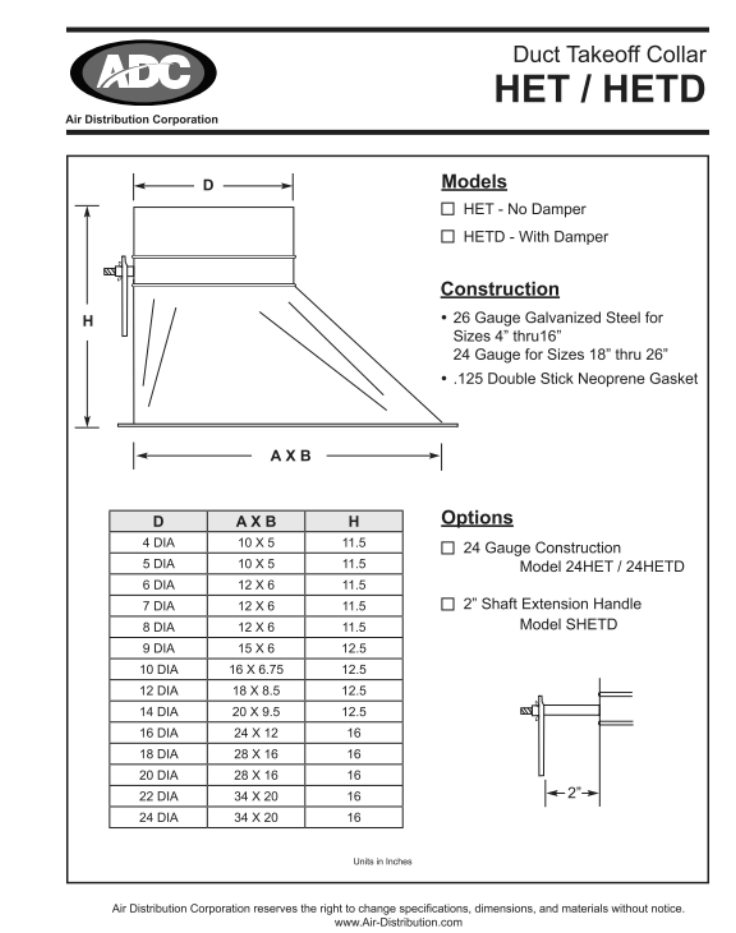


EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) 10" ROUND HETOS ARE PURCHASED FITTINGS WHICH WILL MOUNT ON 9" HOD DUCT AND GET THE REQUIRED CFMS FOR 10" ROUND. SEE SUBMITTAL BELOW.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACER TUBING WITH ACER FITTINGS. JOINING METHOD IS N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR SUPPLY AIR DUCTS ARE INSULATED WITH 1 1/2" THICK DUCT WRAP PER ENGINEERING VARIANCE. EXHAUST AND RETURN AIR DUCTS ARE UNINSULATED.
 - 7) INSULATION IS NOT SHOWN TO PROVIDE DETAIL CLARITY FOR REVIEW.
 - 8) COVID MECHANISMS TO BE INSTALLED ON ALL INACCESSIBLE DAMPERS AND LOCATE OPERATING DEVICES TO BE TERMINATED AT THE ACCESS DOORS IN THE CEILING FOR THE UNITS SERVED AND CLEARLY MARKED WITH DAMPER LOCATIONS SERVED.



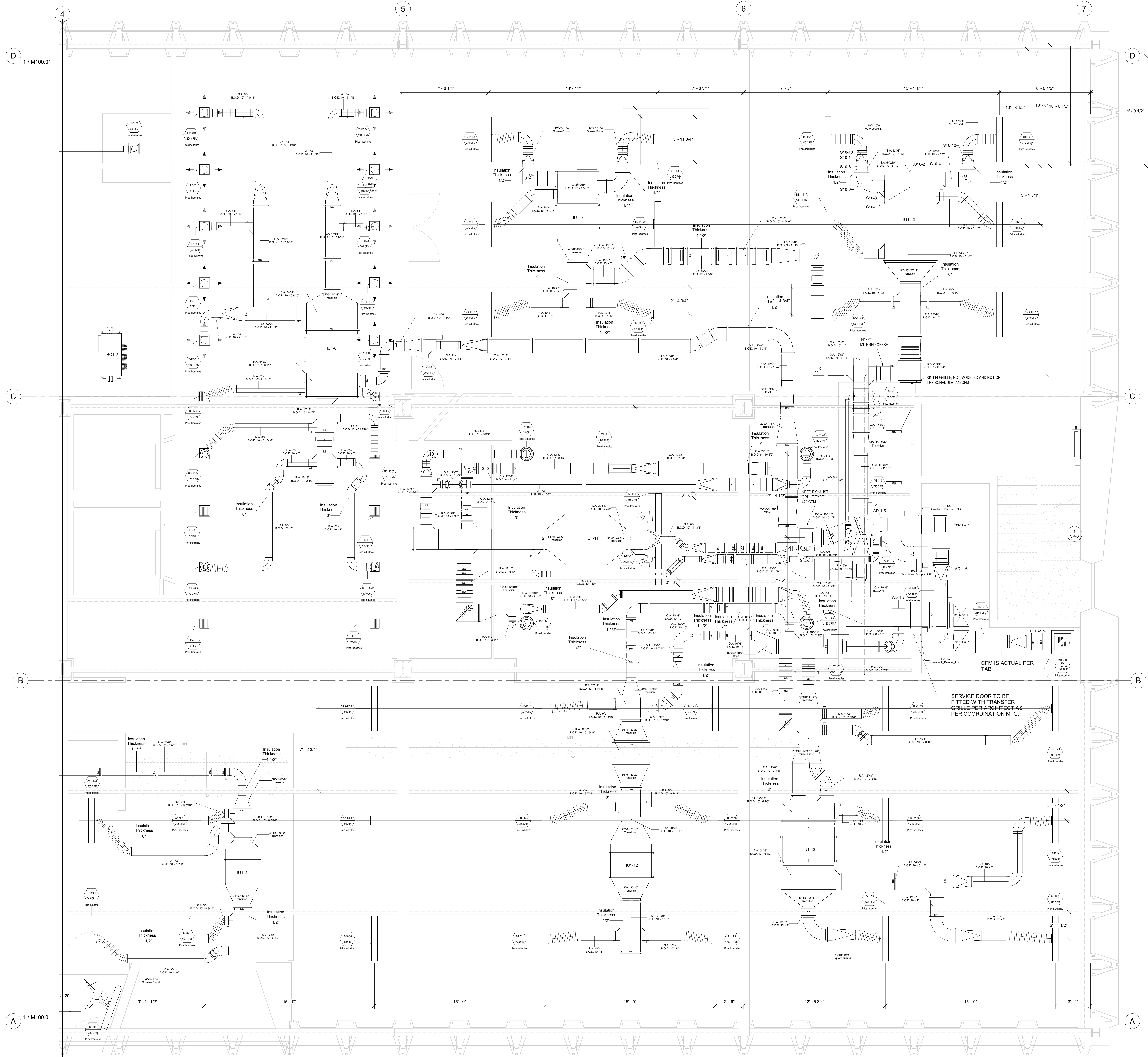
No.	Description	Date
0	1ST FLOOR FORMAL SHOP DWG. ISSUE	8/9/2021
1	AS-BUILT	8/20/2022

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

FIRST FLOOR NORTH HVAC PART. PLAN

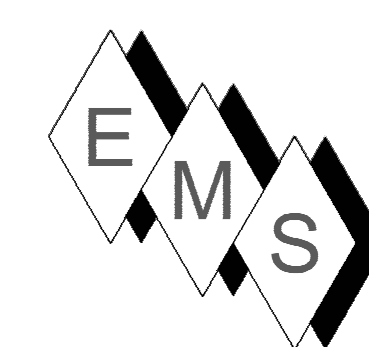
Project Number: 5072
 Date: 12/15/20
 Drawn By: TH
 Checked By: TH

M100.00

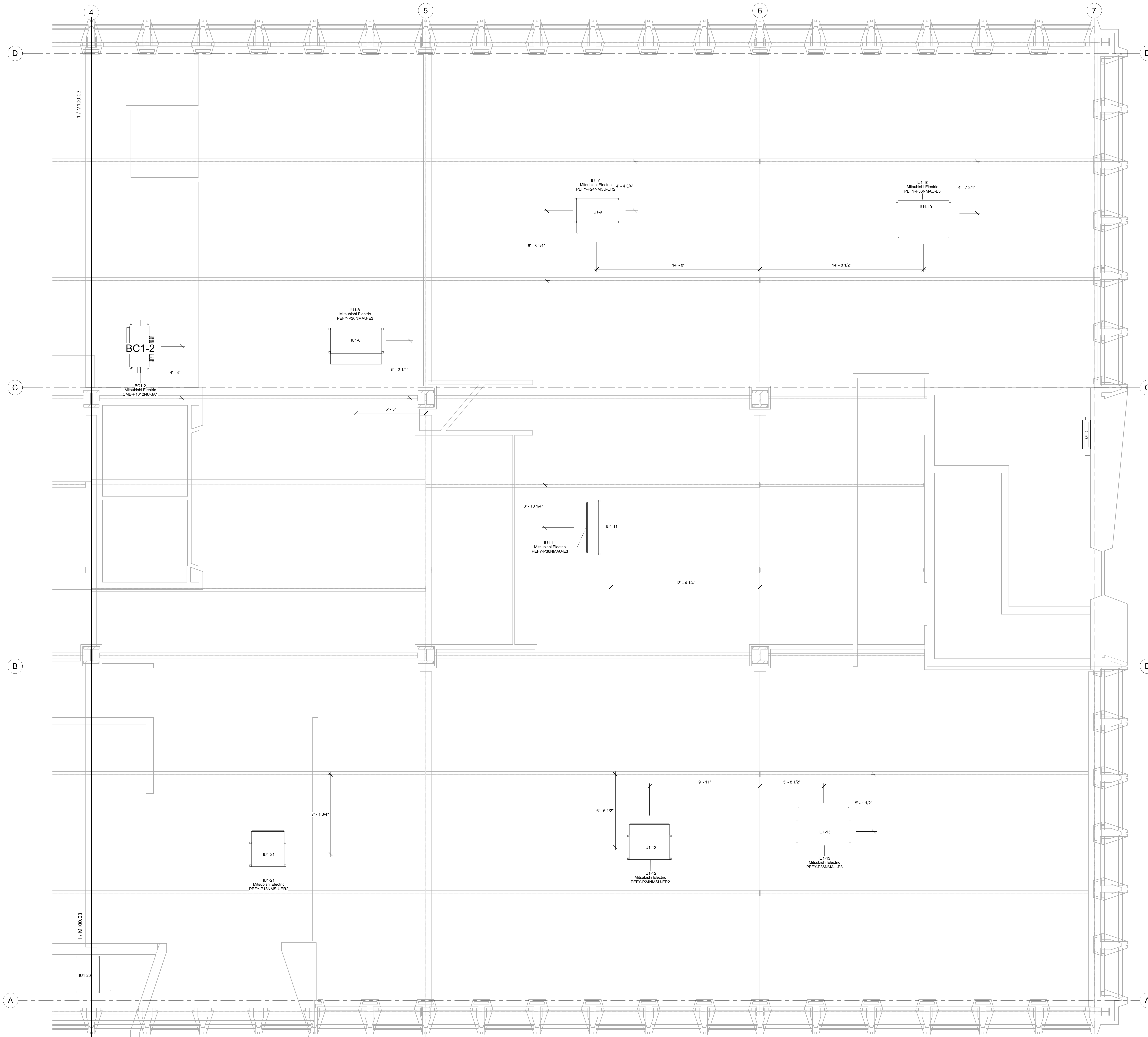


1ST FLOOR DUCTING NORTH
 3/8" = 1'-0"

10/20/2022 5:40:49 PM



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No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

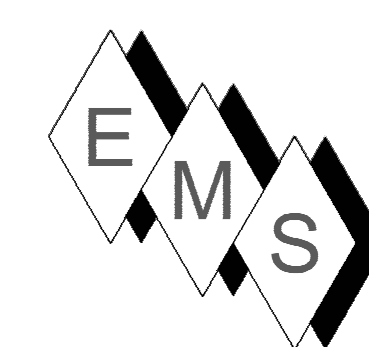
FIRST FLOOR NORTH
 EQUIP LOCATION

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M100.02

1 1ST FLOOR UNIT LOCATION NORTH
 3/8" = 1'-0"

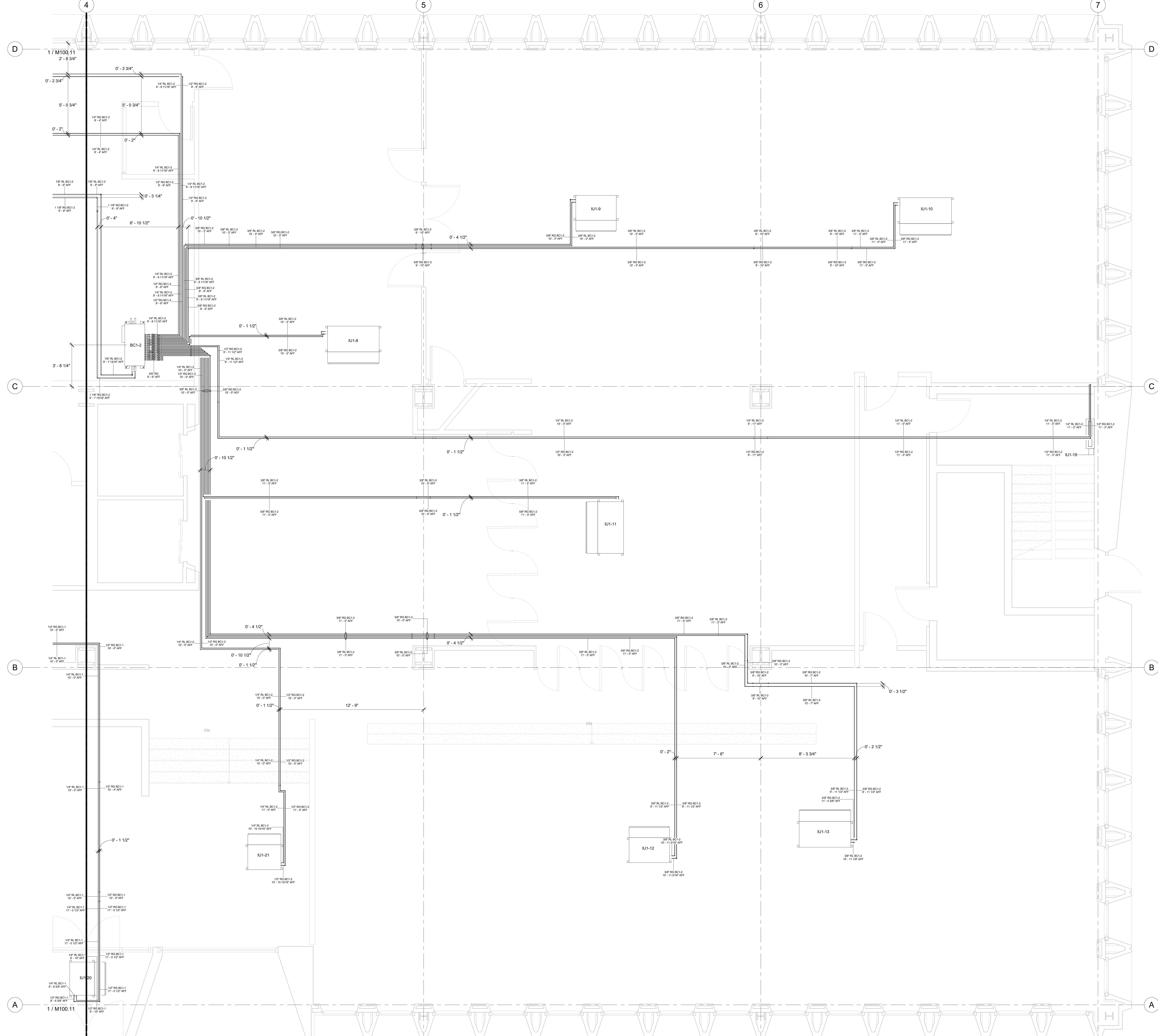
10/20/2022 5:41:05 PM



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PLAN NORTH →

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No.	Description	Date
0	1ST FLOOR FORMAL SHOP DWG. ISSUE	8/9/2021
1	AS-BUILT	8/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

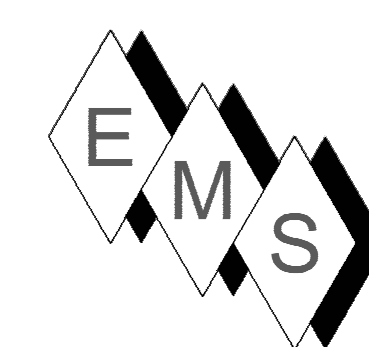
FIRST FLOOR NORTH REFRIG. PART. PLAN

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

M100.10

1ST FLOOR REFRIGERATION NORTH
 PART. PLAN
 3/8" = 1'-0"

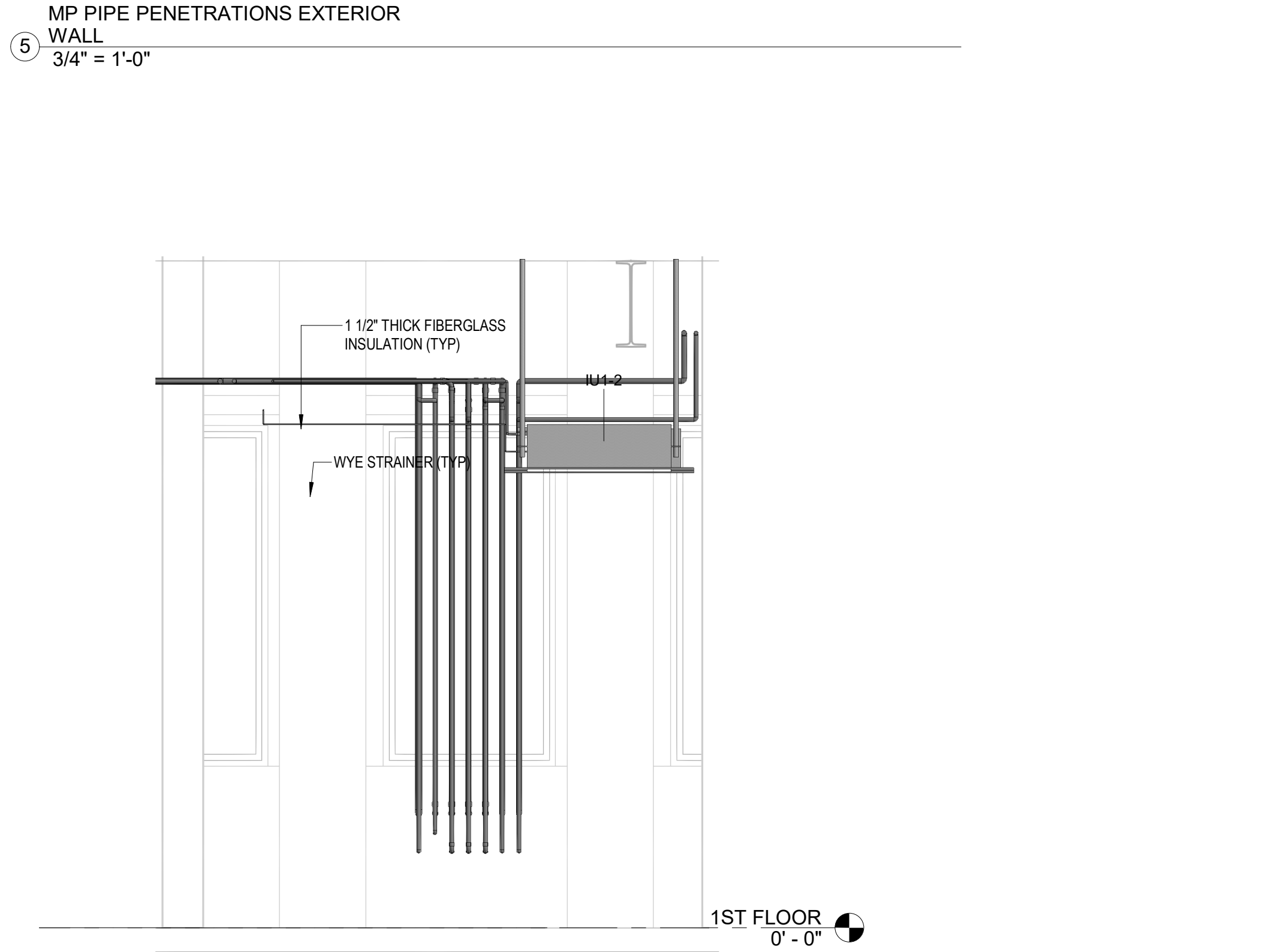
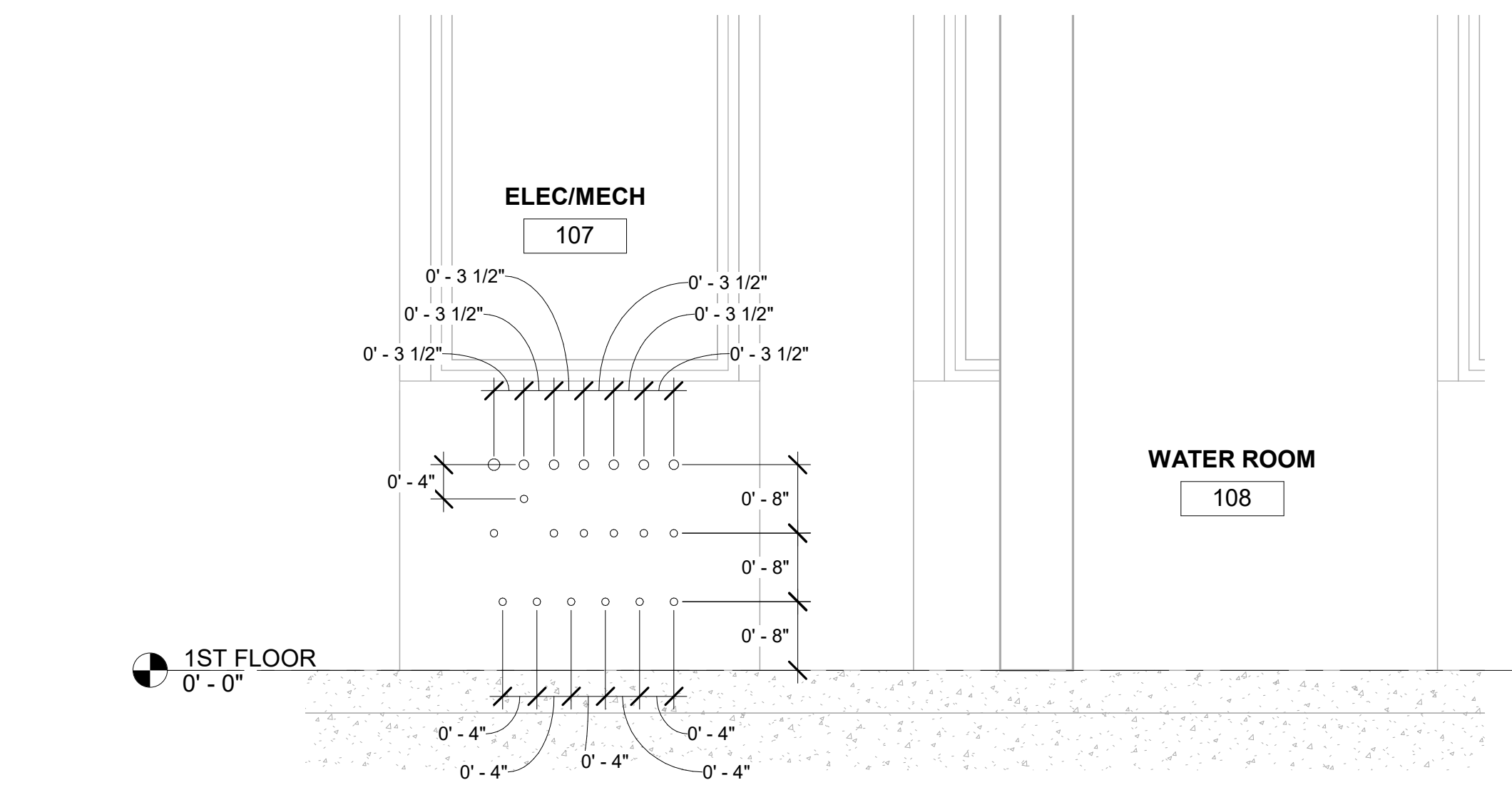
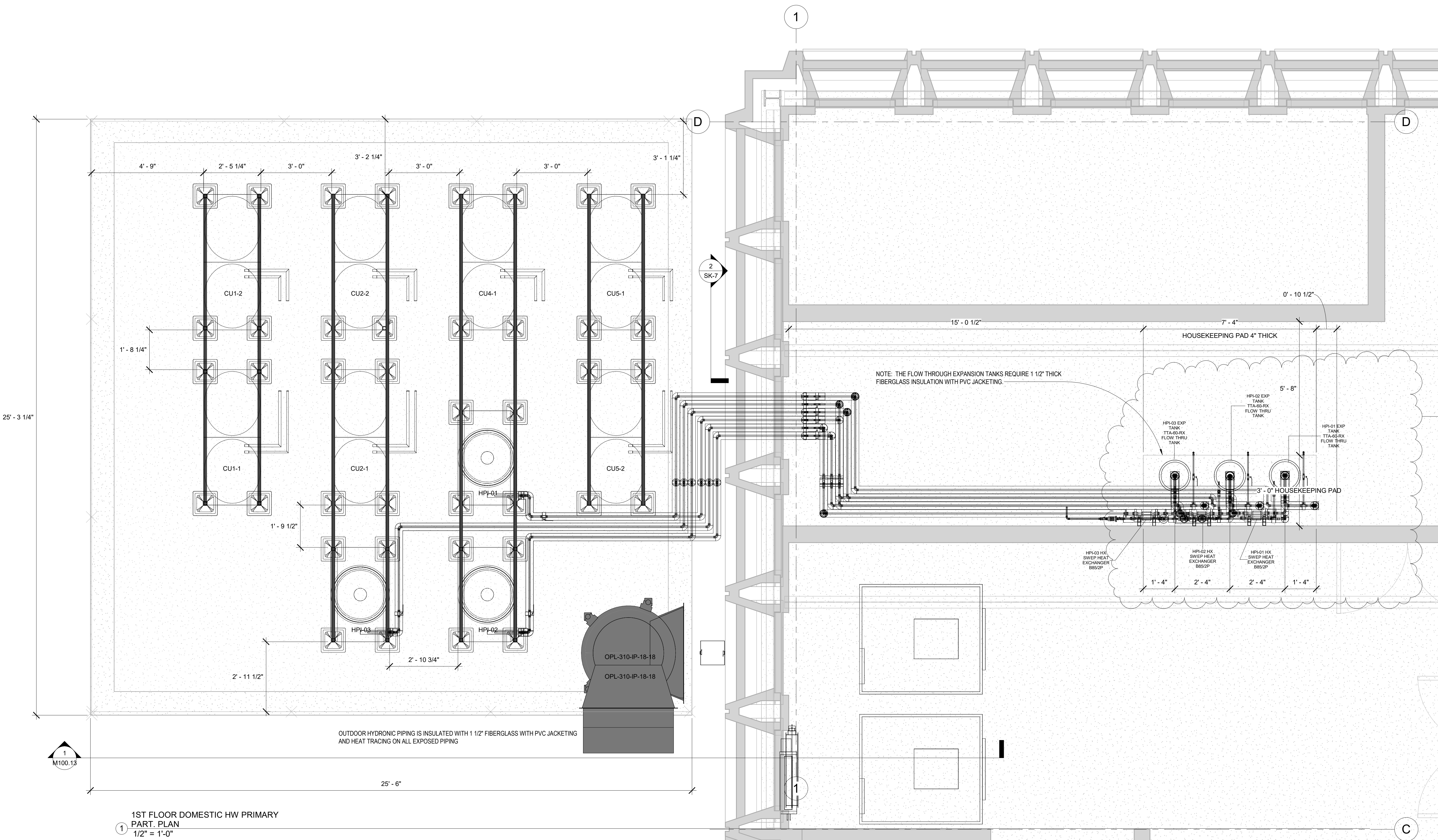
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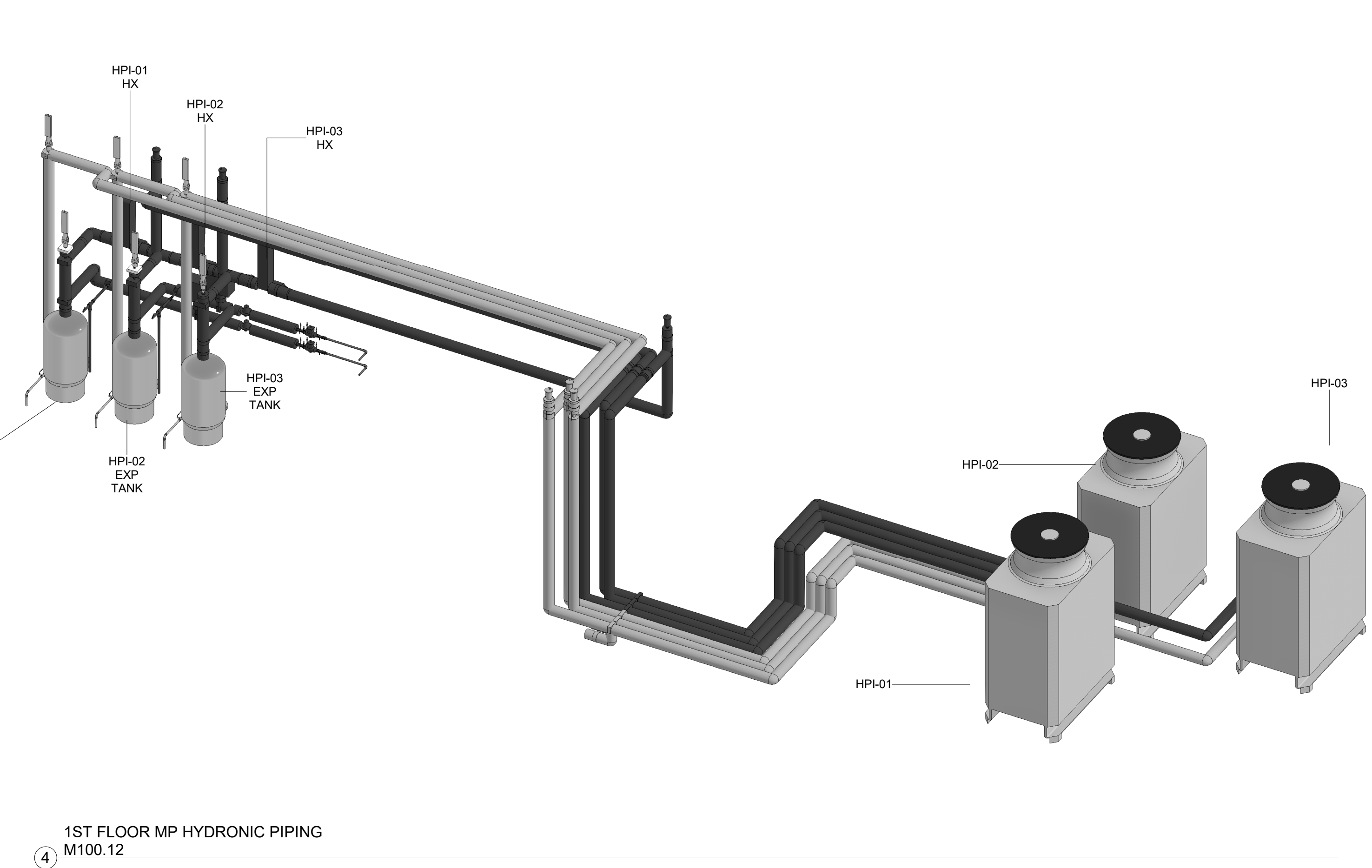
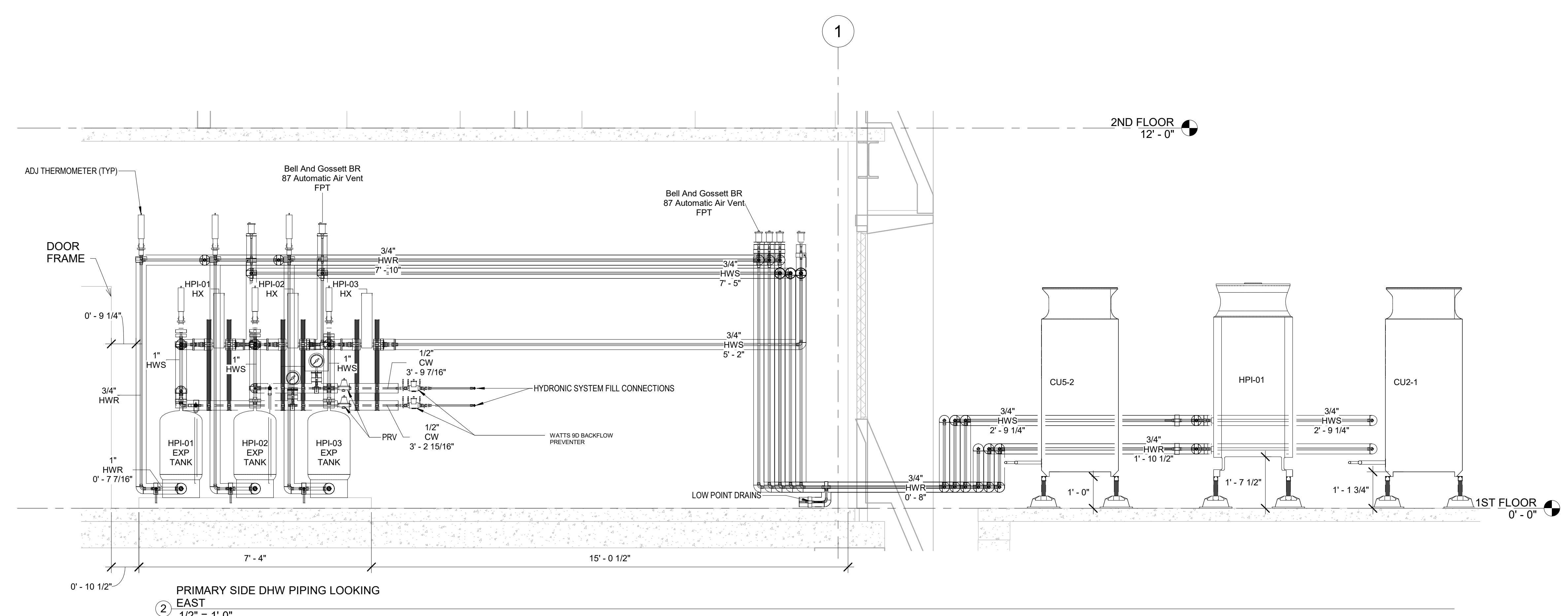
NOTE:
 1) PIPING EXPOSED TO OUTSIDE AMBIENT TEMPERATURES WILL BE HEAT TRACED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 2) OUTDOOR UNIT BOTTOM HEIGHT ABOVE PAD TO BE A MINIMUM OF 12" ABOVE PAD.

LEVEL 1 HYDRONIC PRIMARY PIPING			
SYSTEM SERVED	Description	Diameter	Length
1ST FLOOR DOM HT WTR	HPI-01 HWR PRIMARY	1/2"	1' - 3 1/2"
1ST FLOOR DOM HT WTR	HPI-01 HWR PRIMARY	3/4"	58' - 11 1/4"
1ST FLOOR DOM HT WTR	HPI-01 HWR PRIMARY	1"	1' - 0 3/4"
1ST FLOOR DOM HT WTR	HPI-01 HWS PRIMARY	1/2"	1' - 11 11/16"
1ST FLOOR DOM HT WTR	HPI-01 HWS PRIMARY	3/4"	50' - 0 3/16"
1ST FLOOR DOM HT WTR	HPI-01 HWS PRIMARY	1"	2' - 7 15/16"
UPPER FLRS DOM HT WTR	HPI-02 HWR PRIMARY	1/2"	1' - 3 1/2"
UPPER FLRS DOM HT WTR	HPI-02 HWR PRIMARY	3/4"	58' - 8 13/16"
UPPER FLRS DOM HT WTR	HPI-02 HWR PRIMARY	1"	1' - 0 5/16"
UPPER FLRS DOM HT WTR	HPI-02 HWS PRIMARY	1/2"	11' - 10 3/16"
UPPER FLRS DOM HT WTR	HPI-02 HWS PRIMARY	3/4"	50' - 6 15/16"
UPPER FLRS DOM HT WTR	HPI-02 HWS PRIMARY	1"	4' - 1 1/8"
UPPER FLRS DOM HT WTR	HPI-03 HWR PRIMARY	1/2"	1' - 3 1/2"
UPPER FLRS DOM HT WTR	HPI-03 HWR PRIMARY	3/4"	62' - 10"
UPPER FLRS DOM HT WTR	HPI-03 HWR PRIMARY	1"	1' - 0 9/16"
UPPER FLRS DOM HT WTR	HPI-03 HWS PRIMARY	1/2"	1' - 8 7/16"
UPPER FLRS DOM HT WTR	HPI-03 HWS PRIMARY	3/4"	54' - 4 7/16"
UPPER FLRS DOM HT WTR	HPI-03 HWS PRIMARY	1"	2' - 9 3/8"
Grand total:			367' - 6 1/2"



1ST FLOOR DOMESTIC HW PRIMARY PART PLAN
 1/2" = 1'-0"

PRIMARY SIDE DHW PIPING SECTION
 3/4" = 1'-0"



PRIMARY SIDE DHW PIPING LOOKING EAST
 1/2" = 1'-0"

1ST FLOOR MP HYDRONIC PIPING
 M100.12

No.	Description	Date
0	Issued for Manufacturer review	8/27/2021
1	MOVE TANK / PAD NORTH TO CLEAR PLB HK PAD	9/17/2021
2	AS-BUILT	6/20/2022

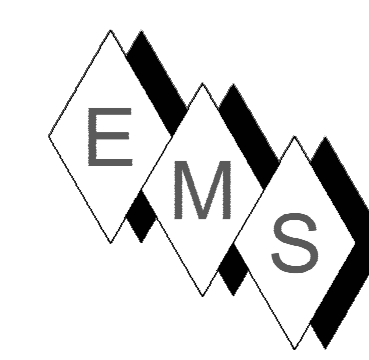
HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

FIRST FLOOR DHW PRIMARY PART PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

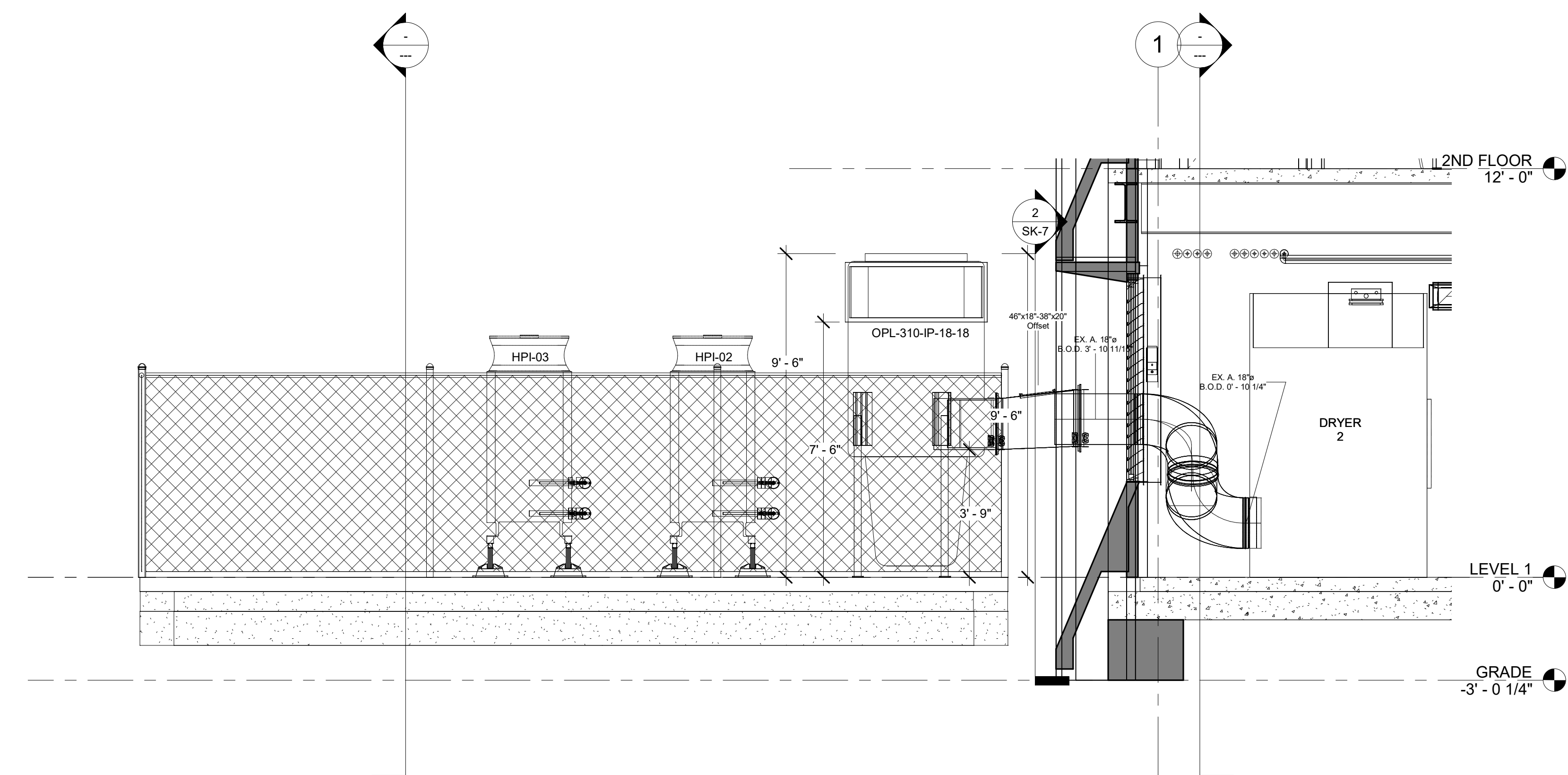
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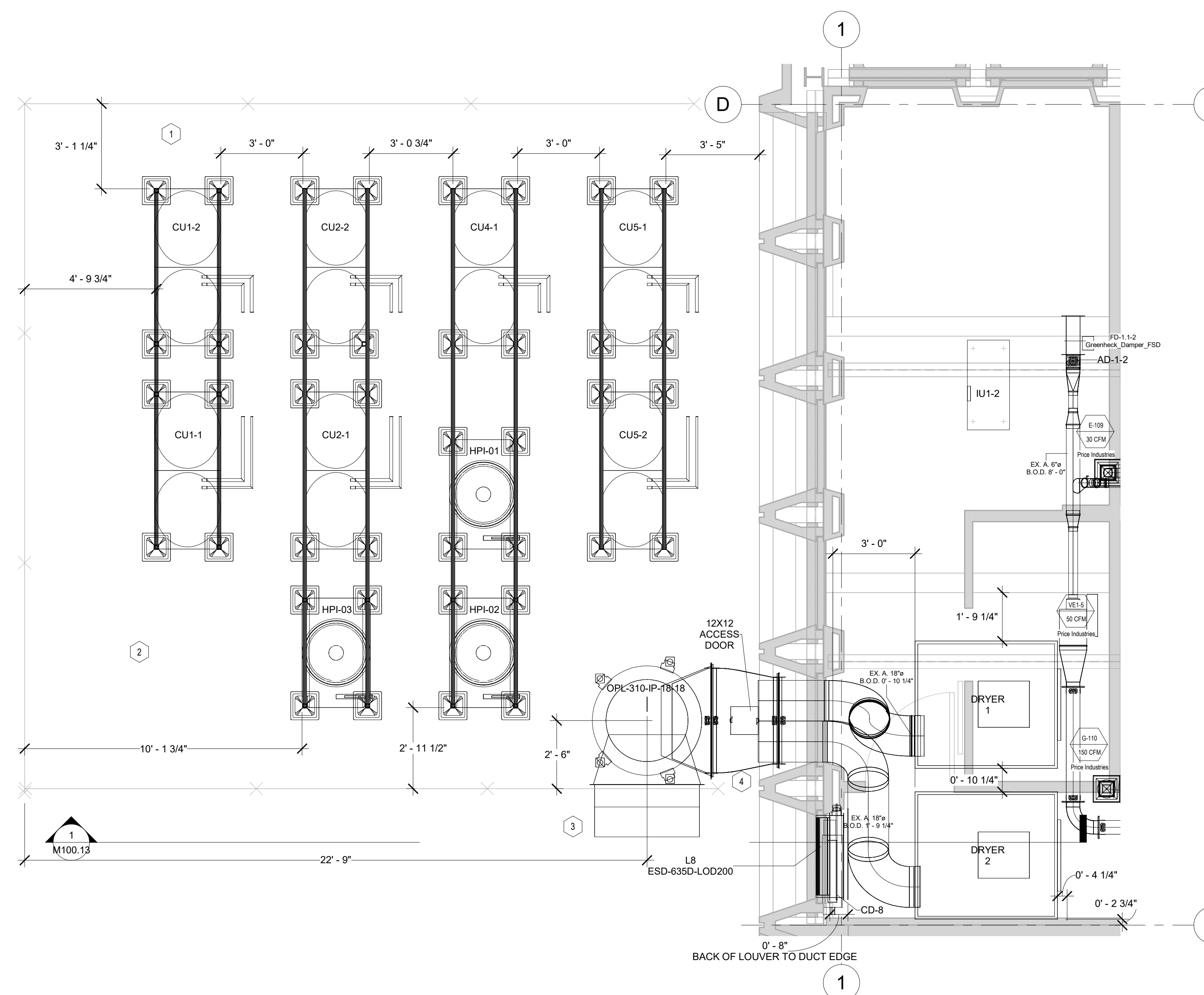


NOTE:

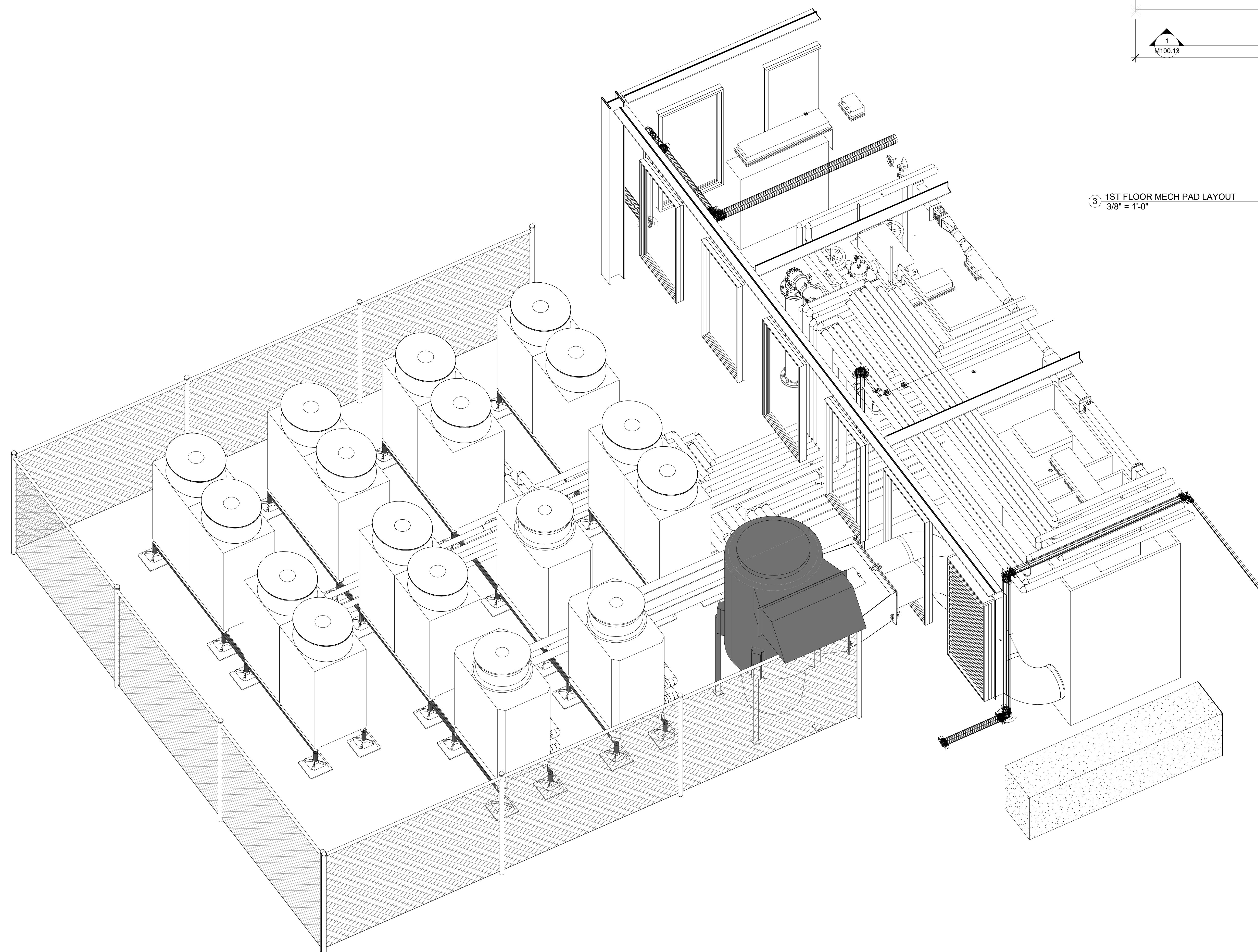
- ① MAINTAIN CLEARANCE FROM FENCE FOR ACCESS AND FOR ELECTRICAL DISCONNECT CLEARANCES PER CODE
- ② AREA FOR WALK-IN COOLER EQUIPMENT
- ③ DISCHARGE LINT FILTER AWAY FROM VRF OUTDOOR EQUIPMENT
- ④ DRYER DUCT IS GALVANIZED SPIRAL DUCT WITH GASKETED JOINTS. EMS TO PROVIDE CUSTOM OFFSET TRANSITION TO LINT FILTER INLET CONNECTION.



