

PLAN NORTH ---

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" 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.

4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

PER SUBMITTAL DATA.

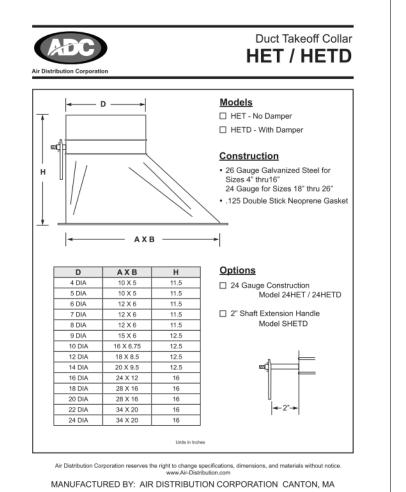
5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUB-CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.

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) COVD MECHANISMS TO BE INSTALLED ON ALL INACCESSIBLE

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No.	Description	Date
0	1ST FLOOR FORMAL	8/9/2021
1	SHOP DWG. ISSUE AS-BUILT	6/20/2022

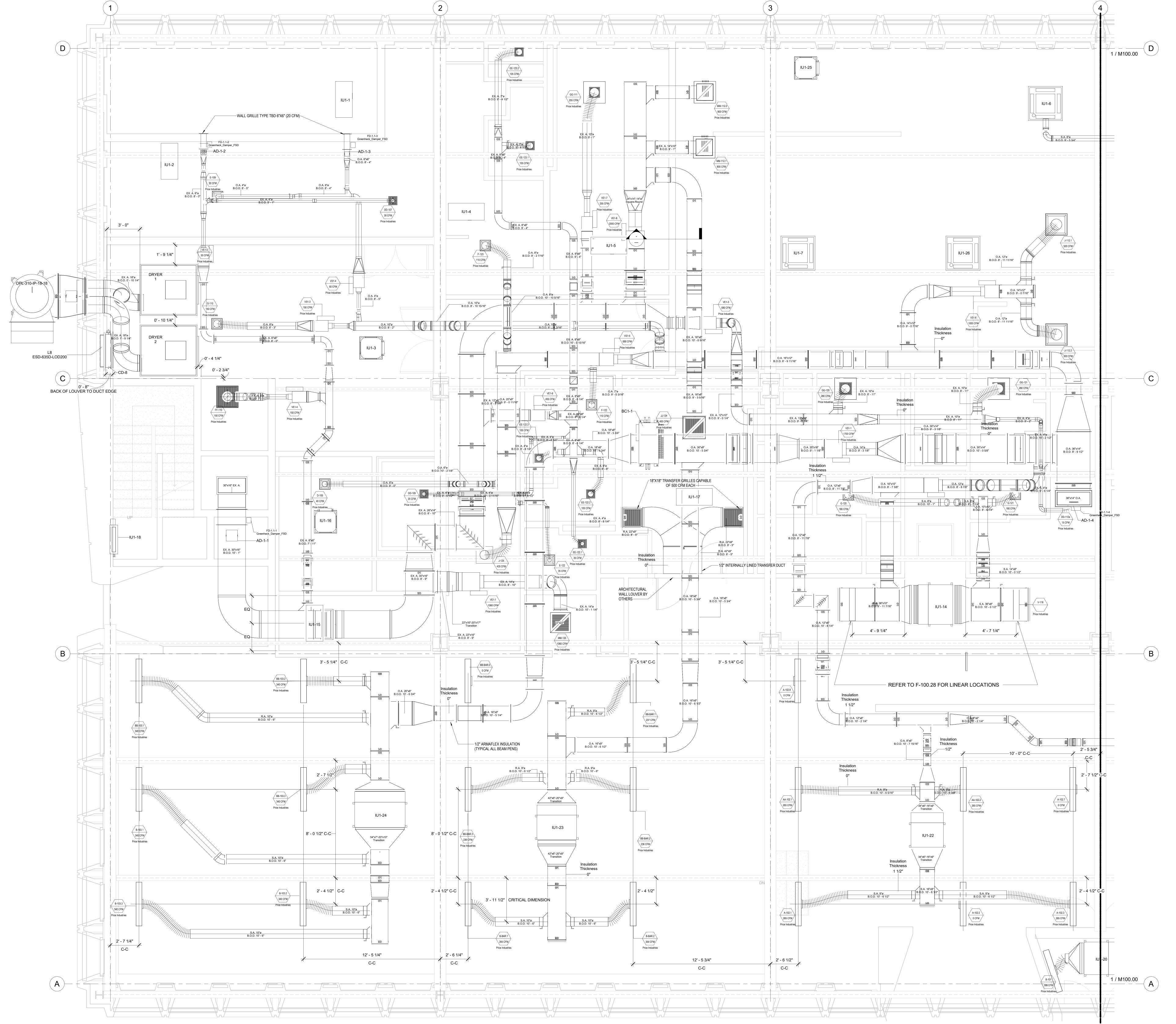
HOTEL MARCELL BY HILTON

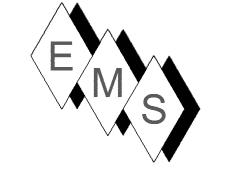
PIRELLI HOTEL

FIRST FLOOR NORTH HVAC PART. PLAN

5072
12/15/20
TH
TH

M100.00





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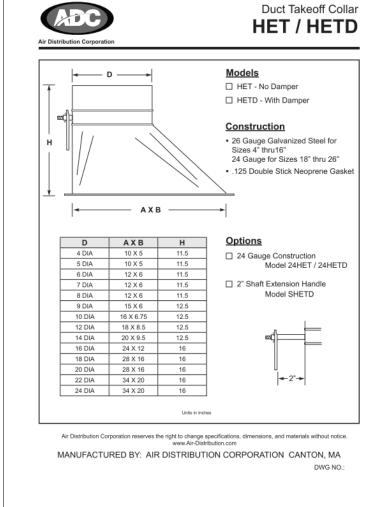
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Duct Takeoff Collar HET / HETD

Models



No.	Description	Date
0	1ST FLOOR FORMAL	8/9/2021
	SHOP DWG. ISSUE	5/5/2521
1	DIMENSION LINEAR	10/12/2021
	DIFFUSERS	
2	AS-BUILT	6/20/2022

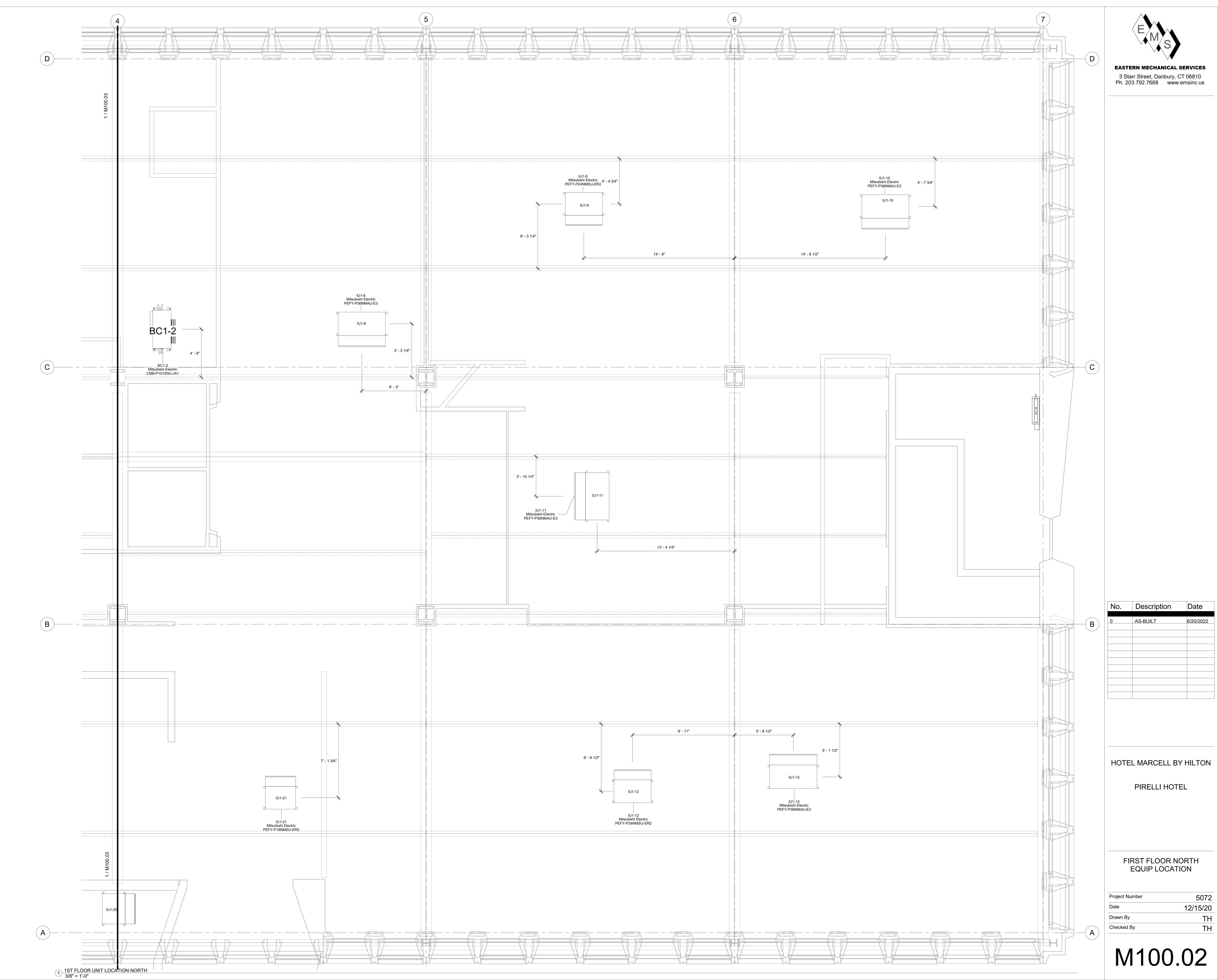
HOTEL MARCELL BY HILTON

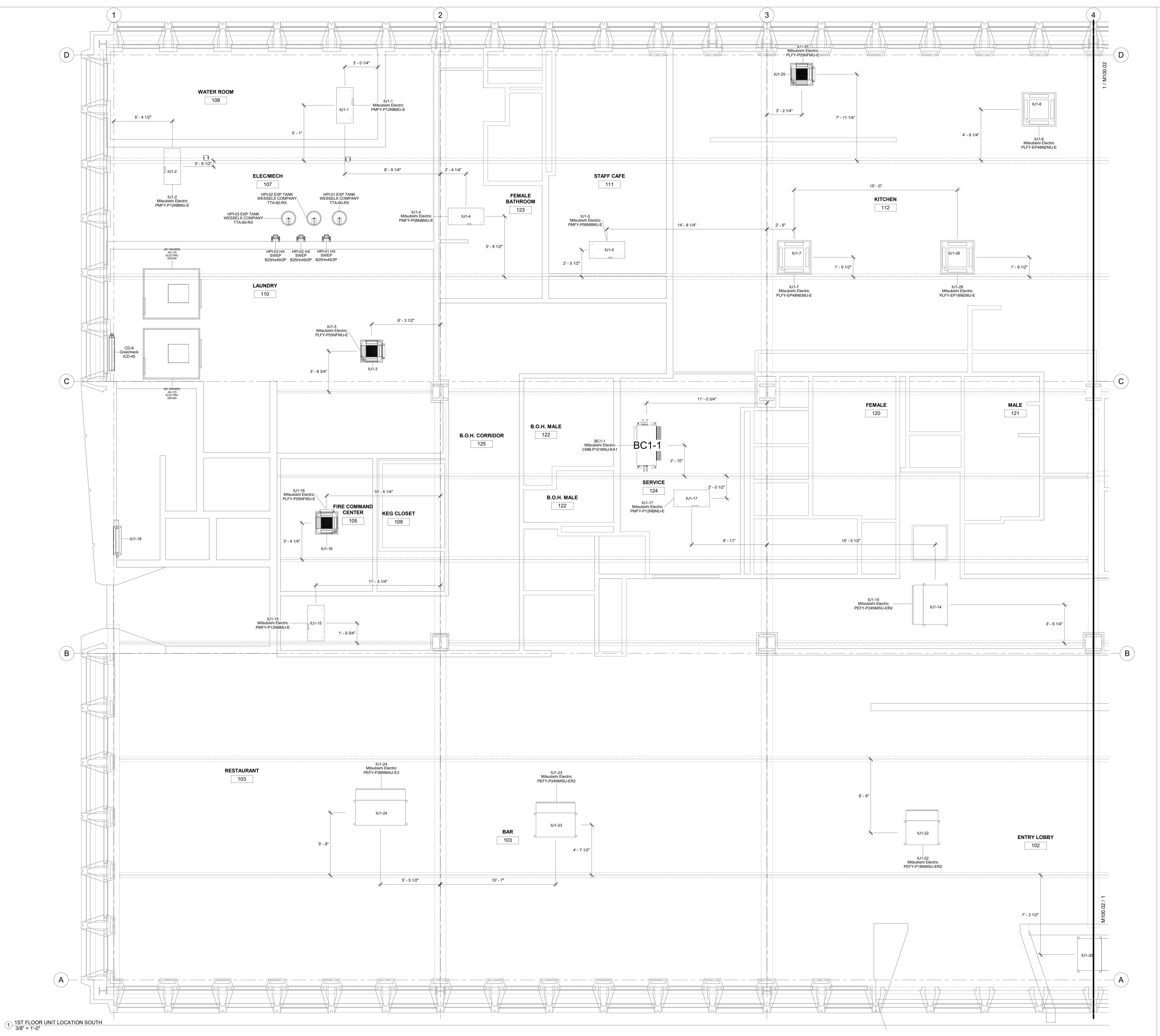
PIRELLI HOTEL

FIRST FLOOR SOUTH HVAC PART. PLAN

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

1100.01







No. Description Date

O AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIRST FLOOR SOUTH EQUIP LOCATION

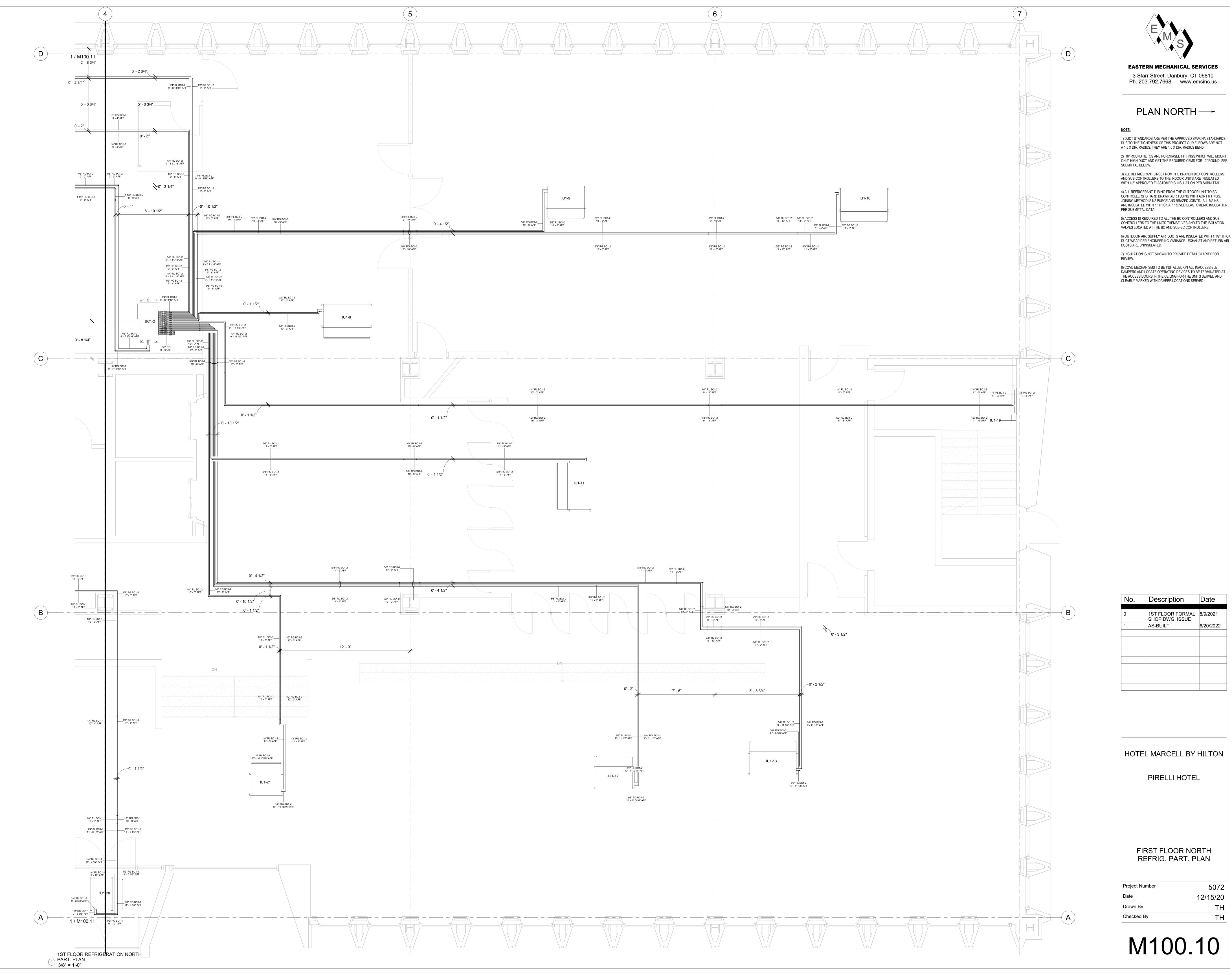
Project Number 5072

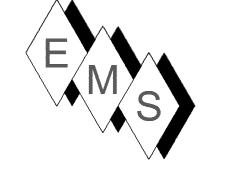
Date 12/15/20

Drawn By TH

Checked By TH

M100.03





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

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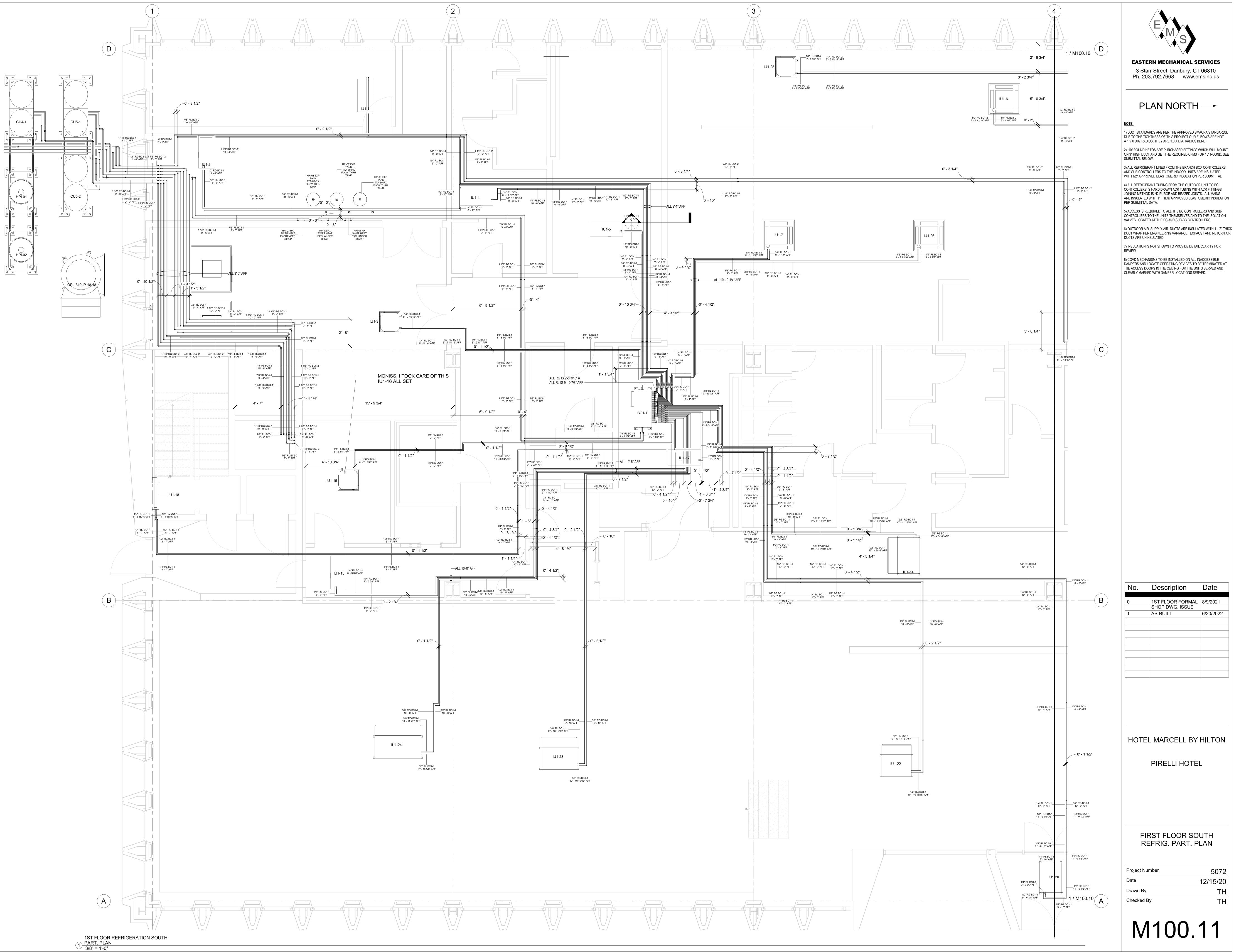
No. Description 1ST FLOOR FORMAL 8/9/2021 SHOP DWG. ISSUE AS-BUILT

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIRST FLOOR NORTH REFRIG. PART. PLAN

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



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Description

AS-BUILT

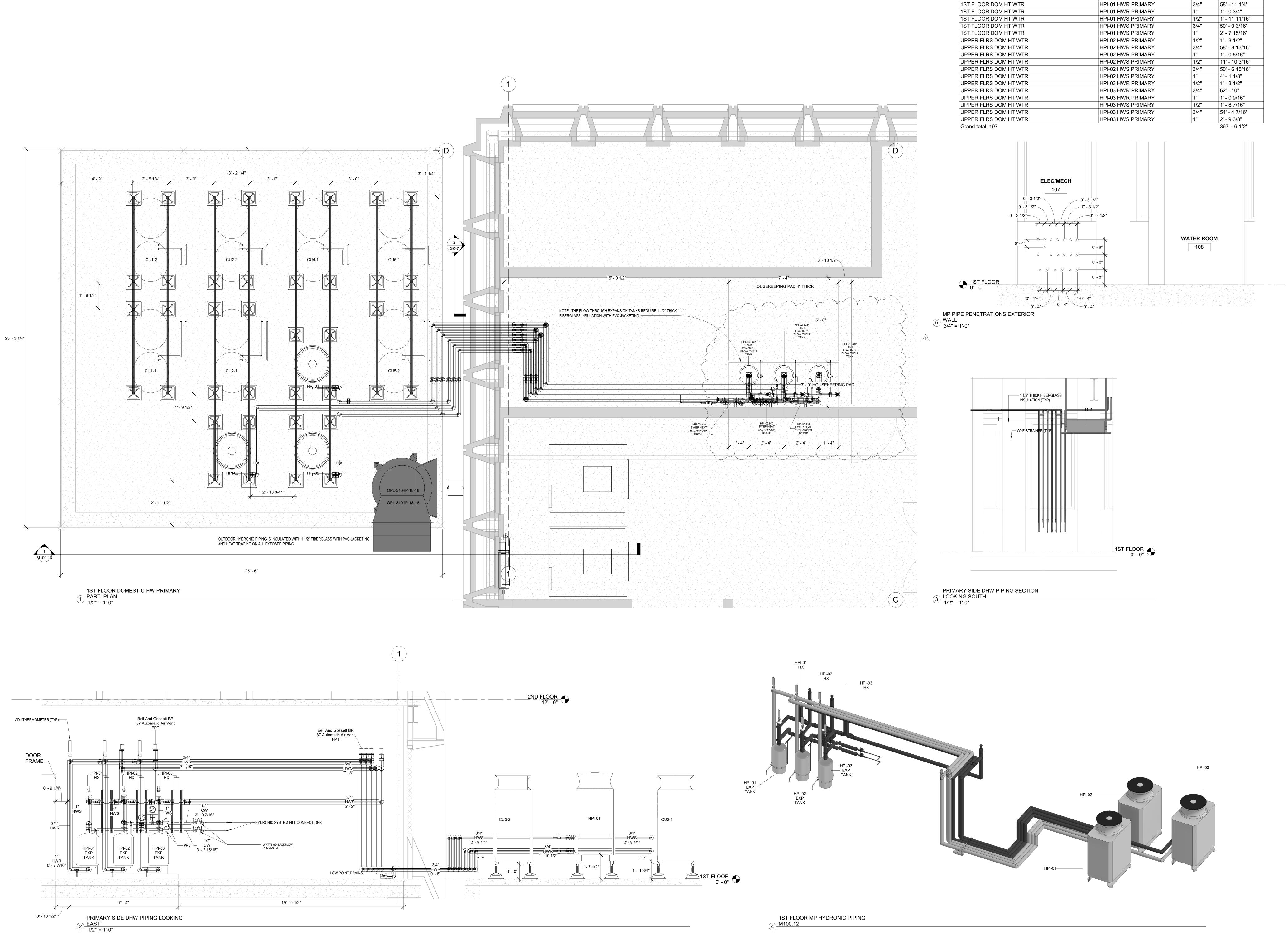
1ST FLOOR FORMAL 8/9/2021 SHOP DWG. ISSUE

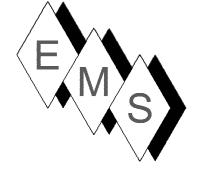
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIRST FLOOR SOUTH REFRIG. PART. PLAN

5072 12/15/20 Checked By





Length

Diameter

1/2" 1' - 3 1/2"

LEVEL 1 HYDRONIC PRIMARY PIPING

Description

HPI-01 HWR PRIMARY

SYSTEM SERVED

1ST FLOOR DOM HT WTR

1) PIPING EXPOSED TO OUTSIDE AMBIENT TEMPERATURES WILL BE HEAT TRACED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2) OUTDOOR UNIT BOTTOM HEIGHT ABOVE PAD TO BE A MINIUMUM OF12" ABOVE PAD.

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

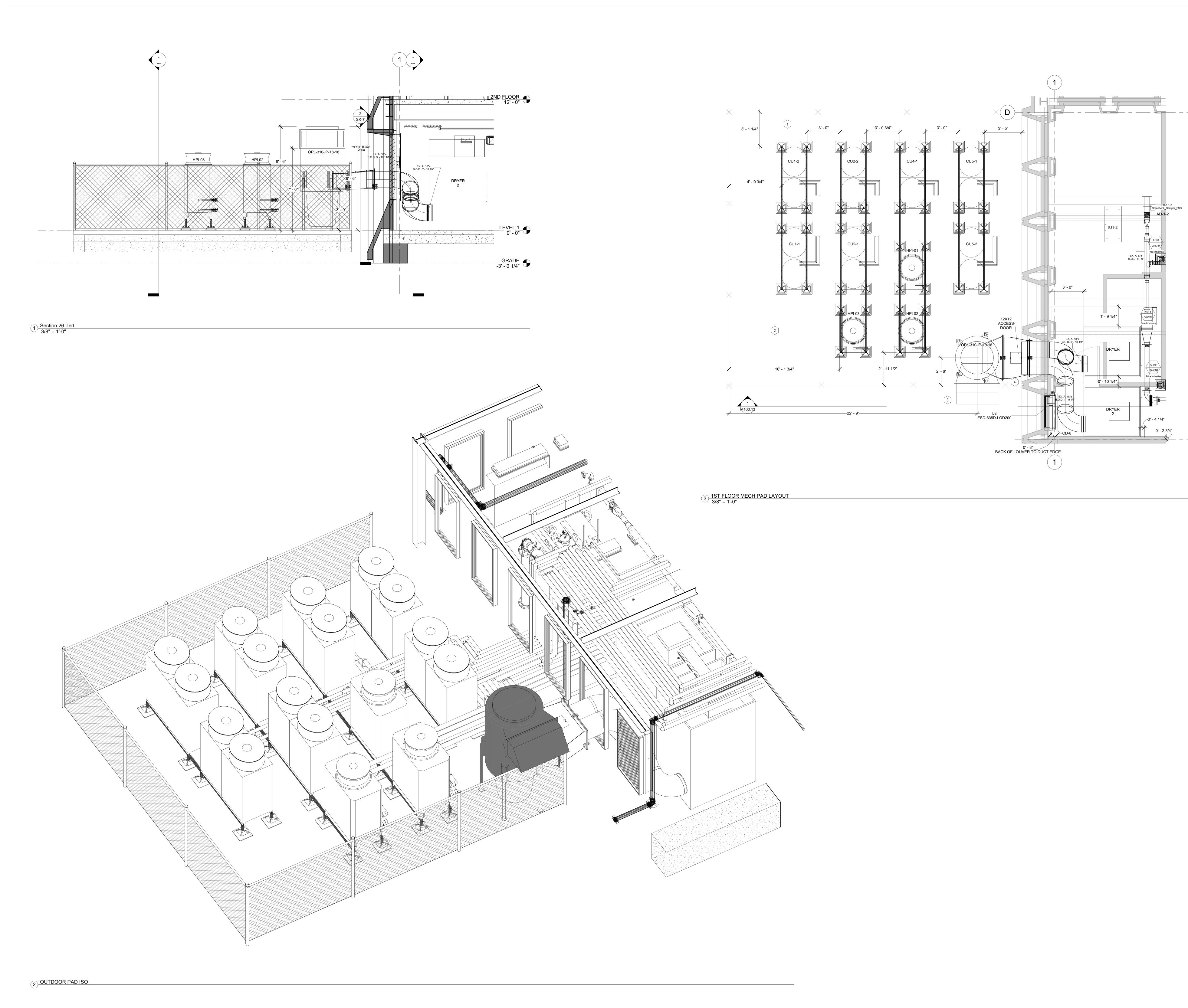
HOTEL MARCELL BY HILTON

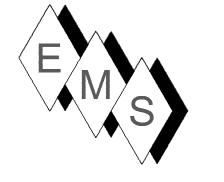
PIRELLI HOTEL

FIRST FLOOR DHW PRIMARY PART. PLAN

12/15/20
TH
TH

M100.12





NOTE:

MAINTAIN CLEARANCE FROM FENCE FOR ACCESS AND FOR ELECTRICAL DISCONNECT CLEARANCES PER CODE

2 AREA FOR WALK-IN COOLER EQUIP-MENT

3 DICCUADOS LINIT SU TED AVANAS ES

DISCHARGE LINT FILTER AWAY FROM VRF OUTDOOR EQUIPMENT

DRYER DUCT IS GALVANIZED SPIRAL DUCT WITH GASKETED JOINTS. EMS TO PROVIDE CUSTOM OFFSET TRANSITION TO LINT FILTER INLET CONNECTION.

Vo.	Description	Date
	REVISED PER RFI	9/25/2021
	497	0/00/0000
	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIRST FLOOR MECH PAD LAYOUT

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

LEVEL 1 BC1-1 TO OU1-1 MAINS DESCRIPTION DIAMETER LENGTH BC-CONTROLLER OU1-1 GAS LINE | 1 1/8" | 106' - 7 15/16" | BC1-1 OU1-1 LIQUID LINE 7/8"
Grand total: 24 107' - 8 13/16" BC1-1

Grand total: 24		- 4 3/4"	
L	EVEL 1 BC1-1 REFRIG	ERATION PIPI	NG
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
BC1-1	IU1-1 GAS LINE	1/2"	68' - 7"
BC1-1	IU1-1 LIQUID LINE	1/4"	69' - 4 1/8"
BC1-1	IU1-2 GAS LINE	1/2"	80' - 1 5/8"
BC1-1	IU1-2 LIQUID LINE	1/4"	79' - 2 3/8"
BC1-1	IU1-3 GAS LINE	1/2"	32' - 10 5/16'
BC1-1	IU1-3 LIQUID LINE	1/4"	32' - 6 13/16'
BC1-1	IU1-4 GAS LINE	1/2"	43' - 0 3/4"
BC1-1	IU1-4 LIQUID LINE	1/4"	43' - 10"
BC1-1	IU1-5 GAS LINE	1/2"	23' - 4 1/2"
BC1-1	IU1-5 LIQUID LINE	1/4"	23' - 11 9/16'
BC1-1	IU1-7 GAS LINE	5/8"	27' - 9 3/8"
BC1-1	IU1-7 LIQUID LINE	3/8"	28' - 4 15/16'
BC1-1	IU1-14 GAS LINE	5/8"	41' - 3 15/16'
BC1-1	IU1-14 LIQUID LINE	3/8"	41' - 7 15/16'
BC1-1	IU1-15 GAS LINE	1/2"	59' - 10 3/16'
BC1-1	IU1-15 LIQUID LINE	1/4"	60' - 7 7/16"
BC1-1	IU1-16 GAS LINE	1/2"	43' - 1 1/2"
BC1-1	IU1-16 LIQUID LINE	1/4"	43' - 8 1/8"
BC1-1	IU1-17 GAS LINE	1/2"	10' - 1 1/8"
BC1-1	IU1-17 LIQUID LINE	1/4"	10' - 2 3/8"
BC1-1	IU1-18 GAS LINE	1/2"	82' - 9 11/16'
BC1-1	IU1-18 LIQUID LINE	1/4"	84' - 7 11/16'
BC1-1	IU1-20 GAS LINE	1/2"	96' - 7 7/16"
BC1-1	IU1-20 LIQUID LINE	1/4"	96' - 8 11/16'
BC1-1	IU1-22 GAS LINE	1/2"	65' - 9 7/16"
BC1-1	IU1-22 LIQUID LINE	1/4"	65' - 9 1/4"
BC1-1	IU1-23 GAS LINE	5/8"	50' - 8 1/4"
BC1-1	IU1-23 LIQUID LINE	3/8"	51' - 2 15/16'
BC1-1	IU1-24 GAS LINE	5/8"	66' - 0 1/2"
BC1-1	IU1-24 LIQUID LINE	3/8"	67' - 1 9/16"
BC1-1	IU1-26 GAS LINE	1/2"	43' - 0 5/16"
BC1-1	IU1-26 LIQUID LINE	1/4"	43' - 8 1/16"

LEVEL 1 SUPPLY, RETURN AND FRESH AIR RGDS		
Mark	Actual Supply Air Flow	Manufacturer

Mark	LEVEL 1 SUPPLY, RETURN AND FRESH AIR RGDS		
113-TI	Mark	Actual Supply Air Flow	Manufacturer
113-TI	113-TI	0 CFM	Price Industries
113-TI			
113-TI			
113-TI			
?-114 80 CFM Price Industries ??-115.1 130 CFM Price Industries ??-115.2 130 CFM Price Industries ??-115.3 130 CFM Price Industries ??-115.4 130 CFM Price Industries A-102.5 265 CFM Price Industries AA-102.1 265 CFM Price Industries AA-102.2 265 CFM Price Industries AA-102.3 265 CFM Price Industries B-103.1 340 CFM Price Industries B-103.2 340 CFM Price Industries B-103.3 340 CFM Price Industries BB-103.1 340 CFM Price Industries BB-103.1 340 CFM Price Industries BB-103.2 340 CFM Price Industries BB-103.3 340 CFM Price Industries BB-103.1 340 CFM Price Industries BB-14.1 355 CFM Price Industries BB-14.1 355 CFM Price Industries BB-BAR.0 0 CFM Price In			
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BB-103.3 340 CFM Price Industries BB-114.1 355 CFM Price Industries BB-114.6 355 CFM Price Industries BB-BAR.0 0 CFM Price Industries BB-BAR.1 237 CFM Price Industries BB-BAR.2 236 CFM Price Industries BB-BAR.3 236 CFM Price Industries D-105 40 CFM Price Industries D-105 40 CFM Price Industries E-109 30 CFM Price Industries E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-123 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries L9 0 CFM Price Industries			
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BB-114.6 355 CFM Price Industries BB-BAR.0 0 CFM Price Industries BB-BAR.1 237 CFM Price Industries BB-BAR.2 236 CFM Price Industries BB-BAR.3 236 CFM Price Industries D-105 40 CFM Price Industries D-112A 50 CFM Price Industries E-109 30 CFM Price Industries E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-123 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries			
BB-BAR.0 0 CFM Price Industries BB-BAR.1 237 CFM Price Industries BB-BAR.2 236 CFM Price Industries BB-BAR.3 236 CFM Price Industries D-105 40 CFM Price Industries D-112A 50 CFM Price Industries E-109 30 CFM Price Industries E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-122 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.03 204 CFM Price Industries			
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BB-BAR.2 236 CFM Price Industries BB-BAR.3 236 CFM Price Industries D-105 40 CFM Price Industries D-112A 50 CFM Price Industries E-109 30 CFM Price Industries E-109 35 CFM Price Industries E-122 35 CFM Price Industries F-123 110 CFM Price Industries G-120 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries			Price Industries
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D-105 40 CFM Price Industries D-112A 50 CFM Price Industries E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries L9 0 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.05 204 CFM Price Industries	BB-BAR.2	236 CFM	Price Industries
D-112A 50 CFM Price Industries E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-122 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	BB-BAR.3	236 CFM	Price Industries
E-109 30 CFM Price Industries E-122 35 CFM Price Industries F-122 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries		40 CFM	Price Industries
E-122 35 CFM Price Industries F-122 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	D-112A	50 CFM	Price Industries
F-122 110 CFM Price Industries F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	E-109	30 CFM	Price Industries
F-123 110 CFM Price Industries G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	E-122	35 CFM	Price Industries
G-110 150 CFM Price Industries G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	F-122	110 CFM	Price Industries
G-120 180 CFM Price Industries G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	F-123	110 CFM	Price Industries
G-121 180 CFM Price Industries J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	G-110	150 CFM	Price Industries
J-112.1 500 CFM Price Industries J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	G-120	180 CFM	Price Industries
J-112.2 500 CFM Price Industries J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	G-121	180 CFM	Price Industries
J-125 435 CFM Price Industries L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	J-112.1	500 CFM	Price Industries
L9 0 CFM Price Industries RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	J-112.2	500 CFM	Price Industries
RR-113.06 170 CFM Price Industries T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	J-125	435 CFM	Price Industries
T-113.01 204 CFM Price Industries T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	L9	0 CFM	Price Industries
T-113.02 204 CFM Price Industries T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	RR-113.06	170 CFM	Price Industries
T-113.03 204 CFM Price Industries T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	T-113.01	204 CFM	Price Industries
T-113.04 204 CFM Price Industries T-113.05 204 CFM Price Industries	T-113.02	204 CFM	Price Industries
T-113.05 204 CFM Price Industries	T-113.03	204 CFM	Price Industries
T-113.05 204 CFM Price Industries	T-113.04		Price Industries
	T-113.05		Price Industries
	V-118	350 CFM	

