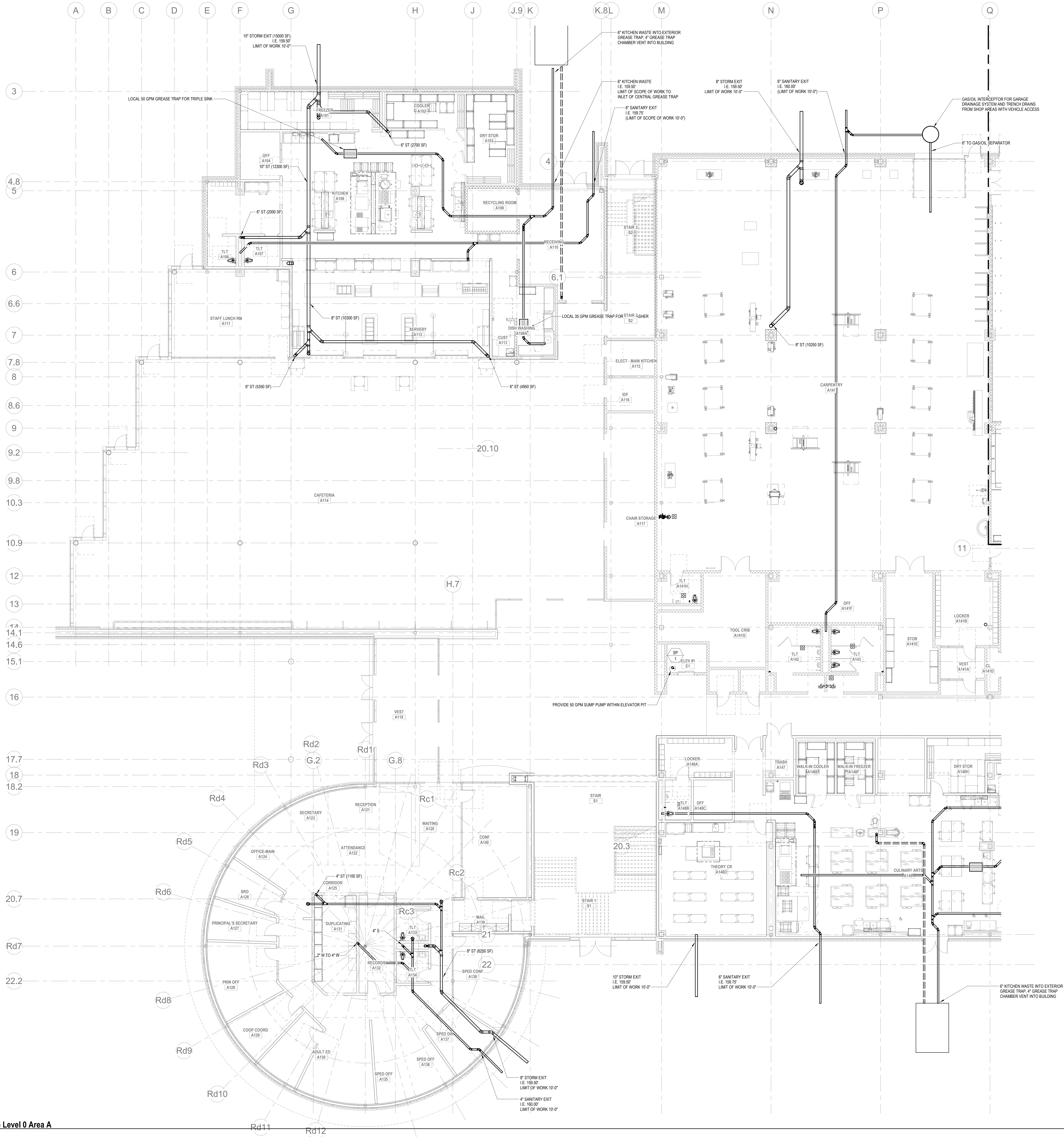


DRAWING NUMBER	DRAWING TITLE	05-03-2021 SCHEMATIC DESIGN	06-03-2022 DESIGN DEVELOPMENT COST ESTIMATE SET	09-04-2022 MSBA DESIGN DEVELOPMENT
P0-D-1	PLUMBING LEGENDS, ABBREVIATIONS, AND GENERAL NOTES			
P1-Q-0A	PLUMBING FIRST FLOOR PLAN - AREA A BELOW SLAB			
P1-Q-0B	PLUMBING FIRST FLOOR PLAN - AREA B BELOW SLAB			
P1-Q-0C	PLUMBING LOWER LEVEL FLOOR PLAN - AREA C BELOW SLAB			
P1-Q-0D	PLUMBING LOWER LEVEL FLOOR PLAN - AREA D BELOW SLAB			
P1-1-0C	PLUMBING LOWER LEVEL FLOOR PLAN - AREA C			
P1-1-0D	PLUMBING LOWER LEVEL FLOOR PLAN - AREA D			
P1-1-1A	PLUMBING FIRST FLOOR PLAN - AREA A			
P1-1-1B	PLUMBING FIRST FLOOR PLAN - AREA B			
P1-1-1C	PLUMBING FIRST FLOOR PLAN - AREA C			
P1-1-1D	PLUMBING FIRST FLOOR PLAN - AREA D			
P1-1-2A	PLUMBING SECOND FLOOR PLAN - AREA A			
P1-1-2B	PLUMBING SECOND FLOOR PLAN - AREA B			
P1-1-2C	PLUMBING SECOND FLOOR PLAN - AREA C			
P1-1-2D	PLUMBING SECOND FLOOR PLAN - AREA D			
P1-1-3A	PLUMBING THIRD FLOOR PLAN - AREA A			
P1-1-3B	PLUMBING THIRD FLOOR PLAN - AREA B			
P1-1-3C	PLUMBING THIRD FLOOR PLAN - AREA C			
