

405 BROADWAY TI

Nashville, TN

PLUMBING SHEET LIST

SHEET NUMBER	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE	CURRENT REVISION DESCRIPTION
P000	PLUMBING SHEET LIST			
BASEMENT				
P001	BASEMENT PLUMBING WATER SUPPLY LAYOUT - OVERALL	R1	10.26.2023	For Installation
P001.1	BASEMENT PLUMBING WATER SUPPLY LAYOUT - AREA A	R1	10.26.2023	For Installation
P001.2	BASEMENT PLUMBING WATER SUPPLY LAYOUT - AREA B	R1	10.26.2023	For Installation
P002	BASEMENT PLUMBING SANITARY WASTE LAYOUT - OVERALL	R1	10.25.2023	For Installation
P002.1	BASEMENT PLUMBING SANITARY WASTE LAYOUT - AREA A	R1	10.25.2023	For Installation
P002.2	BASEMENT PLUMBING SANITARY WASTE LAYOUT - AREA B	R1	10.25.2023	For Installation
P003	BASEMENT PLUMBING SANITARY VENT LAYOUT - OVERALL	R1	10.25.2023	For Installation
P003.1	BASEMENT PLUMBING SANITARY VENT LAYOUT - AREA A	R1	10.25.2023	For Installation
P003.2	BASEMENT PLUMBING SANITARY VENT LAYOUT - AREA B	R1	10.25.2023	For Installation
P004	BASEMENT PLUMBING SODA LAYOUT OVERALL	R1	10.25.2023	For Installation
P004.1	BASEMENT PLUMBING SODA LAYOUT - AREA A	R1	10.25.2023	For Installation
P004.2	BASEMENT PLUMBING SODA LAYOUT - AREA B	R1	10.25.2023	For Installation
P005	BASEMENT PLUMBING WATER SUPPLY SUPPORT LAYOUT - OVERALL	R1	10.31.2023	For Installation
P005.1	BASEMENT PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA A	R1	10.31.2023	For Installation
P005.2	BASEMENT PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA B	R1	10.31.2023	For Installation
P006	BASEMENT PLUMBING SANITARY SUPPORT LAYOUT - OVERALL	R1	10.31.2023	For Installation
P006.1	BASEMENT PLUMBING SANITARY SUPPORT LAYOUT - AREA A	R1	10.31.2023	For Installation
P006.2	BASEMENT PLUMBING SANITARY SUPPORT LAYOUT - AREA B	R1	10.31.2023	For Installation
P007	BASEMENT PLUMBING SODA SUPPORT LAYOUT - OVERALL	R1	10.31.2023	For Installation
P007.1	BASEMENT PLUMBING SODA SUPPORT LAYOUT - AREA A	R1	10.31.2023	For Installation
P007.2	BASEMENT PLUMBING SODA SUPPORT LAYOUT - AREA B	R1	10.31.2023	For Installation
P008	BASEMENT PLUMBING ISOMETRIC VIEW - OVERALL	R1	10.25.2023	For Installation
P102.5	BASEMENT PLUMBING WALL SLEEVE LAYOUT - AREA A			
P102.6	BASEMENT PLUMBING WALL SLEEVE LAYOUT - AREA B			
LEVEL 01				
P101	LEVEL 01 PLUMBING WATER SUPPLY LAYOUT - OVERALL	R1	11.01.2023	For Installation
P101.1	LEVEL 01 PLUMBING WATER SUPPLY LAYOUT - AREA A	R1	11.01.2023	For Installation
P101.2	LEVEL 01 PLUMBING WATER SUPPLY LAYOUT - AREA B	R1	11.01.2023	For Installation
P102	LEVEL 01 PLUMBING SANITARY WASTE LAYOUT - OVERALL	R1	11.01.2023	For Installation
P102.1	LEVEL 01 PLUMBING SANITARY WASTE LAYOUT - SECTION VIEW	R1	11.01.2023	For Installation
P102.2	LEVEL 01 PLUMBING SANITARY WASTE LAYOUT - AREA A	R1	11.01.2023	For Installation
P102.3	LEVEL 01 PLUMBING SANITARY WASTE LAYOUT - AREA B	R1	11.01.2023	For Installation
P103	LEVEL 01 PLUMBING SANITARY VENT LAYOUT - OVERALL	R1	11.01.2023	For Installation
P103.1	LEVEL 01 PLUMBING SANITARY VENT LAYOUT - AREA A	R1	11.01.2023	For Installation
P103.2	LEVEL 01 PLUMBING SANITARY VENT LAYOUT - AREA B	R1	11.01.2023	For Installation
P104	LEVEL 01 PLUMBING SODA LAYOUT OVERALL	R1	11.01.2023	For Installation
P104.1	LEVEL 01 PLUMBING SODA LAYOUT - AREA A	R1	11.01.2023	For Installation
P104.2	LEVEL 01 PLUMBING SODA LAYOUT - AREA B	R1	11.01.2023	For Installation
P105	LEVEL 01 PLUMBING WATER SUPPLY SUPPORT LAYOUT - OVERALL	R1	11.02.2023	For Installation
P105.1	LEVEL 01 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA A	R1	11.02.2023	For Installation
P105.2	LEVEL 01 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA B	R1	11.02.2023	For Installation
P106	LEVEL 01 PLUMBING SANITARY SUPPORT LAYOUT - OVERALL	R1	11.02.2023	For Installation
P106.1	LEVEL 01 PLUMBING SANITARY SUPPORT LAYOUT - AREA A	R1	11.02.2023	For Installation
P106.2	LEVEL 01 PLUMBING SANITARY SUPPORT LAYOUT - AREA B	R1	11.02.2023	For Installation
P107	LEVEL 01 PLUMBING SLAB PENETRATION LAYOUT - OVERALL	R2	10.03.2023	For Installation
P107.1	LEVEL 01 PLUMBING SLAB PENETRATION LAYOUT - AREA A	R2	10.03.2023	For Installation
P107.2	LEVEL 01 PLUMBING SLAB PENETRATION LAYOUT - AREA B	R2	10.03.2023	For Installation
P109	LEVEL 01 PLUMBING ISOMETRIC VIEW	R1	11.01.2023	For Installation
LEVEL 02				
P201	LEVEL 02 PLUMBING WATER SUPPLY LAYOUT - OVERALL	R1	11.03.2023	For Installation
P201.1	LEVEL 02 PLUMBING WATER SUPPLY LAYOUT - AREA A	R1	11.03.2023	For Installation
P201.2	LEVEL 02 PLUMBING WATER SUPPLY LAYOUT - AREA B	R1	11.03.2023	For Installation
P202	LEVEL 02 PLUMBING SANITARY WASTE LAYOUT - OVERALL	R1	11.03.2023	For Installation
P202.1	LEVEL 02 PLUMBING SANITARY WASTE LAYOUT - AREA A	R1	11.03.2023	For Installation
P202.2	LEVEL 02 PLUMBING SANITARY WASTE LAYOUT - AREA B	R1	11.03.2023	For Installation
P202.3	LEVEL 02 PLUMBING SANITARY WASTE & VENT LAYOUT - SECTION VIEW	R0	11.03.2023	For Installation
P203	LEVEL 02 PLUMBING SANITARY VENT LAYOUT - OVERALL	R0	11.03.2023	For Installation
P203.1	LEVEL 02 PLUMBING SANITARY VENT LAYOUT - AREA A	R0	11.03.2023	For Installation
P203.2	LEVEL 02 PLUMBING SANITARY VENT LAYOUT - AREA B	R0	11.03.2023	For Installation
P204	LEVEL 02 PLUMBING SODA LAYOUT - OVERALL	R1	11.03.2023	For Installation
P204.1	LEVEL 02 PLUMBING SODA LAYOUT - AREA A	R1	11.03.2023	For Installation
P204.2	LEVEL 02 PLUMBING SODA LAYOUT - AREA B	R1	11.03.2023	For Installation
P205	LEVEL 02 PLUMBING WATER SUPPLY SUPPORT LAYOUT - OVERALL	R0	11.03.2023	For Installation
P205.1	LEVEL 02 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA A	R0	11.03.2023	For Installation
P205.2	LEVEL 02 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA B	R0	11.03.2023	For Installation
P206	LEVEL 02 PLUMBING SANITARY SUPPORT LAYOUT - OVERALL	R0	11.03.2023	For Installation
P206.1	LEVEL 02 PLUMBING SANITARY SUPPORT LAYOUT - AREA A	R0	11.03.2023	For Installation
P206.2	LEVEL 02 PLUMBING SANITARY SUPPORT LAYOUT - AREA B	R0	11.03.2023	For Installation
P207	LEVEL 02 PLUMBING SLAB PENETRATION LAYOUT - OVERALL	R4	10.16.2023	For Installation
P207.1	LEVEL 02 PLUMBING SLAB PENETRATION LAYOUT - AREA A	R4	10.16.2023	For Installation
P207.2	LEVEL 02 PLUMBING SLAB PENETRATION LAYOUT - AREA B	R4	10.16.2023	For Installation
P208	LEVEL 02 PLUMBING ISOMETRIC VIEW	R0	09.22.2023	For Design Review
LEVEL 03				
P301	LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - OVERALL	R1	11.09.2023	For Installation
P301.1	LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - AREA A	R1	11.09.2023	For Installation
P301.2	LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - AREA B	R1	11.09.2023	For Installation
P302	LEVEL 03 PLUMBING SANITARY WASTE LAYOUT - OVERALL	R1	11.09.2023	For Installation
P302.1	LEVEL 03 PLUMBING SANITARY WASTE LAYOUT - AREA A	R1	11.09.2023	For Installation
P302.2	LEVEL 03 PLUMBING SANITARY WASTE LAYOUT - AREA B	R0	09.27.2023	For Design Review
P303	LEVEL 03 PLUMBING SANITARY VENT LAYOUT - OVERALL	R1	11.09.2023	For Installation
P303.1	LEVEL 03 PLUMBING SANITARY VENT LAYOUT - AREA A	R1	11.09.2023	For Installation
P303.2	LEVEL 03 PLUMBING SANITARY VENT LAYOUT - AREA B	R1	11.09.2023	For Installation
P304	LEVEL 03 PLUMBING SODA LAYOUT - OVERALL	R1	11.09.2023	For Installation
P304.1	LEVEL 03 PLUMBING SODA LAYOUT - AREA A	R1	11.09.2023	For Installation
P304.2	LEVEL 03 PLUMBING SODA LAYOUT - AREA B	R1	11.09.2023	For Installation
P305	LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT - OVERALL	R0	11.09.2023	For Installation
P305.1	LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA B	R0	11.09.2023	For Installation
P306	LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - OVERALL	R0	11.09.2023	For Installation
P306.1	LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - AREA B	R0	11.09.2023	For Installation
P306.2	LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - AREA B	R2	10.16.2023	For Installation
P307	LEVEL 03 PLUMBING SLAB PENETRATION LAYOUT - OVERALL	R2	10.16.2023	For Installation
P307.1	LEVEL 03 PLUMBING SLAB PENETRATION LAYOUT - AREA A	R2	10.16.2023	For Installation
P307.2	LEVEL 03 PLUMBING SLAB PENETRATION LAYOUT - AREA B	R2	10.16.2023	For Installation
P308	LEVEL 03 PLUMBING ISOMETRIC VIEW OVERALL	R1	11.09.2023	For Installation
LEVEL 04				
P401	LEVEL 04 WATER SUPPLY LAYOUT - OVERALL	R0	10.09.2023	For Design Review
P401.1	LEVEL 04 WATER SUPPLY LAYOUT - AREA-A	R0	10.09.2023	For Design Review
P401.2	LEVEL 04 WATER SUPPLY LAYOUT - AREA-B	R0	10.09.2023	For Design Review
P402	LEVEL 04 SANITARY WASTE LAYOUT - OVERALL	R0	10.09.2023	For Design Review
P402.1	LEVEL 04 SANITARY WASTE LAYOUT - AREA-A	R0	10.09.2023	For Design Review



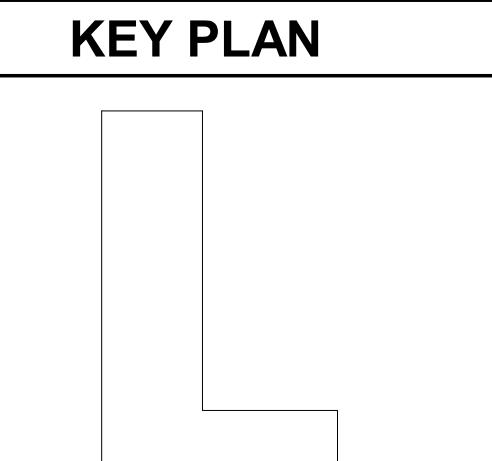
MERRYMAN-FARR, LLC.
MECHANICAL CONTRACTORS
305 Hill Ave, Nashville, TN 37210

VCONSTRUCT
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Development & Construction Company Ltd. IT & ITES,
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PLUMBING DRAWINGS



PROJECT NORTH

PRINTED DATE: 11/9/2023 6:35:31 PM

REVISIONS:

Revision Schedule

Revision Number Revision Description Revision Date

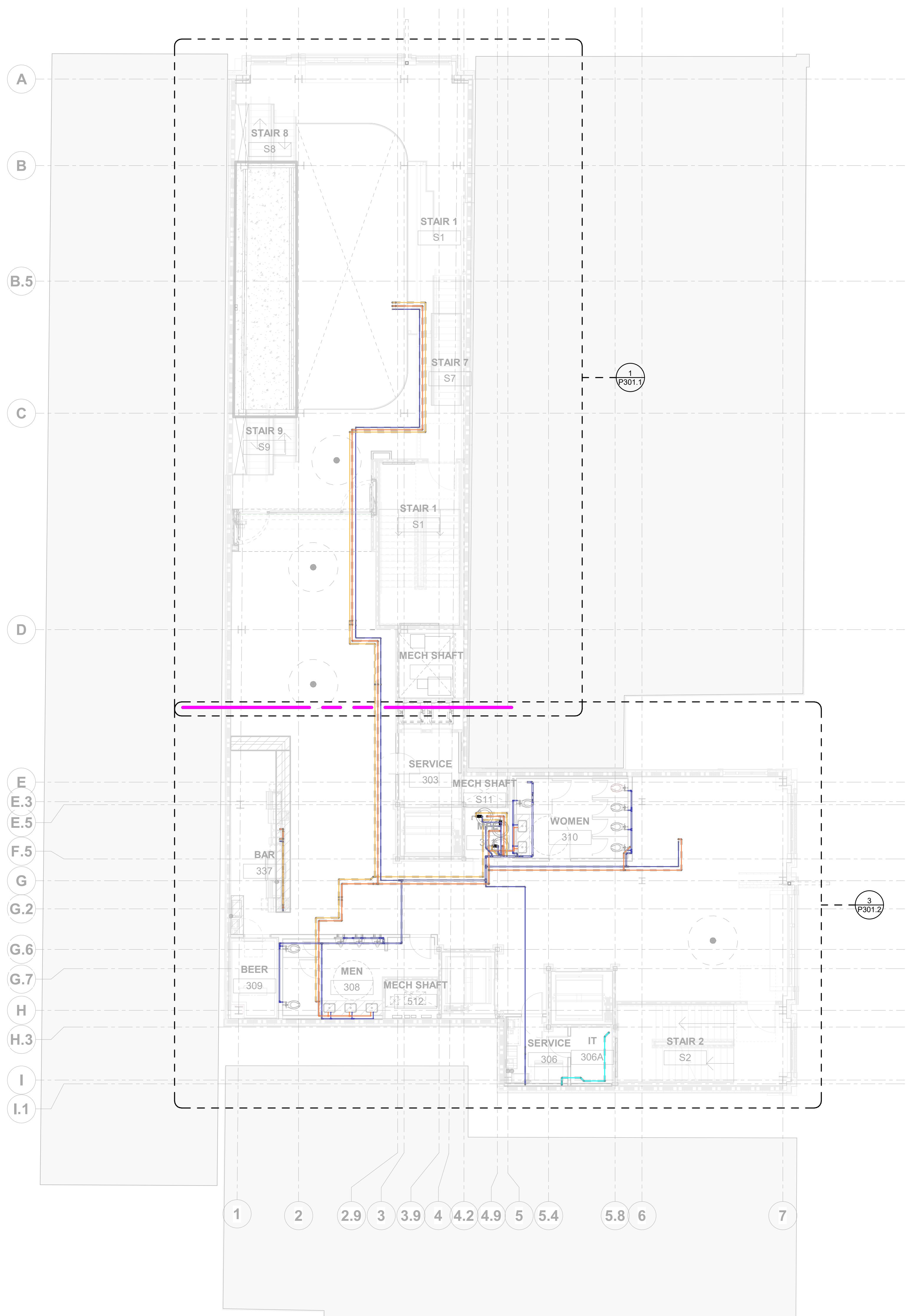


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Nashville, TN

PLUMBING SHOP DRAWINGS



LEVEL 03 WATER SUPPLY PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
COPPER	P-Domestic Cold Water	1 1/2"ø	98.4
COPPER	P-Domestic Cold Water	1 1/4"ø	58.1
COPPER	P-Domestic Cold Water	1"ø	37.3
COPPER	P-Domestic Cold Water	1/2"ø	151.9
COPPER	P-Domestic Cold Water	2"ø	33.8
COPPER	P-Domestic Cold Water	3/4"ø	43.9
COPPER	P-Filtered Water	3/4"ø	51.0
COPPER	P-Domestic Hot Water	1"ø	68.7
COPPER	P-Domestic Hot Water	1/2"ø	46.7
COPPER	P-Domestic Hot Water	3/4"ø	188.1
COPPER	P-Domestic Hot Water Return	1/2"ø	186.6
COPPER	P-Domestic Hot Water Return	3/4"ø	29.9

LEVEL 3 WATER SUPPLY PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Elbow - Generic	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	1
Elbow - Generic	P-Domestic Cold Water	1"ø-1"ø	1
Elbow - Generic	P-Domestic Cold Water	1/2"ø-1/2"ø	1
Elbow - Generic	P-Domestic Hot Water	1/2"ø-1/2"ø	1
Elbow - Generic	P-Domestic Hot Water	3/4"ø-3/4"ø	1
Elbow - Generic	P-Domestic Hot Water Return	3/4"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"ø-1 1/4"ø	3
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/4"ø-1/2"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1"ø-3/4"ø	2
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	2"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Hot Water	1"ø-3/4"ø	3
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	3/4"ø-1/2"ø	3
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	2"ø-1/2"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	2"ø-3/4"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	1"ø-3/4"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	3/4"ø-1/2"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø	10
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"ø-1 1/4"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	17
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	1"ø-1"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	1/2"ø-1/2"ø	15
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	2"ø-2"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Cold Water	3/4"ø-3/4"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Hot Water	1"ø-1"ø	5
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Hot Water	1/2"ø-1/2"ø	13
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"ø-1/2"ø	1
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"ø-3/4"ø	12
Nibco CU 607-90 Elbow Close Rough C x C	P-Domestic Hot Water Return	1/2"ø-1/2"ø	11
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø	6
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	3
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	1"ø-1"ø	7
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	1/2"ø-1/2"ø	10
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	2"ø-2"ø	8
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Cold Water	3/4"ø-3/4"ø	5
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Hot Water	1"ø-1"ø	4
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Hot Water	1/2"ø-1/2"ø	1
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø	17
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	1/2"ø-1/2"ø	22
Nibco CU 607-90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	3/4"ø-3/4"ø	4
Nibco CU 607-90 Elbow Close Rough C x C1	P-FILTERED Water	3/4"ø-3/4"ø	9
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1 1/4"ø	7
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø-1/2"ø	4
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1 1/2"ø	2
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1 1/4"ø	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1"ø	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	1"ø-1"ø-3/4"ø	3
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	3/4"ø-3/4"ø-1/2"ø	5
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1"ø-1"ø-1/2"ø	2
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø-1/2"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1 1/2"ø	2
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	2"ø-2"ø-2"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø-3/4"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water Return	1/2"ø-1/2"ø-1/2"ø	1

WATER SUPPLY LEGENDS AND SYMBOLS	
█	DOMESTIC COLD WATER
█	DOMESTIC HOT WATER
█	DOMESTIC HOT WATER RETURN
█	FILTERED WATER
█	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
FW	FILTERED WATER
BOP	BOTTOM OF PIPE
IV	ISOLATION VALVE

GENERAL NOTES :

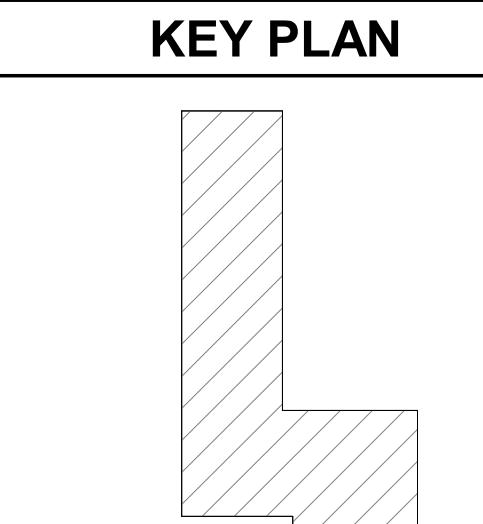
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED WHILE DIMENSIONING.
4. ALL ELEVATIONS ARE PROVIDED WITH REFERENCE TO 'LEVEL 03'.
5. INSULATIONS ARE AS FOLLOWS:

 - DCW- 1/2"
 - DHW- 1"
 - FW- 1"

6. SLOPE VALUES ARE AS FOLLOWS :

 - FOR VENT - 1/8" / 1'
 - FOR SANITARY - 1/4" / 1'
 - FOR AIR - 1/4" / 1/4" / 1'
 - BELOW 3" - 1/4" / 1'

SHEET NAME: LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - OVERALL
SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER: P301



PROJECT NORTH

PRINTED DATE: 11/9/2023 4:51:22 PM

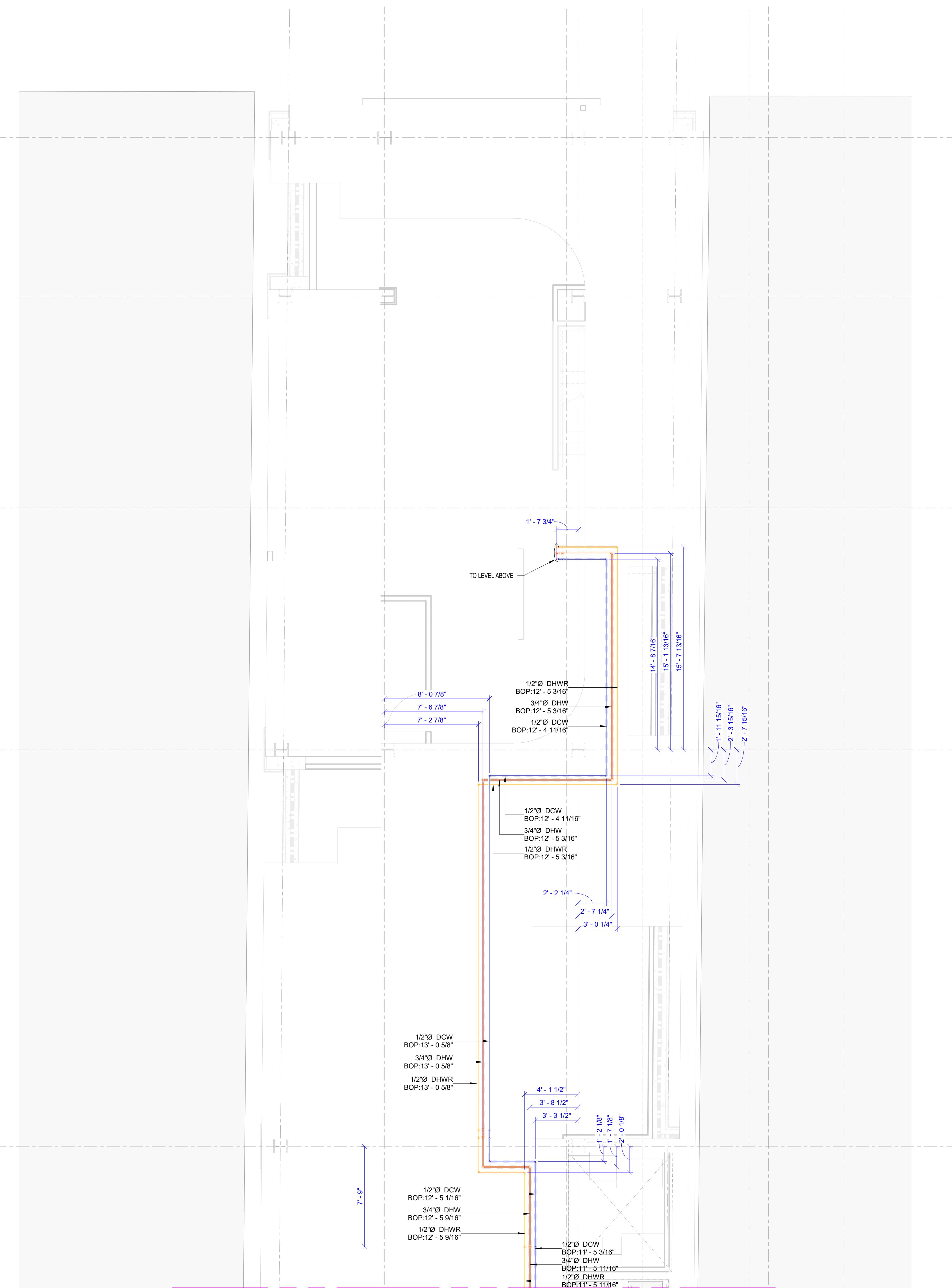
REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023



VConstruct Pvt. Ltd. SEZ Unit 1
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LEVEL 03 WATER SUPPLY PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
COPPER	P-Domestic Cold Water	1 1/2"	98.4
COPPER	P-Domestic Cold Water	1 1/4"	58.1
COPPER	P-Domestic Cold Water	1"	37.3
COPPER	P-Domestic Cold Water	1/2"	151.9
COPPER	P-Domestic Cold Water	2"	33.8
COPPER	P-Domestic Cold Water	3/4"	43.9
COPPER	P-Filtered Water	3/4"	51.0
COPPER	P-Domestic Hot Water	1"	68.7
COPPER	P-Domestic Hot Water	1/2"	46.7
COPPER	P-Domestic Hot Water	3/4"	188.1
COPPER	P-Domestic Hot Water Return	1/2"	186.6
COPPER	P-Domestic Hot Water Return	3/4"	29.9

LEVEL 3 WATER SUPPLY PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Elbow - Generic	P-Domestic Cold Water	1 1/4"-1 1/4"	1
Elbow - Generic	P-Domestic Cold Water	1"-1"	1
Elbow - Generic	P-Domestic Cold Water	1/2"-1/2"	1
Elbow - Generic	P-Domestic Hot Water	1/2"-1/2"	1
Elbow - Generic	P-Domestic Hot Water	3/4"-3/4"	1
Elbow - Generic	P-Domestic Hot Water Return	3/4"-3/4"	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"-1 1/4"	3
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"-3/4"	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/4"-1/2"	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1"-3/4"	2
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	2"-3/4"	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Hot Water	1"-3/4"	3
Nibco CU 600 Reducing Coupling C x C	P-Domestic Hot Water	3/4"-1/2"	3
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	1 1/2"-1 1/2"	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	2"-1/2"	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	1"-3/4"	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	3/4"-1/2"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"-1 1/2"	10
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"-1 1/4"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/4"-1 1/4"	17
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1"-1"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1/2"-1/2"	15
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	2"-2"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	3/4"-3/4"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	1"-1"	5
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	1/2"-1/2"	13
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"-1/2"	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"-3/4"	12
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water Return	1/2"-1/2"	11
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/2"-1 1/2"	6
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/4"-1 1/4"	3
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1"-1"	7
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1/2"-1/2"	10
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	2"-2"	8
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	3/4"-3/4"	5
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	1"-1"	4
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	1/2"-1/2"	1
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	3/4"-3/4"	17
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	1/2"-1/2"	22
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	3/4"-3/4"	4
Nibco CU 607 90 Elbow Close Rough C x C1	P-Filtered Water	3/4"-3/4"	9
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/2"-1 1/2"-1 1/4"	7
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/4"-1 1/4"-1/2"	4
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"-2"-1 1/2"	2
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"-2"-1 1/4"	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"-2"-1"	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	1"-1"-3/4"	3
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	3/4"-3/4"-1/2"	5
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1 1/2"-1 1/2"-1/2"	1
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1"-1"-1/2"	2
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Hot Water	3/4"-3/4"-1/2"	1
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	1 1/2"-1 1/2"-1 1/2"	2
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	2"-2"-2"	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water	3/4"-3/4"-3/4"	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water Return	1/2"-1/2"-1/2"	1

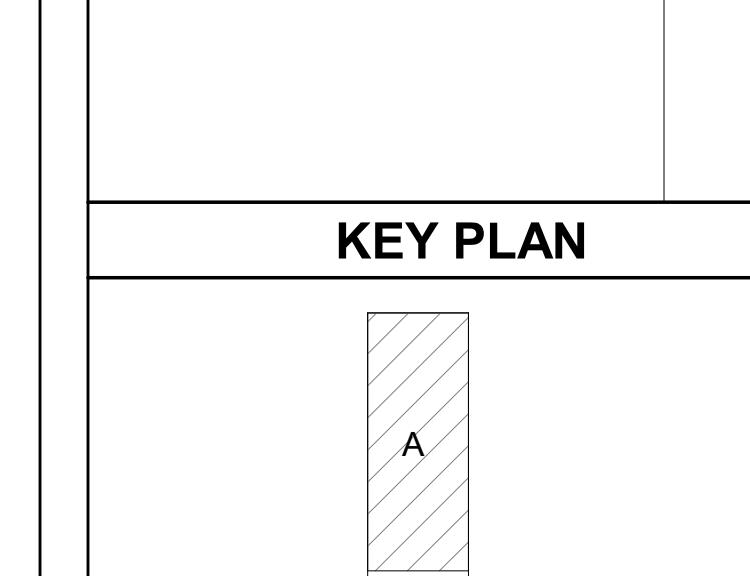
WATER SUPPLY LEGENDS AND SYMBOLS	
█	DOMESTIC COLD WATER
█	DOMESTIC HOT WATER
█	DOMESTIC HOT WATER RETURN
█	FILTERED WATER
●	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
FW	FILTERED WATER
BOP	BOTTOM OF PIPE
IV	ISOLATION VALVE

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED FROM THESE DIMENSIONS.
4. ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO 'LEVEL 03'.
5. INSULATIONS ARE AS FOLLOWS :
 - DCW- 1/2"
 - DHW- 1"
 - DHWR- 1"
6. SLOPE VALUES ARE AS FOLLOWS :
 - FOR VENT - 1/8" / 1'
 - FOR DRAIN - 1/8" / 1'
 - 3" # ABOVE / 1/8" / 1'
 - BELOW 3" - 1/4" / 1'

SHEET NAME: LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - AREA A
SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:
P301.1



PRINTED DATE: 11/9/2023 4:51:26 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

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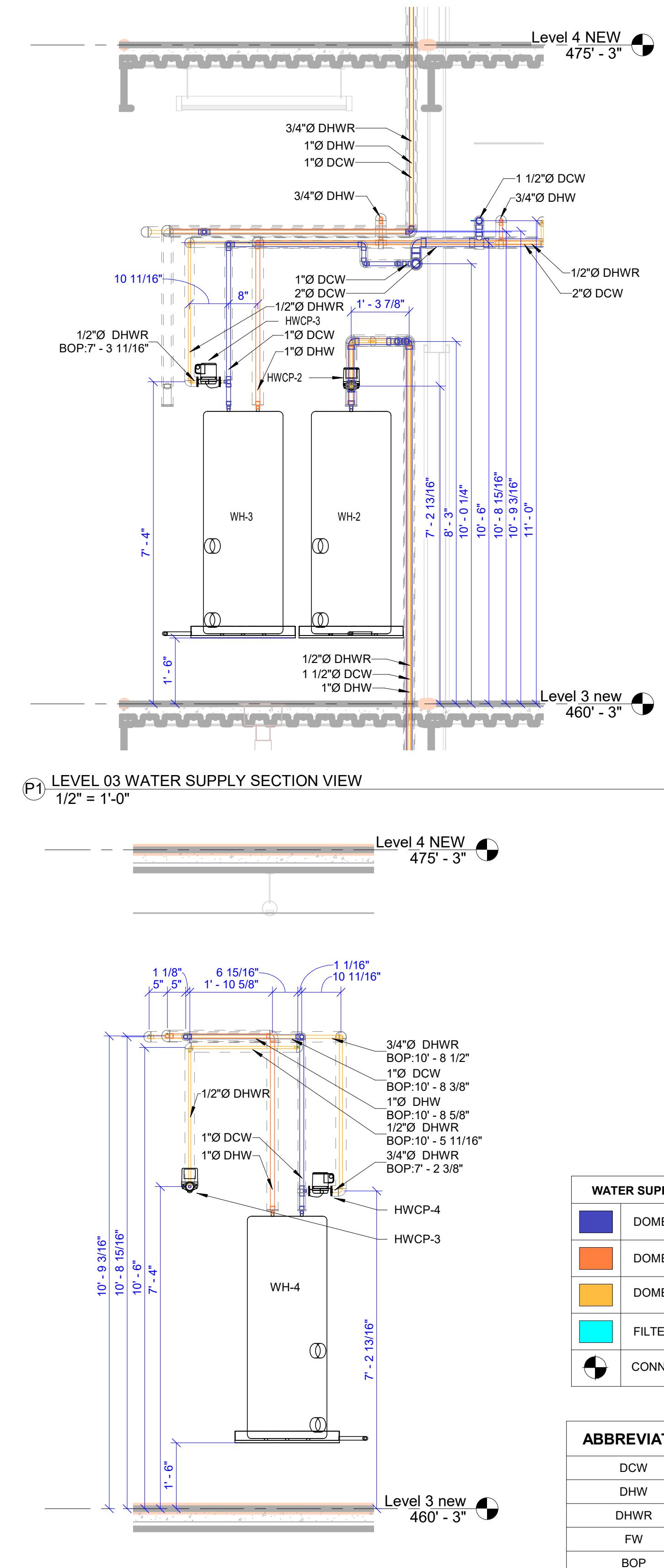
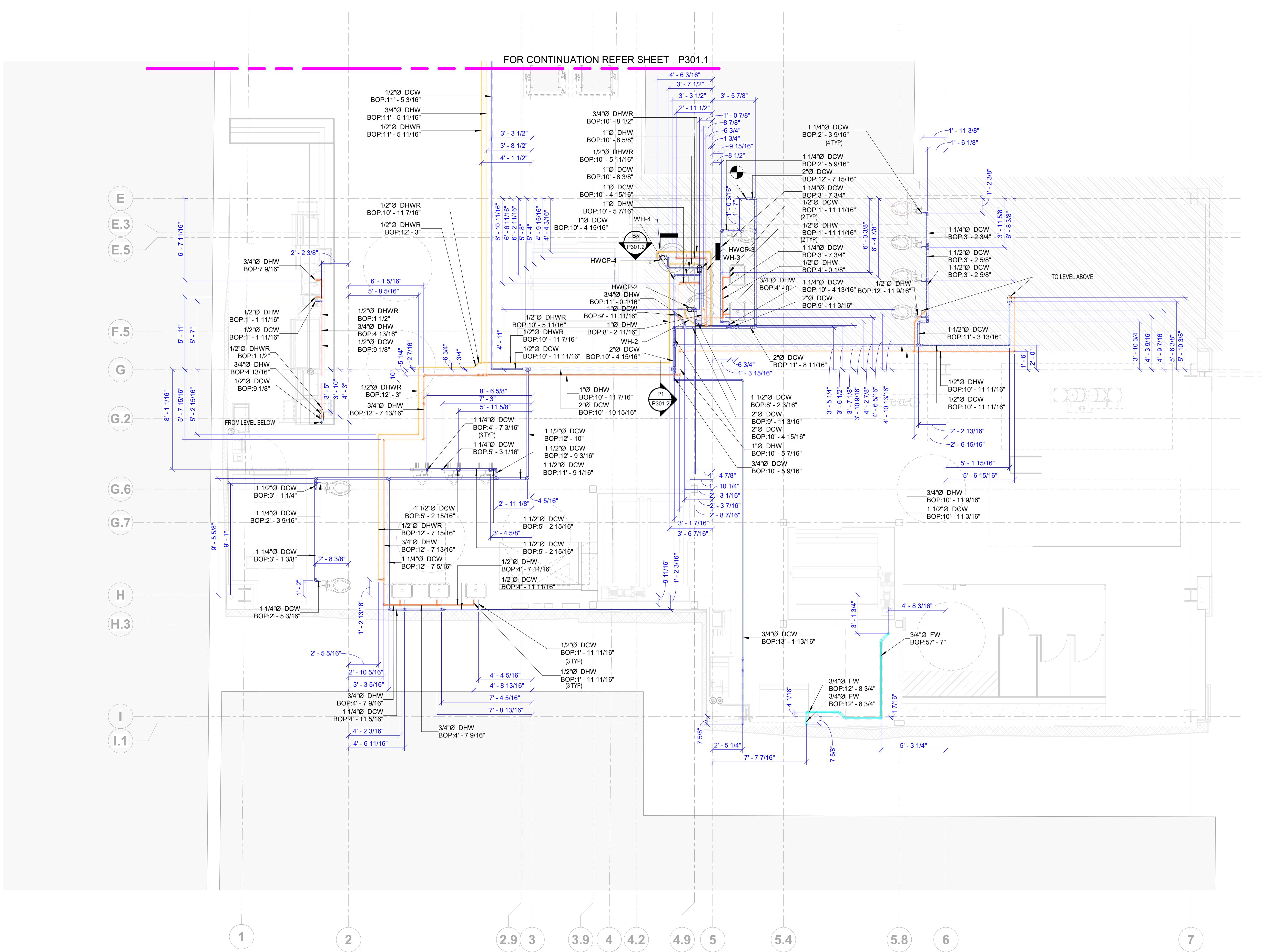


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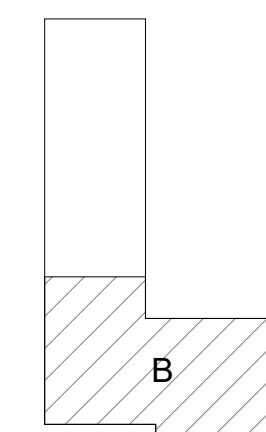
PLUMBING SHOP DRAWINGS



WATER SUPPLY LEGENDS AND SYMBOLS	
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	FILTERED WATER
	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
FW	FILTERED WATER
BOP	BOTTOM OF PIPE
IV	ISOLATION VALVE

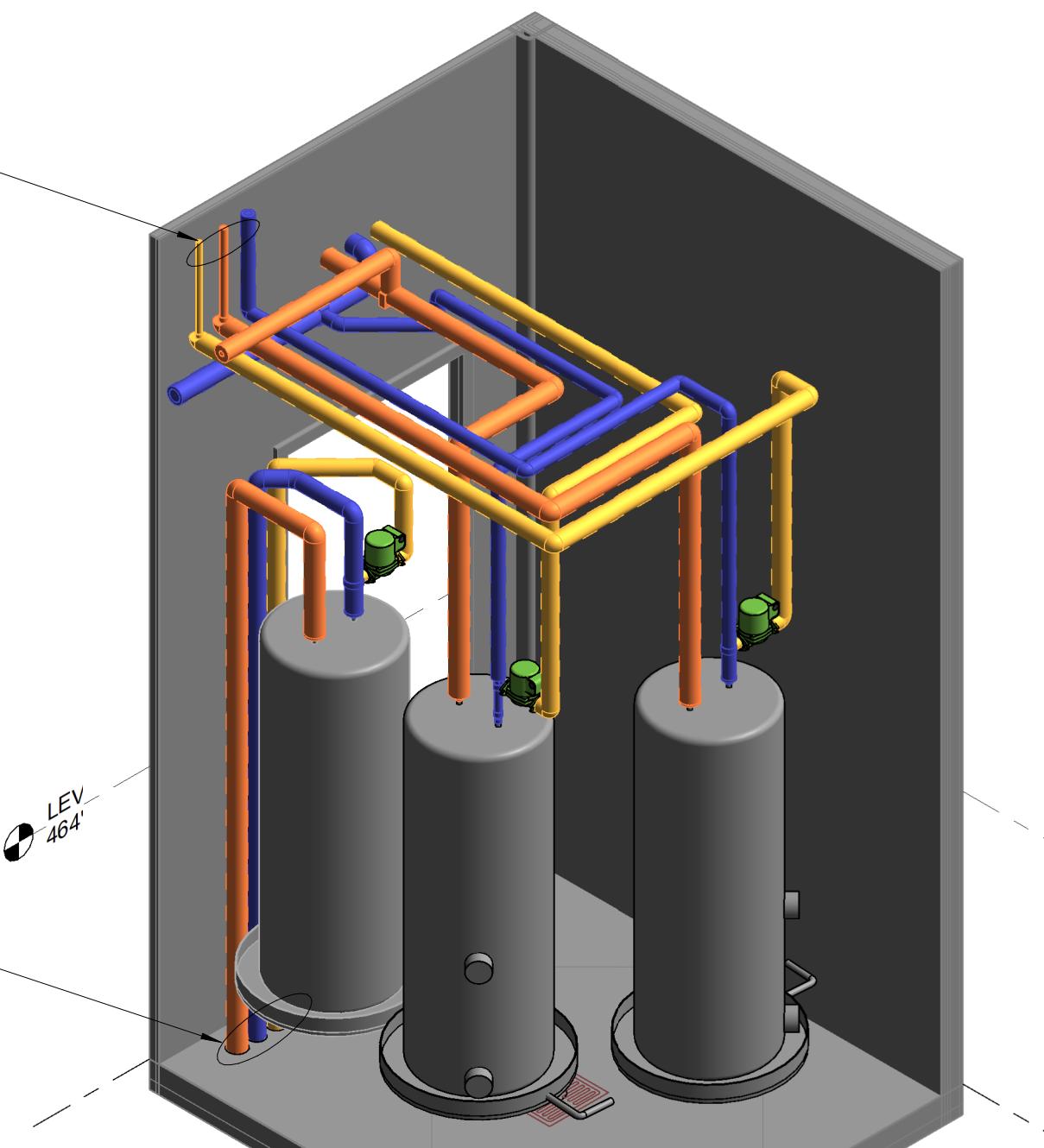
KEY PLAN



1

3 LEVEL 03 PLUMBING WATER SUPPLY LAYOUT - AREA B

$$\odot \quad 1/4" = 1'-0"$$



LEVEL 3 - WATER SUPPLY PIPE FITTING SCHEDULE

LEVEL 3 - WATER SUPPLY PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Elbow - Generic	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	1
Elbow - Generic	P-Domestic Cold Water	1"ø-1"ø	1
Elbow - Generic	P-Domestic Cold Water	1/2"ø-1/2"ø	1
Elbow - Generic	P-Domestic Hot Water	1/2"ø-1/2"ø	1
Elbow - Generic	P-Domestic Hot Water	3/4"ø-3/4"ø	1
Elbow - Generic	P-Domestic Hot Water Return	3/4"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"ø-1 1/4"ø	3
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/2"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1 1/4"ø-1/2"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	1"ø-3/4"ø	2
Nibco CU 600 Reducing Coupling C x C	P-Domestic Cold Water	2"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C	P-Domestic Hot Water	1"ø-3/4"ø	3
Nibco CU 600 Reducing Coupling C x C	P-Domestic Hot Water	3/4"ø-1/2"ø	3
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	1 1/2"ø-1/2"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Cold Water	2"ø-1/2"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	1"ø-3/4"ø	1
Nibco CU 600-2 Fitting Reducer Ftg x C	P-Domestic Hot Water	3/4"ø-1/2"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø	10
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/2"ø-1 1/4"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	17
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1"ø-1"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	1/2"ø-1/2"ø	15
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	2"ø-2"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Cold Water	3/4"ø-3/4"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	1"ø-1"ø	5
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	1/2"ø-1/2"ø	13
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"ø-1/2"ø	1
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water	3/4"ø-3/4"ø	12

LEVEL 3 - WATER SUPPLY PIPE FITTING SCHEDULE

LEVEL 3 - WATER SUPPLY PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Nibco CU 607 90 Elbow Close Rough C x C	P-Domestic Hot Water Return	1/2"ø-1/2"ø	11
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø	6
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø	3
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1"ø-1"ø	7
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	1/2"ø-1/2"ø	10
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	2"ø-2"ø	8
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Cold Water	3/4"ø-3/4"ø	5
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	1"ø-1"ø	4
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	1/2"ø-1/2"ø	1
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø	17
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	1/2"ø-1/2"ø	22
Nibco CU 607 90 Elbow Close Rough C x C1	P-Domestic Hot Water Return	3/4"ø-3/4"ø	4
Nibco CU 607 90 Elbow Close Rough C x C1	P-Filtered Water	3/4"ø-3/4"ø	9
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1 1/4"ø	7
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	1 1/4"ø-1 1/4"ø-1/2"ø	4
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1 1/2"ø	2
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1 1/4"ø	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Cold Water	2"ø-2"ø-1"ø	1
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	1"ø-1"ø-3/4"ø	3
Nibco CU 611 Reducing Tee C x C x C	P-Domestic Hot Water	3/4"ø-3/4"ø-1/2"ø	5
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1/2"ø	1
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Cold Water	1"ø-1"ø-1/2"ø	2
Nibco CU 611 Reducing Tee C x C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø-1/2"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	1 1/2"ø-1 1/2"ø-1 1/2"ø	2
Nibco CU 611 Tee C x C x C1	P-Domestic Cold Water	2"ø-2"ø-2"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water	3/4"ø-3/4"ø-3/4"ø	1
Nibco CU 611 Tee C x C x C1	P-Domestic Hot Water Return	1/2"ø-1/2"ø-1/2"ø	1

LEVEL 03 - WATER SUPPLY PIPE SCHEDULE

LEVEL 03 - WATER SUPPLY PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
COPPER	P-Domestic Cold Water	1 1/2"Ø	98.4
COPPER	P-Domestic Cold Water	1 1/4"Ø	58.1
COPPER	P-Domestic Cold Water	1"Ø	37.3
COPPER	P-Domestic Cold Water	1/2"Ø	151.9
COPPER	P-Domestic Cold Water	2"Ø	33.8
COPPER	P-Domestic Cold Water	3/4"Ø	43.9
COPPER	P-Filtered Water	3/4"Ø	51.0
COPPER	P-Domestic Hot Water	1"Ø	68.7
COPPER	P-Domestic Hot Water	1/2"Ø	46.7
COPPER	P-Domestic Hot Water	3/4"Ø	188.1
COPPER	P-Domestic Hot Water Return	1/2"Ø	186.6
COPPER	P-Domestic Hot Water Return	3/4"Ø	29.9

GENERAL NOTES :

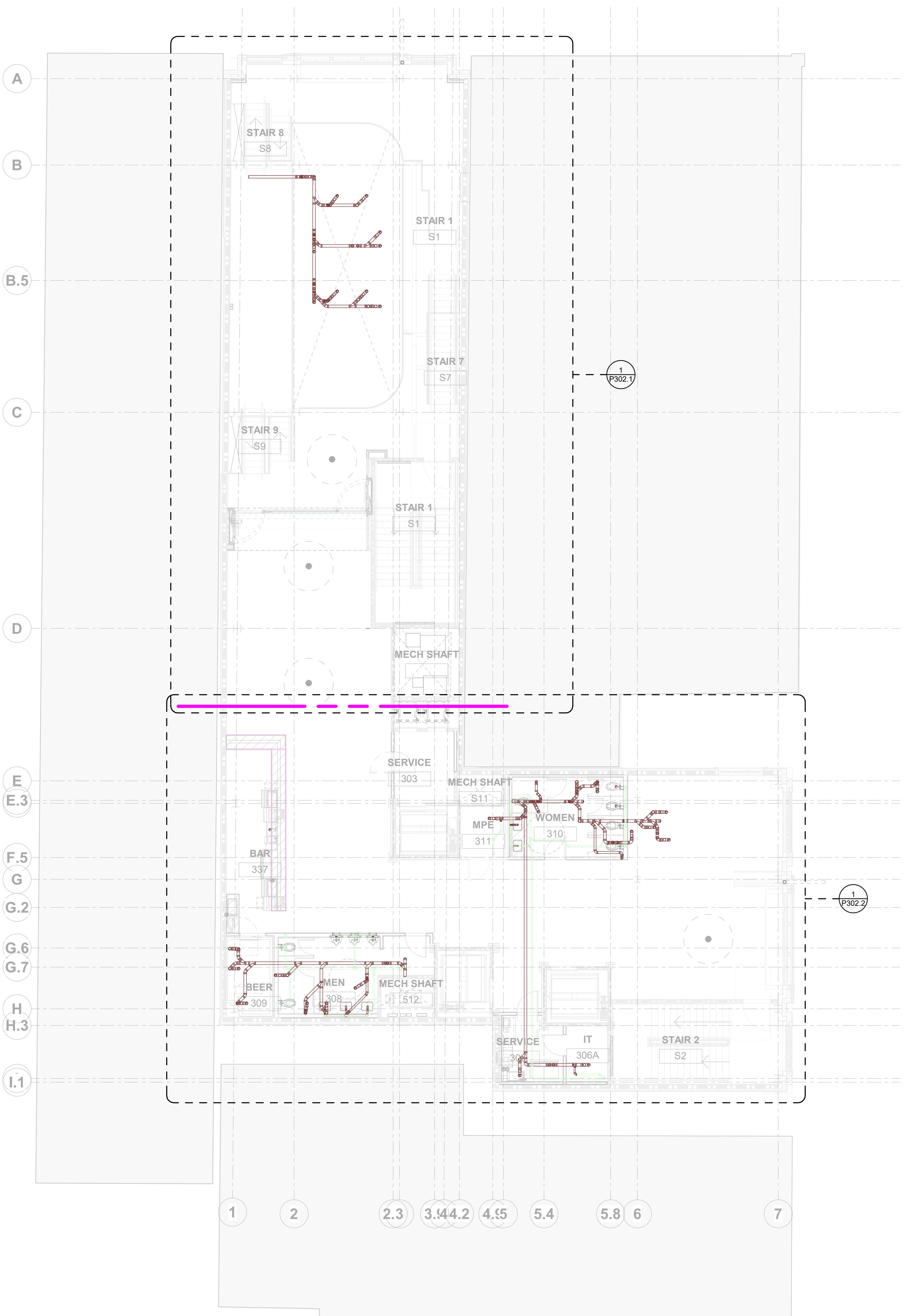
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
 2. ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
 3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED WHILE DIMENSIONING.
 4. ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03"
 5. INSULATIONS ARE AS FOLLOWS :
 - DCW- 1/2"
 - DHW- 1"
 - DHWR- 1"
 6. SLOPE VALUES ARE AS FOLLOWS :
 - FOR VENT - 1/8" / 1'
 - FOR SANITARY :
 - 3" & ABOVE - 1/8" / 1'
 - BELOW - 1/16" / 1'

SHEET NAME:
**LEVEL 03 PLUMBING WATER
SUPPLY LAYOUT - AREA B**

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER: 1



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① LEVEL 03 PLUMBING SANITARY WASTE LAYOUT- OVERALL
1/8" = 1'-0"

LEVEL 03 SANITARY WASTE PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
PVC - DWV	P-Sanitary Waste	1 1/2"ø	0.2
PVC - DWV	P-Sanitary Waste	2"ø	24.7
PVC - DWV	P-Sanitary Waste	3"ø	21.1
PVC - DWV	P-Sanitary Waste	4"ø	174.7

LEVEL 3 SANITARY WASTE PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø	11
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	70
Bend Long Sweep - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	7
Cap - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø	4
Plumbing_Joints_Spears_DWV_Trap_P-Trap	P-Sanitary Waste	4"ø-4"ø	20
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-2"ø	2
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	1
Tee Reducing Double Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø-2"ø-2"ø	2
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-1 1/2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-2"ø-4"ø	7
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-2"ø	2
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Trap P - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Wye 45 Deg - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	23
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-3"ø-4"ø	1
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	3
Wye Combination with 8th Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	2

DRAINAGE LEGEND	
SAN	SANITARY WASTE PIPE
VENT	SANITARY VENT PIPE
CONNECT TO EXISTING	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
V	VENT PIPE
SAN	SANITARY PIPE
BOP	BOTTOM OF PIPE
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
DN	DOWN
EC	END CAP
WC	WATER CLOSET

GENERAL NOTES :

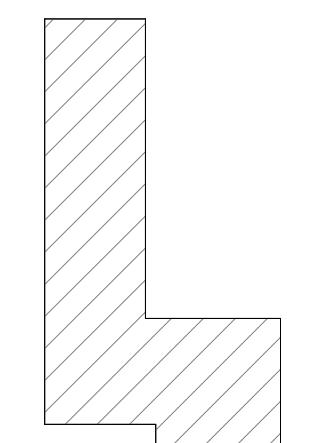
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- ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
- DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED FROM PIPE DIMENSIONS.
- ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03".
- INSULATIONS ARE AS FOLLOWS :
 - DCW- 1/2"
 - DWV- 1/2"
 - DHWR- 1"
- SLOPE VALUES ARE AS FOLLOWS :
 - FOR VENT - 1/8" / 1'
 - FOR SANITARY - > 3 ADJ/E - 1/8" / 1'
 - BELOW - 3" - 1/4" / 1'

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Nashville, TN

PLUMBING SHOP DRAWINGS

KEY PLAN



PRINTED DATE: 11/9/2023 5:00:16 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING SANITARY
WASTE LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P302