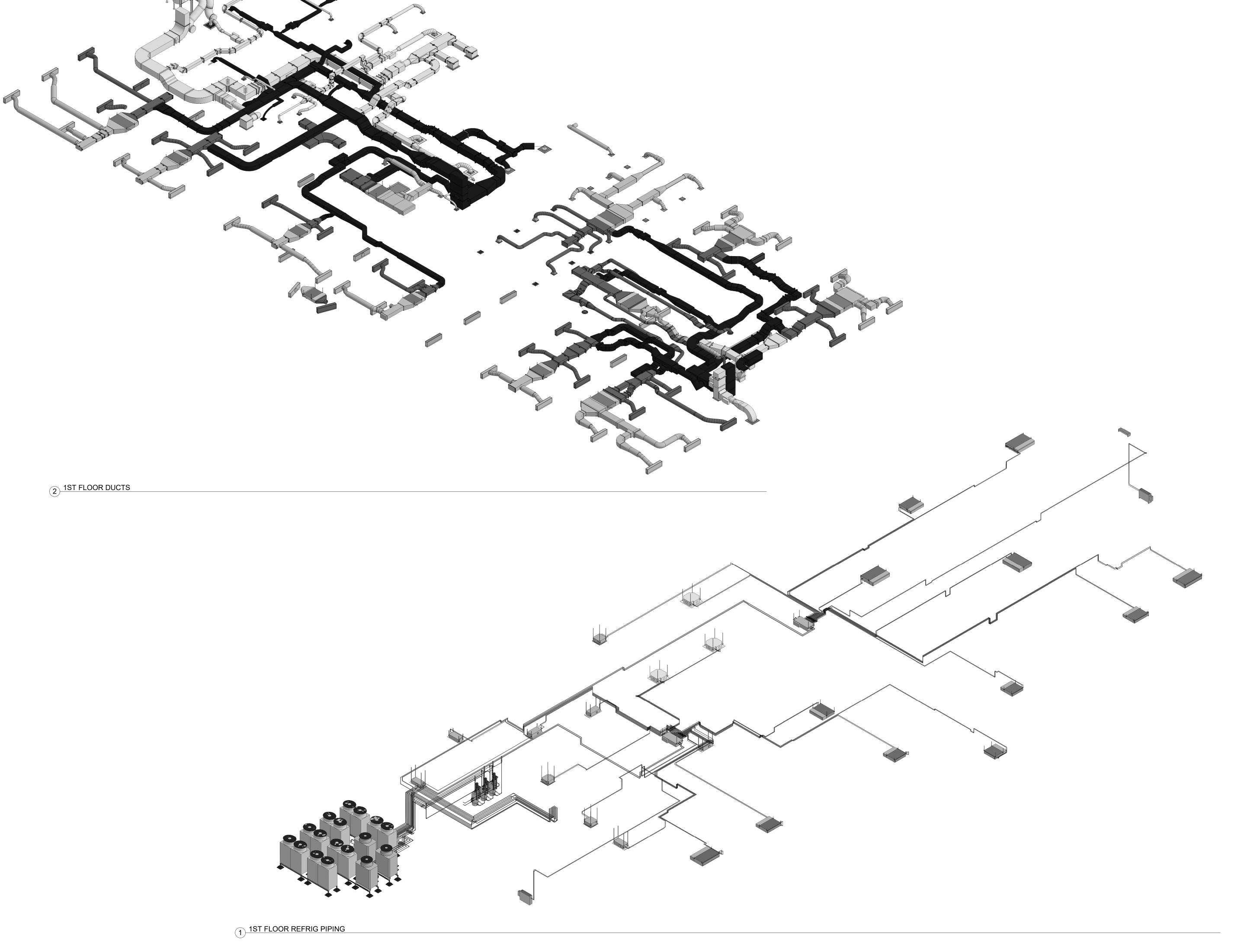
LEVEL 1 BC1-2 TO OU1-2 MAINS				
DESCRIPTION	DESCRIPTION DIAMETER LENGTH BC-CONTROLLE			
OU1-2 GAS LINE	1 1/8"	140' - 4 15/16"	BC1-2	
OU1-2 LIQUID LINE	7/8"	142' - 7 11/16"	BC1-2	
Grand total: 21 283' - 0 5/8"				

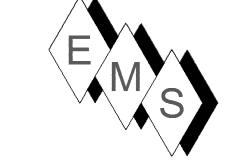
Grand total: 21	283	- 0 5/8"	
l	LEVEL 1 BC1-2 REFRIGE	ERATION PIF	PING
BC Controller	Piping Description	Diameter	Length
	W. 4. 0. 0. 4. 0. 1. 1. 1. 1.	4 /0!!	051 7 4/4011
BC1-2	IU1-6 GAS LINE	1/2"	35' - 7 1/16"
BC1-2	IU1-6 LIQUID LINE	1/4"	35' - 4 1/2"
BC1-2	IU1-8 GAS LINE	5/8"	17' - 1 1/2"
BC1-2	IU1-8 LIQUID LINE	3/8"	17' - 3 15/16"
BC1-2	IU1-9 GAS LINE	5/8"	51' - 7 13/16"
BC1-2	IU1-9 LIQUID LINE	3/8"	51' - 2 3/16"
BC1-2	IU1-10 GAS LINE	5/8"	81' - 8 7/16"
BC1-2	IU1-10 LIQUID LINE	3/8"	81' - 10 5/8"
BC1-2	IU1-11 GAS LINE	5/8"	58' - 11 5/8"
BC1-2	IU1-11 LIQUID LINE	3/8"	59' - 5"
BC1-2	IU1-12 GAS LINE	5/8"	99' - 0 13/16"
BC1-2	IU1-12 LIQUID LINE	3/8"	98' - 6 11/16"
BC1-2	IU1-13 GAS LINE	5/8"	114' - 6 15/16"
BC1-2	IU1-13 LIQUID LINE	3/8"	114' - 9 1/16"
BC1-2	IU1-19 GAS LINE	1/2"	113' - 0 13/16"
BC1-2	IU1-19 LIQUID LINE	1/4"	112' - 9 3/8"
BC1-2	IU1-21 GAS LINE	1/2"	60' - 5 1/2"
BC1-2	IU1-21 LIQUID LINE	1/4"	59' - 9 3/8"
BC1-2	IU1-25 GAS LINE	1/2"	59' - 9 11/16"
BC1-2	IU1-25 LIQUID LINE	1/4"	59' - 11 11/16"
Grand total: 25	2		1383' - 0 3/4"

LEVEL 1 EXHAUST RGD SCHEDULE			
Mark	Actual Return Air Flow	Manufacturer	
DD-112a	15 CFM	Price Industries	
DD-109	20 CFM	Price Industries	
DD-107	30 CFM	Price Industries	
EE-122.1	35 CFM	Price Industries	
EE-122.3	105 CFM	Price Industries	
EE-122.2	105 CFM	Price Industries	
EE-123.1	105 CFM	Price Industries	
EE-123.2	105 CFM	Price Industries	
FF-110	150 CFM	Price Industries	
GG-111	255 CFM	Price Industries	
GG-120	280 CFM	Price Industries	
GG-121	280 CFM	Price Industries	
JJ-124	400 CFM	Price Industries	
JJ-121	400 CFM	Price Industries	
D-112D	400 CFM	Price Industries	
D-112E	400 CFM	Price Industries	
KK-114	725 CFM	Price Industries	
MM-112.2	800 CFM	Price Industries	
MM-112.1	800 CFM	Price Industries	
MM-125	1060 CFM	Price Industries	
ADDED EX GRILLE	1620 CFM	Price Industries	

Mark	k Manufacturer Model Description		
Want	Manadatato	Wodel	Decomption
BC1-1	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi Electric Main Branch, 16 BC Controller
BC1-2	Mitsubishi Electric	CMB-P1012NU-JA1	Mitsubishi Electric Main Branch, 12 BC Controller
CU1-1	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU1-2	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU2-1	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU2-2	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU4-1	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU5-1	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
CU5-2	Mitsubishi Electric	PURY-P168TNU-A	Mitsubishi Electric 14 Ton, R2 Series, Air-Source VRF Heat Pump, 208V
IU1-1	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-2	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-3	Mitsubishi Electric	PLFY-P05NFMU-E	Mitsubishi Electric 18000 Btu/h, Ceiling Recessed, 4-Way, PLFY Series Air Conditioner
IU1-4	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-5	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-6	Mitsubishi Electric	PLFY-EP48NEMU-E	Mitsubishi Electric 48000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner
IU1-7	Mitsubishi Electric	PLFY-EP48NEMU-E	Mitsubishi Electric 48000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner
IU1-8	Mitsubishi Electric	PEFY-P36NMAU-E3	Mitsubishi Electric 36000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-9	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-10	Mitsubishi Electric	PEFY-P36NMAU-E3	Mitsubishi Electric 36000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-11	Mitsubishi Electric	PEFY-P36NMAU-E3	Mitsubishi Electric 36000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-12	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-13	Mitsubishi Electric	PEFY-P36NMAU-E3	Mitsubishi Electric 36000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-14	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-15	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-16	Mitsubishi Electric	PLFY-P05NFMU-E	Mitsubishi Electric 18000 Btu/h, Ceiling Recessed, 4-Way, PLFY Series Air Conditioner
IU1-17	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU1-18	Mitsubishi Electric	PEFY-P18NMSU-ER2	Mitsubishi Electric 18000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-18	Mitsubishi Electric	PFFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner
IU1-19	Mitsubishi Electric	PFFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner
IU1-20	Mitsubishi Electric	PEFY-P18NMSU-ER2	Mitsubishi Electric 18000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-20	Mitsubishi Electric	PEFY-P18NMSU-ER2	Mitsubishi Electric 18000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-21	Mitsubishi Electric	PEFY-P18NMSU-ER2	Mitsubishi Electric 18000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-22	Mitsubishi Electric	PEFY-P18NMSU-ER2	Mitsubishi Electric 18000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-23	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-24	Mitsubishi Electric	PEFY-P36NMAU-E3	Mitsubishi Electric 36000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU1-25	Mitsubishi Electric	PLFY-P05NFMU-E	Mitsubishi Electric 18000 Btu/h, Ceiling Recessed, 4-Way, PLFY Series Air Conditioner
IU1-26	Mitsubishi Electric	PLFY-EP18NEMU-E	Mitsubishi Electric 18000 Btu/h, Ceiling Recessed, Deluxe Model, 4-Way, PLFY Series Air Conditioner

MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
VE1-1	Price Industries	SDV5 Series	Cinale Duet Terreinel Heit	Left Hand Control w/ PS	20":47" 44"~	1060 CFM
			Single Duct Terminal Unit		20"x17"-14"ø	
VE1-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	590 CFM
VE1-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-5"ø	150 CFM
VE1-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	50 CFM
VE1-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	455 CFM
VE1-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-6"ø	255 CFM
VE1-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	20"x14"-14"ø	2000 CFM
VE1-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	20"x14"-14"ø	1595 CFM
VE1-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	420 CFM
VE1-11	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	725 CFM
VS1-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	20"x18"-14"ø	1700 CFM
VS1-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	16"x15"-12"ø	950 CFM
VS1-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-5"ø	150 CFM
VS1-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	50 CFM
VS1-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	690 CFM
VS1-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	1000 CFM
VS1-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	16"x15"-12"ø	1370 CFM
VS1-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	225 CFM
VS1-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	420 CFM
VS1-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	725 CFM





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

No.	Description	Date
0	1ST FLOOR FORMAL SHOP DWG. ISSUE	8/9/2021
1	AS-BUILT	6/20/202

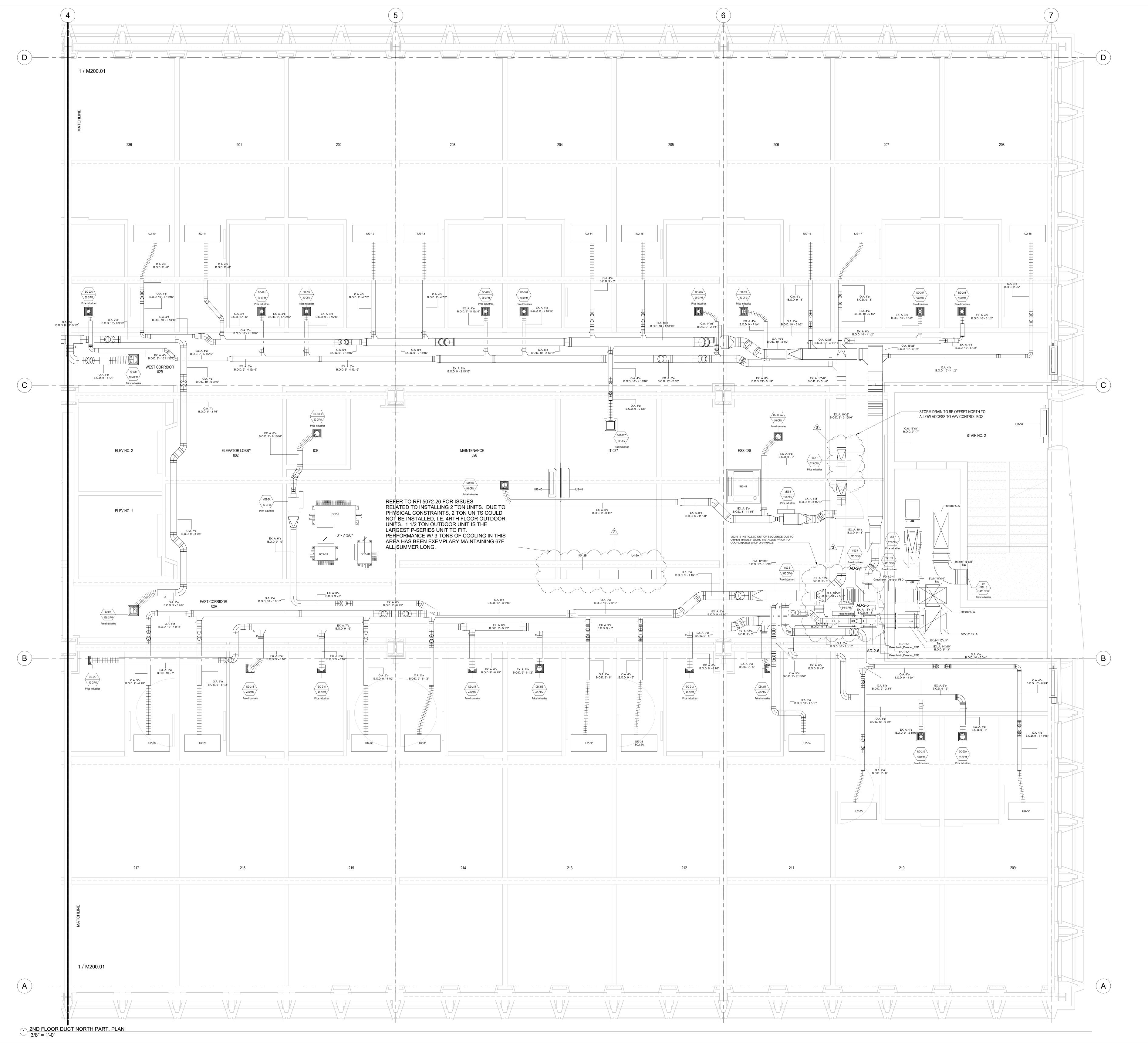
HOTEL MARCELL BY HILTON

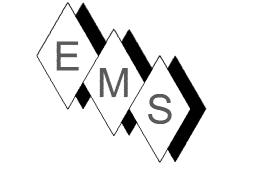
PIRELLI HOTEL

ISO VIEWS & SCHEDULES

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

M100.20





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 EQUIVELENTS 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 N2 PURGE AND BRAZED JOINTS. ALL MAINS

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

ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.

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	Moved VAV Plb must change	5/7/2021
1	AS-BUILT	6/20/2022
2	CLARIFICATION NOTE	10/28/2022
3	FIELD ROUTE VE2-6, 2-5, 2-7	12/8/2022

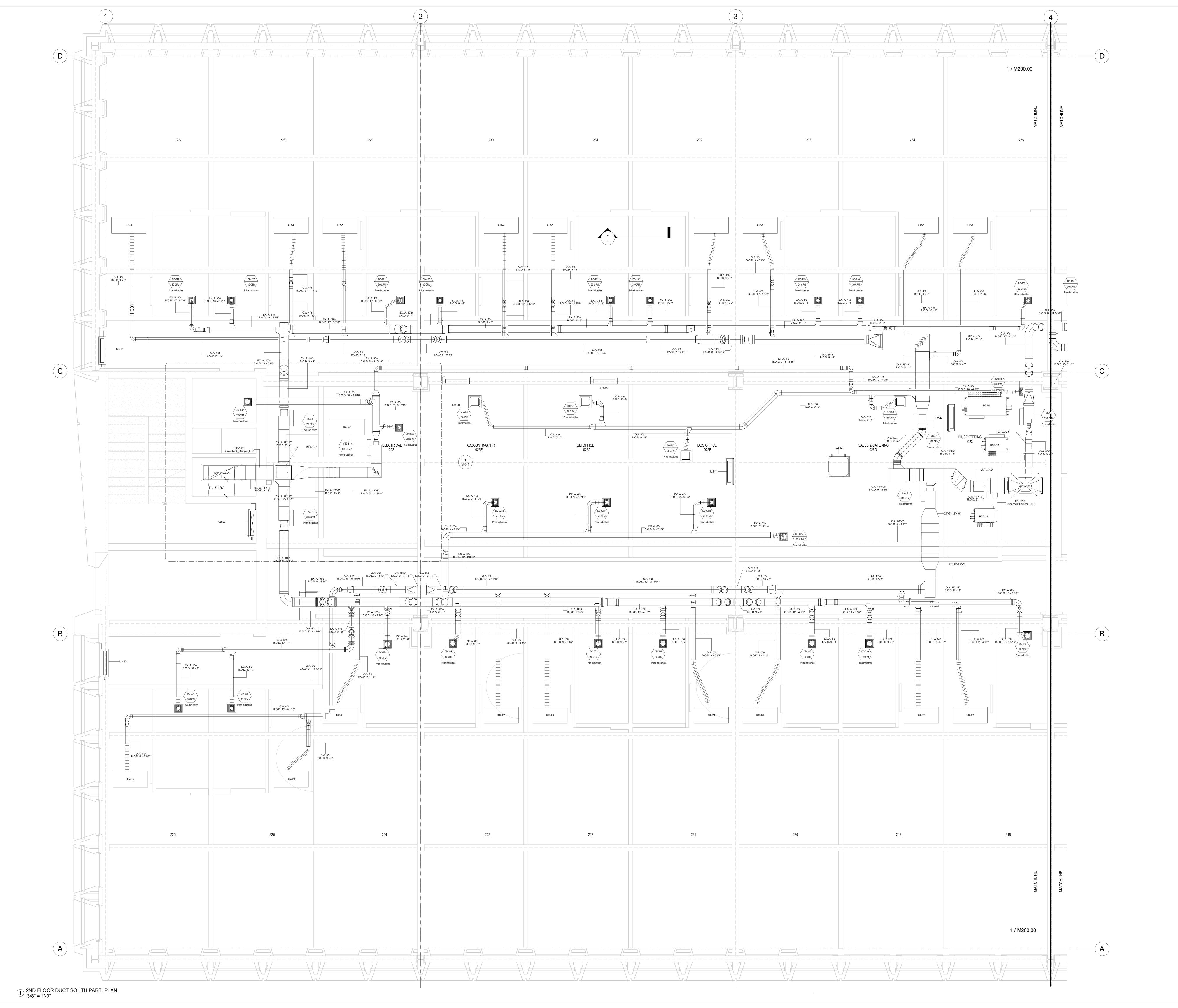
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECOND FLOOR HVAC PART. PLAN NORTH

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

M200.00





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 EQUIVELENTS 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 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 AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE

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
	AS-BUILT	6/20/2022

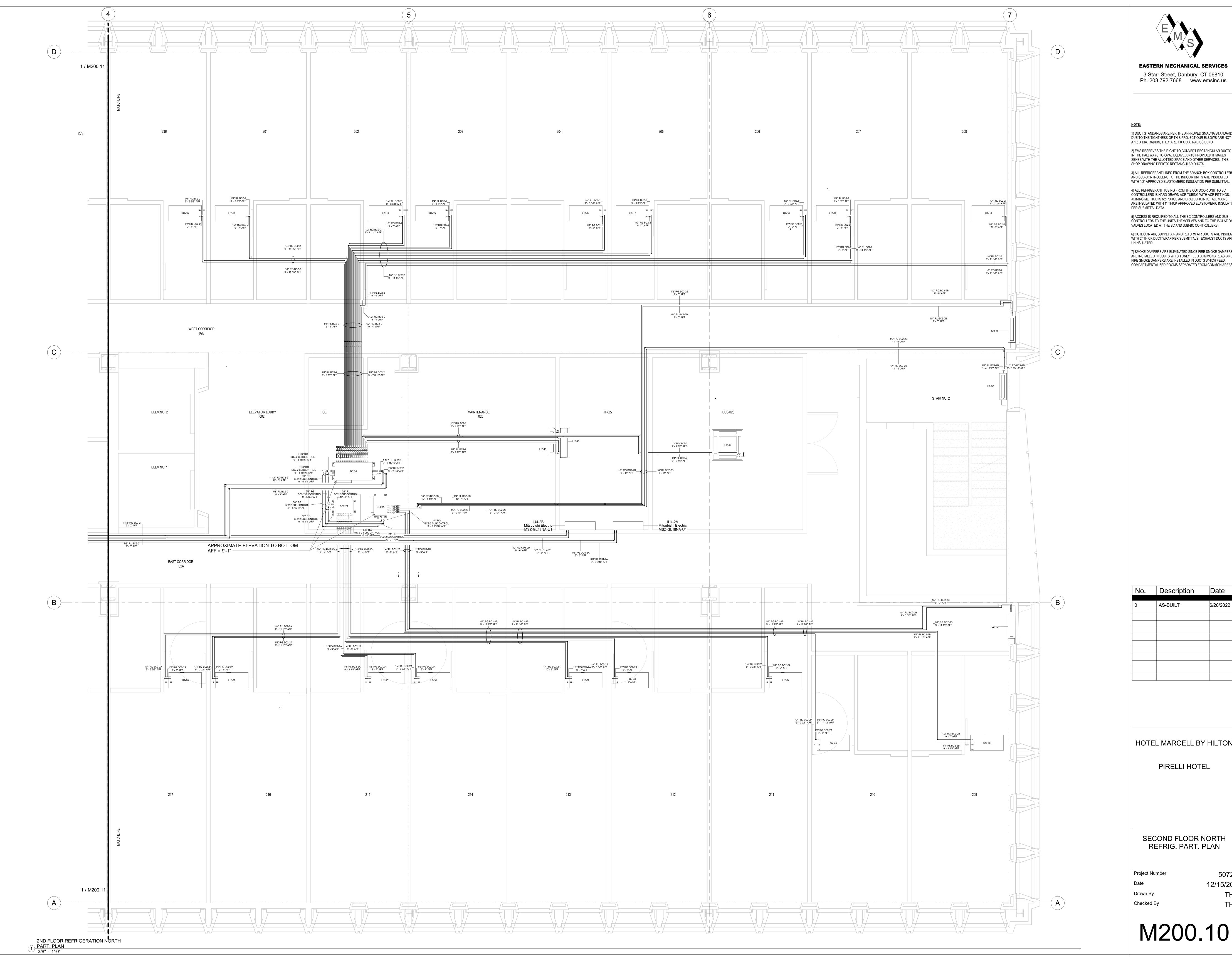
HOTEL MARCELL BY HILTON

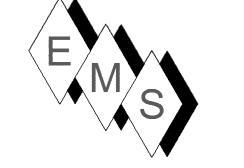
PIRELLI HOTEL

SECOND FLOOR HVAC PART. PLAN SOUTH

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

1200.01





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

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

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 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 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.

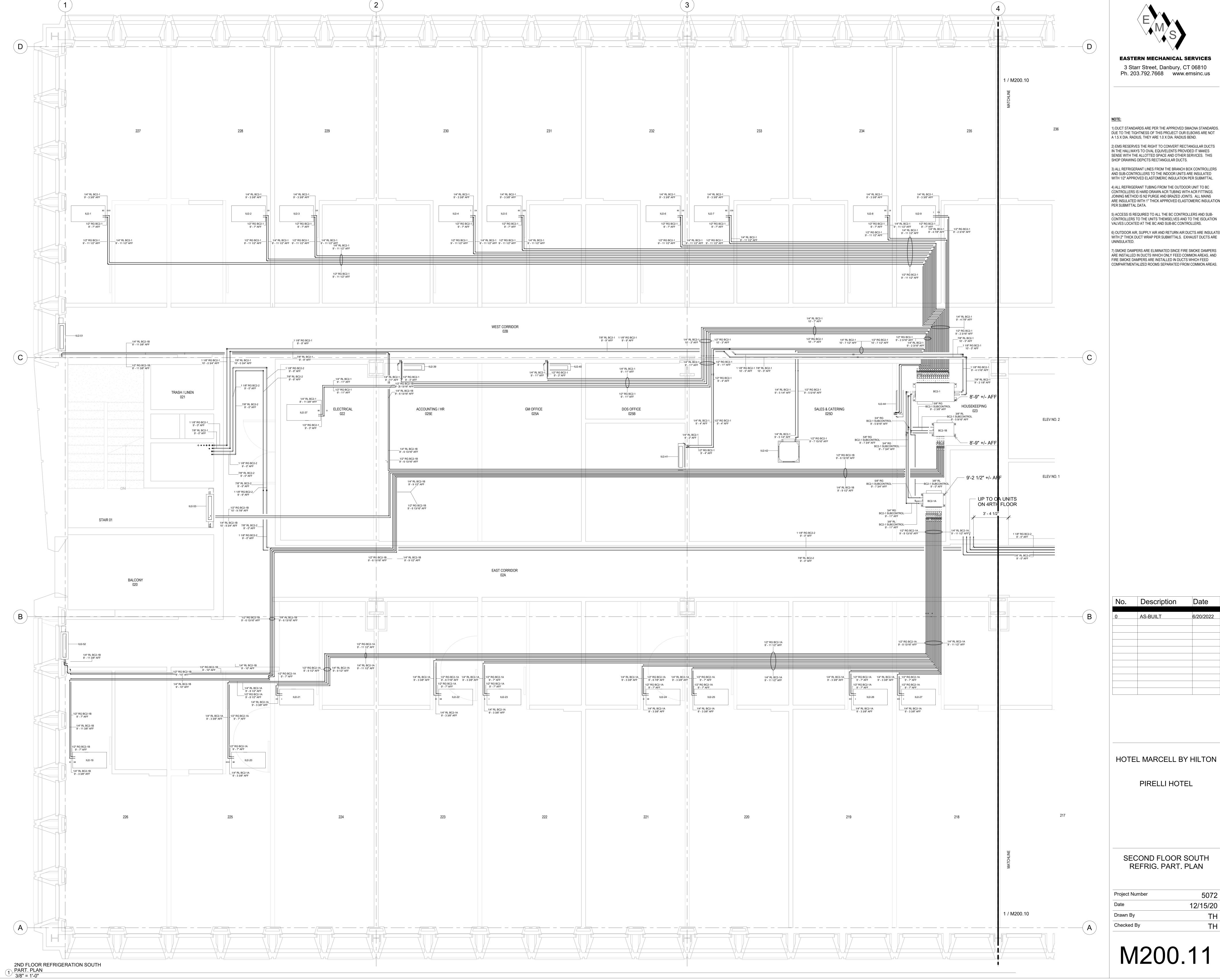
No.	Description	Date
INO.	Description	Date
)	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECOND FLOOR NORTH REFRIG. PART. PLAN

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



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

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 EQUIVELENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS

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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. 6) OUTDOOR AIR, SUPPLY AIR AND RETURN AIR DUCTS ARE INSULATED WITH 2" THICK DUCT WRAP PER SUBMITTALS. EXHAUST DUCTS ARE

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

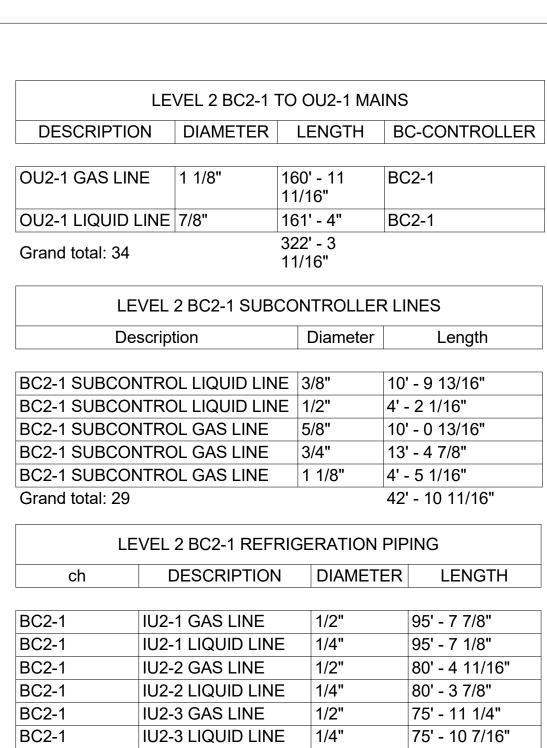
No. Description

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECOND FLOOR SOUTH REFRIG. PART. PLAN

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



	LEVEL 2 BC2-1 REFRIG	ERATION PIP	rING
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	IU2-37 GAS LINE	1/2"	72' - 3 1/16"
BC2-1	IU2-37 LIQUID LINE	1/4"	72' - 8"
BC2-1	IU2-39 GAS LINE	1/2"	65' - 8 15/16"
BC2-1	IU2-39 LIQUID LINE	1/4"	65' - 10 1/2"
BC2-1	IU2-40 GAS LINE	1/2"	51' - 7 13/16"
BC2-1	IU2-40 LIQUID LINE	1/4"	51' - 9 7/8"
BC2-1	IU2-41 GAS LINE	1/2"	38' - 3 15/16"
BC2-1	IU2-41 LIQUID LINE	1/4"	37' - 11 11/16"
BC2-1	IU2-42 GAS LINE	1/2"	24' - 5"
BC2-1	IU2-42 LIQUID LINE	1/4"	24' - 10 5/16"
BC2-1	IU2-44 GAS LINE	1/2"	8' - 6 5/8"
BC2-1	IU2-44 LIQUID LINE	1/4"	8' - 7 13/16"
Grand total:	254	1	1492' - 7 3/8"

IU2-51 LIQUID LINE IU2-52 GAS LINE	1/4"	107' - 5 7/16" 115' - 0 1/8"
IU2-51 GAS LINE	1/2"	107' - 1 7/16"
IU2-19 LIQUID LINE	1/4"	115' - 5 9/16"
IU2-19 GAS LINE	1/2"	114' - 4 3/16"
Description	Diametel	Length
2		868' - 4 1/4"
	1/4"	22' - 2 5/8"
		21' - 8 1/2"
IU2-26 LIQUID LINE		26' - 8"
IU2-26 GAS LINE	1/2"	26' - 2 7/16"
IU2-25 LIQUID LINE	1/4"	41' - 5 15/16"
IU2-25 GAS LINE	1/2"	41' - 1 3/8"
IU2-24 LIQUID LINE	1/4"	46' - 2 13/16"
IU2-24 GAS LINE	1/2"	45' - 10 1/16"
IU2-23 LIQUID LINE	1/4"	61' - 4 11/16"
IU2-23 GAS LINE	1/2"	60' - 11 3/16"
IU2-22 LIQUID LINE	1/4"	66' - 0 3/8"
IU2-22 GAS LINE	1/2"	65' - 6 9/16"
IU2-21 LIQUID LINE	1/4"	80' - 9 9/16"
IU2-21 GAS LINE	1/2"	80' - 2 5/8"
	IU2-21 LIQUID LINE IU2-22 GAS LINE IU2-23 GAS LINE IU2-23 GAS LINE IU2-23 LIQUID LINE IU2-24 GAS LINE IU2-24 GAS LINE IU2-25 GAS LINE IU2-25 GAS LINE IU2-26 GAS LINE IU2-26 GAS LINE IU2-27 LIQUID LINE IU2-27 LIQUID LINE IU2-27 LIQUID LINE	IU2-21 LIQUID LINE

IU2-53 LIQUID LINE 1/4"

BC2-1B

Grand total: 111

115' - 10 13/16"

88' - 5 5/16"

88' - 7 15/16"

852' - 4 13/16"

IU2-20 LIQUID LINE 1/4" 91' - 2 7/16"

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"			

L	EVEL 2 BC2-2 SUBCC	TNC	ROLLER LI	NES
D	escription		Diameter	Length
BC2-2 SUBCO	NTROL LIQUID LINE	3/8	"	7' - 9 7/16"
BC2-2 SUBCO	NTROL LIQUID LINE	1/2	"	4' - 4 1/16"
3C2-2 SUBCO	NTROL GAS LINE	5/8	"	9' - 6 1/4"
BC2-2 SUBCO	NTROL GAS LINE	3/4	"	11' - 4 3/4"
BC2-2 SUBCO	NTROL GAS LINE	11	/8"	4' - 4 7/16"
Grand total: 31				37' - 4 15/16"
l	EVEL 2 BC2-2 REFRI	GEF	RATION PIF	PING
BC Controller	Piping Description		Diameter	Length
			1	-
				Table 5 = // 5 !!

I	LEVEL 2 BC2-2 REFRIGE	ERATION PIP	PING
BC Controller	Piping Description	Diameter	Length
BC2-2	IU2-10 GAS LINE	1/2"	38' - 8 5/16"
BC2-2	IU2-10 CAS 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' - 9 3/8"
BC2-2	IU2-47 GAS LINE	1/2"	42' - 3 13/16"
BC2-2	IU2-47 LIQUID LINE	1/4"	41' - 1 5/8"

3C 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 1/16"
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	1/4"	41' - 9 7/16"
BC2-2A	IU2-33 GAS LINE	1/2"	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: 50	5		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 1/16"		
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	5		697' - 8 5/16"		

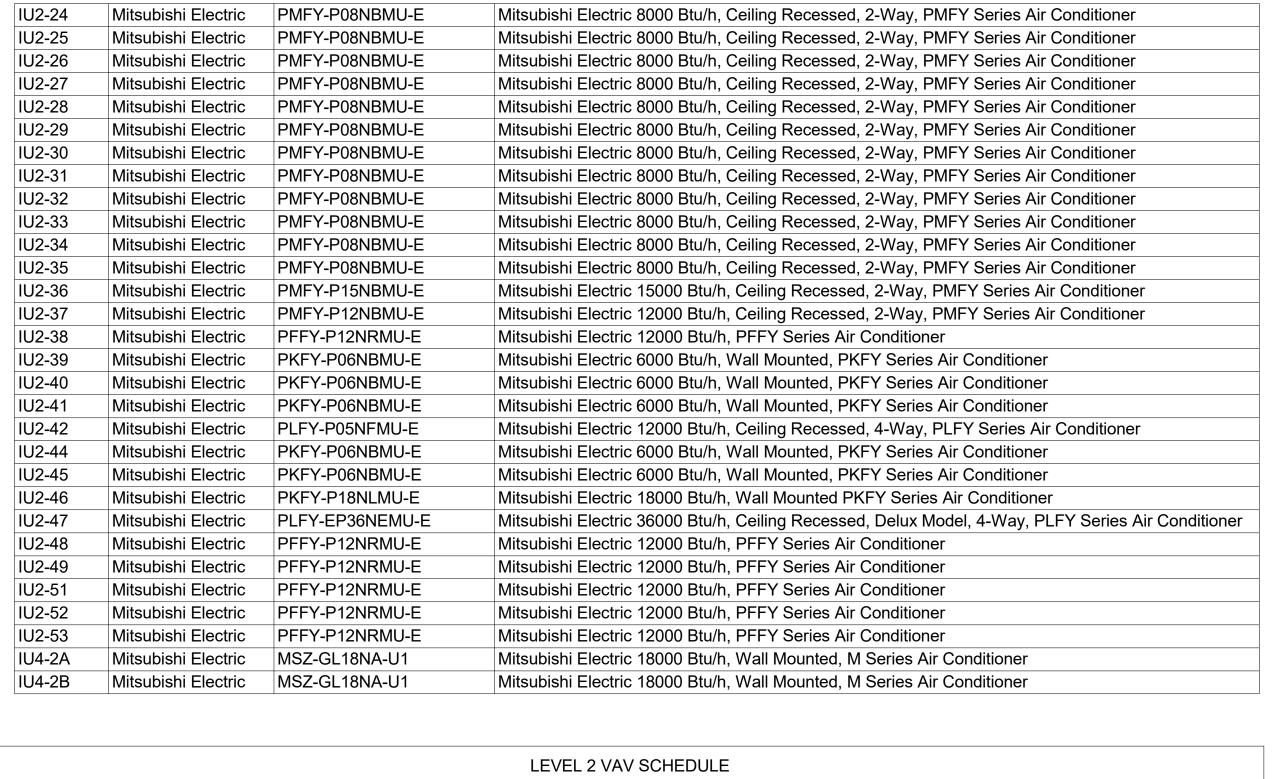
2ND FLOOR DUCTS

		LE	EVEL 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

2-2B	Mitsubishi Electric	CMB-P104NU-KB1	Mitsubishi Electric Sub Branch, 4 BC Controller	102-29	Mitsubishi Electric
2-1	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-30	Mitsubishi Electric
2-2	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-31	Mitsubishi Electric
2-3	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-32	Mitsubishi Electric
2-4	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-33	Mitsubishi Electric
2-5	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-34	Mitsubishi Electric
2-6	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-35	Mitsubishi Electric
2-7	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-36	Mitsubishi Electric
2-8	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-37	Mitsubishi Electric
2-9	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-38	Mitsubishi Electric
2-10	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-39	Mitsubishi Electric
2-11	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-40	Mitsubishi Electric
2-12	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-41	Mitsubishi Electric
2-13	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-42	Mitsubishi Electric
2-14	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-44	Mitsubishi Electric
2-15	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-45	Mitsubishi Electric
2-16	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-46	Mitsubishi Electric
2-17	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-47	Mitsubishi Electric
2-18	Mitsubishi Electric	PMFY-P15NBMU-E	Mitsubishi Electric 15000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-48	Mitsubishi Electric
2-19	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-49	Mitsubishi Electric
2-20	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-51	Mitsubishi Electric
2-21	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-52	Mitsubishi Electric
2-22	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-53	Mitsubishi Electric
2-23	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU4-2A	Mitsubishi Electric
				IU4-2B	Mitsubishi Electric
				1	1

litsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-52	Mitsubishi Electric	PFFY-P12NRM	1U-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
itsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-53	Mitsubishi Electric	PFFY-P12NRM	Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
itsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU4-2A	Mitsubishi Electric	MSZ-GL18NA-	U1 Mitsubishi Electric 18	8000 Btu/h, Wall Mounted, M Series Air Con	ditioner	
			IU4-2B	Mitsubishi Electric	MSZ-GL18NA-	U1 Mitsubishi Electric 18	8000 Btu/h, Wall Mounted, M Series Air Con	ditioner	
						LEVEL 2 VAV S	CHEDULE		
			MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
			VE2-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	455 CFM
			VE2-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM
			VE2-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-4"ø	125 CFM
			VE2-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	130 CFM
			VE2-5A	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	50 CFM
			VE2-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	345 CFM
			VE2-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM
			VS2-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	345 CFM
	D. Frid		VS2-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	375 CFM
			VS2-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	290 CFM
			VS2-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	345 CFM
			VS2-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM

Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Electric Sub Branch, 8 BC Controller	102-28	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/n, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ier
Mitsubishi Electric	CMB-P104NU-KB1	Mitsubishi Electric Sub Branch, 4 BC Controller	IU2-29	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-30	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-31	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-32	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-33	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-34	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-35	Mitsubishi Electric	PMFY-P08NBMU	J-E Mitsubishi Electric 80	000 Btu/h, Ceiling Recessed, 2-Way, PMFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-36	Mitsubishi Electric	PMFY-P15NBMU	J-E Mitsubishi Electric 15	5000 Btu/h, Ceiling Recessed, 2-Way, PMF	Y Series Air Condition	oner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-37	Mitsubishi Electric	PMFY-P12NBMU	J-E Mitsubishi Electric 12	2000 Btu/h, Ceiling Recessed, 2-Way, PMF	Y Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-38	Mitsubishi Electric	PFFY-P12NRMU	I-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-39	Mitsubishi Electric	PKFY-P06NBMU	I-E Mitsubishi Electric 60	000 Btu/h, Wall Mounted, PKFY Series Air C	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-40	Mitsubishi Electric	PKFY-P06NBMU	I-E Mitsubishi Electric 60	000 Btu/h, Wall Mounted, PKFY Series Air C	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-41	Mitsubishi Electric	PKFY-P06NBMU	I-E Mitsubishi Electric 60	000 Btu/h, Wall Mounted, PKFY Series Air C	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-42	Mitsubishi Electric	PLFY-P05NFMU	-E Mitsubishi Electric 12	2000 Btu/h, Ceiling Recessed, 4-Way, PLFY	Series Air Condition	ner
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-44	Mitsubishi Electric	PKFY-P06NBMU	I-E Mitsubishi Electric 60	000 Btu/h, Wall Mounted, PKFY Series Air C	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-45	Mitsubishi Electric	PKFY-P06NBMU	J-E Mitsubishi Electric 60	000 Btu/h, Wall Mounted, PKFY Series Air C	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-46	Mitsubishi Electric	PKFY-P18NLMU	-E Mitsubishi Electric 18	8000 Btu/h, Wall Mounted PKFY Series Air	Conditioner	
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-47	Mitsubishi Electric	PLFY-EP36NEM	U-E Mitsubishi Electric 36	6000 Btu/h, Ceiling Recessed, Delux Model,	4-Way, PLFY Serie	s Air Conditioner
Mitsubishi Electric	PMFY-P15NBMU-E	Mitsubishi Electric 15000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-48	Mitsubishi Electric	PFFY-P12NRMU	I-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-49	Mitsubishi Electric	PFFY-P12NRMU	I-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-51	Mitsubishi Electric	PFFY-P12NRMU	J-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-52	Mitsubishi Electric	PFFY-P12NRMU	J-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU2-53	Mitsubishi Electric	PFFY-P12NRMU	J-E Mitsubishi Electric 12	2000 Btu/h, PFFY Series Air Conditioner		
Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner	IU4-2A	Mitsubishi Electric	MSZ-GL18NA-U	1 Mitsubishi Electric 18	3000 Btu/h, Wall Mounted, M Series Air Cor	nditioner	
			IU4-2B	Mitsubishi Electric	MSZ-GL18NA-U	1 Mitsubishi Electric 18	8000 Btu/h, Wall Mounted, M Series Air Cor	nditioner	
						LEVEL 2 VAV SO	CHEDULE		
			MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
			\/E2 1	Price Industries	SDV5 Sories	Single Duct Terminal Unit	Pight Hand Control w/ DS	12"v10" 9"a	455 CEM
			VE2-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	455 CFM



LEVEL 2 MITSUBISHI EQUIPMENT SCHEDULE

Model

Manufacturer

Description

INITION DISTIL FIECTIFIC	FFF I - F I ZININIVI	U-E IVIIISUDISI I		Diu/II, FFF I Selles All Collulliollei			
Mitsubishi Electric	tric PFFY-P12NRMU-E		shi Electric PFFY-P12NRMU-E Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner			DD-208	
Mitsubishi Electric	MSZ-GL18NA-l	NA-U1 Mitsubishi Electric 18000 Btu/h, Wall Mounted, M Series Air Conditioner			DD-223		
Mitsubishi Electric	MSZ-GL18NA-l	J1 Mitsubish	i Electric 18000	Btu/h, Wall Mounted, M Series Air C	Conditioner		DD-222
							DD-221
							DD-220
							DD-219
		LEVE	EL 2 VAV SCHE	EDULE			DD-217
MANUFACTURER	MODEL	DESCRIP	TION	CONTROL ORIENTATION	SIZE	FLOW	DD-216
							DD-215
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Right Hand Control w/ PS	12"x10"-8"ø	455 CFM	DD-214
Price Industries	SDV5 Series	Single Duct Terminal		Left Hand Control w/ PS	12"x10"-8"ø	275 CFM	DD-213
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Right Hand Control w/ PS	12"x8"-4"ø	125 CFM	DD-212
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x8"-4"ø	130 CFM	DD-211
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x8"-4"ø	50 CFM	DD-224
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x10"-8"ø	345 CFM	DD-218
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM	DD-IT-027
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Right Hand Control w/ PS	12"x10"-8"ø	345 CFM	DD-025D
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x10"-8"ø	375 CFM	DD-ICE-2
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x8"-4"ø	290 CFM	DD-T021
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x10"-8"ø	345 CFM	DD-026
Price Industries	SDV5 Series	Single Duct Terminal	Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM	46
1					-		LEVEL 2 S

Mark	Actual Supply Air Flow	Manufacture
IVIALK	I IOW	iviariuraciure
D-IT-027	15 CFM	Price Industries
D-025A	20 CFM	Price Industries
D-025D	50 CFM	Price Industries
D-025C	20 CFM	Price Industries
D-025B	20 CFM	Price Industries
G-02B	165 CFM	Price Industries

LEVEL 2 EXHAUST RGD SCHEDULE

Actual Return

Air Flow

Manufacturer

20 CFM Price Industries

20 CFM Price Industries

20 CFM Price Industries

20 CFM Price Industries

30 CFM Price Industries

35 CFM Price Industries

35 CFM Price Industries

35 CFM Price Industries

40 CFM Price Industries 40 CFM Price Industries

40 CFM Price Industries

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Price Industries

40 CFM

Mark

DD-025E

DD-025A

DD-025B

DD-E022

DD-225

DD-210

DD-227

DD-230

DD-231

DD-232

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DD-207

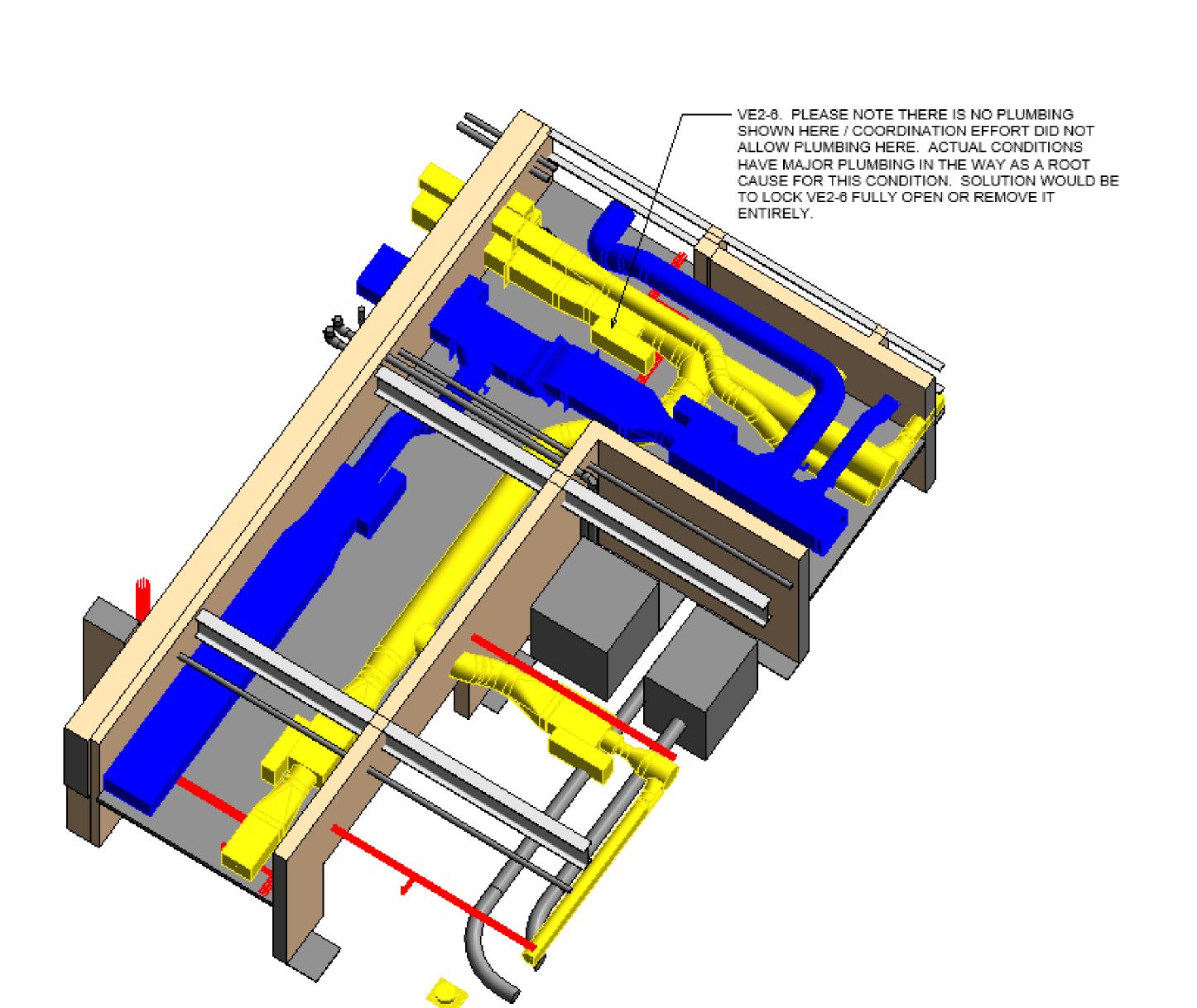
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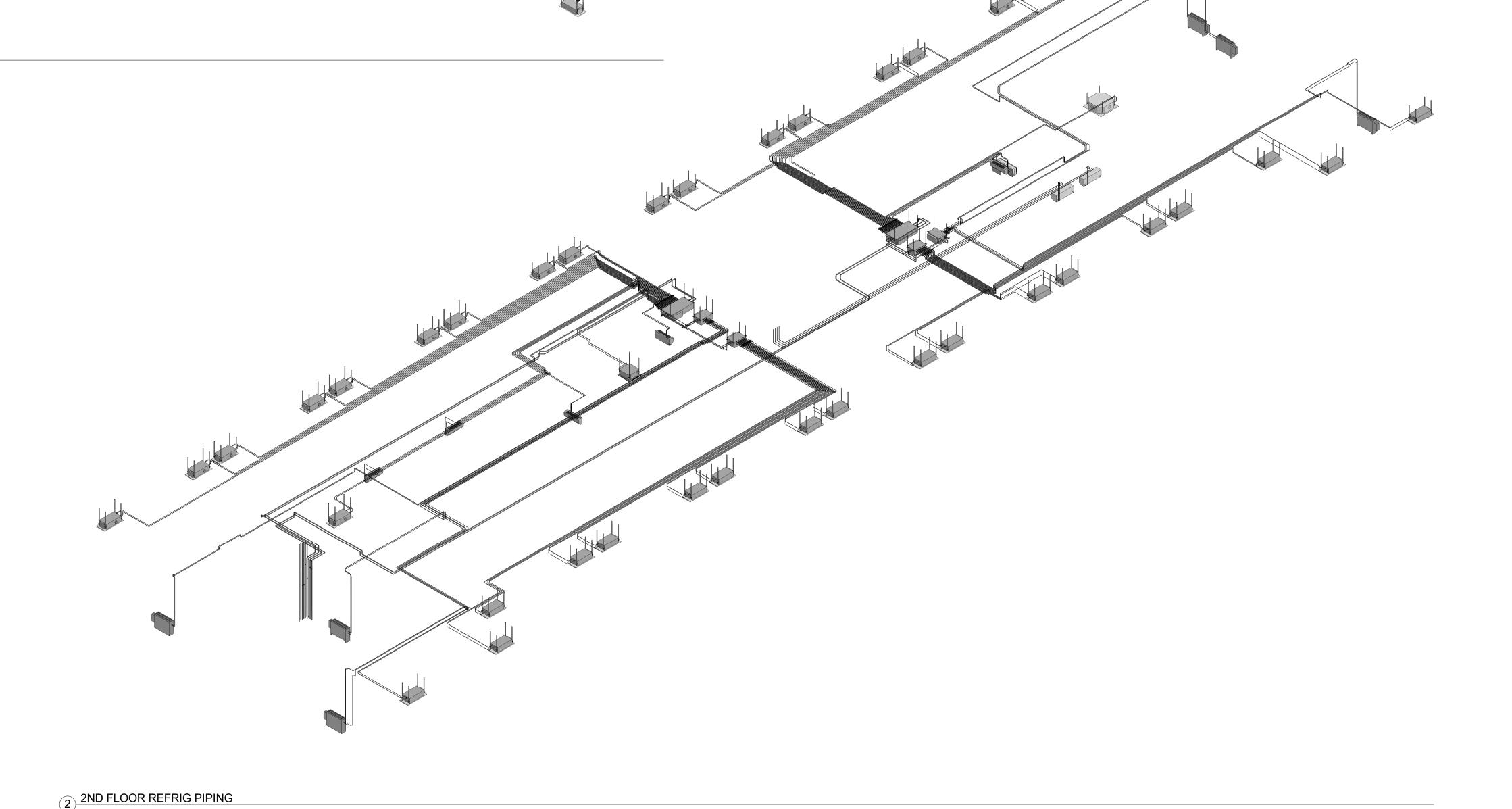
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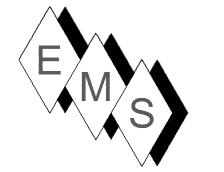
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DD-209







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

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 EQUIVELENTS 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 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 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
	40 DUII T	0/00/0000
0	AS-BUILT	6/20/2022

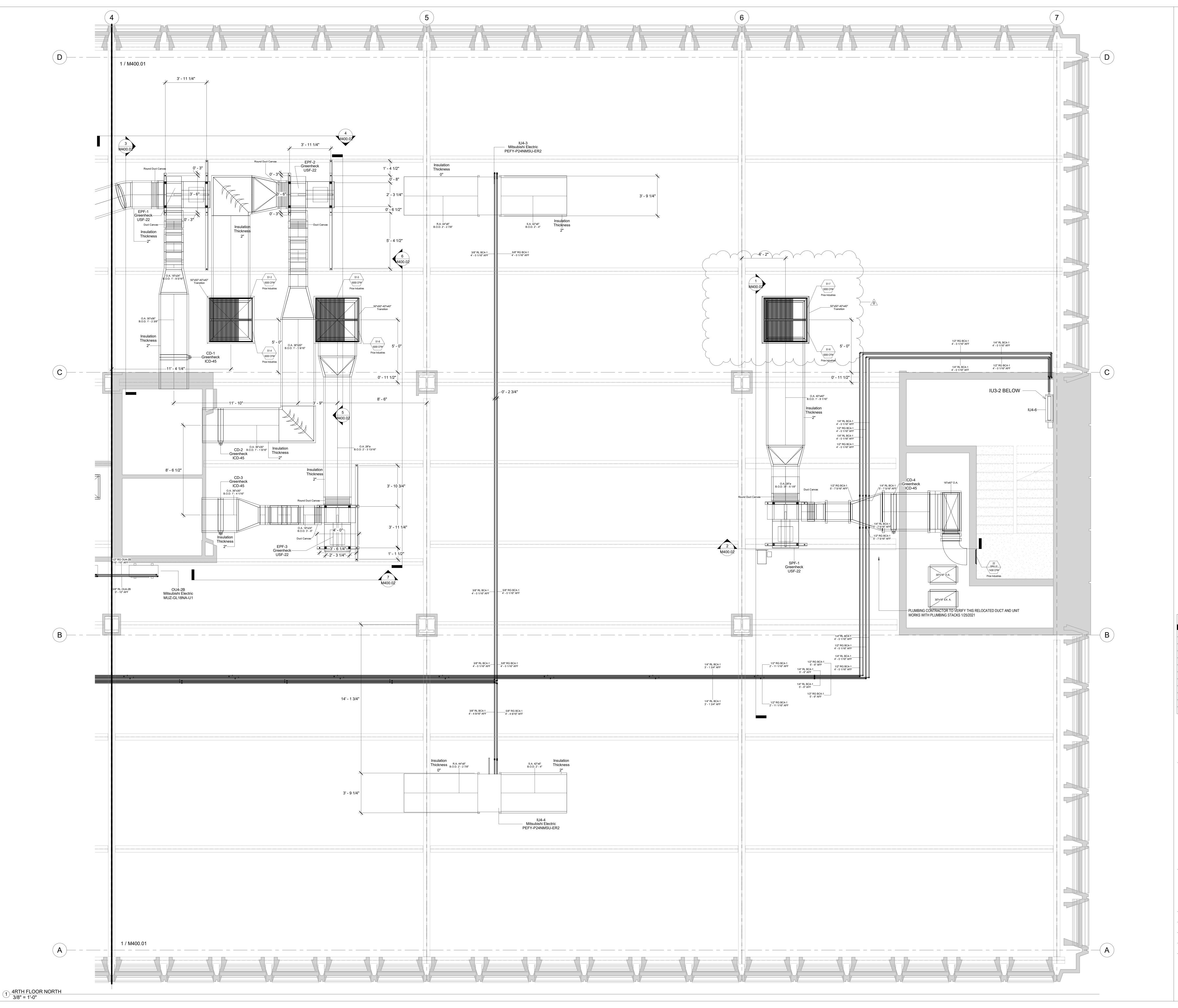
HOTEL MARCELL BY HILTON

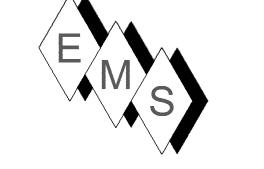
PIRELLI HOTEL

ISO VIEWS & SCHEDULES

5072
12/15/20
TH
TH

M200.20





PLAN NORTH →

NOTE:

1) VRF HVAC SYSTEM WAS DOWN SIZED PER LN CONSULTING BASED ON IMPROVED HEAT LOSS / HEAT GAIN CALCULATIONS/ CONDITIONS.

2) OU4-2 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, OU4-2 WILL BE REPURPOSED TO SERVE THE STAIRWELL UNITS FOR HEATING.

FA Intake Clash Plb 3/12/2021
AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FOURTH FLOOR NORTH HVAC PART. PLAN

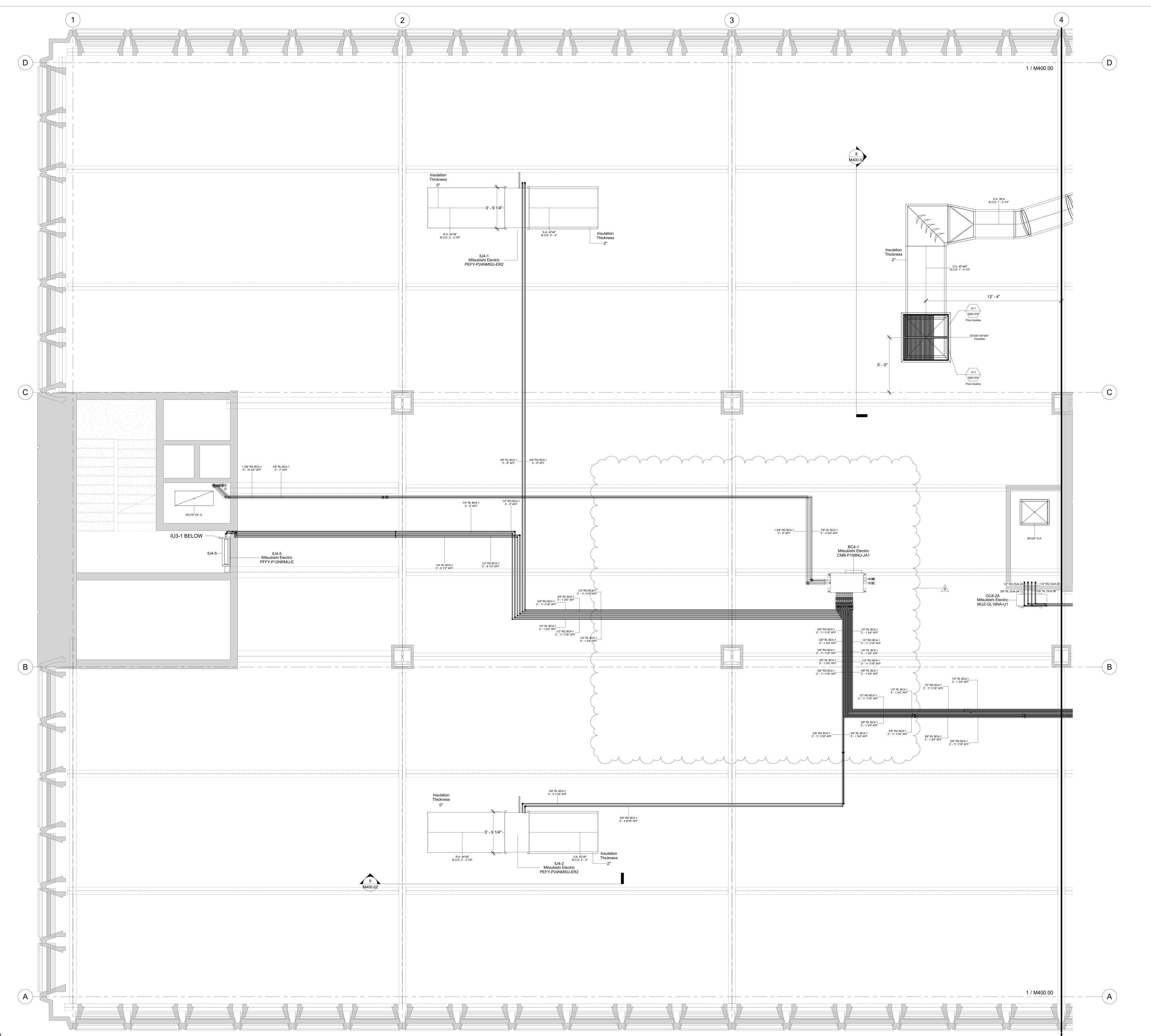
 Project Number
 5072

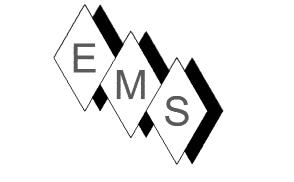
 Date
 12/15/20

 Drawn By
 TH

 Checked By
 SC

M400.00





PLAN NORTH →

NOTE:
1) VRF HVAC SYSTEM WAS DOWN SIZED PER LN CONSULTING
BASED ON IMPROVED HEAT LOSS / HEAT GAIN CALCULATIONS/
CONDITIONS.
2) OU4-2 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,
OU4-2 WILL BE REPURPOSED TO SERVE THE STAIRWELL UNITS
FOR HEATING.

No. Description Date

O Relocated BC Control 3/12/2021

1 AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FOURTH FLOOR SOUTH HVAC PART. PLAN

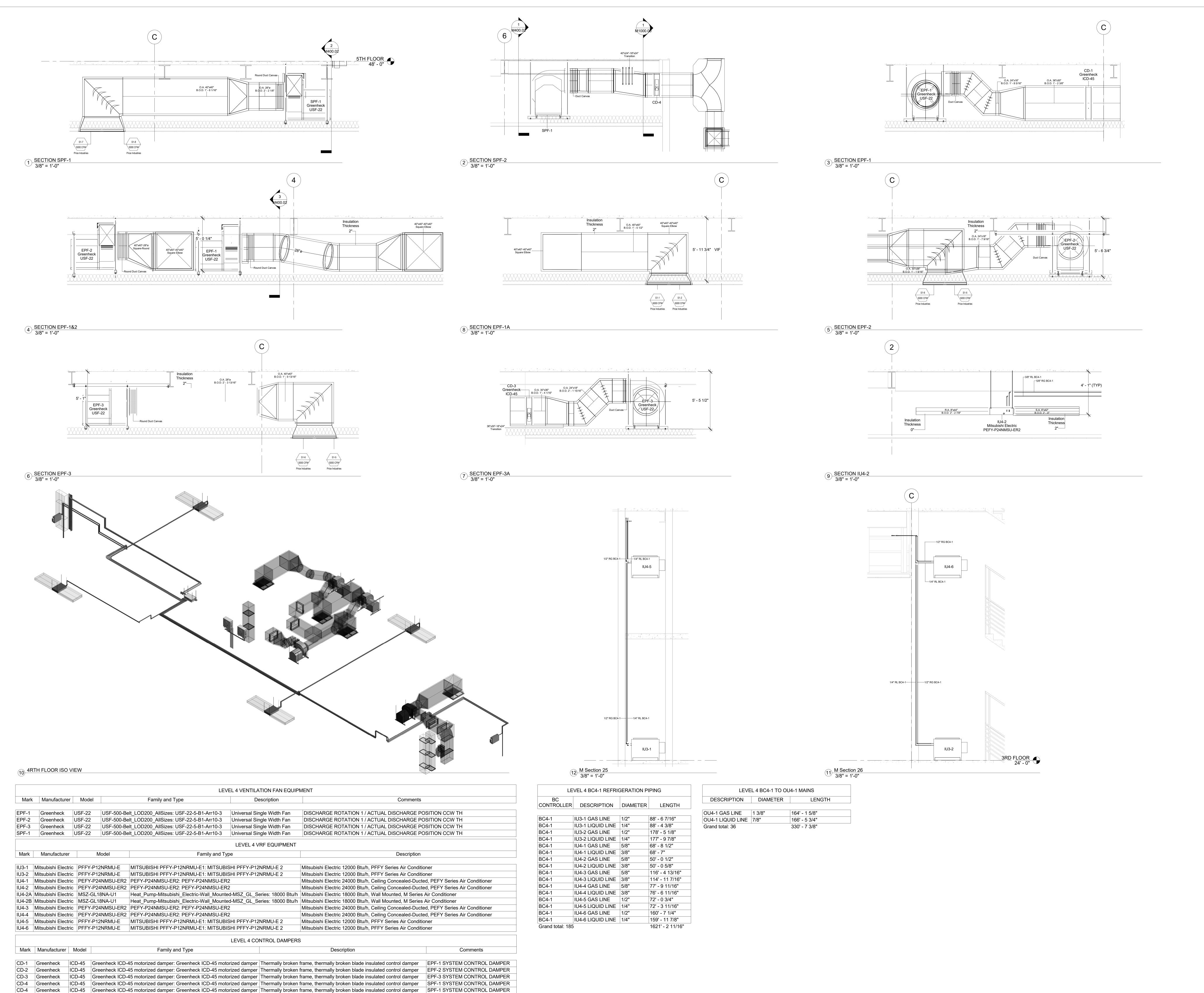
 Project Number
 5072

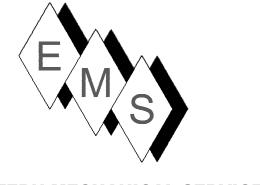
 Date
 12/15/20

 Drawn By
 TH

 Checked By
 SC

1400.01





NOTE:

1) VRF HVAC SYSTEM WAS DOWN SIZED PER LN CONSULTING
BASED ON IMPROVED HEAT LOSS / HEAT GAIN CALCULATIONS/
CONDITIONS.

2) OU4-2 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,
OU4-2 WILL BE REPURPOSED TO SERVE THE STAIRWELL UNITS

FOR HEATING.

Vo.	Description	Date
	AS-BUILT	6/20/2022

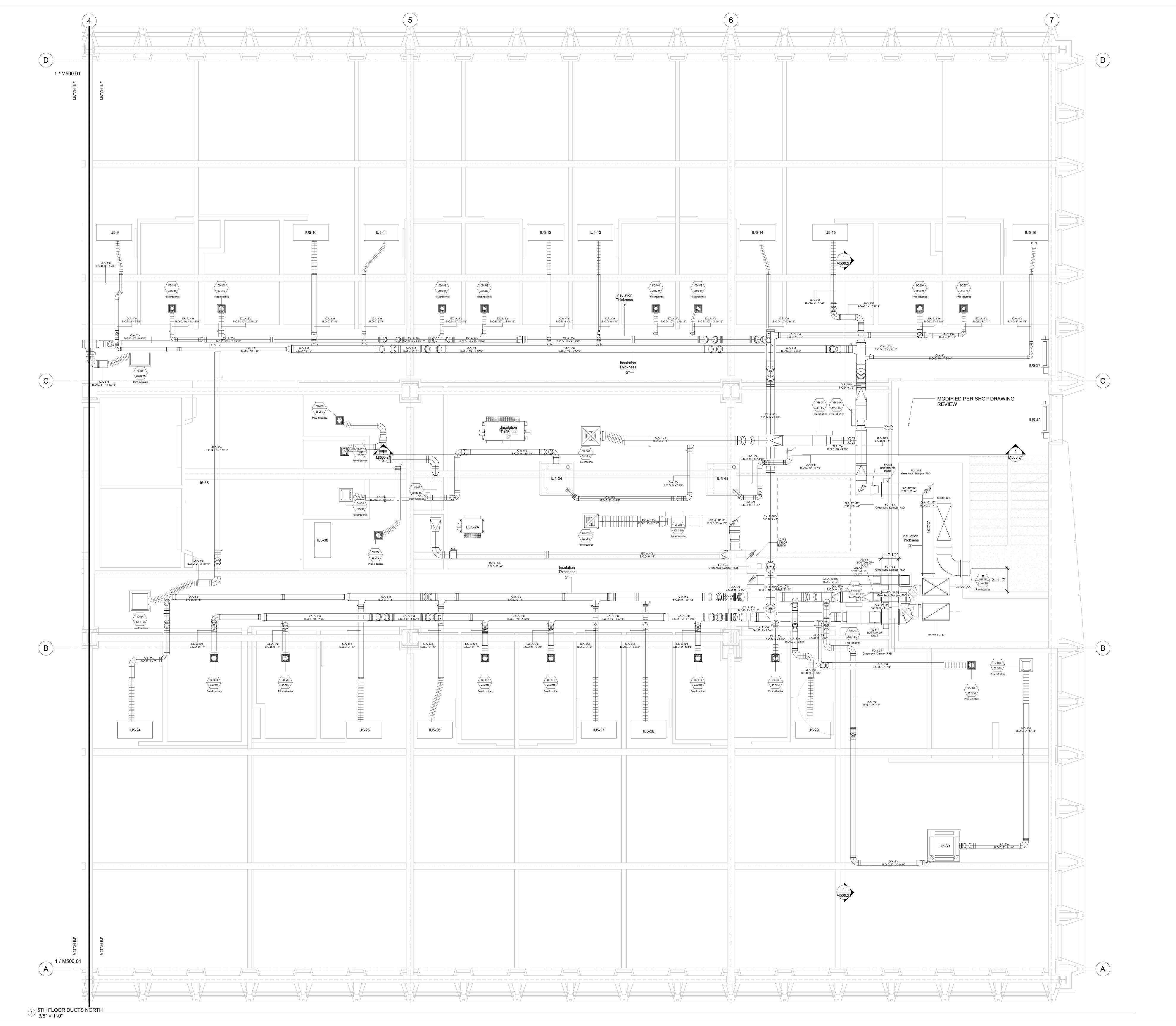
HOTEL MARCELL BY HILTON

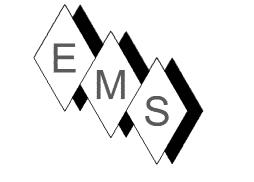
PIRELLI HOTEL

4RTH FLOOR SECTION VIEWS

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

M400.02





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 DOUBLE DESCRIPTION OF SAME FOLLOWING.

TO: ROUND, RECTANGULAR OR OVAL EQUIVALENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES.

PER SUBMITTAL DATA.

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 TURING FROM THE OUTDOOR UNIT TO BC

5) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS. JOINING METHOD IS N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

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

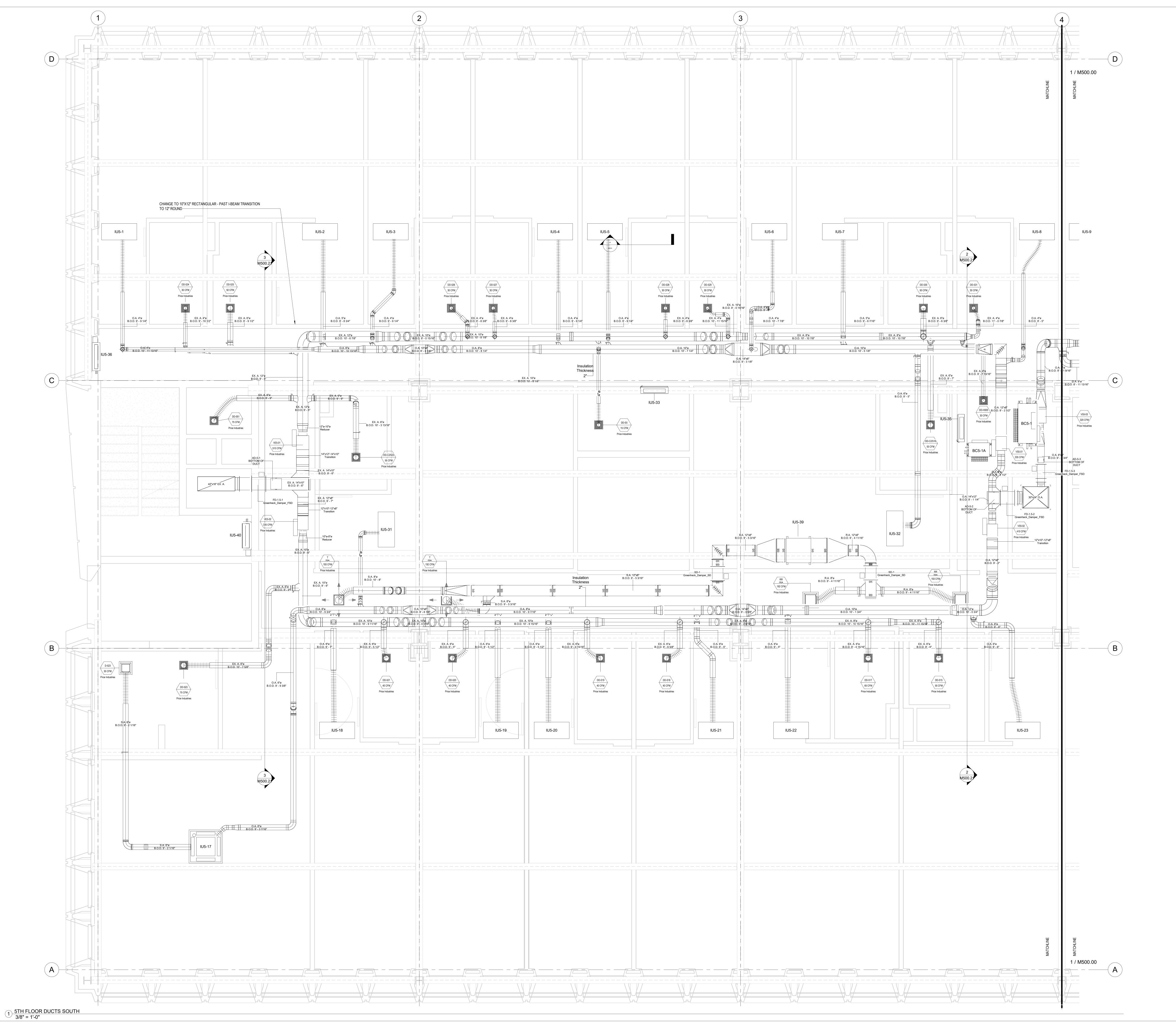
10.	Description	Date
	AS-BUILT	6/20/2022

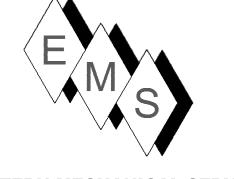
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIFTH FLOOR NORTH HVAC PART. PLAN

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





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.

CONTROLLERS IS HARD DRAWN ACR TUBING WITH ACR FITTINGS.
JOINING METHOD IS N2 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

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.

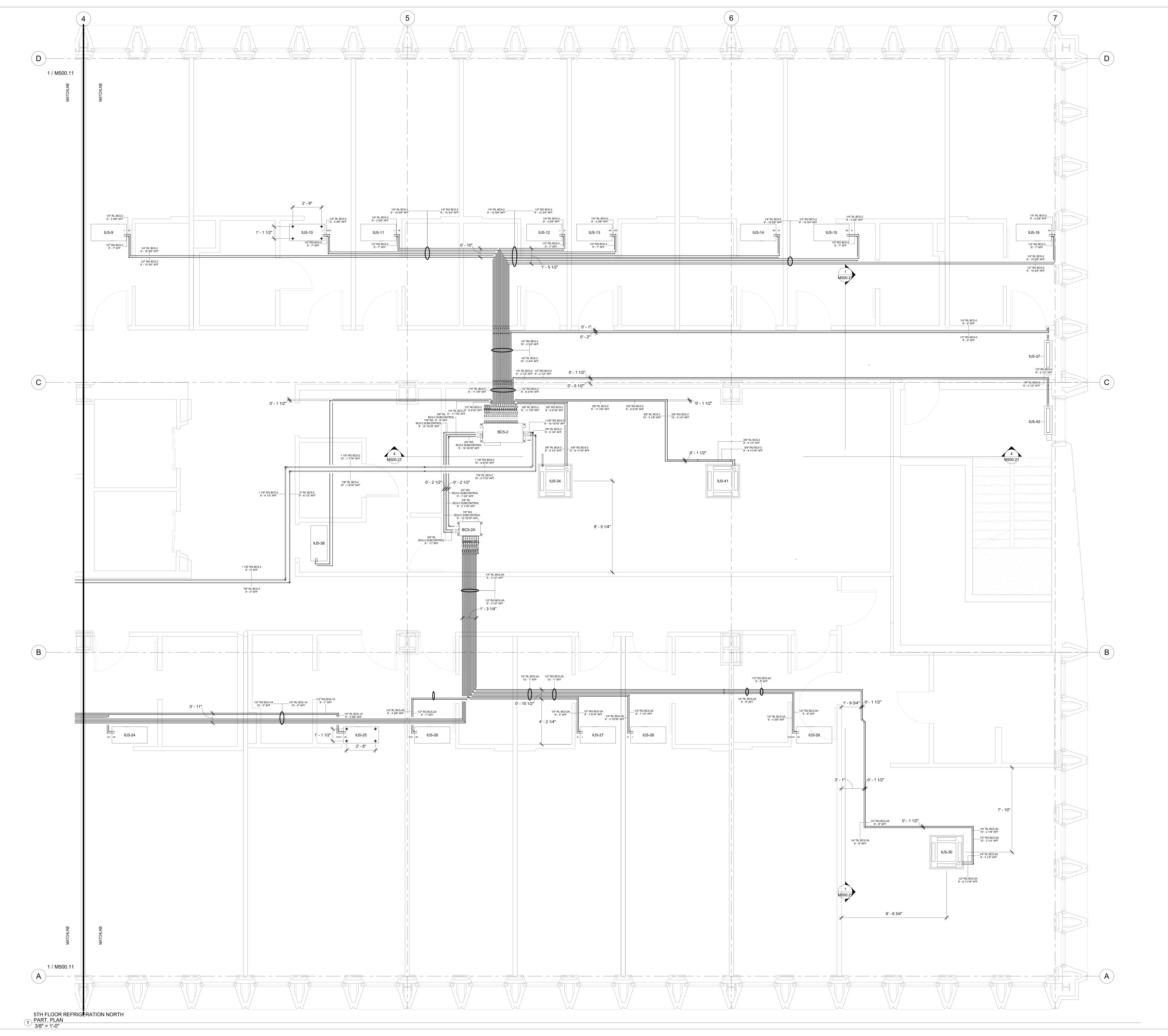
No.	Description	Date
)	AS-BUILT	6/20/2022

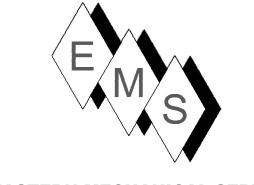
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

FIFTH FLOOR SOUTH HVAC PART. PLAN

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





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 N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION DED SUBMITTAL DATA.