P1-1-3D	PLUMBING THIRD FLOOR PLAN - AREA D			
P1-1-4A	PLUMBING FOURTH FLOOR PLAN - AREA A			
P1-1-4B	PLUMBING FOURTH FLOOR PLAN - AREA B			
P1-1-4C	PLUMBING FOURTH FLOOR PLAN - AREA C			
P1-1-4D	PLUMBING FOURTH FLOOR PLAN - AREA D			
P1-2-1A	PLUMBING ROOF PLAN - AREA A			
P1-2-1B	PLUMBING ROOF PLAN - AREA B			
P1-2-1C	PLUMBING ROOF PLAN - AREA C			
P1-2-1D	PLUMBING ROOF PLAN - AREA D			
P4-D-1	PLUMBING DETAILS SHEET			
P4-G-1	PLUMBING SCHEDULES SHEET			
PC-1-1	PLUMBING - CONCESSIONS FLOOR LEVEL PLAN			
P6-1-1	PLUMBING LOOER BUILDING PLAN			
PM-A-1	PLUMBING MAINTENANCE BUILDING PLAN			



SCOPE NOTE:

1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR EACH 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 MAIN 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.

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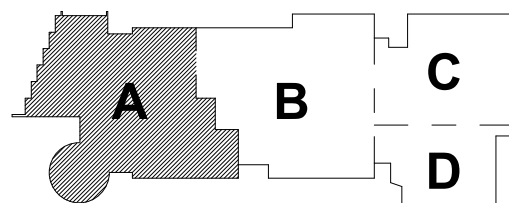
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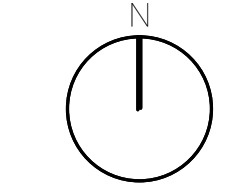
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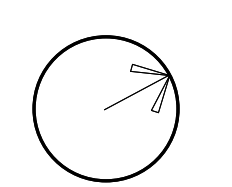


