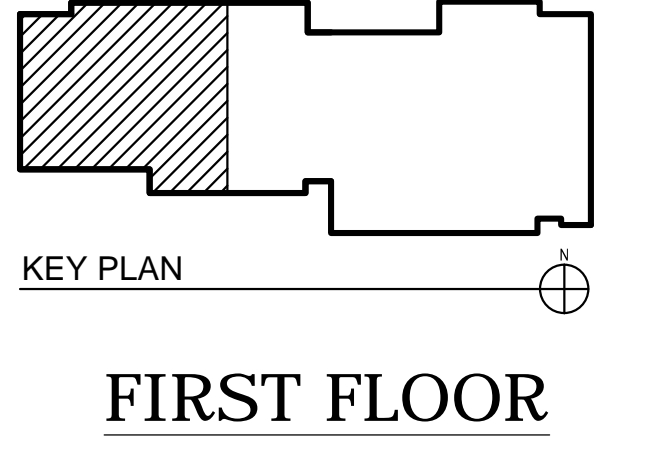
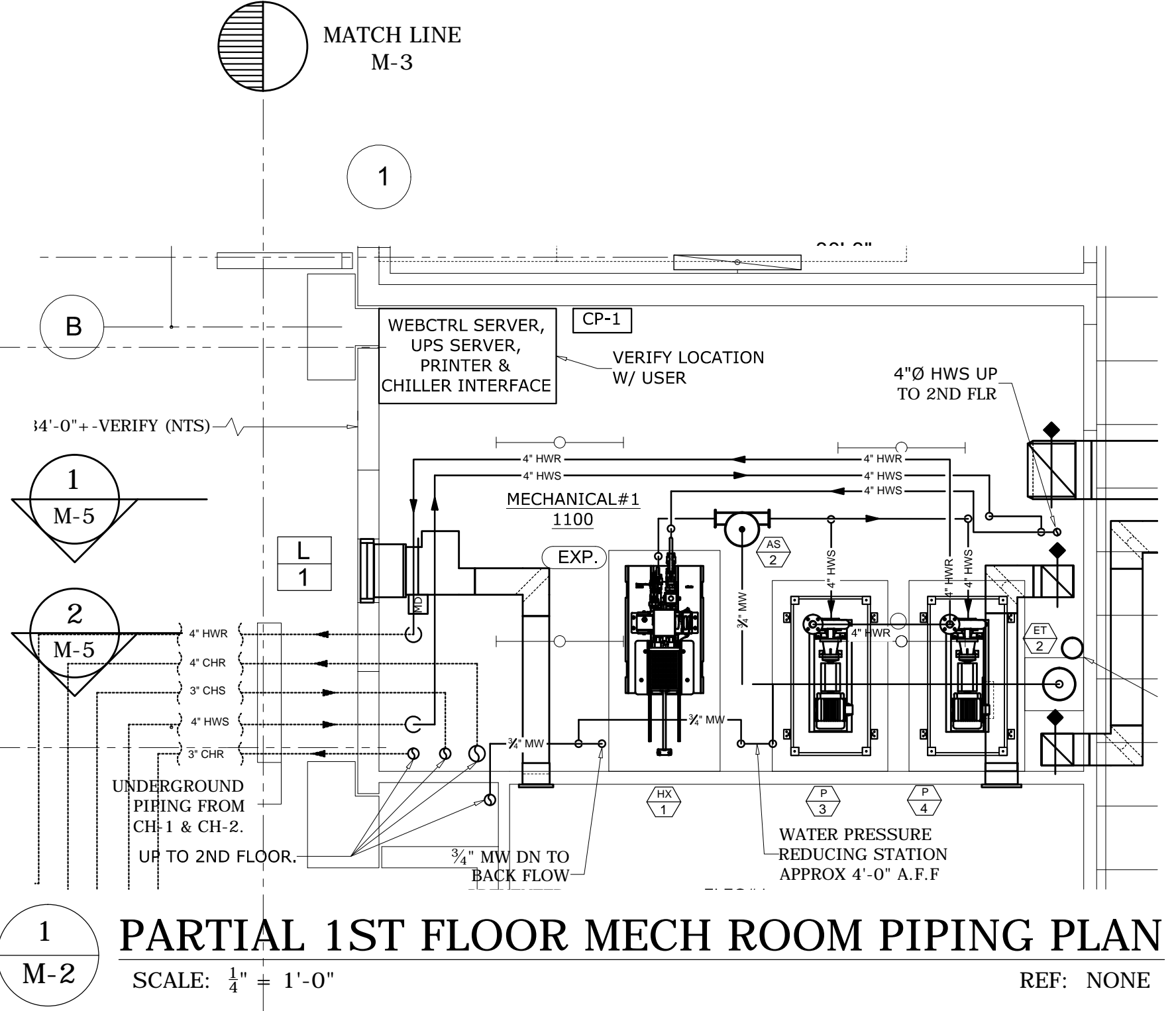


DO NOT USE POWER ACTUATED FASTENERS FOR PRE-STRESSED ELEMENTS. USE ONLY SHALLOW DRILL-IN ANCHORS DESIGNED SPECIFICALLY FOR A PARTICULAR PRE-STRESSED ELEMENT, BUT NEVER AT BOTTOM OR SIDES OF PRE-STRESSED TEE STEMS OR BEAMS.



REV.	DATE	DESCRIPTION
8	6-4-14	ADDED MISSING EAR IN MECH #1
7	7-10-13	DUCT MODIFIED TO CLEAR PIPING.

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MECHANICAL ENGINEER:	SAIC	DRAWN BY:	OM/CO
GENERAL CONTRACTOR:	DAWSON TECHNICAL LLC	JOB NO.:	8410
	A/C & VENTILATION SHOP DRAWING	DATE:	6-3-13
	29TH IBCT READINESS CENTER (BDE) KALAHELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET:	M-2
		OF:	12

PROJECT RECORD DRAWING 8-7-14

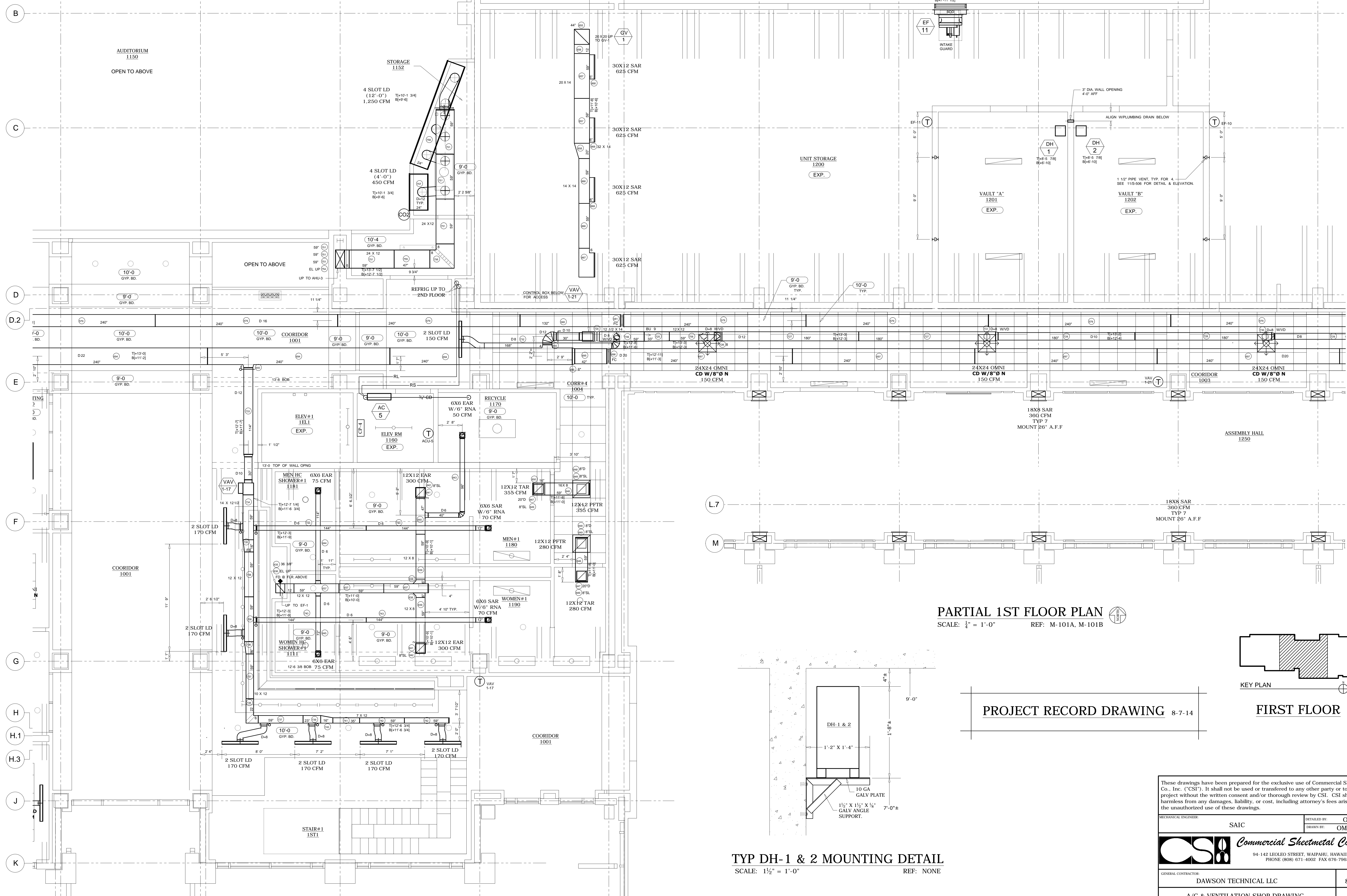
PARTIAL 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"
REF: M-101A

ALIGN ALL LD'S OC WITH AND EQUIDISTANT BETWEEN LIGHTS, TYP. U.N.O.

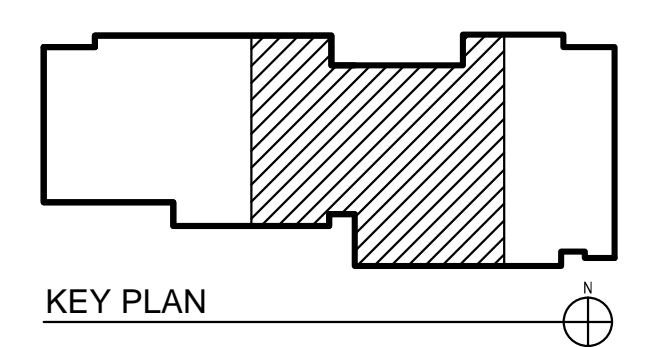
MATCH LINE
M-2

DO NOT USE POWER ACTUATED FASTENERS FOR PRE-STRESSED ELEMENTS. USE ONLY SHALLOW DRILL-IN ANCHORS DESIGNED SPECIFICALLY FOR A PARTICULAR PRE-STRESSED ELEMENT, BUT NEVER AT BOTTOM OR SIDES OF PRE-STRESSED TEE STEMS OR BEAMS.

MATCH LINE
M-4

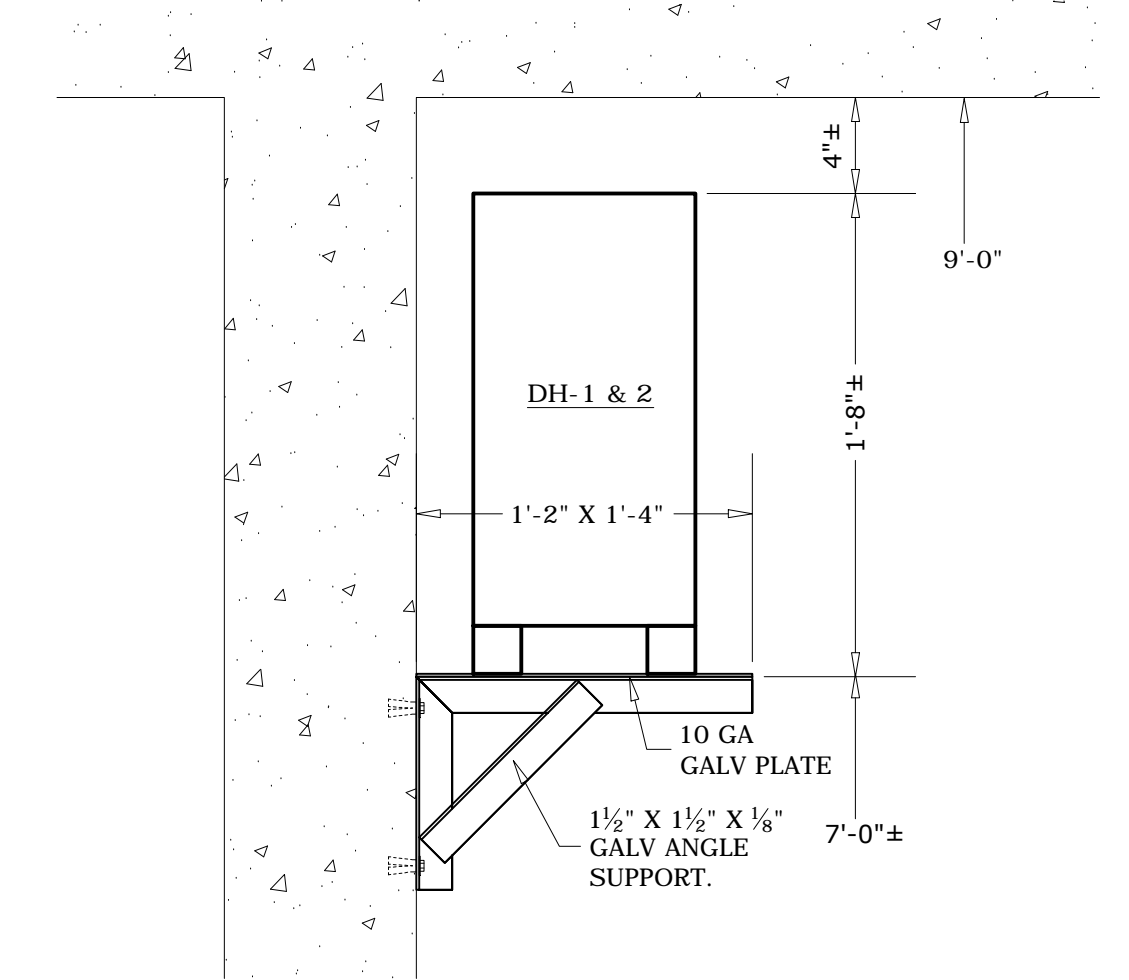


PARTIAL 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-101A, M-101B



PROJECT RECORD DRAWING 8-7-14

FIRST FLOOR



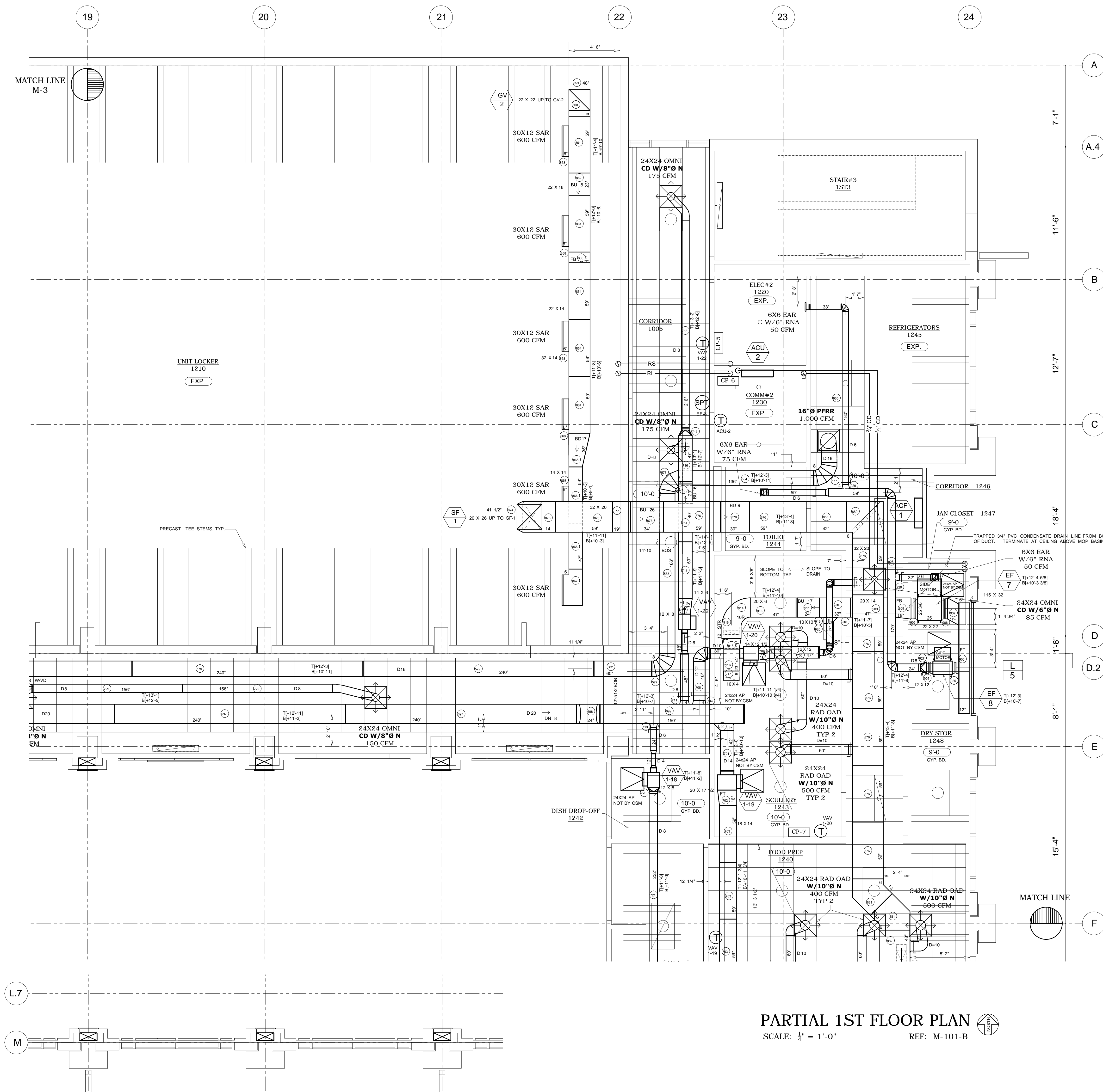
TYP DH-1 & 2 MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0" REF: NONE

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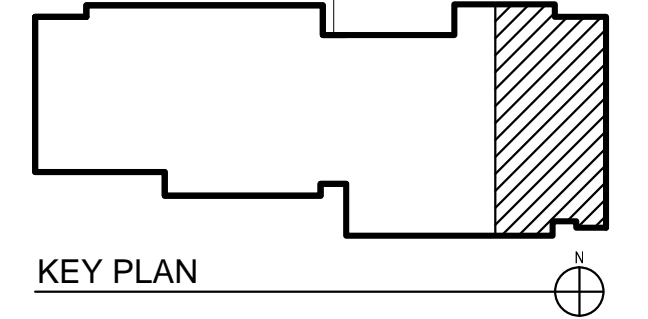
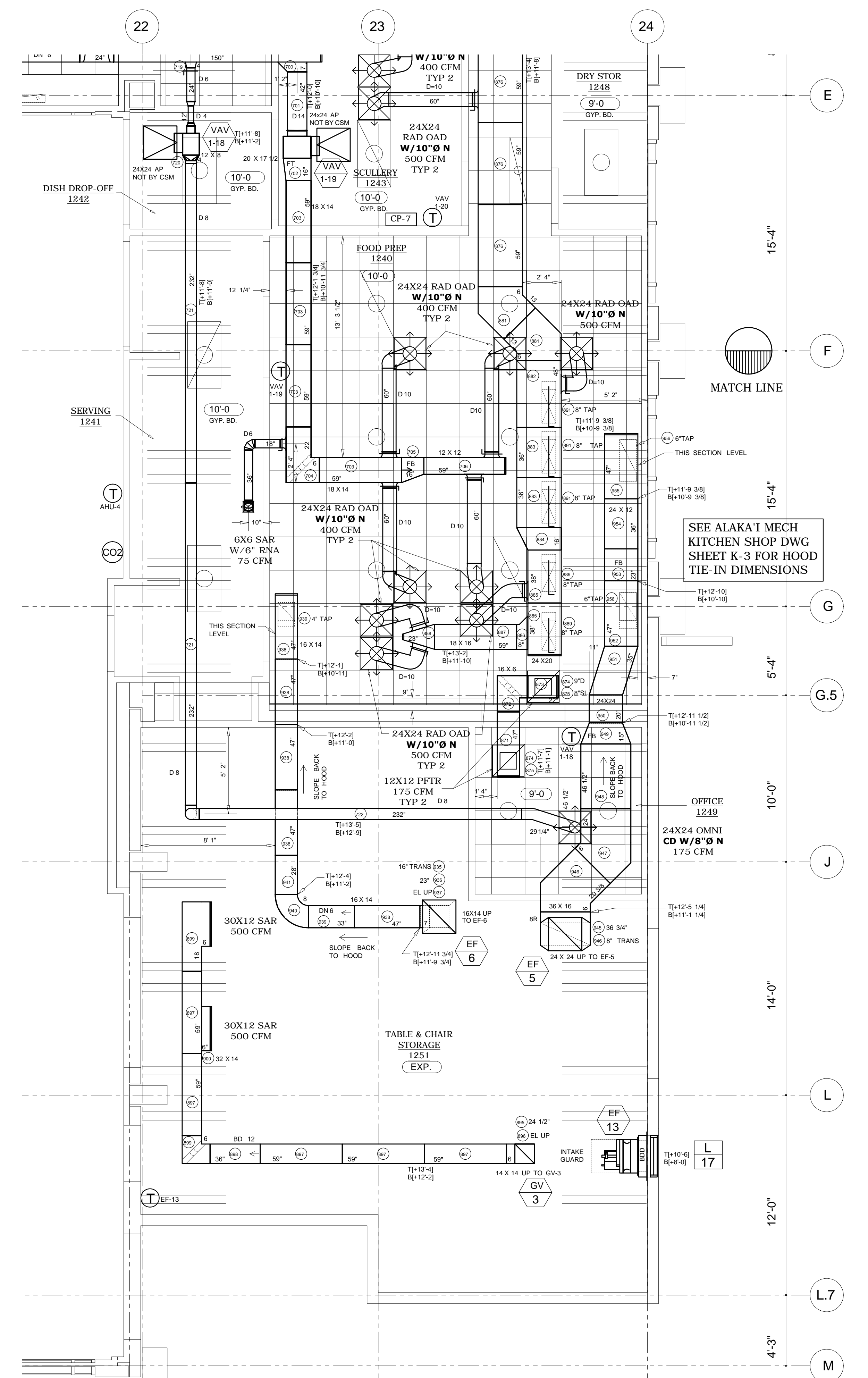
MECHANICAL ENGINEER: SAIC	DRAWN BY: OM/CO
Commercial Sheetmetal Co., Inc.	
94-142 LEOLELE STREET, WAIKIKII, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965	