① Section 26 Ted
 3/8" = 1'-0"



③ 1ST FLOOR MECH PAD LAYOUT
 3/8" = 1'-0"



② OUTDOOR PAD ISO

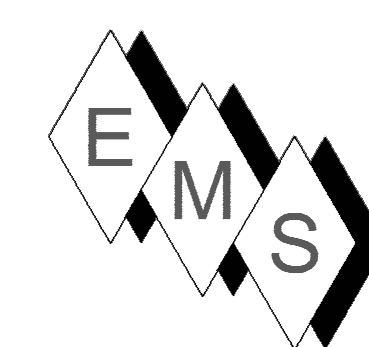
No.	Description	Date
0	REVISED PER RF1 497	9/25/2021
1	AS-BUILT	8/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

FIRST FLOOR MECH PAD LAYOUT

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

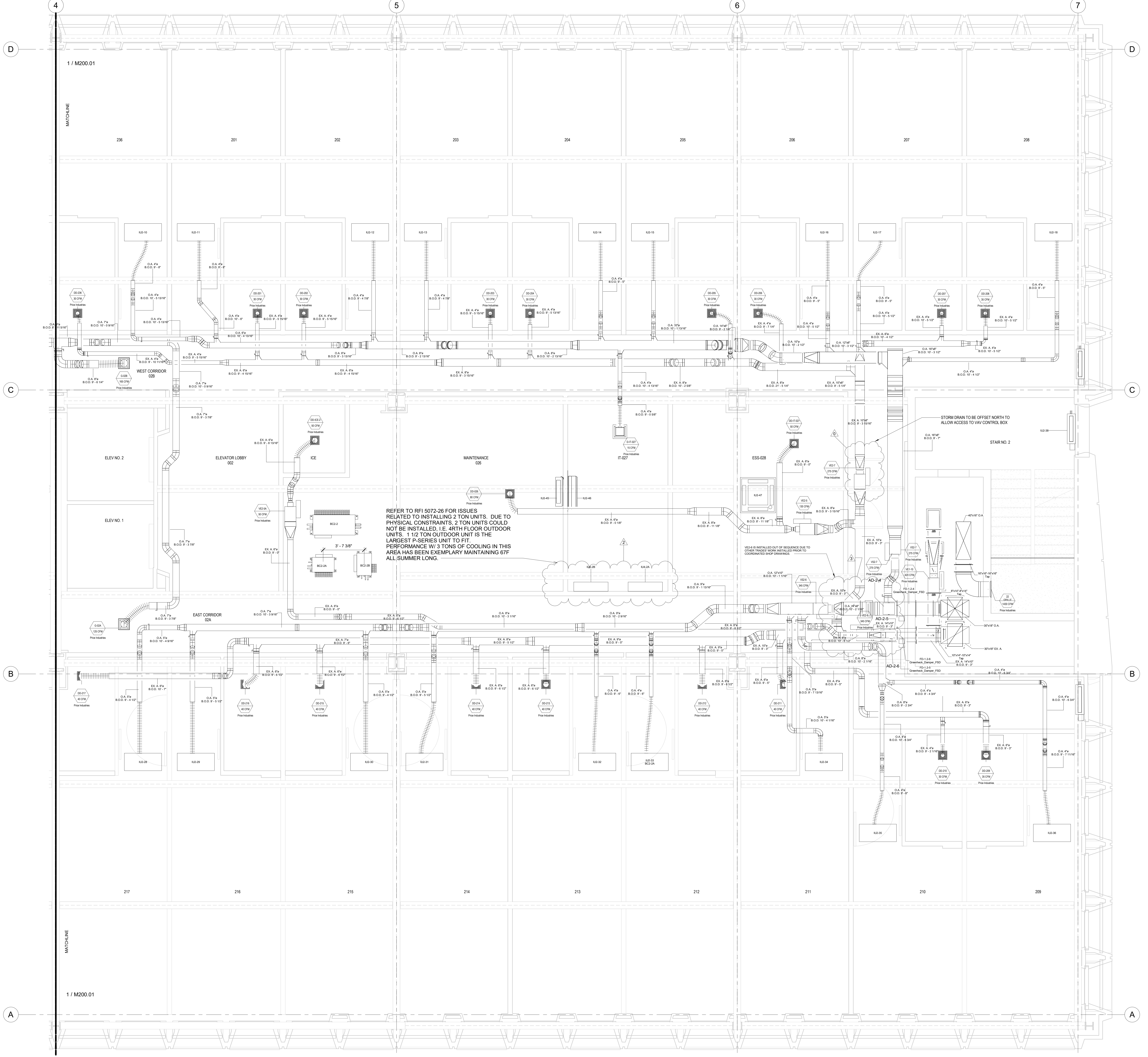
M100.13



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PLAN NORTH →

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No.	Description	Date
0	Moved VAV Pib must change	5/7/2021
1	AS-BUILT	6/20/2022
2	CLARIFICATION	10/28/2022
3	FIELD ROUTE VE2-6, 2-5, 2-7	12/8/2022

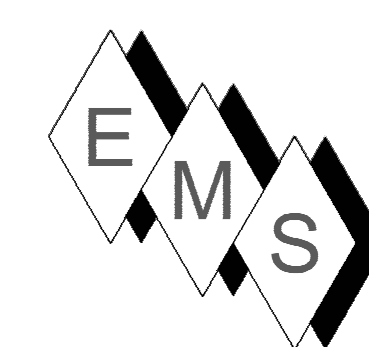
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECOND FLOOR HVAC PART. PLAN NORTH

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

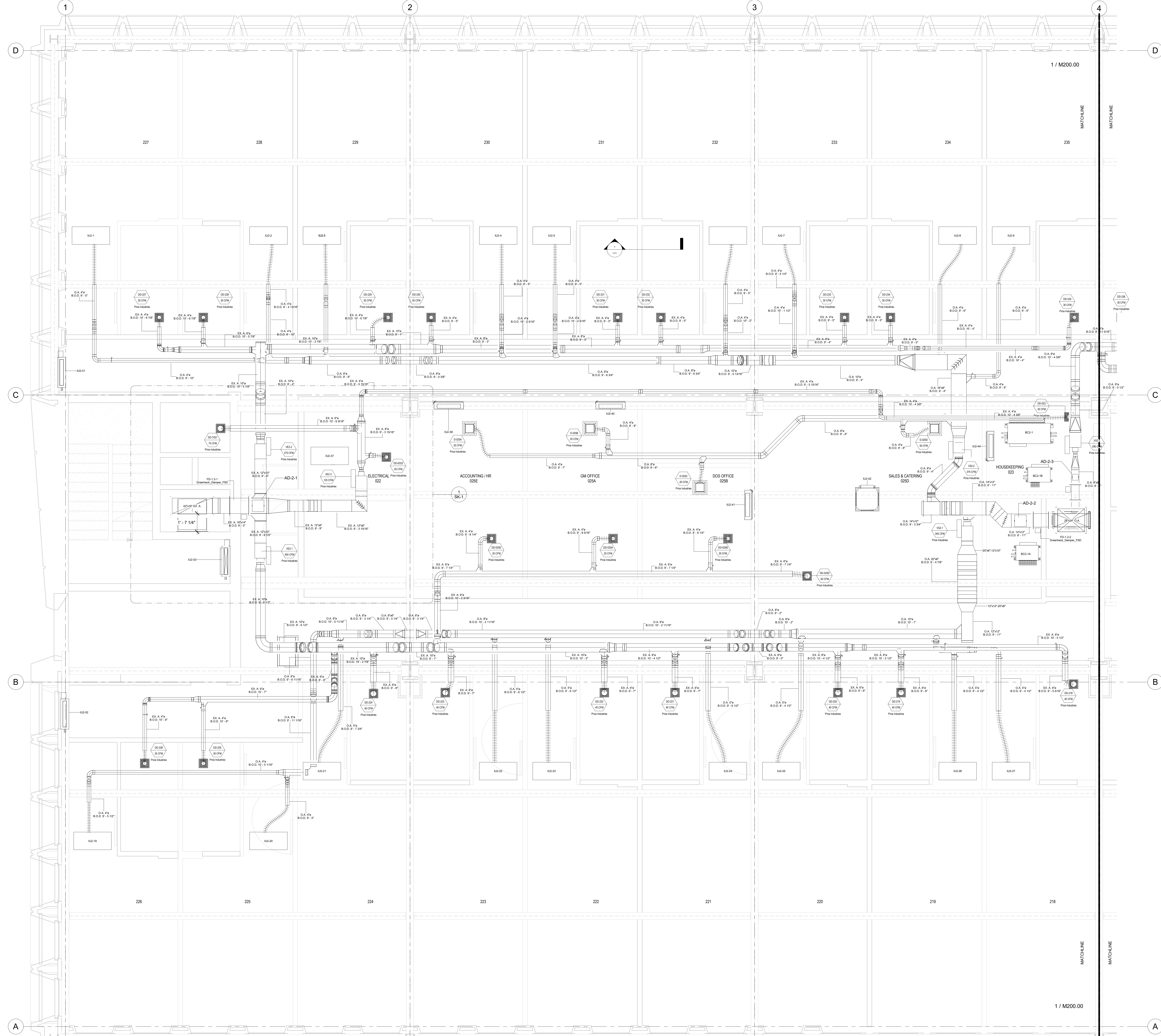
M200.00



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
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PLAN NORTH →

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No.	Description	Date
0	AS-BUILT	6/20/2022

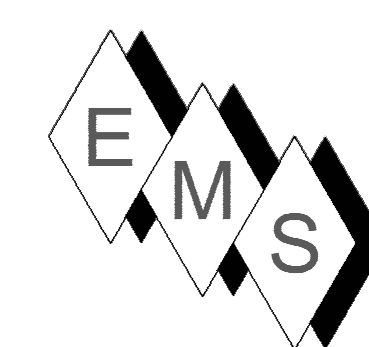
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECOND FLOOR HVAC PART. PLAN SOUTH

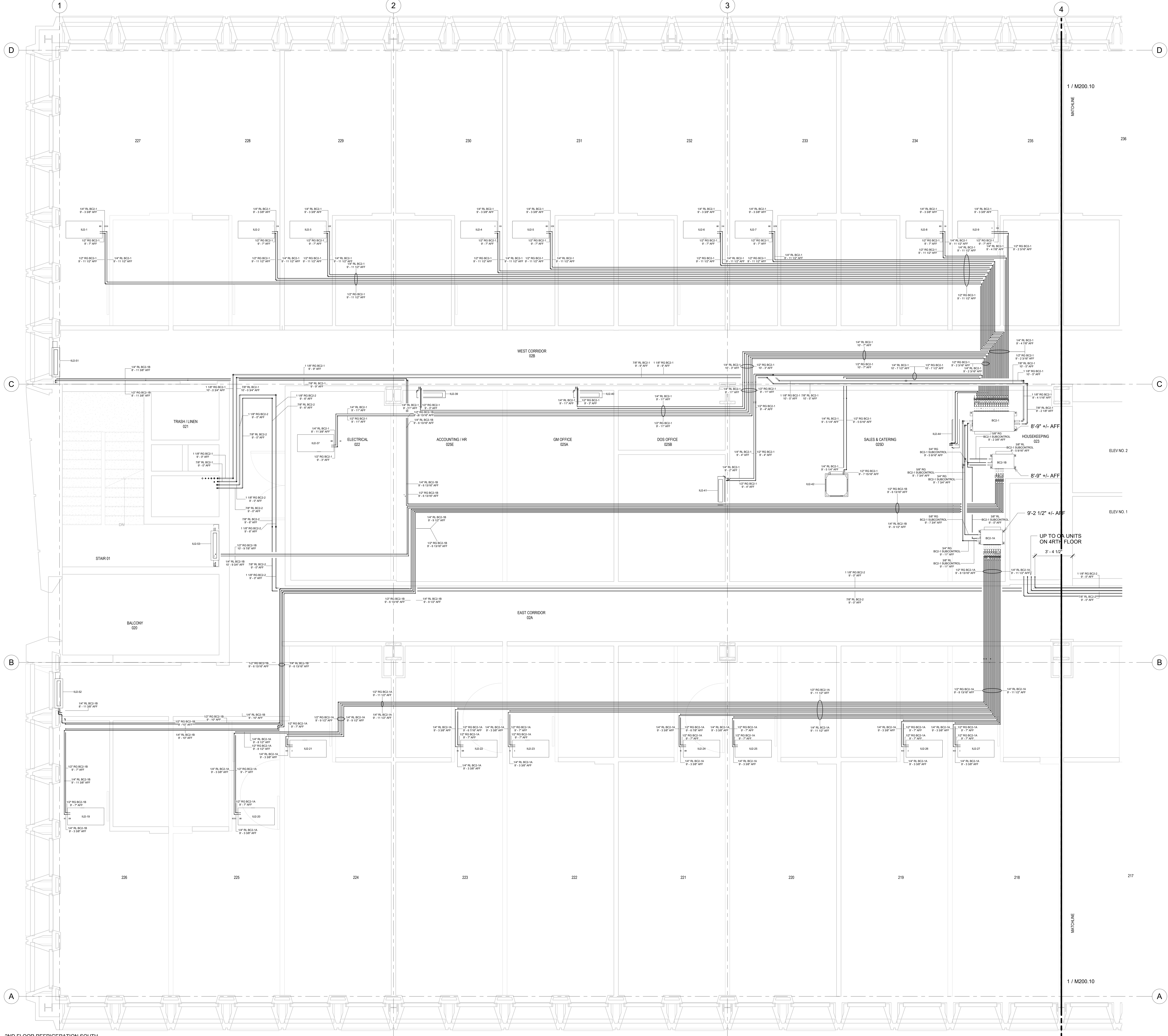
Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M200.01



EASTERN MECHANICAL SERVICES
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No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

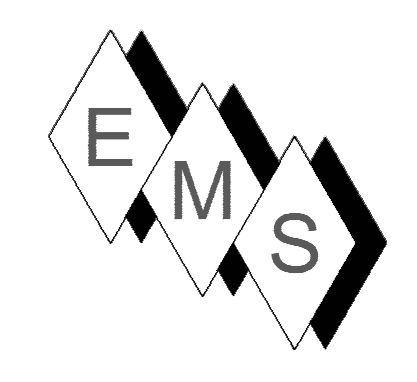
SECOND FLOOR SOUTH REFRIG. PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M200.11

2ND FLOOR REFRIGERATION SOUTH
 PART. PLAN
 3/8" = 1'-0"

10/26/2022 5:45:45 PM



EASTERN MECHANICAL SERVICES
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LEVEL 2 BC2-1 TO OU2-1 MAINS			
DESCRIPTION	DIAMETER	LENGTH	BC-CONTROLLER
OU2-1 GAS LINE	1 1/8"	160' - 11 11/16"	BC2-1
OU2-1 LIQUID LINE	7/8"	161' - 4 3/16"	BC2-1
Grand total:	34	322' - 3 11/16"	

LEVEL 2 BC2-2 TO OU2-2 MAINS			
DESCRIPTION	DIAMETER	LENGTH	BC-CONTROLLER
OU2-2 GAS LINE	1 1/8"	203' - 9 5/16"	BC2-2
OU2-2 LIQUID LINE	7/8"	204' - 6 3/16"	BC2-2
Grand total:	31	408' - 3 1/2"	

LEVEL 2 MITSUBISHI EQUIPMENT SCHEDULE				
Mark	Manufacturer	Model	Description	
BC2-1	Mitsubishi Electric	CMB-P1016NU-JA1	Mitsubishi Electric Main Branch, 16 BC Controller	
BC2-1A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Electric Sub Branch, 8 BC Controller	
BC2-1B	Mitsubishi Electric	CMB-P104NU-KB1	Mitsubishi Electric Sub Branch, 4 BC Controller	
BC2-2	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi Electric Main Branch, 16 BC Controller	
BC2-2A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Electric Sub Branch, 8 BC Controller	
BC2-2B	Mitsubishi Electric	CMB-P104NU-KB1	Mitsubishi Electric Sub Branch, 4 BC Controller	
IU2-1	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-2	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-3	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-4	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-5	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-6	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-7	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-8	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-9	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-10	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-11	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-12	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-13	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-14	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-15	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-16	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-17	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-18	Mitsubishi Electric	PMFY-P15NBMU-E	Mitsubishi Electric 15000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-19	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-20	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-21	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-22	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-23	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	

LEVEL 2 MITSUBISHI EQUIPMENT SCHEDULE				
Mark	Manufacturer	Model	Description	
IU2-24	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-25	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-26	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-27	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-28	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-29	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-30	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-31	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-32	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-33	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-34	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-35	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-36	Mitsubishi Electric	PMFY-P15NBMU-E	Mitsubishi Electric 15000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-37	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	
IU2-38	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU2-39	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-40	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-41	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-42	Mitsubishi Electric	PLFY-P05NFMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 4-Way, PLY Series Air Conditioner	
IU2-44	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-45	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-46	Mitsubishi Electric	PKFY-P18NLMU-E	Mitsubishi Electric 18000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IU2-47	Mitsubishi Electric	PLFY-EP36NEMU-E	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLY Series Air Conditioner	
IU2-48	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU2-49	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU2-51	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU2-52	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU2-53	Mitsubishi Electric	PFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IU4-2A	Mitsubishi Electric	MSZ-GL18NA-U1	Mitsubishi Electric 18000 Btu/h, Wall Mounted, M Series Air Conditioner	
IU4-2B	Mitsubishi Electric	MSZ-GL18NA-U1	Mitsubishi Electric 18000 Btu/h, Wall Mounted, M Series Air Conditioner	

LEVEL 2 EXHAUST RGD SCHEDULE		
Mark	Actual Return Air Flow	Manufacturer
DD-025E	20 CFM	Price Industries
DD-025A	20 CFM	Price Industries
DD-025B	20 CFM	Price Industries
DD-E022	20 CFM	Price Industries
DD-225	30 CFM	Price Industries
DD-210	30 CFM	Price Industries
DD-227	30 CFM	Price Industries
DD-230	30 CFM	Price Industries
DD-231	30 CFM	Price Industries
DD-232	30 CFM	Price Industries
DD-233	30 CFM	Price Industries
DD-234	30 CFM	Price Industries
DD-235	30 CFM	Price Industries
DD-236	30 CFM	Price Industries
DD-201	30 CFM	Price Industries
DD-202	30 CFM	Price Industries
DD-203	30 CFM	Price Industries
DD-204	30 CFM	Price Industries
DD-205	30 CFM	Price Industries
DD-206	30 CFM	Price Industries
DD-207	30 CFM	Price Industries
DD-229	30 CFM	Price Industries
DD-228	30 CFM	Price Industries
DD-023	30 CFM	Price Industries
DD-226	35 CFM	Price Industries
DD-209	35 CFM	Price Industries
DD-208	35 CFM	Price Industries
DD-223	40 CFM	Price Industries
DD-222	40 CFM	Price Industries
DD-221	40 CFM	Price Industries
DD-220	40 CFM	Price Industries
DD-219	40 CFM	Price Industries
DD-217	40 CFM	Price Industries
DD-216	40 CFM	Price Industries
DD-215	40 CFM	Price Industries
DD-214	40 CFM	Price Industries
DD-213	40 CFM	Price Industries
DD-212	40 CFM	Price Industries
DD-211	40 CFM	Price Industries
DD-224	40 CFM	Price Industries
DD-218	40 CFM	Price Industries
DD-IT-027	50 CFM	Price Industries
DD-025D	50 CFM	Price Industries
DD-ICE-2	50 CFM	Price Industries
DD-1021	75 CFM	Price Industries
DD-026	80 CFM	Price Industries
46		

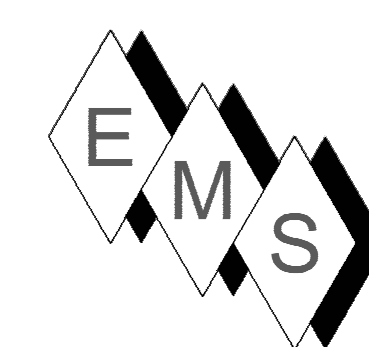
LEVEL 2 BC2-1 REFRIGERATION PIPING			
ch	DESCRIPTION	DIAMETER	LENGTH
BC2-1	IU2-1 GAS LINE	1/2"	95' - 7 7/8"
BC2-1	IU2-1 LIQUID LINE	1/4"	95' - 7 1/8"
BC2-1	IU2-2 GAS LINE	1/2"	80' - 4 11/16"
BC2-1	IU2-2 LIQUID LINE	1/4"	80' - 3 7/8"
BC2-1	IU2-3 GAS LINE	1/2"	75' - 11 1/4"
BC2-1	IU2-3 LIQUID LINE	1/4"	75' - 10 7/16"
BC2-1	IU2-4 GAS LINE	1/2"	60' - 9 7/16"
BC2-1	IU2-4 LIQUID LINE	1/4"	60' - 8 5/8"
BC2-1	IU2-5 GAS LINE	1/2"	56' - 3 15/16"
BC2-1	IU2-5 LIQUID LINE	1/4"	56' - 3 3/16"
BC2-1	IU2-6 GAS LINE	1/2"	41' - 2 1/8"
BC2-1	IU2-6 LIQUID LINE	1/4"	41' - 1 5/16"
BC2-1	IU2-7 GAS LINE	1/2"	36' - 8 11/16"
BC2-1	IU2-7 LIQUID LINE	1/4"	36' - 7 7/8"
BC2-1	IU2-8 GAS LINE	1/2"	21' - 8 9/16"
BC2-1	IU2-8 LIQUID LINE	1/4"	21' - 7 15/16"
BC2-1	IU2-9 GAS LINE	1/2"	16' - 9 5/16"
BC2-1	IU2-9 LIQUID LINE	1/4"	16' - 1 9/16"
BC2-1	IU2-10 GAS LINE	1/2"	12' - 3 1/16"
BC2-1	IU2-10 LIQUID LINE	1/4"	12' - 2 1/8"
BC2-1	IU2-11 GAS LINE	1/2"	65' - 8 15/16"
BC2-1	IU2-11 LIQUID LINE	1/4"	65' - 10 1/2"
BC2-1	IU2-12 GAS LINE	1/2"	51' - 7 13/16"
BC2-1	IU2-12 LIQUID LINE	1/4"	51' - 9 7/8"
BC2-1	IU2-13 GAS LINE	1/2"	38' - 3 15/16"
BC2-1	IU2-13 LIQUID LINE	1/4"	37' - 11 11/16"
BC2-1	IU2-14 GAS LINE	1/2"	24' - 5"
BC2-1	IU2-14 LIQUID LINE	1/4"	24' - 10 5/16"
BC2-1	IU2-15 GAS LINE	1/2"	8' - 6 5/8"
BC2-1	IU2-15 LIQUID LINE	1/4"	8' - 7 13/16"
Grand total:	254		1492' - 7 3/8"

LEVEL 2 BC2-2 REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC2-2	IU2-10 GAS LINE	1/2"	38' - 8 5/16"
BC2-2	IU2-10 LIQUID LINE	1/4"	38' - 11 7/8"
BC2-2	IU2-11 GAS LINE	1/2"	34' - 2 7/8"
BC2-2	IU2-11 LIQUID LINE	1/4"	34' - 6 7/16"
BC2-2	IU2-12 GAS LINE	1/2"	29' - 9 7/16"
BC2-2	IU2-12 LIQUID LINE	1/4"	30' - 7 1/8"
BC2-2	IU2-13 GAS LINE	1/2"	34' - 4 5/16"
BC2-2	IU2-13 LIQUID LINE	1/4"	35' - 2"
BC2-2	IU2-14 GAS LINE	1/2"	49' - 4 3/4"
BC2-2	IU2-14 LIQUID LINE	1/4"	50' - 1 11/16"
BC2-2	IU2-15 GAS LINE	1/2"	53' - 11 9/16"
BC2-2	IU2-15 LIQUID LINE	1/4"	54' - 8 9/16"
BC2-2	IU2-16 GAS LINE	1/2"	69' - 1 3/8"
BC2-2	IU2-16 LIQUID LINE	1/4"	69' - 10 3/8"
BC2-2	IU2-17 GAS LINE	1/2"	73' - 6 13/16"
BC2-2	IU2-17 LIQUID LINE	1/4"	74' - 4 9/16"
BC2-2	IU2-18 GAS LINE	1/2"	88' - 10 5/16"
BC2-2	IU2-18 LIQUID LINE	1/4"	89' - 8 3/8"
BC2-2	IU2-45 GAS LINE	1/2"	23' - 3"
BC2-2	IU2-45 LIQUID LINE	1/4"	23' - 1 11/16"
BC2-2	IU2-46 GAS LINE	1/2"	23' - 5"
BC2-2	IU2-46 LIQUID LINE	1/4"	22' - 3 3/8"
BC2-2	IU2-47 GAS LINE	1/2"	42' - 2 13/16"
BC2-2	IU2-47 LIQUID LINE	1/4"	41' - 1 5/8"
Grand total:	190		1126' - 1 3/8"

LEVEL 2 BC2-2A REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC2-2A	IU2-28 GAS LINE	1/2"	31' - 9 1/16"
BC2-2A	IU2-28 LIQUID LINE	1/4"	33' - 5 3/4"
BC2-2A	IU2-29 GAS LINE	1/2"	27' - 1 11/16"
BC2-2A	IU2-29 LIQUID LINE	1/4"	28' - 2 1/8"
BC2-2A	IU2-30 GAS LINE	1/2"	17' - 2 15/16"
BC2-2A	IU2-30 LIQUID LINE	1/4"	17' - 0 9/16"
BC2-2A	IU2-31 GAS LINE	1/2"	21' - 10 13/16"
BC2-2A	IU2-31 LIQUID LINE	1/4"	21' - 8 3/4"
BC2-2A	IU2-32 GAS LINE	1/2"	36' - 10 3/16"
BC2-2A	IU2-32 LIQUID LINE	1/4"	38' - 1 1/4"
BC2-2A	IU2-33 GAS LINE	1/2"	41' - 9 7/16"
BC2-2A	IU2-33 LIQUID LINE	1/4"	41' - 4 1/8"
BC2-2A	IU2-34 GAS LINE	1/2"	56' - 4 7/8"
BC2-2A	IU2-34 LIQUID LINE	1/4"	56' - 11 5/8"
BC2-2A	IU2-35 GAS LINE	1/2"	67' - 2 7/8"
BC2-2A	IU2-35 LIQUID LINE	1/4"	67' - 9 5/8"
Grand total:	56		604' - 11 1/8"

LEVEL 2 BC2-2B REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC2-2B	IU2-36 GAS LINE	1/2"	81' - 1 1/4"
BC2-2B	IU2-36 LIQUID LINE	1/4"	81' - 9 5/16"
BC2-2B	IU2-38 GAS LINE	1/2"	90' - 7 3/4"
BC2-2B	IU2-38 LIQUID LINE	1/4"	89' - 5 3/8"
BC2-2B	IU2-48 GAS LINE	1/2"	92' - 6 11/16"
BC2-2B	IU2-48 LIQUID LINE	1/4"	92' - 1 11/16"
BC2-2B	IU2-49 GAS LINE	1/2"	84' - 9 7/8"
BC2-2B	IU2-49 LIQUID LINE	1/4"	85' - 3"
Grand total:	96		697' - 8 5/16"

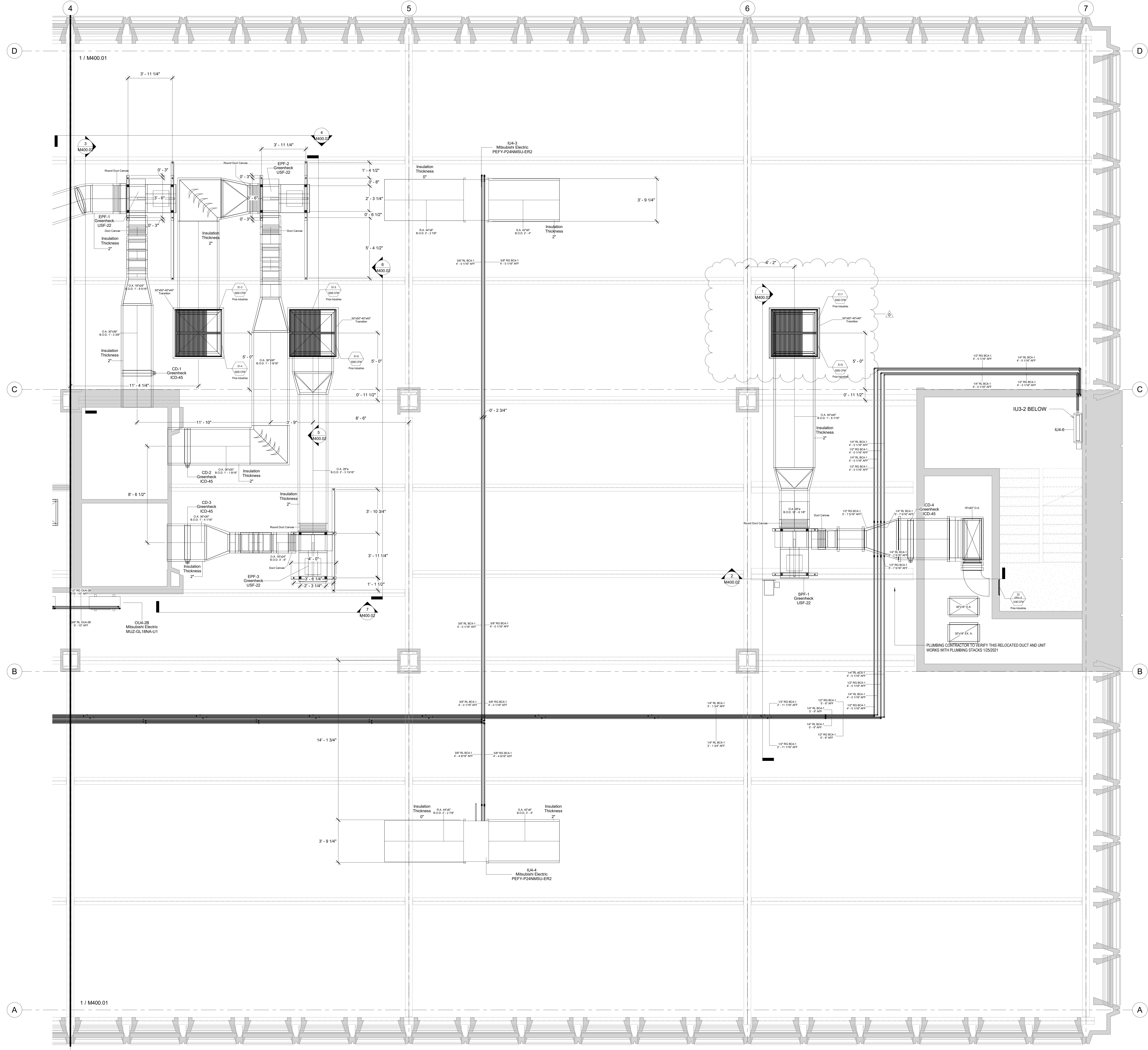
LEVEL 2 BC2-1A REFRIGERATION PIPING			
BC Controller	Description	Diameter	Length
BC2-1A	IU2-20 GAS LINE	1/2"	90' - 9 1/16"
BC2-1A	IU2-20 LIQUID LINE	1/4"	91' - 2 7/16"
BC2-1A	IU2-21 GAS LINE	1/2"	80' - 2 5/8"
BC2-1A	IU2-21 LIQUID LINE	1/4"	80' - 9 9/16"
BC2-1A	IU2-22 GAS LINE	1/2"	65' - 6 9/16"
BC2-1A	IU2-22 LIQUID LINE	1/4"	66' - 0 3/8"
BC2-1A	IU2-23 GAS LINE	1/2"	60' - 11 3/16"
BC2-1A	IU2-23 LIQUID LINE	1/4"	61' - 4 11/16"
BC2-1A	IU2-24 GAS LINE	1/2"	45' - 10 1/16"
BC2-1A	IU2-24 LIQUID LINE	1/4"	46' - 2



EASTERN MECHANICAL SERVICES
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PLAN NORTH →

NOTE:
 1) VRF HVAC SYSTEM WAS DOWN SIZED PER UN CONSULTING BASED ON IMPROVED HEAT LOSS / HEAT GAIN CALCULATIONS/ CONDITIONS.
 2) OUA-2 IS NOT NEEDED FOR THE LEVEL 4 SYSTEM. HOWEVER, BASED ON THE NEED TO REMOVE INDOOR UNITS OFF LEVELS 5, 6 AND 7 DUE TO OVER CONNECTED CAPACITY FOR THOSE LEVELS, OUA-2 WILL BE REPURPOSED TO SERVE THE STARWELL UNITS FOR HEATING.



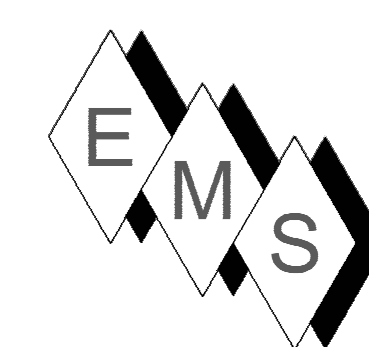
No.	Description	Date
0	FA Intake Clash Pib	3/12/2021
1	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

**FOURTH FLOOR NORTH
 HVAC PART. PLAN**

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

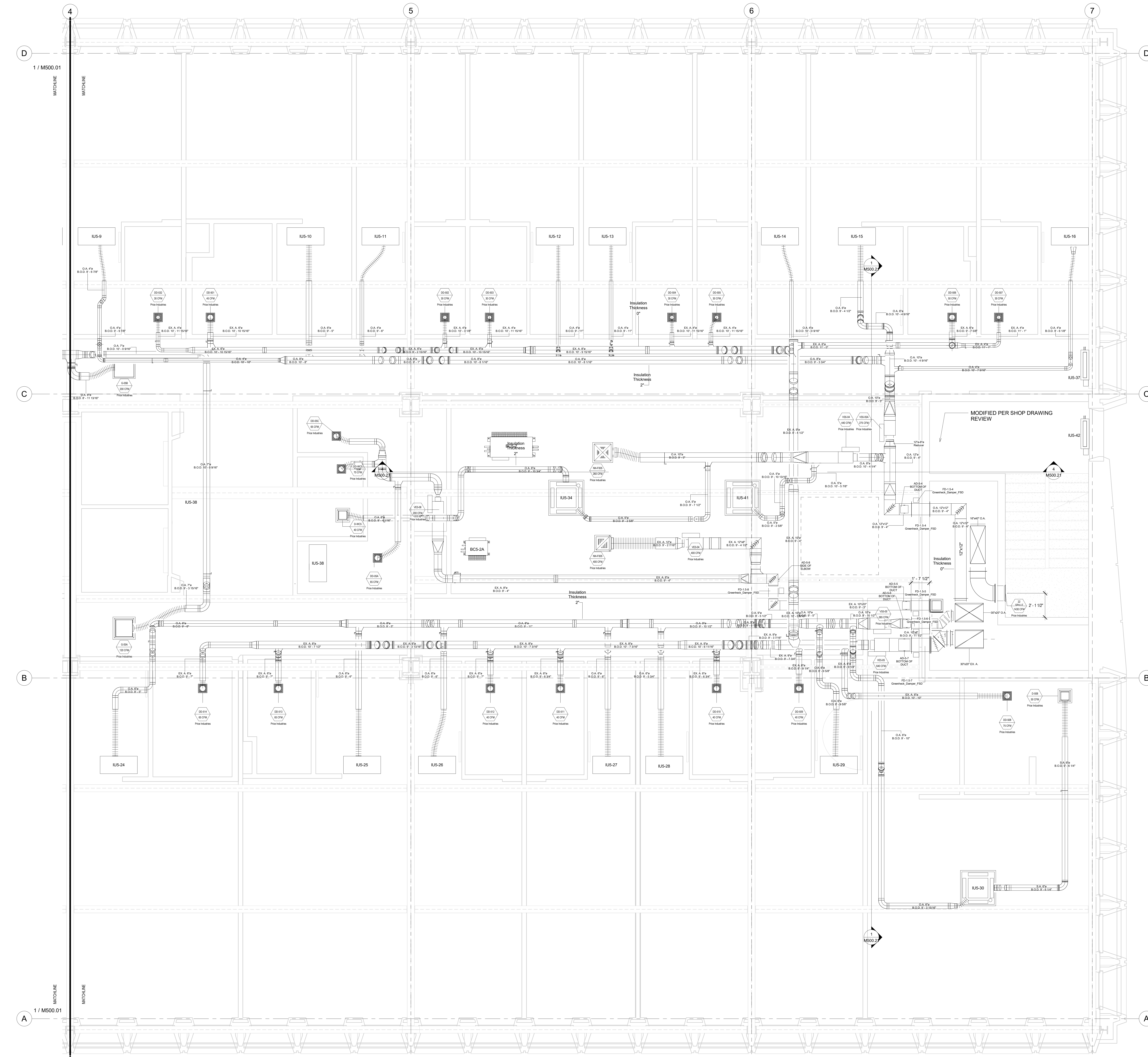
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PLAN NORTH →

- NOTE:**
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 - 2) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 3) EMS RESERVES THE RIGHT TO CONVERT ALL DUCTS TO ROUND, RECTANGULAR OR OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES.
 - 4) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 5) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINTING METHOD IS N2 PURGE AND BRAZED JOINTS. ALL MANS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 6) CEILING ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 7. CEILING ACCESS IS REQUIRED TO ALL FIRE SMOKE DAMPERS (FD-1), SMOKE DAMPERS (SD-1) AND ALL VOLUME DAMPERS. GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.



No.	Description	Date
0	AS-BUILT	6/20/2022

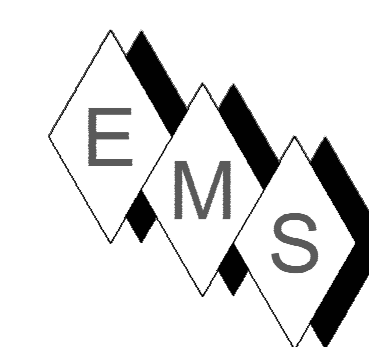
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIFTH FLOOR NORTH HVAC PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By GM

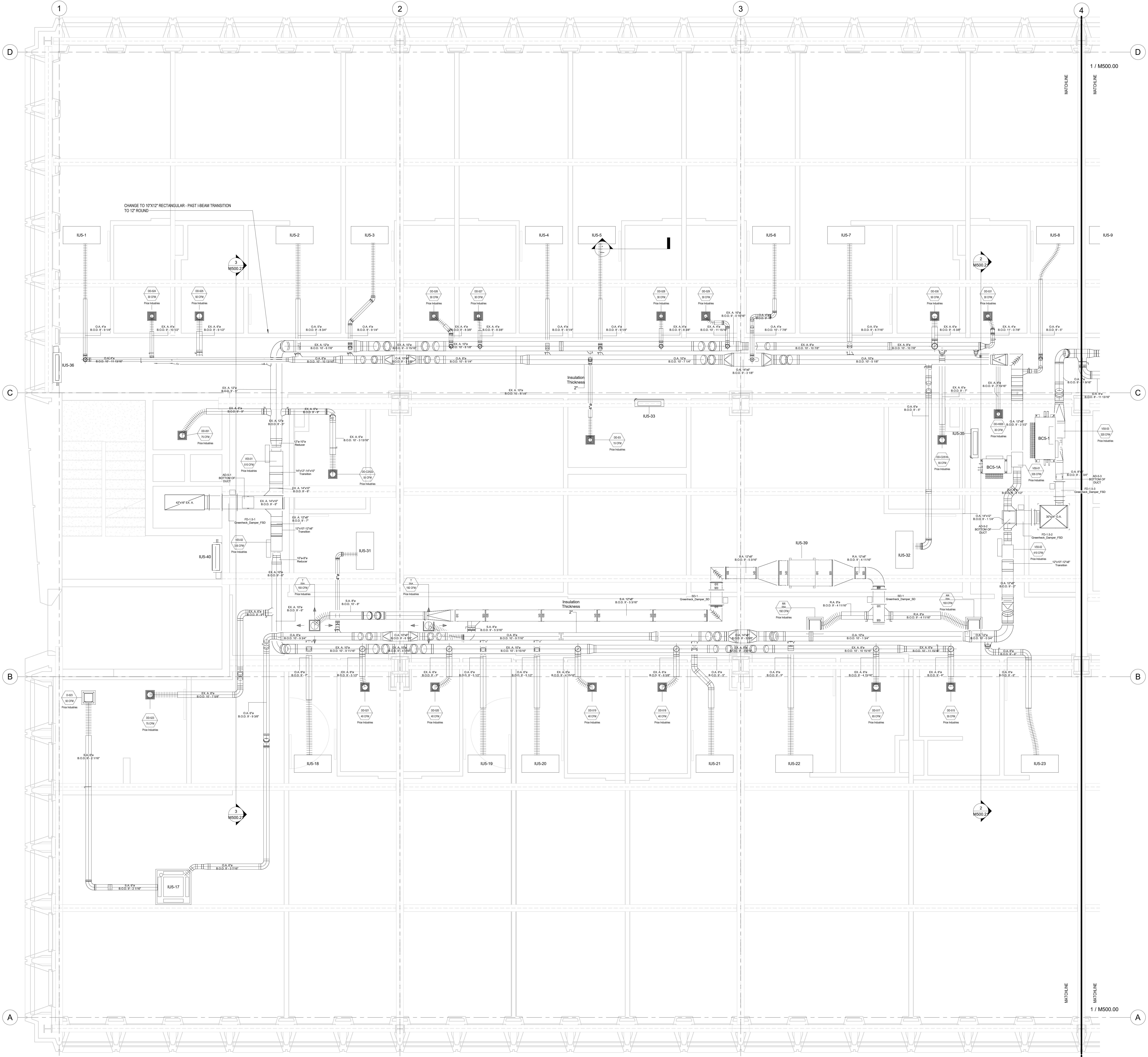
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PLAN NORTH →

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 - 2) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1 X DIA. RADIUS BEND.
 - 3) EMS RESERVES THE RIGHT TO CONVERT ALL DUCTS TO ROUND, RECTANGULAR OR OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES.
 - 4) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 5) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLER IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 6) CEILING ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 7) CEILING ACCESS IS REQUIRED TO ALL FIRE SMOKE DAMPERS (FD-1), SMOKE DAMPERS (SD-1) AND ALL VOLUME DAMPERS. GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.