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



PLUMBING FIRST
FLOOR PLAN -
AREA A BELOW
SLAB

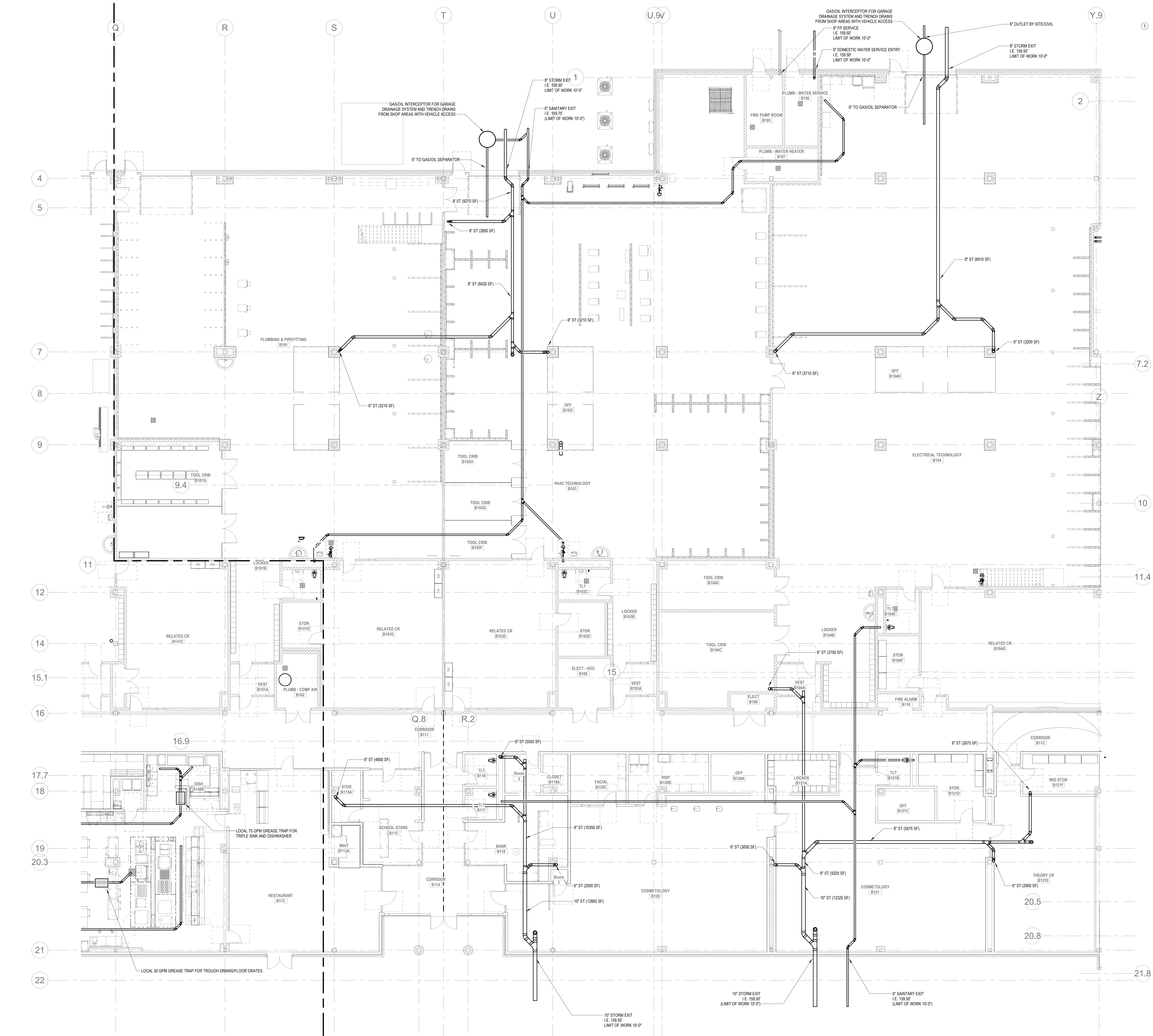
Scale: 1/8" = 1'-0"