GENERAL CONTRACTOR: DAWSON TECHNICAL LLC	JOB NO. 8410
A/C & VENTILATION SHOP DRAWING	DATE 6-3-13
29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET M-3 OF 12

REV.	DATE	DESCRIPTION



PARTIAL 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-101-B




FIRST FLOOR

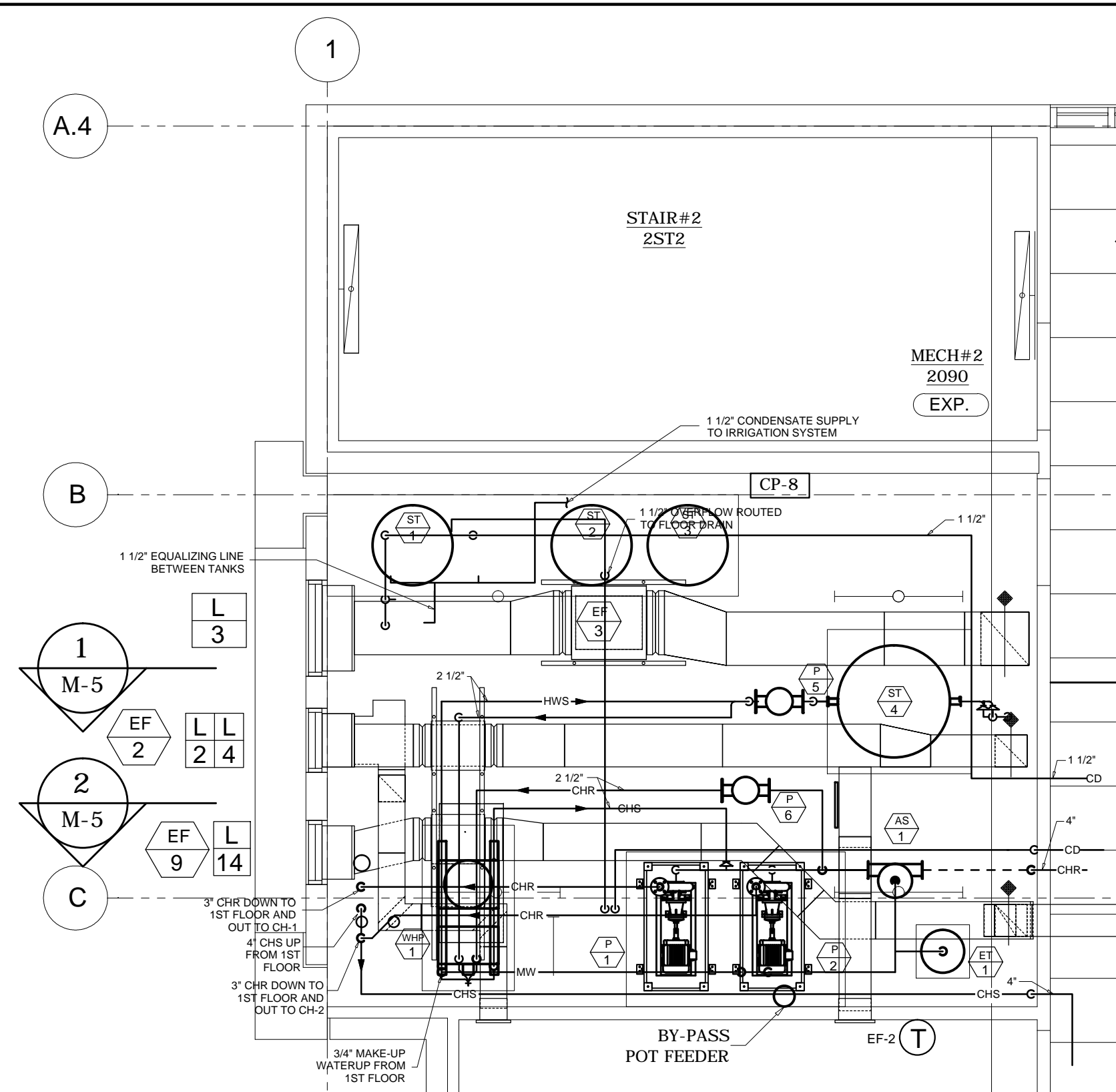
PROJECT RECORD DRAWING 8-7-14

- 4 9-9-13 EF-7 DUCTWORK REVISED.
- 3 7-22-13 DUCT SIZE ADDED PER APPROVED DRAWING.
- 2 7-10-13 DUCT MODIFIED TO CLEAR PIPING.

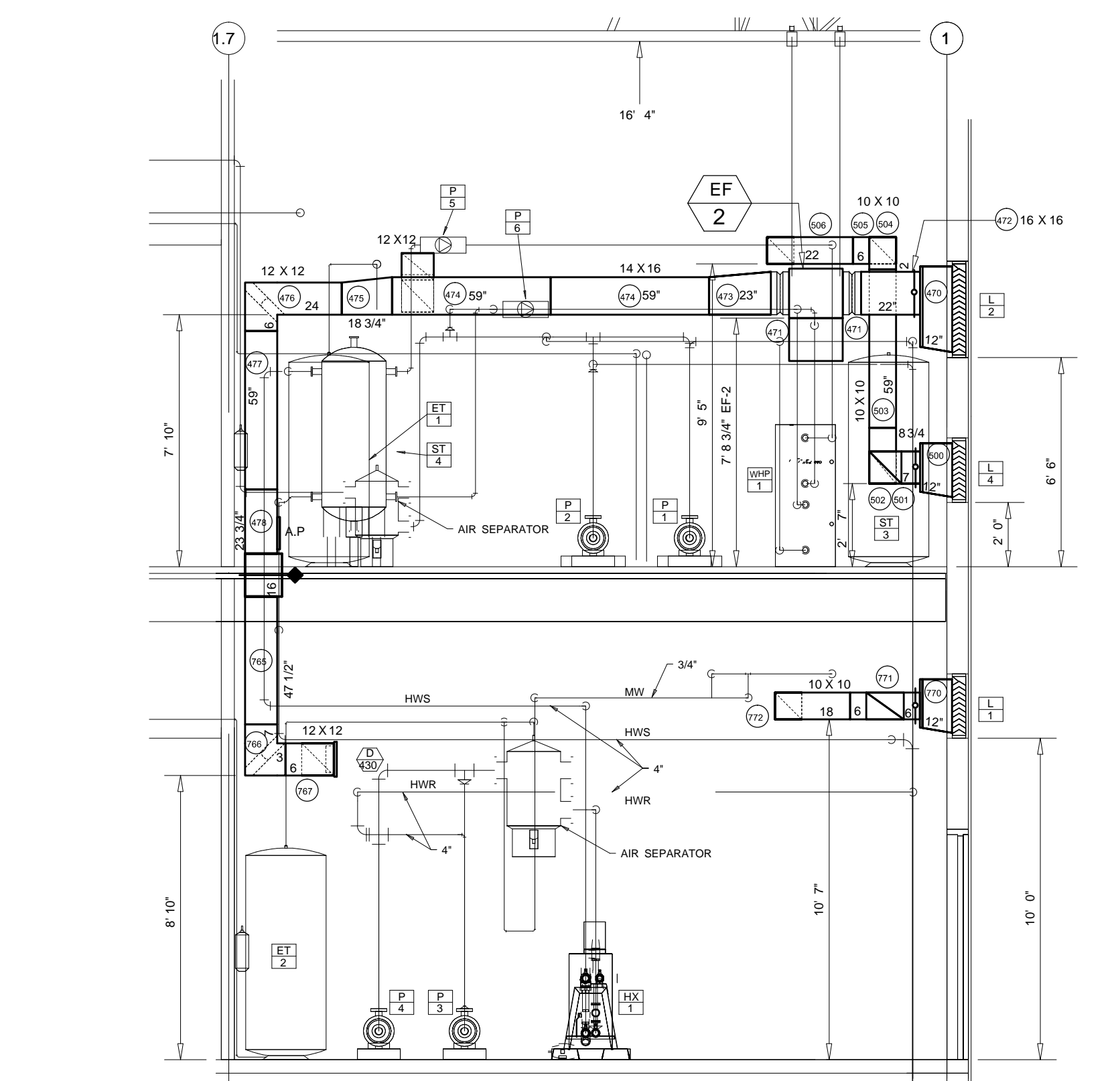
REV.	DATE	DESCRIPTION

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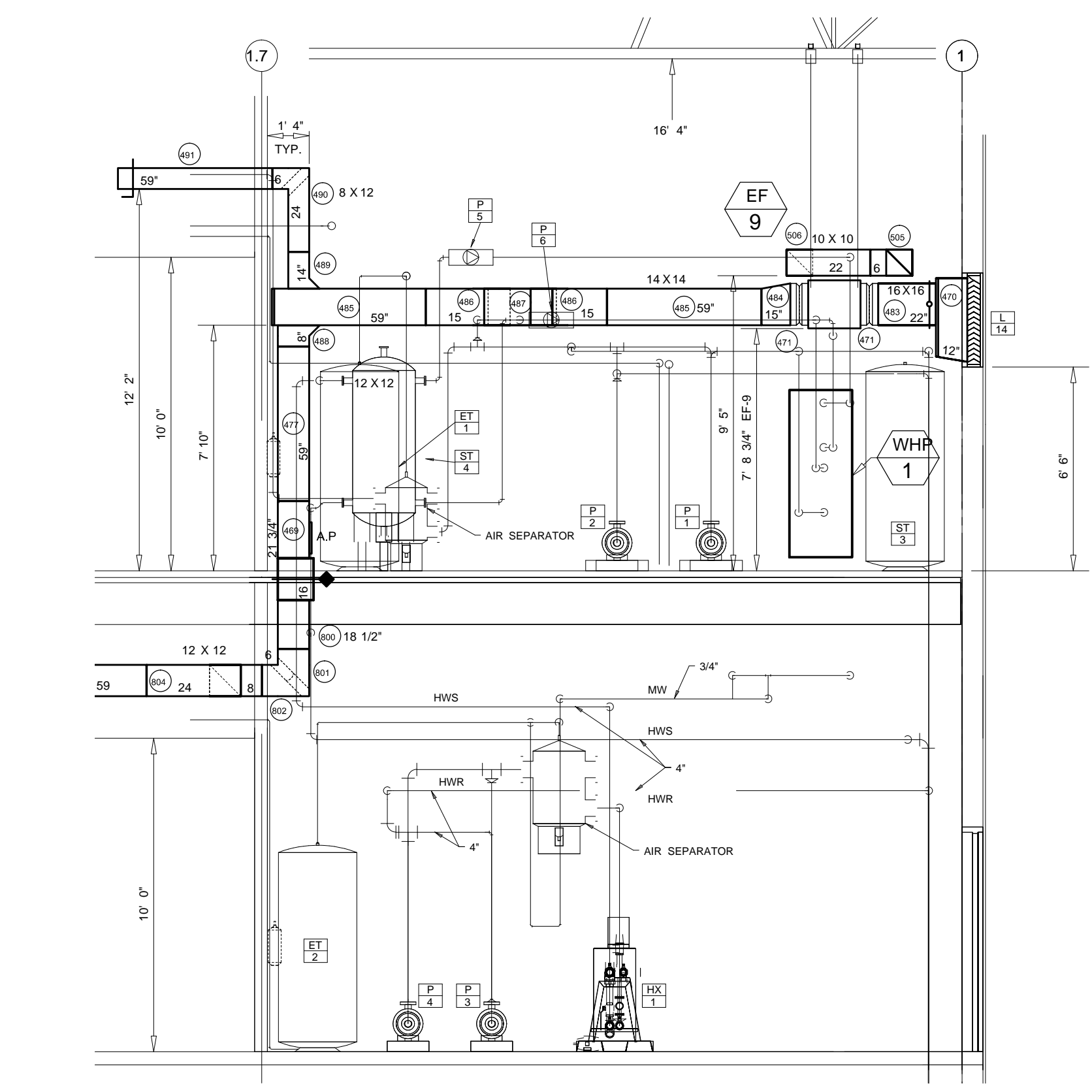
MECHANICAL ENGINEER:	SAIC	DRAWN BY:	OM/CO
		CHECKED BY:	OM/CO
 Commercial Sheetmetal Co. Inc. 94-142 LEOLELE STREET, WAIKIKI, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965			
GENERAL CONTRACTOR:		JOB NO.:	
DAWSON TECHNICAL LLC		8410	
A/C & VENTILATION SHOP DRAWING		DATE:	
		6-3-13	
29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043		SHEET:	
		M-4	
		OF	
		12	



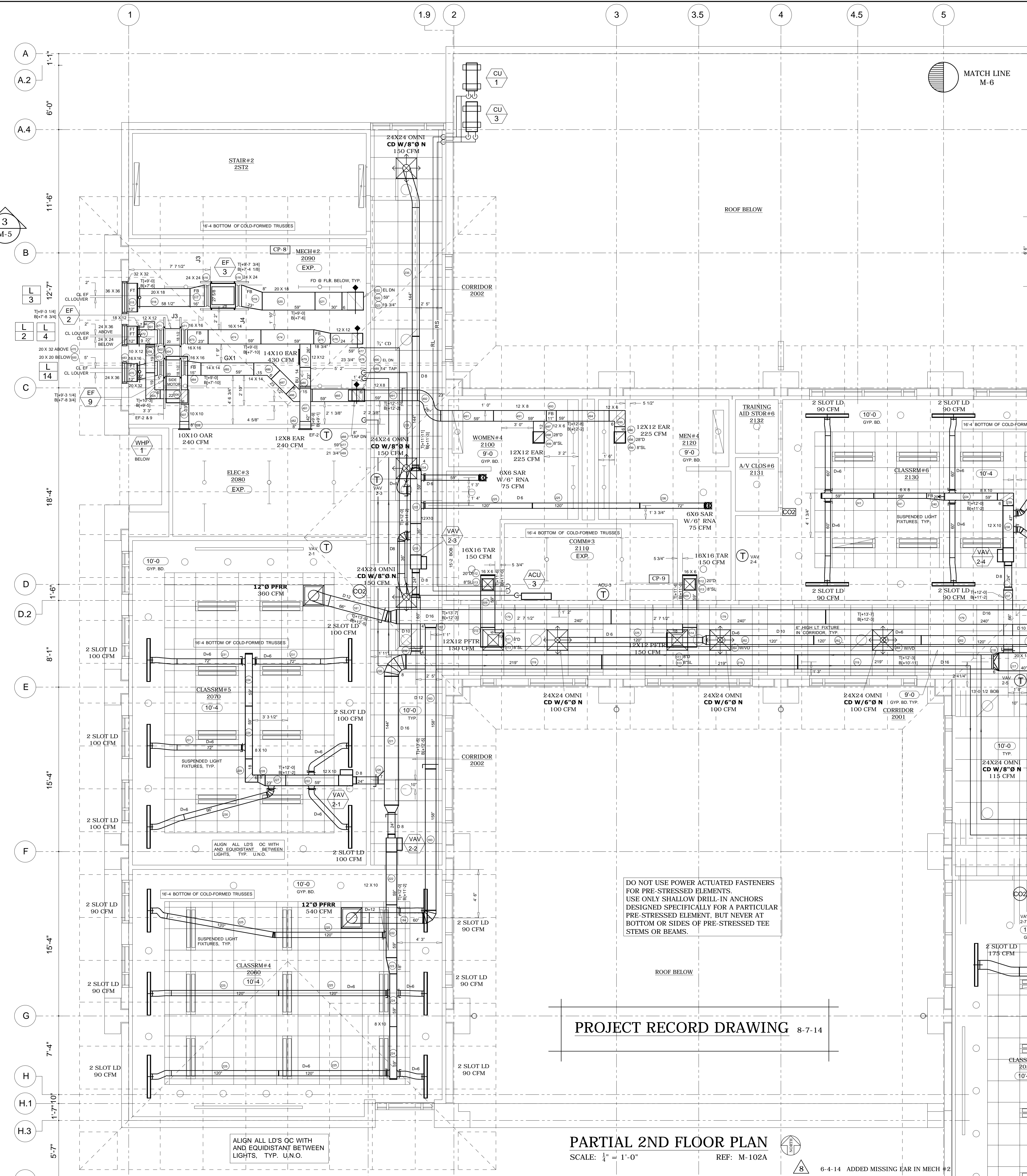
PARTIAL 2ND FLOOR MECH ROOM PIPING PLAN
SCALE: 1/4" = 1'-0" REF: 3/M-402



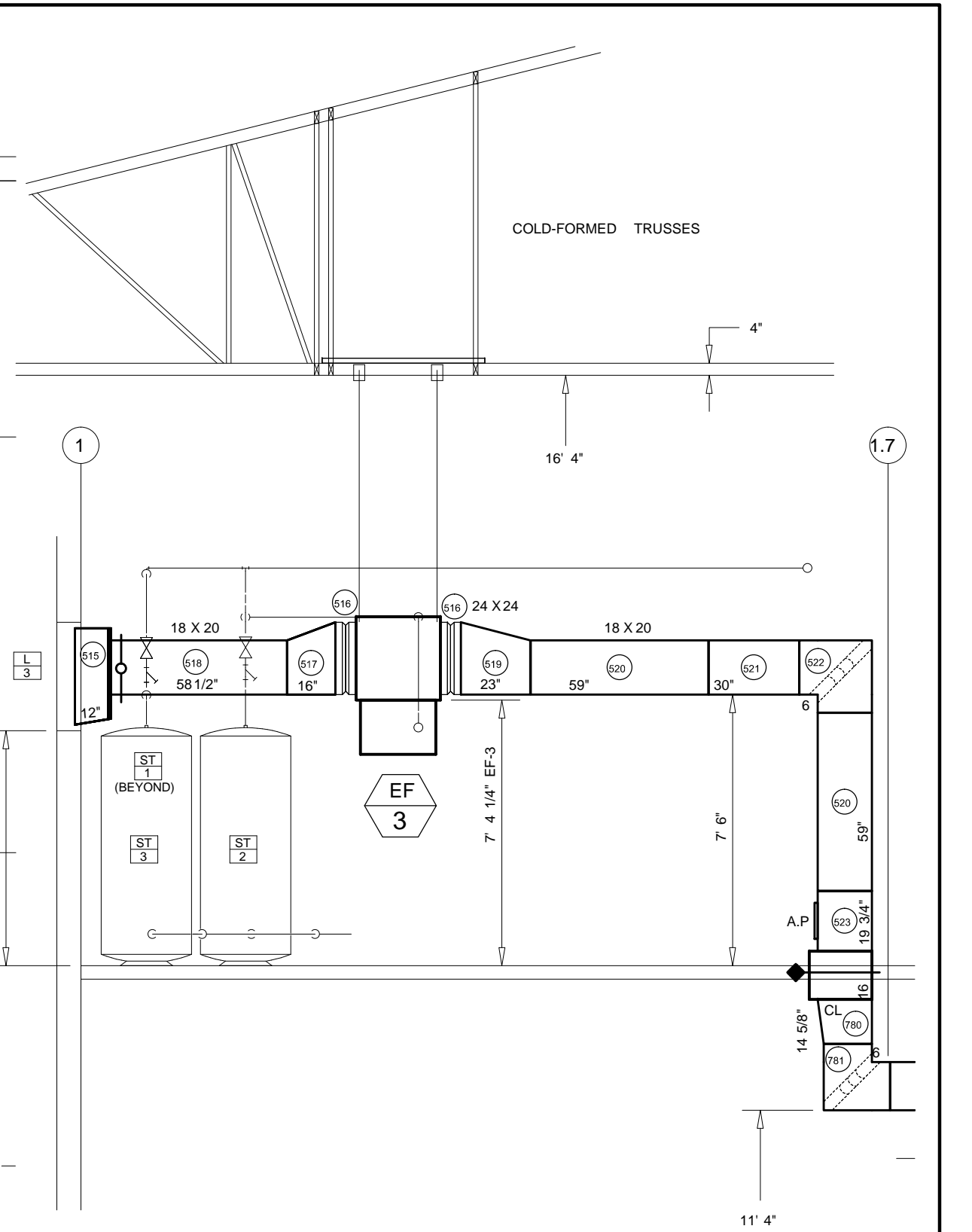
1 SECTION
M-5 SCALE: 1/4" = 1'-0" REF: NONE



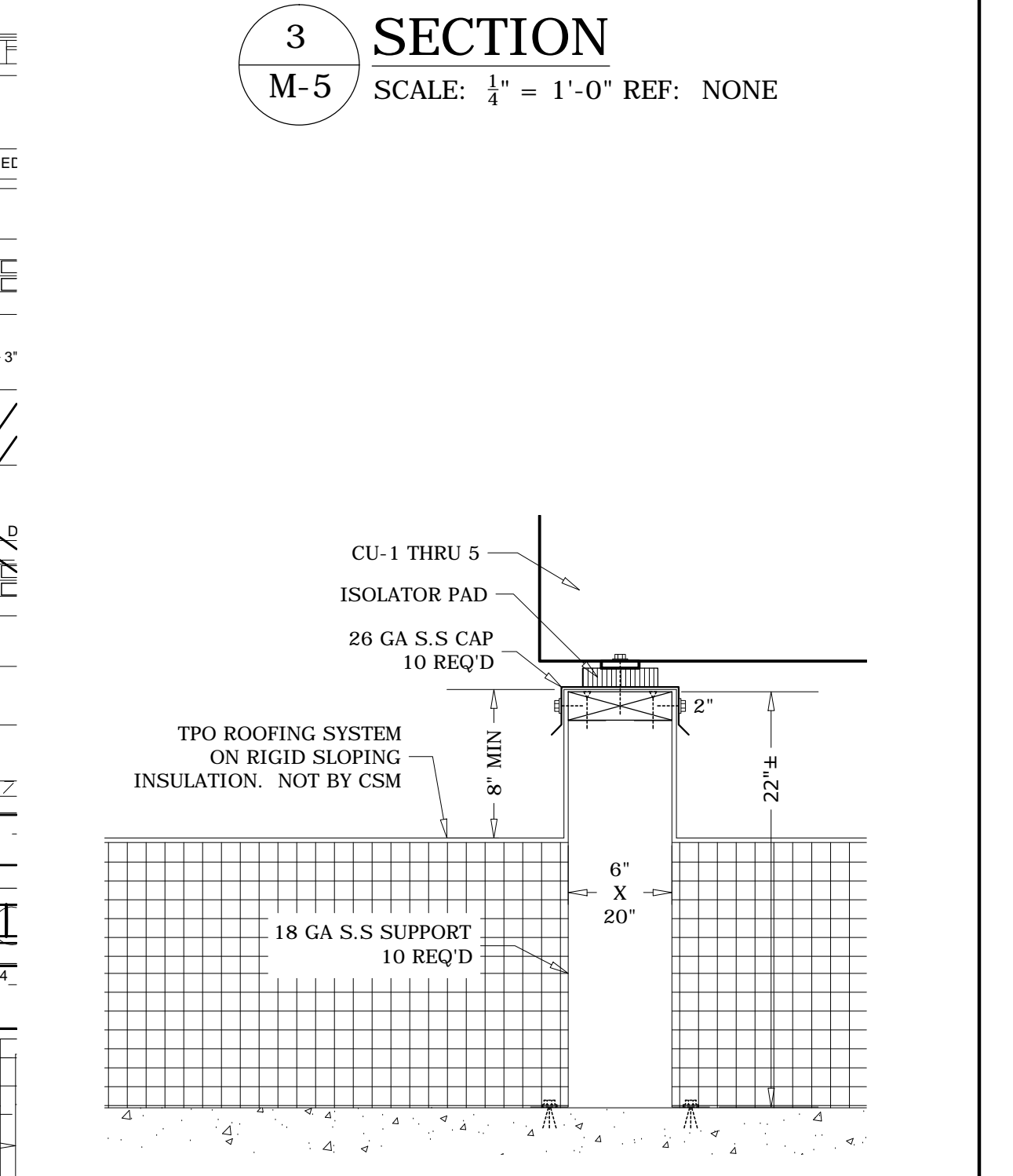
2 SECTION
M-5 SCALE: 1/4" = 1'-0" REF: NONE



