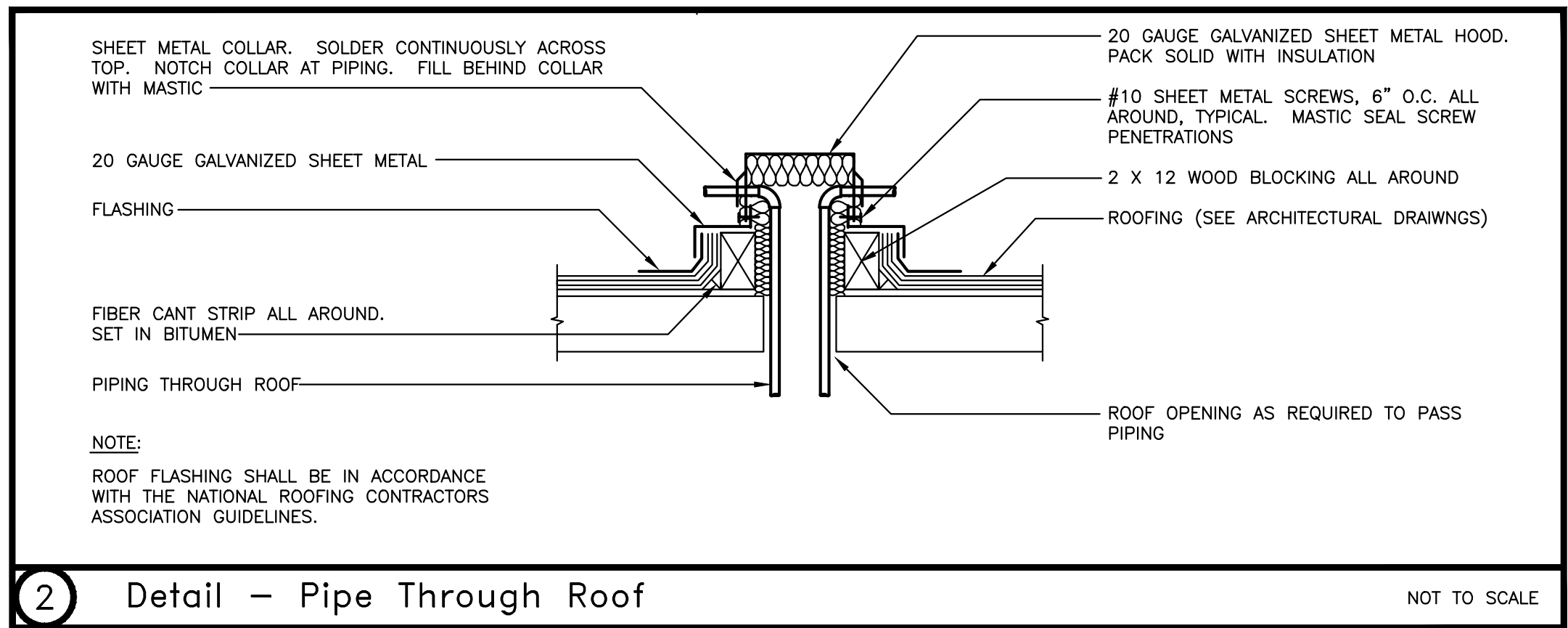
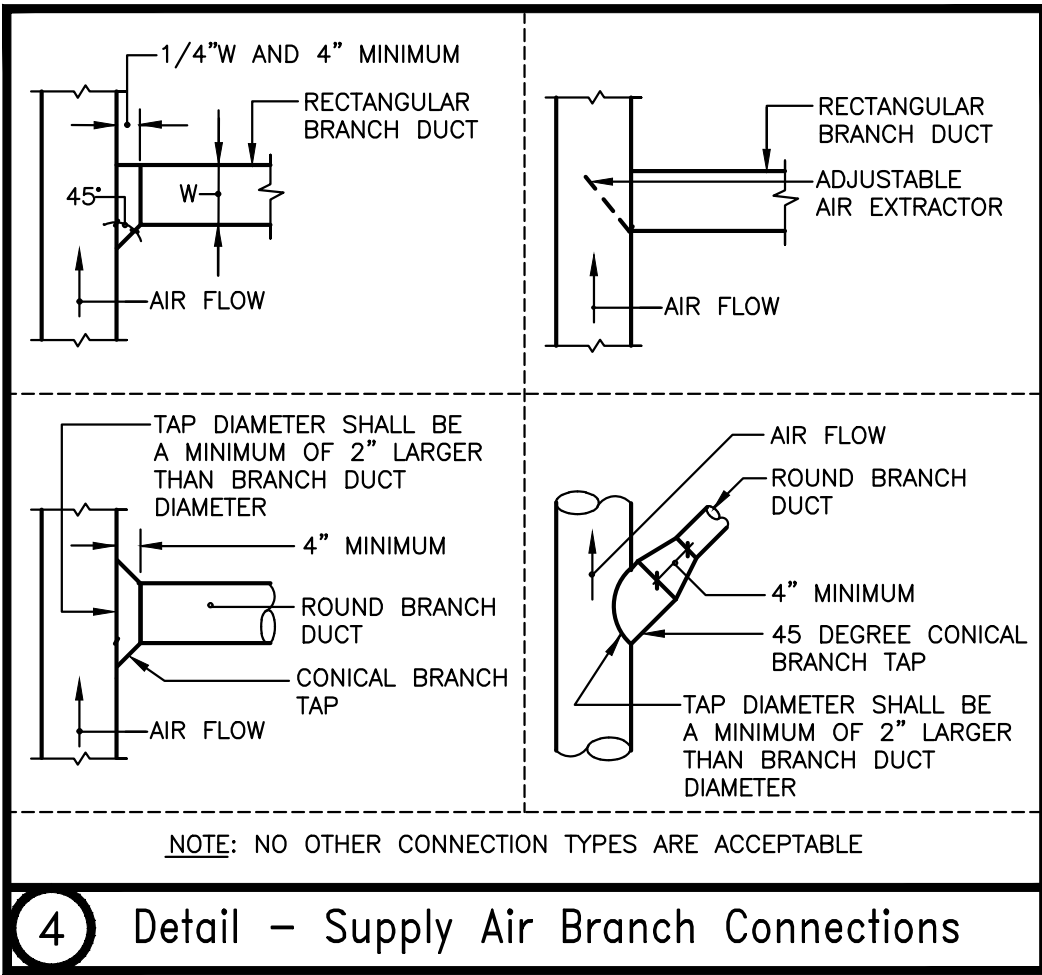