Job No.: 20202

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P1-0-0A



- SCOPE NOTE:
1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RACH MITIGATION. PROVIDE 8" VENT FROM UNDERSLAB THROUGH ROOF PER 10,000 SF. FOR THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
 2. PROVIDE DEDICATED VENTING FROM UNDERSLAB DRAINAGE SYSTEM THROUGH ROOF.
- KEY NOTES:
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1 PLUMBING Level 0 Area B
1/8" = 1'-0"

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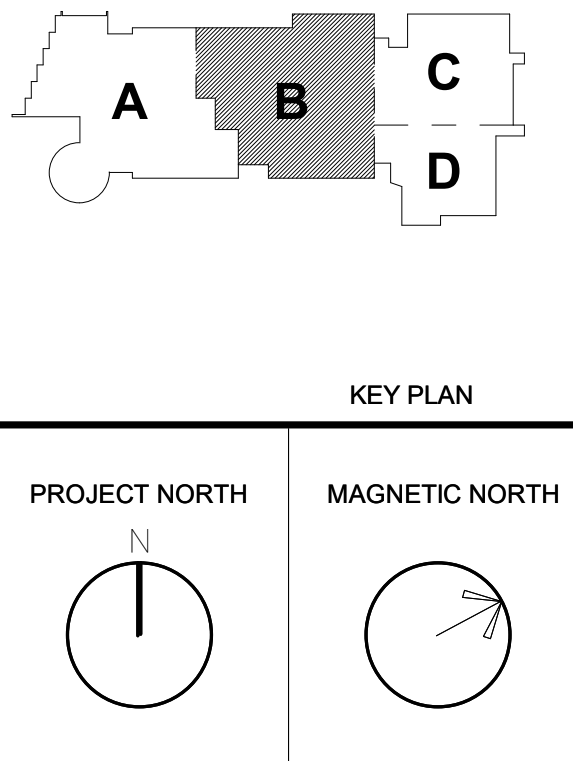
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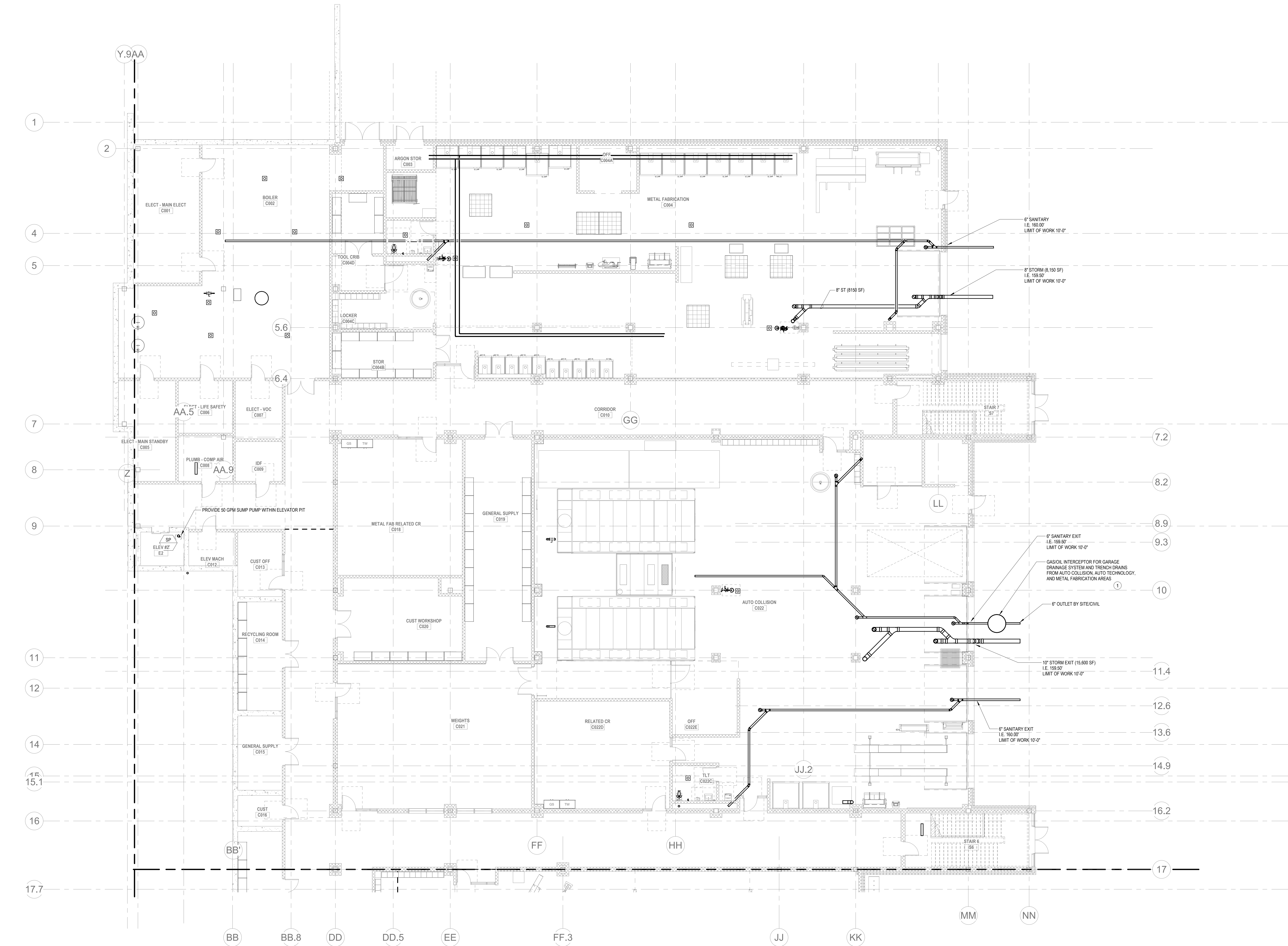
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**PLUMBING FIRST
FLOOR PLAN -
AREA B BELOW
SLAB**