PARTIAL 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-102A

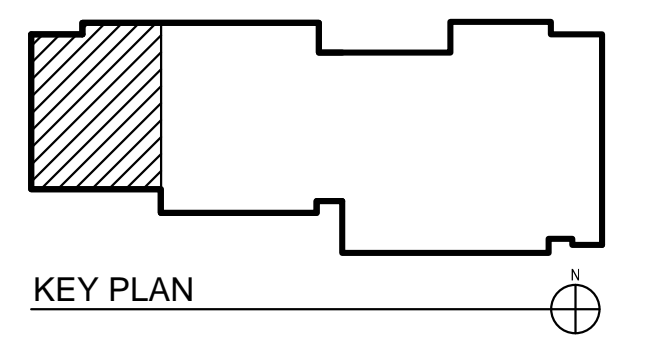


3 SECTION
M-5 SCALE: 1/4" = 1'-0" REF: NONE



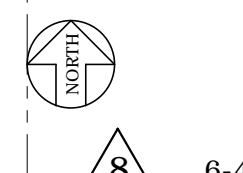
TYP CU-1 THRU 5 SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0" REF: 7/A-531

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SECOND FLOOR

PROJECT RECORD DRAWING 8-7-14

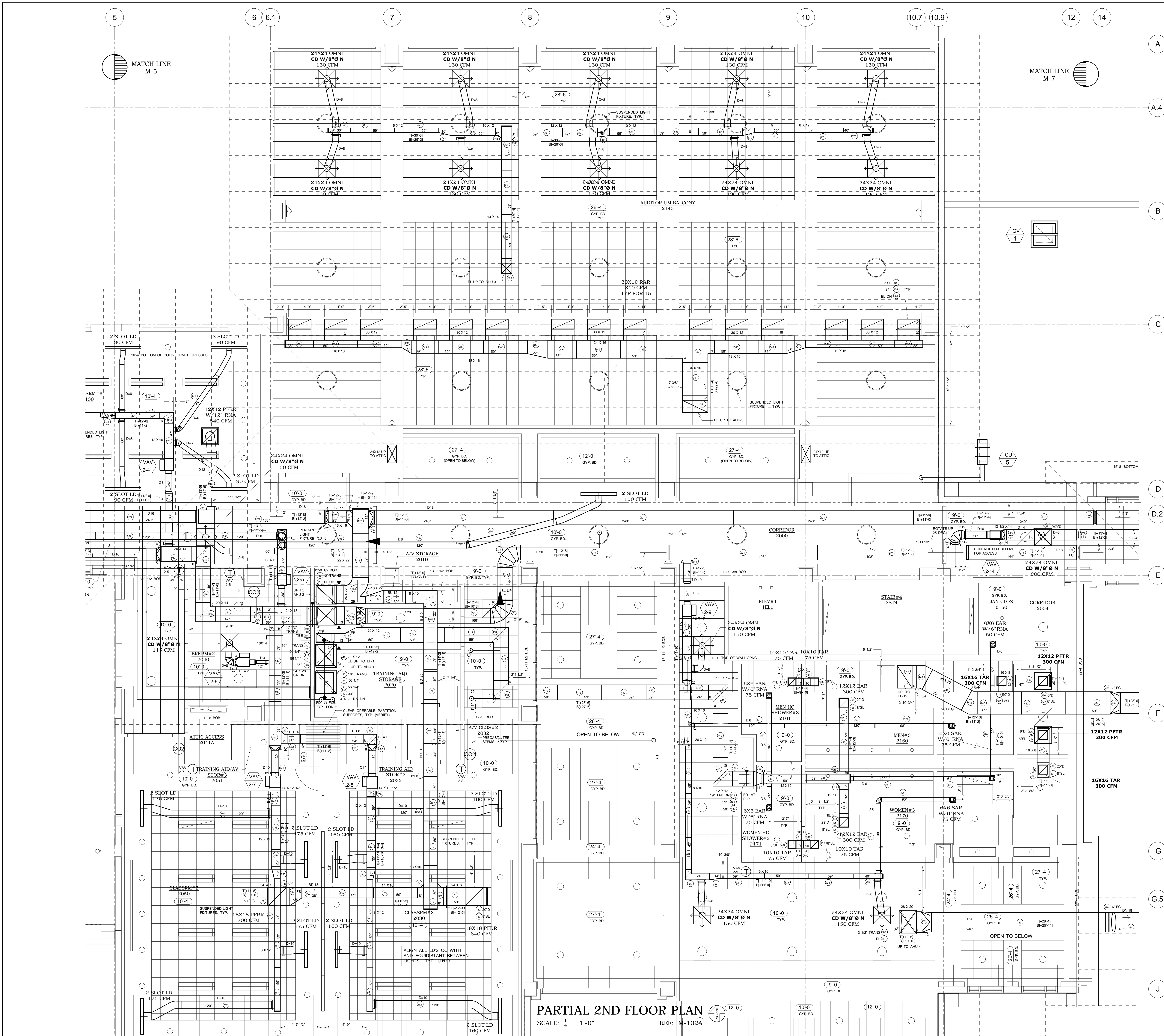


REV.	DATE	DESCRIPTION
8	6-4-14	ADDED MISSING EAR IN MECH #2
6	9-26-13	WHP-1 ROTATED 90° PER ECONOMY
1	6-4-13	CU-1 THRU 5 SUPPORT DETAIL ADDED

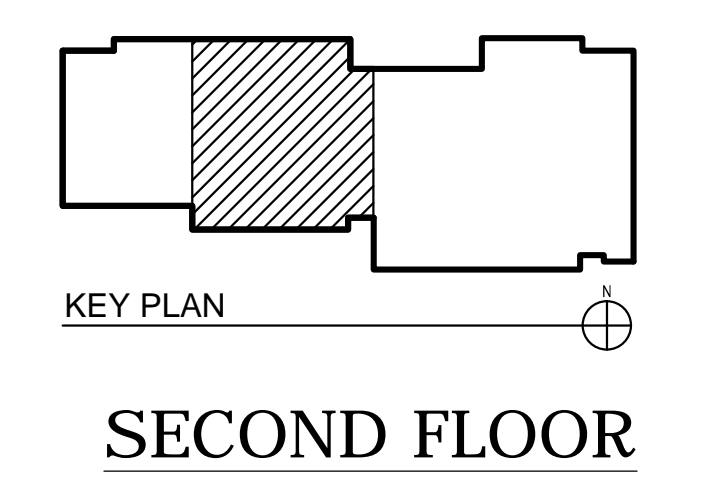
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MECHANICAL ENGINEER: SAIC		DRAWN BY: OM/CO	
GENERAL CONTRACTOR: DAWSON TECHNICAL LLC		JOB NO.: 8410	
A/C & VENTILATION SHOP DRAWING		DATE: 6-3-13	
29TH IBCT READINESS CENTER (BDE) KALAEOLO, OAHU, HAWAII HI ARNG PROJECT NO. 150043		SHEET: M-5 OF 12	





PROJECT RECORD DRAWING 8-7-14

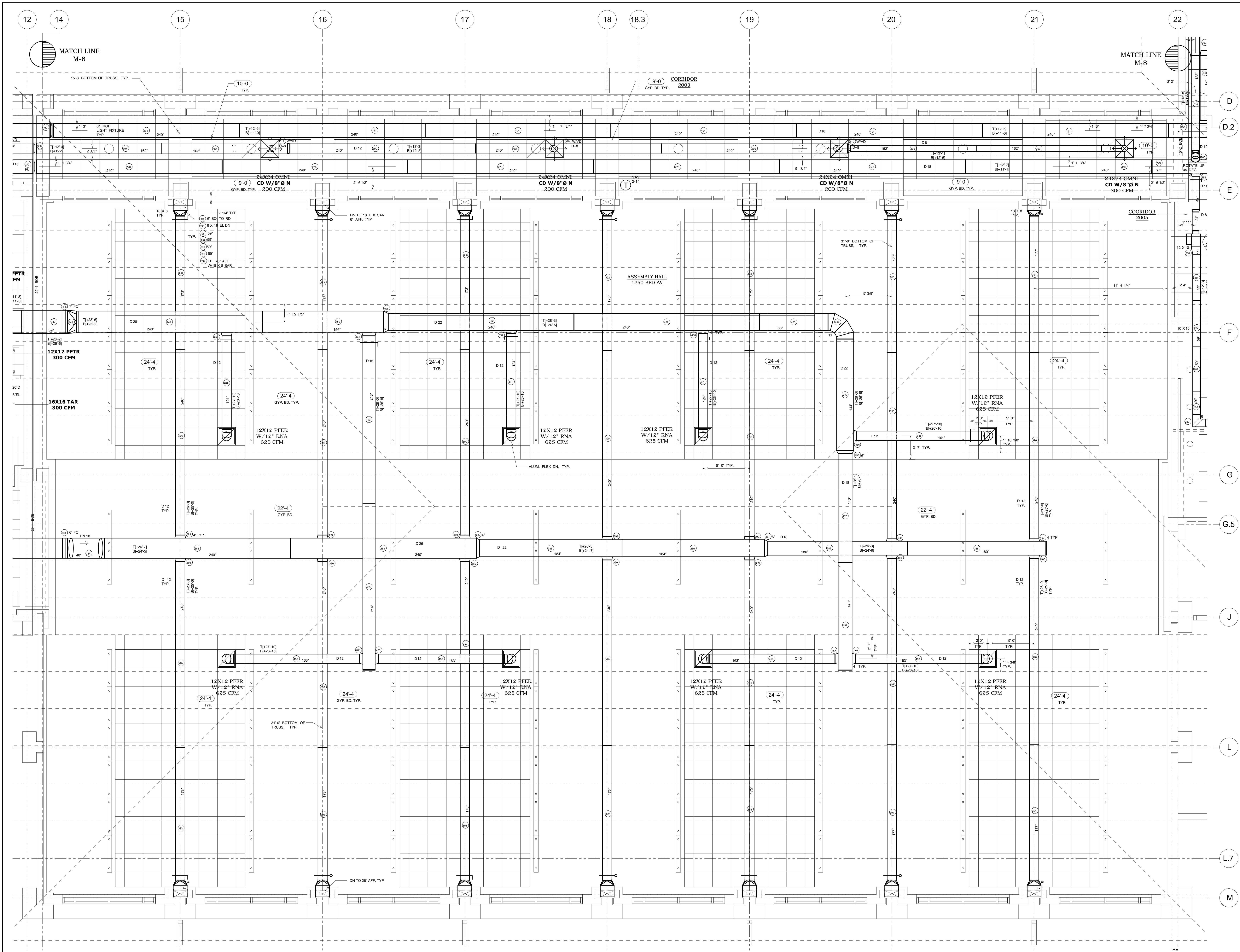


PARTIAL 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"
REF: M-102A

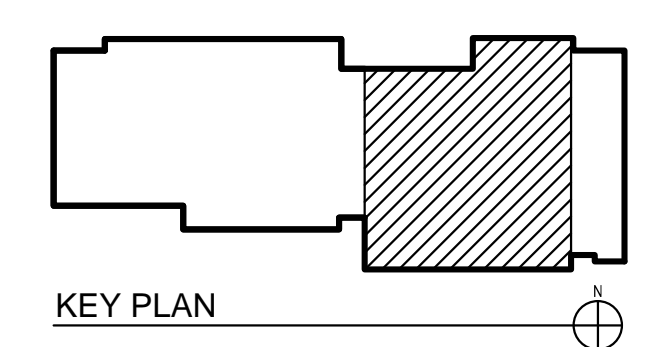
REV.	DATE	DESCRIPTION
2	7-10-13	DUCT MODIFIED TO CLEAR PIPING.

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Mechanical Engineer:	SAIC	Drawn by:	OM/CO
General Contractor:	DAWSON TECHNICAL LLC	Job No.:	8410
	A/C & VENTILATION SHOP DRAWING	Date:	6-3-13
	29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	Sheet:	M-6 OF 12




D
D.2
E
F
G
G.5
J
L
L.7
M



SECOND FLOOR

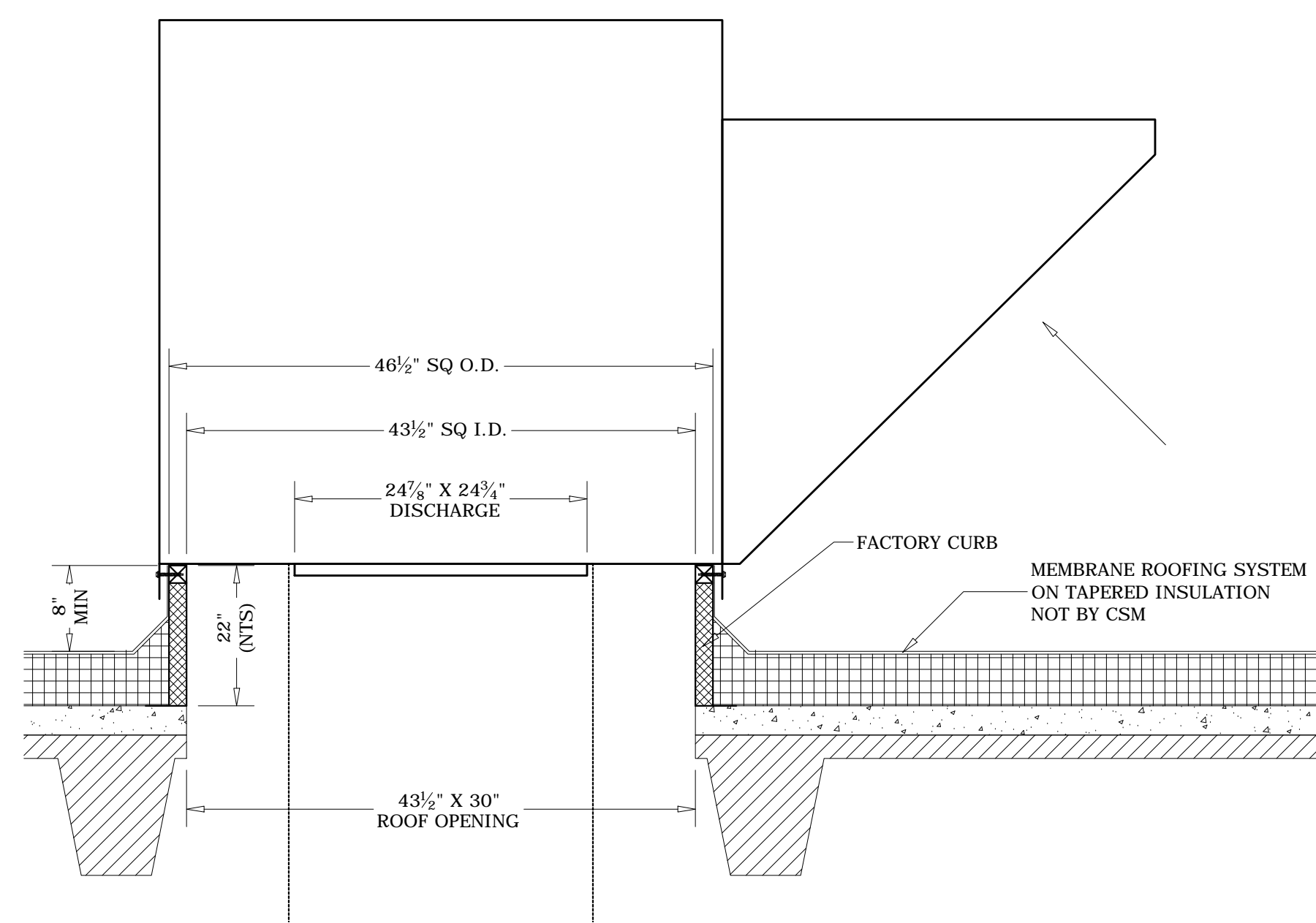
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MECHANICAL ENGINEER:	SAIC	DESIGNED BY:	OM
		DRAWN BY:	OM/CO
 Commercial Sheetmetal Co. Inc. 94-142 LEOLELE STREET, WAIKANAHE, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965		GENERAL CONTRACTOR: DAWSON TECHNICAL LLC DATE: 6-3-13	
SHEET M-7 OF 12			JOB NO. 8410
29TH IBCT READINESS CENTER (BDE) KALAHELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043			

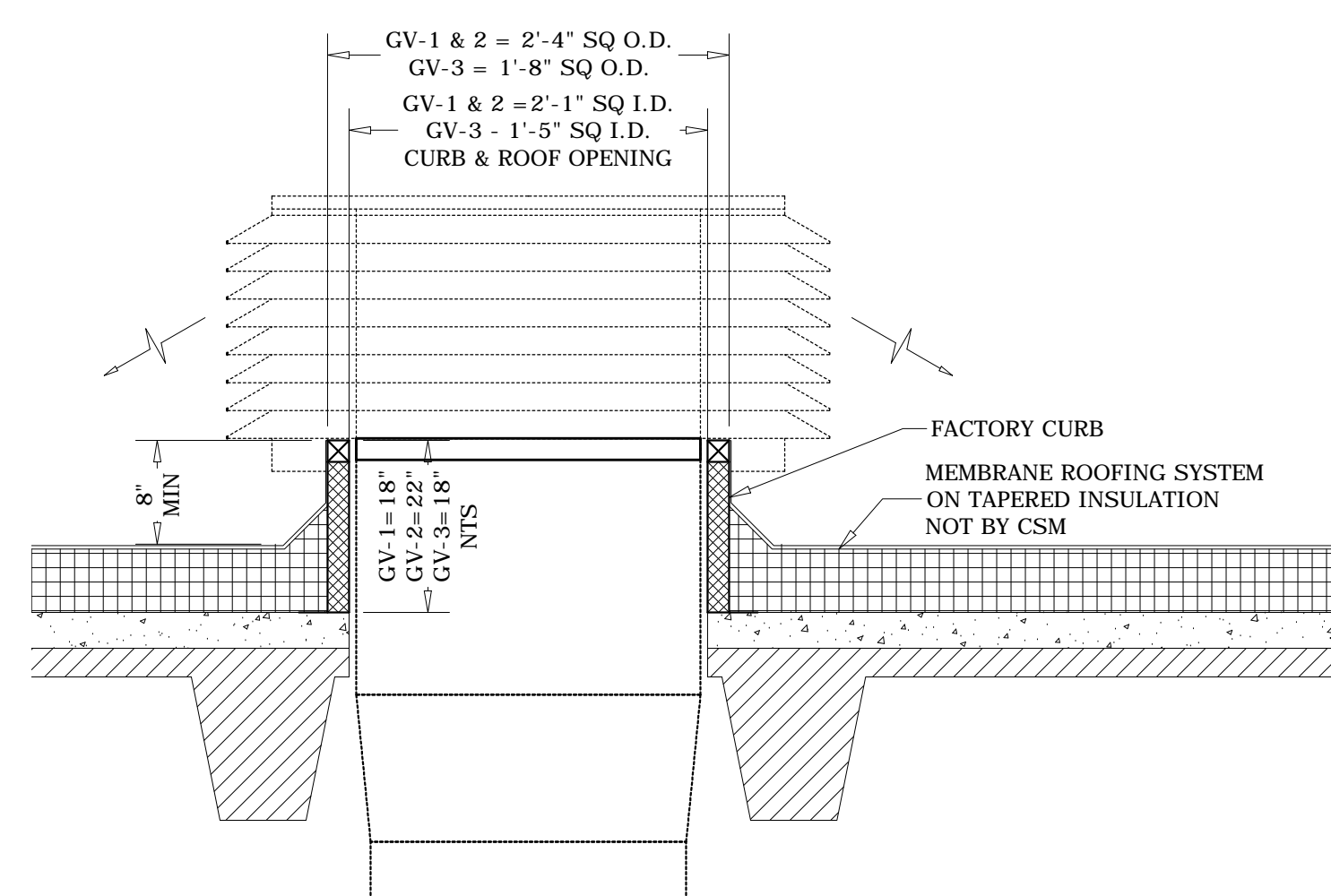
PARTIAL 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-102B

