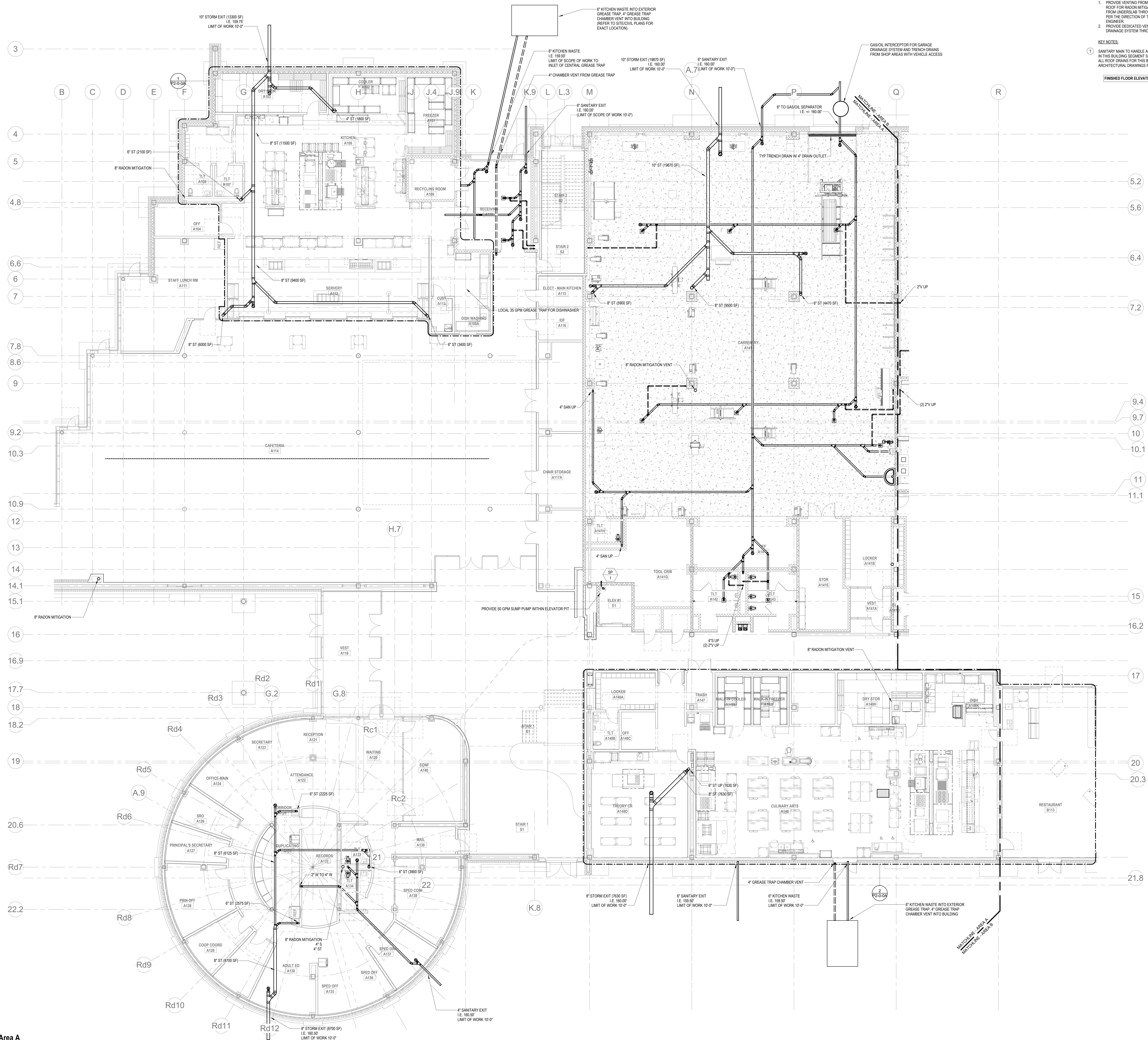
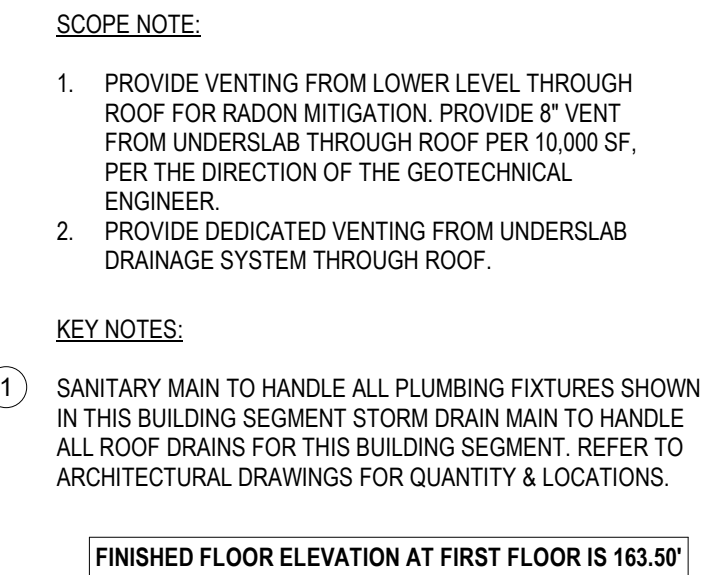


DRAWING NUMBER	DRAWING TITLE	05-9-2021 SCHEMATIC DESIGN	06-20-2022 DESIGN DEVELOPMENT COST ESTIMATE SET	08-04-2022 MSHA DESIGN DEVELOPMENT	12-21-2022 60% CONSTRUCTION DOCUMENTS COST ESTIMATES SET	12-29-2022 EARLY SITE PREPARATION CONTRACT DOCUMENTS	01-13-2023 MSHA GSA CD SUBMISSION
P0-G-1	PLUMBING LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	○	●	●	●	●	●
P1-0A	PLUMBING FIRST FLOOR PLAN - AREA A BELOW SLAB	○	●	●	●	●	●
P1-0B	PLUMBING FIRST FLOOR PLAN - AREA B BELOW SLAB	○	●	●	●	●	●
P1-0C	PLUMBING LOWER LEVEL FLOOR PLAN - AREA C BELOW SLAB	○	●	●	●	●	●
P1-0D	PLUMBING LOWER LEVEL FLOOR PLAN - AREA D BELOW SLAB	○	●	●	●	●	●
P1-1C	PLUMBING LOWER LEVEL FLOOR PLAN - AREA C	○	●	●	●	●	●
P1-1D	PLUMBING LOWER LEVEL FLOOR PLAN - AREA D	○	●	●	●	●	●
P1-11-A	PLUMBING FIRST FLOOR PLAN - AREA A	○	●	●	●	●	●
P1-11-B	PLUMBING FIRST FLOOR BELOW MEZZANINE PLAN - AREA AB	○	●	●	●	●	○
P1-11-B	PLUMBING FIRST FLOOR PLAN - AREA B	○	●	●	●	●	○
P1-11-C	PLUMBING FIRST FLOOR PLAN - AREA C	○	●	●	●	●	○
P1-11-D	PLUMBING FIRST FLOOR PLAN - AREA D	○	●	●	●	●	○
P1-12-A	PLUMBING SECOND FLOOR PLAN - AREA A	○	●	●	●	●	○
P1-12-B	PLUMBING SECOND FLOOR PLAN - AREA B	○	●	●	●	●	○
P1-12-C	PLUMBING SECOND FLOOR PLAN - AREA C	○	●	●	●	●	○
P1-12-D	PLUMBING SECOND FLOOR PLAN - AREA D	○	●	●	●	●	○
P1-13-A	PLUMBING THIRD FLOOR PLAN - AREA A	○	●	●	●	●	○
P1-13-B	PLUMBING THIRD FLOOR PLAN - AREA B	○	●	●	●	●	○
P1-13-C	PLUMBING THIRD FLOOR PLAN - AREA C	○	●	●	●	●	○
P1-13-D	PLUMBING THIRD FLOOR PLAN - AREA D	○	●	●	●	●	○
P1-14-A	PLUMBING FOURTH FLOOR PLAN - AREA A	○	●	●	●	●	○
P1-14-B	PLUMBING FOURTH FLOOR PLAN - AREA B	○	●	●	●	●	○
P1-14-C	PLUMBING FOURTH FLOOR PLAN - AREA C	○	●	●	●	●	○
P1-14-D	PLUMBING FOURTH FLOOR PLAN - AREA D	○	●	●	●	●	○
P1-12-1A	PLUMBING ROOF PLAN - AREA A	○	●	●	●	●	○
P1-12-1B	PLUMBING ROOF PLAN - AREA B	○	●	●	●	●	○
P1-12-1C	PLUMBING ROOF PLAN - AREA C	○	●	●	●	●	○
P1-12-1D	PLUMBING ROOF PLAN - AREA D	○	●	●	●	●	○
P2-0-0A	PLUMBING BELOW FIRST FLOOR ENLARGED PLANS	○	●	●	●	●	○
P2-1-1A	PLUMBING FIRST FLOOR ENLARGED PLANS	○	●	●	●	●	○
P3-0-1	PLUMBING DETAILS SHEET	○	●	●	●	●	○
P4-0-1	PLUMBING SCHEDULES SHEET	○	●	●	●	●	○
P5-0-1	PLUMBING RISER	○	●	●	●	●	○
P5-0-2	PLUMBING RISER	○	●	●	●	●	○
PC-1-1	PLUMBING CONCESSIONS FLOOR LEVEL PLAN	○	●	●	●	●	○
PI-1-1	PLUMBING LOOSEN DRIVING PLAN	○	●	●	●	●	○
PM-1-1	PLUMBING MAINTENANCE BUILDING PLAN	○	●	●	●	●	○

Scale: 12" = 1'-0"  
Job No.: 20202  
Drawn By: DR  
Date: January 13, 202





## SCOPE NOTE:

1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RADON MITIGATION. PROVIDE 8" VENT FROM UNDERSLAB THROUGH ROOF PER 10,000 SF. PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.

FINISHED FLOOR ELEVATION AT LOWER LEVEL IS 143.50'

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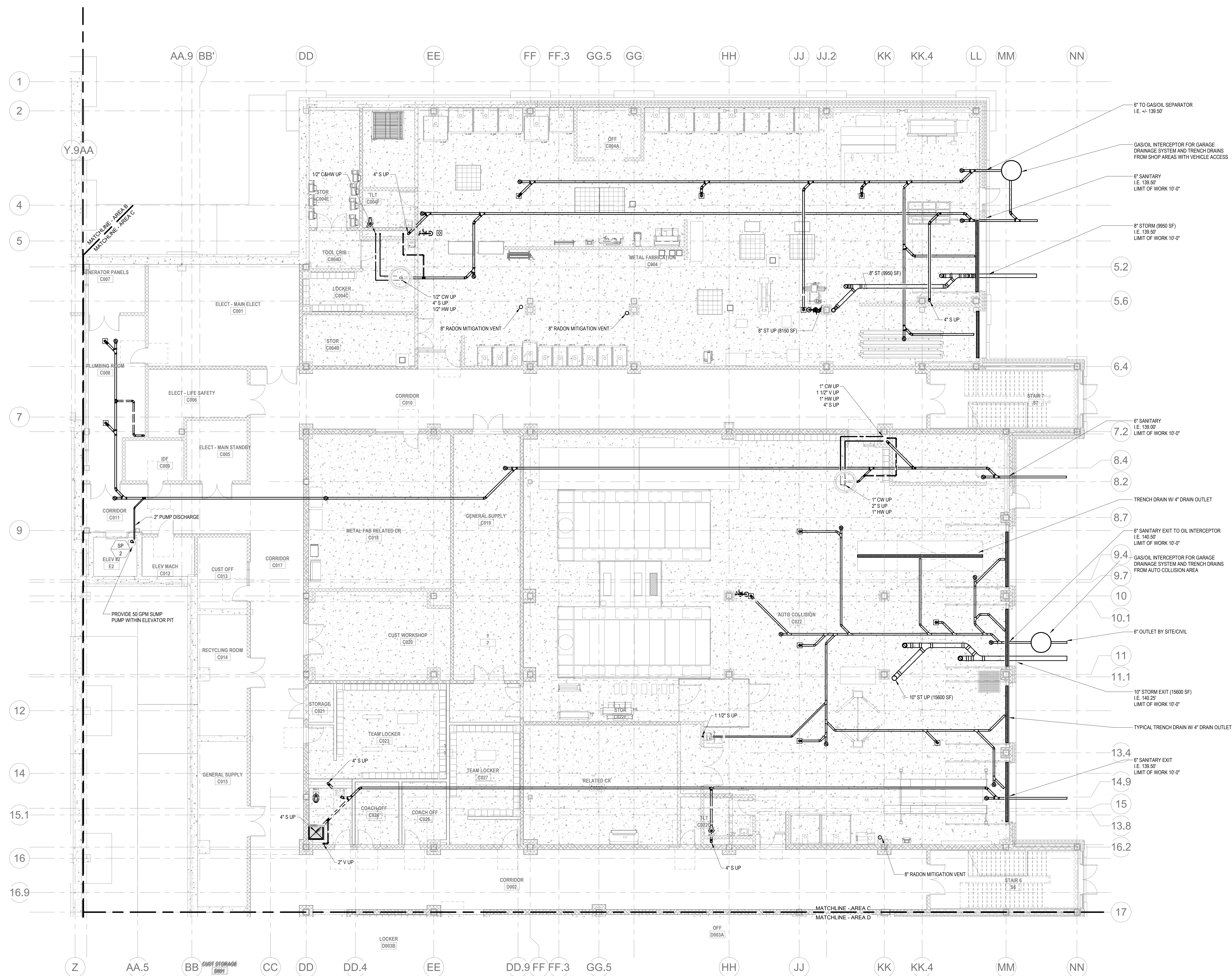
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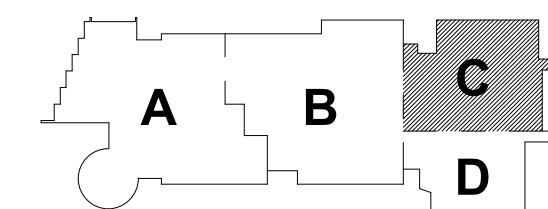


**PLUMBING Level 0 Area C - Below Slab**  
P1-0-0C 1/8" = 1'-0"

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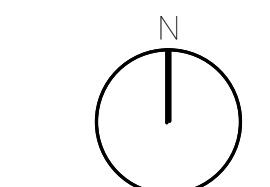
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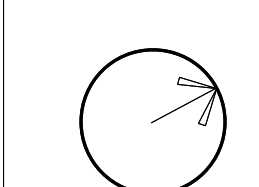


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



## PLUMBING LOWER LEVEL FLOOR PLAN - AREA C BELOW SLAB

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

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

P1-0-0C

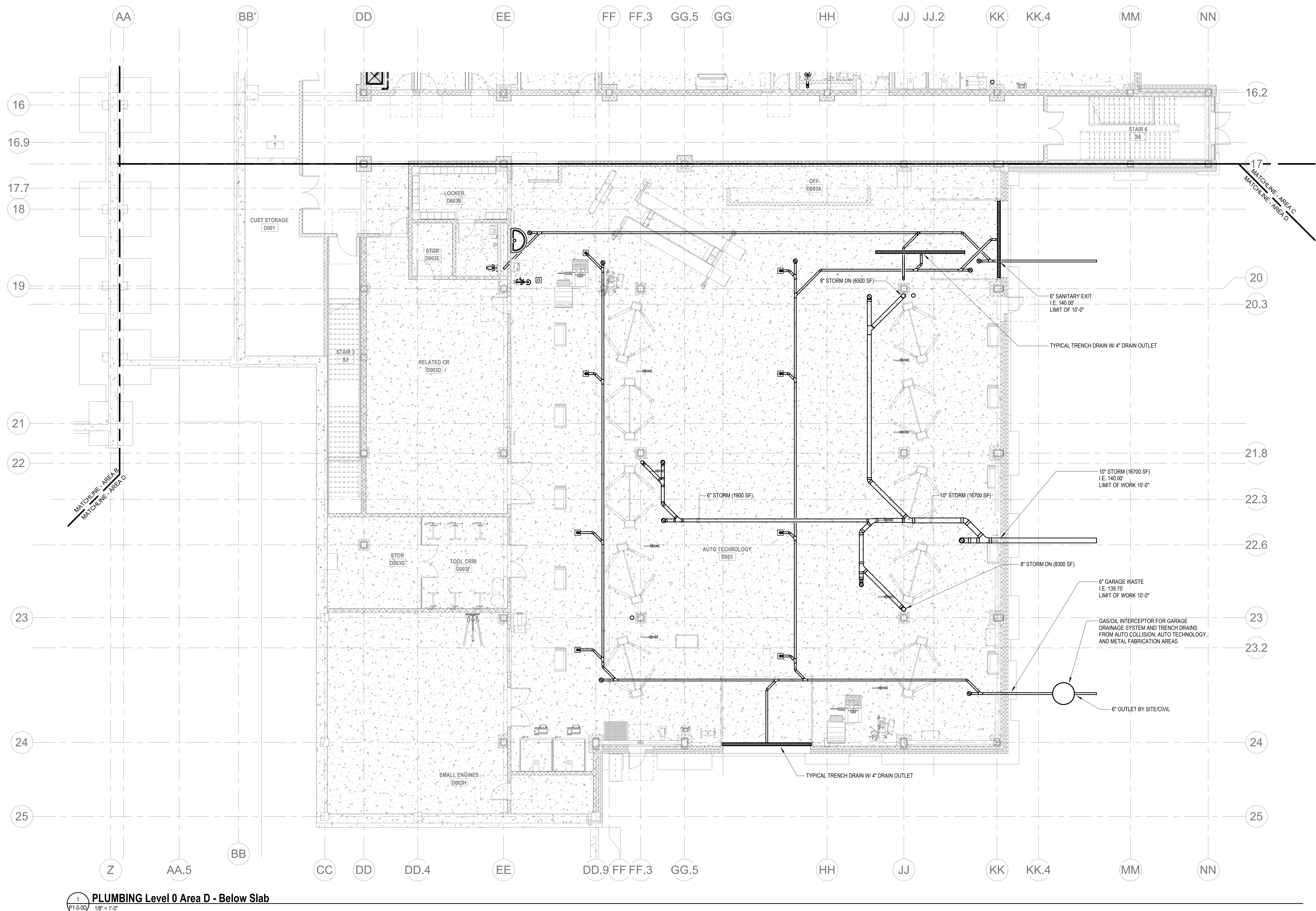
## SCOPE NOTE:

1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RACON MITIGATION. PROVIDE 8" VENT FROM UNDERSLAB THROUGH ROOF PER 10,000 SF. PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
2. PROVIDE DEDICATED VENTING FROM UNDERSLAB DRAINAGE SYSTEM THROUGH ROOF.

## KEY NOTES:

1. SANITARY MAN TO HANDLE ALL PLUMBING FIXTURES SHOWN IN THIS BUILDING SEGMENT. STORM DRAIN MAIN TO HANDLE ALL ROOF DRAINS FOR THIS BUILDING SEGMENT. REFER TO ARCHITECTURAL DRAWINGS FOR QUANTITY & LOCATIONS.

FINISHED FLOOR ELEVATION AT LOWER LEVEL IS 143.30'



PLUMBING Level 0 Area D - Below Slab

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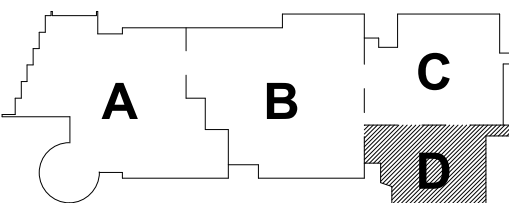
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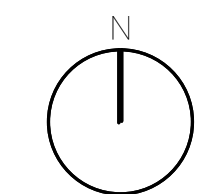
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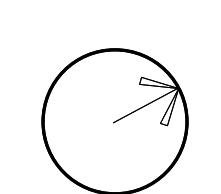


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH

PLUMBING  
LOWER LEVEL  
FLOOR PLAN -  
AREA D BELOW  
SLAB

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

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

P1-0-0D



- Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023
- P1-1-0C**

## KEY NOTES:

- ① PROVIDE COMPRESSED AIR COIL DROP FROM CEILING. EACH DROP SHALL CONTAIN A PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.

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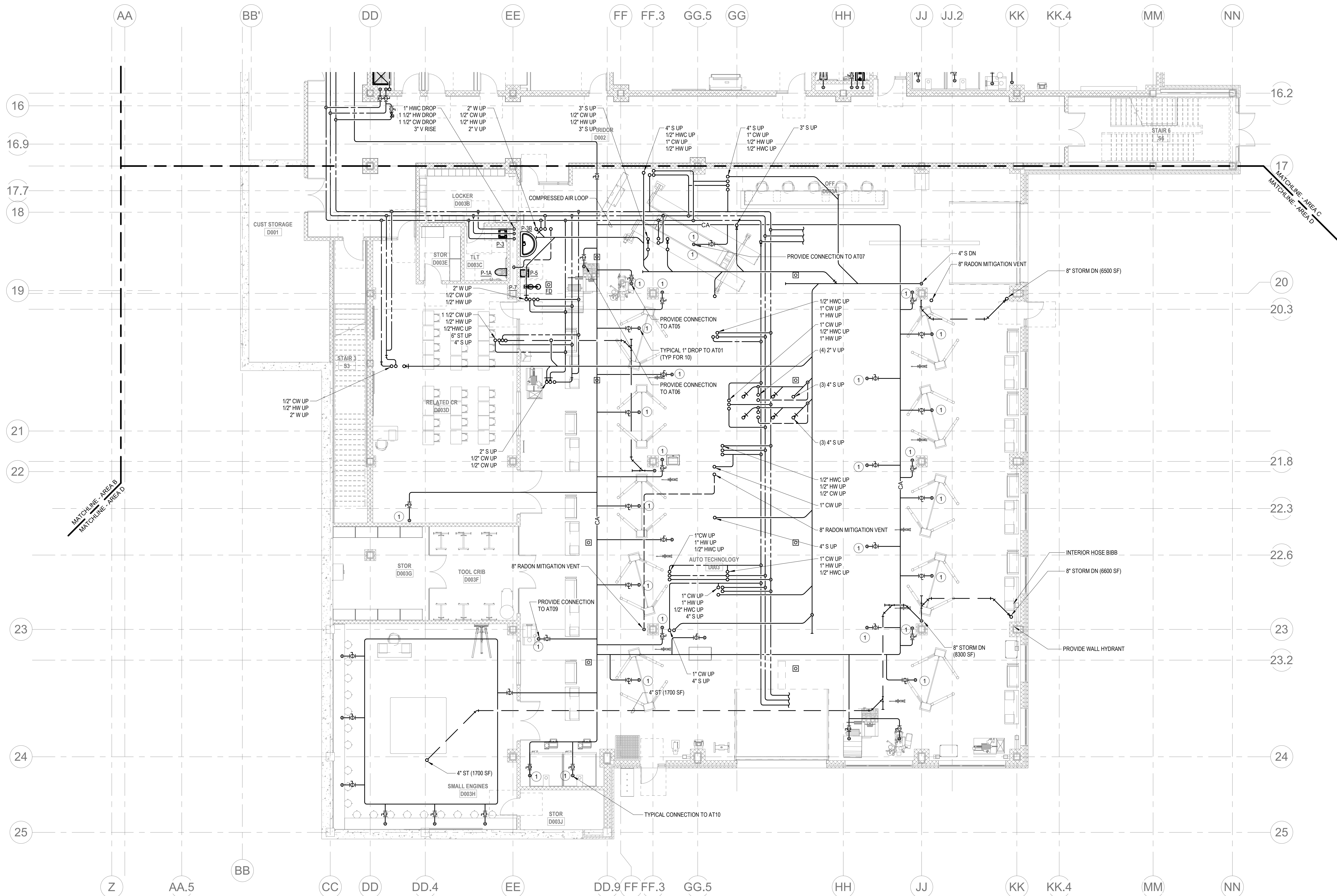
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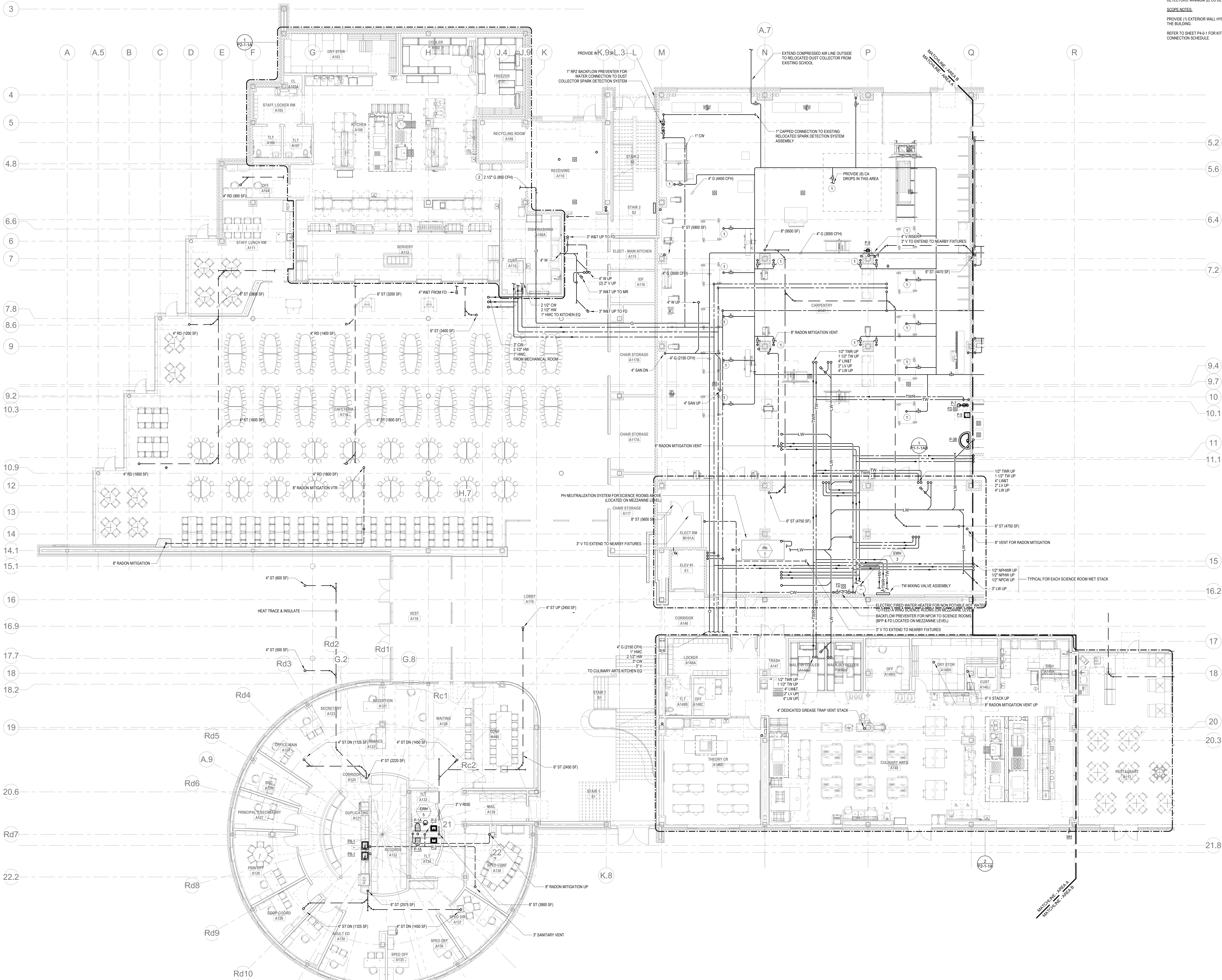
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**KEY NOTES:**

1. PROVIDE COMPRESSED AIR DROP FROM CEILING AGAINST COLUMN. EACH DROP SHALL CONTAIN A PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
2. AT EACH GAS HOOD, PROVIDE KITCHEN EMERGENCY GAS SHUTOFF SYSTEM. SYSTEM SHALL CONSIST OF MAIN CONTROL PANEL WITH SHUTOFF SWITCH, GAS SOLENOID VALVE, AND CO DETECTORS. MINIMUM (2) CO DETECTORS PER HOOD.

**SCOPE NOTES:**

PROVIDE (1) EXTERIOR WALL HYDRANT ON EACH FACADE OF THE BUILDING.

REFER TO SHEET P4-0.1 FOR KITCHEN PLUMBING FIXTURE CONNECTION SCHEDULE.

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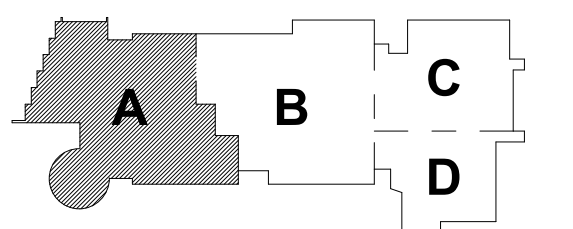
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KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

**PLUMBING FIRST  
FLOOR PLAN -  
AREA A**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

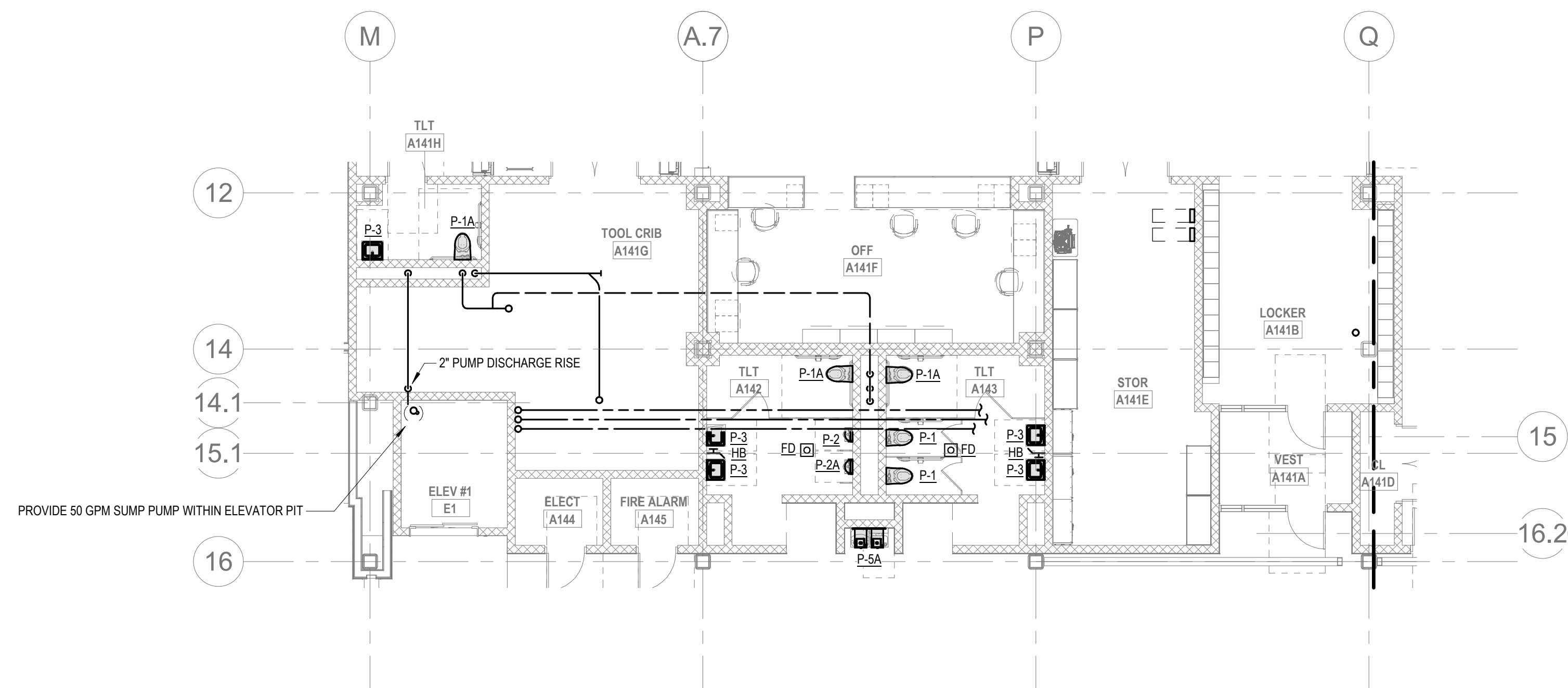
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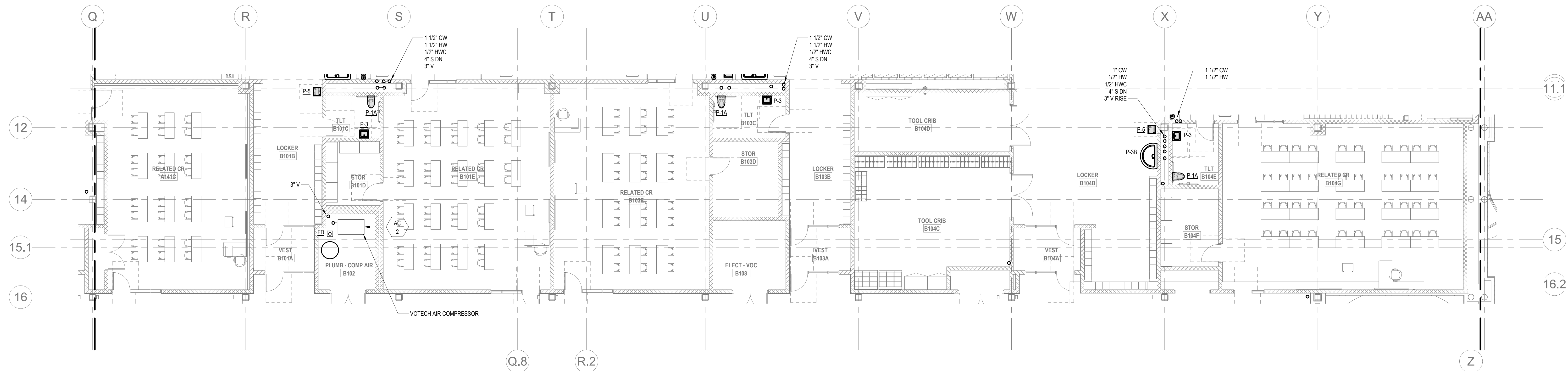
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1 PLUMBING LEVEL 1 BELOW MEZZ. AREA A PART PLAN  
11-1-1AB 1/8" = 1'-0"



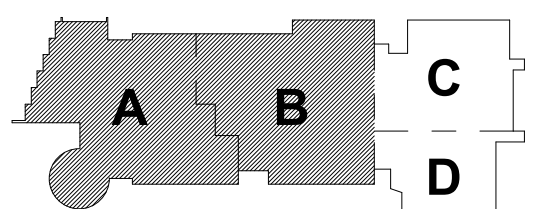
2 PLUMBING LEVEL 1 BELOW MEZZ. AREA B PART PLAN  
11-1-1AB 1/8" = 1'-0"

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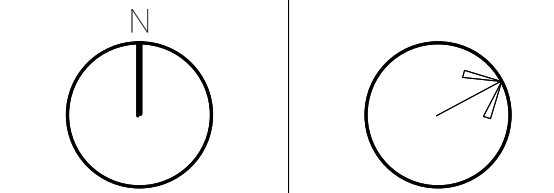
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH



PLUMBING FIRST  
FLOOR BELOW  
MEZZANINE  
PLAN - AREA A/B

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

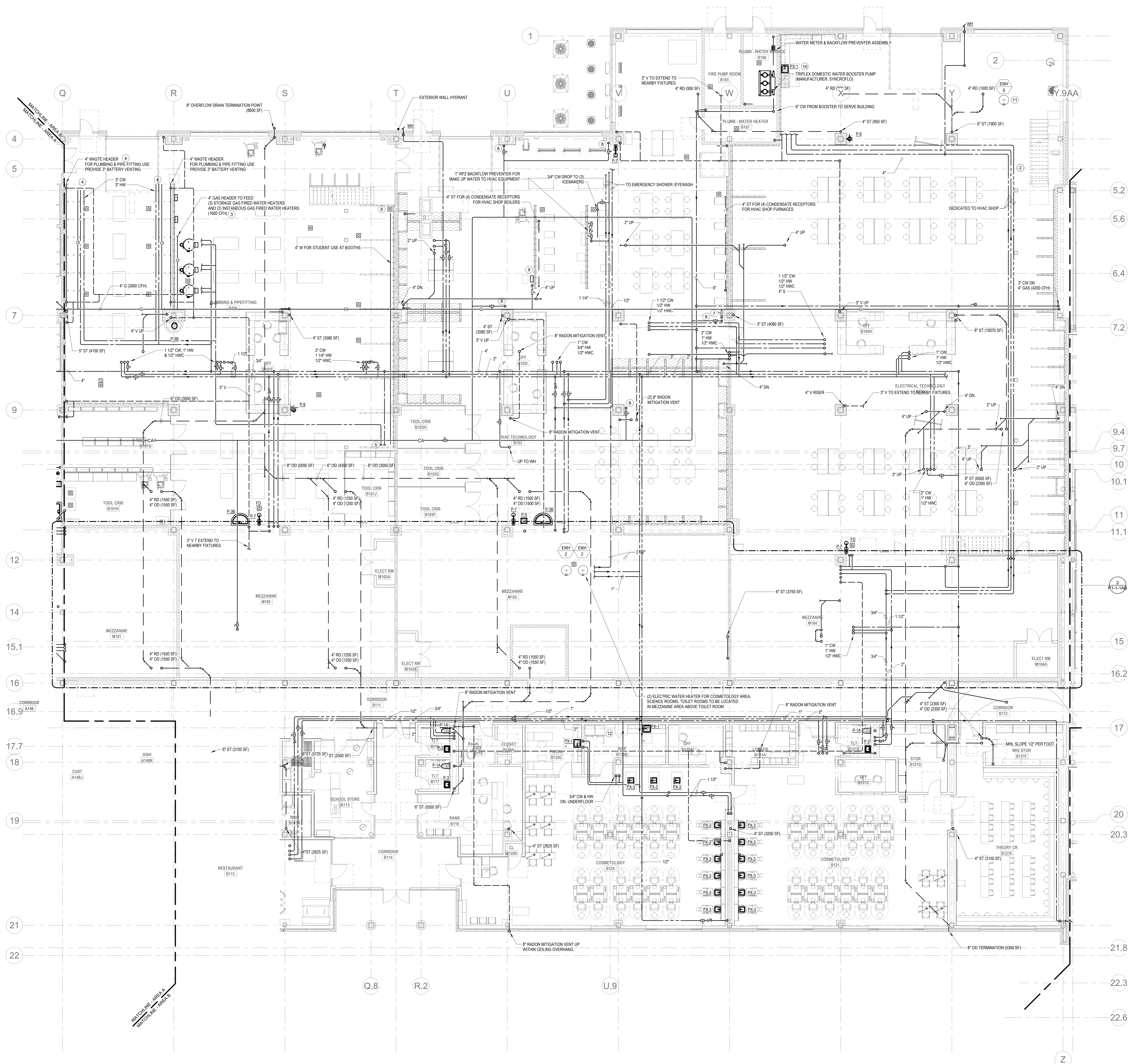
P1-1-1AB

**KEY NOTES:**

1. PROVIDE AN ALLOWANCE FOR (10) COMPRESSED AIR DROPS WITHIN HVAC TECHNOLOGY SHOP. EACH COMPRESSED AIR DROP SHALL INCLUDE A SHUTOFF VALVE, AIR FILTER, PRESSURE GAUGE, AND AIR PRESSURE REGULATOR. PROVIDE 50 FOOT HOSE REEL FOR EACH DROP.
2. PROVIDE EXPANSION LOOP AND FLEXIBLE COUPLINGS ON DOMESTIC WATER PIPE WHICH CROSSES EXPANSION JOINT AT COLUMN LINE 15.28.
3. PROVIDE (3) GAS FIRED WATER HEATERS WITHIN THE PLUMBING/PIPE FITTING SHOP. HEATERS SHALL BE 130 GALLON PVI CONDENSAT CONDENSING WATER HEATER. EACH HEATER SHALL REQUIRE 400 CFH.
4. PROVIDE (16) TYPICAL 1" CW, 1" HW, AND 3" DRAIN CONNECTION AT EACH STUDENT PLUMBING BOOTH. HW FOR THESE BOOTHS SHALL BE FED FROM THE (3) GAS FIRED HEATERS IN THE PLUMBING/PIPE FITTING SHOP.
5. PROVIDE CAPPED CW & HW CONNECTION FOR STUDENT USE AT PLUMBING BOOTHS.
6. PROVIDE OPEN 4" DRAIN LINE SLOPED TOWARDS FLOOR DRAIN.
7. PROVIDE CAPPED GAS LINE WITH MASTER GAS SHUTOFF FOR FUTURE USE BY SCHOOL.
8. PROVIDE COMPRESSED AIR DROP FROM CEILING AGAINST COLUMN. EACH DROP SHALL CONTAIN A PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
9. PROVIDE INSTANTANEOUS GAS FIRED WATER HEATER.
10. P.X.1 SINK IN ELECTRICAL SHOP IS A MOCK SINK. PROVIDE NO WATER OR WASTE TO SINK. PROVIDE GARBAGE DISPOSAL TO P.X.1 SINK IN ELECTRICAL SHOP.
11. ELECTRIC WATER HEATER IS A MOCK WATER HEATER FOR USE BY STUDENTS OF ELECTRICAL SHOPS. PROVIDE NO WATER TO WATER HEATER.
12. PROVIDE WASHING MACHINE BOX WITH 1/2" CW, 1/2" HW, 1/2" W, AND 2" V CONNECTIONS.