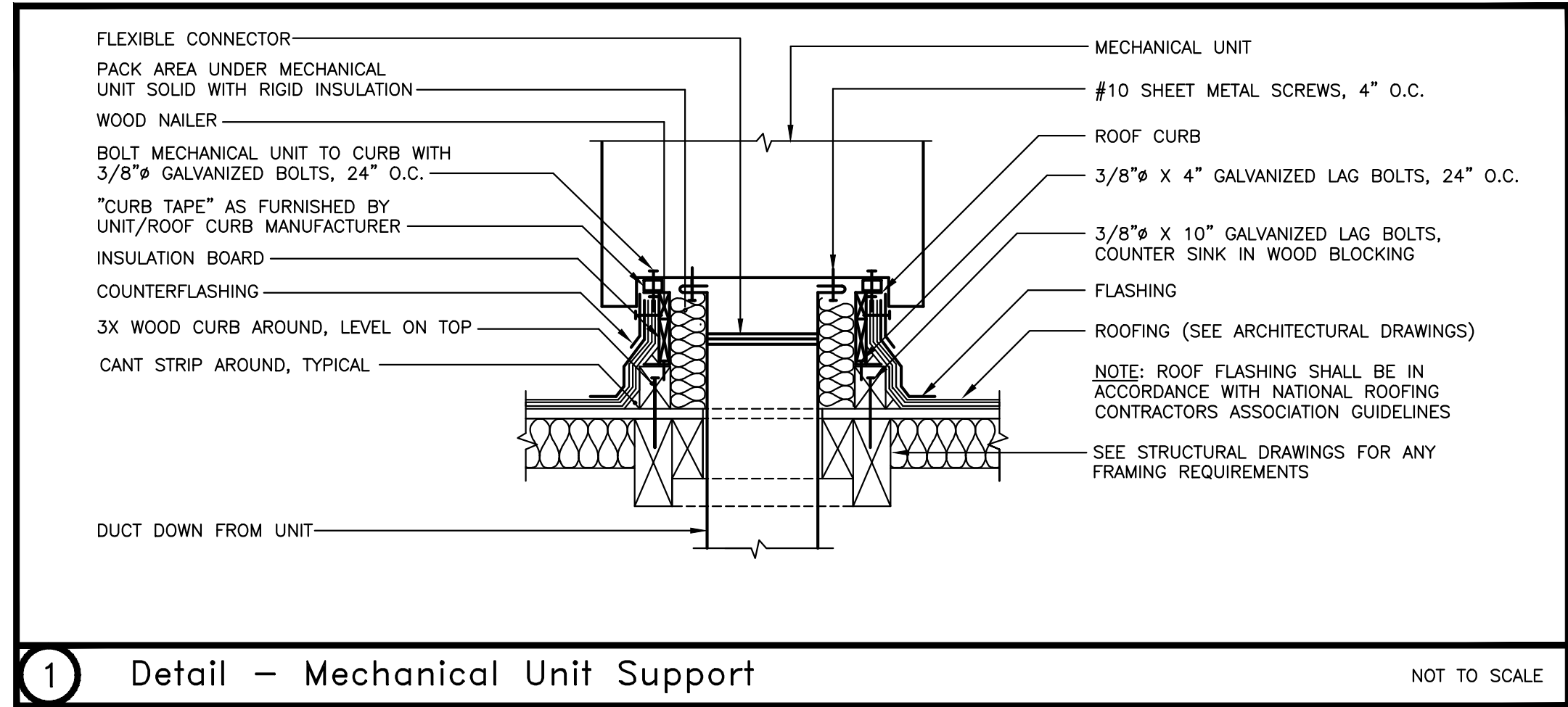
SHEET TITLE:

MECHANICAL ROOF PLAN

PROJ. NO.	2013-084-24
PREPARATION AND REVIEW	
DRAWN BY:	MJL
DESIGNER:	MJL
PROJ MGR:	MJL
PEER REVIEW	
SHEET NUMBER:	

M102

	RWL	RAINWATER LEADER PIPING
	G.	GAS PIPING
	CD	CONDENSATE DRAIN PIPING
	FD, RD	FLOOR DRAIN, ROOF DRAIN
	VTR	VENT THROUGH ROOF
	HB	HOSE BIBB
	①	DESIGNATION OF SHEET NOTE #1
	(E)	EXISTING
	(N)	NEW
	TYP.	TYPICAL
		GAS COCK
	B.V.	BALL VALVE



REV	DESCRIPTION	INIT	DATE
100	DESIGN DEVELOPMENT SET		12-29-16
50	CONSTRUCTION DOCUMENTS SET		
	ISSUED FOR PLAN CHECK		04-06-16
	ISSUED FOR PERMIT		12-29-16
	ISSUED FOR BID		
	ISSUED FOR CONSTRUCTION		

SEAL:

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CONSULTANT:





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1651 Second Street
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PROJECT:

Mendocino County
Public Health Bid
South Win HVAC
and Roof
Replacement

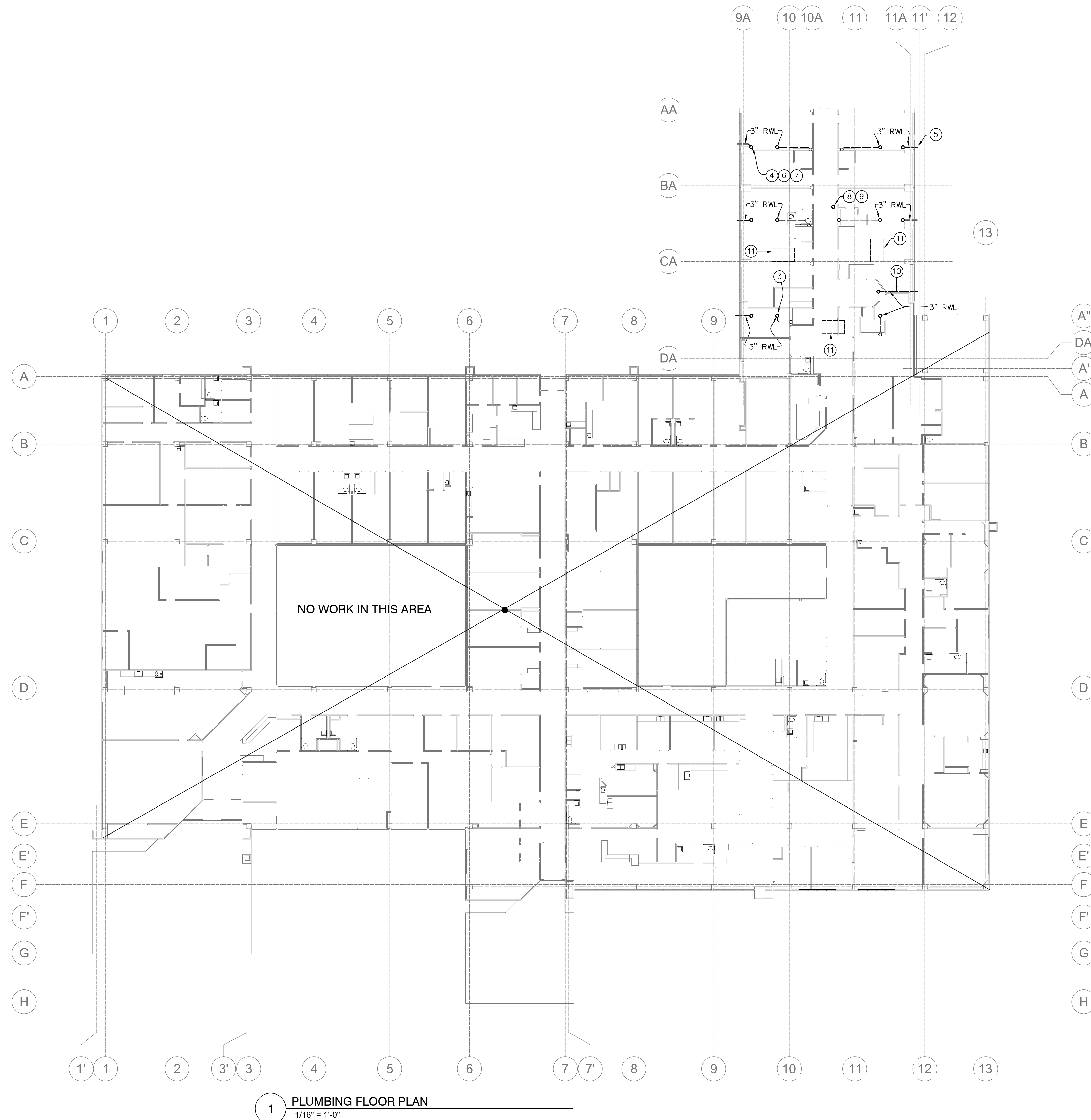
1120 South Dorset
Union, California,
95482

SHEET TITLE:

**MECHANICAL
PLUMBING
SCHEDULE,
DETAILS AND
LEGENDS**

PROJ. NO.	2013-084-24
PREPARATION AND REVIEW	
DRAWN BY:	MJL
DESIGNER:	MJL
PROJ. MGR:	MJL
PEER REVIEW	
SHEET NUMBER:	