PROJECT RECORD DRAWING 8-7-14

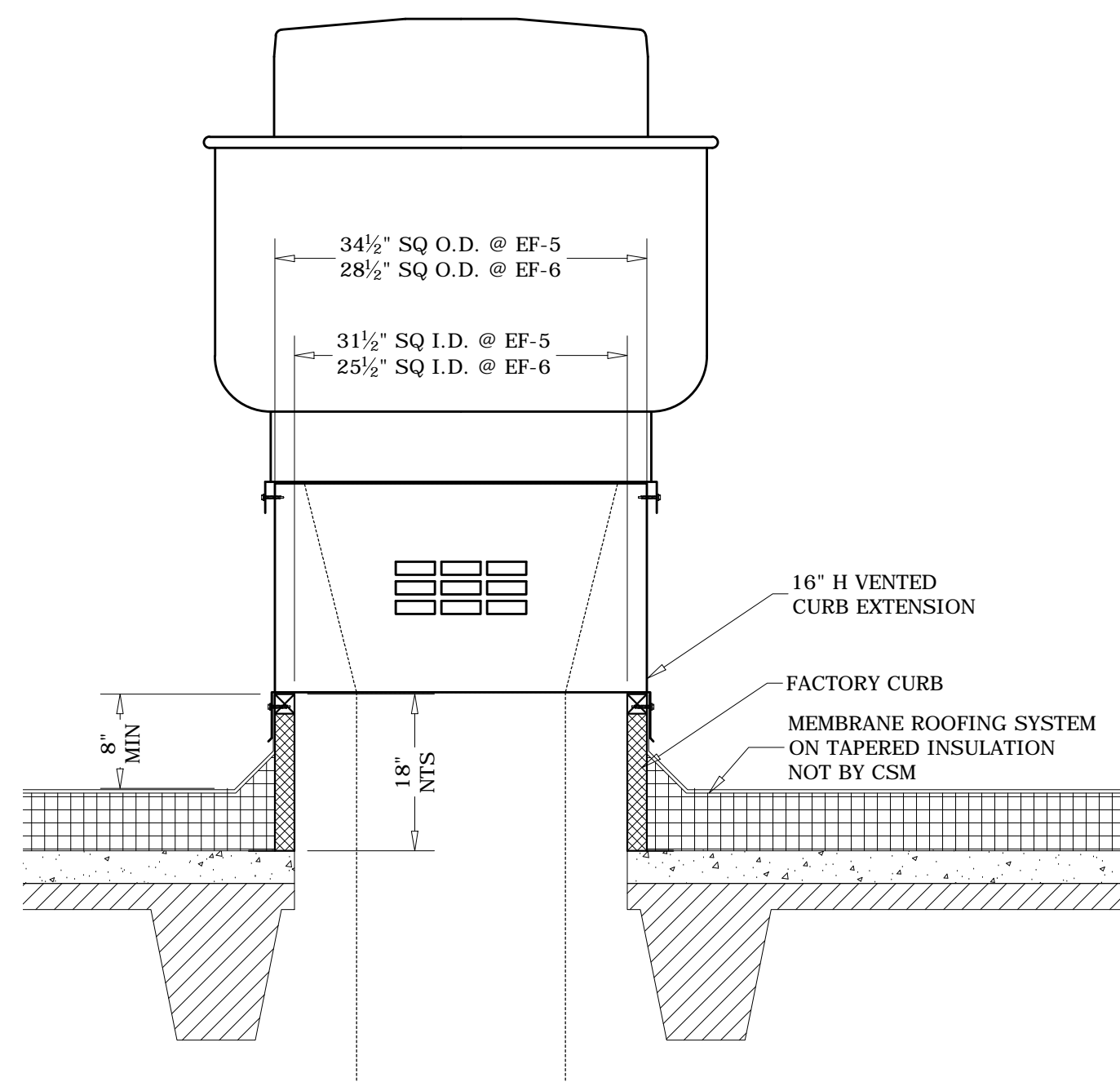
REV.	DATE	DESCRIPTION



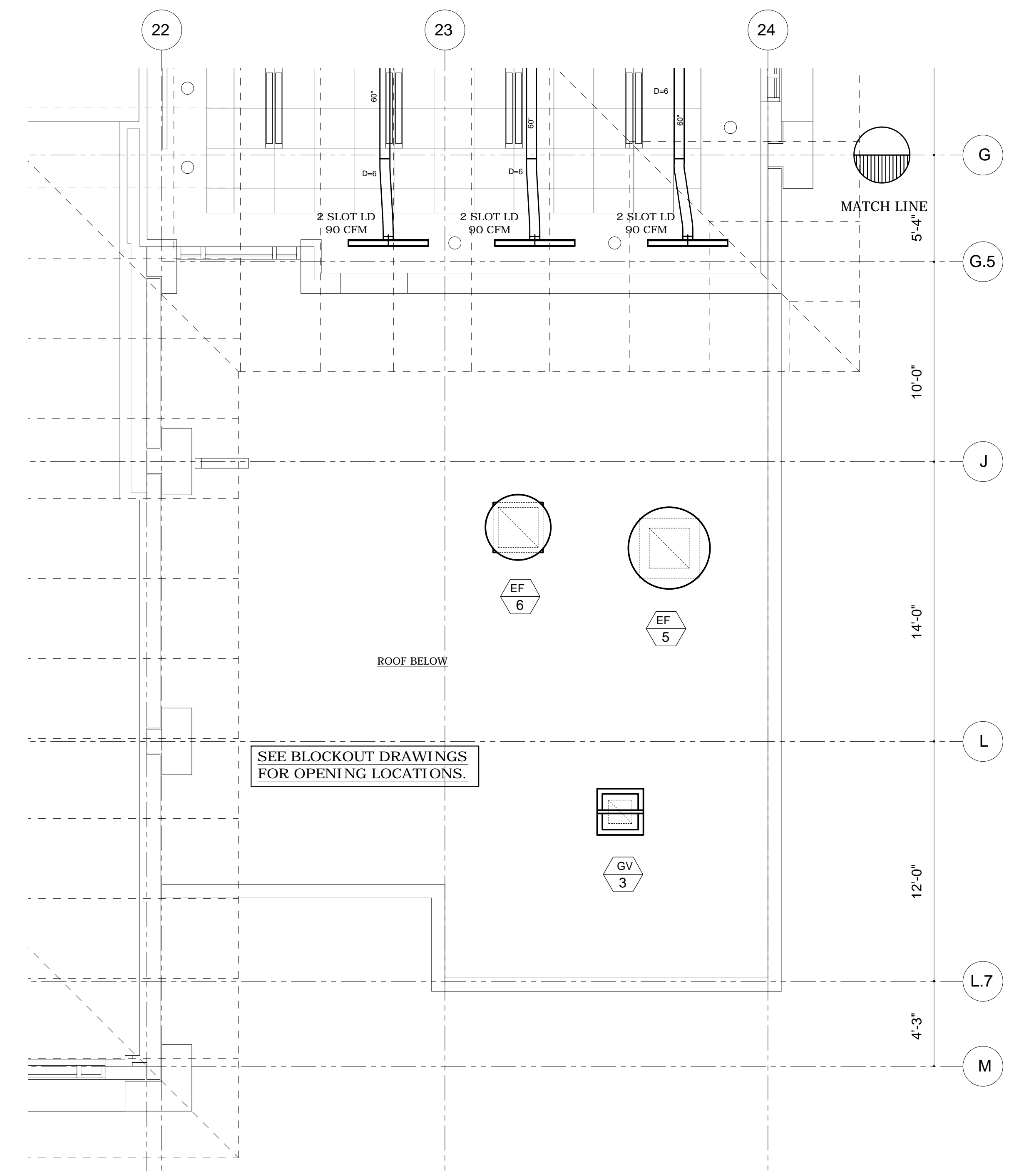
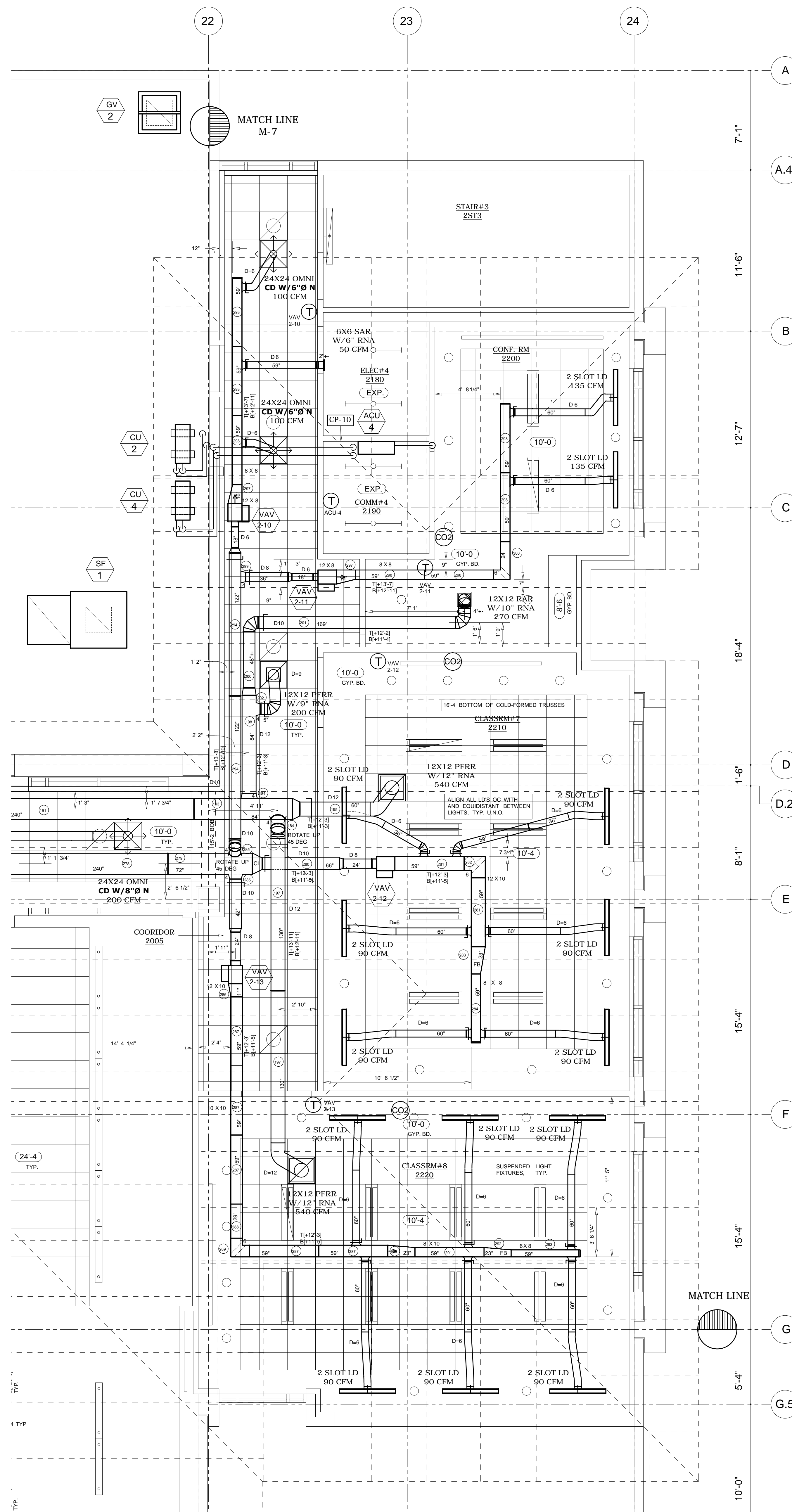
SF-1 MOUNTING DETAIL
SCALE: 1" = 1'-0" REF: NONE



TYP GV-1 & 2 MOUNTING DETAIL
SCALE: 1" = 1'-0" REF: NONE

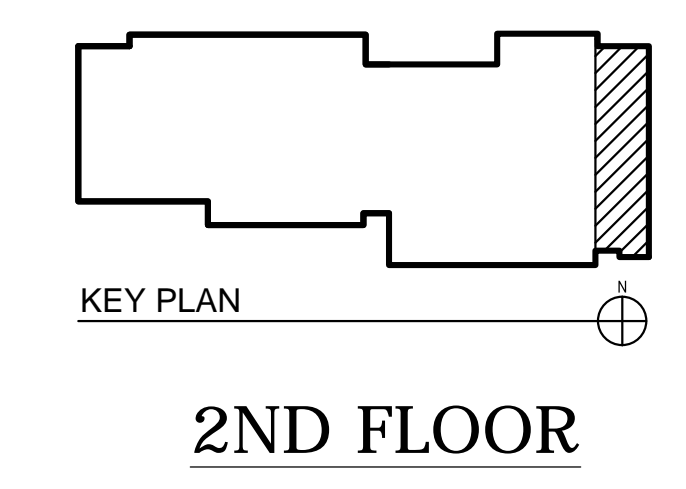


TYP EF-5 & 6 MOUNTING DETAIL
SCALE: 1" = 1'-0" REF: 7/M-503



PARTIAL 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-102B

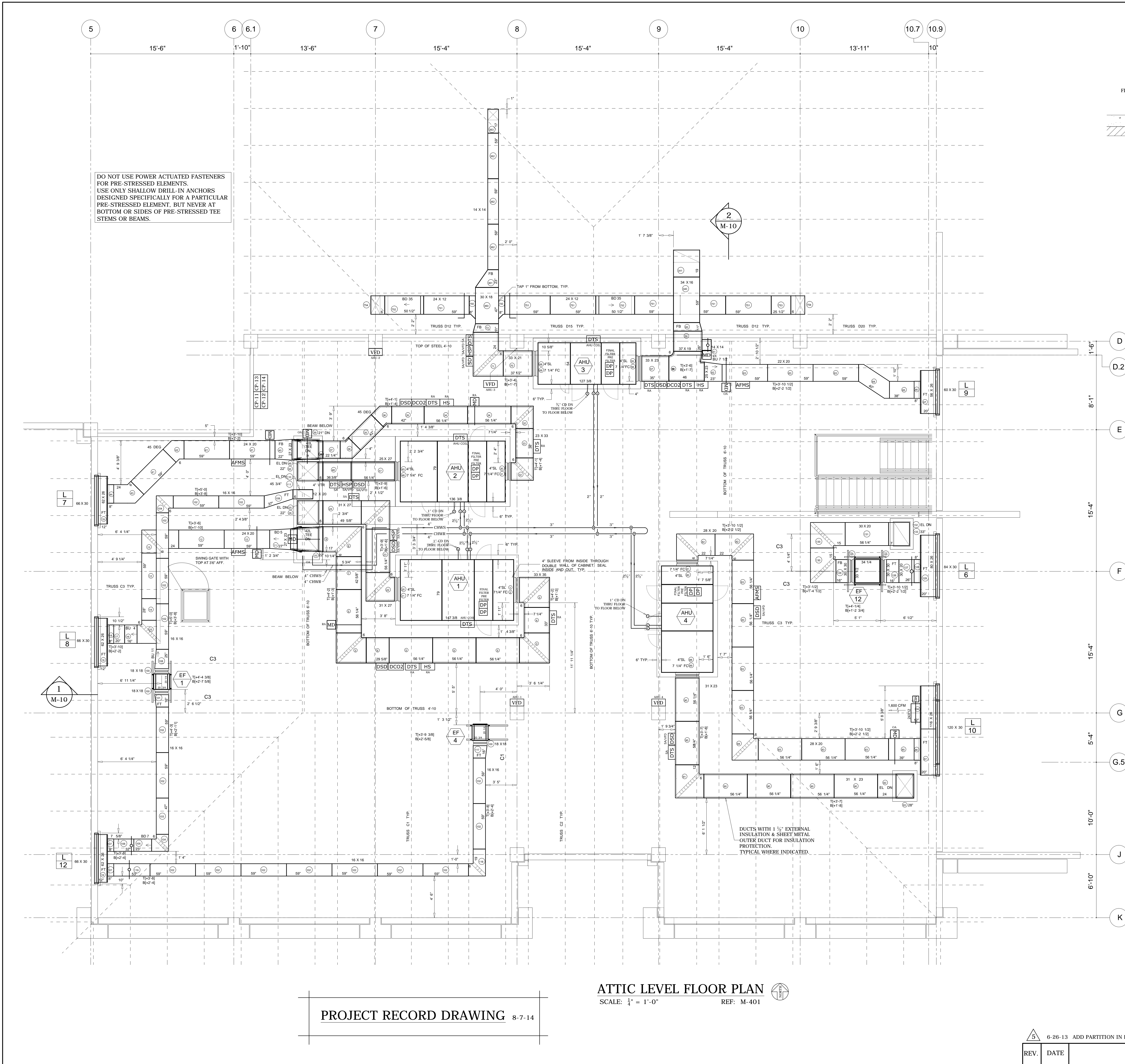
PROJECT RECORD DRAWING 8-7-14



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MECHANICAL ENGINEER:	SAIC	DRAWN BY:	OM/CO
		CHECKED BY:	OM/CO
		Commercial Sheetmetal Co., Inc 94-142 LEOLELO STREET, WAIKIKI, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965	
GENERAL CONTRACTOR:	DAWSON TECHNICAL LLC	JOB NO.:	8410
	A/C & VENTILATION SHOP DRAWING	DATE:	6-3-13
	29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET:	M-8 OF 12

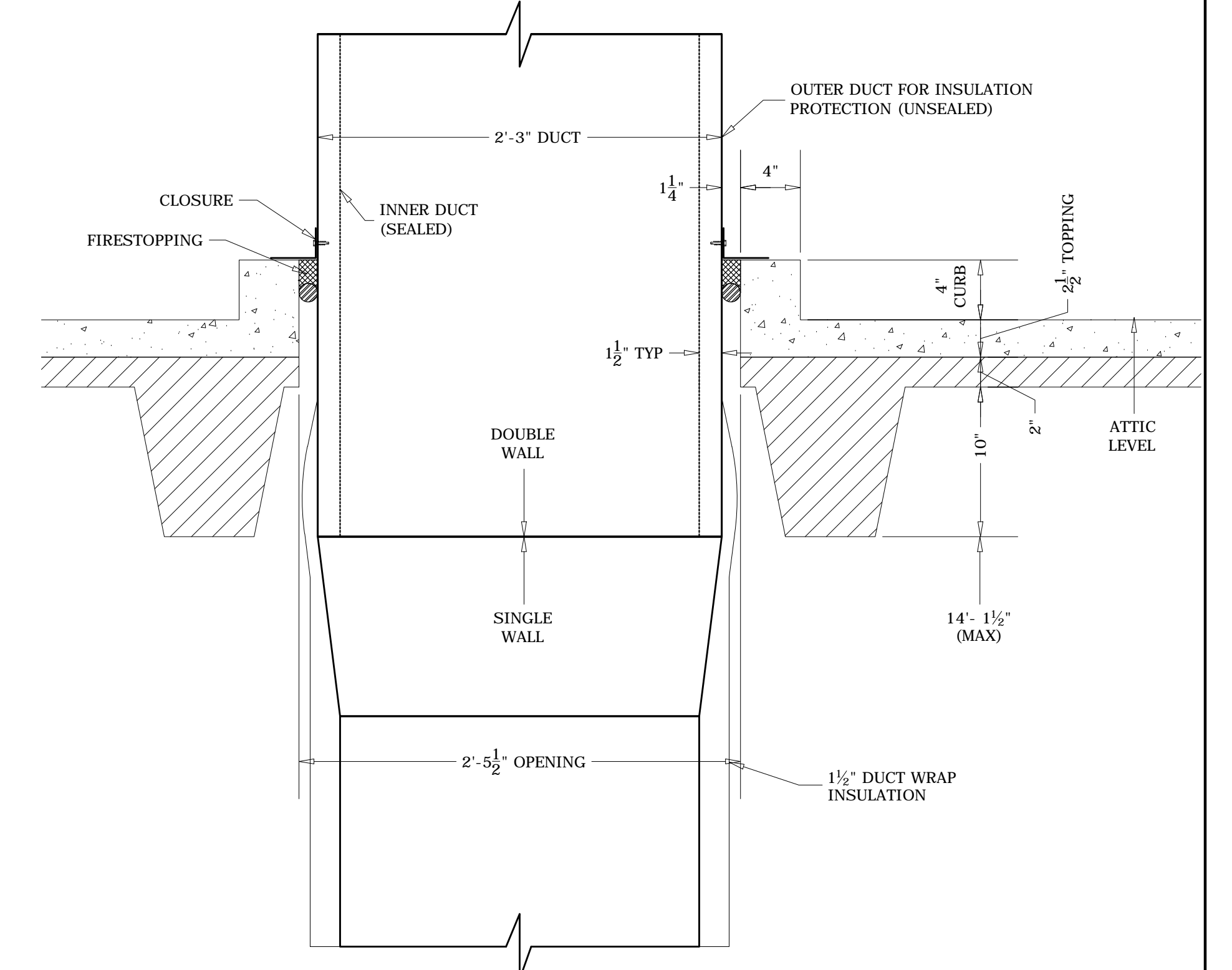
REV.	DATE	DESCRIPTION



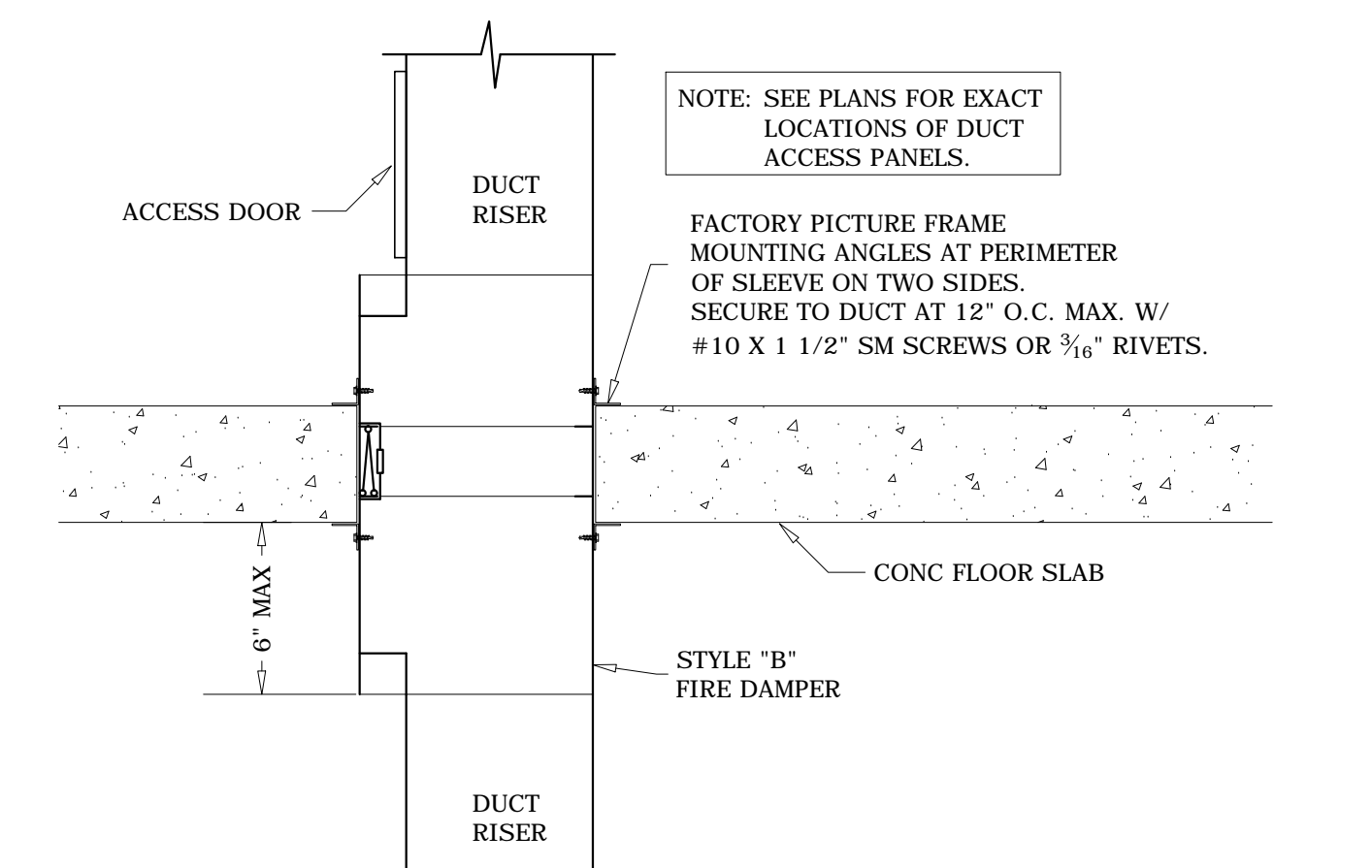
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ATTIC LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: M-401