**SCOPE NOTES:**

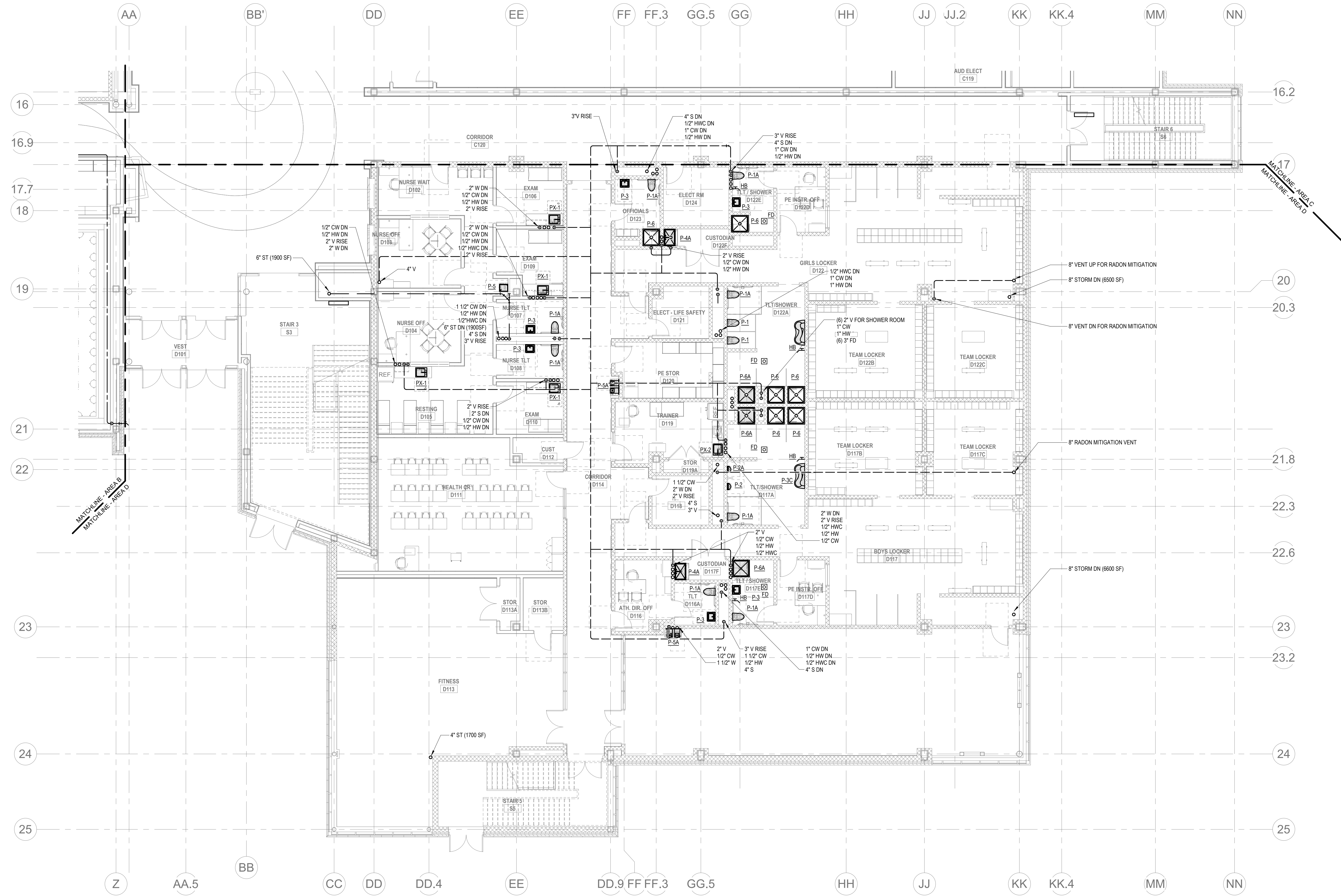
PROVIDE ALLOWANCE FOR 6" SECONDARY ROOF DRAINAGE TERMINATION POINT ON NORTH SIDE OF BUILDING.



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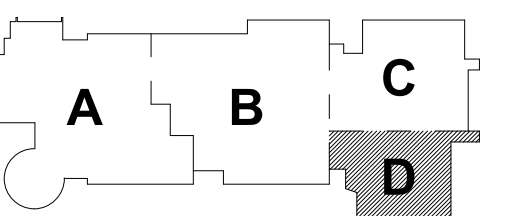
**PLUMBING Level 1 Area D**

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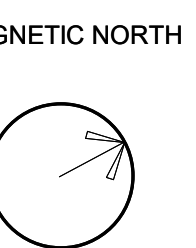
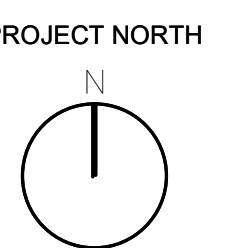
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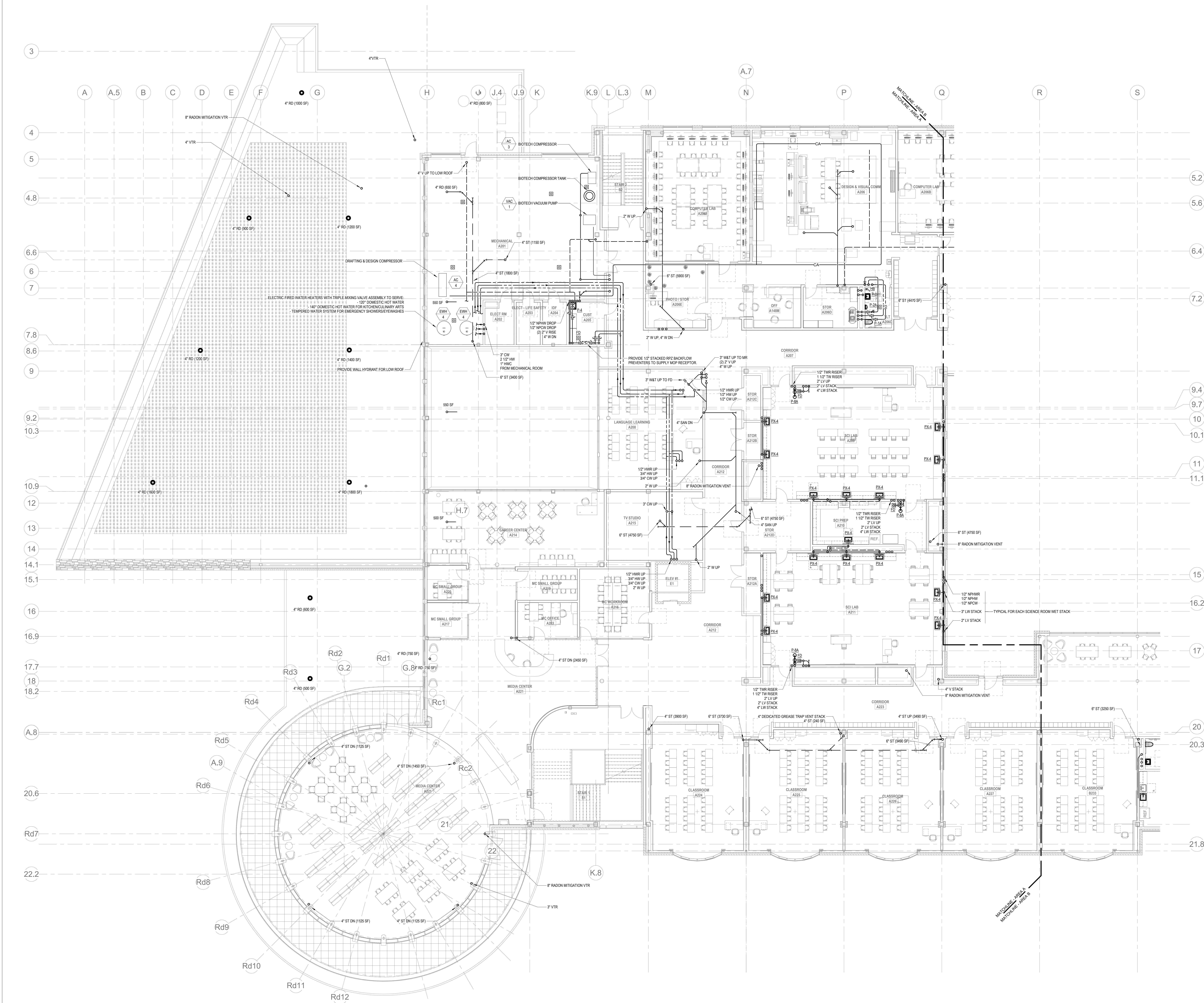
## KEY PLAN



**PLUMBING FIRST  
FLOOR PLAN -  
AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**P1-1-1D**



**PLUMBING Level 2 Area A**  
1/13/23  
1/8" = 1'-0"

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A

B

C

D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

PLUMBING  
SECOND FLOOR  
PLAN - AREA A

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

P1-1-2A

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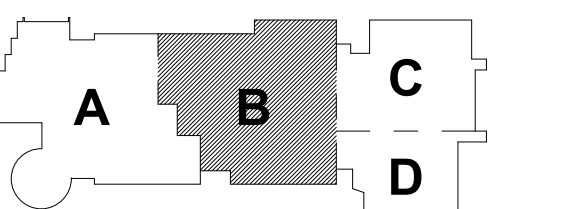
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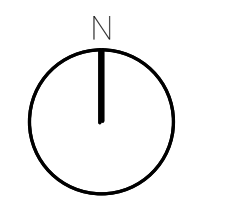
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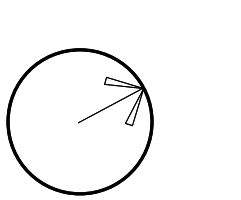


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**PLUMBING  
SECOND FLOOR  
PLAN - AREA B**

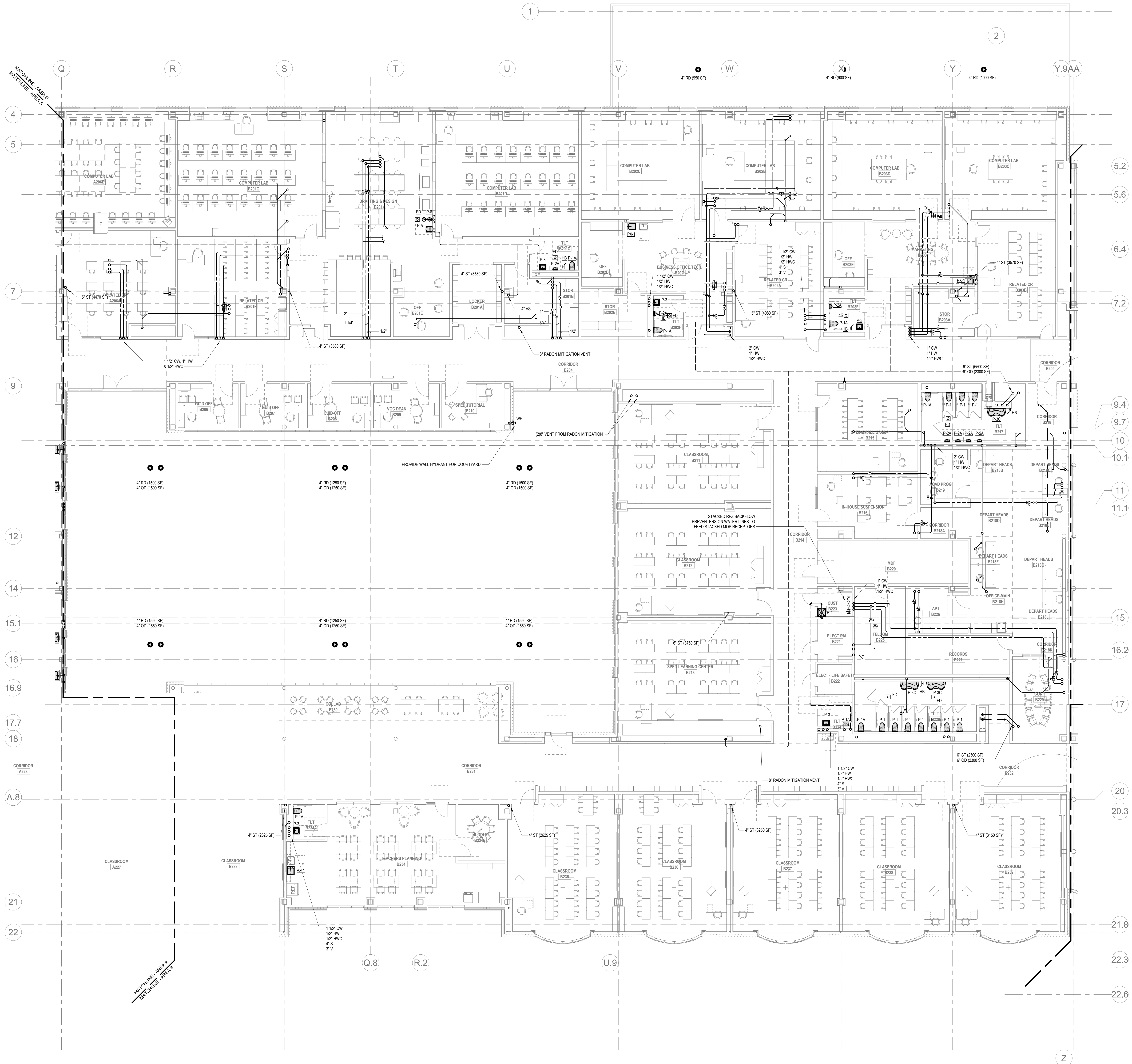
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Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

**P1-1-2B**



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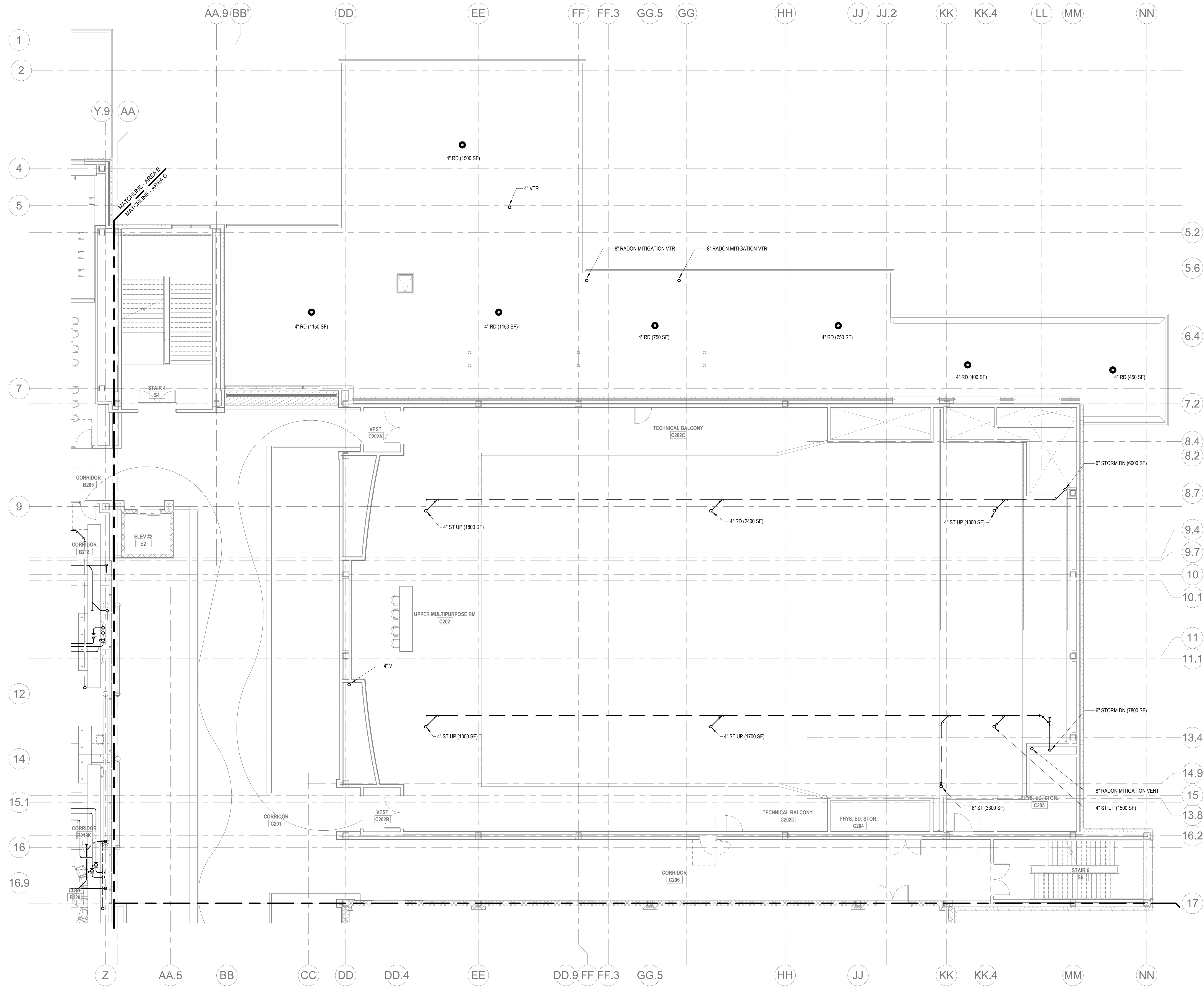
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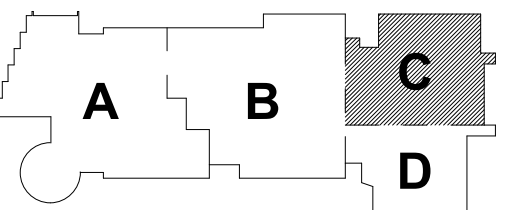
**PLUMBING Level 2 Area C**  
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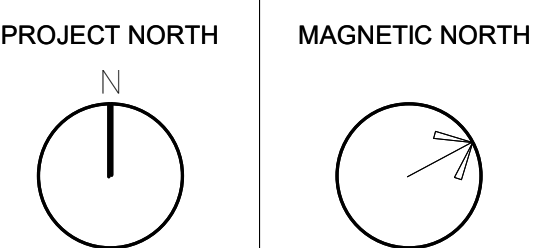
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KEY PLAN



**PLUMBING  
SECOND FLOOR  
PLAN - AREA C**

Scale: 1/8\"/>

**P1-1-2C**

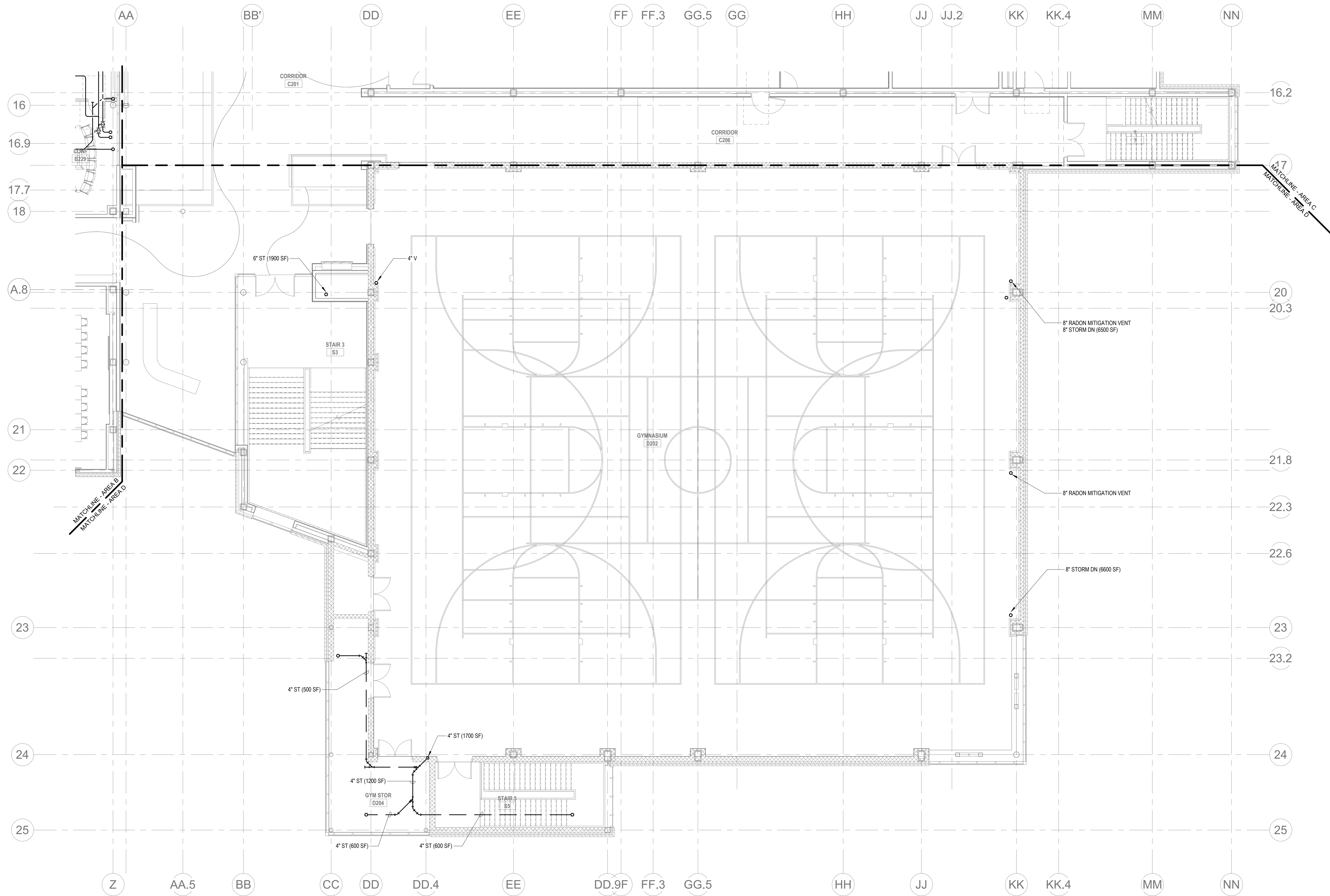
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1 PLUMBING Level 2 Area D  
P1-1-2D  
1/8" = 1'-0"

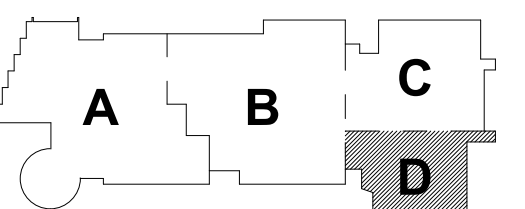
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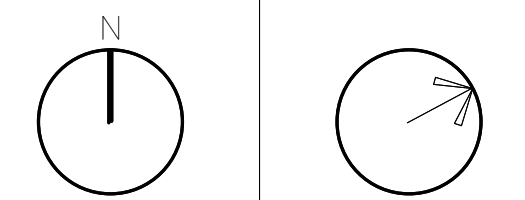
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**PLUMBING  
SECOND FLOOR  
PLAN - AREA D**

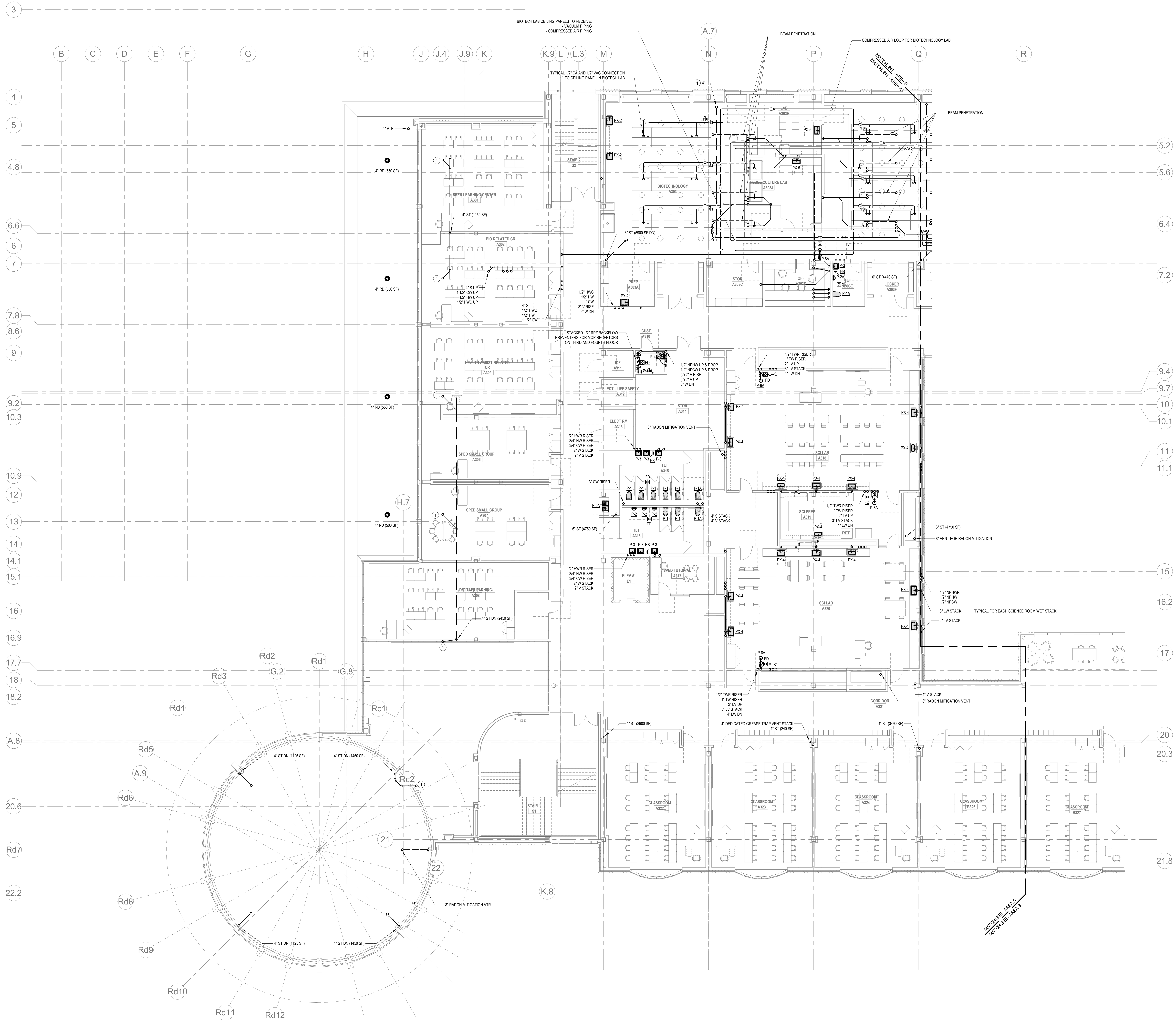
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Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

P1-1-2D

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**KEY NOTES:**

① ST UP TO SD ABOVE



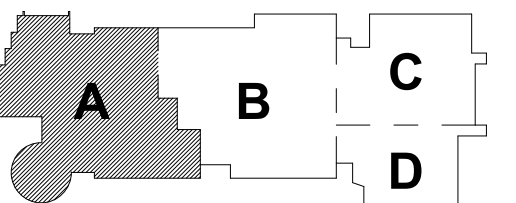
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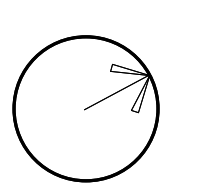
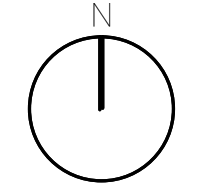
January 13, 2023



## Y PLAN

PROJECT NORTH

MAGNETIC NORTH



**PLUMBING  
THIRD FLOOR  
PLAN - AREA A**

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

Lab No.: 20303

REV NO.: 20202

Drawn By: DRA

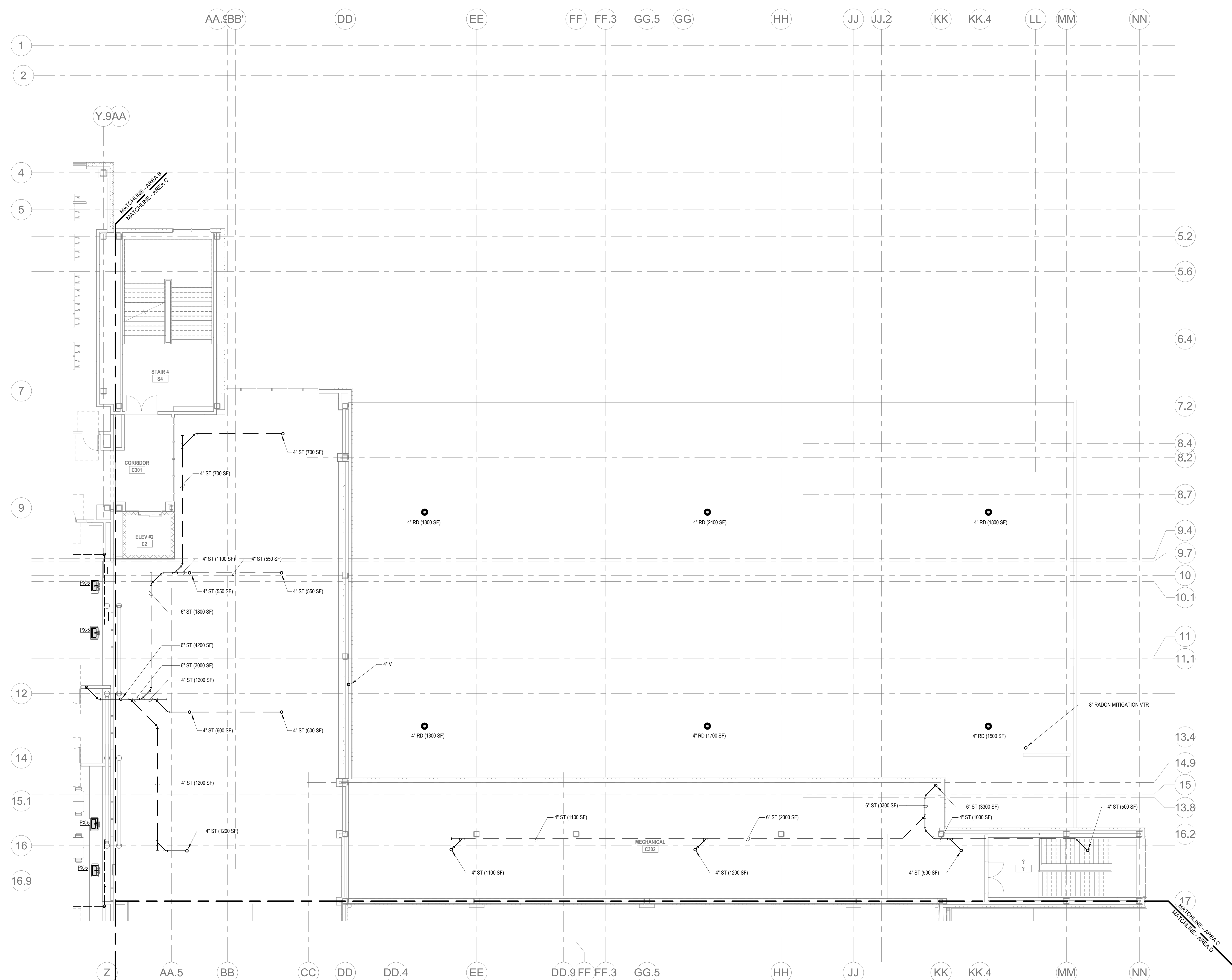
**P1-1-3A**





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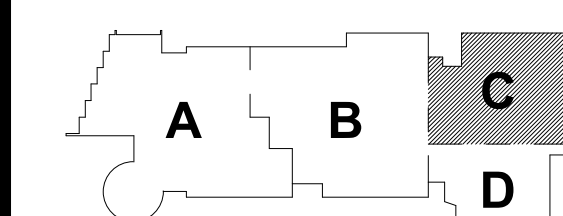
**PLUMBING Level 3 Area C**

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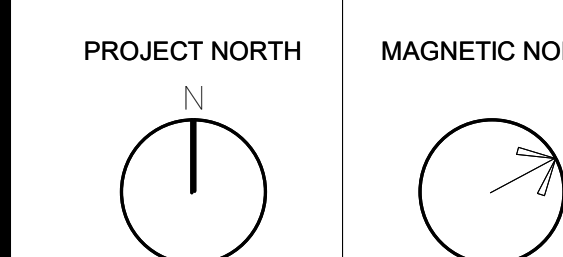


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### KEY PLAN



**PLUMBING  
THIRD FLOOR  
PLAN - AREA C**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DR  
Date: January 13, 2021

**P1-1-3C**



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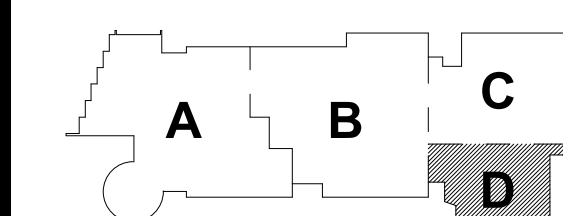


<sup>(c)</sup> CONVEYANCE AREA DELIVERED TO STATE AGRICULTURAL INDC

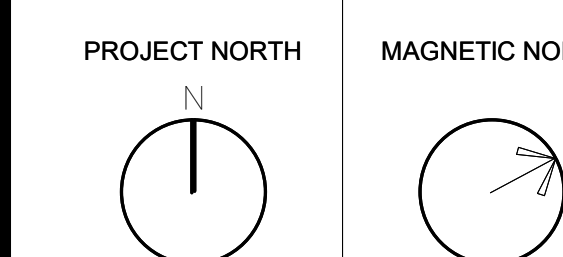
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### KEY PLANS



**PLUMBING  
THIRD FLOOR  
PLAN - AREA D**

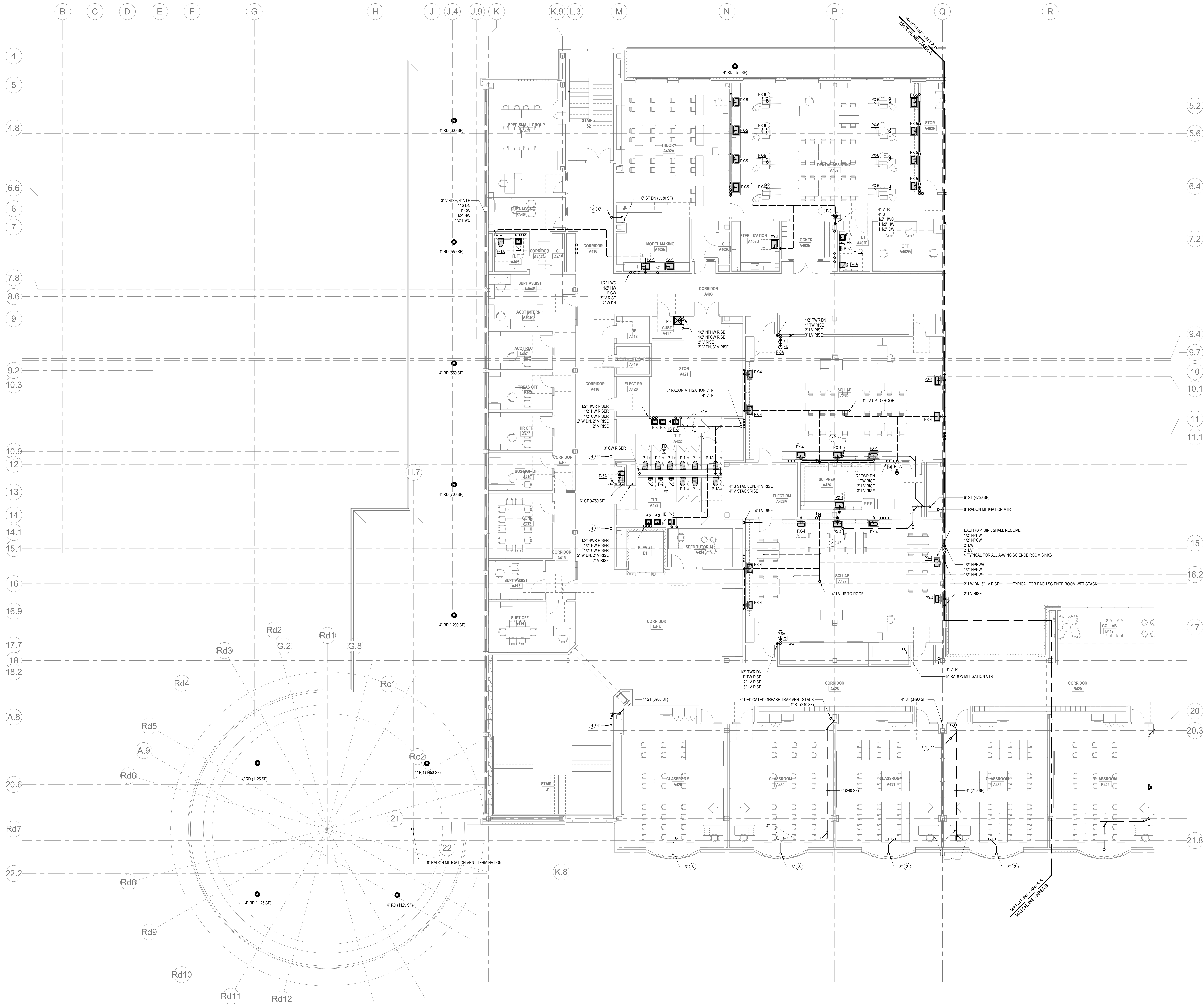
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Job No.: 20202