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

No. Description Date

O AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

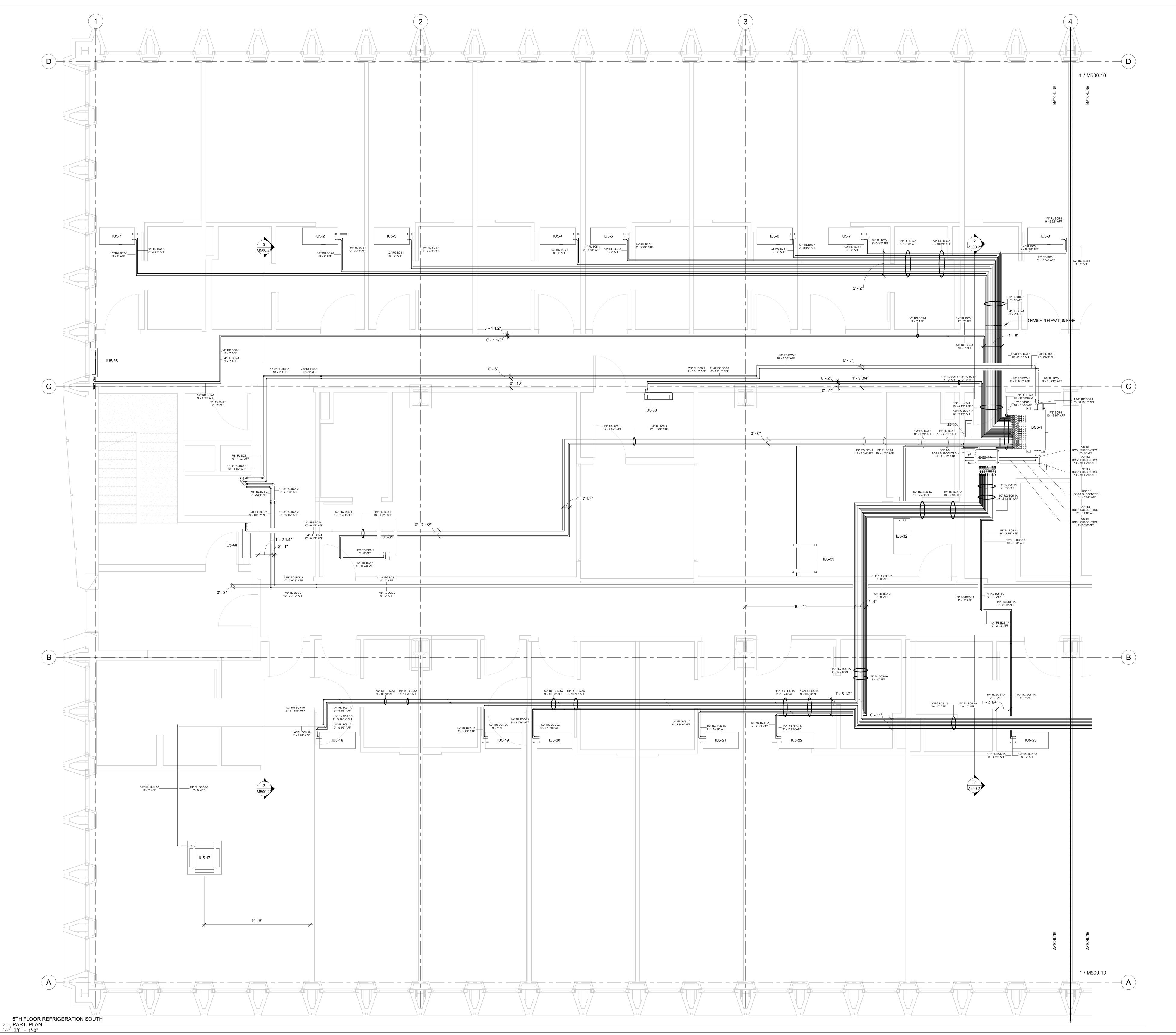
FIFTH FLOOR NORTH REFRIG. PIPING PART. PLAN

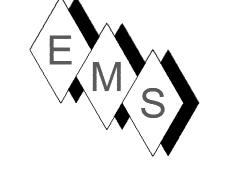
 Project Number
 5072

 Date
 12/15/20

 Drawn By
 TH

 Checked By
 SC





PLAN NORTH ---

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.

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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 N2 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 REFRIG. PIPING PART. PLAN

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

	EL 5 BC5-1 TO OL	1
DESCRIPTION	DIAMETER	LENGTH
OU5-1 GAS LINE	1 1/8"	187' - 9 1/4"
OU5-1 LIQUID LINE	7/8"	190' - 5 5/8"
Grand total: 54		378' - 2 7/8"
O. G		J. J

LEVEL 5 BC5-2 TO OU5-2 MAINS			
DESCRIPTION	DIAMETER	LENGTH	
OU5-2 GAS LINE	1 1/8"	244' - 5 1/16"	
OU5-2 GAS LINE	1 3/8"	0' - 2 1/2"	
OU5-2 LIQUID LINE	7/8"	246' - 1 1/16"	
OU5-2 LIQUID LINE	1 3/8"	0' - 2 7/16"	
Grand total: 70		490' - 11 1/16"	

Grand total: 70		490 - 11 1/	10
LEV	/EL 5 BC5-1 REFRIG	ERATION PI	PING
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
BC5-1	IU5-1 GAS LINE	1/2"	99' - 2 7/16"
BC5-1	IU5-1 LIQUID LINE	1/4"	100' - 4 1/8"
BC5-1	IU5-2 GAS LINE	1/2"	80' - 7 3/16"
BC5-1	IU5-2 LIQUID LINE	1/4"	81' - 5 9/16"
BC5-1	IU5-3 GAS LINE	1/2"	73' - 10 13/16"
BC5-1	IU5-3 LIQUID LINE	1/4"	74' - 7 7/8"
BC5-1	IU5-4 GAS LINE	1/2"	57' - 10 3/8"
BC5-1	IU5-4 LIQUID LINE	1/4"	59' - 1 3/8"
BC5-1	IU5-5 GAS LINE	1/2"	53' - 0 9/16"
BC5-1	IU5-5 LIQUID LINE	1/4"	54' - 3 1/16"
BC5-1	IU5-6 GAS LINE	1/2"	37' - 6 1/8"
BC5-1	IU5-6 LIQUID LINE	1/4"	38' - 8 5/8"
BC5-1	IU5-7 GAS LINE	1/2"	31' - 1 3/16"
BC5-1	IU5-7 LIQUID LINE	1/4"	31' - 10 7/8"
BC5-1	IU5-8 GAS LINE	1/2"	24' - 1 9/16"
BC5-1	IU5-8 LIQUID LINE	1/4"	25' - 6"
BC5-1	IU5-31 GAS LINE	1/2"	78' - 3 1/16"
BC5-1	IU5-31 LIQUID LINE	1/4"	78' - 8 1/4"
BC5-1	IU5-32 GAS LINE	1/2"	17' - 8 7/16"
BC5-1	IU5-32 LIQUID LINE	1/4"	18' - 0 3/8"
BC5-1	IU5-33 GAS LINE	1/2"	42' - 1 7/8"
BC5-1	IU5-33 LIQUID LINE	1/4"	42' - 9 1/8"
BC5-1	IU5-35 GAS LINE	1/2"	8' - 4 1/8"
BC5-1	IU5-35 LIQUID LINE	1/4"	8' - 5 1/2"
BC5-1	IU5-36 GAS LINE	1/2"	108' - 9 9/16"
BC5-1	IU5-36 LIQUID LINE	1/4"	109' - 0 1/4"
BC5-1	IU5-39 GAS LINE	1/2"	33' - 10 7/16"
BC5-1	IU5-39 LIQUID LINE	1/4"	33' - 10 11/16"

IU5-40 LIQUID LINE 1/4"

Grand total: 221

89' - 4 9/16" 89' - 10 3/4"

1682' - 6 13/16"

LE	VEL 5 BC5-2 REFRIGE	RATION PIF	PING
BC Controller	Piping Description	Diameter	Length
BC5-2	IU5-9 GAS LINE	1/2"	50' - 10 7/16"
BC5-2	IU5-9 LIQUID LINE	1/4"	51' - 2 1/2"
BC5-2	IU5-10 GAS LINE	1/2"	32' - 7 5/8"
BC5-2	IU5-10 LIQUID LINE	1/4"	33' - 0 1/8"
BC5-2	IU5-11 GAS LINE	1/2"	26' - 3 3/16"
BC5-2	IU5-11 LIQUID LINE	1/4"	26' - 7 1/4"
BC5-2	IU5-12 GAS LINE	1/2"	22' - 9 3/16"
BC5-2	IU5-12 LIQUID LINE	1/4"	23' - 7"
BC5-2	IU5-13 GAS LINE	1/2"	27' - 4 5/8"
BC5-2	IU5-13 LIQUID LINE	1/4"	28' - 2 3/8"
BC5-2	IU5-14 GAS LINE	1/2"	42' - 3 1/2"
BC5-2	IU5-14 LIQUID LINE	1/4"	43' - 1 7/16"
BC5-2	IU5-15 GAS LINE	1/2"	50' - 0 3/16"
BC5-2	IU5-15 LIQUID LINE	1/4"	50' - 10 1/16"
BC5-2	IU5-16 GAS LINE	1/2"	67' - 4 1/2"
BC5-2	IU5-16 LIQUID LINE	1/4"	68' - 2 7/16"
BC5-2	IU5-34 GAS LINE	5/8"	11' - 3 5/16"
BC5-2	IU5-34 LIQUID LINE	3/8"	10' - 11 1/4"
BC5-2	IU5-37 GAS LINE	1/2"	66' - 6 13/16"
BC5-2	IU5-37 LIQUID LINE	1/4"	66' - 5 1/2"
BC5-2	IU5-38 GAS LINE	1/2"	33' - 1 13/16"
BC5-2	IU5-38 LIQUID LINE	1/4"	33' - 8 5/8"
BC5-2	IU5-41 LIQUID LINE	3/8"	27' - 11 7/16"
BC5-2	IU5-41GAS LINE	5/8"	28' - 7 3/16"
BC5-2	IU5-42 GAS LINE	1/2"	62' - 10 9/16"
BC5-2	IU5-42 LIQUID LINE	1/4"	62' - 9 9/16"
Grand total: 22	5		1048' - 8 9/16'

BC Controller	Description	Diameter	Length
BC5-1A	IU5-17 GAS LINE	1/2"	110' - 6 5/8"
BC5-1A	IU5-17 LIQUID LINE	1/4"	110' - 9 15/16
BC5-1A	IU5-18 GAS LINE	1/2"	86' - 11 7/8"
BC5-1A	IU5-18 LIQUID LINE	1/4"	88' - 2 5/16"
BC5-1A	IU5-21 GAS LINE	1/2"	52' - 6 9/16"
BC5-1A	IU5-21 LIQUID LINE	1/4"	53' - 8 11/16"
BC5-1A	IU5-22 GAS LINE	1/2"	45' - 7 1/4"
BC5-1A	IU5-22 LIQUID LINE	1/4"	46' - 2 7/8"
BC5-1A	IU5-23 GAS LINE	1/2"	30' - 2 1/2"
BC5-1A	IU5-23 LIQUID LINE	1/4"	30' - 8 5/8"
BC5-1A	IU5-24 GAS LINE	1/2"	59' - 9 11/16"
BC5-1A	IU5-24 LIQUID LINE	1/4"	60' - 4"
BC5-1A	IU5-25 GAS LINE	1/2"	80' - 11 1/2"
BC5-1A	IU5-25 LIQUID LINE	1/4"	81' - 6 3/4"

BC Controller	Piping Description	Diameter	Length
		_	
BC5-2A	IU5-19 GAS LINE	1/2"	109' - 8 15/16
BC5-2A	IU5-19 LIQUID LINE	1/4"	112' - 4 1/8"
BC5-2A	IU5-20 GAS LINE	1/2"	105' - 9 3/8"
BC5-2A	IU5-20 LIQUID LINE	1/4"	108' - 0 15/16
BC5-2A	IU5-26 GAS LINE	1/2"	21' - 11 3/8"
BC5-2A	IU5-26 LIQUID LINE	1/4"	24' - 6 11/16"
BC5-2A	IU5-27 GAS LINE	1/2"	27' - 9 1/8"
BC5-2A	IU5-27 LIQUID LINE	1/4"	29' - 9 9/16"
BC5-2A	IU5-28 GAS LINE	1/2"	32' - 3 5/16"
BC5-2A	IU5-28 LIQUID LINE	1/4"	34' - 3 7/16"
BC5-2A	IU5-29 GAS LINE	1/2"	47' - 6 3/4"
BC5-2A	IU5-29 LIQUID LINE	1/4"	48' - 11 13/16
BC5-2A	IU5-30 GAS LINE	1/2"	77' - 7 1/16"
BC5-2A	IU5-30 LIQUID LINE	1/4"	78' - 8 1/16"
Grand total: 124	 	-1	859' - 4 1/2"

		BC5-1 CONNECTED UNITS
INDOOR UNIT	BC CONTROLLER DESCRIPTION	
IU5-1	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-2	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-3	BC5-1	AC-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series(th): 6000 Btu/h
IU5-4	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-5	BC5-1	AC-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series(th): 6000 Btu/h
IU5-6	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-7	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-8	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-31	BC5-1	AC-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series(th): 6000 Btu/h
IU5-32	BC5-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-33	BC5-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E
IU5-35	BC5-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E
IU5-40	BC5-1	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2

		BC5-2 CONNECTED UNITS
INDOOR UNIT	BC CONTROL LER	DESCRIPTION
IU5-9	BC5-2	Air Canditionar Mitsubishi, Floatria Cailing, Pagassad PMEV, Sarias: 9000 Ptu/h
		Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-10	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-11	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-12	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-13	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-14	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-15	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-16	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 15000 Btu/h
IU5-34	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 24000 Btu/h
IU5-37	BC5-2	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2
IU5-38	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-41	BC5-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 24000 Btu/h
IU5-42	BC5-2	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2

		BC5-1A CONNECTED UNITS		
INDOOR UNIT	BC CONTROLLER			
IU5-17	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 18000 Btu/h		
IU5-18	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
IU5-19	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
IU5-20	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
IU5-21	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
IU5-22	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h		
IU5-23	BC5-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h		

BC5-2A CONNECTED UNITS

INDOOR	ВС	
UNIT	CONTROLLER	DESCRIPTION
IU5-24	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-25	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU5-26	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-27	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-28	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-29	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU5-30	BC5-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 18000 Btu/h

BC Controller	Piping Description	Diameter	Length
	1 0 1		
BC5-2A	IU5-19 GAS LINE	1/2"	109' - 8 15/16"
BC5-2A	IU5-19 LIQUID LINE	1/4"	112' - 4 1/8"
BC5-2A	IU5-20 GAS LINE	1/2"	105' - 9 3/8"
BC5-2A	IU5-20 LIQUID LINE	1/4"	108' - 0 15/16"
BC5-2A	IU5-26 GAS LINE	1/2"	21' - 11 3/8"
BC5-2A	IU5-26 LIQUID LINE	1/4"	24' - 6 11/16"
BC5-2A	IU5-27 GAS LINE	1/2"	27' - 9 1/8"
BC5-2A	IU5-27 LIQUID LINE	1/4"	29' - 9 9/16"
BC5-2A	IU5-28 GAS LINE	1/2"	32' - 3 5/16"
BC5-2A	IU5-28 LIQUID LINE	1/4"	34' - 3 7/16"
BC5-2A	IU5-29 GAS LINE	1/2"	47' - 6 3/4"
BC5-2A	IU5-29 LIQUID LINE	1/4"	48' - 11 13/16"
DOU 21 (100 20 EIQOID EIIVE	17 =	15 11 10

		I			
BC5-2A	IU5-30 GAS LINE 1/2"	77' - 7 1/16"			
BC5-2A	IU5-30 LIQUID LINE 1/4"	78' - 8 1/16"			
Grand total: 12	24	859' - 4 1/2"	-		
			LEVEL 5 DUCT ACCES	SSORIES	
Mark	Manufacturer		Description	Nominal Size	Comme
FD-1.5-1	Croophook Fan Corporatio	ESD 211 Cla	oca I Cambination Fire Smake Damner	14v10	L=16" VIF ACTUATOR LEFT HAND
	Greenheck Fan Corporatio		ass I Combination Fire Smoke Damper	14x10	
FD-1.5-2	Greenheck Fan Corporatio		ass I Combination Fire Smoke Damper	14x12	L=16" VIF ACTUATOR RIGHT HAND
FD-1.5-3	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper	8X8	L=16" VIF ACTUATOR LEFT HAND
FD-1.5-4	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper	12X12	L=20" VIF ACTUATOR RIGHT HAND
FD-1.5-5	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper	10X10	L=20" VIF ACTUATOR RIGHT HAND
FD-1.5-6	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper	10X8	L=20" VIF ACTUATOR RIGHT HAND
FD-1.5-7	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper	14x12	L=20" VIF ACTUATOR RIGHT HAND
FD-1.5-8	Greenheck Fan Corporatio	n FSD-311 Cla	ass I Combination Fire Smoke Damper		L=14" VIF ACTUATOR RIGHT HAND
IU1-31	-31 Greenheck Fan Corporation SMDF		Class I Round Smoke Damper		
IU1-32	1-32 Greenheck Fan Corporation SM		Class I Round Smoke Damper		
SD-1	Greenheck Fan Corporatio	n Smoke Dam	per		
SD-1	Greenheck Fan Corporatio	n Smoke Dam	per		

1 5TH FLOOR DUCTS

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	
IU5-1	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-2	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-3	Mitsubishi Electric	PMFY-P06NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h	
IU5-4	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-5	Mitsubishi Electric	PMFY-P06NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h	
IU5-6	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-7	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-8	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-9	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-10	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-11	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-12	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-13	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-14	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
U5-15	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
U5-16	Mitsubishi Electric	PMFY-P15NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 15000 Btu/h	
IU5-17	Mitsubishi Electric	PLFY-EP18NEMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU5-18	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-19	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-20	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-21	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
U5-22	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-23	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
U5-24	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
U5-25	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-26	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
U5-27	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
U5-28	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-29	Mitsubishi Electric	PMFY-P08NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h	
IU5-30	Mitsubishi Electric	PLFY-EP18NEMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h	
IU5-31	Mitsubishi Electric	PMFY-P06NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h	
U5-32	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-33	Mitsubishi Electric	PKFY-P06NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU5-34	Mitsubishi Electric	PLFY-EP24NEMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 24000 Btu/h	
IU5-35	Mitsubishi Electric	PKFY-P06NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h	
IU5-36	Mitsubishi Electric	PFFY-P12NRMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h	
IU5-37	Mitsubishi Electric	PFFY-P12NRMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h	
IU5-38	Mitsubishi Electric	PMFY-P12NBMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h	
IU5-39	Mitsubishi Electric	PEFY-P12NMAU-E3	5TH FLOOR	Air Conditioner Mitsubishi Electric Ducted PEFY Series 12000 Btu/h	
IU5-40	Mitsubishi Electric	PFFY-P12NRMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h	
IU5-41	Mitsubishi Electric	PLFY-EP24NEMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 24000 Btu/h	
IU5-42	Mitsubishi Electric	PFFY-P12NRMU-E	5TH FLOOR	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY 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
VS5-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	335 CFM
VS5-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	410 CFM
VS5-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-6"ø	320 CFM
VS5-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	440 CFM
VS5-05	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	365 CFM
VS5-05A	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	275 CFM

2 5TH FLOOR REFRIG PIPING

	LEVI	EL 5 EXHAUST F	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 630-1-2 Alum Return Grille
DD-502	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-532	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-528	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-524	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-H005	30 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-518	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-519	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-520	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-521	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-512	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-511	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-510	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-509	40 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-501	45 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-530	50 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-506	50 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-525	50 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-515	55 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-C2/522	55 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-C2/516	55 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-517	65 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-514	65 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-513	65 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-05C	65 CFM	5TH FLOOR	Price Model AMD
DD-05A	65 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-WC5	70 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-523	75 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-051	75 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
DD-508	75 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
NN-F005	260 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille
NN-F005	400 CFM	5TH FLOOR	Price 630-1-2 Alum Return Grille

LEVEL 5 FRESH AIR RGD SCHEDULE						
Mark	Actual Supply Air Flow Level				Description	
D-523	50 CFM	5TH FLOOR		Price Mode	el AMD	
D-508	50 CFM	5TH FLOC)R	Price Mode	ce Model AMD	
D-WC5	40 CFM	5TH FLOC)R	Price Mode	el AMD	
G-05B	200 CFM	5TH FLOC)R	Price Mode	el AMD	
G-05A	120 CFM	5TH FLOC)R	Price Mode	el AMD	
Г 05А	193 CFM	5TH FLOOR				
Г 05А	192 CFMLEVEL 55百克5万LSQBCC		聚OV	TROLLER	LINES	
RR 05A	192 CFM	5TH FLOC	R _	· 4	141-	
RR 05A	Description 193 CFM	5TH FLOC)R	iameter	Length	
9						<u> </u>
SC5-1 SUBCONTROL LIQUID LINE 3					8' - 10 1/2"	
BC5-1 SUBCONTROL GAS LINE					9' - 0 1/2"	
BC5-1 SUBCONTROL GAS LINE			7/8"		8' - 5 15/16"	
Grand total: 16					26' - 5"	
LEVEL 5 BC52 SUBCONTROLLER LINES						

	' ' -	
Grand total: 16	'	26' - 5"
LEVEL 5 BC52	SUBCONTROLLER	LINES
Description	Diameter	Length
BC5-2 SUBCONTROL LIQUID LINE	3/8"	13' - 11 1/2"
BC5-2 SUBCONTROL GAS LINE	3/4"	11' - 4 11/16"
BC5-2 SUBCONTROL GAS LINE	7/8"	13' - 2 9/16"
Grand total: 12		38' - 6 3/4"

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

EASTERN MECHANICAL SERVICES

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

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

2) DUCT STANDARDS ARE PER THE APPROVED SMACNA STANDARDS. DUE TO THE TIGHTNESS OF THIS PROJECT OUR ELBOWS ARE NOT

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 N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

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

A 1.5 X DIA. RADIUS, THEY ARE 1.0 X DIA. RADIUS BEND.

THE VRF SYSTEM.

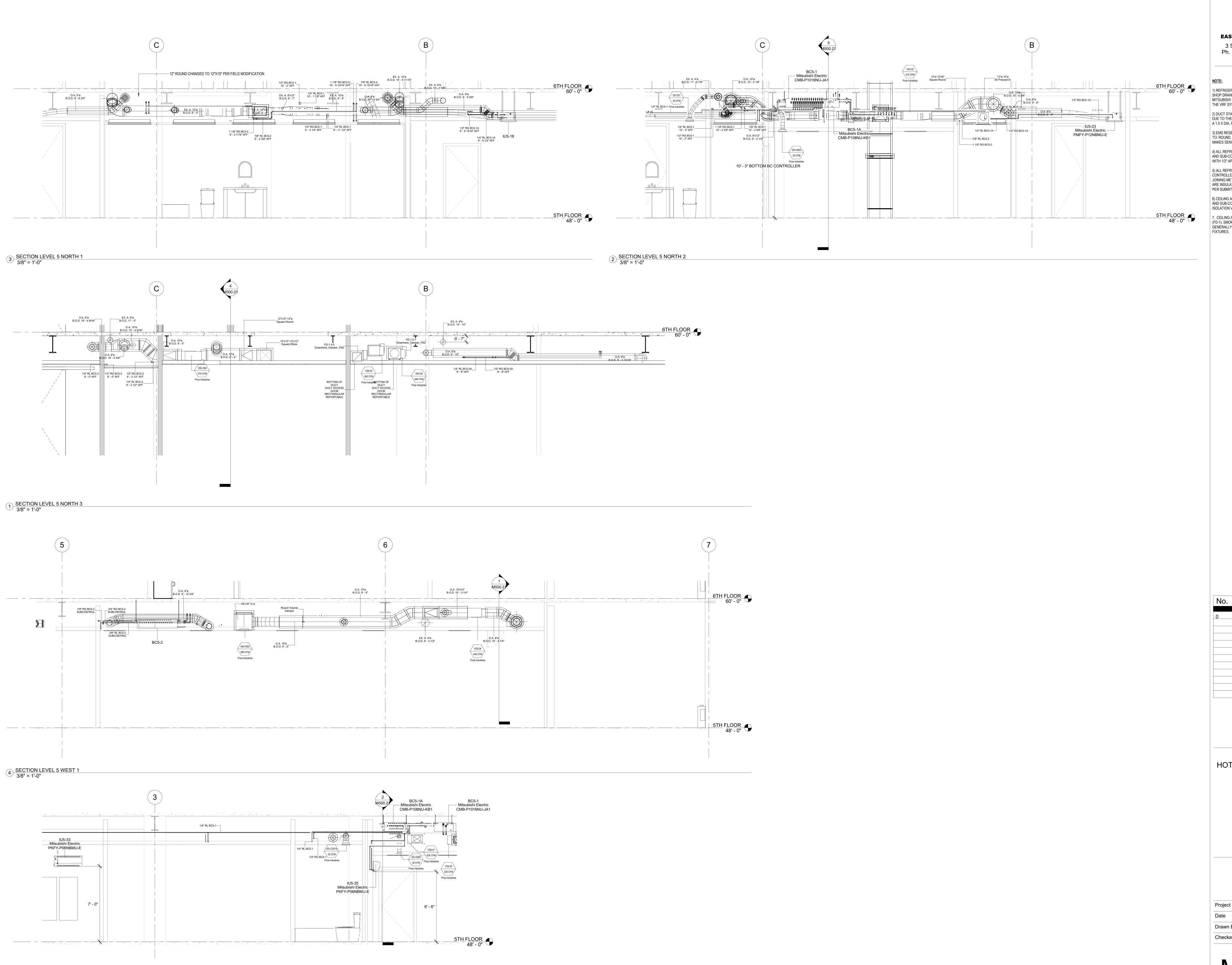
PER SUBMITTAL DATA.

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

ISO VIEWS & SCHEDULES

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



5 M Section 46 3/8" = 1'-0" STERN MECHANICAL SERVICE

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

IOTE:
) REFRIGERATION PIPING SIZES A
SHOP DRAWING AND ON PIPING S

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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 N2 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

O AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SECTION VIEWS

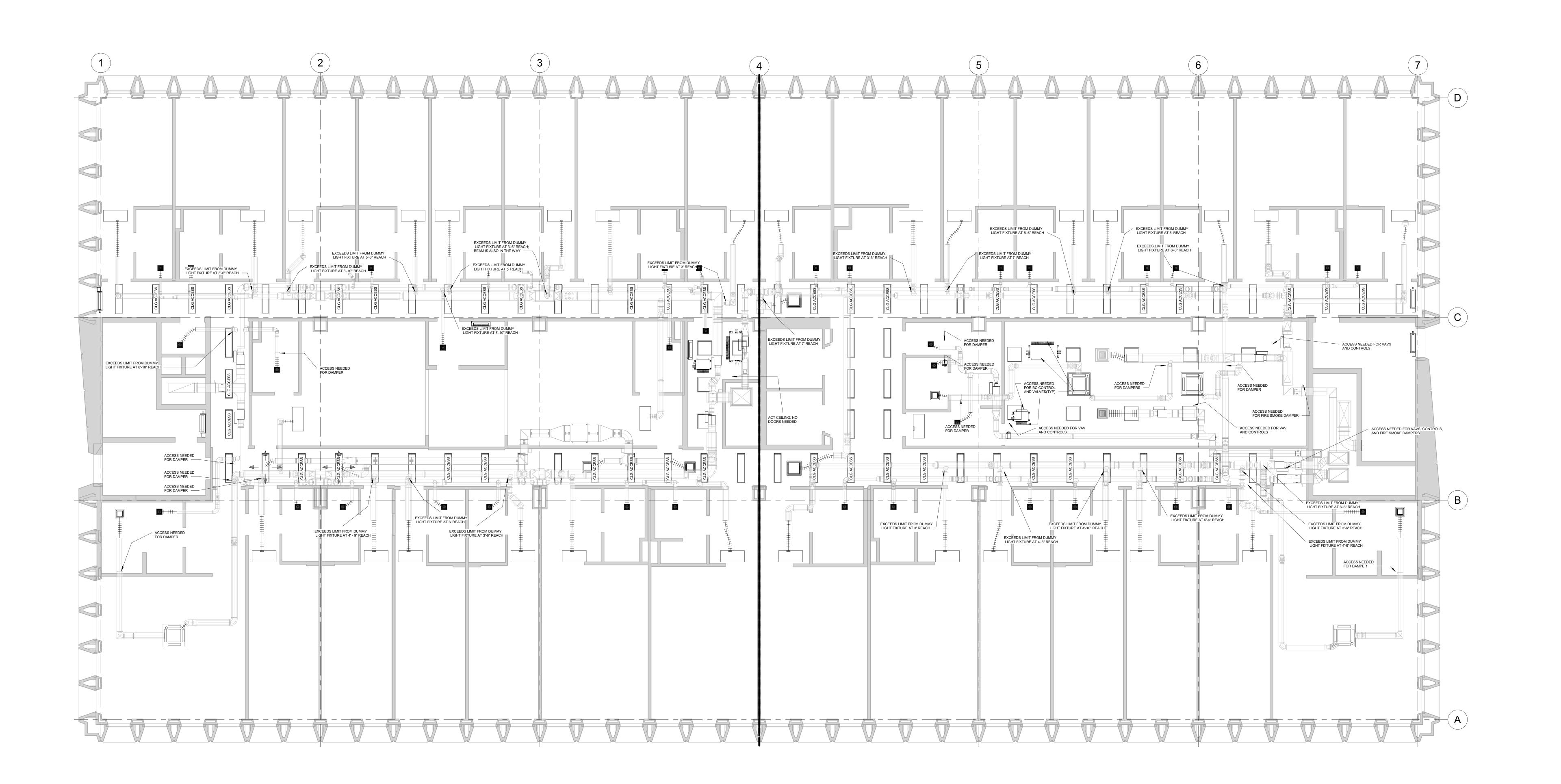
 Project Number
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 Date
 12/15/20

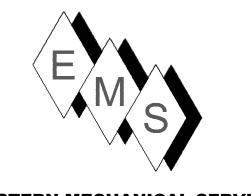
 Drawn By
 TH

 Checked By
 SC

M500 21



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



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NC

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.

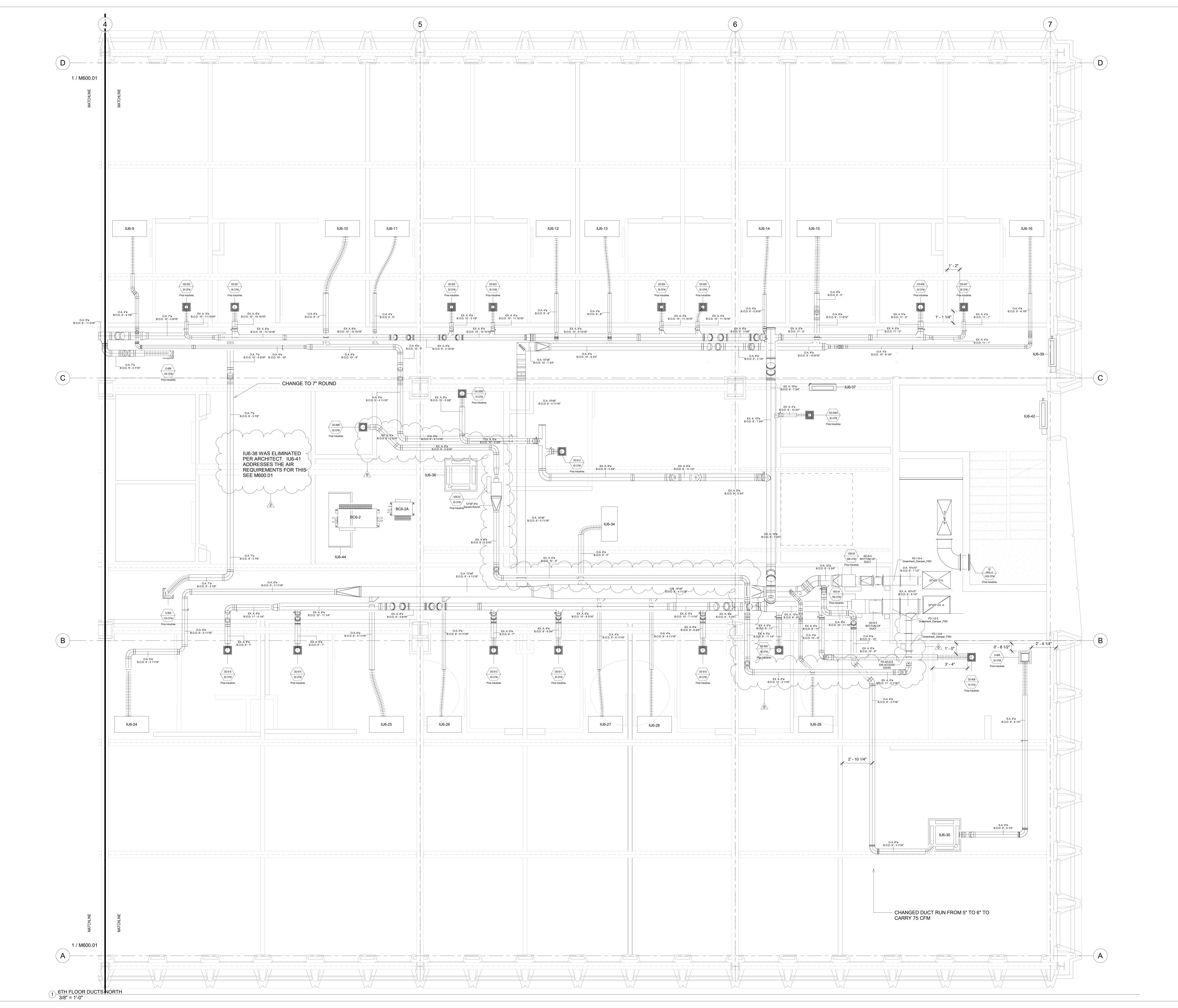
6/20/2022 10/28/2022
10/28/2022

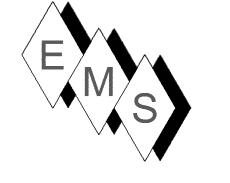
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

CEILING ACCESS POINTS

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





PLAN NORTH ---

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.

THE VRF SYSTEM.

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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 N2 PURGE AND BRAZED JOINTS. ALL MAINS

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GENERALLY, ACCESS IS THROUGH ACTIVE AND INACTIVE LIGHT FIXTURES.

ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

PER SUBMITTAL DATA.

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

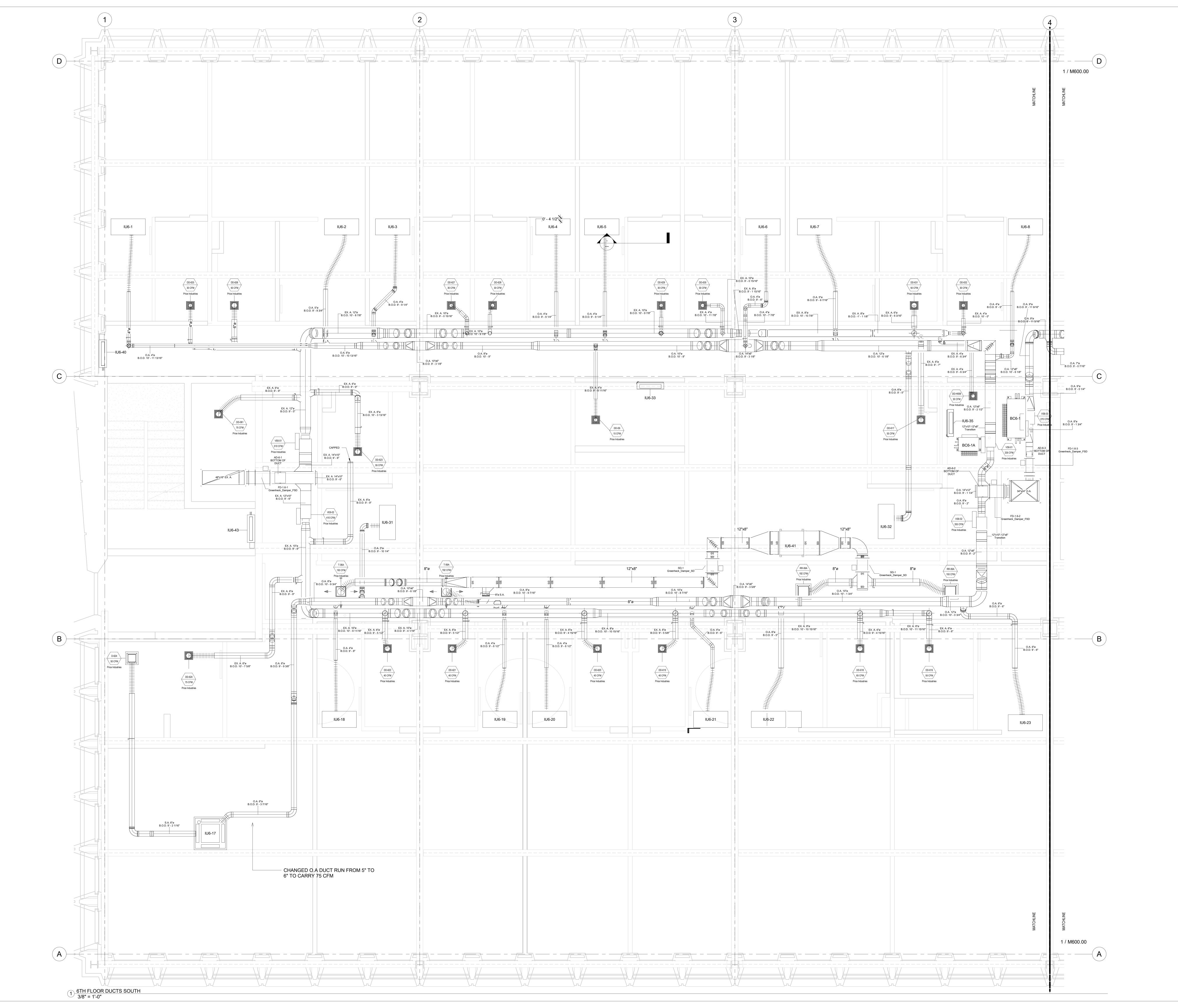
HOTEL MARCELL BY HILTON

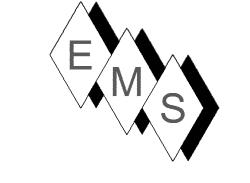
PIRELLI HOTEL

SIXTH FLOOR NORTH HVAC PART. PLAN

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

M600.00





PLAN NORTH →

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PER SUBMITTAL DATA.

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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

O AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SIXTH FLOOR SOUTH HVAC PART PLAN

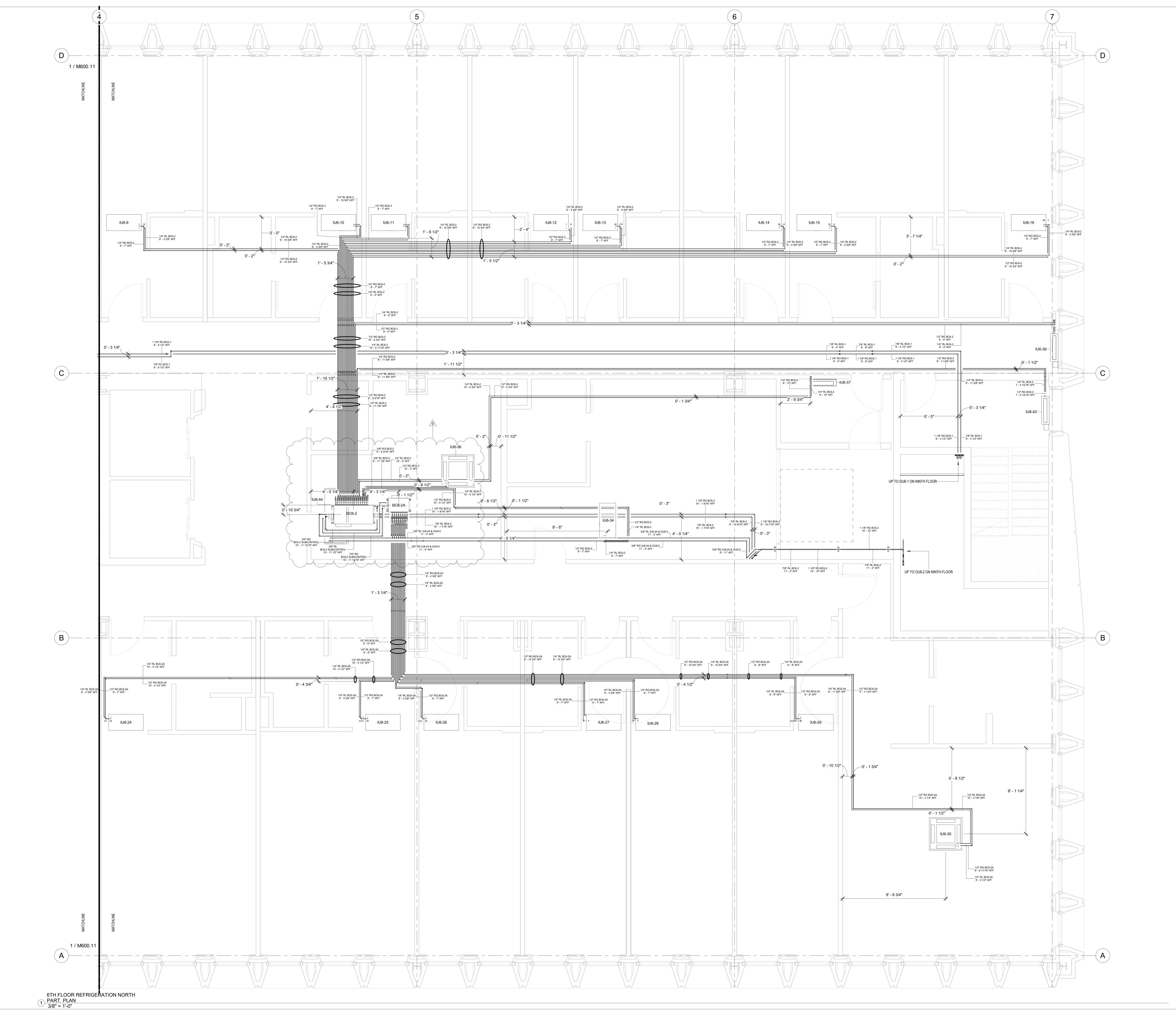
 Project Number
 5072

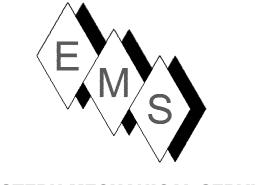
 Date
 12/15/20

 Drawn By
 TH

 Checked By
 SC

1600 01





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.