No.	Description	Date
0	AS-BUILT	6/20/2022

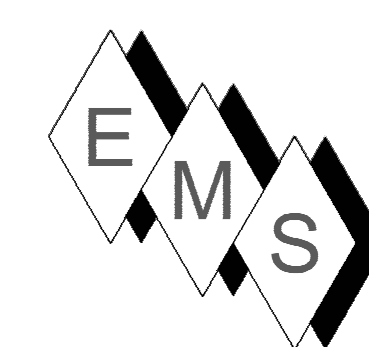
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIFTH FLOOR SOUTH HVAC PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By GM

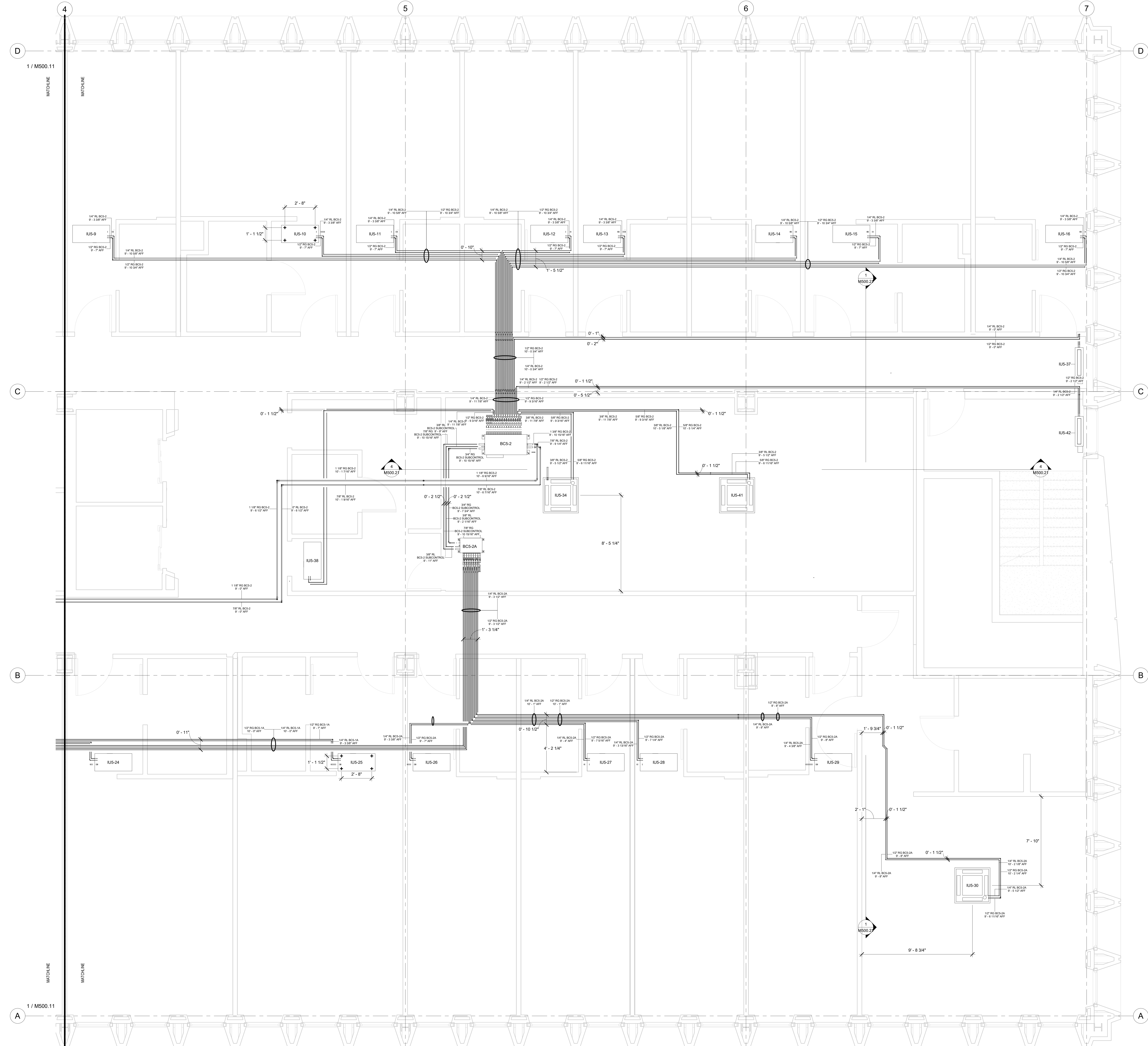
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PLAN NORTH →

- NOTE:**
- 1) REFRIGERATION PIPING SIZES AND LENGTHS AS SHOWN IN THIS SHOP DRAWING AND ON PIPING SCHEDULES CONFORM TO MITSUBISHI DESIGN CRITERIA FOR PROPER FUNCTIONALITY OF THE VRF SYSTEM.
 - 2) DUCT STANDARDS ARE PER THE APPROVED SMCMA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 3) EMS RESERVES THE RIGHT TO CONVERT ALL DUCTS TO ROUND, RECTANGULAR OR OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES.
 - 4) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 5) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MANIF. ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 6) CEILING ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS (TABLES) AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 7. CEILING ACCESS IS REQUIRED TO ALL FIRE SMOKE DAMPERS (FD-1), SMOKE DAMPERS (SD-1) AND ALL VOLUME DAMPERS. GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.



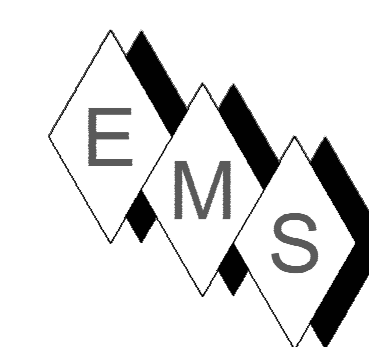
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

FIFTH FLOOR NORTH
 REFRIG. PIPING PART.
 PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

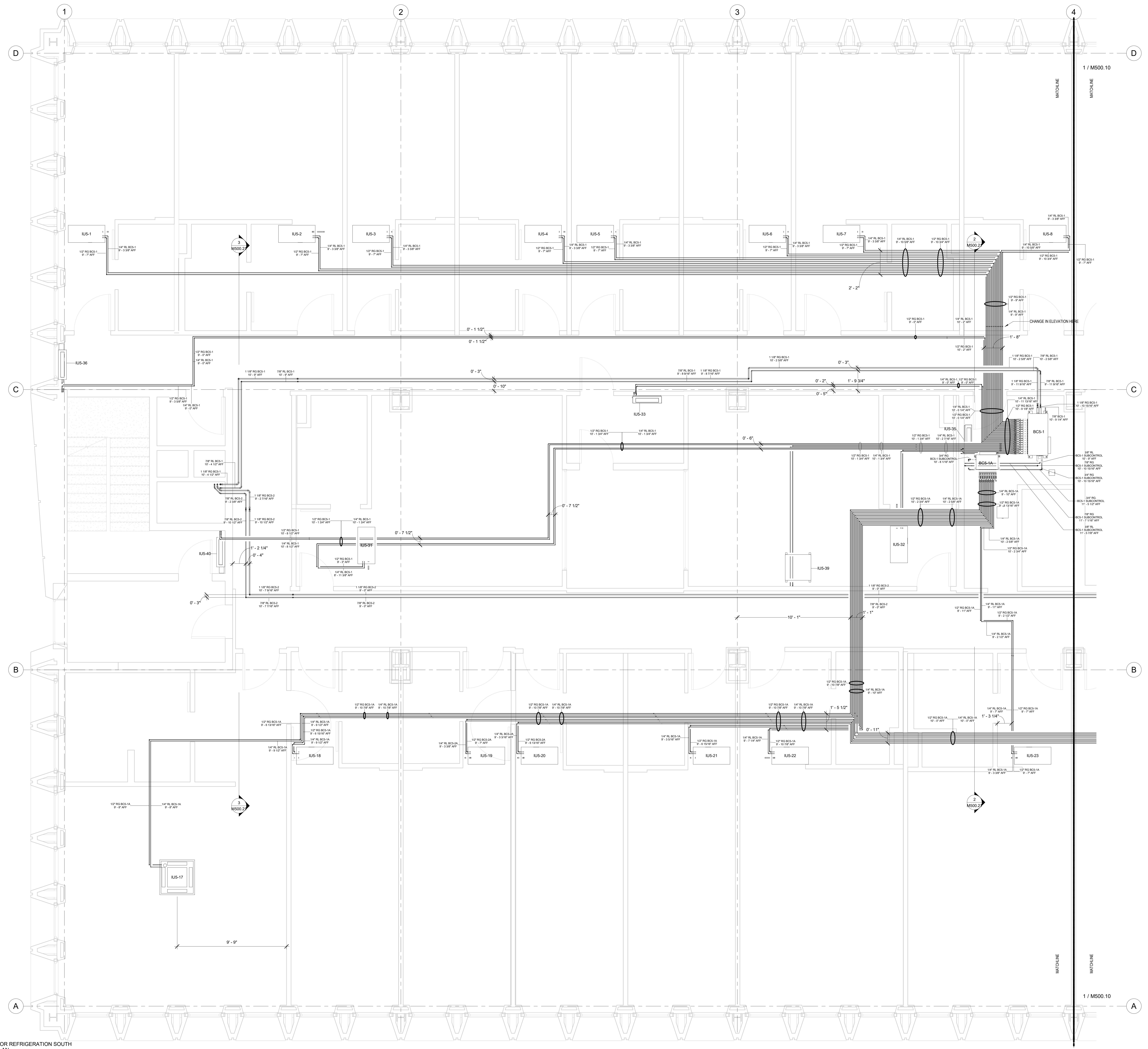
M500.10



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
- 1) REFRIGERATION PIPING SIZES AND LENGTHS AS SHOWN IN THIS SHOP DRAWING AND ON PIPING SCHEDULES CONFORM TO MITSUBISHI DESIGN CRITERIA FOR PROPER FUNCTIONALITY OF THE VRF SYSTEM.
 - 2) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 3) EMS RESERVES THE RIGHT TO CONVERT ALL DUCTS TO ROUND, RECTANGULAR OR OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES.
 - 4) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 5) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 6) CEILING ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THROUGHOUT AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 7. CEILING ACCESS IS REQUIRED TO ALL FIRE SMOKE DAMPERS (FD-1), SMOKE DAMPERS (SD-1) AND ALL VOLUME DAMPERS. GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.



No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

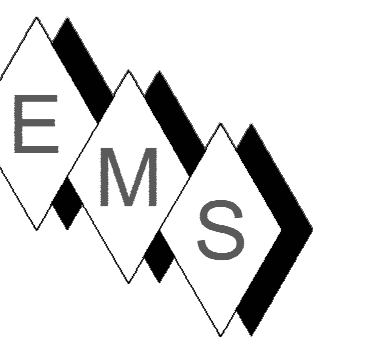
FIFTH FLOOR SOUTH REFRIG. PIPING PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

M500.11

5TH FLOOR REFRIGERATION SOUTH
 PART. PLAN
 3/8" = 1'-0"

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3 Starr Street, Danbury, CT 06810
Ph. 203.792.7668 www.emsinc.us

NOTE:

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- ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINTING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
- CEILING ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
- CEILING ACCESS IS REQUIRED TO ALL FIRE SMOKE DAMPERS (FD-1), SMOKE DAMPERS (SD-1) AND ALL VOLUME DAMPERS. GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.

LEVEL 5 BC5-1 TO OUS-1 MAINS		
DESCRIPTION	DIAMETER	LENGTH
OUS-1 GAS LINE	1 1/8"	187' - 9 1/4"
OUS-1 LIQUID LINE	7/8"	190' - 5 5/8"
Grand total: 54		378' - 2 7/8"

LEVEL 5 BC5-2 TO OUS-2 MAINS		
DESCRIPTION	DIAMETER	LENGTH
OUS-2 GAS LINE	1 1/8"	244' - 5 1/16"
OUS-2 GAS LINE	1 3/8"	0' - 2 1/2"
OUS-2 LIQUID LINE	7/8"	246' - 1 1/16"
OUS-2 LIQUID LINE	1 3/8"	0' - 2 7/16"
Grand total: 70		490' - 11 1/16"

LEVEL 5 BC5-1 REFRIGERATION PIPING			
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
BC5-1	IUS-1 GAS LINE	1/2"	99' - 2 7/16"
BC5-1	IUS-1 LIQUID LINE	1/4"	100' - 4 1/8"
BC5-1	IUS-2 GAS LINE	1/2"	80' - 7 3/16"
BC5-1	IUS-2 LIQUID LINE	1/4"	81' - 6 9/16"
BC5-1	IUS-3 GAS LINE	1/2"	73' - 10 13/16"
BC5-1	IUS-3 LIQUID LINE	1/4"	74' - 7 7/8"
BC5-1	IUS-4 GAS LINE	1/2"	57' - 10 3/8"
BC5-1	IUS-4 LIQUID LINE	1/4"	59' - 1 3/8"
BC5-1	IUS-5 GAS LINE	1/2"	53' - 0 9/16"
BC5-1	IUS-5 LIQUID LINE	1/4"	54' - 3 1/16"
BC5-1	IUS-6 GAS LINE	1/2"	37' - 6 1/8"
BC5-1	IUS-6 LIQUID LINE	1/4"	38' - 2 5/8"
BC5-1	IUS-7 GAS LINE	1/2"	31' - 3 3/16"
BC5-1	IUS-7 LIQUID LINE	1/4"	31' - 10 7/8"
BC5-1	IUS-8 GAS LINE	1/2"	24' - 1 9/16"
BC5-1	IUS-8 LIQUID LINE	1/4"	25' - 6"
BC5-1	IUS-31 GAS LINE	1/2"	78' - 3 1/16"
BC5-1	IUS-31 LIQUID LINE	1/4"	78' - 8 1/4"
BC5-1	IUS-32 GAS LINE	1/2"	17' - 8 7/16"
BC5-1	IUS-32 LIQUID LINE	1/4"	18' - 0 3/8"
BC5-1	IUS-33 GAS LINE	1/2"	42' - 1 7/8"
BC5-1	IUS-33 LIQUID LINE	1/4"	42' - 9 1/8"
BC5-1	IUS-35 GAS LINE	1/2"	8' - 4 1/8"
BC5-1	IUS-35 LIQUID LINE	1/4"	8' - 5 1/2"
BC5-1	IUS-36 GAS LINE	1/2"	108' - 9 9/16"
BC5-1	IUS-36 LIQUID LINE	1/4"	109' - 0 1/4"
BC5-1	IUS-39 GAS LINE	1/2"	33' - 10 7/16"
BC5-1	IUS-39 LIQUID LINE	1/4"	33' - 10 11/16"
BC5-1	IUS-40 GAS LINE	1/2"	89' - 4 9/16"
BC5-1	IUS-40 LIQUID LINE	1/4"	89' - 10 3/4"
Grand total: 221			1682' - 6 13/16"

LEVEL 5 BC5-2 REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC5-2	IUS-9 GAS LINE	1/2"	50' - 10 7/16"
BC5-2	IUS-9 LIQUID LINE	1/4"	51' - 2 1/2"
BC5-2	IUS-10 GAS LINE	1/2"	32' - 7 5/8"
BC5-2	IUS-10 LIQUID LINE	1/4"	33' - 0 1/8"
BC5-2	IUS-11 GAS LINE	1/2"	26' - 3 3/16"
BC5-2	IUS-11 LIQUID LINE	1/4"	26' - 7 1/4"
BC5-2	IUS-12 GAS LINE	1/2"	22' - 9 3/16"
BC5-2	IUS-12 LIQUID LINE	1/4"	23' - 7"
BC5-2	IUS-13 GAS LINE	1/2"	27' - 4 5/8"
BC5-2	IUS-13 LIQUID LINE	1/4"	28' - 2 3/8"
BC5-2	IUS-14 GAS LINE	1/2"	42' - 3 1/2"
BC5-2	IUS-14 LIQUID LINE	1/4"	43' - 1 7/16"
BC5-2	IUS-15 GAS LINE	1/2"	50' - 0 3/16"
BC5-2	IUS-15 LIQUID LINE	1/4"	50' - 10 1/16"
BC5-2	IUS-16 GAS LINE	1/2"	67' - 4 1/2"
BC5-2	IUS-16 LIQUID LINE	1/4"	68' - 2 7/16"
BC5-2	IUS-34 GAS LINE	5/8"	11' - 3 5/16"
BC5-2	IUS-34 LIQUID LINE	3/8"	10' - 11 1/4"
BC5-2	IUS-37 GAS LINE	1/2"	66' - 6 13/16"
BC5-2	IUS-37 LIQUID LINE	1/4"	66' - 5 1/2"
BC5-2	IUS-38 GAS LINE	1/2"	33' - 1 13/16"
BC5-2	IUS-38 LIQUID LINE	1/4"	33' - 8 5/8"
BC5-2	IUS-41 LIQUID LINE	3/8"	27' - 11 7/16"
BC5-2	IUS-41 GAS LINE	5/8"	28' - 7 3/16"
BC5-2	IUS-42 GAS LINE	1/2"	62' - 10 9/16"
BC5-2	IUS-42 LIQUID LINE	1/4"	62' - 9 9/16"
Grand total: 225			1048' - 8 9/16"

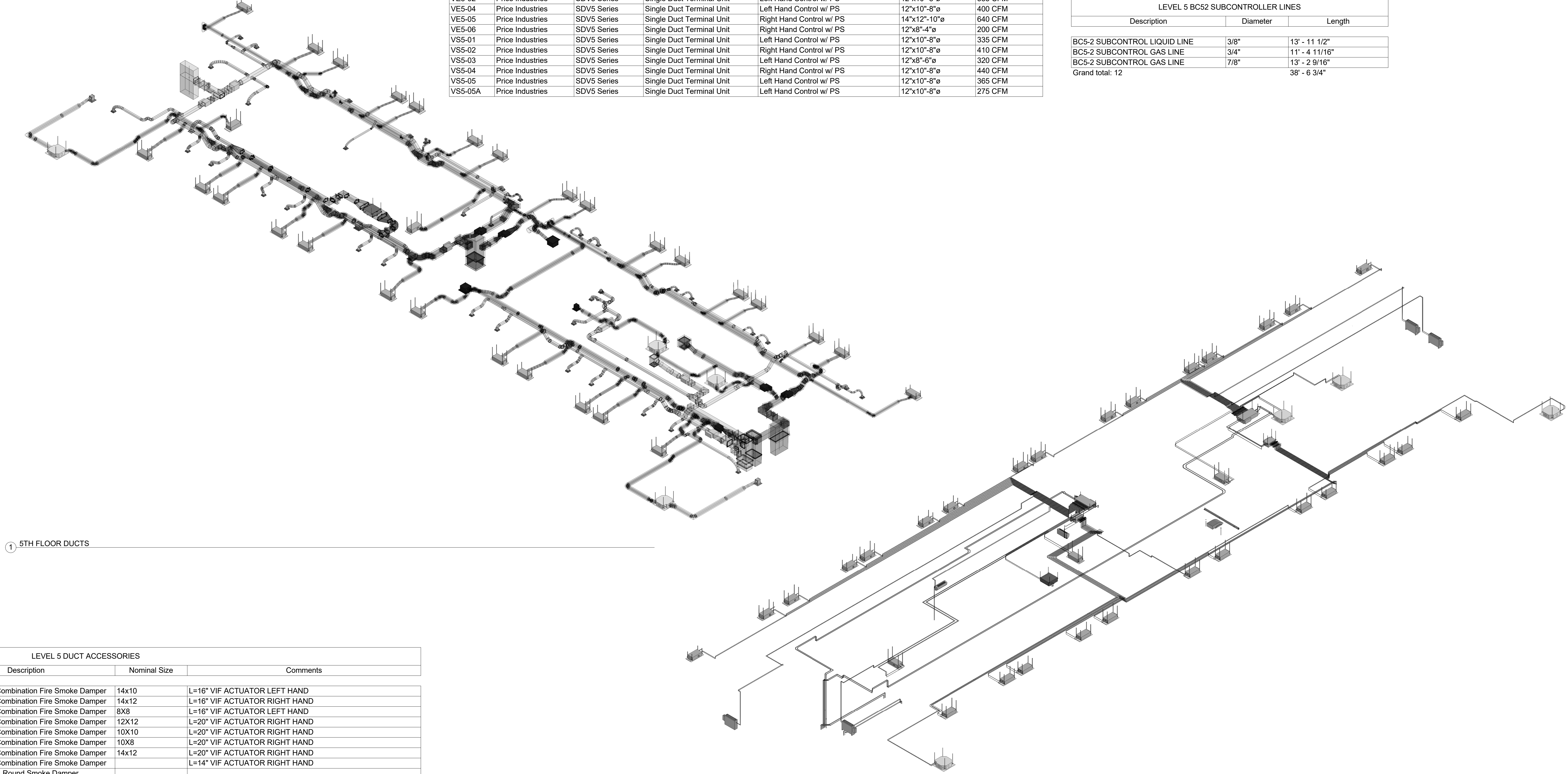
LEVEL 5 BC5-1A REFRIGERATION PIPING			
BC Controller	Description	Diameter	Length
BC5-1A	IUS-17 GAS LINE	1/2"	110' - 6 5/8"
BC5-1A	IUS-17 LIQUID LINE	1/4"	110' - 9 15/16"
BC5-1A	IUS-18 GAS LINE	1/2"	88' - 11 7/8"
BC5-1A	IUS-18 LIQUID LINE	1/4"	88' - 2 5/16"
BC5-1A	IUS-21 GAS LINE	1/2"	52' - 6 9/16"
BC5-1A	IUS-21 LIQUID LINE	1/4"	53' - 8 11/16"
BC5-1A	IUS-22 GAS LINE	1/2"	45' - 7 1/4"
BC5-1A	IUS-22 LIQUID LINE	1/4"	46' - 2 7/8"
BC5-1A	IUS-23 GAS LINE	1/2"	30' - 2 1/2"
BC5-1A	IUS-23 LIQUID LINE	1/4"	30' - 8 5/8"
BC5-1A	IUS-24 GAS LINE	1/2"	59' - 9 11/16"
BC5-1A	IUS-24 LIQUID LINE	1/4"	60' - 4"
BC5-1A	IUS-25 GAS LINE	1/2"	80' - 11 1/2"
BC5-1A	IUS-25 LIQUID LINE	1/4"	81' - 6 3/4"
Grand total: 162			938' - 3 1/8"

LEVEL 5 BC5-2A REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC5-2A	IUS-19 GAS LINE	1/2"	109' - 8 15/16"
BC5-2A	IUS-19 LIQUID LINE	1/4"	112' - 4 1/8"
BC5-2A	IUS-20 GAS LINE	1/2"	105' - 9 3/8"
BC5-2A	IUS-20 LIQUID LINE	1/4"	108' - 0 15/16"
BC5-2A	IUS-26 GAS LINE	1/2"	21' - 11 3/8"
BC5-2A	IUS-26 LIQUID LINE	1/4"	24' - 6 11/16"
BC5-2A	IUS-27 GAS LINE	1/2"	27' - 9 1/8"
BC5-2A	IUS-27 LIQUID LINE	1/4"	28' - 9 9/16"
BC5-2A	IUS-28 GAS LINE	1/2"	32' - 3 5/16"
BC5-2A	IUS-28 LIQUID LINE	1/4"	34' - 3 7/16"
BC5-2A	IUS-29 GAS LINE	1/2"	47' - 6 3/4"
BC5-2A	IUS-29 LIQUID LINE	1/4"	48' - 11 13/16"
BC5-2A	IUS-30 GAS LINE	1/2"	77' - 7 1/16"
BC5-2A	IUS-30 LIQUID LINE	1/4"	78' - 8 1/16"
Grand total: 124			859' - 4 1/2"

LEVEL 5 DUCT ACCESSORIES					
Mark	Manufacturer	Description	Nominal Size	Comments	
FD-1-5-1	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	14x10	L=16" VIF ACTUATOR LEFT HAND	
FD-1-5-2	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	14x12	L=16" VIF ACTUATOR RIGHT HAND	
FD-1-5-3	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	8X8	L=16" VIF ACTUATOR LEFT HAND	
FD-1-5-4	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	12X12	L=20" VIF ACTUATOR RIGHT HAND	
FD-1-5-5	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	10X10	L=20" VIF ACTUATOR RIGHT HAND	
FD-1-5-6	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	10X8	L=20" VIF ACTUATOR RIGHT HAND	
FD-1-5-7	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper	14x12	L=20" VIF ACTUATOR RIGHT HAND	
FD-1-5-8	Greenheck Fan Corporation	FSD-311 Class I Combination Fire Smoke Damper		L=14" VIF ACTUATOR RIGHT HAND	
IU1-31	Greenheck Fan Corporation	SMDR-501 Class I Round Smoke Damper			
IU1-32	Greenheck Fan Corporation	SMDR-501 Class I Round Smoke Damper			
SD-1	Greenheck Fan Corporation	Smoke Damper			
SD-1	Greenheck Fan Corporation	Smoke Damper			

① 5TH FLOOR DUCTS

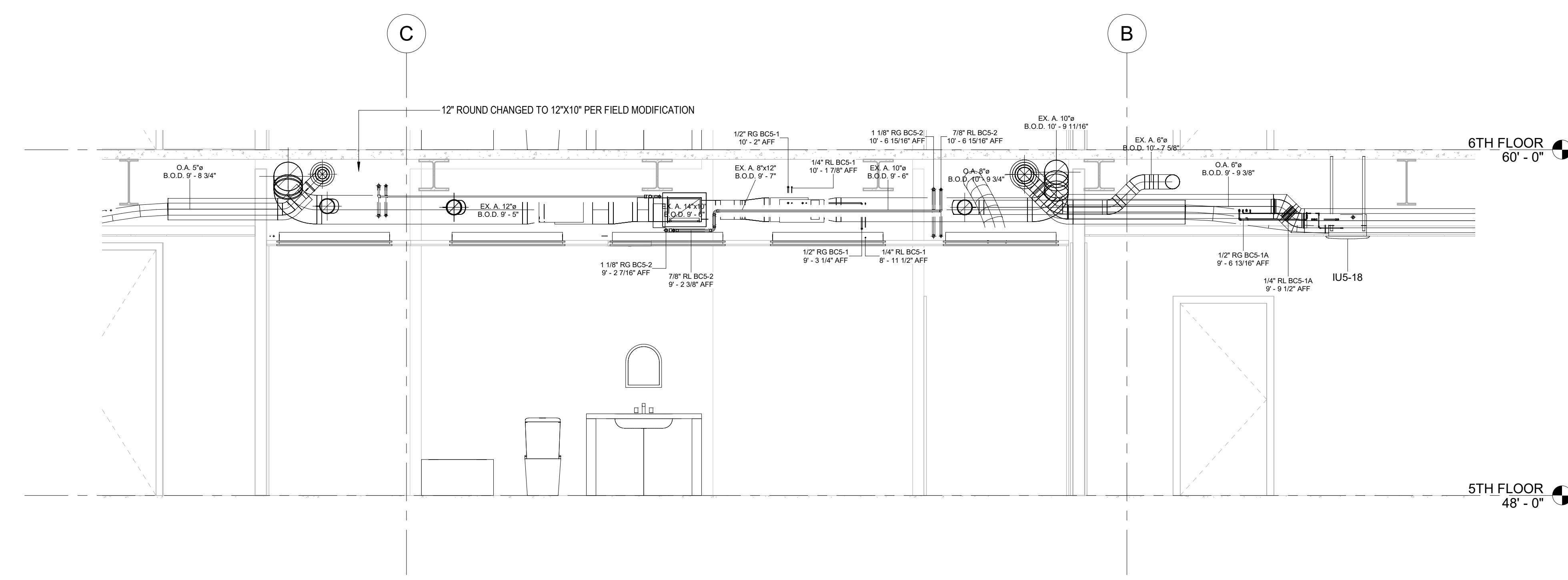
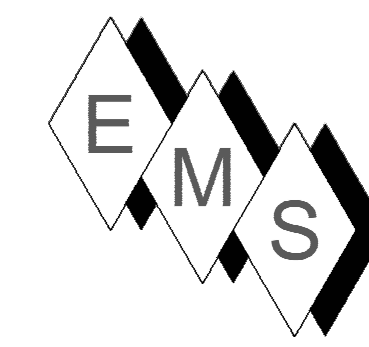
② 5TH FLOOR REFRIG PIPING



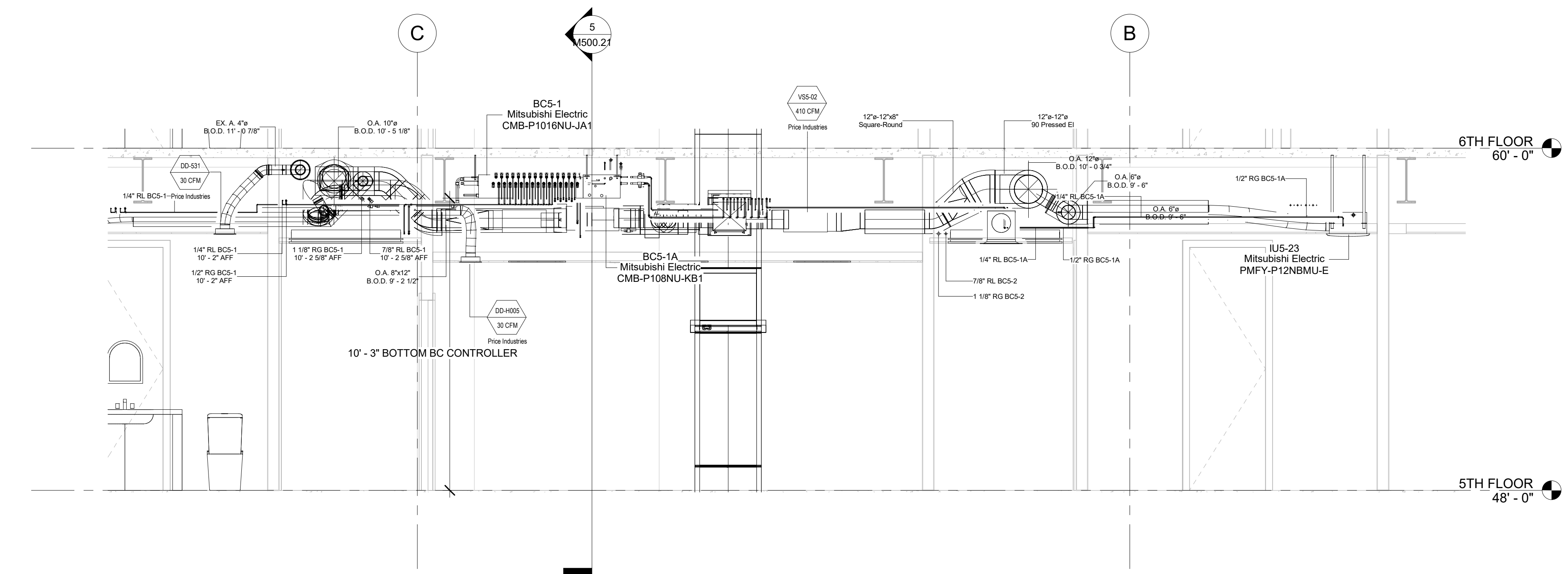
LEVEL 5 MITSUBISHI EQUIPMENT SCHEDULE					
Mark	Manufacturer	Model	Level	Comments	
BC5-1	Mitsubishi Electric	CMB-P1016NU-JA1	5TH FLOOR	Mitsubishi BC Controller	
BC5-1A	Mitsubishi Electric	CMB-P108NU-KB1	5TH FLOOR	Mitsubishi Sub-BC Controller	
BC5-2	Mitsubishi Electric	CMB-P1016NU-KA1	5TH FLOOR	Mitsubishi BC Controller	
BC5-2A	Mitsubishi Electric	CMB-P108NU-KB1	5TH FLOOR	Mitsubishi Sub-BC Controller	
IUS-1	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-2	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-3	Mitsubishi Electric	PMFY-P06NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h	
IUS-4	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-5	Mitsubishi Electric	PMFY-P06NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h	
IUS-6	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-7	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-8	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-9	Mitsubishi Electric	PKFY-P-NB-H-KMU-E_Wall_Mounted	5TH FLOOR	PKFY-P-NB-H-KMU-E_Wall_Mounted; PKFY-P08NBUMU-E	
IUS-10	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-11	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-12	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-13	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-14	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-15	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-16	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-17	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-18	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-19	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-20	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-21	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-22	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-23	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-24	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-25	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-26	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-27	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-28	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-29	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-30	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-31	Mitsubishi Electric	PMFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IUS-32	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-33	Mitsubishi Electric	PKFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 8000 Btu/h	
IUS-34	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-35	Mitsubishi Electric	PKFY-P08NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 8000 Btu/h	
IUS-36	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-37	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-38	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-39	Mitsubishi Electric	PMFY-P12NBUMU-E3	5TH FLOOR	Air Conditioner Mitsubishi Electric Ducted PEFY Series 12000 Btu/h	
IUS-40	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-41	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IUS-42	Mitsubishi Electric	PMFY-P12NBUMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	

LEVEL 5 VAV SCHEDULE						
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
RR 05A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	192 CFM
RR 05A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	193 CFM
T 05A	Price Industries	SPD/SPD AS/ASPD Series	Square Plaque Diffusers		8"ø	193 CFM
T 05A	Price Industries	SPD/SPD AS/ASPD Series	Square Plaque Diffusers		8"ø	192 CFM
VE5-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	510 CFM
VE5-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	335 CFM
VE5-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	400 CFM
VE5-05	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	640 CFM
VE5-06	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-4"ø	200 CFM
VSS-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	335 CFM
VSS-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	410 CFM
VSS-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-6"ø	320 CFM
VSS-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	440 CFM
VSS-05	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	365 CFM
VSS-05A	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM

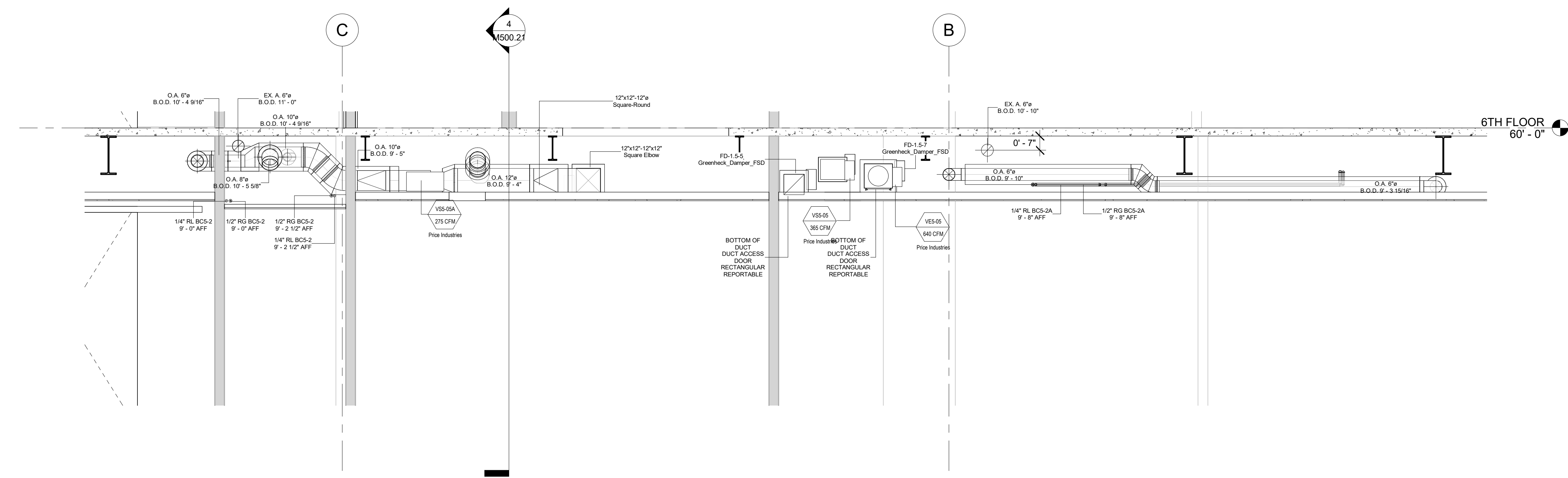
LEVEL 5 EXHAUST RGD SCHEDULE				
Mark	Actual Return Air Flow	Level	Description	
DD-E5	15 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-526	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-527	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-529	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-531	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-507	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-505	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-504	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille	
DD-503	30 CFM	5TH FLOOR	Price 6	



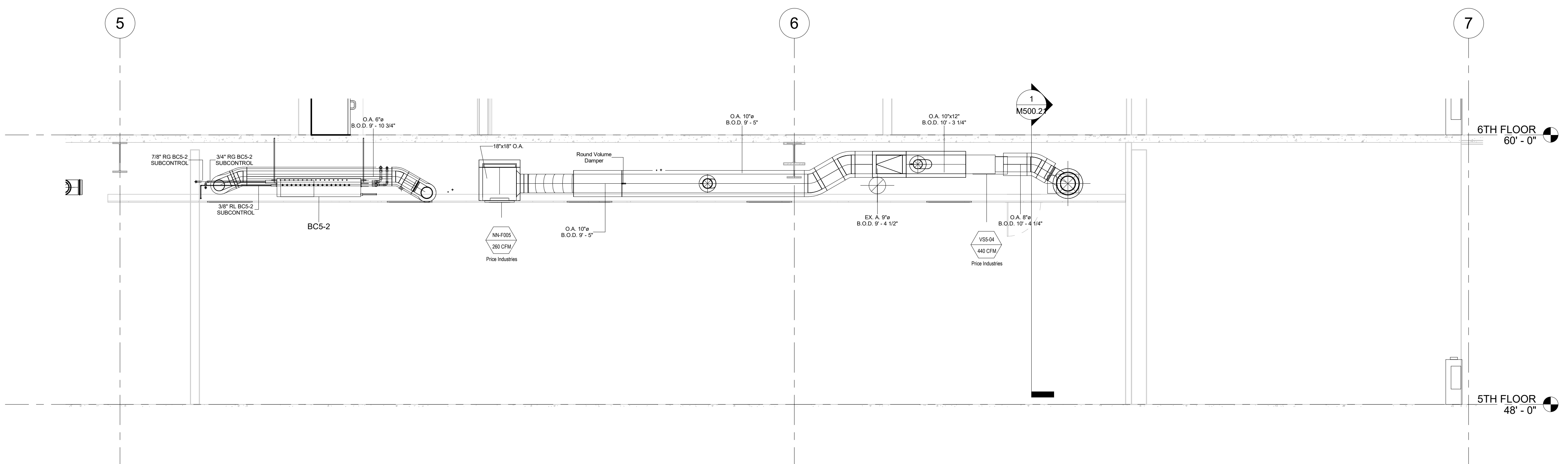
SECTION LEVEL 5 NORTH 1
 3/8" = 1'-0"



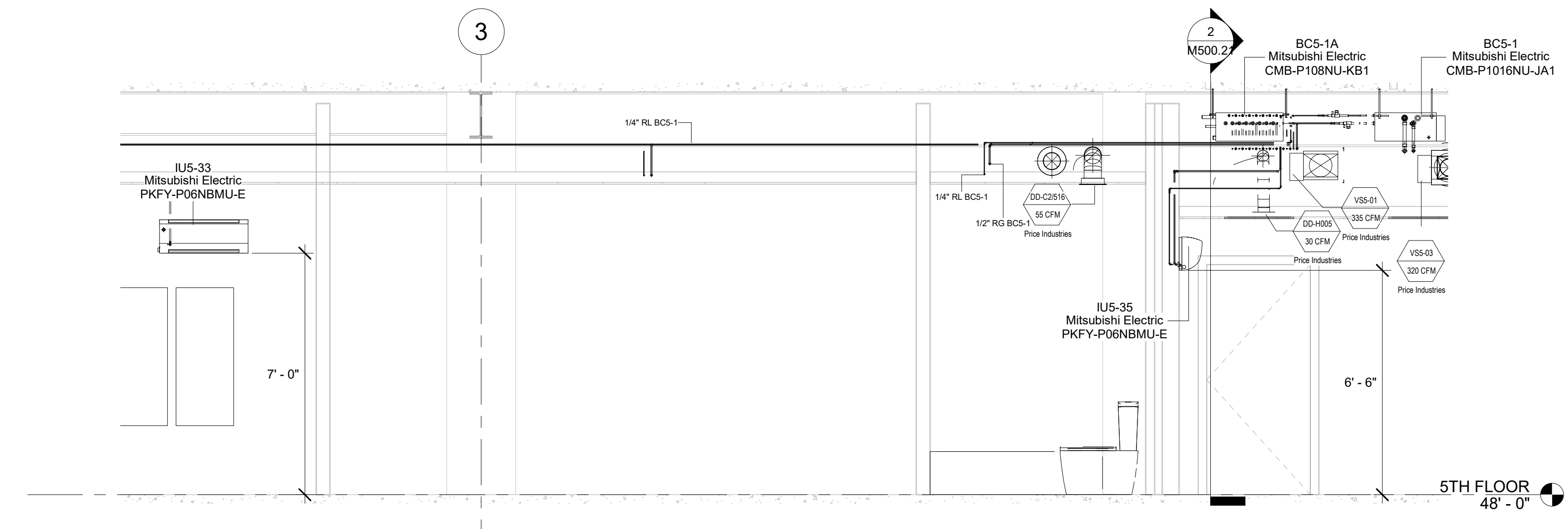
SECTION LEVEL 5 NORTH 2
 3/8" = 1'-0"



SECTION LEVEL 5 NORTH 3
 3/8" = 1'-0"



SECTION LEVEL 5 WEST 1
 3/8" = 1'-0"



M Section 46
 3/8" = 1'-0"

- NOTE:**
- 1) REFRIGERATION PIPING SIZES AND LENGTHS AS SHOWN IN THIS SHOP DRAWING AND OVP PIPING SCHEDULES CONFORM TO MITSUBISHI DESIGN CRITERIA FOR PROPER FUNCTIONALITY OF THE HWF SYSTEM.
 - 2) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X D.A. RADIUS, THEY ARE 1.0 X D.A. RADIUS BEND.
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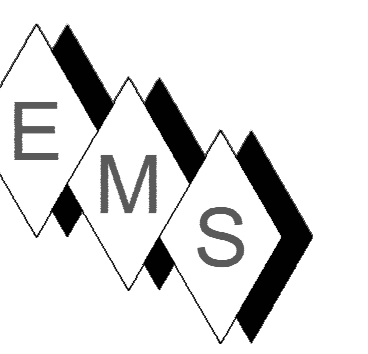
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

SECTION VIEWS

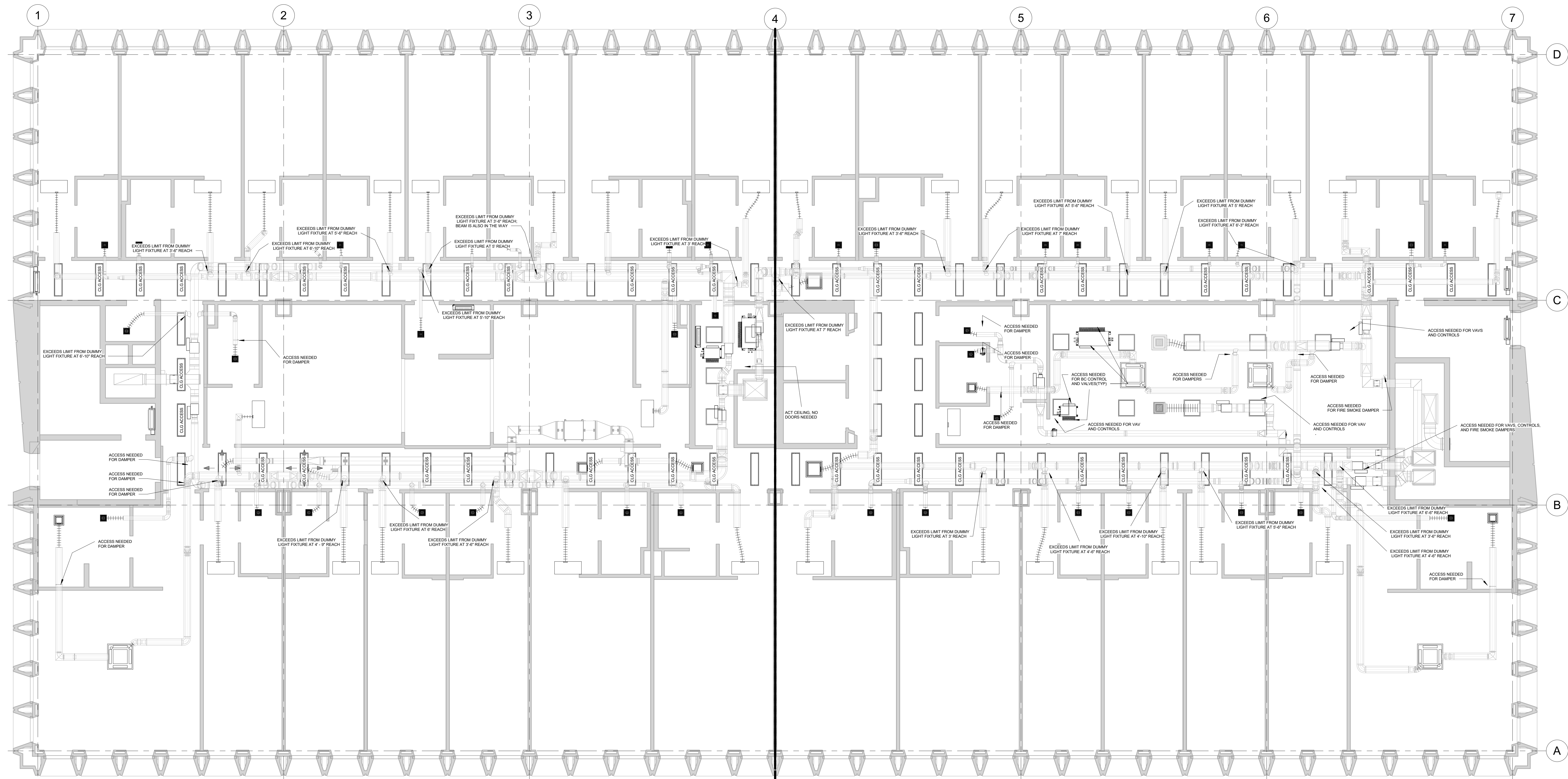
Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	SC

M500.21



NOTE:

1. SUBSEQUENT TO THIS COORDINATION DRAWING ISSUANCE, ARCHITECT / DEVELOPER HAS INDICATED THAT ALL HISTORICAL STYLE LIGHT FIXTURES ARE APPROVED FOR CEILING ACCESS. THIS IS TYPICAL ON ALL FLOORS. EMS HAS PROVEN THIS TO BE TRUE IN THE FIELD.