Drawn By: DR

Date: January 13, 2022

**P1-1-3D**



- KEY NOTES:
- 1 PROVIDE EMERGENCY MIXING VALVE ABOVE CEILING TO PROVIDE TEMPERED WATER TO EMERGENCY EYEWASH.
  - 2 3\"/>
  - 3 ST UP TO SD ABOVE
  - 4 ST UP TO RD ABOVE

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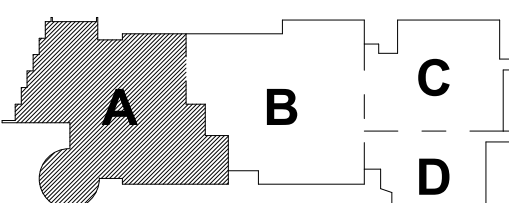
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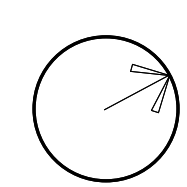
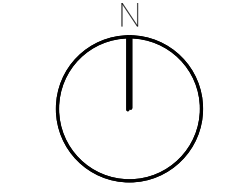
January 13, 2023



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**PLUMBING  
FOURTH FLOOR  
PLAN - AREA A**

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

Job No.: 20022

Drawn By: DRA

Date: January 13, 2023

**P1-1-4A**





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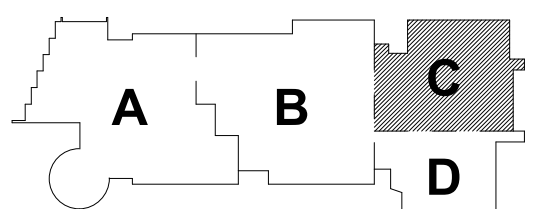
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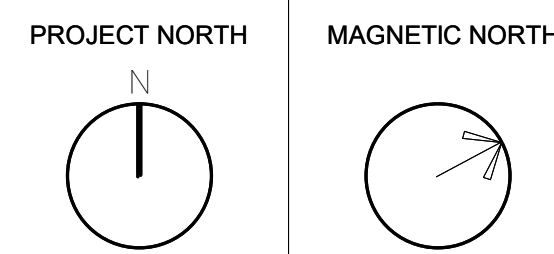


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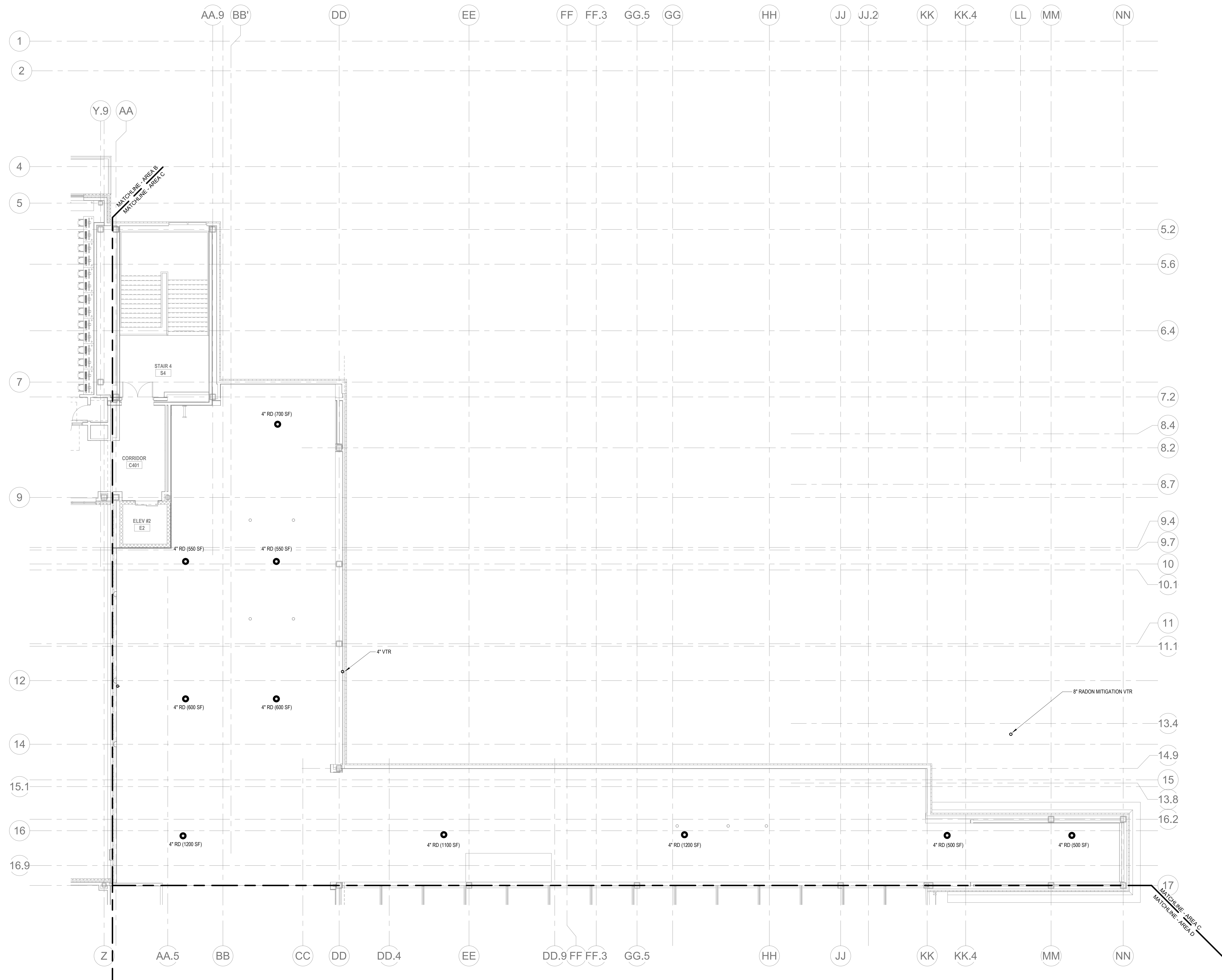
KEY PLAN



**PLUMBING  
FOURTH FLOOR  
PLAN - AREA C**

Scale: 1/8" = 1'-0"  
Job No.: 2002  
Drawn By: DRA  
Date: January 13, 2023

**P1-1-4C**



**PLUMBING Level 4 Area C**  
P1-1-4C 1/8" = 1'-0"



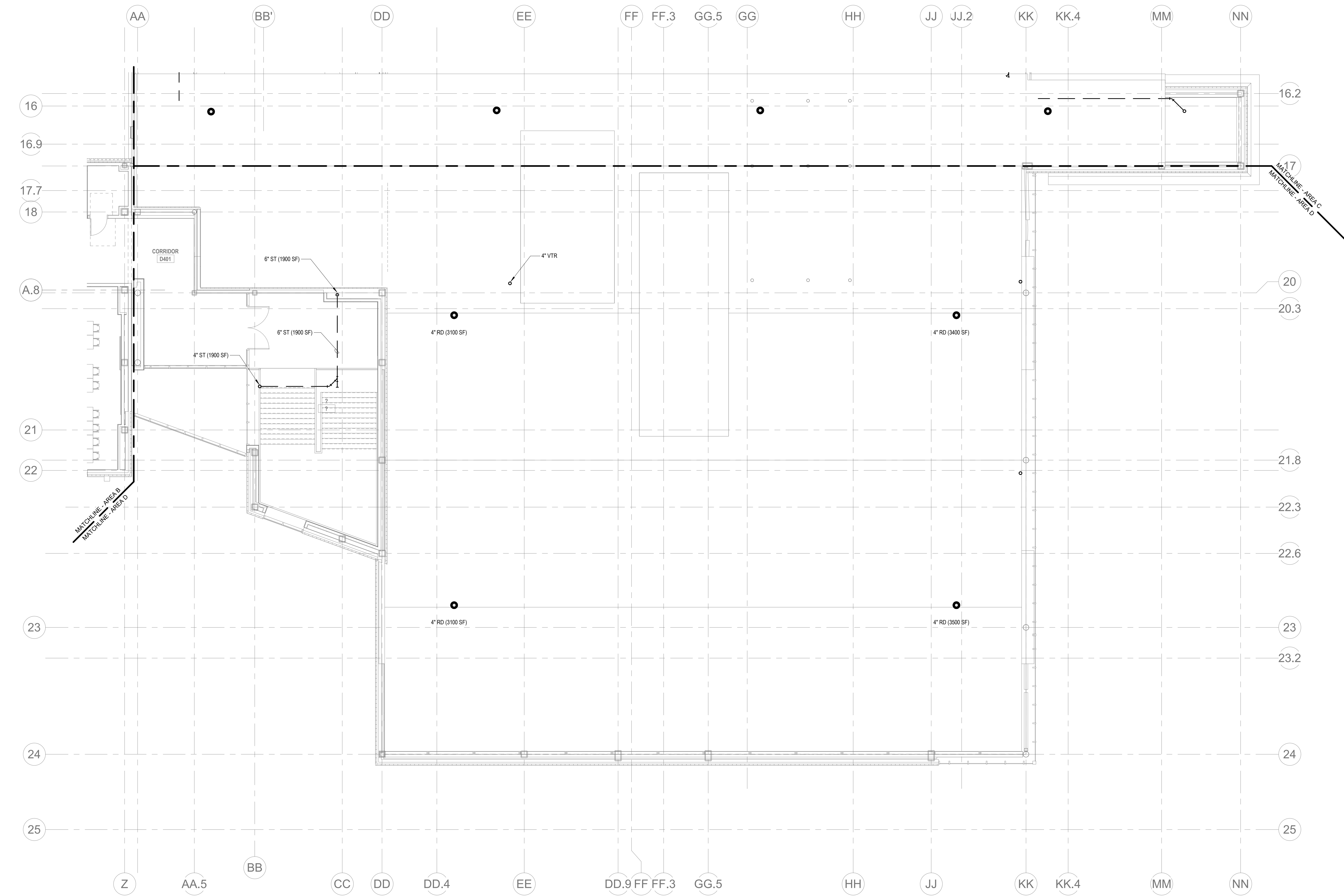
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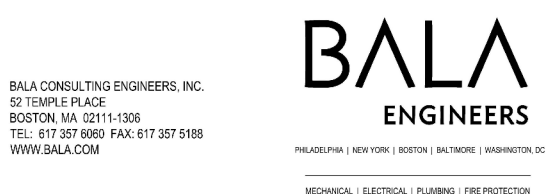
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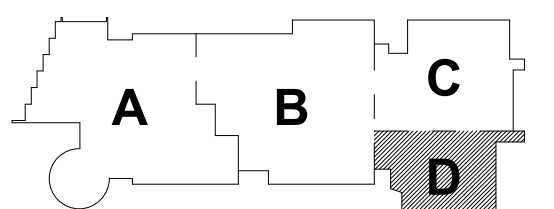
**PLUMBING Level 4 Area D**  
P1-1-4D 1/8" = 1'-0"

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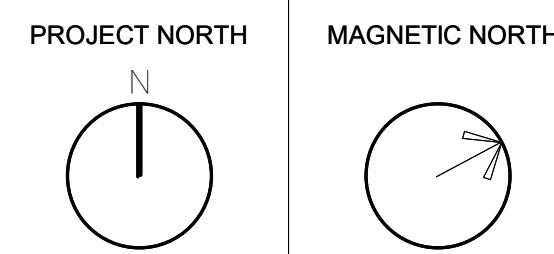


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KEY PLAN



**PLUMBING  
FOURTH FLOOR  
PLAN - AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**P1-1-4D**

SCOPE NOTES:  
SECONDARY ROOF DRAINAGE IS NOT REQUIRED ON THE BASIS THAT THE ROOF STRUCTURE IS CAPABLE OF HANDLING THE MAXIMUM PONDING.

KEY NOTES:  
1 PROVIDE (5) SOUPPER TYPE DRAINS AT LOW ROOF. PROVIDE AN ALLOWANCE OF 200 FEET OF STORM PIPING TO CONNECT TO STORM SYSTEM WITHIN BUILDING.

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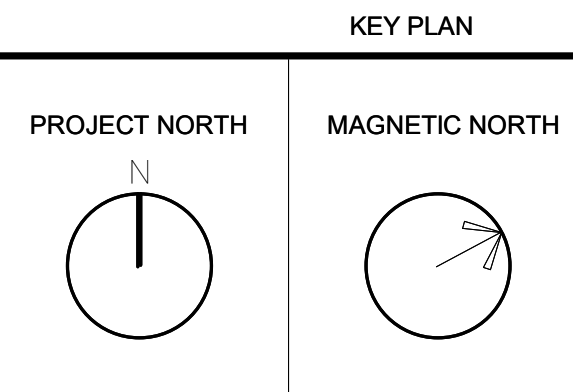
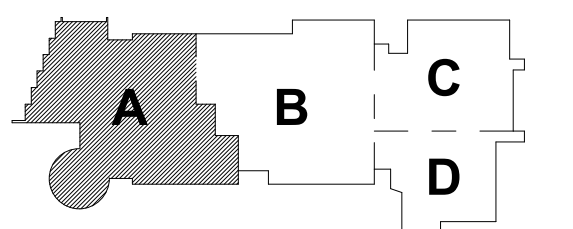
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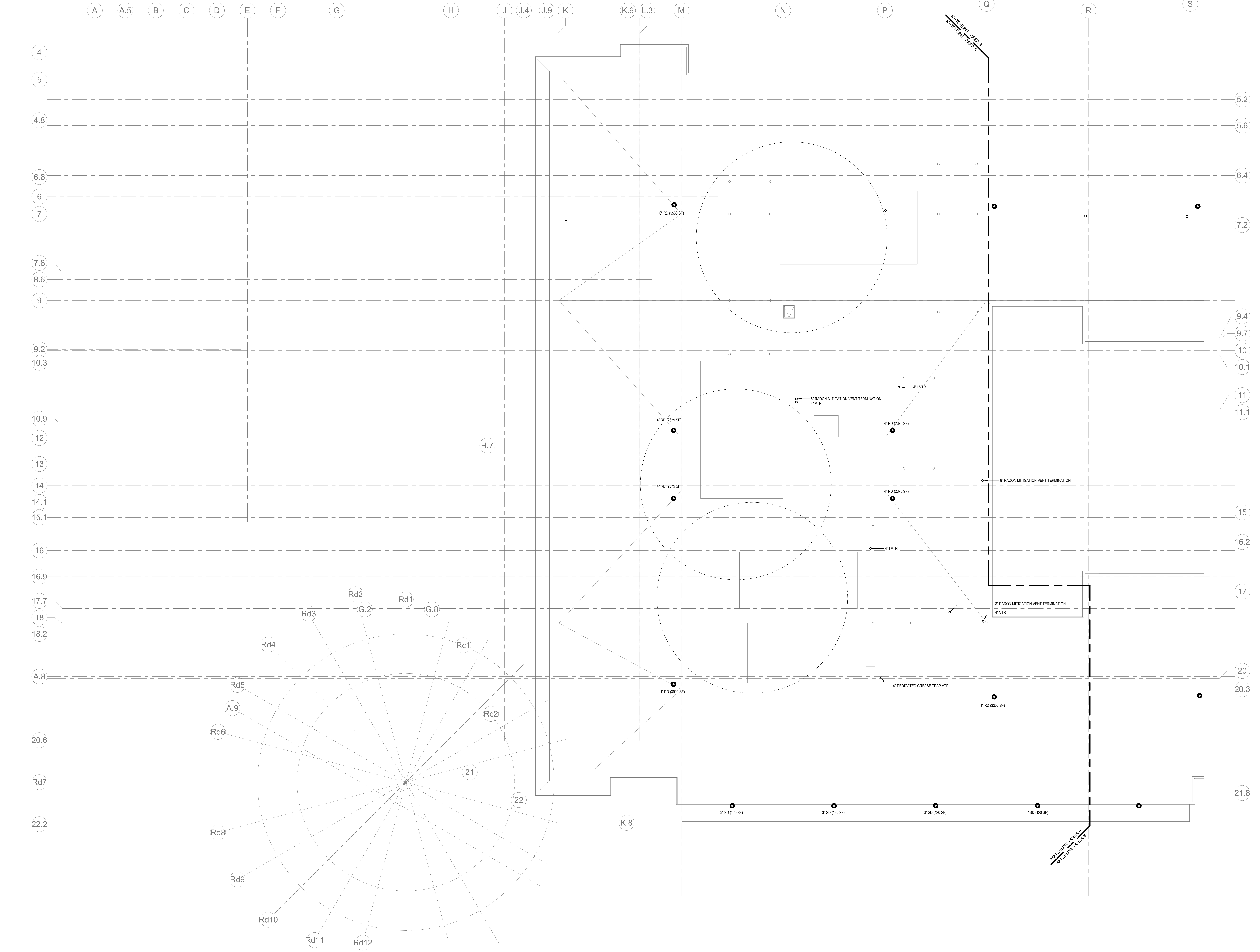
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PLUMBING ROOF  
PLAN - AREA A

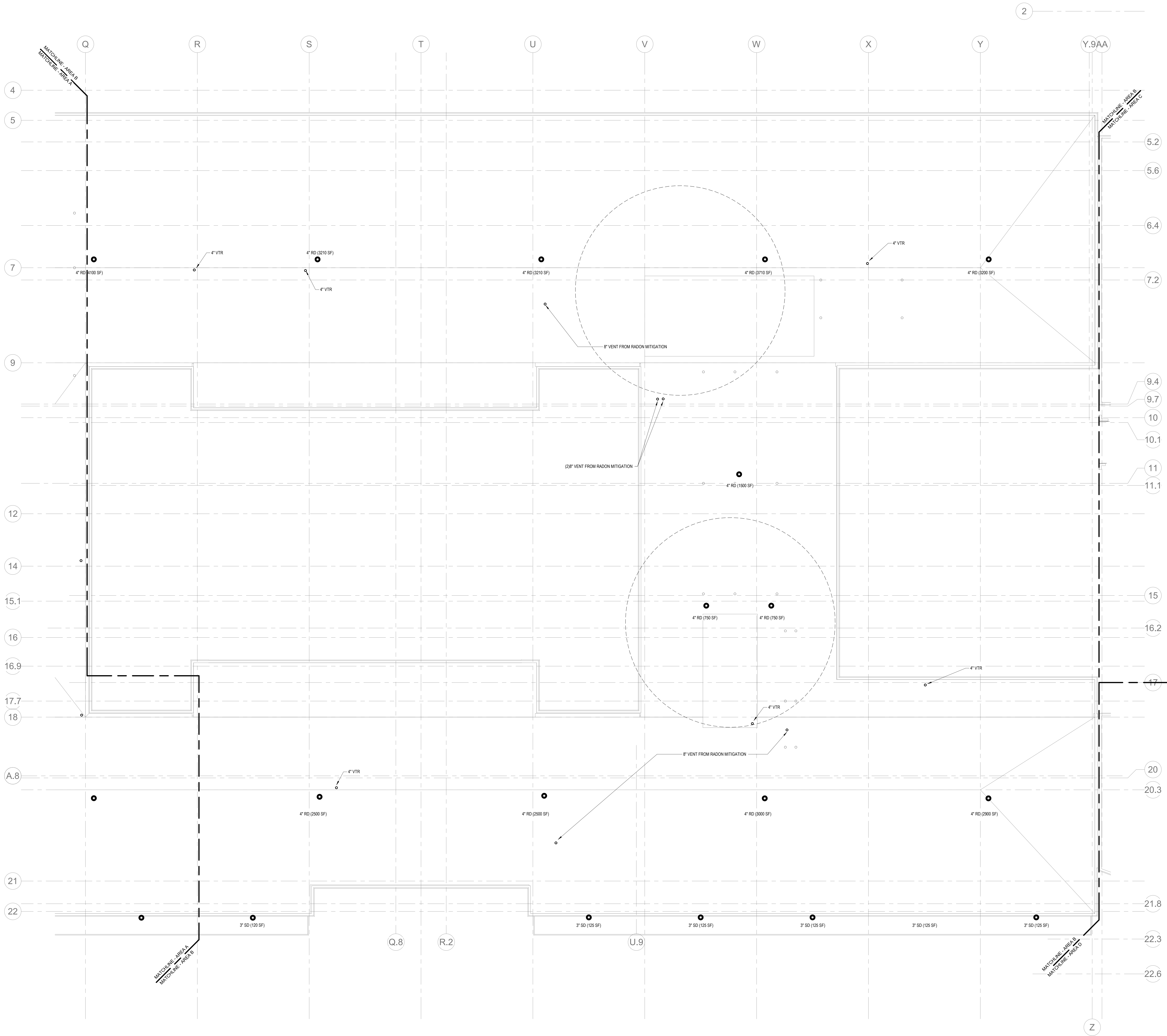
Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

P1-2-1A



SCOPE NOTES:  
SECONDARY ROOF DRAINAGE IS NOT REQUIRED ON THE BASIS THAT THE ROOF STRUCTURE IS CAPABLE OF HANDLING THE MAXIMUM PONDING.

KEY NOTES:  
1 PROVIDE (5) SCUPPER TYPE DRAINS AT LOW ROOF. PROVIDE AN ALLOWANCE OF 200 FEET OF STORM PIPING TO CONNECT TO STORM SYSTEM WITHIN BUILDING.



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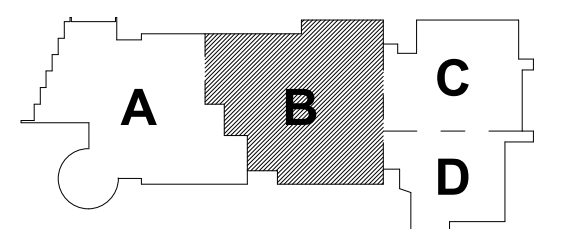
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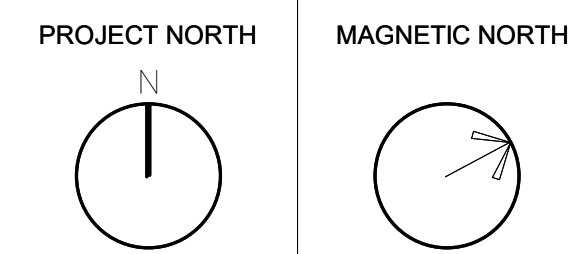
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KEY PLAN



**PLUMBING ROOF  
PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**P1-2-1B**

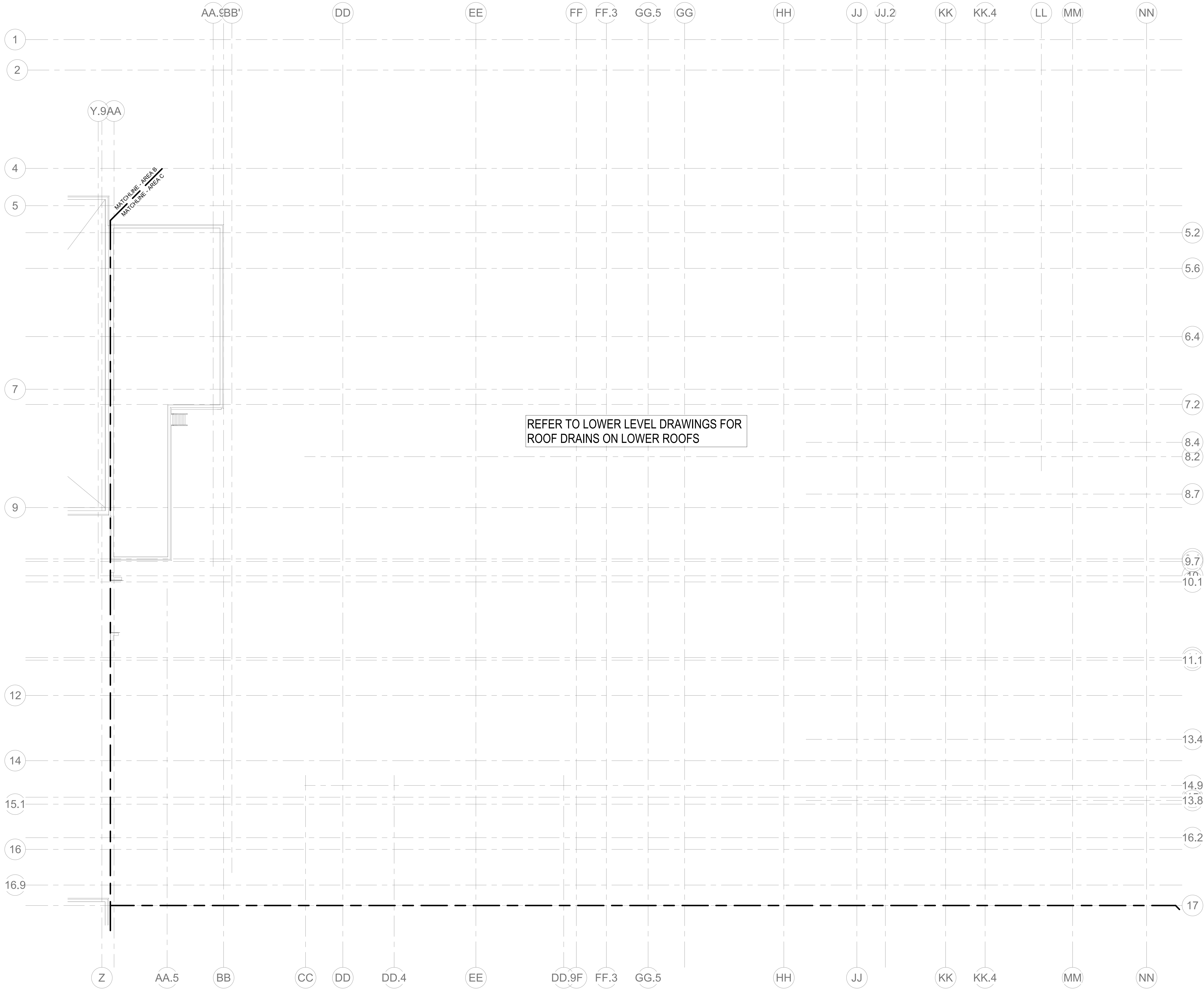
SCOPE NOTES:  
SECONDARY ROOF DRAINAGE IS NOT REQUIRED ON THE BASIS THAT THE  
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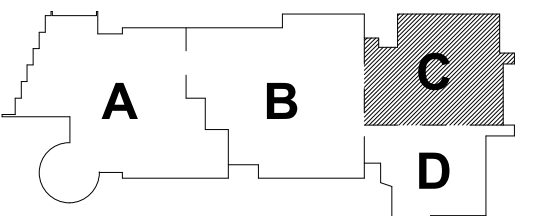


1 PLUMBING Main Roof Area C  
P1-2-1C  
1/8" = 1'-0"

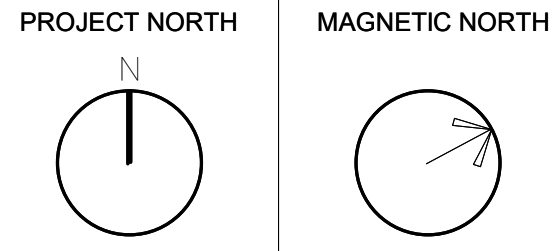
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KEY PLAN



PLUMBING ROOF  
PLAN - AREA C

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
P1-2-1C

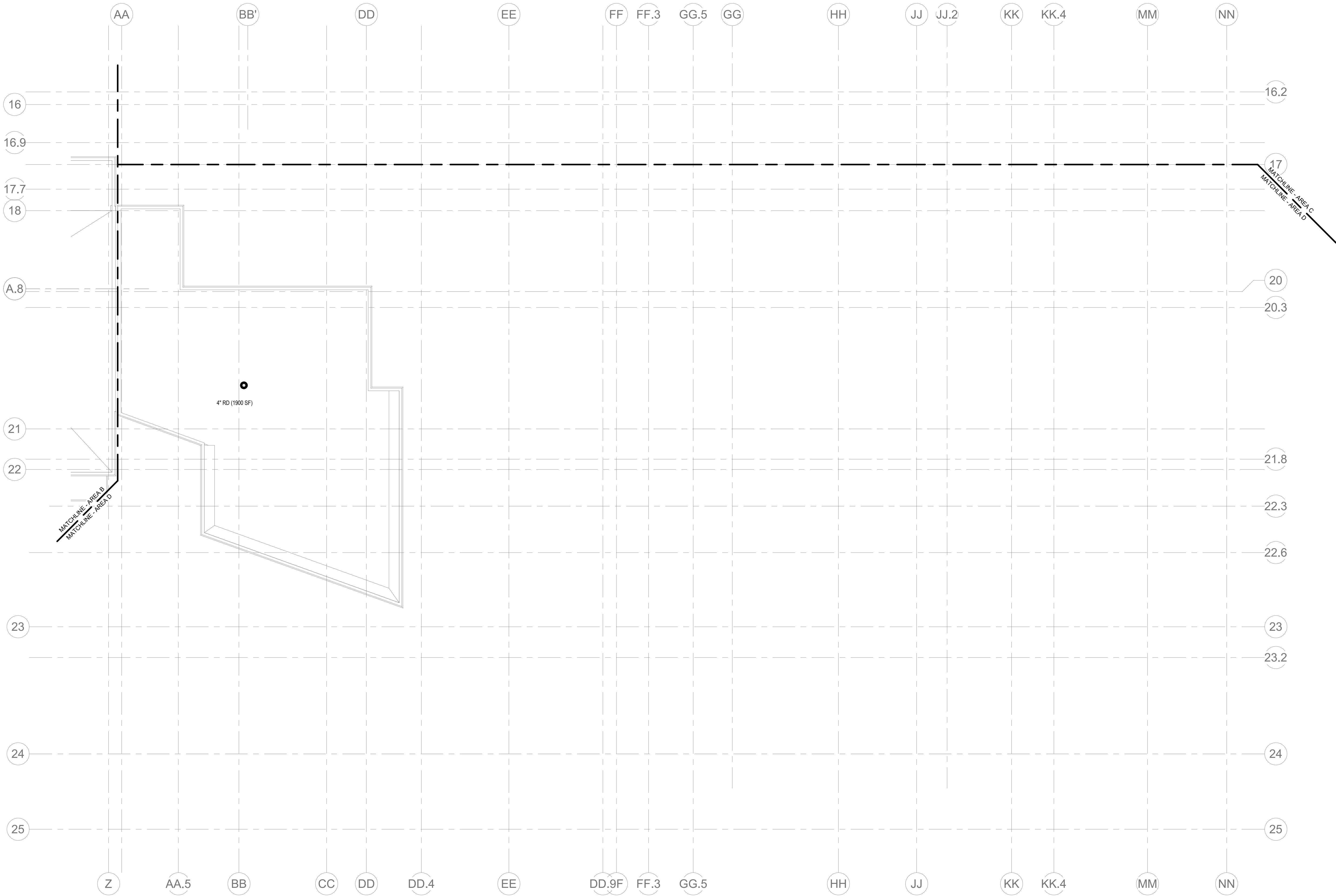
SCOPE NOTES:  
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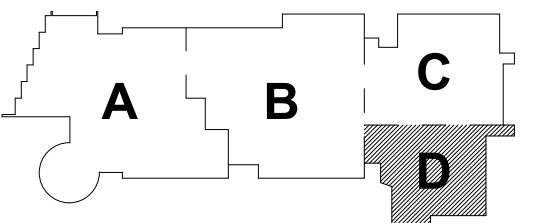


1 PLUMBING Main Roof Area D  
1/8" = 1'-0"

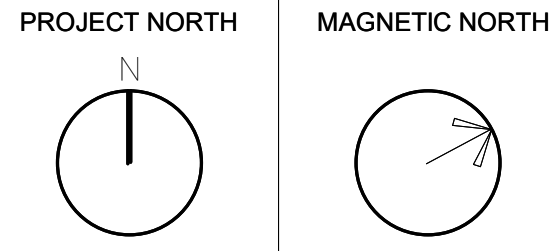
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KEY PLAN

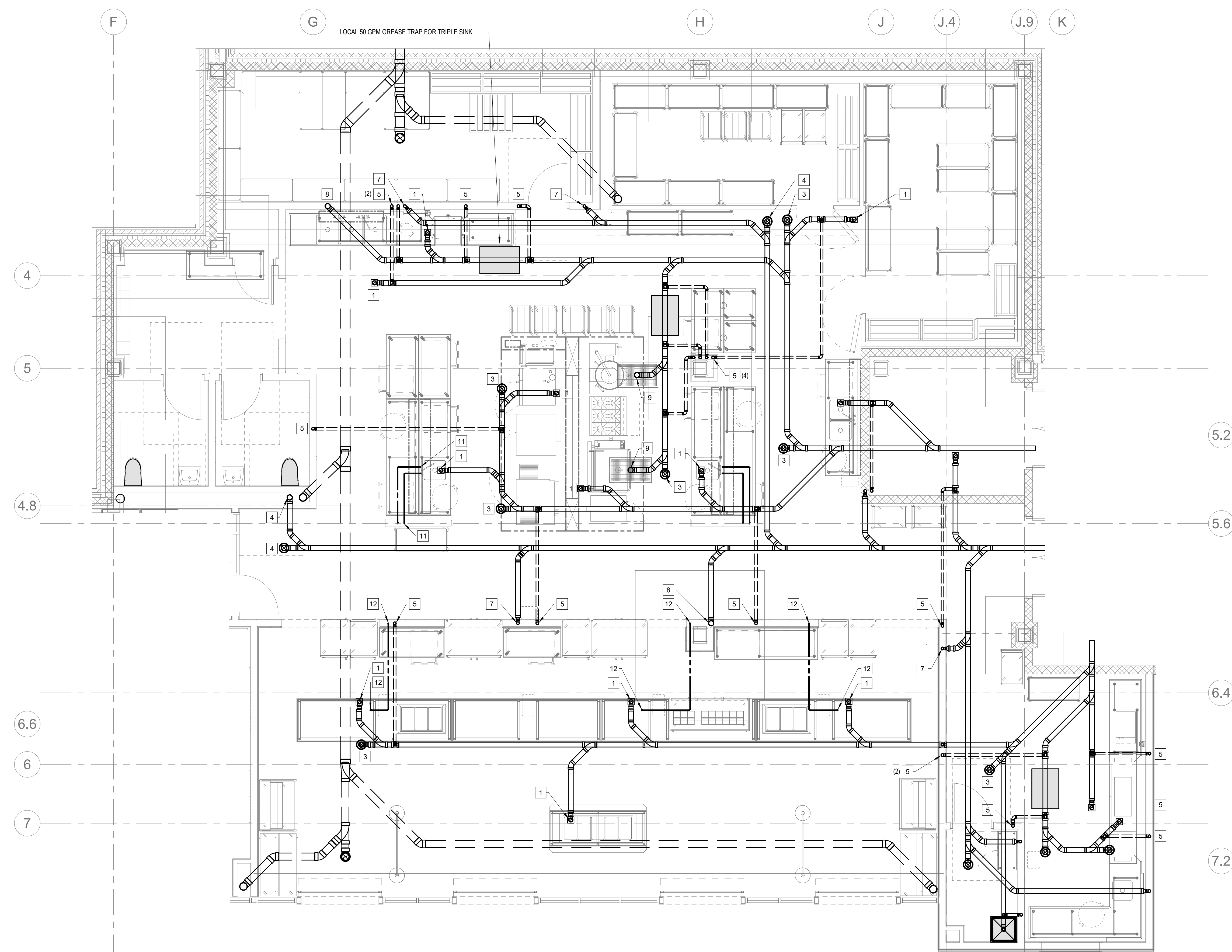


PLUMBING ROOF  
PLAN - AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
P1-2-1D

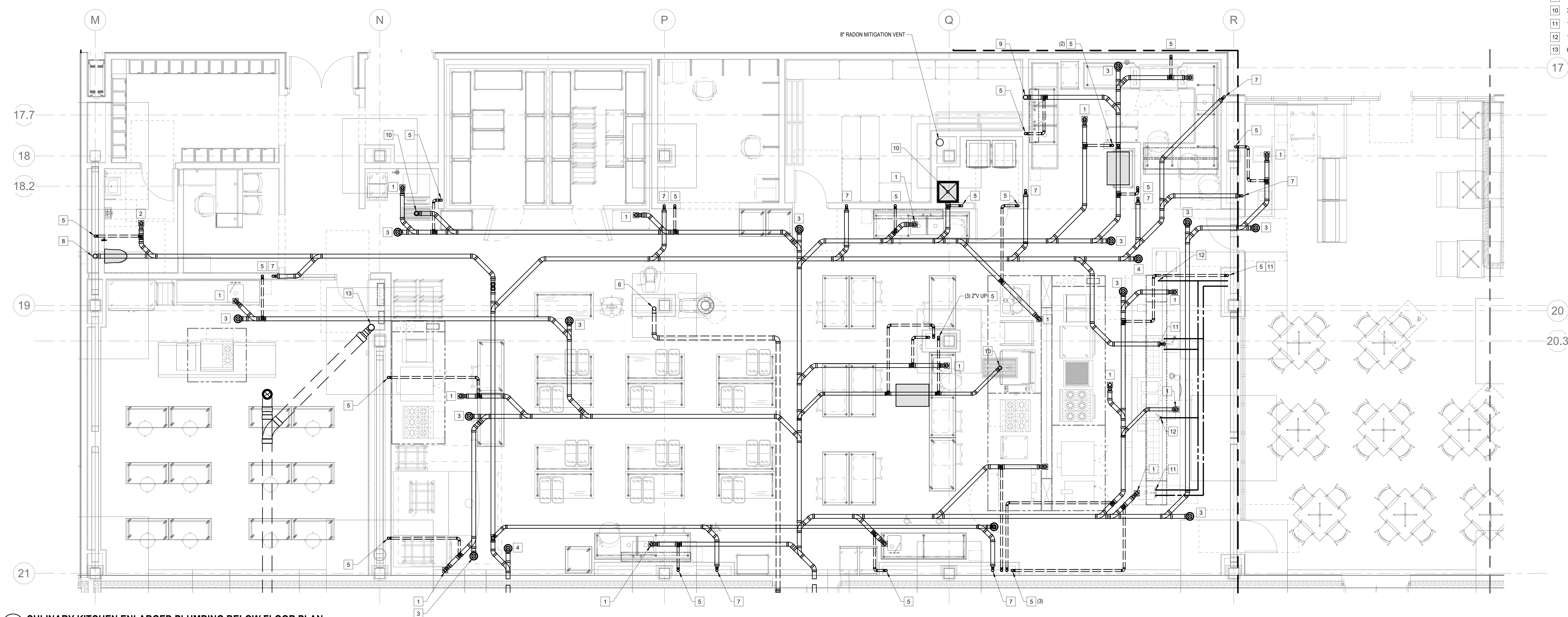
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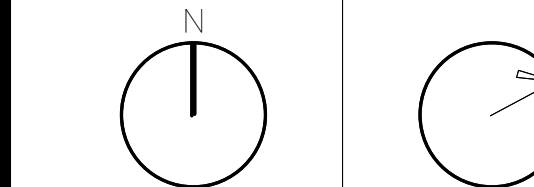
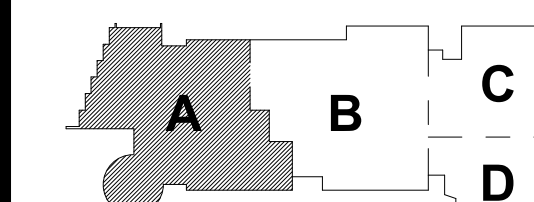