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 N2 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

Change VRF Units Add 3/8/2021
IU6-44

AS-BUILT 6/20/2022

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

V1600 10



E M S

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 LINITS ARE INSULATED.

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 N2 PURGE AND BRAZED JOINTS. ALL MAINS

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

ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

No. Description Date

O 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

4600 11

DESCRIPTION OU6-1 GAS LIN OU6-1 LIQUID LIC Grand total: 32 DESCRIPTION OU6-2 GAS LIN OU6-2 LIQUID LIC	E INE	L 6 BC6-1 TO 6 DIAMETER 1 1/8" 7/8"			ENGTH
OU6-1 GAS LIN OU6-1 LIQUID L Grand total: 32 DESCRIPTI OU6-2 GAS LIN	E .INE LEVE	1 1/8"		L	LINGIII
OU6-1 LIQUID L Grand total: 32 DESCRIPTIOU6-2 GAS LIN	LEVE				
Grand total: 32 DESCRIPTI OU6-2 GAS LIN	LEVE	7/8"		172' - 9 1/	16"
DESCRIPTION OU6-2 GAS LIN				173' - 8 3/	4"
OU6-2 GAS LIN				346' - 5 13	3/16"
OU6-2 GAS LIN	<u> </u>	L 6 BC6-2 TO (OU	6-2 MAINS	3
OU6-2 GAS LIN	()N	DIAMETER	?		_ENGTH
		<i>DII</i> 11112121	•		
OU6-2 LIQUID L	E	1 1/8"		128' - 5 1	/16"
One is all testals, 00	INE	7/8"		130' - 2 7	
Grand total: 28				258' - 7 1	12"
LEV	/EL 6 I	BC6-1 REFRIG	ER	ATION PI	PING
BC		0001071011			. =
CONTROLLER	DE	SCRIPTION	D	IAMETER	LENGTH
BC6-1	IU6-1	GAS LINE	1/:	2"	99' - 3 9/16"
BC6-1		LIQUID LINE	1/4		100' - 5 1/4"
BC6-1		GAS LINE	1/2	2"	79' - 1 5/16"
BC6-1		LIQUID LINE	_	4"	79' - 11 11/16"
BC6-1		GAS LINE		2"	73' - 9 11/16"
BC6-1		LIQUID LINE		4"	74' - 11"
BC6-1		GAS LINE		2"	58' - 2 1/2"
BC6-1 BC6-1		GAS LINE		4" 2"	59' - 5 1/2" 53' - 4 11/16"
BC6-1		LIQUID LINE		<u>~</u> 4"	54' - 7 3/16"
BC6-1		GAS LINE		<u>*</u> 2"	37' - 10 1/4"
BC6-1		LIQUID LINE		 4"	38' - 8"
BC6-1	IU6-7	GAS LINE	1/2	2"	33' - 1 1/2"
BC6-1	IU6-7	LIQUID LINE		4"	33' - 11"
BC6-1		GAS LINE		2"	24' - 0 3/4"
BC6-1		LIQUID LINE		4"	25' - 6"
BC6-1		1 GAS LINE		2"	69' - 2 3/8"
BC6-1 BC6-1		1 LIQUID LINE 2 GAS LINE		4" 2"	68' - 11 1/8" 17' - 8 7/16"
BC6-1		2 LIQUID LINE		<u>~</u> 4"	18' - 0 3/8"
BC6-1		3 GAS LINE		z"	41' - 4 11/16"
BC6-1		3 LIQUID LINE		4"	41' - 4 9/16"
BC6-1	IU6-3	5 GAS LINE	1/2	2"	7' - 5 1/4"
BC6-1		5 LIQUID LINE		4"	7' - 5 5/8"
BC6-1		0 GAS LINE		2"	102' - 6 15/16"
BC6-1		0 LIQUID LINE		4"	103' - 0 7/8"
BC6-1 BC6-1		1 GAS LINE 1 LIQUID LINE		2" 4"	40' - 9 1/8" 41' - 4 3/4"
BC6-1		3 GAS LINE	1/2		93' - 9 7/16"
BC6-1		3 LIQUID LINE			94' - 2 15/16"
Grand total: 211					1673' - 8 3/8"
LEVE	EL 6 B	C6-1A REFRIG	ER	ATION PI	PING
BC Controller		Description		Diameter	Length
DC6 4 A	11.10.4	7 () () () ()		1/0"	110' 6 5 /0"
BC6-1A BC6-1A		7 GAS LINE 7 LIQUID LINE			110' - 6 5/8" 110' - 1 1/4"
BC6-1A BC6-1A		7 LIQUID LINE 8 GAS LINE			87' - 0 7/8"
BC6-1A		8 LIQUID LINE			87' - 5 5/8"
BC6-1A		9 GAS LINE		-	71' - 8 1/8"
BC6-1A		9 LIQUID LINE			72' - 0 1/2"
BC6-1A		0 GAS LINE		1/2"	67' - 8 5/8"
BC6-1A		0 LIQUID LINE			68' - 1 3/4"
BC6-1A		1 GAS LINE			52' - 7 9/16"
BC6-1A		1 LIQUID LINE			52' - 11 15/16"
BC6-1A		2 GAS LINE			47' - 8 11/16"
BC6-1A		2 LIQUID LINE			47' - 9 5/16"
BC6-1A BC6-1A		3 GAS LINE 3 LIQUID LINE			34' - 5 3/4" 34' - 6 5/8"
Grand total: 155		O LIQUID LINE			34 - 6 5/8 944' - 11 3/16"

DO0-17	100-13 EIQUID EIIVE	1/ -	12 -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"
LEV	EL 6 OU9-5 REFRIGE	RATION PI	PING
IU & OU Tags	Piping Description	Diameter	Length
	1 0 1		
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"
LEV	EL 6 BC61 SUBCON	ROLLER L	INES
De	scription	Diameter	Length
	•		
BC6-1 SUBCON	ITROL LIQUID LINE	3/8"	8' - 10 1/2"
BC6-1 SUBCON	ITROL GAS LINE	3/4"	9' - 0 1/2"
BC6-1 SUBCON	ITROL GAS LINE	7/8"	8' - 5 15/16"
Grand total: 16	,		26' - 5"
LEV	EL 6 BC62 SUBCON	ΓROLLER L	INES
De	scription	Diameter	Length
		•	
BC6-2 SUBCON	ITROL LIQUID LINE	3/8"	11' - 11 3/16"
BC6-2 SUBCON	ITROL GAS LINE	3/4"	10' - 2 1/16"

BC6-2 SUBCONTROL GAS LINE 7/8"

34' - 6 1/8"

Grand total: 21

LE	EVEL 6 BC6-2 REFRIGE	RATION PIF	PING
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' - 11 3/4"
BC6-2	IU6-10 LIQUID LINE	1/4"	28' - 1 11/16"
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' - 1 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: 19	97		1430' - 3 5/8"
LE	VEL 6 BC6-2A REFRIG	ERATION PI	PING
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

BC6-2A

BC6-2A

BC6-2A

BC6-2A

Grand total: 173

IU6-26 GAS LINE

IU6-27 GAS LINE

IU6-28 GAS LINE

IU6-29 GAS LINE

IU6-30 GAS LINE

IU6-26 LIQUID LINE 1/4"

IU6-27 LIQUID LINE 1/4"

IU6-28 LIQUID LINE 1/4"

IU6-29 LIQUID LINE 1/4"

BC6-2A | IU6-30 LIQUID LINE | 1/4" | 88' - 0 1/8"

1/2"

1/2"

1/2"

22' - 10 1/8"

23' - 6 3/4"

37' - 8 1/8"

42' - 5 1/2"

43' - 7 3/4"

59' - 5"

87' - 4 13/16"

648' - 8 1/8"

39' - 1 3/16"

BC6-1A BC6-2 BC6-2A	Mitsubishi Electric	CMB-P108NU-KB1	M*(1:1:0 1 DO 0 1 H
BC6-2A	5 414 1 1 1 TO 1 4 1	OIVID-I TOOINO-IND I	Mitsubishi Sub-BC Controller
	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi BC Controller
110.4	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Sub-BC Controller
U6-1	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h
U6-2	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h
U6-3	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-4	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-5	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-6	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-7	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-8	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-9	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-10	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-11	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-12	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-13	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-14	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-15	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-16	Mitsubishi Electric	PMFY-P15NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 15000 Btu/h
U6-17	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h
U6-18	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-19	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-20	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-21	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-22	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h
U6-23	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-24	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-25	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-26	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-27	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-28	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-29	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-30	Mitsubishi Electric	PLFY-EP18NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 18000 Btu/h
U6-31	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-32	Mitsubishi Electric	PMFY-P08NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 8000 Btu/h
U6-33	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h
U6-34	Mitsubishi Electric	PMFY-P12NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 12000 Btu/h
U6-35	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PMFY Series 6000 Btu/h
U6-36	Mitsubishi Electric	PLFY-EP36NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 36000 Btu/h
U6-37	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h
U6-39	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
U6-40	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
U6-41	Mitsubishi Electric	PEFY-P12NMAU-E3	Air Conditioner Mitsubishi Electric Ducted PEFY Series 12000 Btu/h
U6-42	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
U6-43	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
U6-44	Mitsubishi Electric	PCA-A36KA7	Heat Pump Mitsubishi Electric Ceiling Suspended PCA -KA7 Series 36000 Btu/h

LEVEL 6 MITSUBISHI EQUIPMENT SCHEDULE

Comments

Manufacturer

			BC6-1 CONNECTED UNITS
	INDOOR UNIT	BC CONTROLLER	DESCRIPTION
	IU6-1	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMF
	IU6-2	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMF
	IU6-3	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 12000 Btu/h	IU6-4	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMF
FY Series 12000 Btu/h	IU6-5	BC6-1	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMF
FY Series 8000 Btu/h	IU6-6	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-7	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-8	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-31	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-33	BC6-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E
FY Series 8000 Btu/h	IU6-35	BC6-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E
FY Series 8000 Btu/h	IU6-43	BC6-1	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12I
FY Series 8000 Btu/h	_	1	
FY Series 8000 Btu/h	_		
FY Series 8000 Btu/h			
FY Series 8000 Btu/h	_		BC6-1A CONNECTED UNITS
FY Series 8000 Btu/h	INDOOD	D.O.	
FY Series 8000 Btu/h	INDOOR UNIT	BC CONTROLLER	DESCRIPTION
FY Series 15000 Btu/h	UNII	CONTROLLER	DESCRIPTION
Y-EP Series 18000 Btu/h	IU6-17	BC6-1A	Air_Conditioner-Mitsubishi Electric-Ceiling Recessed-PLF
FY Series 8000 Btu/h	IU6-18	BC6-1A	
FY Series 8000 Btu/h	IU6-19	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-20	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-21	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 12000 Btu/h			Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-22	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-23	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h	IU6-32	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMF
FY Series 8000 Btu/h			DOG 2 CONNICCTED LINITS
FY Series 8000 Btu/h			BC6-2 CONNECTED UNITS
FY Series 8000 Btu/h	INDOOR	ВС	
EV Sorios 8000 Btu/h	UNIT	CONTROLLER	DESCRIPTION

100 2 1	D00 1/1	7 til _Gorialioner Wildabishi_Electric Gelling_Recessed T Wil 1_Geries. 6000 Bla/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
IU6-32	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
		BC6-2 CONNECTED UNITS
INDOOR UNIT	BC CONTROLLER	DESCRIPTION
IU6-9	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-10	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-11	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-12	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-13	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-14	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-15	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-16	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 15000 Btu/h
IU6-34	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
IU6-36	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 36000 Btu/h
IU6-37	BC6-2	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E
IU6-42	BC6-2	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2

		BC6-2A CONNECTED UNITS
INDOOR UNIT	BC CONTROLLER	DESCRIPTION
IU6-24	BC6-2A	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMFY Series: 8000 Btu/h
IU6-25	BC6-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-26	BC6-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-27	BC6-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
IU6-28	BC6-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
100-20		
IU6-29	BC6-2A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h

106-30	BC6-2A	All_Condition	er-Mitsubishi_Electric-Celling	g_Recessed-PLF1_EP_Ser	ies: 18000 Blu	/N
			LEVEL 6 VAV SCHEDU	LE		
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
		T	T		T	T
RR-06A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	192 CFM
RR-06A	Price Industries	22 Series	22 Aluminum Grille - Double Deflection, 3/4" Spacing		8"ø	193 CFM
VE6-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	510 CFM
VE6-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	410 CFM
VE6-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-4"ø	50 CFM
VE6-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	16"x15"-12"ø	795 CFM
VS6-01	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	335 CFM
VS6-02	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	355 CFM
VS6-03	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	270 CFM
VS6-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	695 CFM

BC6-1 CONNECTED UNITS				
INDOOR	BC			
UNIT	CONTROLLER	DESCRIPTION		
J6-1	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h		
J6-2	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h		
J6-3	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-4	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-5	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-6	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-7	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-8	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-31	BC6-1	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
J6-33	BC6-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E		
J6-35	BC6-1	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E		
J6-43	BC6-1	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2		

		BC6-1A CONNECTED UNITS
INDOOR UNIT	BC CONTROLLER	DESCRIPTION
U6-17	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PLFY EP Series: 18000 Btu/h
U6-18	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
U6-19	BC6-1A	Air Conditioner-Mitsubishi Electric-Ceiling Recessed-PMFY Series: 8000 Btu/h
U6-20	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
U6-21	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
U6-22	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h
U6-23	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h
U6-32	BC6-1A	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h

106-32	BC6-1A AII_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h		
		BC6-2 CONNECTED UNITS	
INDOOR UNIT	BC CONTROLLER	DESCRIPTION	
IU6-9	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-10	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-11	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-12	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-13	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-14	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-15	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 8000 Btu/h	
IU6-16	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 15000 Btu/h	
IU6-34	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PMFY_Series: 12000 Btu/h	
IU6-36	BC6-2	Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 36000 Btu/h	
IU6-37	BC6-2	PKFY-P-NB-H-KMU-E_Wall_Mounted: PKFY-P06NBMU-E	
IU6-42	BC6-2	MITSUBISHI PFFY-P12NRMU-E1: MITSUBISHI PFFY-P12NRMU-E 2	

39		
LEV	EL 6 SUPPLY, RETURN ANI	O FRESH AIR RGDS
Mark	Actual Supply Air Flow	Manufacturer
D-624	50 CFM	Price Industries
D-608	50 CFM	Price Industries
G-06A	120 CFM	Price Industries
G-06B	150 CFM	Price Industries
T-06A	193 CFM	Price Industries
T-06A	192 CFM	Price Industries
RR-06A	192 CFM	Price Industries
RR-06A	193 CFM	Price Industries

LEVEL 6 EXHAUST RGD SCHEDULE

Level

6TH FLOOR Price Industries

6TH FLOOR Price Industries

6TH FLOOR Price Industries

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6TH FLOOR Price Industries

6TH FLOOR Price Industries

Manufacturer

Actual Return Air

Flow

15 CFM

30 CFM

30 CFM

30 CFM

30 CFM

30 CFM

40 CFM

45 CFM

50 CFM

70 CFM

75 CFM

75 CFM

75 CFM

DD-630

DD-H006

DD-628

DD-619

DD-620

DD-621

DD-622

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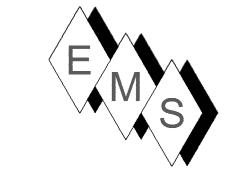
DD-614

DD-S062

DD-624

DD-061

DD-608



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

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 N2 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

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

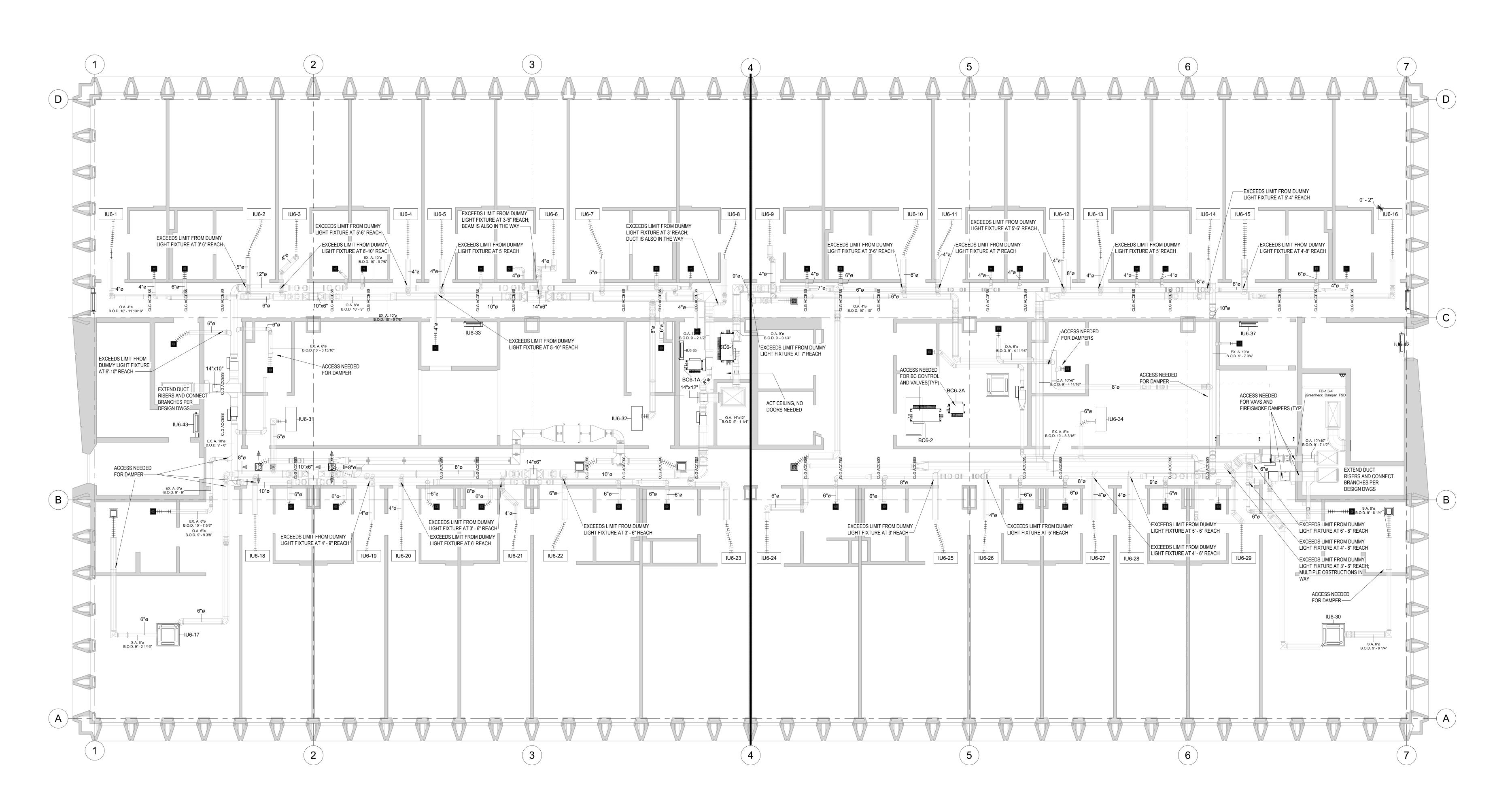
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

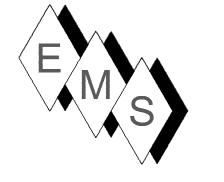
ISO VIEWS & SCHEDULES

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

	IU6-30 BC6-2A Air_Conditioner-Mitsubishi_Electric-Ceiling_Recessed-PLFY_EP_Series: 18000 Btu/h
	LEVEL 6 VAV SCHEDULE
	CONTROL
	MARK MANUFACTURER MODEL DESCRIPTION ORIENTATION SIZE FLOW
	RR-06A Price Industries 22 Series 22 Aluminum Grille - Double Deflection, 3/4" Spacing 8"ø 192 CFM
	RR-06A Price Industries 22 Series 22 Aluminum Grille - Double Deflection, 3/4" Spacing 8"ø 193 CFM
	VE6-01 Price Industries SDV5 Series Single Duct Terminal Unit Left Hand Control w/ PS 14"x12"-10"ø 510 CFM VE6-02 Price Industries SDV5 Series Single Duct Terminal Unit Left Hand Control w/ PS 12"x10"-8"ø 410 CFM
	VE6-03 Price Industries SDV5 Series Single Duct Terminal Unit Right Hand Control w/ PS 12"x8"-4"ø 50 CFM VE6-04 Price Industries SDV5 Series Single Duct Terminal Unit Right Hand Control w/ PS 16"x15"-12"ø 795 CFM
	VS6-01 Price Industries SDV5 Series Single Duct Terminal Unit Left Hand Control w/ PS 12"x10"-8"ø 335 CFM
	VS6-02 Price Industries SDV5 Series Single Duct Terminal Unit Right Hand Control w/ PS 12"x10"-8"ø 355 CFM
	VS6-03 Price Industries SDV5 Series Single Duct Terminal Unit Left Hand Control w/ PS 12"x10"-8"ø 270 CFM VS6-04 Price Industries SDV5 Series Single Duct Terminal Unit Left Hand Control w/ PS 14"x12"-10"ø 695 CFM
(), 6TH PLOOR DUCTS	



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



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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.

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

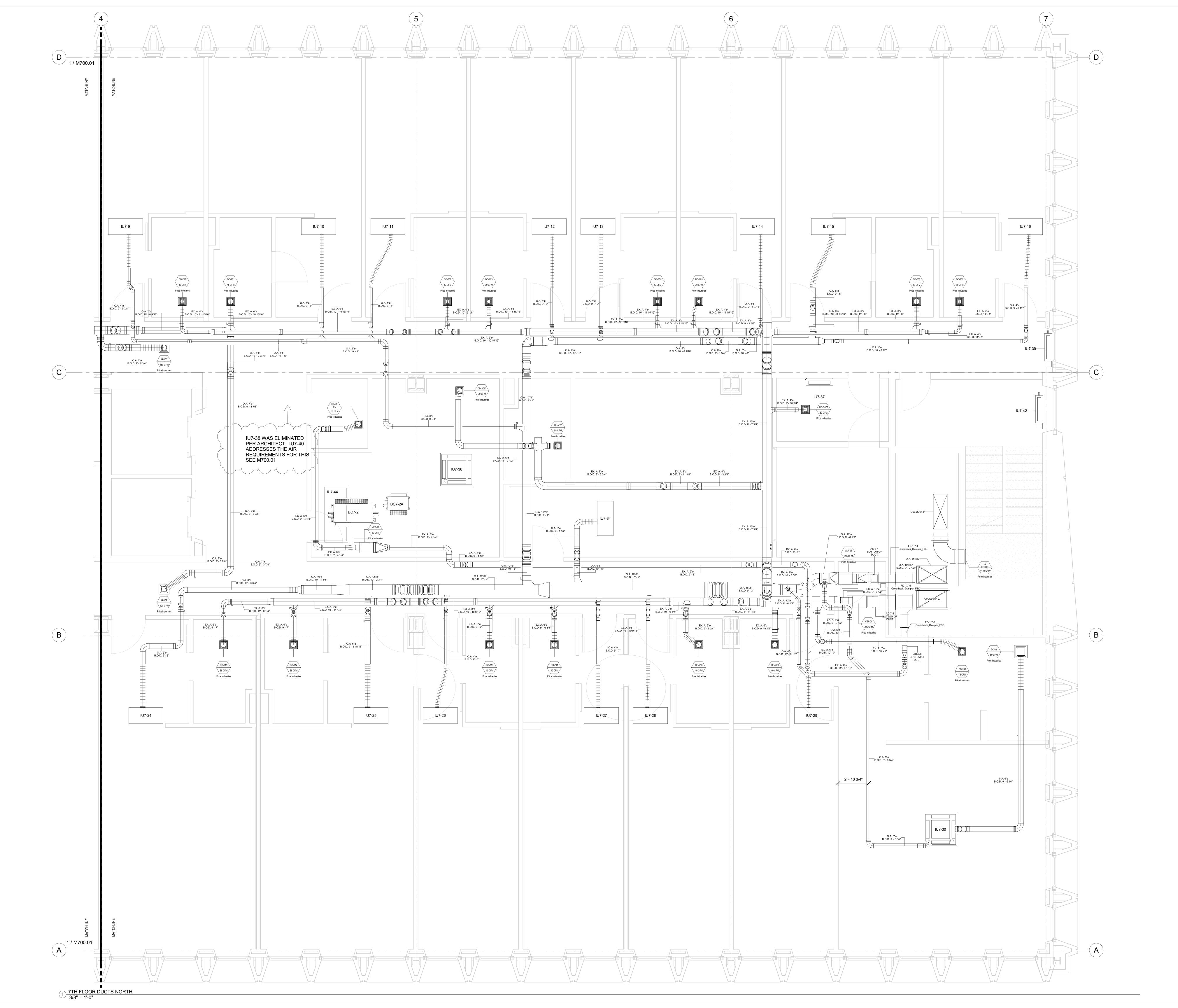
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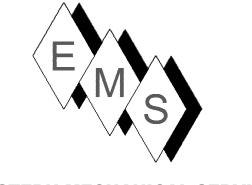
PIRELLI HOTEL

CEILING ACCESS POINTS

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

M600.30





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.

3) EMS RESERVES THE RIGHT TO CONVERT RECTANGULAR DUCTS

IN THE HALLWAYS TO OVAL EQUIVELENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS SHOP DRAWING DEPICTS RECTANGULAR DUCTS.

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 N2 PURGE AND BRAZED JOINTS. ALL MAINS
ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION
PER SUBMITTAL DATA.

6) 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	10/28/2022
	NOTE	
	I	

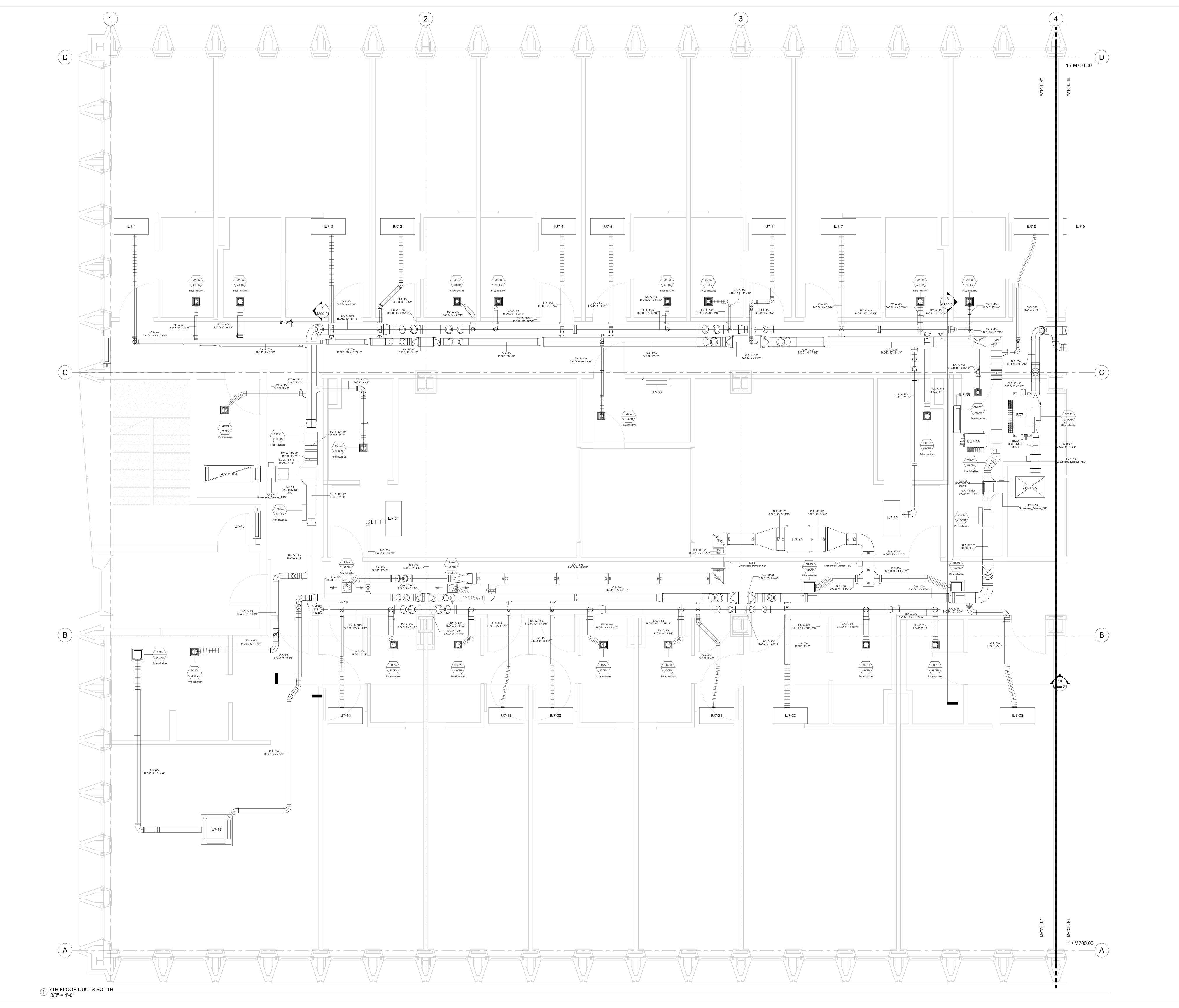
HOTEL MARCELL BY HILTON

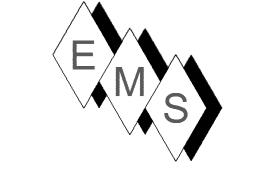
PIRELLI HOTEL

SEVENTH FLOOR NORTH HVAC PART. PLAN

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

M700.00





PLAN NORTH →

NOTE:

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SHOP DRAWING DEPICTS RECTANGULAR DUCTS.

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ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.

6) 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

O AS-BUILT 6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SEVENTH FLOOR SOUTH HVAC PART. PLAN

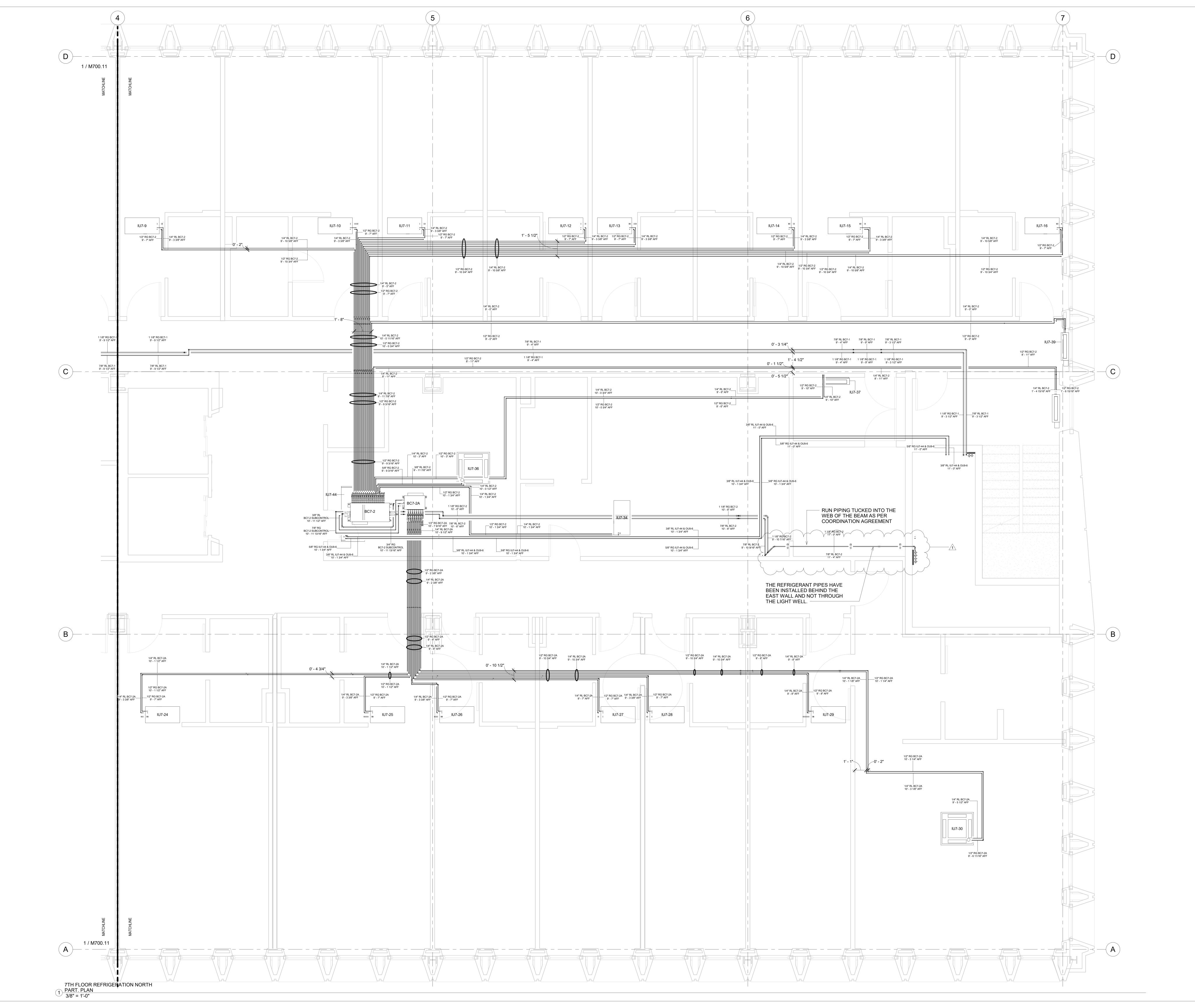
 Project Number
 5072

 Date
 12/15/20

 Drawn By
 TH

 Checked By
 SC

1700 01





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.

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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 N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.

6) 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

O AS-BUILT 6/20/2022

1 CLARIFICATION 10/28/2022

NOTE

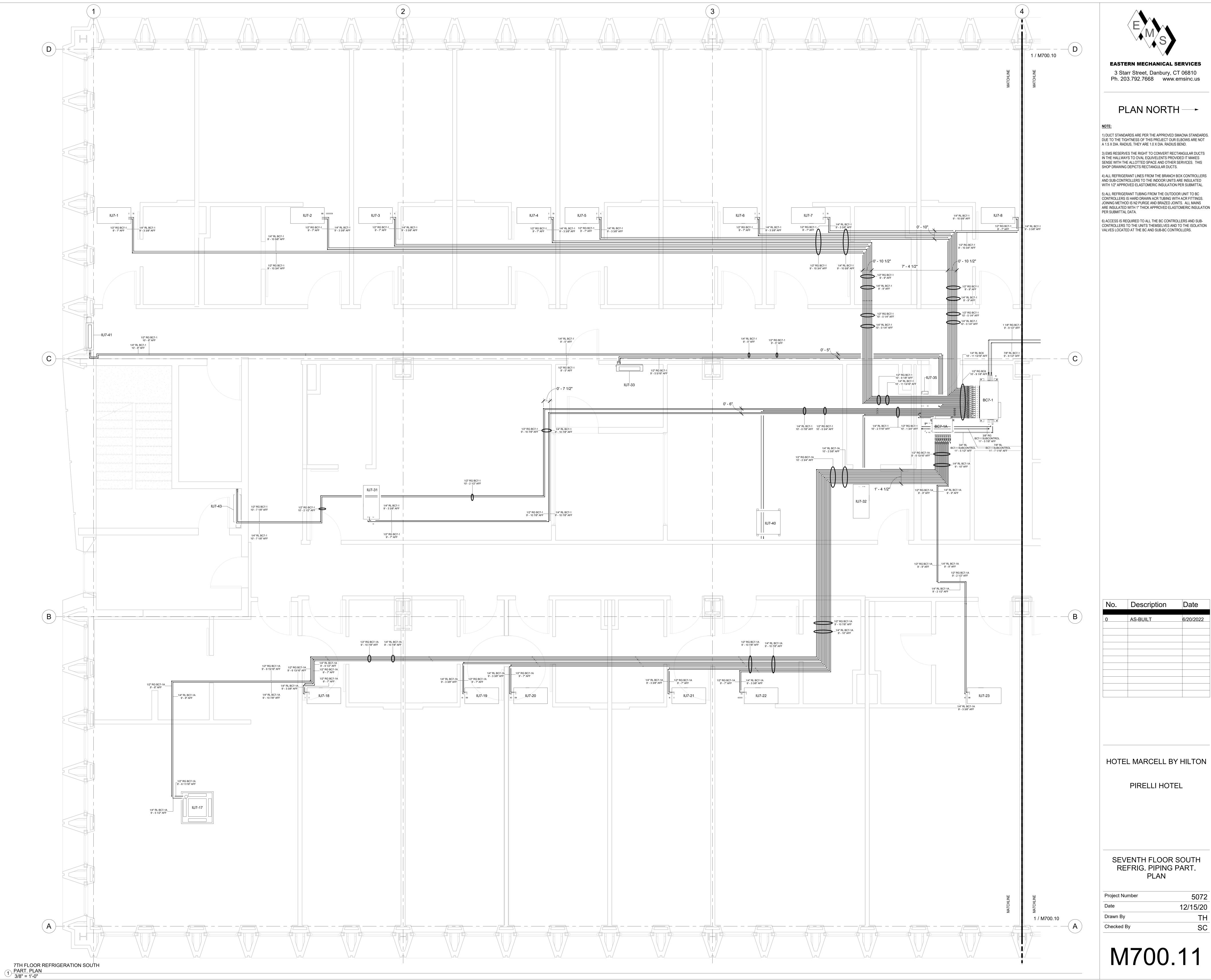
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

SEVENTH FLOOR NORTH REFRIG. PIPING PART. PLAN

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

M700.10



EASTERN MECHANICAL SERVICES

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

PLAN NORTH ---

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.

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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

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6) 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.