1 5TH FLOOR CEILING ACCESS
 3/16" = 1'-0"

No.	Description	Date
0	AS-BUILT	6/20/2022
1	ADDED ACCESS NOTE	10/28/2022

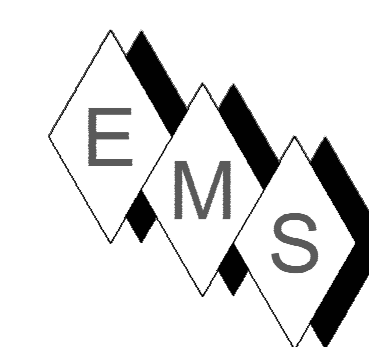
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

CEILING ACCESS POINTS

Project Number	5072
Date	12/15/20
Drawn By	SC
Checked By	SC

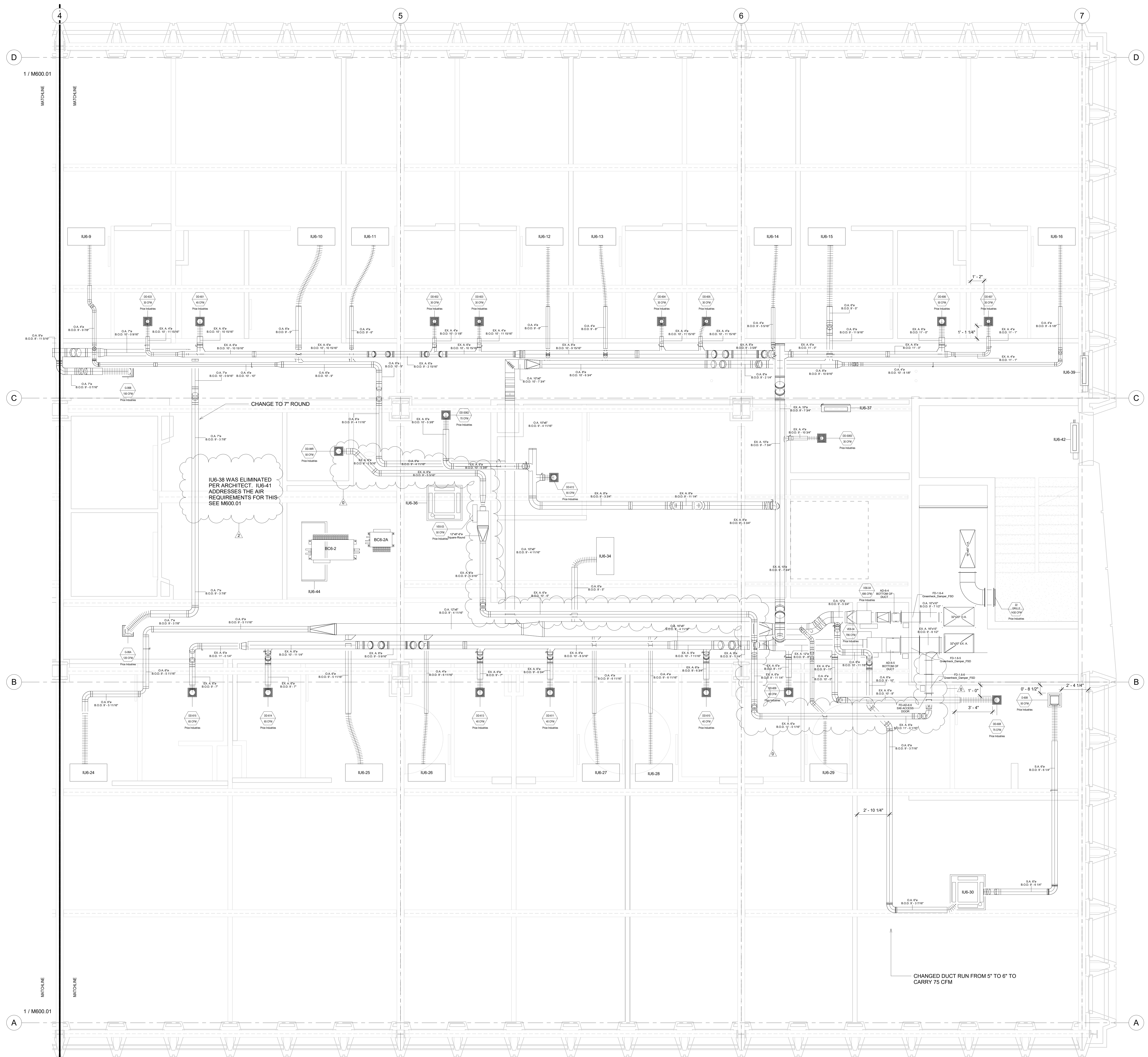
M500.30



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
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IU6-38 WAS ELIMINATED PER ARCHITECT. IU6-41 ADDRESSES THE AIR REQUIREMENTS FOR THIS SEE M600.01

CHANGED DUCT RUN FROM 5\"/>

No.	Description	Date
0	6\"/>	3/15/2021
1	AS-BUILT	6/20/2022
2	CLARIFICATION NOTE	10/28/2022

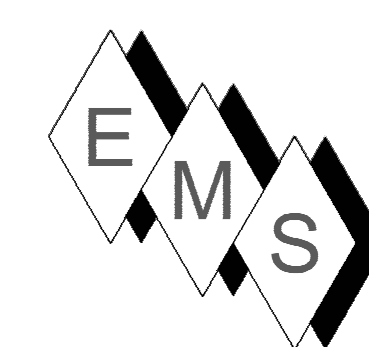
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SIXTH FLOOR NORTH HVAC PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By GM

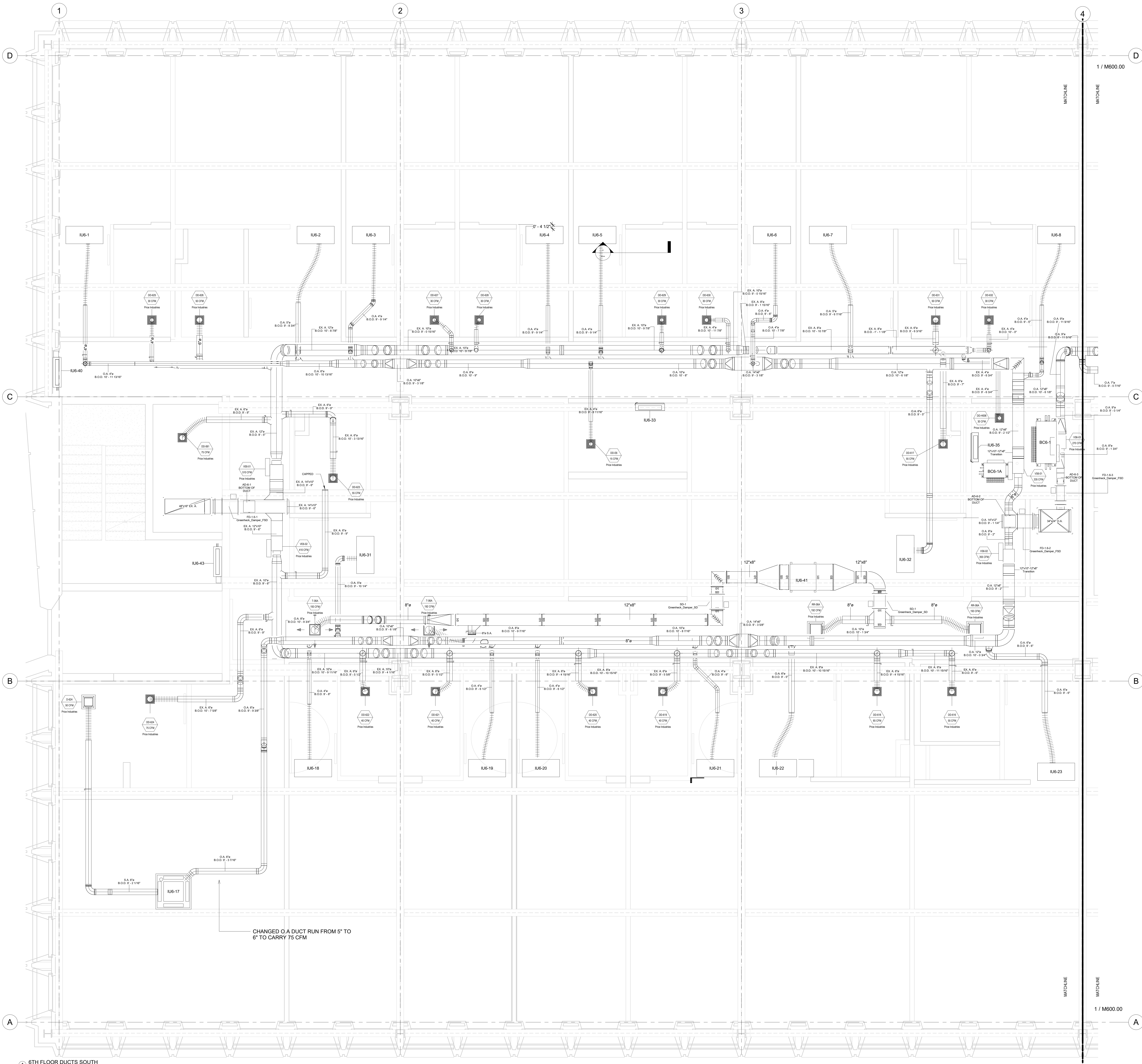
M600.00



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PLAN NORTH →

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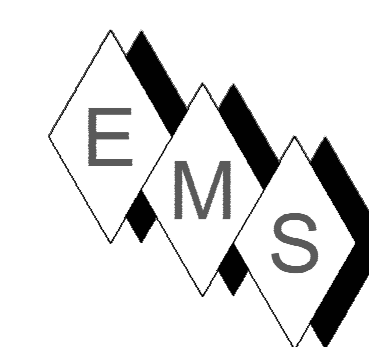
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

SIXTH FLOOR SOUTH HVAC PART PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

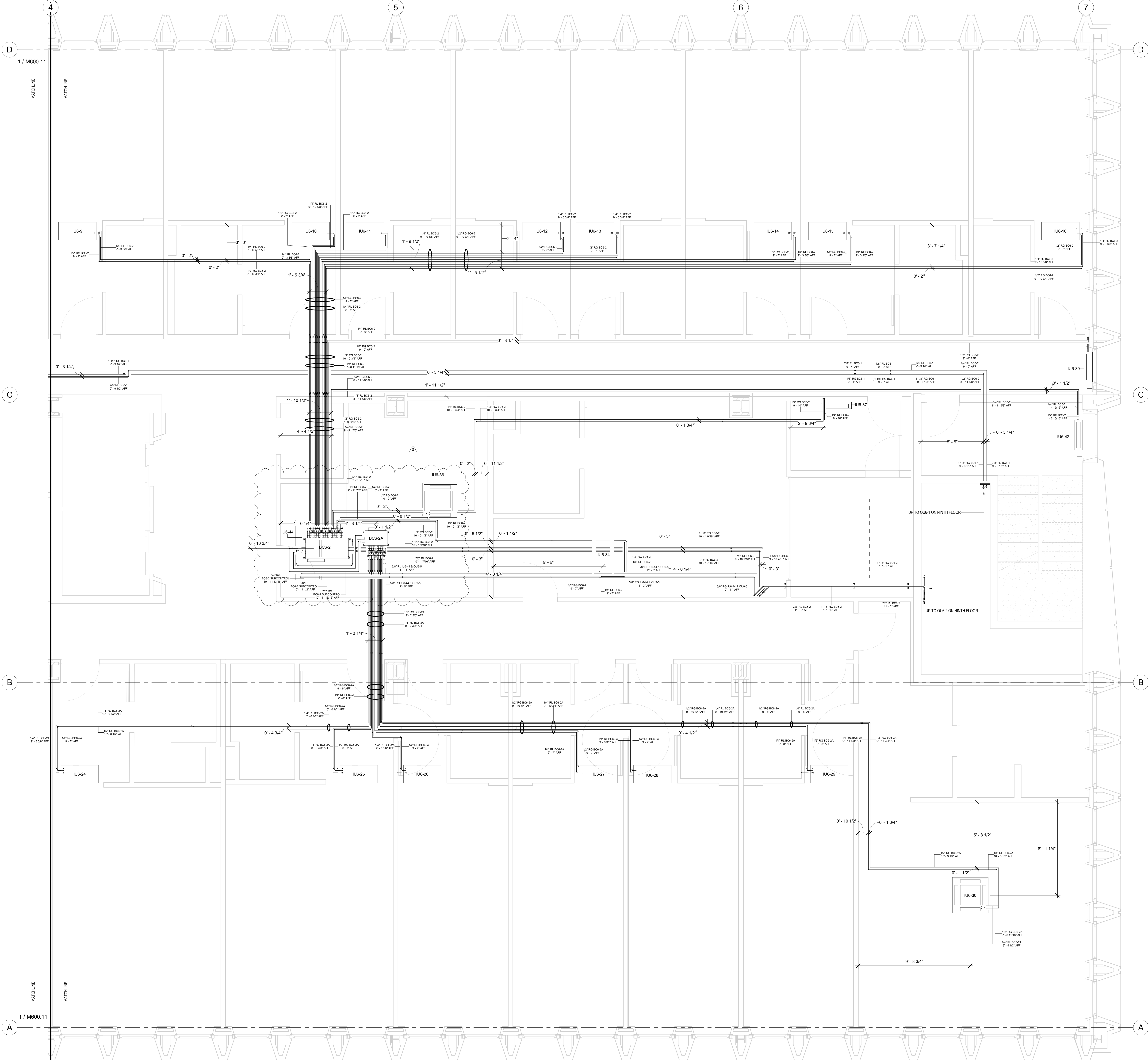
M600.01



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PLAN NORTH →

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No.	Description	Date
0	Change VRF Units Add IUB-44	3/8/2021
1	AS-BUILT	8/20/2022

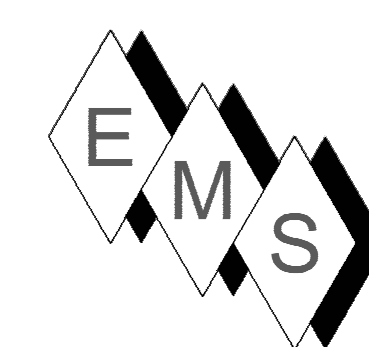
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SIXTH FLOOR NORTH REFRIG. PIPING PART. PLAN

Project Number: 5072
 Date: 12/15/20
 Drawn By: TH
 Checked By: SC

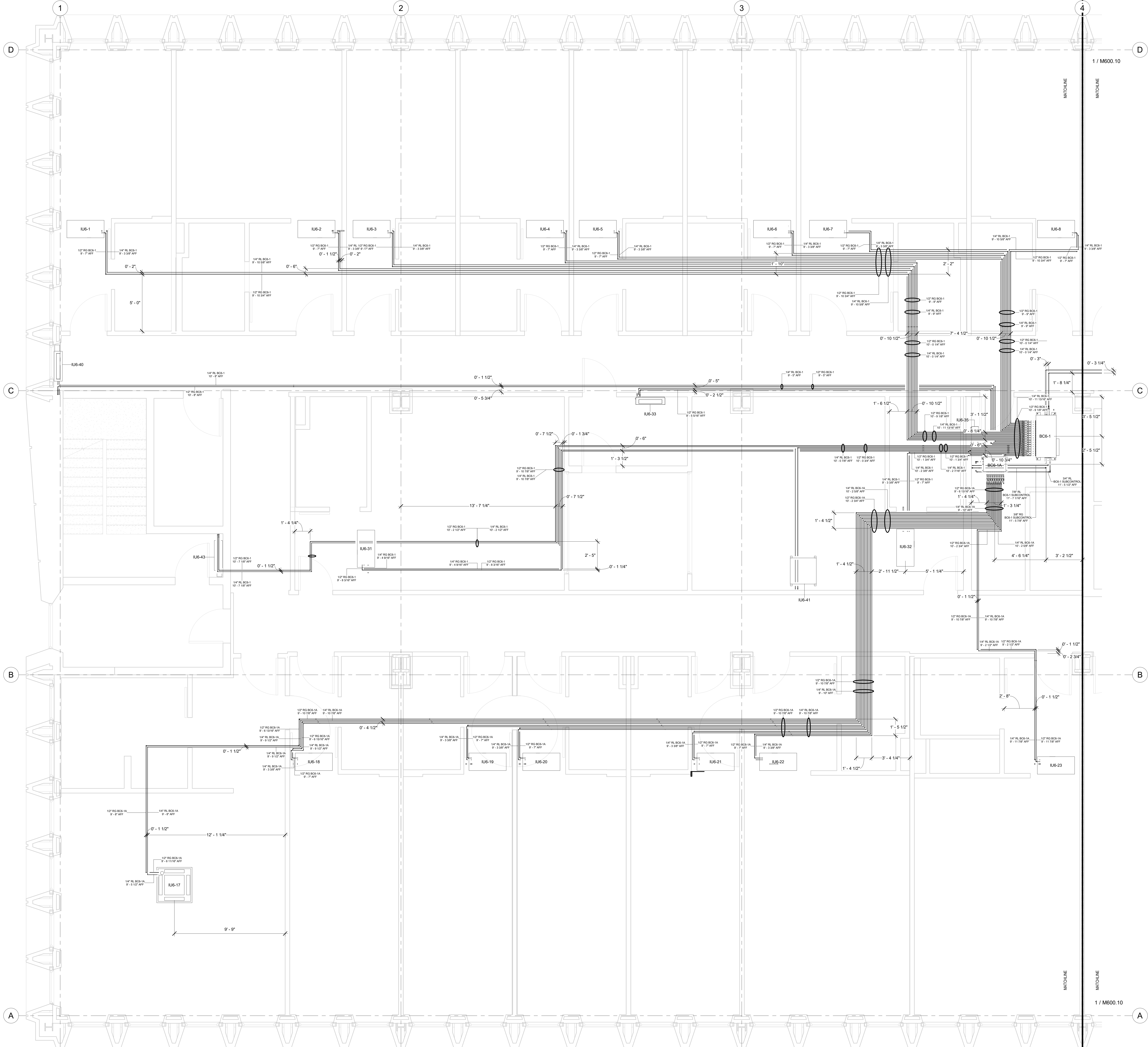
M600.10



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PLAN NORTH →

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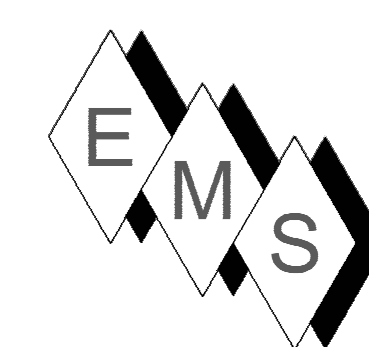
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

SIXTH FLOOR SOUTH REFRIG. PIPING PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

M600.11



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

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LEVEL 6 BC6-1 TO OU6-2 MAINS			
DESCRIPTION	DIAMETER	LENGTH	
OU6-1 GAS LINE	1 1/8"	172' - 9 1/16"	
OU6-1 LIQUID LINE	7/8"	173' - 8 3/4"	
Grand total:	32	346' - 5 13/16"	

LEVEL 6 BC6-2 TO OU6-2 MAINS			
DESCRIPTION	DIAMETER	LENGTH	
OU6-2 GAS LINE	1 1/8"	128' - 5 1/16"	
OU6-2 LIQUID LINE	7/8"	130' - 2 7/16"	
Grand total:	28	258' - 7 1/2"	

LEVEL 6 BC6-1 REFRIGERATION PIPING			
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
BC6-1	IU6-1 GAS LINE	1/2"	99' - 3 9/16"
BC6-1	IU6-1 LIQUID LINE	1/4"	100' - 5 1/4"
BC6-1	IU6-2 GAS LINE	1/2"	79' - 1 5/16"
BC6-1	IU6-2 LIQUID LINE	1/4"	79' - 11 11/16"
BC6-1	IU6-3 GAS LINE	1/2"	73' - 9 11/16"
BC6-1	IU6-3 LIQUID LINE	1/4"	74' - 11"
BC6-1	IU6-4 GAS LINE	1/2"	58' - 2 1/2"
BC6-1	IU6-4 LIQUID LINE	1/4"	59' - 5 1/2"
BC6-1	IU6-5 GAS LINE	1/2"	53' - 4 1/16"
BC6-1	IU6-5 LIQUID LINE	1/4"	54' - 7 3/16"
BC6-1	IU6-6 GAS LINE	1/2"	37' - 10 1/4"
BC6-1	IU6-6 LIQUID LINE	1/4"	38' - 8"
BC6-1	IU6-7 GAS LINE	1/2"	33' - 1 1/2"
BC6-1	IU6-7 LIQUID LINE	1/4"	33' - 11"
BC6-1	IU6-8 GAS LINE	1/2"	24' - 0 3/4"
BC6-1	IU6-8 LIQUID LINE	1/4"	25' - 6"
BC6-1	IU6-9 GAS LINE	1/2"	69' - 2 3/8"
BC6-1	IU6-9 LIQUID LINE	1/4"	68' - 11 1/8"
BC6-1	IU6-32 GAS LINE	1/2"	17' - 8 7/16"
BC6-1	IU6-32 LIQUID LINE	1/4"	18' - 0 3/8"
BC6-1	IU6-33 GAS LINE	1/2"	41' - 4 11/16"
BC6-1	IU6-33 LIQUID LINE	1/4"	41' - 4 9/16"
BC6-1	IU6-35 GAS LINE	1/2"	7' - 5 1/4"
BC6-1	IU6-35 LIQUID LINE	1/4"	7' - 5 5/8"
BC6-1	IU6-40 GAS LINE	1/2"	102' - 6 15/16"
BC6-1	IU6-40 LIQUID LINE	1/4"	103' - 0 7/8"
BC6-1	IU6-41 GAS LINE	1/2"	40' - 9 1/8"
BC6-1	IU6-41 LIQUID LINE	1/4"	41' - 4 3/4"
BC6-1	IU6-29 GAS LINE	1/2"	93' - 9 7/16"
BC6-1	IU6-43 LIQUID LINE	1/4"	94' - 2 15/16"
Grand total:	211		1673' - 8 3/8"

LEVEL 6 BC6-2A REFRIGERATION PIPING			
BC CONTROLLER	Piping Description	Diameter	Length
BC6-2A	IU6-24 GAS LINE	1/2"	47' - 10 7/16"
BC6-2A	IU6-24 LIQUID LINE	1/4"	49' - 2 3/16"
BC6-2A	IU6-25 GAS LINE	1/2"	24' - 3 3/8"
BC6-2A	IU6-25 LIQUID LINE	1/4"	25' - 6 9/16"
BC6-2A	IU6-26 GAS LINE	1/2"	22' - 10 1/8"
BC6-2A	IU6-26 LIQUID LINE	1/4"	23' - 6 3/4"
BC6-2A	IU6-27 GAS LINE	1/2"	37' - 8 1/8"
BC6-2A	IU6-27 LIQUID LINE	1/4"	39' - 1 3/16"
BC6-2A	IU6-28 GAS LINE	1/2"	42' - 5 1/2"
BC6-2A	IU6-28 LIQUID LINE	1/4"	43' - 7 3/4"
BC6-2A	IU6-29 GAS LINE	1/2"	57' - 8 1/4"
BC6-2A	IU6-29 LIQUID LINE	1/4"	59' - 5"
BC6-2A	IU6-30 GAS LINE	1/2"	87' - 4 13/16"
BC6-2A	IU6-30 LIQUID LINE	1/4"	88' - 0 1/8"
Grand total:	197		1430' - 3 5/8"

LEVEL 6 BC6-1A REFRIGERATION PIPING			
BC CONTROLLER	Description	Diameter	Length
BC6-1A	IU6-17 GAS LINE	1/2"	110' - 6 5/8"
BC6-1A	IU6-17 LIQUID LINE	1/4"	110' - 1 1/4"
BC6-1A	IU6-18 GAS LINE	1/2"	87' - 0 7/8"
BC6-1A	IU6-18 LIQUID LINE	1/4"	87' - 5 5/8"
BC6-1A	IU6-19 GAS LINE	1/2"	71' - 8 1/8"
BC6-1A	IU6-19 LIQUID LINE	1/4"	72' - 0 1/2"
BC6-1A	IU6-20 GAS LINE	1/2"	67' - 8 5/8"
BC6-1A	IU6-20 LIQUID LINE	1/4"	68' - 1 3/4"
BC6-1A	IU6-21 GAS LINE	1/2"	52' - 7 9/16"
BC6-1A	IU6-21 LIQUID LINE	1/4"	52' - 11 15/16"
BC6-1A	IU6-22 GAS LINE	1/2"	47' - 8 11/16"
BC6-1A	IU6-22 LIQUID LINE	1/4"	47' - 9 5/16"
BC6-1A	IU6-23 GAS LINE	1/2"	34' - 5 3/4"
BC6-1A	IU6-23 LIQUID LINE	1/4"	34' - 6 5/8"
Grand total:	155		944' - 11 3/16"

LEVEL 6 OU9-5 REFRIGERATION PIPING			
IU & OU Tags	Piping Description	Diameter	Length
IU6-44 & OU9-5	IU6-44 GAS LINE	5/8"	114' - 5 15/16"
IU6-44 & OU9-5	IU6-44 LIQUID LINE	3/8"	115' - 8 7/8"
Grand total:	40		230' - 2 7/8"

LEVEL 6 BC61 SUBCONTROLLER LINES			
Description	Diameter	Length	
BC6-1 SUBCONTROL LIQUID LINE	3/8"	8' - 10 1/2"	
BC6-1 SUBCONTROL GAS LINE	3/4"	9' - 0 1/2"	
BC6-1 SUBCONTROL GAS LINE	7/8"	8' - 5 15/16"	
Grand total:	16	26' - 5"	

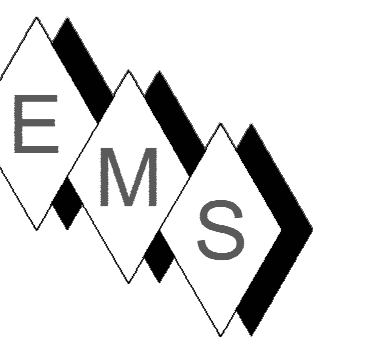
LEVEL 6 BC62 SUBCONTROLLER LINES			
Description	Diameter	Length	
BC6-2 SUBCONTROL LIQUID LINE	3/8"	11' - 11 3/16"	
BC6-2 SUBCONTROL GAS LINE	3/4"	10' - 2 1/16"	
BC6-2 SUBCONTROL GAS LINE	7/8"	12' - 4 7/8"	
Grand total:	21	34' - 6 1/8"	

LEVEL 6 BC6-2 REFRIGERATION PIPING				
BC Controller	Piping Description	Diameter	Length	
BC6-2	IU6-9 GAS LINE	1/2"	44' - 2 7/8"	
BC6-2	IU6-9 LIQUID LINE	1/4"	45' - 1 3/8"	
BC6-2	IU6-10 GAS LINE	1/2"	27' - 1 11 3/4"	
BC6-2	IU6-10 LIQUID LINE	1/4"	28' - 1 11 1/16"	
BC6-2	IU6-11 GAS LINE	1/2"	31' - 6 3/4"	
BC6-2	IU6-11 LIQUID LINE	1/4"	33' - 7 3/8"	
BC6-2	IU6-12 GAS LINE	1/2"	46' - 4 1/4"	
BC6-2	IU6-12 LIQUID LINE	1/4"	48' - 2 9/16"	
BC6-2	IU6-13 GAS LINE	1/2"	51' - 7 3/8"	
BC6-2	IU6-13 LIQUID LINE	1/4"	52' - 11 1/4"	
BC6-2	IU6-14 GAS LINE	1/2"	66' - 9 11/16"	
BC6-2	IU6-14 LIQUID LINE	1/4"	68' - 1 9/16"	
BC6-2	IU6-15 GAS LINE	1/2"	71' - 7 5/8"	
BC6-2	IU6-15 LIQUID LINE	1/4"	72' - 11 15/16"	
BC6-2	IU6-16 GAS LINE	1/2"	91' - 0 7/16"	
BC6-2	IU6-16 LIQUID LINE	1/4"	93' - 0 7/16"	
BC6-2	IU6-34 GAS LINE	1/2"	32' - 9 5/8"	
BC6-2	IU6-34 LIQUID LINE	1/4"	33' - 5 5/8"	
BC6-2	IU6-36 GAS LINE	5/8"	8' - 5 1/2"	
BC6-2	IU6-36 LIQUID LINE	3/8"	9' - 2 1/4"	
BC6-2	IU6-37 GAS LINE	1/2"	57' - 3"	
BC6-2	IU6-37 LIQUID LINE	1/4"	57' - 3 1/16"	
BC6-2	IU6-39 GAS LINE	1/2"	91' - 11 11/16"	
BC6-2	IU6-39 LIQUID LINE	1/4"	91' - 10 3/4"	
BC6-2	IU6-42 GAS LINE	1/2"	87' - 3 3/4"	
BC6-2	IU6-42 LIQUID LINE	1/4"	87' - 7 7/16"	
Grand total:	197		1430' - 3 5/8"	

LEVEL 6 BC6-2A REFRIGERATION PIPING				
BC Controller	Piping Description	Diameter	Length	
BC6-2A	IU6-24 GAS LINE	1/2"	47' - 10 7/16"	
BC6-2A	IU6-24 LIQUID LINE	1/4"	49' - 2 3/16"	
BC6-2A	IU6-25 GAS LINE	1/2"	24' - 3 3/8"	
BC6-2A	IU6-25 LIQUID LINE	1/4"	25' - 6 9/16"	
BC6-2A	IU6-26 GAS LINE	1/2"	22' - 10 1/8"	
BC6-2A	IU6-26 LIQUID LINE	1/4"	23' - 6 3/4"	
BC6-2A	IU6-27 GAS LINE	1/2"	37' - 8 1/8"	
BC6-2A	IU6-27 LIQUID LINE	1/4"	39' - 1 3/16"	
BC6-2A	IU6-28 GAS LINE	1/2"	42' - 5 1/2"	
BC6-2A	IU6-28 LIQUID LINE	1/4"	43' - 7 3/4"	
BC6-2A	IU6-29 GAS LINE	1/2"	57' - 8 1/4"	
BC6-2A	IU6-29 LIQUID LINE	1/4"	59' - 5"	
BC6-2A	IU6-30 GAS LINE	1/2"	87' - 4 13/16"	
BC6-2A	IU6-30 LIQUID LINE	1/4"	88' - 0 1/8"	
Grand total:	173		1430' - 8 1/8"	

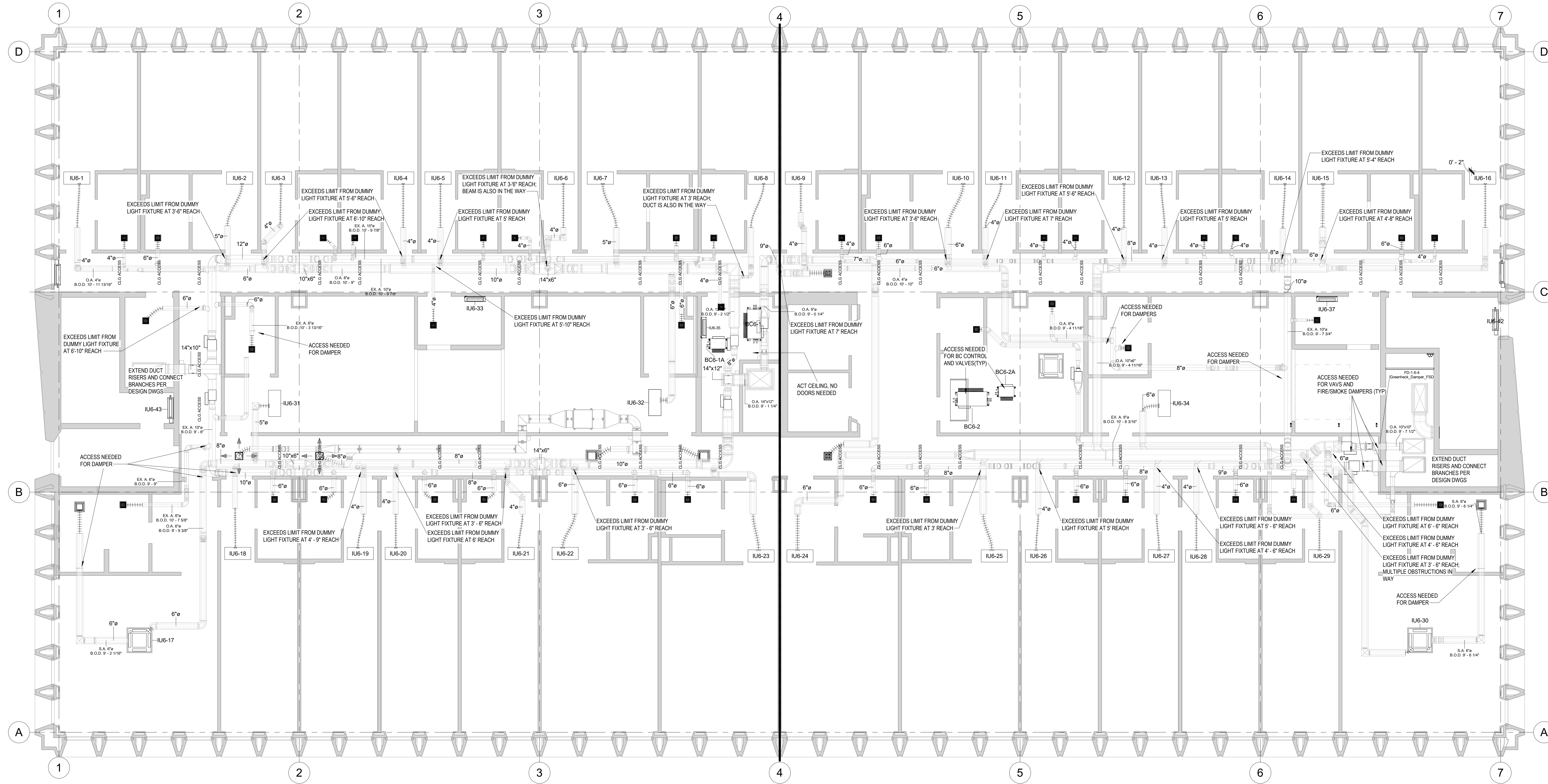
LEVEL 6 MITSUBISHI EQUIPMENT SCHEDULE				
Mark	Manufacturer	Model	Comments	
BC6-1	Mitsubishi Electric	CMB-P1016NU-JA1	Mitsubishi BC Controller	
BC6-1A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Sub-BC Controller	
BC6-2	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi Sub-BC Controller	
BC6-2A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Sub-BC Controller	
IU6-1	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU6-2	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU6-3	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-4	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-5	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-6	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-7	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-8	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-9	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-10	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-11	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-12	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-13	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-14	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-15	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-16	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-17	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU6-18	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-19	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-20	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-21	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-22	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU6-23	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-24	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-25	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-26	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-27	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-28	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-29	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-30	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU6-31	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-32	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU6-33	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU6-34	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU6-35	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU6-36	Mitsubishi Electric	PLFY-EP36NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 36000 Btu/h	
IU6-37	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU6-39	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU6-40	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU6-41	Mitsubishi Electric	PEFY-P12NMAU-E3	Air Conditioner Mitsubishi Electric Ducted PEFY Series 12000 Btu/h	
IU6-42	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU6-43	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU6-44	Mitsubishi Electric	PCA-A36KA7	Heat Pump Mitsubishi Electric Ceiling Suspended PCA -KA7 Series 36000 Btu/h	

BC6-1 CONNECTED UNITS		
INDOOR UNIT	BC CONTROLLER	DESCRIPTION
IU6-1	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU6-2	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU6-3	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-4	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-5	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-6	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-7	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-8	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-9	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-10	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-11	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-12	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-13	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-14	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-15	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-16	BC6-1	PKFY-P-NB-H-KMU-E_Wall Mounted: PKFY-P06NBMU-E
IU6-17	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PLFY_EP_Series: 18000 Btu/h
IU6-18	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-19	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-20	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-21	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-22	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU6-23	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-24	BC6-1A	Air Condition



NOTE:

1. SUBSEQUENT TO THIS COORDINATION DRAWING ISSUANCE, ARCHITECT / DEVELOPER HAS INDICATED THAT ALL HISTORICAL STYLE LIGHT FIXTURES ARE APPROVED FOR CEILING ACCESS. THIS IS TYPICAL ON ALL FLOORS. EMS HAS PROVEN THIS TO BE TRUE IN THE FIELD.



1 6TH FLOOR CEILING ACCESS
 3/16" = 1'-0"

No.	Description	Date
0	AS-BUILT	6/20/2022
1	ADDED ACCESS NOTE	10/28/2022

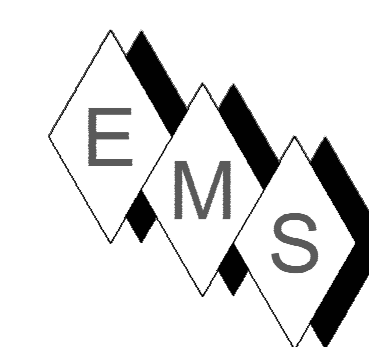
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

CEILING ACCESS POINTS

Project Number	5072
Date	12/15/20
Drawn By	T.H.
Checked By	S.C.

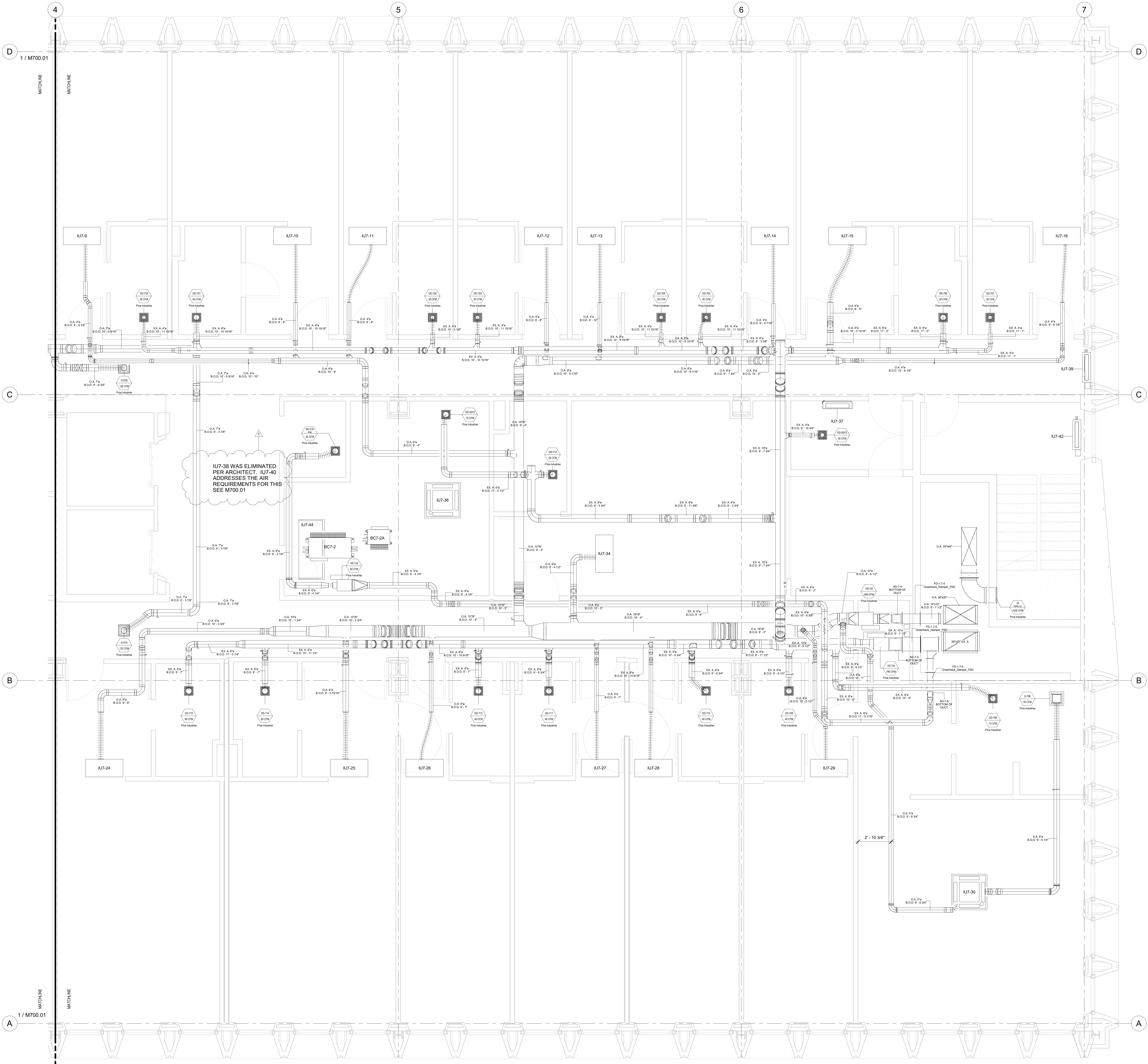
M600.30



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL SCOURERENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT LINES FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS S2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.



No.	Description	Date
0	AS-BUILT	6/20/2022
1	CLARIFICATION NOTE	10/28/2022

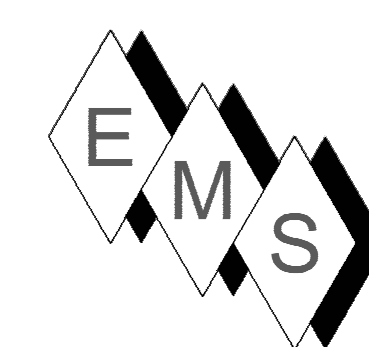
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SEVENTH FLOOR NORTH HVAC PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

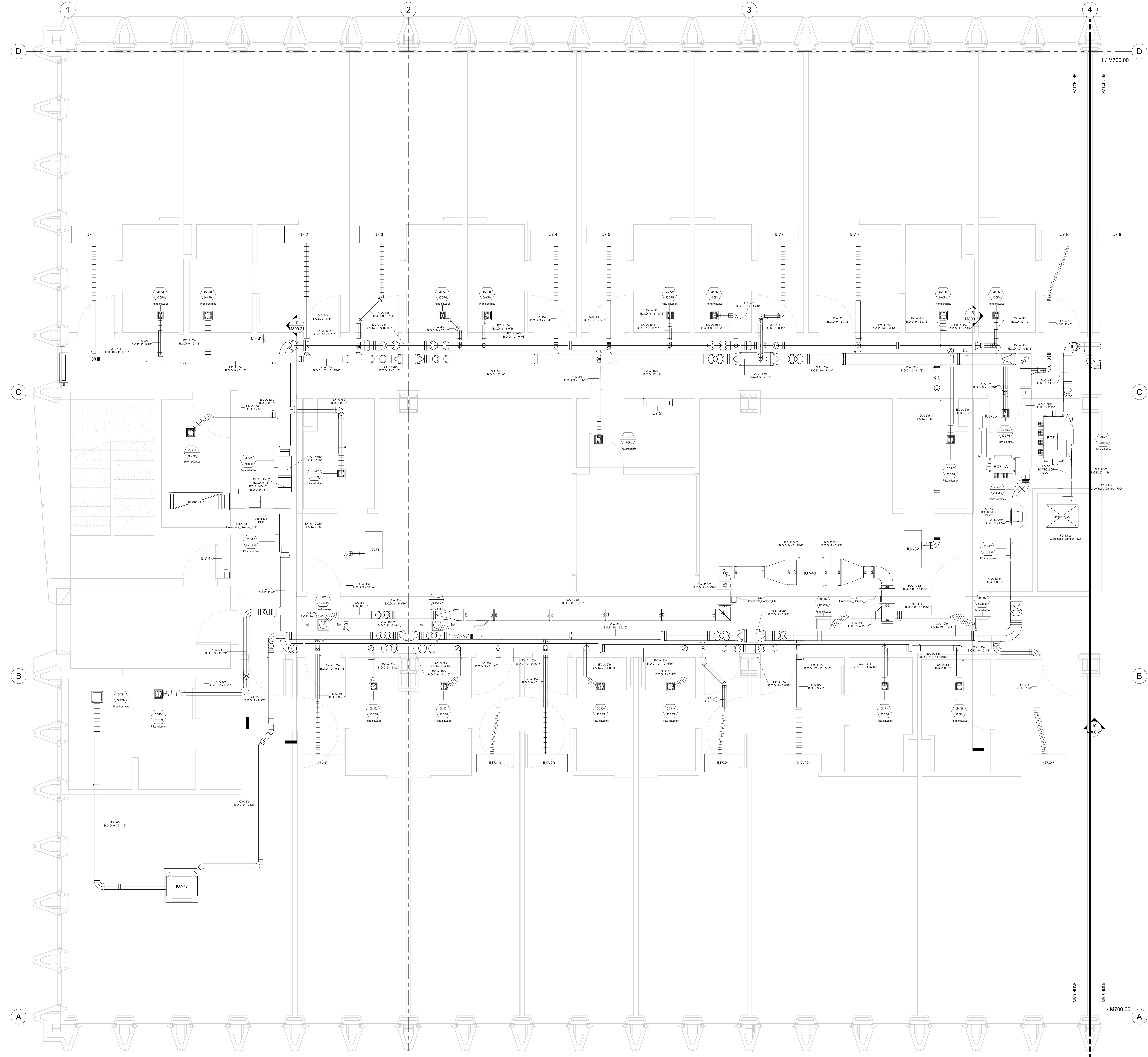
M700.00



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALWAYS TO OVAL SQUARES IF NOT PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINTING METHOD IS RZ PURGE AND BRAZED JOINTS. ALL MANS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.