1 MAIN KITCHEN ENLARGED PLUMBING BELOW FLOOR PLAN  
P2-0-0A 1/4" = 1'-0"

- | KEY NOTES: |                |
|------------|----------------|
| 1          | 3"KW & T       |
| 2          | 3"W & T        |
| 3          | 4"KW UP TO FCO |
| 4          | 4"W UP TO FCO  |
| 5          | 2"V UP         |
| 6          | 4"V UP         |
| 7          | 2"W UP         |
| 8          | 4"W UP         |
| 9          | 4"KW UP        |
| 10         | 3"KW UP        |
| 11         | 1/2"H&CW UP    |
| 12         | 1/2"HW UP      |
| 13         | 6"ST UP        |



2 CULINARY KITCHEN ENLARGED PLUMBING BELOW FLOOR PLAN  
P2-0-0A 1/4" = 1'-0"

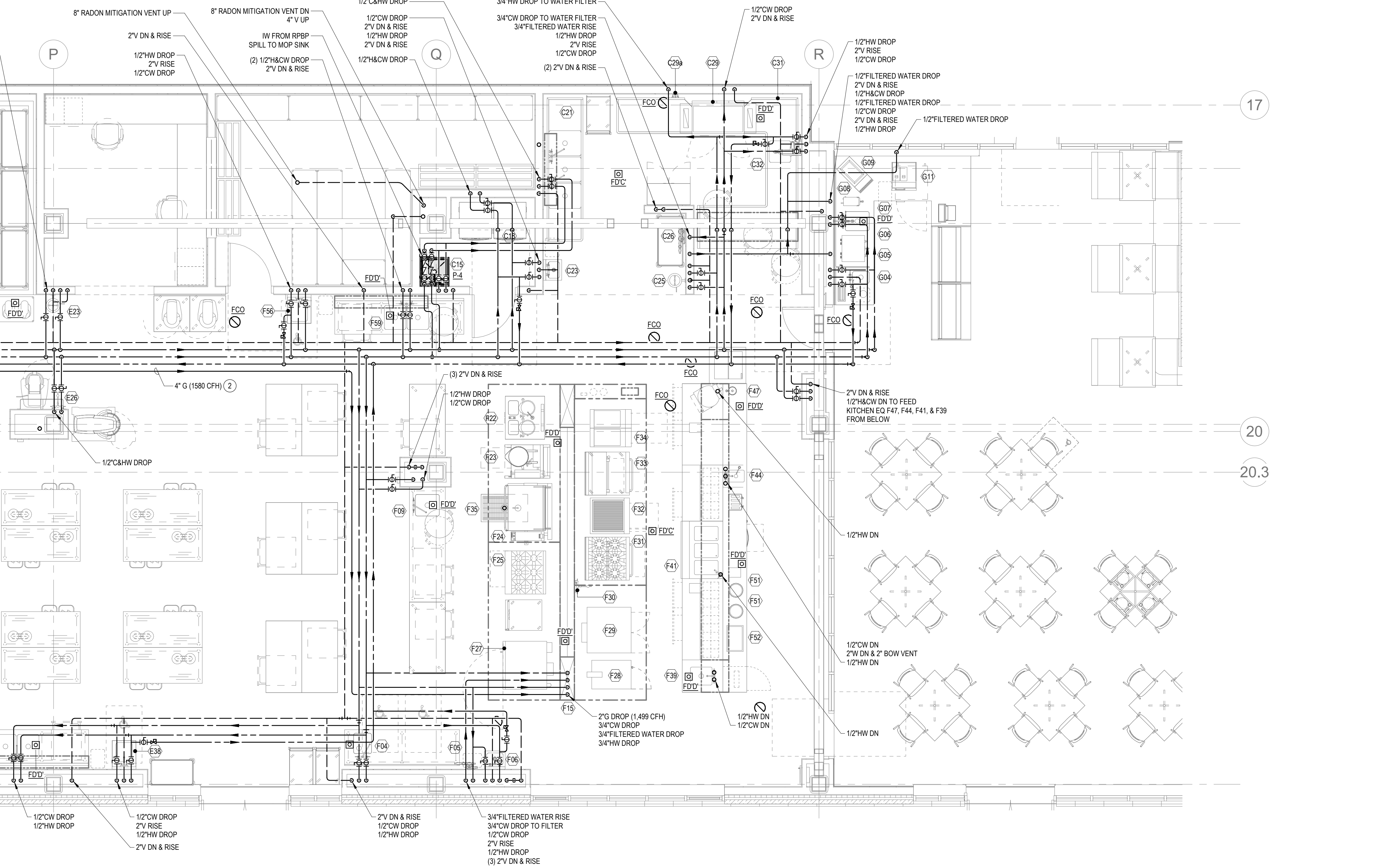


## PLUMBING BELOW FLOOR ENLARGED PLANS

KITCHEN EQUIPMENT PLUMBING FIXTURE SCHEDULE									
ITEM	QTY	DESCRIPTION	CW	HW	G	W	W	COMMENTS	
A06	1	COOLER EVAPORATOR COIL					1"		
A06	1	FREEZER EVAPORATOR COIL					1"		
A06	1	FREEZER EVAPORATOR COIL					1"		
A12	1	THREE-COMPARTMENT SINK	(2) 3/4"	2 (3/4")		(3) 2"	1"	120" HW, WASTE MANIFOLD THRU GI BY PC, PROVIDE RP'S FOR WATER LINES TO FIXTURE	
A15	1	DISPOSER	(2) 1/2"						
A16	1	HOSE REEL ASSEMBLY	1/2"	1/2"			5/8" (TO FS)		
A17	1	WATERWASHER, DOOR-TYPE, VENTLESS	3/4" (55 F MIN)						
A19	3	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
A26	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"			2" (TO FS)		
A30	1	COMBINATION OVEN/STEAMER, ROLL-IN	3/4"			3/4"	2" (TO FS)	G @ 160 MBTU	
A31	1	DOUBLE CONVECTION OVEN	1/2"			3/4"	2" (TO FS)	G @ 100 MBTU	
A32	1	CONVEYER OVEN ON STAND	1/2"			3/4"	2" (TO FS)	G @ 40 MBTU	
A33	1	TEN-PAN STEAMER	1/2"			3/4"	2" (TO FS)	G @ 84 MBTU	
A34	1	FORTY-GALLON TILTING BRAISING PAN	1/2"			3/4"	2" (TO FS)	G @ 144 MBTU	
A35	1	SIX-BURNER RANGE WITH OVEN	1/2"			3/4"	2" (TO FS)	G & 215 MBTU	
A36	1	FORTY-GALLON TILTING KETTLE	1/2"			3/4"	2" (TO FS)	G @ 100 MBTU	
A38	1	UTILITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"	3"		G & 843 MBTU (1,750 MBTU SYSTEM CAPACITY)	
A40	2	FLOOR PAN & GRATE	1/2"					W CONNECTION 7' BFF	
A47	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"			2" (TO FS)		
A49	1	WATER FILTER ASSEMBLY	3/4"						
A53	1	PREP TABLE WITH SINKS	1/2"	1/2"		(2) 2" (TO FS)			
A55	1	WATER FILTER ASSEMBLY	1/2"						
A56	1	EXISTING COFFEE BREWER	1/2" (FILTERED)						
B11	1	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
B14	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (MANIFOLD TO FS)		
B17	3	FILL FAUCET							
B18	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (MANIFOLD TO FS)		
B21	1	COLD PAN, DROP IN					1" (TO FS)		
B26	1	COLD PAN, DROP IN					1" (TO FS)		
B29	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (TO FS)		
B38	1	COLD PAN, DROP IN					1" (TO FS)		
B44	1	MOP SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"					
B49	1	EXISTING WAREWASHER, CONVEYER TYPE	1/2" (DRAIN TEMPERING)			3/4"	1-1/4" (TO FS)	DRAIN IN FLOOR, PROVIDE RP'S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE	
B49	1	WATER FILTER ASSEMBLY							
B49	1	BOOSTER HEATER, LARGE COMPACT							
B51	1	HOSE REEL ASSEMBLY	1/2"	1/2"			2"		
B52	1	SOLED TRAY TABLE WITH SCRAP SINK & INTEGRAL PASS-THRU WINDOW FRAME							
B55	1	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
C02	1	WATER FILTER ASSEMBLY	1/2"						
C03	1	ICE MAKER WITH BIN	1/2" (FILTERED)			3"	(1) 1/2", (1) 3/4" (TO FS)	W CONNECTION 7' BFF	
C04	1	FLOOR PAN & GRATE							
C07	1	COOLER EVAPORATOR COIL					1"	W TO FD BY KEC	
C07	1	FREEZER EVAPORATOR COIL					1"	W TO FD BY KEC	
C15	1	MOP SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"				DRAIN IN FLOOR, PROVIDE RP'S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE	
C18	1	FRONT LOAD CLOTHES DRYER	1/2"	1/2"					
C21	1	THREE-COMPARTMENT SINK	(2) 3/4"	(2) 3/4"		(3) 2"	1"	120" HW, WASTE MANIFOLD THRU GI BY PC, PROVIDE RP'S ON WATER LINES TO FIXTURE	
C23	1	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
C25	1	EYE/FADE WASH	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F	
C26	1	WATER FILTER ASSEMBLY	3/4"						
C26	1	WAREWASHER, BACK CONVEYER	1/2" (DRAIN TEMPERING)			3/4"	2" (TO FS)	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F	
C26a	1	WATER FILTER ASSEMBLY							
C31	1	SOLED WARE TABLE WITH SCRAP SINK					2"		
C32	1	HOSE REEL ASSEMBLY	1/2"	1/2"			2" (TO FS)		
D04	1	WORK COUNTER WITH SINK	1/2"	1/2"			2" (TO FS)		
D07	1	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
D11	1	TWO-BURNER GRIDDLE RANGE WITH OVEN				3/4"	1/2"	G & 15 MBTU, GD	
E06	1	DONUT FRYER WITH FILTER DRAWER				3/4"	1/2"	G @ 72 MBTU, GD	
E07	1	DOUBLE CONVECTION OVEN				3/4"	2"	G & 100 MBTU, GD	
E08	1	SIX-BURNER RANGE WITH OVEN				3/4"	2"	G & 215 MBTU, GD	
E12	1	WATER FILTER ASSEMBLY	3/4"						
E13	1	ROTATING DOUBLE RACK OVEN	1/2" (FILTERED)			1/2"	(TO FS)		
E14	1	ROLL-IN PROOFER CABINET	1/2" (FILTERED)			1/2"	(TO FS)		
E23	1	EYE/FADE WASH	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F	
E26	1	FILL FAUCET	1/2"	1/2"			(2) 2" (TO FS)		
E36	1	PREP TABLE WITH SINKS	1/2"	1/2"		1-1/2"			
E38	1	ADA COMPLIANT HAND SINK	1/2"	1/2"		1-1/2"			
F04	1	ADA COMPLIANT PREP STATION TABLE WITH SINK	1/2"	1/2"		1-1/2"	(TO FS)		
F06	1	WATER FILTER ASSEMBLY	3/4"						
F08	1	HAND SINK	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
F09	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"		2"	(TO FS)		
F10	1	UTILITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"			G @ 1,489 MBTU (LOOPED SERVICE) (2,350 MBTU SYSTEM CAPACITY)	
F22	1	DOUBLE TWENTY-QUART TILTING KETTLE	1/2" (FILTERED)			1/2"	1-1/4" (TO FS)	G & 200 MBTU	
F23	1	FORTY-QUART KETTLE WITH DRAIN CART STAND	1/2"			1/2"	1-1/2" (TO FS)	G & 52 MBTU	
F24	1	FORTY-GALLON TILTING BRAISING PAN	1/2"			1/2"	1-1/2" (TO FS)	G & 144 MBTU	
F25	1	SIX-BURNER RANGE WITH OVEN	1/2"			3/4"	2" (TO FS)	G & 215 MBTU	
F27	1	COMBINATION OVEN ON MOBILE STAND	3/4" (FILTERED)			3/4"	2" (TO FS)	G @ 115 MBTU	
F28	1	TEN-PAN STEAMER	1/2" (FILTERED)			3/4"	1-1/2" (TO FS)	G & 84 MBTU	
F29	1	CONVECTION OVEN	1/2" (FILTERED)			3/4"	2" (TO FS)	G & 92 MBTU	
F30	1	FILL FAUCET	1/2"	1/2"					
F31	1	SIX-BURNER RANGE WITH OVEN & BACKSHELF BROILER				1"		G @ 252 MBTU	
F32	1	HEAVY DUTY UNDERFRED BROILER				3/4"		G & 98 MBTU	
F33	1	GRIDDLE RANGE WITH OVEN & BACKSHELF BROILER				1"		G & 132 MBTU	
F34	1	FRYER ASSEMBLY WITH FILTER DRAWER				3/4"		G & 100 MBTU	
F35	1	FLOOR PAN & GRATE					3"	W CONNECTION 7' BFF	
F38	1	WORK SINK (PART OF ASSEMBLY)	1/2"	1/2"			2" (TO FS)		
F41	1	STEAM TABLE THREE-WELL (PART OF ASSEMBLY)	1/2"	1/2"		1-1/2"	1" (TO FS)		
F44	1	HAND SINK (PART OF ASSEMBLY)	1/2"	1/2"		1-1/2"		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F	
F47	1	DIPPERWELL & FAUCET	1/2"	1/2"					
F51	2	SOAP WELL, DROP-IN					1/2" (MANIFOLD TO FS)		
F52	1	HOT FOOD WELL, DROP-IN					1/2" (TO FS)		
F56	1	ADA COMPLIANT HAND SINK	1/2"	1/2"		1-1/2"			
F59	1	PREP TABLE WITH SINKS	1/2"	1/2"		1-1/2"	(2) 2" (TO FS)		
G04	1	UNDERMOUNT HAND SINK WITH FAUCET & SOAP DISPENSER	1/2"	1/2"		1-1/2"			
G05	1	COFFEE BREWER (BY OWNER'S VENDOR)	1/2" (FILTERED)						
G06	1	PRE-RINSE UNIT WITH ADO-ON FAUCET	1/2"	1/2"					
G07	1	UNDERMOUNT WORK SINK	1/2"	1/2"		1-1/2"	(TO FS)		
G08	1	HOT WATER DISPENSER	1/2" (FILTERED)						
G09	1	ICE DISPENSER, MANUAL FILL	1/2" (FILTERED)			3/4"	(TO FS)		
G11	1	ESPRESSO MACHINE (BY OWNER'S VENDOR)	1/2" (FILTERED)			3/4"	(TO FS)		

1 MAIN KITCHEN ENLARGED PLUMBING PLAN

P2-1-1A 1/4" = 1'-0"



2 CULINARY KITCHEN ENLARGED PLUMBING PLAN

P2-1-1A 1/4" = 1'-0"



DRA

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Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

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BALA  
ENGINEERS

MSBA 60% CD  
SUBMISSION

January 13, 2023

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

PLUMBING FIRST  
FLOOR  
ENLARGED  
PLANS

Scale: 1/4" = 1'-0"

Job No.: 20022

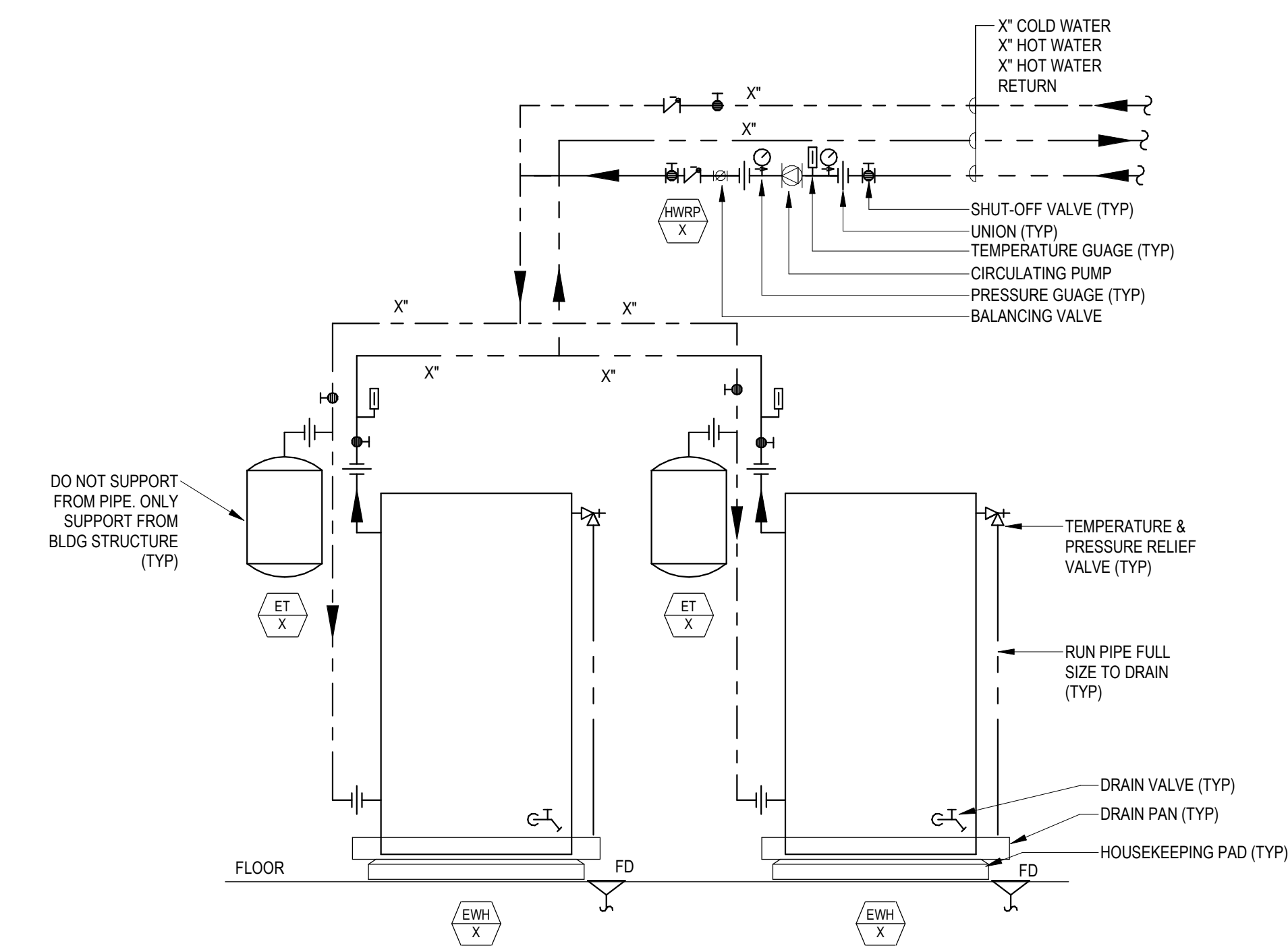
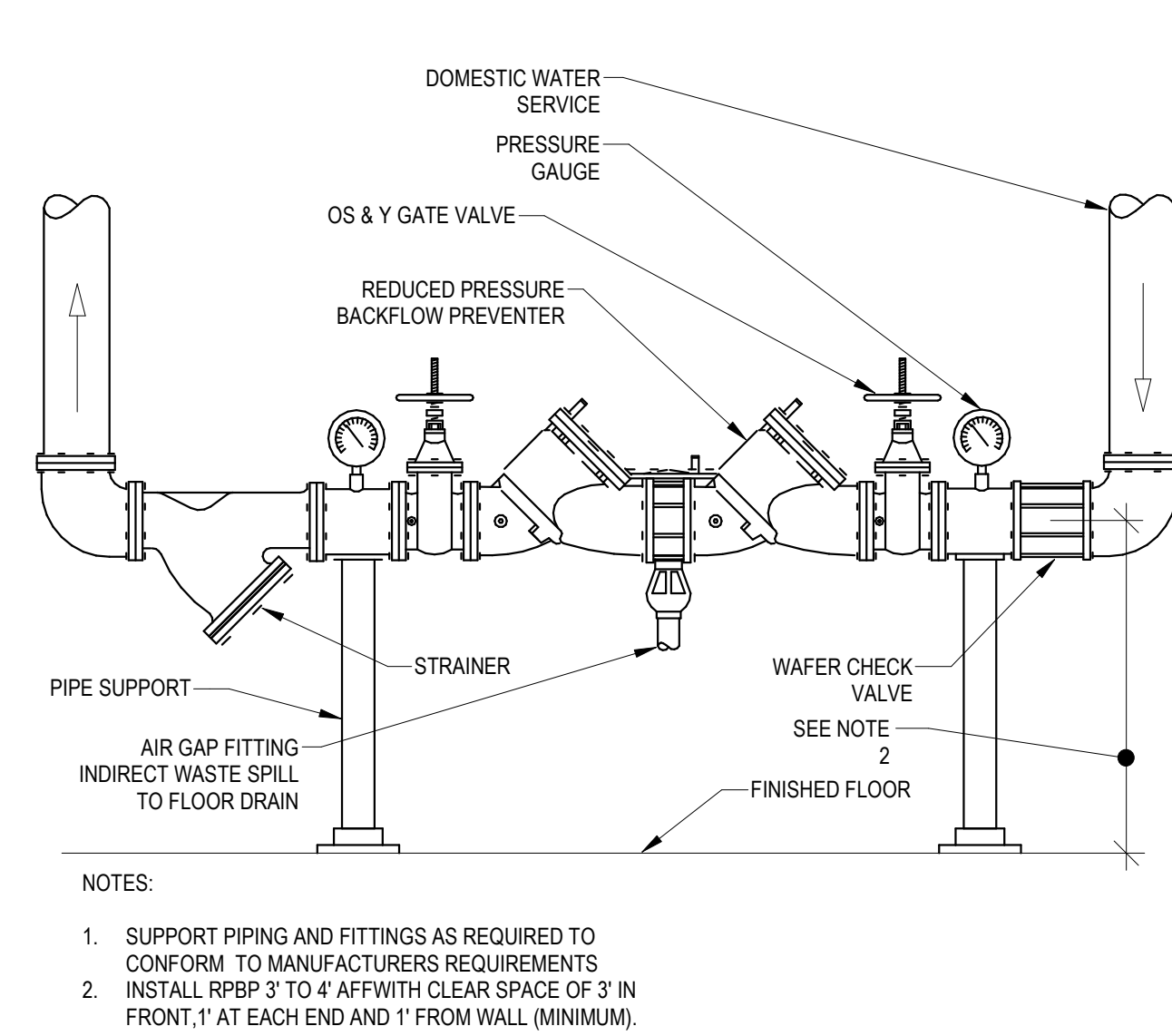
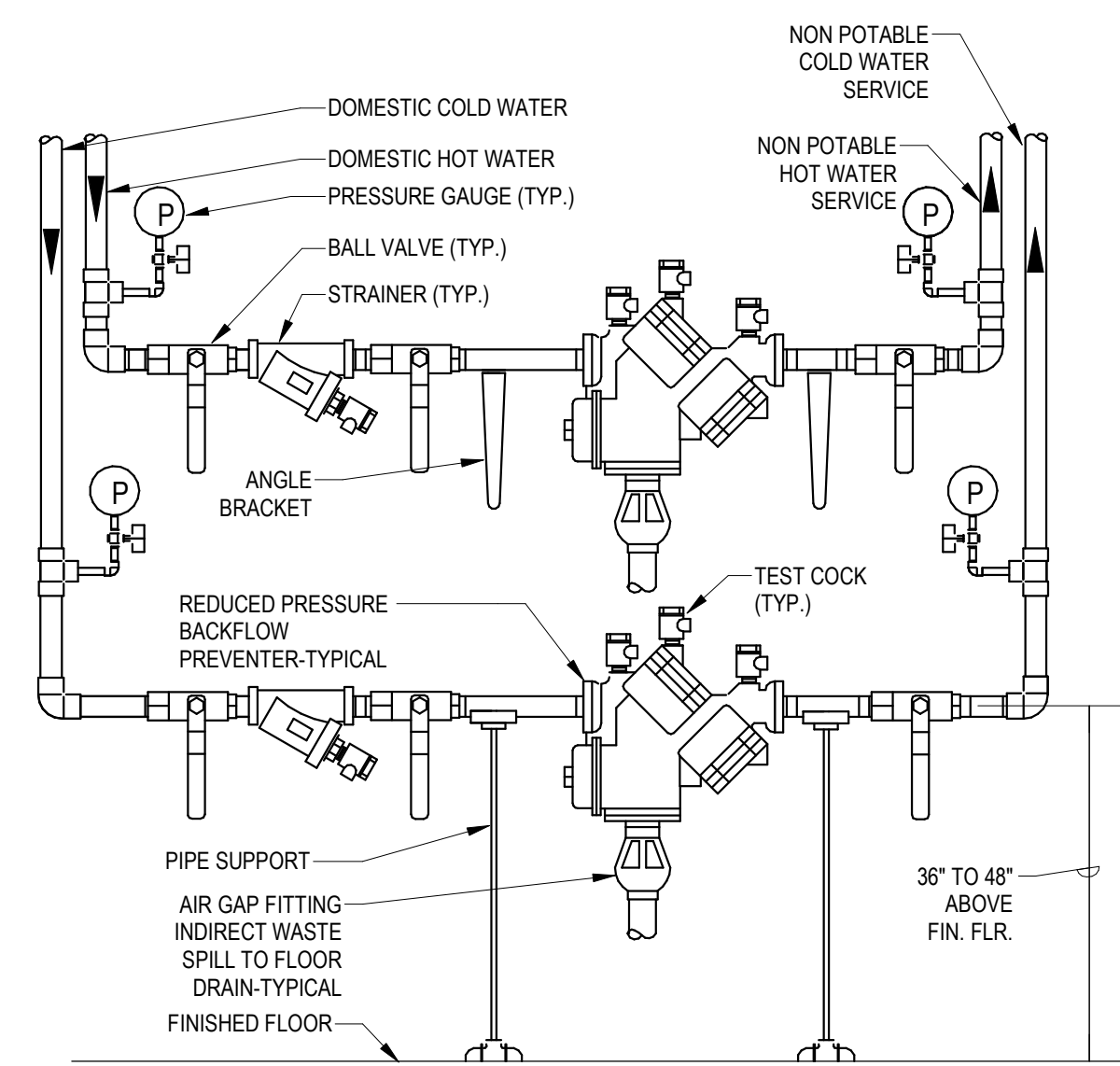
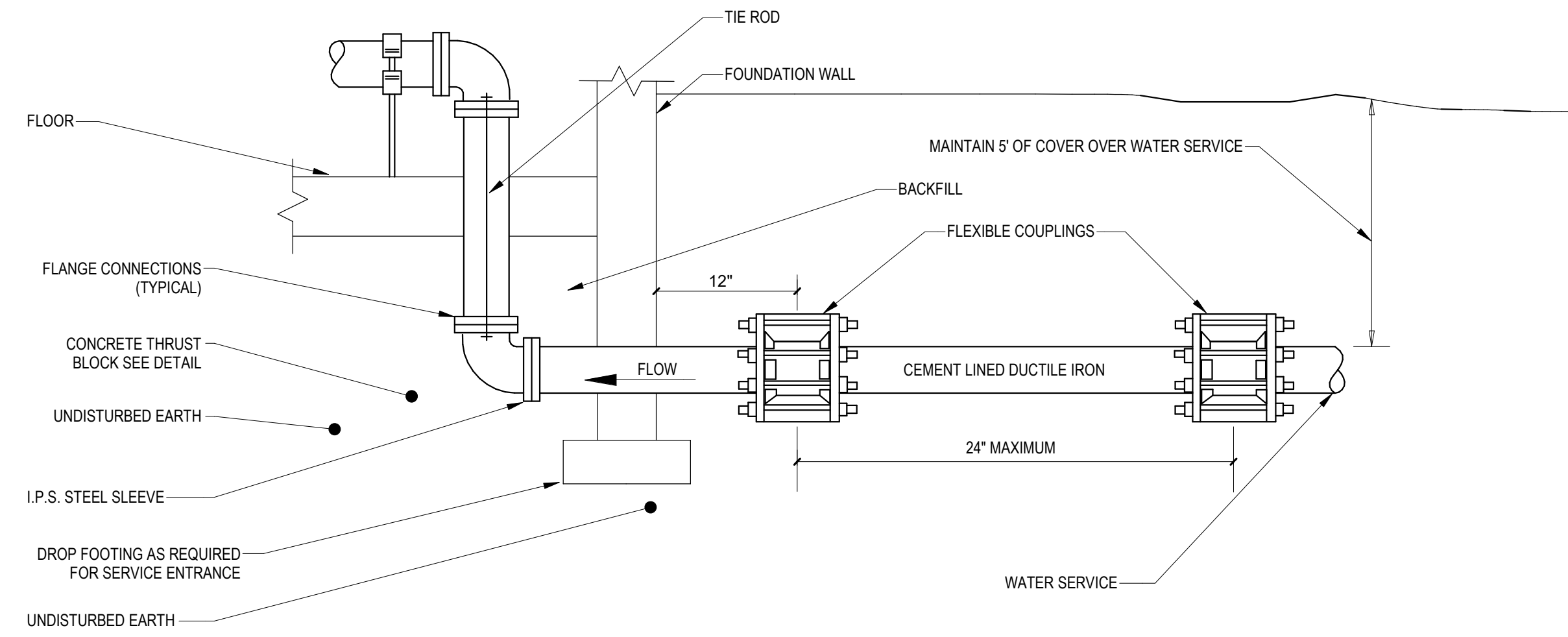
Drawn By: DRA

Date: January 13, 2023

P2-1-1A

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

**1 WATER SERVICE ENTRANCE (THRU FLOOR)**

P3-0-1 N.T.S.

**2 STACKED REDUCED PRESSURE BACKFLOW PREVENTERS**

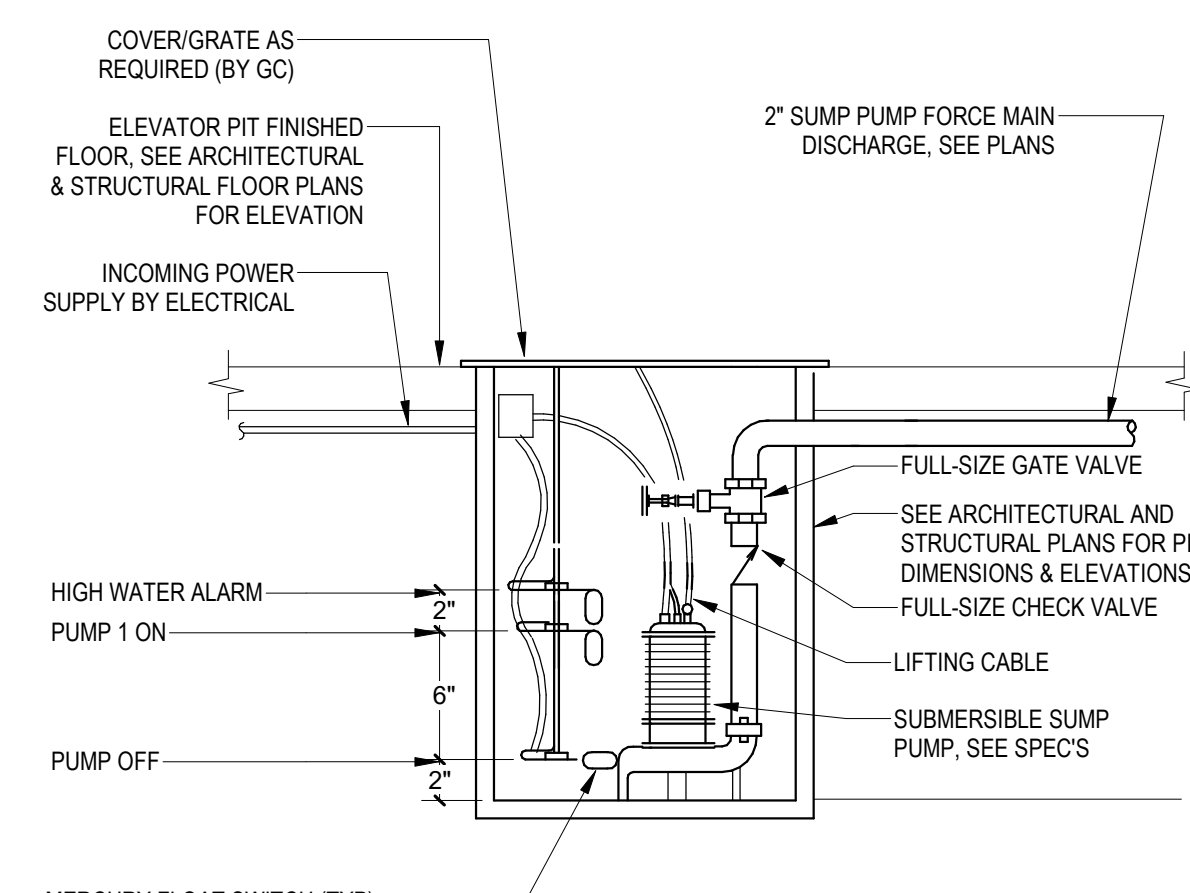
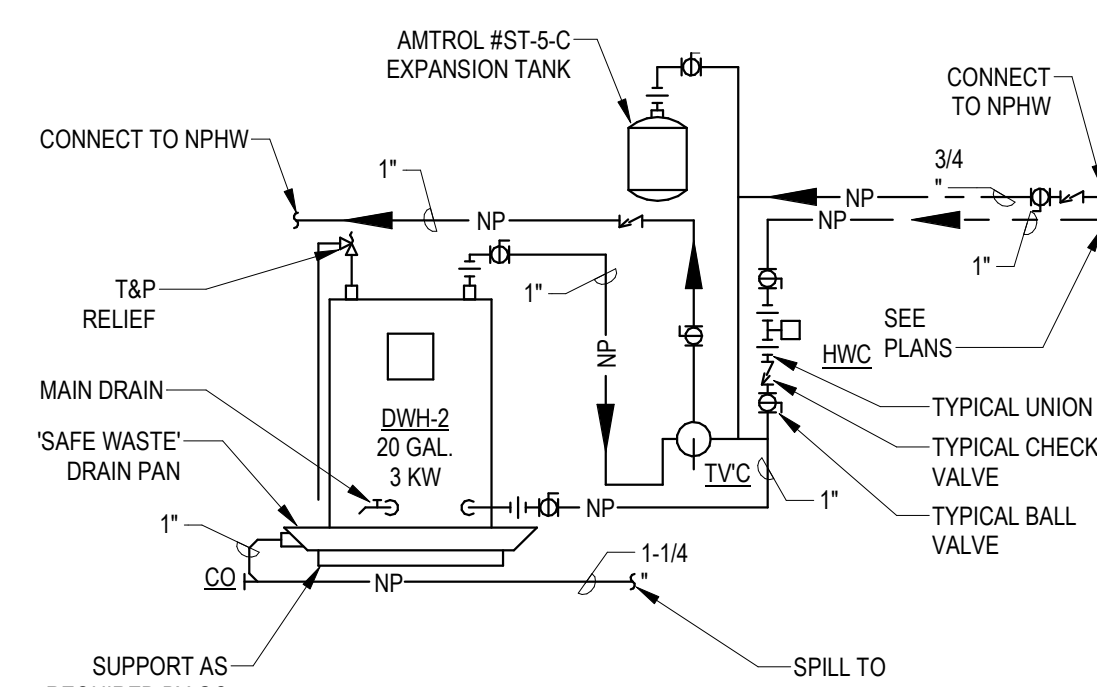
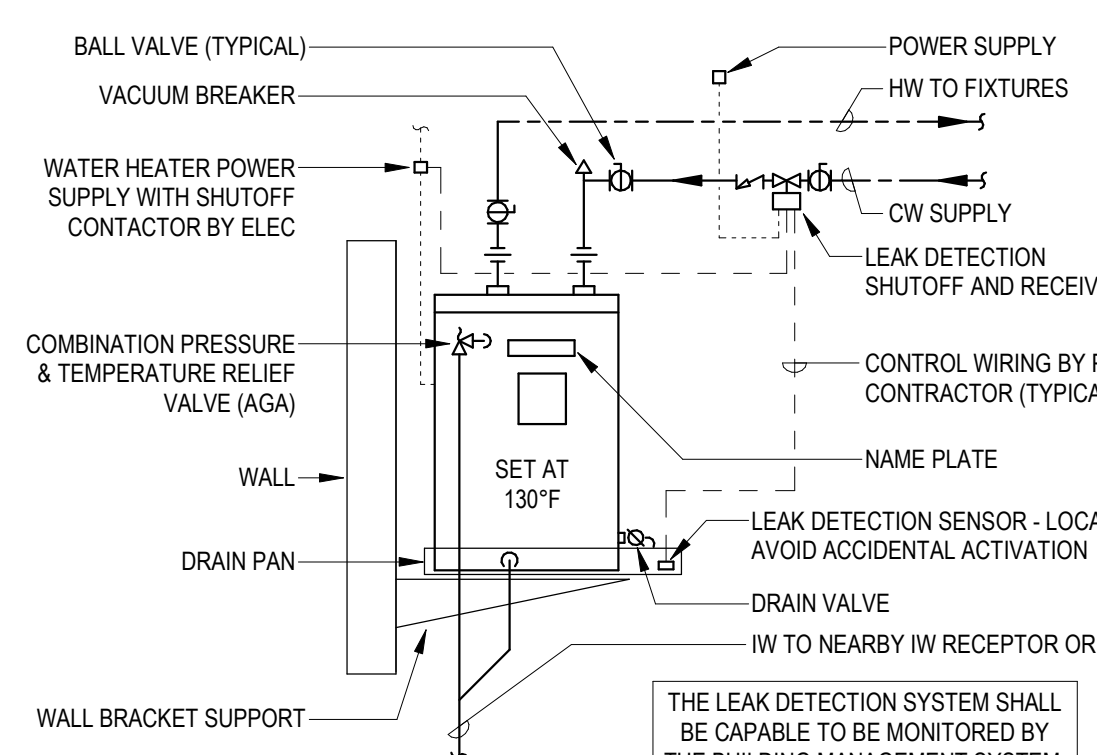
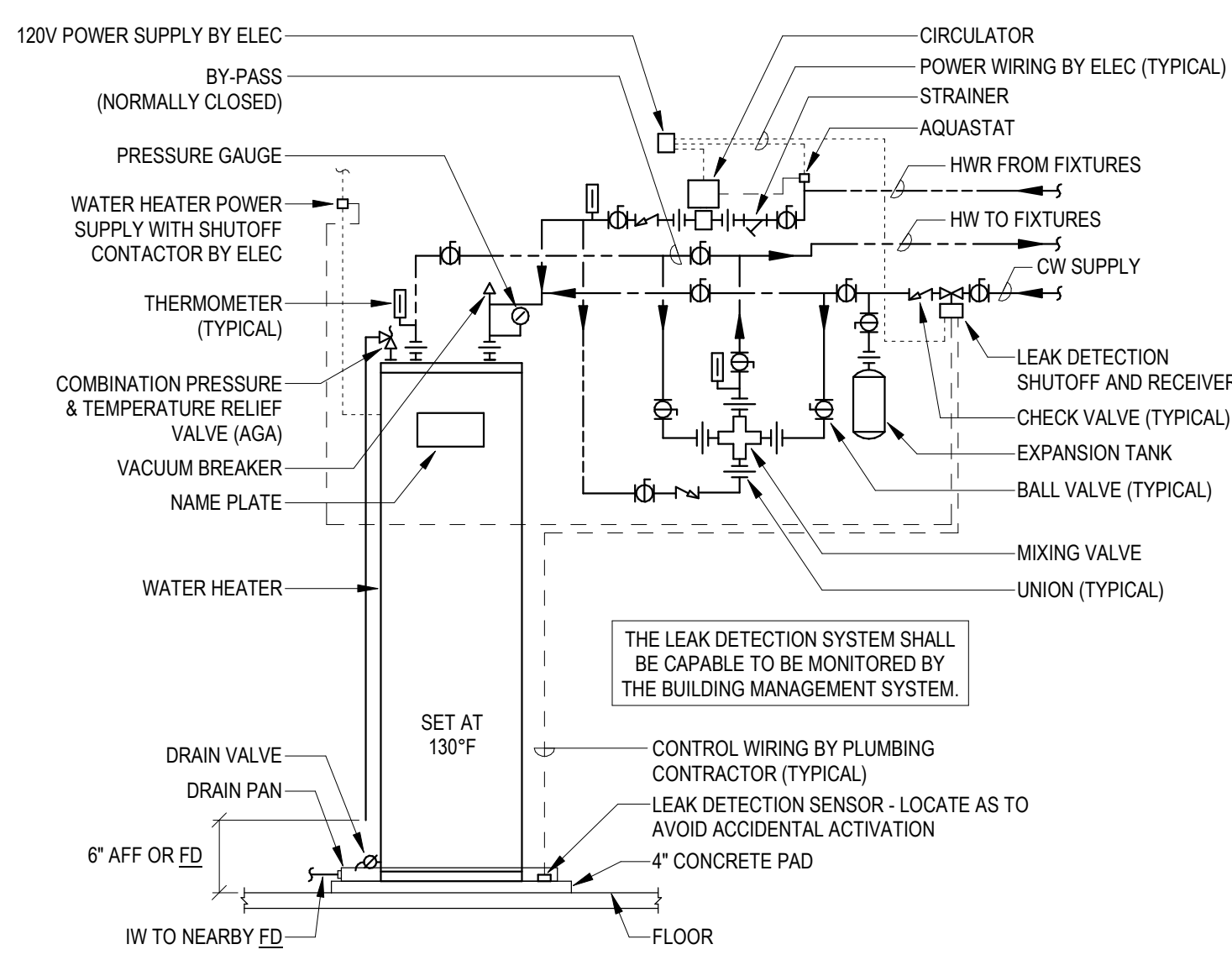
P3-0-1 N.T.S.