REFRIG. PIPING PART. PLAN 5072

PIRELLI HOTEL

12/15/20 Checked By

	LEVEL 7 BC7-1	TO OU7-1 M/	AINS	LE	VEL 7 BC7-2 REFRIGE	RATION PIF	PING
DESCRIPT	ION DIAME	TER	LENGTH	BC Controller	Piping Description	Diameter	Length
OU7-1 GAS LII	NE 1 1/8"	164' -	1 3/4"	BC7-2	IU7-9 GAS LINE	1/2"	43' - 1 3/8"
OU7-1 GAS LII		3' - 4		BC7-2	IU7-9 LIQUID LINE	1/4"	45' - 2 1/16"
OU7-1 LIQUID			1 7/8"	BC7-2	IU7-10 GAS LINE	1/2"	25' - 5"
OU7-1 LIQUID		3' - 4		BC7-2	IU7-10 LIQUID LINE	1/4"	25' - 11 13/16
Grand total: 35			1 3/8"	BC7-2	IU7-11 GAS LINE	1/2"	30' - 10 1/16"
			. 676	BC7-2	IU7-11 LIQUID LINE	1/4"	33' - 3 1/4"
	LEVEL 7 BC7-2	TO OU7-2 MA	AINS	BC7-2	IU7-12 GAS LINE	1/2"	45' - 11 11/16
DESCRIPT	ION DIAME	TFR	LENGTH	BC7-2	IU7-12 LIQUID LINE	1/4"	48' - 2 9/16"
DECORUIT I	1014 DIT WILL	I L I X	LLINOTTI	BC7-2	IU7-13 GAS LINE	1/2"	50' - 6 1/8"
OU7-2 GAS LII	NE 1 1/8"	122' -	1 1/2"	BC7-2	IU7-13 LIQUID LINE	1/4"	53' - 0"
OU7-2 GAS LII		0' - 11		BC7-2	IU7-14 GAS LINE	1/2"	65' - 5 1/2"
OU7-2 UAU LII OU7-2 LIQUID			2 1/8"	BC7-2	IU7-14 LIQUID LINE	1/4"	67' - 11 1/16"
OU7-2 LIQUID				BC7-2	IU7-15 GAS LINE	1/2"	73' - 2 7/16"
OU7-2 LIQUID LINE 1 1/8" 0' - 11 7/16" Grand total: 32 248' - 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"	
LE	VEL 7 BC7-1 REF	RIGERATION	I PIPING	BC7-2	IU7-16 LIQUID LINE	1/4"	93' - 0"
BC Controller	DESCRIPTION	DIAMETE	R LENGTH	BC7-2	IU7-34 GAS LINE	1/2"	27' - 6 1/2"
DC Controller	DESCRIPTION	DIANETE	IX LLINGIII	BC7-2	IU7-34 LIQUID LINE	1/4"	28' - 9 15/16"
BC7-1	IU7-1 GAS LINE	1/2"	99' - 2 7/8"	BC7-2	IU7-36 GAS LINE	5/8"	8' - 10 1/16"
BC7-1	IU7-1 GAS LINE		100' - 4 7/8"	BC7-2	IU7-36 LIQUID LINE	3/8"	9' - 6 15/16"
BC7-1	IU7-1 EIQOID EINI	1/2"	80' - 8 3/16"	BC7-2	IU7-37 GAS LINE	1/2"	57' - 3"
BC7-1	IU7-2 GAS LINE		81' - 6 1/4"	BC7-2	IU7-37 LIQUID LINE	1/4"	57' - 3 1/16"
BC7-1	IU7-3 GAS LINE	1/2"	73' - 6 9/16"	BC7-2	IU7-39 GAS LINE	1/2"	92' - 1 11/16"
BC7-1	IU7-3 LIQUID LINI		74' - 8 5/8"	BC7-2	IU7-39 LIQUID LINE	1/4"	91' - 8 3/4"
	1U7-4 GAS LINE	1/2"	57' - 10 3/8"	BC7-2	IU7-42 GAS LINE	1/2"	87' - 3 3/4"
BC7-1 BC7-1	1U7-4 GAS LINE		59' - 2 1/16"	BC7-2	IU7-42 LIQUID LINE	1/4"	87' - 7 7/16"
BC7-1	1U7-4 LIQUID LINI IU7-5 GAS LINE	1/2"	53' - 0 9/16"	Grand total: 17		17.1	1415' - 0 9/16
BC7-1	1U7-5 GAS LINE		54' - 3 13/16"	Cidila total. 17	•		
3C7-1 3C7-1	1U7-6 GAS LINE	1/2"	37' - 6 1/8"				
BC7-1	IU7-6 GAS LINE		38' - 9 3/8"				
	1U7-6 LIQUID LINI IU7-7 GAS LINE	1/2"	31' - 1 3/16"	LE\	/EL 7 BC7-2A REFRIG	ERATION PI	PING
BC7-1 BC7-1	IU7-7 GAS LINE		31 - 13/16	BC Controller	Dining Description	Diameter	Longth
		1/2"		DC CONTROller	Piping Description	Diameter	Length
BC7-1	IU7-8 GAS LINE		23' - 8 5/8"	DC7 24		4 /0"	15' 15'0"

25' - 6 11/16"

68' - 8 5/8"

18' - 0 3/8"

41' - 0 3/4"

7' - 5 1/4" 7' - 5 5/8"

41' - 5 5/16"

32' - 3 5/16"

101' - 2 1/4"

93' - 9 7/16" 94' - 2 15/16"

71' - 8 3/16" 72' - 0 1/2"

31' - 0 11/16"

935' - 5 1/16"

109' - 8 5/16"

220' - 1 3/16"

1649' - 5 13/16"

32' - 4 3/4"

69' - 0 5/16" 17' - 8 7/16"

IU7-8 LIQUID LINE 1/4"
IU7-31 GAS LINE 1/2"

IU7-31 LIQUID LINE 1/4"

IU7-32 GAS LINE 1/2"

IU7-32 LIQUID LINE 1/4"

IU7-33 GAS LINE 1/2"

IU7-33 LIQUID LINE 1/4"

IU7-35 GAS LINE 1/2"

IU7-35 LIQUID LINE 1/4"

IU7-40 GAS LINE 1/2"
IU7-40 LIQUID LINE 1/4"

IU7-41 GAS LINE 1/2"

IU7-41 LIQUID LINE 1/4"

IU7-43 LIQUID LINE 1/4"

LEVEL 7 BC7-1A REFRIGERATION PIPING

 IU7-17 GAS LINE
 1/2"
 110' - 6 5/8"

 IU7-17-LIQUID LINE
 1/4"
 110' - 0 3/4"

IU7-18 LIQUID LINE | 1/4" | 87' - 5 5/8"

IU7-20 GAS LINE 1/2" 67' - 9 9/16"

IU7-23 LIQUID LINE 1/4" 31' - 6 1/16"

LEVEL 7 OU9-6 REFRIGERATION PIPING

IU & OU Tags Piping Description Diameter Length

IU7-44 & OU9-6 | IU7-44 LIQUID LINE | 3/8" | 110' - 4 7/8"

IU7-44 & OU9-6 IU7-44 GAS LINE 5/8"

Grand total: 205

Grand total: 157

Grand total: 25

LE	VEL 7 BC7-2A REFRIG	ERATION PI	PING
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"	36' - 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' - 7 3/8"
BC7-2A	IU7-29 LIQUID LINE	1/4"	57' - 3 1/2"
BC7-2A	IU7-30 GAS LINE 1/2" 86' - 3		86' - 3 9/16"
BC7-2A	IU7-30 LIQUID LINE	1/4"	86' - 8 11/16"

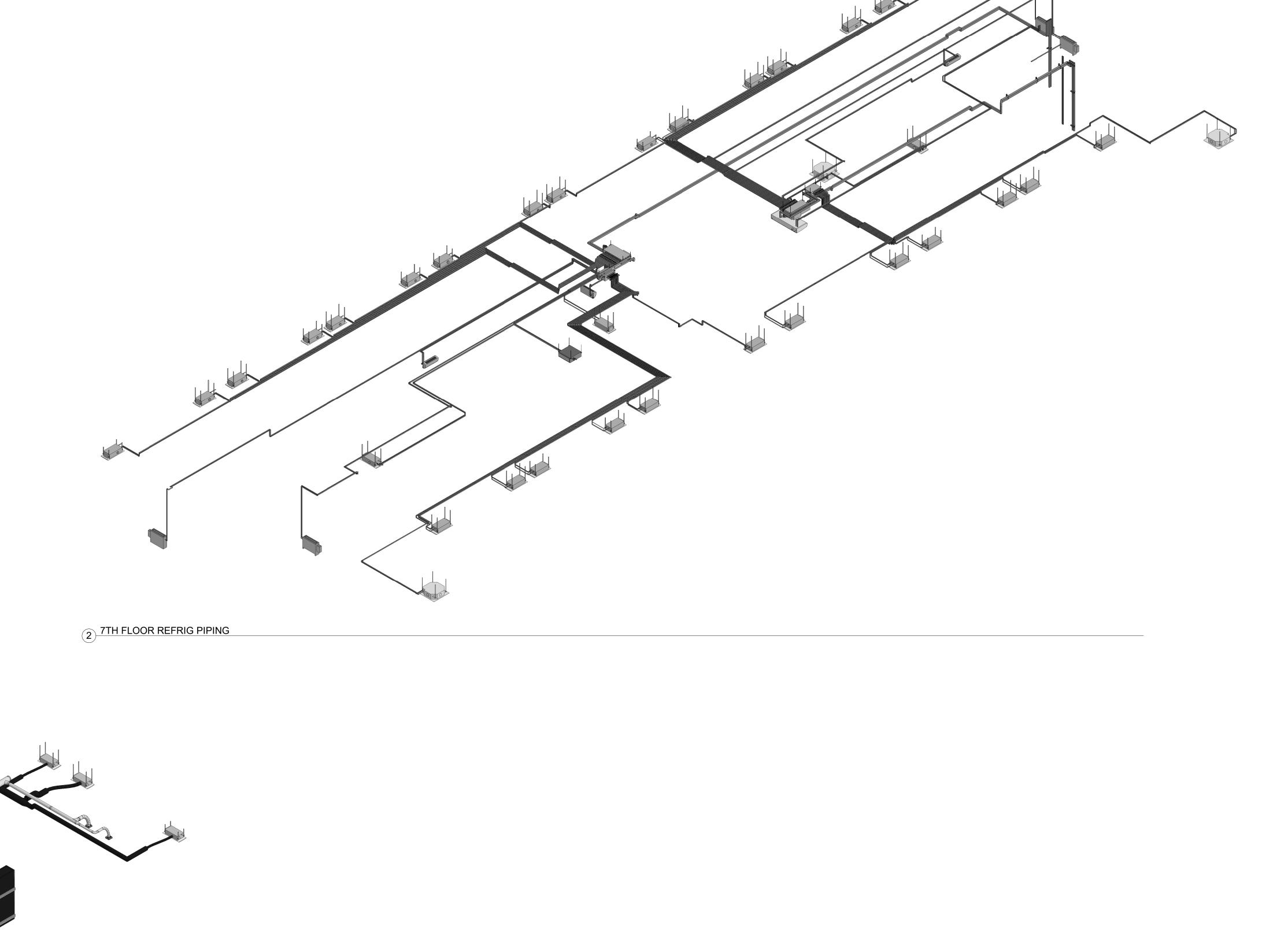
DC1-2A	107-30 GAS LINE	1/2	00 - 3 9/10
BC7-2A	IU7-30 LIQUID LINE	1/4"	86' - 8 11/16"
Grand total: 1	26	<u>'</u>	629' - 0 11/16
L	EVEL 7 BC71 SUBCON	NTROLLER	LINES
С	escription	Diameter	Length
BC7-1 SUBC	ONTROL LIQUID LINE	3/8"	8' - 10 1/2"
	ONTROL GAS LINE	3/4"	9' - 0 1/2"
BC7-1 SUBC	ONTROL GAS LINE	7/8"	8' - 5 15/16"
Grand total: 1	6		26' - 5"
L	EVEL 7 BC72 SUBCON	NTROLLER	LINES
	Description	Diameter	Length
BC7-2 SUBC	ONTROL LIQUID LINE	3/8"	11' - 10 11/16"
BC7-2 SUBC	ONTROL GAS LINE	3/4"	10' - 1 9/16"
BC7-2 SUBC	ONTROL GAS LINE	7/8"	12' - 4 11/16"
Grand total: 2		•	34' - 5"

		LEVEL 7 M	ITSUBISHI 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-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h
IU7-36	Mitsubishi Electric	PLFY-EP36NEMU-E	Air Conditioner Mitsubishi Electric Ceiling Recessed PLFY-EP Series 36000 Btu/h
IU7-37	Mitsubishi Electric	PKFY-P06NBMU-E	Air Conditioner Mitsubishi Electric Wall Mounted PKFY Series 6000 Btu/h
IU7-39	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
IU7-40	Mitsubishi Electric	PEFY-P12NMAU-E3	Air Conditioner Mitsubishi Electric Ducted PEFY Series 12000 Btu/h
IU7-41	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
IU7-42	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY Series 12000 Btu/h
IU7-43	Mitsubishi Electric	PFFY-P12NRMU-E	Air Conditioner Mitsubishi Electric In Wall Recessed PFFY 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			LEVEL 7 EXHAUST RGD SCHEDULE				
Mark	Actual Return Air Flow	Level	Manufacturer	Mark	Actual Return Air Flow	Level	Manufacture
DD-E7	15 CFM	7TH FLOOR	Price Industries	DD-711	40 CFM	7TH FLOOR	Price Industries
DD-727	30 CFM	7TH FLOOR	Price Industries	DD-710	40 CFM	7TH FLOOR	Price Industries
DD-728	30 CFM	7TH FLOOR	Price Industries	DD-709	40 CFM	7TH FLOOR	Price Industries
DD-730	30 CFM	7TH FLOOR	Price Industries	DD-701	45 CFM	7TH FLOOR	Price Industries
DD-732	30 CFM	7TH FLOOR	Price Industries	DD-731	50 CFM	7TH FLOOR	Price Industries
DD-707	30 CFM	7TH FLOOR	Price Industries	DD-706	50 CFM	7TH FLOOR	Price Industries
DD-705	30 CFM	7TH FLOOR	Price Industries	DD-726	50 CFM	7TH FLOOR	Price Industries
DD-704	30 CFM	7TH FLOOR	Price Industries	DD-ICE RM	50 CFM	7TH FLOOR	Price Industries
DD-703	30 CFM	7TH FLOOR	Price Industries	DD-716	55 CFM	7TH FLOOR	Price Industries
DD-702	30 CFM	7TH FLOOR	Price Industries	DD-722	55 CFM	7TH FLOOR	Price Industries
DD-733	30 CFM	7TH FLOOR	Price Industries	DD-717	55 CFM	7TH FLOOR	Price Industries
DD-729	30 CFM	7TH FLOOR	Price Industries	DD-712	55 CFM	7TH FLOOR	Price Industries
DD-725	30 CFM	7TH FLOOR	Price Industries	DD-718	65 CFM	7TH FLOOR	Price Industries
DD-H007	30 CFM	7TH FLOOR	Price Industries	DD-715	65 CFM	7TH FLOOR	Price Industries
DD-S073	30 CFM	7TH FLOOR	Price Industries	DD-714	65 CFM	7TH FLOOR	Price Industries
DD-719	40 CFM	7TH FLOOR	Price Industries	DD-S072	70 CFM	7TH FLOOR	Price Industries
DD-720	40 CFM	7TH FLOOR	Price Industries	DD-724	75 CFM	7TH FLOOR	Price Industries
DD-721	40 CFM	7TH FLOOR	Price Industries	DD-071	75 CFM	7TH FLOOR	Price Industries
DD-722	40 CFM	7TH FLOOR	Price Industries	DD-708	75 CFM	7TH FLOOR	Price Industries
DD-713	40 CFM	7TH FLOOR	Price Industries	39			

			LEVEL 7 VAV SCHE	DULE		
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
VS7-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	695 CFM

	LLVLL / FIXESI	H AIR RGD SCHE	DOLL
Mark	Actual Supply Air Flow	Level	Manufacturer
D-724	50 CFM	7TH FLOOR	Price Industries
D-708	50 CFM	7TH FLOOR	Price Industries
G-07A	120 CFM	7TH FLOOR	Price Industries
G-07B	150 CFM	7TH FLOOR	Price Industries
T-07A	193 CFM	7TH FLOOR	Price Industries
T-07A	192 CFM	7TH FLOOR	Price Industries
RR-07A	192 CFM	7TH FLOOR	Price Industries
RR-07A	193 CFM	7TH FLOOR	Price Industries





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

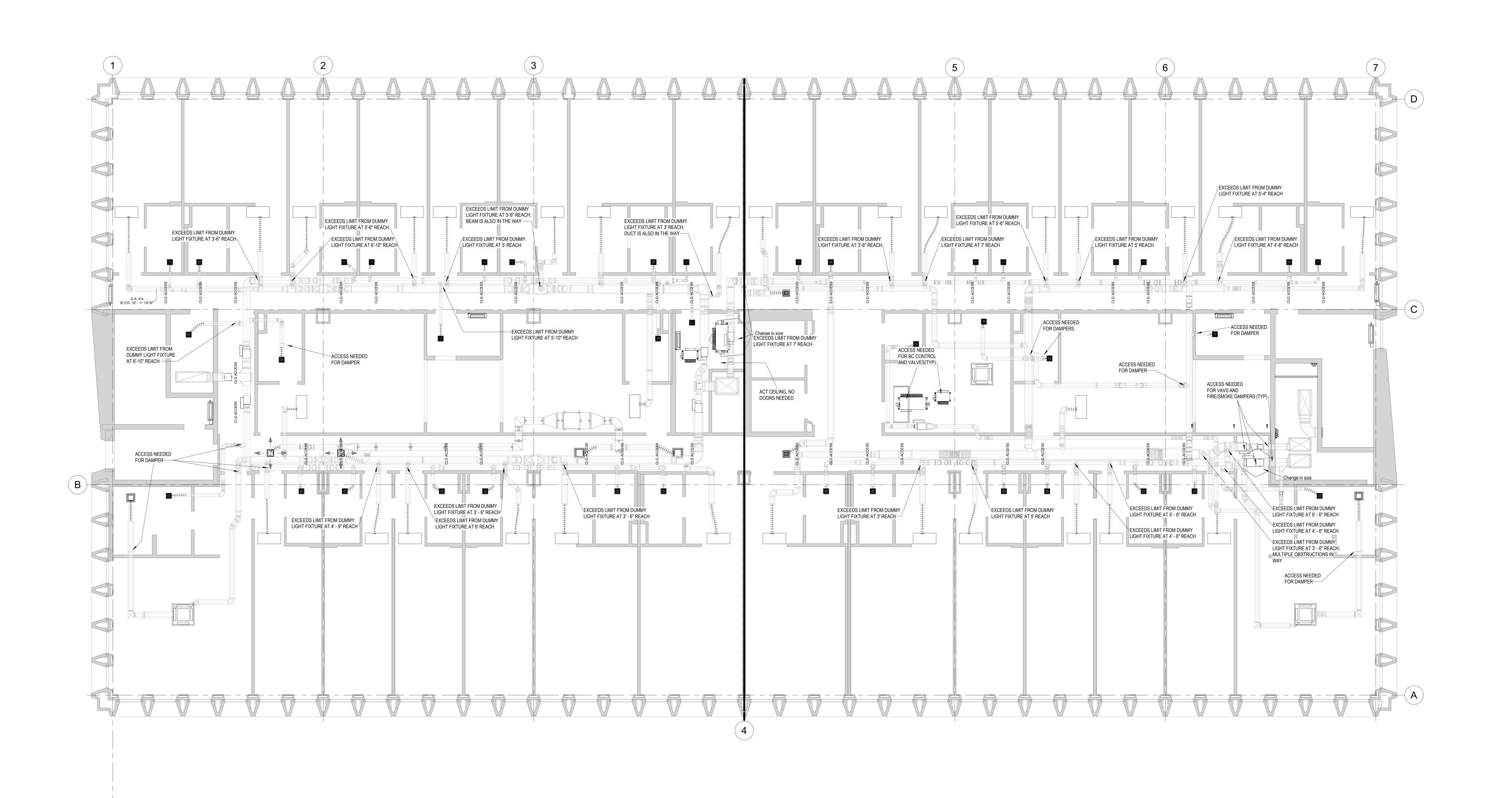
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

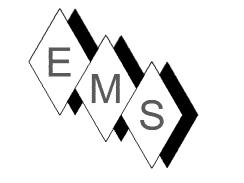
ISO VIEWS & SCHEDULES

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

M700.20



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



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

NOT

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.

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

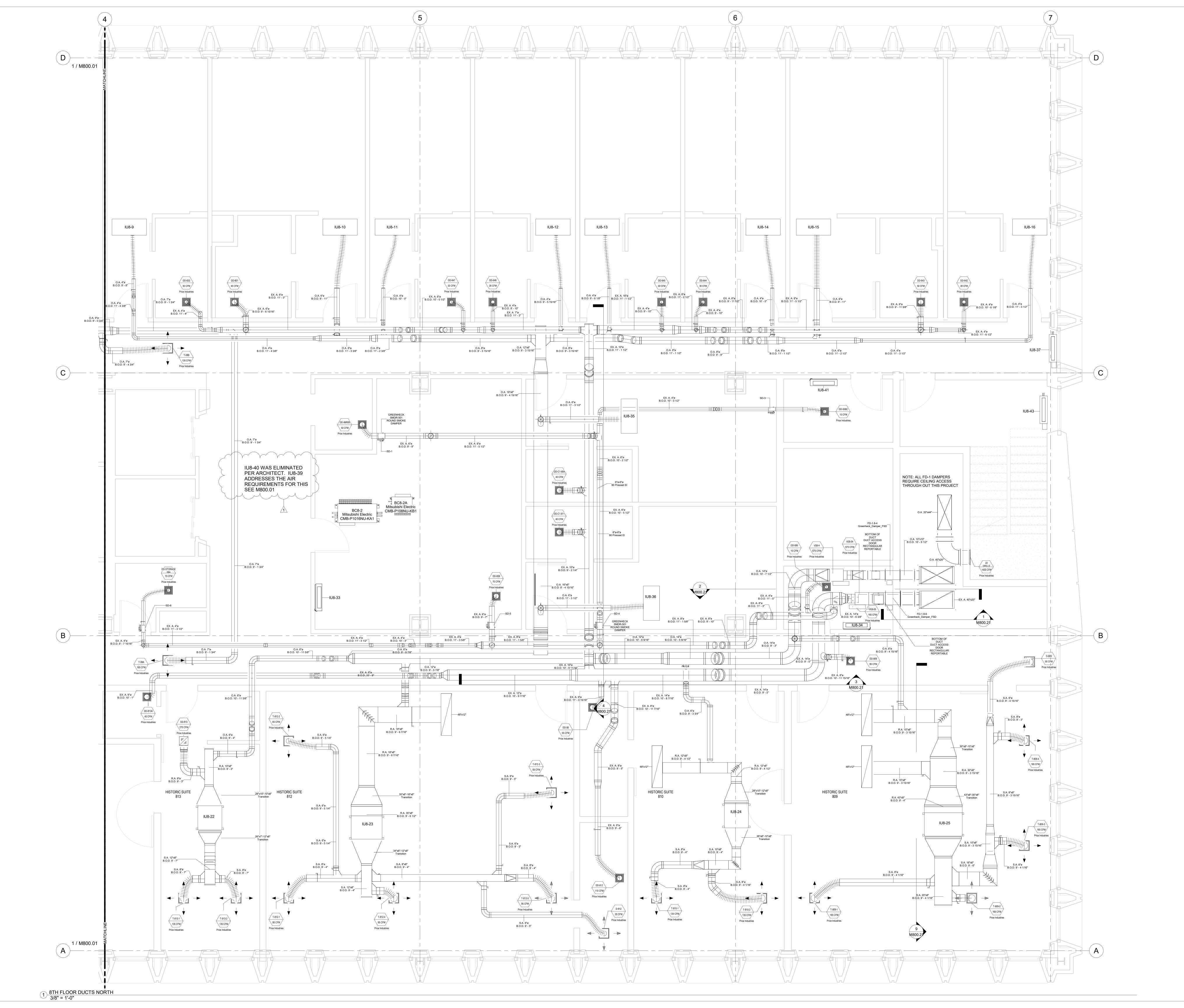
HOTEL MARCELL BY HILTON

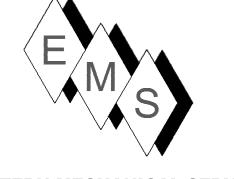
PIRELLI HOTEL

CEILING ACCESS POINTS

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

M700.30





PLAN NORTH ---

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 EQUIVELENTS 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 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 SUBCONTROLLERS 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.

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

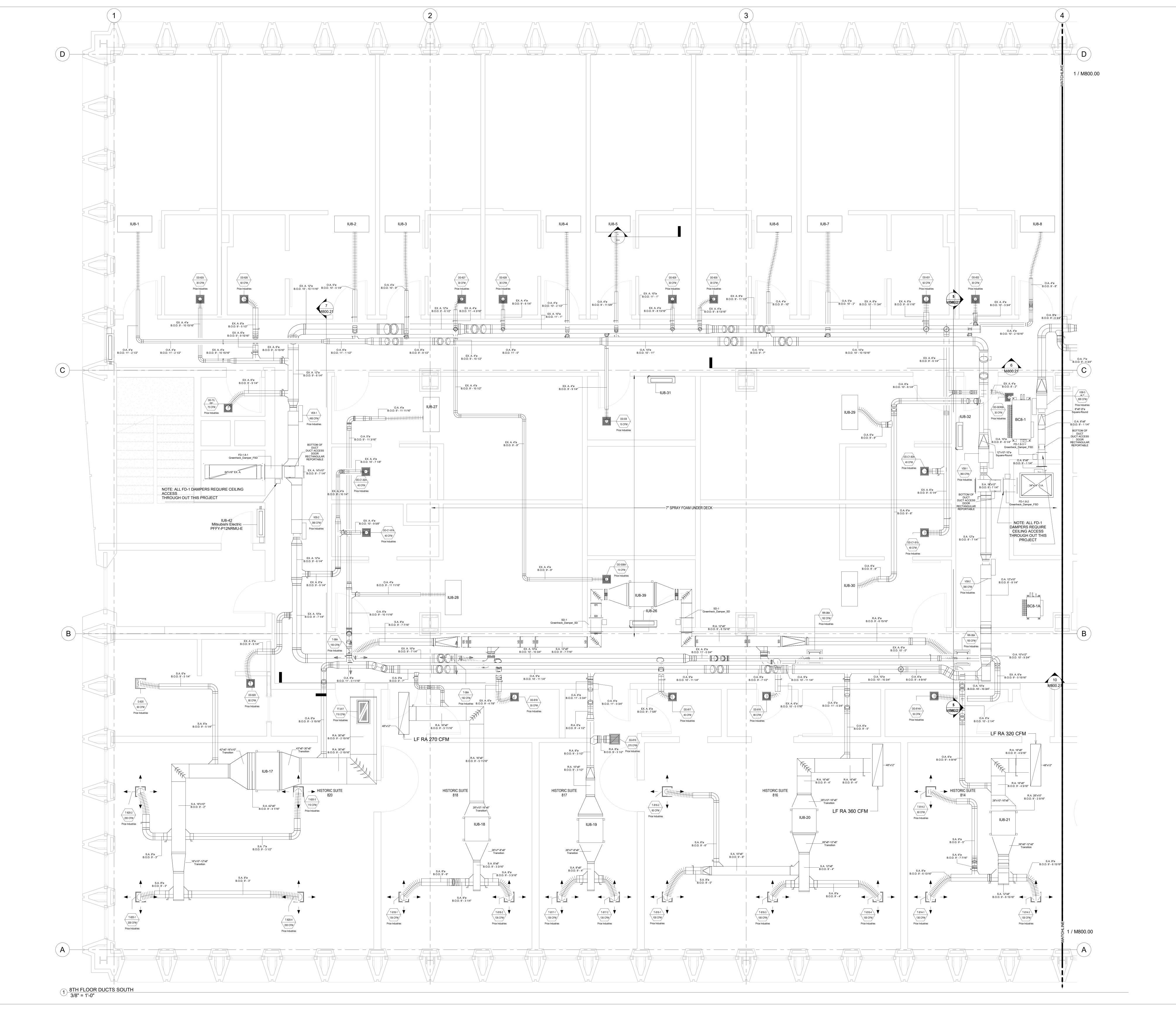
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

EIGHTH FLOOR NORTH HVAC PART. PLAN

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

M800.00





PLAN NORTH ---

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 EQUIVELENTS 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 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 SUBCONTROLLERS 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

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

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.

lo.	Description	Date
	AS-BUILT	6/20/2022
	1	1

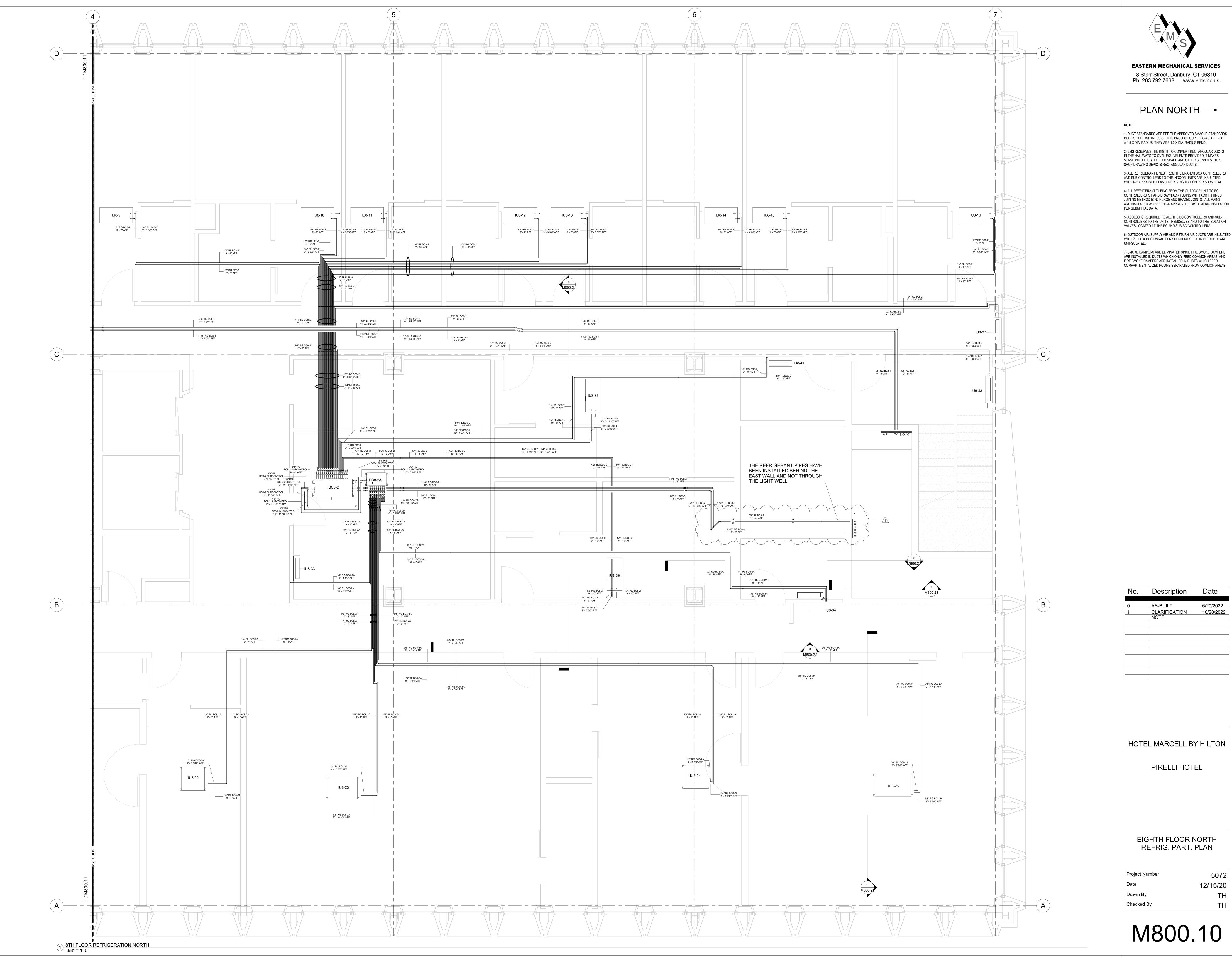
HOTEL MARCELL BY HILTON

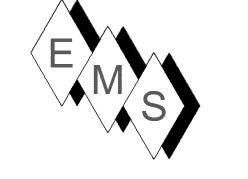
PIRELLI HOTEL

EIGHTH FLOOR SOUTH HVAC PART. PLAN

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

1800.01





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

PLAN NORTH ---

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 EQUIVELENTS PROVIDED IT MAKES

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 N2 PURGE AND BRAZED JOINTS. ALL MAINS

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

7) SMOKE DAMPERS ARE ELIMINATED SINCE FIRE SMOKE DAMPERS ARE INSTALLED IN DUCTS WHICH ONLY FEED COMMON AREAS, AND

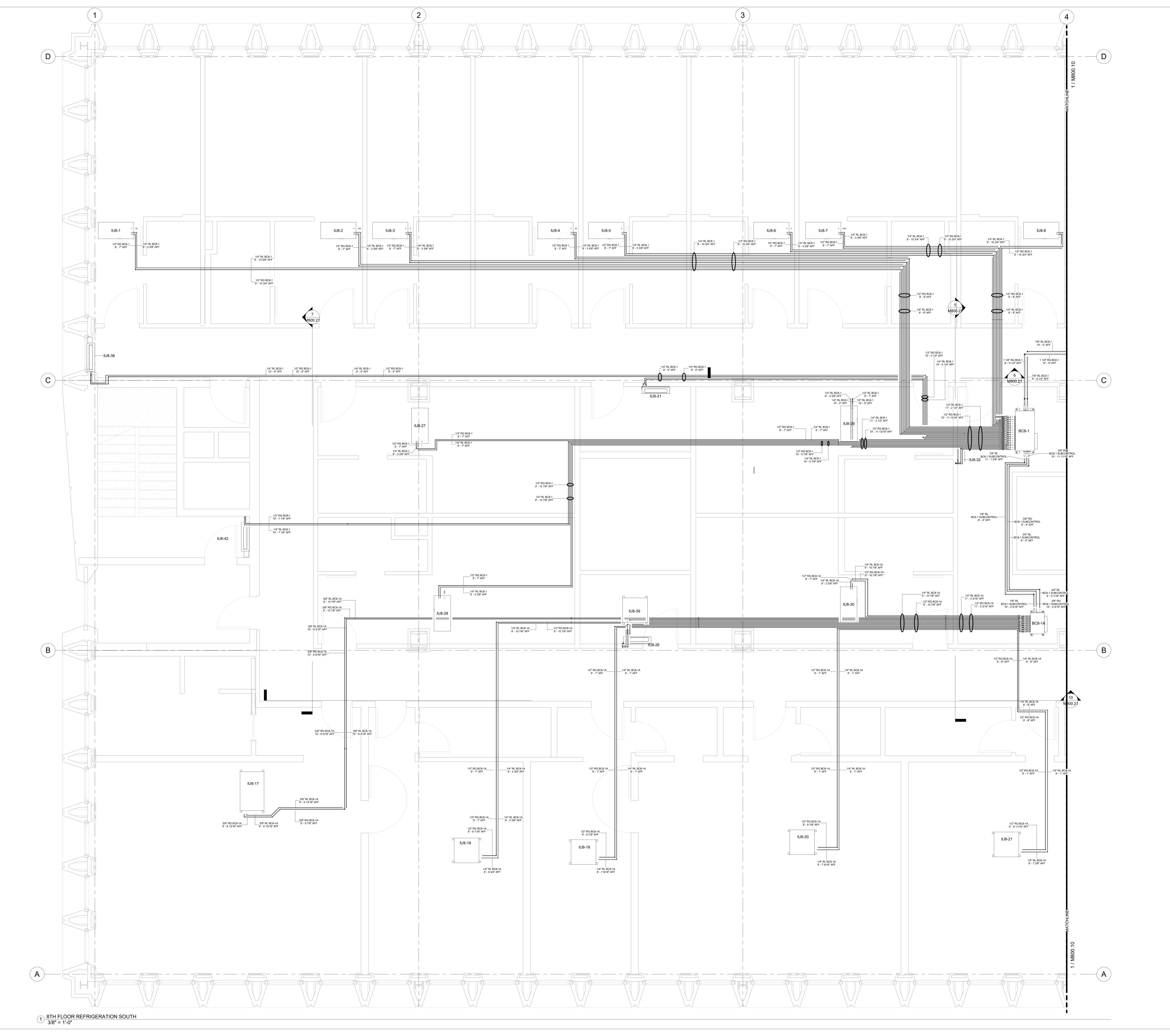
Description AS-BUILT
CLARIFICATION
NOTE 6/20/2022 10/28/2022

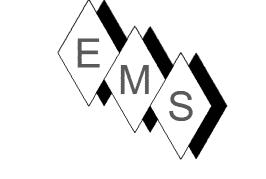
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

EIGHTH FLOOR NORTH REFRIG. PART. PLAN

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





PLAN NORTH →

NOTE:

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ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION

SHOP DRAWING DEPICTS RECTANGULAR DUCTS.

PER SUBMITTAL DATA.

5) ACCESS IS REQUIRED TO ALL THE BC CONTROLLERS AND SUBCONTROLLERS 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.