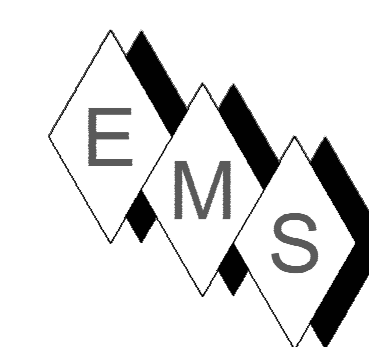
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

**SEVENTH FLOOR SOUTH
 HVAC PART. PLAN**

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By SC

M700.01



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

LEVEL 7 BC7-1 TO OU7-1 MAINS		
DESCRIPTION	DIAMETER	LENGTH
OU7-1 GAS LINE	1 1/8"	164' - 1 3/4"
OU7-1 GAS LINE	1 3/8"	3' - 4 7/8"
OU7-1 LIQUID LINE	7/8"	165' - 1 7/8"
OU7-1 LIQUID LINE	1 3/8"	3' - 4 7/8"
Grand total:	35	336' - 1 3/8"

LEVEL 7 BC7-2 TO OU7-2 MAINS		
DESCRIPTION	DIAMETER	LENGTH
OU7-2 GAS LINE	1 1/8"	122' - 1 1/2"
OU7-2 GAS LINE	1 3/8"	0' - 11 3/8"
OU7-2 LIQUID LINE	7/8"	124' - 2 1/8"
OU7-2 LIQUID LINE	1 1/8"	0' - 11 7/16"
Grand total:	32	248' - 2 7/16"

LEVEL 7 BC7-1 REFRIGERATION PIPING			
BC Controller	DESCRIPTION	DIAMETER	LENGTH
BC7-1	IU7-1 GAS LINE	1/2"	99' - 2 7/8"
BC7-1	IU7-1 LIQUID LINE	1/4"	100' - 4 7/8"
BC7-1	IU7-2 GAS LINE	1/2"	80' - 8 3/16"
BC7-1	IU7-2 LIQUID LINE	1/4"	81' - 6 1/4"
BC7-1	IU7-3 GAS LINE	1/2"	73' - 6 9/16"
BC7-1	IU7-3 LIQUID LINE	1/4"	74' - 8 5/8"
BC7-1	IU7-4 GAS LINE	1/2"	57' - 10 3/8"
BC7-1	IU7-4 LIQUID LINE	1/4"	59' - 2 1/16"
BC7-1	IU7-5 GAS LINE	1/2"	53' - 0 9/16"
BC7-1	IU7-5 LIQUID LINE	1/4"	54' - 3 13/16"
BC7-1	IU7-6 GAS LINE	1/2"	37' - 6 1/8"
BC7-1	IU7-6 LIQUID LINE	1/4"	38' - 9 3/8"
BC7-1	IU7-7 GAS LINE	1/2"	31' - 1 3/16"
BC7-1	IU7-7 LIQUID LINE	1/4"	31' - 11 5/8"
BC7-1	IU7-8 GAS LINE	1/2"	23' - 8 5/8"
BC7-1	IU7-8 LIQUID LINE	1/4"	25' - 6 11/16"
BC7-1	IU7-31 GAS LINE	1/2"	68' - 8 5/8"
BC7-1	IU7-31 LIQUID LINE	1/4"	69' - 0 5/16"
BC7-1	IU7-32 GAS LINE	1/2"	17' - 8 7/16"
BC7-1	IU7-32 LIQUID LINE	1/4"	18' - 0 3/8"
BC7-1	IU7-33 GAS LINE	1/2"	41' - 0 3/4"
BC7-1	IU7-33 LIQUID LINE	1/4"	41' - 5 5/16"
BC7-1	IU7-35 GAS LINE	1/2"	7' - 5 1/4"
BC7-1	IU7-35 LIQUID LINE	1/4"	7' - 5 5/8"
BC7-1	IU7-40 GAS LINE	1/2"	32' - 3 5/16"
BC7-1	IU7-40 LIQUID LINE	1/4"	32' - 4 3/4"
BC7-1	IU7-41 GAS LINE	1/2"	101' - 2 1/4"
BC7-1	IU7-41 LIQUID LINE	1/4"	101' - 6 5/8"
BC7-1	IU7-43 GAS LINE	1/2"	93' - 9 7/16"
BC7-1	IU7-43 LIQUID LINE	1/4"	94' - 2 15/16"
Grand total:	205	1649' - 5 13/16"	

LEVEL 7 BC7-1A REFRIGERATION PIPING			
BC Controller	DESCRIPTION	DIAMETER	LENGTH
BC7-1A	IU7-17 GAS LINE	1/2"	110' - 6 5/8"
BC7-1A	IU7-17 LIQUID LINE	1/4"	110' - 0 3/4"
BC7-1A	IU7-18 GAS LINE	1/2"	87' - 0 7/8"
BC7-1A	IU7-18 LIQUID LINE	1/4"	87' - 5 5/8"
BC7-1A	IU7-19 GAS LINE	1/2"	71' - 8 3/16"
BC7-1A	IU7-19 LIQUID LINE	1/4"	72' - 0 1/2"
BC7-1A	IU7-20 GAS LINE	1/2"	67' - 9 9/16"
BC7-1A	IU7-20 LIQUID LINE	1/4"	68' - 1 3/4"
BC7-1A	IU7-21 GAS LINE	1/2"	52' - 7 9/16"
BC7-1A	IU7-21 LIQUID LINE	1/4"	52' - 11 15/16"
BC7-1A	IU7-22 GAS LINE	1/2"	46' - 2 3/16"
BC7-1A	IU7-22 LIQUID LINE	1/4"	46' - 2 13/16"
BC7-1A	IU7-23 GAS LINE	1/2"	31' - 0 11/16"
BC7-1A	IU7-23 LIQUID LINE	1/4"	31' - 6 11/16"
Grand total:	157	935' - 5 1/16"	

LEVEL 7 OU9-6 REFRIGERATION PIPING			
IU & OU Tags	Piping Description	Diameter	Length
IU7-44 & OU9-6	IU7-44 GAS LINE	5/8"	109' - 8 5/16"
IU7-44 & OU9-6	IU7-44 LIQUID LINE	3/8"	110' - 4 7/8"
Grand total:	25	220' - 1 3/16"	

LEVEL 7 BC7-2 REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC7-2	IU7-9 GAS LINE	1/2"	43' - 1 3/8"
BC7-2	IU7-9 LIQUID LINE	1/4"	45' - 2 1/16"
BC7-2	IU7-10 GAS LINE	1/2"	25' - 5"
BC7-2	IU7-10 LIQUID LINE	1/4"	25' - 11 13/16"
BC7-2	IU7-11 GAS LINE	1/2"	30' - 10 1/16"
BC7-2	IU7-11 LIQUID LINE	1/4"	33' - 3 1/4"
BC7-2	IU7-12 GAS LINE	1/2"	45' - 11 11/16"
BC7-2	IU7-12 LIQUID LINE	1/4"	48' - 2 9/16"
BC7-2	IU7-13 GAS LINE	1/2"	50' - 6 1/8"
BC7-2	IU7-13 LIQUID LINE	1/4"	53' - 0"
BC7-2	IU7-14 GAS LINE	1/2"	65' - 5 1/2"
BC7-2	IU7-14 LIQUID LINE	1/4"	67' - 11 1/16"
BC7-2	IU7-15 GAS LINE	1/2"	73' - 2 7/16"
BC7-2	IU7-15 LIQUID LINE	1/4"	75' - 3 11/16"
BC7-2	IU7-16 GAS LINE	1/2"	90' - 6 3/4"
BC7-2	IU7-16 LIQUID LINE	1/4"	93' - 0"
BC7-2	IU7-34 GAS LINE	1/2"	27' - 6 1/2"
BC7-2	IU7-34 LIQUID LINE	1/4"	28' - 9 15/16"
BC7-2	IU7-36 GAS LINE	5/8"	8' - 10 11/16"
BC7-2	IU7-36 LIQUID LINE	3/8"	9' - 8 15/16"
BC7-2	IU7-37 GAS LINE	1/2"	57' - 3"
BC7-2	IU7-37 LIQUID LINE	1/4"	57' - 3 1/16"
BC7-2	IU7-39 GAS LINE	1/2"	92' - 1 11/16"
BC7-2	IU7-39 LIQUID LINE	1/4"	91' - 8 3/4"
BC7-2	IU7-42 GAS LINE	1/2"	87' - 3 3/4"
BC7-2	IU7-42 LIQUID LINE	1/4"	87' - 7 7/16"
Grand total:	176	1415' - 0 9/16"	

LEVEL 7 BC7-2A REFRIGERATION PIPING			
BC Controller	Piping Description	Diameter	Length
BC7-2A	IU7-24 GAS LINE	1/2"	45' - 4 5/8"
BC7-2A	IU7-24 LIQUID LINE	1/4"	47' - 3 13/16"
BC7-2A	IU7-25 GAS LINE	1/2"	25' - 0 1/2"
BC7-2A	IU7-25 LIQUID LINE	1/4"	26' - 6 1/4"
BC7-2A	IU7-26 GAS LINE	1/2"	21' - 1 5/8"
BC7-2A	IU7-26 LIQUID LINE	1/4"	22' - 7 1/16"
BC7-2A	IU7-27 GAS LINE	1/2"	38' - 7 11/16"
BC7-2A	IU7-27 LIQUID LINE	1/4"	37' - 8 1/4"
BC7-2A	IU7-28 GAS LINE	1/2"	41' - 1 1/2"
BC7-2A	IU7-28 LIQUID LINE	1/4"	42' - 8 3/16"
BC7-2A	IU7-29 GAS LINE	1/2"	52' - 3 3/8"
BC7-2A	IU7-29 LIQUID LINE	1/4"	57' - 3 1/2"
BC7-2A	IU7-30 GAS LINE	1/2"	86' - 3 9/16"
BC7-2A	IU7-30 LIQUID LINE	1/4"	86' - 8 11/16"
Grand total:	126	629' - 0 11/16"	

LEVEL 7 BC71 SUBCONTROLLER LINES			
Description	Diameter	Length	
BC7-1 SUBCONTROL LIQUID LINE	3/8"	8' - 10 1/2"	
BC7-1 SUBCONTROL GAS LINE	3/4"	9' - 0 1/2"	
BC7-1 SUBCONTROL GAS LINE	7/8"	8' - 5 15/16"	
Grand total:	16	26' - 5"	

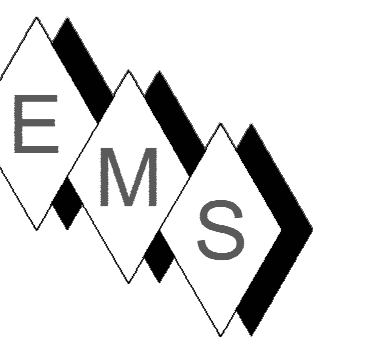
LEVEL 7 BC72 SUBCONTROLLER LINES			
Description	Diameter	Length	
BC7-2 SUBCONTROL LIQUID LINE	3/8"	11' - 10 11/16"	
BC7-2 SUBCONTROL GAS LINE	3/4"	10' - 1 9/16"	
BC7-2 SUBCONTROL GAS LINE	7/8"	12' - 4 11/16"	
Grand total:	21	34' - 5"	

LEVEL 7 MITSUBISHI EQUIPMENT SCHEDULE				
Mark	Manufacturer	Model	Comments	
BC7-1	Mitsubishi Electric	CMB-P1016NU-JA1	Mitsubishi BC Controller	
BC7-1A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Sub-BC Controller	
BC7-2	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi BC Controller	
BC7-2A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Sub-BC Controller	
IU7-1	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU7-2	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-3	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-4	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-5	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-6	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-7	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-8	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-9	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-10	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-11	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-12	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-13	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-14	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-15	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-16	Mitsubishi Electric	PMFY-P15NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 15000 Btu/h	
IU7-17	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU7-18	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-19	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-20	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-21	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-22	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-23	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-24	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-25	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-26	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-27	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-28	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-29	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-30	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU7-31	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-32	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU7-34	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU7-35	Mitsubishi Electric	PKFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU7-36	Mitsubishi Electric	PLFY-EP38NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 38000 Btu/h	
IU7-37	Mitsubishi Electric	PKFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU7-39	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU7-40	Mitsubishi Electric	PFY-P12NRMU-E3	Air Conditioner Mitsubishi Electric Ducted PFY Series 12000 Btu/h	
IU7-41	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU7-42	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU7-43	Mitsubishi Electric	PFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFY Series 12000 Btu/h	
IU7-44	Mitsubishi Electric	PCA-A36KA7	Heat Pump Mitsubishi Electric Ceiling Suspended PCA -KA7 Series 36000 Btu/h	

LEVEL 7 EXHAUST RGD SCHEDULE			
Mark	Actual Return Air Flow	Level	Manufacturer
DD-E7	15 CFM	7TH FLOOR	Price Industries
DD-727	30 CFM	7TH FLOOR	Price Industries
DD-728	30 CFM	7TH FLOOR	Price Industries
DD-730	30 CFM	7TH FLOOR	Price Industries
DD-732	30 CFM	7TH FLOOR	Price Industries
DD-707	30 CFM	7TH FLOOR	Price Industries
DD-705	30 CFM	7TH FLOOR	Price Industries
DD-704	30 CFM	7TH FLOOR	Price Industries
DD-703	30 CFM	7TH FLOOR	Price Industries
DD-702	30 CFM	7TH FLOOR	Price Industries
DD-733	30 CFM	7TH FLOOR	Price Industries
DD-729	30 CFM	7TH FLOOR	Price Industries
DD-725	30 CFM	7TH FLOOR	Price Industries
DD-H007	30 CFM	7TH FLOOR	Price Industries
DD-S073	30 CFM	7TH FLOOR	Price Industries
DD-719	40 CFM	7TH FLOOR	Price Industries
DD-720	40 CFM	7TH FLOOR	Price Industries
DD-721	40 CFM	7TH FLOOR	Price Industries
DD-722	40 CFM	7TH FLOOR	Price Industries
DD-713	40 CFM	7TH FLOOR	Price Industries

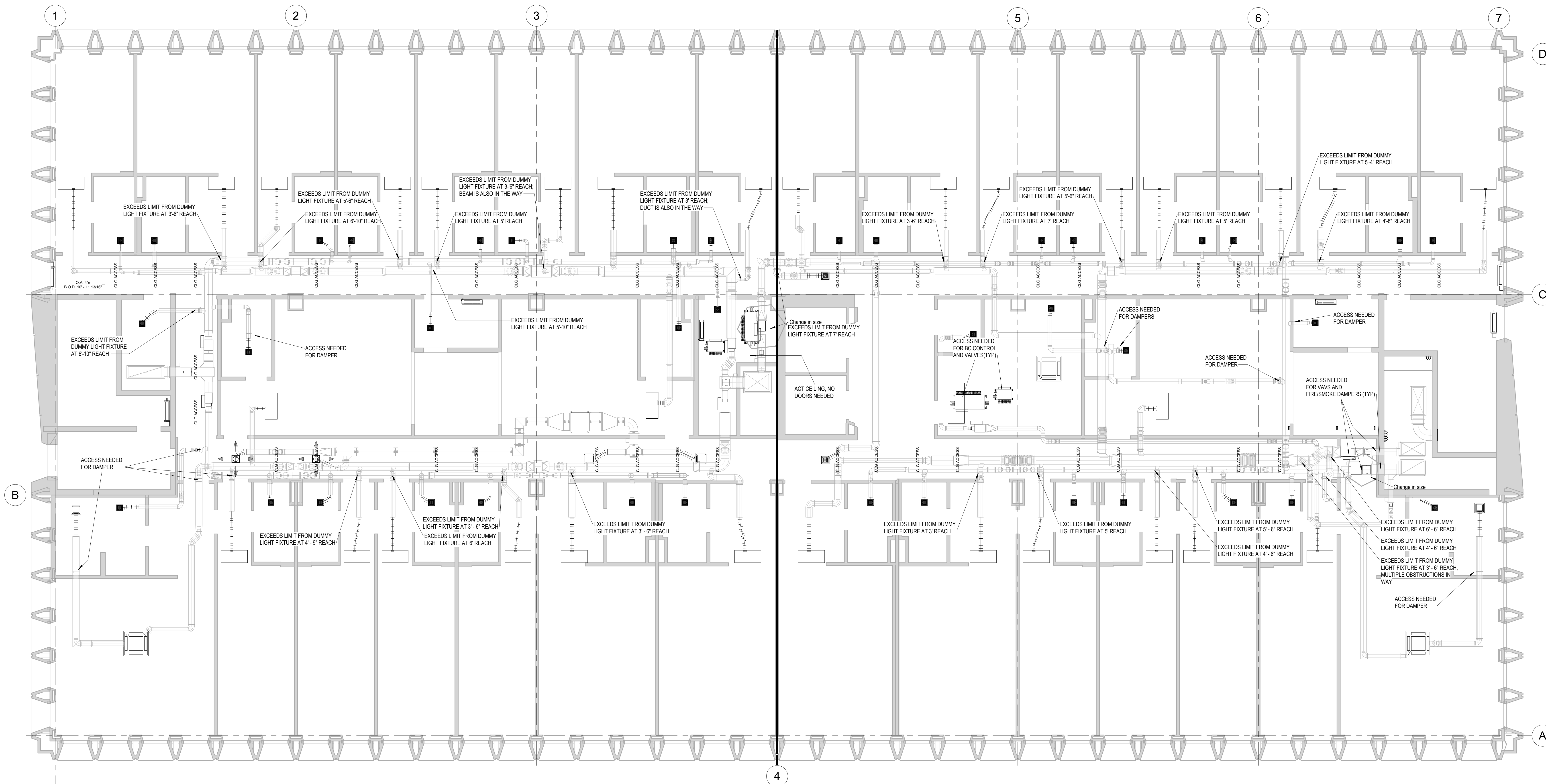
LEVEL 7 EXHAUST RGD SCHEDULE			
Mark	Actual Return Air Flow	Level	Manufacturer
DD-711	40 CFM	7TH FLOOR	Price Industries
DD-710	40 CFM	7TH FLOOR	Price Industries
DD-709	40 CFM	7TH FLOOR	Price Industries
DD-701	45 CFM	7TH FLOOR	Price Industries
DD-731	50 CFM	7TH FLOOR	Price Industries
DD-706	50 CFM	7TH FLOOR	Price Industries
DD-726	50 CFM	7TH FLOOR	Price Industries
DD-ICE RM	50 CFM	7TH FLOOR	Price Industries
DD-716	55 CFM	7TH FLOOR	Price Industries
DD-722	55 CFM	7TH FLOOR	Price Industries
DD-717	55 CFM	7TH FLOOR	Price Industries
DD-712	55 CFM	7TH FLOOR	Price Industries
DD-718	65 CFM	7TH FLOOR	Price Industries
DD-715	65 CFM	7TH FLOOR	Price Industries
DD-714	65 CFM	7TH FLOOR	Price Industries
DD-S072	70 CFM	7TH FLOOR	Price Industries
DD-724	75 CFM	7TH FLOOR	Price Industries
DD-071	75 CFM	7TH FLOOR	Price Industries
DD-708	75 CFM	7TH FLOOR	Price Industries
39			

LEVEL 7 VAV SCHEDULE						
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
RR-07A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	192 CFM
RR-07A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	193 CFM
VE7-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	510 CFM
VE7-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	355 CFM
VE7-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	50 CFM
VE7-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	795 CFM
VS7-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	355 CFM
VS7-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	410 CFM
VS7-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	270 CFM



NOTE:

1. SUBSEQUENT TO THIS COORDINATION DRAWING ISSUANCE, ARCHITECT / DEVELOPER HAS INDICATED THAT ALL HISTORICAL STYLE LIGHT FIXTURES ARE APPROVED FOR CEILING ACCESS. THIS IS TYPICAL ON ALL FLOORS. EMS HAS PROVEN THIS TO BE TRUE IN THE FIELD.



① 7TH FLOOR CEILING ACCESS
 3/16" = 1'-0"

No.	Description	Date
0	AS-BUILT	6/20/2022
1	ADDED ACCESS NOTE	10/28/2022

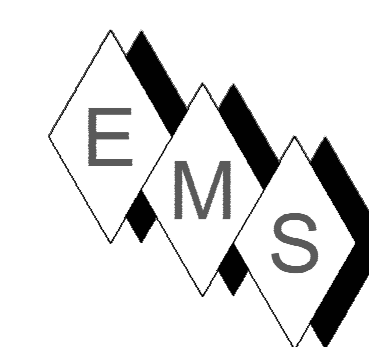
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

CEILING ACCESS POINTS

Project Number	5072
Date	12/15/20
Drawn By	T.H.
Checked By	S.C.

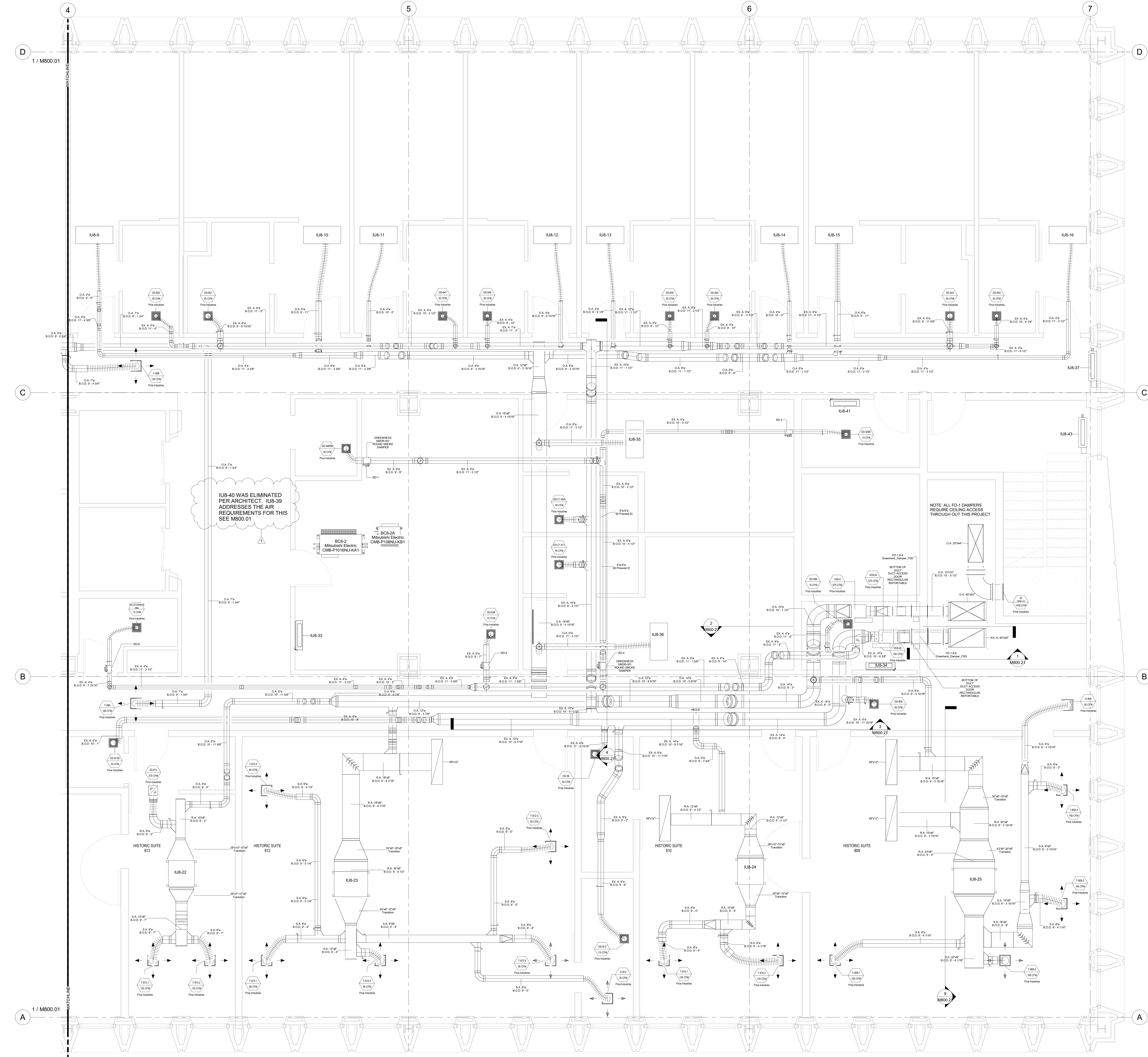
M700.30



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR, SUPPLY AIR AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE UNINSULATED.
 - 7) SMOKE DAMPERS ARE ELIMINATED SINCE FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH ONLY FEED COMMON AREAS, AND FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH FEED COMPARTMENTALIZED ROOMS SEPARATED FROM COMMON AREAS.



IUB-40 WAS ELIMINATED PER ARCHITECT. IUB-38 ADDRESSES THE AIR REQUIREMENTS FOR THIS SEE M800.01

NOTE: ALL FD-1 DAMPERS REQUIRE CEILING ACCESS THROUGH OUT THIS PROJECT

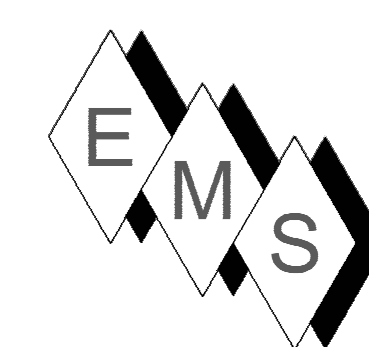
No.	Description	Date
0	AS-BUILT	6/20/2022
1	CLARIFICATION NOTE	10/28/2022

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

EIGHTH FLOOR NORTH HVAC PART. PLAN

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

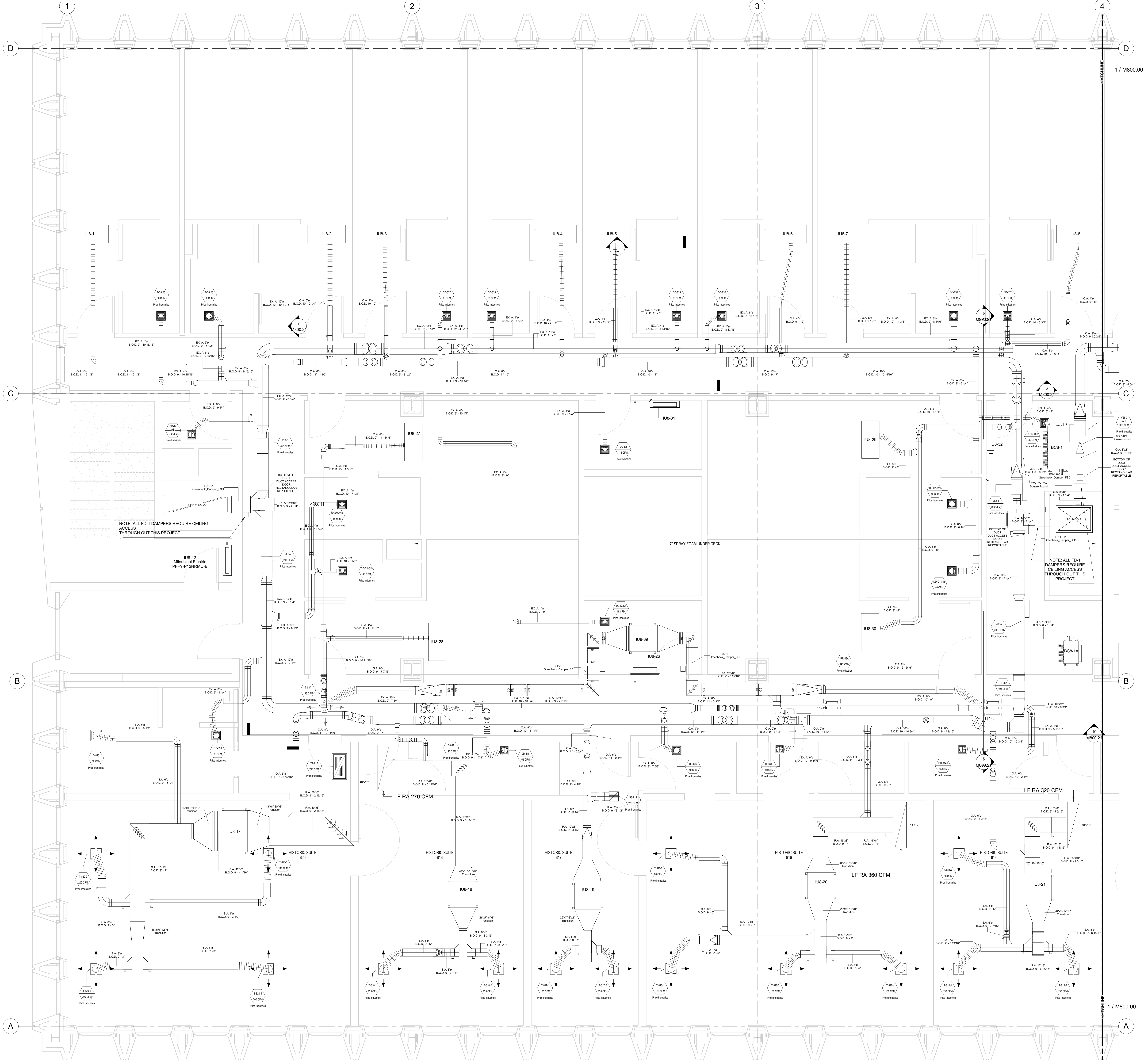
M800.00



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PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5X O.A. RADIUS, THEY ARE 1.0X O.A. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINTING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE SOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR, SUPPLY AIR AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE UNINSULATED.
 - 7) SMOKE DAMPERS ARE ELIMINATED SINCE FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH ONLY FEED COMMON AREAS, AND FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH FEED COMPARTMENTALIZED ROOMS SEPARATED FROM COMMON AREAS.



No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

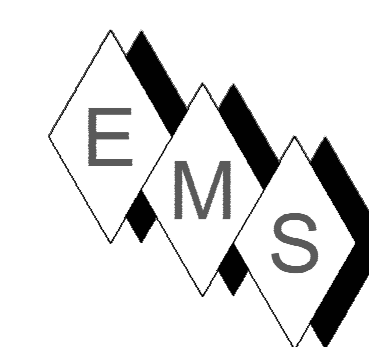
EIGHTH FLOOR SOUTH HVAC PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M800.01

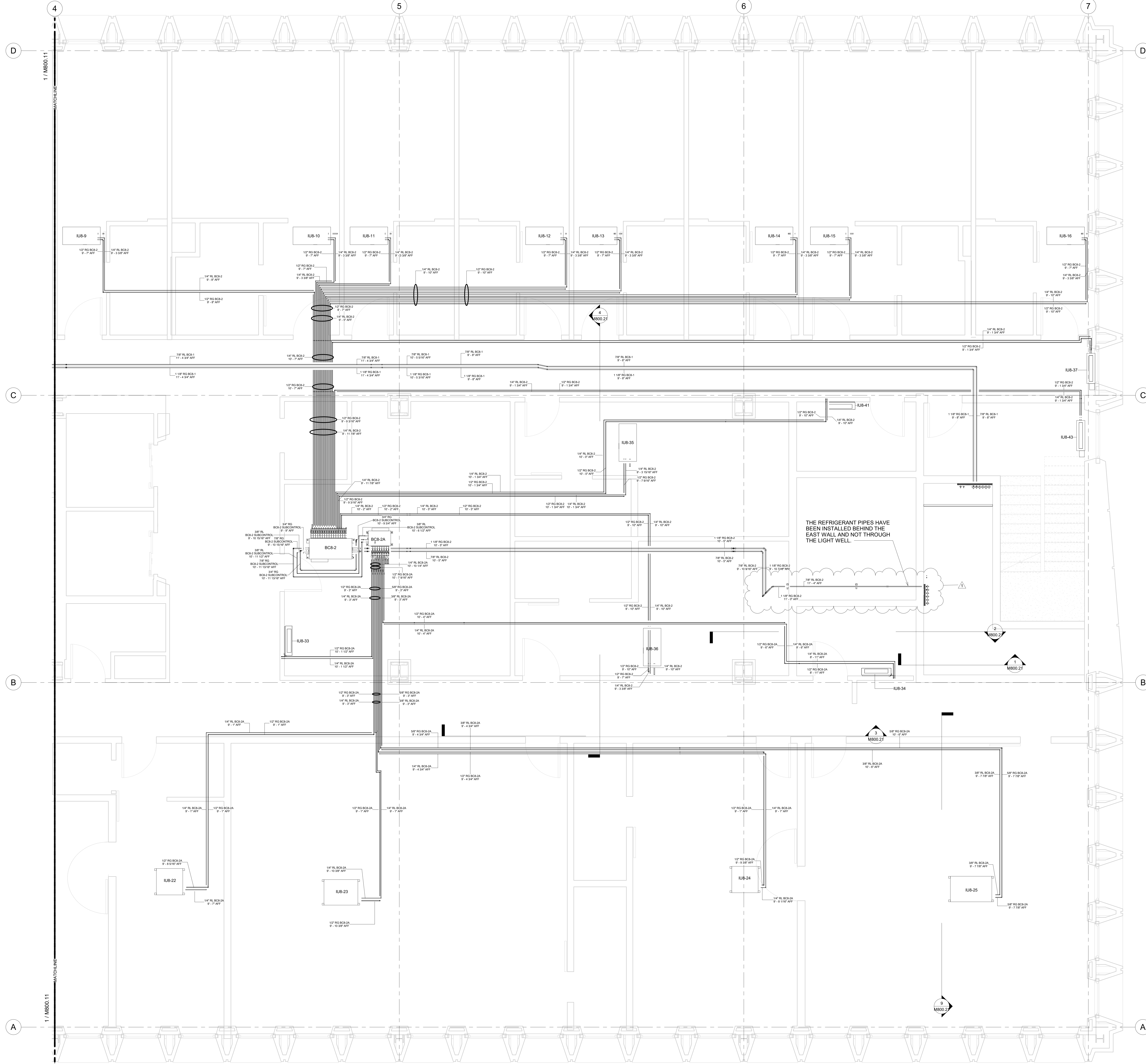
1 8TH FLOOR DUCTS SOUTH
 3/8" = 1'-0"

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PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BENDS.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS RC PURSE AND BRACKETED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR, SUPPLY AIR AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE UNINSULATED.
 - 7) SMOKE DAMPERS ARE ELIMINATED SINCE FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH ONLY FEED COMMON AREAS, AND FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH FEED COMPARTMENTALIZED ROOMS SEPARATED FROM COMMON AREAS.



THE REFRIGERANT PIPES HAVE BEEN INSTALLED BEHIND THE EAST WALL AND NOT THROUGH THE LIGHT WELL.

No.	Description	Date
0	AS-BUILT	6/20/2022
1	CLARIFICATION	10/28/2022
	NOTE	

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

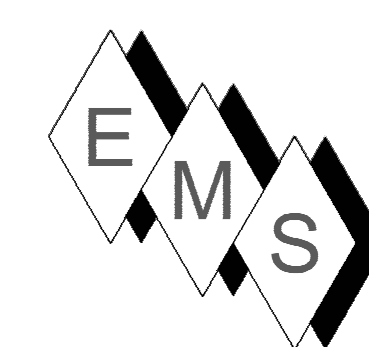
EIGHTH FLOOR NORTH REFRIG. PART. PLAN

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

M800.10

8TH FLOOR REFRIGERATION NORTH
 3/8" = 1'-0"

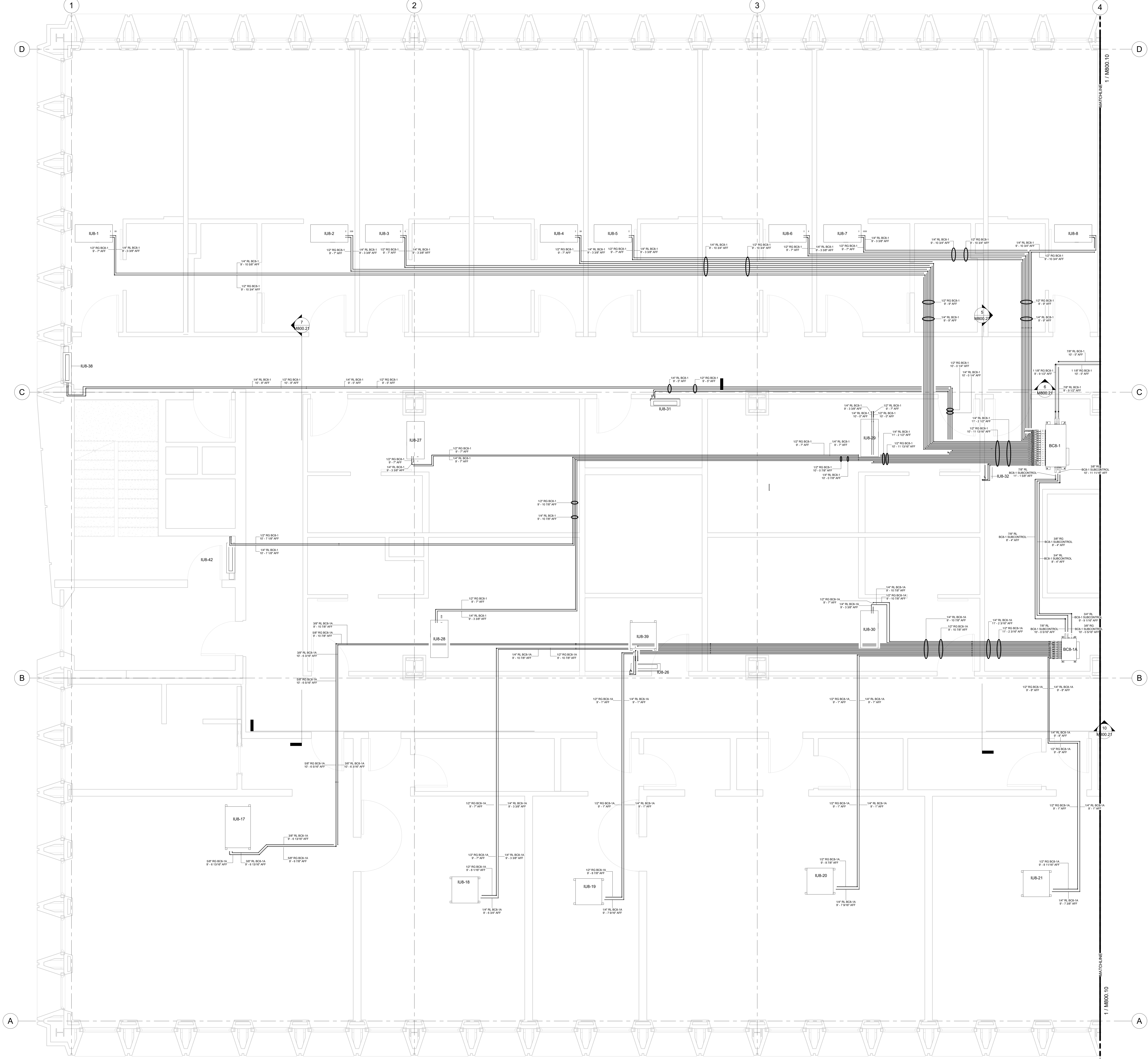
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 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHORT DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE SOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR, SUPPLY AIR AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE UNINSULATED.
 - 7) SMOKE DAMPERS ARE ELIMINATED SINCE FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH ONLY FEED COMMON AREAS, AND FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH FEED COMPARTMENTALIZED ROOMS SEPARATED FROM COMMON AREAS.



No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

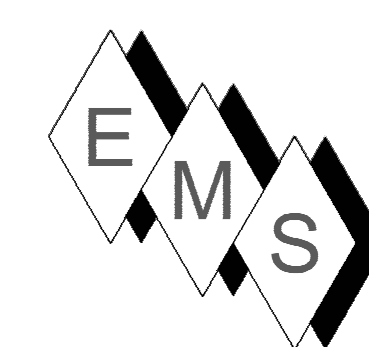
EIGHTH FLOOR SOUTH REFRIG. PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M800.11

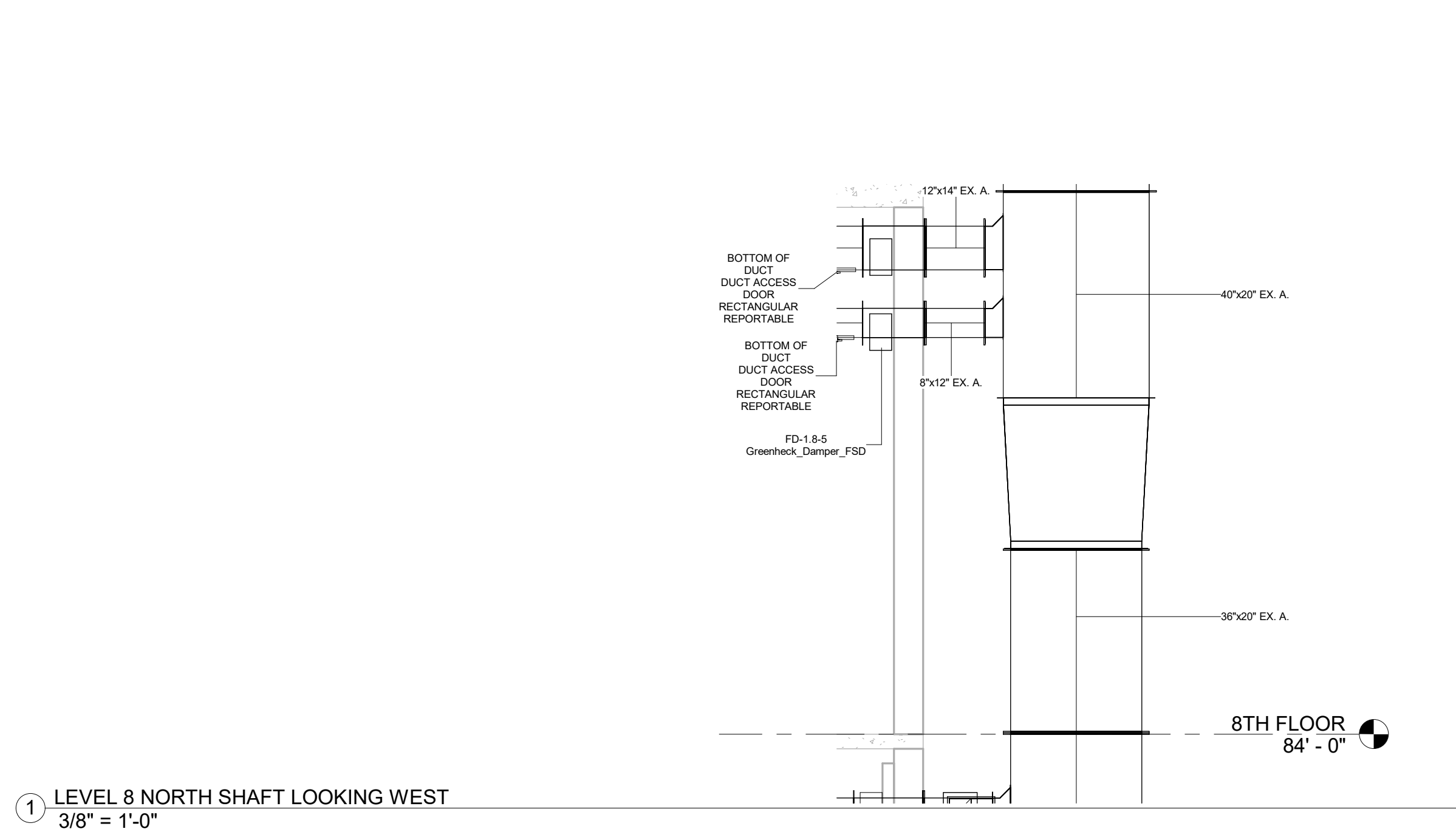
1 8TH FLOOR REFRIGERATION SOUTH
 3/8" = 1'-0"

10/26/2022 6:52:08 PM

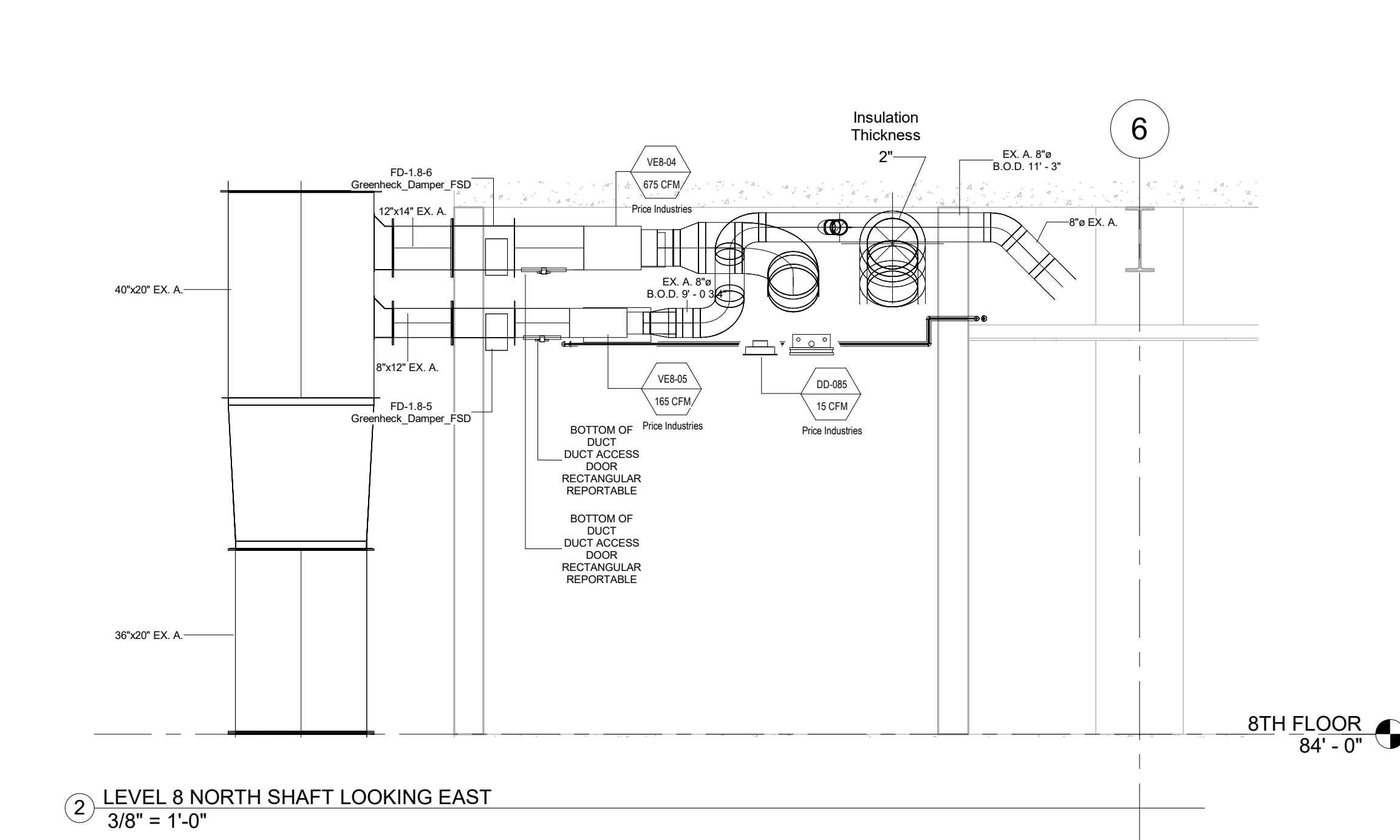


EASTERN MECHANICAL SERVICES
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 Ph. 203.792.7668 www.emsinc.us