**3 REDUCED PRESSURE BACKFLOW PREVENTER (LARGE BFP)**

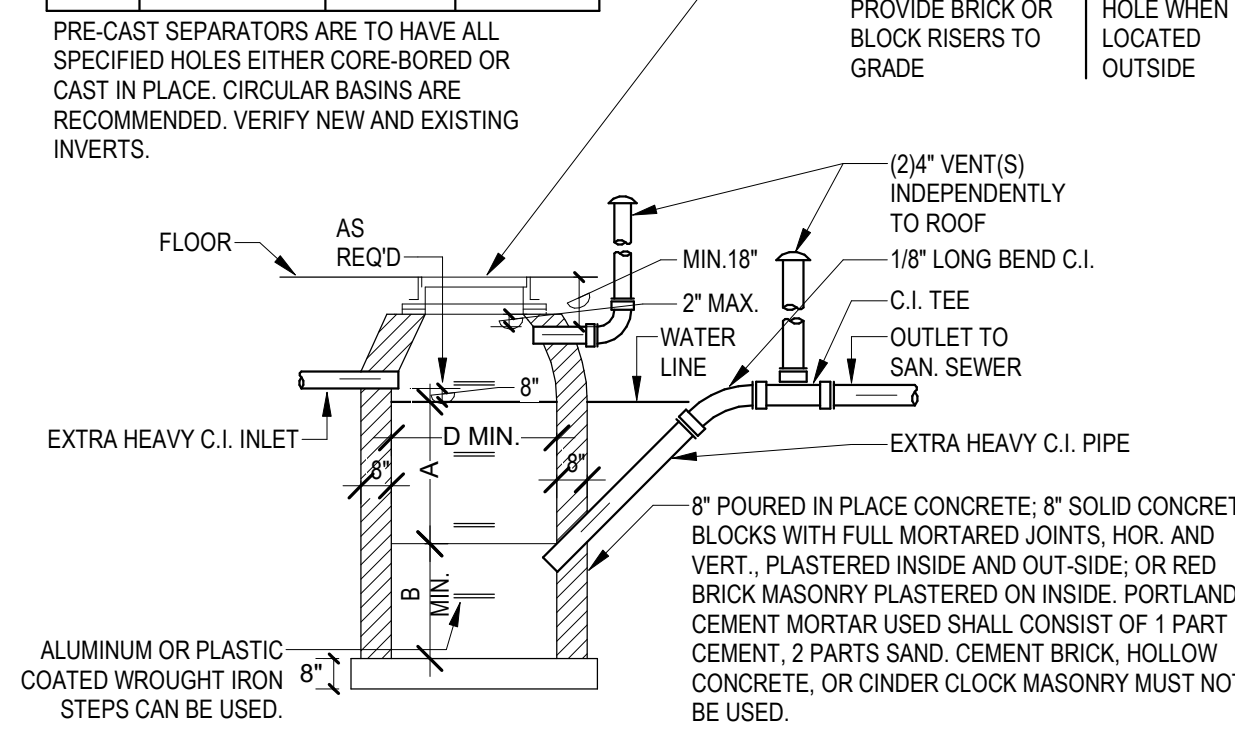
P3-0-1 N.T.S.

**4 ELECTRIC WATER HEATER PIPING DETAIL (DUPLEX)**

P3-0-1 N.T.S.



INLET	D	A	B
4"	3'-0"	3'-0"	2'-6"
5"	3'-6"	3'-6"	3'-0"
6"	4'-0"	4'-0"	3'-6"
8"	4'-6"	4'-6"	4'-0"
10"	5'-0"	5'-0"	4'-6"

**5 ELECTRIC WATER HEATER - FLOOR MOUNTED (W/ CIRCULATION)**

P3-0-1 N.T.S.

**6 ELECTRIC WATER HEATER - SUSPENDED**

P3-0-1 N.T.S.

**7 NPHW TEMPERATURE MAINTENANCE STATION**

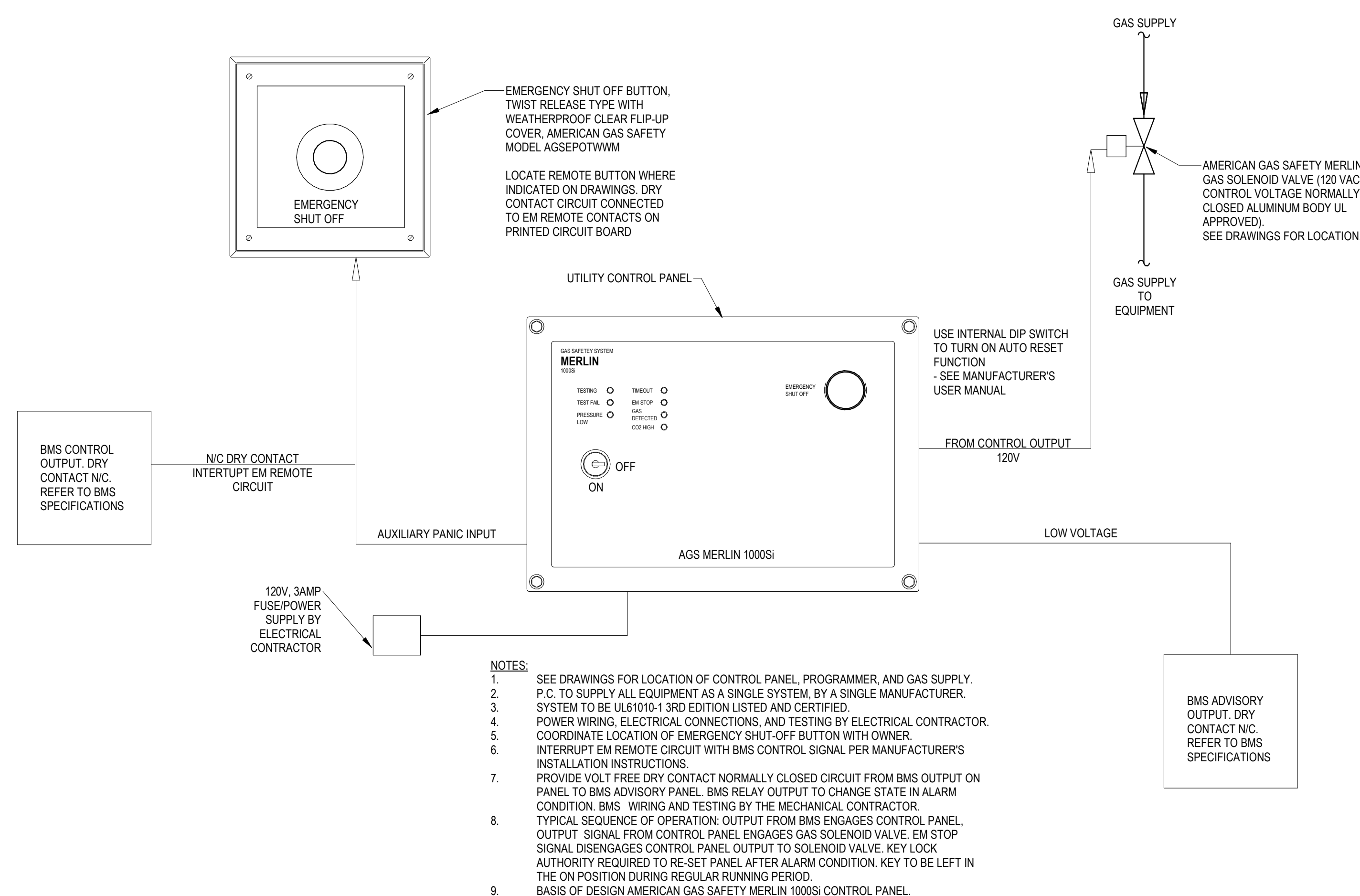
P3-0-1 N.T.S.

**8 SIMPLE ELEVATOR PIT SUMP PUMP**

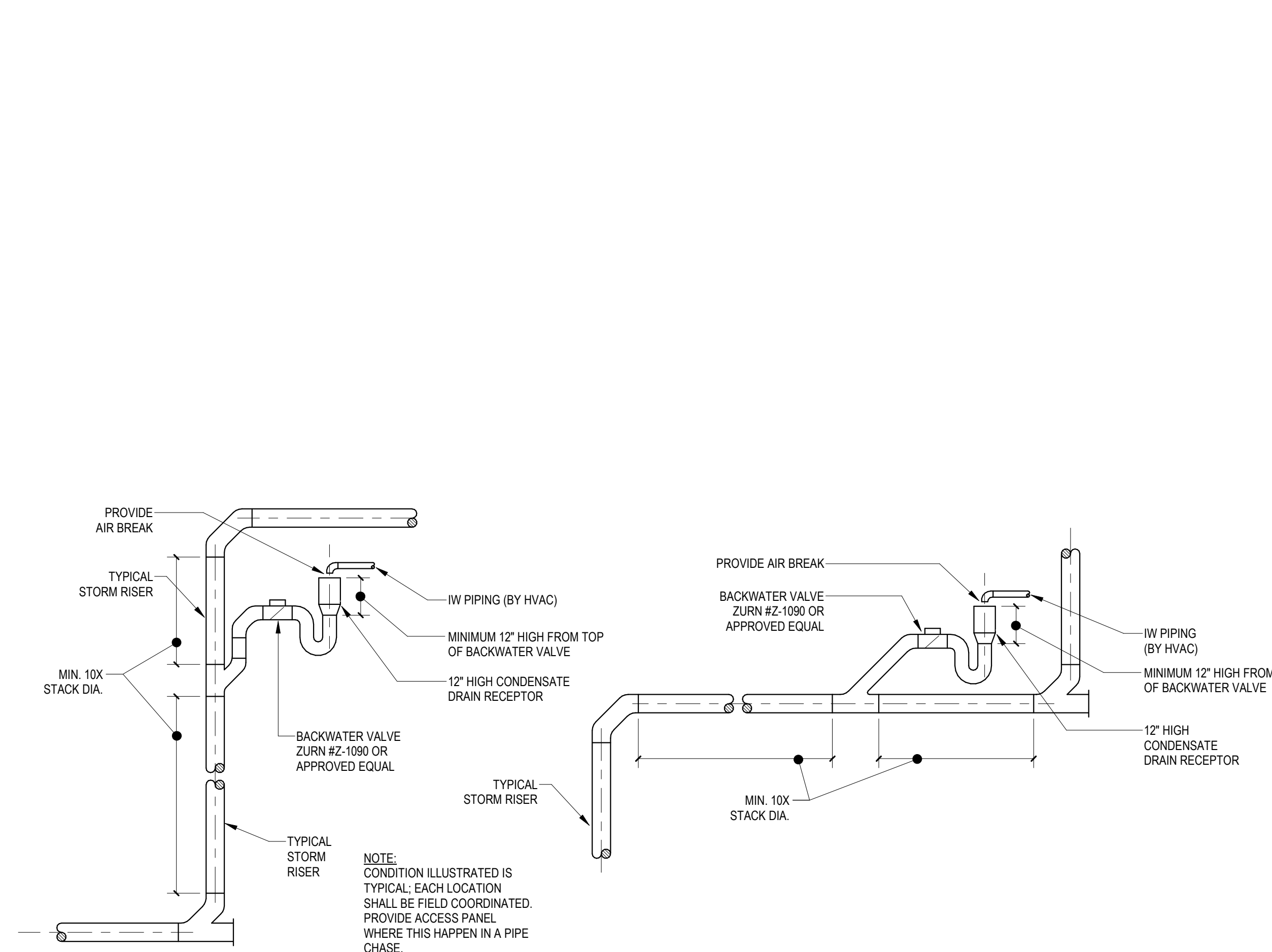
P3-0-1 N.T.S.

**9 GASOLINE / SAND INTERCEPTOR**

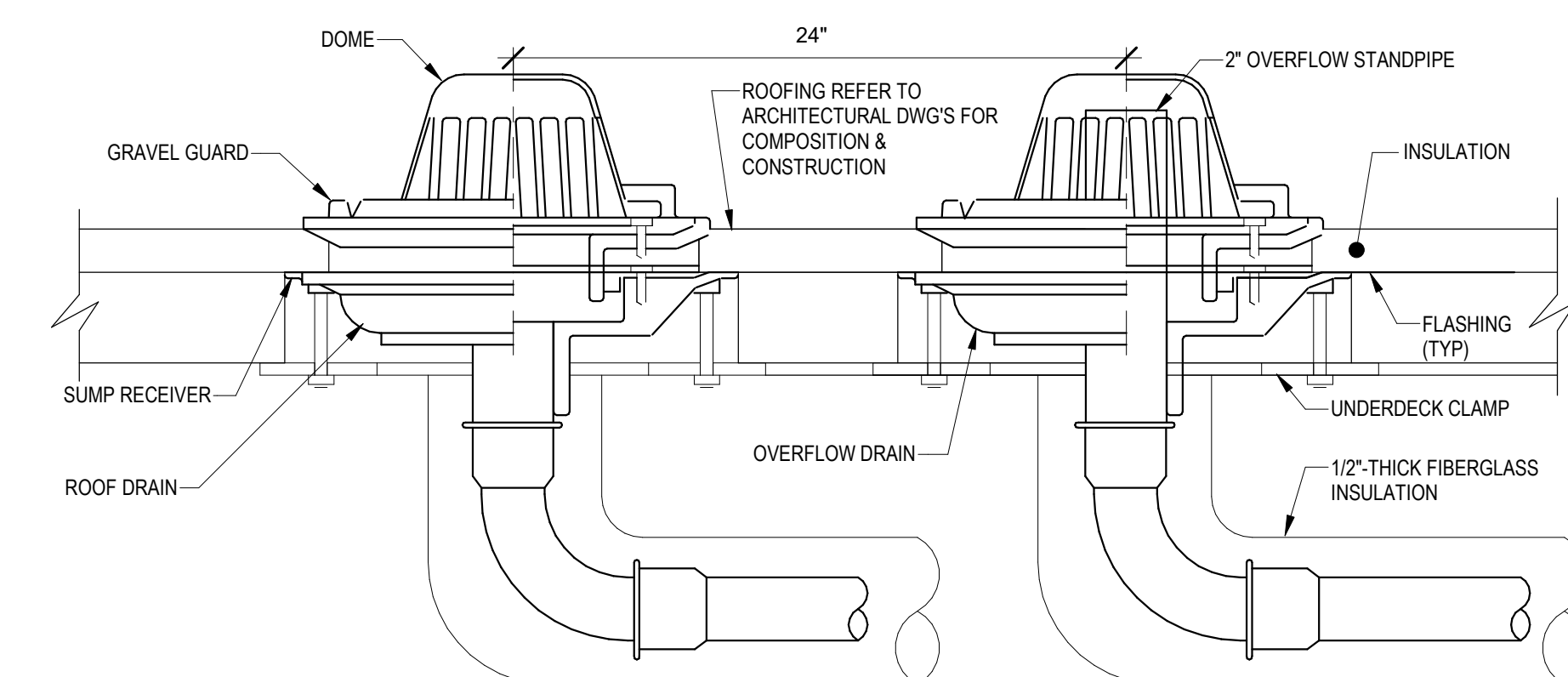
P3-0-1 N.T.S.

**10 GAS SAFETY CONTROL DETAIL**

P3-0-1 N.T.S.

**11 CONDENSATE RECEPTOR**

P3-0-1 N.T.S.

**12 PRIMARY ROOF DRAIN AND INDEPENDENT OVERFLOW DRAIN DETAIL**

P3-0-1 N.T.S.

PLUMBING FIXTURE SCHEDULE						
NO.	FIXTURE	MANUFACTURER	FAUCET/FLUSH VALVE	CARRIER / SUPPORT	MISC.	
P-1	WATER CLOSET	TOTO	TOTO	WALL MOUNTED	1.28 GPF	
P-1A	WATER CLOSET	TOTO	TOTO	WALL MOUNTED	1.28 GPF, ACCESSIBLE	
P-2	URINAL	TOTO	TOTO	WALL MOUNTED	0.125 GPF	
P-2A	URINAL	TOTO	TOTO	WALL MOUNTED	0.125 GPF, ACCESSIBLE	
P-3A	WALL MOUNTED LAVATORY	AMERICAN STANDARD	SLOAN	WALL MOUNTED	0.35 GPM FAUCET	
P-3B	Basin Type Lavatory	BRADLEY	SLOAN		0.35 GPM FAUCET	
P-3C	RESTROOM LAVATORY	BRADLEY	SLOAN		0.35 GPM FAUCET	
P-3D	CIRCULAR LAVATORY	BRADLEY	SLOAN	FLOOR MOUNTED	0.35 GPM FAUCET	
P-4	MOP SINK	STERN WILLIAMS	CHICAGO			
P-5	DRINKING FOUNTAIN	HANLEY TAYLOR	NA		120V POWER CONNECTION REQUIRED	
P-6	SHOWER	SYMMONS	SYMMONS VALVE		1.5 GPM SHOWERHEAD, SHOWER BASE BY ARCHITECT, DRAIN BY PC	
P-7	EMERGENCY EYEWASH/SHOWER STATION	GUARDIAN		FREE STANDING	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER	
P-8	EMERGENCY EYEWASH/SHOWER STATION	GUARDIAN		RECESSED IN WALL	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER	
P-8A	EMERGENCY EYEWASH/SHOWER STATION	GUARDIAN		RECESSED IN WALL	FED FROM TEMPERED WATER SYSTEM IN SCIENCE ROOMS	
P-9	EMERGENCY EYEWASH	GUARDIAN		RECESSED IN WALL	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER	
PK-1	CASEWORK SINK WITH EYEWASH	FURNISHED BY OTHERS	FURNISHED BY OTHERS			
PK-2	CASEWORK SINK WITH EYEWASH	FURNISHED BY OTHERS	FURNISHED BY OTHERS			
PK-3	COSMETOLOGY SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE HAIR TRAP	
PK-4	SCIENCE ROOM SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE LAB WASTE & VENT PIPING, NON POTABLE WATER	
PK-5	LAB SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS			
PK-6	DENTAL STATION	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE COMPRESSED AIR, VACUUM, WATER, WASTE, AND VENT	

PLUMBING FIXTURE CONNECTION SCHEDULE						
FIXT. DESIG.	FIXTURE	SW	V	CW	HW	REMARKS
P-1	WATER CLOSET	4"	3"	1"	-	
P-1A	WATER CLOSET	4"	3"	1"	-	ACCESSIBLE
P-2	URINAL	3"	2"	3/4"	-	
P-2A	URINAL	3"	2"	3/4"	-	ACCESSIBLE
P-3	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
P-3B	LAVATORY	2	1 1/2"	1"	1	
P-3C	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2	
P-4	MOP RECEPTOR	3"	2"	1 1/2"	1 1/2"	
P-4A	MOP RECEPTOR	3"	2"	1 1/2"	1 1/2"	
P-5	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
P-6	SHOWER	3"	2"	1 1/2"	1 1/2"	
P-6A	SHOWER (ACCESSIBLE)	3"	2"	1 1/2"	1 1/2"	
P-7	EMERGENCY SHOWER/EYEWASH	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
P-8	EMERGENCY SHOWER/EYEWASH	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
P-8A	EMERGENCY SHOWER/EYEWASH	1 1/2"	1 1/2"	1 1/2"	-	PROVIDE TEMPERED WATER CONNECTION
P-9	EMERGENCY EYEWASH	-	-	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
PK-1	CASEWORK SINK	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
PK-2	CASEWORK SINK W/ EYEWASH	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
PK-3	COSMETOLOGY SINK	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE HAIR TRAP
PK-4	SCIENCE ROOM SINKS	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE ACID WASTE AND VENT, AND NON POTABLE CW & HW
PK-5	LAB SINKS	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
PK-6	DENTAL STATION	1 1/2"	1 1/2"	1 1/2"	-	PROVIDE COMPRESSED AIR AND VACUUM

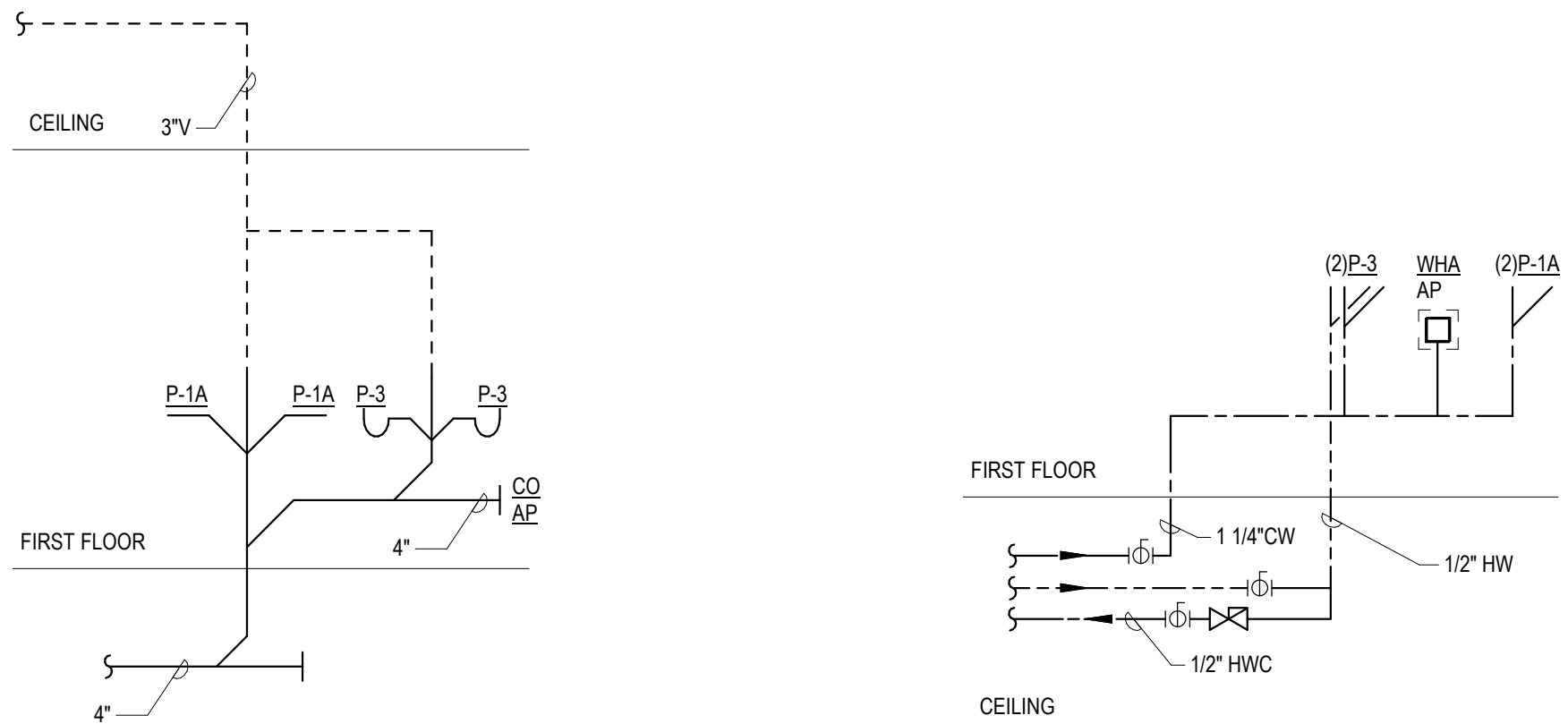
KITCHEN EQUIPMENT PLUMBING FIXTURE SCHEDULE									
ITEM	QTY	DESCRIPTION	CW	HW	G	W	W	W	COMMENTS
A069	1	COOLER EVAPORATOR COIL						1"	
A084	1	FREEZER EVAPORATOR COIL						1"	
A088	1	FREEZER EVAPORATOR COIL						1"	
A12	1	THREE-COMPARTMENT SINK	(2) 3/4"	2 (3/4")		(3) 2"			120" F.W. WASTE MANIFOLD THRU GI BY PC, PROVIDE RPZ'S FOR WATER LINES TO FIXTURE
A15	1	DISPOSER	(2) 1/2"			2"			
A16	1	HOSE REEL ASSEMBLY	1/2"	1/2"					
A17	1	WAREWASHER, DOOR TYPE, VENTLESS	3/4" (55 F MIN) 1/2" (DRAIN TEMPERING)				5/8" (TO FS)		
A19	3	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
A26	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"			2" (TO FS)		
A30	1	COMBINATION OVEN/STEAMER, ROLL-IN	3/4"			3/4"	2" (TO FS)		G @ 160 MBTU
A31	1	DOUBLE CONVECTION OVEN				3/4"			G @ 100 MBTU
A32	1	CONVEYER OVER ON STAND				3/4"			G @ 40 MBTU
A33	1	TEN-PAN STEAMER	1/2"			3/4"	1-1/2" (TO FS)		G @ 84 MBTU
A34	1	FORTY-GALLON TILTING BRAISING PAN	1/2"	1/2"		1/2"			G & 144 MBTU
A35	1	SIX-BURNER RANGE WITH OVEN	1/2"	1/2"		3/4"			G & 215 MBTU
A36	1	FORTY-GALLON TILTING KETTLE	1/2"	1/2"		1/2"			G & 100 MBTU
A39	1	UTILITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"				G & 845 MBTU (1,750 MBTU SYSTEM CAPACITY)
A40	2	FLOOR PAN & GRATE				3"			WY CONNECTION 7" BFF
A47	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"			2" (TO FS)		
A49	1	WATER FILTER ASSEMBLY	3/4"						
A53	1	PREP TABLE WITH SINKS	1/2"	1/2"		(2) 2" (TO FS)			
A55	1	WATER FILTER ASSEMBLY	1/2"						
A56	1	EXISTING COFFEE BREWIER	1/2" (FILTERED)	1/2"		1-1/2"			
B11	1	HAND SINK	1/2"	1/2"					PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
B14	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (MANFOLD TO FS)		
B17	3	FILL FAUCET		1/2"					
B18	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (MANFOLD TO FS)		
B21	1	COLD PAN, DROP IN					1" (TO FS)		
B28	1	COLD PAN, DROP IN					1" (TO FS)		
B29	1	HOT FOOD WELL ASSEMBLY, DROP IN					1/2" (TO FS)		
B36	1	COLD PAN, DROP IN					1" (TO FS)		
B44	1	MOP SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"					DRAIN IN FLOOR, PROVIDE RPZ'S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE
B49	1	EXISTING WAREWASHER, CONVEYER TYPE	1/2" (DRAIN TEMPERING)	3/4"			1-1/4" (TO FS)		180 HW
B49b	1	WATER FILTER ASSEMBLY				3/4"			
B49b	1	BOOSTER HEATER, LARGE COMPACT				3/4"			
B51	1	HOSE REEL ASSEMBLY	1/2"	1/2"					
B52	1	SOLID TRAY TABLE WITH SCRAP SINK & INTEGRAL PASS THRU WINDOW FRAME				2"			
B55	1	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
C02	1	WATER FILTER ASSEMBLY	1/2"						
C03	(1)	ICE MAKER WITH BIN	1/2" (FILTERED)				(1) 1/2", (1) 3/4" (TO FS)		
C04	1	FLOOR PAN & GRATE				3"			WY CONNECTION 7" BFF
C05	1	COOLER EVAPORATOR COIL					1"		W/ TO DO BY NEC
C07d	1	FREEZER EVAPORATOR COIL				1/2"	1"		W/ TO DO BY NEC
C15	1	MOP SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"					DRAIN IN FLOOR, PROVIDE RPZ'S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE
C18	1	FRONT LOAD CLOTHES DRYER	1/2"	1/2"		(3) 2"			STANDPIPE W
C21	1	THREE-COMPARTMENT SINK	(2) 3/4"	2 (3/4")		(3) 2"			120" F.W. WASTE MANIFOLD THRU GI BY PC, PROVIDE RPZ'S ON WATER LINES TO FIXTURE
C23	1	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
C25	1	EYEFACE WASH	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F
C26	1	WATER FILTER ASSEMBLY	3/4"						
C29	1	WAREWASHER, RACK CONVEYER	1/2" (DRAIN TEMPERING)	1/2"			2" (TO FS)		
C29b	1	WATER FILTER ASSEMBLY				3/4"			
C31	1	SOLID WARE TABLE WITH SCRAP SINK				2"			
C32	1	HOSE REEL ASSEMBLY	1/2"	1/2"					
C32	1	HOSE REEL ASSEMBLY	1/2"	1/2"					
D04	1	WORK COUNTER WITH SINK	1/2"	1/2"					
D07	1	HAND SINK	1/2"	1/2"		1-1/2"	2" (TO FS)		PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
D11	1	TWO-BURNER/GRIDDLE RANGE WITH OVEN				3/4"			G & 135 MBTU, OD
E06	1	DONUT FRYER WITH FILTER DRAINER				1/2"			G @ 72 MBTU, OD
E07	1	DOUBLE CONVECTION OVEN				3/4"			G & 100 MBTU, OD
E08	1	SIX-BURNER RANGE WITH OVEN				3/4"			G & 215 MBTU, OD
E12	1	WATER FILTER ASSEMBLY							
E13	1	ROTATING DOUBLE RACK OVEN	1/2" (FILTERED)				1/2" (TO FS)		
E14	1	ROLL-IN PROOFER CABINET	1/2" (FILTERED)				1/2" (TO FS)		
E23	1	EYEFACE WASH	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F
E26	1	FILL FAUCET	1/2"	1/2"			1/2"		
E36	1	PREP TABLE WITH SINKS	1/2"	1/2"			(2) 2" (TO FS)		
E38	1	ADA COMPLIANT HAND SINK	1/2"	1/2"		1-1/2"			
F04	1	ADA COMPLIANT PREP STATION TABLE WITH SINK	1/2"	1/2"			1-1/2" (TO FS)		
F05	1	WATER FILTER ASSEMBLY	3/4"						
F06	1	HAND SINK	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
F09	1	COOKS WORK TABLE WITH SINK & OVERSHELF	1/2"				2" (TO FS)		
F15	1	UTILITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"				G @ 1,499 MBTU (LOOPE SERVICE) (2,350 MBTU SYSTEM CAPACITY)
F22	1	DOUBLE TWENTY-QUART TILTING KETTLE	1/2" (FILTERED)	1/2"	1/2"		1-1/4" (TO FS)		G & 200 MBTU
F23	1	FORTY-QUART KETTLE WITH DRAIN CART STAND	1/2"	1/2"	1/2"		1-1/2" (TO FS)		G & 52 MBTU
F24	1	FORTY-GALLON TILTING BRAISING PAN	1/2"	1/2"	1/2"				G & 144 MBTU
F25	1	SIX-BURNER RANGE WITH OVEN				3/4"			G & 215 MBTU
F27	1	COMBINATION OVEN ON MOBILE STAND	3/4" (FILTERED)			3/4"	2" (TO FS)		G @ 115 MBTU
F28	1	TEN-PAN STEAMER	1/2" (FILTERED)			3/4"	1-1/2" (TO FS)		G & 84 MBTU
F29	1	CONVECTION OVEN				3/4"			G & 50 MBTU
F30	1	FILL FAUCET		1/2"	1/2"				
F31	1	SIX-BURNER RANGE WITH OVEN & BACKSHELF BROILER	1/2"	1/2"		1"			G @ 252 MBTU
F32	1	HEAVY DUTY UNDERPIRED BROILER				3/4"			G & 56 MBTU
F33	1	GRIDDLE RANGE WITH OVEN & BACKSHELF BROILER				1"			G & 122 MBTU
F34	1	FRYER ASSEMBLY WITH FILTER DRAINER				3/4"			G & 160 MBTU
F35	1	FLOOR PAN & GRATE					3"		WY CONNECTION 7" BFF
F39	1	WORK SINK (PART OF ASSEMBLY)	1/2"	1/2"			2" (TO FS)		
F41	1	STEAM TABLE, THREE-WELL (PART OF ASSEMBLY)				1/2"			1" (TO FS)
F44	1	HAND SINK (PART OF ASSEMBLY)	1/2"	1/2"		1-1/2"			PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
F47	1	DIPPERWELL & FAUCET	1/2"	1/2"			1-1/4" (TO FS)		
F51	2	SOUP WELL, DROP-IN					1/2" (MANFOLD TO FS)		
F52	1	HOT FOOD WELL, DROP-IN					1/2" (TO FS)		
F56	1	ADA COMPLIANT HAND SINK	1/2"	1/2"		1-1/2"			
F59	1	PREP TABLE WITH SINKS	1/2"	1/2"					
G04	1	UNDERMOUNT HAND SINK WITH FAUCET & SOAP DISPENSER	1/2"	1/2"		1-1/2"	(2) 2" (TO FS)		
G05	1	COFFE BREWIER (BY OWNER'S VENDOR)	1/2" (FILTERED)						
G06	1	PRE-RINSE UNIT WITH ADD-ON FAUCET	1/2"	1/2"					
G07	1	UNDERMOUNT WORK SINK					1-1/2" (TO FS)		
G08	1	HOT WATER DISPENSER	1/2" (FILTERED)						
G09	1	ICE DISPENSER, MANUAL FILL					3/4" (TO FS)		
G11	1	ESPRESSO MACHINE (BY OWNER'S VENDOR)	1/2" (FILTERED)				3/4" (TO FS)		

PLUMBING AIR COMPRESSOR SCHEDULE				
NO.	MANUFACTURER	MODEL	LOCATION	REMARKS
AC-1	QUINCY	QSV-40	LOWER LEVEL PART C	AUTO COLLISION/METAL FABRICATION
AC-1	QUINCY	LOWER LEVEL PART C		AUTO COLLISION/METAL FABRICATION
AC-2	QUINCY	QSS20RMD	FIRST FLOOR PART A	VOTEC SHOPS
AC-3	POWEREX	SET1007	SECOND FLOOR PART A	BIOTECH LAB
AC-4	QUINCY	QGS15-T1D	SECOND FLOOR PART A	DRAFTING & DESIGN
AC-5	POWEREX	SET1001	FOURTH FLOOR PART A	DENTAL
AC-6	QUINCY	QGS15-T1D	FOURTH FLOOR PART B	ROBOTICS