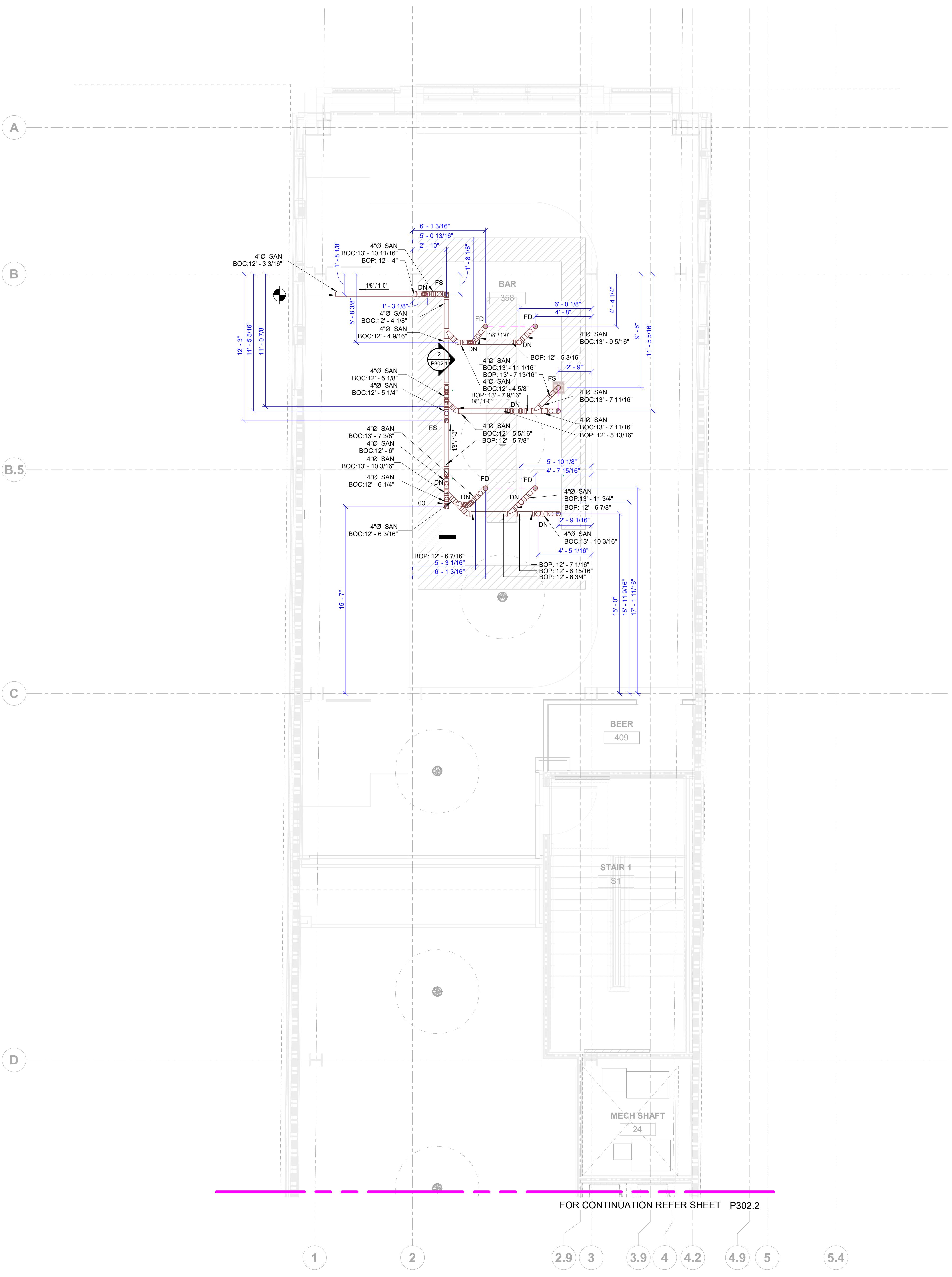


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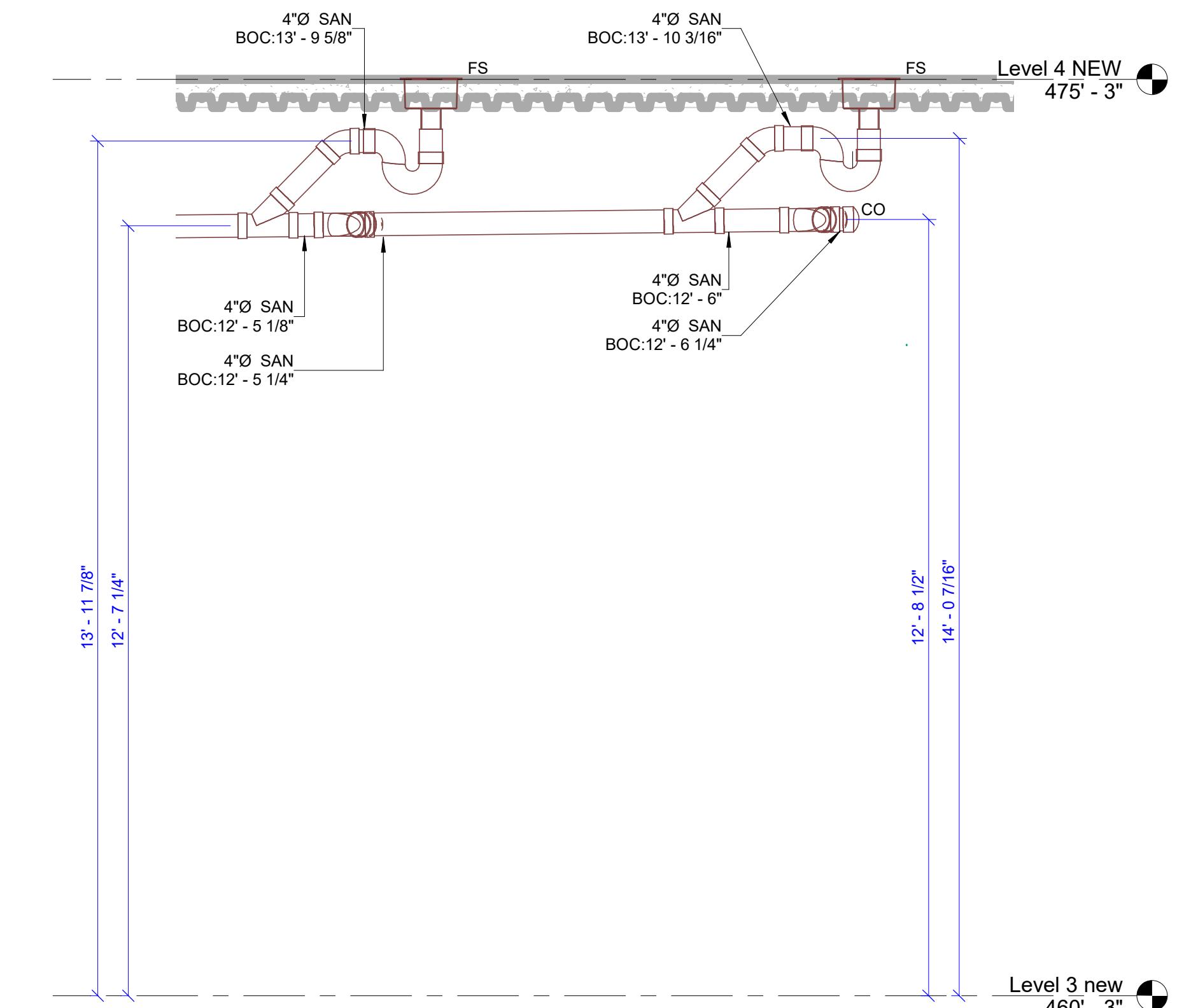
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PLUMBING DRAWINGS



LEVEL 03 SANITARY WASTE PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
PVC - DWV	P-Sanitary Waste	1 1/2"	0.2
PVC - DWV	P-Sanitary Waste	2"	24.7
PVC - DWV	P-Sanitary Waste	3"	21.1
PVC - DWV	P-Sanitary Waste	4"	174.7

LEVEL 3 SANITARY WASTE PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø	11
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	70
Bend Long Sweep - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	7
Cap - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø	4
Plumbing_Joints_Spears_DWV_Trap_P-Trap	P-Sanitary Waste	4"ø-4"ø	20
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-2"ø	2
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	1
Tee Reducing Double Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø-2"ø-2"ø	2
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-1 1/2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-2"ø	7
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Trap P + PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Wye 45 Deg - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	23
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-3"ø-4"ø	1
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	3
Wye Combination with 8th Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	2



LEVEL 03 SANITARY WASTE PIPE SCHEDULE

Type	System Type	Size	Length (Feet)
PVC - DWV	P-Sanitary Waste	1 1/2"Ø	0.2
PVC - DWV	P-Sanitary Waste	2"Ø	24.7
PVC - DWV	P-Sanitary Waste	3"Ø	21.1
PVC - DWV	P-Sanitary Waste	4"Ø	174.7



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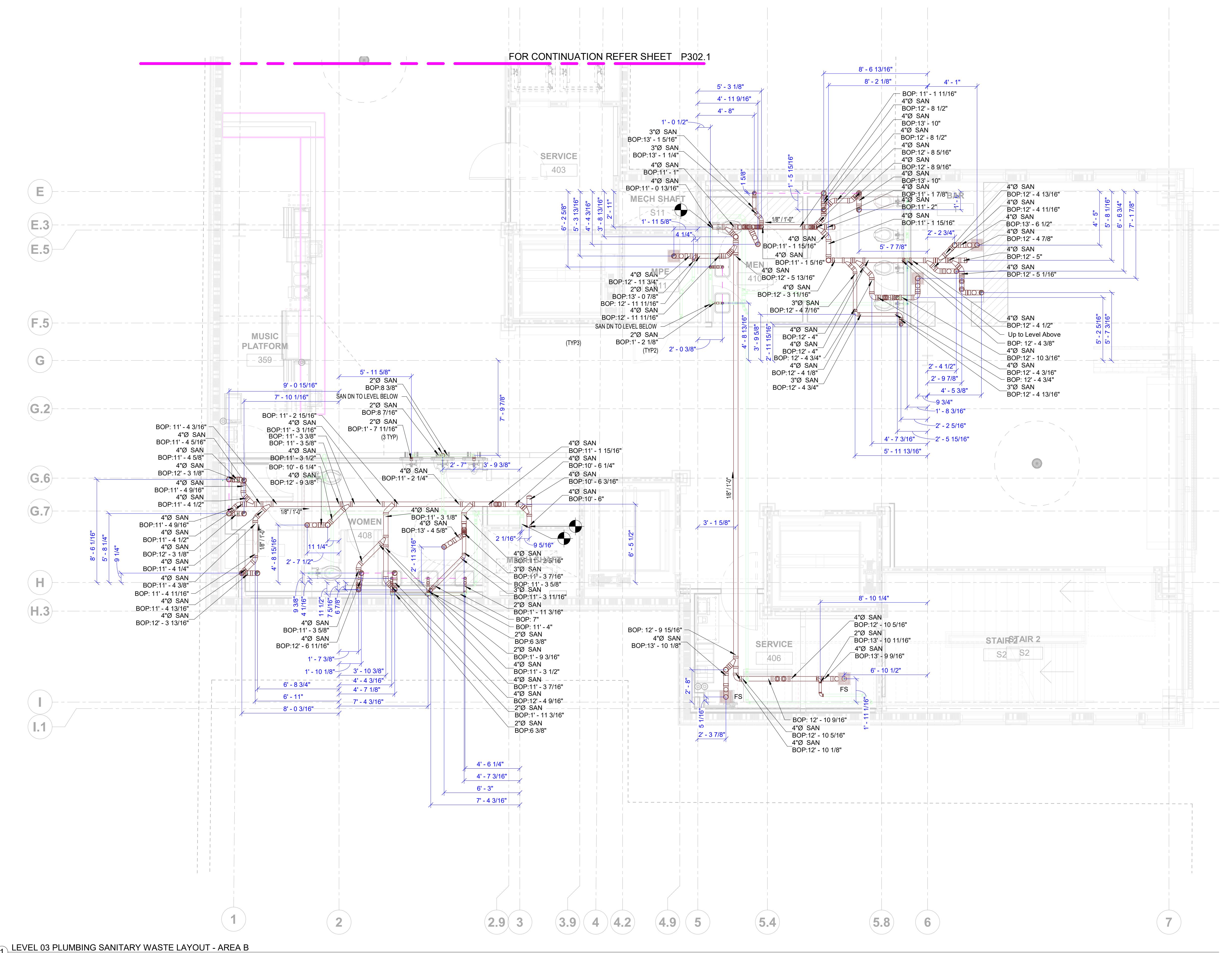
LEVEL 3 SANITARY WASTE PIPE FITTING SCHEDULE

Family	System Type	Size	Count
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø	11
Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	70
Bend Long Sweep - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	7
Cap - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø	4
Plumbing_Joints_Spears_DWV_Trap_P-Trap	P-Sanitary Waste	4"ø-4"ø	20
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-2"ø	2
Reducer - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø	1
Tee Reducing Double Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	3"ø-3"ø-2"ø-2"ø	2
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-1 1/2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-2"ø-4"ø	7
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-2"ø	2
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Trap P - PVC - Sch 40 - DWV	P-Sanitary Waste	2"ø-2"ø	5
Wye 45 Deg - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	23
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-3"ø-4"ø	1
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-3"ø	2
Wye 45 Deg Reducing - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	3
Wye Combination with 8th Bend - PVC - Sch 40 - DWV	P-Sanitary Waste	4"ø-4"ø-4"ø	2

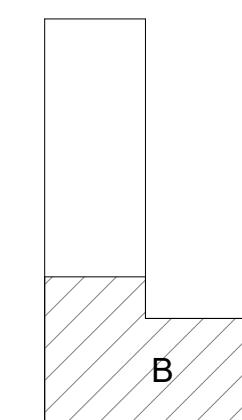
405 BROADWAY

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PLUMBING SHOP DRAWINGS



KEY PLAN



A diagram showing a circle with a central angle shaded in black. The angle is formed by two radii. The rest of the circle is white.

11/0/2023 6:37:3

VISIONS:

BREVIATION	DESCRIPTION
V	VENT PIPE
SAN	SANITARY PIPE
BOP	BOTTOM OF PIPE
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
DN	DOWN
EC	END CAP
GENERAL NOTES :	WATER CLOSET

ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS
INCLUDED WHILE DIMENSIONING.
ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03"
INSULATIONS ARE AS FOLLOWS :
DCW- 1/2"
DHW- 1"
DHWR- 1"
SLOPE VALUES ARE AS FOLLOWS :
FOR VENT - 1/8" / 1'
FOR SANITARY :
- 3" & ABOVE - 1/8" / 1'

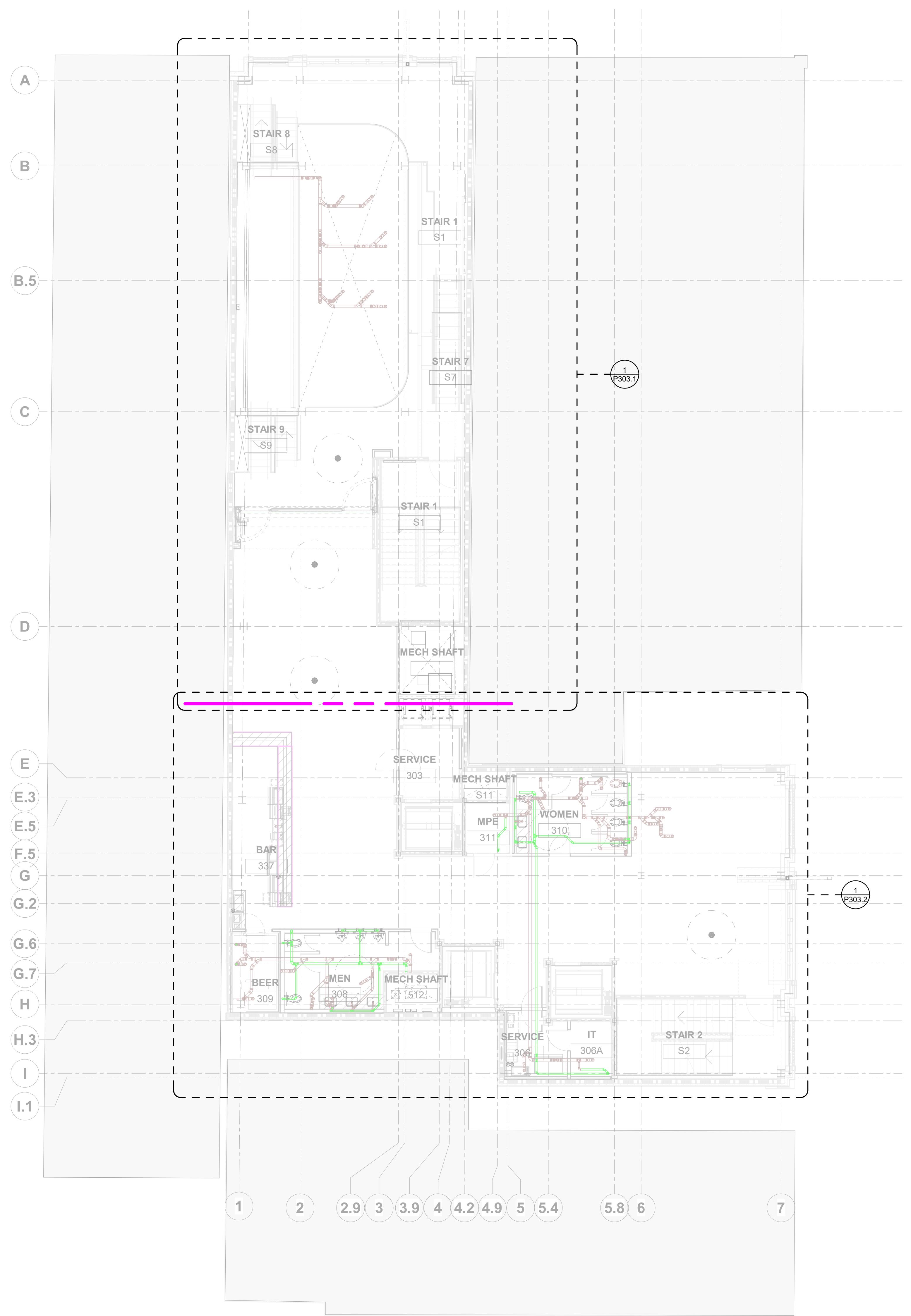
HEET NAME:
**EVEL 03 PLUMBING SANITARY
WASTE LAYOUT - AREA B**

HEET SIZE: ARCH E1 (42 X 30 INCHES)

'302.2



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① LEVEL 03 PLUMBING SANITARY VENT LAYOUT- OVERALL
1/8" = 1'-0"

LEVEL 03 SANITARY VENT PIPE SCHEDULE

Type	System Type	Size	Length (Feet)
PVC - DWV	P-Sanitary Vent	1 1/2"ø	17.6
PVC - DWV	P-Sanitary Vent	2"ø	265.5
PVC - DWV	P-Sanitary Vent	3"ø	53.7

LEVEL 3 SANITARY VENT PIPE FITTING SCHEDULE

Family	System Type	Size	Count
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	1 1/2"ø-1 1/2"ø	1
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø	25
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-3"ø	5
Bend Long Sweep - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-1 1/2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-1 1/2"ø-2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø-2"ø	6
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-2"ø-2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-3"ø-2"ø	5

DRAINAGE LEGEND		
	SANITARY WASTE PIPE	
	SANITARY VENT PIPE	
●	CONNECT TO EXISTING	

ABBREVIATION	DESCRIPTION
V	VENT PIPE
SAN	SANITARY PIPE
BOP	BOTTOM OF PIPE
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
DN	DOWN
EC	END CAP
WC	WATER CLOSET

GENERAL NOTES :

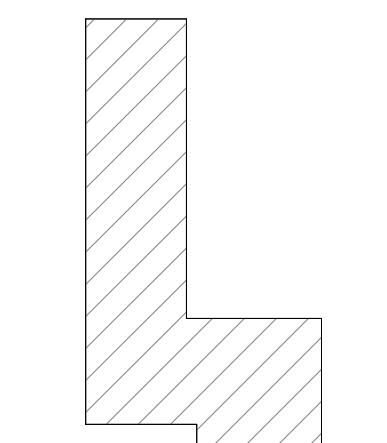
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED WHILE DIMENSIONING.
4. ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03".
5. INSULATION THICKNESSES ARE AS FOLLOWS :
- DCW- 1/2"
- DHW- 1"
6. SIGHT COUPLINGS ARE AS FOLLOWS :
- FOR VENT - 1/8" / 1'
- FOR SANITARY :
- 3" & ABOVE - 1/8" / 1'
- BELOW 3" - 1/4" / 1'

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PLUMBING SHOP DRAWINGS

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/9/2023 5:08:09 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING SANITARY
VENT LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P303

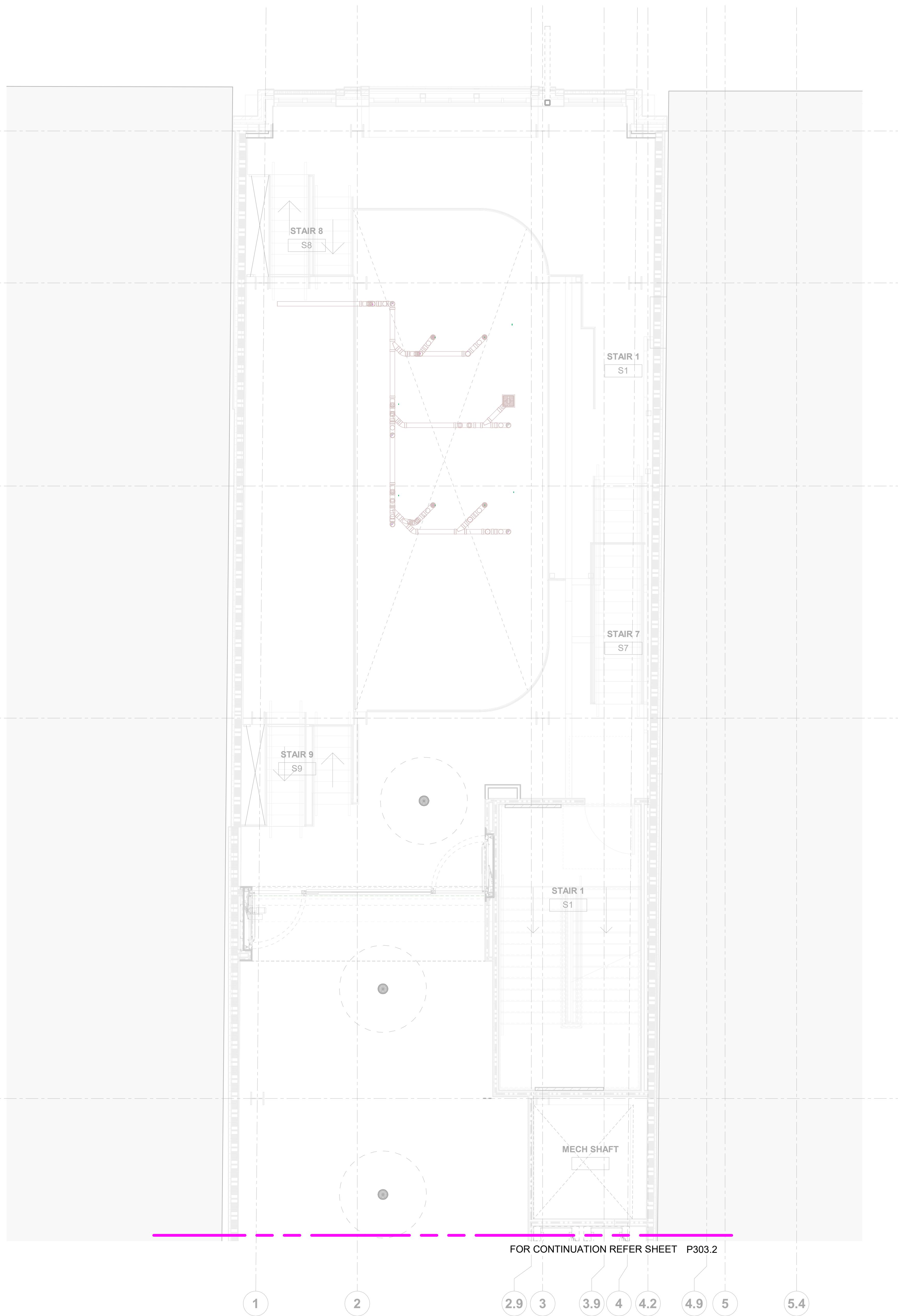


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PLUMBING SHOP DRAWINGS

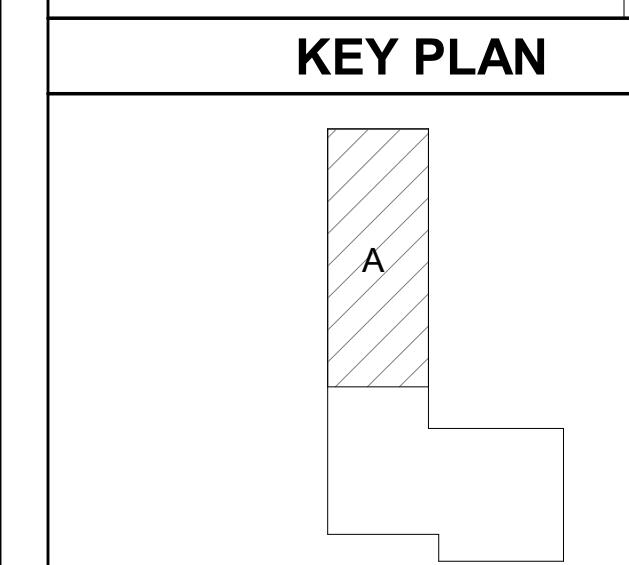


① LEVEL 03 PLUMBING SANITARY VENT LAYOUT - AREA A
1/4" = 1'-0"

DRAINAGE LEGEND	
	SANITARY WASTE PIPE
	SANITARY VENT PIPE
	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
V	VENT PIPE
SAN	SANITARY PIPE
BOP	BOTTOM OF PIPE
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
DN	DOWN
EC	END CAP
WC	WATER CLOSET

GENERAL NOTES :
 1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
 2. ALL PIPES ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
 3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED IN DIMENSIONING.
 4. ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03".
 5. INSULATIONS ARE AS FOLLOWS :
 - DOW: 1/2"
 - DN: 1/2"
 - DWHR: 1"
 6. SLOPE VALUES ARE AS FOLLOWS :
 - FOR VENT - 1/8" / 1'
 - FOR SANITARY
 - 3' & ABOVE - 1/8" / 1'
 - BELOW 3' - 1/4" / 1'



PRINTED DATE: 11/9/2023 5:09:26 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING SANITARY
VENT LAYOUT - AREA A

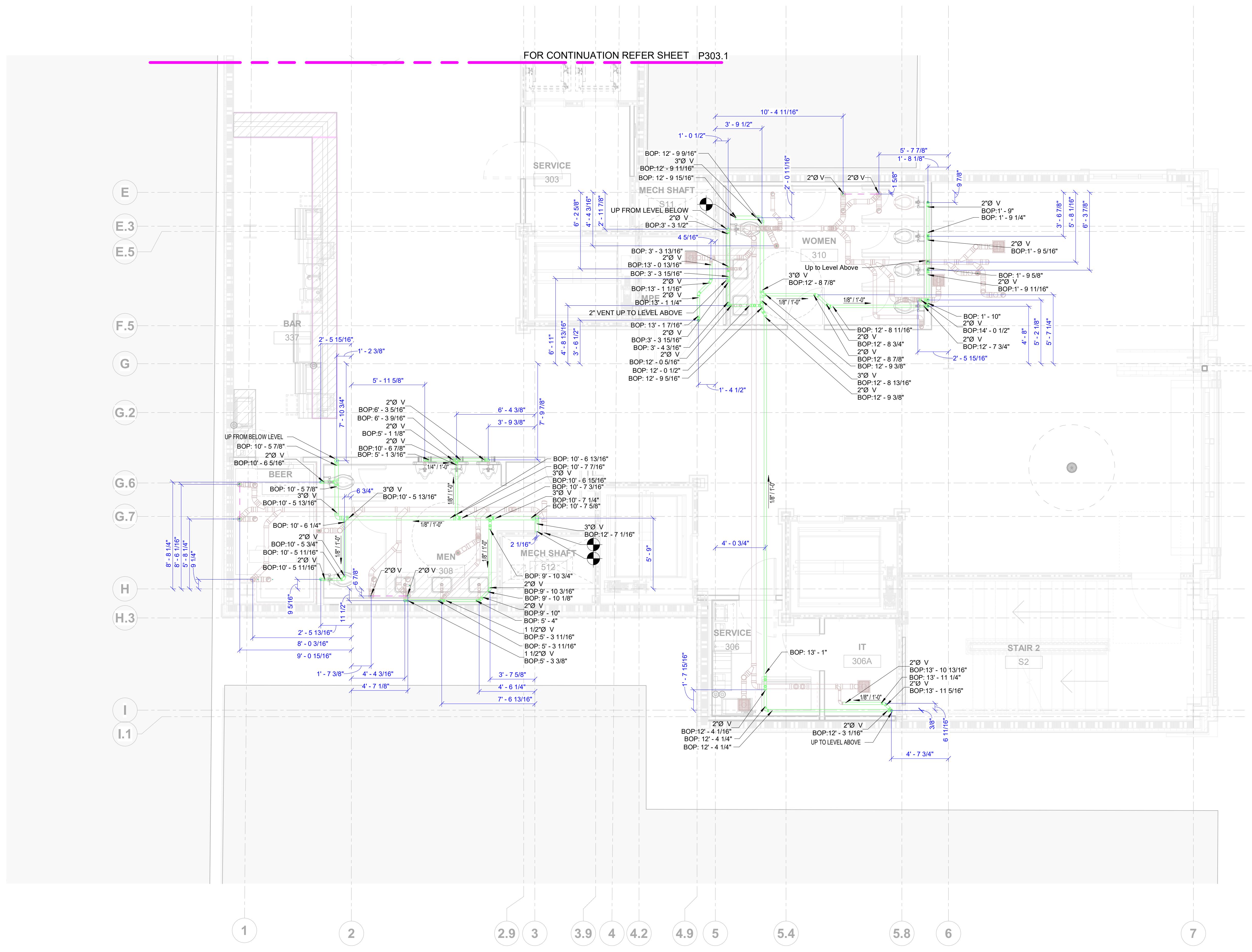
SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

P303.1



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LEVEL 03 SANITARY VENT PIPE SCHEDULE			
Type	System Type	Size	Length (Feet)
PVC - DWV	P-Sanitary Vent	1 1/2"ø	17.6
PVC - DWV	P-Sanitary Vent	2"ø	265.5
PVC - DWV	P-Sanitary Vent	3"ø	53.7

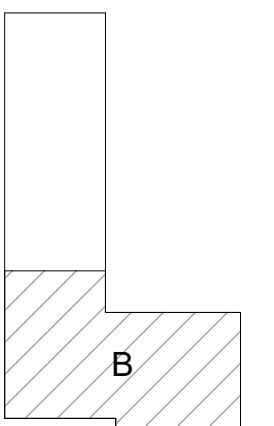
LEVEL 3 SANITARY VENT PIPE FITTING SCHEDULE			
Family	System Type	Size	Count
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	1 1/2"ø-1 1/2"ø	1
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø	25
Bend - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-3"ø	5
Bend Long Sweep - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø	4
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-1 1/2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø-1 1/2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	2"ø-2"ø-2"ø	6
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-2"ø-2"ø	1
Tee Reducing Sanitary - PVC - Sch 40 - DWV	P-Sanitary Vent	3"ø-3"ø-2"ø	5

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PLUMBING SHOP DRAWINGS

KEY PLAN



PRINTED DATE: 11/9/2023 5:11:05 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

DRAINAGE LEGEND	
SANITARY WASTE PIPE	(Dark Brown)
SANITARY VENT PIPE	(Green)
CONNECT TO EXISTING	(Black Circle)

ABBREVIATION	DESCRIPTION
V	VENT PIPE
SAN	SANITARY PIPE
BOP	BOTTOM OF PIPE
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
DN	DOWN
EC	END CAP
WC	WATER CLOSET

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- ALL DIMENSIONS ARE MEASURED FROM THE NEAREST COLUMN GRIDS.
- DIMENSIONS ARE GIVEN FROM CENTRE OF THE PIPE. INSULATION IS EXCLUDED WHILE DIMENSIONING.
- ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03".
- INSULATIONS ARE AS FOLLOWS :

 - DWV- 2"
 - DHW- 1"
 - DHWR- 1"

- SLOPE VALUES ARE AS FOLLOWS :

 - FOR DWV - 1/8" / 1'
 - FOR SANITARY : - 3" & ABOVE - 1/8" / 1'
 - BELOW 3" - 1/4" / 1'

SHEET NAME: LEVEL 03 PLUMBING SANITARY VENT LAYOUT - AREA B

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

P303.2

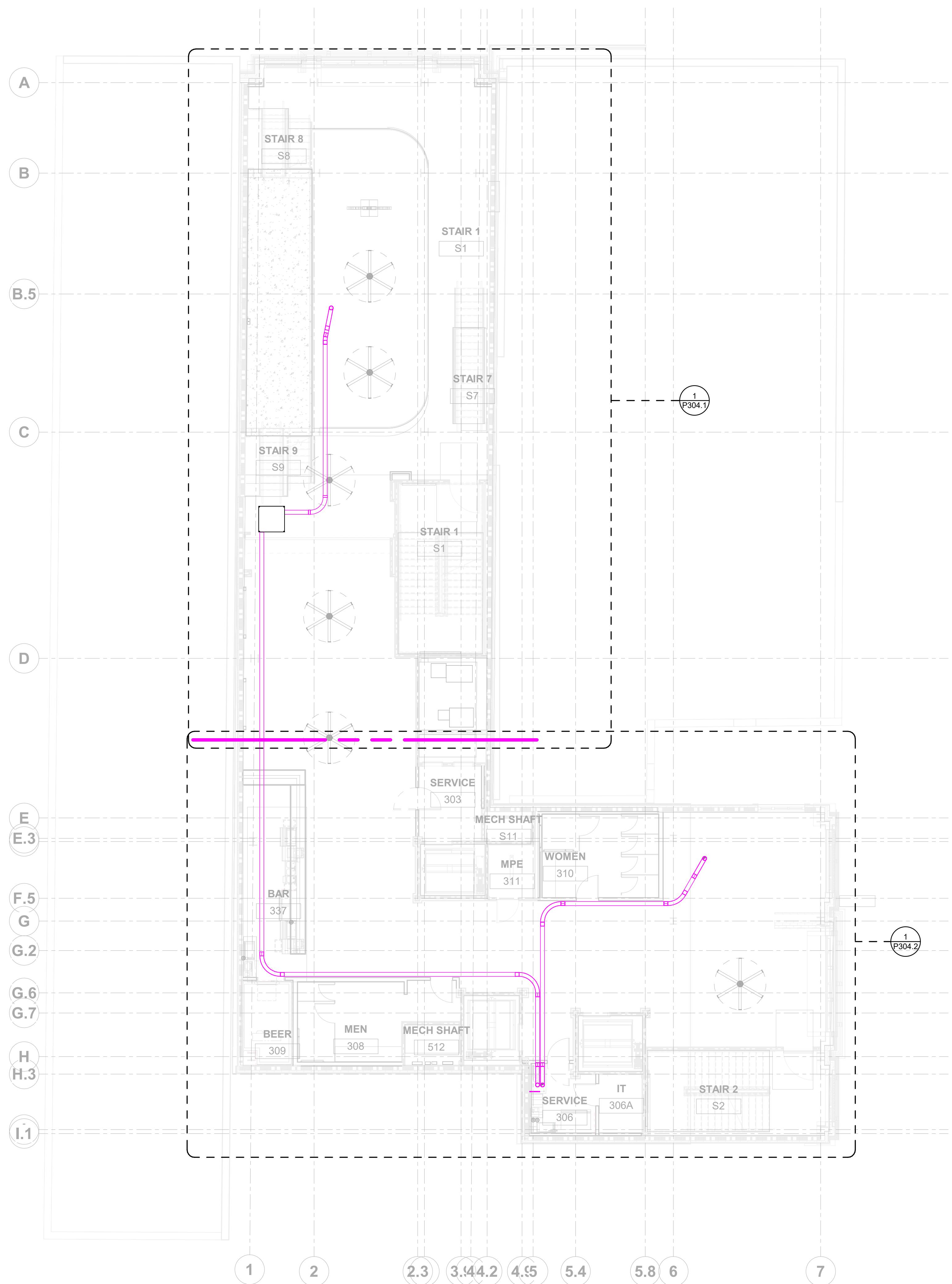


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PLUMBING SHOP DRAWINGS



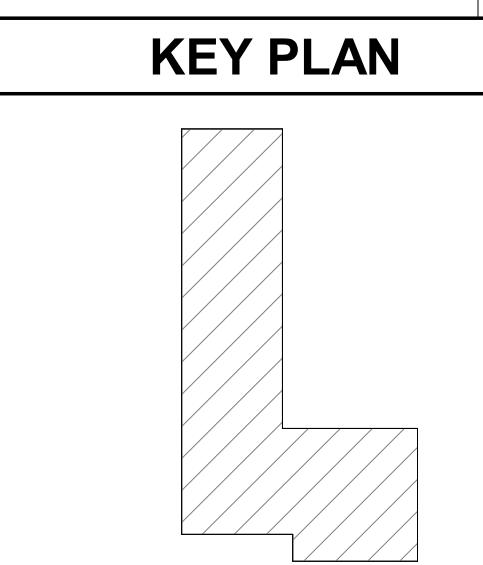
(1) LEVEL 03 PLUMBING SODA LAYOUT- OVERALL
1/8" = 1'-0"

SODA LINE LEGENDS AND SYMBOLS	
█	SODA LINE CONDUIT
●	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
SC	SODA LINE CONDUIT
BOC	BOTTOM OF CONDUIT

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL CONDUITS ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE CONDUITS.
4. ALL THE ELEVATION ARE PROVIDED WITH REFERENCE TO "LEVEL 03".



PRINTED DATE: 11/9/2023 5:11:39 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING SODA LAYOUT
- OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P304

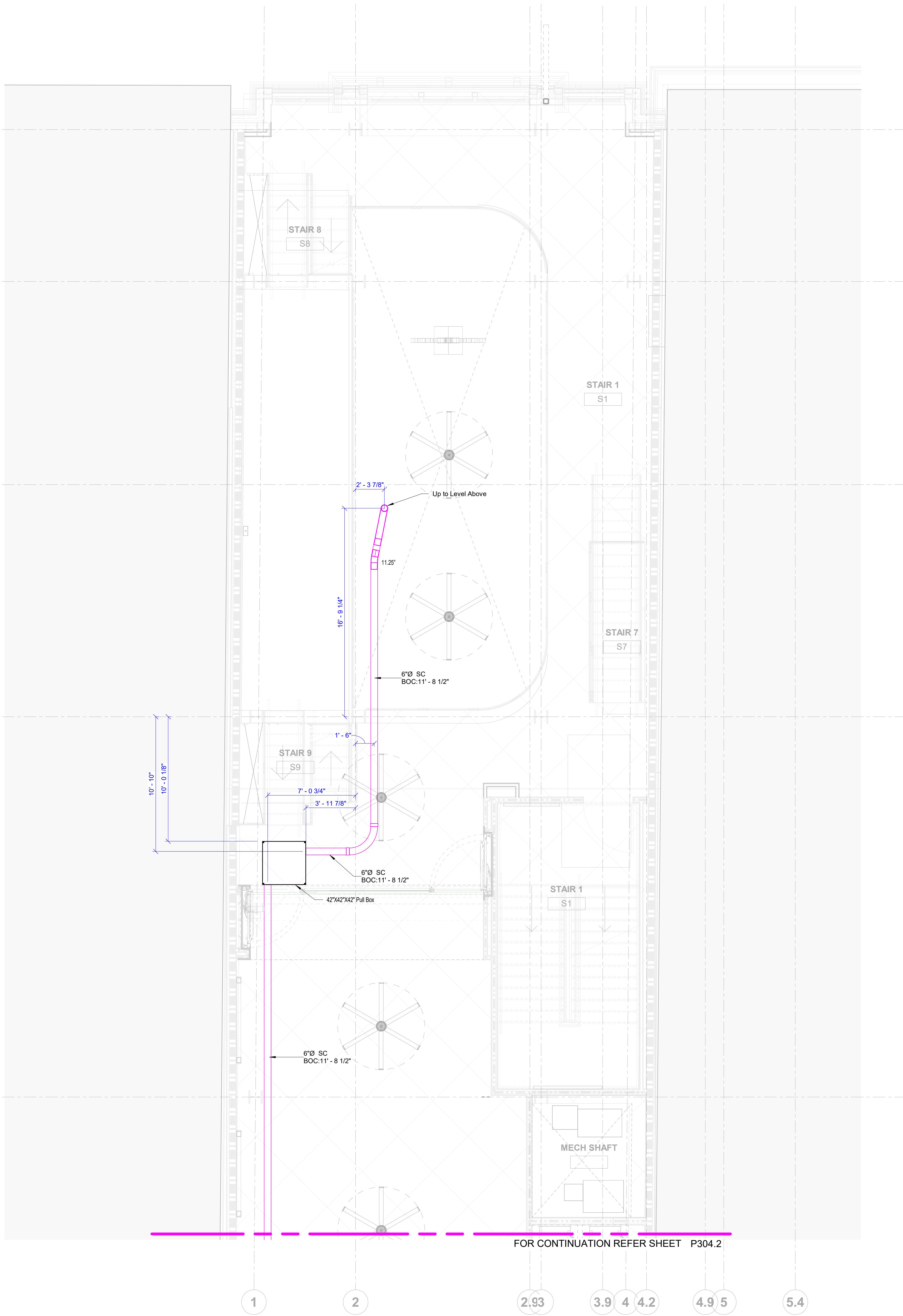


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PLUMBING SHOP DRAWINGS



① LEVEL 03 PLUMBING SODA LAYOUT - AREA A
1/4" = 1'-0"

ABBREVIATION	DESCRIPTION
SC	SODA LINE CONDUIT
BOC	BOTTOM OF CONDUIT

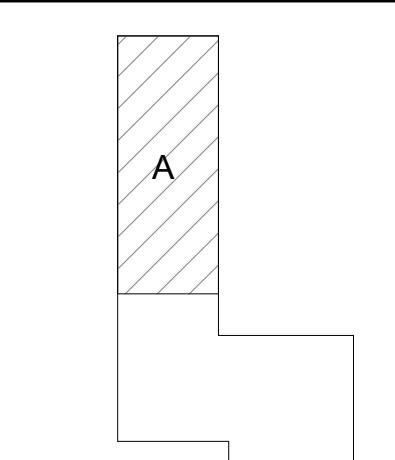
GENERAL NOTES :
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL CONDUITS ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE CONDUITS.
4. ALL THE ELEVATION ARE PROVIDED WITH REFERENCE TO "LEVEL 03".

SHEET NAME:
LEVEL 03 PLUMBING SODA LAYOUT
- AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P304.1

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/9/2023 5:14:39 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

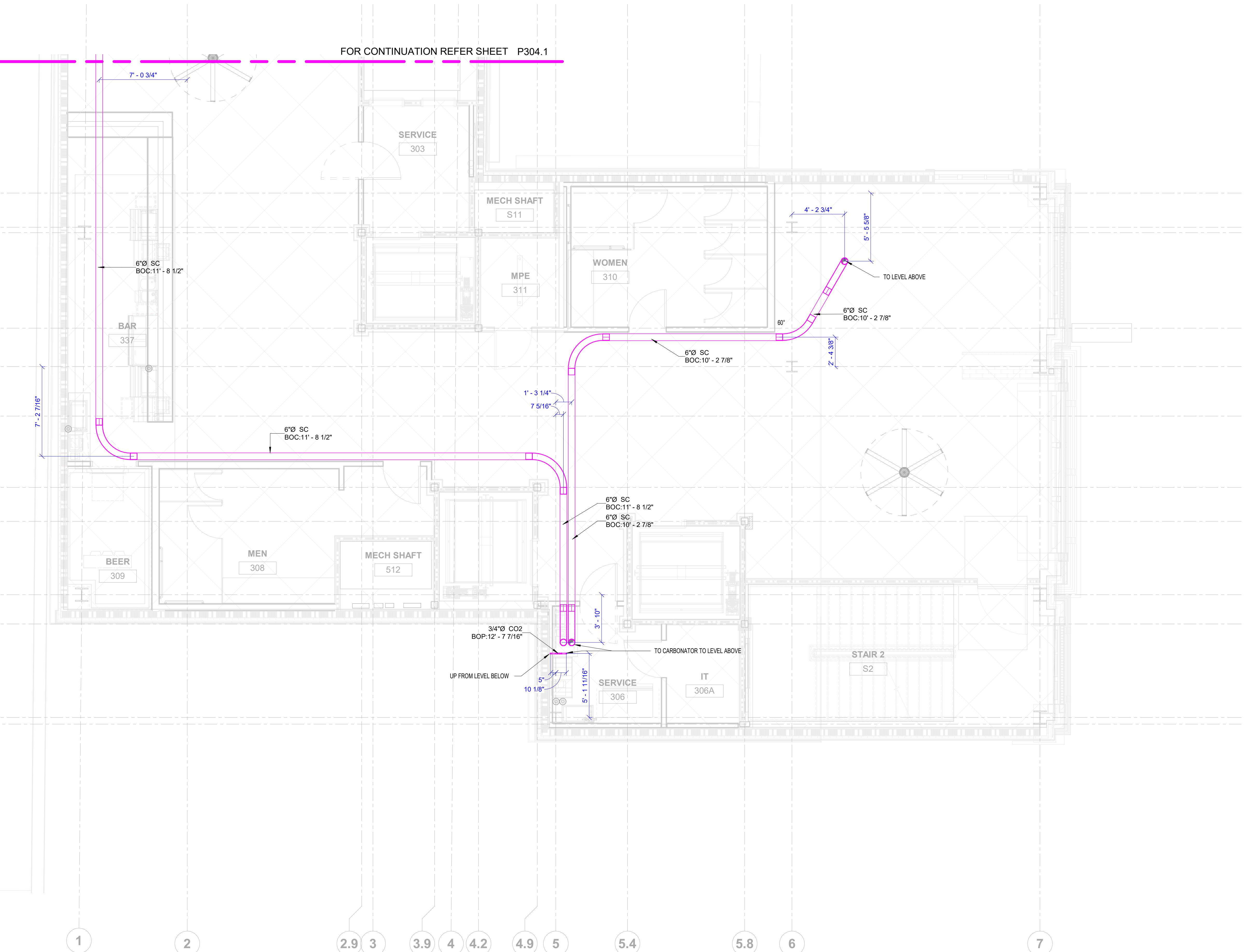


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PLUMBING SHOP DRAWINGS



① LEVEL 03 PLUMBING SODA LAYOUT- AREA B
1/4" = 1'-0"

SODA LINE LEGENDS AND SYMBOLS	
	SODA LINE CONDUIT
	CONNECT TO EXISTING

ABBREVIATION	DESCRIPTION
SC	SODA LINE CONDUIT
BOC	BOTTOM OF CONDUIT

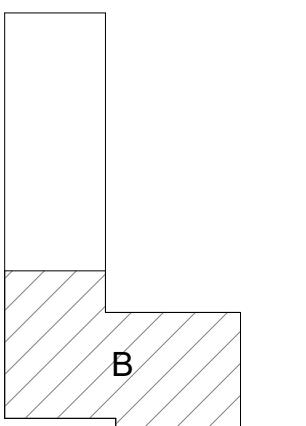
GENERAL NOTES :
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL CONDUITS ARE DIMENSIONED FROM THE NEAREST COLUMN GRIDS.
3. DIMENSIONS ARE GIVEN FROM CENTRE OF THE CONDUITS.
4. ALL THE ELEVATIONS ARE PROVIDED WITH REFERENCE TO "LEVEL 03".

SHEET NAME:
LEVEL 03 PLUMBING SODA LAYOUT
- AREA B

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P304.2

KEY PLAN

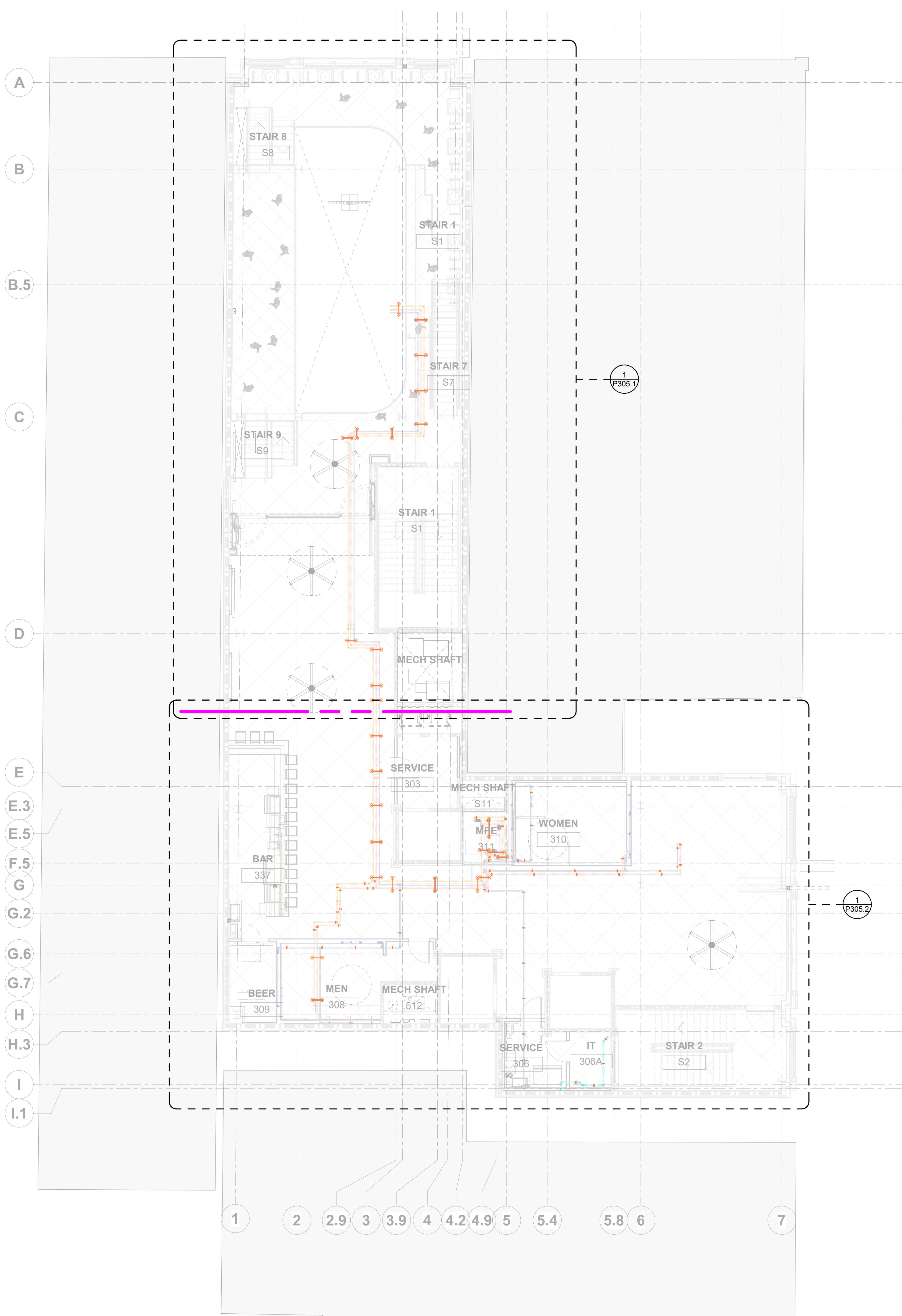


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REVISIONS:
Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023



LEVEL 03 WATER SUPPLY CLEVIS SUPPORT SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-01	Pipe_Hanger without GTP: 2 1/2"	1	1' - 8"
C-02	Pipe_Hanger: 1.5" Dia	3	4' - 0"
C-03	Pipe_Hanger: 2 1/2"	6	1' - 8"
C-04	Pipe_Hanger: 2 1/2"	1	1' - 10"
C-05	Pipe_Hanger: 2 1/2"	2	2' - 0"
C-06	Pipe_Hanger: 2 1/2"	1	2' - 1"
C-07	Pipe_Hanger: 2 1/2"	6	2' - 2"
C-08	Pipe_Hanger: 2 1/2"	1	2' - 6"
C-09	Pipe_Hanger: 2 1/2"	4	2' - 7"
C-10	Pipe_Hanger: 2 1/2"	4	3' - 0"
C-11	Pipe_Hanger: 2 1/2"	2	3' - 2"
C-12	Pipe_Hanger: 2 1/2"	1	3' - 9"
C-13	Pipe_Hanger: 2 1/2"	12	3' - 10"
C-14	Pipe_Hanger: 2 1/2"	6	4' - 1"
C-15	Pipe_Hanger: 2 1/2"	1	4' - 4"
C-16	Pipe_Hanger: 2 1/2"	2	4' - 9"
C-17	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-18	Pipe_Hanger: 3" Dia	2	1' - 9"
C-19	Pipe_Hanger: 3" Dia	2	2' - 1"

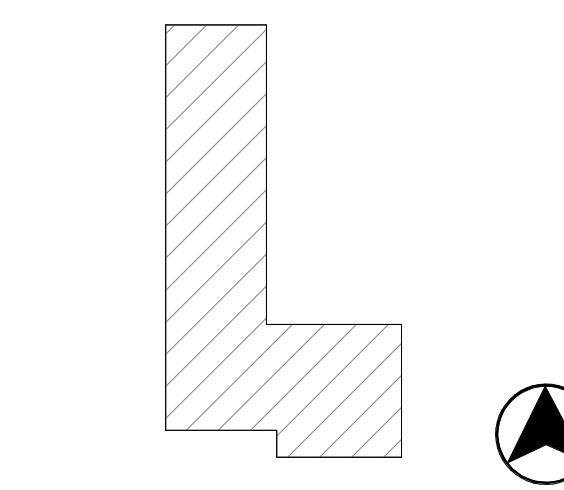
Grand total: 58

LEVEL 03 WATER SUPPLY TRAPEZE HANGER SCHEDULE

Support ID	Family Type	Count	Strut Length	R1=R2 Rod Length+6"
T-01	Strut Hanger	1	1' - 6"	2' - 11"
T-02	Strut Hanger	1	1' - 8"	2' - 5"
T-03	Strut Hanger	2	1' - 8"	2' - 9"
T-04	Strut Hanger	2	1' - 8"	2' - 11"
T-05	Strut Hanger	6	1' - 8"	3' - 0"
T-06	Strut Hanger	6	1' - 8"	3' - 11"
T-07	Strut Hanger	1	1' - 8"	4' - 8"
T-08	Strut Hanger	1	1' - 8"	4' - 11"
T-09	Strut Hanger	1	1' - 8"	5' - 0"
T-10	Strut Hanger	1	1' - 9"	3' - 0"
T-11	Strut Hanger	3	2' - 0"	4' - 6"
T-12	Strut Hanger	1	2' - 4"	7' - 2"
T-13	Strut Hanger	1	2' - 9"	4' - 11"

Grand total: 27

KEY PLAN



PRINTED DATE: 11/9/2023 5:16:18 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- THE CENTER OF ROD IS MEASURED FROM THEIR CENTER OF ROD FROM THE NEAREST COLUMN GRID LINES.
- HANGERS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
- PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
- ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

SHEET NAME: LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT - OVERALL

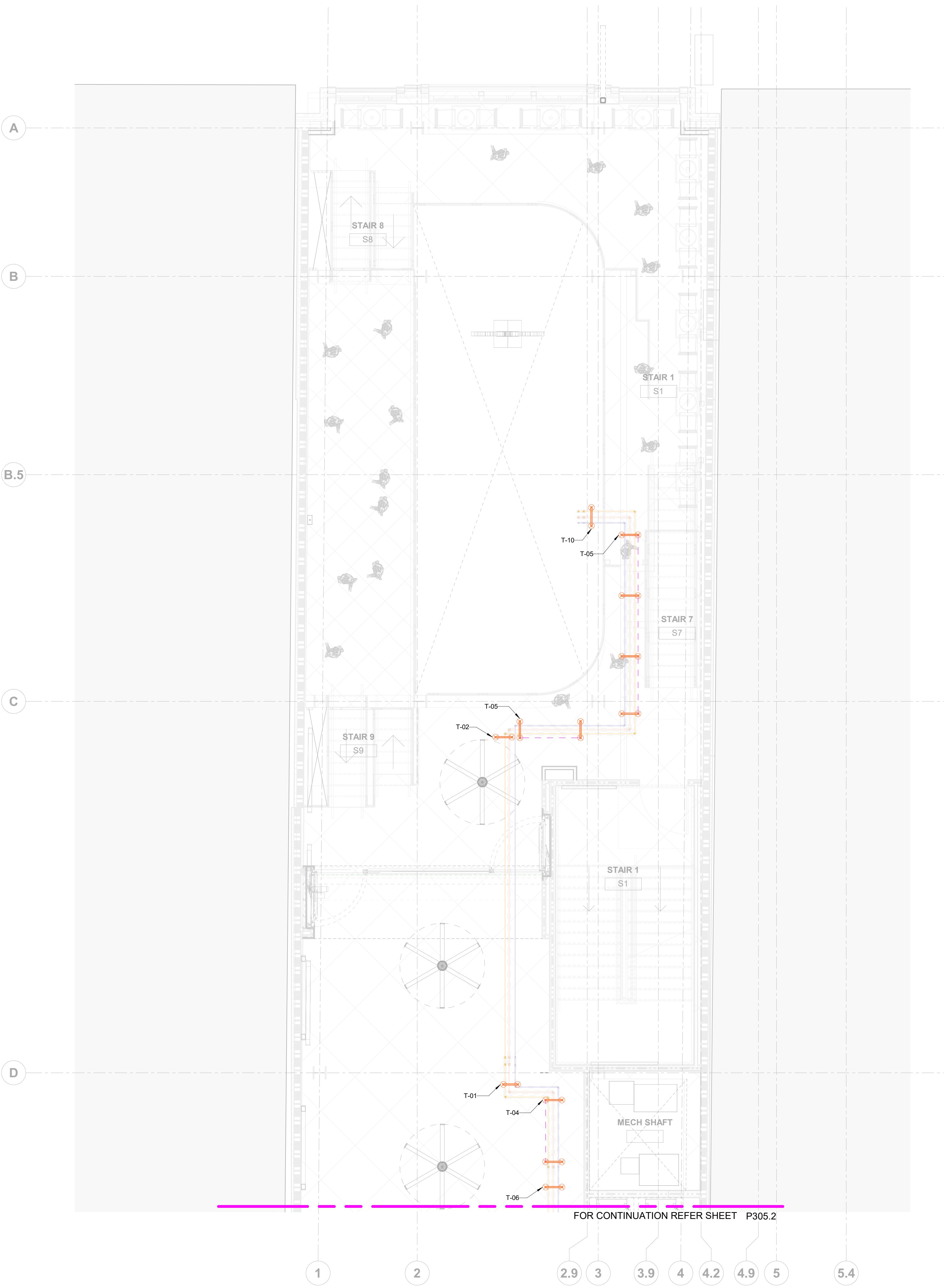
SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