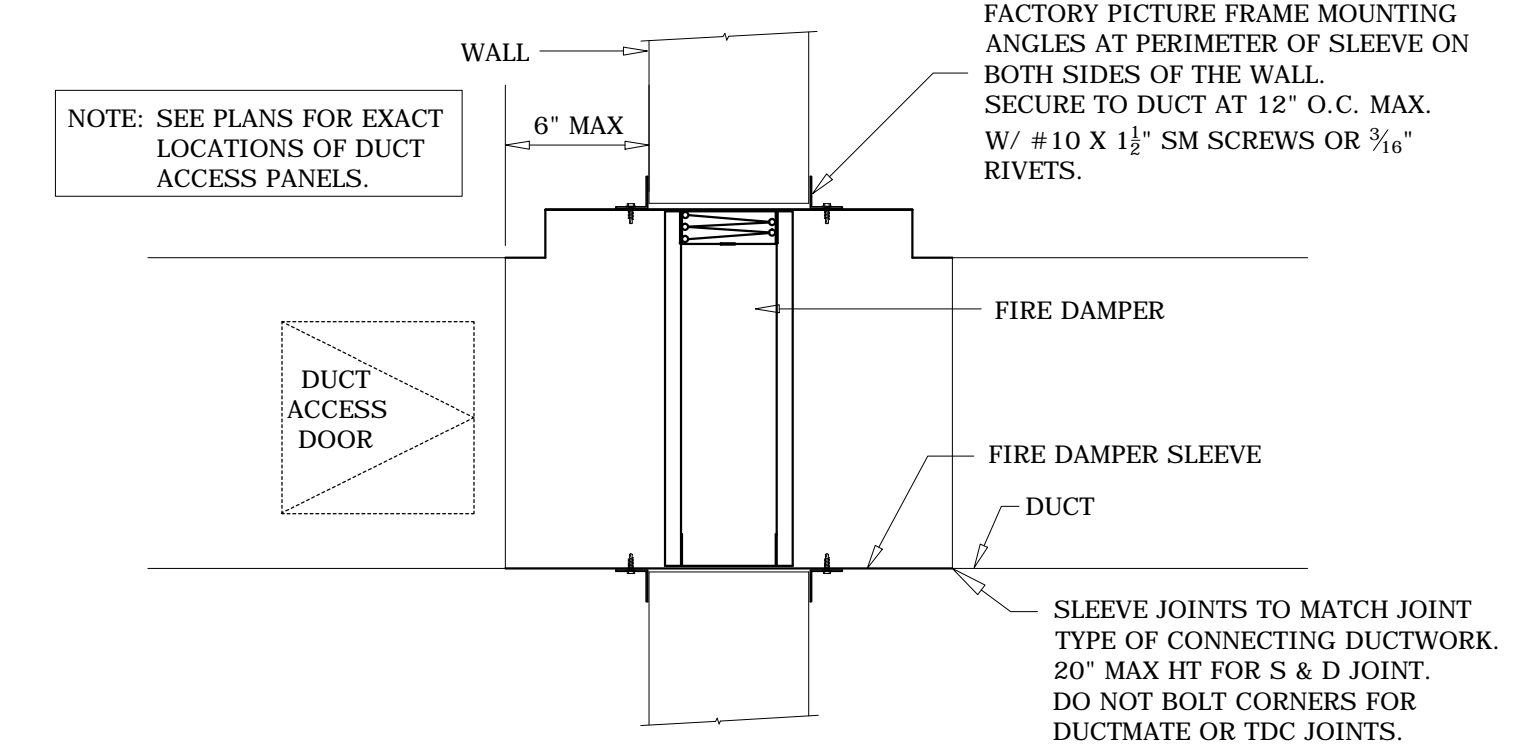
PROJECT RECORD DRAWING 8-7-14



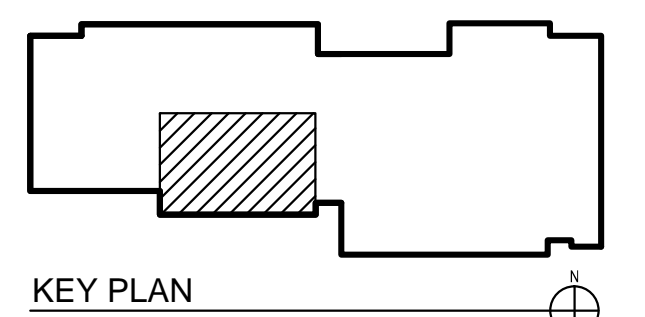
AHU-1 & 2 DUCT THRU CURB DETAIL
(AHU-4 & EF-12 SIMILAR)
SCALE: 1 1/2" = 1'-0" REF: NONE



TYP HORIZONTAL FIRE DAMPER DETAIL
SCALE: 1 1/2" = 1'-0" REF: 5/M-501




TYP VERTICAL FIRE DAMPER DETAIL
SCALE: 1 1/2" = 1'-0" REF: 5/M-501

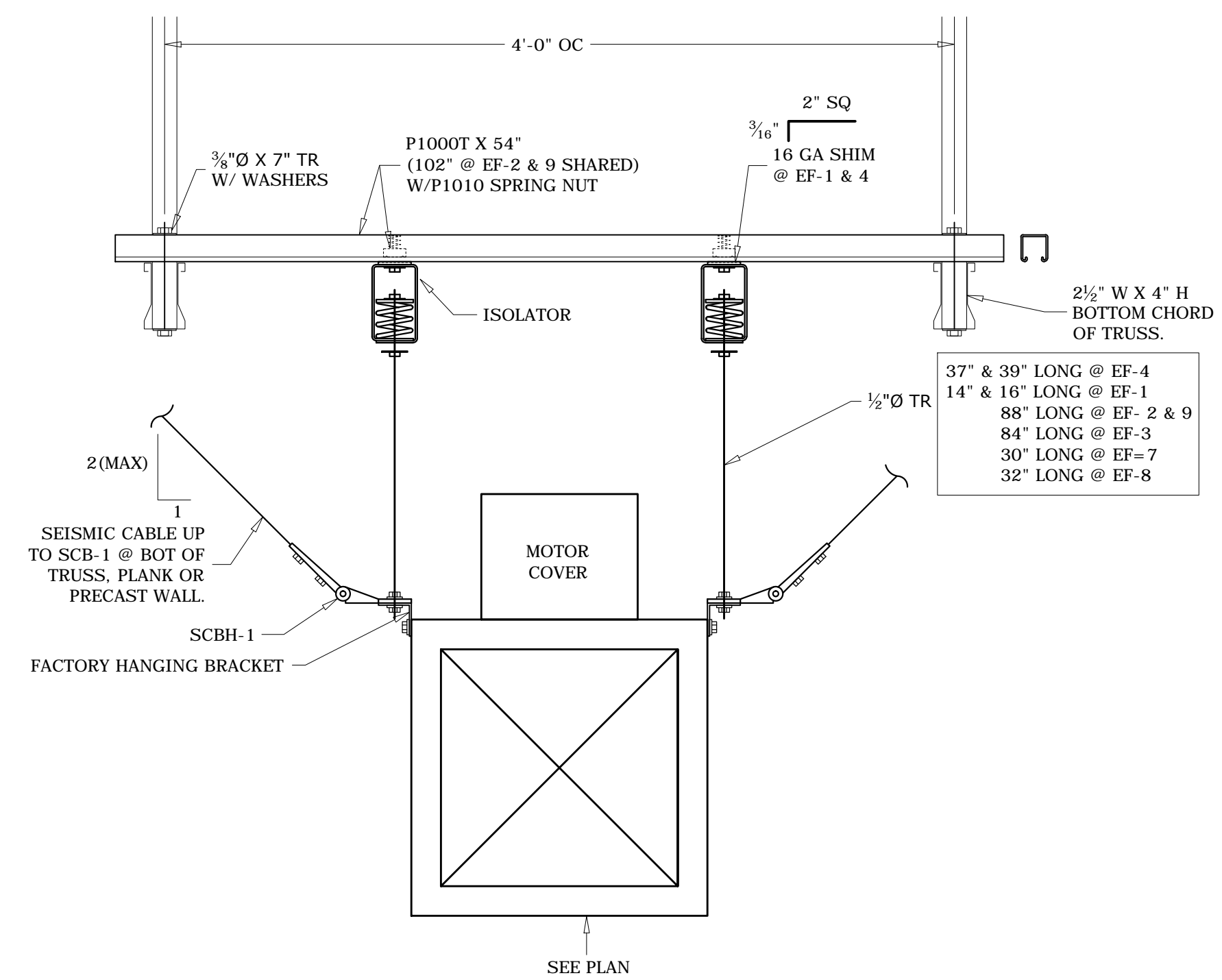


ATTIC LEVEL
APPROVED DRAWING 5-2-13

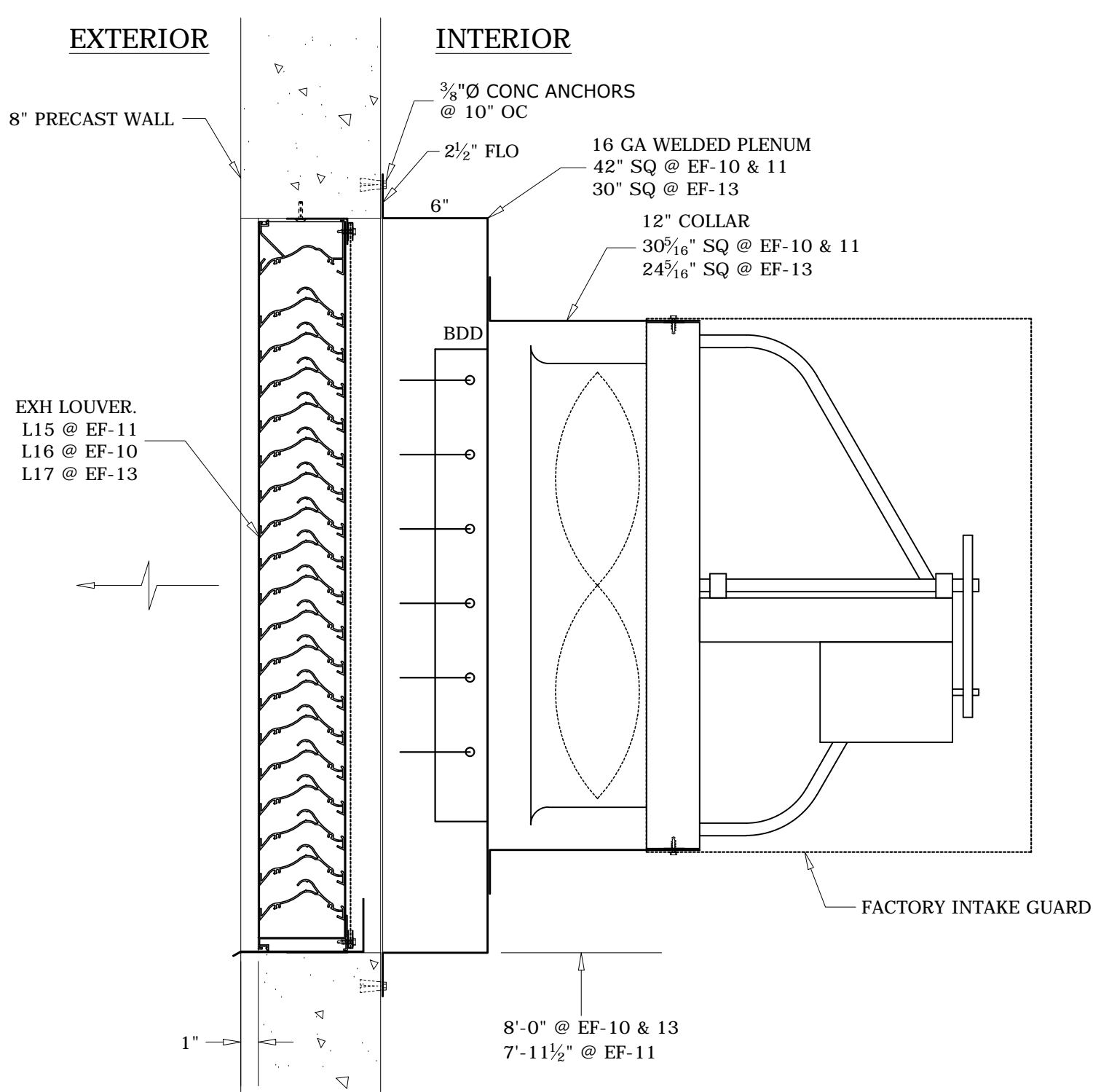
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MECHANICAL ENGINEER:	SAIC	DETAILED BY:	OM
		DRAWN BY:	OM/CO
 Commercial Sheetmetal Co., Inc. 94-142 LEOLELE STREET, WAIKIKII, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965			
GENERAL CONTRACTOR:	DAWSON TECHNICAL LLC	JOB NO.:	8410
	A/C & VENTILATION SHOP DRAWING	DATE:	6-3-13
	29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET:	M-9 OF 12

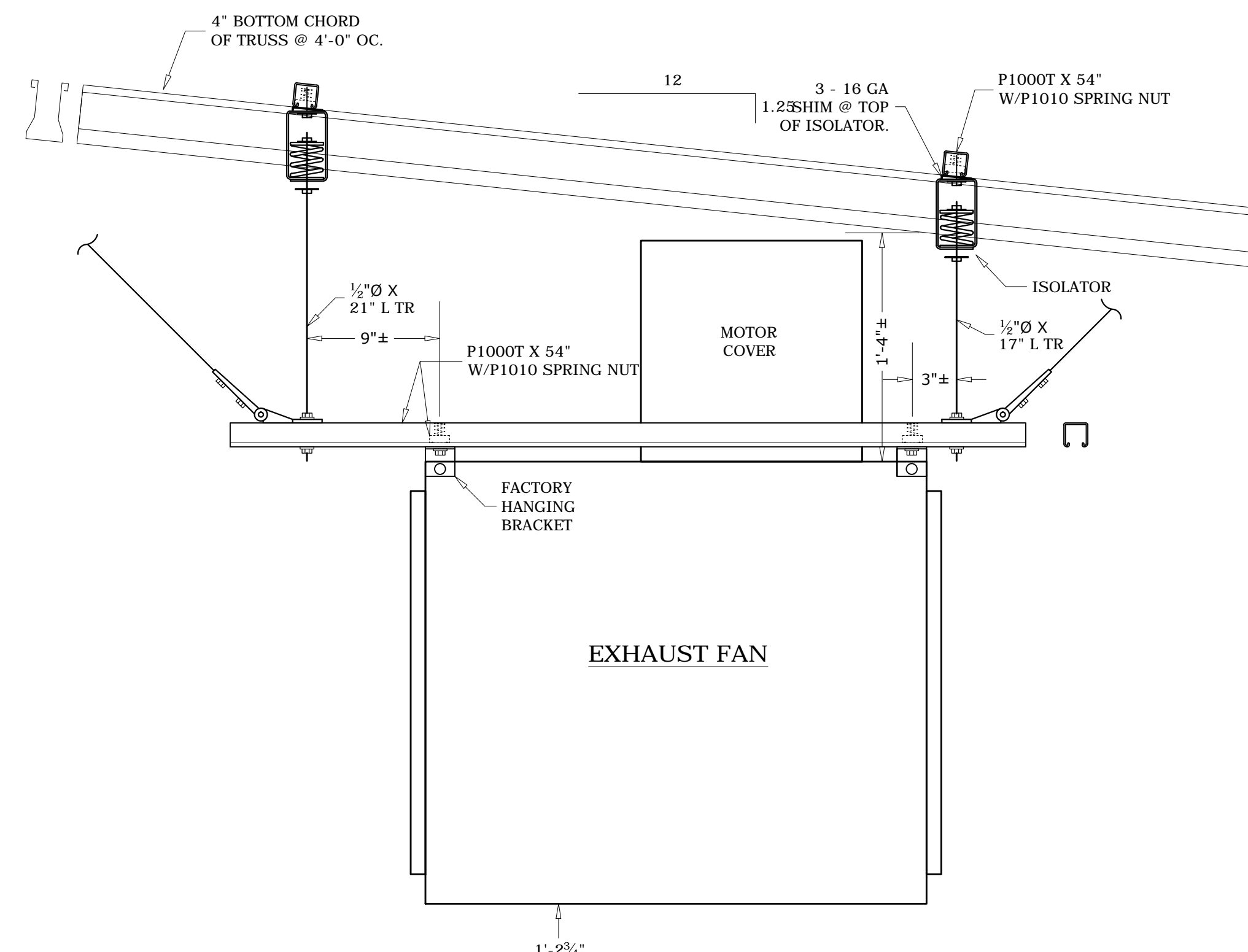
REV.	DATE	DESCRIPTION
5	6-26-13	ADD PARTITION IN PLENUM BEHIND L-10.



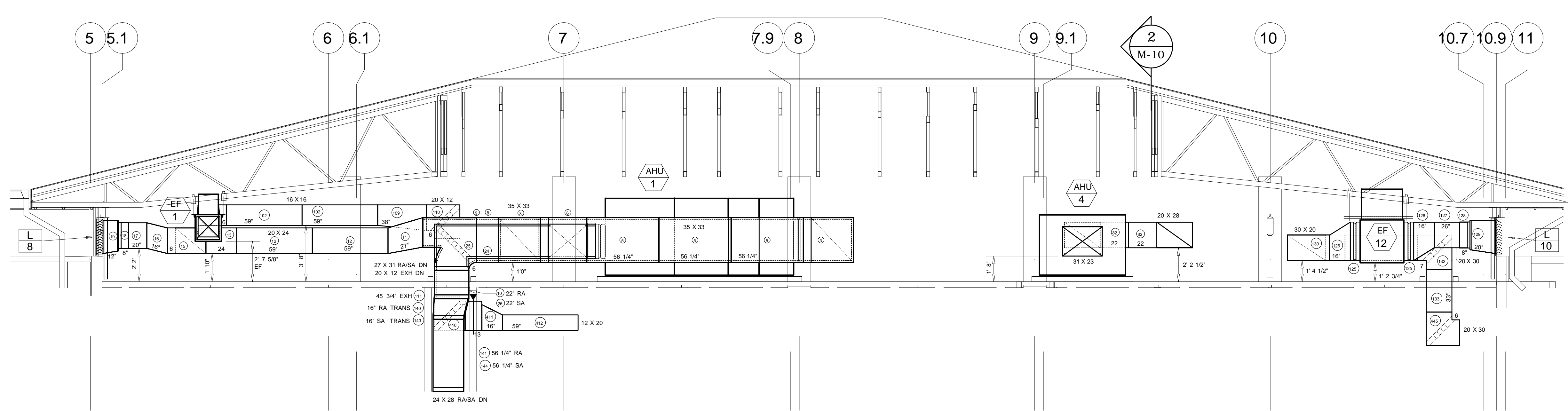
EF-4 HANGING DETAIL
(EF-1, 2, 3 & 9 SIMILAR)
(EF-7 & 8 SIM EXCEPT PRECAST PLANK)
SCALE: 1 1/2" = 1'-0" REF: 1/M-502



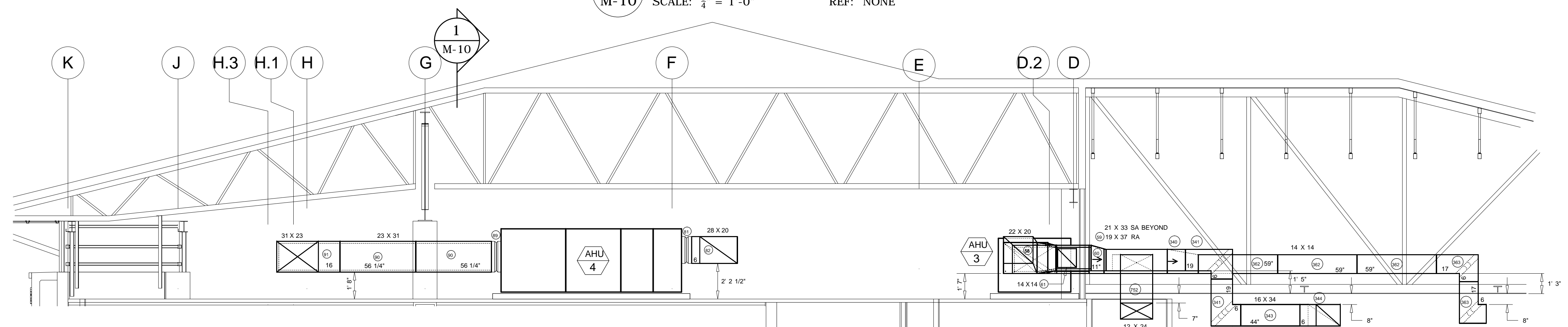
TYP EF-10, 11 & 13 MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0" REF: 8/M-501