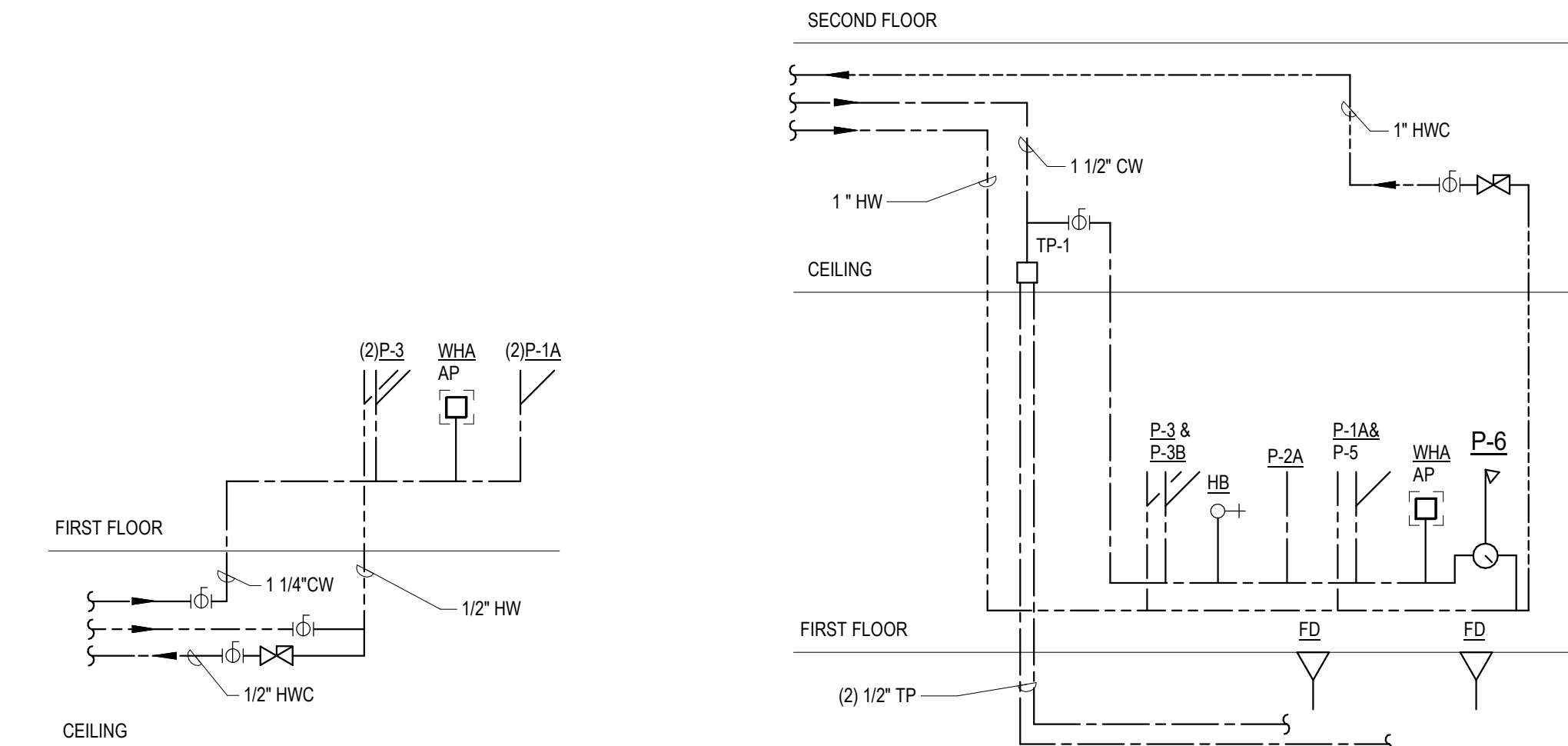
PLUMBING VACUUM PUMP SCHEDULE				
NO.	MANUFACTURER	MODEL	LOCATION	REMARKS
VAC-1	POWEREX	VDX030V	SECOND FLOOR PART A	BIOTECH LAB
VAC-2	TECH WEST INC	VP200S	FOURTH FLOOR PART A	DENTAL

PLUMBING ELECTRIC WATER HEATER SCHEDULE											
NO.	MANUFACTURER	MODEL	LOCATION	CAPACITY		ELECTRICAL					REMARKS
				STORAGE	GPH @ °F RISE	V	PH	HZ	KW	SCCR (KAIC)	
EW#-1	PVI	DURAWATT-460	LOWER LEVEL PART C	XX	XX	480	3	60	90	XX	SERVES C & D WING, PROVIDE 120V, 1/3 HP, CIRCULATOR PUMP (CP-1)
EW#-1	PVI	DURAWATT-460	LOWER LEVEL PART C	XX	XX	480	3	60	90	XX	SERVES C & D WING, PROVIDE 120V, 1/3 HP, CIRCULATOR PUMP (CP-1)
EW#-2	AD SMITH	DURAWATT-270	MEZZANINE PART B	XX	XX	480	3	60	54	XX	SERVES B WING, PROVIDE 120V, 1/2 HP, CIRCULATOR PUMP (CP-2)
EW#-2	AD SMITH	DURAWATT-270	MEZZANINE PART B	XX	XX	480	3	60	54	XX	SERVES B WING, PROVIDE 120V, 1/2 HP, CIRCULATOR PUMP (CP-2)
EW#-3	AD SMITH	DSE-120	MEZZANINE PART A	XX	XX	480	3	60	54	XX	SERVES MWH FOR SERVICE ROOMS, PROVIDE 120V, 1/2 HP, CIRCULATOR PUMP (CP-3)
EW#-4	PVI	DURAWATT-550	SECOND FLOOR PART A	XX	XX	480	3	60	108	XX	SERVES KITCHEN/CULINARY ARTS AND A WING, PROVIDE 120V, 1/3 HP, CIRCULATOR PUMP (CP-4)
EW#-4	PVI	DURAWATT-550	SECOND FLOOR PART A	XX	XX	480	3	60	108	XX	SERVES KITCHEN/CULINARY ARTS AND A WING, PROVIDE 120V, 1/3 HP, CIRCULATOR PUMP (CP-4)
EW#-5	AD SMITH	DSE-30	1ST FLOOR ADMIN WING	30	XX	208	1	60	6	XX	SERVES ADMIN WING TOILET ROOMS, PROVIDE 120V, 1/8 HP, CIRCULATOR PUMP (CP-5)
EW#-6	AD SMITH	DSE-120	ELECTRICAL SHOP	XX	XX	480	3	60	30	XX	MOCK WATER HEATER FOR STUDENT WIRING
EW#-7	AD SMITH	DSE-30	CONNECTIONS BUILDING	XX	XX	208	1	60	15	XX	SERVES CONNECTION BUILDING HW DRUM, PROVIDE 120V, 1/8 HP CIRCULATOR PUMP (CP-6)
EW#-8	AD SMITH	DSE-120	LOCKER BUILDING	XX	XX	480	3	60	60	XX	SERVES LOCKER BUILDING, PROVIDE 120V, 1/8 HP, CIRCULATOR PUMP (CP-7)

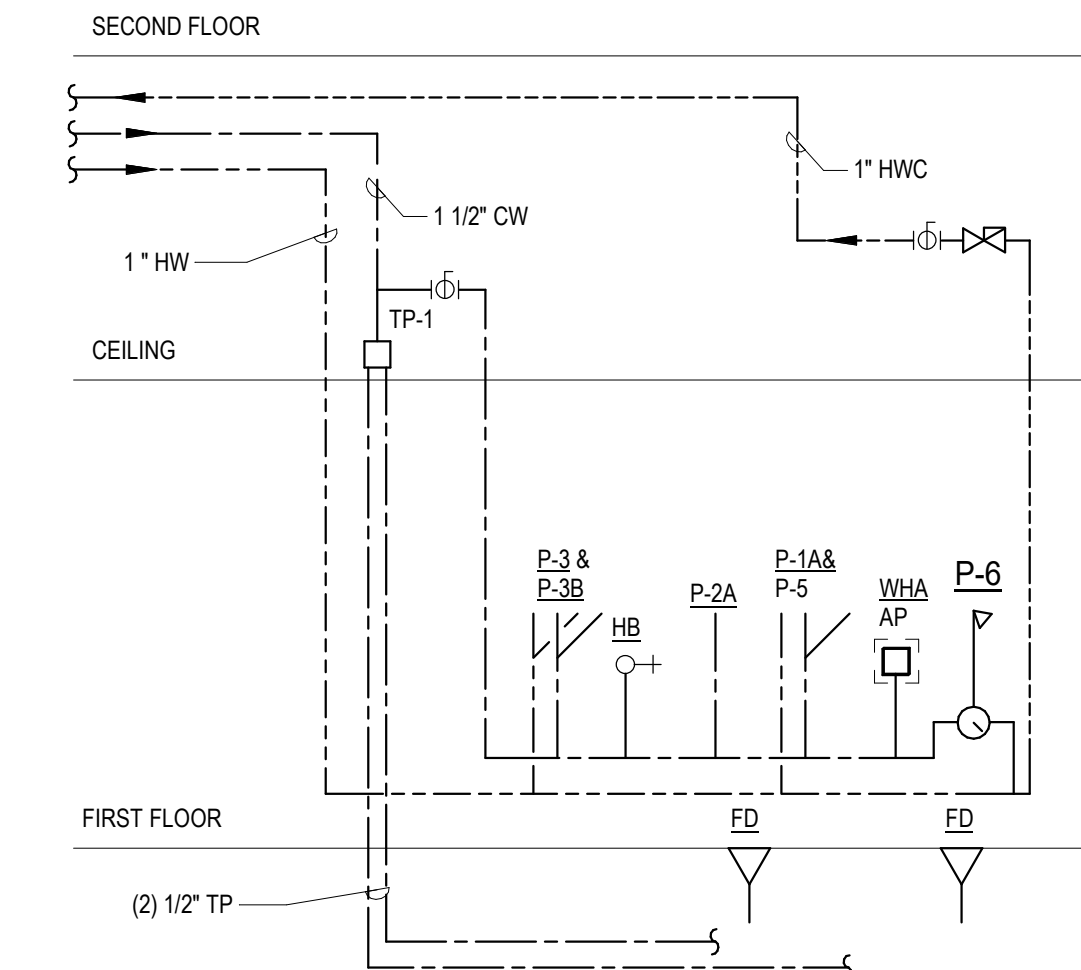
SECOND FLOOR



① NURSE TOILETS D107-D108 SANITARY RISER  
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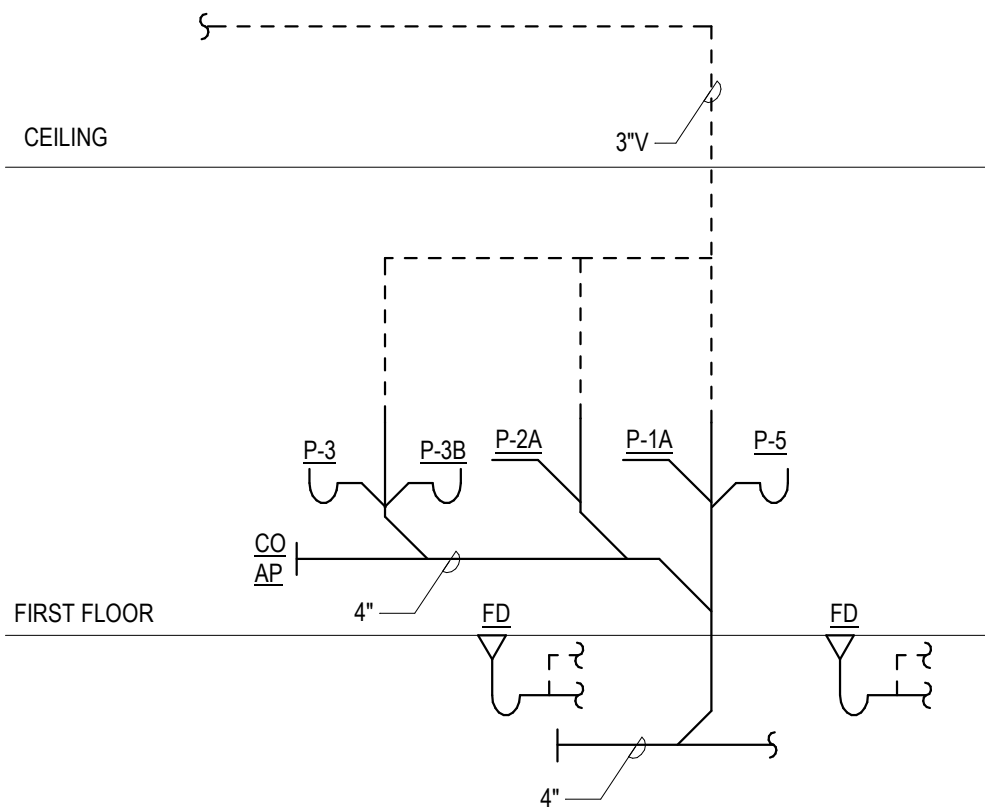


② NURSE TOILETS D107-D108 WATER RISER  
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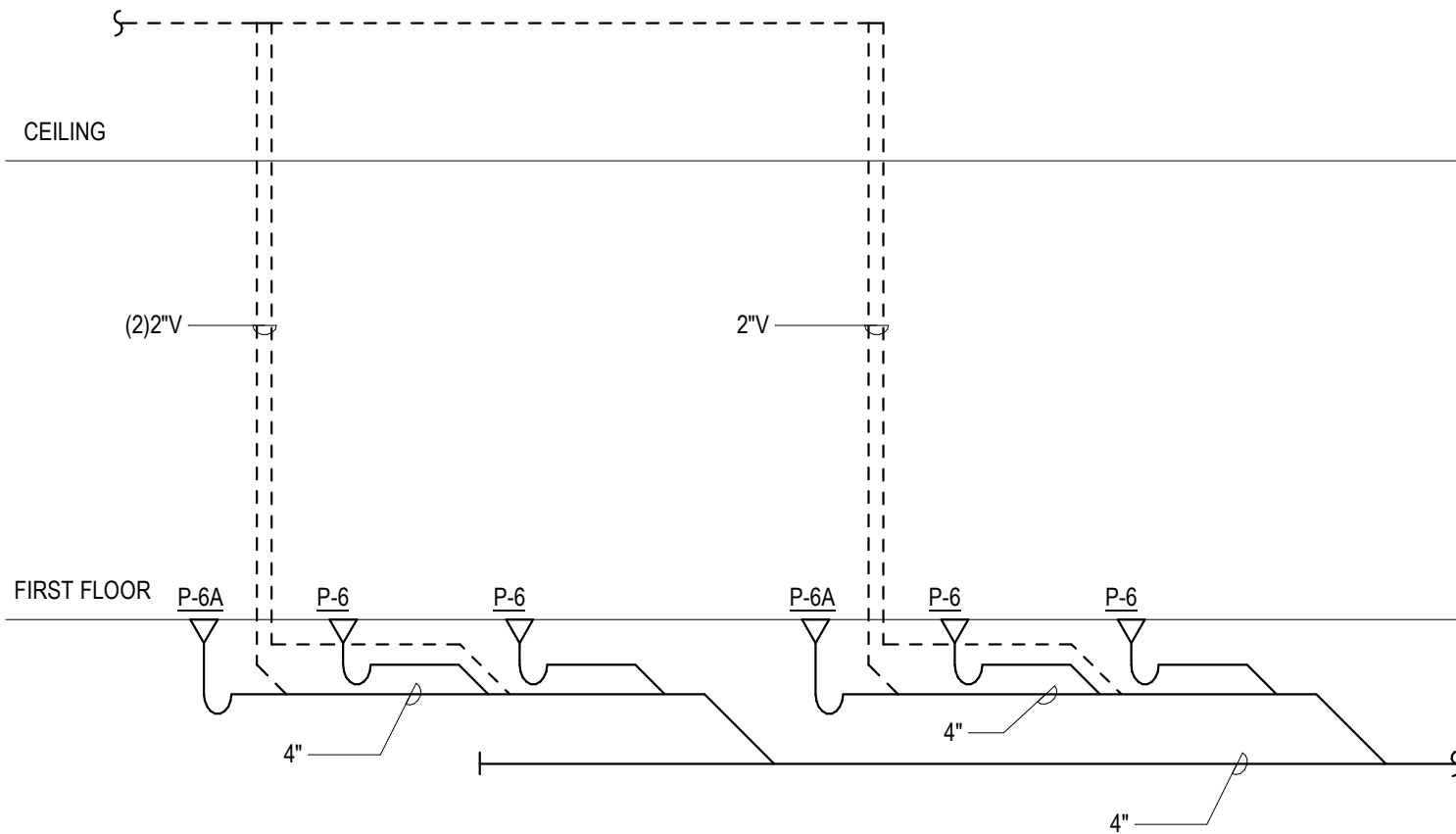
③ ROOMS D003C & D003 WATER RISER  
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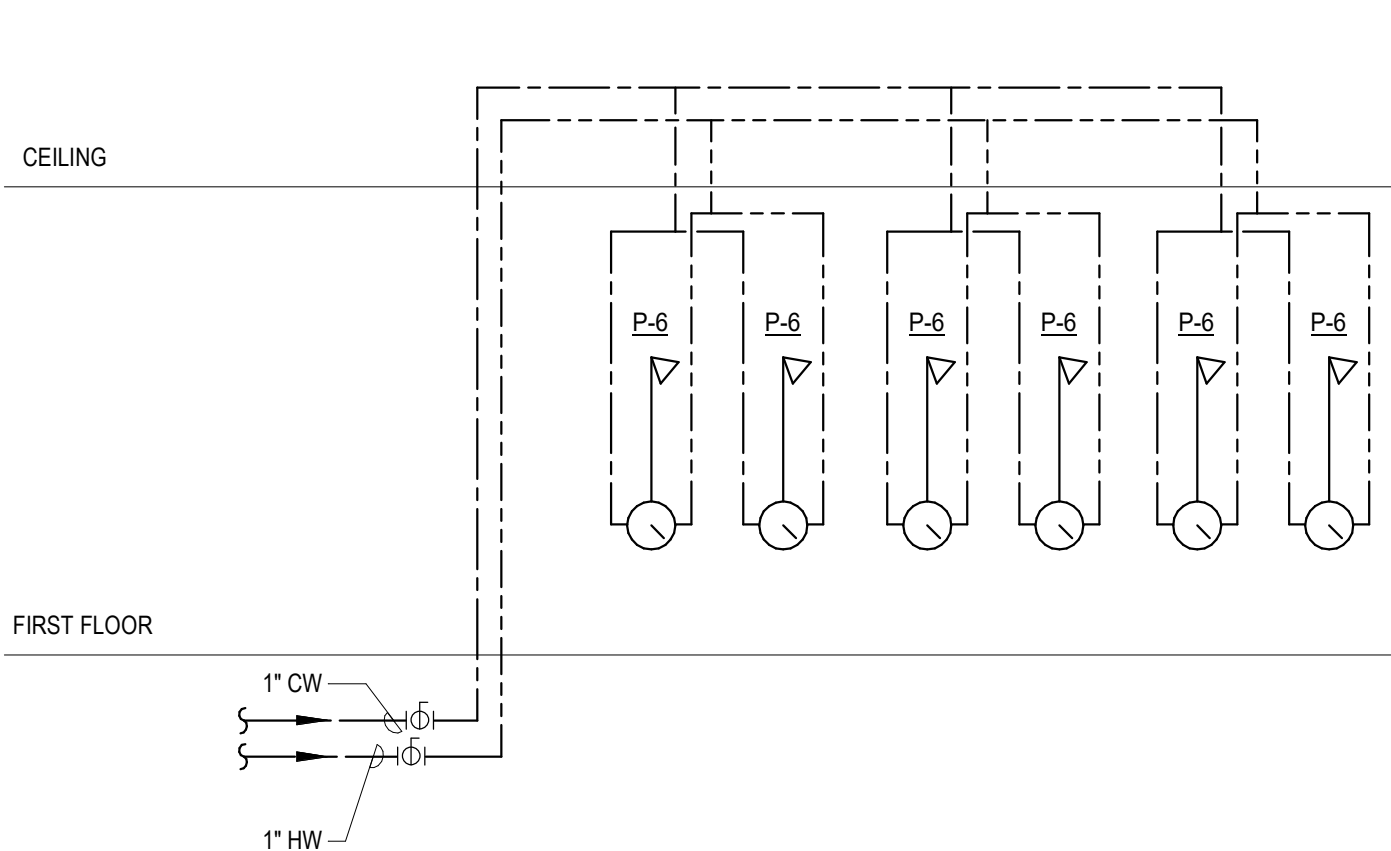
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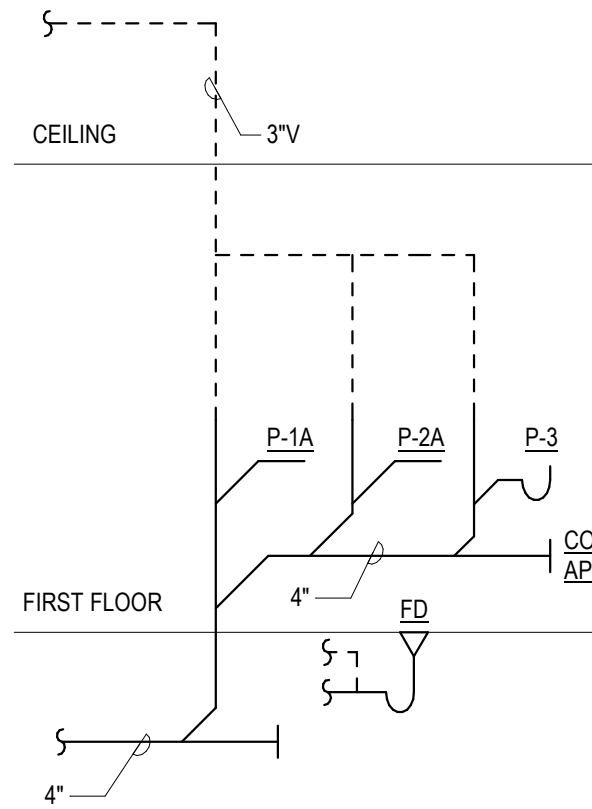
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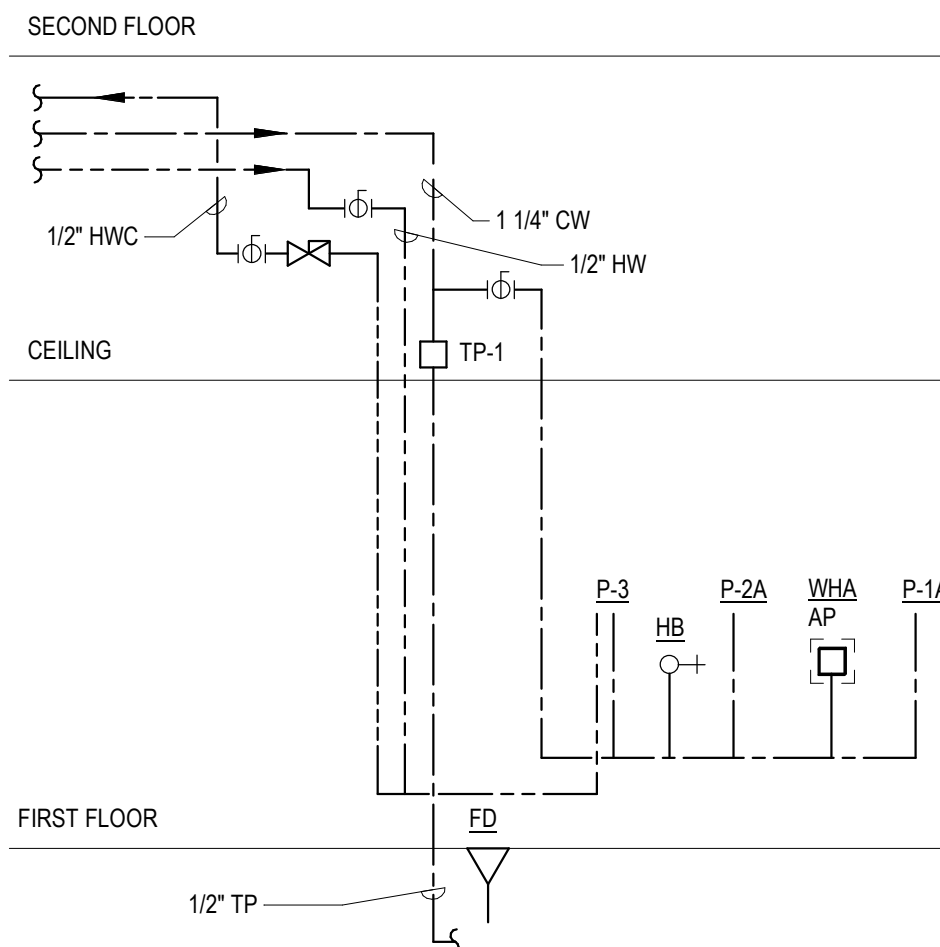


⑥ SHOWER ROOMS D122A/D117A WATER RISER  
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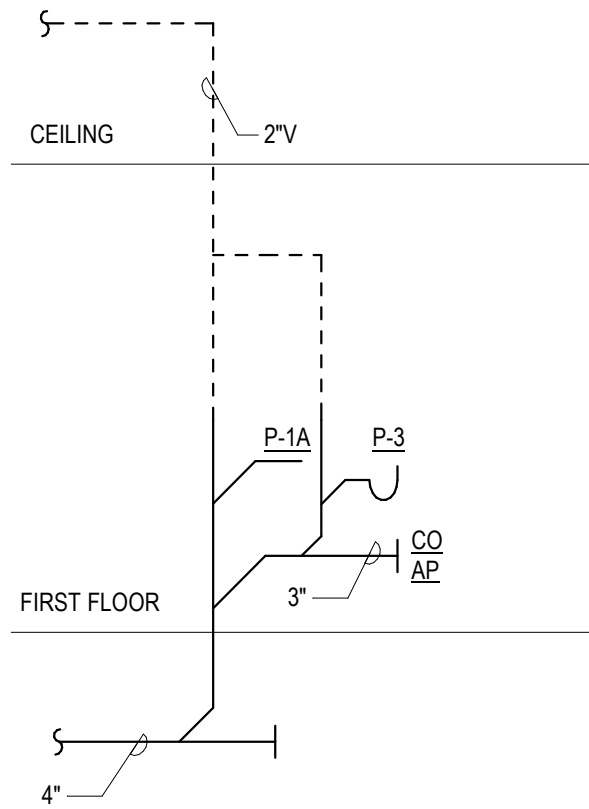


⑦ TOILET ROOM A148B SANITARY RISER  
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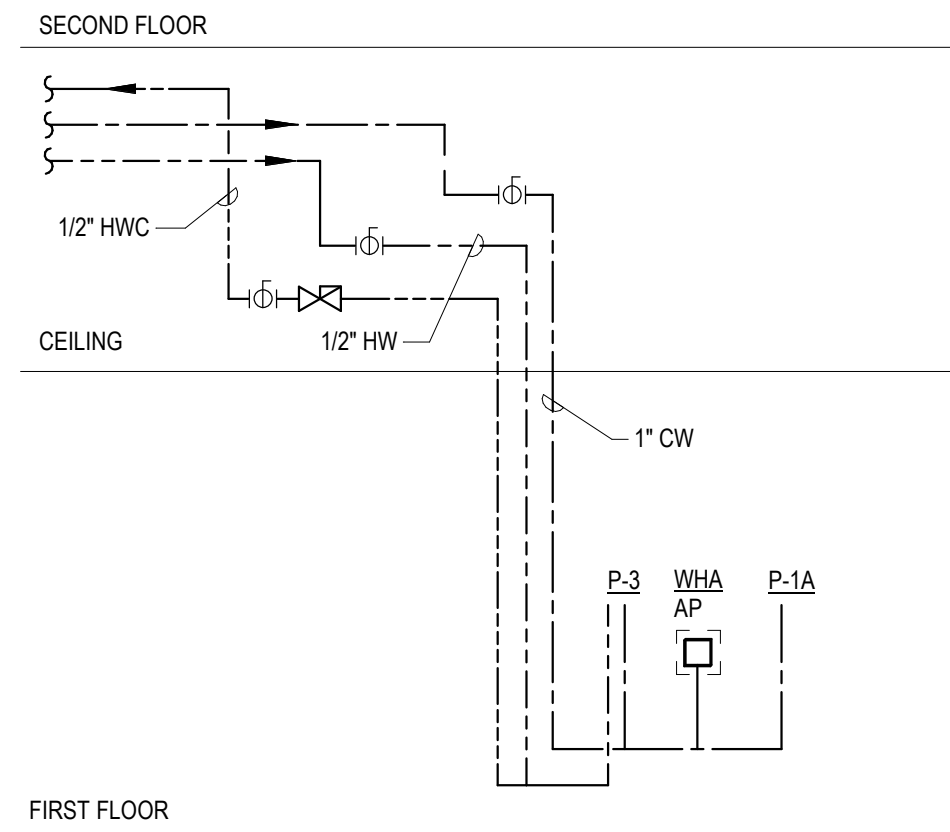


⑧ TOILET ROOM A148B WATER RISER  
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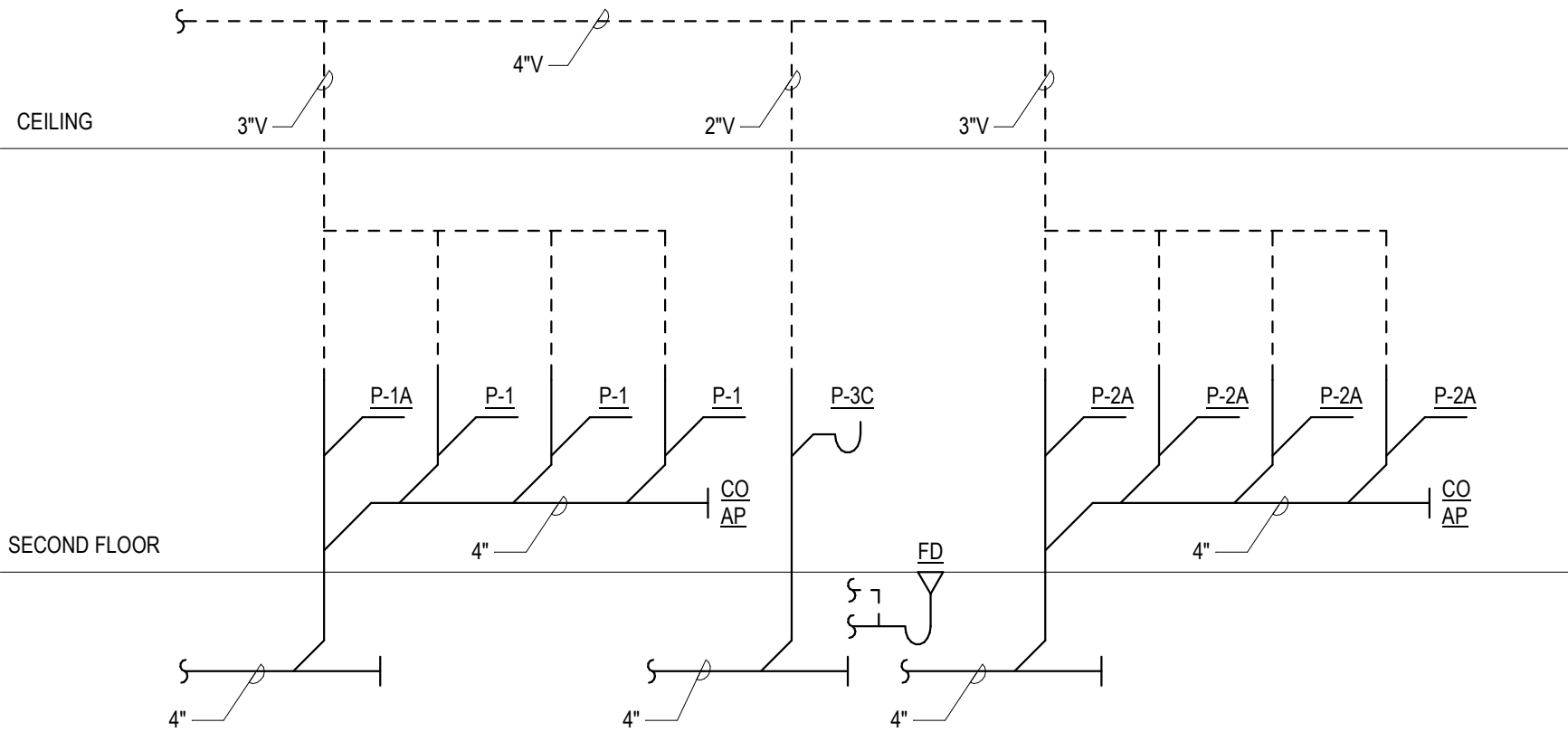


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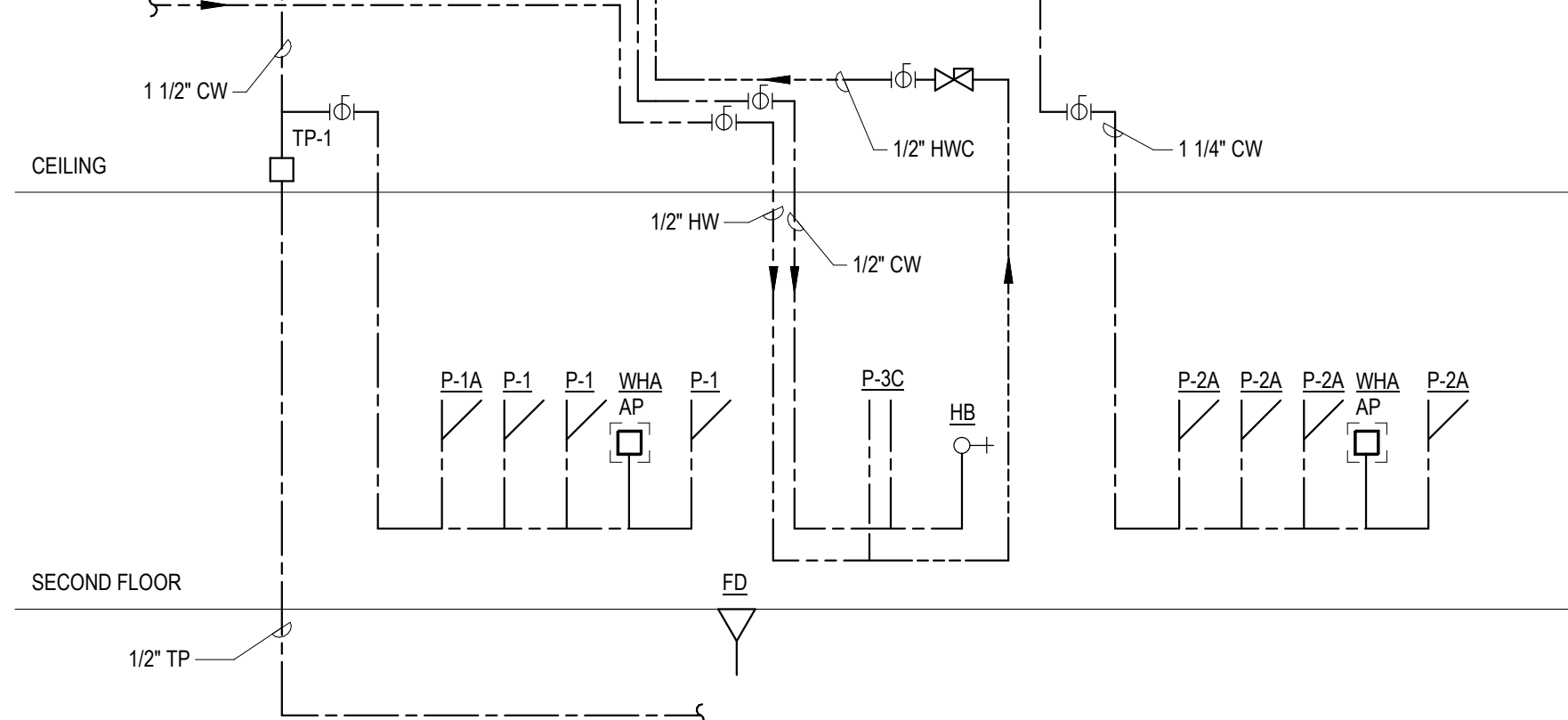
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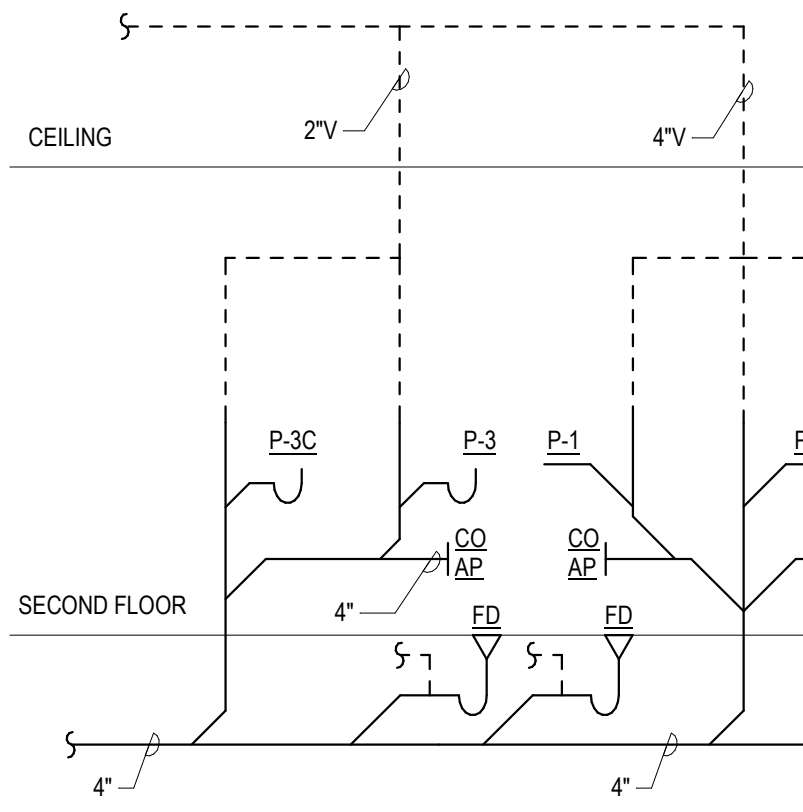
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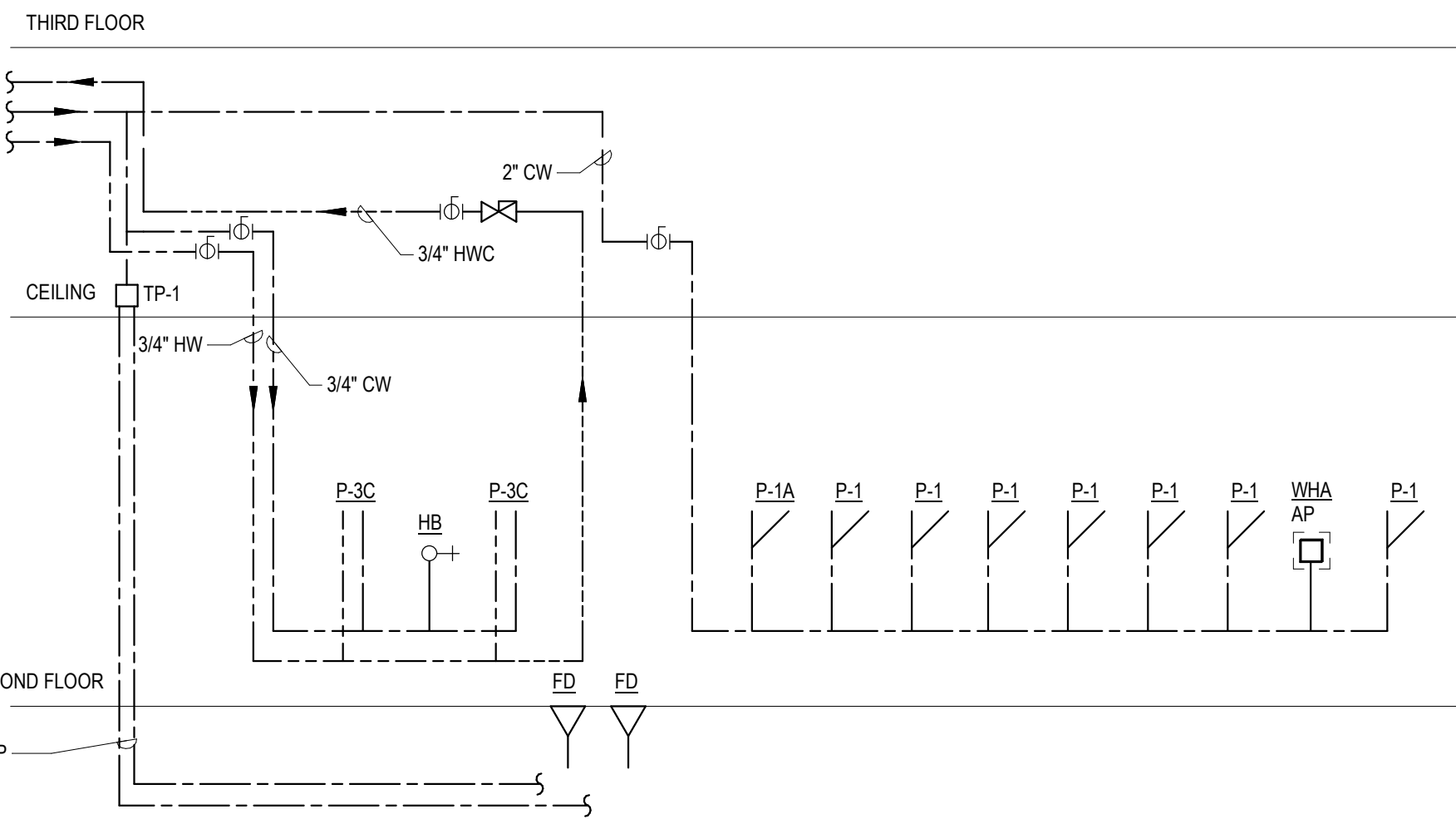