P305



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LEVEL 03 WATER SUPPLY CLEVIS SUPPORT SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-01	Pipe_Hanger without GTP: 2 1/2"	1	1' - 8"
C-02	Pipe_Hanger: 1 1/2" Dia	3	4' - 0"
C-03	Pipe_Hanger: 2 1/2"	6	1' - 8"
C-04	Pipe_Hanger: 2 1/2"	1	1' - 10"
C-05	Pipe_Hanger: 2 1/2"	2	2' - 0"
C-06	Pipe_Hanger: 2 1/2"	1	2' - 1"
C-07	Pipe_Hanger: 2 1/2"	6	2' - 2"
C-08	Pipe_Hanger: 2 1/2"	1	2' - 6"
C-09	Pipe_Hanger: 2 1/2"	4	2' - 7"
C-10	Pipe_Hanger: 2 1/2"	4	3' - 0"
C-11	Pipe_Hanger: 2 1/2"	2	3' - 2"
C-12	Pipe_Hanger: 2 1/2"	1	3' - 9"
C-13	Pipe_Hanger: 2 1/2"	12	3' - 10"
C-14	Pipe_Hanger: 2 1/2"	6	4' - 1"
C-15	Pipe_Hanger: 2 1/2"	1	4' - 4"
C-16	Pipe_Hanger: 2 1/2"	2	4' - 9"
C-17	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-18	Pipe_Hanger: 3" Dia	2	1' - 9"
C-19	Pipe_Hanger: 3" Dia	2	2' - 1"

Grand total: 58

LEVEL 03 WATER SUPPLY TRAPEZE HANGER SCHEDULE

Support ID	Family Type	Count	Strut Length	R1=R2 Rod Length+6"
T-01	Strut Hanger	1	1' - 6"	2' - 11"
T-02	Strut Hanger	1	1' - 8"	2' - 5"
T-03	Strut Hanger	2	1' - 8"	2' - 9"
T-04	Strut Hanger	2	1' - 8"	2' - 11"
T-05	Strut Hanger	6	1' - 8"	3' - 0"
T-06	Strut Hanger	6	1' - 8"	3' - 11"
T-07	Strut Hanger	1	1' - 8"	4' - 8"
T-08	Strut Hanger	1	1' - 8"	4' - 11"
T-09	Strut Hanger	1	1' - 8"	5' - 0"
T-10	Strut Hanger	1	1' - 9"	3' - 0"
T-11	Strut Hanger	3	2' - 0"	4' - 6"
T-12	Strut Hanger	1	2' - 4"	7' - 2"
T-13	Strut Hanger	1	2' - 9"	4' - 11"

Grand total: 27

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT

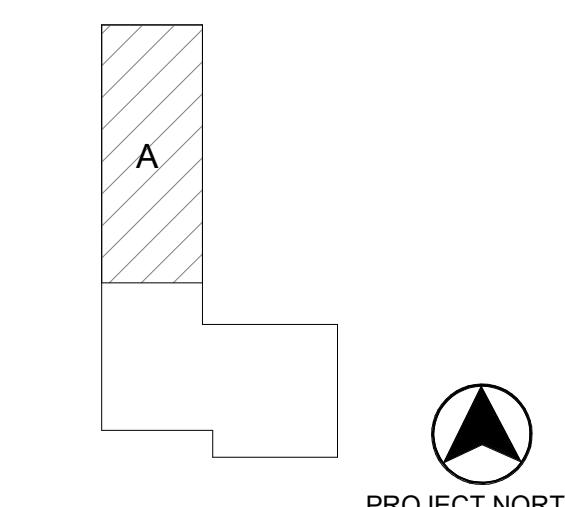
GENERAL NOTES :

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. HANGERS ARE CONNECTED TO THEIR CENTER OF ROD FROM THE NEAREST COLUMN GRID LINES.
3. HANGERS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
4. PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
5. ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

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PLUMBING SHOP DRAWINGS

KEY PLAN



PRINTED DATE: 11/9/2023 5:17:11 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

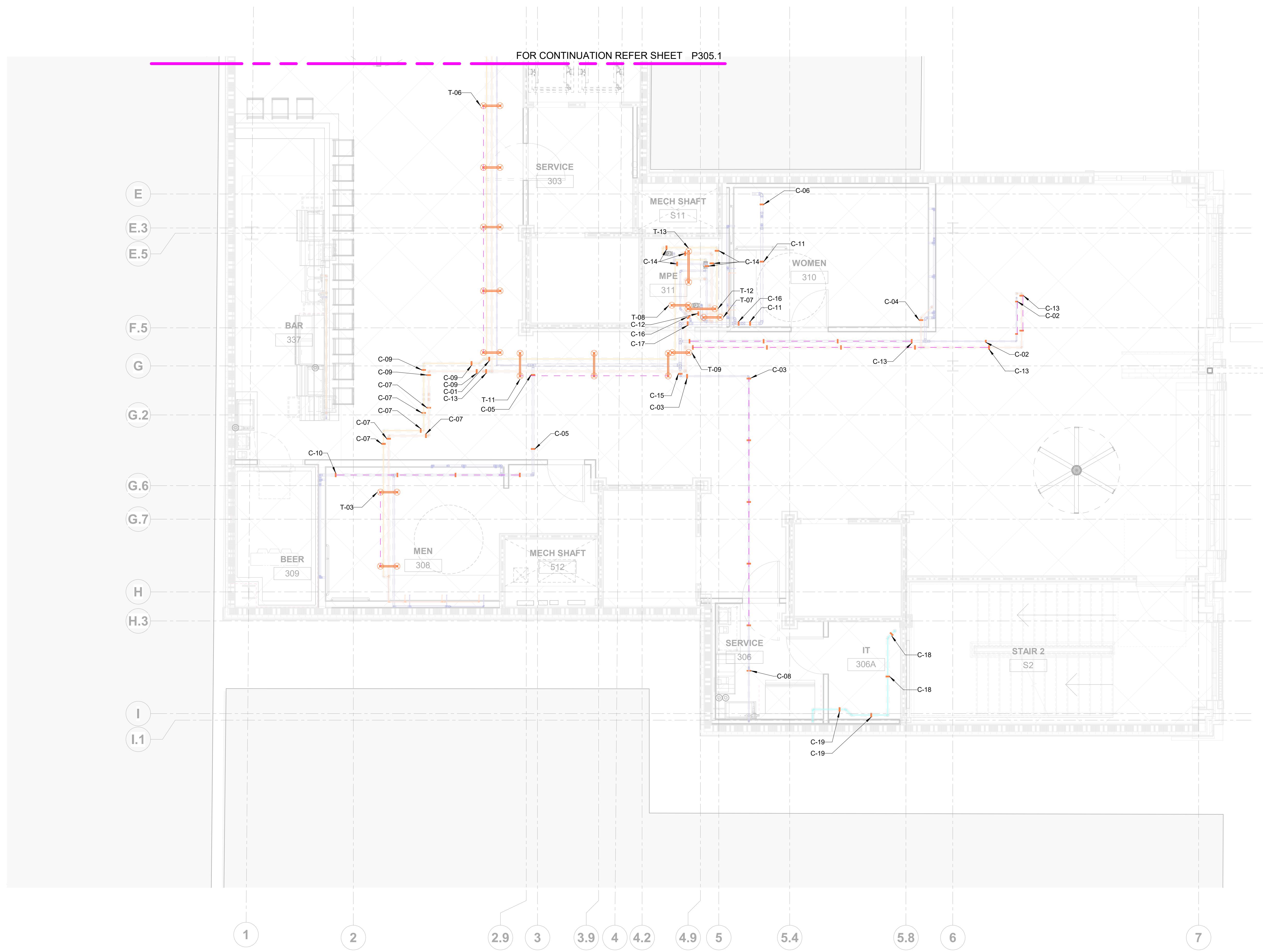
SHEET NAME:
LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P305.1



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① LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT- AREA B
1/4" = 1'-0"

LEVEL 03 WATER SUPPLY CLEVIS SUPPORT SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-01	Pipe_Hanger without GTP: 2 1/2"	1	1' - 8"
C-02	Pipe_Hanger: 1 1/2" Dia	3	4' - 0"
C-03	Pipe_Hanger: 2 1/2"	6	1' - 8"
C-04	Pipe_Hanger: 2 1/2"	1	1' - 10"
C-05	Pipe_Hanger: 2 1/2"	2	2' - 0"
C-06	Pipe_Hanger: 2 1/2"	1	2' - 1"
C-07	Pipe_Hanger: 2 1/2"	6	2' - 2"
C-08	Pipe_Hanger: 2 1/2"	1	2' - 6"
C-09	Pipe_Hanger: 2 1/2"	4	2' - 7"
C-10	Pipe_Hanger: 2 1/2"	4	3' - 0"
C-11	Pipe_Hanger: 2 1/2"	2	3' - 2"
C-12	Pipe_Hanger: 2 1/2"	1	3' - 9"
C-13	Pipe_Hanger: 2 1/2"	12	3' - 10"
C-14	Pipe_Hanger: 2 1/2"	6	4' - 1"
C-15	Pipe_Hanger: 2 1/2"	1	4' - 4"
C-16	Pipe_Hanger: 2 1/2"	2	4' - 9"
C-17	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-18	Pipe_Hanger: 3" Dia	2	1' - 9"
C-19	Pipe_Hanger: 3" Dia	2	2' - 1"

Grand total: 58

LEVEL 03 WATER SUPPLY TRAPEZE HANGER SCHEDULE

Support ID	Family Type	Count	Strut Length	R1=R2 Rod Length+6"
T-01	Strut Hanger	1	1' - 6"	2' - 11"
T-02	Strut Hanger	1	1' - 8"	2' - 5"
T-03	Strut Hanger	2	1' - 8"	2' - 9"
T-04	Strut Hanger	2	1' - 8"	2' - 11"
T-05	Strut Hanger	6	1' - 8"	3' - 0"
T-06	Strut Hanger	6	1' - 8"	3' - 11"
T-07	Strut Hanger	1	1' - 8"	4' - 8"
T-08	Strut Hanger	1	1' - 8"	4' - 11"
T-09	Strut Hanger	1	1' - 8"	5' - 0"
T-10	Strut Hanger	1	1' - 9"	3' - 0"
T-11	Strut Hanger	3	2' - 0"	4' - 6"
T-12	Strut Hanger	1	2' - 4"	7' - 2"
T-13	Strut Hanger	1	2' - 9"	4' - 11"

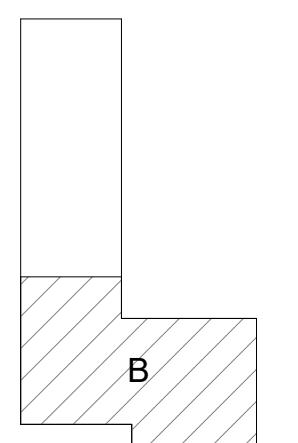
Grand total: 27

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PLUMBING SHOP DRAWINGS

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/9/2023 5:18:19 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- HANGERS ARE DIMENSIONED TO THEIR CENTER OF ROD FROM THE CLOSER COLUMN GRID LINES.
- HANGERS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
- PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
- ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

SHEET NAME:
LEVEL 03 PLUMBING WATER SUPPLY SUPPORT LAYOUT - AREA B

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P305.2



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PLUMBING SHOP DRAWINGS



① LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT- OVERALL
1/8" = 1'-0"

LEVEL 03 SANITARY CLEVIS SUPPORT SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-20	Pipe_Hanger: 2 1/2"	1	4' - 1"
C-21	Pipe_Hanger: 2 1/2"	1	4' - 2"
C-22	Pipe_Hanger: 2 1/2"	3	4' - 3"
C-23	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-24	Pipe_Hanger: 2 1/2"	1	4' - 11"
C-25	Pipe_Hanger: 2" Dia	3	11"
C-26	Pipe_Hanger: 3" Dia	1	1' - 7"
C-27	Pipe_Hanger: 3" Dia	2	1' - 8"
C-28	Pipe_Hanger: 3" Dia	2	1' - 9"
C-29	Pipe_Hanger: 3" Dia	2	1' - 10"
C-30	Pipe_Hanger: 3" Dia	1	1' - 11"
C-31	Pipe_Hanger: 3" Dia	4	2' - 0"
C-32	Pipe_Hanger: 3" Dia	1	2' - 1"
C-33	Pipe_Hanger: 3" Dia	2	2' - 5"
C-34	Pipe_Hanger: 3" Dia	2	2' - 6"
C-35	Pipe_Hanger: 3" Dia	1	2' - 9"
C-36	Pipe_Hanger: 4" Dia	5	10"
C-37	Pipe_Hanger: 4" Dia	4	1' - 0"
C-38	Pipe_Hanger: 4" Dia	1	1' - 3"
C-39	Pipe_Hanger: 4" Dia	1	1' - 8"
C-40	Pipe_Hanger: 4" Dia	1	1' - 9"
C-41	Pipe_Hanger: 4" Dia	5	1' - 10"
C-42	Pipe_Hanger: 4" Dia	3	1' - 11"
C-43	Pipe_Hanger: 4" Dia	2	2' - 0"
C-44	Pipe_Hanger: 4" Dia	5	2' - 1"
C-45	Pipe_Hanger: 4" Dia	3	2' - 2"
C-46	Pipe_Hanger: 4" Dia	11	2' - 3"
C-47	Pipe_Hanger: 4" Dia	6	2' - 4"
C-48	Pipe_Hanger: 4" Dia	1	3' - 3"
C-49	Pipe_Hanger: 4" Dia	7	3' - 4"
C-50	Pipe_Hanger: 4" Dia	3	3' - 5"
C-51	Pipe_Hanger: 4" Dia	6	3' - 6"
C-52	Pipe_Hanger: 4" Dia	2	3' - 7"
C-53	Pipe_Hanger: 4" Dia	1	4' - 0"
C-54	Pipe_Hanger: 4" Dia	4	4' - 1"
C-55	Pipe_Hanger: 4" Dia	1	4' - 2"

Grand total: 100

LEVEL 03 SODA CLEVIS HANGER SCHEDULE

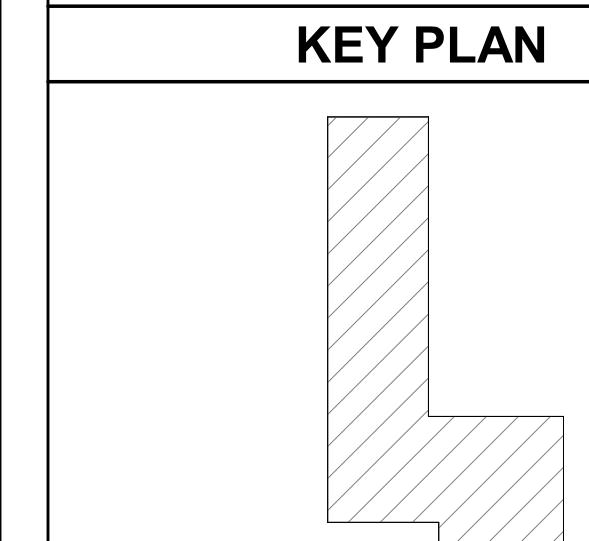
Support ID	Family and Type	Count	Rod Length + 6"
C-56	Pipe_Hanger: 6"	27	2' - 8"
C-57	Pipe_Hanger: 6"	8	4' - 2"

Grand total: 35

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT
■	CLEVIS AND UNISTRUT SUPPORT SODA

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- HANGERS ARE DIMENSIONED TO THEIR CENTER OF ROD FROM THE INSIDE OF THE DUCT/PIPE LINES.
- HANGERS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
- PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
- ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".



PRINTED DATE: 11/9/2023 5:19:23 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

P306

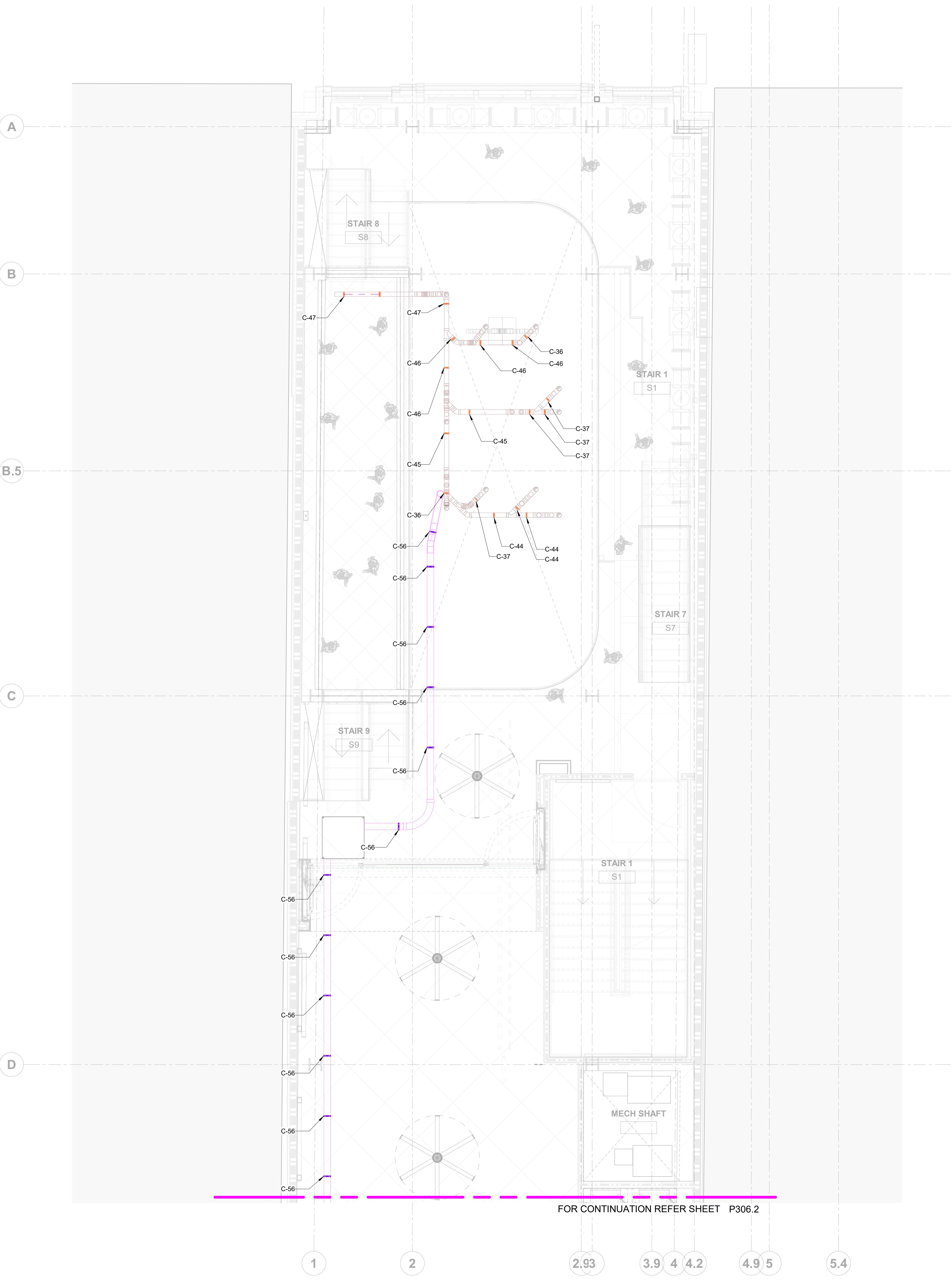


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PLUMBING SHOP DRAWINGS



① LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT- AREA A

1/4" = 1'-0"

LEVEL 03 SANITARY CLEVIS SUPPORT SCHEDULE

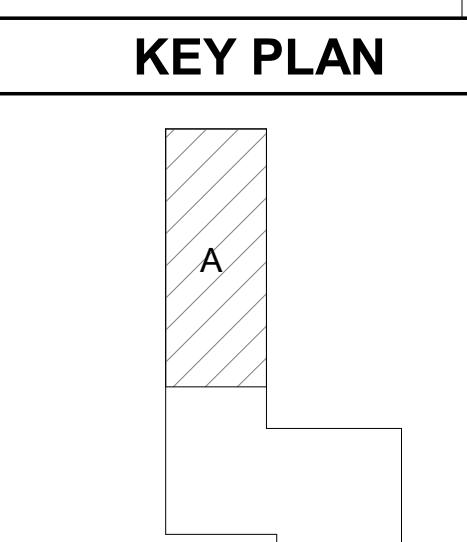
Support ID	Family and Type	Count	Rod Length + 6"
C-20	Pipe_Hanger: 2 1/2"	1	4' - 1"
C-21	Pipe_Hanger: 2 1/2"	1	4' - 2"
C-22	Pipe_Hanger: 2 1/2"	3	4' - 3"
C-23	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-24	Pipe_Hanger: 2 1/2"	1	4' - 11"
C-25	Pipe_Hanger: 2" Dia	3	11"
C-26	Pipe_Hanger: 3" Dia	1	1' - 7"
C-27	Pipe_Hanger: 3" Dia	2	1' - 8"
C-28	Pipe_Hanger: 3" Dia	2	1' - 9"
C-29	Pipe_Hanger: 3" Dia	2	1' - 10"
C-30	Pipe_Hanger: 3" Dia	1	1' - 11"
C-31	Pipe_Hanger: 3" Dia	4	2' - 0"
C-32	Pipe_Hanger: 3" Dia	1	2' - 1"
C-33	Pipe_Hanger: 3" Dia	2	2' - 5"
C-34	Pipe_Hanger: 3" Dia	2	2' - 6"
C-35	Pipe_Hanger: 3" Dia	1	2' - 9"
C-36	Pipe_Hanger: 4" Dia	5	10"
C-37	Pipe_Hanger: 4" Dia	4	1' - 0"
C-38	Pipe_Hanger: 4" Dia	1	1' - 3"
C-39	Pipe_Hanger: 4" Dia	1	1' - 8"
C-40	Pipe_Hanger: 4" Dia	1	1' - 9"
C-41	Pipe_Hanger: 4" Dia	5	1' - 10"
C-42	Pipe_Hanger: 4" Dia	3	1' - 11"
C-43	Pipe_Hanger: 4" Dia	2	2' - 0"
C-44	Pipe_Hanger: 4" Dia	5	2' - 1"
C-45	Pipe_Hanger: 4" Dia	3	2' - 2"
C-46	Pipe_Hanger: 4" Dia	11	2' - 3"
C-47	Pipe_Hanger: 4" Dia	6	2' - 4"
C-48	Pipe_Hanger: 4" Dia	1	3' - 3"
C-49	Pipe_Hanger: 4" Dia	7	3' - 4"
C-50	Pipe_Hanger: 4" Dia	3	3' - 5"
C-51	Pipe_Hanger: 4" Dia	6	3' - 6"
C-52	Pipe_Hanger: 4" Dia	2	3' - 7"
C-53	Pipe_Hanger: 4" Dia	1	4' - 0"
C-54	Pipe_Hanger: 4" Dia	4	4' - 1"
C-55	Pipe_Hanger: 4" Dia	1	4' - 2"

Grand total: 100

LEVEL 03 SODA CLEVIS HANGER SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-56	Pipe_Hanger: 6"	27	2' - 8"
C-57	Pipe_Hanger: 6"	8	4' - 2"

Grand total: 35



PRINTED DATE: 11/9/2023 5:20:16 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT
■	CLEVIS AND UNISTRUT SUPPORT SODA

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. HANGERS ARE DIMENSIONED TO THEIR CENTER OF ROD FROM THE NEAREST COLUMN GRIDS/LINES.
3. HANGERS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
4. PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
5. ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

SHEET NAME: LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

P306.1

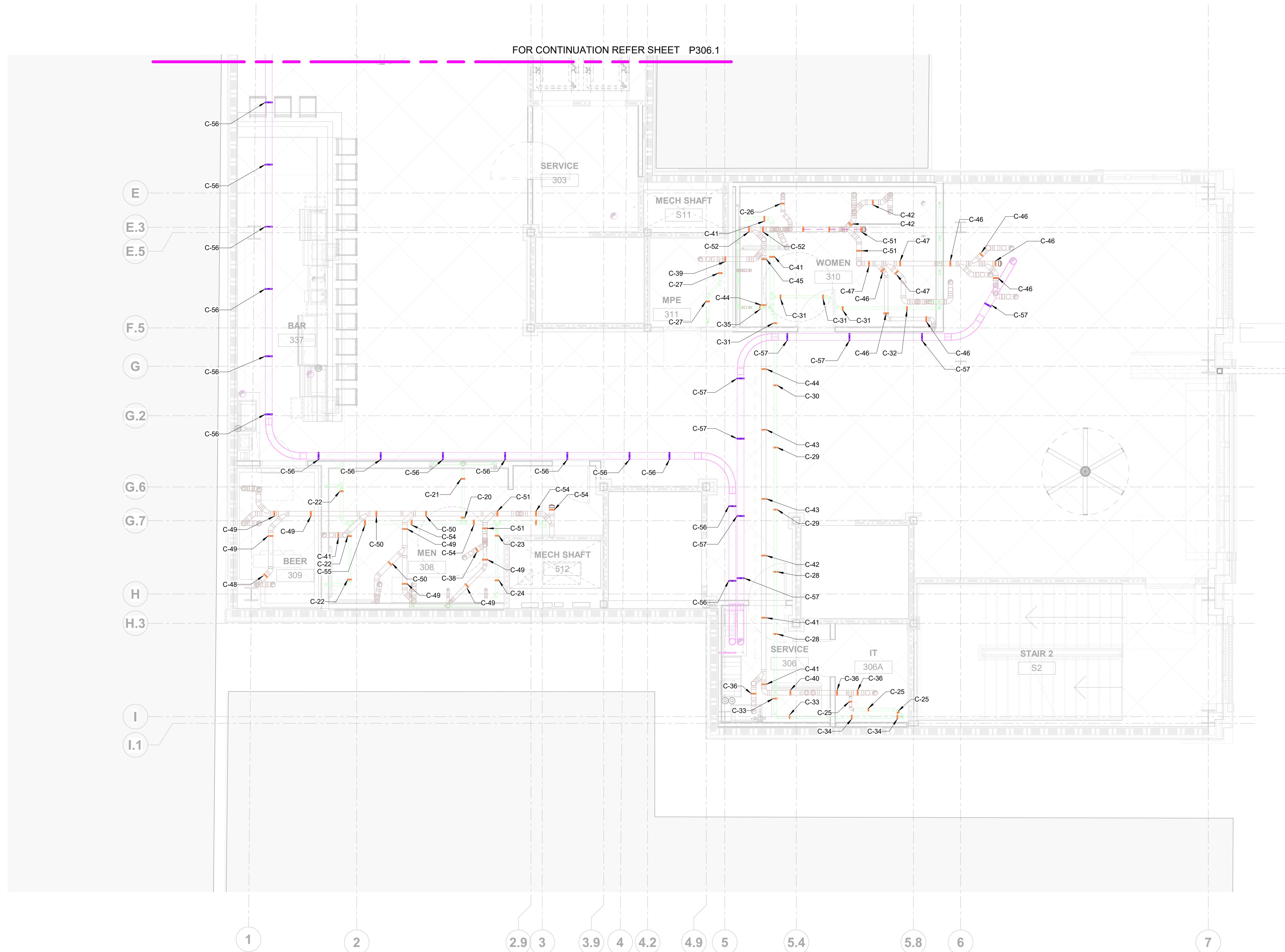


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PLUMBING SHOP DRAWINGS



① LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT- AREA B
1/4" = 1'-0"

LEVEL 03 SANITARY CLEVIS SUPPORT SCHEDULE

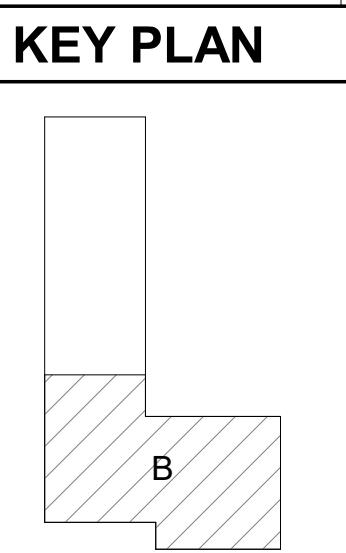
Support ID	Family and Type	Count	Rod Length + 6"
C-20	Pipe_Hanger: 2 1/2"	1	4' - 1"
C-21	Pipe_Hanger: 2 1/2"	1	4' - 2"
C-22	Pipe_Hanger: 2 1/2"	3	4' - 3"
C-23	Pipe_Hanger: 2 1/2"	1	4' - 10"
C-24	Pipe_Hanger: 2 1/2"	1	4' - 11"
C-25	Pipe_Hanger: 2" Dia	3	11"
C-26	Pipe_Hanger: 3" Dia	1	1' - 7"
C-27	Pipe_Hanger: 3" Dia	2	1' - 8"
C-28	Pipe_Hanger: 3" Dia	2	1' - 9"
C-29	Pipe_Hanger: 3" Dia	2	1' - 10"
C-30	Pipe_Hanger: 3" Dia	1	1' - 11"
C-31	Pipe_Hanger: 3" Dia	4	2' - 0"
C-32	Pipe_Hanger: 3" Dia	1	2' - 1"
C-33	Pipe_Hanger: 3" Dia	2	2' - 5"
C-34	Pipe_Hanger: 3" Dia	2	2' - 6"
C-35	Pipe_Hanger: 3" Dia	1	2' - 9"
C-36	Pipe_Hanger: 4" Dia	5	10"
C-37	Pipe_Hanger: 4" Dia	4	1' - 0"
C-38	Pipe_Hanger: 4" Dia	1	1' - 3"
C-39	Pipe_Hanger: 4" Dia	1	1' - 8"
C-40	Pipe_Hanger: 4" Dia	1	1' - 9"
C-41	Pipe_Hanger: 4" Dia	5	1' - 10"
C-42	Pipe_Hanger: 4" Dia	3	1' - 11"
C-43	Pipe_Hanger: 4" Dia	2	2' - 0"
C-44	Pipe_Hanger: 4" Dia	5	2' - 1"
C-45	Pipe_Hanger: 4" Dia	3	2' - 2"
C-46	Pipe_Hanger: 4" Dia	11	2' - 3"
C-47	Pipe_Hanger: 4" Dia	6	2' - 4"
C-48	Pipe_Hanger: 4" Dia	1	3' - 3"
C-49	Pipe_Hanger: 4" Dia	7	3' - 4"
C-50	Pipe_Hanger: 4" Dia	3	3' - 5"
C-51	Pipe_Hanger: 4" Dia	6	3' - 6"
C-52	Pipe_Hanger: 4" Dia	2	3' - 7"
C-53	Pipe_Hanger: 4" Dia	1	4' - 0"
C-54	Pipe_Hanger: 4" Dia	4	4' - 1"
C-55	Pipe_Hanger: 4" Dia	1	4' - 2"

Grand total: 100

LEVEL 03 SODA CLEVIS HANGER SCHEDULE

Support ID	Family and Type	Count	Rod Length + 6"
C-56	Pipe_Hanger: 6"	27	2' - 8"
C-57	Pipe_Hanger: 6"	8	4' - 2"

Grand total: 35



PRINTED DATE: 11/9/2023 5:20:57 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.09.2023

SUPPORT LEGEND	
■	CLEVIS AND UNISTRUT SUPPORT
■	CLEVIS AND UNISTRUT SUPPORT SODA

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- HANGERS ARE DIMENSIONED TO THEIR CENTER OF ROD FROM THE NEAREST COLUMN GRIDS LINES.
- WALLS WHICH ARE CONNECTED BY A MAGENTA DASH LINE ARE TYPICAL.
- PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
- ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

SHEET NAME: LEVEL 03 PLUMBING SANITARY SUPPORT LAYOUT - AREA B

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

P306.2

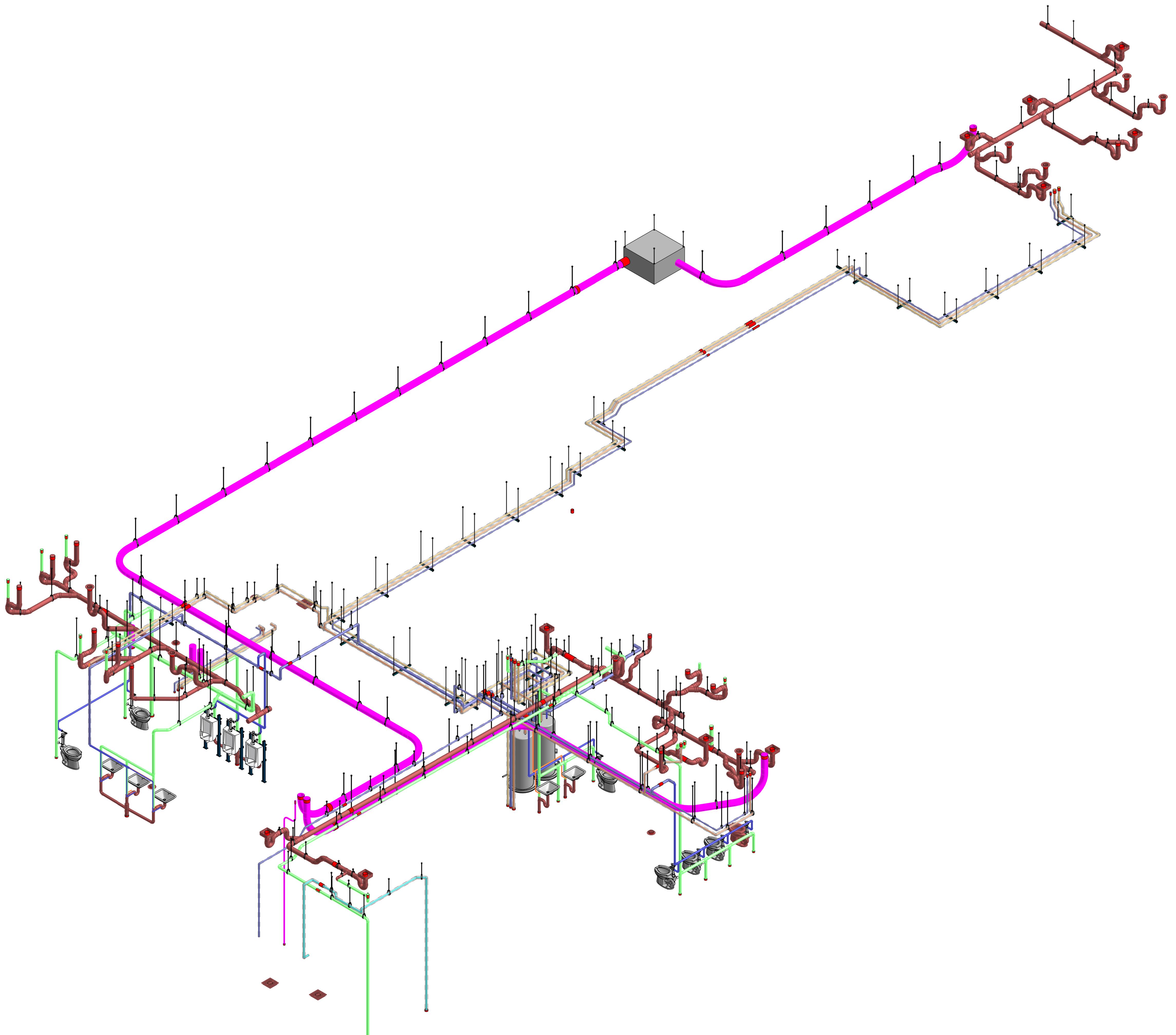


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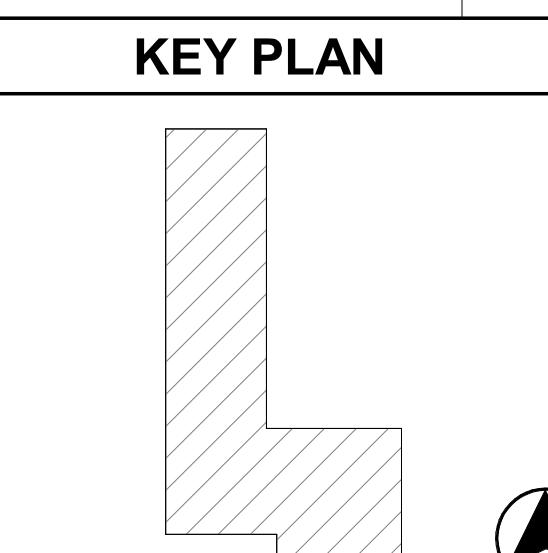
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PLUMBING SHOP DRAWINGS



① 405TI_L03_PLUMBING ISOMETRIC VIEW



PRINTED DATE: 11/9/2023 6:20:01 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.27.2023
R1	For Installation	11.09.2023

SHEET NAME:
LEVEL 03 PLUMBING ISOMETRIC
VIEW OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:



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MECHANICAL SHEET LIST



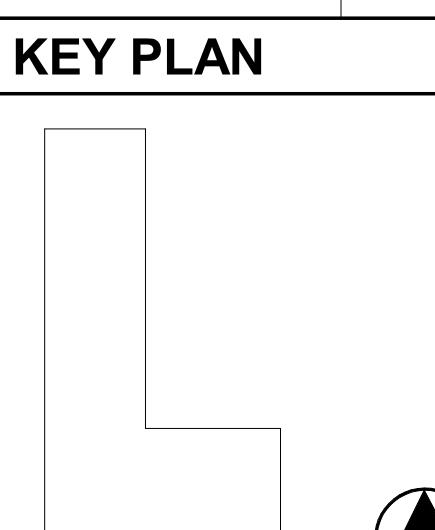
SHEET LIST_MECHANICAL				
SHEET NUMBER	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE	CURRENT REVISION DESCRIPTION
M000	MECHANICAL SHEET LIST			
BASEMENT				
MD001	BASEMENT MECHANICAL DUCTING LAYOUT	R0	09.15.2023	For Design Review
MD002	BASEMENT MECHANICAL DUCTING SECTION DETAILS	R0	09.15.2023	For Design Review
MD003	BASEMENT MECHANICAL DUCTING SUPPORT LAYOUT	R0	09.21.2023	For Design Review
MP001	BASEMENT MECHANICAL PIPING LAYOUT	R0	09.15.2023	For Design Review
MP002	BASEMENT MECHANICAL PIPING SECTION DETAILS	R0	09.15.2023	For Design Review
MP003	BASEMENT MECHANICAL PIPING SUPPORT LAYOUT	R0	09.15.2023	For Design Review
LEVEL 01				
MD101	LEVEL 01 MECHANICAL DUCTING LAYOUT	R0	09.20.2023	For Design Review
MD102	LEVEL 01 MECHANICAL DUCTING SECTION DETAILS	R0	09.20.2023	For Design Review
MD103	LEVEL 01 MECHANICAL DUCTING SUPPORT LAYOUT	R0	09.20.2023	For Design Review
MD104	LEVEL 01 MECHANICAL DUCTING SLAB PENETRATION LAYOUT	R1	10.05.2023	For Installation
MP101	LEVEL 01 MECHANICAL PIPING LAYOUT	R0	09.20.2023	For Design Review
MP102	LEVEL 01 MECHANICAL PIPING SECTION DETAILS	R0	09.20.2023	For Design Review
MP103	LEVEL 01 MECHANICAL PIPING SUPPORT LAYOUT	R0	09.20.2023	For Design Review
MP104	LEVEL 01 MECHANICAL PIPING SLAB PENETRATION LAYOUT	R1	10.05.2023	For Installation
LEVEL 02				
MD201	LEVEL 02 MECHANICAL DUCTING LAYOUT - OVERALL	R0	09.22.2023	For Design Review
MD201.1	LEVEL 02 MECHANICAL DUCTING LAYOUT - AREA A	R0	09.22.2023	For Design Review
MD201.2	LEVEL 02 MECHANICAL DUCTING LAYOUT - AREA B	R0	09.22.2023	For Design Review
MD202	LEVEL 02 MECHANICAL DUCTING - SECTIONS	R0	09.22.2023	For Design Review
MD204	LEVEL 02 MECHANICAL DUCTING SLAB PENETRATION LAYOUT	R0	10.10.2023	For Installation
MD205	LEVEL 02 MECHANICAL DUCTING ISOMETRIC - OVERALL	R0	09.22.2023	For Design Review
MP201	LEVEL 02 MECHANICAL PIPING LAYOUT - OVERALL	R0	09.22.2023	For Design Review
MP201.1	LEVEL 02 MECHANICAL PIPING LAYOUT - AREA A	R1	09.22.2023	For Design Review
MP201.2	LEVEL 02 MECHANICAL PIPING LAYOUT - AREA B	R0	09.22.2023	For Design Review
MP202	LEVEL 02 MECHANICAL PIPING - SECTIONS	R0	09.22.2023	For Design Review
MP204	LEVEL 02 MECHANICAL PIPING SLAB PENETRATION LAYOUT	R1	10.10.2023	For Installation
MP205	LEVEL 02 MECHANICAL PIPING ISOMETRIC - OVERALL	R0	09.22.2023	For Design Review
LEVEL 03				
MD301	LEVEL 03 MECHANICAL DUCTING LAYOUT - OVERALL	R0	09.27.2023	For Design Review
MD301.1	LEVEL 03 MECHANICAL DUCTING LAYOUT - AREA A	R0	09.27.2023	For Design Review
MD301.2	LEVEL 03 MECHANICAL DUCTING LAYOUT - AREA B	R0	09.27.2023	For Design Review
MD302	LEVEL 03 MECHANICAL DUCTING - SECTIONS	R0	09.27.2023	For Design Review
MD304	LEVEL 03 MECHANICAL DUCTING SLAB PENETRATION LAYOUT	R1	10.13.2023	For Installation
MD305	LEVEL 03 MECHANICAL DUCTING ISOMETRIC - OVERALL	R0	09.27.2023	For Design Review
MP301	LEVEL 03 MECHANICAL PIPING LAYOUT - OVERALL	R0	09.27.2023	For Design Review
MP301.1	LEVEL 03 MECHANICAL PIPING LAYOUT - AREA A	R0	09.27.2023	For Design Review
MP301.2	LEVEL 03 MECHANICAL PIPING LAYOUT - AREA B	R0	09.27.2023	For Design Review
MP302	LEVEL 03 MECHANICAL PIPING - SECTIONS	R0	09.27.2023	For Design Review
MP304	LEVEL 03 MECHANICAL PIPING SLAB PENETRATION LAYOUT	R1	10.13.2023	For Installation
MP305	LEVEL 03 MECHANICAL PIPING ISOMETRIC - OVERALL	R0	09.27.2023	For Design Review
LEVEL 04				
MD401	LEVEL 04 MECHANICAL DUCTING LAYOUT - OVERALL	R0	10.09.2023	For Design Review
MD401.1	LEVEL 04 MECHANICAL DUCTING LAYOUT - AREA A	R0	10.09.2023	For Design Review
MD401.2	LEVEL 04 MECHANICAL DUCTING LAYOUT - AREA B	R0	10.09.2023	For Design Review
MD402	LEVEL 04 MECHANICAL DUCTING - SECTIONS	R0	10.09.2023	For Design Review
MD405	LEVEL 04 MECHANICAL DUCTING ISOMETRIC - OVERALL	R0	10.09.2023	For Design Review
MP401	LEVEL 04 MECHANICAL PIPING LAYOUT - OVERALL	R0	10.09.2023	For Design Review

SHEET LIST_MECHANICAL				
SHEET NUMBER	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE	CURRENT REVISION DESCRIPTION
MP401.1	LEVEL 04 MECHANICAL PIPING LAYOUT - AREA A	R0	10.09.2023	For Design Review
MP401.2	LEVEL 04 MECHANICAL PIPING LAYOUT - AREA B	R0	10.09.2023	For Design Review
MP402	LEVEL 04 MECHANICAL PIPING - SECTIONS	R0	10.09.2023	For Design Review
MP404	LEVEL 04 MECHANICAL PIPING SLAB PENETRATION LAYOUT	R0	09.27.2023	For Design Review
MP405	LEVEL 04 MECHANICAL PIPING ISOMETRIC - OVERALL	R0	10.09.2023	For Design Review
LEVEL 05				
MD501	LEVEL 05 MECHANICAL DUCTING LAYOUT - OVERALL	R0	10.18.2023	For Design Review
MD501.1	LEVEL 05 MECHANICAL DUCTING LAYOUT - AREA A	R0	10.18.2023	For Design Review
MD501.2	LEVEL 05 MECHANICAL DUCTING LAYOUT - AREA B	R0	10.18.2023	For Design Review
MD502	LEVEL 05 MECHANICAL DUCTING - SECTIONS	R0	10.18.2023	For Design Review
MD504	LEVEL 05 MECHANICAL DUCTING SLAB PENETRATION LAYOUT	R0	10.09.2023	For Design Review
MD505	LEVEL 05 MECHANICAL DUCTING ISOMETRIC - OVERALL	R0	10.18.2023	For Design Review
MP501	LEVEL 05 MECHANICAL PIPING LAYOUT - OVERALL	R0	10.18.2023	For Design Review
MP501.1	LEVEL 05 MECHANICAL PIPING LAYOUT - AREA A	R0	10.18.2023	For Design Review
MP501.2	LEVEL 05 MECHANICAL PIPING LAYOUT - AREA B	R0	10.18.2023	For Design Review
MP502	LEVEL 05 MECHANICAL PIPING - SECTIONS	R0	10.18.2023	For Design Review
MP504	LEVEL 05 MECHANICAL PIPING SLAB PENETRATION LAYOUT	R0	10.09.2023	For Design Review
MP505	LEVEL 05 MECHANICAL PIPING ISOMETRIC - OVERALL	R0	10.18.2023	For Design Review
ROOF				
MD601	ROOF MECHANICAL DUCTING LAYOUT - OVERALL	R0	10.18.2023	For Design Review
MD601.1	ROOF MECHANICAL DUCTING LAYOUT - AREA A	R0	10.18.2023	For Design Review
MD602	ROOF MECHANICAL DUCTING - SECTIONS	R0	10.18.2023	For Design Review
MD604	ROOF MECHANICAL DUCTING SLAB PENETRATION LAYOUT	R0	10.18.2023	For Design Review
MD605	ROOF MECHANICAL DUCTING ISOMETRIC - OVERALL	R0	10.18.2023	For Design Review
MP601	ROOF MECHANICAL PIPING LAYOUT - OVERALL	R0	10.18.2023	For Design Review
MP601.2	ROOF MECHANICAL PIPING LAYOUT - AREA B	R0	10.18.2023	For Design Review
MP602	ROOF MECHANICAL PIPING - SECTIONS	R0	10.18.2023	For Design Review
MP604	ROOF MECHANICAL PIPING SLAB PENETRATION LAYOUT	R0	10.18.2023	For Design Review
MP605	ROOF MECHANICAL PIPING ISOMETRIC - OVERALL	R0	10.18.2023	For Design Review
TOTAL SHEET COUNT: 72				

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Nashville, TN

MECHANICAL SHOP DRAWINGS



PROJECT NORTH

PRINTED DATE: 10/18/2023 9:28:20 PM

REVISIONS:

Revision Schedule

Revision Number Revision Description Revision Date

SHEET NAME: MECHANICAL SHEET LIST

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

M000



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PH: 08446001000 | FAX: 91-2066280011
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L05 DUCT SCHEDULE			
Duct Type	System Type	Size	Length(Feet)
Rectangular Duct	M-Exhaust Duct	8"x4"	0.3
Round Duct	M-Exhaust Duct	8"ø	2.8
Rectangular Duct	M-Exhaust Duct	10"x8"	0.1
Round Duct	M-Exhaust Duct	10"ø	2.0
Rectangular Duct	M-Exhaust Duct	16"x14"	27.0
Rectangular Duct	M-Kitchen Exhaust Air	16"x18"	8.5
Rectangular Duct	M-Kitchen Exhaust Air	18"x16"	3.6
Rectangular Duct	M-Kitchen Exhaust Air	36"x20"	15.6
Rectangular Duct	M-Makeup Air Duct	26"x34"	0.6
Rectangular Duct	M-Makeup Air Duct	34"x26"	17.5
Rectangular Duct	M-Outside Air Duct	8"x4"	0.7
Round Duct	M-Outside Air Duct	11"ø	6.2
Round Duct	M-Outside Air Duct	14"ø	2.5
Rectangular Duct	M-Outside Air Duct	38"x20"	5.8
Grand total: 29			93.0

Rectangular Duct	M-Kitchen Exhaust Air	16"x18"	8.5
Rectangular Duct	M-Kitchen Exhaust Air	18"x16"	3.6
Rectangular Duct	M-Kitchen Exhaust Air	36"x20"	15.6

Rectangular Duct	M-Makeup Air Duct	26"x34"	0.6
Rectangular Duct	M-Makeup Air Duct	34"x26"	17.5

Rectangular Duct	M-Outside Air Duct	8"x4"	0.7
Round Duct	M-Outside Air Duct	11"ø	6.2
Round Duct	M-Outside Air Duct	14"ø	2.5
Rectangular Duct	M-Outside Air Duct	38"x20"	5.8

Grand total: 29 93.0

L05 DIFFUSER SCHEDULE		
Diffuser Tag	Type	Count
EA-1	08"x04"	1
EA-2	10"x08"	1
OA-1	08"x04"	1
OA-2	08"x04"	1
4		

EA-1	08"x04"	1
EA-2	10"x08"	1
OA-1	08"x04"	1
OA-2	08"x04"	1

COLOUR LEGEND	
EXHAUST AIR	
SUPPLY AIR	
OUTSIDE AIR DUCT	
KITCHEN EXHAUST AIR	

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR

- GENERAL NOTES
- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
 - ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
 - ALL DIMENSIONS ARE FROM DUCT.

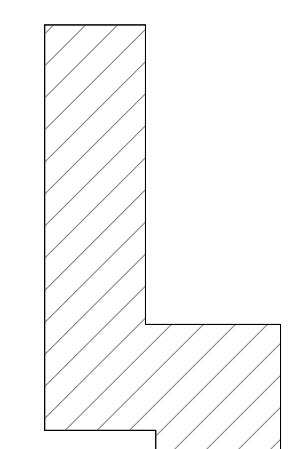
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MECHANICAL SHOP DRAWINGS

KEY PLAN



PROJECT NORTH

PRINTED DATE: 10/18/2023 9:28:21 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023

SHEET NAME:
LEVEL 05 MECHANICAL DUCTING
LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MD501



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L05 DUCT SCHEDULE

Duct Type	System Type	Size	Length(Feet)
Rectangular Duct	M-Exhaust Duct	8"x4"	0.3
Round Duct	M-Exhaust Duct	8"ø	2.8
Rectangular Duct	M-Exhaust Duct	10"x8"	0.1
Round Duct	M-Exhaust Duct	10"ø	2.0
Rectangular Duct	M-Exhaust Duct	16"x14"	27.0
Rectangular Duct	M-Kitchen Exhaust Air	16"x18"	8.5
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Rectangular Duct	M-Kitchen Exhaust Air	36"x20"	15.6
Rectangular Duct	M-Makeup Air Duct	26"x34"	0.6
Rectangular Duct	M-Makeup Air Duct	34"x26"	17.5
Rectangular Duct	M-Outside Air Duct	8"x4"	0.7
Round Duct	M-Outside Air Duct	11"ø	6.2
Round Duct	M-Outside Air Duct	14"ø	2.5
Rectangular Duct	M-Outside Air Duct	38"x20"	5.8
Grand total: 29			93.0

L05 DIFFUSER SCHEDULE

Diffuser Tag	Type	Count
EA-1	08"x04"	1
EA-2	10"x08"	1
OA-1	08"x04"	1
OA-2	08"x04"	1
4		

COLOUR LEGEND	
EXHAUST AIR	
SUPPLY AIR	
OUTSIDE AIR DUCT	
KITCHEN EXHAUST AIR	

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR

GENERAL NOTES

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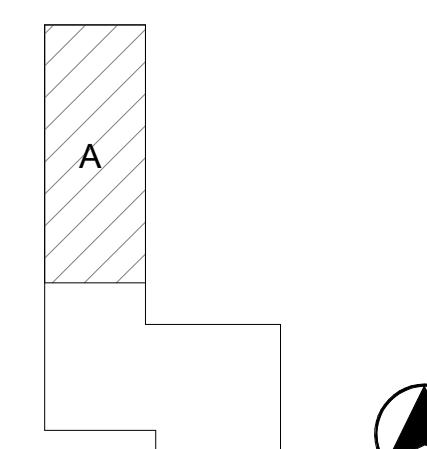
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MECHANICAL SHOP DRAWINGS

KEY PLAN



PRINTED DATE: 10/18/2023 9:28:21 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023

SHEET NAME: LEVEL 05 MECHANICAL DUCTING LAYOUT - AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MD501.1



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MECHANICAL SHOP DRAWINGS

The diagram shows a detailed architectural floor plan of a building section. At the top, a horizontal pink bar contains the text "FOR CONTINUATION REFER SHEET MD501.1". The plan includes several labeled areas and dimensions:

- MUSIC PLATFORM (361):** Located on the left side. It features a central circular feature with a diameter of 9' - 2 1/2". The platform has a total width of 8' - 8 7/8" and a height of 7' - 1 1/2". A small room adjacent to it has a width of 10' 0" EA and a height of 10' 0" EA.
- SERVICE (503):** A large rectangular room located above the music platform.
- MECH SHAFT (S11):** A vertical shaft on the left side with a width of 2' - 5 7/16" and a height of 5' - 4 3/16".
- MECH SHAFT (S12):** A vertical shaft on the right side with a width of 2' - 5 7/16" and a height of 5' - 4 3/16".
- BAR (4):** A room located at the top left.
- BAR (2):** A room located on the right side.
- STAIR 2 (S2):** A staircase located at the bottom center.
- 4TH AVE ROOF DECK (6):** An external roof deck area.
- WOMEN'S RESTROOM (POC 508):** A room located near the bottom left, featuring a circular fixture with a diameter of 5' - 7 3/16" and a height of 5' - 7 7/16".
- MECH SHAFT (POC 513):** A vertical shaft located between the women's restroom and the main structure, with a width of 4' - 2 13/16" and a height of 6' - 5 5/8".
- Dimensions:** Various dimensions are provided throughout the plan, such as 11' 0" OA BOD 9' - 5 1/2", 8' x 4' OA BOD 9' - 9", 8' x 4' EA BOD 6' - 8", 8' x 4' EA BOD 6' - 10", 4' - 8 9/16", 7' - 7 5/16", 6' - 2 11/16", 6' - 2 1/4", and 5' - 8 1/4".