MP501



Sheet Notes

1. NOT USED.
2. NOT USED.
3. EXISTING PIPING. RECONFIGURE TO CONNECT TO NEW PRIMARY ROOF DRAIN, TYPICAL.
4. CONNECT NEW RWL PIPING TO OVERFLOW ROOF DRAIN, TYPICAL.
5. TERMINATE OVERFLOW RWL PIPING THROUGH WALL WITH ZURN MODEL Z-199, OR EQUAL NOZZLE, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS.
6. SEE CONTINUATION UP ON SHEET P102, TYPICAL.
7. SEE SHEETS P102 FOR ROOF DRAIN LOCATIONS, TYPICAL.
8. EXISTING GAS PIPING. VERIFY EXACT LOCATION.
9. CUT EXISTING GAS PIPING AND CONNECT NEW GAS PIPING.
10. AS HIGH AS POSSIBLE ABOVE CEILING, TYPICAL.
11. NEW MECHANICAL UNIT ON ROOF.

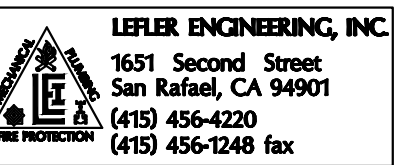
REV	DESCRIPTION	INIT	DATE

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PROJECT:

Mendocino County
Public Health Dept.
South Winthrop
and Room
Replacement

1120 South Dor St
Uich, Californi,
95482

SHEET TITLE:

PLUMBING FLOOR PLAN

PROJ. NO.	2013-084-24
PREPARATION AND REVIEW	
DRAWN BY:	MN
DESIGNER:	MJL
PROJ MGR:	MJL
PEER REVIEW	
SHEET NUMBER:	

P101



1. INSTALL NEW ROOF DRAIN, TYPICAL. MODIFY AND RECONNECT RVL PIPING AS REQUIRED.
2. INSTALL NEW OVERFLOW ROOF DRAIN, TYPICAL. INSTALL NEW RVL PIPING AND RUN TO TERMINATE THROUGH THE BUILDING WALL. SEE PIPING ON P101.
3. CAP PIPE BELOW ROOF. PATCH ROOF AS DIRECTED BY THE ARCHITECT..
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. REMOVE EXISTING CONDENSATE DRAIN PIPING AND ALL ASSOCIATED PIPE SUPPORTS.
8. NEW AIR CONDITIONING UNIT, TYPICAL. SEE MECHANICAL DRAWINGS.
9. CONNECT GAS PIPING THROUGH GAS COCK, DIRT LEG, AND UNION.
10. CONNECT CONDENSATE DRAIN PIPING THROUGH VENTED P-TRAP. RUN TO TERMINATED OVER ROOF DRAIN.
11. SEE DETAIL 3/MP501 FOR PIPE SUPPORT ON ROOF, TYPICAL.
12. SEE DETAIL 2/MP501 FOR DETAIL OF PIPE THROUGH ROOF, TYPICAL.
13. AIR CONDITIONING UNIT TO BE REMOVED. SEE MECHANICAL DRAWINGS. CUT AND REMOVE GAS AND CONDENSATE PIPING.
14. CONNECT TO EXISTING GAS PIPING, VERIFY EXACT LOCATION. EXTEND 1 1/2" GAS THROUGH ROOF AND RUN TO NEW AIR CONDITIONING UNITS.
15. NOT USED.

100 DESIGN DEVELOPMENT SET	12-29-16
50 CONSTRUCTION DOCUMENTS SET	
ISSUED FOR PLAN CHECK	04-06-16
ISSUED FOR PERMIT	12-29-16
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	