⑫ TOILET ROOM B217 WATER RISER  
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THIRD FLOOR

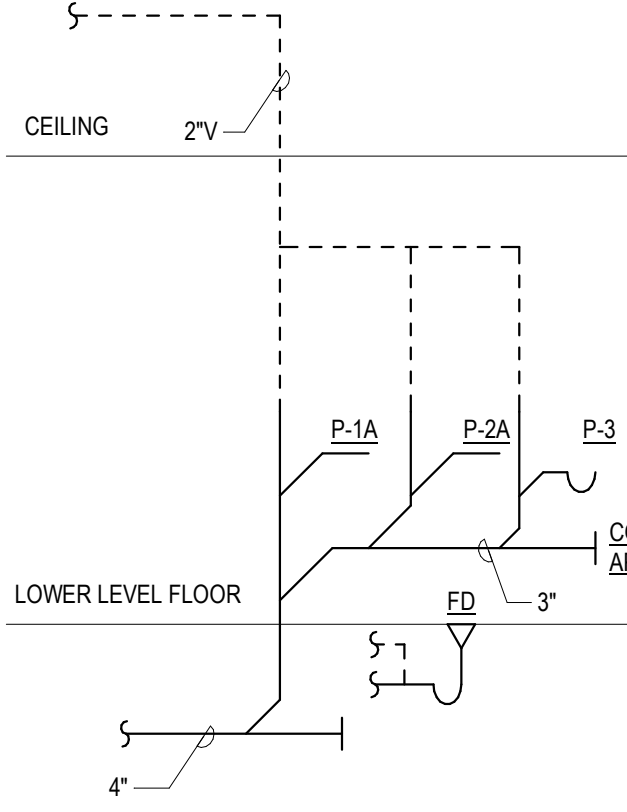


⑬ TOILET ROOM B228 SANITARY RISER  
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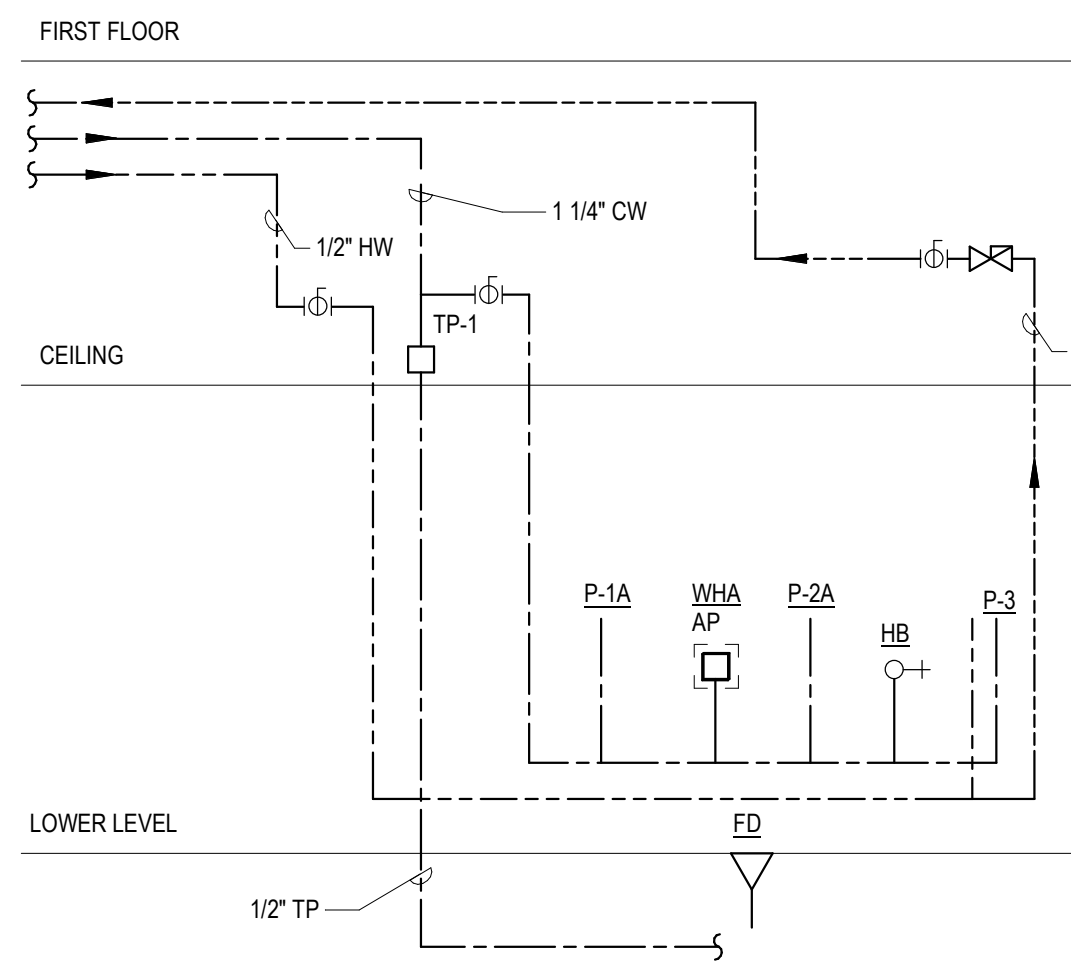


⑭ TOILET ROOM B228 WATER RISER  
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FIRST FLOOR

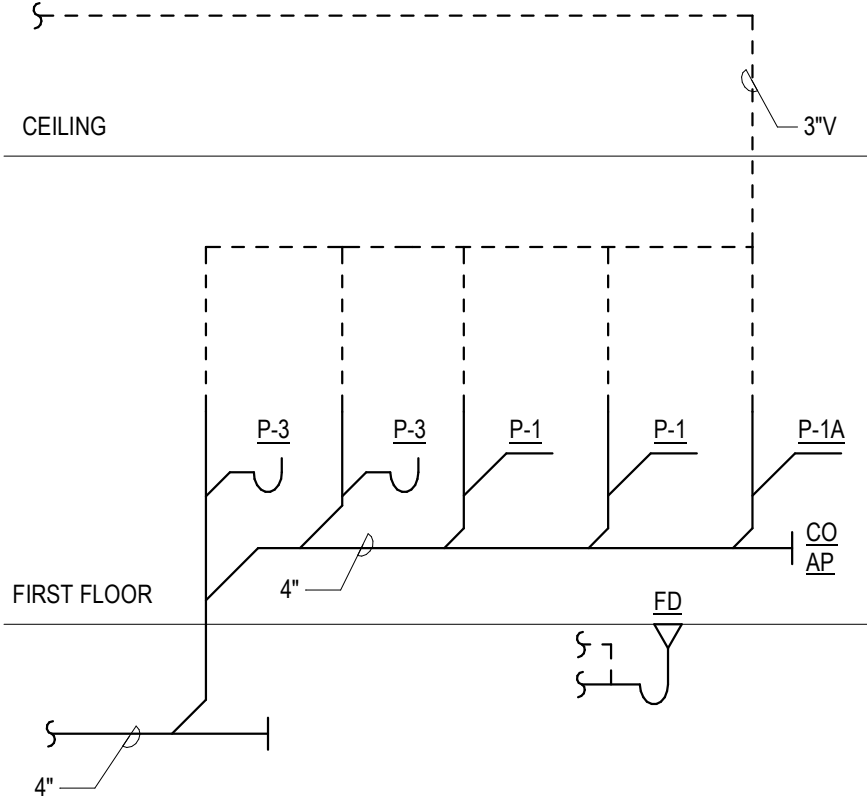


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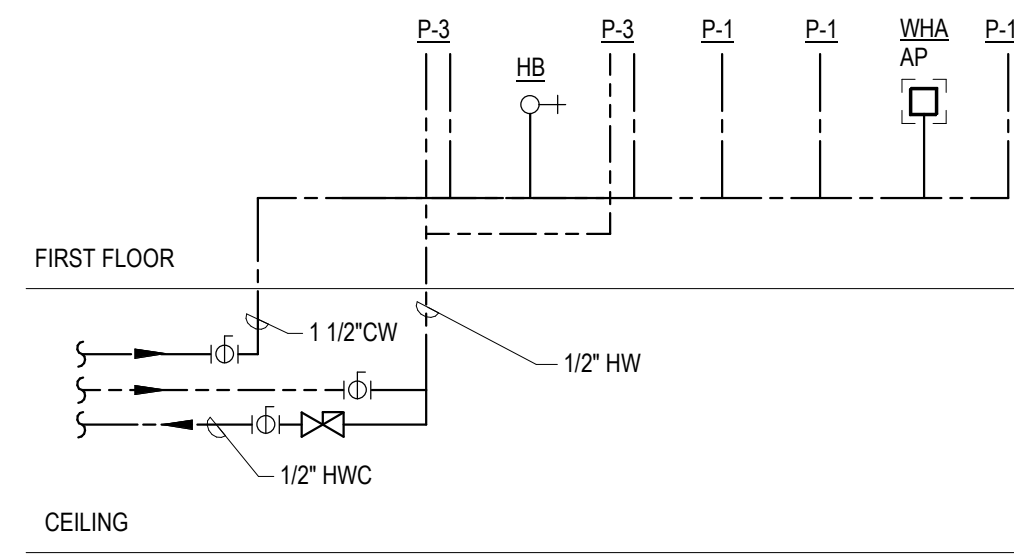


⑯ TOILET ROOM C022C WATER RISER  
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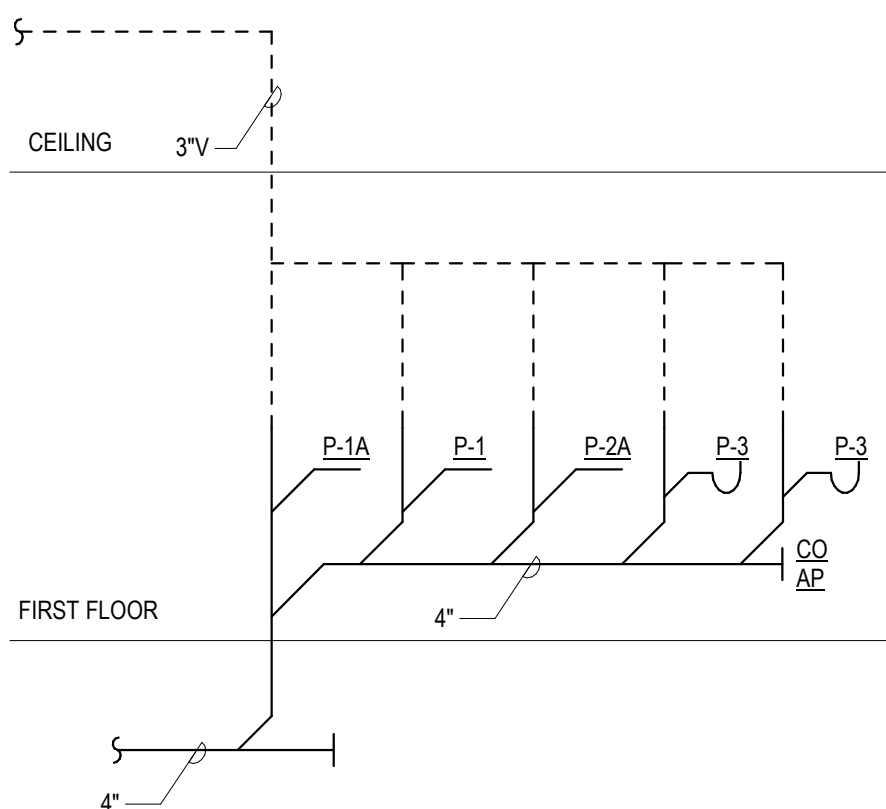


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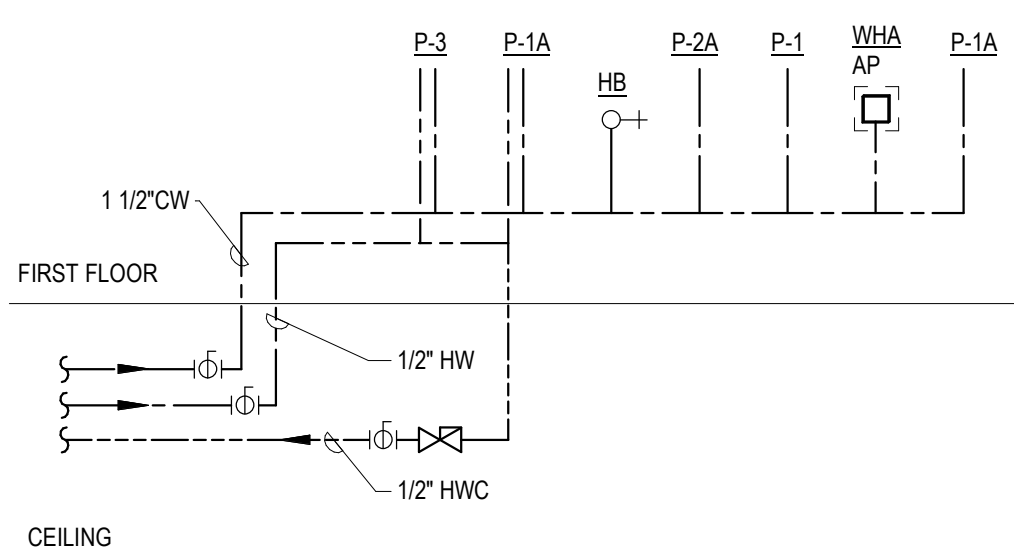


⑱ TOILET ROOM C106G WATER RISER  
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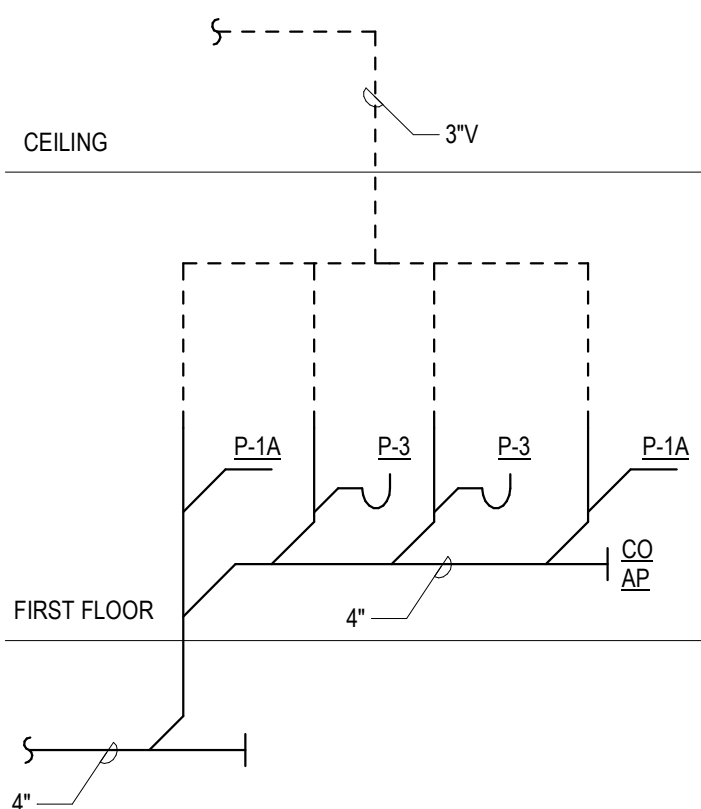


⑲ TOILET ROOM C112 SANITARY RISER  
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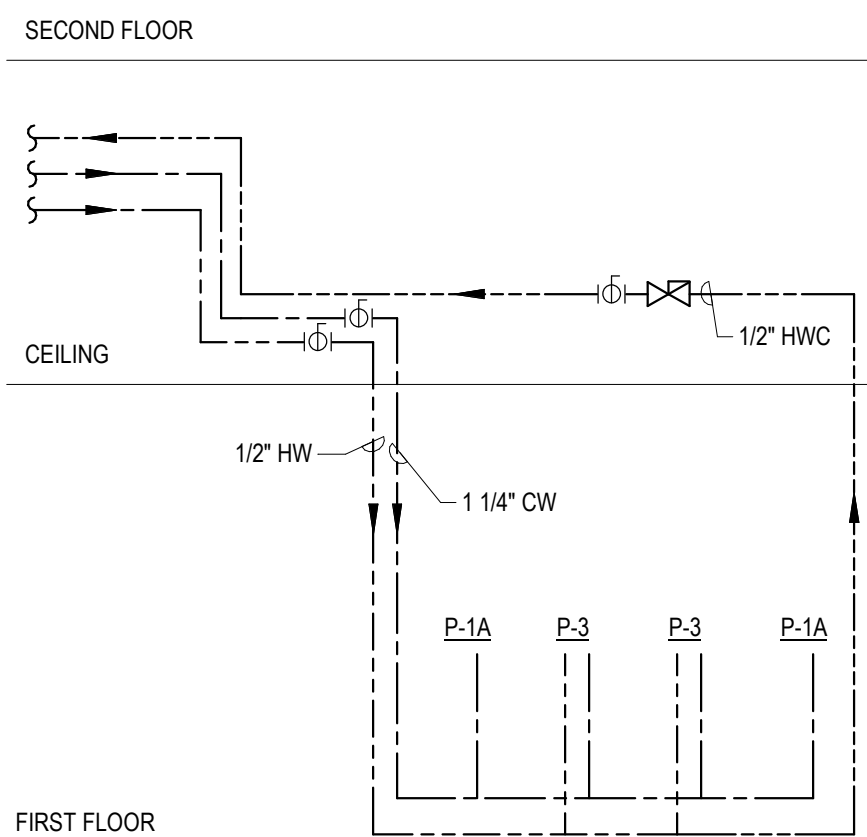


⑳ TOILET ROOM C112 WATER RISER  
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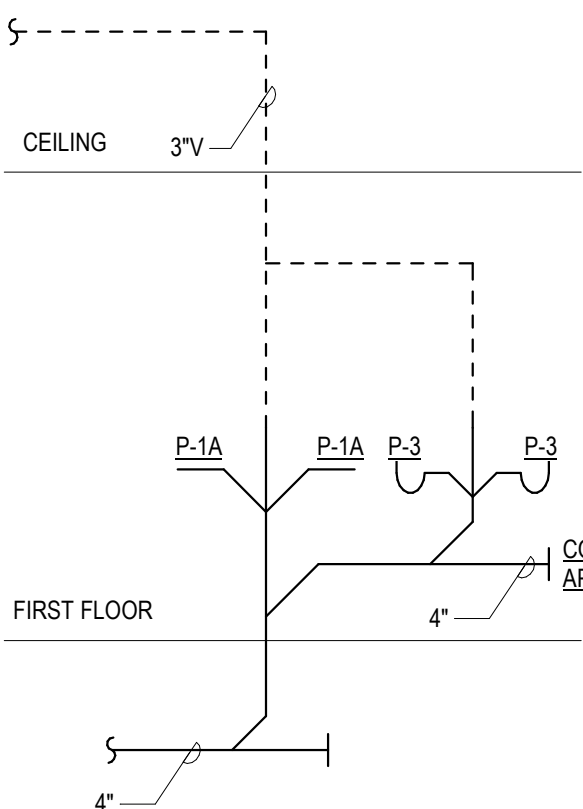


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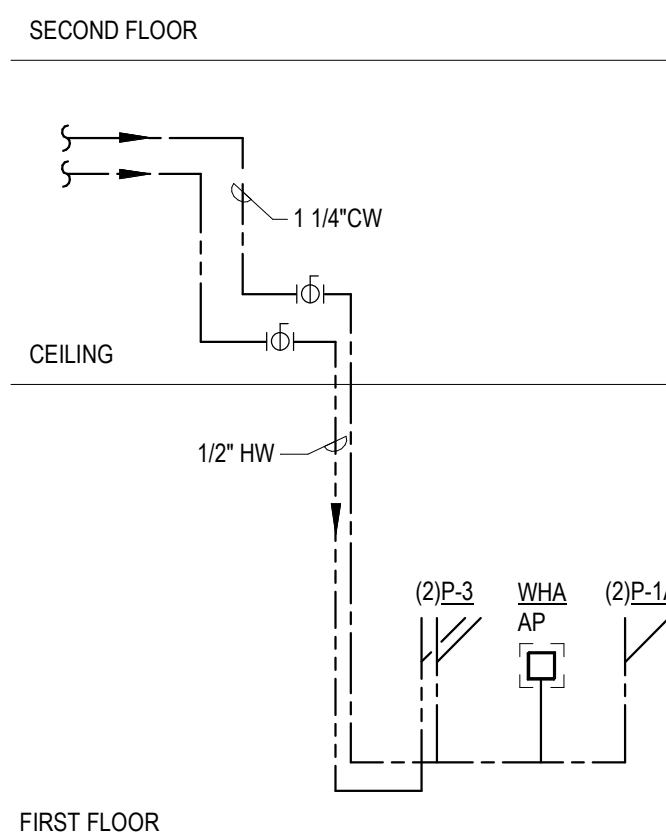


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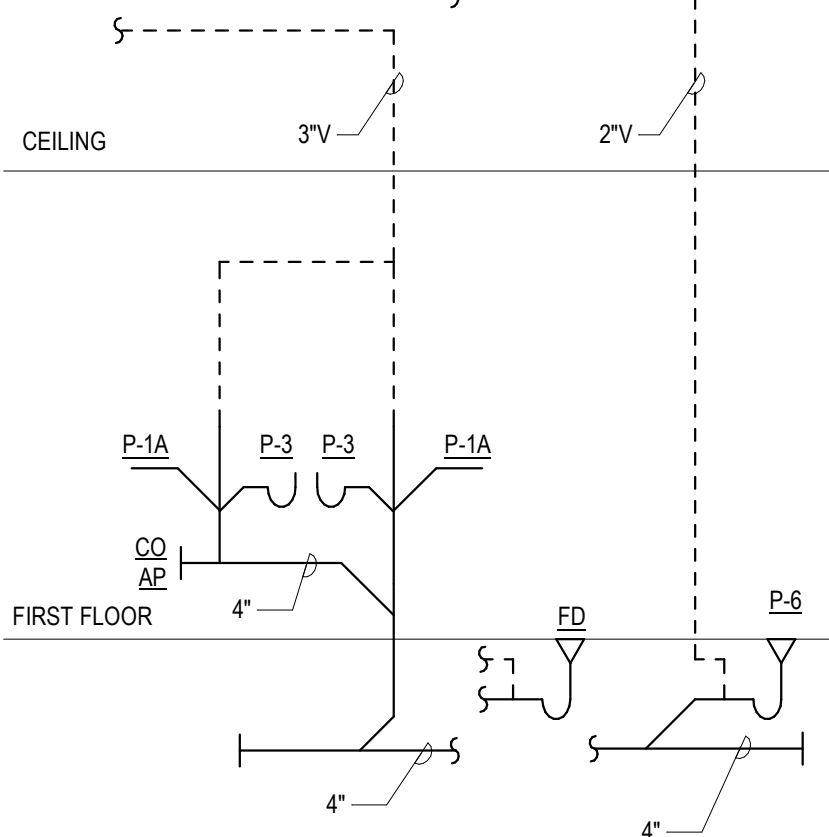


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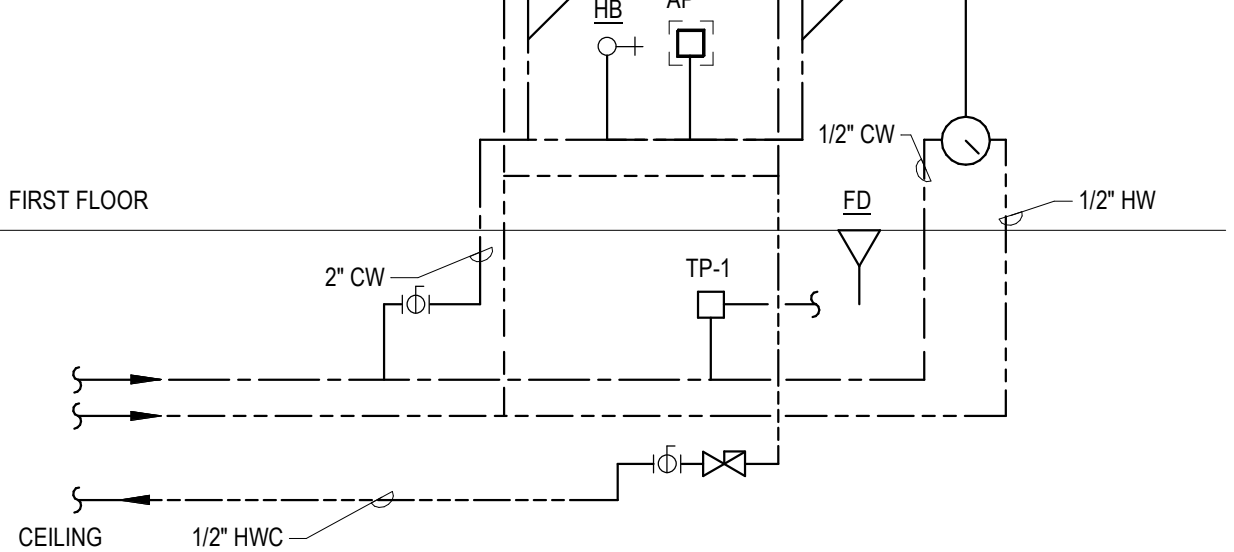


㉔ TOILET ROOMS A133-A134 WATER RISER  
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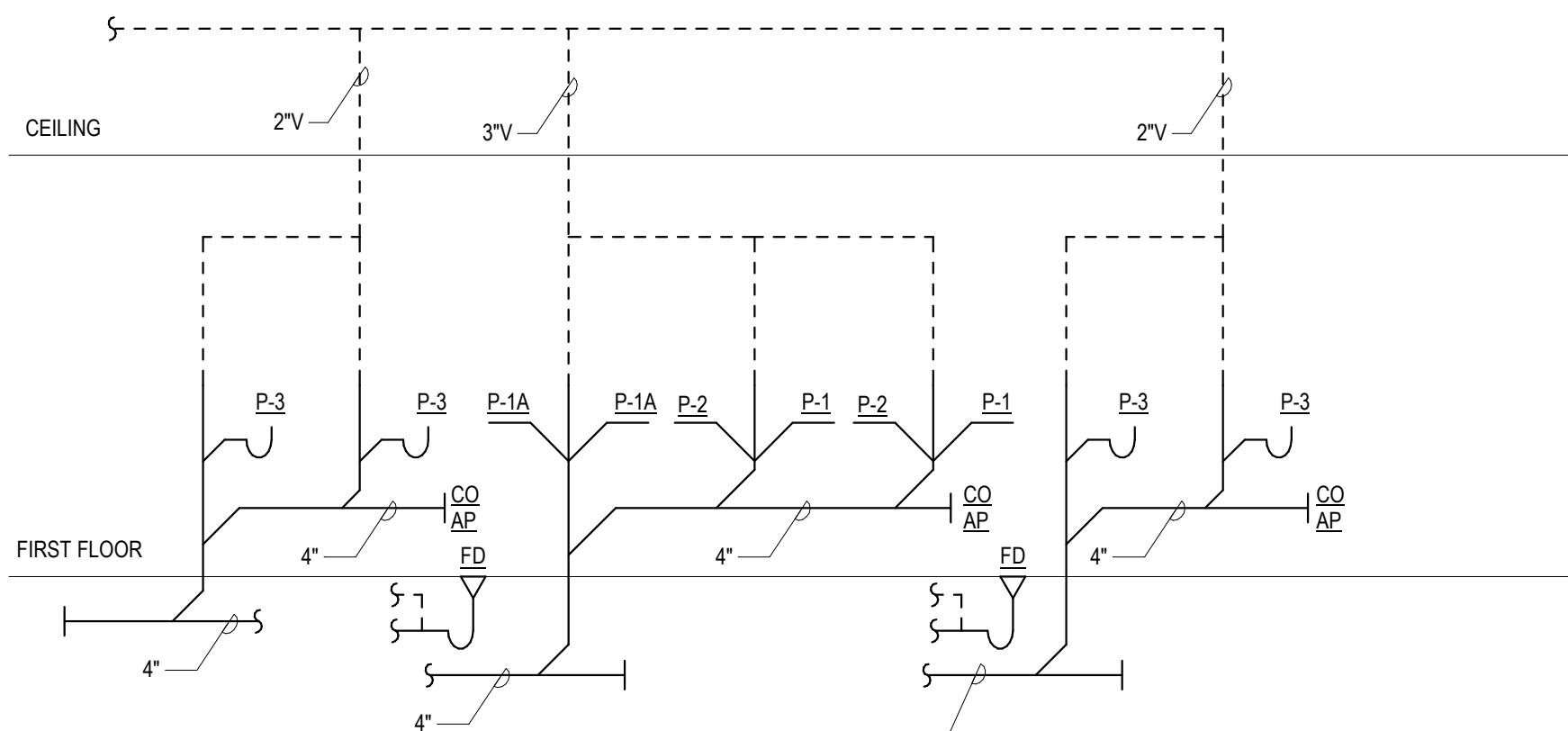


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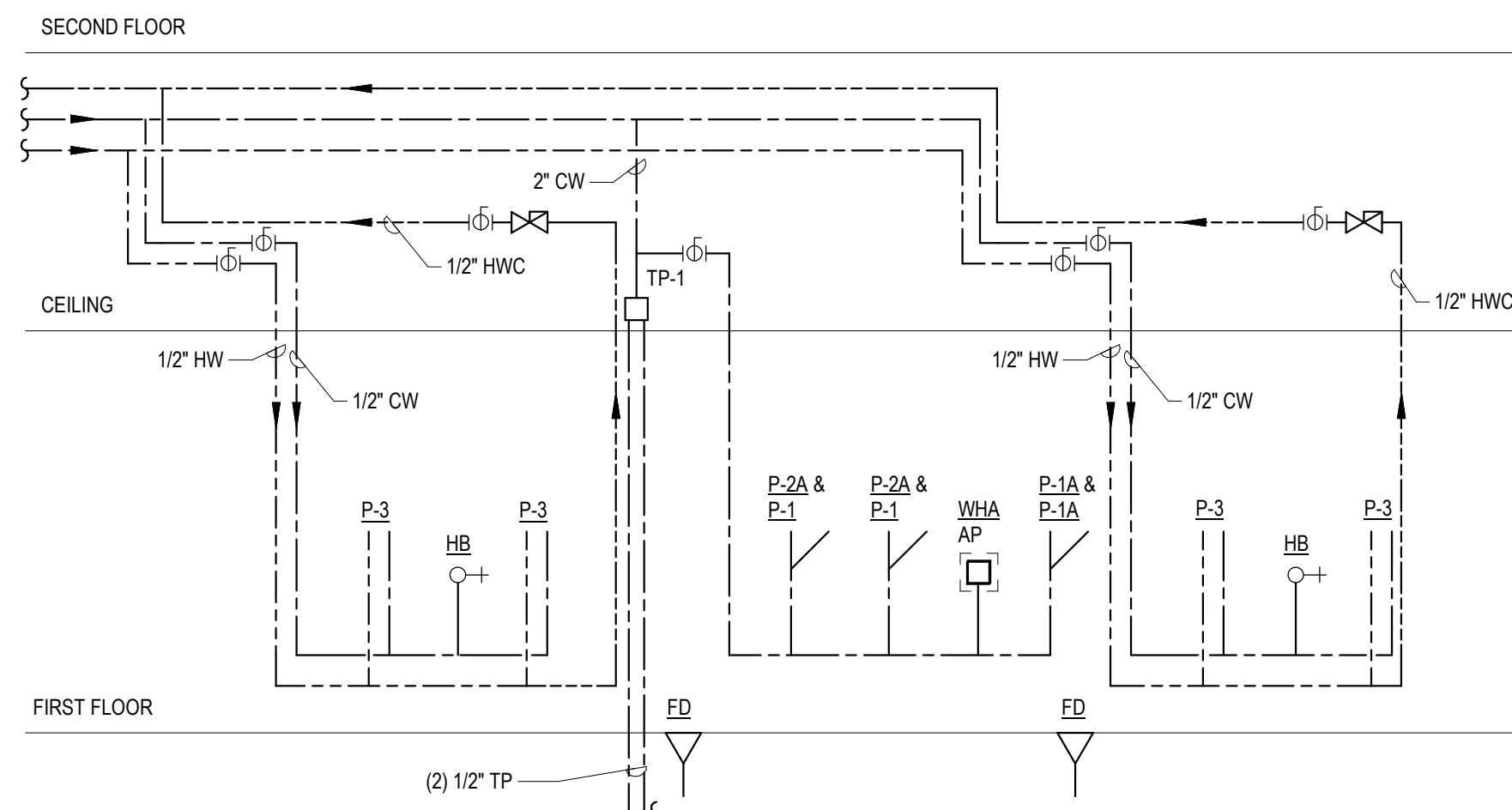


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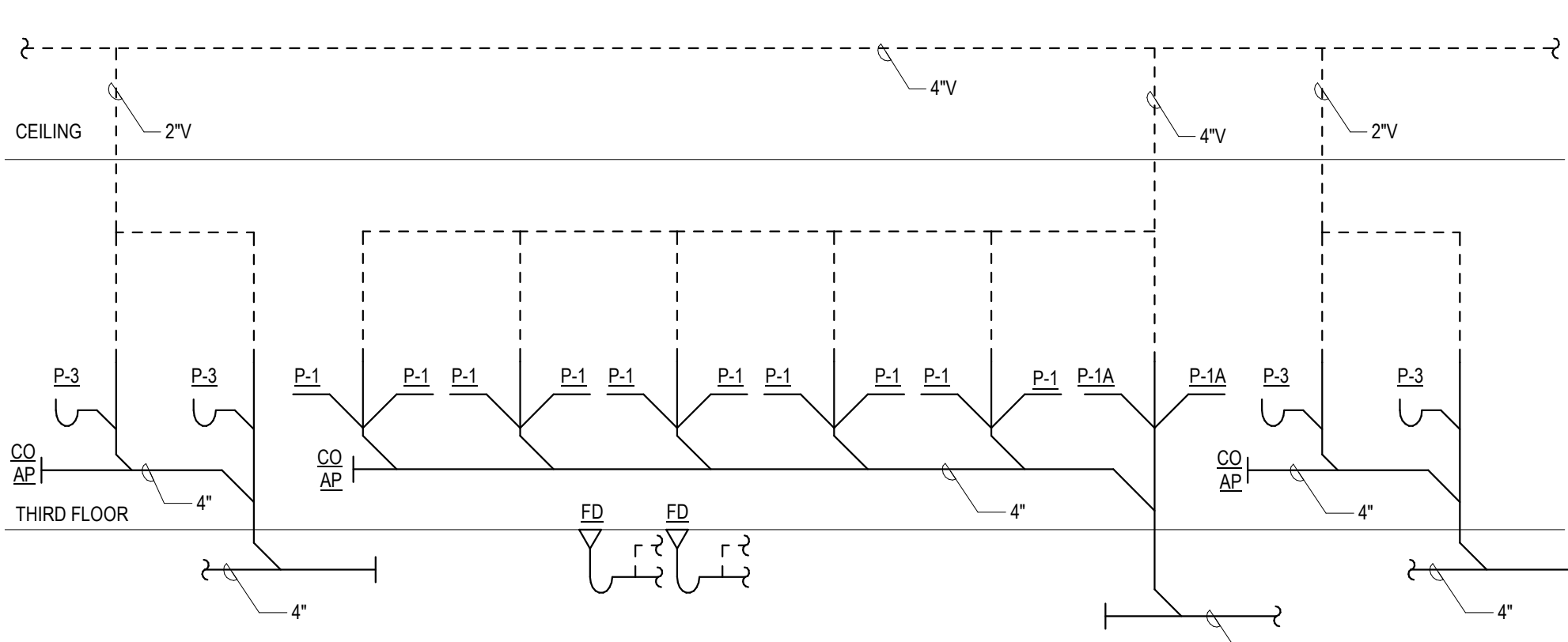


㉗ TOILET ROOMS A142-A143 SANITARY RISER  
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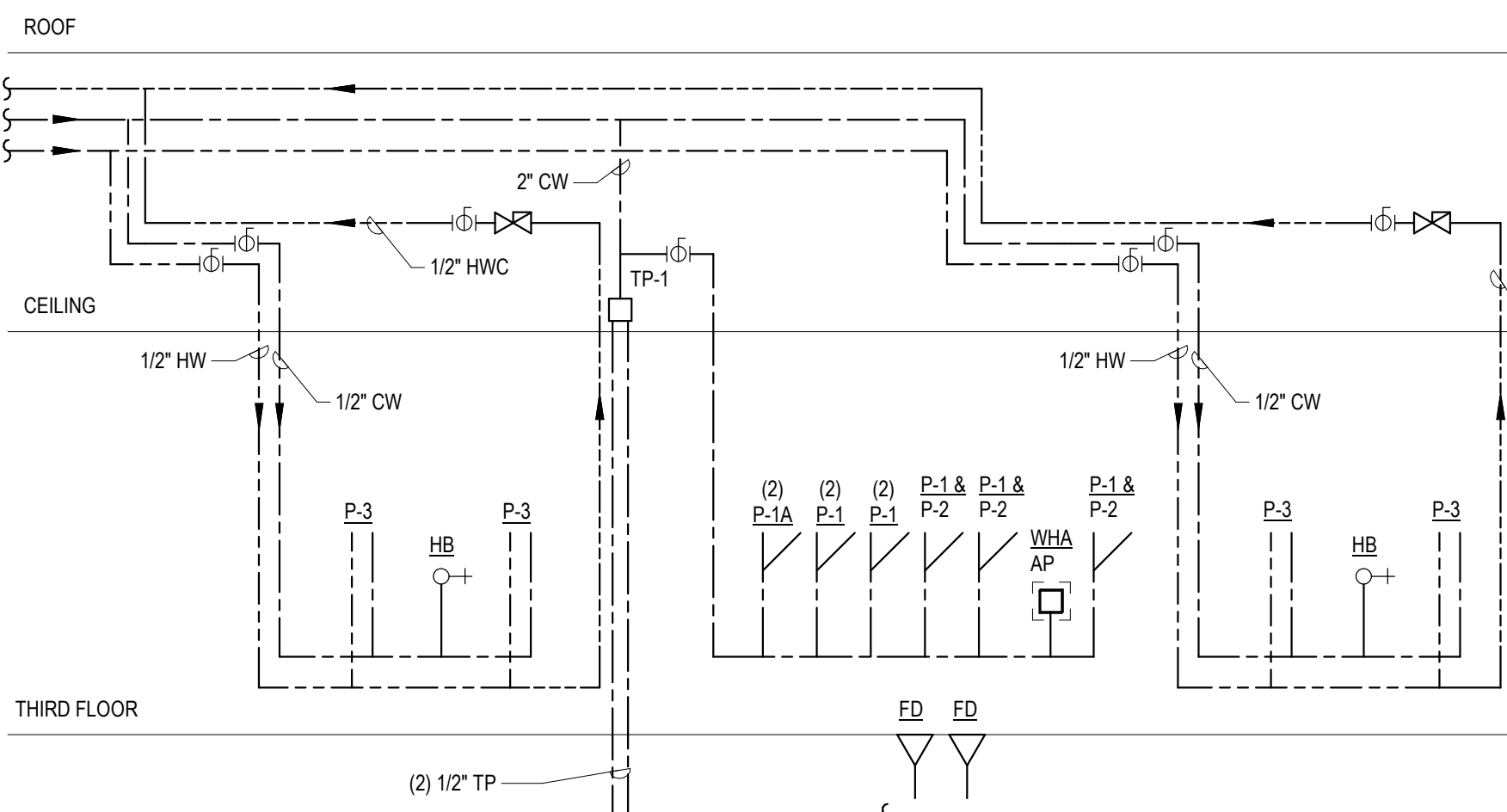


㉘ TOILET ROOMS A142-A143 WATER RISER  
N.T.S.