L05 DUCT SCHEDULE

Duct Type	System Type	Size	Length(Feet)
Rectangular Duct	M-Exhaust Duct	8"x4"	0.3
Round Duct	M-Exhaust Duct	8"Ø	2.8
Rectangular Duct	M-Exhaust Duct	10"x8"	0.1
Round Duct	M-Exhaust Duct	10"Ø	2.0
Rectangular Duct	M-Exhaust Duct	16"x14"	27.0
Rectangular Duct	M-Kitchen Exhaust Air	16"x18"	8.5
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Rectangular Duct	M-Kitchen Exhaust Air	36"x20"	15.6
Rectangular Duct	M-Makeup Air Duct	26"x34"	0.6
Rectangular Duct	M-Makeup Air Duct	34"x26"	17.5
Rectangular Duct	M-Outside Air Duct	8"x4"	0.7
Round Duct	M-Outside Air Duct	11"Ø	6.2
Round Duct	M-Outside Air Duct	14"Ø	2.5
Rectangular Duct	M-Outside Air Duct	38"x20"	5.8
Grand total: 29			93.0

L05 DIFFUSER SCHEDULE		
Diffuser Tag	Type	Count
EA-1	08"x04"	1
EA-2	10"x08"	1
OA-1	08"x04"	1
OA-2	08"x04"	1

GENERAL NOTES

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UPDATED DRAWING TO BE SHARED FOR INSTALLATION.**

SHEET NAME:
**LEVEL 05 MECHANICAL DUCTING
LAYOUT - AREA B**

SHEET SIZE: ARCH E1 (42 X 30)

SHEET NUMBER:

MD501.2

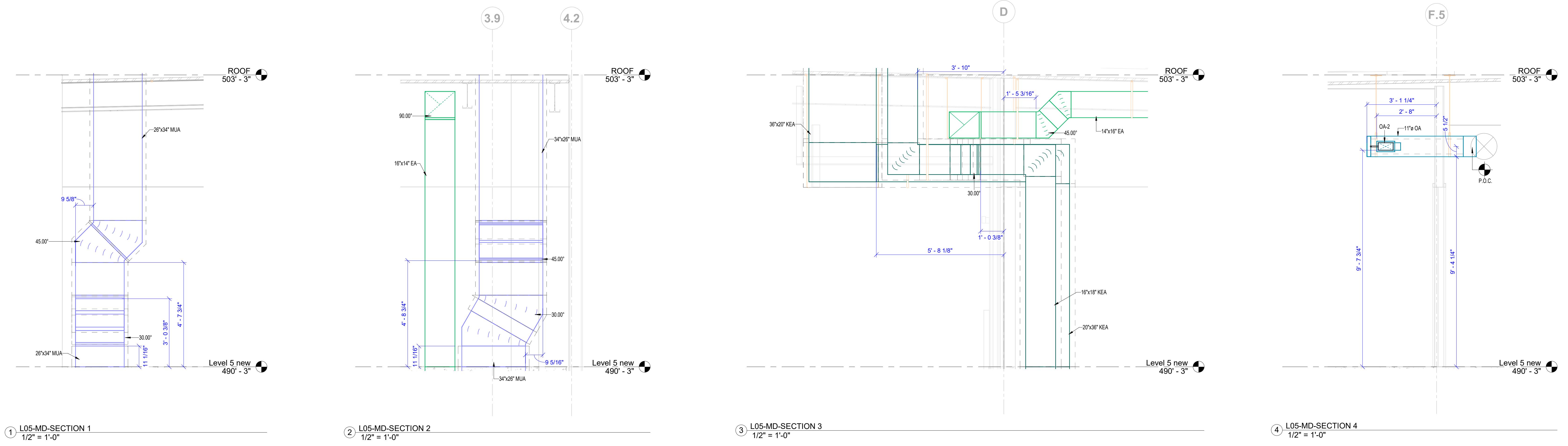


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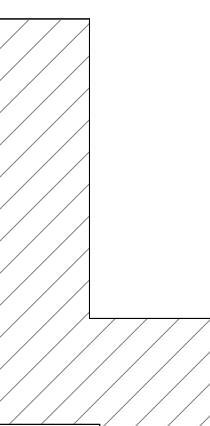
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RUNNING A SUPPORT RANKINGS



KEY PLAN



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COLOUR LEGEND
WHITE AIR
BLACK AIR
DUCT AIR
EXHAUST AIR

ABBREVIATIONS

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MAA	MAKE UP AIR

GENERAL NOTES

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E: 05 MECHANICAL DUCTING -

ARCH E

MD502



Hill Ave, Nashville, TN 37210

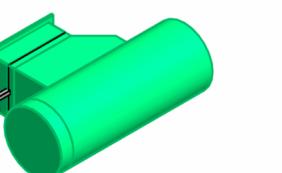
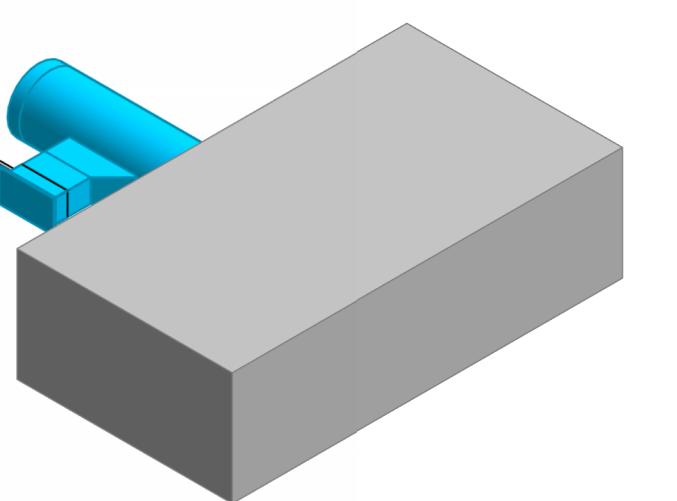
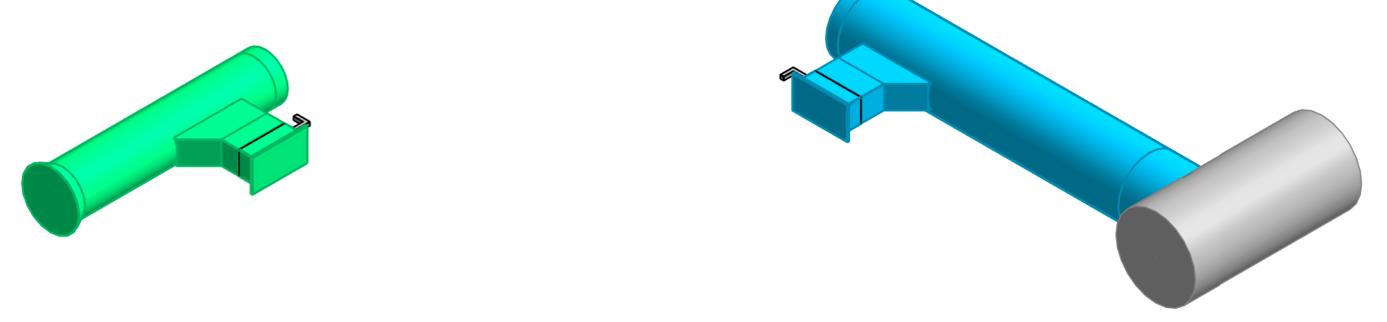
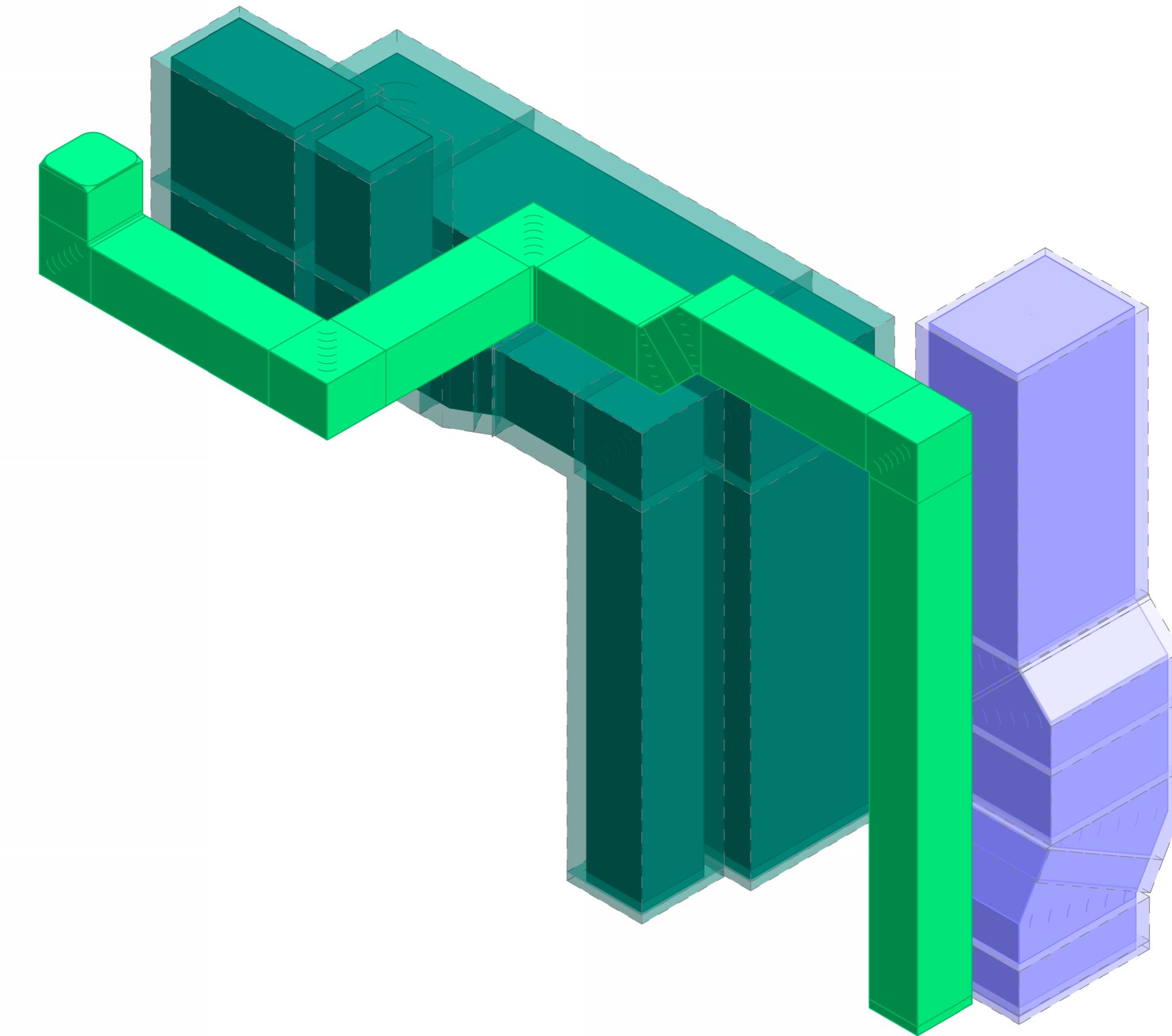


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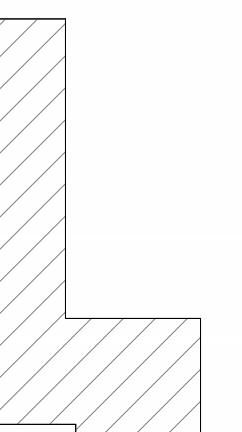
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MECHANICAL SHOP DRAWINGS



KEY PLAN



EF: 10/18/2023 9:28:35 PM

Revision Schedule

Revision Number	Revision Description	Revision Date
	For Design Review	10.18.2023

T NAME: TEL 05 MECHANICAL DUCTING METRIC - OVERALL

LETTER SIZE: ARCH E1 (42 X 30 INCHES)

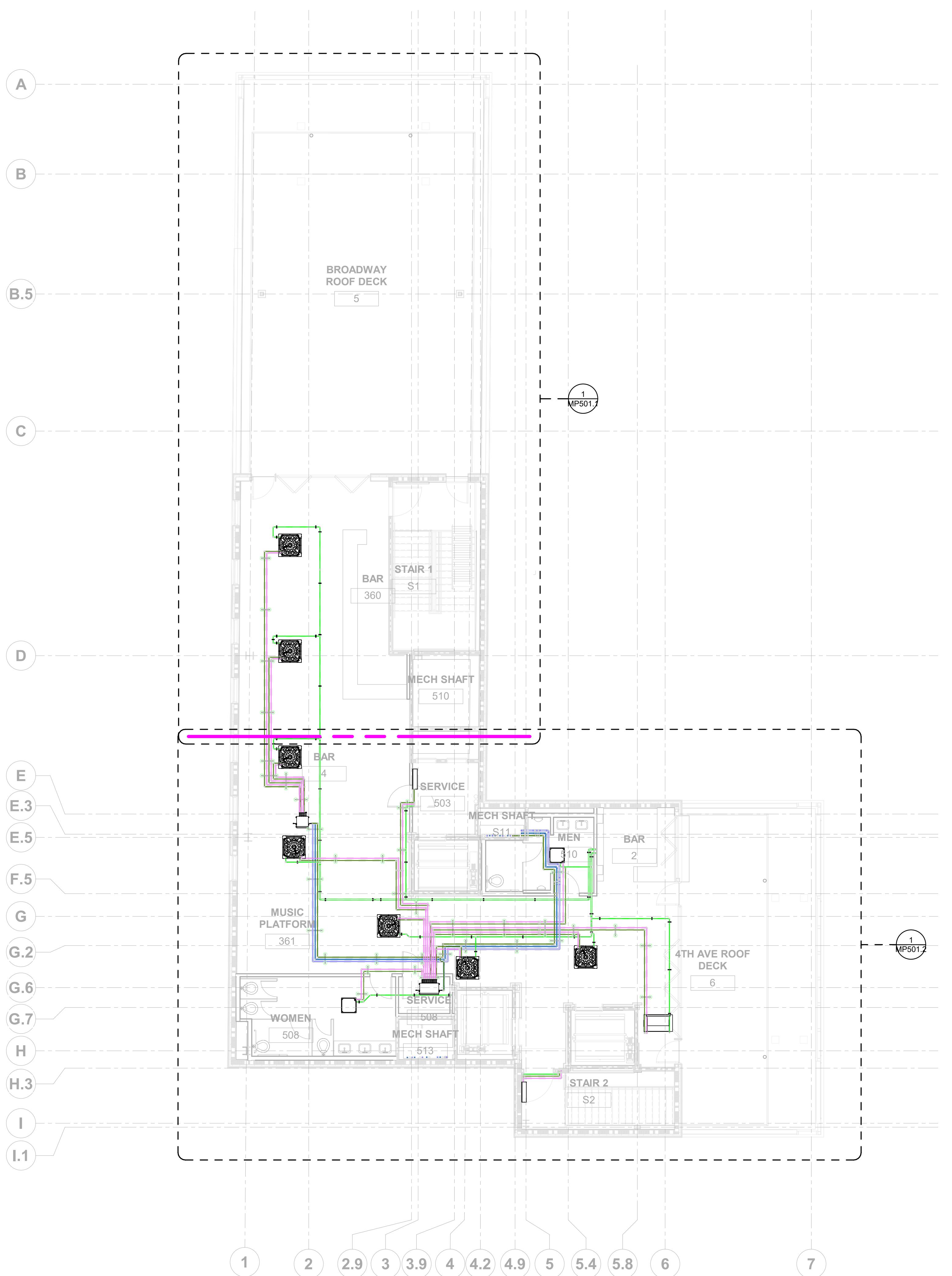
1 SIZE: ARCHITECTURAL (42 X 30 INCHES)

0505

1 LEVEL 05 MECHANICAL DUCTING ISOMETRIC - OVERALL



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L05 PIPE SCHEDULE			
System Type	Family and Type	Size	Length(Feet)
MP-Condensate Drain	Pipe Types: COPPER	1 1/2"ø	20.9
MP-Condensate Drain	Pipe Types: COPPER	1"ø	37.0
MP-Condensate Drain	Pipe Types: COPPER	2"ø	70.2
MP-Condensate Drain	Pipe Types: COPPER	3/4"ø	153.9
MP-High Pressure Gas	Pipe Types: COPPER	1"ø	195.0
MP-High Pressure Gas	Pipe Types: COPPER	3/4"ø	42.7
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"ø	110.3
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"ø	54.4
MP-Low Pressure Gas	Pipe Types: COPPER	1"ø	55.6
MP-Refrigerent Liquid	Pipe Types: COPPER	1/2"ø	36.4
MP-Refrigerent Liquid	Pipe Types: COPPER	1/4"ø	104.6
MP-Refrigerent Liquid	Pipe Types: COPPER	3/4"ø	72.0
MP-Refrigerent Liquid	Pipe Types: COPPER	3/8"ø	227.4
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"ø	122.9
MP-Refrigerant Suction	Pipe Types: COPPER	1/2"ø	104.5
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"ø	217.7
			1625.4

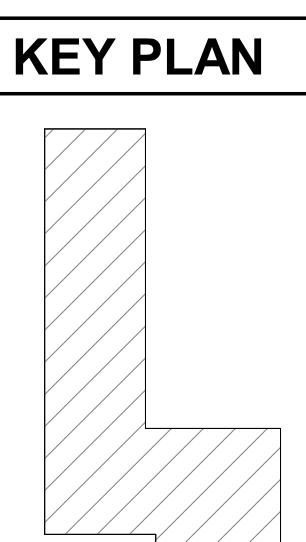
L05 PIPE FITTINGS SCHEDULE			
Family and Type	System Type	Size	Count
Elbow - Generic: Standard	MP-Condensate Drain	1"ø-1"ø	4
Elbow - Generic: Standard	MP-Condensate Drain	2"ø-2"ø	6
Elbow - Generic: Standard	MP-Condensate Drain	3/4"ø-3/4"ø	32
Elbow - Generic: Standard	MP-High Pressure Gas	1"ø-1"ø	5
Elbow - Generic: Standard	MP-High Pressure Gas	3/4"ø-3/4"ø	5
Elbow - Generic: Standard	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	5
Elbow - Generic: Standard	MP-Low Pressure Gas	1"ø-1"ø	5
Elbow - Generic: Standard	MP-Refrigerent Liquid	1/2"ø-1/2"ø	3
Elbow - Generic: Standard	MP-Refrigerent Liquid	1/4"ø-1/4"ø	16
Elbow - Generic: Standard	MP-Refrigerent Liquid	3/8"ø-3/8"ø	47
Elbow - Generic: Standard	MP-Refrigerent Liquid	5/8"ø-5/8"ø	5
Elbow - Generic: Standard	MP-Refrigerant Suction	1/2"ø-1/2"ø	18
Elbow - Generic: Standard	MP-Refrigerant Suction	5/8"ø-5/8"ø	43
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1 1/2"ø-1"ø	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1 1/2"ø-3/4"ø	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1"ø-3/4"ø	6
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"ø-1 1/2"ø	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"ø-1"ø	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"ø-3/4"ø	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-High Pressure Gas	1"ø-3/4"ø	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Low Pressure Gas	1 1/2"ø-1"ø	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Refrigerent Liquid	5/8"ø-1/2"ø	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Refrigerent Liquid	5/8"ø-3/8"ø	1
Nibco CU 606 45 Elbow C x C: Nibco CU	MP-Condensate Drain	3/4"ø-3/4"ø	2
Nibco CU 607 90 Elbow Close Rough C x C: Nibco CU	MP-Condensate Drain	3/4"ø-3/4"ø	1
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Condensate Drain	1 1/2"ø-1 1/2"ø	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Condensate Drain	1"ø-1"ø	1
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Condensate Drain	2"ø-2"ø	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Condensate Drain	3/4"ø-3/4"ø	6
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-High Pressure Gas	1"ø-1"ø	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Low Pressure Gas	1 1/4"ø-1 1/4"ø	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Refrigerent Liquid	1/4"ø-1/4"ø	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Refrigerent Liquid	3/8"ø-3/8"ø	6
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Refrigerent Liquid	5/8"ø-5/8"ø	9
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Refrigerant Suction	1/2"ø-1/2"ø	5
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU	MP-Refrigerant Suction	5/8"ø-5/8"ø	6
Tee - Generic: Standard	MP-Condensate Drain	1 1/2"ø-1 1/2"ø-1 1/2"ø	2
Tee - Generic: Standard	MP-Condensate Drain	1"ø-1"ø-1"ø	2
Tee - Generic: Standard	MP-Condensate Drain	2"ø-2"ø-2"ø	2
Tee - Generic: Standard	MP-Condensate Drain	3/4"ø-3/4"ø-3/4"ø	2
Tee - Generic: Standard	MP-High Pressure Gas	1"ø-1"ø-1"ø	1
Tee - Generic: Standard	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
Tee - Generic: Standard	MP-Refrigerent Liquid	1/4"ø-1/4"ø-1/4"ø	1
Tee - Generic: Standard	MP-Refrigerent Liquid	5/8"ø-5/8"ø-5/8"ø	1
Tee - Generic: Standard	MP-Refrigerant Suction	1/2"ø-1/2"ø-1/2"ø	1

LEGENDS		ABBREVIATIONS	
■	REFRIGERENT SUCTION	RS	REFRIGERENT SUCTION
■	REFRIGERENT LIQUID	RL	REFRIGERENT LIQUID
■	LOW PRESSURE GAS	LPG	LOW PRESSURE GAS
■	HIGH PRESSURE GAS	HPG	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN	CD	MP CONDENSATE DRAIN
■	COMBUSTION AIR	CA	COMBUSTION AIR
■	NATURAL GAS	NG	NATURAL GAS

405 BROADWAY TI

Nashville, TN

MECHANICAL SHOP DRAWINGS



PROJECT NORTH

PRINTED DATE: 10/18/2023 9:28:41 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023

SHEET NAME: LEVEL 05 MECHANICAL PIPING LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MP501

GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

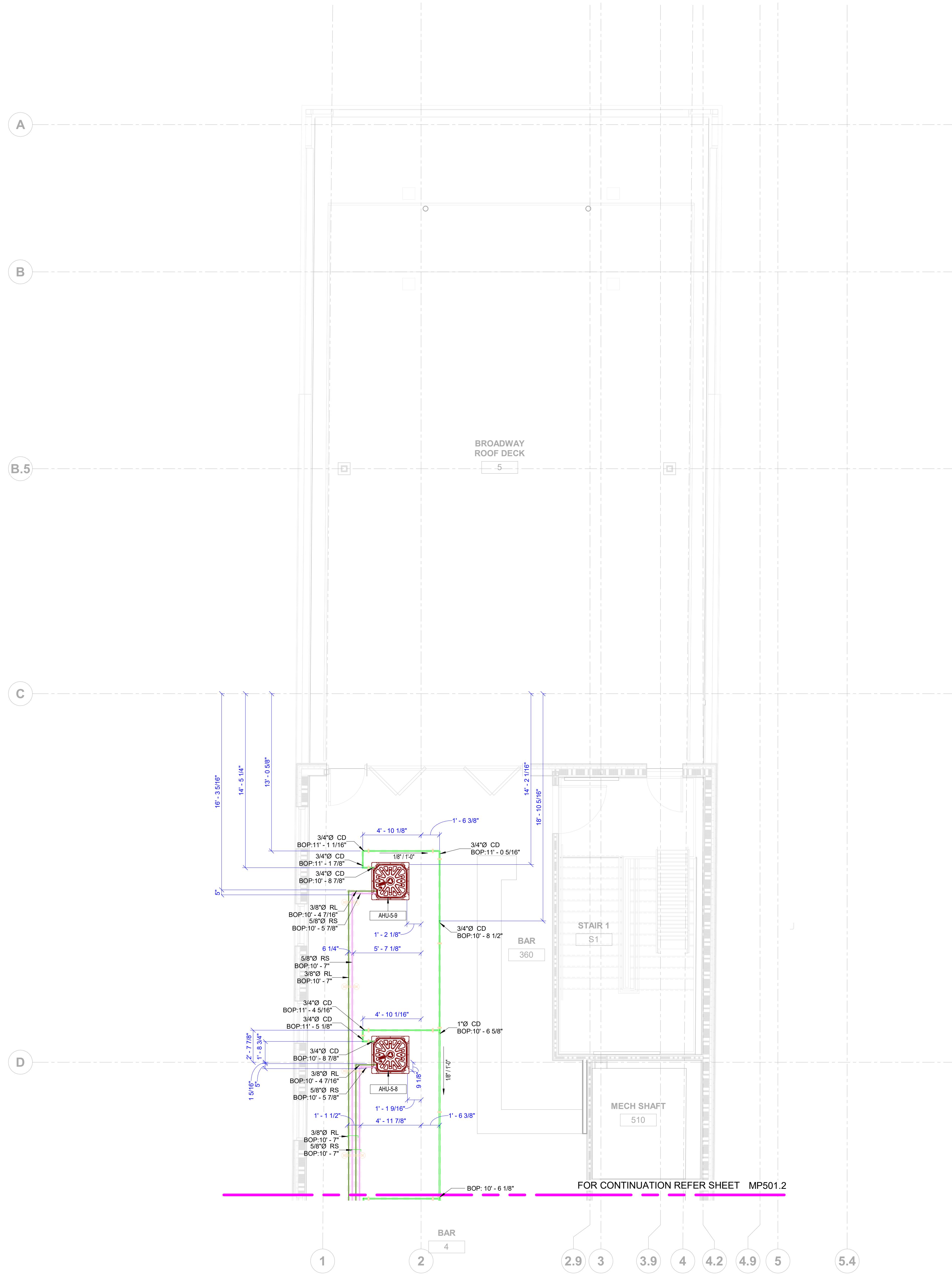
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L05 PIPE SCHEDULE			
System Type	Family and Type	Size	Length(Feet)
MP-Condensate Drain	Pipe Types: COPPER	1 1/2"	20.9
MP-Condensate Drain	Pipe Types: COPPER	1"	37.0
MP-Condensate Drain	Pipe Types: COPPER	2"	70.2
MP-Condensate Drain	Pipe Types: COPPER	3/4"	153.9
MP-High Pressure Gas	Pipe Types: COPPER	1"	195.0
MP-High Pressure Gas	Pipe Types: COPPER	3/4"	42.7
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"	110.3
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"	54.4
MP-Low Pressure Gas	Pipe Types: COPPER	1"	55.6
MP-Refregerent Liquid	Pipe Types: COPPER	1/2"	36.4
MP-Refregerent Liquid	Pipe Types: COPPER	1/4"	104.6
MP-Refregerent Liquid	Pipe Types: COPPER	3/4"	72.0
MP-Refregerent Liquid	Pipe Types: COPPER	3/8"	227.4
MP-Refregerent Liquid	Pipe Types: COPPER	5/8"	122.9
MP-Refrigerant Suction	Pipe Types: COPPER	1/2"	104.5
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"	217.7

1625.4



L05 PIPE FITTINGS SCHEDULE			
Family and Type	System Type	Size	Count
Elbow - Generic: Standard	MP-Condensate Drain	1"o-1"	4
Elbow - Generic: Standard	MP-Condensate Drain	2"o-2"	6
Elbow - Generic: Standard	MP-Condensate Drain	3/4"o-3/4"	32
Elbow - Generic: Standard	MP-High Pressure Gas	1"o-1"	5
Elbow - Generic: Standard	MP-High Pressure Gas	3/4"o-3/4"	5
Elbow - Generic: Standard	MP-Low Pressure Gas	1 1/2"o-1 1/2"	5
Elbow - Generic: Standard	MP-Low Pressure Gas	1"o-1"	5
Elbow - Generic: Standard	MP-Refregerent Liquid	1/2"o-1/2"	3
Elbow - Generic: Standard	MP-Refregerent Liquid	1/4"o-1/4"	16
Elbow - Generic: Standard	MP-Refregerent Liquid	3/8"o-3/8"	47
Elbow - Generic: Standard	MP-Refregerent Liquid	5/8"o-5/8"	5
Elbow - Generic: Standard	MP-Refrigerant Suction	1/2"o-1/2"	18
Elbow - Generic: Standard	MP-Refrigerant Suction	5/8"o-5/8"	43
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1 1/2"o-1"	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1 1/2"o-3/4"	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	1"o-3/4"	6
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"o-1 1/2"	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"o-1"	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Condensate Drain	2"o-3/4"	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-High Pressure Gas	1"o-3/4"	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Low Pressure Gas	1 1/2"o-1"	2
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Refregerent Liquid	5/8"o-1/2"	1
Nibco CU 600 Reducing Coupling C x C: Nibco CU	MP-Refregerent Liquid	5/8"o-3/8"	1
Nibco CU 606 45 Elbow C x C: Nibco CU	MP-Condensate Drain	3/4"o-3/4"	2
Nibco CU 607 90 Elbow Close Rough C x C: Nibco CU_1/8" to 8"	MP-Condensate Drain	3/4"o-3/4"	1
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Condensate Drain	1 1/2"o-1 1/2"	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Condensate Drain	1"o-1"	1
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Condensate Drain	2"o-2"	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Condensate Drain	3/4"o-3/4"	6
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Condensate Drain	3/4"o-3/4"	1
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-High Pressure Gas	1"o-1"	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Low Pressure Gas	1 1/2"o-1 1/2"	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Low Pressure Gas	1 1/4"o-1 1/4"	2
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Refregerent Liquid	14"o-1/4"	7
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Refregerent Liquid	3/8"o-3/8"	6
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Refregerent Liquid	5/8"o-5/8"	9
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Refrigerant Suction	1/2"o-1/2"	5
Nibco CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_1/8" to 4"	MP-Refrigerant Suction	5/8"o-5/8"	6
Tee - Generic: Standard	MP-Condensate Drain	1 1/2"o-1 1/2"o-1 1/2"	2
Tee - Generic: Standard	MP-Condensate Drain	1"o-1"o-1"	2
Tee - Generic: Standard	MP-Condensate Drain	2"o-2"o-2"	2
Tee - Generic: Standard	MP-Condensate Drain	3/4"o-3/4"o-3/4"	2
Tee - Generic: Standard	MP-High Pressure Gas	1"o-1"	1
Tee - Generic: Standard	MP-Low Pressure Gas	1 1/2"o-1 1/2"o-1 1/2"	1
Tee - Generic: Standard	MP-Refregerent Liquid	14"o-1/4"o-1/4"	1
Tee - Generic: Standard	MP-Refregerent Liquid	5/8"o-5/8"o-5/8"	1
Tee - Generic: Standard	MP-Refrigerant Suction	1/2"o-1/2"o-1/2"	1

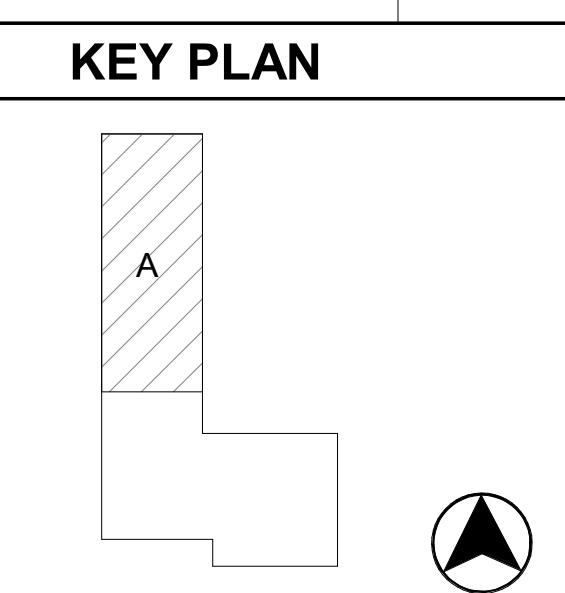
LEGENDS		ABBREVIATIONS	
■	REFRIGERANT SUCTION	■	REFRIGERANT SUCTION
■	REFRIGERANT LIQUID	■	REFRIGERANT LIQUID
■	LOW PRESSURE GAS	■	LOW PRESSURE GAS
■	HIGH PRESSURE GAS	■	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN	■	MP CONDENSATE DRAIN
■	COMBUSTION AIR	■	COMBUSTION AIR
■	NATURAL GAS	■	NATURAL GAS

GENERAL NOTES	
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES	
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID	
3. ALL DIMENSIONS ARE FROM PIPE INSULATION	
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SHEET NAME: LEVEL 05 MECHANICAL PIPING LAYOUT - AREA A	
SHEET SIZE: ARCH E1 (42 X 30 INCHES)	
SHEET NUMBER:	
MP501.1	

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MECHANICAL SHOP DRAWINGS



PRINTED DATE: 10/18/2023 9:28:42 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023

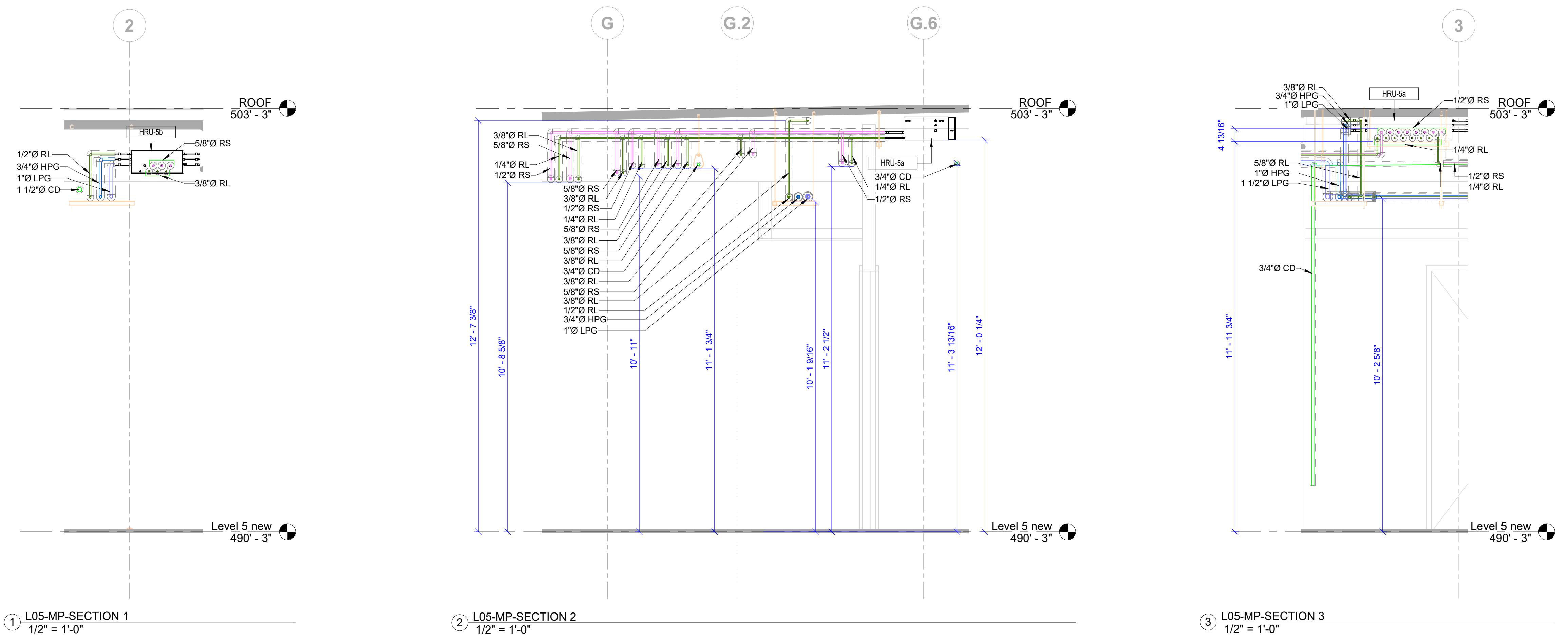


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MECHANICAL SHOP DRAWINGS



LEGENDS	
■	REFRIGERANT SUCTION
■	REFRIGERANT LIQUID
■	LOW PRESSURE GAS
■	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN
■	COMBUSTION AIR
■	NATURAL GAS

ABBREVIATIONS	
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
LPG	LOW PRESSURE GAS
HPG	HIGH PRESSURE GAS
CD	MP CONDENSATE DRAIN
CA	COMBUSTION AIR
NG	NATURAL GAS

SHEET NAME: LEVEL 05 MECHANICAL PIPING - SECTIONS

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

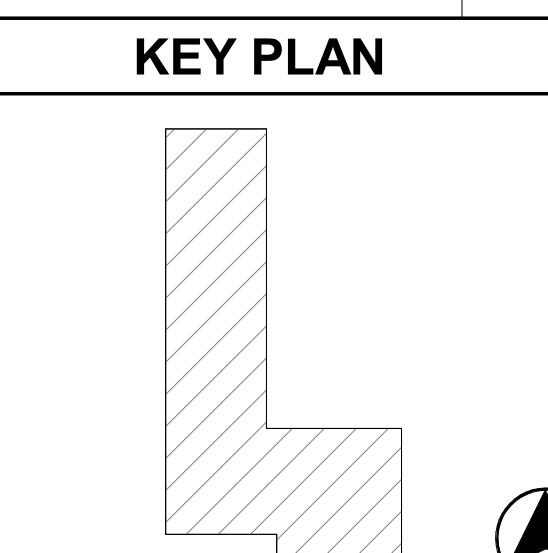
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SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MP502



PROJECT NORTH

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REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023

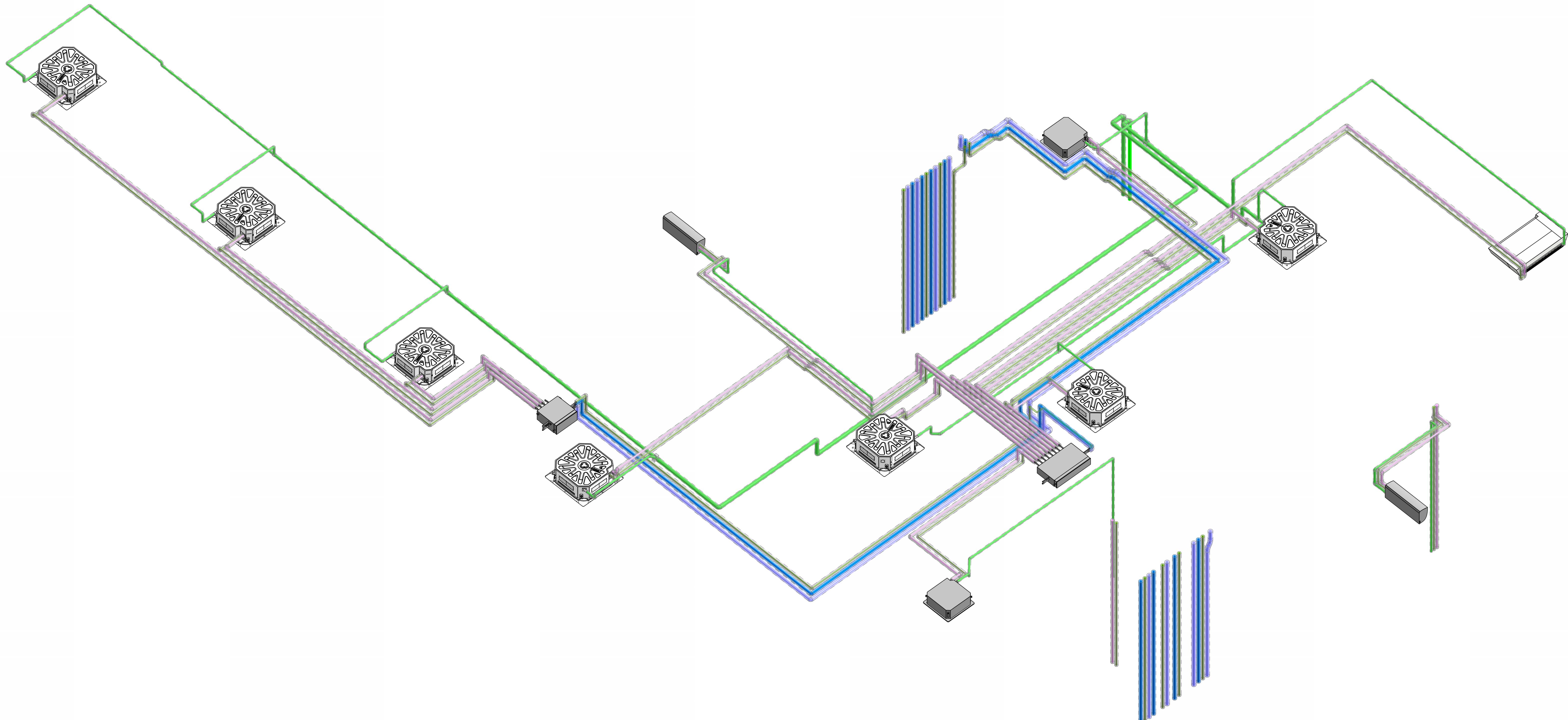


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MECHANICAL SHOP DRAWINGS



KEY PLAN

The diagram consists of two separate parts. On the left, there is a square divided into four quadrants by diagonal lines, with the top-left quadrant shaded in gray. On the right, there is a circle containing a black triangle pointing upwards.

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REVISIONS:

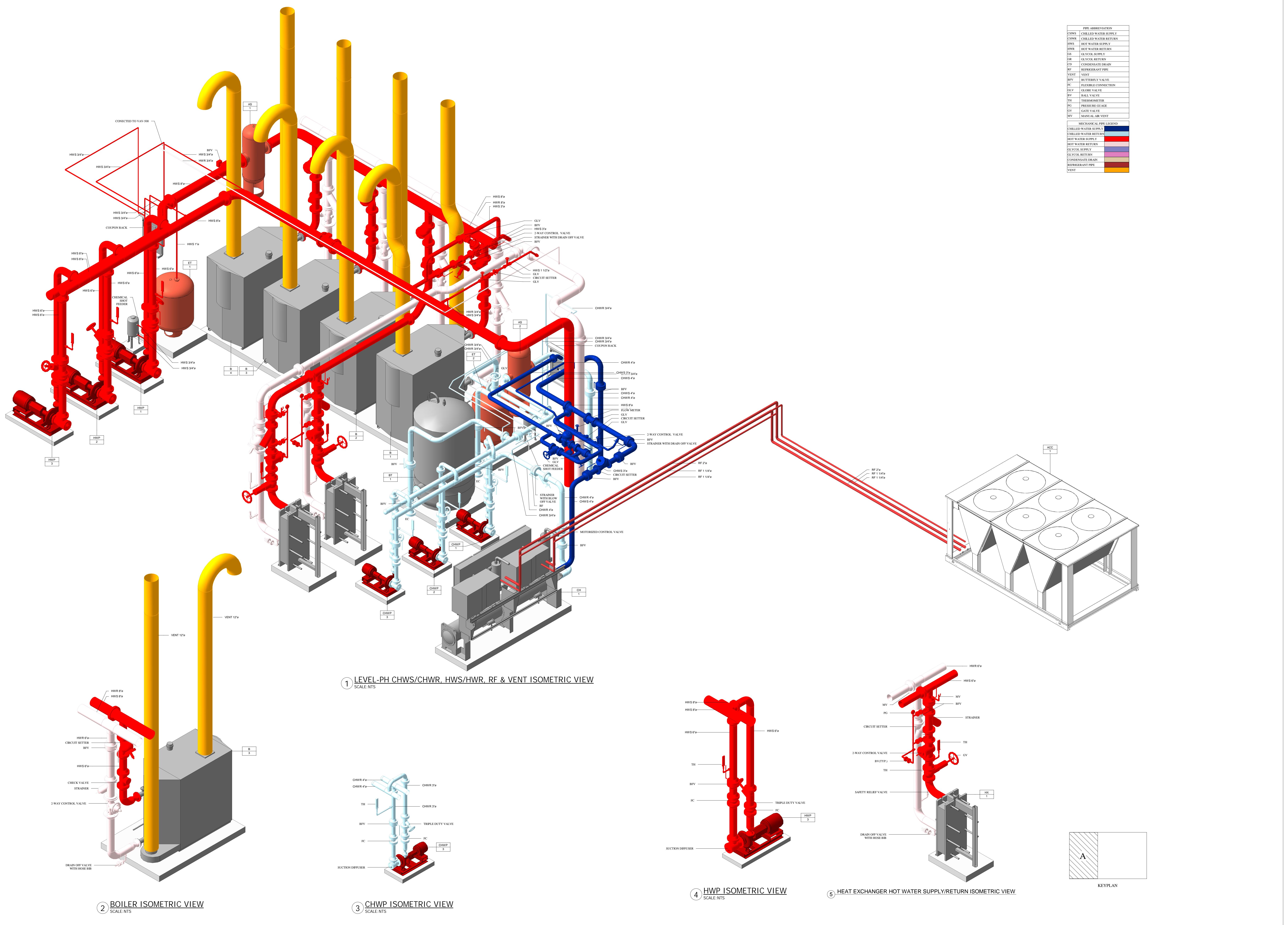
Revision	Schedule	Revision
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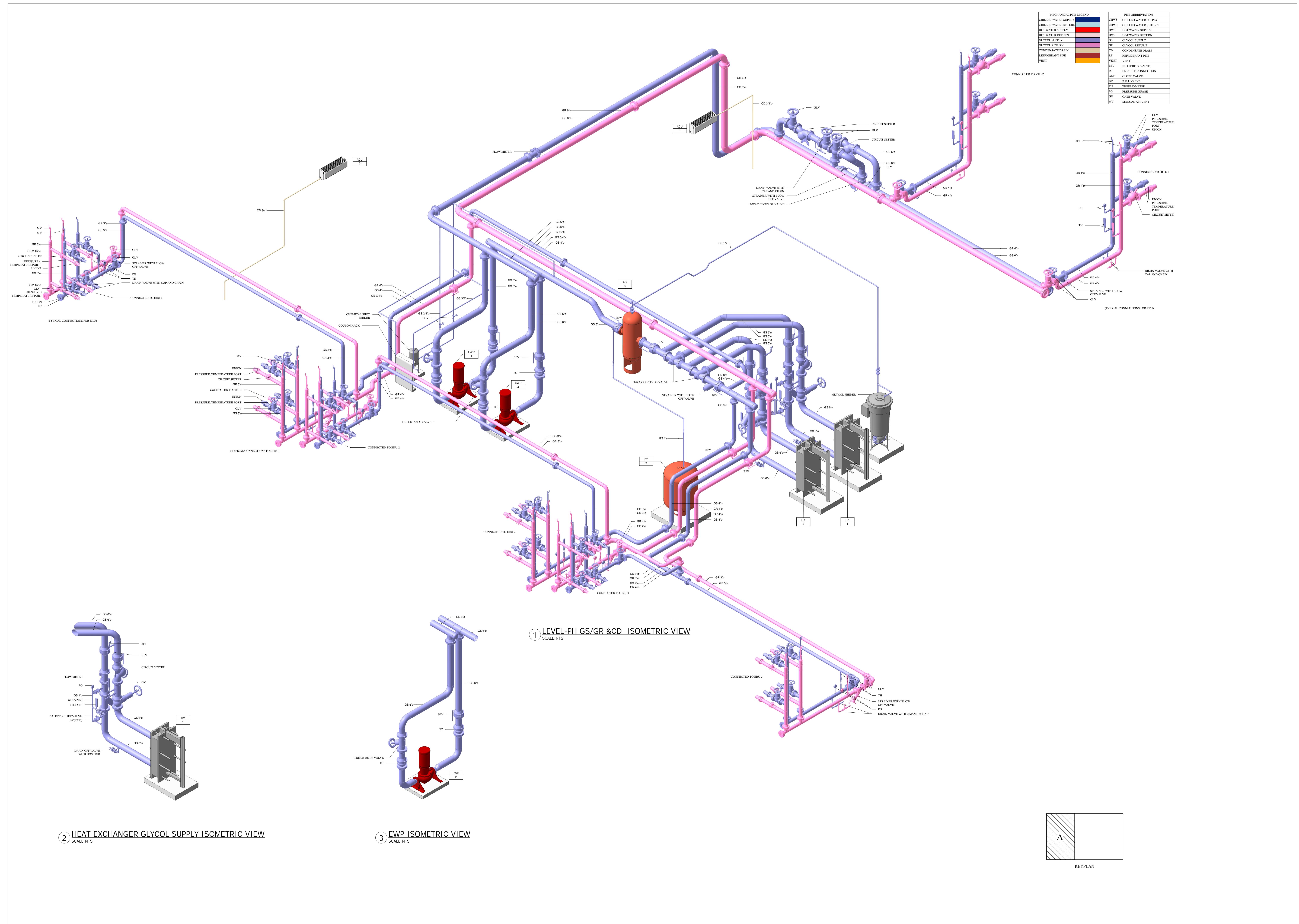
Revision Number	Revision Description	Date
R0	For Design Review	10.18.2023

SHEET NAME:
**LEVEL 05 MECHANICAL PIPING
SOMETRIC - OVERALL**

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

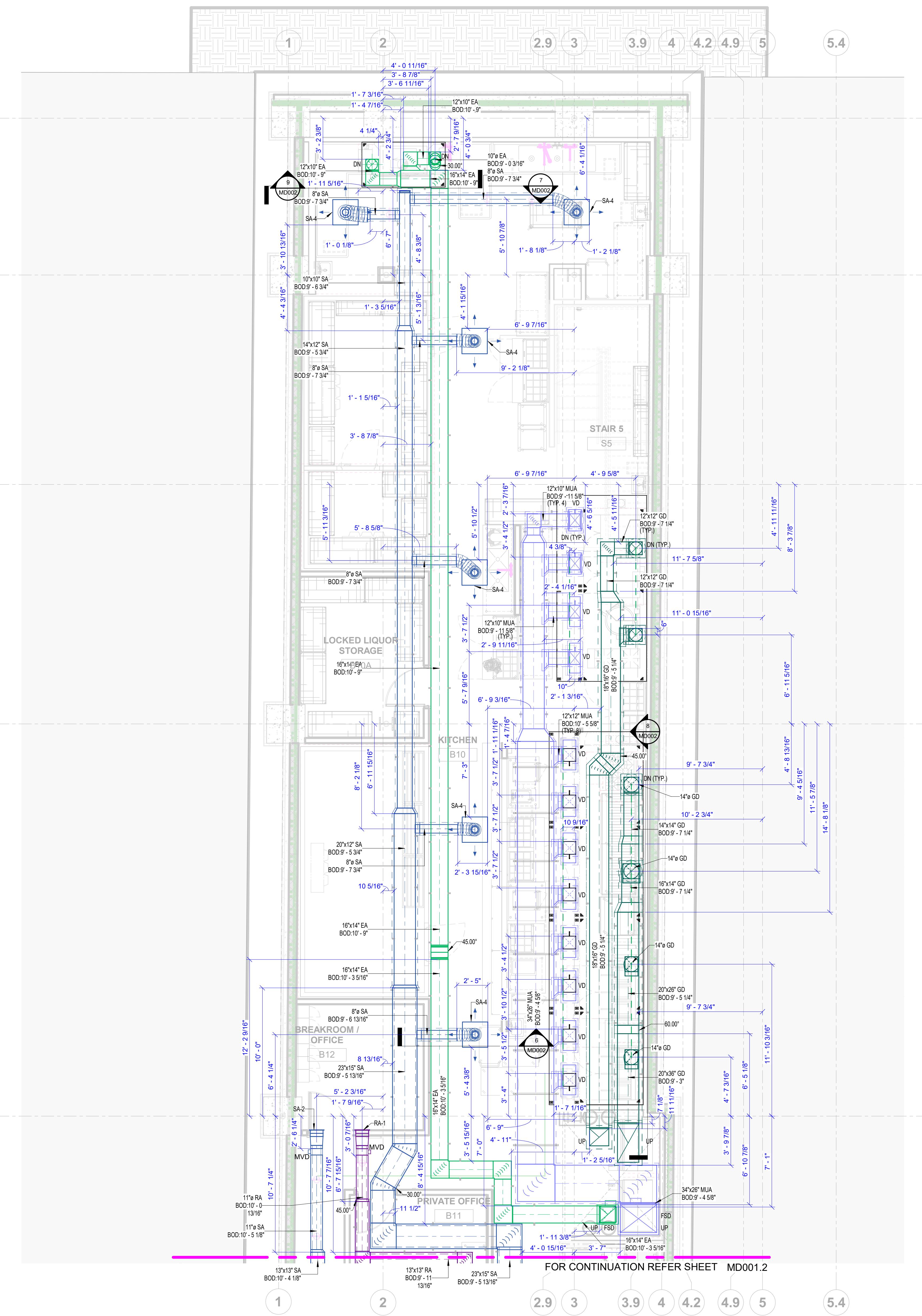
MP505







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① BASEMENT MECHANICAL DUCTING LAYOUT - AREA A
1/4" = 1'-0"

B00 DUCT SCHEDULE

Duct Type	System Type	Size	Length (Feet)
Rectangular Duct	M-Exhaust Duct	4"x10"	0.5
Rectangular Duct	M-Exhaust Duct	10"x4"	4.6
Round Duct	M-Exhaust Duct	10"ø	1.5
Rectangular Duct	M-Exhaust Duct	12"x10"	3.6
Rectangular Duct	M-Exhaust Duct	12"x12"	7.7
Rectangular Duct	M-Exhaust Duct	14"x10"	5.6
Rectangular Duct	M-Exhaust Duct	14"x14"	13.7
Rectangular Duct	M-Exhaust Duct	16"x14"	90.2
Rectangular Duct	M-Exhaust Duct	18"x8"	0.2
Rectangular Duct	M-Grease Duct	12"x12"	4.5
Rectangular Duct	M-Grease Duct	12"x14"	0.1
Round Duct	M-Grease Duct	12"ø	0.8
Rectangular Duct	M-Grease Duct	14"x14"	3.7
Round Duct	M-Grease Duct	14"ø	0.6
Rectangular Duct	M-Grease Duct	16"x14"	4.7
Rectangular Duct	M-Grease Duct	18"x16"	39.8
Rectangular Duct	M-Grease Duct	20"x26"	8.8
Rectangular Duct	M-Grease Duct	20"x36"	6.9
Rectangular Duct	M-Makeup Air Duct	12"x10"	8.7
Rectangular Duct	M-Makeup Air Duct	12"x12"	6.7
Rectangular Duct	M-Makeup Air Duct	20"x18"	14.5
Rectangular Duct	M-Makeup Air Duct	34"x26"	39.5
Rectangular Duct	M-Outside Air Duct	26"x14"	0.7
Rectangular Duct	M-Outside Air Duct	29"x17"	24.3
Rectangular Duct	M-Outside Air Duct	49"x14"	0.5
Round Duct	M-Return Air Duct	11"ø	3.7
Rectangular Duct	M-Return Air Duct	12"x4"	0.3
Rectangular Duct	M-Return Air Duct	13"x13"	18
Rectangular Duct	M-Return Air Duct	34"x8"	0.1
Rectangular Duct	M-Supply Air Duct	8"x4"	0.2
Round Duct	M-Supply Air Duct	8"ø	29.7
Rectangular Duct	M-Supply Air Duct	10"x10"	10.4
Round Duct	M-Supply Air Duct	11"ø	8.6
Rectangular Duct	M-Supply Air Duct	12"x4"	0.4
Rectangular Duct	M-Supply Air Duct	13"x13"	9.5
Rectangular Duct	M-Supply Air Duct	14"x6"	0.5
Rectangular Duct	M-Supply Air Duct	14"x12"	37.2
Rectangular Duct	M-Supply Air Duct	15"x15"	5.9
Rectangular Duct	M-Supply Air Duct	17"x11"	2
Rectangular Duct	M-Supply Air Duct	20"x12"	13.4
Rectangular Duct	M-Supply Air Duct	23"x15"	29.8
Rectangular Duct	M-Supply Air Duct	29"x17"	8
Rectangular Duct	M-Supply Air Duct	33"x9"	0.1
Rectangular Duct	M-Supply Air Duct	54"x18"	0.6
Grand total: 146			
470.8			

B00 AIR TERMINAL SCHEDULE

Diffuser Tag	Size	Count
EA-1	08"x08"	1
EA-2	10"x04"	1
EA-1	10"x04"	1
EA-3	14"x10"	1
EA-4	18"x08"	1
RA-1	12"x04"	2
SA-1	08"x04"	1
SA-2	12"x04"	3
SA-3	14"x06"	3
SA-4	24"x24"	8
TA-1	28"x10"	2
Grand total: 24		

B00 MECHANICAL EQUIPMENT SCHEDULE

Type	Count
AHU-0-12	1
AHU-0-K	1

ABBREVIATIONS

EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
MVD	MOTORIZED VOLUME DAMPER

COLOUR LEGEND

EXHAUST AIR
SUPPLY AIR
OUTSIDE AIR
GREASE AIR
MAKE UP AIR

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MECHANICAL SHOP DRAWINGS

KEY PLAN

PROJECT NORTH

PRINTED DATE: 11/23/2023 3:43:22 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.15.2023
R1	For Installation	10.25.2023
R2	For Installation	11.06.2023
R3	For Installation	11.23.2023

SHEET NAME:
BASEMENT MECHANICAL DUCTING LAYOUT - AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD001.1

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
3. ALL DIMENSIONS ARE FROM DUCT.