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Mendocino Co
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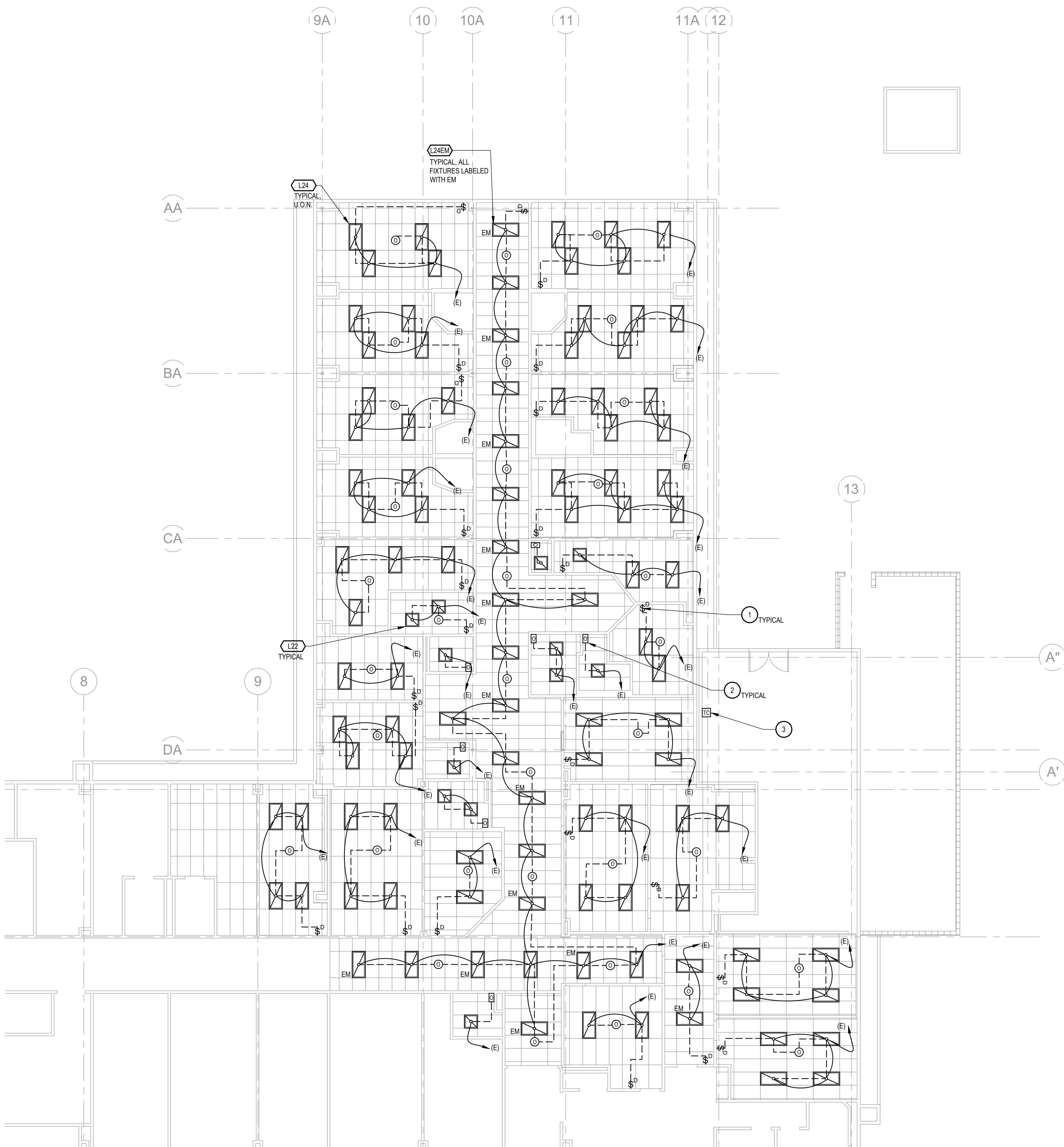
120 South Dor St
Uich, Calif
95482

PLUMBING ROOF PLAN

PROJ. NO. 2013-084-24	
PREPARATION AND REVIEW	
DRAWN BY: MN	
DESIGNER: MJL	
PROJ MGR: MJL	
PEER REVIEW	
SHEET NUMBER:	

P102

LIGHTING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMP	LAMP WATTAGE	FIXTURE INPUT WATTS	LUMENS/ FIXTURE	MOUNTING	NOTES
L24	2X4 RECESSED DIRECT/INDIRECT LED FIXTURE WITH 0-10V DIMMING AND INTEGRAL NIGHT CONTROL.	LITHONIA	2R1L4 30L E21 LP835 N80	LED	31	31	3,000	RECESSED	
L24M	2X4 RECESSED DIRECT/INDIRECT LED FIXTURE WITH 0-10V DIMMING AND INTEGRAL NIGHT CONTROL, WITH INTEGRAL EMERGENCY BATTERY BACK-UP.	LITHONIA	2R1L4 30L E21 LP835 N80 E1L7.	LED	31	31	3,000	RECESSED	
L22	2X4 RECESSED DIRECT/INDIRECT LED FIXTURE WITH 0-10V DIMMING AND INTEGRAL NIGHT CONTROL.	LITHONIA	2R1L2 20L E21 LP835 N80	LED	21	21	2,000	RECESSED	