No. Description Date

O 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

1800.11

	LEVEL 8 BC8-1 REFRIG	ERATION PIP	PING
ch	DESCRIPTION	DIAMETER	LENGTH
DC0 4	ILIO 4 CAC LINE	4/0"	1001 115/10
BC8-1	IU8-1 GAS LINE	1/2"	100' - 4 15/16
BC8-1	IU8-1 LIQUID LINE	1/4"	100' - 11 5/16
BC8-1	IU8-2 GAS LINE	1/2"	79' - 7 7/8"
BC8-1			80' - 2 1/2"
BC8-1	IU8-3 GAS LINE	1/2"	74' - 8 1/8"
BC8-1	IU8-3 LIQUID LINE	1/4"	75' - 2 1/2"
BC8-1	IU8-4 GAS LINE	1/2"	59' - 0 1/16"
BC8-1	IU8-4 LIQUID LINE	1/4"	59' - 8 5/8"
BC8-1	IU8-5 GAS LINE	1/2"	53' - 6 7/16"
BC8-1	IU8-5 LIQUID LINE	1/4"	54' - 6 1/4"
BC8-1	IU8-6 GAS LINE	1/2"	38' - 3 13/16"
BC8-1	IU8-6 LIQUID LINE	1/4"	39' - 0 3/8"
BC8-1	IU8-7 GAS LINE	1/2"	33' - 5 1/16"
BC8-1	IU8-7 LIQUID LINE	1/4"	33' - 11 3/16"
BC8-1	IU8-8 GAS LINE	1/2"	23' - 11 3/8"
BC8-1	IU8-8 LIQUID LINE	1/4"	25' - 4"
BC8-1	IU8-27 GAS LINE	1/2"	56' - 10 13/16
BC8-1	IU8-27 LIQUID LINE	1/4"	57' - 3"
BC8-1	IU8-28 GAS LINE	1/2"	67' - 4 3/16"
BC8-1	IU8-28 LIQUID LINE	1/4"	67' - 6 3/16"
BC8-1	IU8-29 GAS LINE	1/2"	20' - 3 13/16"
BC8-1	IU8-29 LIQUID LINE	1/4"	20' - 11"
BC8-1	IU8-31 GAS LINE	1/2"	41' - 8 5/8"
BC8-1	IU8-31 LIQUID LINE	1/4"	42' - 4 15/16"
BC8-1	IU8-32 GAS LINE	1/2"	9' - 9 1/8"
BC8-1	IU8-32 LIQUID LINE	1/4"	9' - 8 9/16"
BC8-1	IU8-38 GAS LINE	1/2"	102' - 9 11/16
BC8-1	IU8-38 LIQUID LINE	1/4"	103' - 1 13/16
BC8-1	IU8-42 GAS LINE	1/2"	88' - 7 7/8"
BC8-1	IU8-42 LIQUID LINE	1/4"	89' - 3"

DO 0 4 11		ERATION P	IPING
BC Controller	Description	Diameter	Length
BC8-1A	IU8-17 GAS LINE	5/8"	94' - 7 3/16"
BC8-1A	IU8-17 LIQUID LINE	3/8"	93' - 11 3/4"
BC8-1A	IU8-18 GAS LINE	1/2"	74' - 11 15/16"
BC8-1A	IU8-18 LIQUID LINE	1/4"	75' - 8 3/16"
BC8-1A	IU8-19 GAS LINE	1/2"	65' - 1 1/2"
BC8-1A	IU8-19 LIQUID LINE	1/4"	65' - 1 7/16"
BC8-1A	IU8-20 GAS LINE	1/2"	42' - 8 1/8"
BC8-1A	IU8-20 LIQUID LINE	1/4"	42' - 7 1/2"
BC8-1A	IU8-21 GAS LINE	1/2"	26' - 3 5/8"
BC8-1A	IU8-21 LIQUID LINE	1/4"	26' - 10 5/16"
BC8-1A	IU8-26 GAS LINE	1/2"	45' - 3 15/16"
BC8-1A	IU8-26 LIQUID LINE	1/4"	44' - 10 13/16"
BC8-1A	IU8-30 GAS LINE	1/2"	22' - 5"
BC8-1A	IU8-30 LIQUID LINE	1/4"	22' - 5 3/8"
BC8-1A	IU8-39 GAS LINE	1/2"	42' - 0 5/16"
BC8-1A	IU8-39 LIQUID LINE	1/4"	42' - 7 1/16"

BC Controller	Piping Description	Diameter	Length
BC8-2	IU8-9 GAS LINE	1/2"	45' - 4 9/16"
BC8-2	IU8-9 LIQUID LINE	1/4"	46' - 3 1/4"
BC8-2	IU8-10 GAS LINE	1/2"	28' - 7 7/16"
BC8-2	IU8-10 LIQUID LINE	1/4"	29' - 5"
BC8-2	IU8-11 GAS LINE	1/2"	32' - 11 15/16
BC8-2	IU8-11 LIQUID LINE	1/4"	34' - 9 3/8"
BC8-2	IU8-12 GAS LINE	1/2"	48' - 7"
BC8-2	IU8-12 LIQUID LINE	1/4"	49' - 8"
BC8-2	IU8-13 GAS LINE	1/2"	53' - 1 15/16"
BC8-2	IU8-13 LIQUID LINE	1/4"	54' - 5 3/16"
BC8-2	IU8-14 GAS LINE	1/2"	68' - 3 13/16"
BC8-2	IU8-14 LIQUID LINE	1/4"	69' - 7"
BC8-2	IU8-15 GAS LINE	1/2"	72' - 9 3/16"
BC8-2	IU8-15 LIQUID LINE	1/4"	73' - 11 1/2"
BC8-2	IU8-16 GAS LINE	1/2"	93' - 0 7/8"
BC8-2	IU8-16 LIQUID LINE	1/4"	94' - 4 3/16"
BC8-2	IU8-35 GAS LINE	1/2"	31' - 6 3/16"
BC8-2	IU8-35 LIQUID LINE	1/4"	32' - 0 3/16"
BC8-2	IU8-36 GAS LINE	1/2"	43' - 2 3/4"
BC8-2	IU8-36 LIQUID LINE	1/4"	44' - 3 13/16"
BC8-2	IU8-37 GAS LINE	1/2"	92' - 11 3/8"
BC8-2	IU8-37 LIQUID LINE	1/4"	93' - 5 11/16"
BC8-2	IU8-41 GAS LINE	1/2"	57' - 8 1/8"
BC8-2	IU8-41 LIQUID LINE	1/4"	57' - 11 3/4"
BC8-2	IU8-43 GAS LINE	1/2"	87' - 3 3/4"
BC8-2	IU8-43 LIQUID LINE	1/4"	87' - 7 7/16"

LE	VEL 8 BC8-2A REFRIGE	ERATION PI	PING
BC Controller	Piping Description	Diameter	Length
BC8-2A	IU8-22 GAS LINE	1/2"	46' - 6"
BC8-2A	IU8-22 LIQUID LINE	1/4"	48' - 9 1/16"
BC8-2A	IU8-23 GAS LINE	1/2"	33' - 8 1/4"
BC8-2A	IU8-23 LIQUID LINE	1/4"	34' - 4 7/16"
BC8-2A	IU8-24 GAS LINE	1/2"	65' - 10 7/16"
BC8-2A	IU8-24 LIQUID LINE	1/4"	67' - 4 1/4"
BC8-2A	IU8-25 GAS LINE	5/8"	86' - 10"
BC8-2A	IU8-25 LIQUID LINE	3/8"	86' - 11 3/16"
BC8-2A	IU8-33 GAS LINE	1/2"	21' - 5"
BC8-2A	IU8-33 LIQUID LINE	1/4"	22' - 7 5/8"
BC8-2A	IU8-34 GAS LINE	1/2"	59' - 11 13/16"
BC8-2A	IU8-34 LIQUID LINE	1/4"	61' - 0 7/8"
Grand total: 12	28		635' - 4 15/16"

LEVE	EL 8 BC8-1 TO OU	J8-1 MAINS	LEVEL 8 BC8-1 SUBCOM	NTROLLER	LINES
DESCRIPTION	DIAMETER	LENGTH	Description	Diameter	Length
OU8-1 GAS LINE	1 1/8"	166' - 4 9/16"	BC8-1 SUBCONTROL LIQUID LINE	3/8"	23' - 3 1/2"
OU8-1 LIQUID LINE	7/8"	166' - 9 13/16"	BC8-1 SUBCONTROL GAS LINE	3/4"	23' - 0 3/8"
Grand total: 38		333' - 2 3/8"	BC8-1 SUBCONTROL GAS LINE	7/8"	22' - 10 1/4"
			Grand total: 21		69' - 2 1/8"
LEVE	EL 8 BC8-2 TO OU	8-2 MAINS	LEVEL 8 BC8-2 SUBCO	NTROLLER	LINES
DESCRIPTION	DIAMETER	LENGTH	Description	Diameter	Length
DU8-2 GAS LINE	1 1/8"	122' - 4 11/16"	BC8-2 SUBCONTROL LIQUID LINE	3/8"	12' - 9 3/16"
OU8-2 LIQUID LINE	7/8"	124' - 7 5/16"	BC8-2 SUBCONTROL GAS LINE	3/4"	11' - 0 1/16"
Grand total: 38		247' - 0"	BC8-2 SUBCONTROL GAS LINE	7/8"	13' - 3 3/16"
			Grand total: 21	-	37' - 0 1/2"

			LEVEL 8 VAV SCHEDU			
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONTROL ORIENTATION	SIZE	FLOW
VE8-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	495 CFM
VE8-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	390 CFM
VE8-04	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	675 CFM
VE8-05	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	165 CFM
VS8-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	360 CFM
VS8-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	390 CFM
VS8-3 ALT	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x10"-8"ø	300 CFM
VS8-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	675 CFM

Mark	Actual Supply Air Flow	Manufacturer
T-812-3	65 CFM	Price Industries
D-812	35 CFM	Price Industries
T-812-5	95 CFM	Price Industries
T-812-4	95 CFM	Price Industries
T-812-1	95 CFM	Price Industries
T-812-2	65 CFM	Price Industries
T-813-2	135 CFM	Price Industries
T-813-1	135 CFM	Price Industries
T-814-3	130 CFM	Price Industries
T-814-1	130 CFM	Price Industries
T-816-4	100 CFM	Price Industries
T-817-2	135 CFM	Price Industries
T-817-1	135 CFM	Price Industries
T-818-2	135 CFM	Price Industries
T-818-1	135 CFM	Price Industries
T-820-4	200 CFM	Price Industries
T-820-1	200 CFM	Price Industries
T-820-2	200 CFM	Price Industries
T-820-3	110 CFM	Price Industries
T-814-2	60 CFM	Price Industries
T-816-2	60 CFM	Price Industries
T-816-1	100 CFM	Price Industries
T-816-3	100 CFM	Price Industries
T-810-1	135 CFM	Price Industries
T-810-2	135 CFM	Price Industries
T-809-1	165 CFM	Price Industries
T-809-2	165 CFM	Price Industries
T-809-3	165 CFM	Price Industries
T-809-4	165 CFM	Price Industries
D-820	60 CFM	Price Industries
D-809	50 CFM	Price Industries
T-08A	165 CFM	Price Industries
T-08B	135 CFM	Price Industries
TT-817	710 CFM	Price Industries
SS-819	270 CFM	Price Industries
T-08A	193 CFM	Price Industries
T-08A	192 CFM	Price Industries
RR-08A	192 CFM	Price Industries
RR-08A	193 CFM	Price Industries

LEVEL 8 SUPPLY, RETURN AND FRESH AIR RGDS

Mark	Flow	Manufacturer
DD-STORAGE 08A	15 CFM	Price Industries
DD-085	15 CFM	Price Industries
PP-818	25 CFM	Price Industries
DD-827	30 CFM	Price Industries
DD-814B	30 CFM	Price Industries
DD-SER08	30 CFM	Price Industries
DD-817	40 CFM	Price Industries
DD-C1-804	40 CFM	Price Industries
DD-813A	45 CFM	Price Industries
DD-IMR08	50 CFM	Price Industries
DD-818	55 CFM	Price Industries
DD-814A	55 CFM	Price Industries
DD-56	55 CFM	Price Industries
DD-820	80 CFM	Price Industries
DD-809	95 CFM	Price Industries
DD-812	110 CFM	Price Industries

LEVEL 8 EXHAUST RGD SCHEDULE

Mark	Manufacturer	Model	Description
IVIGIR	Manadata	Wiedel	Boompton
BC8-1	Mitsubishi Electric	CMB-P1016NU-JA1	Mitsubishi Electric Main Branch, 16 BC Controller
BC8-1A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Electric Sub Branch, 8 BC Controller
BC8-2	Mitsubishi Electric	CMB-P1016NU-KA1	Mitsubishi Electric Main Branch, 16 BC Controller
BC8-2A	Mitsubishi Electric	CMB-P108NU-KB1	Mitsubishi Electric Sub Branch, 8 BC Controller
IU8-1	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-2	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-3	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-4	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-5	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-6	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-7	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-8	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-9	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-10	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-11	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-12	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-13	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-14	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-15	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-16	Mitsubishi Electric	PMFY-P12NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-17	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-18	Mitsubishi Electric	PEFY-P08NMAU-E3	Mitsubishi Electric 8000 Btu/h, Ceiling Concealed Ducted, PEFY Series Air Conditioner
IU8-19	Mitsubishi Electric	PEFY-P08NMAU-E3	Mitsubishi Electric 8000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-20	Mitsubishi Electric	PEFY-P12NMAU-E3	Mitsubishi Electric 12000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-21	Mitsubishi Electric	PEFY-P12NMAU-E3	Mitsubishi Electric 12000 Btu/h, Ceiling Concealed Ducted, PEFY Series Air Conditioner
IU8-22	Mitsubishi Electric	PEFY-P08NMAU-E3	Mitsubishi Electric 8000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-23	Mitsubishi Electric	PEFY-P15NMSU-ER2	Mitsubishi Electric 15000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-24	Mitsubishi Electric	PEFY-P08NMAU-E3	Mitsubishi Electric 8000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-25	Mitsubishi Electric	PEFY-P24NMSU-ER2	Mitsubishi Electric 24000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-26	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner
IU8-27	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Vali Modrited, 1 Ki 1 Genes Ali Conditioner
IU8-28	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-29	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-30	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
IU8-31	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner
IU8-32	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner
IU8-33	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner
IU8-34	Mitsubishi Electric	PKFY-P06NBMU-E	Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner
IU8-35	Mitsubishi Electric	PMFY-P08NBMU-E	· · · · · · · · · · · · · · · · · · ·
IU8-35 IU8-36	Mitsubishi Electric	PMFY-P08NBMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
1U8-36 IU8-37	Mitsubishi Electric	PFFY-P12NRMU-E	Mitsubishi Electric 8000 Btu/h, Ceiling Recessed, 2-Way, PMFY Series Air Conditioner
108-37 IU8-38		PFFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner
108-38 IU8-39	Mitsubishi Electric Mitsubishi Electric	PEFY-P12NMAU-E3	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner Mitsubishi Electric 12000 Btu/h, Coiling Concooled Ducted PFFY Series Air Conditioner
		PKFY-P06NBMU-E	Mitsubishi Electric 12000 Btu/h, Ceiling Concealed-Ducted, PEFY Series Air Conditioner
IU8-41	Mitsubishi Electric Mitsubishi Electric		Mitsubishi Electric 6000 Btu/h, Wall Mounted, PKFY Series Air Conditioner Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner
IU8-42 IU8-43	Mitsubishi Electric	PFFY-P12NRMU-E PFFY-P12NRMU-E	Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner Mitsubishi Electric 12000 Btu/h, PFFY Series Air Conditioner



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

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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 N2 PURGE AND BRAZED JOINTS. ALL MAINS ARE INSULATED WITH 1" THICK APPROVED ELASTOMERIC INSULATION PER SUBMITTAL DATA.

3) ALL REFRIGERANT LINES FROM THE BRANCH BOX CONTROLLERS

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) 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

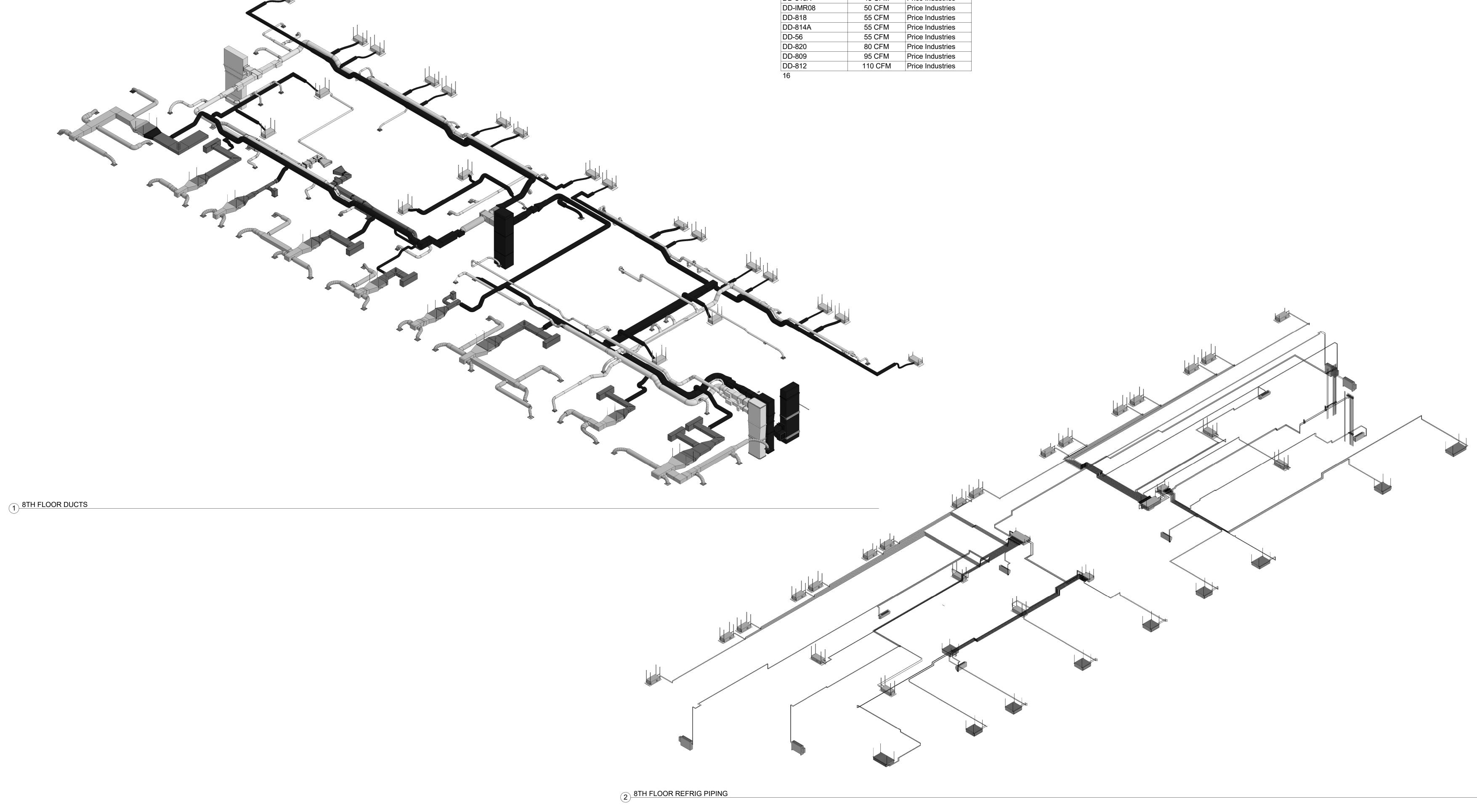
HOTEL MARCELL BY HILTON

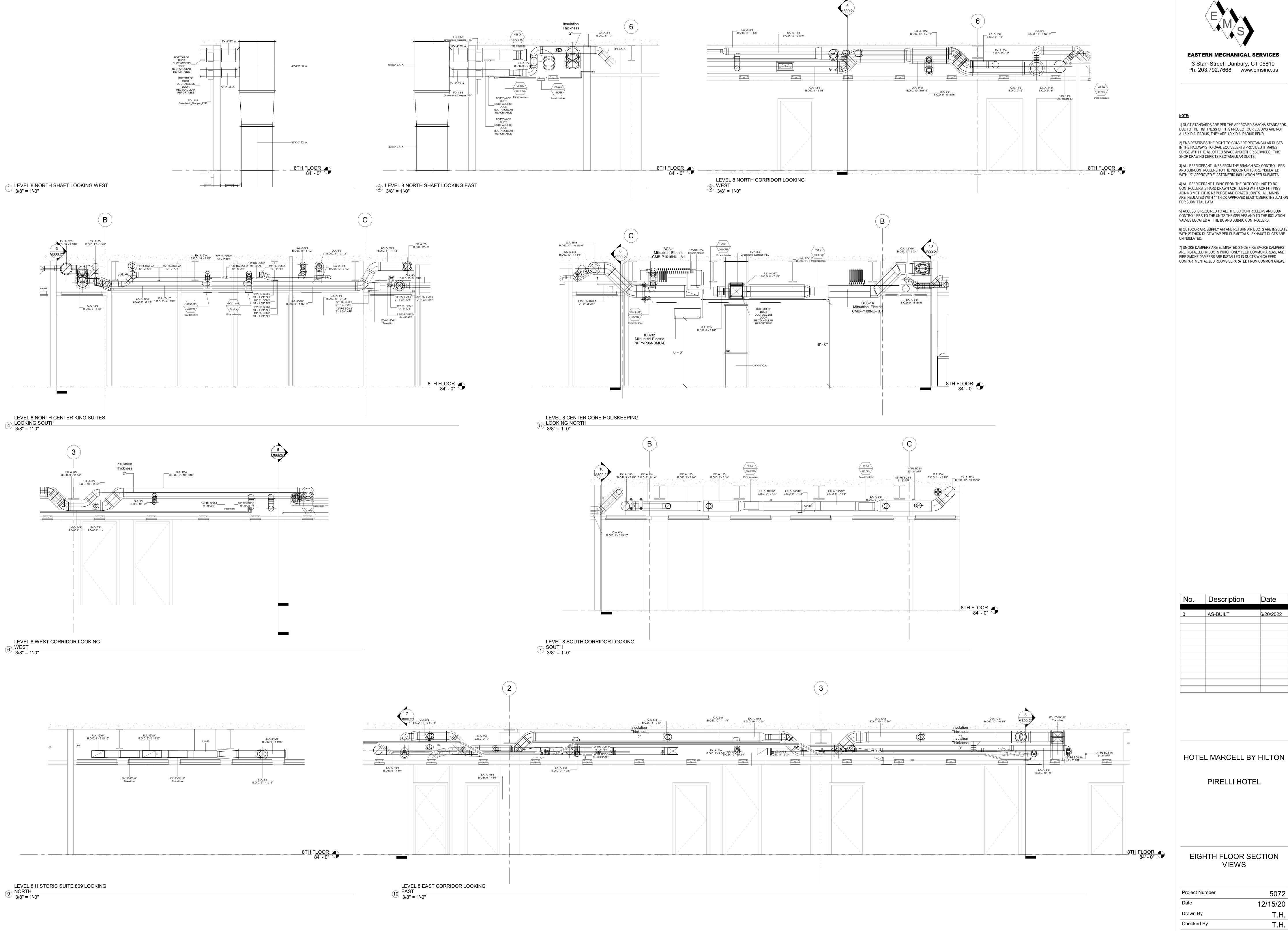
PIRELLI HOTEL

ISO VIEWS & SCHEDULES

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

M800.20





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

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 EQUIVELENTS PROVIDED IT MAKES SENSE WITH THE ALLOTTED SPACE AND OTHER SERVICES. THIS

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 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-

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.

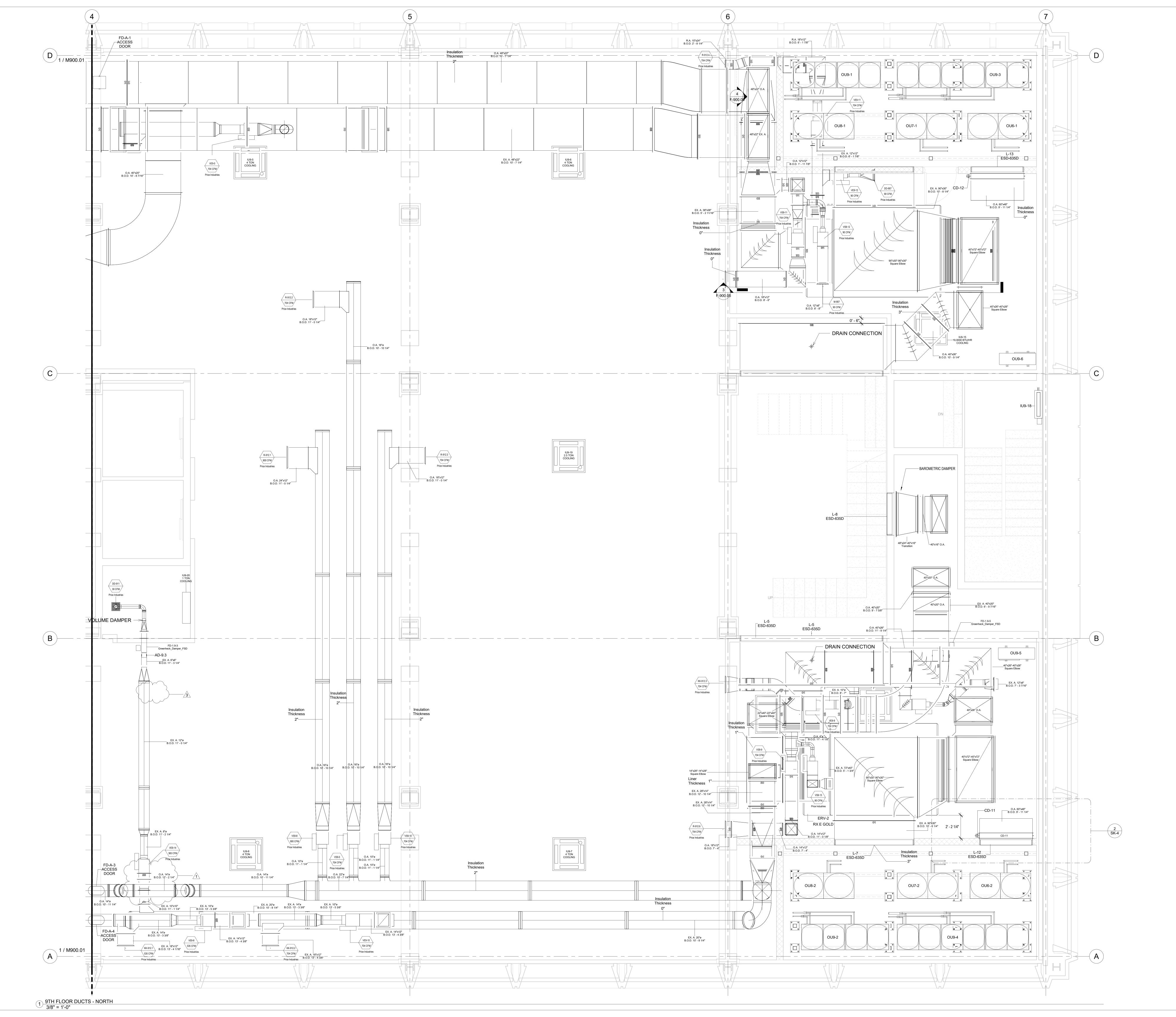
Description

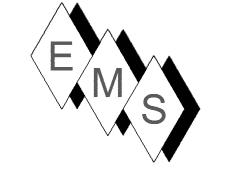
HOTEL MARCELL BY HILTON

PIRELLI HOTEL

EIGHTH FLOOR SECTION VIEWS

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





PLAN NORTH →

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" HIGH DUCT AND GET THE REQUIRED CFMS FOR 10" ROUND. SEE SUBMITTAL BELOW.

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4) ALL REFRIGERANT TUBING FROM THE OUTDOOR UNIT TO BC

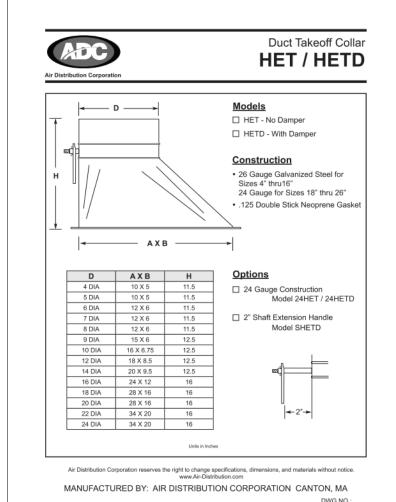
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6) OUTDOOR AIR, SUPPLY AIR DUCTS ARE INSULATED WITH 1 1/2" THICK DUCT WRAP PER ENGINEERING VARIANCE. EXHAUST AND RETURN AIR DUCTS ARE UNINSULATED.

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" RUBBER LINING 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 INTERALLY LINED.



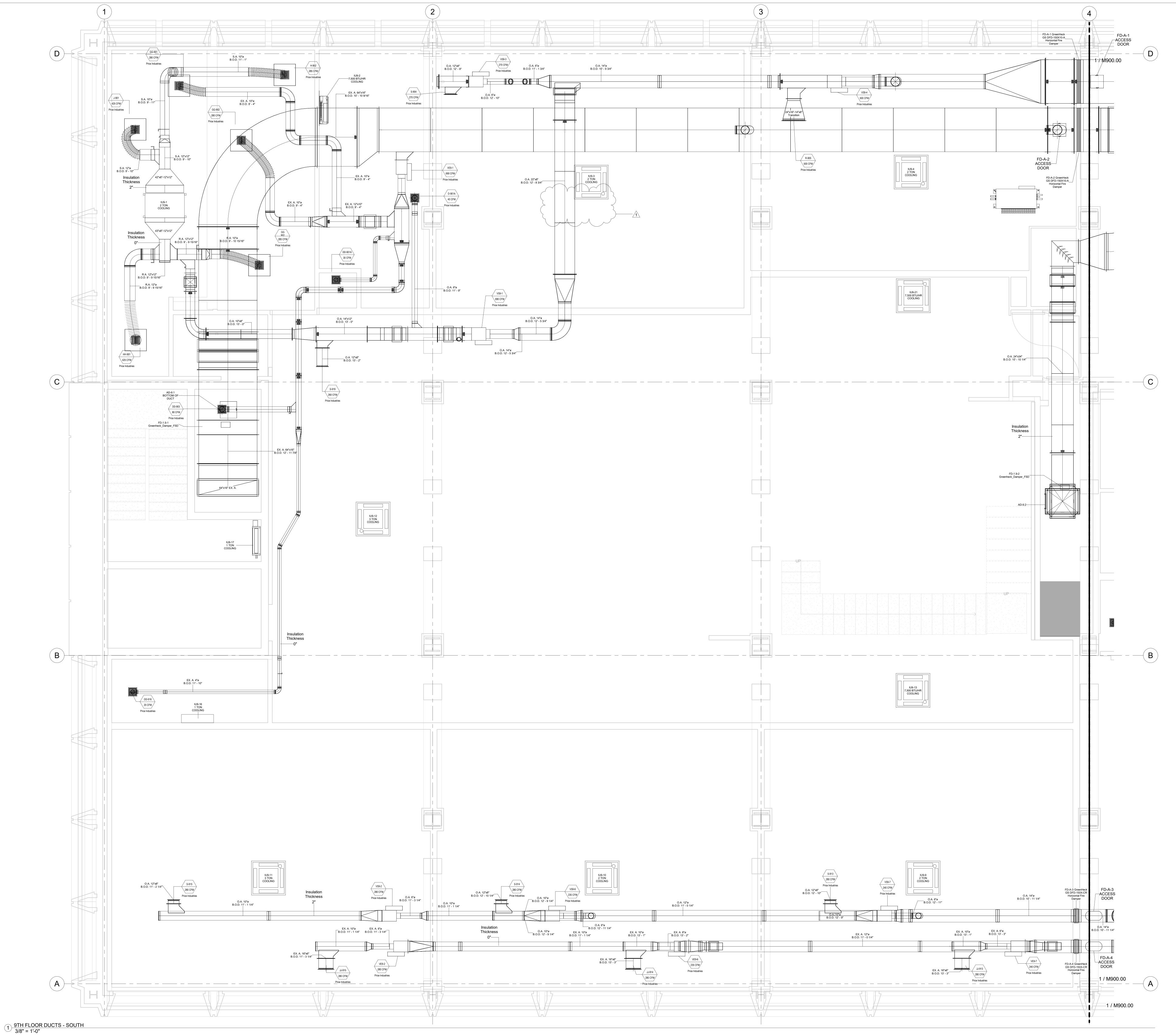
No.	Description	Date
0	Duct changes due to incorrect steel elev	8/25/2021
1	RAISE SPK BRANCH	9/14/2021
2	AS-BUILT	6/20/2022
3	EXHAUST GRILLE NOT NEEDED	4/14/2023

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



E_MS

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

PLAN NORTH ---

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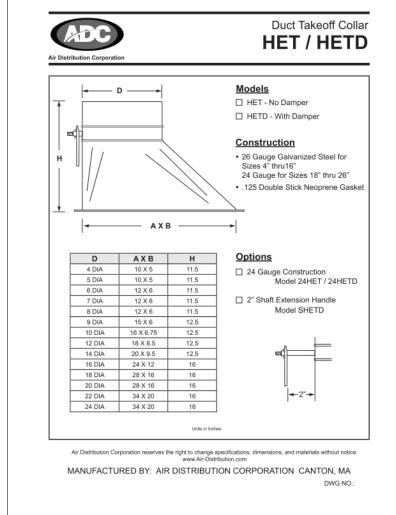
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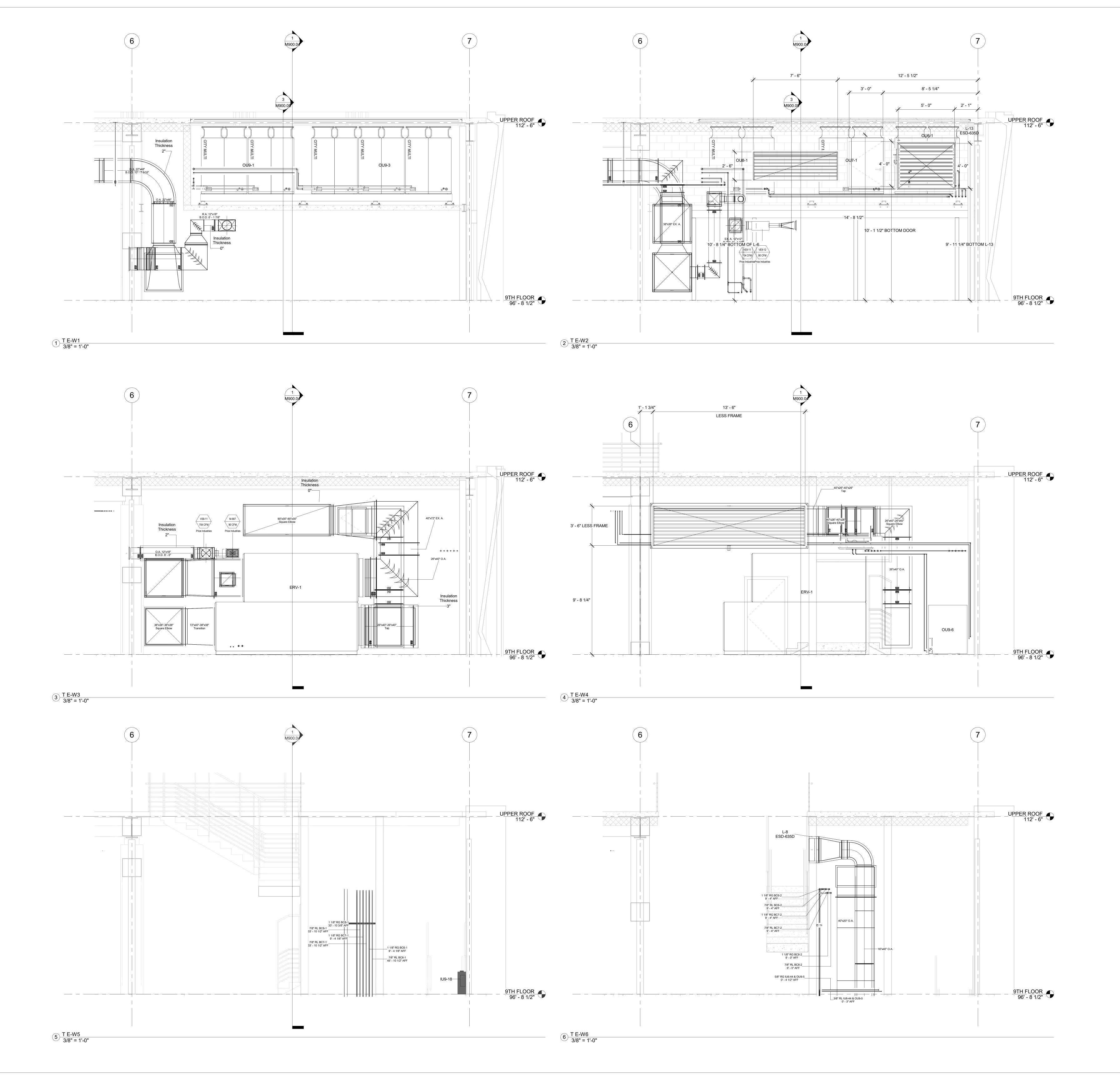
No.	Description	Date
0	Duct changes due to incorrect steel elev	8/25/2021
1	FIELD COORDINATE	9/14/2021
2	AS-BUILT	6/20/2022

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

NINTH FLOOR SOUTH HVAC PART. PLAN

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



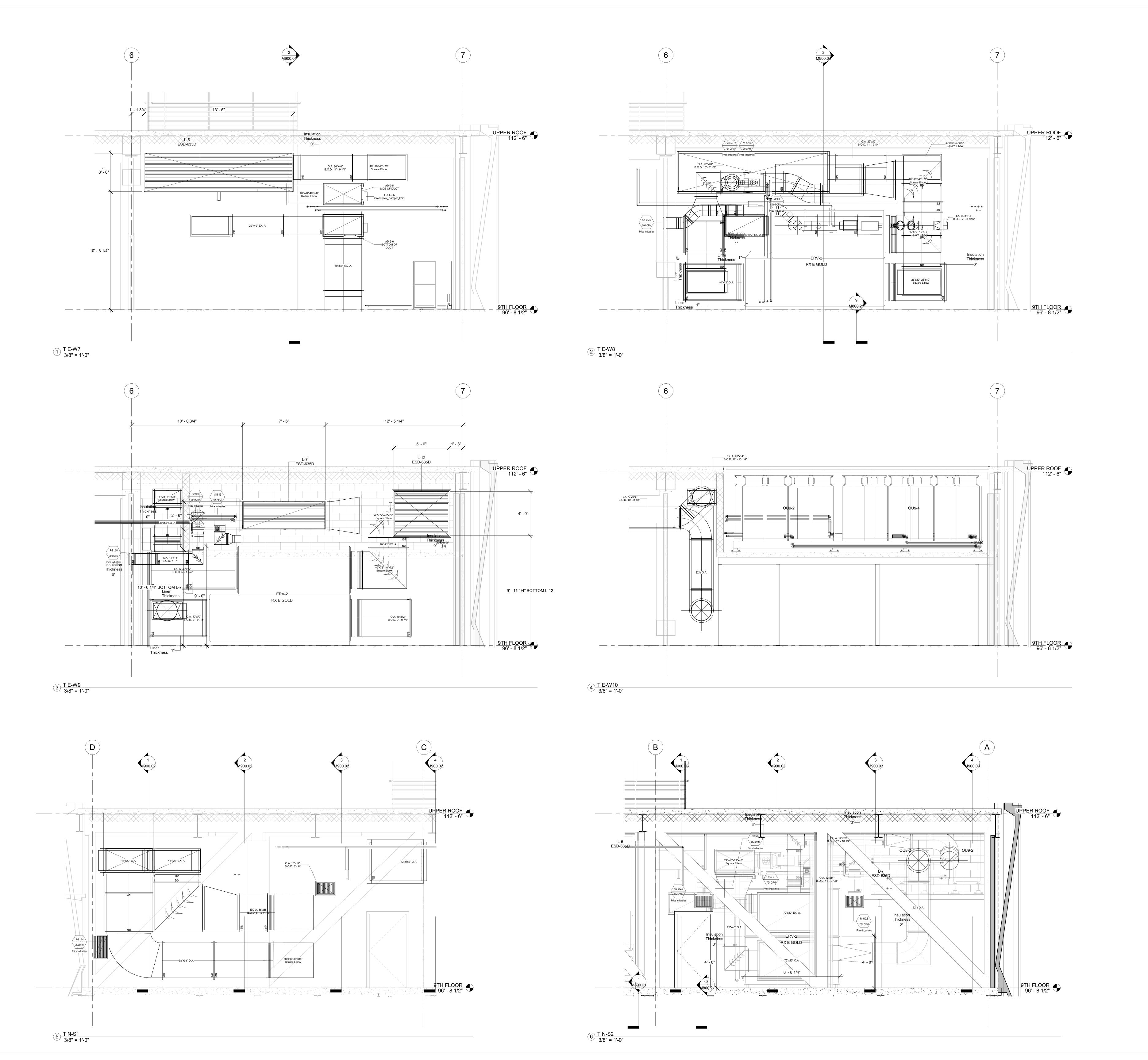


No.	Description	Date
0	AS-BUILT	6/20/2022

PIRELLI HOTEL

NINTH FLOOR SECTIONS

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



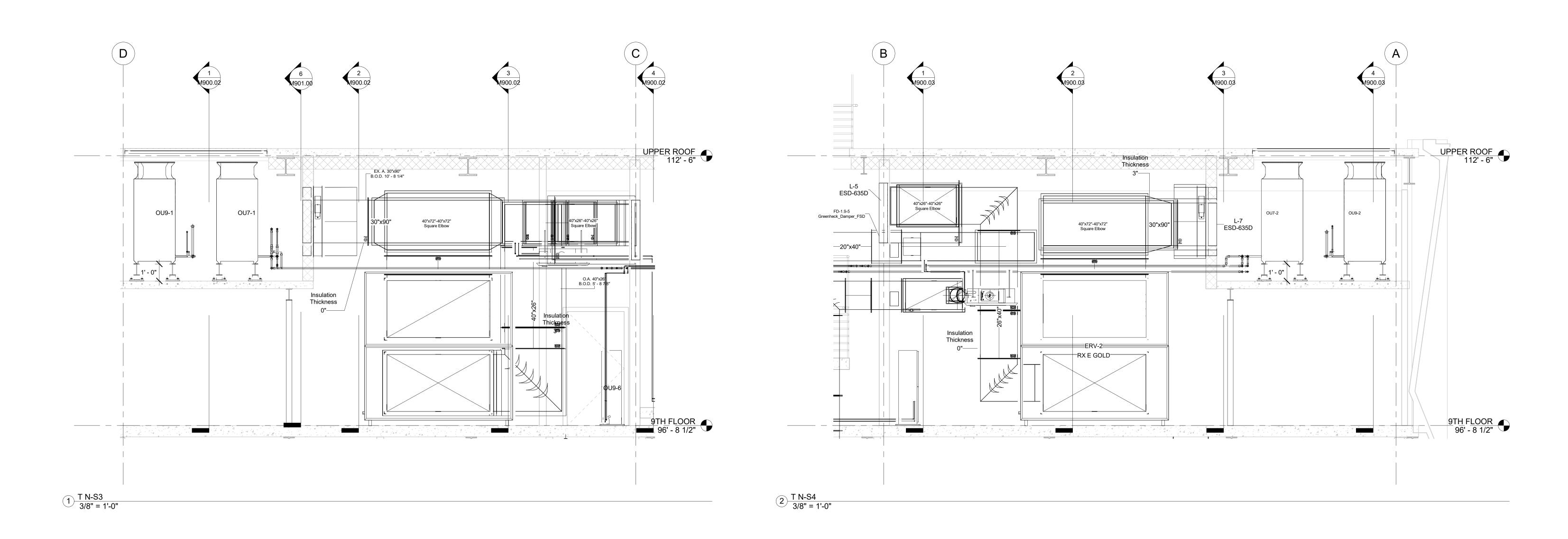


Description	Date
AS-BUILT	6/20/2022
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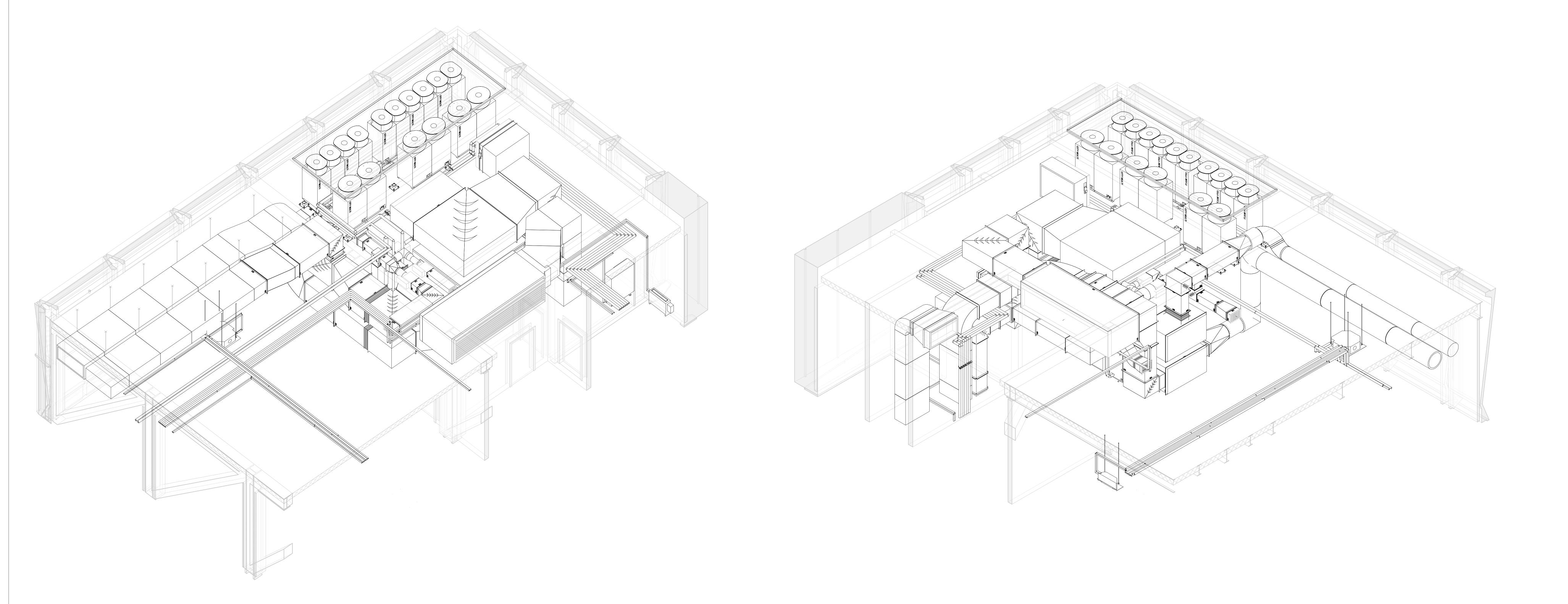
PIRELLI HOTEL