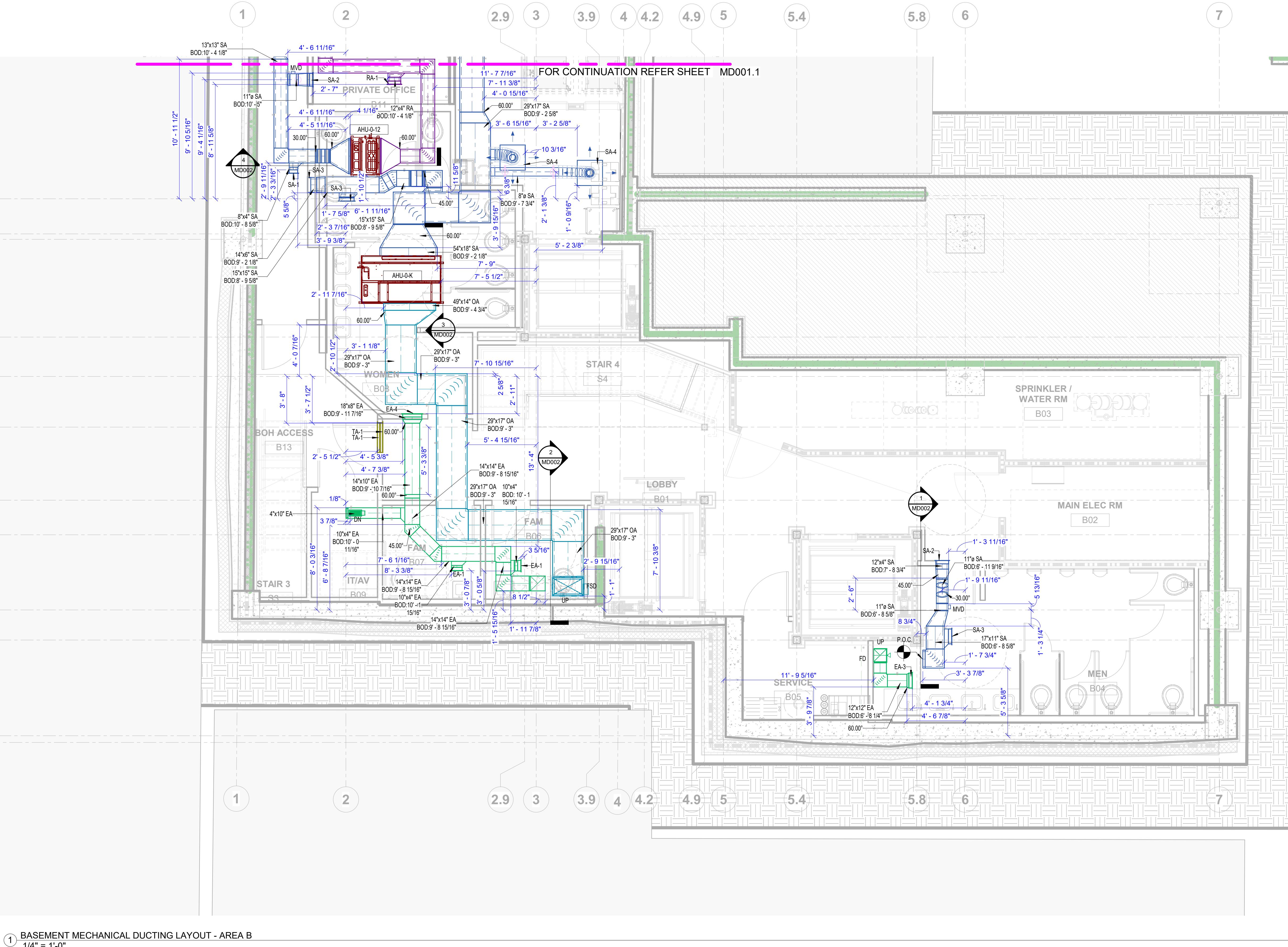


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MECHANICAL SHOP DRAWINGS



B00 DUCT SCHEDULE

Duct Type	System Type	Size	Length (Feet)
Rectangular Duct	M-Exhaust Duct	4"x10"	0.5
Rectangular Duct	M-Exhaust Duct	10"x4"	4.6
Round Duct	M-Exhaust Duct	10"ø	1.5
Rectangular Duct	M-Exhaust Duct	12"x10"	3.6
Rectangular Duct	M-Exhaust Duct	12"x12"	7.7
Rectangular Duct	M-Exhaust Duct	14"x10"	5.6
Rectangular Duct	M-Exhaust Duct	14"x14"	13.7
Rectangular Duct	M-Exhaust Duct	16"x14"	90.2
Rectangular Duct	M-Exhaust Duct	18"x8"	0.2

Rectangular Duct	M-Grease Duct	12"x12"	4.5
Rectangular Duct	M-Grease Duct	12"x14"	0.1
Round Duct	M-Grease Duct	12"ø	0.8
Rectangular Duct	M-Grease Duct	14"x14"	3.7
Round Duct	M-Grease Duct	14"ø	0.6
Rectangular Duct	M-Grease Duct	16"x14"	4.7
Rectangular Duct	M-Grease Duct	18"x16"	39.8
Rectangular Duct	M-Grease Duct	20"x26"	8.8
Rectangular Duct	M-Grease Duct	20"x36"	6.9

Rectangular Duct	M-Makeup Air Duct	12"x10"	8.7
Rectangular Duct	M-Makeup Air Duct	12"x12"	6.7
Rectangular Duct	M-Makeup Air Duct	20"x18"	14.5
Rectangular Duct	M-Makeup Air Duct	34"x26"	39.5

Rectangular Duct	M-Outside Air Duct	26"x14"	0.7
Rectangular Duct	M-Outside Air Duct	29"x17"	24.3
Rectangular Duct	M-Outside Air Duct	49"x14"	0.5

Round Duct	M-Return Air Duct	11"ø	3.7
Rectangular Duct	M-Return Air Duct	12"x4"	0.3
Rectangular Duct	M-Return Air Duct	13"x13"	18
Rectangular Duct	M-Return Air Duct	34"x8"	0.1

Rectangular Duct	M-Supply Air Duct	8"x4"	0.2
Round Duct	M-Supply Air Duct	8"ø	29.7
Rectangular Duct	M-Supply Air Duct	10"x10"	10.4
Round Duct	M-Supply Air Duct	11"ø	8.6
Rectangular Duct	M-Supply Air Duct	12"x4"	0.4
Rectangular Duct	M-Supply Air Duct	13"x13"	9.5
Rectangular Duct	M-Supply Air Duct	14"x6"	0.5
Rectangular Duct	M-Supply Air Duct	14"x12"	37.2
Rectangular Duct	M-Supply Air Duct	15"x15"	5.9
Rectangular Duct	M-Supply Air Duct	17"x11"	2
Rectangular Duct	M-Supply Air Duct	20"x12"	13.4
Rectangular Duct	M-Supply Air Duct	23"x15"	29.8
Rectangular Duct	M-Supply Air Duct	33"x9"	0.1
Rectangular Duct	M-Supply Air Duct	54"x18"	0.6

Grand total: 146 470.8

B00 AIR TERMINAL SCHEDULE

Diffuser Tag	Size	Count
EA-1	08"x08"	1
EA-2	10"x04"	1
EA-3	14"x10"	1
EA-4	18"x08"	1
RA-1	12"x04"	2
SA-1	08"x04"	1
SA-2	12"x04"	3
SA-3	14"x06"	3
SA-4	24"x24"	8
TA-1	28"x10"	2

Grand total: 24

B00 MECHANICAL EQUIPMENT SCHEDULE

Type	Count
AHU-0-12	1
AHU-0-K	1

GENERAL NOTES

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
- ALL DIMENSIONS ARE FROM DUCT.

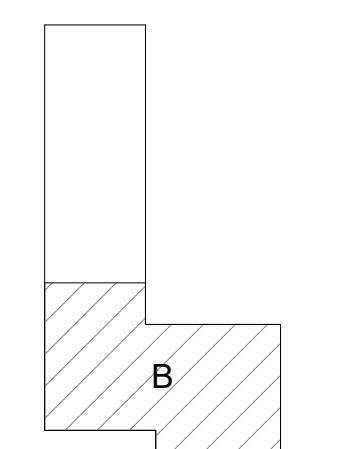
PRINTED DATE: 11/23/2023 3:43:23 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.15.2023
R1	For Installation	10.25.2023
R2	For Installation	11.06.2023
R3	For Installation	11.23.2023

PROJECT NORTH



Sheet Name:
BASEMENT MECHANICAL DUCTING LAYOUT - AREA B

Sheet Size: ARCH E1 (42 X 30 INCHES)

Sheet Number:

MD001.2

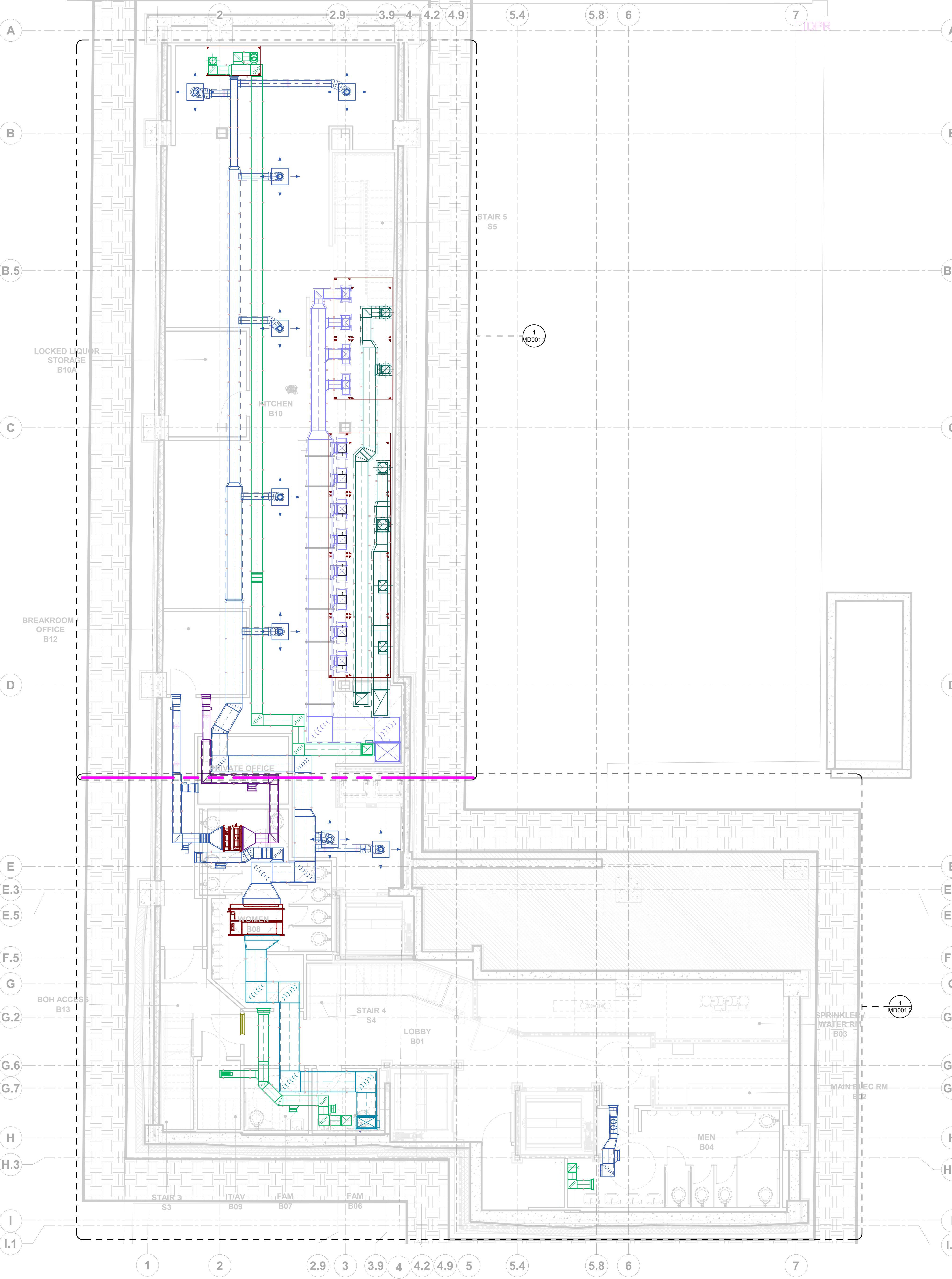


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MECHANICAL SHOP DRAWINGS



B00 AIR TERMINAL SCHEDULE		
Diffuser Tag	Size	Count
EA-1	08"x08"	1
EA-2	10"x04"	1
EA-1	10"x04"	1
EA-3	14"x10"	1
EA-4	18"x08"	1
RA-1	12"x04"	2
SA-1	08"x04"	1
SA-2	12"x04"	3
SA-3	14"x06"	3
SA-4	24"x24"	8
TA-1	28"x10"	2

B00 DUCT SCHEDULE			
Duct Type	System Type	Size	Length (Feet)
Rectangular Duct	M-Exhaust Duct	4"x10"	0.5
Rectangular Duct	M-Exhaust Duct	10"x4"	4.6
Round Duct	M-Exhaust Duct	10"ø	1.5
Rectangular Duct	M-Exhaust Duct	12"x10"	3.6
Rectangular Duct	M-Exhaust Duct	12"x12"	7.7
Rectangular Duct	M-Exhaust Duct	14"x10"	5.6
Rectangular Duct	M-Exhaust Duct	14"x14"	13.7
Rectangular Duct	M-Exhaust Duct	16"x14"	90.2
Rectangular Duct	M-Exhaust Duct	18"x8"	0.2

Rectangular Duct	M-Grease Duct	12"x12"	4.5
Rectangular Duct	M-Grease Duct	12"x14"	0.1
Round Duct	M-Grease Duct	12"ø	0.8
Rectangular Duct	M-Grease Duct	14"x14"	3.7
Round Duct	M-Grease Duct	14"ø	0.6
Rectangular Duct	M-Grease Duct	16"x14"	4.7
Rectangular Duct	M-Grease Duct	18"x16"	39.8
Rectangular Duct	M-Grease Duct	20"x26"	8.8
Rectangular Duct	M-Grease Duct	20"x36"	6.9

Rectangular Duct	M-Makeup Air Duct	12"x10"	8.7
Rectangular Duct	M-Makeup Air Duct	12"x12"	6.7
Rectangular Duct	M-Makeup Air Duct	20"x18"	14.5
Rectangular Duct	M-Makeup Air Duct	34"x26"	39.5

Rectangular Duct	M-Outside Air Duct	26"x14"	0.7
Rectangular Duct	M-Outside Air Duct	29"x17"	24.3
Rectangular Duct	M-Outside Air Duct	49"x14"	0.5

Round Duct	M-Return Air Duct	11"ø	3.7
Rectangular Duct	M-Return Air Duct	12"x4"	0.3
Rectangular Duct	M-Return Air Duct	13"x13"	18
Rectangular Duct	M-Return Air Duct	34"x8"	0.1

Rectangular Duct	M-Supply Air Duct	8"x4"	0.2
Round Duct	M-Supply Air Duct	8"ø	29.7
Rectangular Duct	M-Supply Air Duct	10"x10"	10.4
Round Duct	M-Supply Air Duct	11"ø	8.6
Rectangular Duct	M-Supply Air Duct	12"x4"	0.4
Rectangular Duct	M-Supply Air Duct	13"x13"	9.5
Rectangular Duct	M-Supply Air Duct	14"x6"	0.5
Rectangular Duct	M-Supply Air Duct	14"x12"	37.2
Rectangular Duct	M-Supply Air Duct	15"x15"	5.9
Rectangular Duct	M-Supply Air Duct	17"x11"	2
Rectangular Duct	M-Supply Air Duct	20"x12"	13.4
Rectangular Duct	M-Supply Air Duct	23"x15"	29.8
Rectangular Duct	M-Supply Air Duct	29"x17"	8
Rectangular Duct	M-Supply Air Duct	33"x9"	0.1
Rectangular Duct	M-Supply Air Duct	54"x18"	0.6

Grand total: 146

470.8

B00 MECHANICAL EQUIPMENT SCHEDULE		
Type	Count	
AHU-0-12	1	
AHU-0-K	1	

COLOUR LEGEND	
[Green Box]	EXHAUST AIR
[Blue Box]	SUPPLY AIR
[Teal Box]	OUTSIDE AIR
[Dark Green Box]	GREASE DUCT
[Purple Box]	MAKE UP AIR

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
MVD	MOTORIZED VOLUME DAMPER

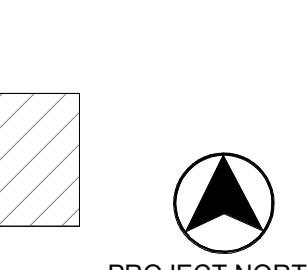
SHEET NAME:
BASEMENT MECHANICAL DUCTING LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD001

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
3. ALL DIMENSIONS ARE FROM DUCT.



PROJECT NORTH

PRINTED DATE: 11/23/2023 3:43:22 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.15.2023
R1	For Installation	10.25.2023
R2	For Installation	11.06.2023
R3	For Installation	11.23.2023

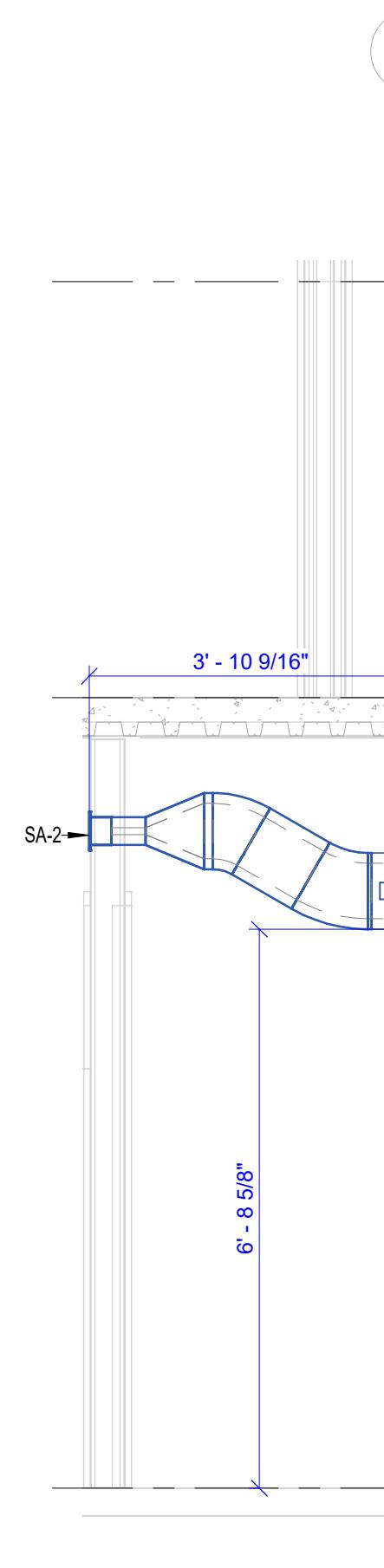


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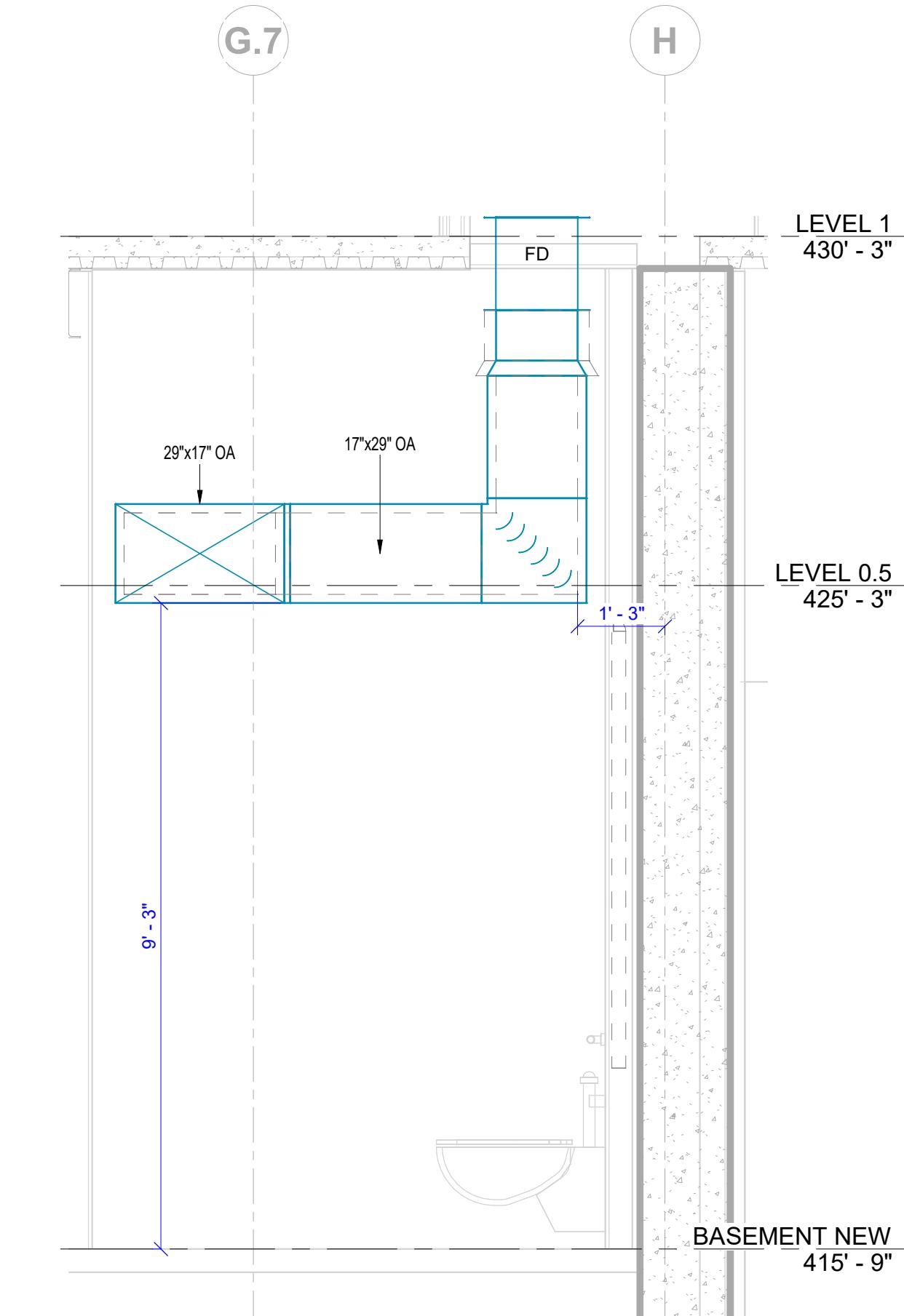
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MECHANICAL SHOP DRAWINGS



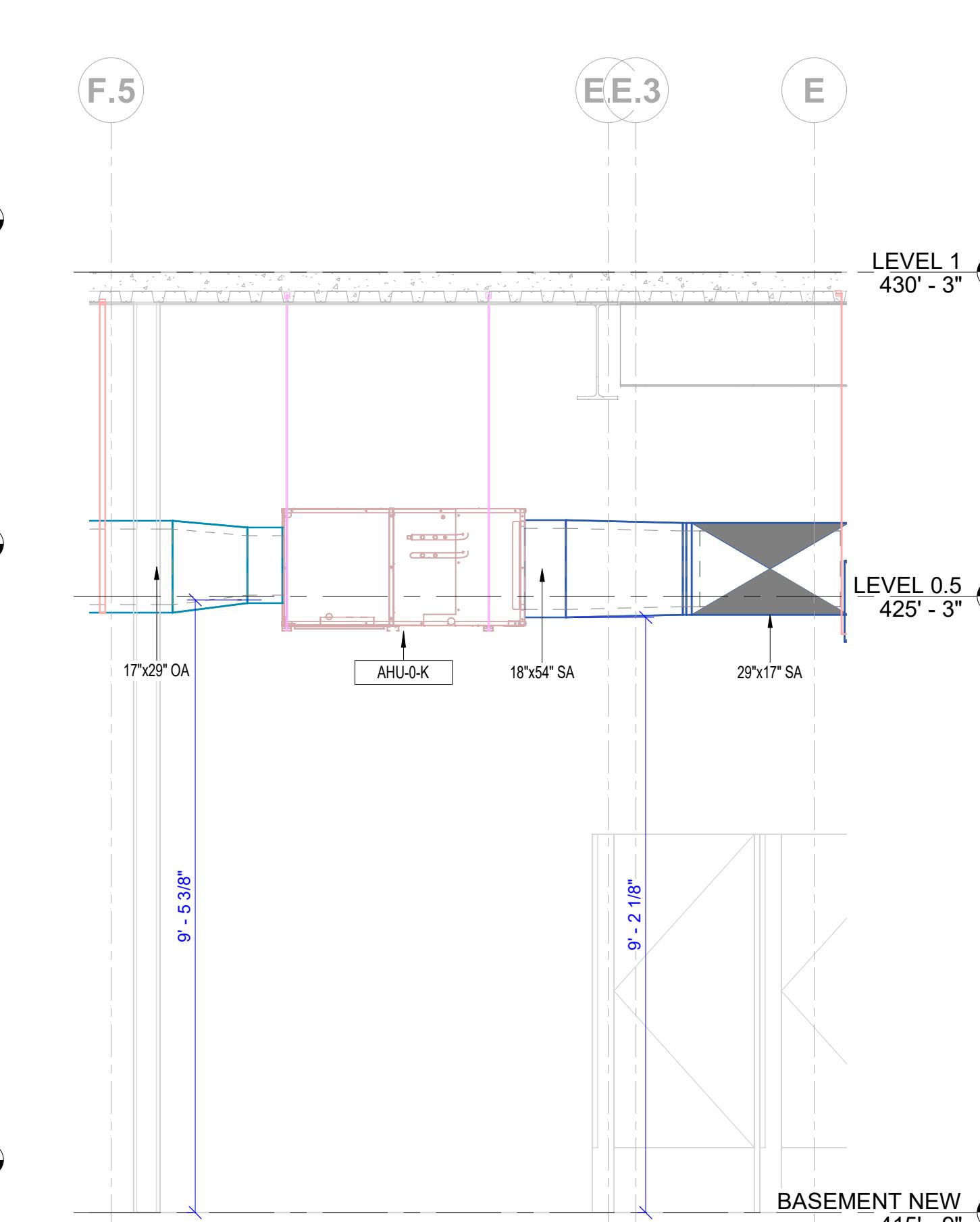
① B00-MD-SECTION 1

1/2" = 1'-0"



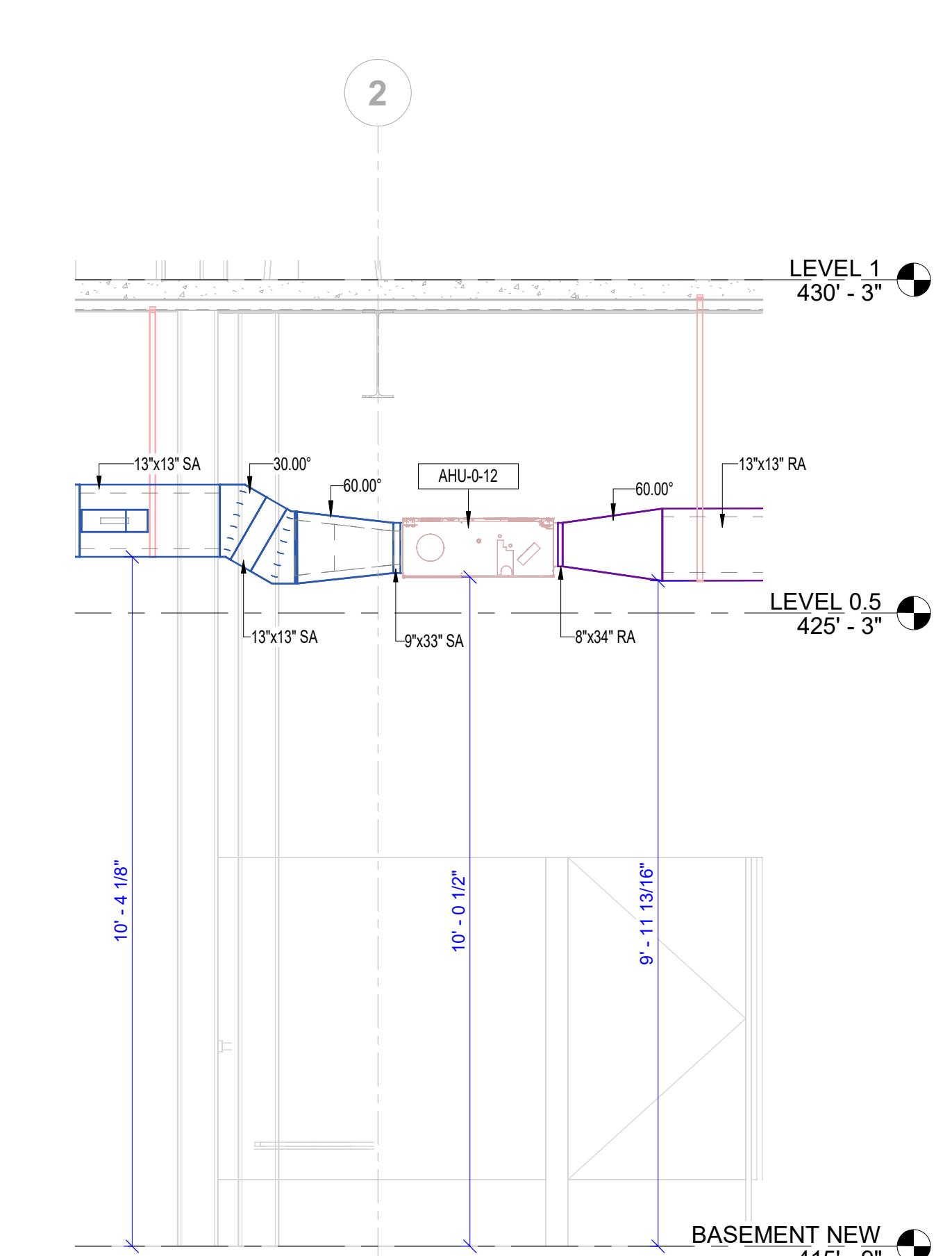
② B00-MD-SECTION 2

1/2" = 1'-0"



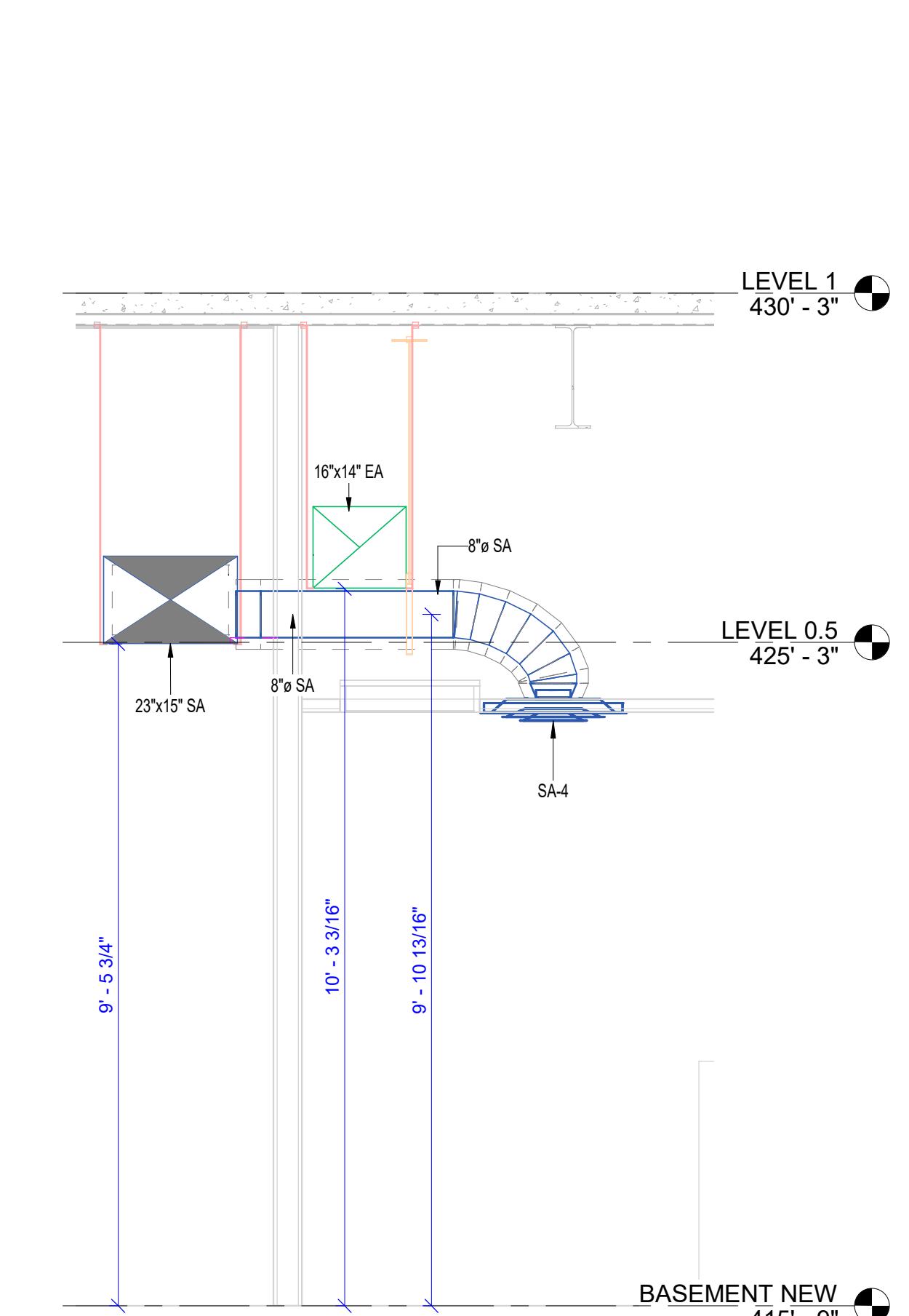
③ B00-MD-SECTION 3

1/2" = 1'-0"



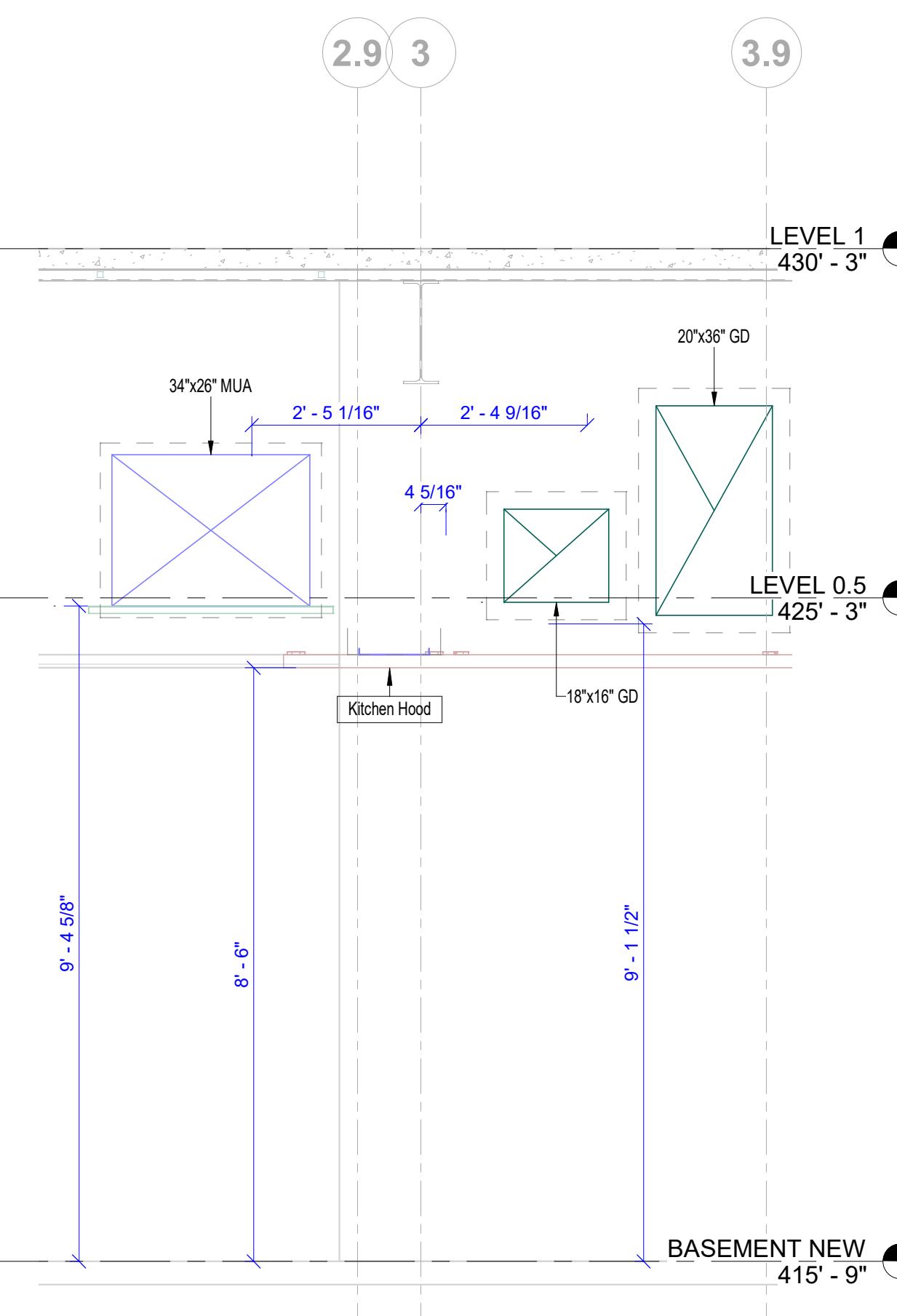
④ B00-MD-SECTION 4

1/2" = 1'-0"



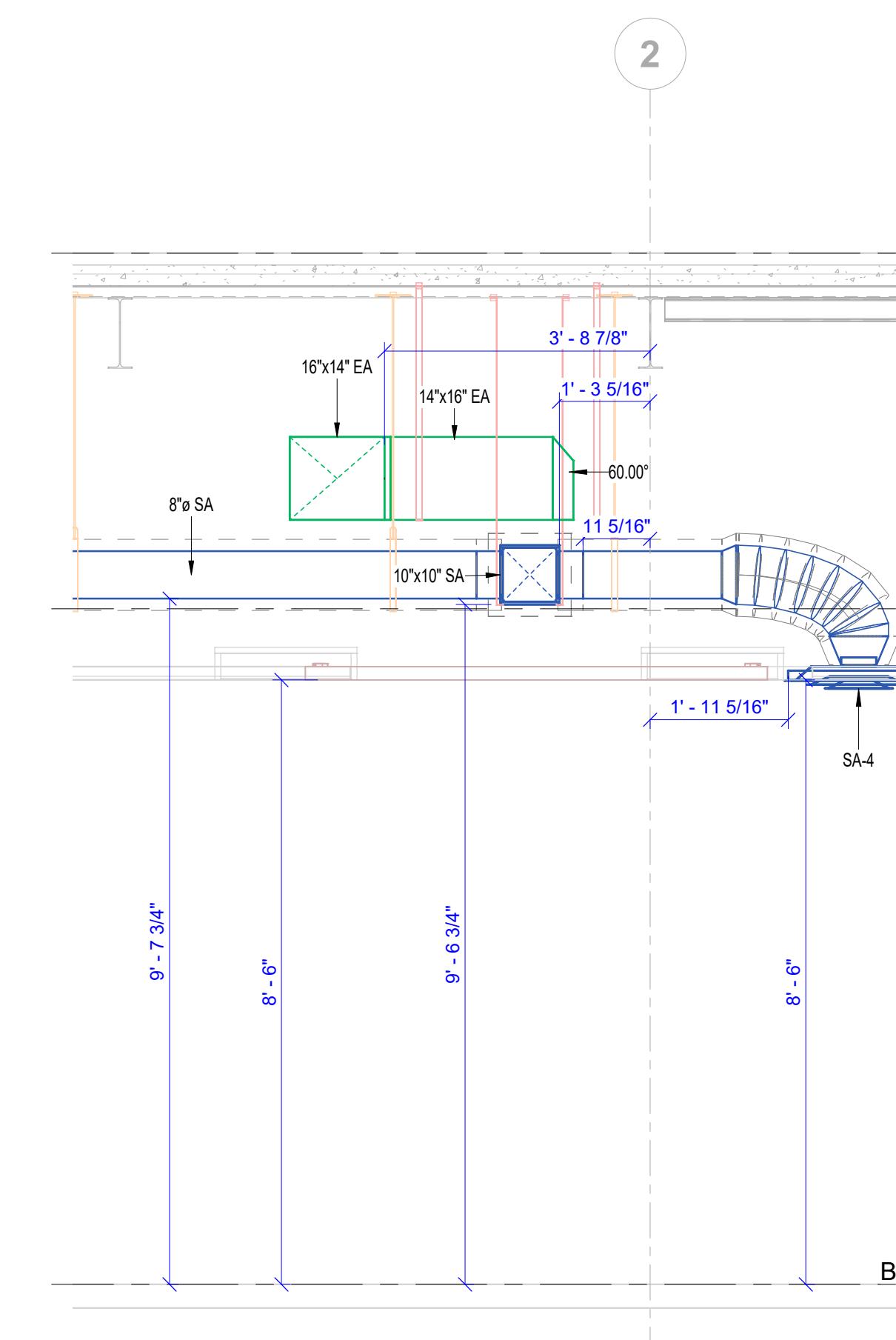
⑥ B00-MD-SECTION 6

1/2" = 1'-0"



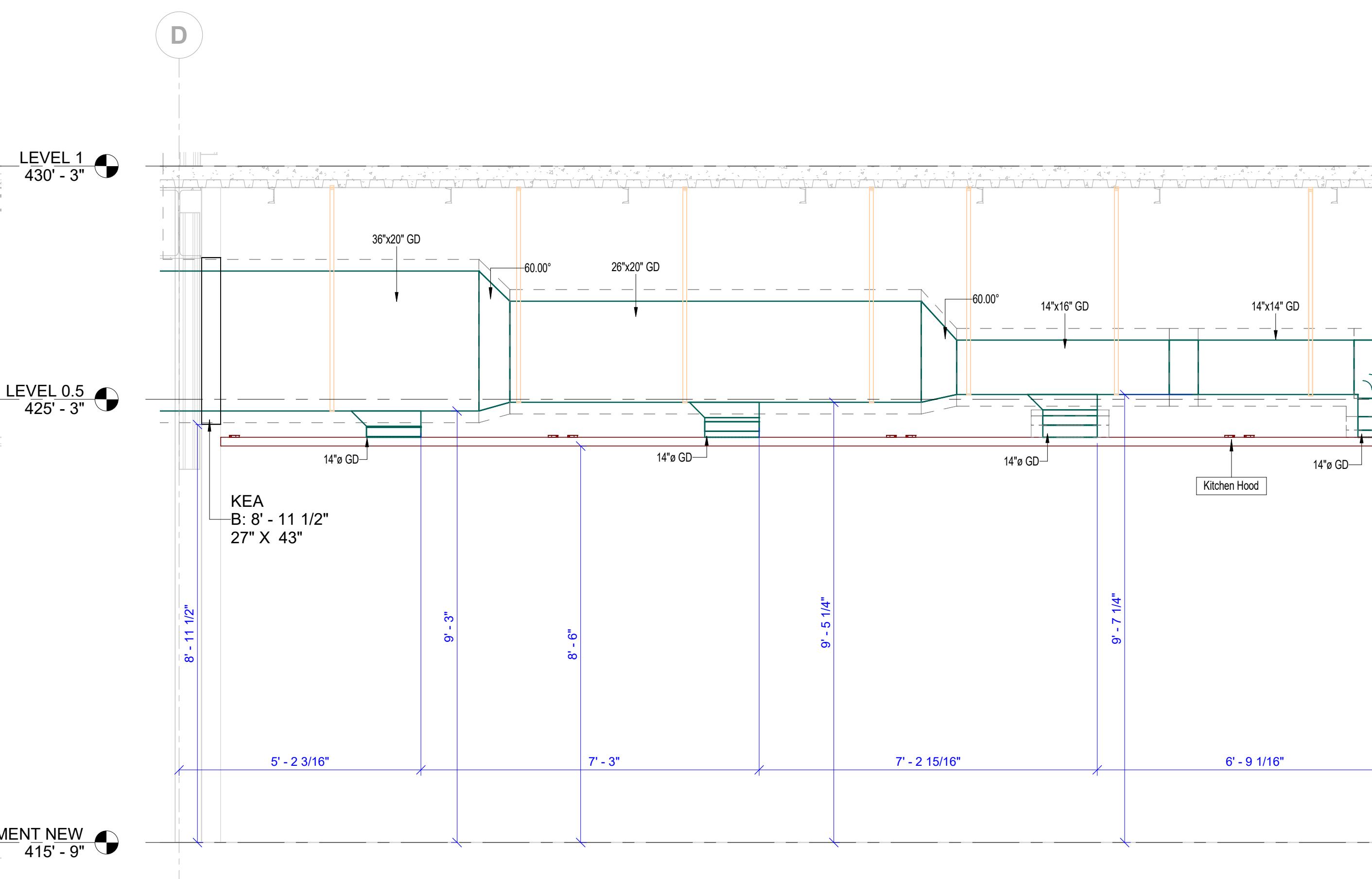
⑤ B00-MD-SECTION 5

1/2" = 1'-0"



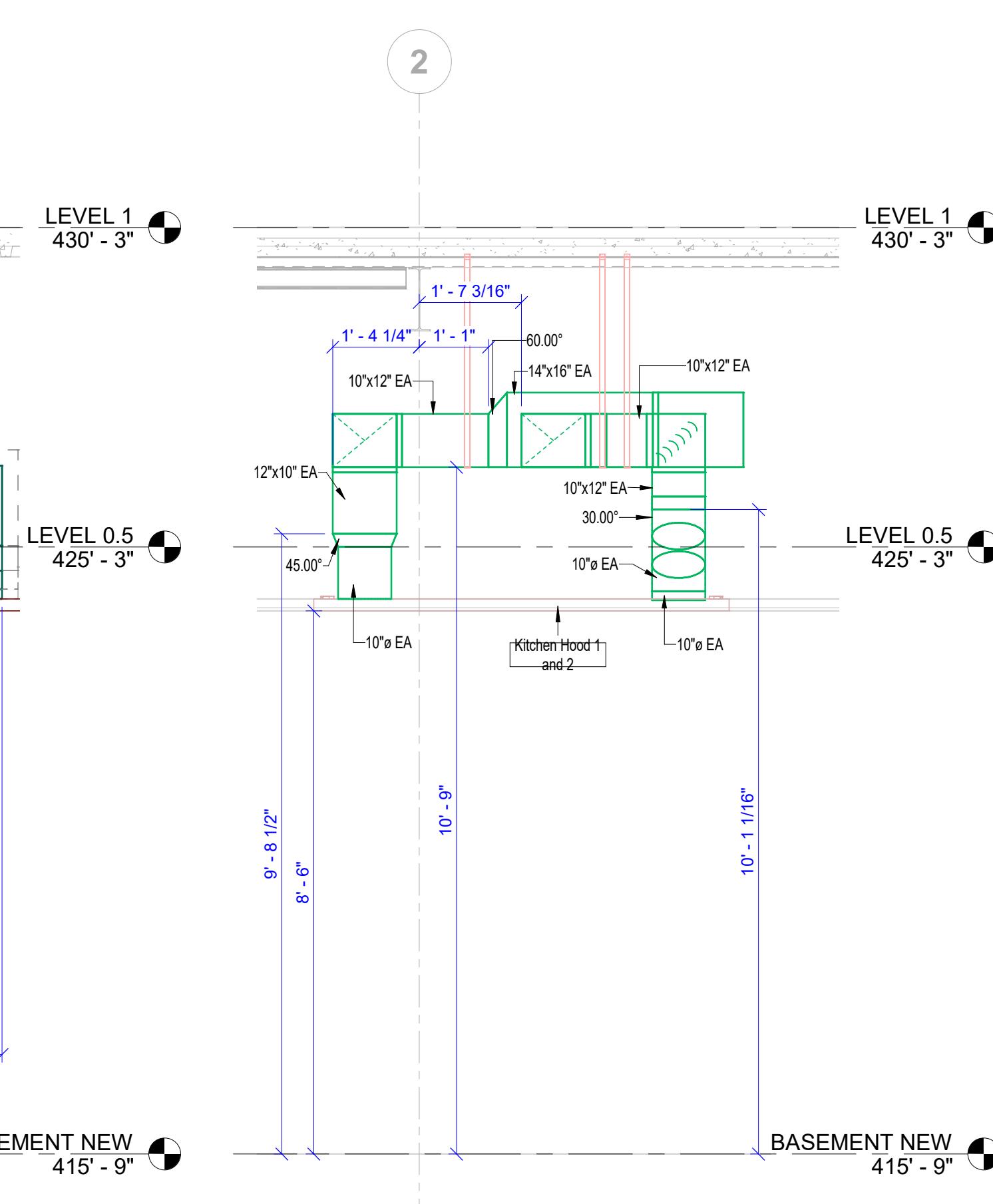
⑦ B00-MD-SECTION 7

1/2" = 1'-0"



⑧ B00-MD-SECTION 8

1/2" = 1'-0"



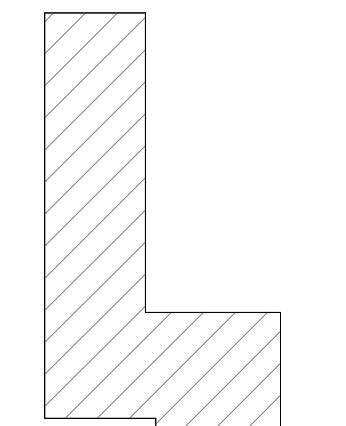
⑨ B00-MD-SECTION 9

1/2" = 1'-0"

COLOUR LEGEND		
EXHAUST AIR		
SUPPLY AIR		
OUTSIDE AIR		
GREASE AIR		
MAKE UP AIR		

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/23/2023 3:43:23 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	09.15.2023
R1	For Installation	10.25.2023
R2	For Installation	11.06.2023
R3	For Installation	11.23.2023

HEET NAME:
BASEMENT MECHANICAL DUCTING
SECTION DETAILS

HEET SIZE: ARCH E1 (42 X 30 INCHES)

HEET NUMBER:

MD002

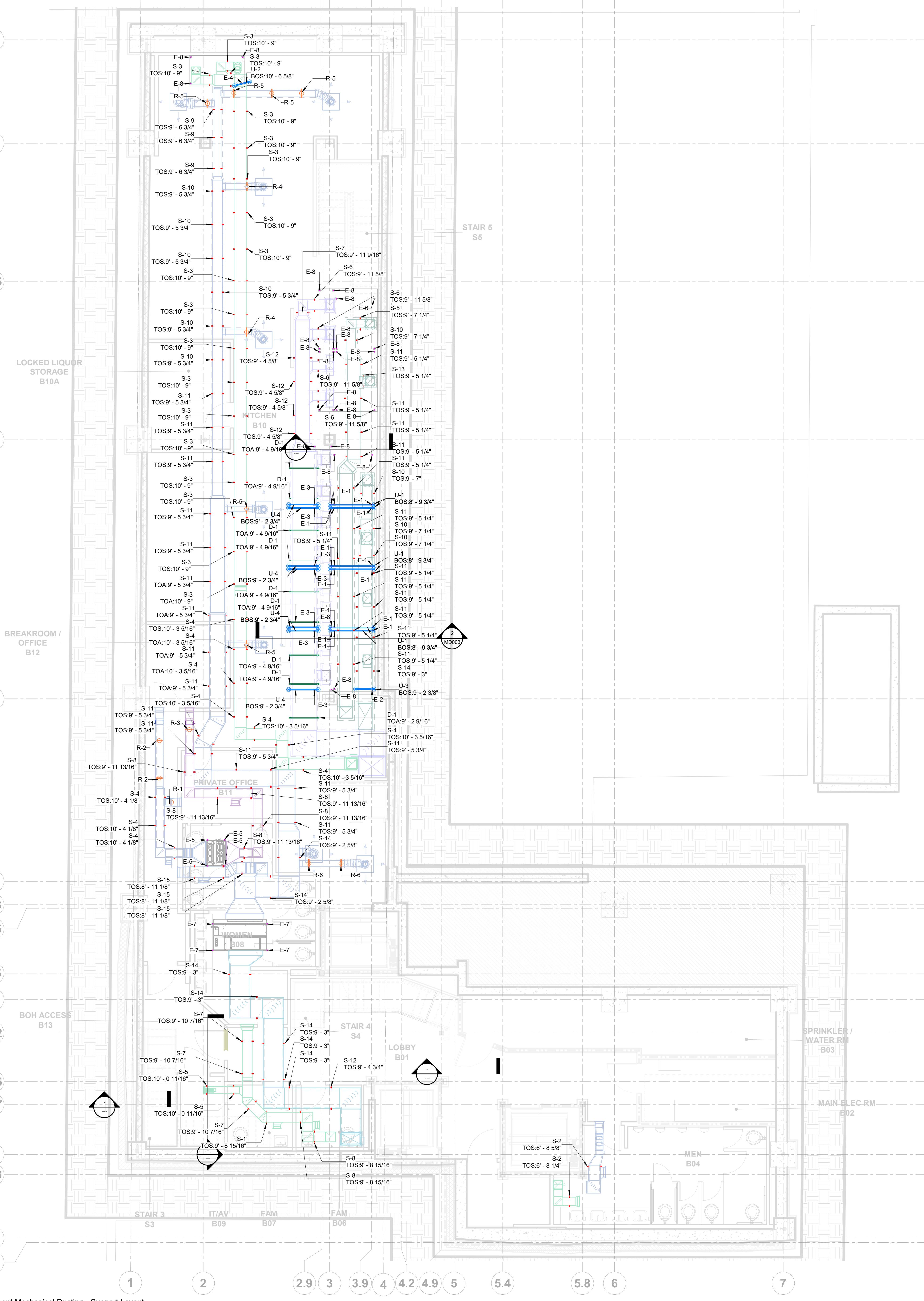


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MECHANICAL SHOP DRAWINGS

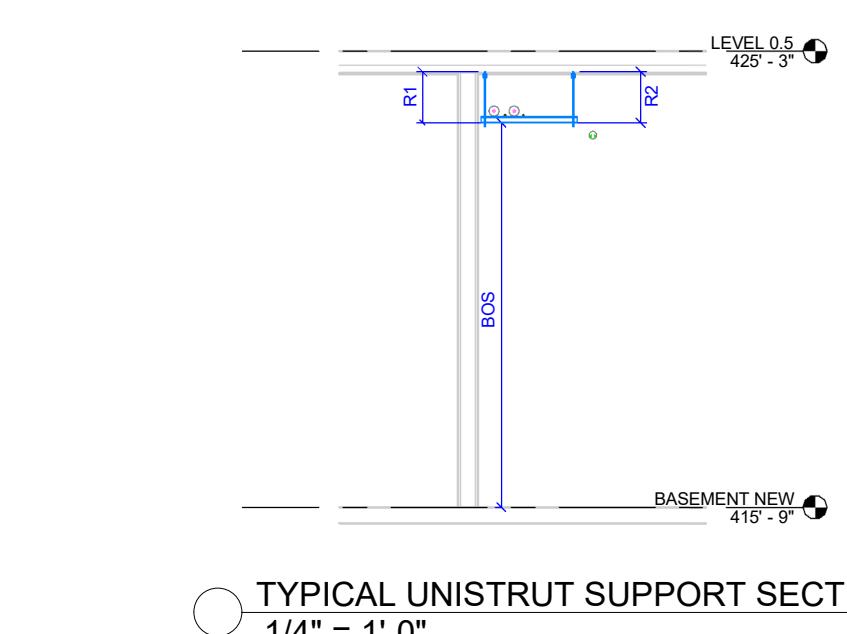


B00 RECTANGULAR DUCT SUPPORTS SCHEDULE				
Support ID	Type	Strut Length	R1=R2	Count
D-1	Rectangular Duct Hanger	3' - 6"	5' - 3"	9
Grand total: 9				
B00 STRAPS SUPPORTS SCHEDULE				
Support ID	Type	Strap Length 1	Strap Length 2	Count
S-1	Half Strap Hanger	2' - 3"	2' - 3"	1
S-2	Half Strap Hanger	2' - 4"	2' - 4"	2
S-3	Half Strap Hanger	3' - 4"	3' - 4"	18
S-4	Half Strap Hanger	3' - 9"	3' - 9"	10
S-5	Half Strap Hanger	4' - 0"	4' - 0"	3
S-6	Half Strap Hanger	4' - 1"	4' - 1"	4
S-7	Half Strap Hanger	4' - 2"	4' - 2"	4
S-8	Half Strap Hanger	4' - 3"	4' - 3"	7
S-9	Half Strap Hanger	4' - 4"	4' - 4"	3
S-10	Half Strap Hanger	4' - 5"	4' - 5"	10
S-11	Half Strap Hanger	4' - 7"	4' - 7"	28
S-12	Half Strap Hanger	4' - 8"	4' - 8"	5
S-13	Half Strap Hanger	4' - 9"	4' - 9"	1
S-14	Half Strap Hanger	4' - 10"	4' - 10"	8
S-15	Half Strap Hanger	5' - 3"	5' - 3"	3
Grand total: 107				