1 LIGHTING PLAN

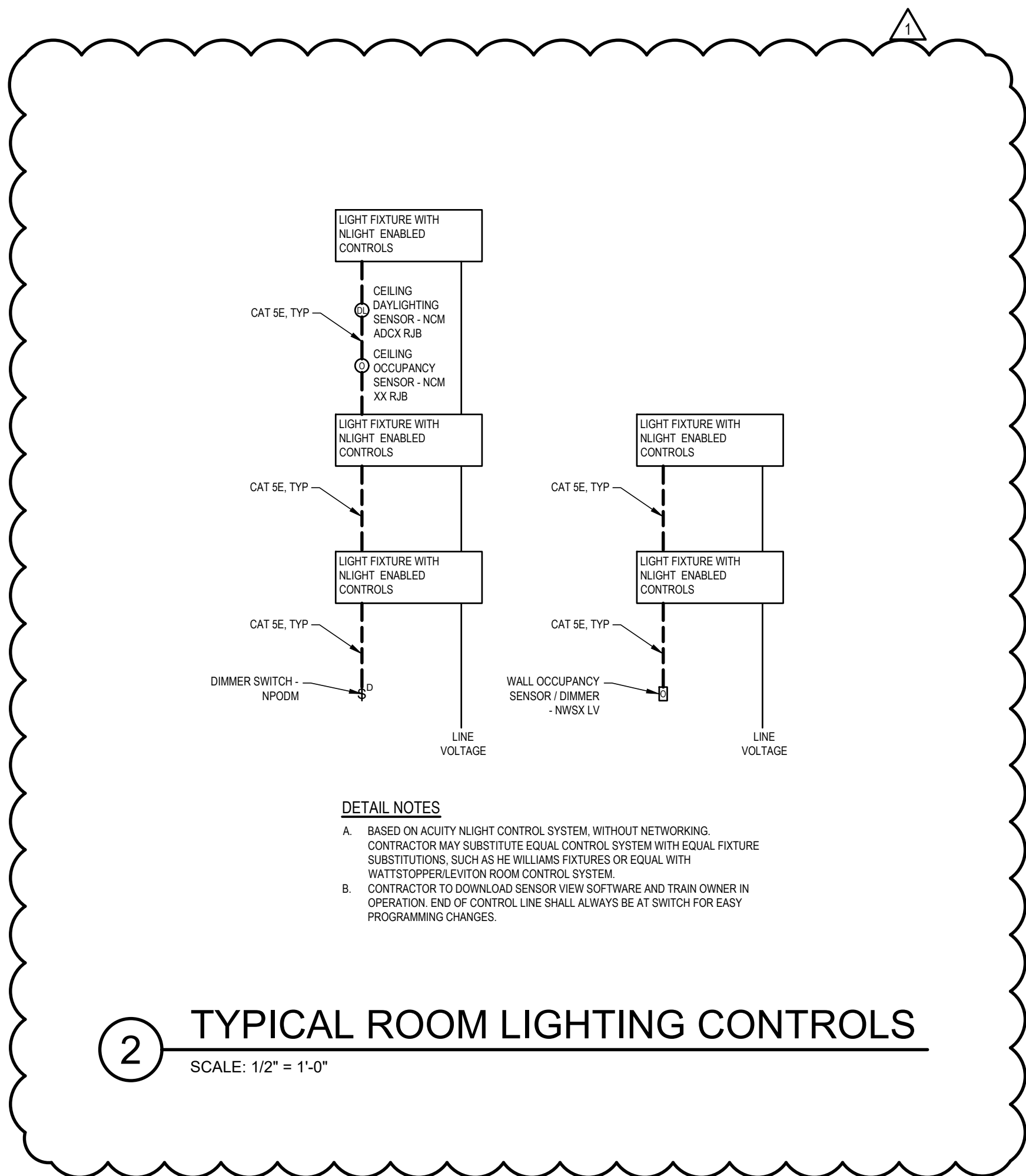
SCALE: 1/8" = 1'-0"

SHEET NOTES

- | | |
|----|---|
| A. | EXISTING EXIT SIGNS THROUGH OUT BUILDING SHALL REMAIN. CONTRACTOR SHALL REMOVE AND RELOCATE WHERE IN CONFLICT WITH NEW CEILING INSTALLATION. RECONNECT TO EXISTING CIRCUIT. |
| B. | LIGHT SWITCHES SHALL USE EXISTING JUNCTION BOX AND CONDUIT TO ABOVE CEILING. VERIFY EXACT LOCATIONS IN FIELD. |
| C. | ALL NEW FIXTURES SHALL BE LIGHT ENABLED. CONTRACTOR SHALL PROGRAM ALL FIXTURES AND PROVIDE OWNER WITH SOFTWARE AND TRAIN MAINTENANCE STAFF ON MODIFYING PROGRAMMING. |
| D. | ALL FIXTURES SHALL BE RECONNECTED TO EXISTING LIGHTING CIRCUIT IN ROOM (LIFELINE ROOM WATTAGE HAS BEEN REDUCED. VERIFY EXISTING VOLTAGE PRIOR TO ORDERING FIXTURES. |
| E. | HALLWAY FIXTURES SHALL BE PROGRAMMED TO REDUCE LIGHTING TO 50% WHEN UNOCCUPIED. HALLWAY FIXTURES SHALL BE RUN THRU TIME CLOCK FOR SLEEP OFF. |
| F. | ALL NEW LIGHTING SHALL MEET OR EXCEED TITLE 24 REQUIREMENTS. |
| G. | CONTRACTOR TO PROVIDE NEW LIGHTING IN ALL AREAS WHERE NEW CEILING IS REQUIRED BECAUSE OF UPGRADED MECHANICAL SYSTEMS. |

KEYNOTES

1. NEW DIMMER SWITCHES SHALL USE EXISTING JUNCTION BOX AND CONDUIT TO ABOVE CEILING. VERIFY EXACT LOCATIONS IN FIELD.
2. PROVIDE DIMMER OCCUPANCY SENSOR SWITCH. USE EXISTING JBOX AND CONDUIT TO ABOVE CEILING.
3. PROVIDE NEW TIMECLOCK IN ELECTRICAL ROOM TO SWEEP OFF HALLWAY FIXTURES.



SPECIAL SYMBOLS

-----	CAT 5E CABLING FOR LIGHTING CONTROL CONNECTIONS BETWEEN NLIGHT CONTROL COMPONENTS. PROVIDE UNIQUE COLOR. COORDINATE WITH BUILDING MANAGEMENT EXACT COLOR DESIRED. ALL CAT5E CABLING SHALL EITHER BE IN CONDUIT OR MOUNTED ON JHOOKS MAX 5FT ON CENTER. CABLING SHALL NOT BE LAID DIRECTLY ON CEILING.
EM	PROVIDE 90-MINUTE EMERGENCY BATTERY BACK-UP

[illegible]

ISSUED FOR PERMIT	08-08-2016
ISSUED FOR BID	02-06-2017
ISSUED FOR CONSTRUCTION	

SEAL:

BID SET

CONSULTANT:

BrokawDesign

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PROJECT:

UKIAH MENDOCINO
PUBLIC HEALTH
ROOF
REPLACEMENT

1120 SOUTH DORA ST
UKIAH, CA 95482

SHEET TITLE

LIGHTING PLAN

PROJ. NO. 2013-084-24	
PREPARATION AND REVIEW	
DRAWN BY:	CAC
DESIGNER:	CAC
PROJ MGR:	CAC
PEER REVIEW	MOB
SHEET NUMBER:	

E1.02



- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING AVAILABLE RECORD DOCUMENTS.
- B. CONTRACTOR TO REUSE ALL EXISTING ROOFING CONDUNIT, WIRE, BOXES, AND FASTENING DEVICES. CONTRACTOR TO VERIFY ALL EXISTING EQUIPMENT IS IN GOOD CONDITION AND ARE SECURELY FASTENED.
- C. EXISTING MECHANICAL EQUIP SHALL REUSE EXISTING DISCONNECT SWITCHES. EXISTING EQUIPMENT TO REMAIN SHALL BE PROTECTED DURING ROOF RENOVATION.
- D. INSTALL TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- E. DO NOT PERFORM WORK ON ENERGIZED EQUIPMENT OR CIRCUITS.
- F. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- G. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN OR TO BE REINSTALLED.

1. EXISTING CONDUITS SHALL BE LIFTED AND MAINTAINED DURING NEW ROOF CONSTRUCTION. EXISTING CONDUIT AND CONDUCTORS SHALL REMAIN FOR ALL EQUIPMENT REMAINING. CONTRACTOR TO PROVIDE NEW CONDUIT SUPPORTS ON ROOF. PROVIDE COPPER DURA-BRO OR EQUAL AT MAX 10FT ON CENTER. CONTRACTOR SHALL VERIFY ALL CONDUITS AND FITTING ARE IN GOOD CONDITION AND SECURE. REPLACE ANY DEFECTIVE ITEMS FOUND.
2. DEMOLISH EXISTING EQUIPMENT AND ASSOCIATED DISCONNECT. REUSE EXISTING CONDUIT FOR NEW EQUIPMENT CONNECTION.

NEC DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": MOTOR LOADS (LARGEST MOTOR)		125%	
TYPE "M": MOTOR LOADS (REMAINING)		100%	
TYPE "L": LIGHTING LOADS		125%	
TYPE "R": RECEPTACLES (FIRST 10KVA)		100%	
TYPE "R": RECEPTACLES (OVER 10KVA)		50%	
TYPE "H": HVAC LOADS	45.00	100%	45.00
TYPE "P": PANEL LOADS		100%	
TYPE "O": OTHER LOADS	3.00	100%	3.00
		DEMAND KVA:	48.00
		DEMAND AMPS:	57.8

PANEL SCHEDULE																			
EXISTING PANEL NAME: HEBB										NOTES :									
MANE RATING: 300 (A)										VOLTAGE: 480									
BUS RATING: 225 (A)										NEMA RATING: 1									
CKT NO	CONDUIT	PHASE WIRE	NEUT WIRE	USE	DESCRIPTION	WIRE #	BKR OPTS	BKR KVA	PHASE	BKR KVA	BKR OPTS	BKR SIZE	DESCRIPTION	USE	NEUT WIRE	PHASE WIRE	CONDUIT	CKT NO	
1				H				5.75	A	5.75		150	(E) HOT WATER PUMP	O				1	
2				H				5.75	B	5.75				O				2	
3	REUSE	8		H	AC-1	30/3		5.75	C	5.75				O				3	
5	EXISTING	8		H				5.75	C	5.75				O				4	
11	1 1/2 INCH EXTEND TO	8		H	AC-2	30/3		5.75	A	5.75		150	(E) HOT WATER PUMP	O				5	
13	LOCATIONS	8		H				5.75	B	5.75				O				10	
15		8		H				5.75	C	5.75				O				12	
17		8		H	AC-3	30/3		5.75	B	5.75				O				15	
19				H				5.75	C	5.75				O				18	
21				H				5.75	A	5.75				O				20	
23				H				5.75	B	5.75				O				22	
25				H				5.75	C	5.75				O				24	
27				H				5.75	A	5.75				O				26	
29				H				5.75	B	5.75				O				28	
31				H				5.75	C	5.75				O				30	
33				H				5.75	A	5.75				O				32	
35				H				5.75	B	5.75				O				34	
37				H				5.75	C	5.75				O				36	
39				H				5.75	A	5.75				O				38	
41				H				5.75	B	5.75				O				40	
43				H				5.75	C	5.75				O				42	
LOADS:										BREAKER OPTIONS:									
PHASE A: 18.1 (KVA)										GFCI - GROUND FAULT CIRCUIT INTERRUPTER									
PHASE B: 18.1 (KVA)										HVAC									
PHASE C: 18.1 (KVA)										LIGHTING									
TOTAL: 54.3 (CONNECTED KVA)										LO - LOCK ON DEVICE									

NEC DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": MOTOR LOADS (LARGEST MOTOR)		125%	
TYPE "M": MOTOR LOADS (REMAINING)		100%	
TYPE "L": LIGHTING LOADS		125%	
TYPE "R": RECEPTACLES (FIRST 10KVA)		100%	
TYPE "R": RECEPTACLES (OVER 10KVA)		50%	
TYPE "H": HVAC LOADS	51.30	100%	51.30
TYPE "P": PANEL LOADS		100%	
TYPE "O": OTHER LOADS	3.00	100%	3.00
		DEMAND KVA:	54.30
		DEMAND AMPS:	66.3