NINTH FLOOR SECTIONS

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



9TH FLOOR NW CORNER MECH ROOM



9TH FLOOR NE CORNER MECH ROOM



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

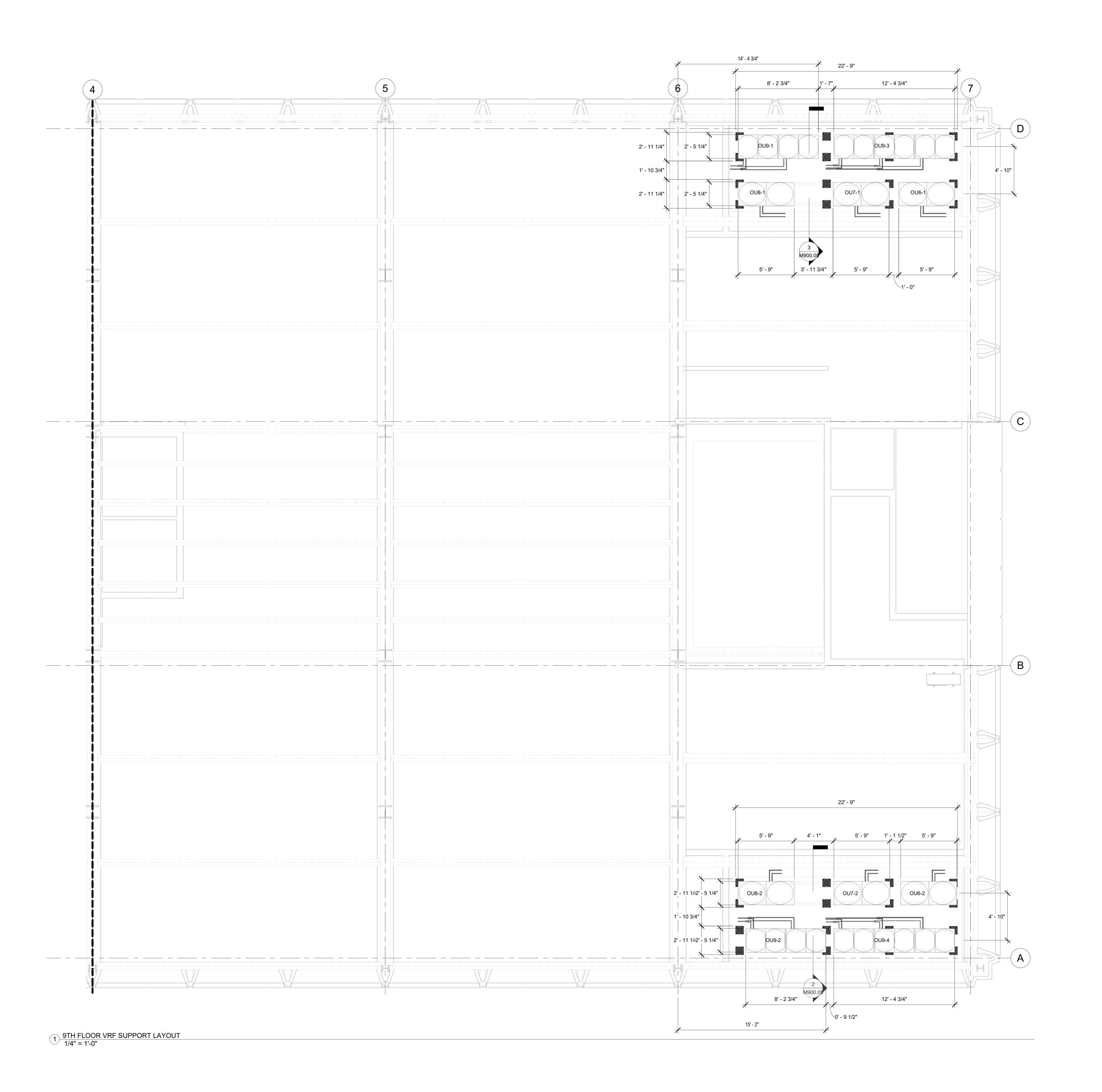
HOTEL MARCELL BY HILTON

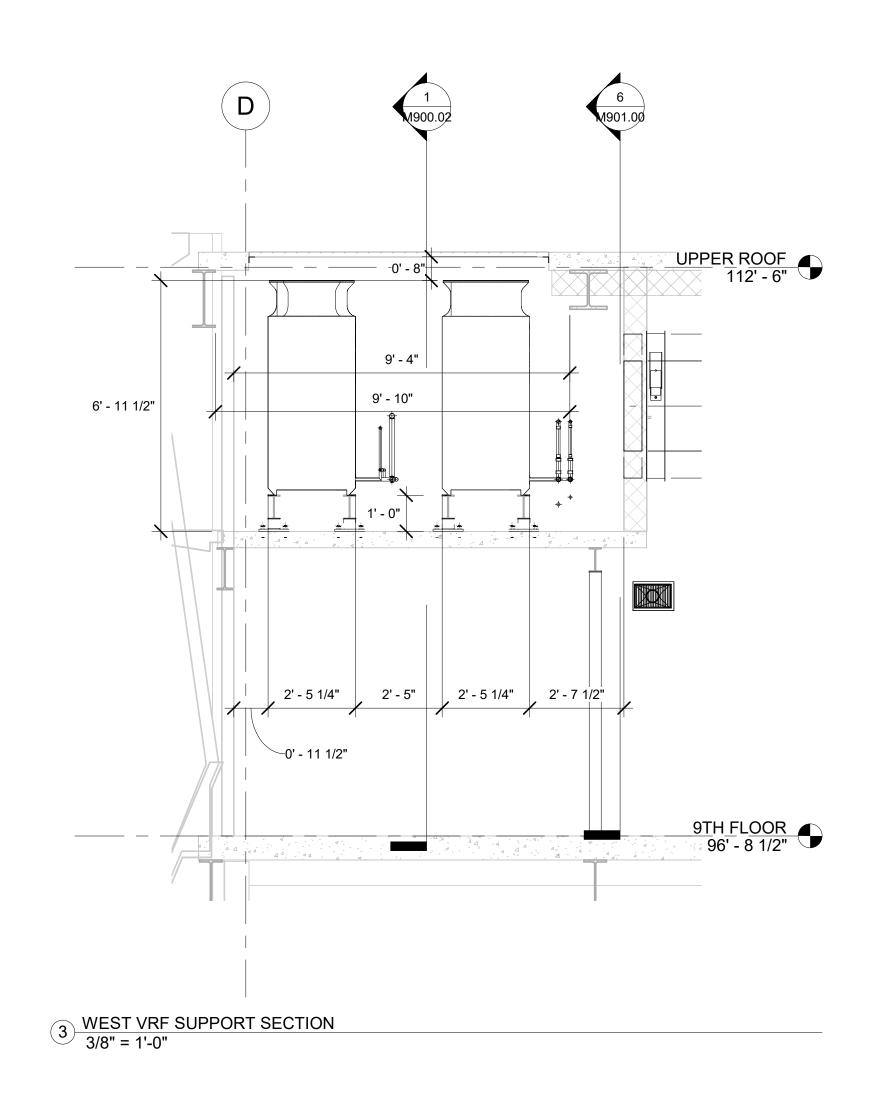
PIRELLI HOTEL

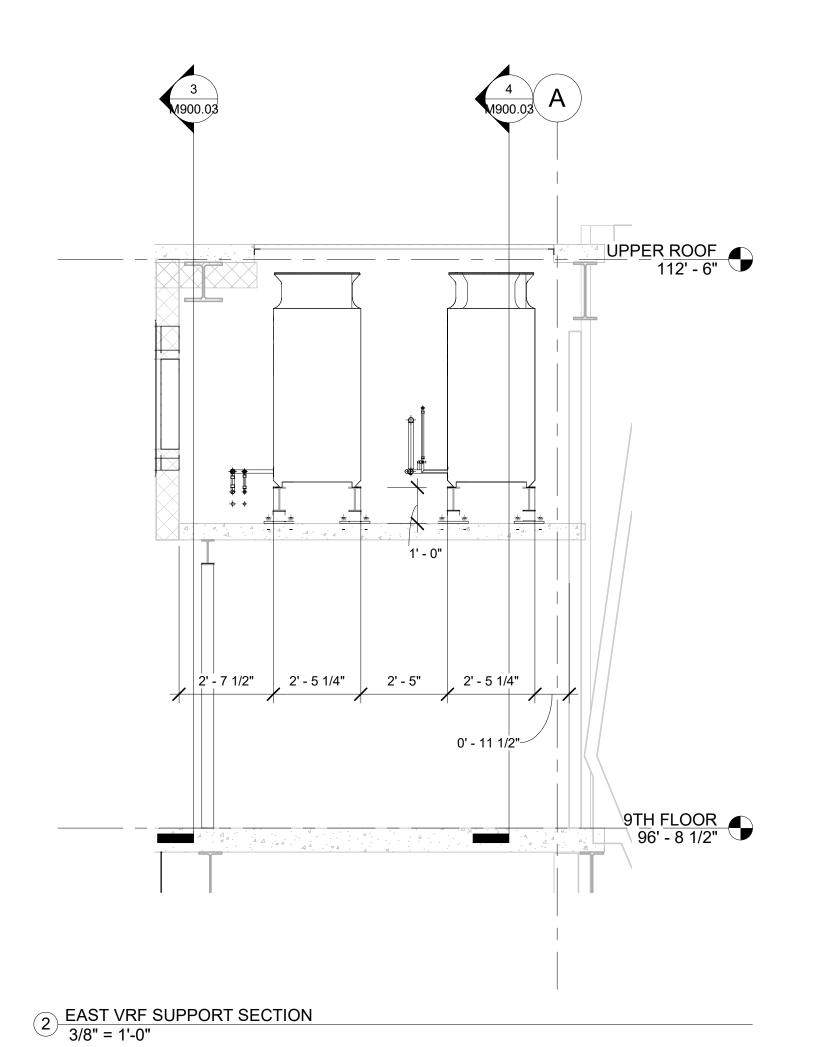
NINTH FLR SECTIONS ISO MECH

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









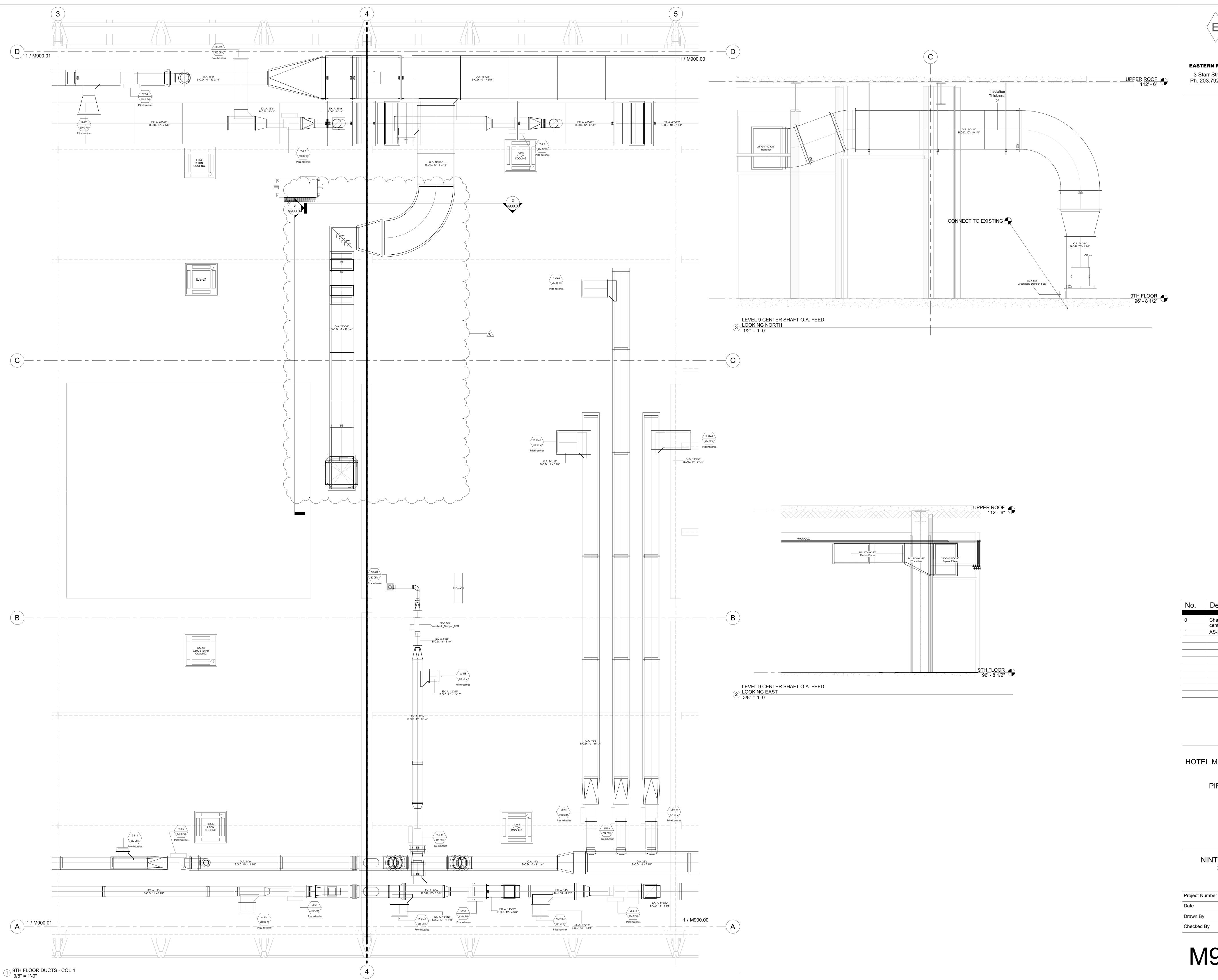
No.	Description	Date
0	AS-BUILT	6/20/2022
	710 50121	OILOILOLL

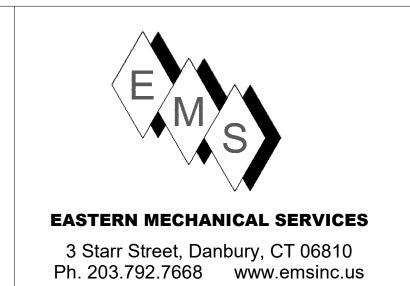
PIRELLI HOTEL

VRF SUPPORT PLAN

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

M900 05



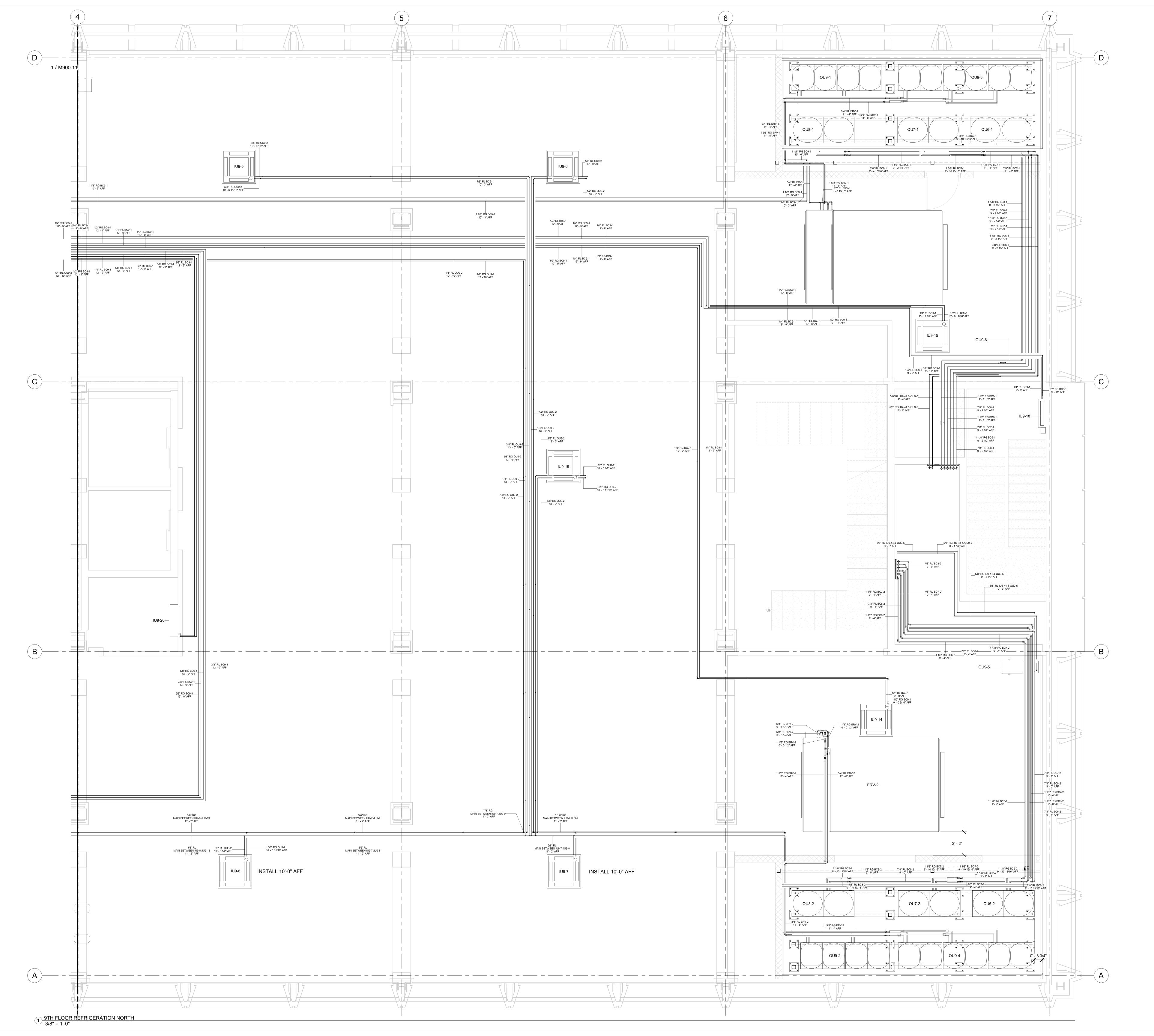


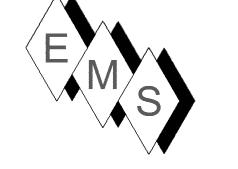
No.	Description	Date
0	Characad Other flags	0/20/2024
0	Changed 9th floor center shaft duct	6/30/2021
1	AS-BUILT	6/20/2022

PIRELLI HOTEL

NINTH FLR CENTER SECTIONS

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





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

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Description ISSUED FOR TERMINAL UNIT LOCATIONS UNIT MOVES LINESET MOVES AS-BUILT

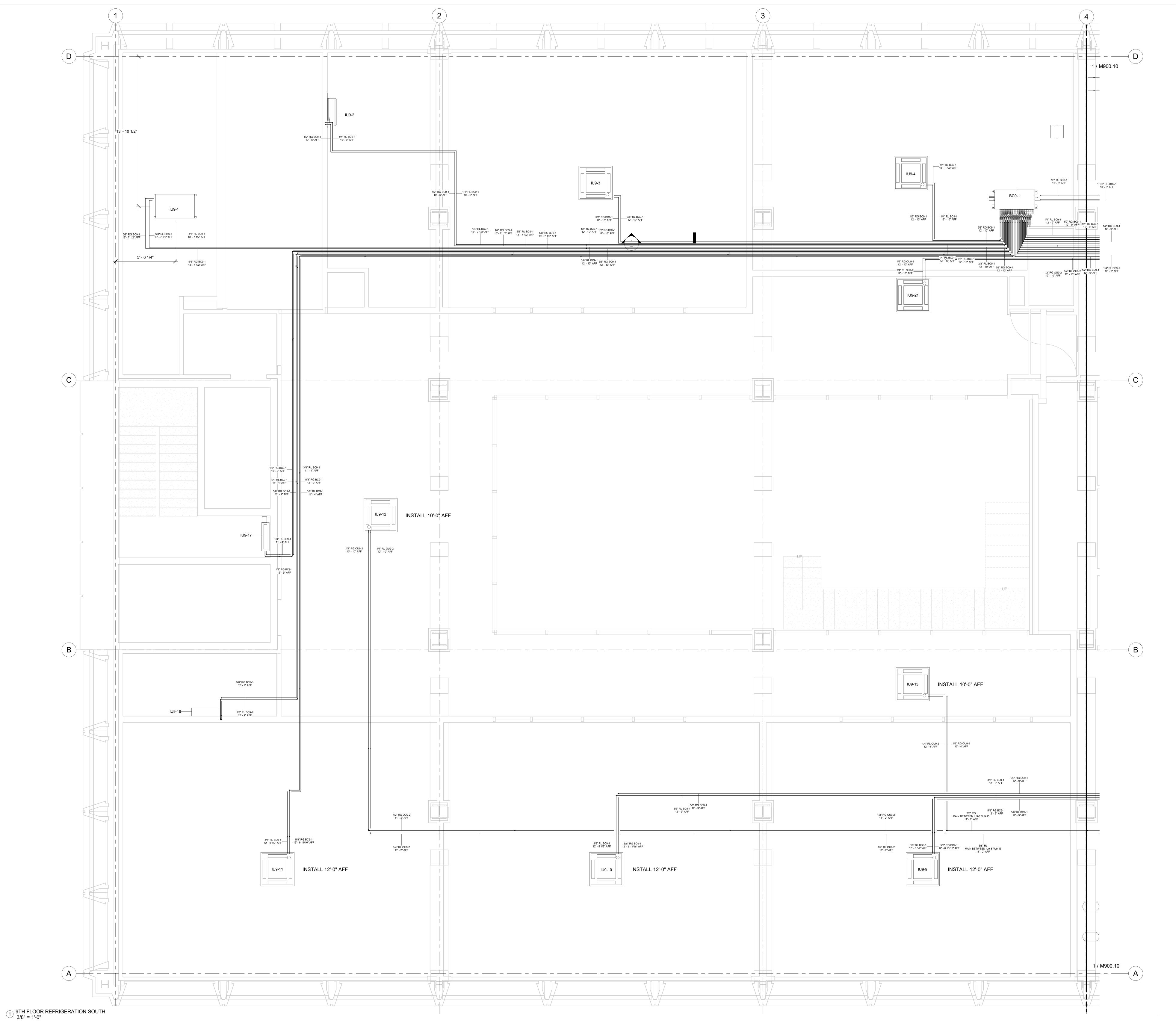
HOTEL MARCELL BY HILTON

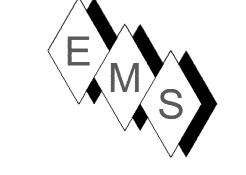
PIRELLI HOTEL

NINTH FLOOR NORTH REFRIG. PIPING PART. PLAN

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

Checked By





PLAN NORTH →

NOTE:

SUBMITTAL BELOW.

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CONTROLLERS TO THE UNITS THEMSELVES AND TO THE ISOLATION

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VALVES LOCATED AT THE BC AND SUB-BC CONTROLLERS.

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No.	Description	Date
0	ISSUED FOR	9/2/2021
	TERMINAL UNIT	
	LOCATIONS	
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	ב כ

		TO 0110 0 MAI	NO	
LE	VEL 9 ERV-1	TO OU9-3 MAI	NS	
DESCRIPTION	DIAMETER	LENGTH	ERV UNIT	
OU9-3 GAS LINE	1 1/8"	2' - 11 7/16"	ERV-1	
OU9-3 GAS LINE	1 5/8"	33' - 8 3/16"	ERV-1	
OU9-3 LIQUID LINE	5/8"	4' - 4 15/16"	ERV-1	
OU9-3 LIQUID LINE	3/4"	32' - 3 1/4"	ERV-1	
Grand total: 28		73' - 3 7/8"		
LEVEL 9 BC9-1 TO OU9-1 MAINS				
DESCRIPTION	DIAMETER	LENGTH	BC-CONTROLLER	

OU9-1 GAS LINE 1 1/8" 82' - 7 3/16" BC9-1 OU9-1 LIQUID LINE 7/8" 82' - 0 5/8" BC9-1 Grand total: 8 164' - 7 13/16"

LEVEL 9 BC9-1 REFRIGERATION PIPING				
BC FROLLER	DESCRIPTION	DIAMETER	LENGTH	
1	IU9-1 GAS LINE	5/8"	94' - 2 11/16"	
1	IU9-1 LIQUID LINE	3/8"	92' - 9 3/8"	
1	IU9-2 GAS LINE	1/2"	86' - 6 3/8"	
1	IU9-2 LIQUID LINE	1/4"	86' - 3 1/16"	
1	IU9-3 GAS LINE	5/8"	47' - 3 13/16"	

L	EVEL 9 BC9-1 REFRIG	ERATION PIPI	NG
BC CONTROLLER	DESCRIPTION	DIAMETER	LENGTH
D00.4	ILIO 4 OAO LINE	E /O!!	041 044/401
BC9-1	IU9-1 GAS LINE	5/8"	94' - 2 11/16"
BC9-1	IU9-1 LIQUID LINE	3/8"	92' - 9 3/8"
BC9-1	IU9-2 GAS LINE	1/2"	86' - 6 3/8"
BC9-1	IU9-2 LIQUID LINE	1/4"	86' - 3 1/16"
BC9-1	IU9-3 GAS LINE	5/8"	47' - 3 13/16"
BC9-1	IU9-3 LIQUID LINE	3/8"	47' - 5 7/8"
BC9-1	IU9-4 GAS LINE	1/2"	7' - 7 1/4"
BC9-1	IU9-4 LIQUID LINE	1/4"	8' - 0"
BC9-1	IU9-9 GAS LINE	5/8"	104' - 4 7/8"
BC9-1	IU9-9 LIQUID LINE	3/8"	105' - 6 5/8"
BC9-1	IU9-10 GAS LINE	5/8"	110' - 2 3/16"
BC9-1	IU9-10 LIQUID LINE	3/8"	133' - 9 11/16"
BC9-1	IU9-11 GAS LINE	5/8"	127' - 11 1/2"
BC9-1	IU9-11 LIQUID LINE	3/8"	131' - 9 7/16"
BC9-1	IU9-14 GAS LINE	1/2"	132' - 8 7/16"
BC9-1	IU9-14 LIQUID LINE	1/4"	132' - 8 3/8"
BC9-1	IU9-15 GAS LINE	1/2"	99' - 9 3/4"
BC9-1	IU9-15 LIQUID LINE	1/4"	99' - 9 5/8"
BC9-1	IU9-16 GAS LINE	5/8"	127' - 0 15/16"
BC9-1	IU9-16 LIQUID LINE	3/8"	129' - 4 3/8"
BC9-1	IU9-17 GAS LINE	1/2"	113' - 3 3/4"
BC9-1	IU9-17 LIQUID LINE	1/4"	113' - 6 5/8"
BC9-1	IU9-18 GAS LINE	1/2"	124' - 1 9/16"
BC9-1	IU9-18 LIQUID LINE	1/4"	124' - 3 5/8"
BC9-1	IU9-20 GAS LINE	1/2"	65' - 8 9/16"
BC9-1	IU9-20 LIQUID LINE	1/4"	65' - 2 1/8"

2511' - 6 11/16"

Grand total: 218

DESCRIPTION	DIAMETER	LENGTH	ERV UNIT
OU9-4 GAS LINE	1 1/8"	20' - 9 13/16"	ERV-2
OU9-4 GAS LINE	1 5/8"	31' - 10 3/8"	ERV-2
OU9-4 LIQUID LINE	5/8"	21' - 4 1/16"	ERV-2
OU9-4 LIQUID LINE	3/4"	33' - 6 1/8"	ERV-2
Grand total: 33		107' - 6 3/8"	

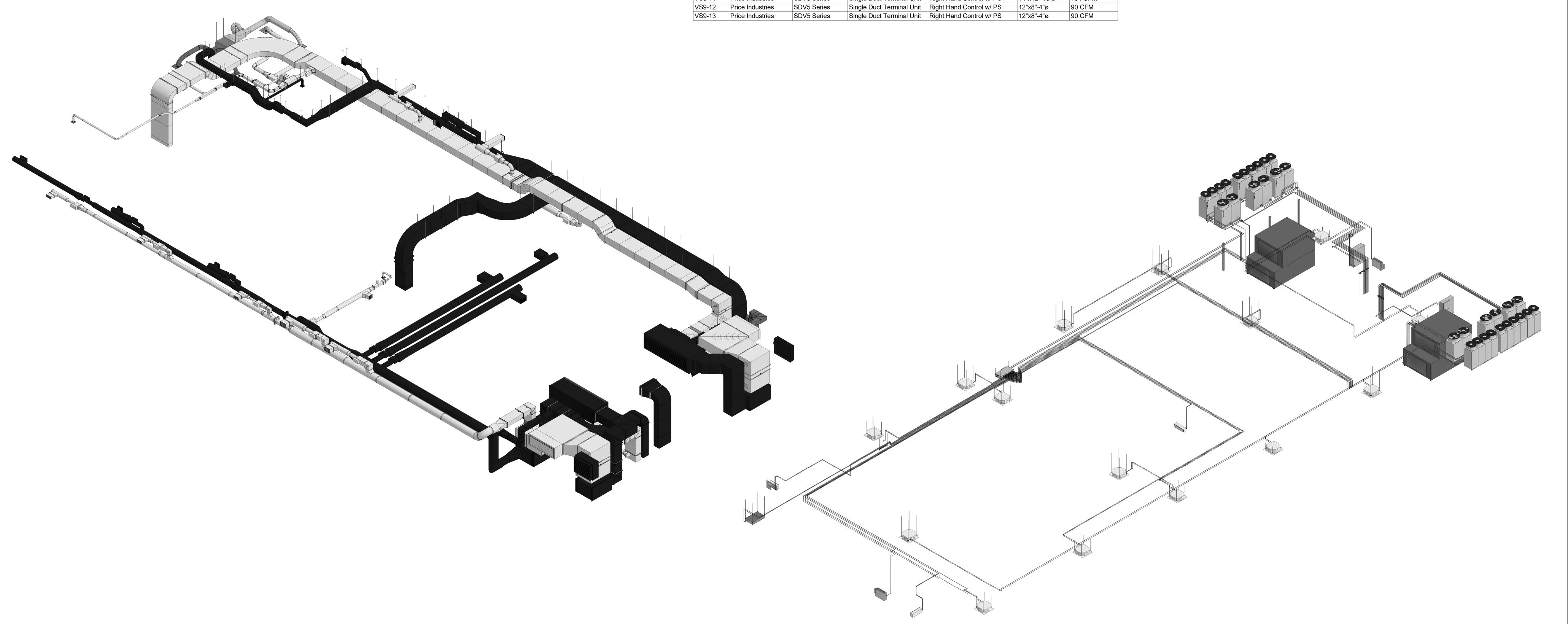
LEVEL 9 ERV-2 TO OU9-4 MAINS

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		
J-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		

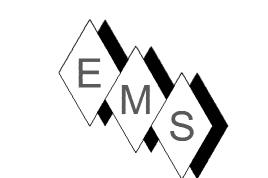
Grand total: 34

	LEVEL 9 MITSUBISHI EQUIPMENT SCHEDULE							
Mark	Manufacturer	Model	COOLING TONNA	AGE			Description	on
IU9-1	Mitsubishi Electric	PEFY-P24NMSU-ER2	2 TON COOLING		Mitsubishi Electric 2400	0 Btu/h, Ceili	ng Concealed-Ducted,	PEFY Series Air Conditioner
IU9-2	Mitsubishi Electric	PKFY-P08NLMU-E	7,500 BTU/HR COOLI	NG	Mitsubishi Electric 8000	Btu/h, Wall N	Mounted, PKFY Series	Air Conditioner
IU9-3	Mitsubishi Electric	PLFY-EP24NEMU-E	2 TON COOLING		Mitsubishi Electric 2400	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-4	Mitsubishi Electric	PLFY-EP24NEMU-E			Mitsubishi Electric 2400	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-5	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-6	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-7	Mitsubishi Electric	PLFY-EP48NEMU-E	4 TON COOLING		Mitsubishi Electric 4800	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-8	Mitsubishi Electric	PLFY-EP36NEMU-E	4 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-9	Mitsubishi Electric	PLFY-EP36NEMU-E	2 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-10	Mitsubishi Electric	PLFY-EP36NEMU-E	2 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-11	Mitsubishi Electric	PLFY-EP36NEMU-E	3 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-12	Mitsubishi Electric	PLFY-EP36NEMU-E	3 TON COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-13	Mitsubishi Electric	PLFY-EP36NEMU-E	7,500 BTU/HR COOLING		Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
IU9-14	Mitsubishi Electric	PLFY-EP18NEMU-E			Mitsubishi Electric 1800	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-15	Mitsubishi Electric	PLFY-EP24NEMU-E			Mitsubishi Electric 2400	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-16	Mitsubishi Electric	PKFY-P12NHMU-E2			Mitsubishi Electric 1200	0 Btu/h, Wall	Mounted, PKFY Series	Air Conditioner
IU9-17	Mitsubishi Electric	PFFY-P12NRMU-E	1 TON COOLING		Mitsubishi Electric 1200	0 Btu/h, PFF	Y Series Air Conditione	r
IU9-18	Mitsubishi Electric	PFFY-P12NRMU-E	1 TON COOLING		Mitsubishi Electric 1200	0 Btu/h, PFF	Y Series Air Conditione	r
IU9-19	Mitsubishi Electric	PLFY-EP30NEMU-E	2.5 TON COOLING		Mitsubishi Electric 3000	0 Btu/h, Ceilii	ng Recessed, Deluxe M	lodel, 4-Way, PLFY Series Air Conditioner
IU9-20	Mitsubishi Electric	PKFY-P12NHMU-E2			Mitsubishi Electric 1200	0 Btu/h, Wall	Mounted, PKFY Series	Air Conditioner
IU9-21	Mitsubishi Electric	PLFY-EP36NEMU-E	7,500 BTU/HR COOLI	NG	Mitsubishi Electric 3600	0 Btu/h, Ceilii	ng Recessed, Delux Mo	odel, 4-Way, PLFY Series Air Conditioner
	LEVEL 9 VAV SCHEDULE							
MARK	MANUFACTURER	MODEL	DESCRIPTION	CON	NTROL ORIENTATION	SIZE	FLOW	
VE9-1	Price Industries		ngle Duct Terminal Unit		Hand Control w/ PS	12"x10"-8"ø		
VE9-2	Price Industries	SDV5 Series Sir	ngle Duct Terminal Unit	Right	Hand Control w/ PS	12"x8"-6"ø	280 CFM	
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			LEVEL 9 VAV SCHE	DULE		
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"ø	690 CFM
VE9-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	280 CFM
VE9-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-6"ø	270 CFM
VE9-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	500 CFM
VE9-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	704 CFM
VE9-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	235 CFM
VE9-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	240 CFM
VE9-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	535 CFM
VE9-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	704 CFM
VE9-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	704 CFM
VE9-11	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	704 CFM
VE9-12	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	90 CFM
VE9-13	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	12"x8"-4"ø	90 CFM
VE9-14	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x10"-8"ø	365 CFM
VS9-1	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	690 CFM
VS9-2	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	280 CFM
VS9-3	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	270 CFM
VS9-4	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	500 CFM
VS9-5	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	704 CFM
VS9-6	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	235 CFM
VS9-7	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	12"x8"-6"ø	240 CFM
VS9-8	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	900 CFM
VS9-9	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	704 CFM
VS9-10	Price Industries	SDV5 Series	Single Duct Terminal Unit	Left Hand Control w/ PS	14"x12"-10"ø	704 CFM
VS9-11	Price Industries	SDV5 Series	Single Duct Terminal Unit	Right Hand Control w/ PS	14"x12"-10"ø	704 CFM



2 9TH FLOOR REFRIGERATION 1 9TH FLOOR DUCTS



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

NOTE:

1. BC9-2 WAS ELIMINATED AND A TEE SYSTEM WAS UTILIZED FOR THE FOLLOWING INDOOR UNITS FROM OU9-2:

IU9-5
IU9-6
IU9-7
IU9-8
IU9-12
IU9-13
IU9-19
IU9-21
SEE MITSUBISHI DIAMOND SYSTEM BUILDER DATA INCLUDED IN THE O&M MANUAL FOR THIS PROJECT.

No.	Description	Date		
0	Duct changes due to	8/25/2021		
	incorrect steel elev			
1	AS-BUILT	6/20/2022		

HOTEL MARCELL BY HILTON

PIRELLI HOTEL

ISO VIEWS & SCHEDULES

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