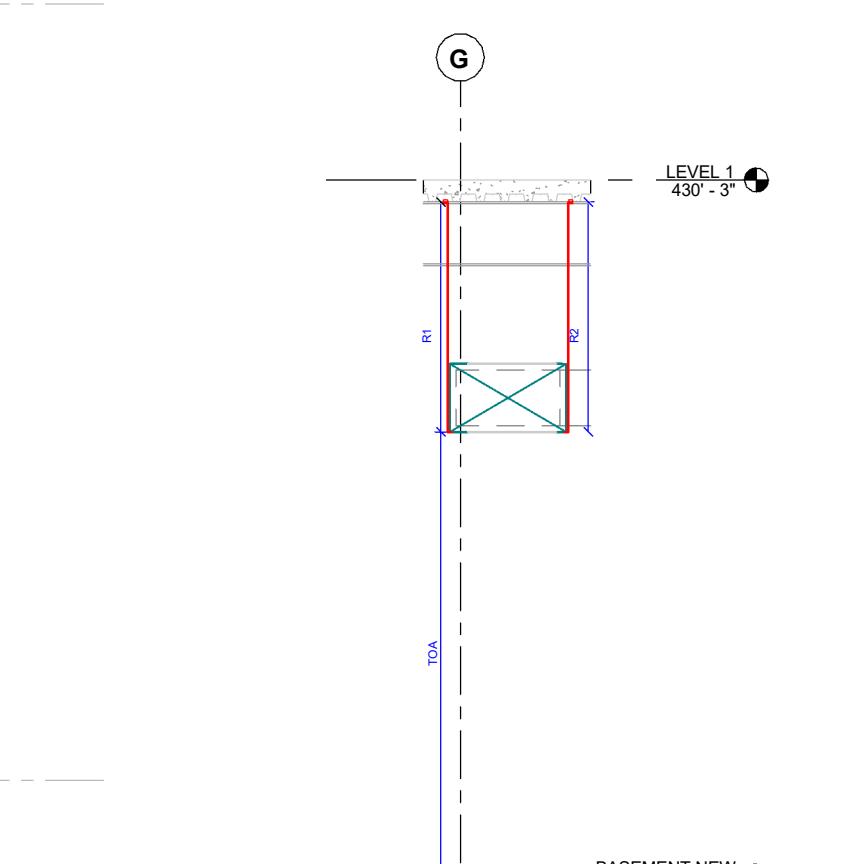
B00 ROUND DUCT SUPPORTS SCHEDULE				
Support ID	Type	Hanger Dia	Rod Dia	Rod length
R-1	Round Duct Hanger	6"	1/4"	3' - 7"
R-2	Round Duct Hanger	6"	1/4"	3' - 8"
R-3	Round Duct Hanger	6"	1/4"	3' - 9"
R-4	Round Duct Hanger	6"	1/4"	4' - 5"
R-5	Round Duct Hanger	6"	1/4"	4' - 6"
R-6	Round Duct Hanger	6"	1/4"	4' - 7"
Grand total: 14				

B00 MD EQUIPMENT SUPPORTS SCHEDULE				
Support ID	Type	Rod Size	Rod length	Count
E-1	Threaded Rod_VAV	1/4"	8"	17
E-2	Threaded Rod_VAV	1/4"	1' - 0"	1
E-3	Threaded Rod_VAV	1/4"	1' - 1"	6
E-4	Threaded Rod_VAV	1/4"	1' - 1"	1
E-5	Threaded Rod_VAV	1/4"	2' - 5"	1
E-6	Threaded Rod_VAV	1/4"	3' - 9"	4
E-7	Threaded Rod_VAV	1/4"	5' - 8"	4
E-8	Threaded Rod_VAV	1/4"	5' - 9"	25
Grand total: 60				

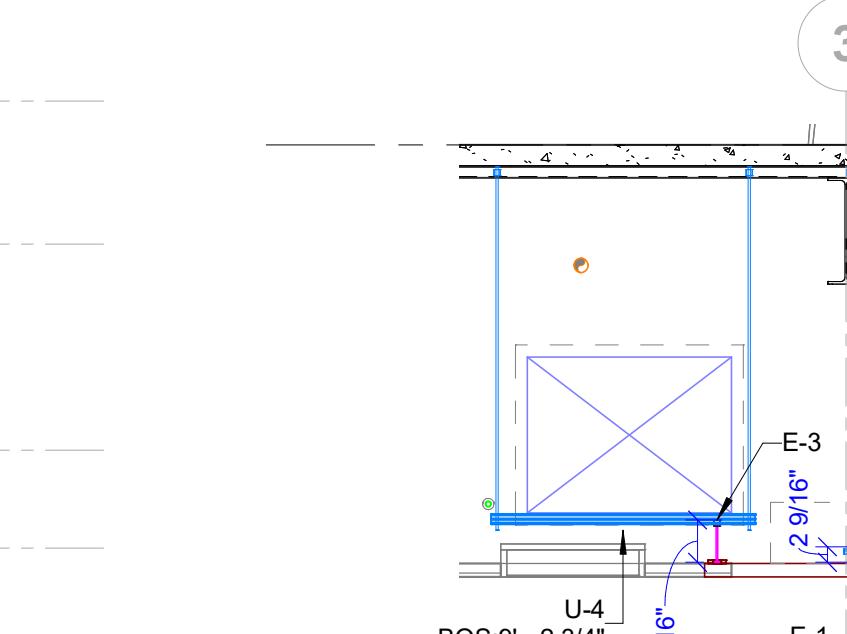
B00 MD UNISTRUT SUPPORTS SCHEDULE				
Support ID	Type	Strut Length	Rod Length 1	Rod Length 2
U-1	Strut Types : P3300 - Single 7/16"	5' - 4"	6' - 0"	6' - 0"
U-2	Strut Types : P3301 - Back to Back 7/8"	2' - 0"	4' - 0"	4' - 6"
U-3	Strut Types : P3301 - Back to Back 7/8"	2' - 4"	5' - 7"	5' - 7"
U-4	Strut Types : P3301 - Back to Back 7/8"	3' - 8"	5' - 7"	5' - 7"
Grand total: 15				



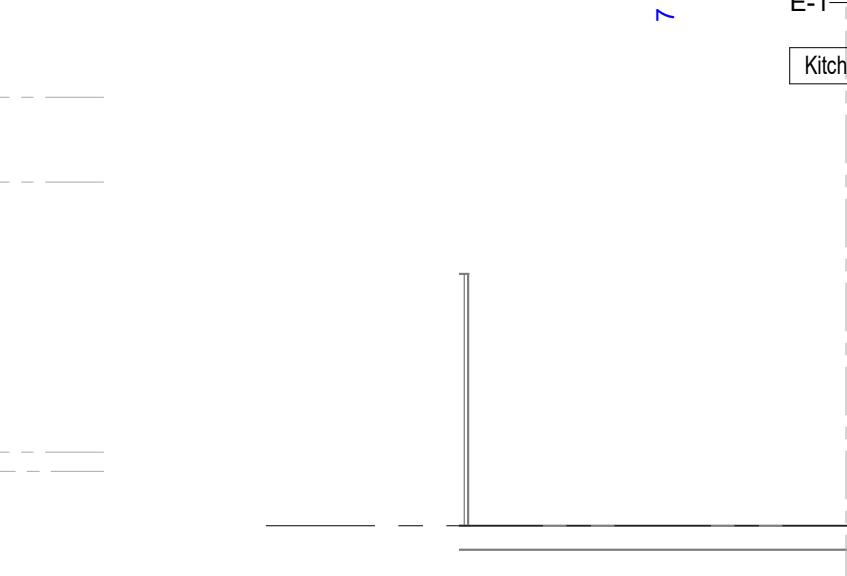
TYPICAL UNISTRUT SUPPORT SECTION
1/4" = 1'-0"



STRAP SUPPORT TYPICAL SECTION
1/4" = 1'-0"



ROUND DUCT SUPPORT TYPICAL SECTION
1/4" = 1'-0"



RECTANGULAR DUCT SUPPORT TYPICAL SECTION
1/4" = 1'-0"

SUPPORT LEGENDS	
■	STRAP SUPPORTS
■	ROUND DUCT SUPPORTS
■	UNISTRUT SUPPORTS
■	MECHANICAL EQUIPMENT SUPPORTS
■	RECTANGULAR DUCT SUPPORTS

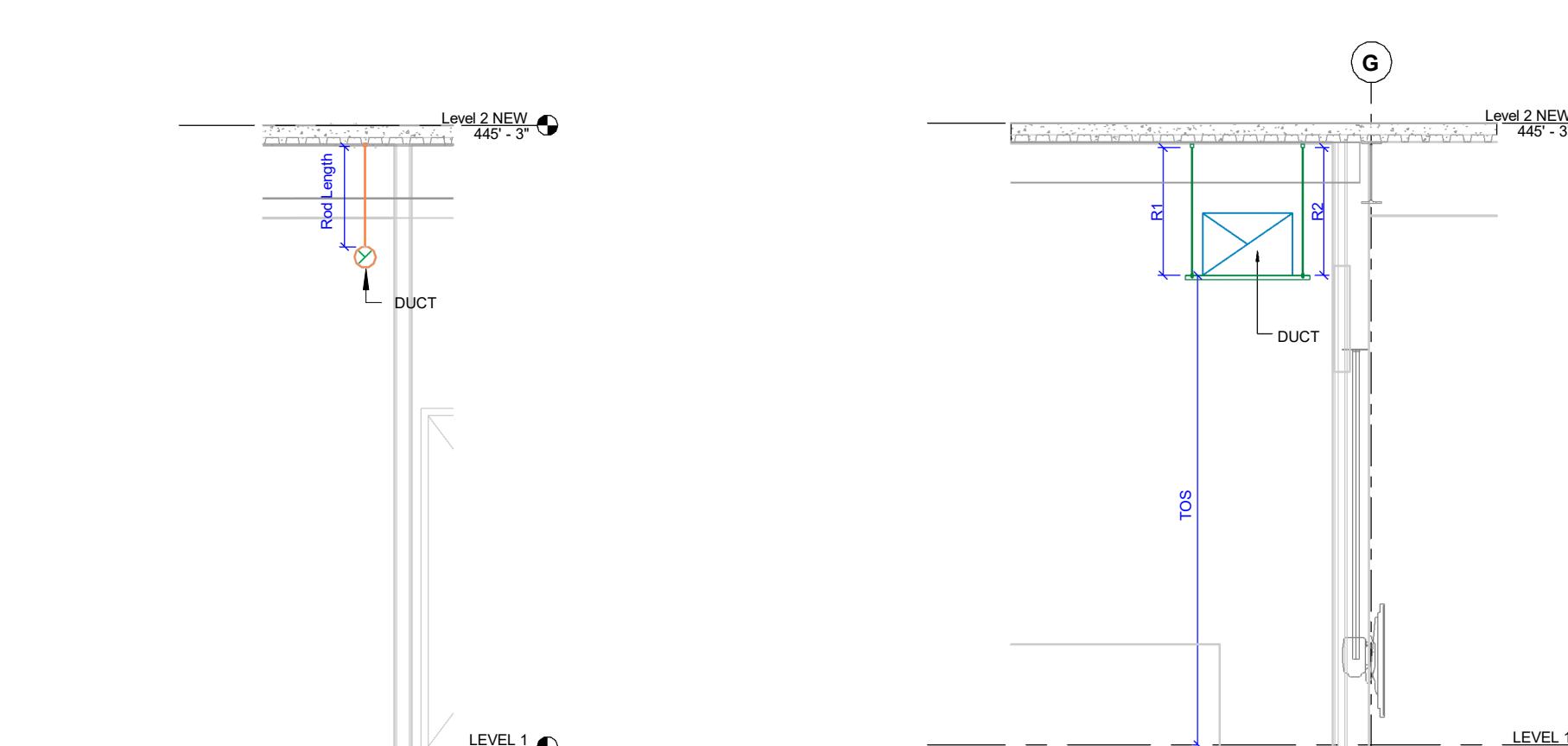
ABBREVIATIONS	
TOS	TOP OF SUPPORT
BOS	BOTTOM OF STRUT
TOA	TOP OF ANGLE

GENERAL NOTES :

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- HANGERS ARE DIMENSIONED TO THEIR CENTER OF ROD FROM THE NEAREST COLUMN GRID LINES.
- PLEASE REFER TO THE SUPPORT SCHEDULES ATTACHED IN RESPECTIVE LAYOUTS FOR ROD LENGTHS.
- ALL ROD LENGTHS ARE PROVIDED ALONG WITH EXTRA LENGTH OF 6".

BASEMENT NEW
415' - 9"

(2) B00-MD-SECTION 5
3/8" = 1'-0"



KEY PLAN

PROJECT NORTH

PRINTED DATE: 11/23/2023 3:43:25 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	08.30.2023
R1	For Installation	10.31.2023
R2	For Installation	11.23.2023

SHEET NAME:

BASEMENT MECHANICAL DUCTING - SUPPORT LAYOUT

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD003



11 Ave, Nashville, TN 37210

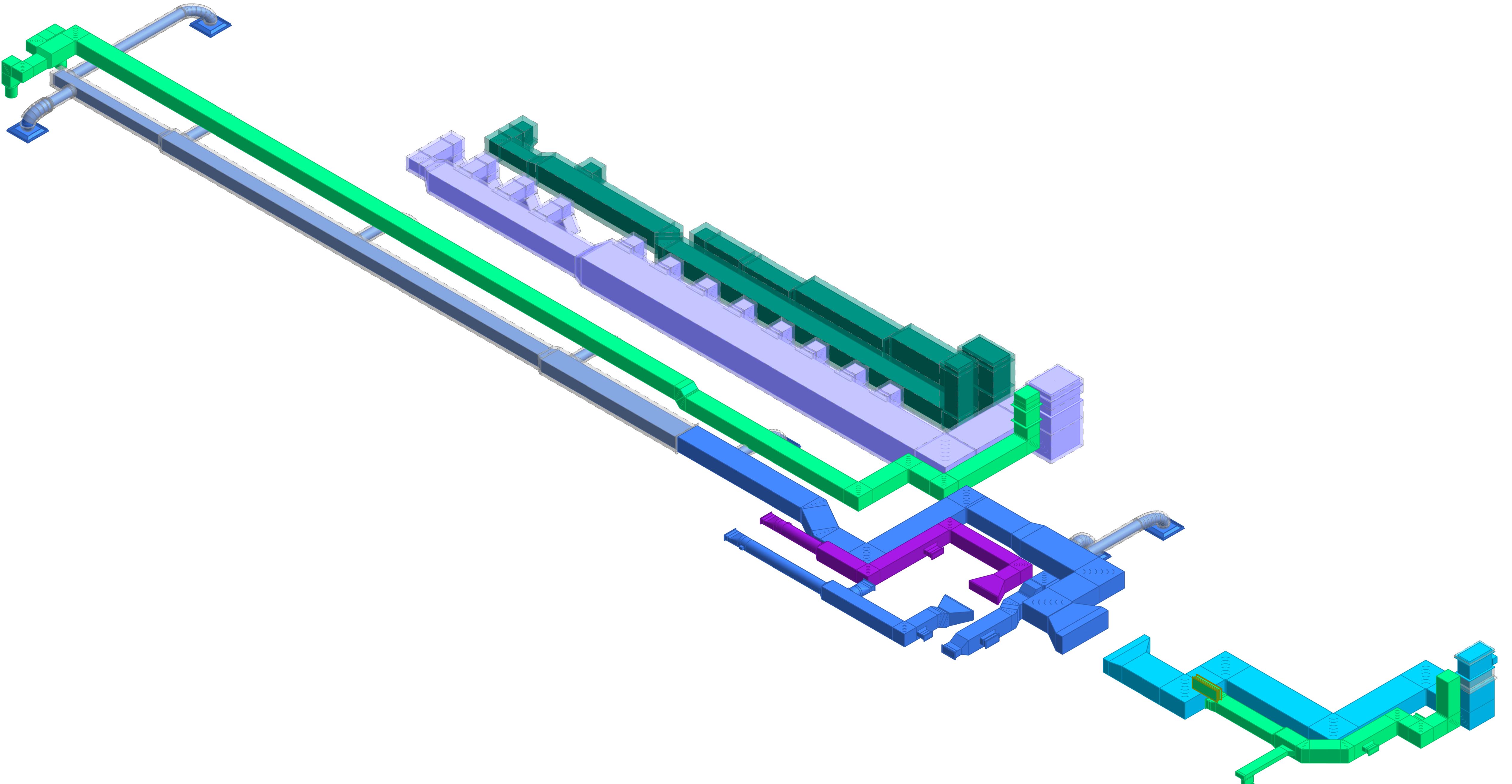


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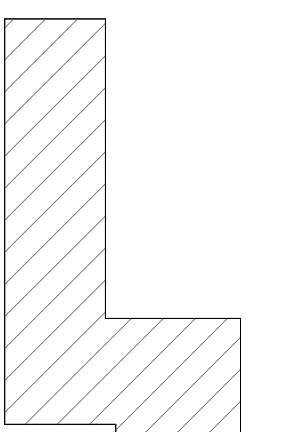
Nasimille, N

MECHANICAL SURF DRAWINGS



1 BASEMENT MECHANICAL DUCTING ISOMETRIC - OVERALL

KEY PLAN



The Motorola logo, which consists of a stylized triangle inside a circle.

11/23/2023 3:43:26 PM

Revision Schedule		
	Revision Description	Revision Date
n	For Installation	10.25.2023
r	For Installation	11.09.2023
	For Installation	11.23.2023

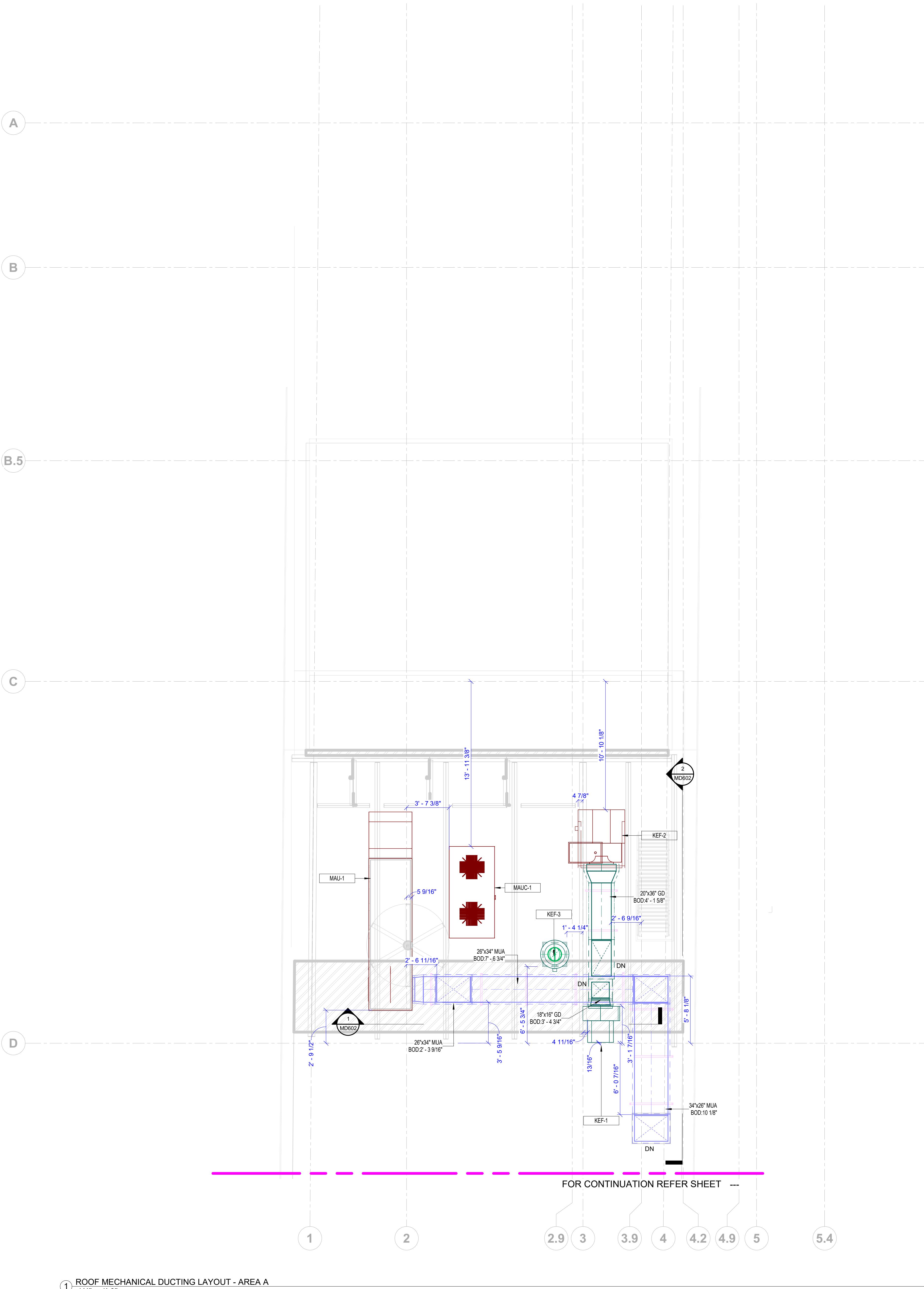
NAME: **REINMENT MECHANICAL DUCTING
ETRIC - OVERALL**

SIZE: ARCH E1 (42 X 30 INCHES)
NUMBER:

005



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ROOF DUCT SCHEDULE			
Duct Type	System Type	Size	Length(Feet)
Rectangular Duct	M-Grease Duct	20"x36"	4.8
Rectangular Duct	M-Makeup Air Duct	24"x24"	0.2
Rectangular Duct	M-Makeup Air Duct	26"x34"	14.8
Rectangular Duct	M-Makeup Air Duct	34"x26"	11.7
Grand total: 6			31.4

ROOF MECHANICAL DUCTING EQUIPMENT SCHEDULE	
Type	Count
KEF-1	1
KEF-2	1
MAU-1	1
MAUC-1	1
Grand total: 4	

405 BROADWAY T1

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MECHANICAL SHOP DRAWINGS

KEY PLAN

Nashville, TN

MECHANICAL SHOP DRAWINGS

COLOUR LEGEND	
EXHAUST AIR	
SUPPLY AIR	
OUTSIDE AIR	
GREASE AIR	
MAKE UP AIR	

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
MVD	MOTORIZED VOLUME DAMPER

SHEET NAME:
ROOF MECHANICAL DUCTING
LAYOUT - AREA A

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
3. ALL DIMENSIONS ARE FROM DUCT.

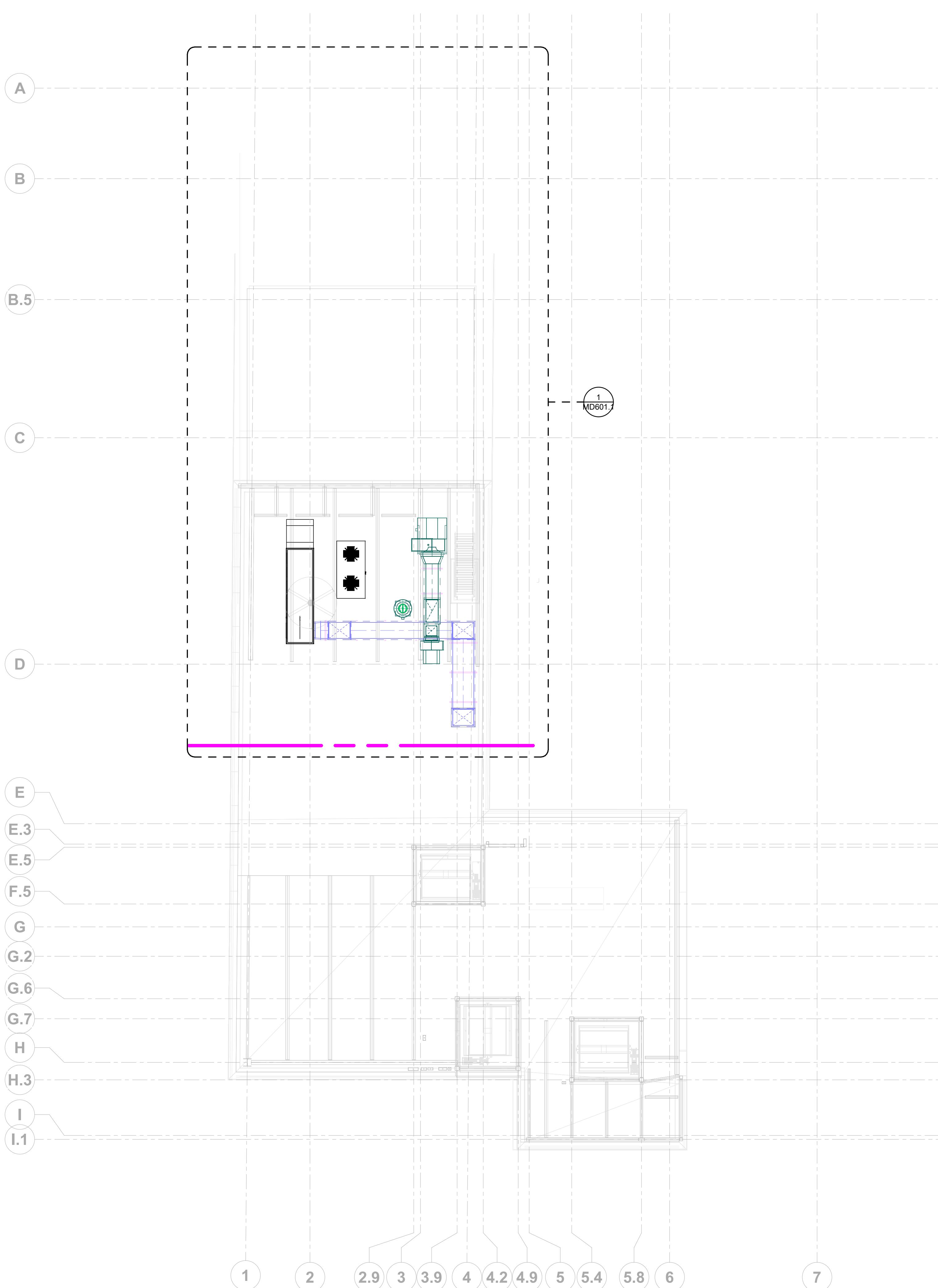
SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD601.1



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Development & Construction Company Ltd. IT & ITES,
Special Economic Zone, Margarpatta City, Hadapsar Pune
411013, India
PH: 08446001000 | FAX: 91-2066280011
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ROOF DUCT SCHEDULE			
Duct Type	System Type	Size	Length(Feet)
Rectangular Duct	M-Grease Duct	20"x36"	4.8
Rectangular Duct	M-Makeup Air Duct	24"x24"	0.2
Rectangular Duct	M-Makeup Air Duct	26"x34"	14.8
Rectangular Duct	M-Makeup Air Duct	34"x26"	11.7
Grand total:		6	31.4

ROOF MECHANICAL DUCTING EQUIPMENT SCHEDULE	
Type	Count
KEF-1	1
KEF-2	1
MAU-1	1
MAUC-1	1
Grand total:	
	4

405 BROADWAY TI

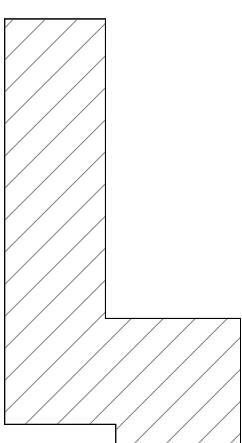
Nashville, TN

MECHANICAL SHOP DRAWINGS

COLOUR LEGEND	
[Green Box]	EXHAUST AIR
[Blue Box]	SUPPLY AIR
[Teal Box]	OUTSIDE AIR
[Dark Green Box]	GREASE AIR
[Purple Box]	MAKE UP AIR

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
MVD	MOTORIZED VOLUME DAMPER

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/27/2023 9:21:33 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.23.2023
R2	For Installation	11.27.2023

SHEET NAME:
ROOF MECHANICAL DUCTING
LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD601

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
3. ALL DIMENSIONS ARE FROM DUCT.

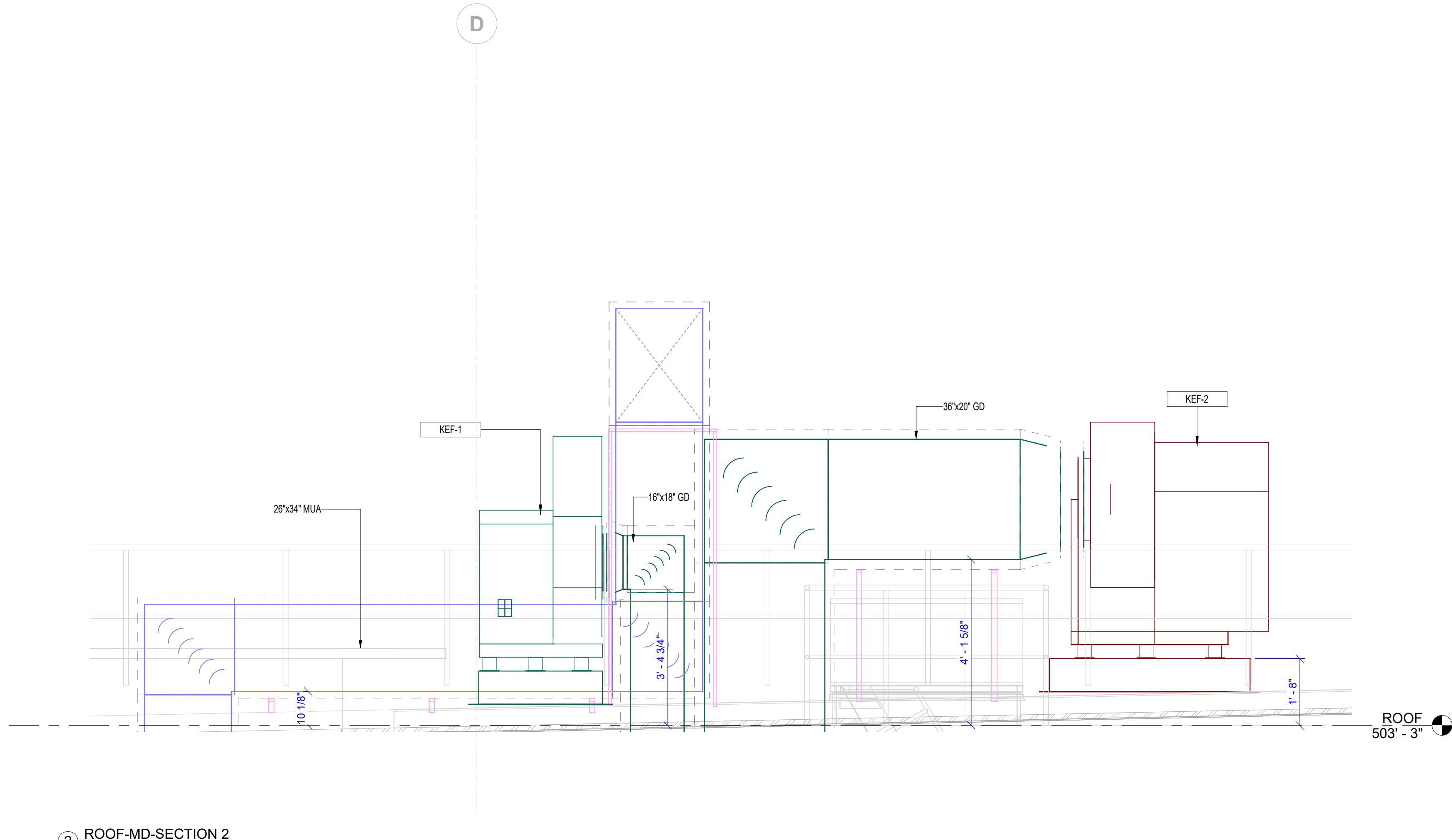
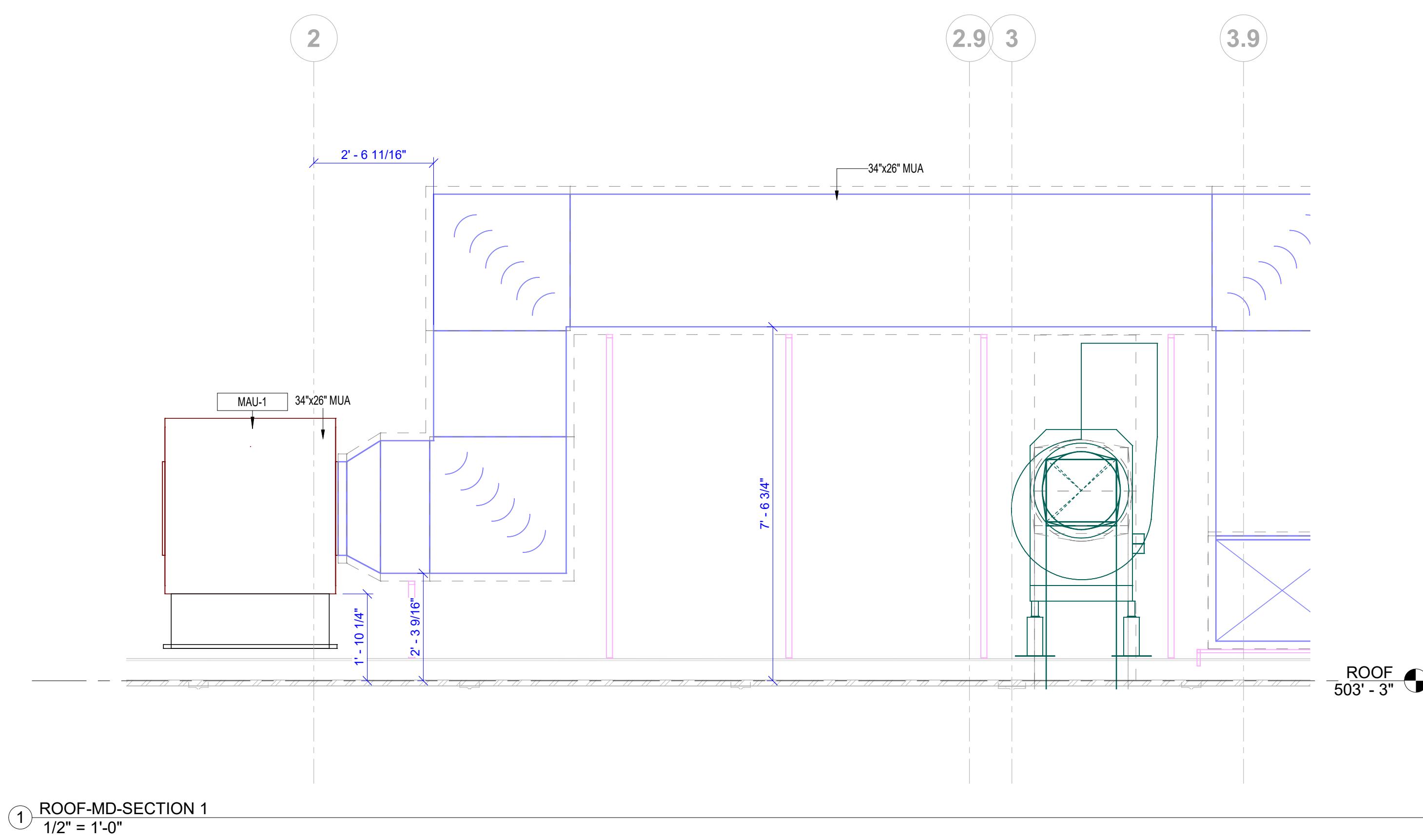


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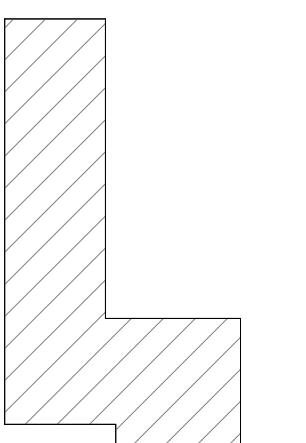
MECHANICAL SHOP DRAWINGS



COLOUR LEGEND	
■	EXHAUST AIR
■	SUPPLY AIR
■	OUTSIDE AIR
■	GREASE AIR
■	MAKE UP AIR

ABBREVIATIONS	
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
GD	GREASE DUCT
MUA	MAKE UP AIR
VD	VOLUME DAMPER
FSD	FIRE SMOKE DAMPER
FD	FIRE DAMPER
MVD	MOTORIZED VOLUME DAMPER

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/27/2023 9:21:33 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.23.2023
R2	For Installation	11.27.2023

GENERAL NOTES

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
- ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
- ALL DIMENSIONS ARE FROM DUCT.

SHEET NAME:
ROOF MECHANICAL DUCTING -
SECTIONS

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MD602

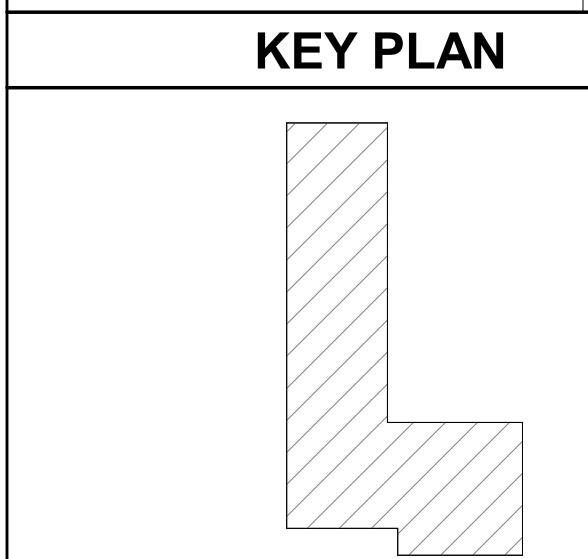
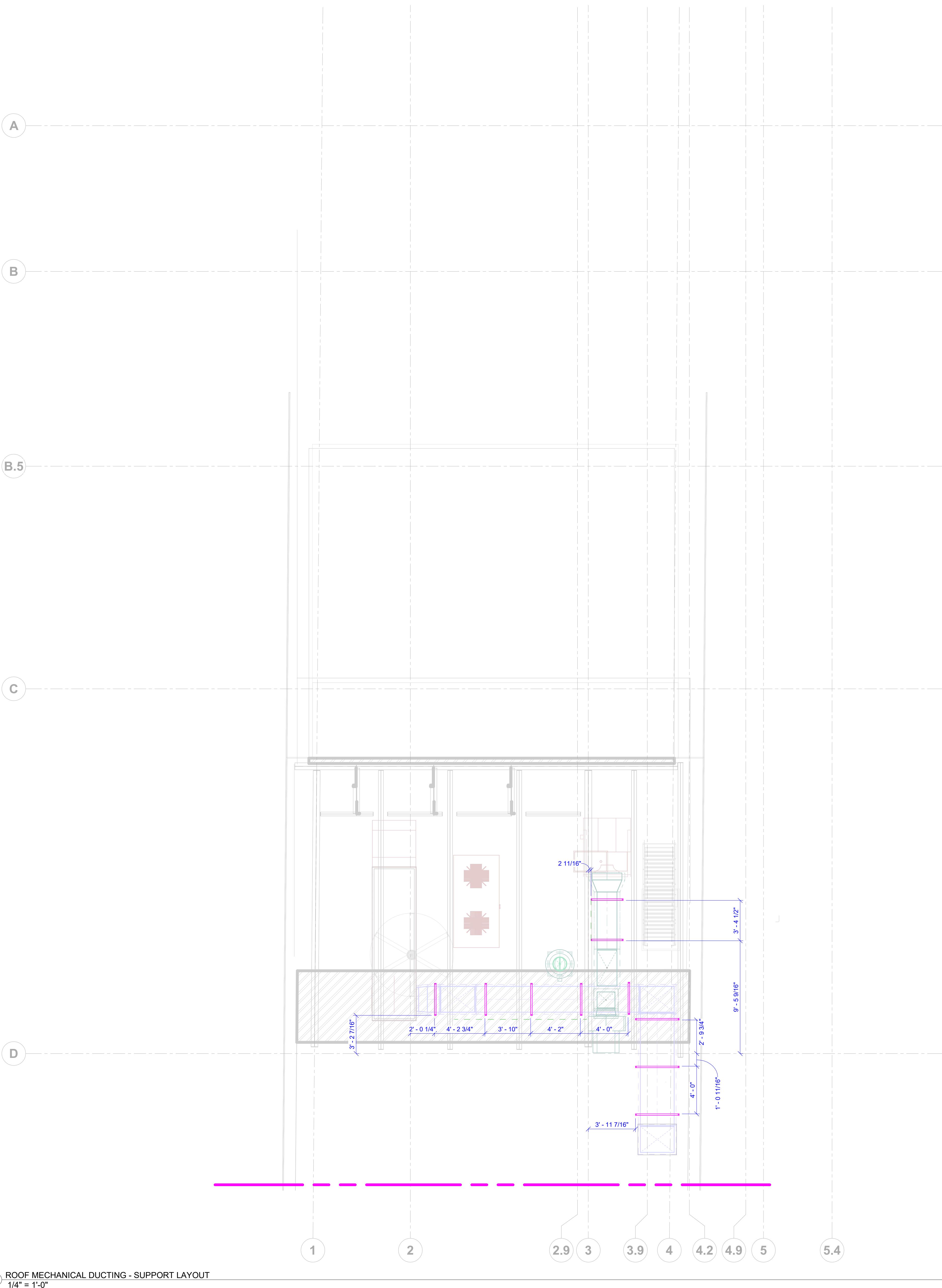


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MECHANICAL SHOP DRAWINGS



PROJECT NORTH

PRINTED DATE: 11/27/2023 9:21:33 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Installation	11.23.2023
R1	For Installation	11.27.2023

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES.
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID.
3. ALL DIMENSIONS ARE FROM DUCT.

SHEET NAME:
ROOF MECHANICAL DUCTING -
SUPPORT LAYOUT

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MD603

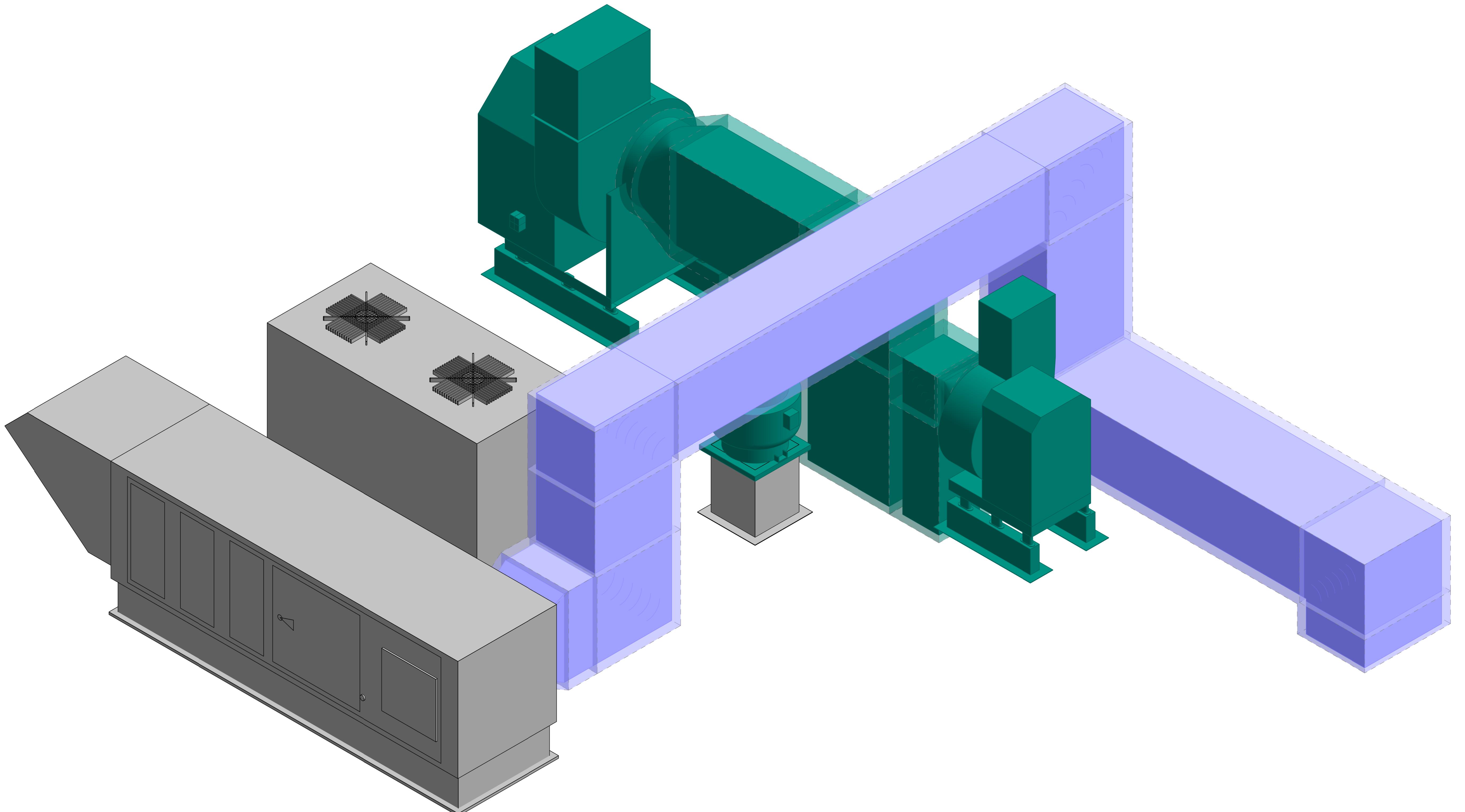


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MECHANICAL SHOP DRAWINGS



1 ROOF MECHANICAL DUCTING ISOMETRIC - OVERALL

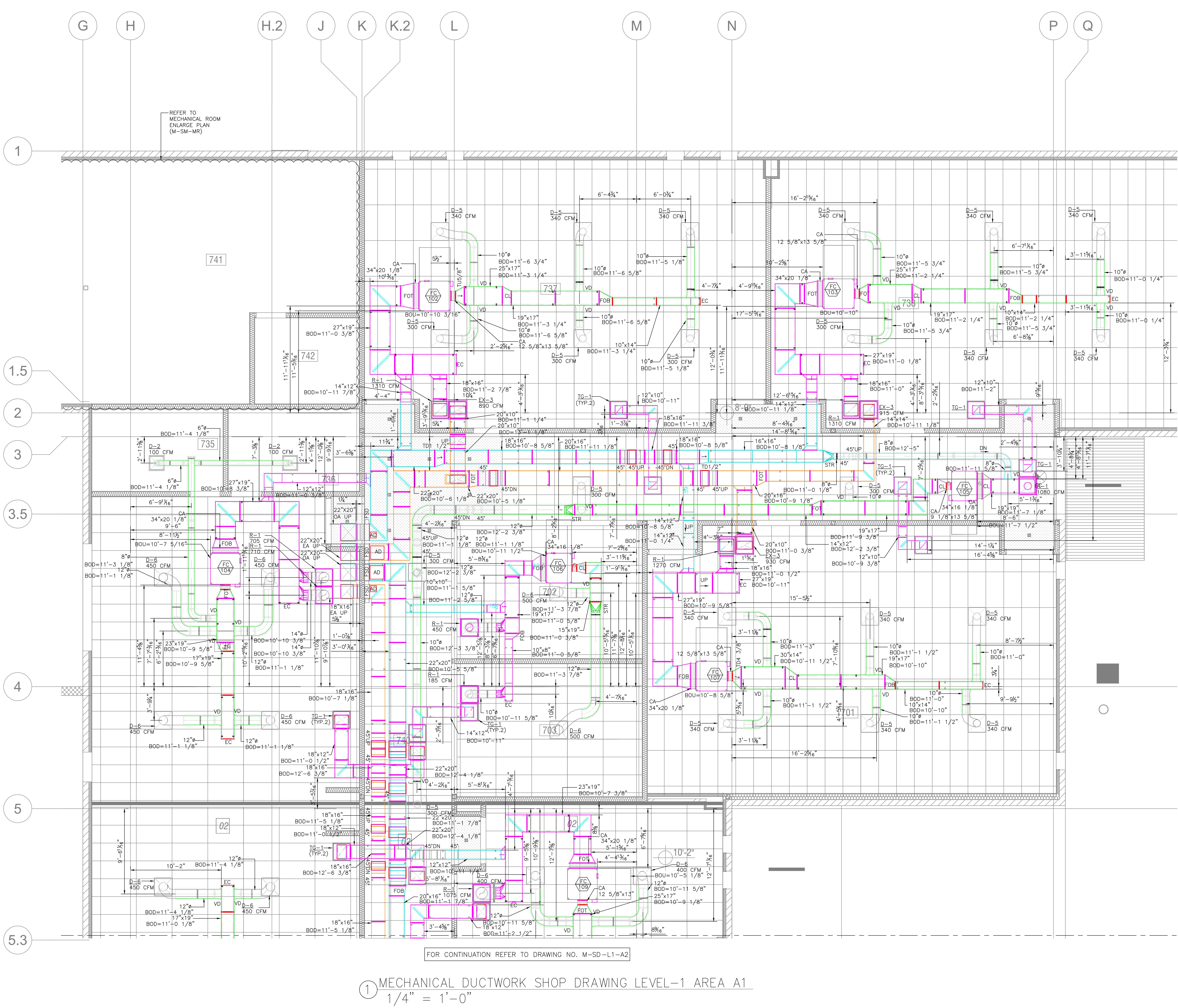
SHEET NAME:

**ROOF MECHANICAL DUCTING
ISOMETRIC - OVERALL**

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

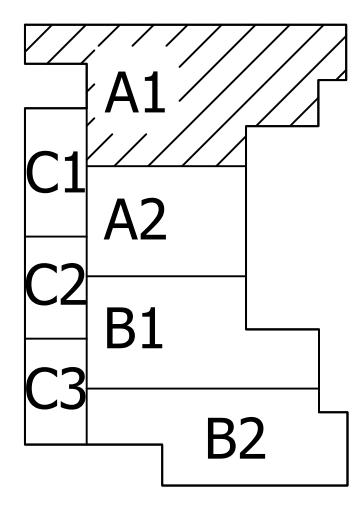
DATA MANAGEMENT

MD605

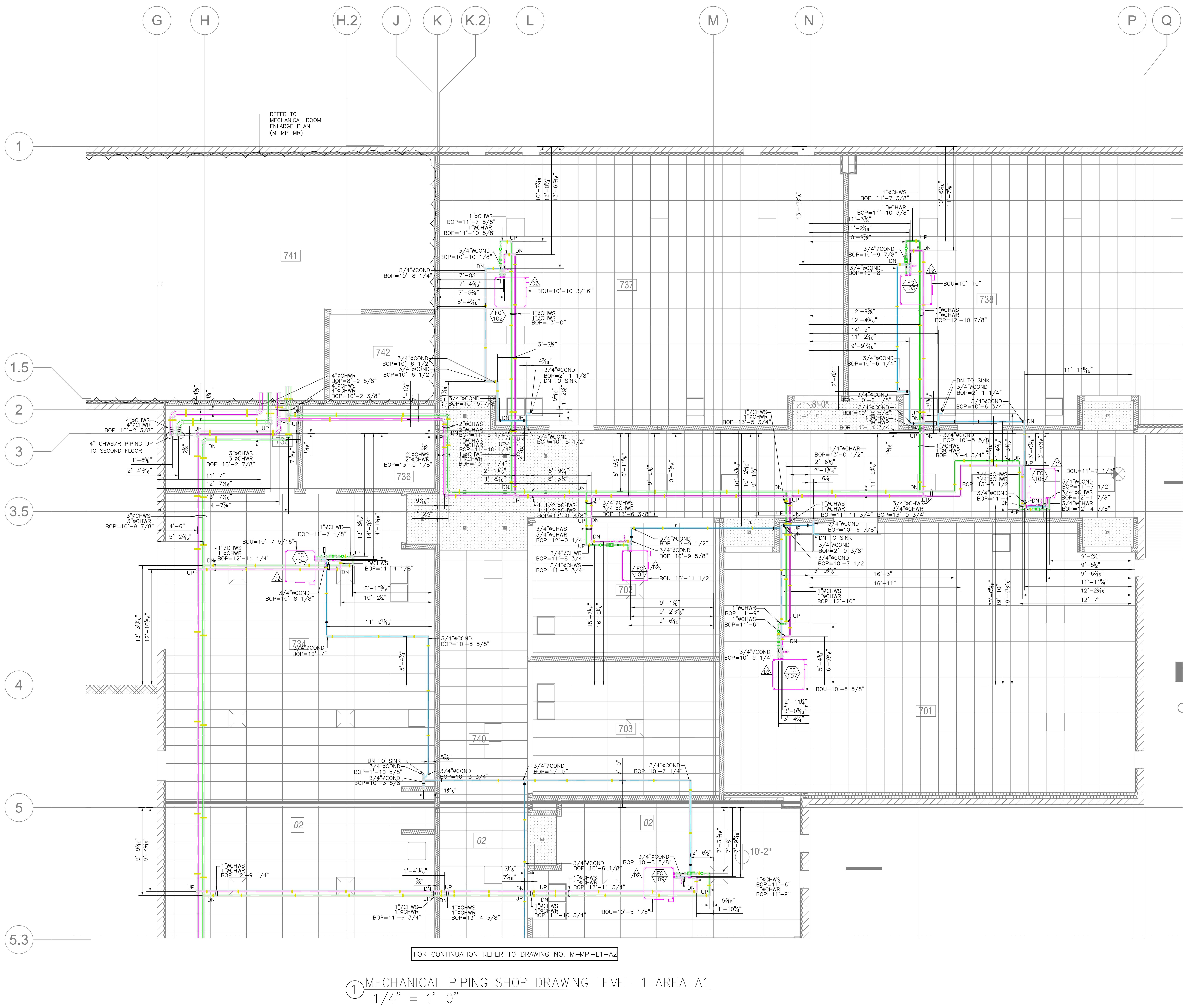


ABBREVIATIONS:-	
AD	ACCESS DOOR
BOD	BOTTOM OF DUCT
BOU	BOTTOM OF UNIT
CA	CANVAS
DN	DOWN
EA	EXHAUST AIR
FSD	FIRE SMOKE DAMPER
FOB	FLAT OF BOTTOM
FOT	FLAT OF TOP
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DETECTOR
STR	SQUARE TO ROUND
VD	VOLUME DAMPER
VCD	VOLUME CONTROL DAMPER
EC	END CAP

COLOR LEGEND:-	
	EXHAUST AIR
	OUTSIDE AIR
	RETURN AIR AND TRANSFER AIR
	LOW PRESSURE SUPPLY AIR

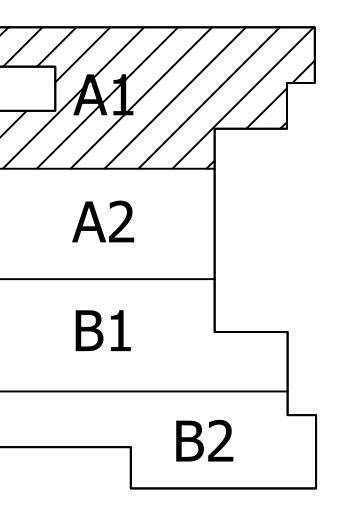
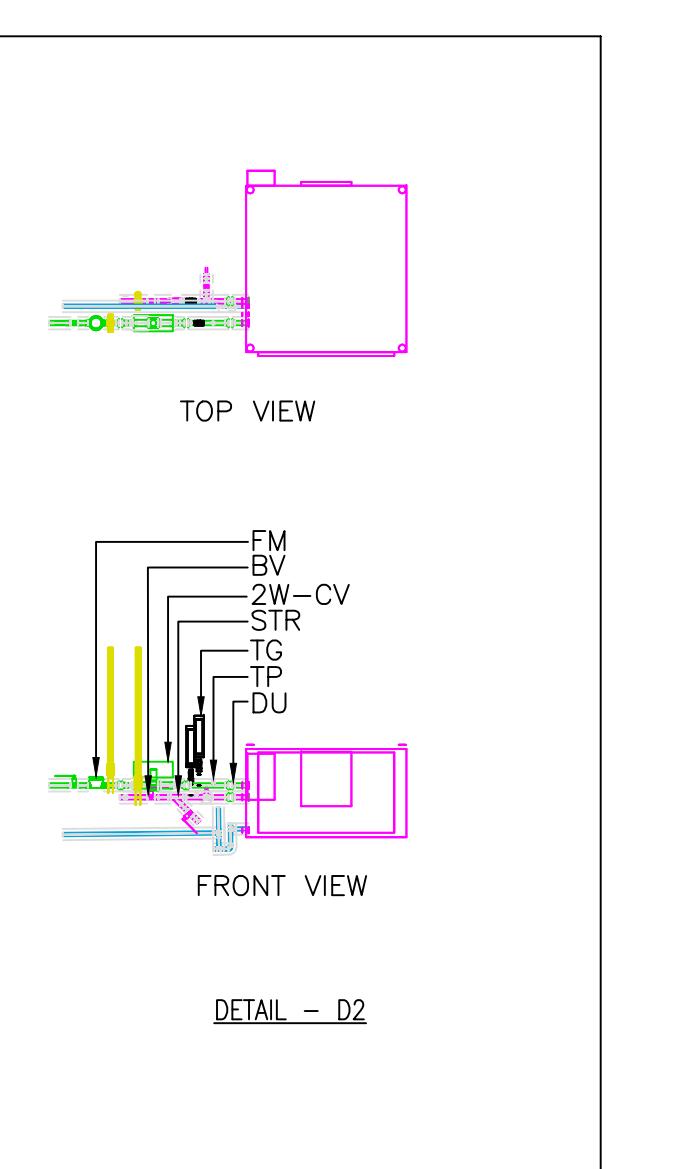
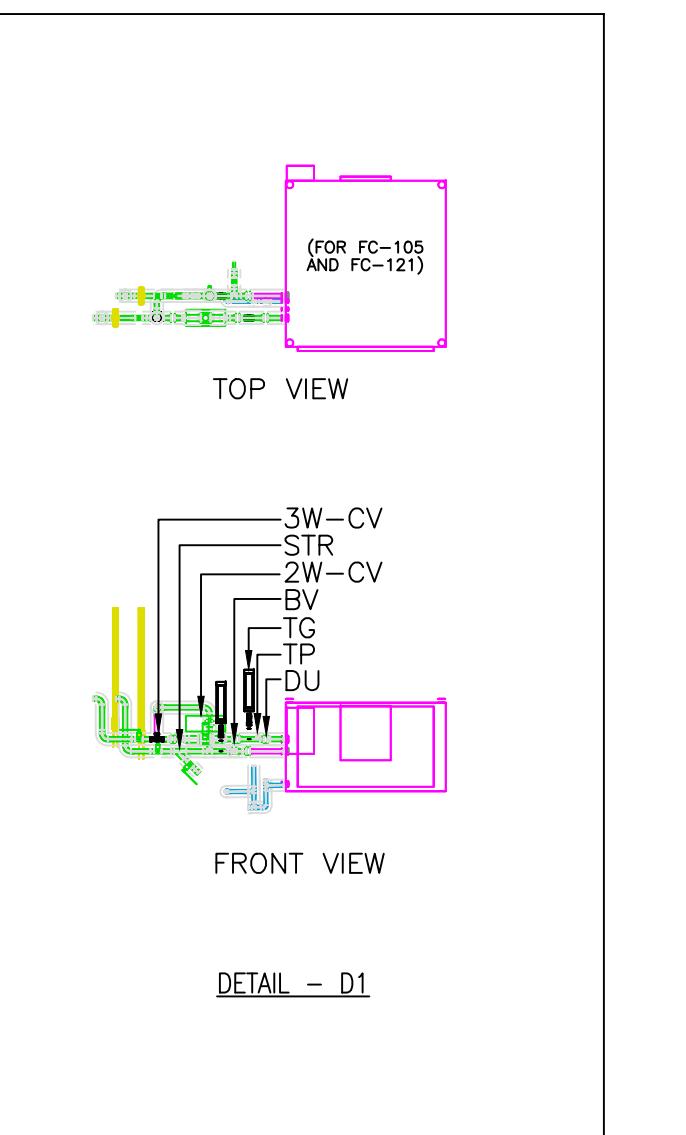