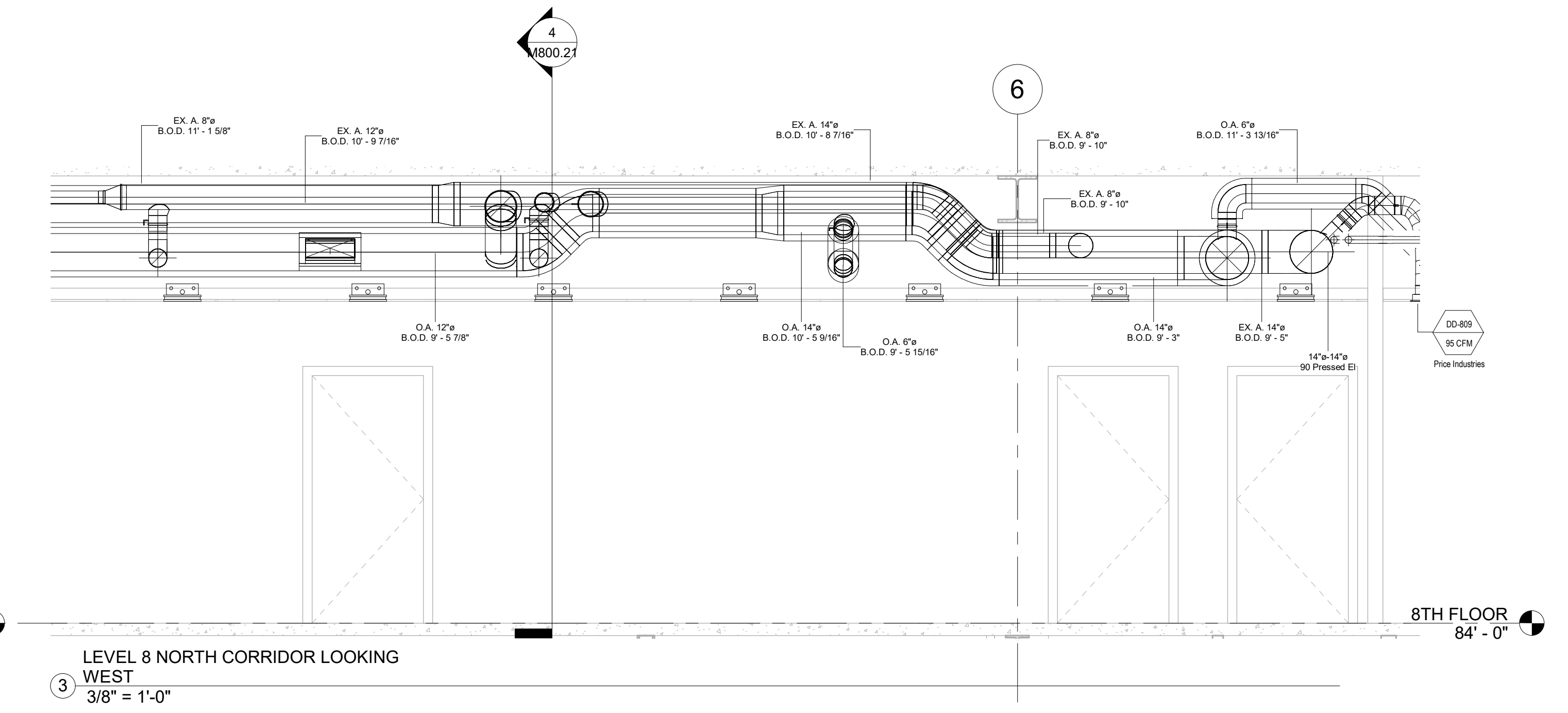
- NOTE:**
- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.
 - 2) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS IN THE HALLWAYS TO OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS NO PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE SOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
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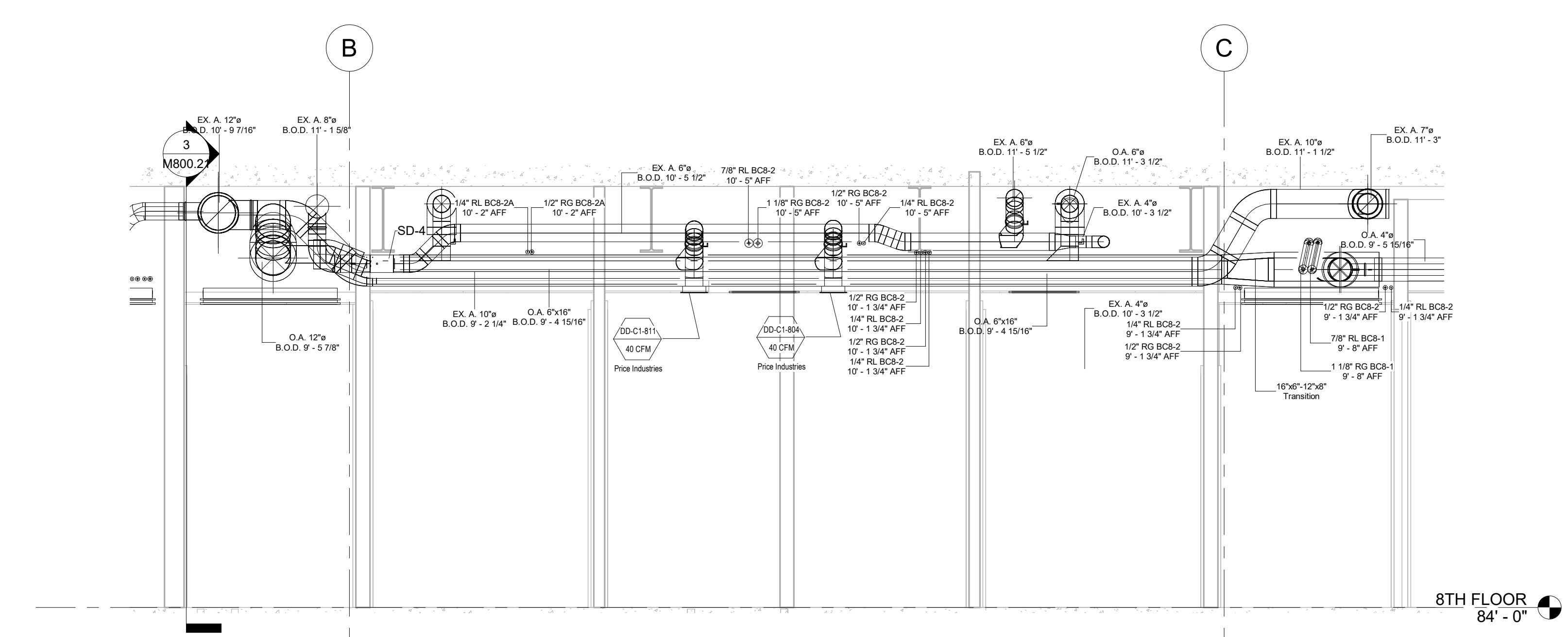
1 LEVEL 8 NORTH SHAFT LOOKING WEST
3/8" = 1'-0"



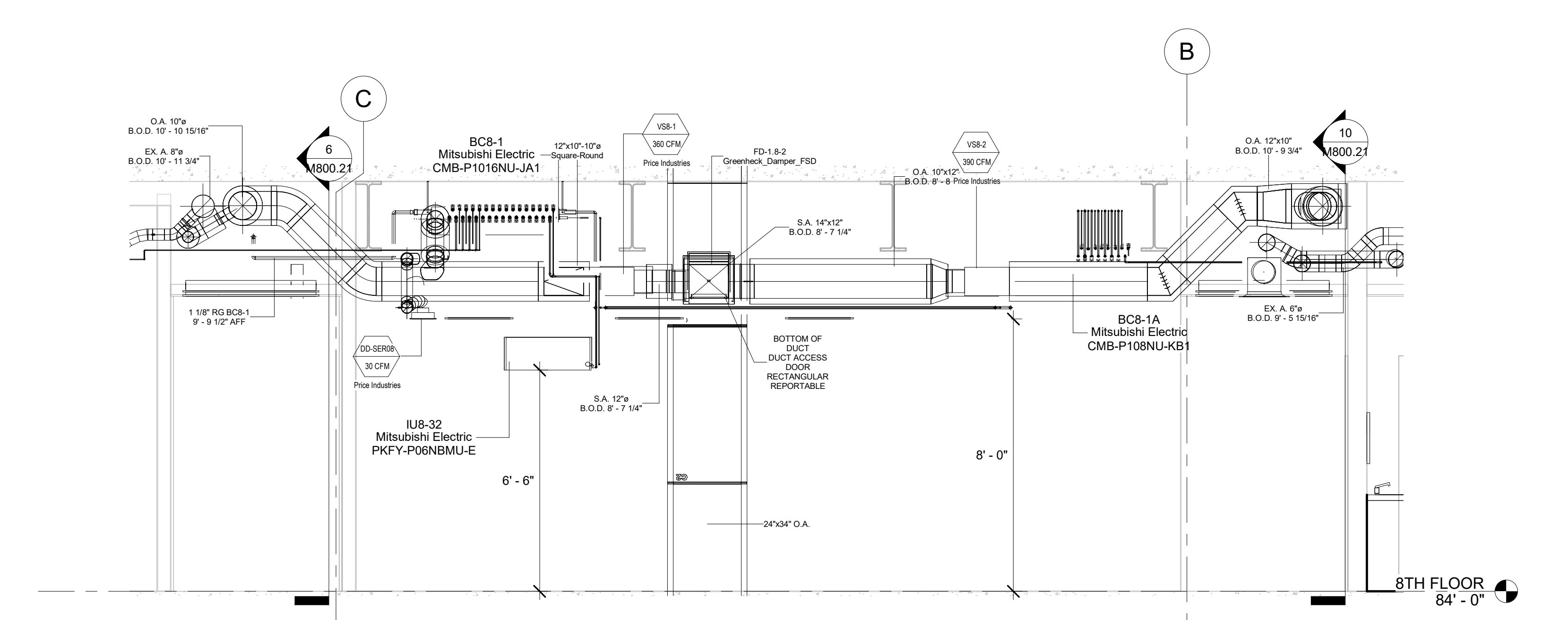
2 LEVEL 8 NORTH SHAFT LOOKING EAST
3/8" = 1'-0"



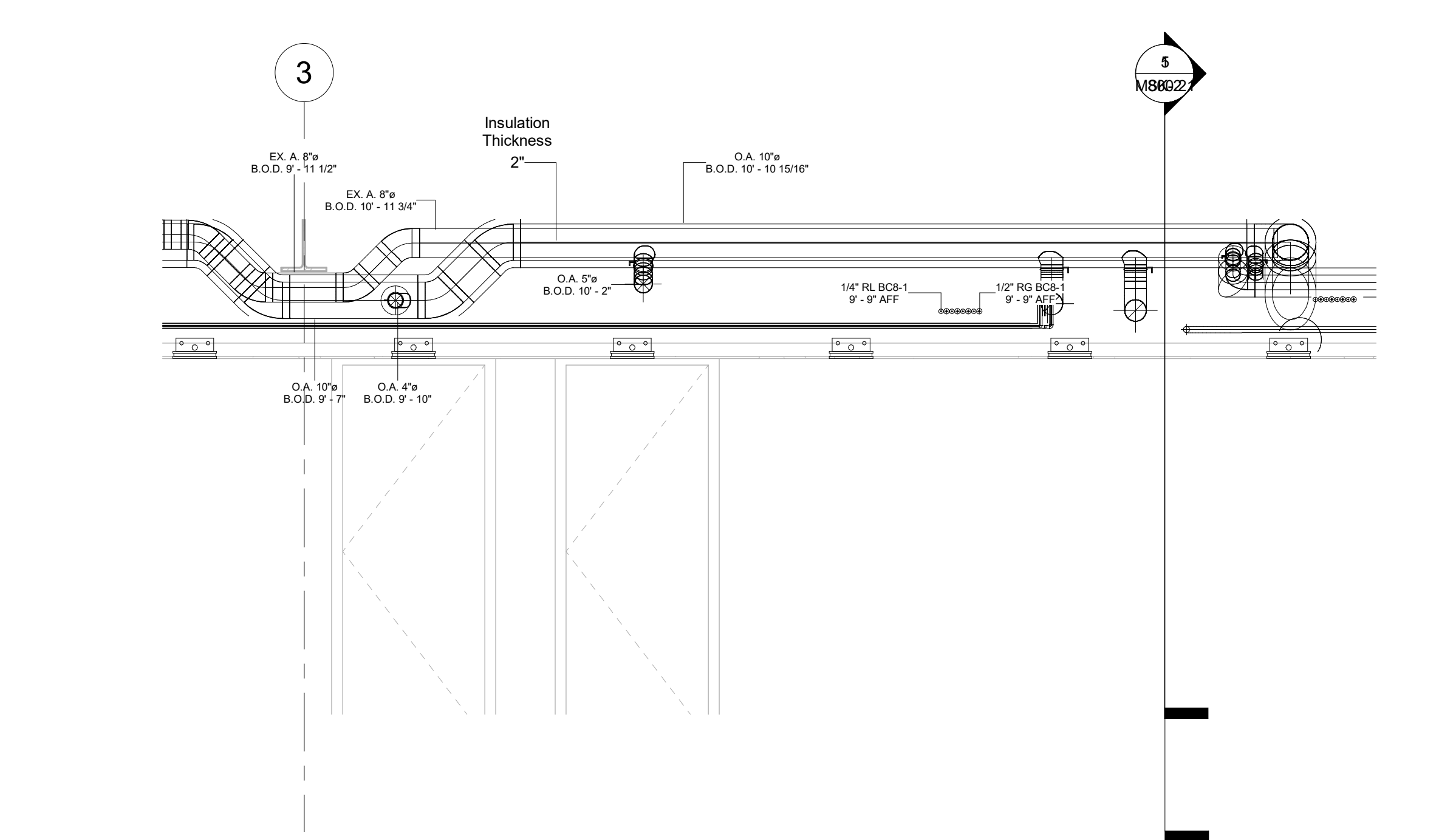
3 LEVEL 8 NORTH CORRIDOR LOOKING WEST
3/8" = 1'-0"



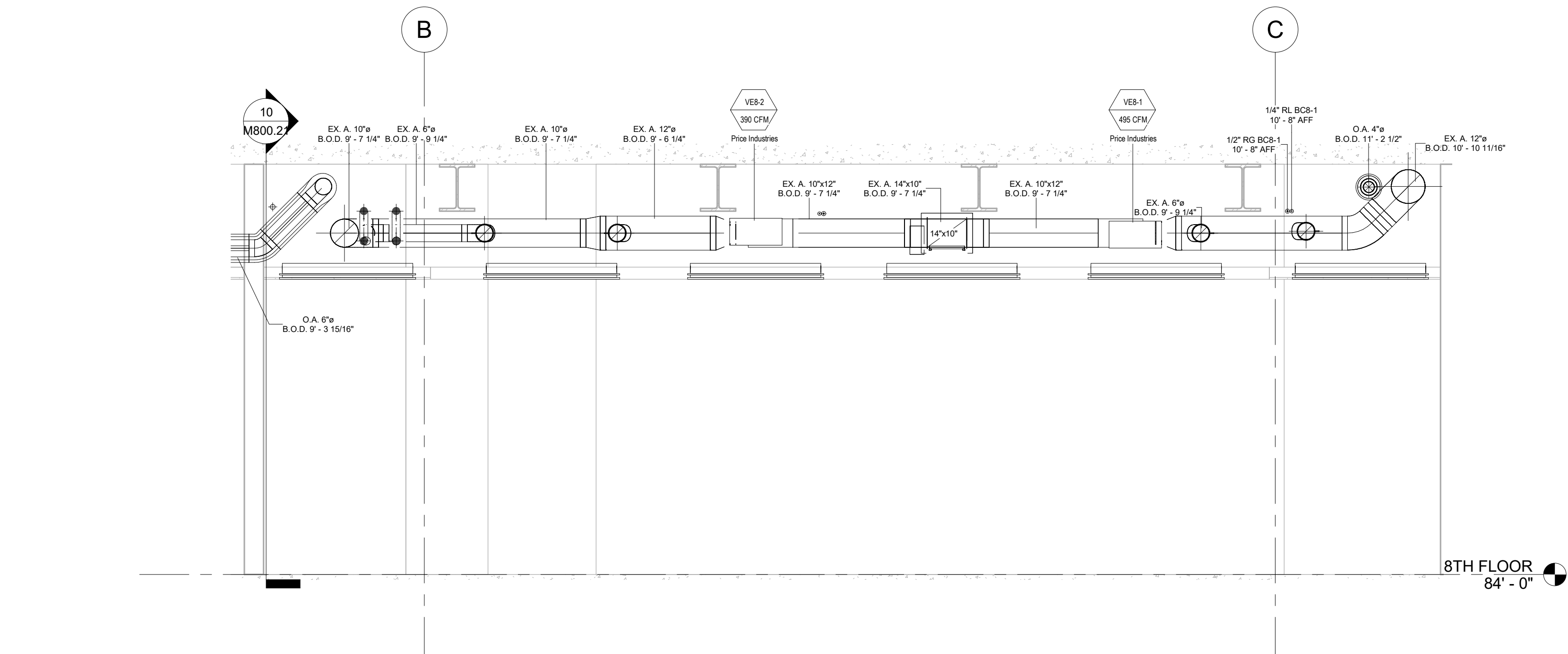
4 LEVEL 8 NORTH CENTER KING SUITES LOOKING SOUTH
3/8" = 1'-0"



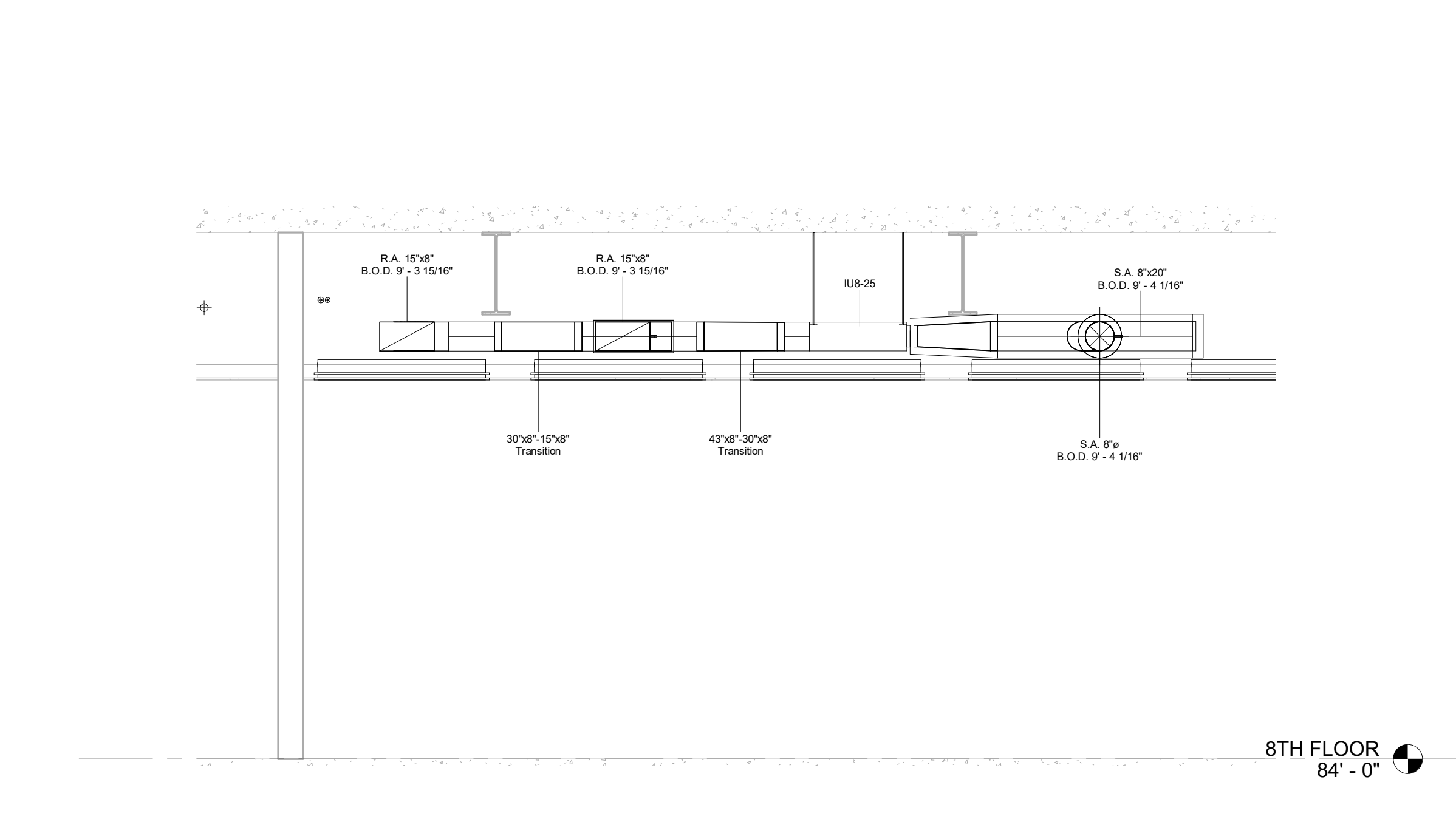
5 LEVEL 8 CENTER CORE HOUSEKEEPING LOOKING NORTH
3/8" = 1'-0"



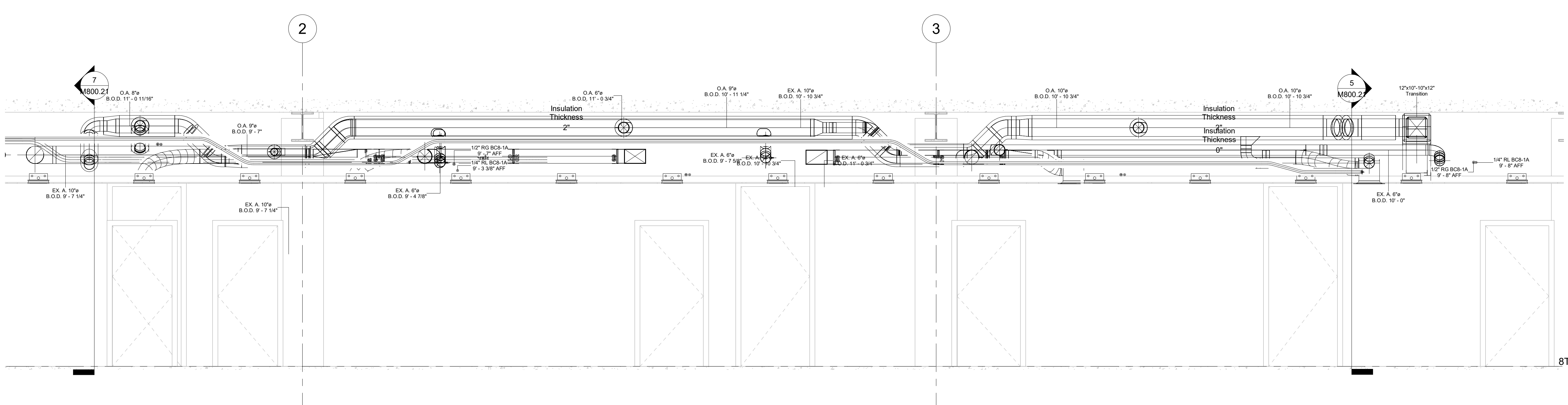
6 LEVEL 8 WEST CORRIDOR LOOKING WEST
3/8" = 1'-0"



7 LEVEL 8 SOUTH CORRIDOR LOOKING SOUTH
3/8" = 1'-0"



8 LEVEL 8 HISTORIC SUITE 809 LOOKING NORTH
3/8" = 1'-0"



9 LEVEL 8 EAST CORRIDOR LOOKING EAST
3/8" = 1'-0"

No.	Description	Date
0	AS-BUILT	6/20/2022

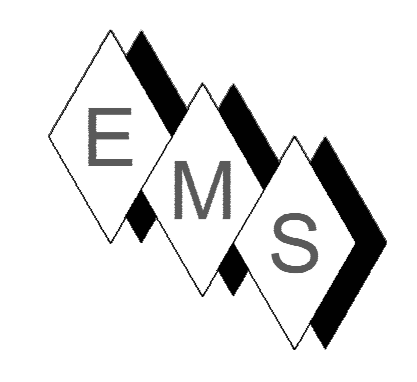
HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

EIGHTH FLOOR SECTION VIEWS

Project Number 5072
 Date 12/15/20
 Drawn By T.H.
 Checked By T.H.

M800.21

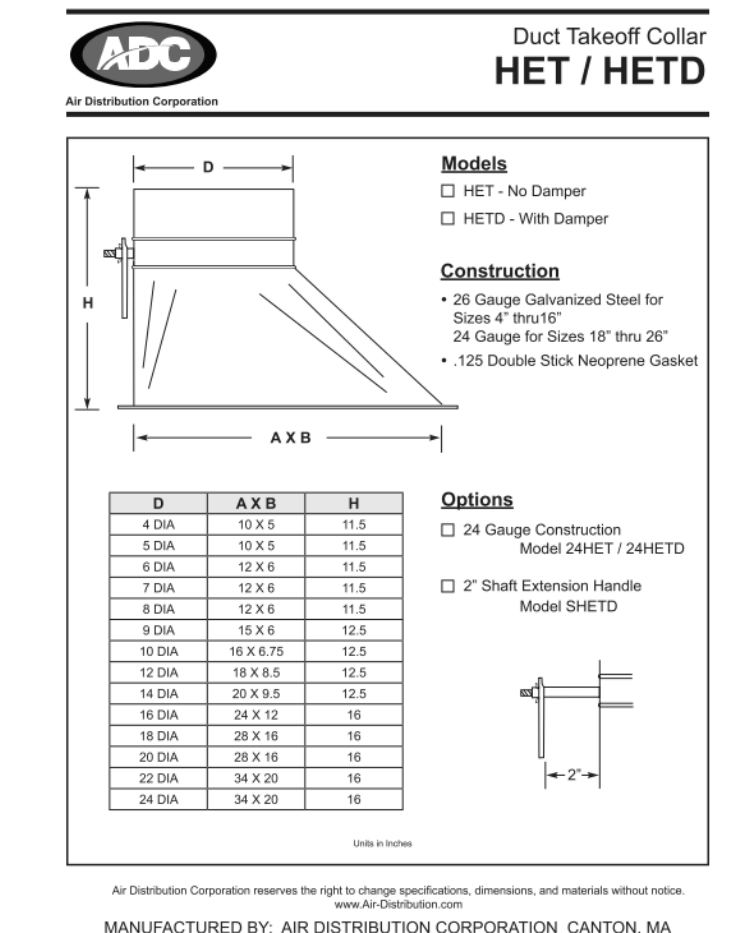
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 3 Starr Street, Danbury, CT 06810
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PLAN NORTH →

- NOTE:**
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 - 2) 10" ROUND HETOS ARE PURCHASED FITTINGS WHICH WILL MOUNT ON 8" HIGH DUCT AND GET THE REQUIRED CFMS FOR 10" ROUND. SEE SUBMITTAL BELOW.
 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
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 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE ES AND SUB-BC CONTROLLERS.
 - 6) OUTDOOR AIR SUPPLY AIR DUCTS ARE INSULATED WITH 1 1/2" THICK DUCT WRAP PER ENGINEERING VARIANCE. EXHAUST AND RETURN AIR DUCTS ARE UNINSULATED.
 - 7) INSULATION AND LINER ARE NOT SHOWN TO PROVIDE DETAIL CLARITY FOR ENGINEERING REVIEW.
 - 8) THE ERV O.A. SUPPLY AND R.A. (EXHAUST FROM SPACE TO THE ERV) DUCTS ARE INTERNALLY LINED WITH 1" PRESSURE LINING FROM THE ERV TO THE FIRST ELBOW. SAG DUCTS DO NOT REQUIRE EXTERNAL DUCT WRAP. O.A. FROM INTAKE LOWERS AND EX. A TO EXHAUST LOWERS ARE NOT INTERNALLY LINED.



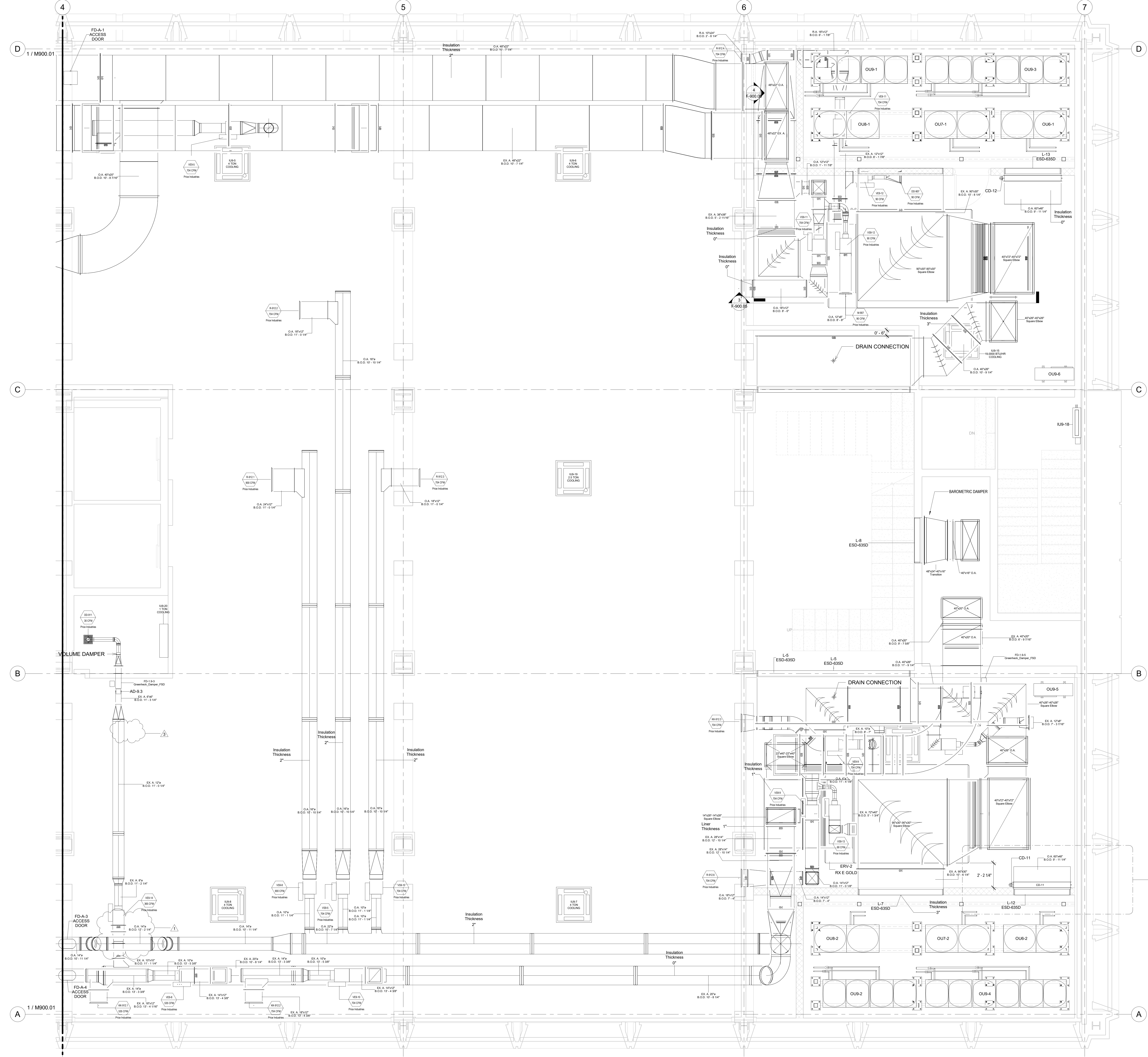
No.	Description	Date
0	Duct changes due to incorrect steel elev	8/25/2021
1	RAISE SPK BRANCH	9/14/2021
2	AS-BUILT	8/20/2022
3	EXHAUST GRILLE NOT NEEDED	4/14/2023

HOTEL MARCELL BY HILTON
PIRELLI HOTEL

NINTH FLOOR NORTH HVAC PART PLAN

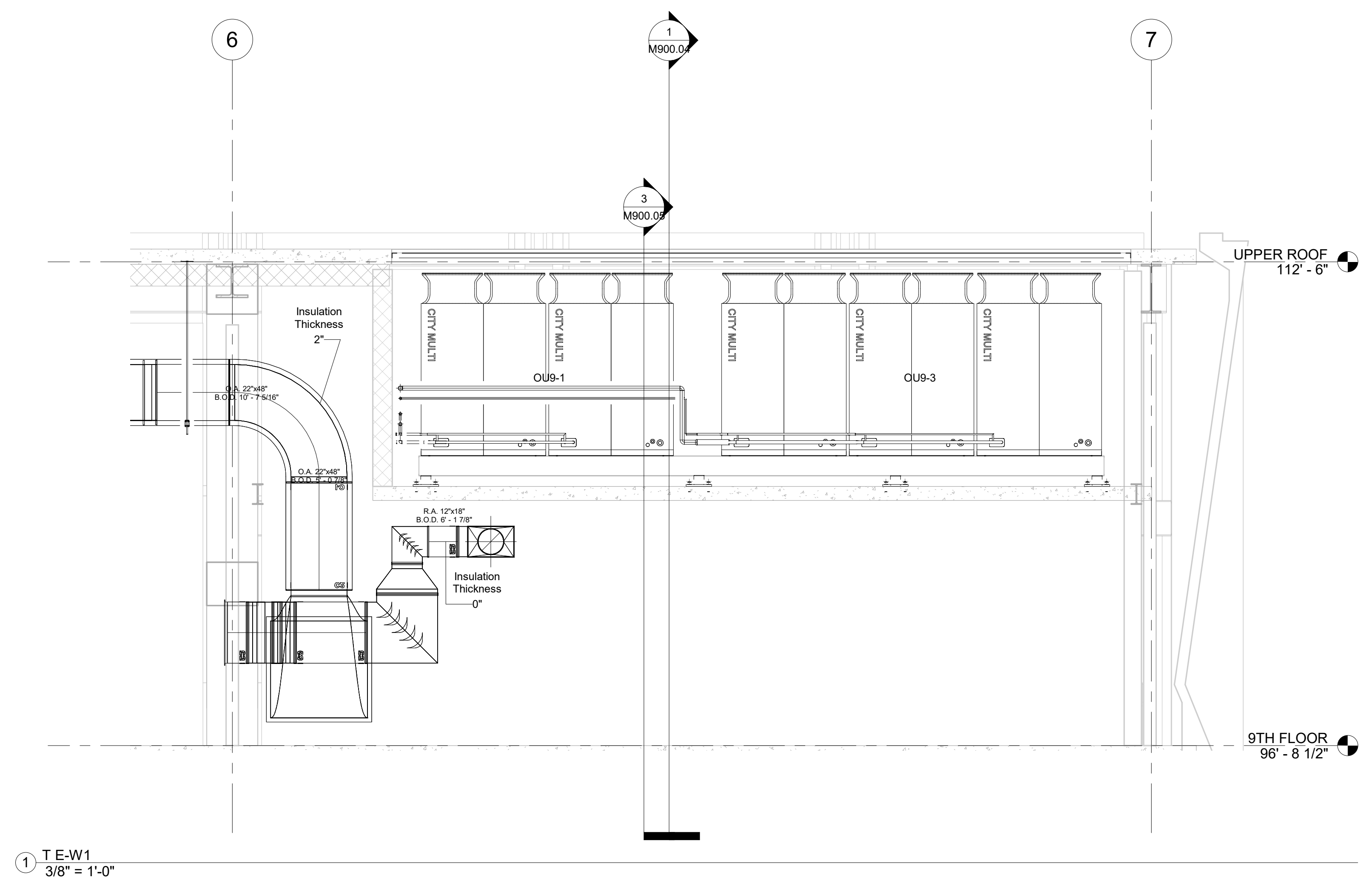
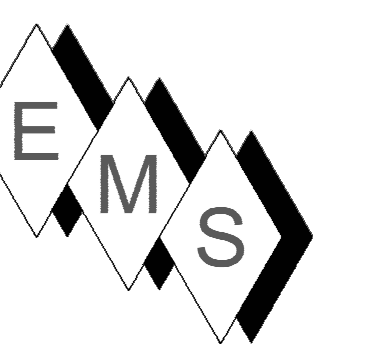
Project Number: 5072
 Date: 12/15/20
 Drawn By: TH
 Checked By: TH

M900.00

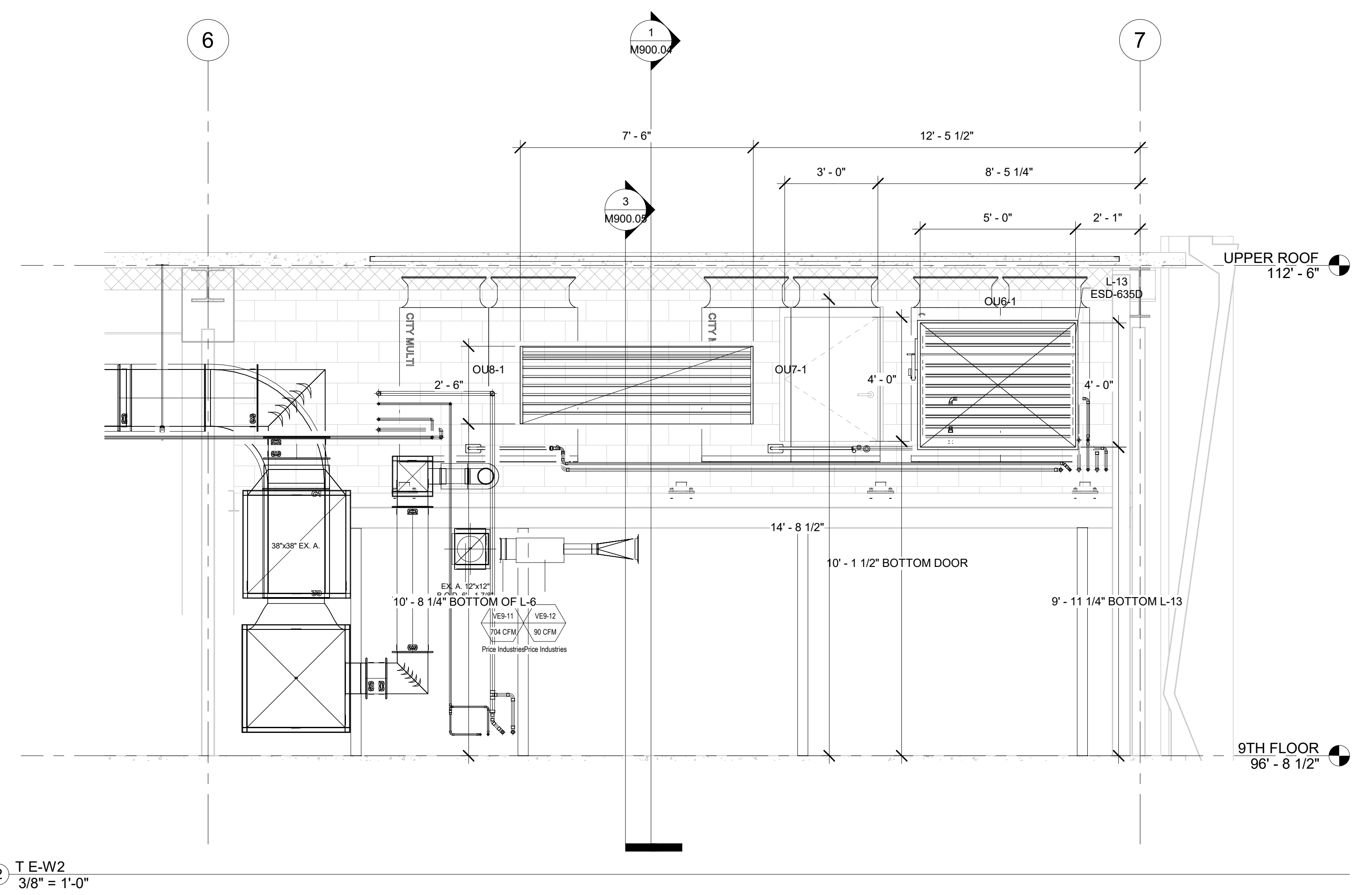


9TH FLOOR DUCTS - NORTH
 3/8" = 1'-0"

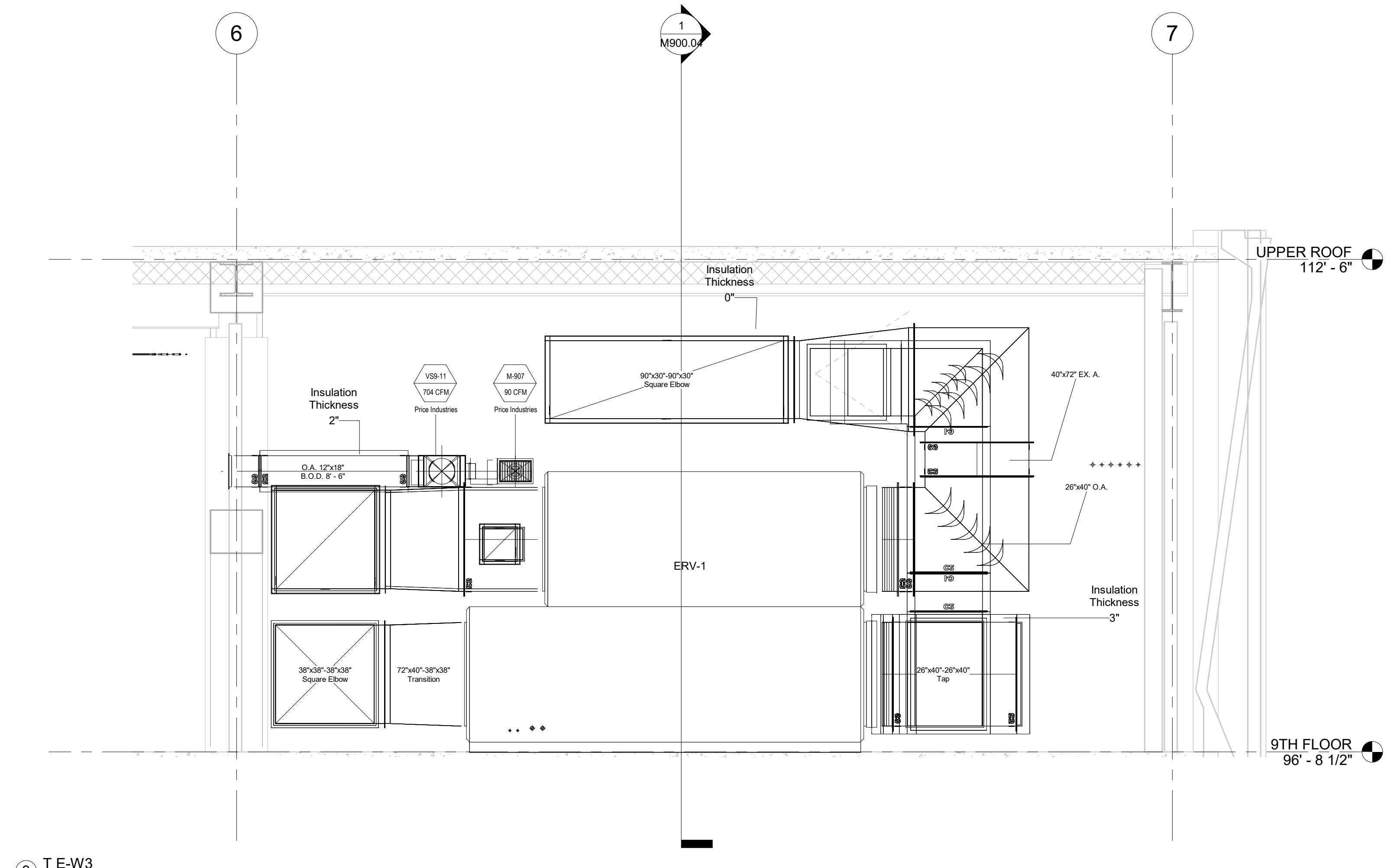
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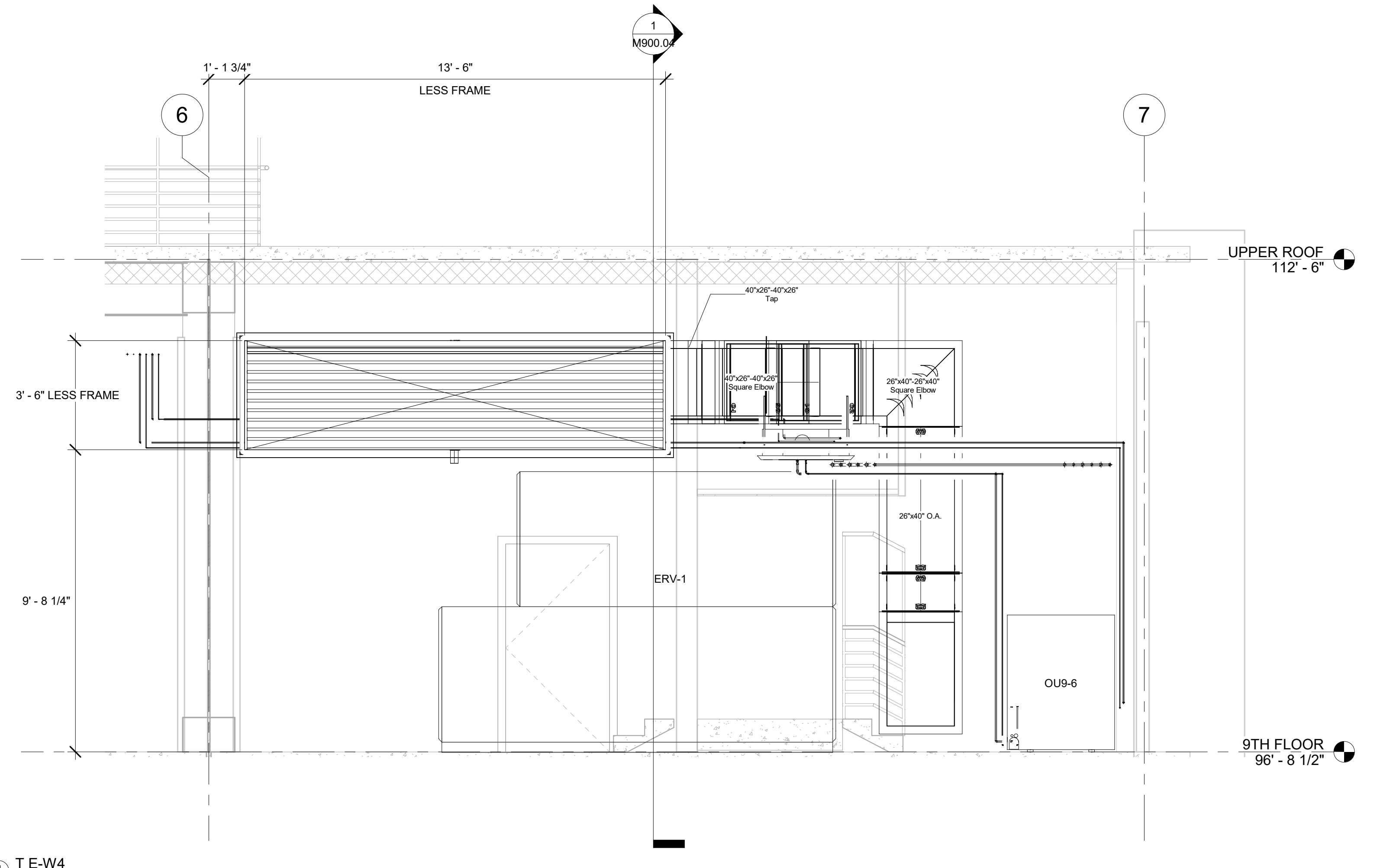
1 T E-W1
3/8" = 1'-0"