ROOF



㉙ TOILET ROOMS A315-A316 SANITARY RISER  
N.T.S.



㉚ TOILET ROOMS A315-A316 WATER RISER  
N.T.S.

DRA

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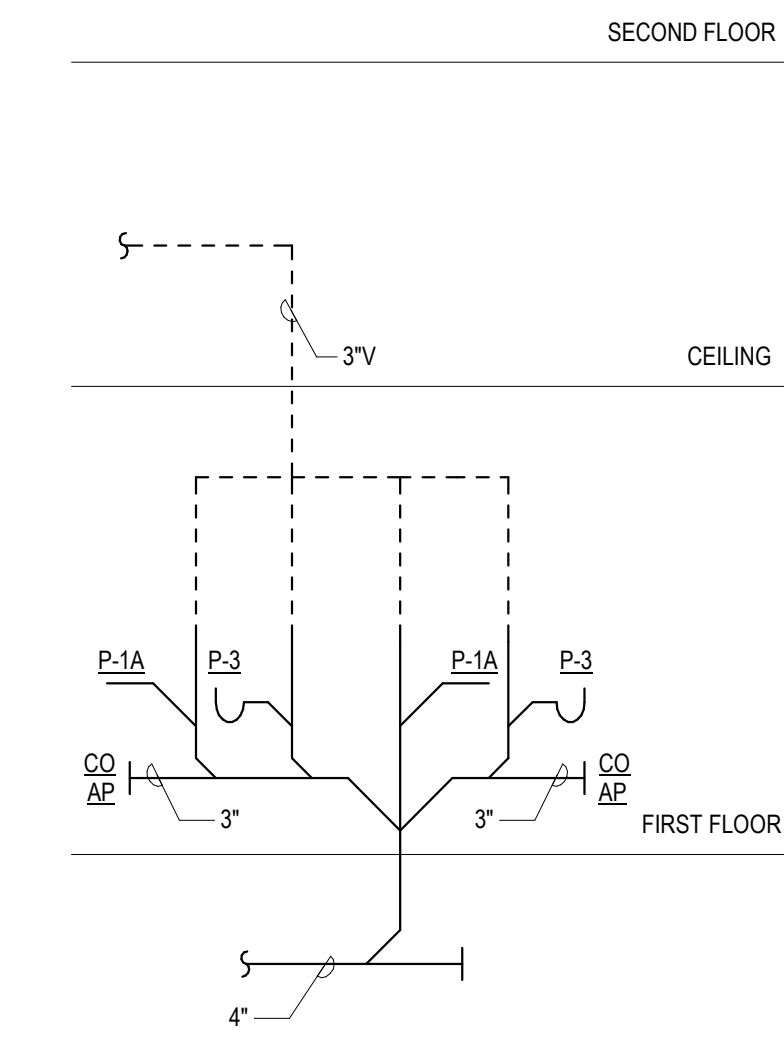
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January 13, 2023

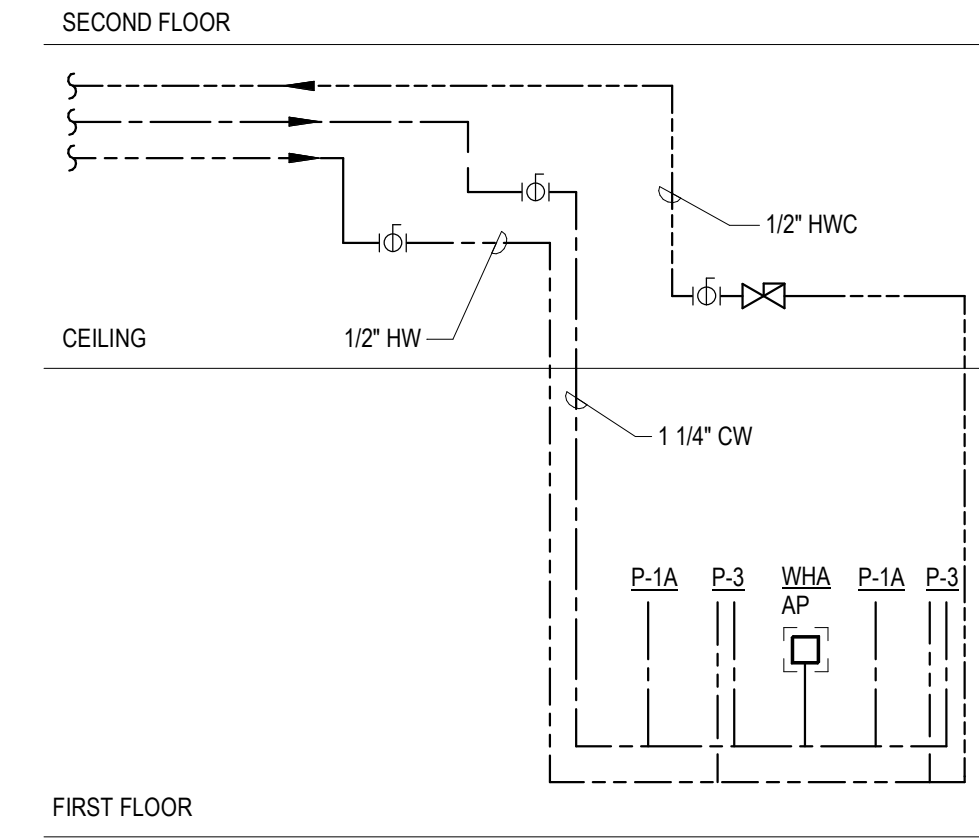
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MAGNETIC NORTH

PLUMBING  
RISER

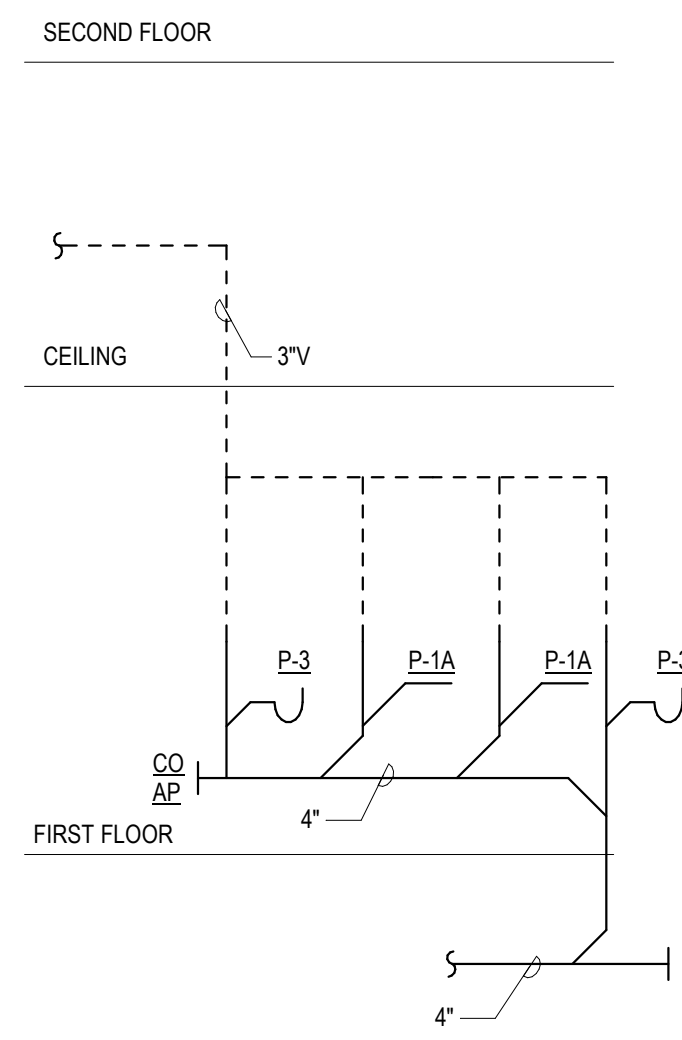
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Job No.: 20022  
Drawn By: DRA  
Date: January 13, 2023  
P5-0-1



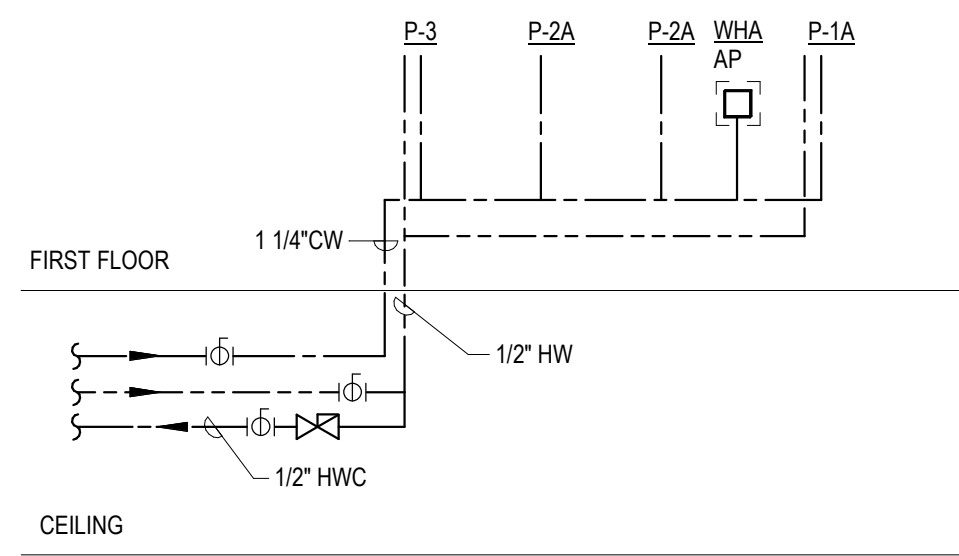
① TOILET ROOMS B116 & B117 SANITARY RISER  
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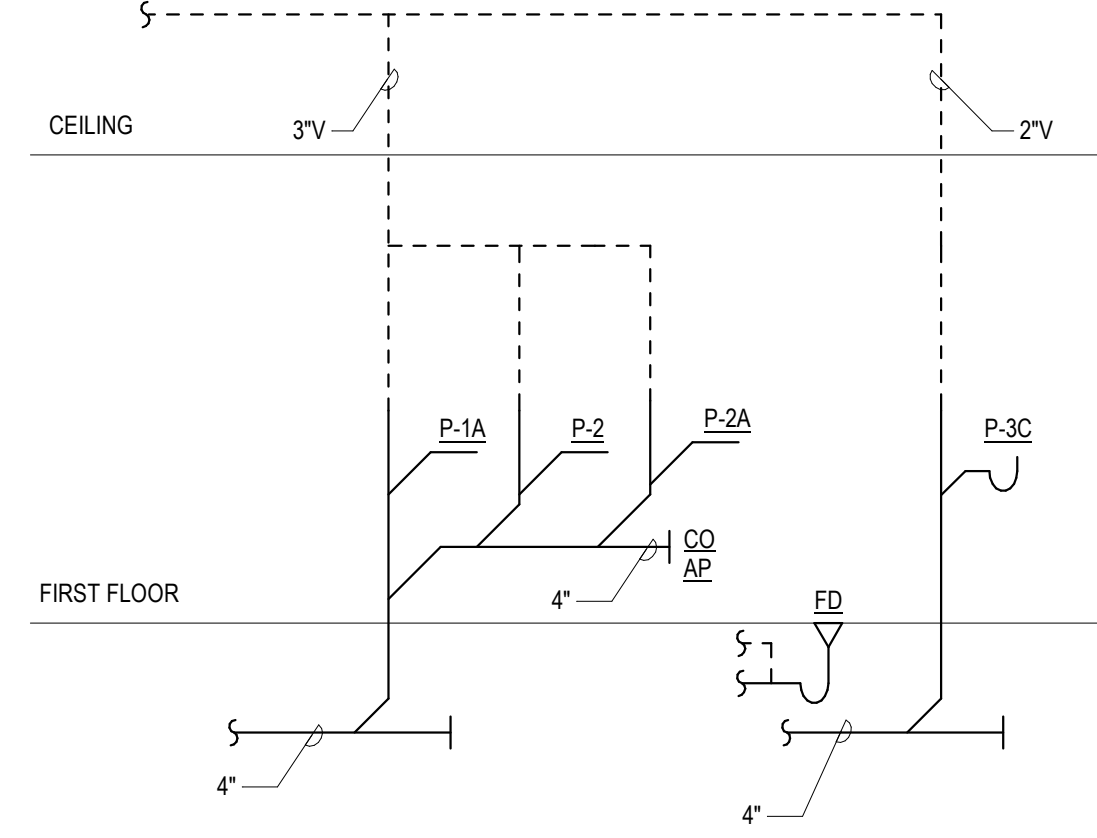
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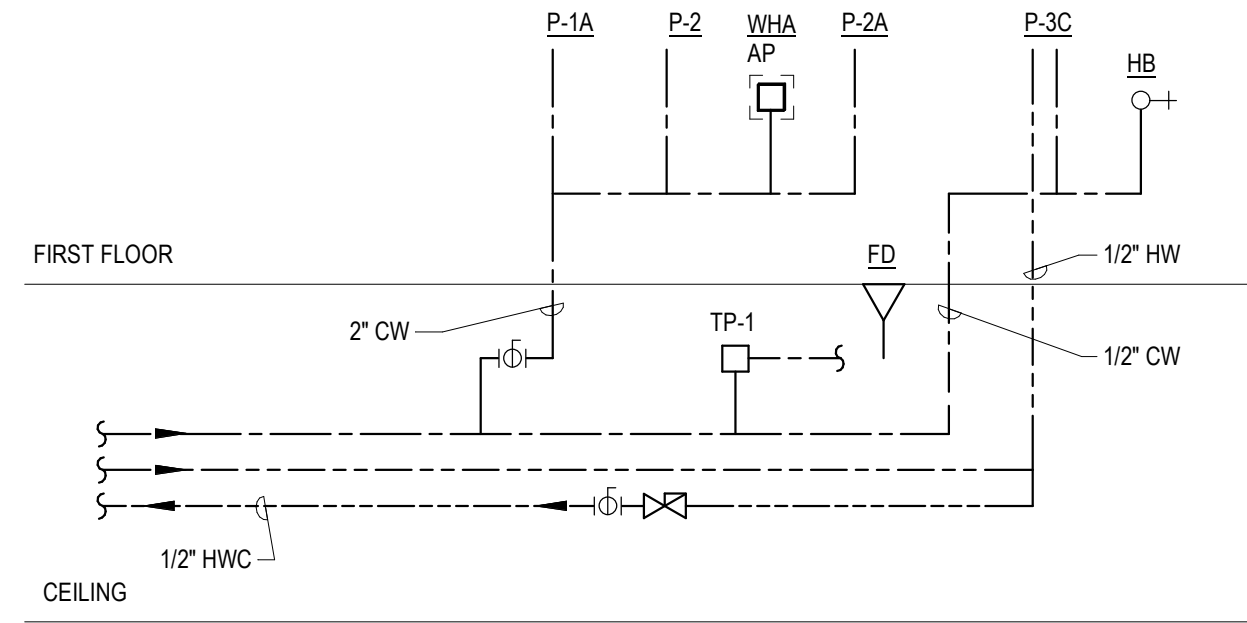
③ TOILET ROOMS C107-C108 SANITARY RISER  
N.T.S.



④ TOILET ROOMS C107-C108 WATER RISER  
N.T.S.



⑤ TOILET ROOMS D117A SANITARY RISER  
N.T.S.



⑥ TOILET ROOMS D117A WATER RISER  
N.T.S.

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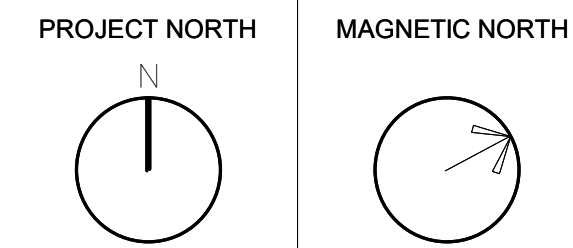
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**PLUMBING  
RISER**

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Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
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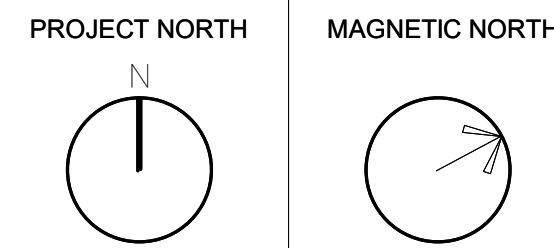
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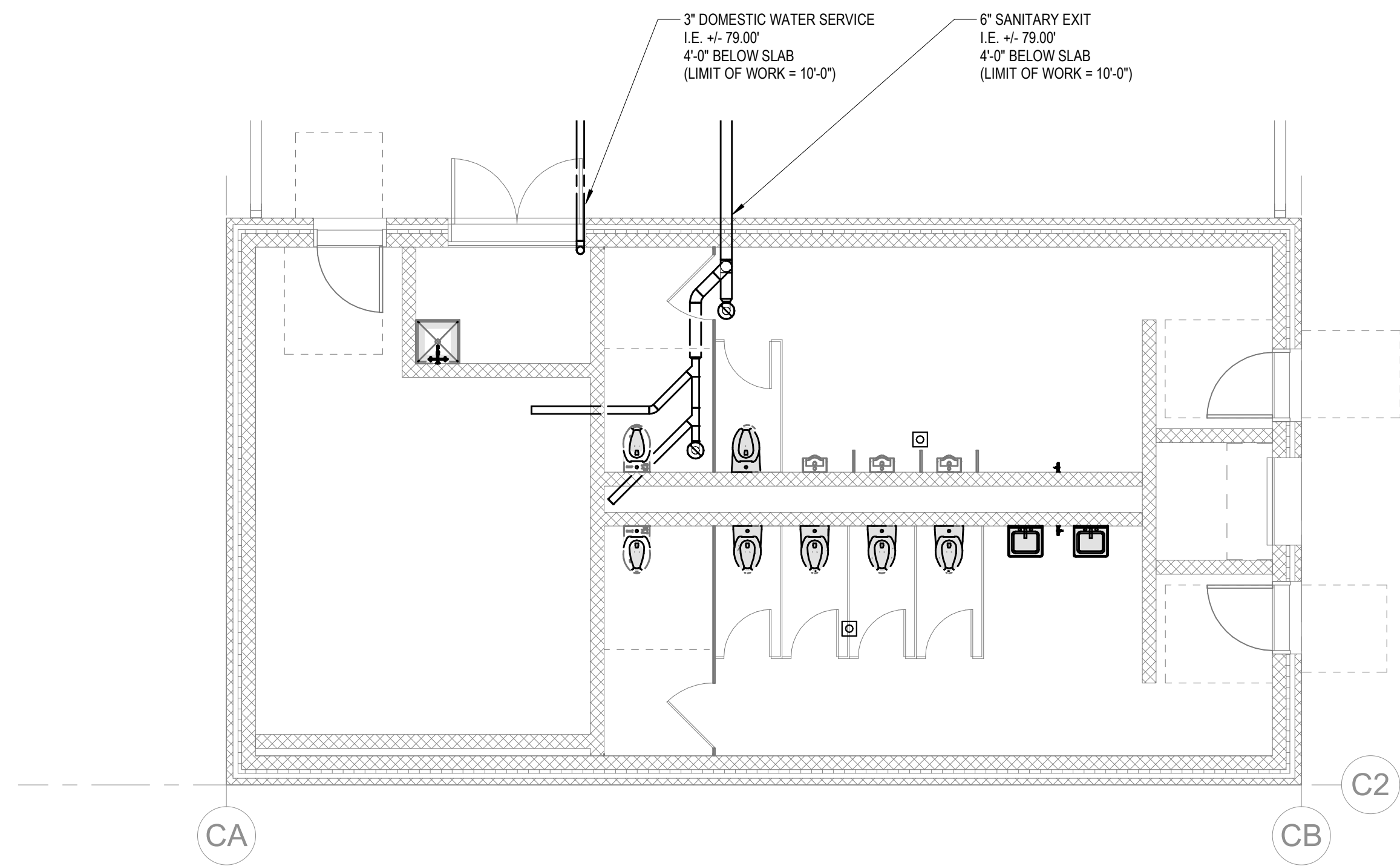
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January 13, 2023



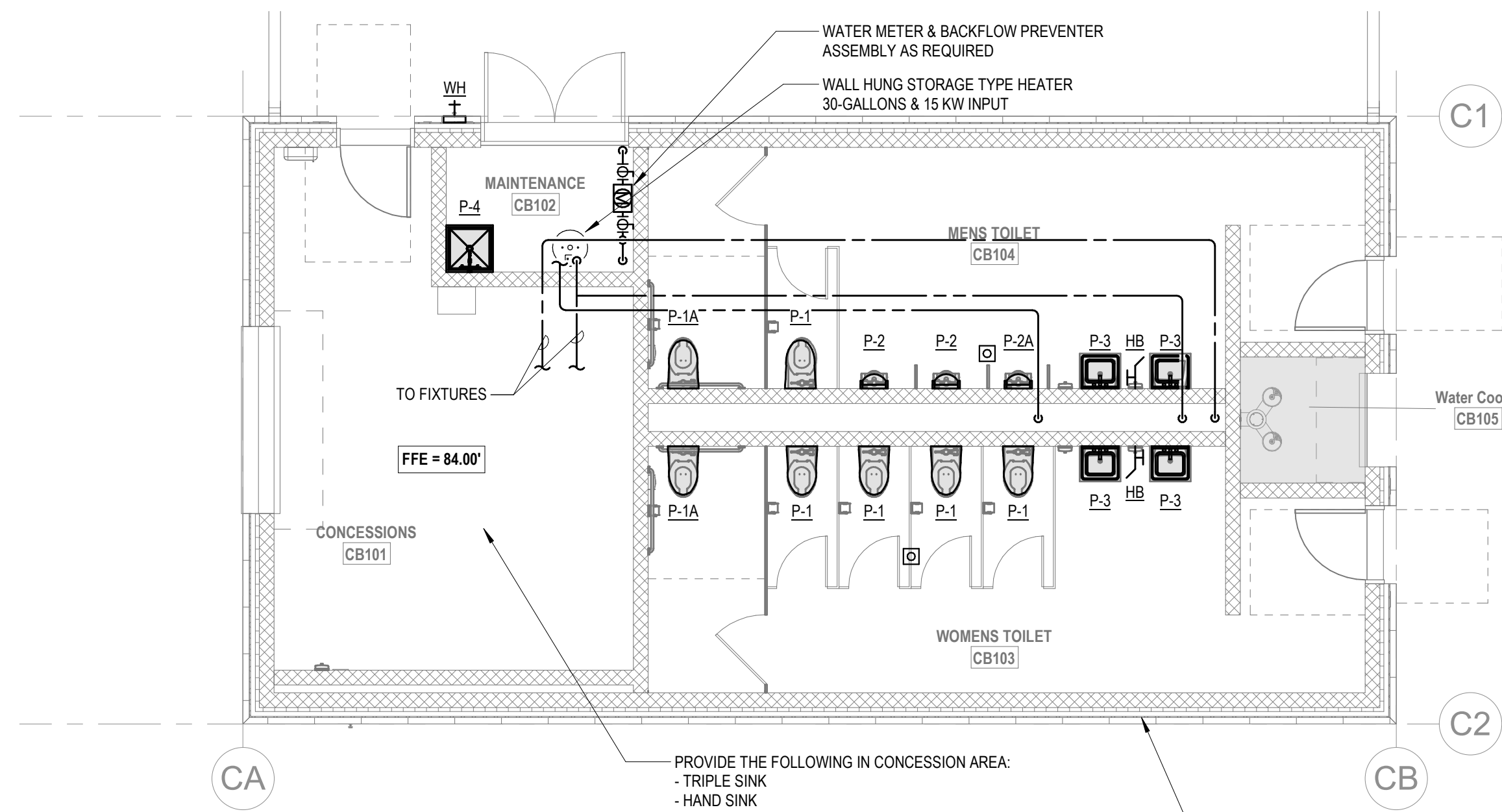
**PLUMBING  
CONCESSIONS  
FLOOR LEVEL  
PLAN**

Scale: 3/16" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
**PC-1-1**

SCOPE NOTE:  
SCOPE OF WORK FOR THIS BUILDING SHALL BE PRICED AS AN ADD ALTERNATE.



**2 PLUMBING - CONCESSIONS BELOW SLAB**  
3/16" = 1'-0"

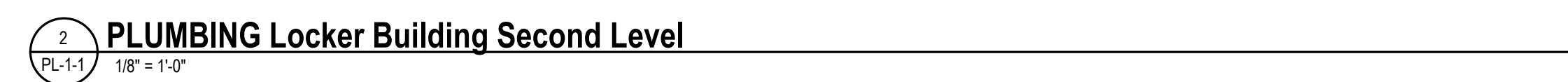
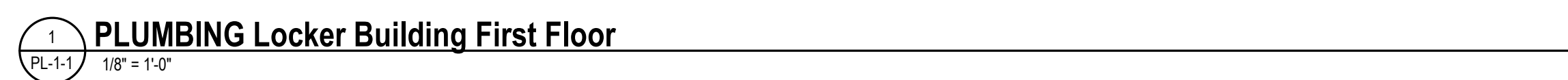
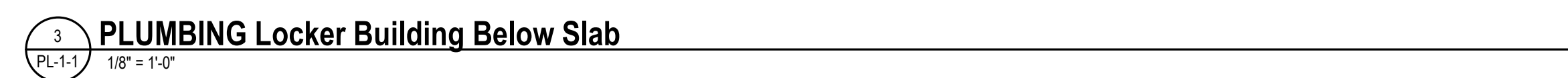


**1 PLUMBING - CONCESSIONS FLOOR LEVEL PLAN**  
3/16" = 1'-0"

SCOPE NOTES:  
1. IT IS ASSUMED THAT THIS BUILDING WILL INCLUDE A SLOPED ROOF TO DRAIN TO EXTERIOR GUTTED AND DOWNSPOUTS BY GENERAL CONTRACTOR.  
2. PIPING SYSTEM FOR THIS BUILDING SHALL BE SLOPED AND PROVIDED WITH LOW POINT DRAIN VALVES AS TO ALLOW COMPLETE DRAIN DOWN PRIOR TO WINTER SEASON.

The advertisement features a large, bold, black serif font spelling out 'DRA' against a white background. Below this, the company name 'Drummey Rosane Anderson, Inc.' is printed in a smaller, black, sans-serif font. The company's address is split into two columns: '225 Oakland Road Studio 205 South Windsor, CT 06074' on the left and '260 Charles Street Studio 300 Waltham, MA 02453' on the right. At the bottom, the company's services 'Planning | Architecture | Interior Design' are listed in a bold, black, sans-serif font, followed by contact information: 'Tel: 617.964.1700' and 'www.draas.com'.

Wakefield, MA 01880



**BALA**  
ENGINEERS

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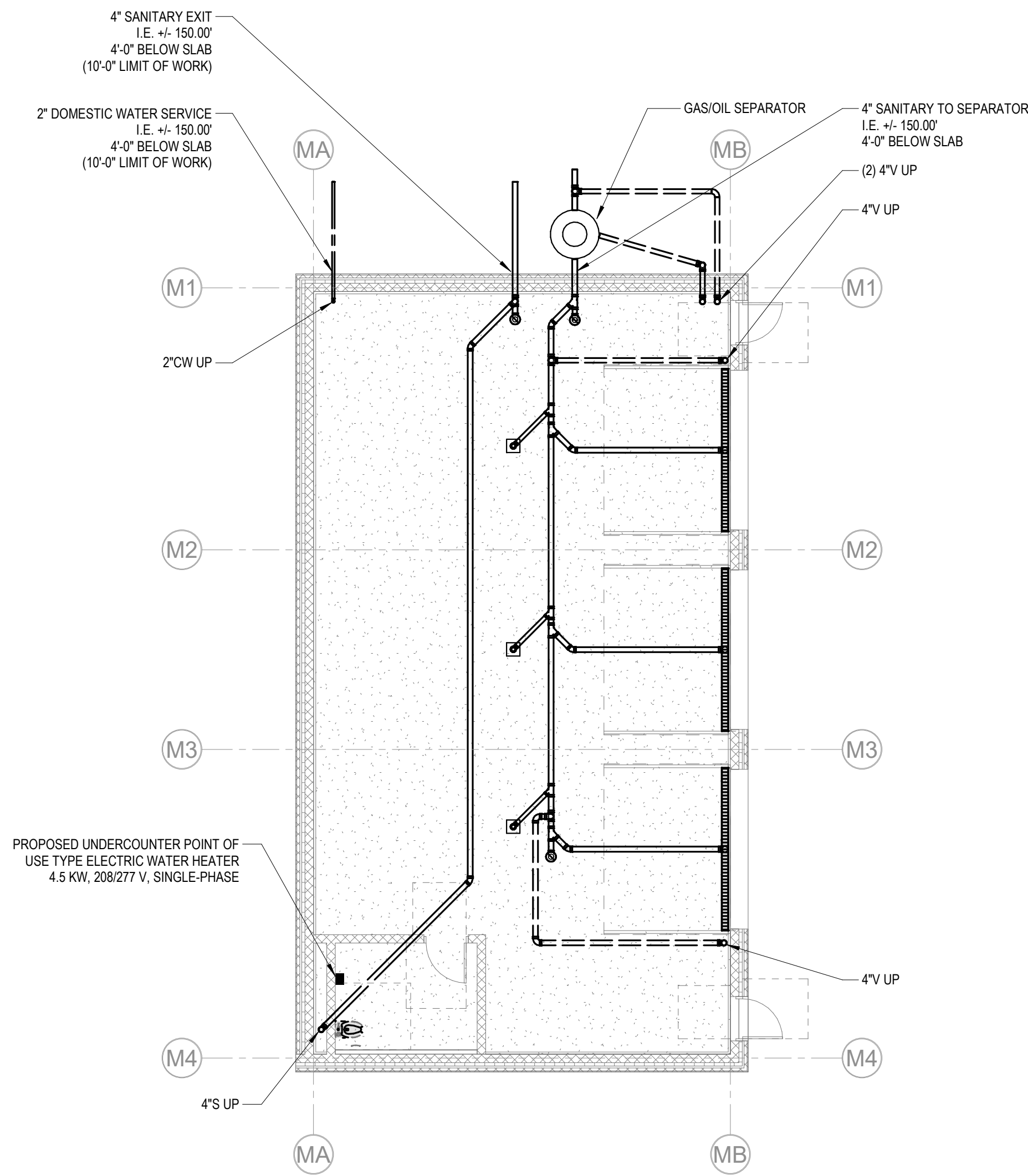
MICHAEL J. GUTWALD / FLOORING & FIRE PROTECTION  
STRUCTURAL / TECHNICAL / CONSTRUCTION

January 13, 2023

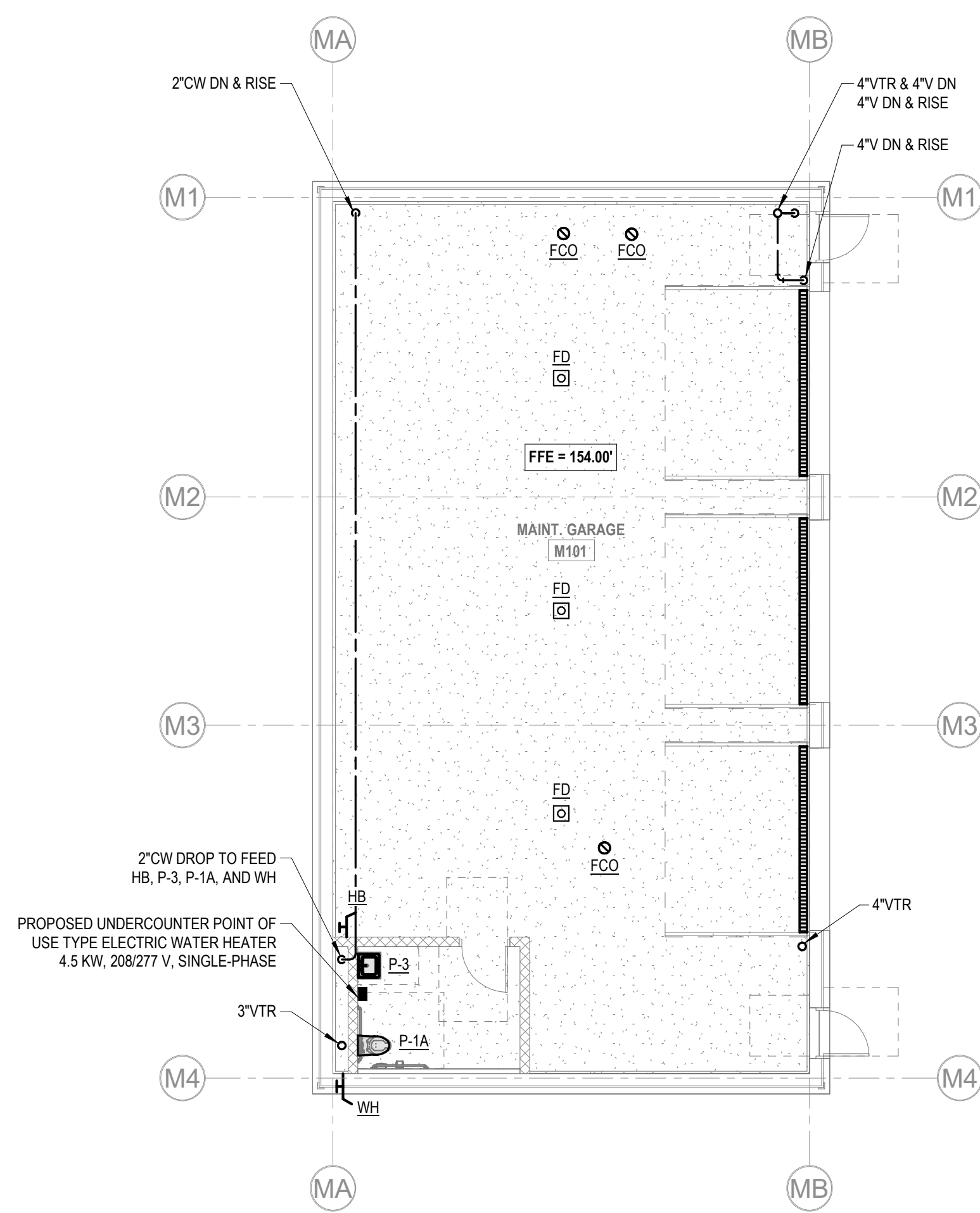


**PL-1-1**

SCOPE NOTES:  
1. SCOPE OF WORK FOR THIS BUILDING SHALL BE PRICED AS AN ADD ALTERNATE.  
2. IT IS ASSUMED THAT THIS BUILDING IS TO INCLUDE A SLOPE TO GUTTERS AND DOWNSPOUT BY GENERAL CONTRACTOR.  
3. IT IS TO BE VERIFIED THAT THE ACTIVITIES PLANNED AT THIS BUILDING WILL NOT REQUIRED THE NEED FOR AN EMERGENCY SHOWER/EYEWASH UNIT AND ASSOCIATED DOMESTIC HOT WATER.



1 PLUMBING Maintenance Building Plan Below Slab  
1/8" = 1'-0"



2 PLUMBING Maintenance Building Plan  
1/8" = 1'-0"

DRA

Drummeey Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT 06074  
Tel: 817.984.1700  
www.dra.com

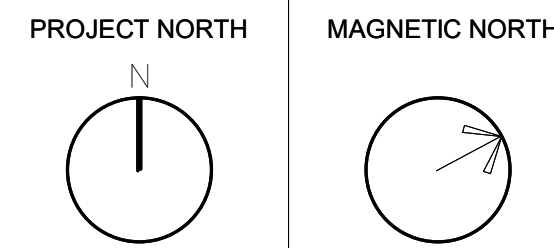
Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

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MSBA 60% CD  
SUBMISSION  
January 13, 2023



PLUMBING  
MAINTENANCE  
BUILDING PLAN

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

PM-1-1