① MECHANICAL DUCTWORK SHOP DRAWING LEVEL-1 AREA A1
1/4" = 1'-0"

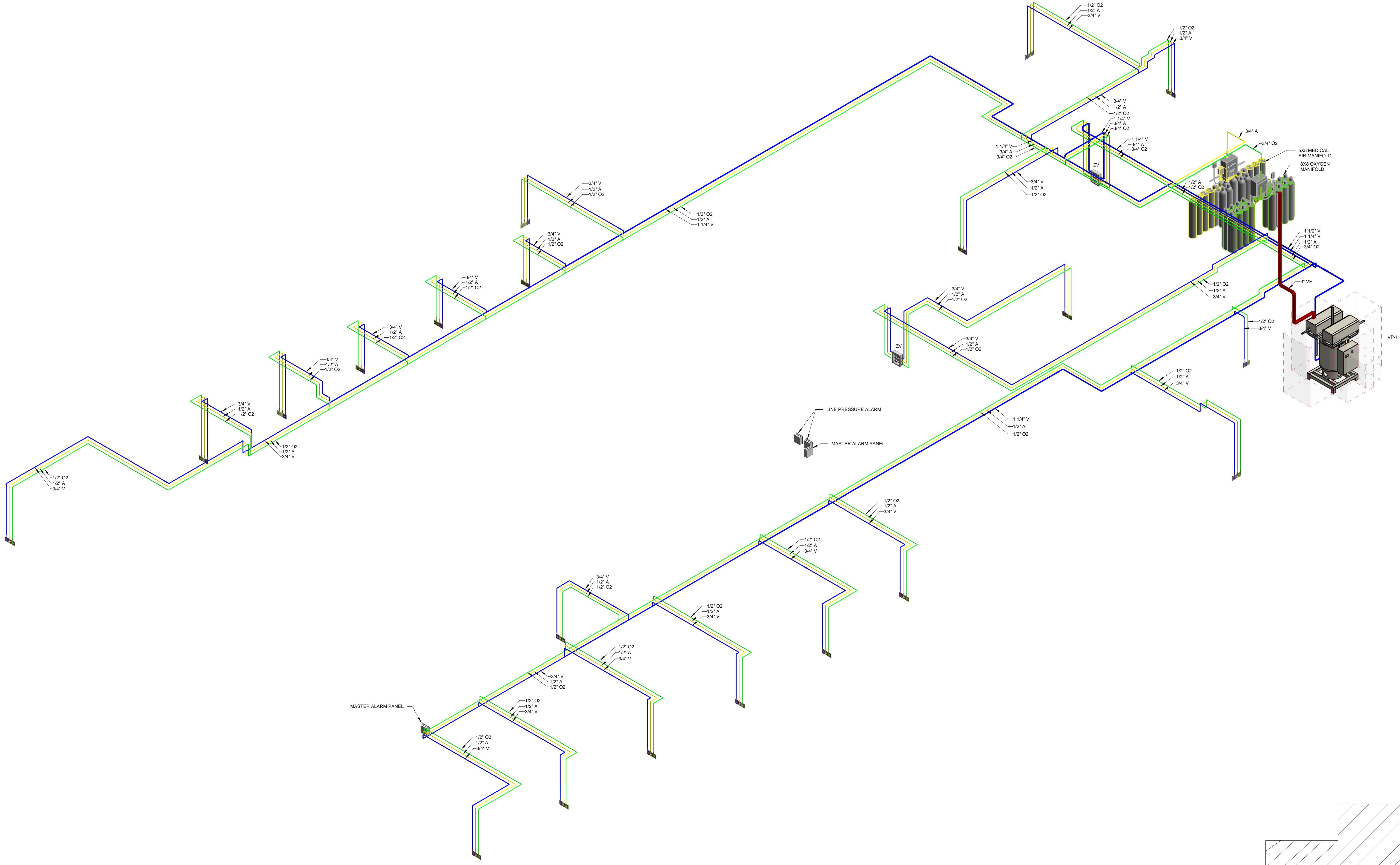


ABBREVIATIONS:—	
F	BUTTERFLY VALVE
BOP	BOTTOM OF PIPE
V	BALL VALVE
HWR	CHILLED WATER RETURN
HWS	CHILLED WATER SUPPLY
OND	CONDENSATE DRAIN
ONDWR	CONDENSOR WATER RETURN
ONDWS	CONDENSOR WATER SUPPLY
DN	DOWN
DU	DIELECTRIC UNION
FCU	FAN COIL UNIT
FM	FLOW METER
FX	FLEXIBLE CONNECTION
IV	ISOLATION VALVE
P	PRESSURE GAUGE
STR	STRAINER
TP	TEST POINT
TG	TEMPERATURE GAUGE
W-CV	TWO WAY CONTROL VALVE
W-CV	THREE WAY CONTROL VALVE

COLOR LEGEND:-	
	CHWR
	CHWS
	COND
	CONDWS
	CONDWR

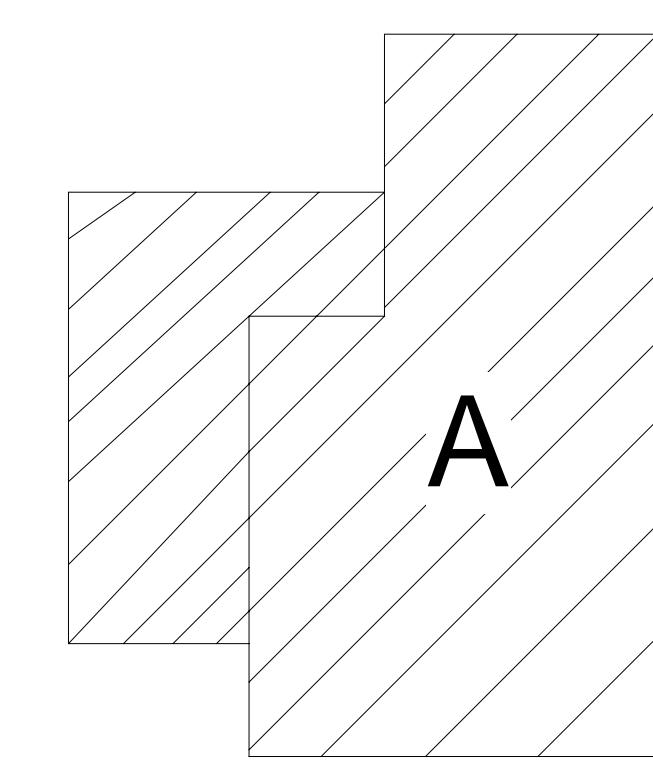


KEY PLAN



① MED GAS ISOMETRIC DRAWING LEVEL 1

COLOR CODE & ABBREVIATIONS		
COLOR	SERVICE TYPE	
Dark Blue	MEDICAL VACUUM	V
Yellow	MEDICAL AIR	A
Green	OXYGEN	O ₂



KEY PLAN



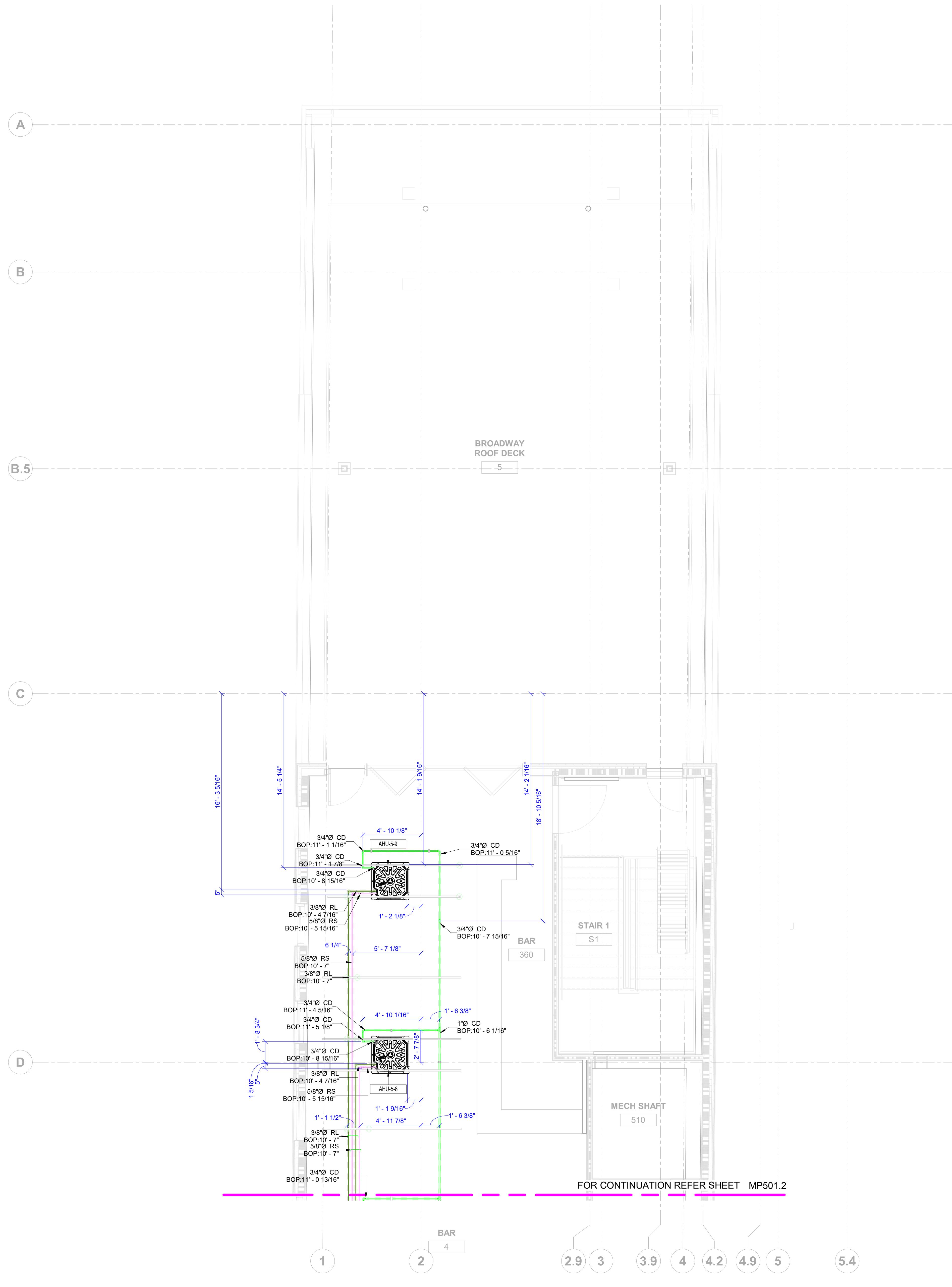


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MECHANICAL SHOP DRAWINGS



L05 PIPE SCHEDULE			
System Type	Family and Type	Size	Length(Feet)
MP-Condensate Drain	Pipe Types: COPPER	1 1/2"	18.8
MP-Condensate Drain	Pipe Types: COPPER	1"	35.8
MP-Condensate Drain	Pipe Types: COPPER	2"	69.0
MP-Condensate Drain	Pipe Types: COPPER	3/4"	150.0
MP-High Pressure Gas	Pipe Types: COPPER	1"	188.2
MP-High Pressure Gas	Pipe Types: COPPER	3/4"	36.1
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"	89.9
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"	70.5
MP-Low Pressure Gas	Pipe Types: COPPER	1"	50.6
MP-Refregerent Liquid	Pipe Types: COPPER	1/2"	34.1
MP-Refregerent Liquid	Pipe Types: COPPER	1/4"	99.2
MP-Refregerent Liquid	Pipe Types: COPPER	3/4"	72.0
MP-Refregerent Liquid	Pipe Types: COPPER	3/8"	226.1
MP-Refregerant Suction	Pipe Types: COPPER	5/8"	117.3
MP-Refregerant Suction	Pipe Types: COPPER	1/2"	95.6
MP-Refregerant Suction	Pipe Types: COPPER	5/8"	220.1

1573.3

L05 PIPE FITTINGS SCHEDULE			
Type	System Type	Size	Count
Nibco CU 607 90 Close Elbow	MP-Condensate Drain	3/4"-3/4"	2
Nibco CU 611 Reducing Tee	MP-High Pressure Gas	1"-1"	1
Nibco CU 611 Reducing Tee	MP-Low Pressure Gas	1 1/2"-1 1/2"-1 1/2"	1
Nibco CU 611 Reducing Tee	MP-Refregerent Liquid	5/8"-5/8"-5/8"	1
Nibco CU_1/8" to 8"	MP-Condensate Drain	1 1/2"-1 1/2"-1 1/2"	2
Nibco CU_1/8" to 8"	MP-Condensate Drain	1"-1"	2
Nibco CU_1/8" to 8"	MP-Condensate Drain	2"-2"	3
Nibco CU_1/8" to 8"	MP-Condensate Drain	3/4"-3/4"-3/4"	1
Nibco CU_1/8" to 8"	MP-Refregerent Liquid	1/4"-1/4"-1/4"	1
Nibco CU_1/8" to 8"	MP-Refregerant Suction	1/2"-1/2"-1/2"	1
Nibco CU 22.5 Elbow Long Radius	MP-High Pressure Gas	1"-1"	2
Nibco CU 22.5 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"-1 1/2"	2
Nibco CU 22.5 Elbow Long Radius	MP-Refregerent Liquid	5/8"-5/8"	2
Nibco CU_30 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"-1 1/2"	2
Nibco CU_30 Elbow Long Radius	MP-High Pressure Gas	1 1/4"-1 1/4"	2
Nibco CU_30 Elbow Long Radius	MP-Refregerant Suction	1/2"-1/2"	2
Nibco CU_30 Elbow Long Radius	MP-Refregerant Suction	5/8"-5/8"	8
Nibco CU_45 Elbow Long Radius	MP-Condensate Drain	3/4"-3/4"	3
Nibco CU_45 Elbow Long Radius	MP-High Pressure Gas	1"-1"	4
Nibco CU_45 Elbow Long Radius	MP-High Pressure Gas	3/4"-3/4"	1
Nibco CU_45 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"-1 1/2"	2
Nibco CU_45 Elbow Long Radius	MP-Refregerent Liquid	1/2"-1/2"	1
Nibco CU_45 Elbow Long Radius	MP-Refregerent Liquid	1/4"-1/4"	3
Nibco CU_45 Elbow Long Radius	MP-Refregerent Liquid	3/8"-3/8"	4
Nibco CU_45 Elbow Long Radius	MP-Refregerent Liquid	5/8"-5/8"	6
Nibco CU_45 Elbow Long Radius	MP-Refregerant Suction	1/2"-1/2"	2
Nibco CU_45 Elbow Long Radius	MP-Refregerant Suction	5/8"-5/8"	4
Nibco CU_60 Elbow Long Radius	MP-Refregerant Liquid	5/8"-5/8"	2
Nibco CU_90 Elbow Close Radius	MP-Condensate Drain	3/4"-3/4"	1
Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	1 1/2"-1 1/2"	2
Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	1"-1"	5
Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	2"-2"	9
Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	3/4"-3/4"	36
Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	1"-1"	5
Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	3/4"-3/4"	7
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"-1 1/2"	5
Nibco CU_90 Elbow Long Radius	MP-Refregerant Suction	1"-1"	6
Nibco CU_90 Elbow Long Radius	MP-Refregerant Suction	1/2"-1/2"	5
Nibco CU_90 Elbow Long Radius	MP-Refregerent Liquid	1/4"-1/4"	24
Nibco CU_90 Elbow Long Radius	MP-Refregerent Liquid	3/8"-3/8"	40
Nibco CU_90 Elbow Long Radius	MP-Refregerent Liquid	5/8"-5/8"	9
Nibco CU_90 Elbow Long Radius	MP-Refregerant Suction	1/2"-1/2"	22
Nibco CU_90 Elbow Long Radius	MP-Refregerant Suction	5/8"-5/8"	34
Nibco CU Reducing Coupling	MP-Condensate Drain	1 1/2"-1"	2
Nibco CU Reducing Coupling	MP-Condensate Drain	1 1/2"-3/4"	2
Nibco CU Reducing Coupling	MP-Condensate Drain	1"-3/4"	4
Nibco CU Reducing Coupling	MP-Condensate Drain	2"-1 1/2"	2
Nibco CU Reducing Coupling	MP-Condensate Drain	2"-1"	1
Nibco CU Reducing Coupling	MP-Condensate Drain	2"-3/4"	2
Nibco CU Reducing Coupling	MP-High Pressure Gas	1"-3/4"	2
Nibco CU Reducing Coupling	MP-Low Pressure Gas	1 1/2"-1"	2
Nibco CU Reducing Coupling	MP-Refregerent Liquid	5/8"-1/2"	1

Grand total: 297 297

LEGENDS	
■	REFRIGERANT SUCTION
■	REFRIGERANT LIQUID
■	LOW PRESSURE GAS
■	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN
■	COMBUSTION AIR
■	NATURAL GAS

ABBREVIATIONS	
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
LPG	LOW PRESSURE GAS
HPG	HIGH PRESSURE GAS
CD	MP CONDENSATE DRAIN
CA	COMBUSTION AIR
NG	NATURAL GAS

SHEET NAME:
LEVEL 05 MECHANICAL PIPING
LAYOUT - AREA A

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MP501.1

PRINTED DATE: 11/22/2023 8:11:09 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.22.2023

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

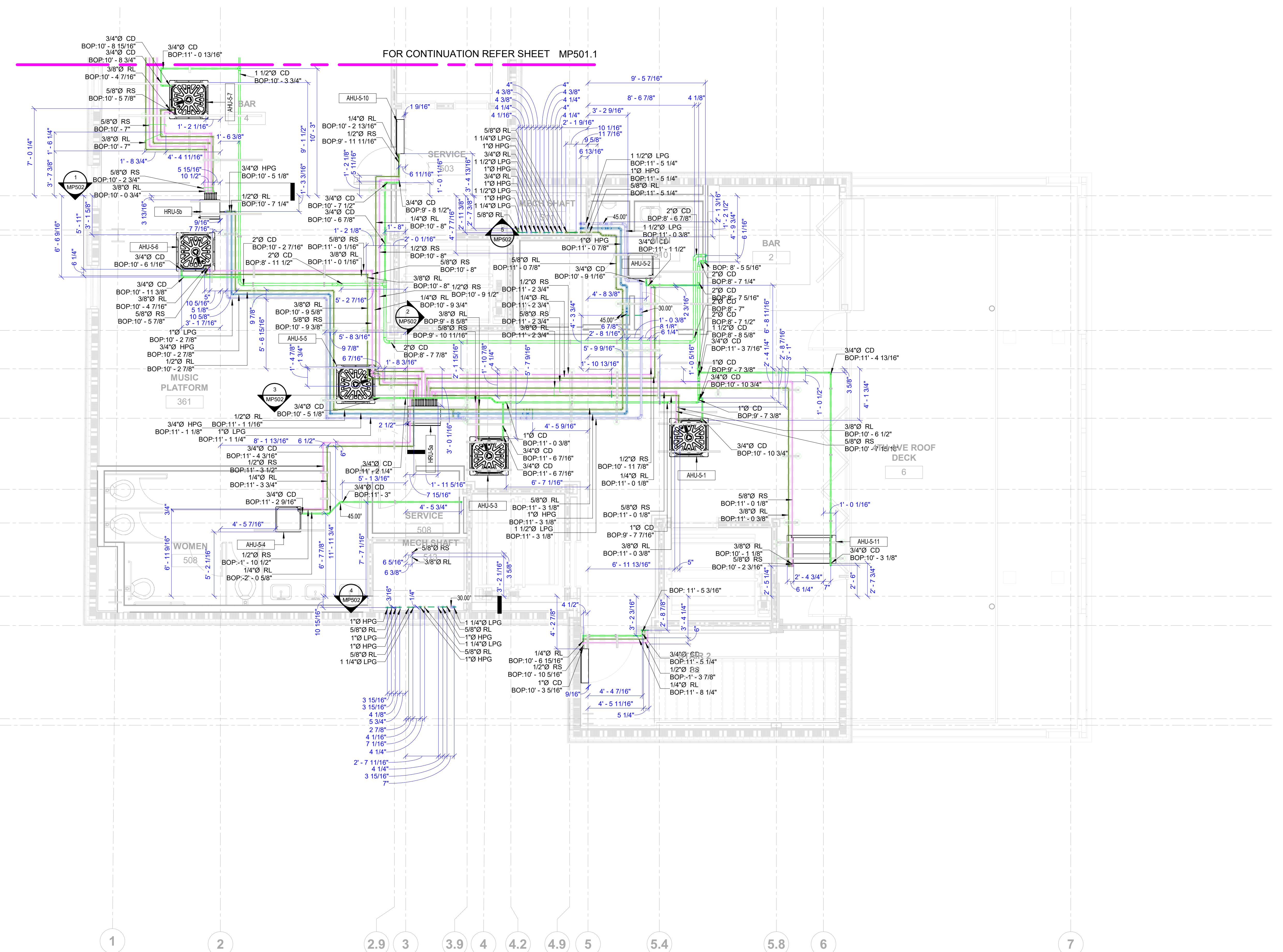


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MECHANICAL SHOP DRAWINGS



L05 PIPE SCHEDULE			
System Type	Family and Type	Size	Length(Feet)
Condensate Drain	Pipe Types: COPPER	1 1/2"Ø	18.8
Condensate Drain	Pipe Types: COPPER	1"Ø	35.8
Condensate Drain	Pipe Types: COPPER	2"Ø	69.0
Condensate Drain	Pipe Types: COPPER	3/4"Ø	150.0
High Pressure Gas	Pipe Types: COPPER	1"Ø	188.2
High Pressure Gas	Pipe Types: COPPER	3/4"Ø	36.1
Low Pressure Gas	Pipe Types: COPPER	1 1/2"Ø	89.9
Low Pressure Gas	Pipe Types: COPPER	1 1/4"Ø	70.5
Low Pressure Gas	Pipe Types: COPPER	1"Ø	50.6
Refrigerent Liquid	Pipe Types: COPPER	1/2"Ø	34.1
Refrigerent Liquid	Pipe Types: COPPER	1/4"Ø	99.2
Refrigerent Liquid	Pipe Types: COPPER	3/4"Ø	72.0
Refrigerent Liquid	Pipe Types: COPPER	3/8"Ø	226.1
Refrigerant Suction	Pipe Types: COPPER	5/8"Ø	117.3
Refrigerant Suction	Pipe Types: COPPER	1/2"Ø	95.6
Refrigerant Suction	Pipe Types: COPPER	5/8"Ø	220.1
			1573.3

L0-5 PIPE FITTINGS SCHEDULE				
Family and Type	System Type	Size	Count	
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	1 1/2"ø-1"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	1 1/2"ø-3/4"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	1"ø-3/4"ø	4	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	2"ø-1 1/2"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	2"ø-1"ø	1	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Condensate Drain	2"ø-3/4"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-High Pressure Gas	1"ø-3/4"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Low Pressure Gas	1 1/2"ø-1"ø	2	Nibco
Nibco CU 600 Reducing Coupling C x C: Nibco CU_Reducing Coupling	MP-Refrigerent Liquid	5/8"ø-1/2"ø	1	Nibco
Nibco CU 607 90 Elbow Close Rough C x C1: Nibco CU_607 90 Close Elbow	MP-Condensate Drain	3/4"ø-3/4"ø	2	Nibco
Nibco CU 607 90 Elbow Close Rough C x C: Nibco CU_90 Elbow Close Radius	MP-Condensate Drain	3/4"ø-3/4"ø	1	Nibco
Nibco CU 607-LT 22.5 Elbow Long Radius C x C: Nibco CU_22.5 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	2	Nibco
Nibco CU 607-LT 22.5 Elbow Long Radius C x C: Nibco CU_22.5 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2	Nibco
Nibco CU 607-LT 22.5 Elbow Long Radius C x C: Nibco CU_22.5 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	2	Nibco
Nibco CU 607-LT 30 Elbow Long Radius C x C: Nibco CU_30 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2	Nibco
Nibco CU 607-LT 30 Elbow Long Radius C x C: Nibco CU_30 Elbow Long Radius	MP-Low Pressure Gas	1 1/4"ø-1 1/4"ø	2	Nibco
Nibco CU 607-LT 30 Elbow Long Radius C x C: Nibco CU_30 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	2	Nibco
Nibco CU 607-LT 30 Elbow Long Radius C x C: Nibco CU_30 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	8	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Condensate Drain	3/4"ø-3/4"ø	3	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	4	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-High Pressure Gas	3/4"ø-3/4"ø	1	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerent Liquid	1/2"ø-1/2"ø	1	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerent Liquid	1/4"ø-1/4"ø	3	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerent Liquid	3/8"ø-3/8"ø	4	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	6	Nibco
Nibco CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	2	Nibco

L0-5 PIPE FITTINGS SCHEDULE			
Family and Type	System Type	Size	Count
CU 607-LT 45 Elbow Long Radius C x C: Nibco CU_45 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	4
CU 607-LT 60 Elbow Long Radius C x C: Nibco CU_60 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	2
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	1 1/2"ø-1 1/2"ø	2
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	1"ø-1"ø	5
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	1"ø-3/4"ø	2
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	2"ø-2"ø	9
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Condensate Drain	3/4"ø-3/4"ø	36
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	5
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	3/4"ø-3/4"ø	7
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	5
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1"ø-1"ø	6
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerent Liquid	1/2"ø-1/2"ø	5
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerent Liquid	1/4"ø-1/4"ø	24
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerent Liquid	3/8"ø-3/8"ø	40
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	9
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	22
CU 607-LT 90 Elbow Long Radius C x C: Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	34
CU 611 Tee C x C x C1: Nibco CU 611 Reducing Tee	MP-High Pressure Gas	1"ø-1"ø-1"ø	1
CU 611 Tee C x C x C1: Nibco CU 611 Reducing Tee	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
CU 611 Tee C x C x C1: Nibco CU 611 Reducing Tee	MP-Refrigerent Liquid	5/8"ø-5/8"ø-5/8"ø	1
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Condensate Drain	1 1/2"ø-1 1/2"ø-1 1/2"ø	2
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Condensate Drain	1"ø-1"ø-1"ø	2
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Condensate Drain	2"ø-2"ø-2"ø	3
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Condensate Drain	3/4"ø-3/4"ø-3/4"ø	1
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Refrigerent Liquid	1/4"ø-1/4"ø-1/4"ø	1
CU 611 Tee C x C x C: Nibco CU_1/8" to 8" Tee	MP-Refrigerant Suction	1/2"ø-1/2"ø-1/2"ø	1

GENERAL NOTES

PRINTED DATE: 11/22/2023 8:11:12 PM

Revision Schedule

1

MP501.2

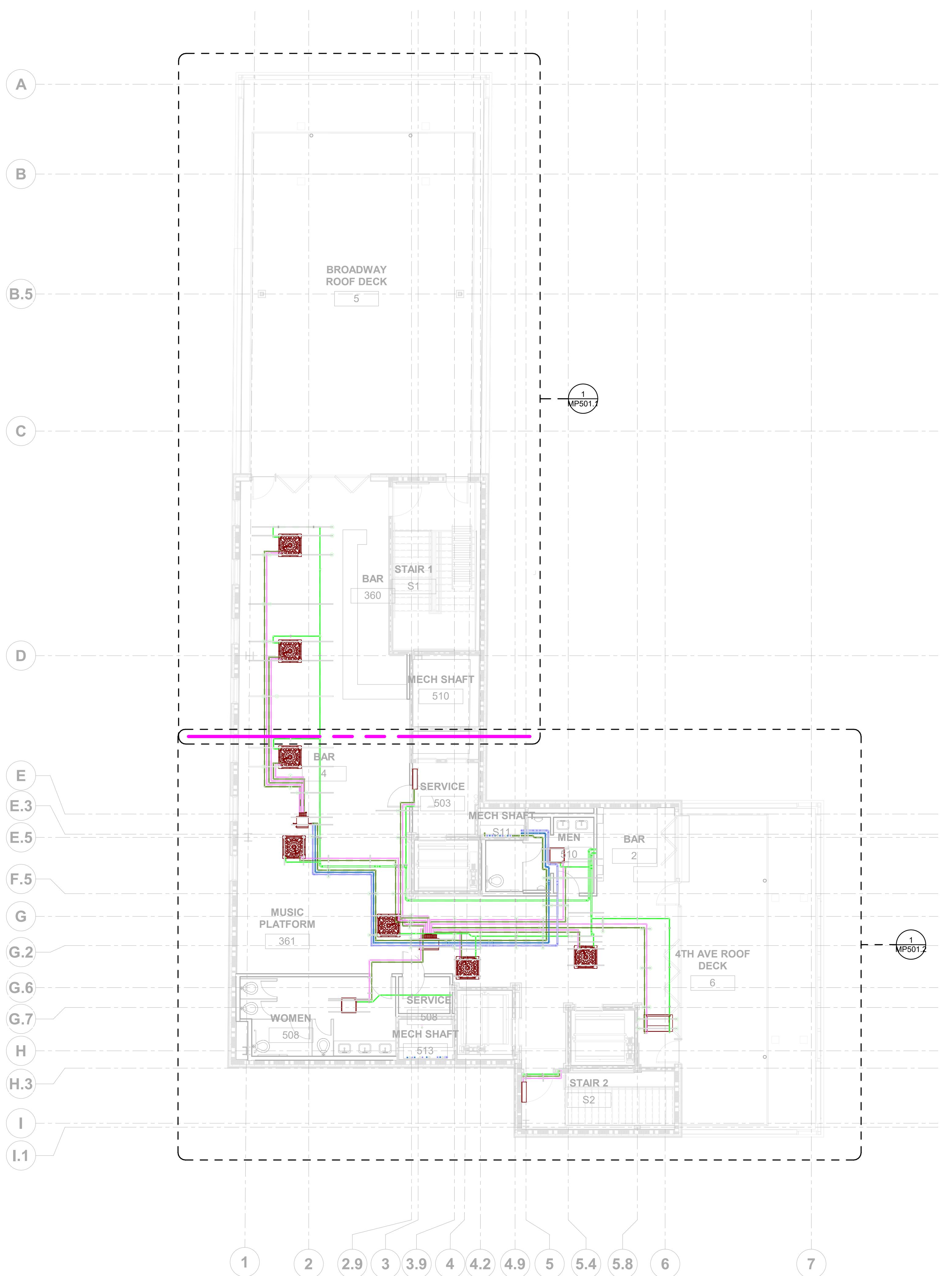


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MECHANICAL SHOP DRAWINGS



① LEVEL 05 MECHANICAL PIPING LAYOUT - OVERALL
1/8" = 1'-0"

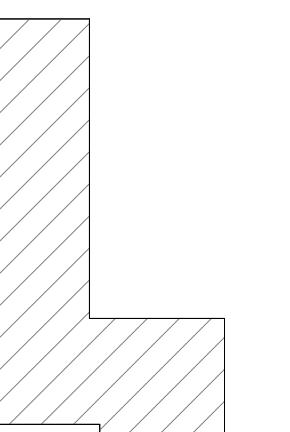
L05 PIPE SCHEDULE			
System Type	Family and Type	Size	Length(Feet)
MP-Condensate Drain	Pipe Types: COPPER	1 1/2"ø	18.8
MP-Condensate Drain	Pipe Types: COPPER	1"ø	35.8
MP-Condensate Drain	Pipe Types: COPPER	2"ø	69.0
MP-Condensate Drain	Pipe Types: COPPER	3/4"ø	150.0
MP-High Pressure Gas	Pipe Types: COPPER	1"ø	188.2
MP-High Pressure Gas	Pipe Types: COPPER	3/4"ø	36.1
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"ø	89.9
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"ø	70.5
MP-Low Pressure Gas	Pipe Types: COPPER	1"ø	50.6
MP-Refrigerent Liquid	Pipe Types: COPPER	1/2"ø	34.1
MP-Refrigerent Liquid	Pipe Types: COPPER	1/4"ø	99.2
MP-Refrigerent Liquid	Pipe Types: COPPER	3/4"ø	72.0
MP-Refrigerent Liquid	Pipe Types: COPPER	3/8"ø	226.1
MP-Refrigerent Liquid	Pipe Types: COPPER	5/8"ø	117.3
MP-Refrigerant Suction	Pipe Types: COPPER	1/2"ø	95.6
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"ø	220.1
			1573.3

L05 PIPE FITTINGS SCHEDULE			
Type	System Type	Size	Count
Nibco CU 607 90 Close Elbow	MP-Condensate Drain	3/4"ø-3/4"ø	2
Nibco CU 611 Reducing Tee	MP-High Pressure Gas	1"ø-1"ø-1"ø	1
Nibco CU 611 Reducing Tee	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø-1 1/2"ø	1
Nibco CU 611 Reducing Tee	MP-Refrigerent Liquid	5/8"ø-5/8"ø-5/8"ø	1
Nibco CU 1/8" to 8" Tee	MP-Condensate Drain	1 1/2"ø-1 1/2"ø-1 1/2"ø	2
Nibco CU 1/8" to 8" Tee	MP-Condensate Drain	1"ø-1"ø-1"ø	2
Nibco CU 1/8" to 8" Tee	MP-Condensate Drain	2"ø-2"ø-2"ø	3
Nibco CU 1/8" to 8" Tee	MP-Condensate Drain	3/4"ø-3/4"ø-3/4"ø	1
Nibco CU 1/8" to 8" Tee	MP-Refrigerent Liquid	1/4"ø-1/4"ø-1/4"ø	1
Nibco CU 1/8" to 8" Tee	MP-Refrigerant Suction	1/2"ø-1/2"ø-1/2"ø	1
Nibco CU 22.5 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	2
Nibco CU 22.5 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2
Nibco CU 22.5 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	2
Nibco CU 30 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2
Nibco CU 30 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	2
Nibco CU 45 Elbow Long Radius	MP-High Pressure Gas	5/8"ø-5/8"ø	8
Nibco CU 45 Elbow Long Radius	MP-Refrigerant Suction	3/4"ø-3/4"ø	3
Nibco CU 45 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	4
Nibco CU 45 Elbow Long Radius	MP-High Pressure Gas	3/4"ø-3/4"ø	1
Nibco CU 45 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	2
Nibco CU 45 Elbow Long Radius	MP-Refrigerent Liquid	1/2"ø-1/2"ø	2
Nibco CU 45 Elbow Long Radius	MP-Refrigerent Liquid	1/4"ø-1/4"ø	3
Nibco CU 45 Elbow Long Radius	MP-Refrigerent Liquid	3/8"ø-3/8"ø	4
Nibco CU 45 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	6
Nibco CU 45 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	2
Nibco CU 45 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	4
Nibco CU 60 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	2
Nibco CU 90 Elbow Close Radius	MP-Condensate Drain	3/4"ø-3/4"ø	1
Nibco CU 90 Elbow Long Radius	MP-Condensate Drain	1 1/2"ø-1 1/2"ø	2
Nibco CU 90 Elbow Long Radius	MP-Condensate Drain	1"ø-1"ø	5
Nibco CU 90 Elbow Long Radius	MP-Condensate Drain	1"ø-3/4"ø	2
Nibco CU 90 Elbow Long Radius	MP-Condensate Drain	2"ø-2"ø	9
Nibco CU 90 Elbow Long Radius	MP-Condensate Drain	3/4"ø-3/4"ø	36
Nibco CU 90 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	5
Nibco CU 90 Elbow Long Radius	MP-High Pressure Gas	3/4"ø-3/4"ø	7
Nibco CU 90 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	5
Nibco CU 90 Elbow Long Radius	MP-Low Pressure Gas	1"ø-1"ø	6
Nibco CU 90 Elbow Long Radius	MP-Refrigerent Liquid	1/2"ø-1/2"ø	5
Nibco CU 90 Elbow Long Radius	MP-Refrigerent Liquid	1/4"ø-1/4"ø	24
Nibco CU 90 Elbow Long Radius	MP-Refrigerent Liquid	3/8"ø-3/8"ø	40
Nibco CU 90 Elbow Long Radius	MP-Refrigerent Liquid	5/8"ø-5/8"ø	9
Nibco CU 90 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	22
Nibco CU 90 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	34
Nibco CU Reducing Coupling	MP-Condensate Drain	1 1/2"ø-1"ø	2
Nibco CU Reducing Coupling	MP-Condensate Drain	1 1/2"ø-3/4"ø	2
Nibco CU Reducing Coupling	MP-Condensate Drain	1"ø-3/4"ø	4
Nibco CU Reducing Coupling	MP-Condensate Drain	2"ø-1 1/2"ø	2
Nibco CU Reducing Coupling	MP-Condensate Drain	2"ø-1"ø	1
Nibco CU Reducing Coupling	MP-Condensate Drain	2"ø-3/4"ø	2
Nibco CU Reducing Coupling	MP-High Pressure Gas	1"ø-3/4"ø	2
Nibco CU Reducing Coupling	MP-Low Pressure Gas	1 1/2"ø-1"ø	2
Nibco CU Reducing Coupling	MP-Refrigerent Liquid	5/8"ø-1/2"ø	1
Grand total: 297			

LEGENDS		ABBREVIATIONS	
REFRIGERANT SUCTION	RS	REFRIGERENT SUCTION	
REFRIGERANT LIQUID	RL	REFRIGERENT LIQUID	
LOW PRESSURE GAS	LPG	LOW PRESSURE GAS	
HIGH PRESSURE GAS	HPG	HIGH PRESSURE GAS	
MP CONDENSATE DRAIN	CD	MP CONDENSATE DRAIN	
COMBUSTION AIR	CA	COMBUSTION AIR	
NATURAL GAS	NG	NATURAL GAS	

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/22/2023 8:11:09 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.22.2023

SHEET NAME: LEVEL 05 MECHANICAL PIPING LAYOUT - OVERALL

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MP501

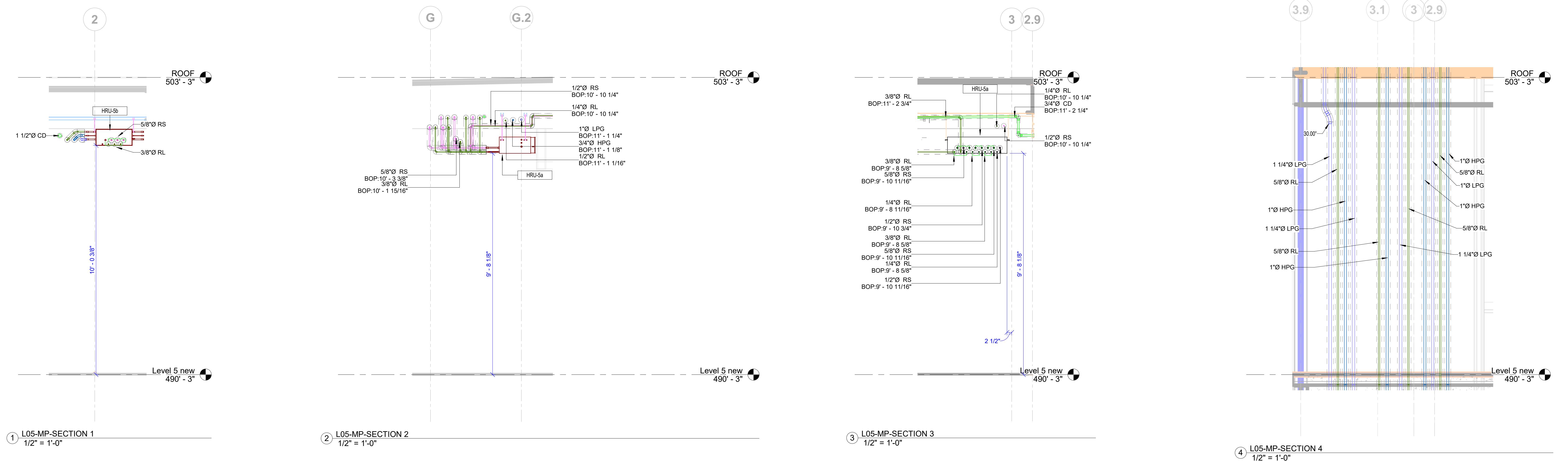


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MECHANICAL SHOP DRAWINGS



GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

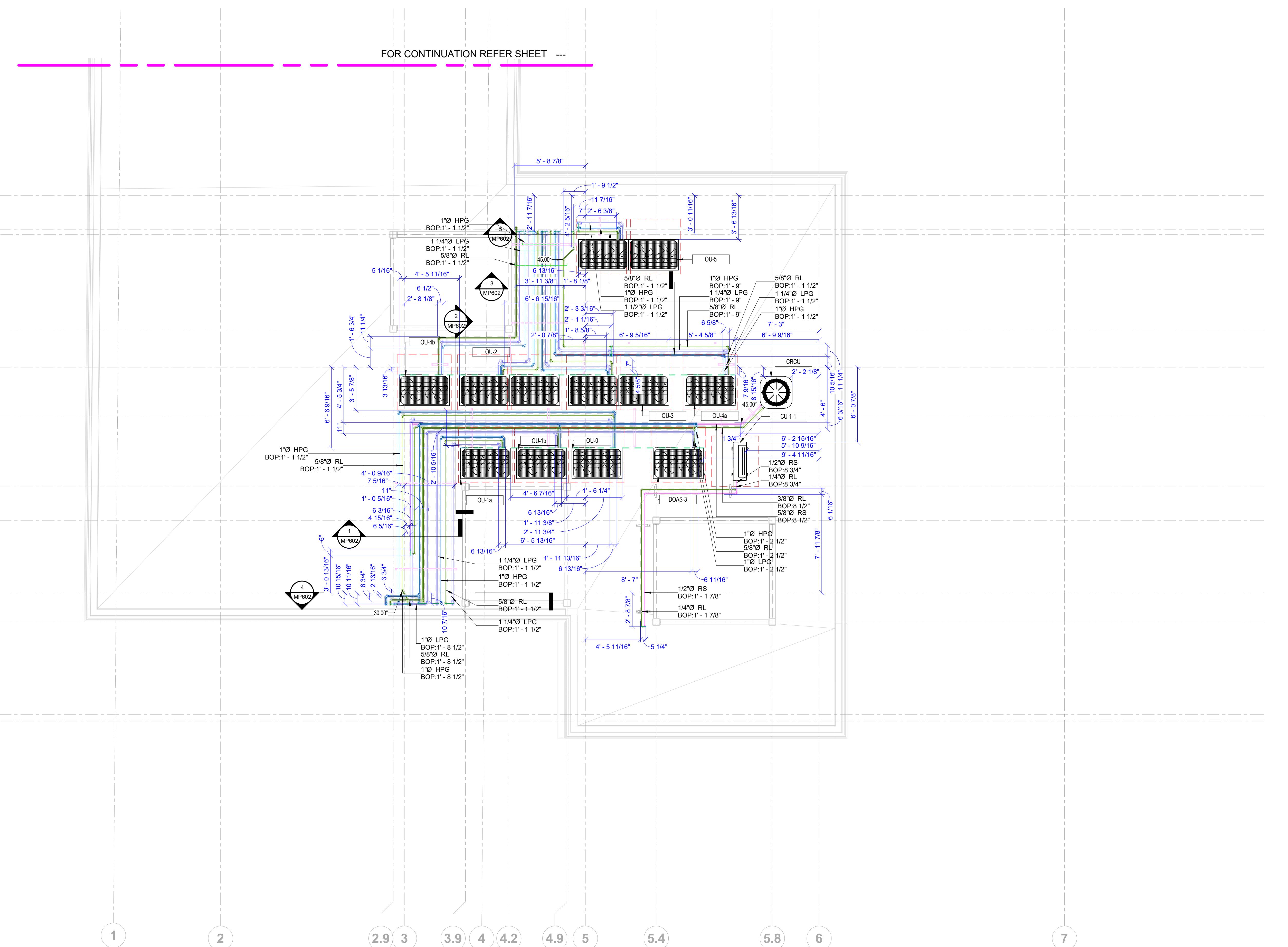
MP502

SHEET NAME:
LEVEL 05 MECHANICAL PIPING -
SECTIONS

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:



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① ROOF MECHANICAL PIPING LAYOUT - AREA B
1/4" = 1'-0"

ROOF PIPE SCHEDULE			
System Type	Type	Size	Length(Feet)
MP-High Pressure Gas	Pipe Types: COPPER	1"ø	209.7
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"ø	36.3
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"ø	136.4
MP-Low Pressure Gas	Pipe Types: COPPER	1"ø	40.5
MP-Refrigerant Liquid	Pipe Types: COPPER	1/4"ø	20.6
MP-Refrigerant Liquid	Pipe Types: COPPER	3/4"ø	32.2
MP-Refrigerant Liquid	Pipe Types: COPPER	3/8"ø	71.3
MP-Refrigerant Liquid	Pipe Types: COPPER	5/8"ø	173.3
MP-Refrigerant Suction	Pipe Types: COPPER	1/2"ø	20.3
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"ø	71.0
			811.7

ROOF PIPE FITTINGS SCHEDULE			
Type	System Type	Size	Count
Nibco CU_30 Elbow Long Radius	MP-Refrigerant Liquid	5/8"ø-5/8"ø	2
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Liquid	3/8"ø-3/8"ø	1
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Liquid	5/8"ø-5/8"ø	2
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	1
Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	32
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	8
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/4"ø-1 1/4"ø	18
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1"ø-1"ø	5
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	1/4"ø-1/4"ø	4
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	3/4"ø-3/4"ø	6
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	3/8"ø-3/8"ø	3
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	26
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	4
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	2

ROOF MECHANICAL PIPING EQUIPMENT SCHEDULE	
Type	Count
CRCU	1
CU-1-1	1
DOAS-3	1
OU-0	1
OU-1a	1
OU-1b	1
OU-2	2
OU-3	2
OU-4a	1
OU-4b	1
OU-5	2
Grand total: 14	

114

SHEET NAME:
ROOF MECHANICAL PIPING LAYOUT
- AREA B

GENERAL NOTES

- ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
- ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
- ALL DIMENSIONS ARE FROM PIPE INSULATION

SHEET SIZE: ARCH E1 (42 X 30 INCHES)

SHEET NUMBER:

MP601.2

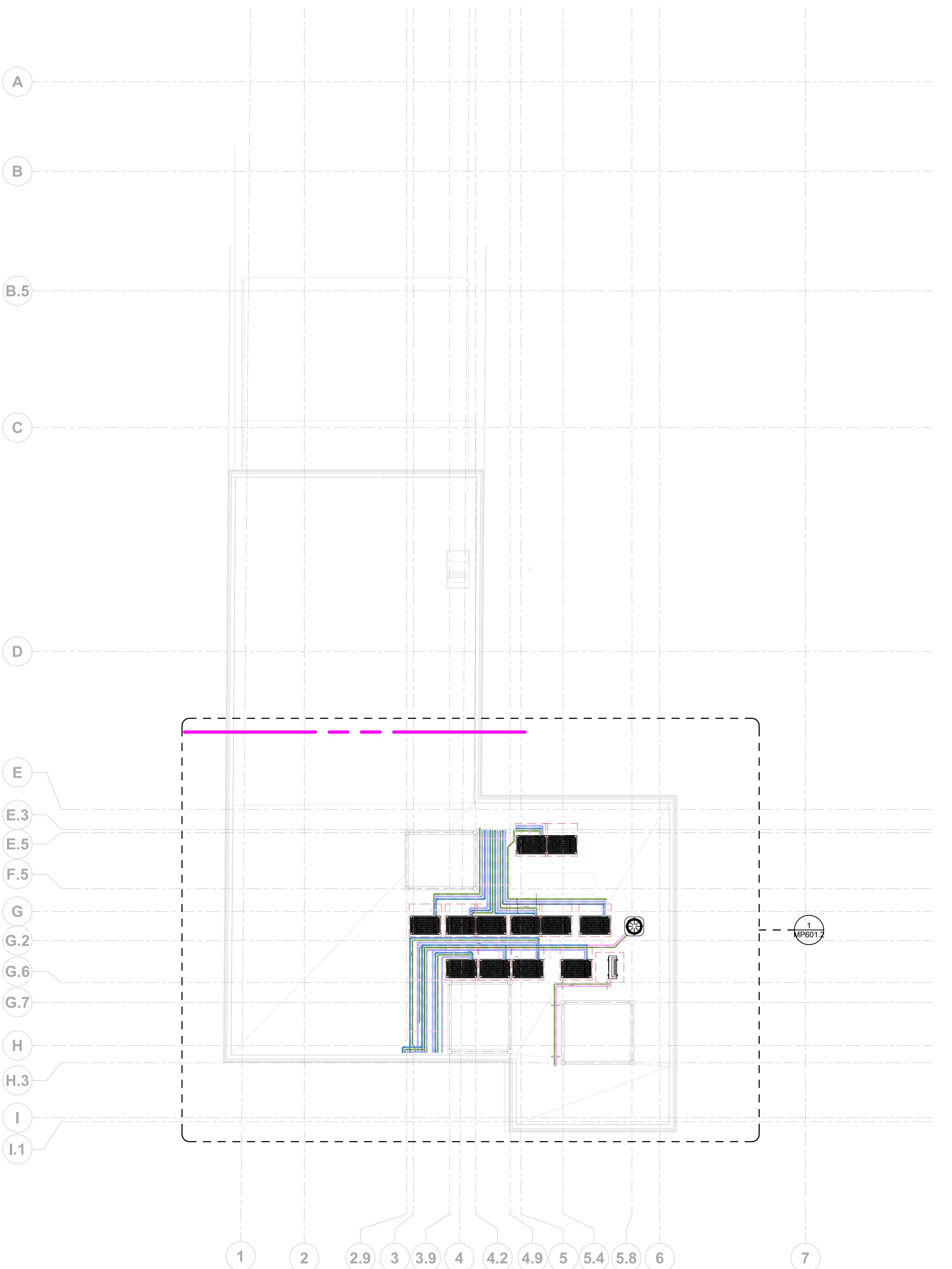


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① ROOF MECHANICAL PIPING LAYOUT - OVERALL
1/8" = 1'-0"

ROOF PIPE SCHEDULE			
System Type	Type	Size	Length(Feet)
MP-High Pressure Gas	Pipe Types: COPPER	1"ø	209.7
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/2"ø	36.3
MP-Low Pressure Gas	Pipe Types: COPPER	1 1/4"ø	136.4
MP-Low Pressure Gas	Pipe Types: COPPER	1"ø	40.5
MP-Refrigerant Liquid	Pipe Types: COPPER	1/4"ø	20.6
MP-Refrigerant Liquid	Pipe Types: COPPER	3/4"ø	32.2
MP-Refrigerant Liquid	Pipe Types: COPPER	3/8"ø	71.3
MP-Refrigerant Liquid	Pipe Types: COPPER	5/8"ø	173.3
MP-Refrigerant Suction	Pipe Types: COPPER	1/2"ø	20.3
MP-Refrigerant Suction	Pipe Types: COPPER	5/8"ø	71.0

811.7

ROOF PIPE FITTINGS SCHEDULE			
Type	System Type	Size	Count
Nibco CU_30 Elbow Long Radius	MP-Refrigerant Liquid	5/8"ø-5/8"ø	2
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Liquid	3/8"ø-3/8"ø	1
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Liquid	5/8"ø-5/8"ø	2
Nibco CU_45 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	1
Nibco CU_90 Elbow Long Radius	MP-High Pressure Gas	1"ø-1"ø	32
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/2"ø-1 1/2"ø	8
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1 1/4"ø-1 1/4"ø	18
Nibco CU_90 Elbow Long Radius	MP-Low Pressure Gas	1"ø-1"ø	5
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	1/4"ø-1/4"ø	4
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	3/4"ø-3/4"ø	6
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	3/8"ø-3/8"ø	3
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Liquid	5/8"ø-5/8"ø	26
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	1/2"ø-1/2"ø	4
Nibco CU_90 Elbow Long Radius	MP-Refrigerant Suction	5/8"ø-5/8"ø	2

114

ROOF MECHANICAL PIPING EQUIPMENT SCHEDULE	
Type	Count
CRCU	1
CU-1-1	1
DOAS-3	1
OU-0	1
OU-1a	1
OU-1b	1
OU-2	2
OU-3	2
OU-4a	1
OU-4b	1
OU-5	2

Grand total: 14

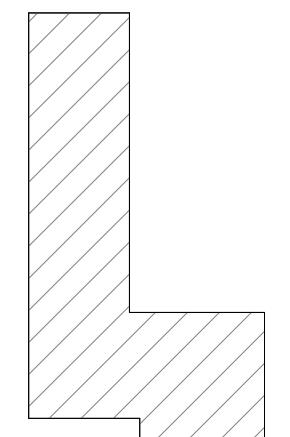
LEGENDS		ABBREVIATIONS	
■	REFRIGERANT SUCTION	■	REFRIGERANT SUCTION
■	REFRIGERANT LIQUID	■	REFRIGERANT LIQUID
■	LOW PRESSURE GAS	■	LOW PRESSURE GAS
■	HIGH PRESSURE GAS	■	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN	■	MP CONDENSATE DRAIN
■	COMBUSTION AIR	■	COMBUSTION AIR
■	NATURAL GAS	■	NATURAL GAS