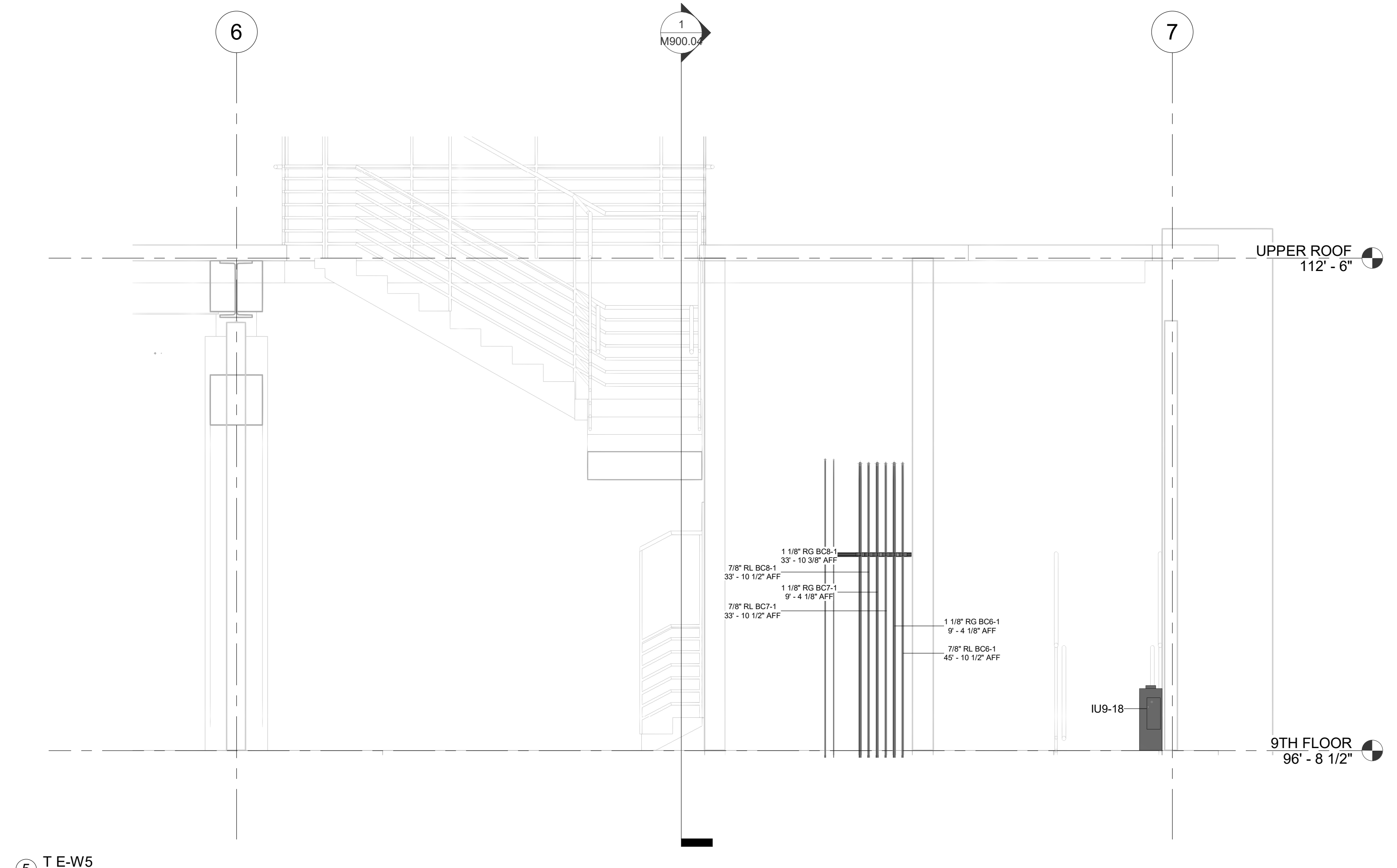
2 T E-W2
3/8" = 1'-0"



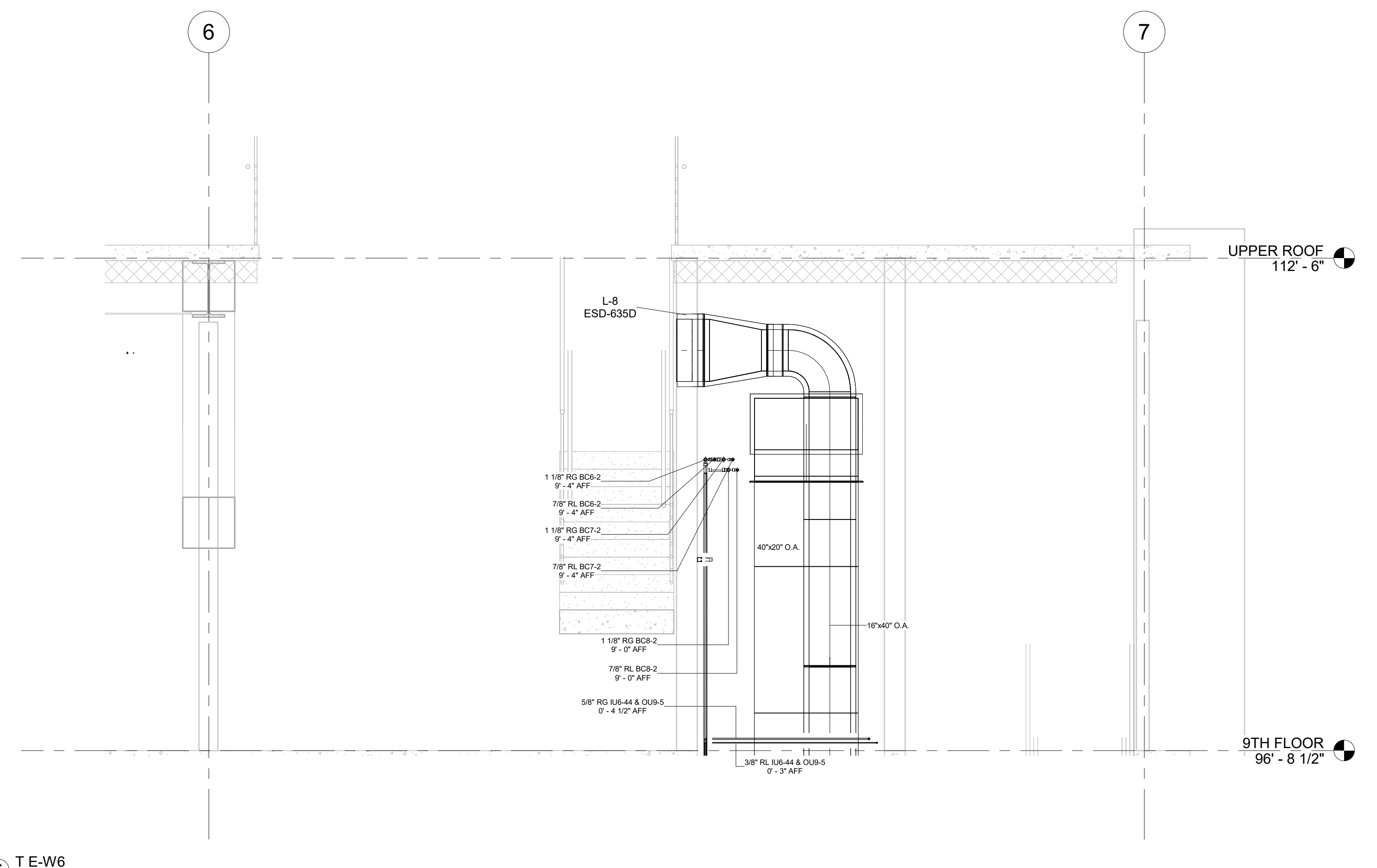
3 T E-W3
3/8" = 1'-0"



4 T E-W4
3/8" = 1'-0"



5 T E-W5
3/8" = 1'-0"



6 T E-W6
3/8" = 1'-0"

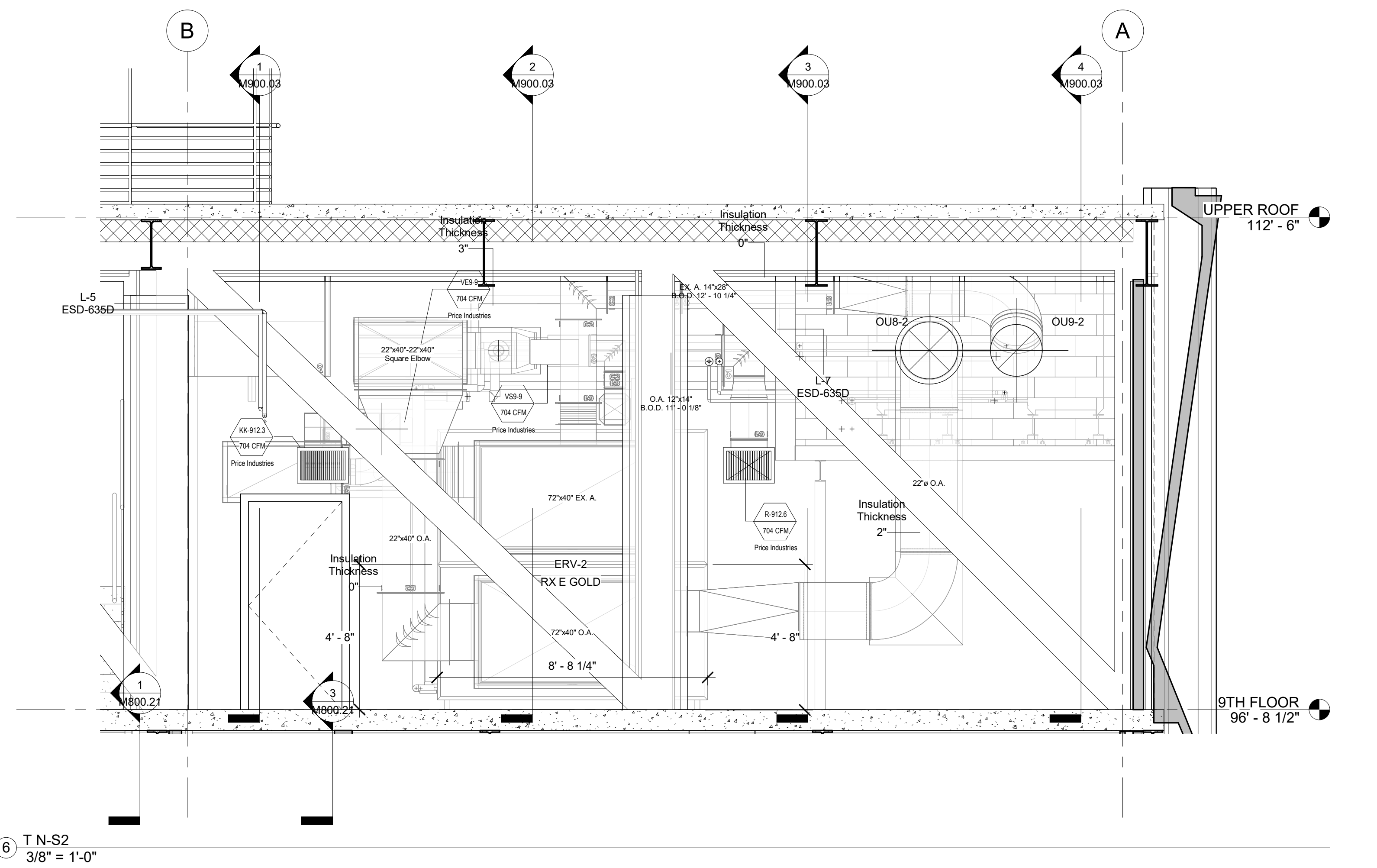
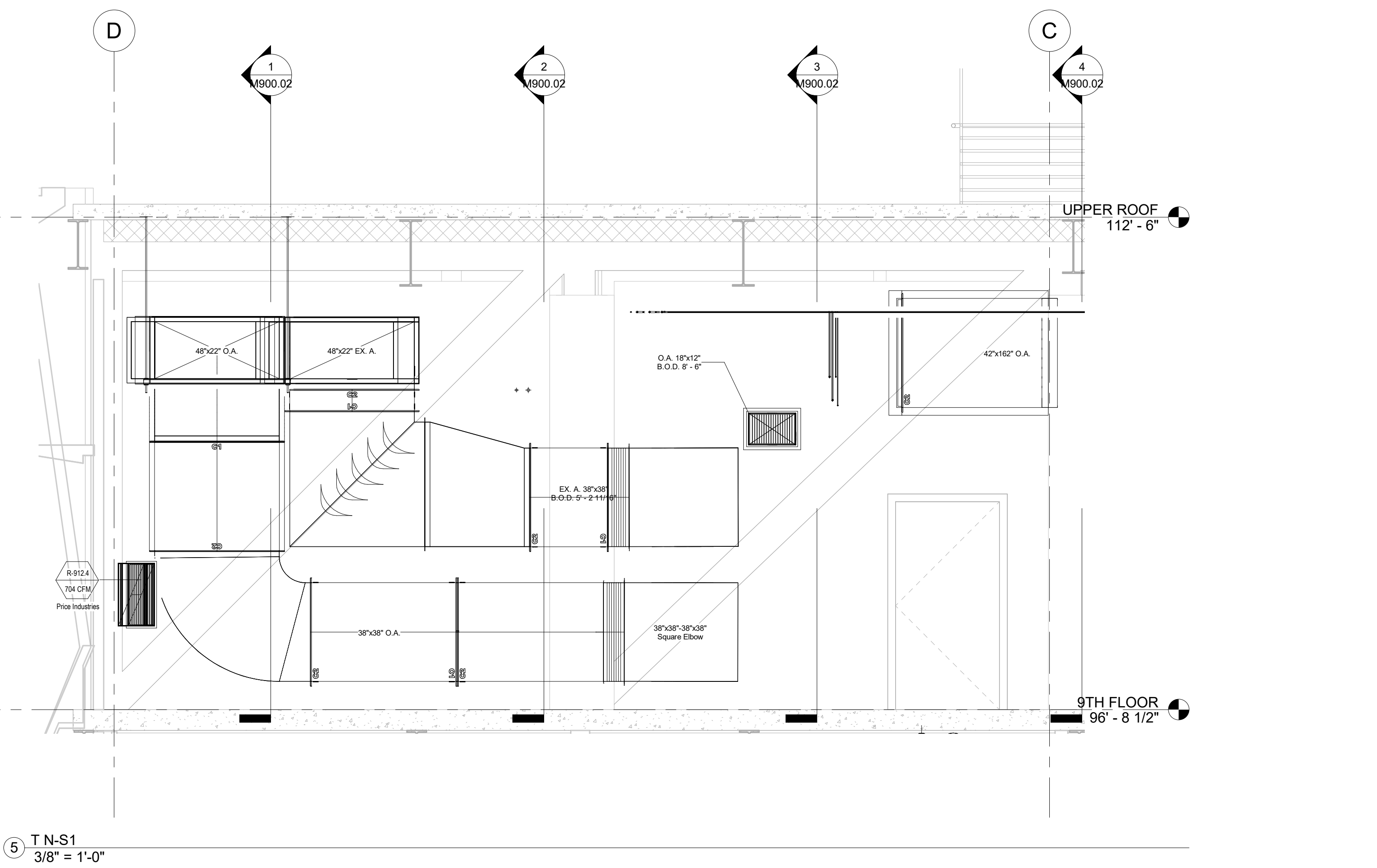
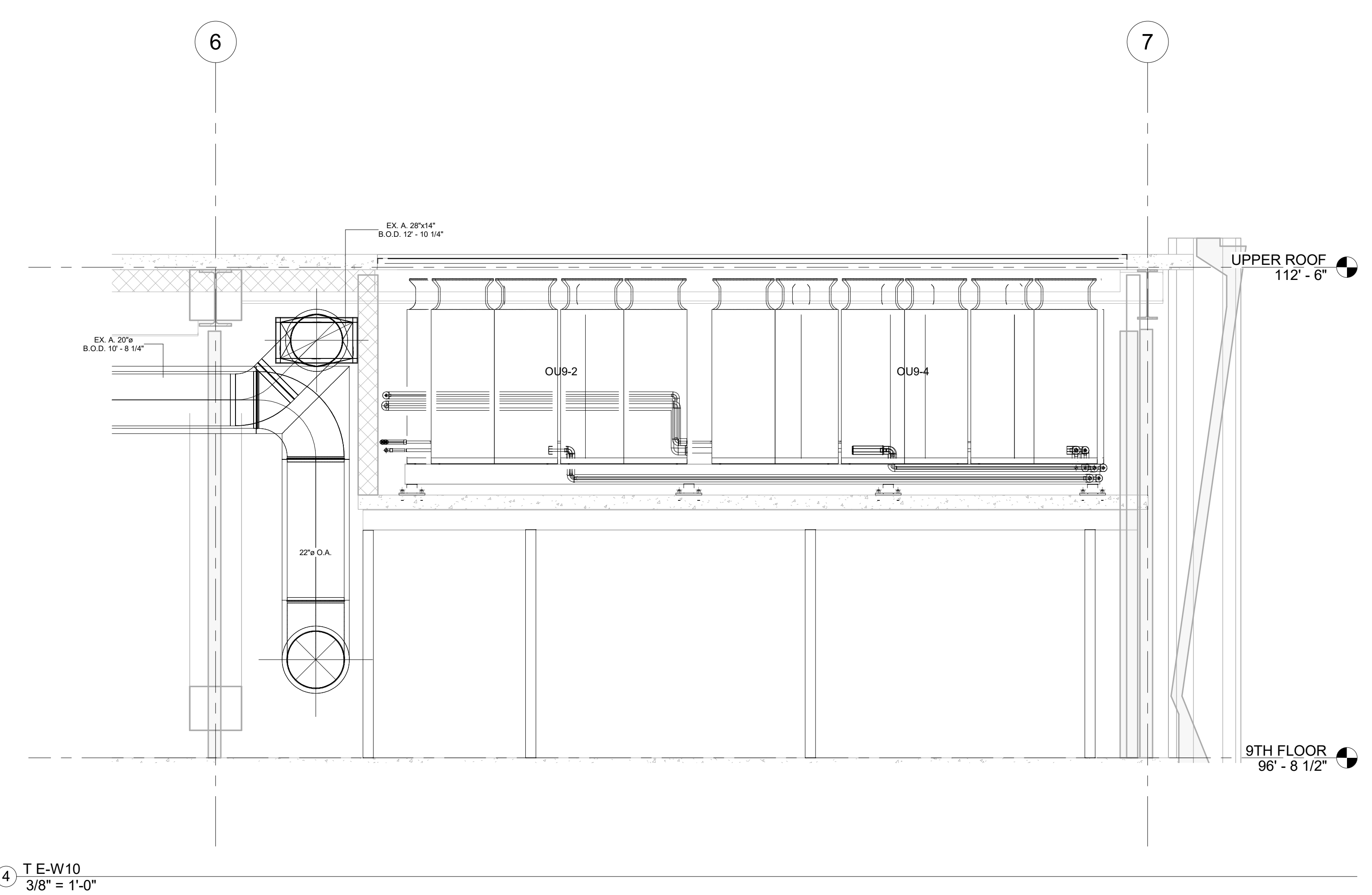
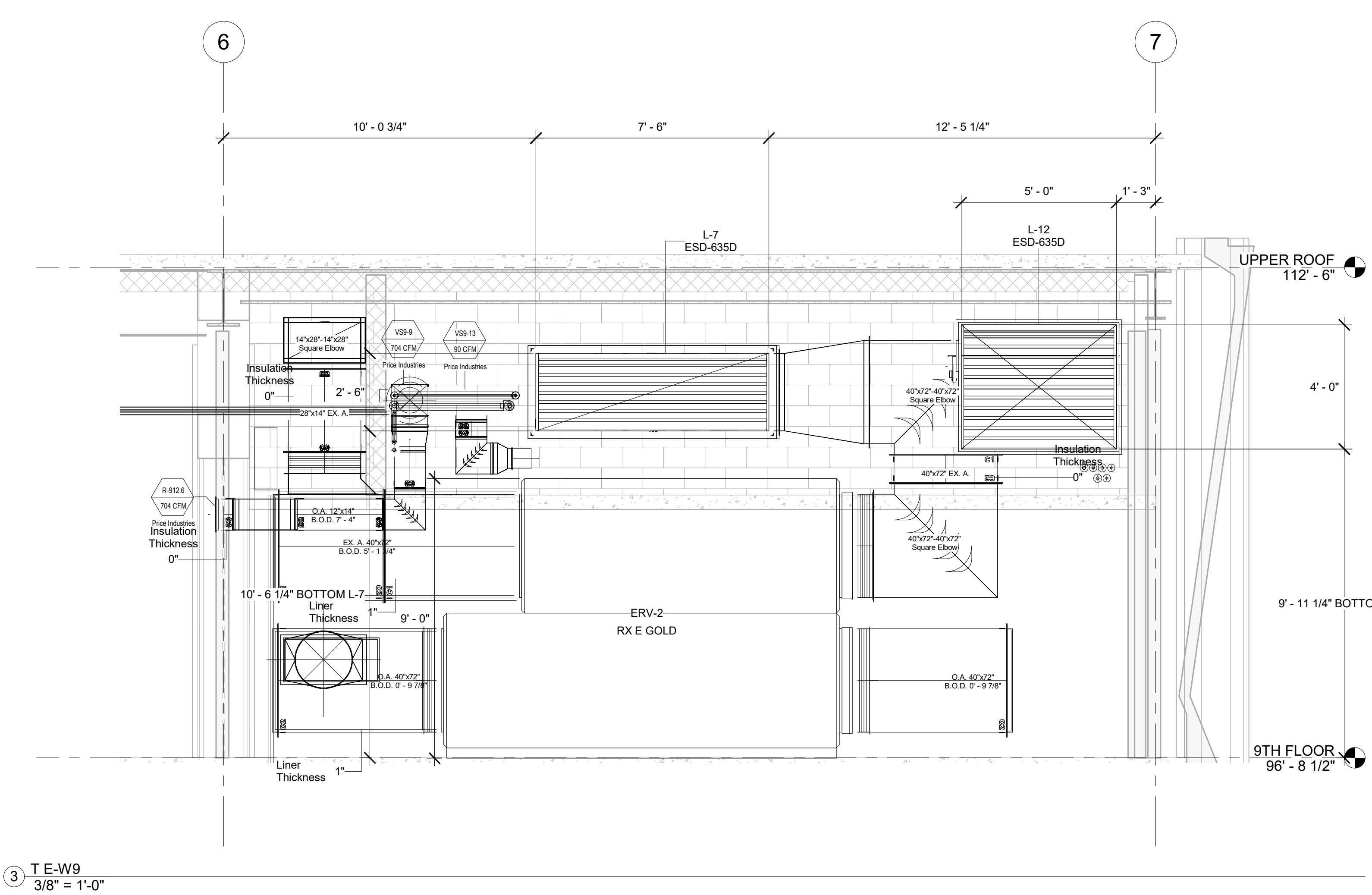
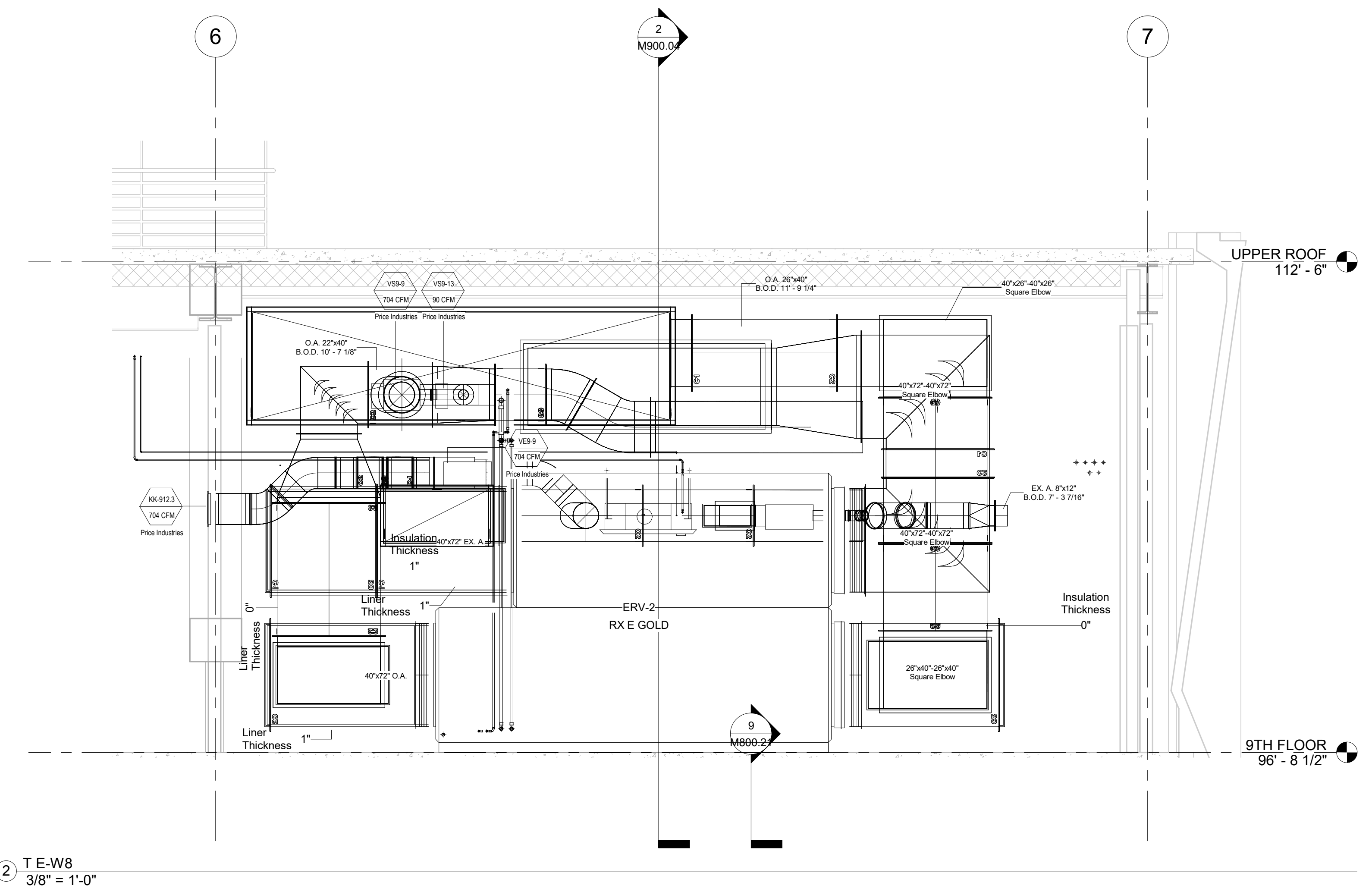
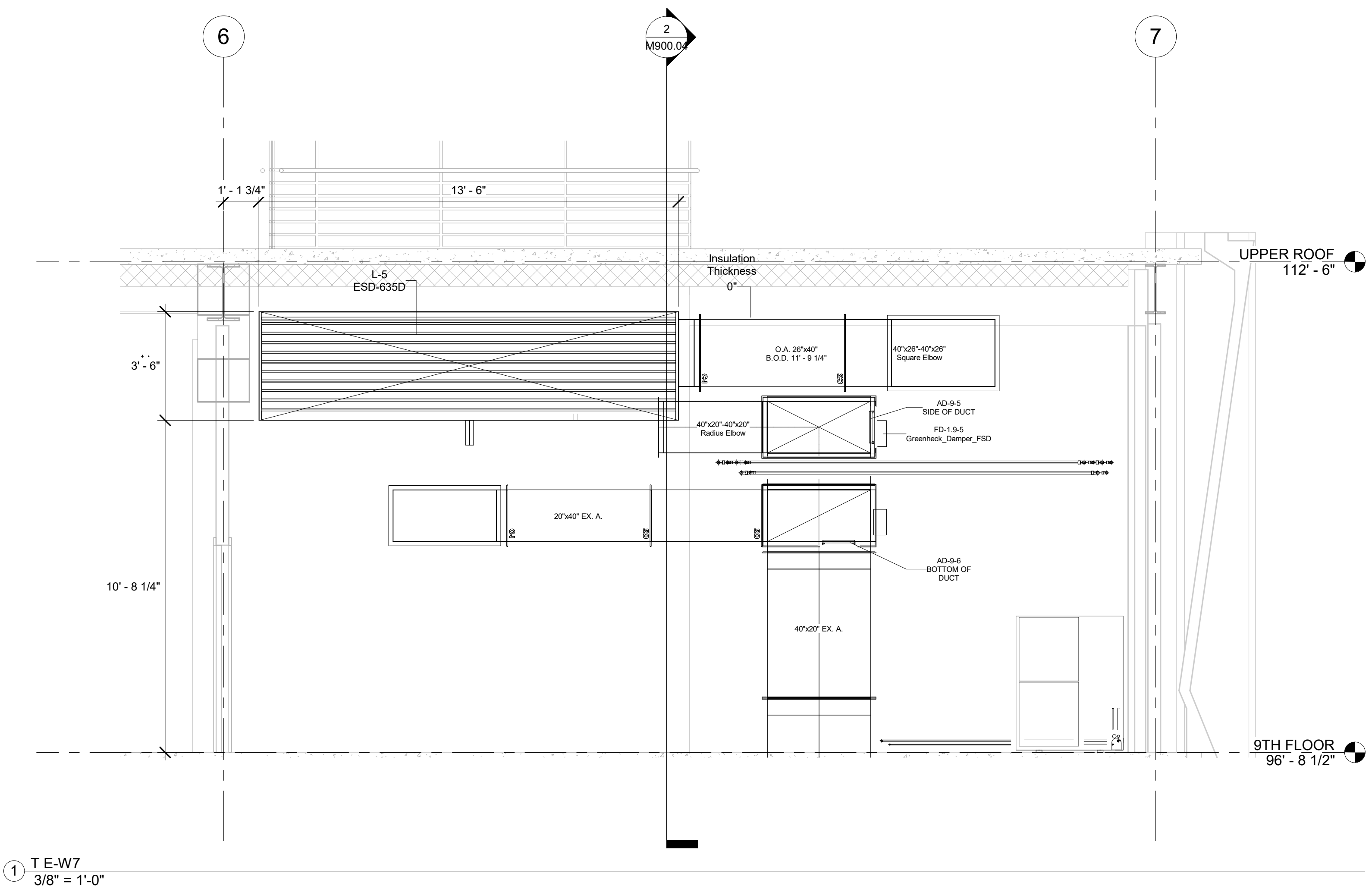
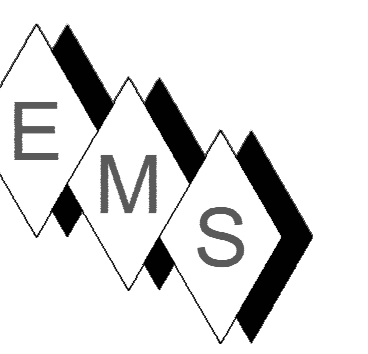
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

NINTH FLOOR SECTIONS

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M900.02



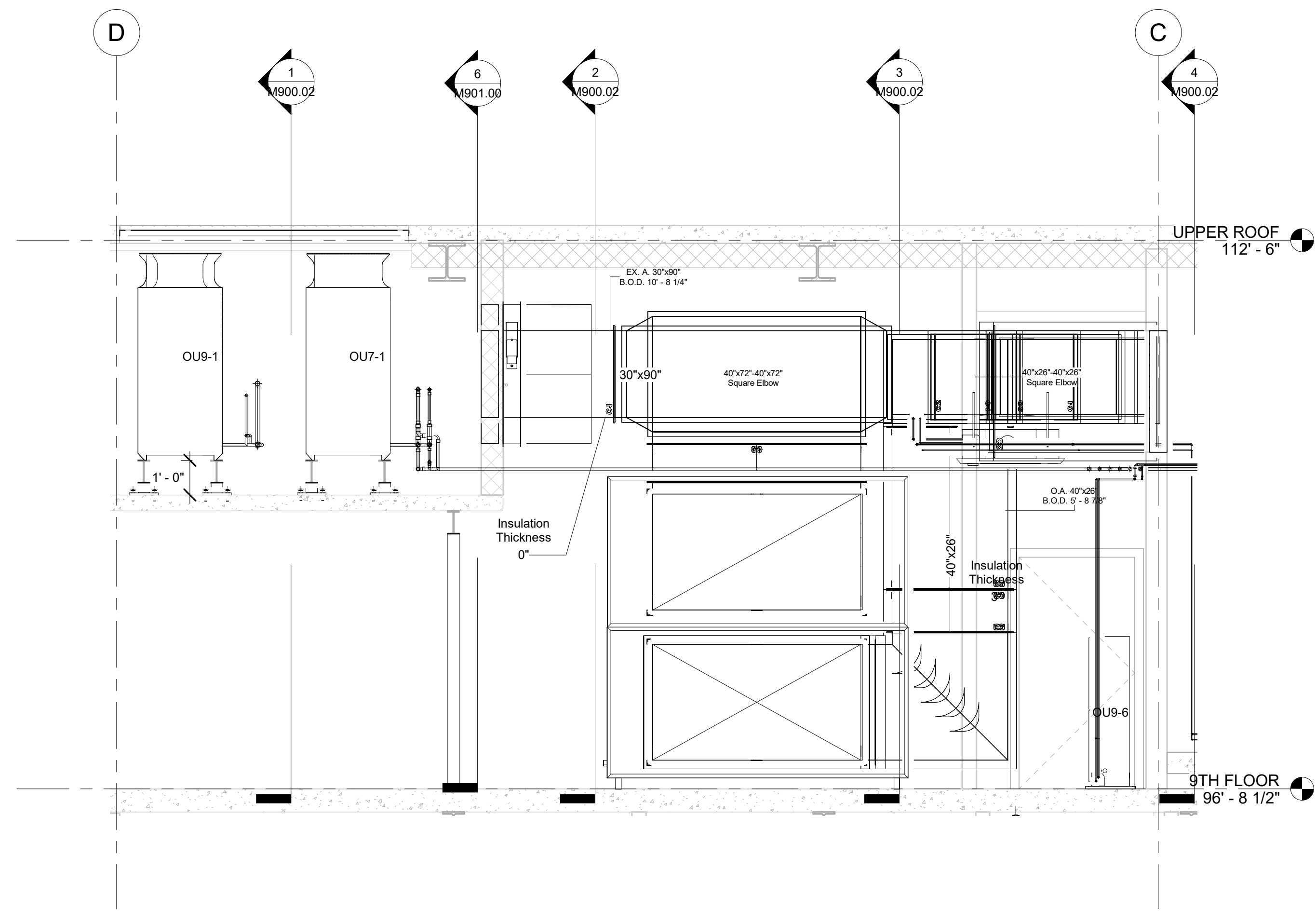
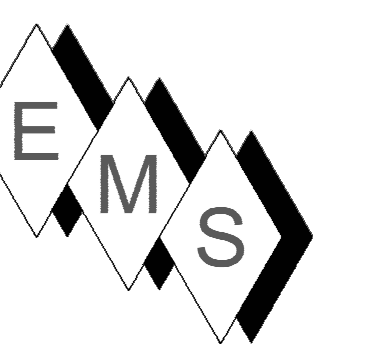
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

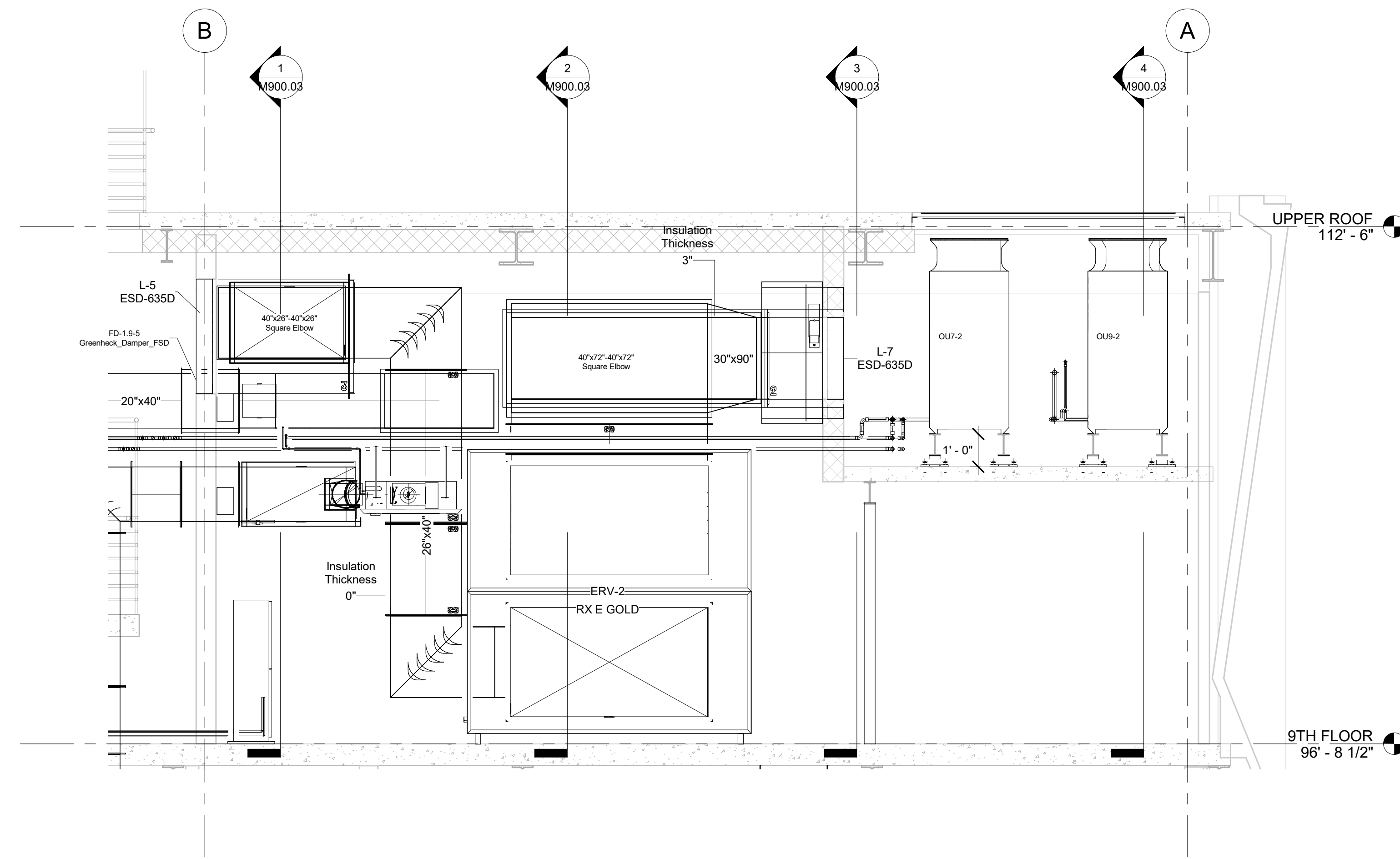
NINTH FLOOR SECTIONS

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

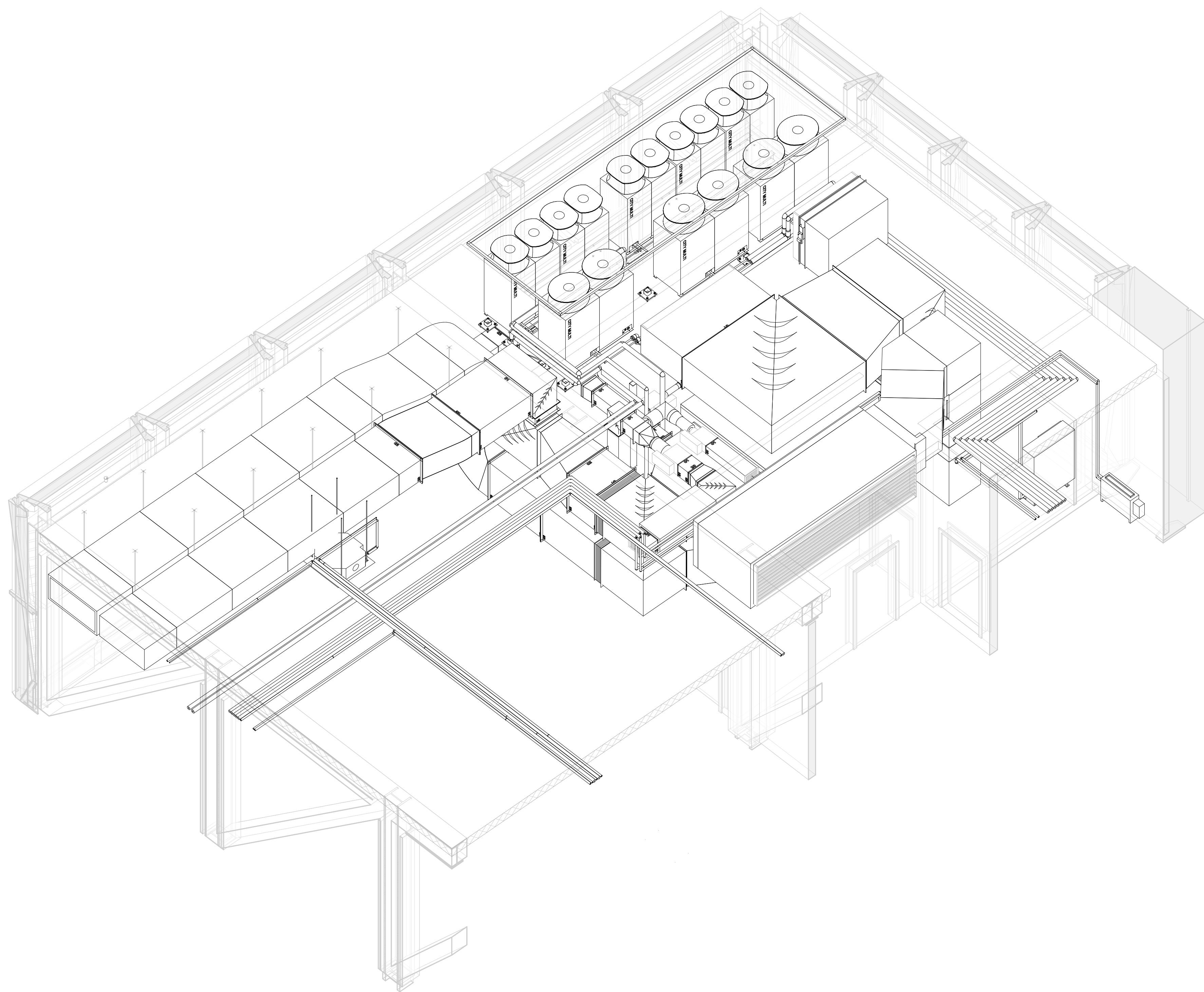
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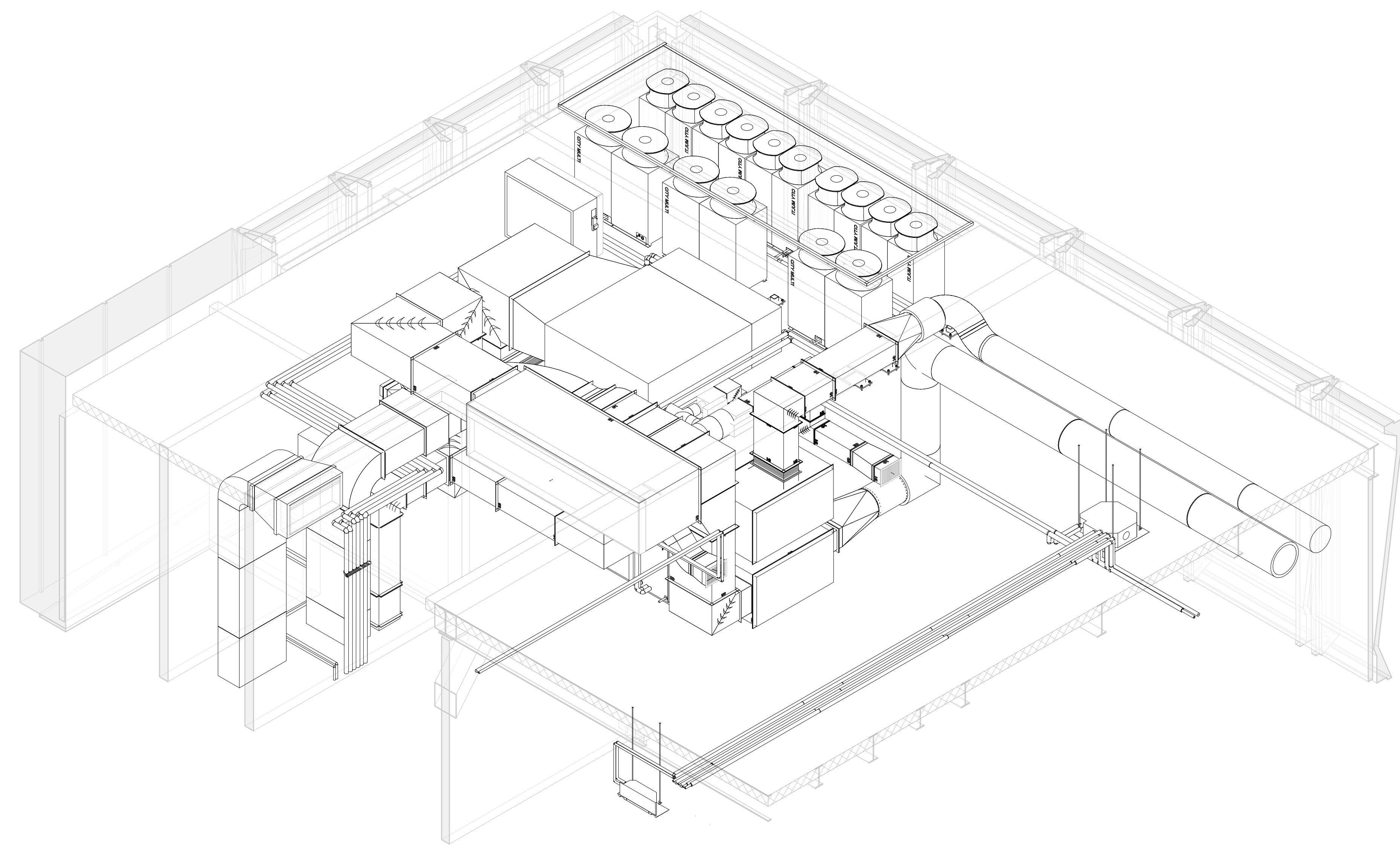
① T.N-S3
 3/8" = 1'-0"



② T.N-S4
 3/8" = 1'-0"