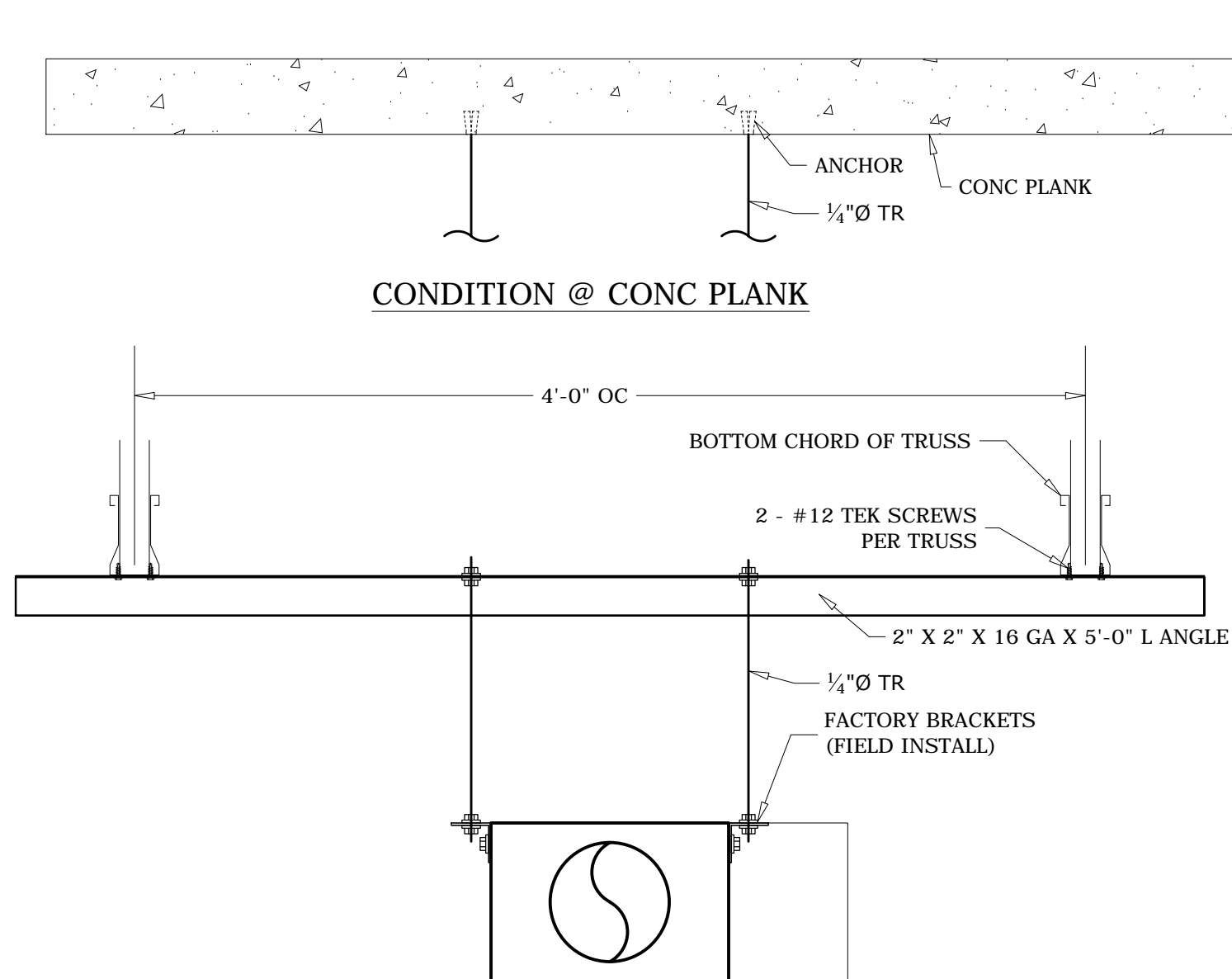
EF-12 HANGING DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/M-502



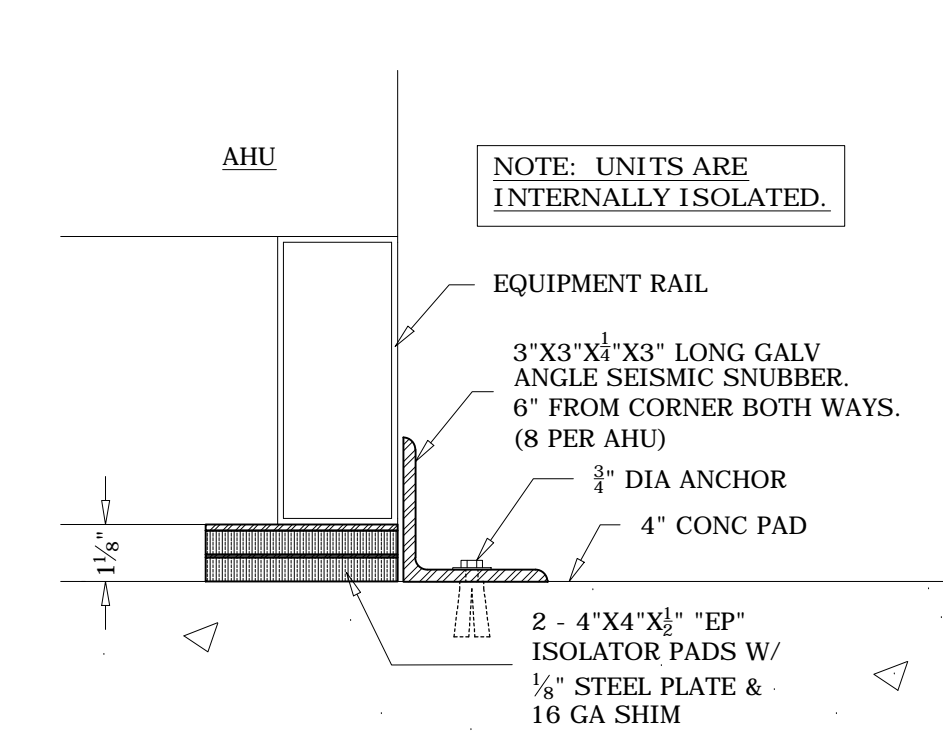
SECTION THRU ATTIC
M-10 SCALE: 1/4" = 1'-0" REF: NONE



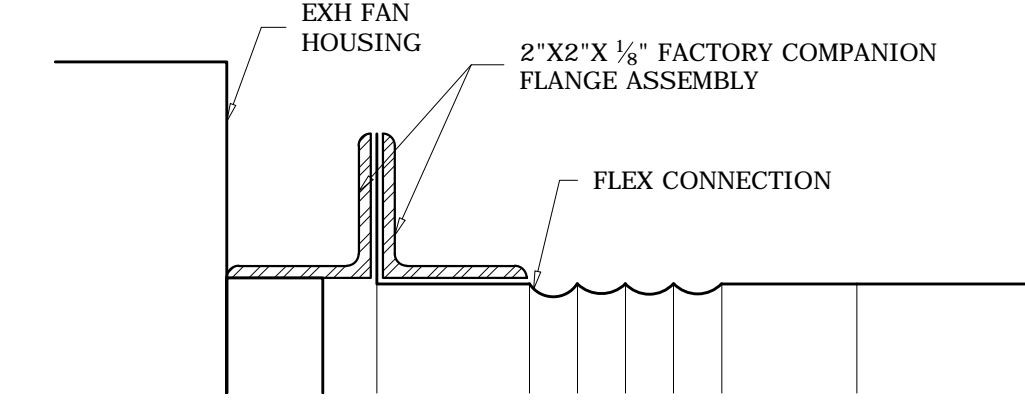
SECTION THRU ATTIC
M-10 SCALE: 1/4" = 1'-0" REF: NONE



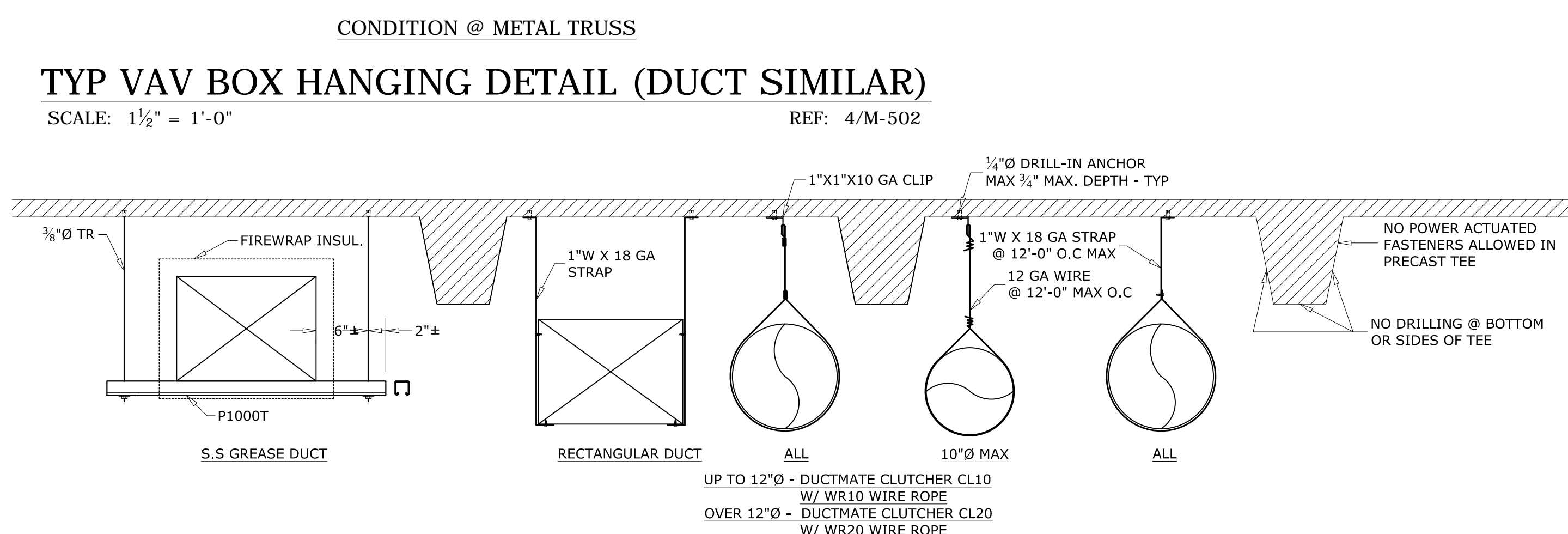
TYP SEISMIC BRACING PLAN
SCALE: 1" = 1'-0" REF: 2/M-502



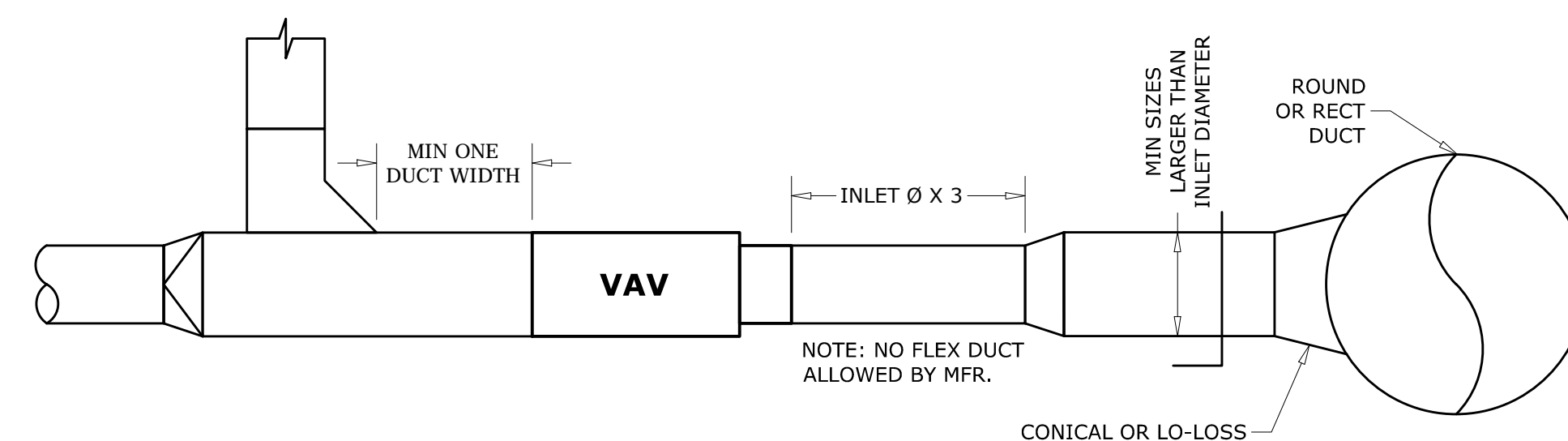
TYP AHU MOUNTING DETAIL
SCALE: 3" = 1'-0" REF: NONE



TYP COMPANION FLANGE JOINT AT EXH FANS
SCALE: 1/2" = 1" REF: NONE



TYP DUCT HANGING DETAILS
SCALE: 1" = 1'-0" REF: NONE



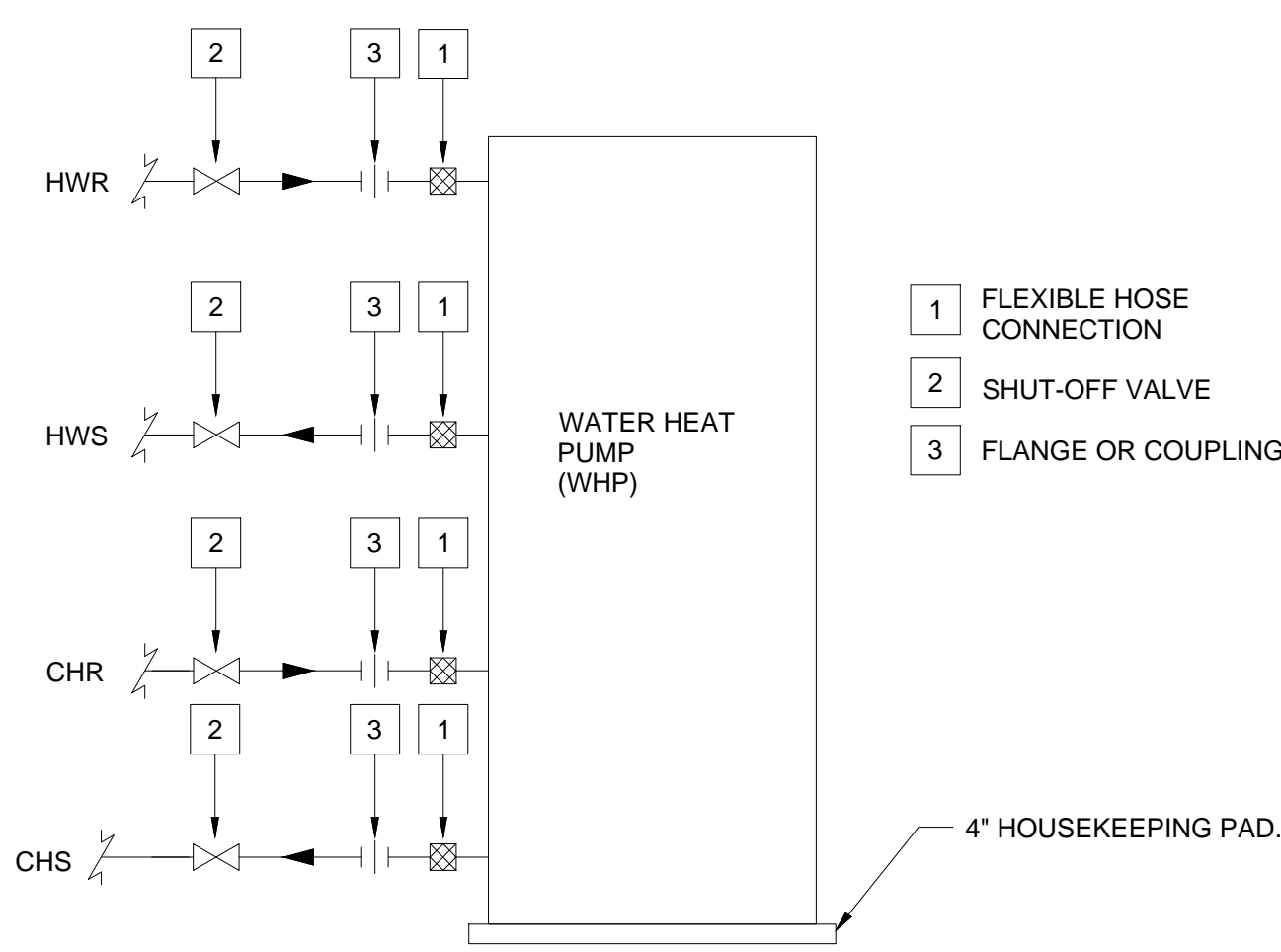
TYP VAV TERMINAL INSTALLATION DETAIL
SCALE: 1" = 1'-0" REF: 4/M-502

PROJECT RECORD DRAWING 8-7-14

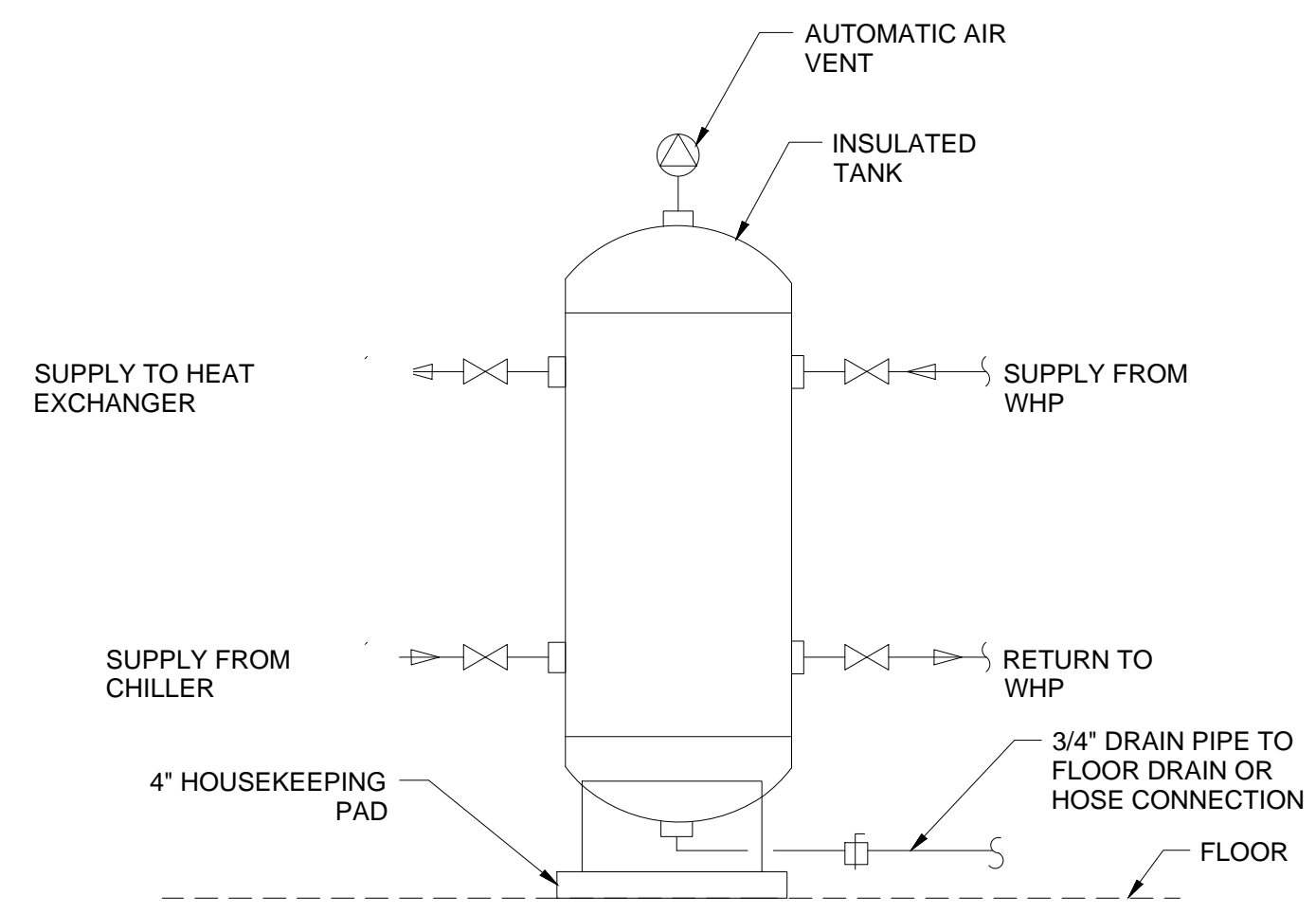
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MECHANICAL ENGINEER:	SAIC	DETAILED BY:	OM
		DRAWN BY:	OM/CO
 Commercial Sheetmetal Co., Inc. 94-142 LEOLELE STREET, WAIPIAHU, HAWAII 96797 PHONE (808) 671-4002 FAX 676-7965			
GENERAL CONTRACTOR:	DAWSON TECHNICAL LLC	JOB NO.:	8410
	A/C & VENTILATION SHOP DRAWING	DATE:	6-3-13
	29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET:	M-10 OF 12