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MECHANICAL SHOP DRAWINGS

KEY PLAN



PROJECT NORTH

PRINTED DATE: 11/23/2023 3:21:36 PM

REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.23.2023

SHEET NAME:
ROOF MECHANICAL PIPING LAYOUT
- OVERALL

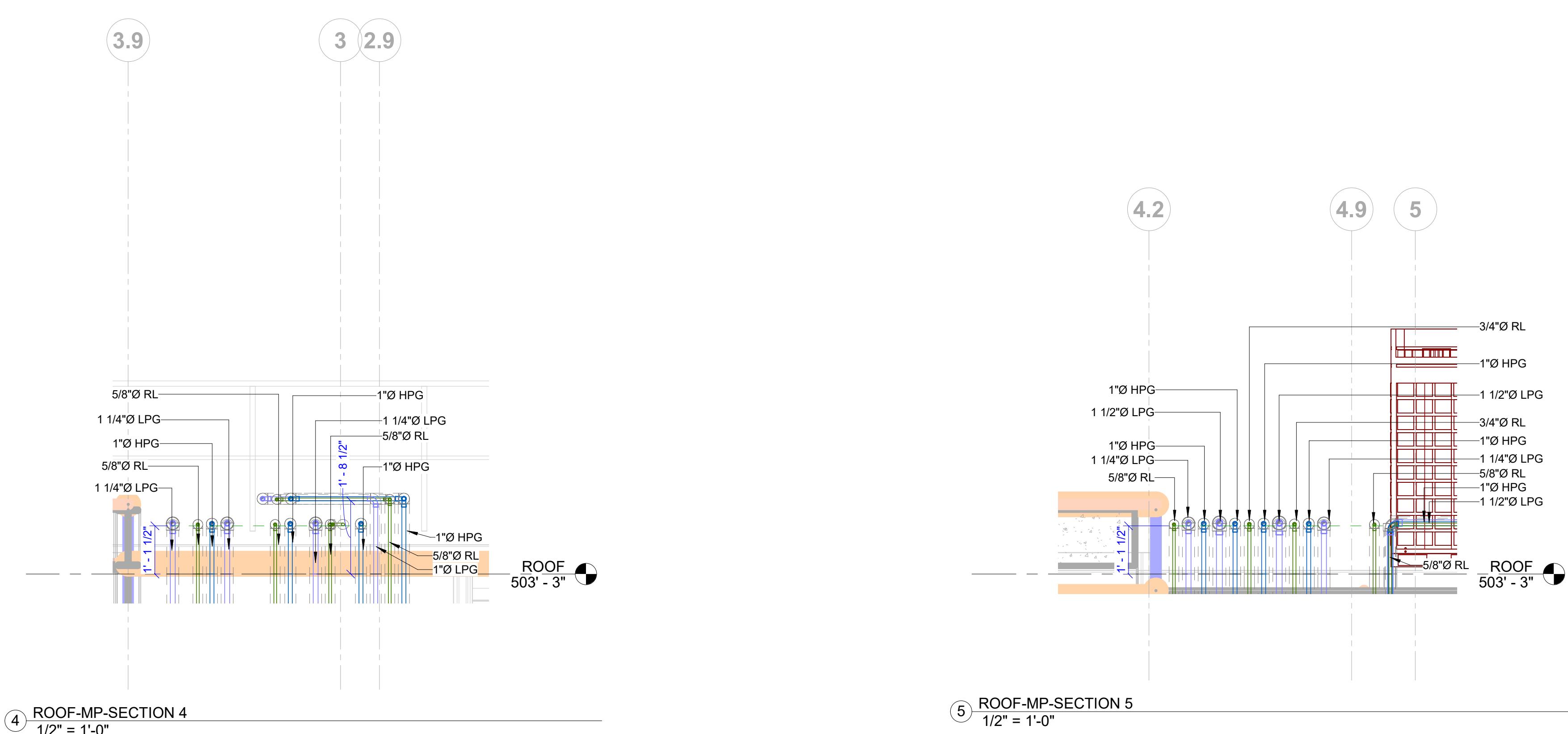
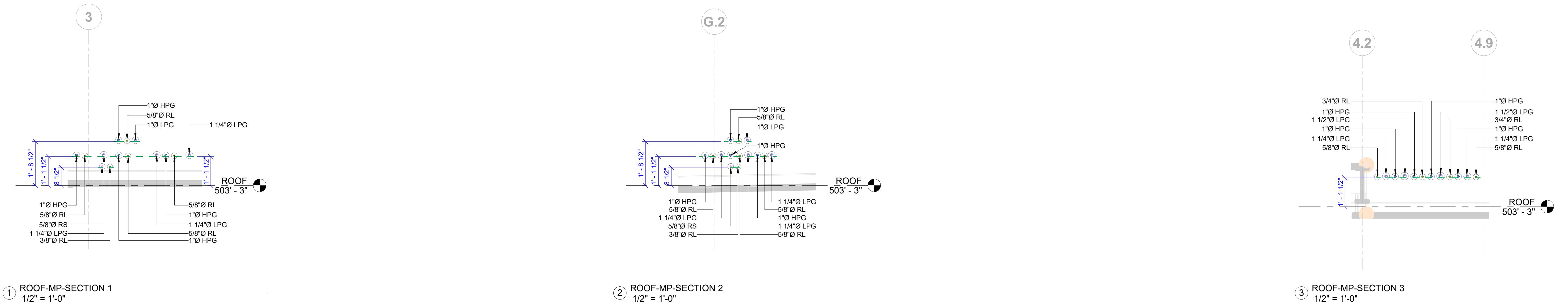
SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MP601

GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION



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LEGENDS	
■	REFRIGERANT SUCTION
■	REFRIGERANT LIQUID
■	LOW PRESSURE GAS
■	HIGH PRESSURE GAS
■	MP CONDENSATE DRAIN
■	COMBUSTION AIR
■	NATURAL GAS

ABBREVIATIONS	
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
LPG	LOW PRESSURE GAS
HPG	HIGH PRESSURE GAS
CD	MP CONDENSATE DRAIN
CA	COMBUSTION AIR
NG	NATURAL GAS

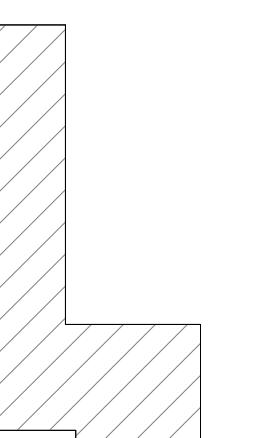
GENERAL NOTES
1. ALL DIMENSIONS ARE IN FEET AND FRACTIONAL INCHES
2. ALL DIMENSIONS ARE GIVEN FROM THE NEAREST COLUMN GRID
3. ALL DIMENSIONS ARE FROM PIPE INSULATION

405 BROADWAY T1

Nashville, TN

MECHANICAL SHOP DRAWINGS

KEY PLAN



PROJECT NORTH

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REVISIONS:

Revision Schedule

Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.23.2023

SHEET NAME:
ROOF MECHANICAL PIPING -
SECTIONS

SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MP602

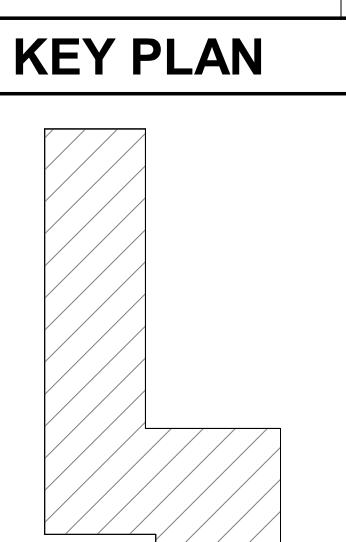
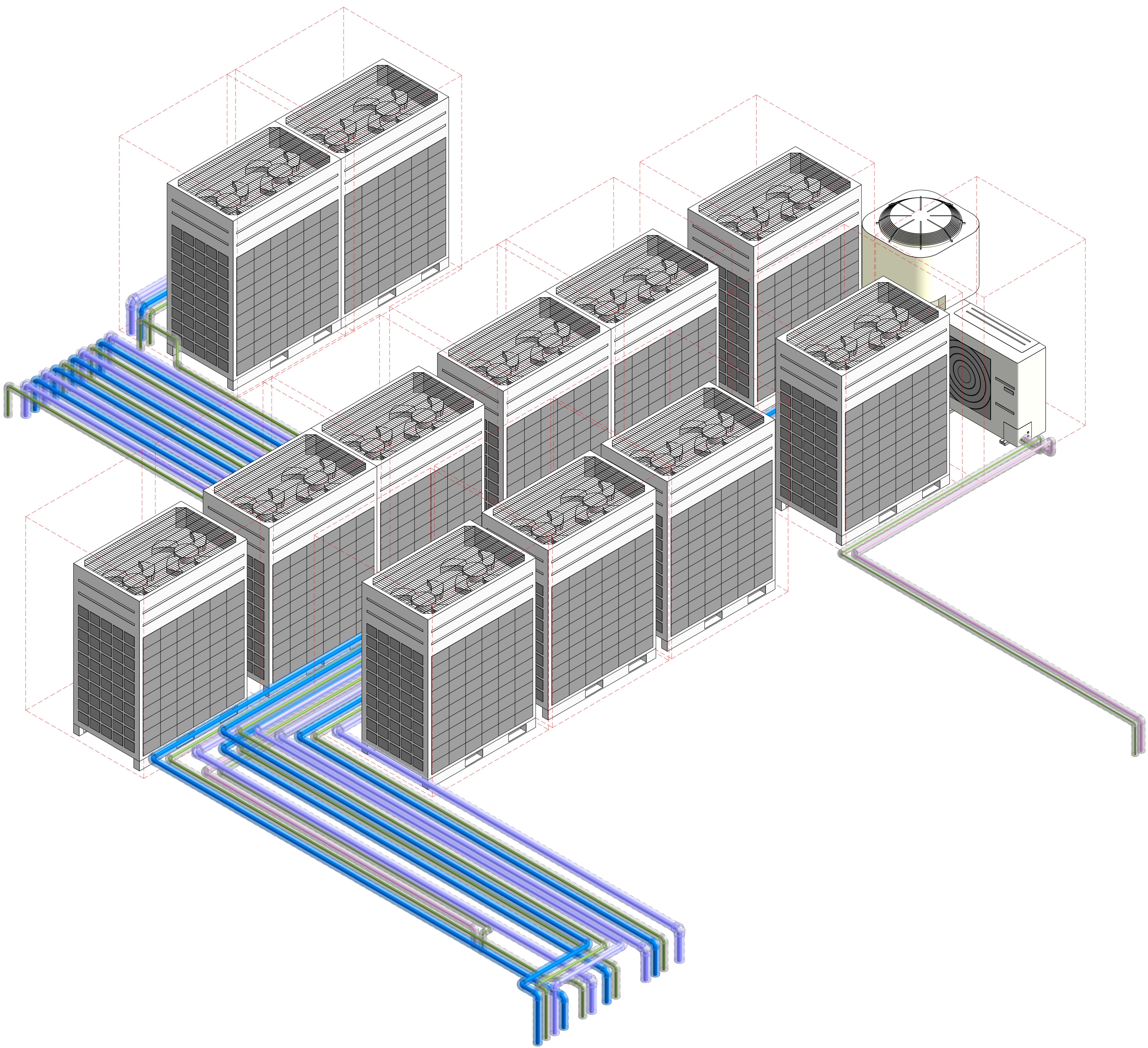


V-Construct Pvt. Ltd. SEZ Unit 1
5th Floor (PN), Level 05, Tower B1, Margarpatta Township
Development & Construction Company Ltd. IT & ITES,
Special Economic Zone, Margarpatta City, Hadapsar Pune
411013, India
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405 BROADWAY T1

Nashville, TN

MECHANICAL SHOP DRAWINGS



PROJECT NORTH

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REVISIONS:

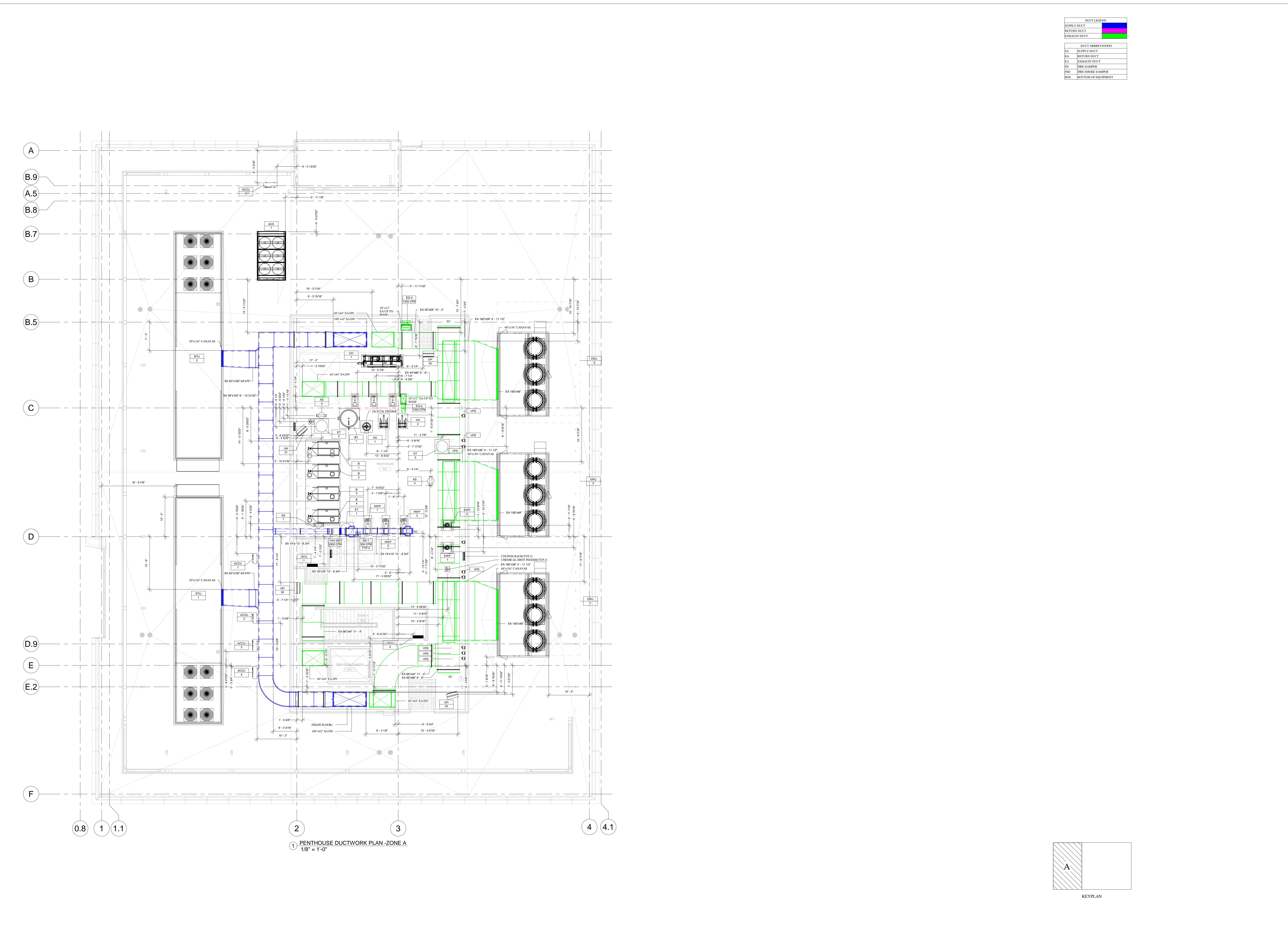
Revision Schedule

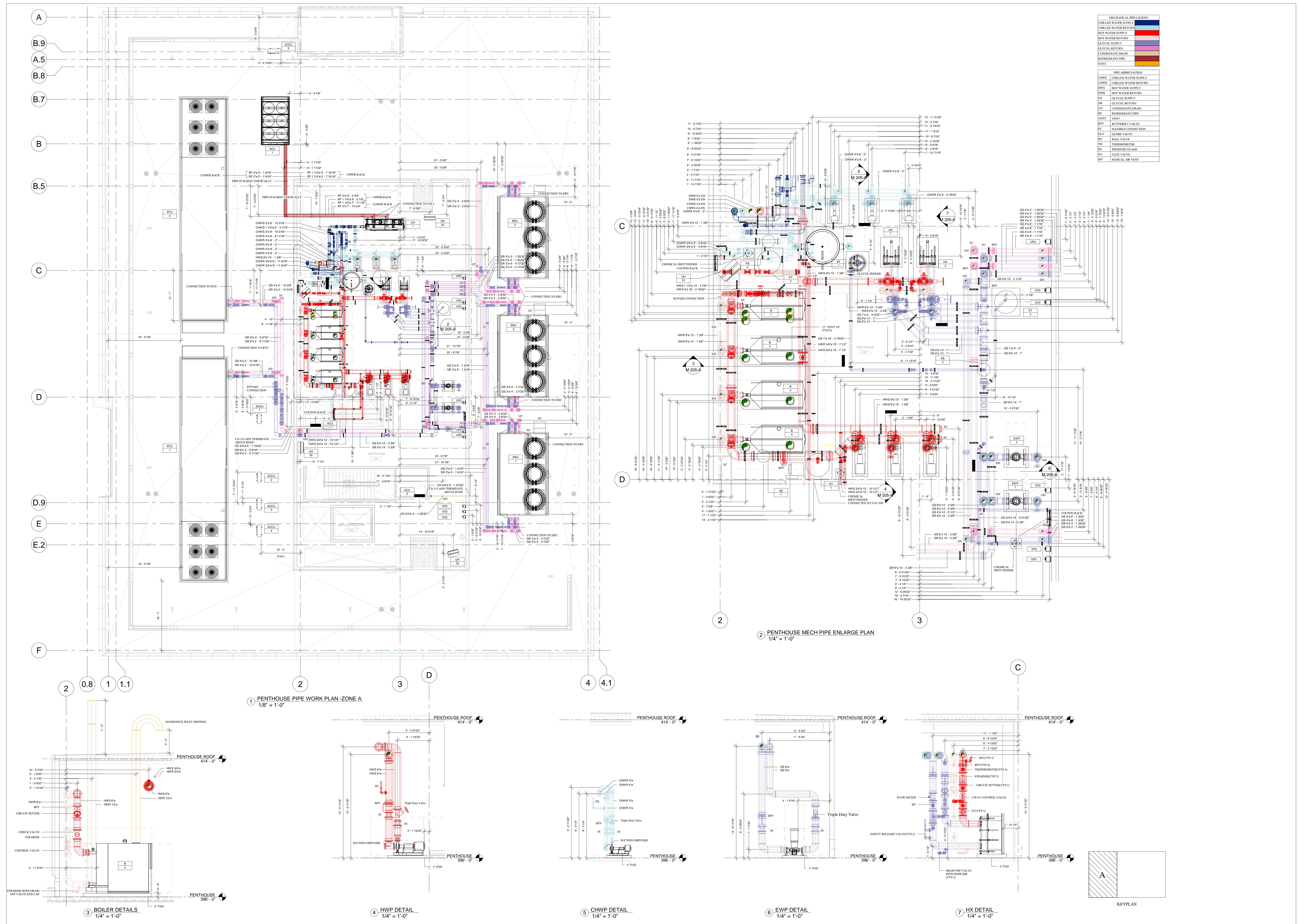
Revision Number	Revision Description	Revision Date
R0	For Design Review	10.18.2023
R1	For Installation	11.23.2023

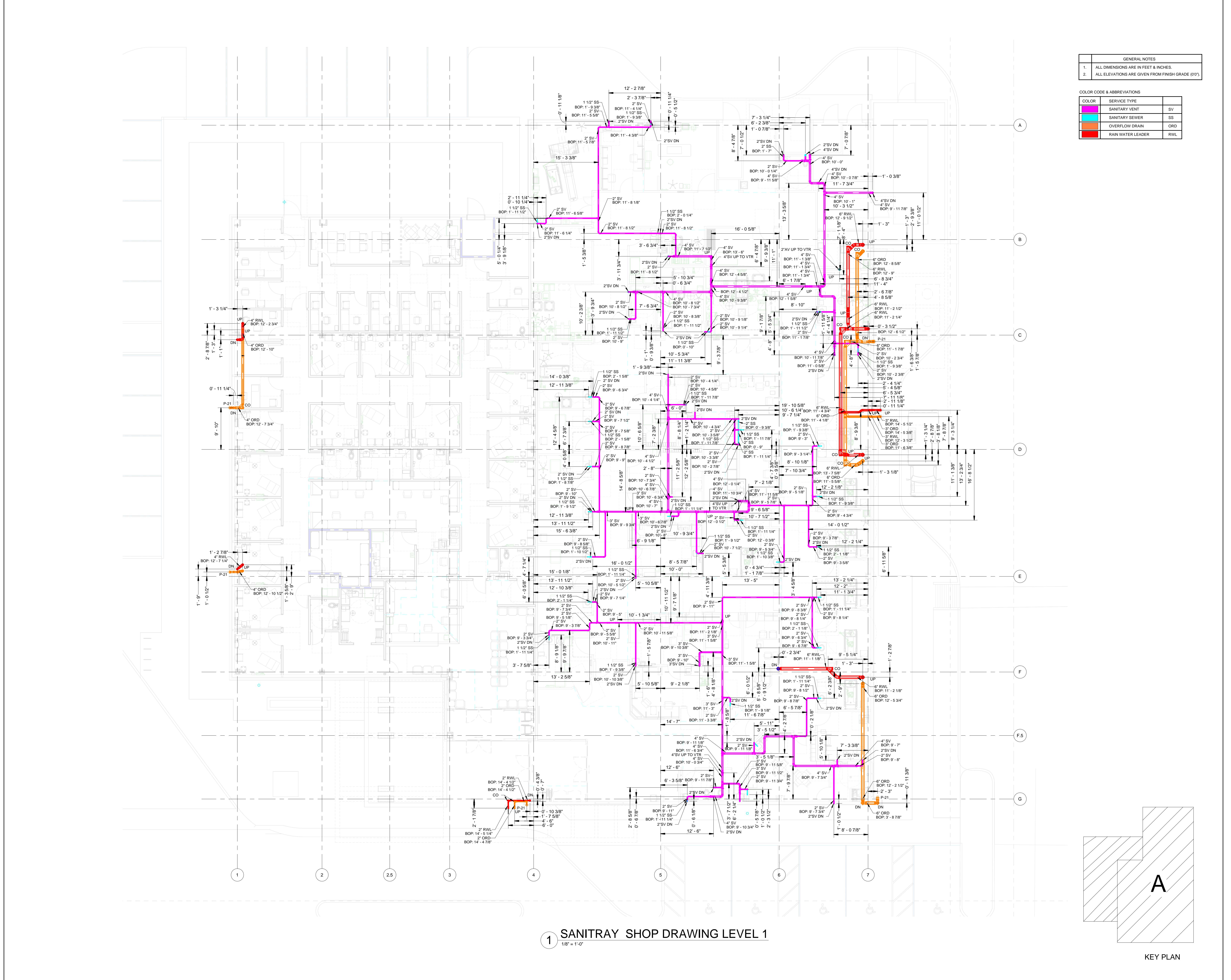
SHEET NAME:
ROOF MECHANICAL PIPING
ISOMETRIC - OVERALL

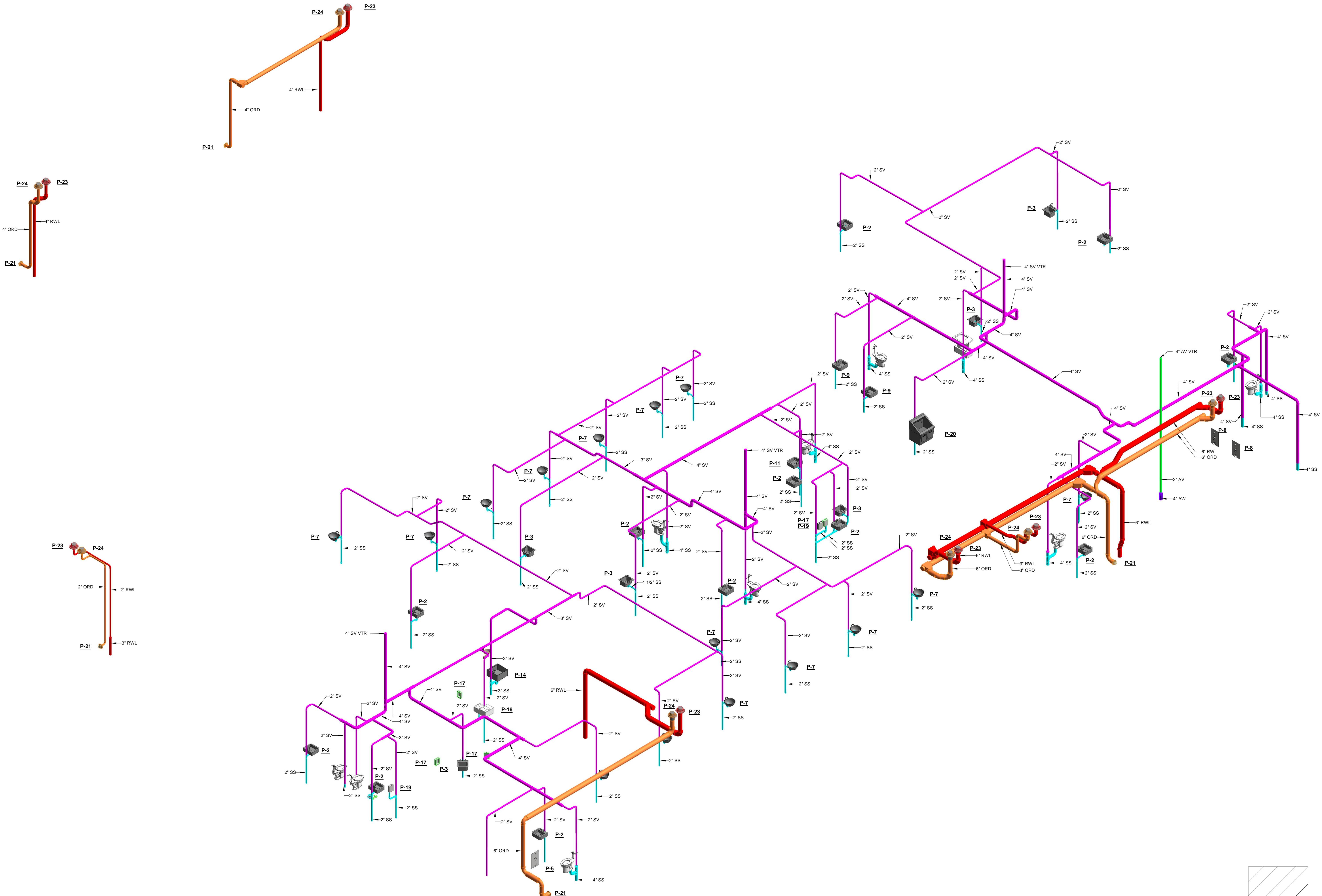
SHEET SIZE: ARCH E1 (42 X 30 INCHES)
SHEET NUMBER:

MP605





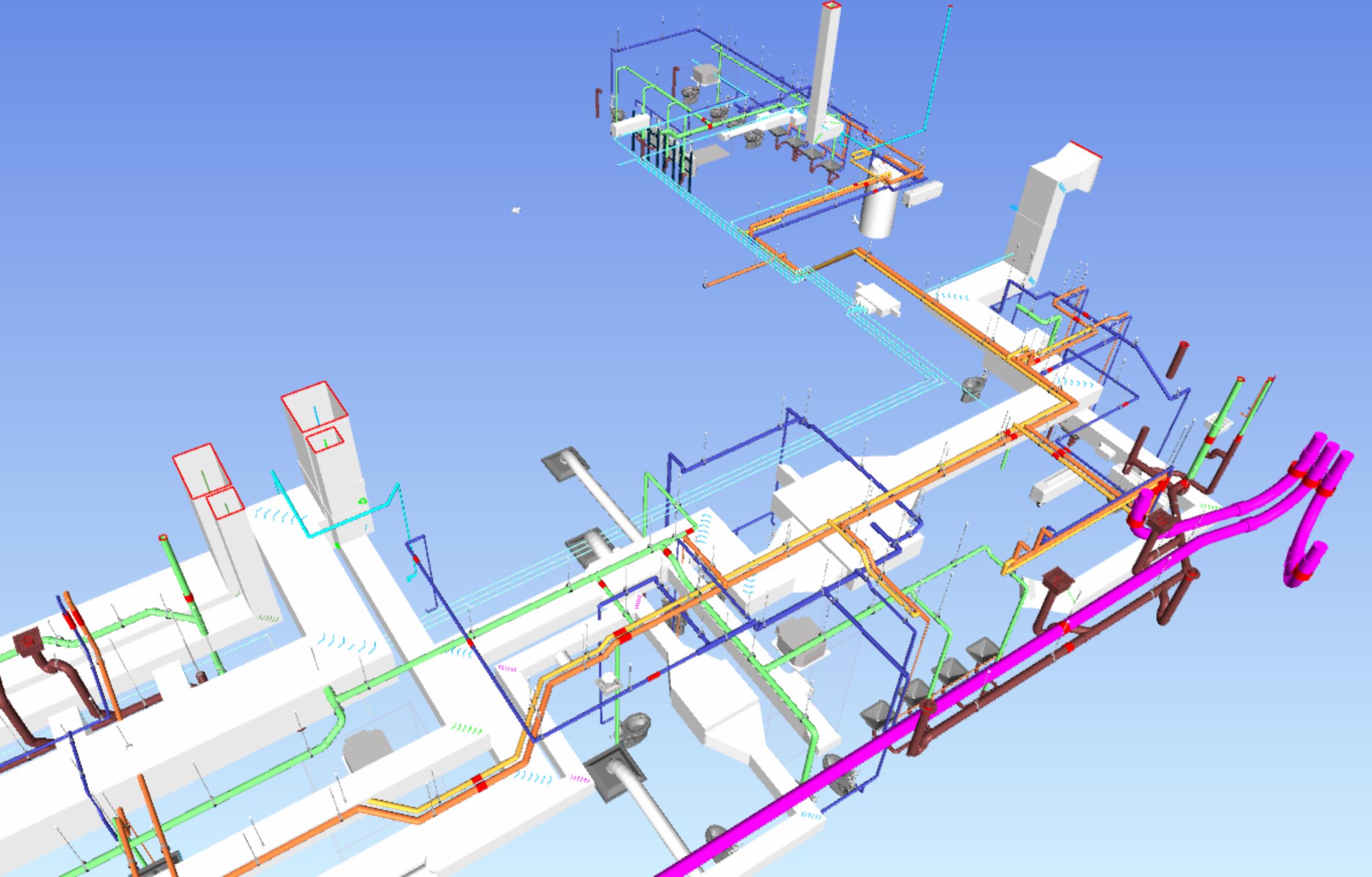


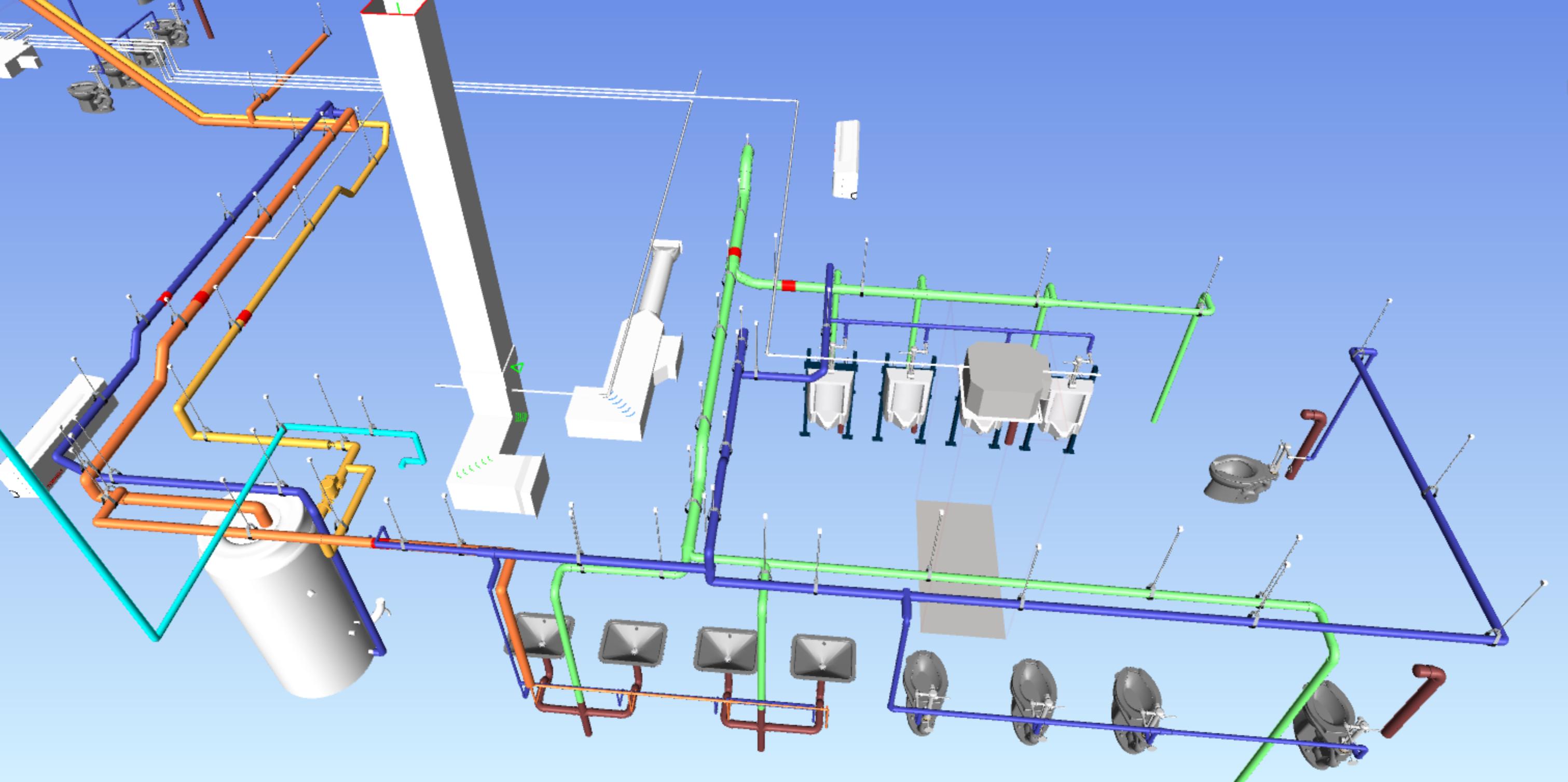


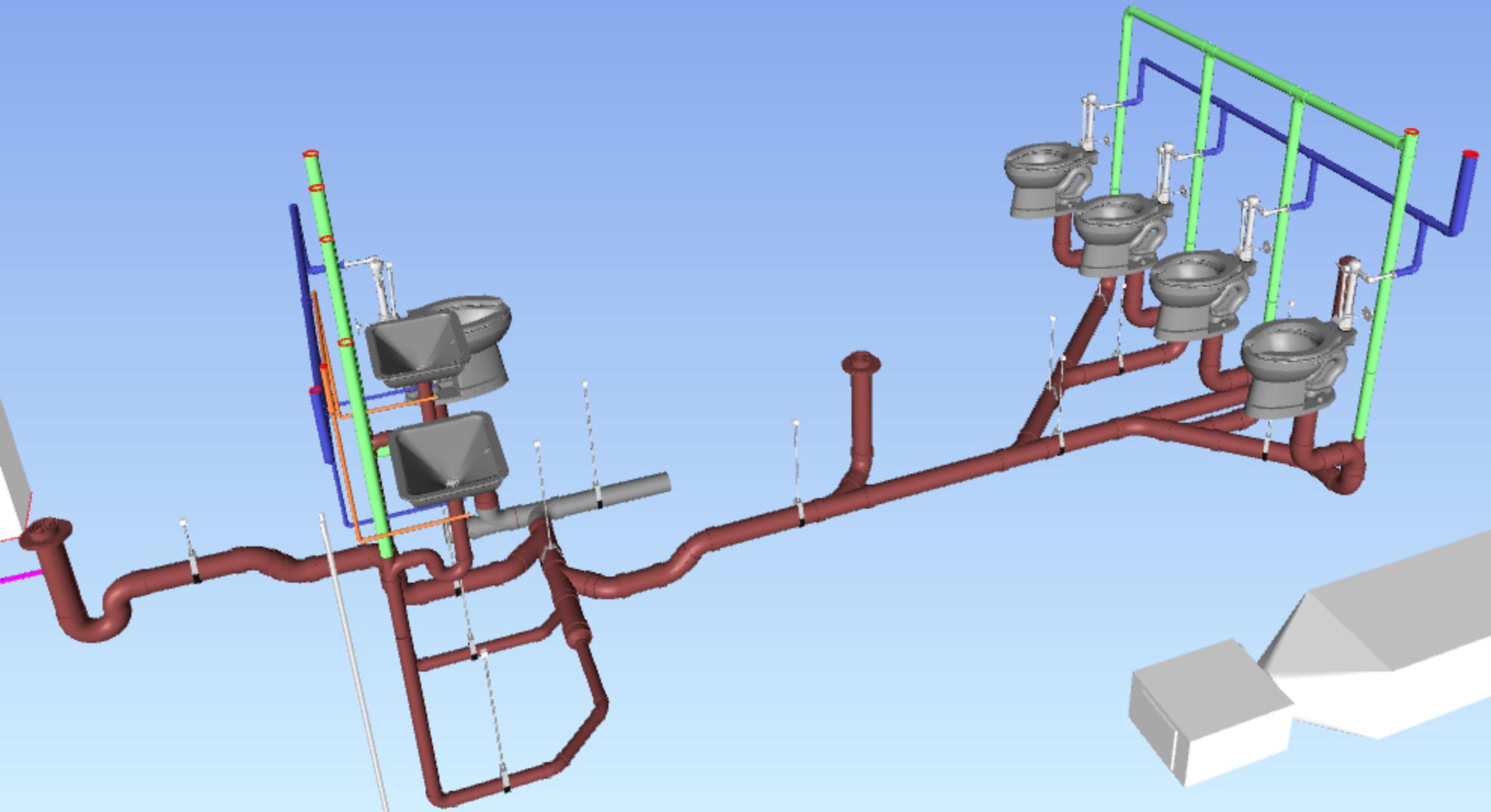
1 SANITRAY ISOMETRIC DRAWING LEVEL 1

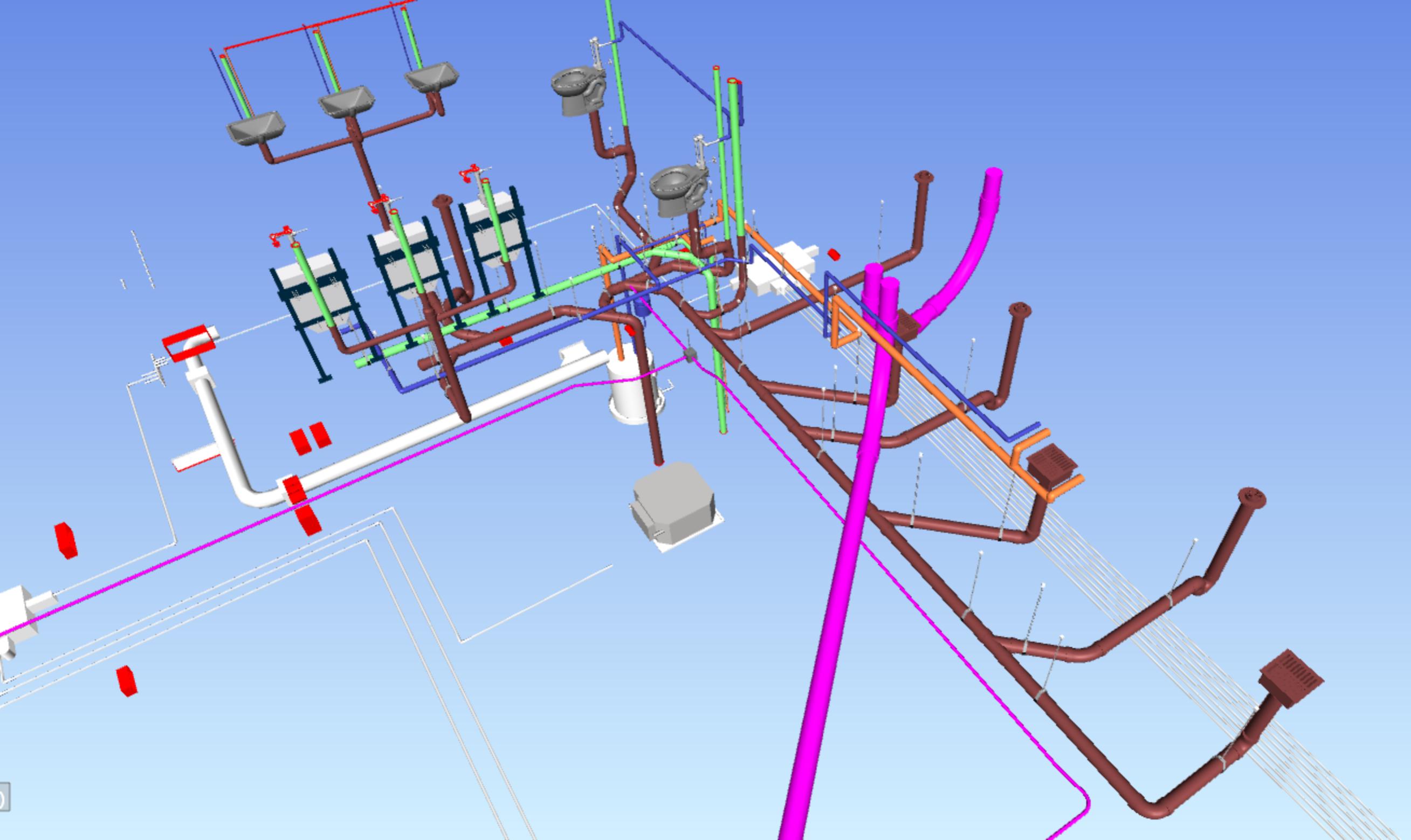
COLOR CODE & ABBREVIATIONS		
COLOR	SERVICE TYPE	
	SANITARY VENT	SV
	SANITARY SEWER	SS
	OVERFLOW DRAIN	OR
	RAIN WATER LEADER	RWL

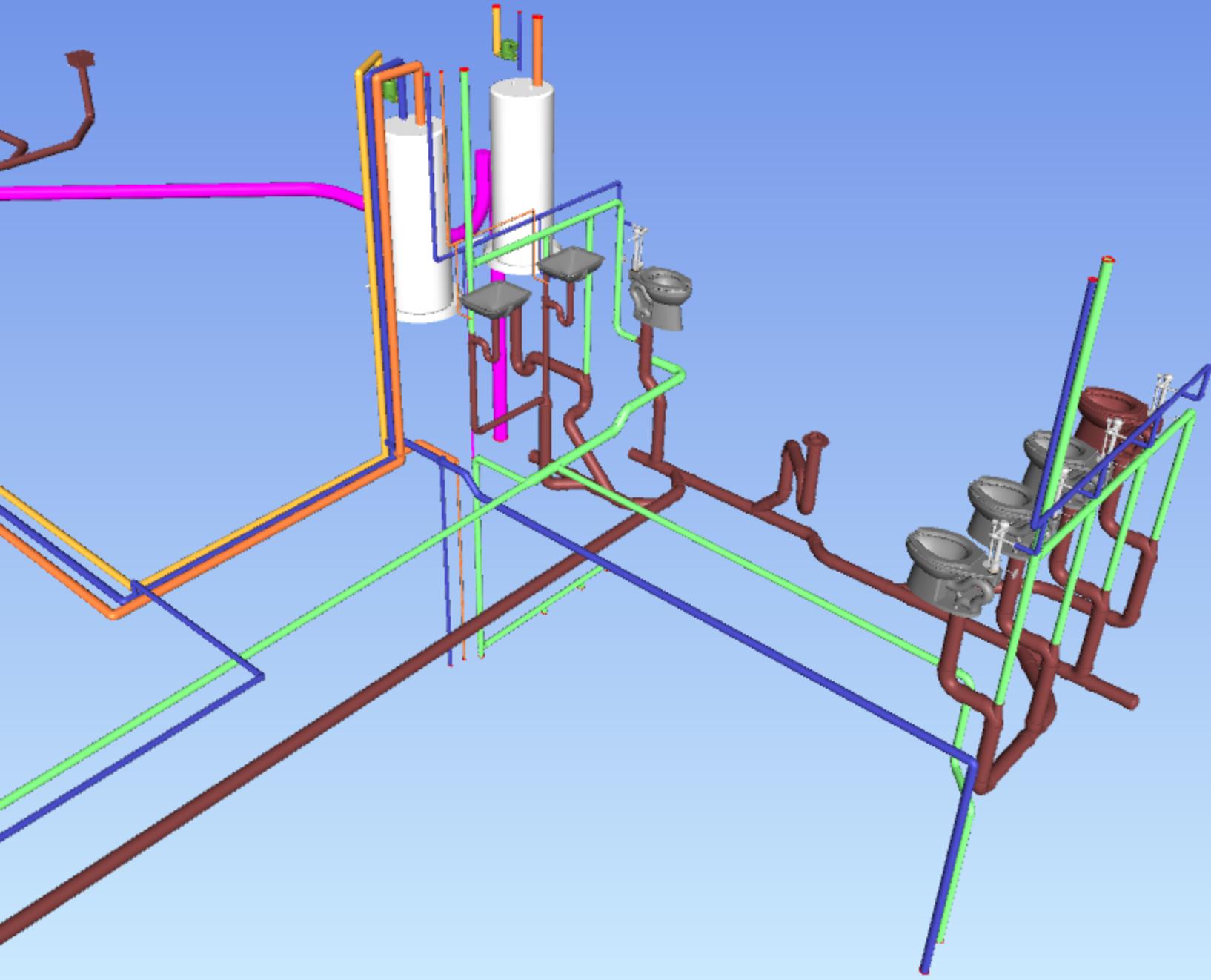
KEY PLAN

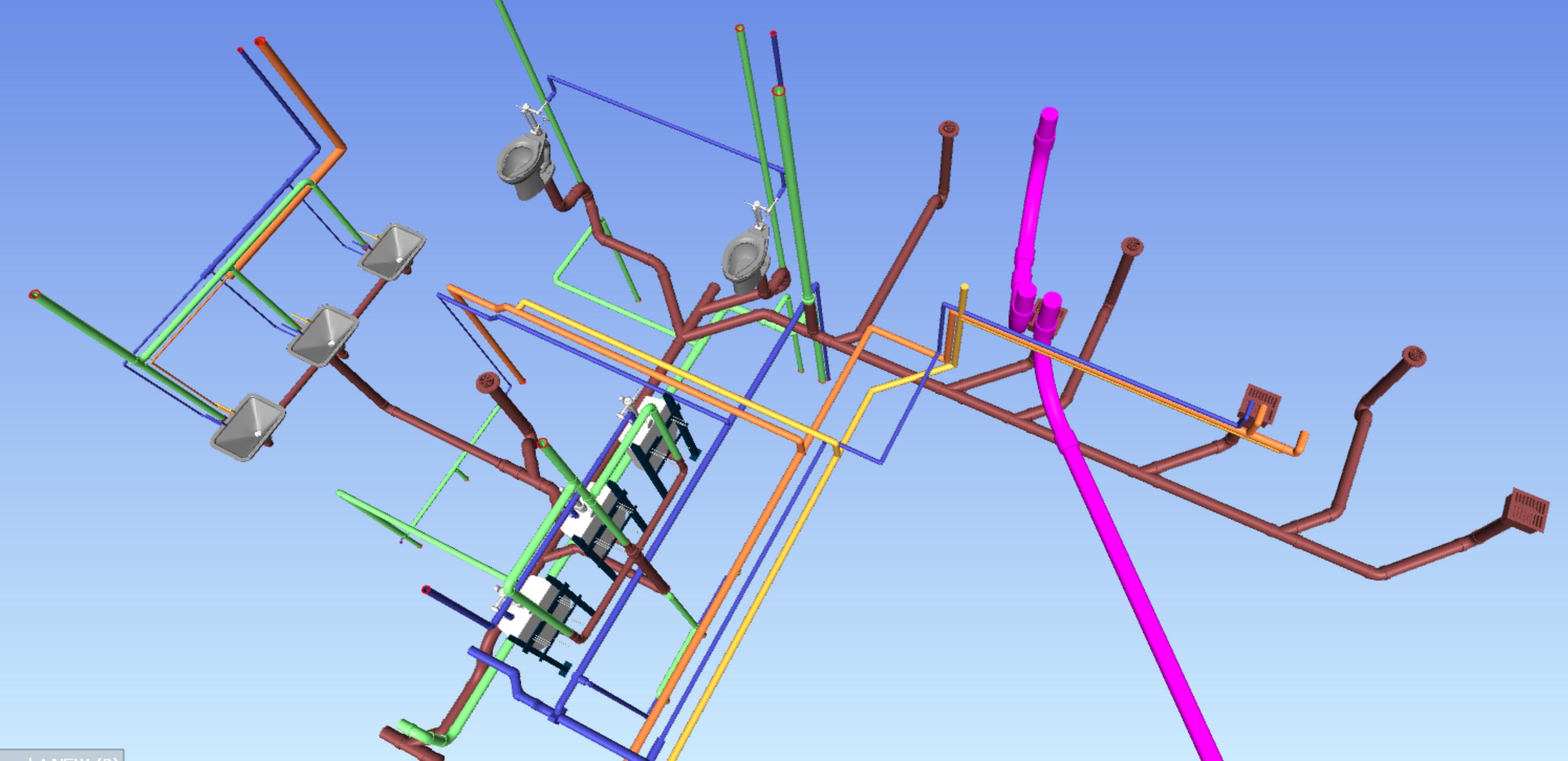


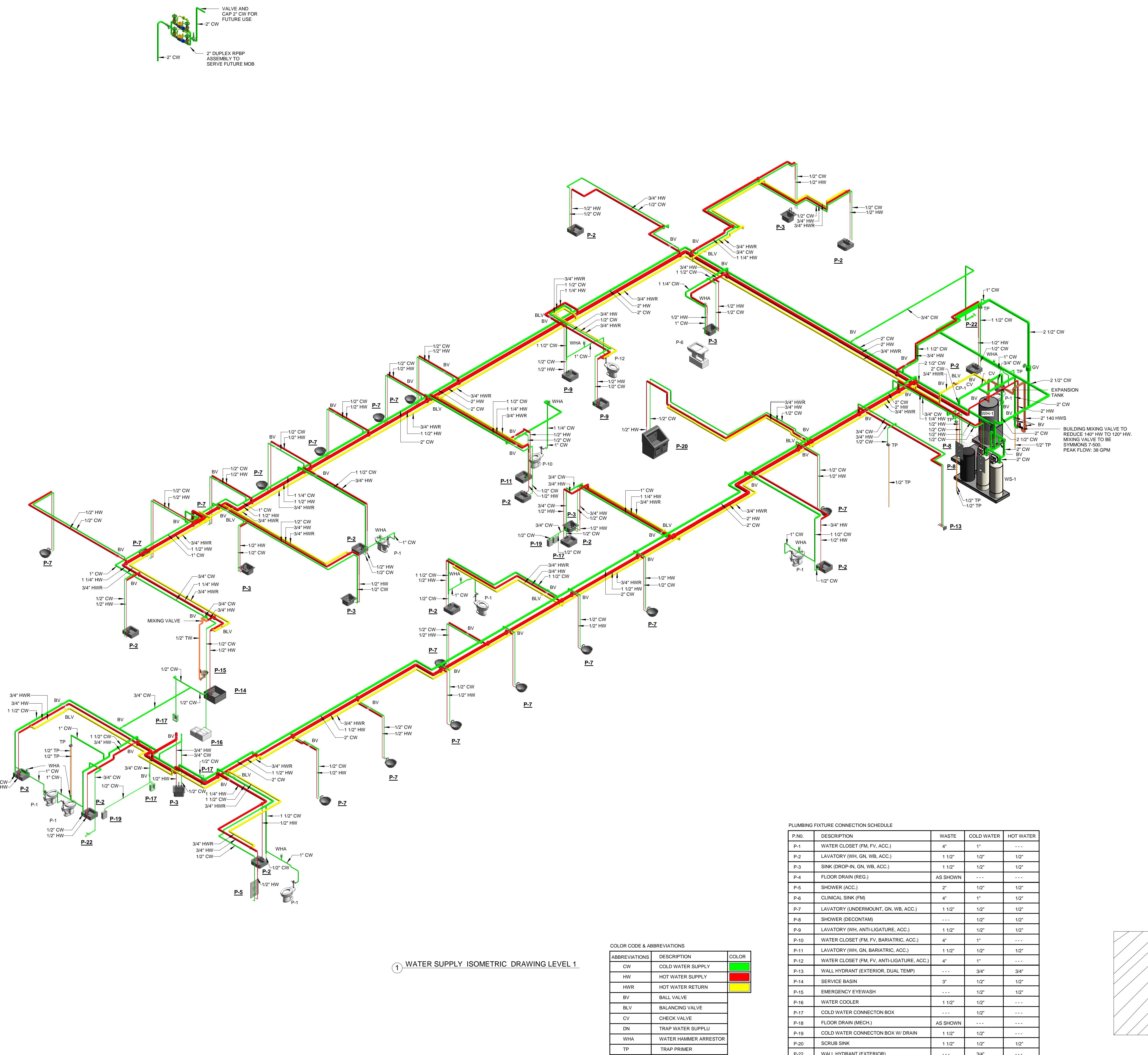










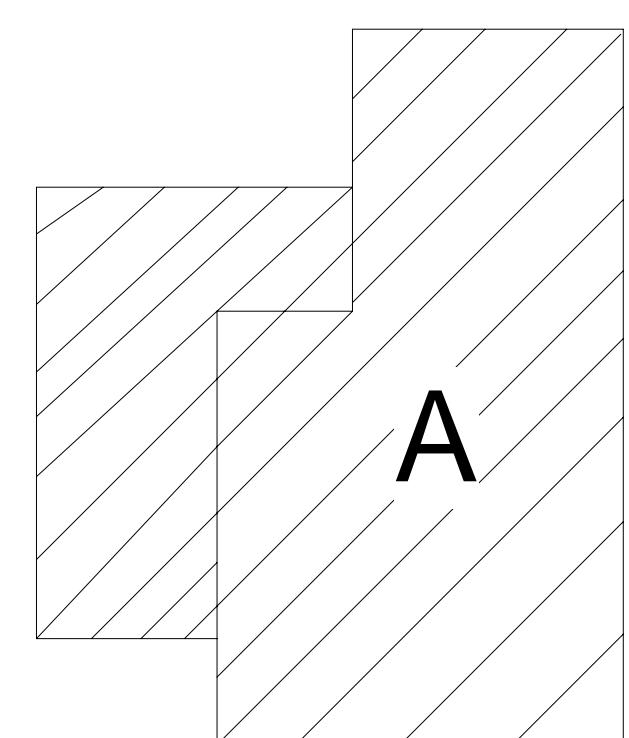


WATER SUPPLY ISOMETRIC DRAWING LEVEL 1

COLOR CODE & ABBREVIATIONS		
ABBREVIATIONS	DESCRIPTION	COLOR
CW	COLD WATER SUPPLY	
HW	HOT WATER SUPPLY	
HWR	HOT WATER RETURN	
BV	BALL VALVE	
BLV	BALANCING VALVE	
CV	CHECK VALVE	
DN	TRAP WATER SUPPLU	
WHA	WATER HAMMER ARRESTOR	
TP	TRAP PRIMER	

PLUMBING FIXTURE CONNECTION SCHEDULE

P.NO.	DESCRIPTION	WASTE	COLD WATER	HOT WATER
P-1	WATER CLOSET (FM, FV, ACC.)	4"	1"	---
P-2	LAVATORY (WH, GN, WB, ACC.)	1 1/2"	1/2"	1/2"
P-3	SINK (DROP-IN, GN, WB, ACC.)	1 1/2"	1/2"	1/2"
P-4	FLOOR DRAIN (REG.)	AS SHOWN	---	---
P-5	SHOWER (ACC.)	2"	1/2"	1/2"
P-6	CLINICAL SINK (FM)	4"	1"	1/2"
P-7	LAVATORY (UNDERMOUNT, GN, WB, ACC.)	1 1/2"	1/2"	1/2"
P-8	SHOWER (DECONTAM)	---	1/2"	1/2"
P-9	LAVATORY (WH, ANTI-LIGATURE, ACC.)	1 1/2"	1/2"	1/2"
P-10	WATER CLOSET (FM, FV, BARIATRIC, ACC.)	4"	1"	---
P-11	LAVATORY (WH, GN, BARIATRIC, ACC.)	1 1/2"	1/2"	1/2"
P-12	WATER CLOSET (FM, FV, ANTI-LIGATURE, ACC.)	4"	1"	---
P-13	WALL HYDRANT (EXTERIOR, DUAL TEMP)	---	3/4"	3/4"
P-14	SERVICE BASIN	3"	1/2"	1/2"
P-15	EMERGENCY EYEWASH	---	1/2"	1/2"
P-16	WATER COOLER	1 1/2"	1/2"	---
P-17	COLD WATER CONNECTON BOX	---	1/2"	---
P-18	FLOOR DRAIN (MECH.)	AS SHOWN	---	---
P-19	COLD WATER CONNECTON BOX W/ DRAIN	1 1/2"	1/2"	---
P-20	SCRUB SINK	1 1/2"	1/2"	1/2"
P-22	WALL HYDRANT (EXTERIOR)	---	3/4"	---



KEY PLAN