④ 9TH FLOOR NW CORNER MECH ROOM



③ 9TH FLOOR NE CORNER MECH ROOM

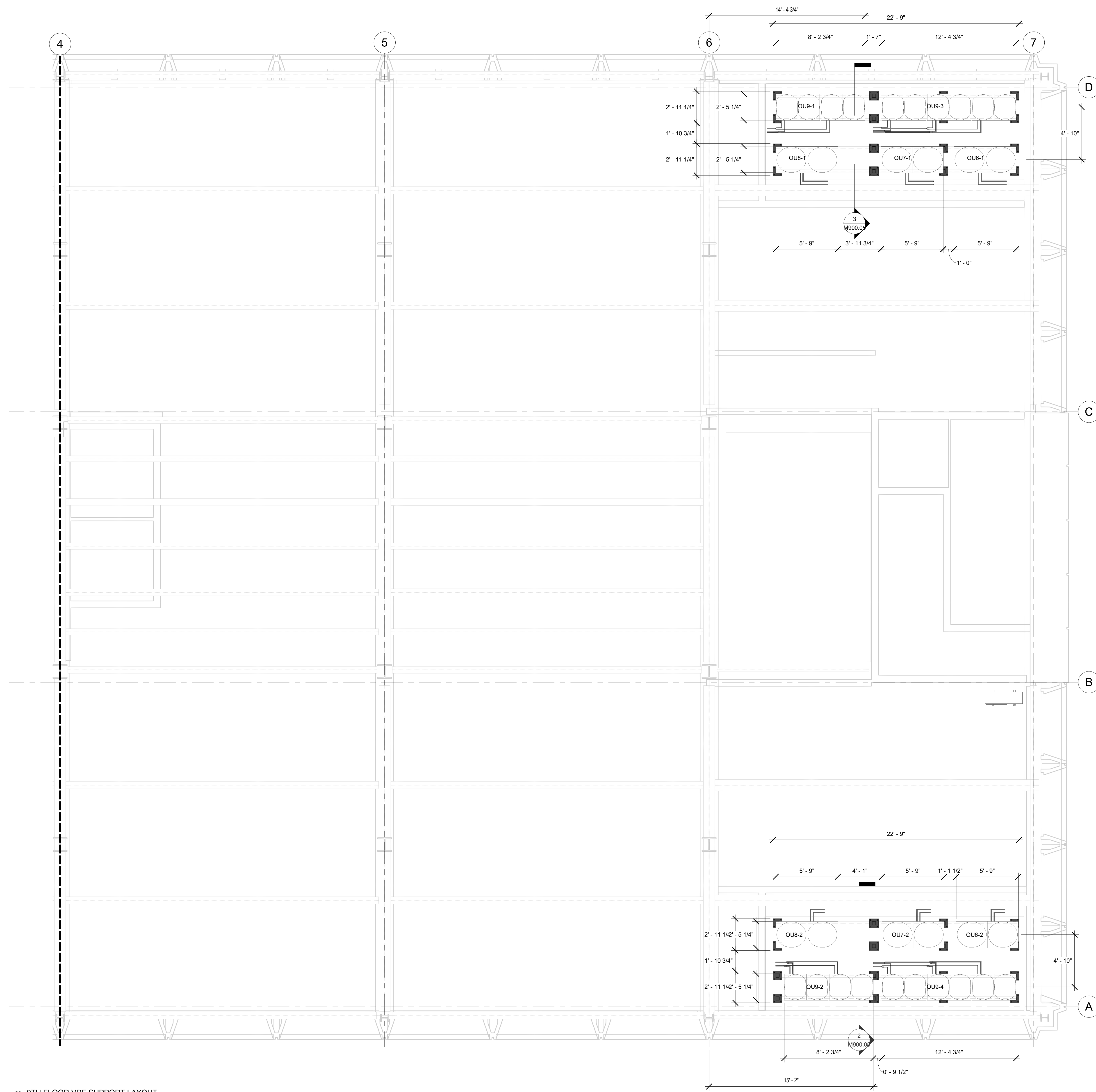
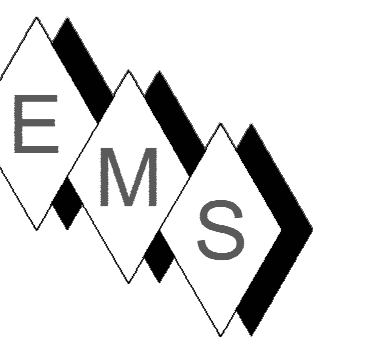
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

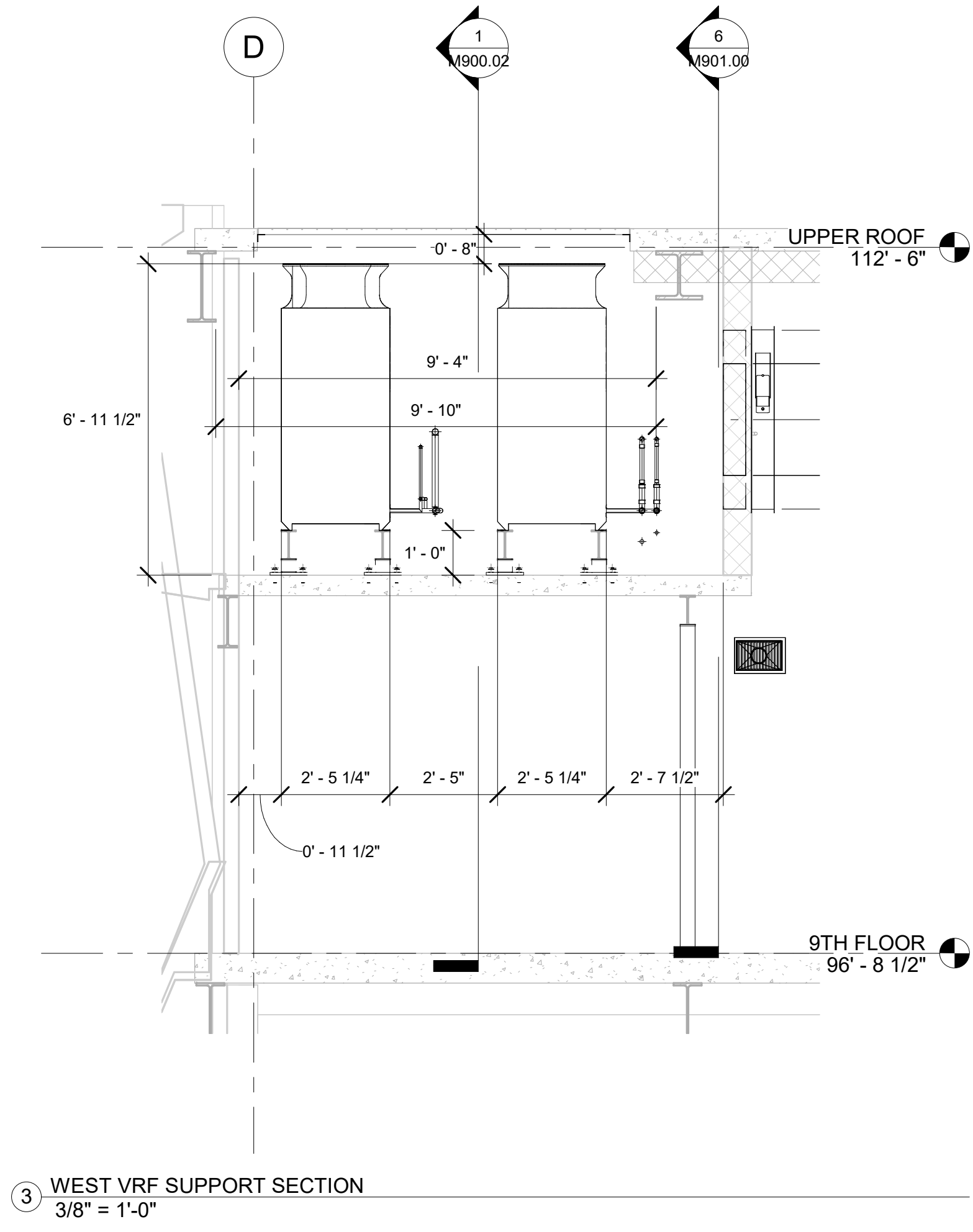
NINTH FLR SECTIONS ISO
 MECH

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

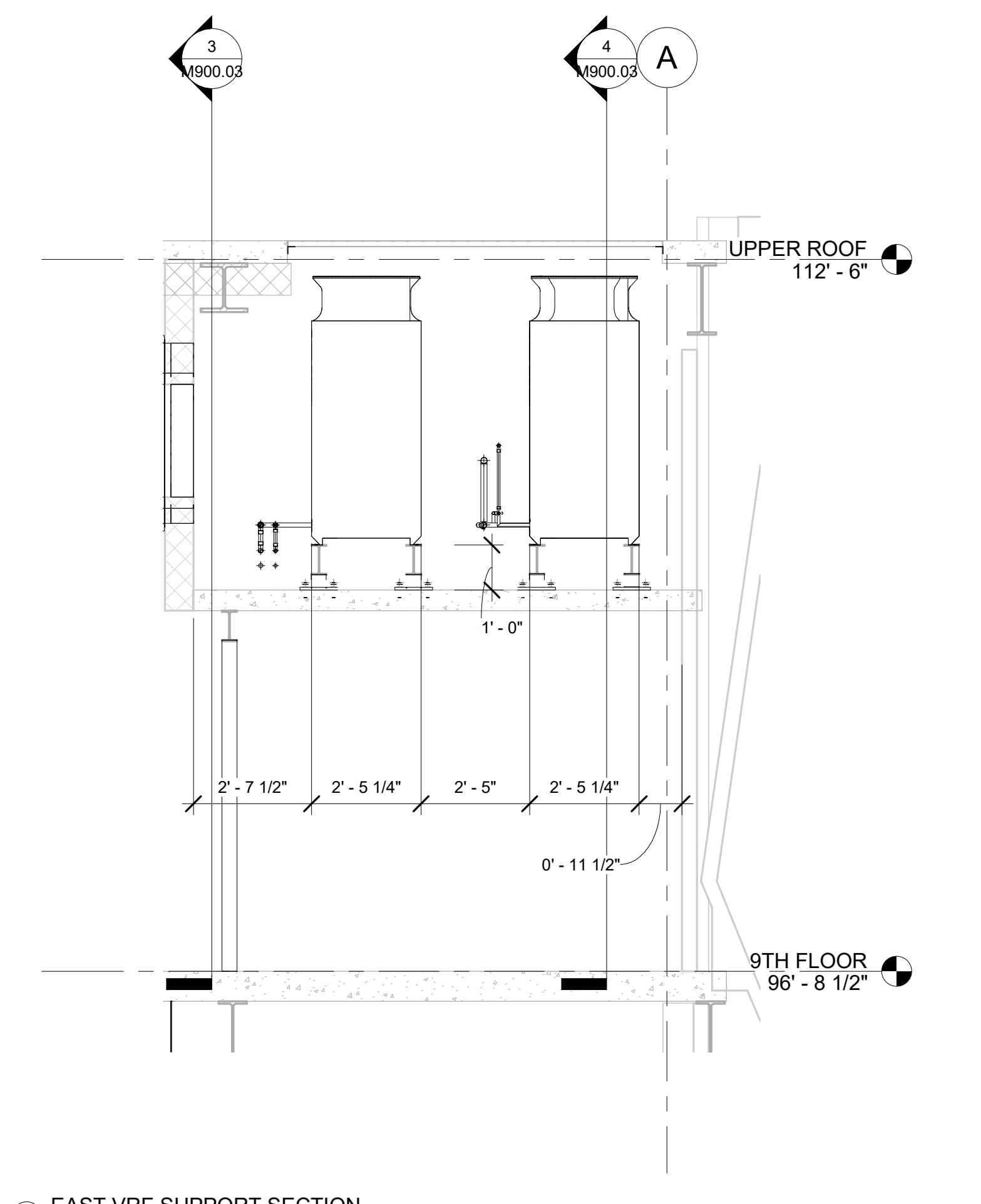
M900.04



① 9TH FLOOR VRF SUPPORT LAYOUT
 1/4" = 1'-0"



③ WEST VRF SUPPORT SECTION
 3/8" = 1'-0"



② EAST VRF SUPPORT SECTION
 3/8" = 1'-0"

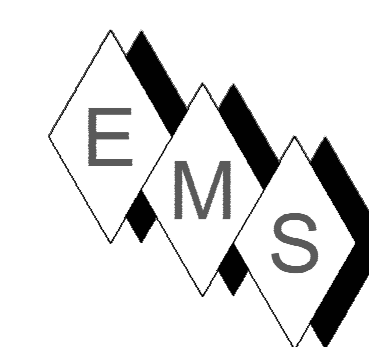
No.	Description	Date
0	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

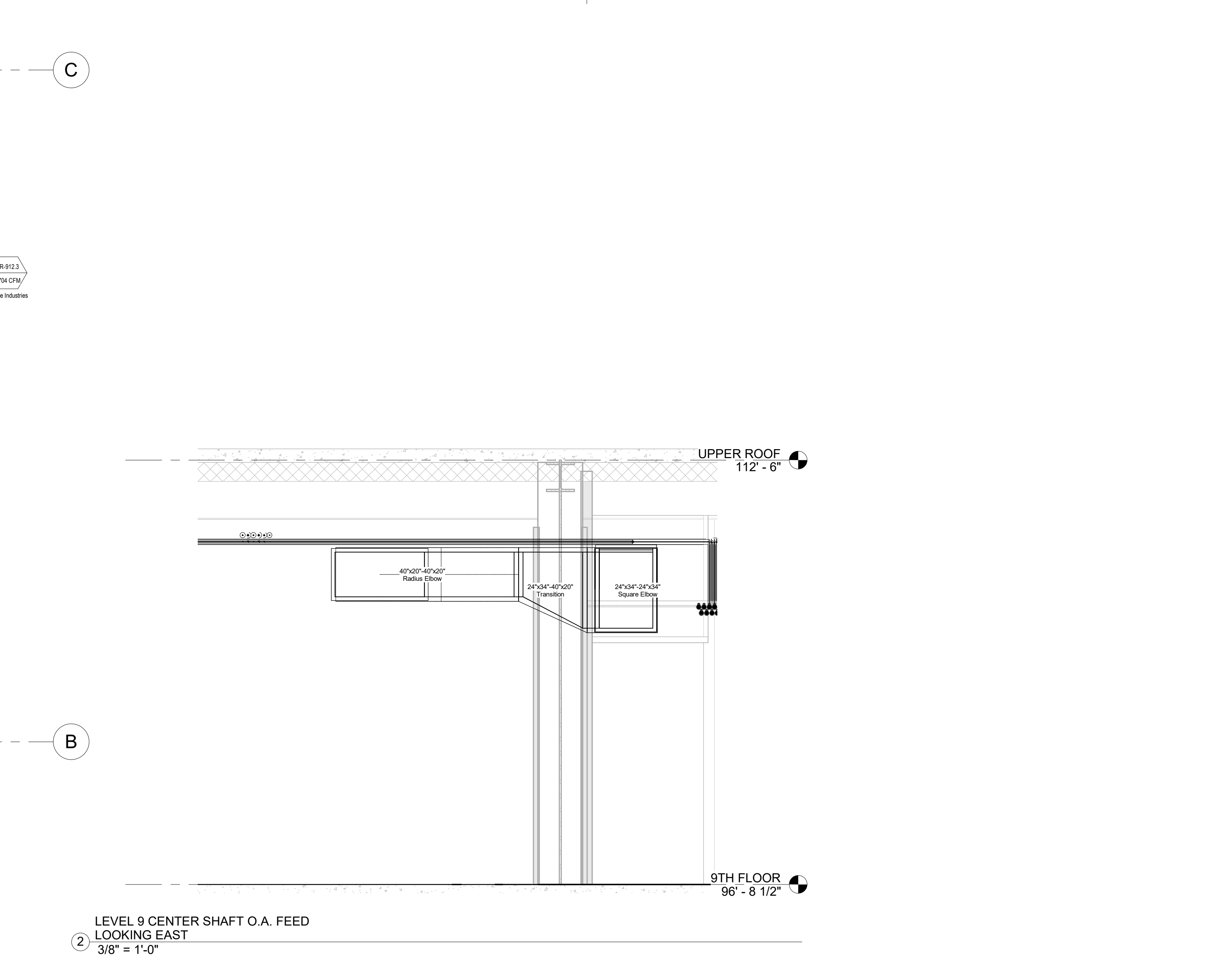
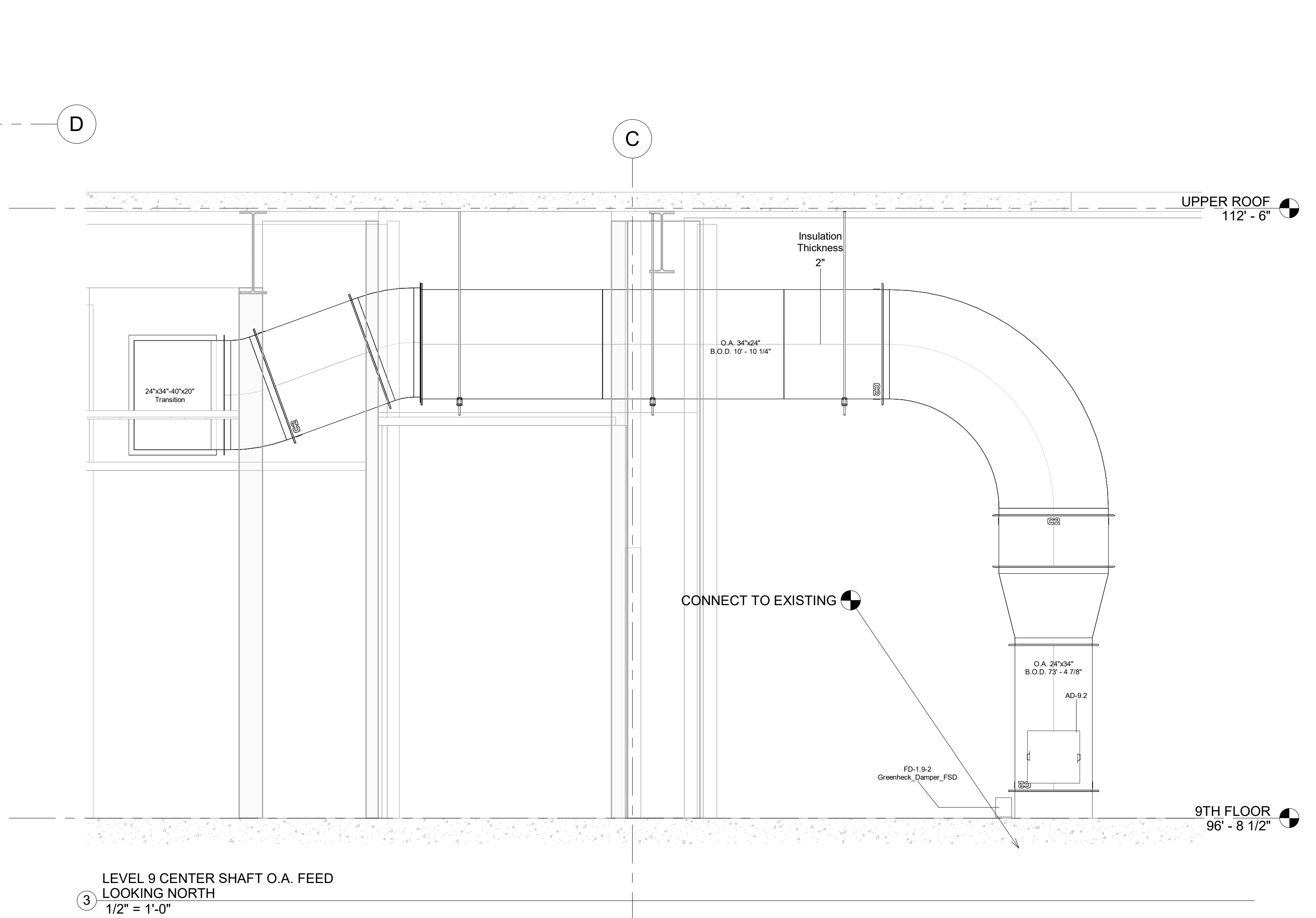
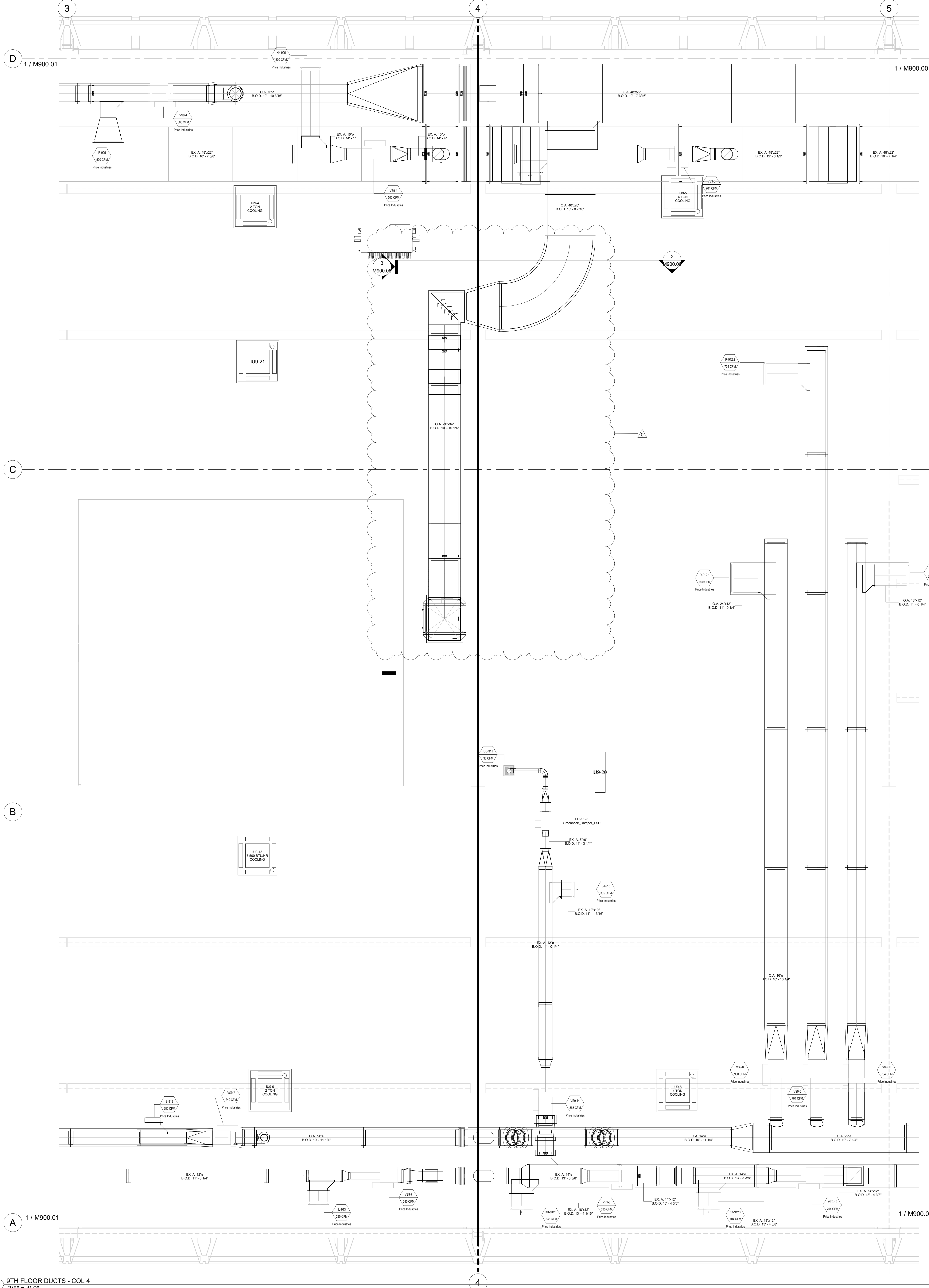
VRF SUPPORT PLAN

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

M900.05



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
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No.	Description	Date
0	Changed 9th floor center shaft duct	6/30/2021
1	AS-BUILT	8/20/2022

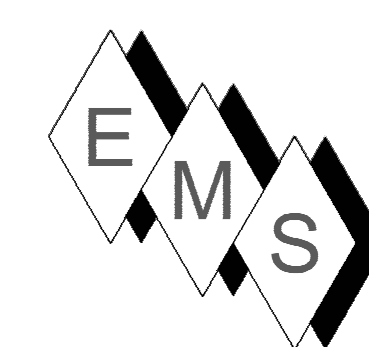
HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

NINTH FLR CENTER SECTIONS

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M900.06

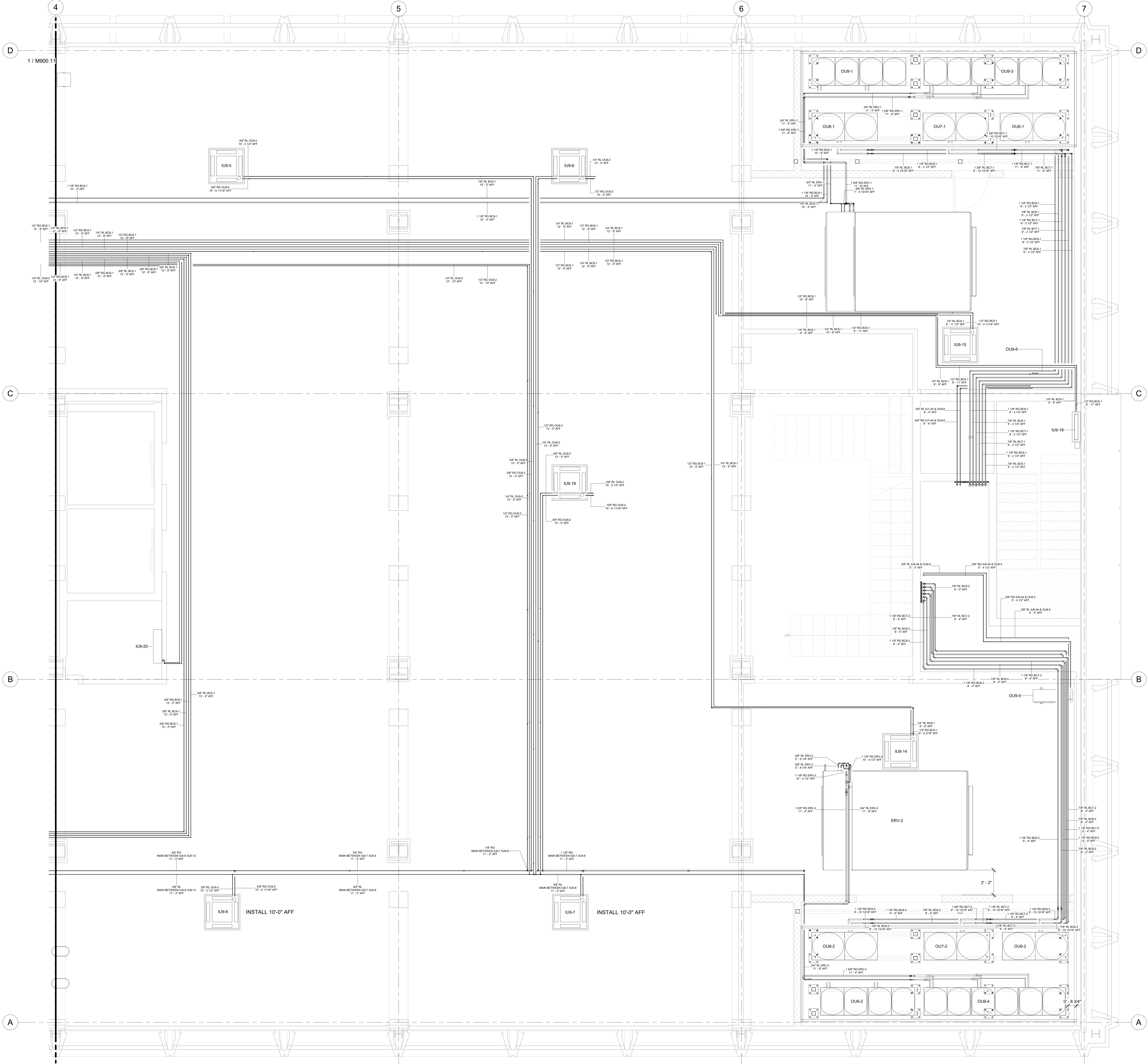
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EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
 Ph. 203.792.7668 www.emsinc.us

PLAN NORTH →

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- 1) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEING.
 - 2) 10" ROUND HETOS ARE PURCHASED FITTINGS WHICH WILL MOUNT ON 9" HIGH DUCT AND GET THE REQUIRED CFMS FOR 10" ROUND. SEE SUBMITTAL BELOW.
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 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
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 - 7) INSULATION IS NOT SHOWN TO PROVIDE DETAIL CLARITY FOR REVIEW.
 - 8) THE ERV (O.A. SUPPLY AND R.A. EXHAUST) FROM SPACE TO THE ERV DUCTS ARE INTERNALLY LINED WITH 1" RUBBER LINED FROM THE ERV TO THE FIRST ELBOW. SAID DUCTS DO NOT REQUIRE EXTERNAL DUCT WRAP. O.A. FROM INTAKE LOUVERS AND EX. A. TO EXHAUST LOUVERS ARE NOT INTERNALLY LINED.



No.	Description	Date
0	ISSUED FOR TERMINAL UNIT LOCATIONS	9/2/2021
1	UNIT MOVES LINESET MOVES	9/14/2021
2	AS-BUILT	6/20/2022

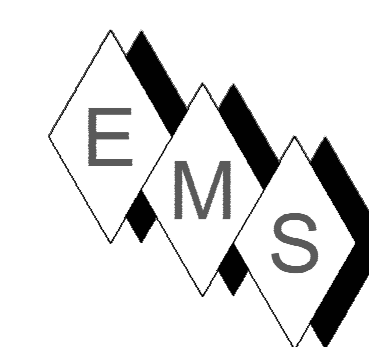
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

NINTH FLOOR NORTH REFRIG. PIPING PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

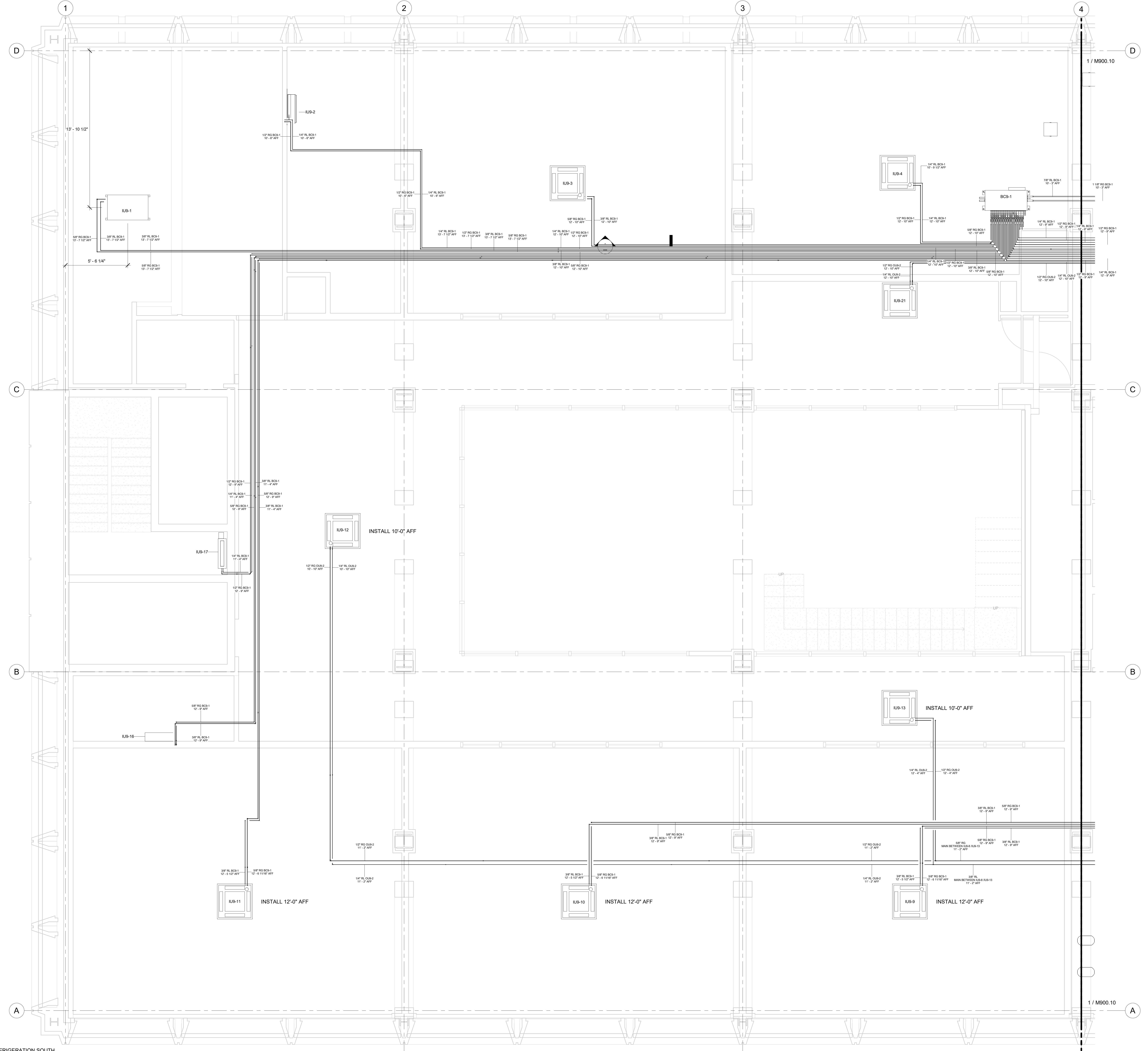
M900.10



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
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PLAN NORTH →

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 - 3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS AND SUB-CONTROLLERS TO THE INDOOR UNITS ARE INSULATED WITH 1/2" APPROVED ELASTOMERIC INSULATION PER SUBMITTAL.
 - 4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN AC211 TUBING WITH SOCKET FITTINGS. JOINING METHOD IS R2 PURGE AND BRAZED JOINTS. ALL MANS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.
 - 5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.
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No.	Description	Date
0	ISSUED FOR TERMINAL UNIT LOCATIONS	9/2/2021
1	UNIT MOVES LINESET MOVES	9/14/2021
2	AS-BUILT	6/20/2022

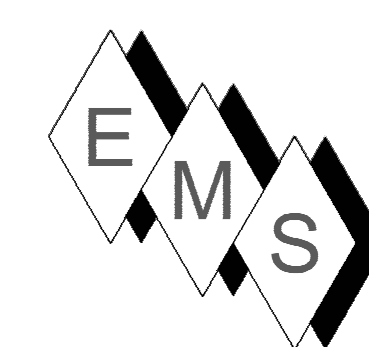
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

NINTH FLOOR SOUTH REFRIG. PIPING PART. PLAN

Project Number 5072
 Date 12/15/20
 Drawn By TH
 Checked By TH

M900.11



EASTERN MECHANICAL SERVICES
 3 Starr Street, Danbury, CT 06810
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NOTE:

1. BC9-2 WAS ELIMINATED AND A TEE SYSTEM WAS UTILIZED FOR THE FOLLOWING INDOOR UNITS FROM OUG-2:

- IUG-5
 - IUG-6
 - IUG-7
 - IUG-8
 - IUG-12
 - IUG-13
 - IUG-19
 - IUG-21
- SEE MITSUBISHI DIAMOND SYSTEM BUILDER DATA INCLUDED IN THE O&M MANUAL FOR THIS PROJECT.

LEVEL 9 ERV-1 TO OUG-3 MAINS			
DESCRIPTION	DIAMETER	LENGTH	ERV UNIT
OUG-3 GAS LINE	1 1/8"	2' - 11 7/16"	ERV-1
OUG-3 GAS LINE	1 5/8"	33' - 8 3/16"	ERV-1
OUG-3 LIQUID LINE	5/8"	4' - 4 15/16"	ERV-1
OUG-3 LIQUID LINE	3/4"	32' - 3 1/4"	ERV-1
Grand total:	28	73' - 3 7/8"	

LEVEL 9 ERV-2 TO OUG-4 MAINS			
DESCRIPTION	DIAMETER	LENGTH	ERV UNIT
OUG-4 GAS LINE	1 1/8"	20' - 9 13/16"	ERV-2
OUG-4 GAS LINE	1 5/8"	31' - 10 3/8"	ERV-2
OUG-4 LIQUID LINE	5/8"	21' - 4 1/16"	ERV-2
OUG-4 LIQUID LINE	3/4"	33' - 6 1/8"	ERV-2
Grand total:	33	107' - 6 3/8"	

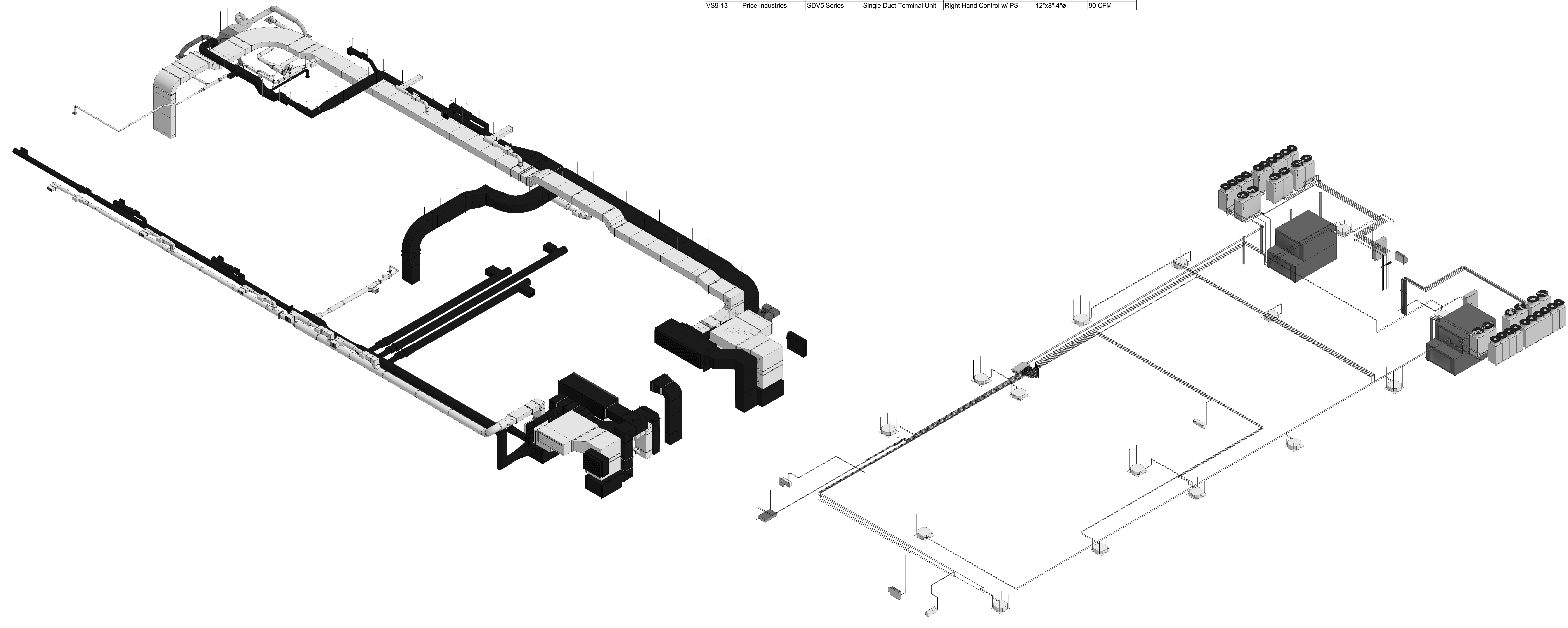
LEVEL 9 RGD SCHEDULE		
Mark	Manufacturer	CFMs
D-901A	Price Industries	40.00 CFM
DD-901A	Price Industries	30.00 CFM
DD-903	Price Industries	80.00 CFM
DD-907	Price Industries	90.00 CFM
DD-911	Price Industries	30.00 CFM
DD-916	Price Industries	20.00 CFM
GG-902	Price Industries	285.00 CFM
GG-901	Price Industries	280.00 CFM
GG-902	Price Industries	280.00 CFM
H-902	Price Industries	285.00 CFM
HH-901	Price Industries	425.00 CFM
IJ-901	Price Industries	425.00 CFM
JJ-904	Price Industries	270 CFM
JJ-913	Price Industries	280.00 CFM
JJ-914	Price Industries	280.00 CFM
JJ-915	Price Industries	280.00 CFM
JJ-918	Price Industries	335.00 CFM
KK-905	Price Industries	500 CFM
KK-912	Price Industries	704.00 CFM
KK-912.1	Price Industries	535.00 CFM
KK-912.2	Price Industries	704.00 CFM
KK-912.3	Price Industries	704.00 CFM
M-907	Price Industries	90.00 CFM
R-905	Price Industries	500.00 CFM
R-912.1	Price Industries	900.00 CFM
R-912.2	Price Industries	704.00 CFM
R-912.3	Price Industries	704.00 CFM
R-912.4	Price Industries	704.00 CFM
R-912.6	Price Industries	704.00 CFM
S-904	Price Industries	270.00 CFM
S-913	Price Industries	280.00 CFM
S-914	Price Industries	280.00 CFM
S-915	Price Industries	280.00 CFM
S-919	Price Industries	260.00 CFM
Grand total:	34	

LEVEL 9 MITSUBISHI EQUIPMENT SCHEDULE					
Mark	Manufacturer	Model	COOLING TONNAGE	Description	
IUG-1	Mitsubishi Electric	PEFY-P24NMSU-ER2	2 TON COOLING	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner	
IUG-2	Mitsubishi Electric	PKFY-P08NLMU-E	7,500 BTU/HR COOLING	Mitsubishi Electric 8000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IUG-3	Mitsubishi Electric	PLFY-EP24NEMU-E	2 TON COOLING	Mitsubishi Electric 24000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner	
IUG-4	Mitsubishi Electric	PLFY-EP24NEMU-E	2 TON COOLING	Mitsubishi Electric 24000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner	
IUG-5	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-6	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-7	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-8	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-9	Mitsubishi Electric	PLFY-EP36NEMU-E	2 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-10	Mitsubishi Electric	PLFY-EP36NEMU-E	2 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-11	Mitsubishi Electric	PLFY-EP36NEMU-E	3 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-12	Mitsubishi Electric	PLFY-EP36NEMU-E	3 TON COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-13	Mitsubishi Electric	PLFY-EP36NEMU-E	7,500 BTU/HR COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	
IUG-14	Mitsubishi Electric	PLFY-EP18NEMU-E	1.5 TON COOLING	Mitsubishi Electric 18000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner	
IUG-15	Mitsubishi Electric	PLFY-EP24NEMU-E	19,000 BTU/HR COOLING	Mitsubishi Electric 24000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner	
IUG-16	Mitsubishi Electric	PKFY-P12NRMU-E2	1 TON COOLING	Mitsubishi Electric 12000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IUG-17	Mitsubishi Electric	PFFY-P12NRMU-E	1 TON COOLING	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IUG-18	Mitsubishi Electric	PFFY-P12NRMU-E	1 TON COOLING	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner	
IUG-19	Mitsubishi Electric	PLFY-EP30NEMU-E	2.5 TON COOLING	Mitsubishi Electric 30000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner	
IUG-20	Mitsubishi Electric	PKFY-P12NEMU-E2	1 TON COOLING	Mitsubishi Electric 12000 Btu/h, Wall Mounted, PKFY Series Air Conditioner	
IUG-21	Mitsubishi Electric	PLFY-EP36NEMU-E	7,500 BTU/HR COOLING	Mitsubishi Electric 36000 Btu/h, Ceiling Recessed, Delux Model, 4-Way, PLFY Series Air Conditioner	

LEVEL 9 BC9-1 TO OUG-1 MAINS			
DESCRIPTION	DIAMETER	LENGTH	BC-CONTROLLER
OUG-1 GAS LINE	1 1/8"	82' - 7 3/16"	BC9-1
OUG-1 LIQUID LINE	7/8"	82' - 0 5/8"	BC9-1
Grand total:	8	164' - 7 13/16"	

LEVEL 9 BC9-1 REFRIGERATION PIPING			
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
BC9-1	IUG-1 GAS LINE	5/8"	94' - 2 11/16"
BC9-1	IUG-1 LIQUID LINE	3/8"	92' - 9 3/8"
BC9-1	IUG-2 GAS LINE	1/2"	86' - 6 3/8"
BC9-1	IUG-2 LIQUID LINE	1/4"	86' - 3 1/16"
BC9-1	IUG-3 GAS LINE	5/8"	47' - 3 13/16"
BC9-1	IUG-3 LIQUID LINE	3/8"	47' - 5 7/8"
BC9-1	IUG-4 GAS LINE	1/2"	7' - 7 1/4"
BC9-1	IUG-4 LIQUID LINE	1/4"	8' - 0"
BC9-1	IUG-9 GAS LINE	5/8"	104' - 4 7/8"
BC9-1	IUG-9 LIQUID LINE	3/8"	105' - 6 5/8"
BC9-1	IUG-10 GAS LINE	5/8"	110' - 2 3/16"
BC9-1	IUG-10 LIQUID LINE	3/8"	133' - 9 11/16"
BC9-1	IUG-11 GAS LINE	5/8"	127' - 11 1/2"
BC9-1	IUG-11 LIQUID LINE	3/8"	131' - 9 7/16"
BC9-1	IUG-14 GAS LINE	1/2"	132' - 8 7/16"
BC9-1	IUG-14 LIQUID LINE	1/4"	132' - 8 3/8"
BC9-1	IUG-15 GAS LINE	1/2"	99' - 9 3/4"
BC9-1	IUG-15 LIQUID LINE	1/4"	99' - 9 5/8"
BC9-1	IUG-16 GAS LINE	5/8"	127' - 0 15/16"
BC9-1	IUG-16 LIQUID LINE	3/8"	129' - 4 3/8"
BC9-1	IUG-17 GAS LINE	1/2"	113' - 3 3/4"
BC9-1	IUG-17 LIQUID LINE	1/4"	113' - 6 5/8"
BC9-1	IUG-18 GAS LINE	1/2"	124' - 1 9/16"
BC9-1	IUG-18 LIQUID LINE	1/4"	124' - 3 5/8"
BC9-1	IUG-20 GAS LINE	1/2"	65' - 8 9/16"
BC9-1	IUG-20 LIQUID LINE	1/4"	65' - 2 1/8"
Grand total:	218		2511' - 6 11/16"

LEVEL 9 VAV SCHEDULE						
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
VE9-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"e	690 CFM
VE9-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	280 CFM
VE9-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-6"e	270 CFM
VE9-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	500 CFM
VE9-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"e	704 CFM
VE9-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"e	235 CFM
VE9-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	240 CFM
VE9-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"e	535 CFM
VE9-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	704 CFM
VE9-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"e	704 CFM
VE9-11	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	704 CFM
VE9-12	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"e	90 CFM
VE9-13	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"e	90 CFM
VE9-14	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"e	365 CFM
VS9-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	690 CFM
VS9-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	280 CFM
VS9-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	270 CFM
VS9-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	500 CFM
VS9-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	704 CFM
VS9-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	235 CFM
VS9-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"e	240 CFM
VS9-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	900 CFM
VS9-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"e	704 CFM
VS9-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"e	704 CFM
VS9-11	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"e	704 CFM
VS9-12	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-4"e	90 CFM
VS9-13	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-4"e	90 CFM



1 9TH FLOOR DUCTS

2 9TH FLOOR REFRIGERATION

No.	Description	Date
0	Duct changes due to incorrect steel elev	8/25/2021
1	AS-BUILT	8/20/2022

HOTEL MARCELL BY HILTON
 PIRELLI HOTEL

ISO VIEWS & SCHEDULES

Project Number	5072
Date	12/15/20
Drawn By	TH
Checked By	TH

M900.20