Overall Building (existing 2000 amp 208/120V 3P service):	
Existing	518.00 kW
Added Load	6.30 kW
Total	524.30 kW
Total Amps	1456 Amps

ISSUED FOR PERMIT	08-08-2016
ISSUED FOR BID	02-06-2017
ISSUED FOR CONSTRUCTION	

BID SET

BrokawDesign

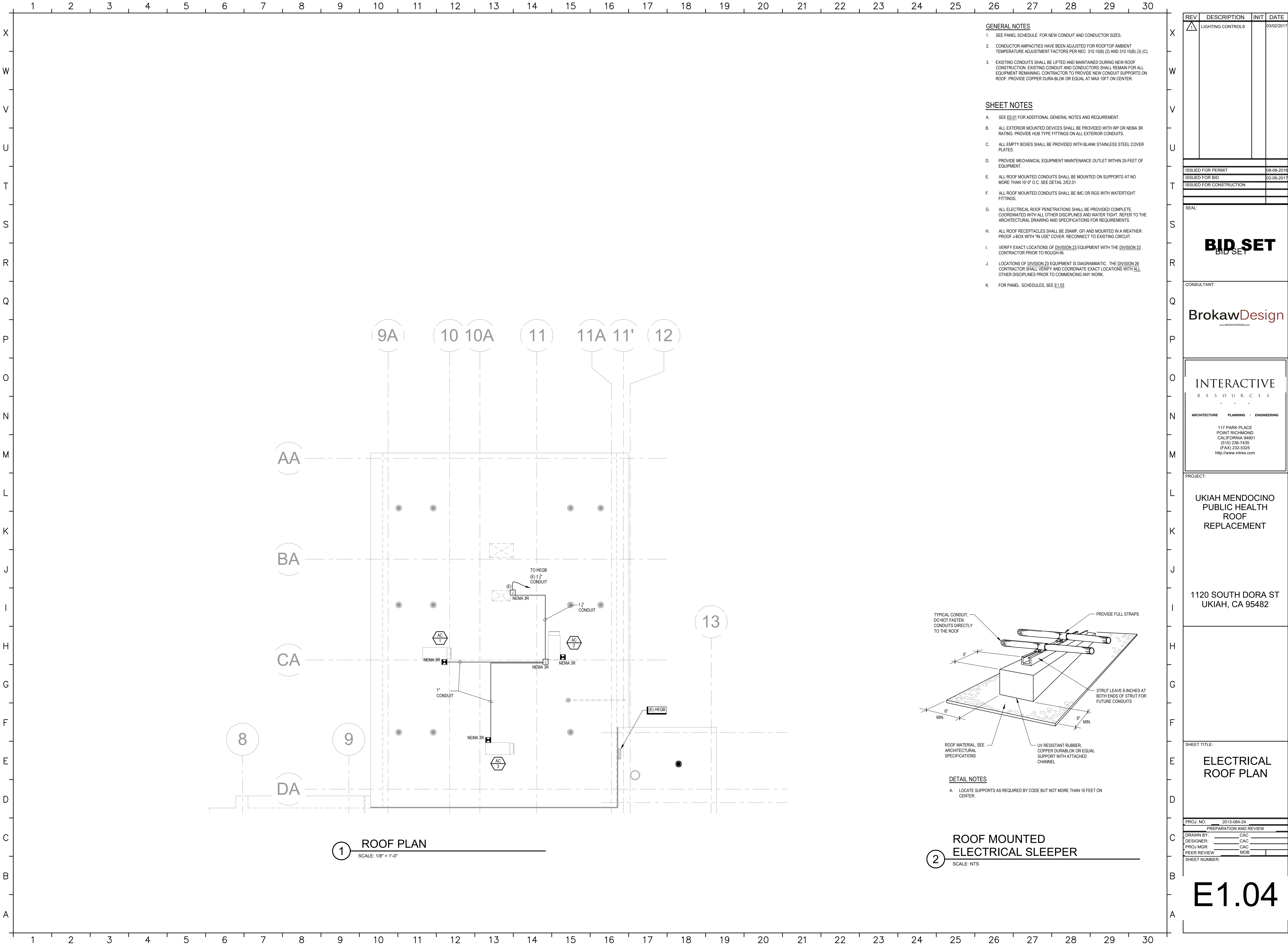
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UKIAH MENDOCINO
PUBLIC HEALTH
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REPLACEMENT

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UKIAH, CA 95482

PREPARATION AND REVIEW			
DRAWN BY:	CAC		
DESIGNER:	CAC		
PROJ MGR:	CAC		
PEER REVIEW	MOB		

E1.03



REV	DESCRIPTION	INIT	DATE
1	LIGHTING CONTROLS		03/02/2017

ISSUED FOR PERMIT	08-08-2016
ISSUED FOR BID	02-06-2017
ISSUED FOR CONSTRUCTION	

SEAL:

BID SET
BID SET

CONSULTANT:

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PROJECT:

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PUBLIC HEALTH
ROOF
REPLACEMENT**

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SHEET TITLE:

**ELECTRICAL
ROOF PLAN**

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