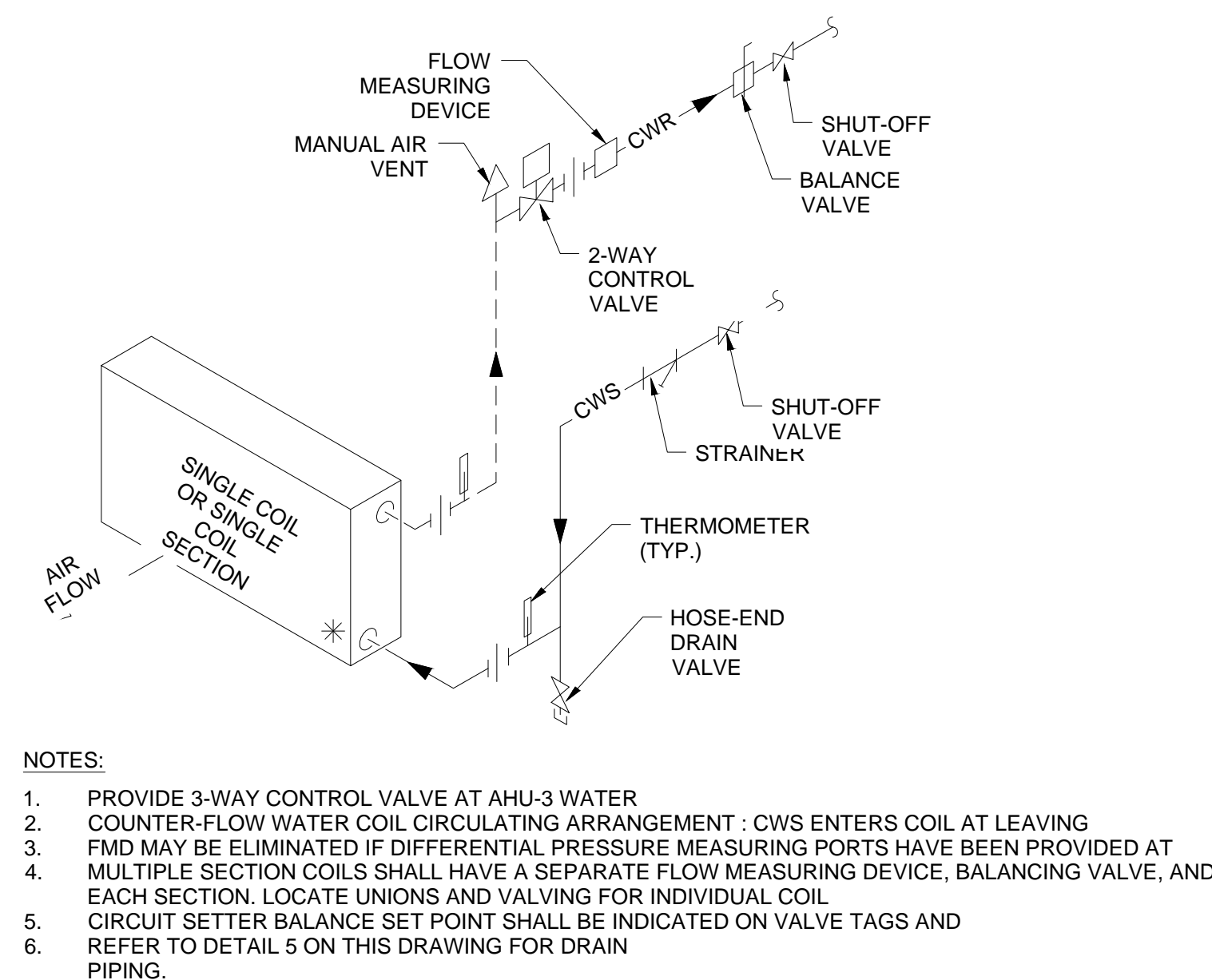
REV.	DATE	DESCRIPTION



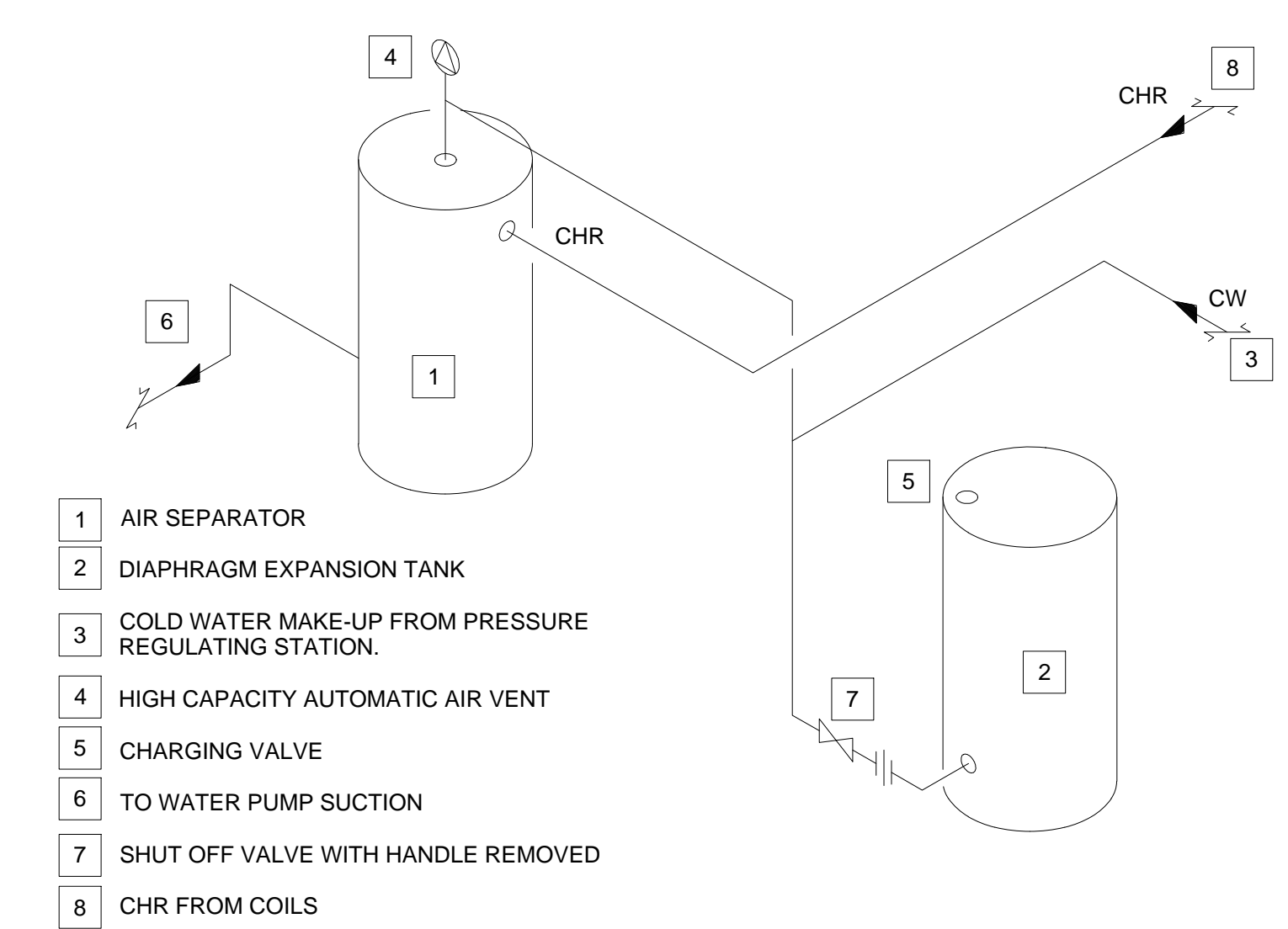
WATER TO WATER HEAT PUMP PIPING DETAIL
SCALE: NONE REF: 8/M-503



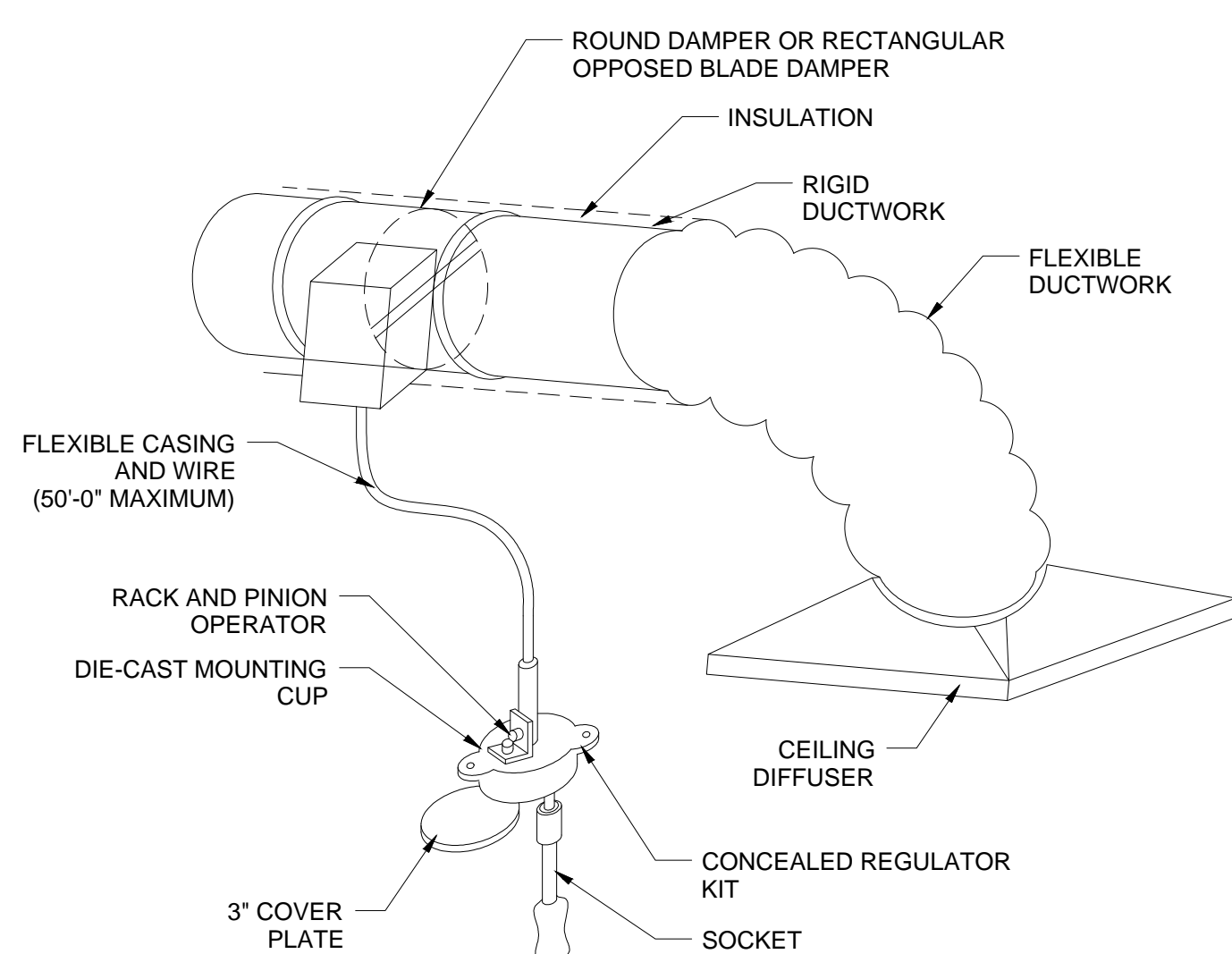
TYP HOT WATER STORAGE TANK PIPING DETAIL
SCALE: NONE REF: 10/M-501



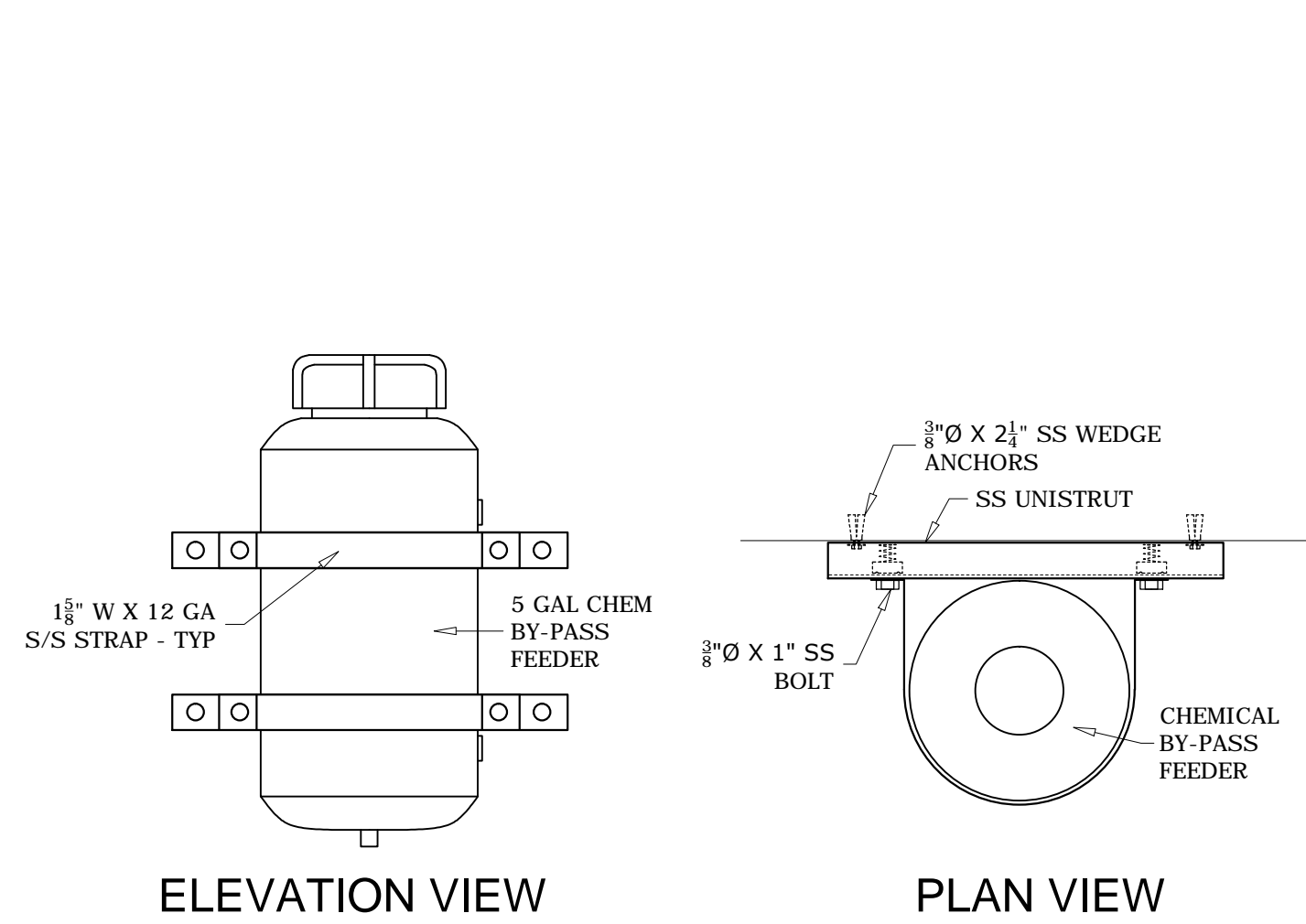
TYP CHILLED WATER COIL PIPING DETAIL
SCALE: NONE REF: 6/M-502



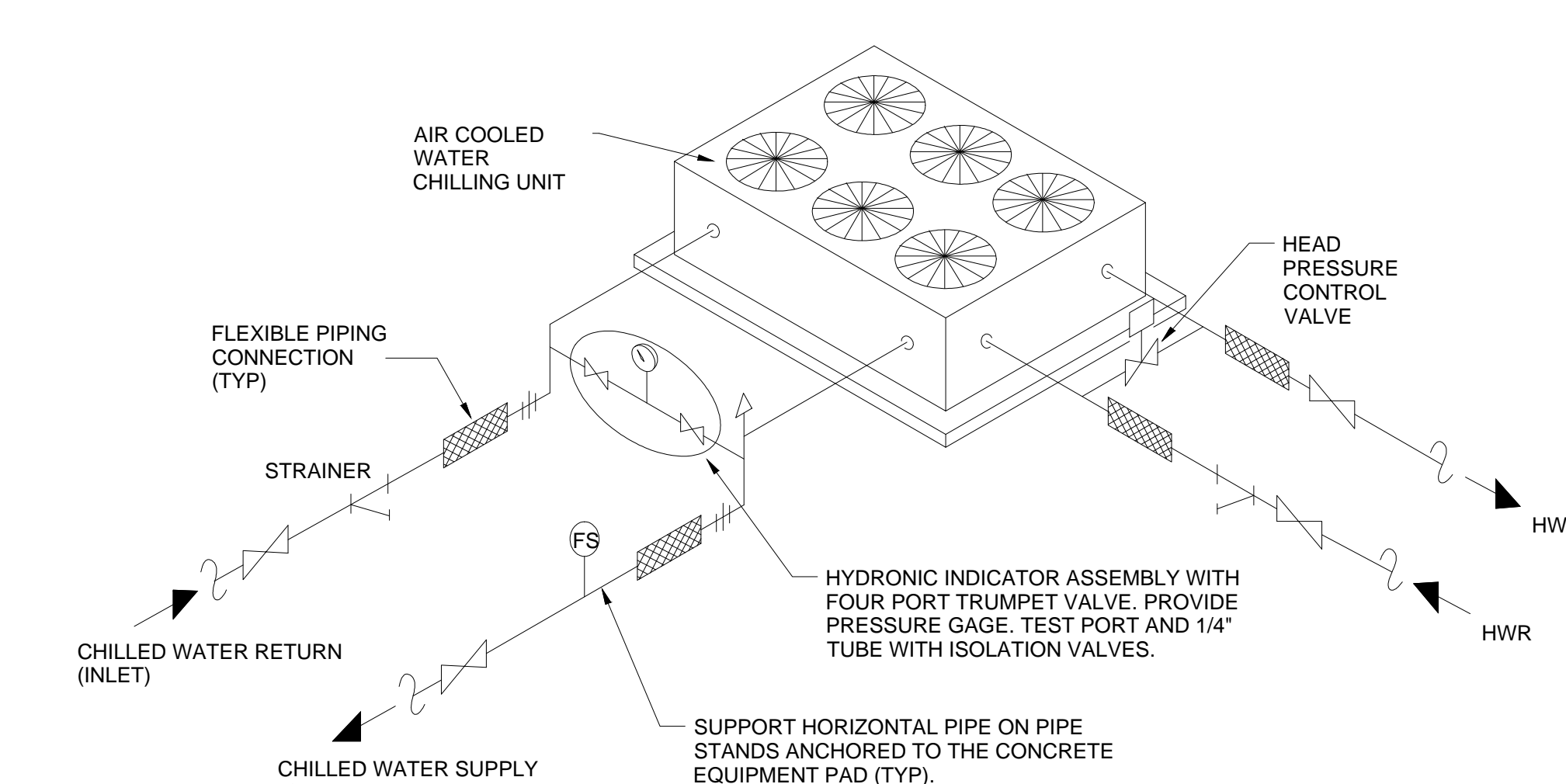
TYP AIR SEPARATOR & EXP TANK PIPING DETAIL
SCALE: NONE REF: 1/M-502



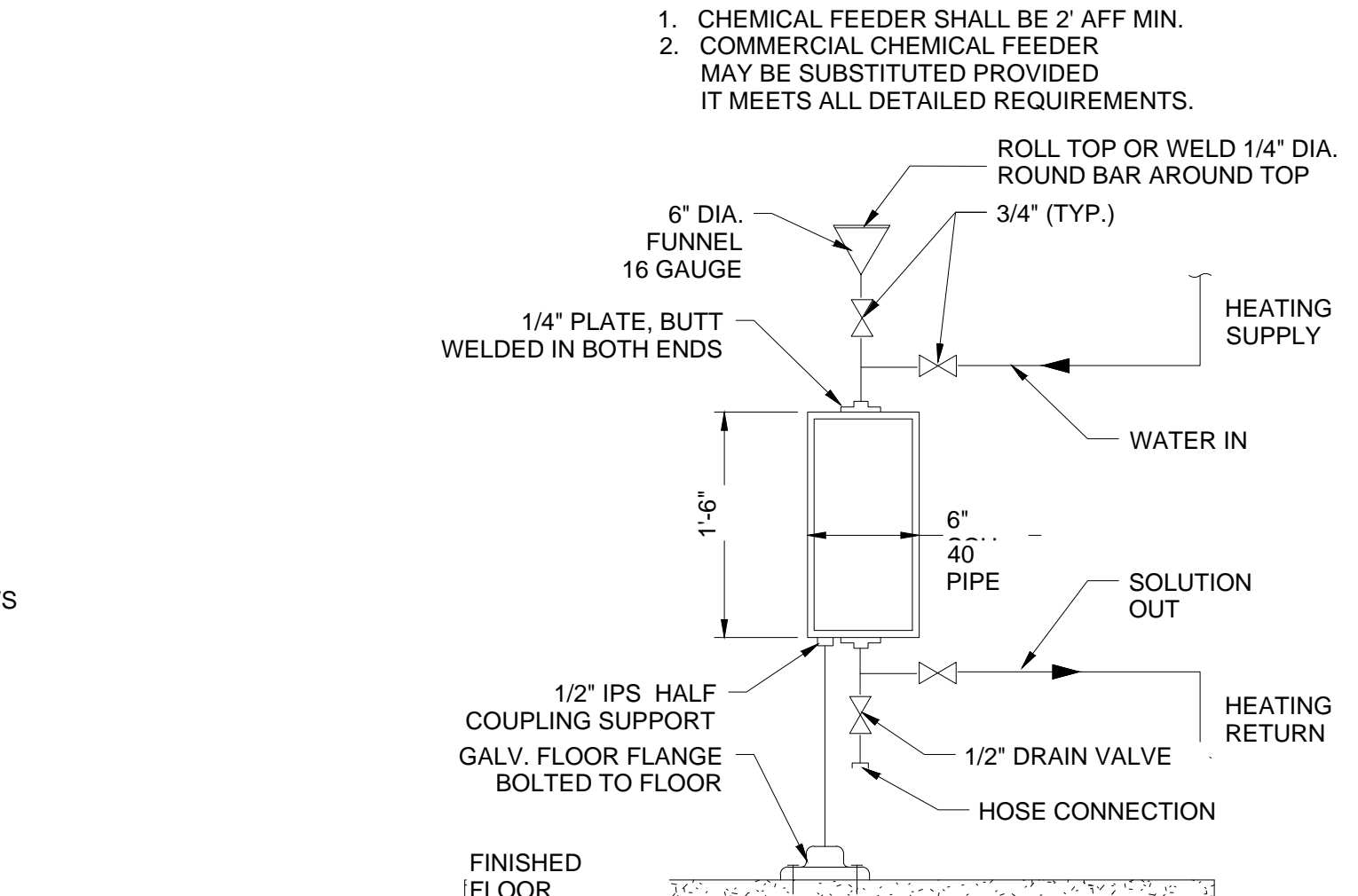
TYP DAMPER CABLE CONTROL SYSTEM DETAIL
SCALE: 1" = 1'-0" REF: 4/M-501



TYP CHEMICAL BYPASS FEEDER MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0" REF: 6/M-503

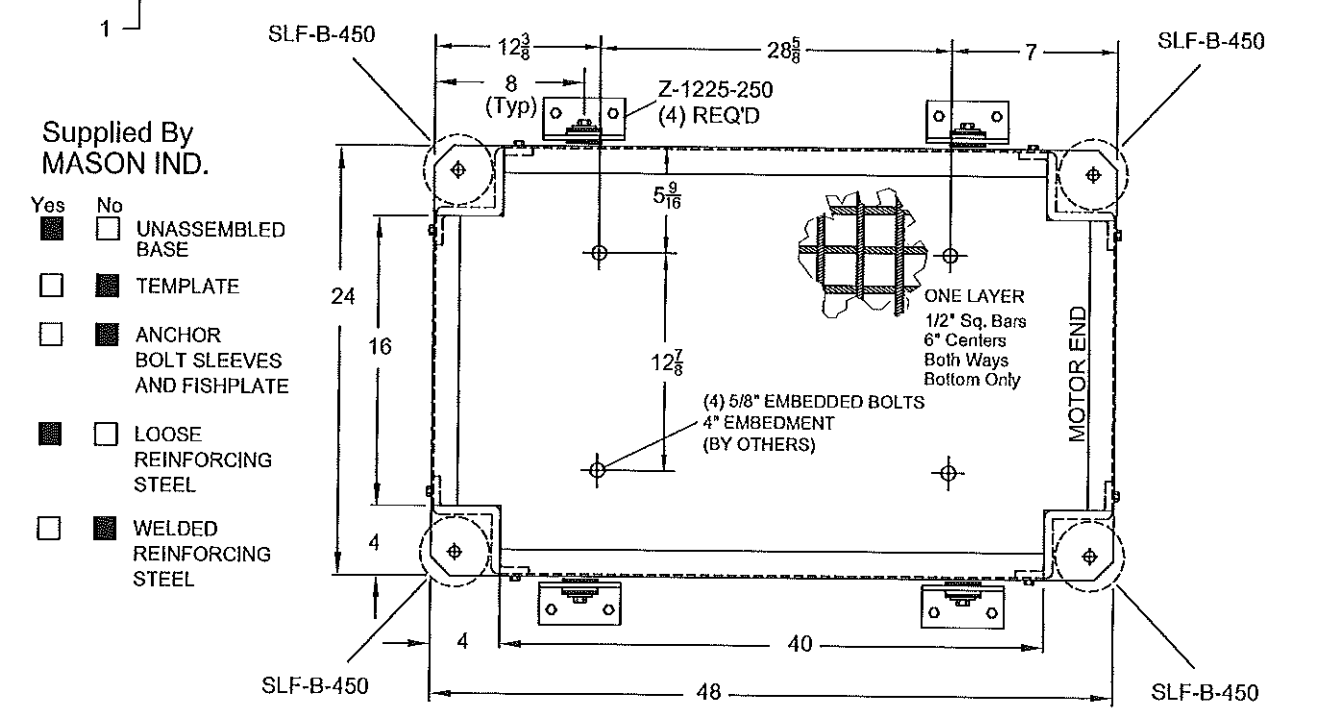
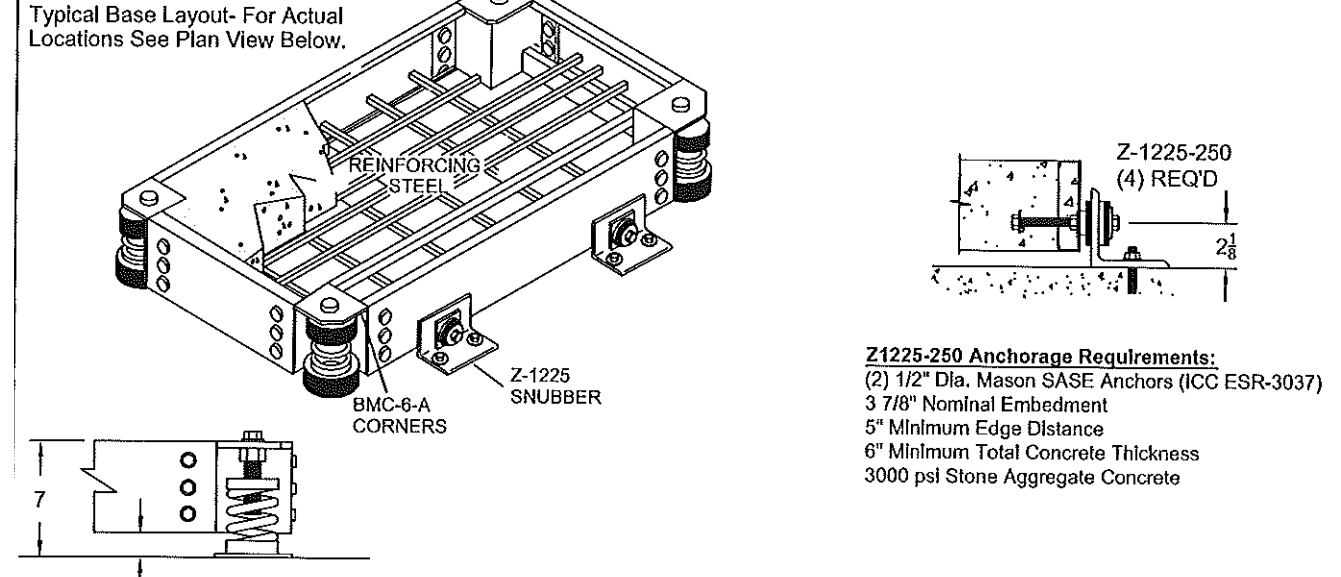


TYP CHILLER PIPING DETAIL
SCALE: NONE REF: 9/M-503



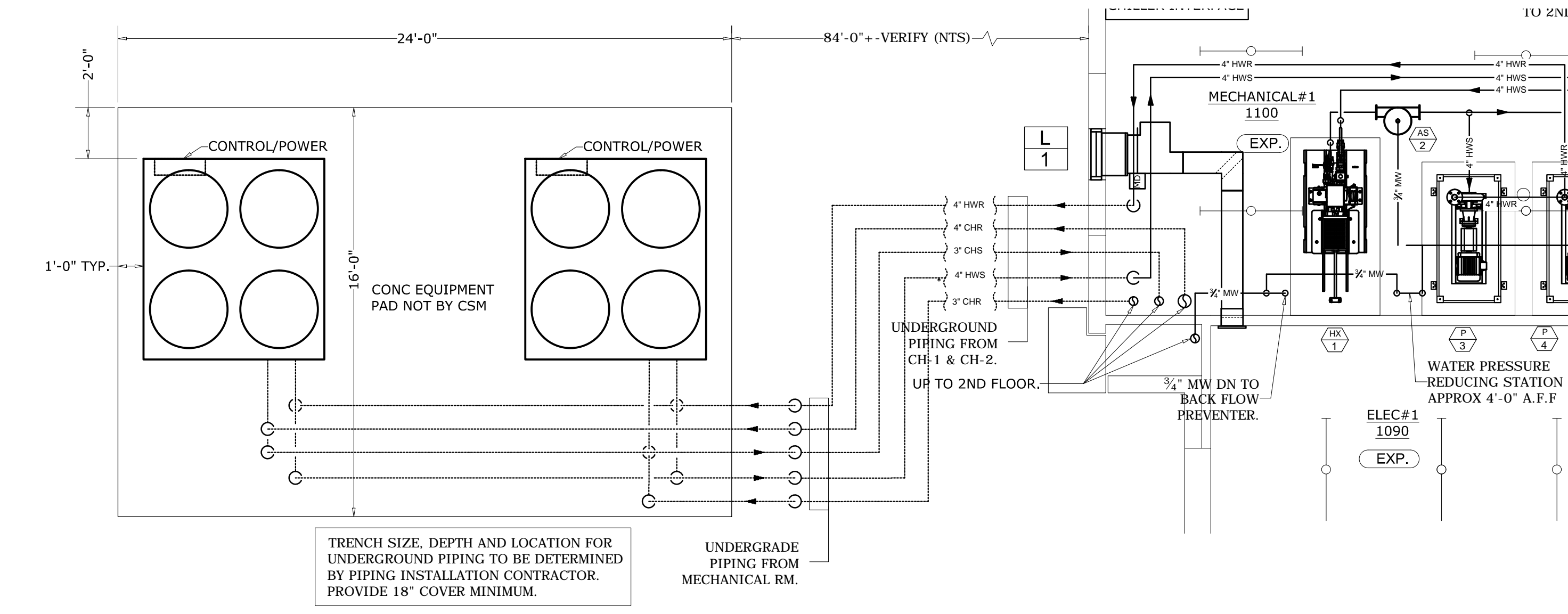
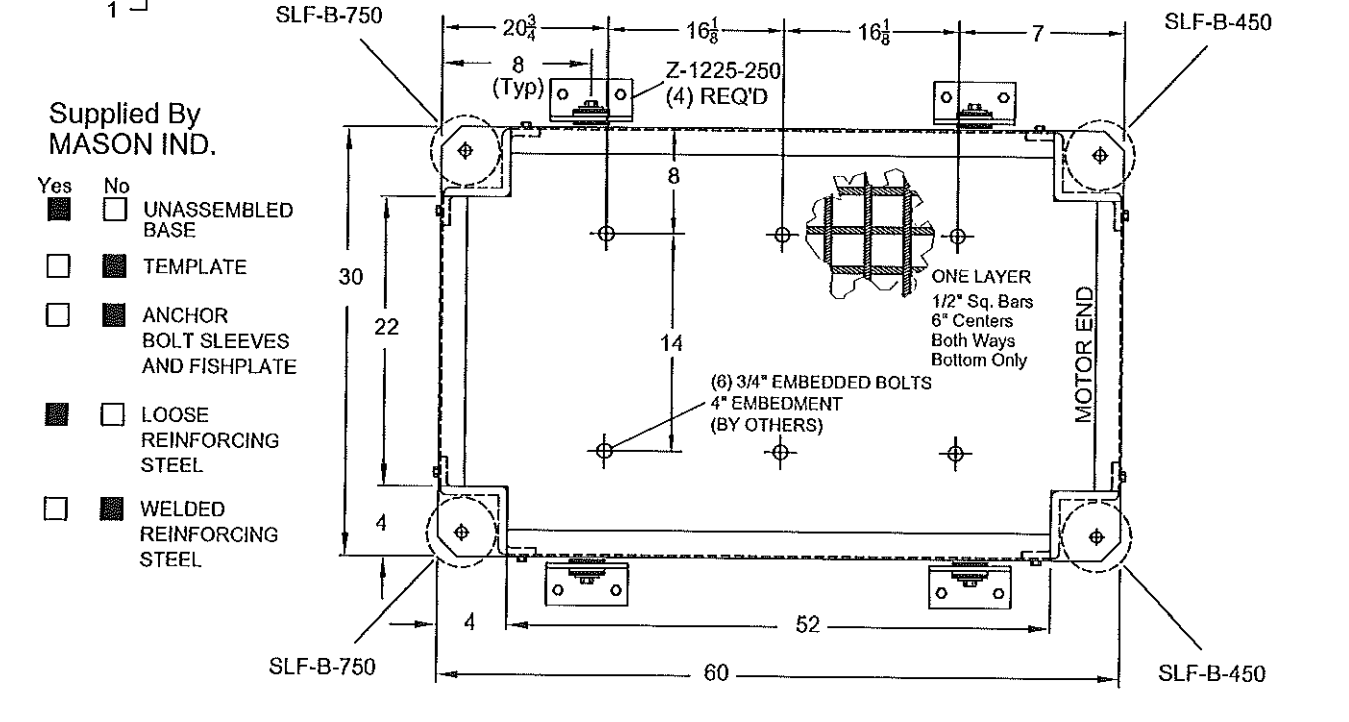
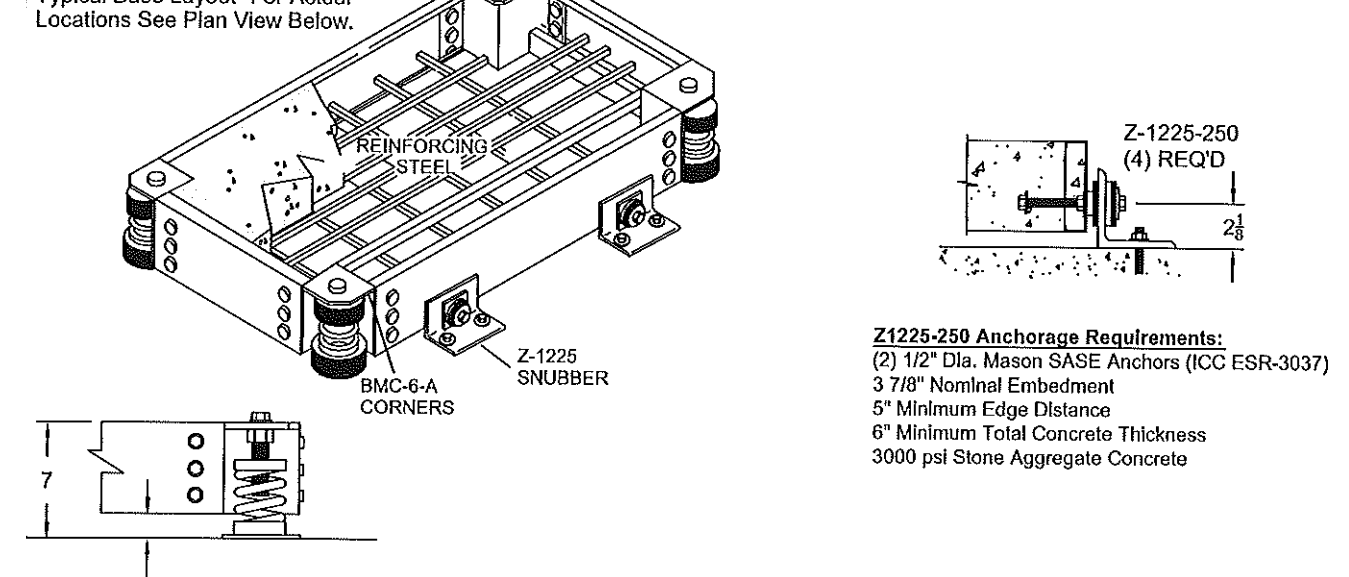
TYP CHEM BY-PASS POT FEEDER PIPING DETAIL
SCALE: NONE REF: 6/M-503

MANUF. BELL & GOSSETT 1510	PUMP TYPE CLOSE COUPLED	SUCTION SIZE 3"	SIZE 2E	MODEL 1510	END SUCTION	SIZE 2131	MOTOR H.P. 1.5	FRAME SIZE 1800
WEIGHTS: STEEL BASE .25 lbs.	EQUIPMENT BASE w/ CONCRETE .602 lbs.	TOTAL .852 lbs.	FOR SPRING MOUNT DATA SEE: WF-28383A					

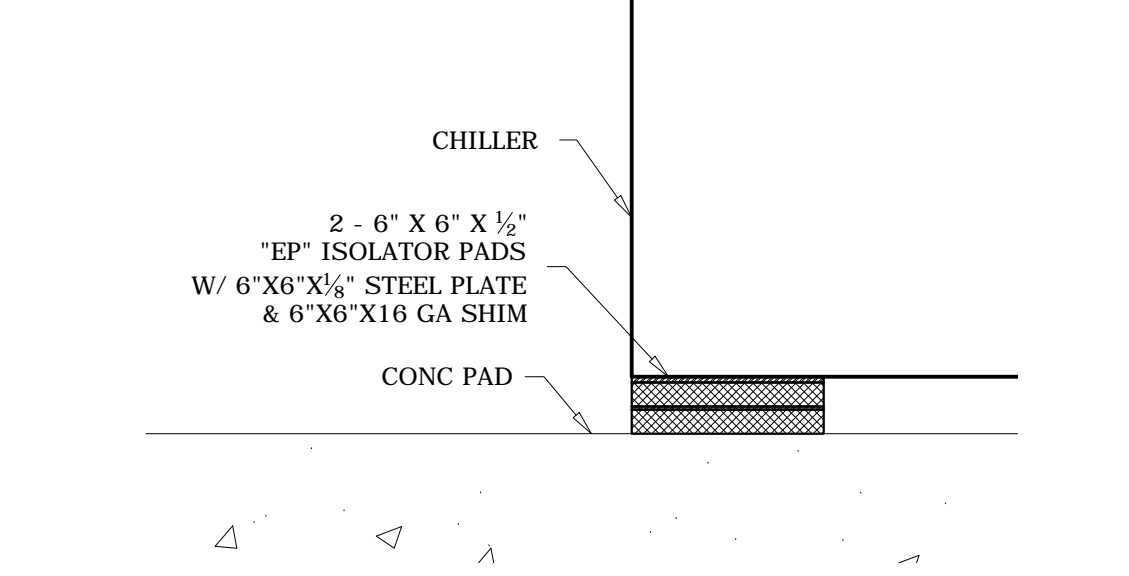


TYP P-1 THRU P-4 INERTIAL PAD DETAIL
SCALE: NONE REF: 3/M-503

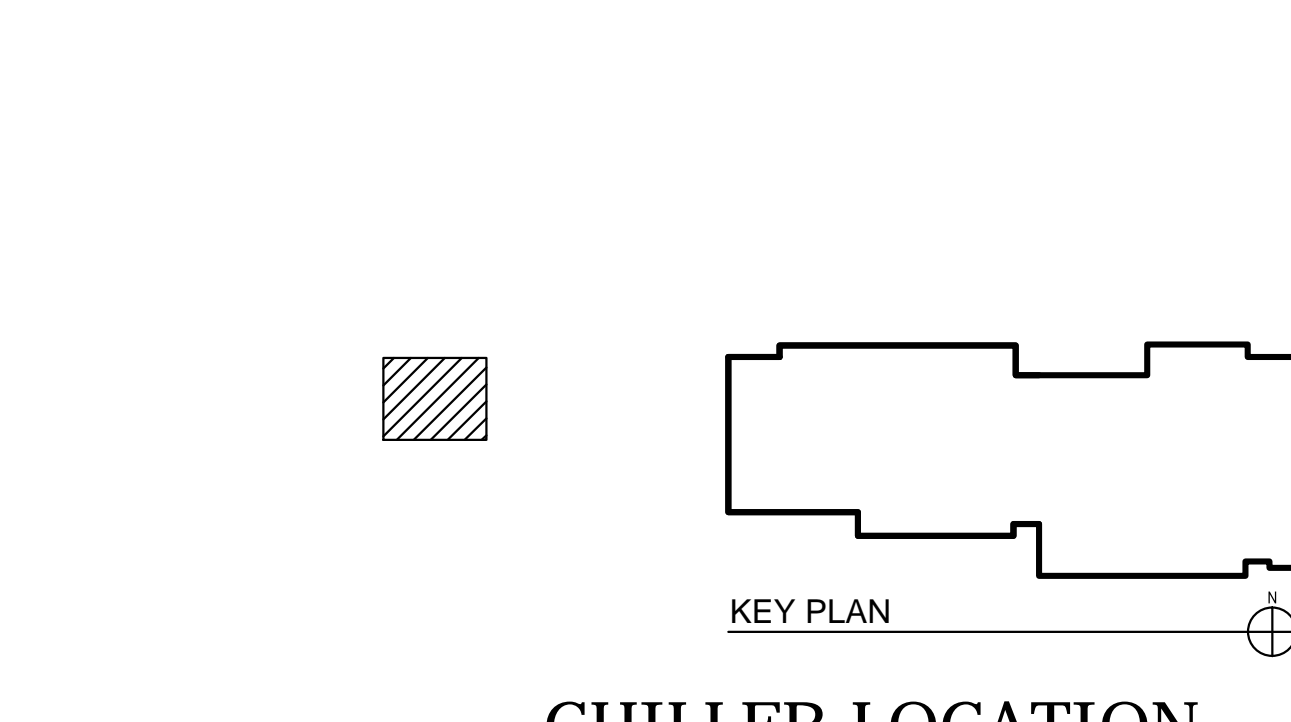
MANUF. BELL & GOSSETT 1510	PUMP TYPE DOUBLE SUCTION	SUCTION SIZE 3"	SIZE 2E	MODEL 1510	END SUCTION	SIZE 2131	MOTOR H.P. 3	FRAME SIZE 1800
WEIGHTS: STEEL BASE .99 lbs.	EQUIPMENT BASE w/ CONCRETE .389 lbs.	TOTAL .1489 lbs.	FOR SPRING MOUNT DATA SEE: WF-28383A					



CHILLER PAD LAYOUT
SCALE: 1/4" = 1'-0" REF: 1/M-402



TYP CHILLER MOUNTING DETAIL
SCALE: 3" = 1'-0" REF: NONE



CHILLER LOCATION

PROJECT RECORD DRAWING 8-7-14

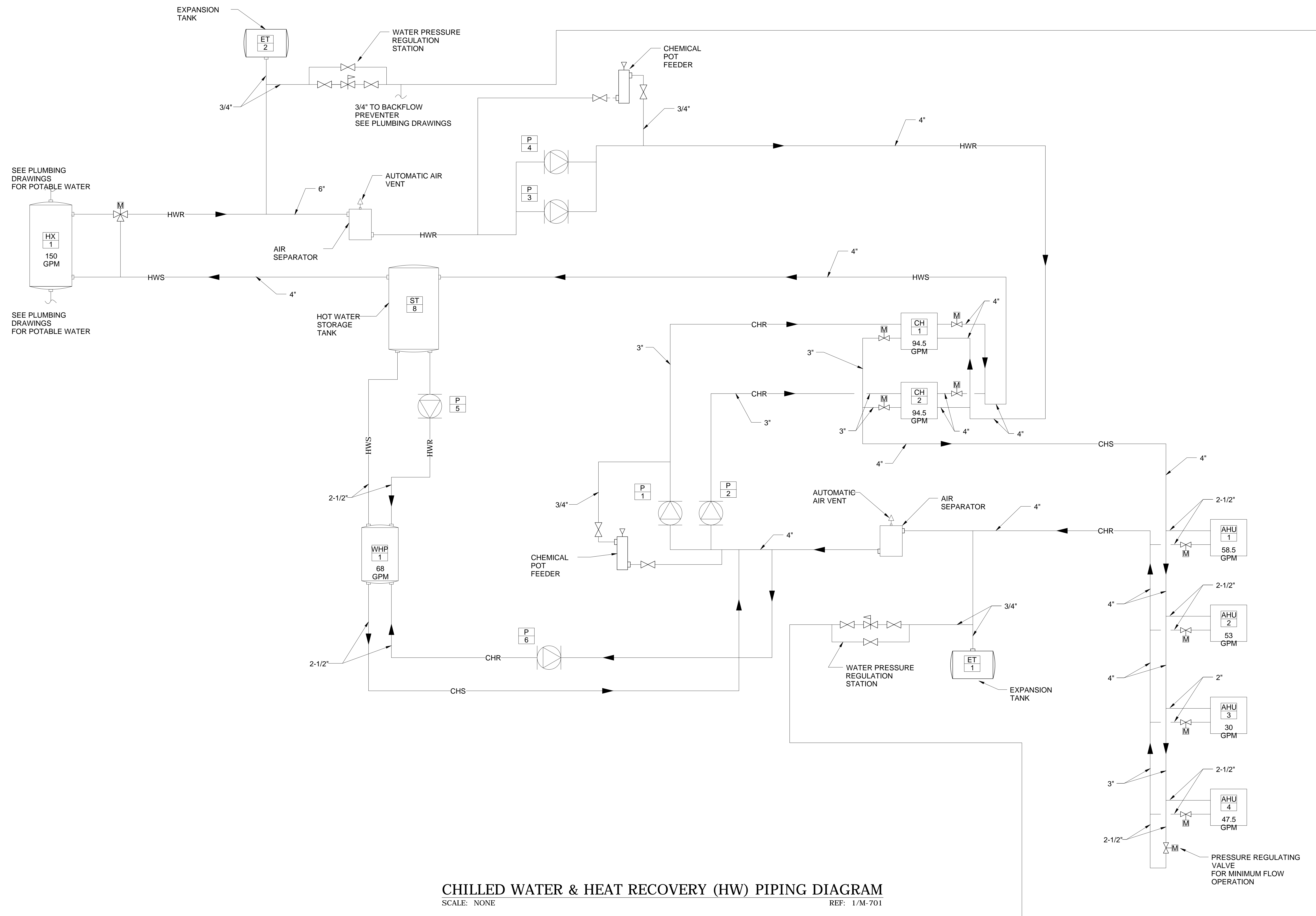
APPROVED DRAWING 5-2-13

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MECHANICAL ENGINEER: SAIC	DRAWN BY: OM
GENERAL CONTRACTOR: DAWSON TECHNICAL LLC	JOB NO: 8410
A/C & VENTILATION SHOP DRAWING	DATE: 6-3-13
29TH IBCT READINESS CENTER (BDE) KALAHELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET: M-11 OF 12

- 8 10-30-13 REVISED CHILLER LAYOUT
- 7 10-29-13 REVISED CHILLER LAYOUT

REV.	DATE	DESCRIPTION
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CHILLED WATER & HEAT RECOVERY (HW) PIPING DIAGRAM
 SCALE: NONE REF: 1/M-701

PROJECT RECORD DRAWING 8-7-14

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MECHANICAL ENGINEER	SAIC	DESIGNED BY	OM
		DRAWN BY	OM/CO

GENERAL CONTRACTOR:	DAWSON TECHNICAL LLC	JOB NO.	8410
	A/C & VENTILATION SHOP DRAWING	DATE	6-3-13

29TH IBCT READINESS CENTER (BDE) KALAELOA, OAHU, HAWAII HI ARNG PROJECT NO. 150043	SHEET M-12 OF 12
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REV.	DATE	DESCRIPTION
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