Scale: 1/8" = 1'-0"
Job No.: 20022
Drawn By: DRA
Date: August 4th, 2022

P1-0-0B



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

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 MAIN 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.

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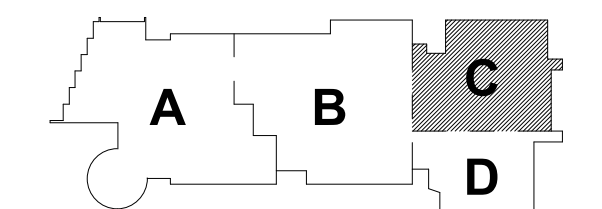
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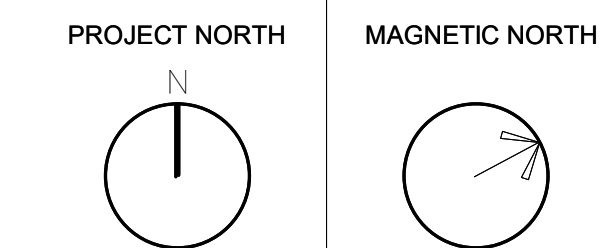
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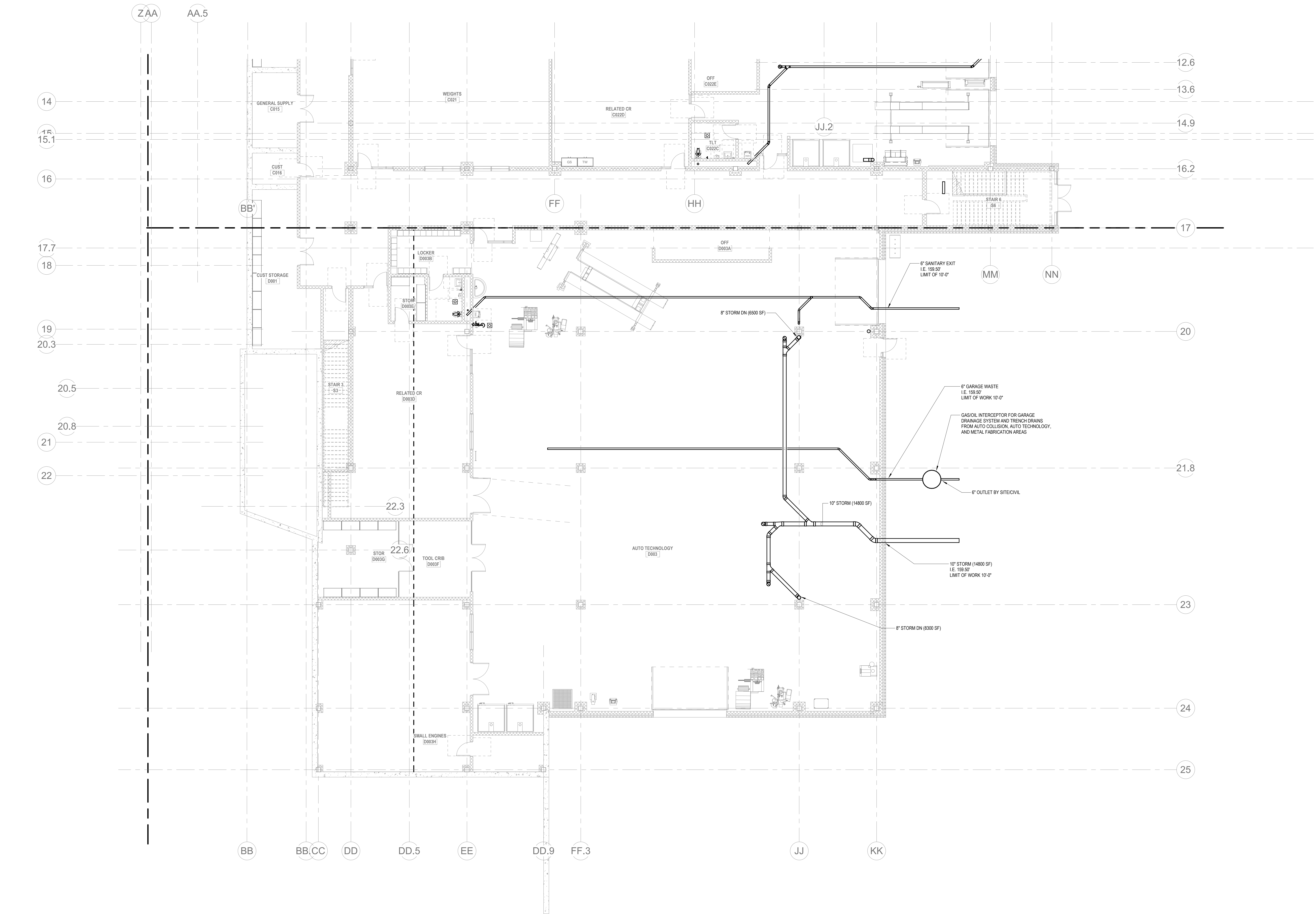
KEY PLAN



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

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-0-0C



1 PLUMBING Level 0 Area D - Below Slab
1/8" = 1'-0"

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.
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 MAN TO HANDLE ALL ROOF DRAINS FOR THIS BUILDING SEGMENT. REFER TO ARCHITECTURAL DRAWINGS FOR QUANTITY & LOCATIONS.

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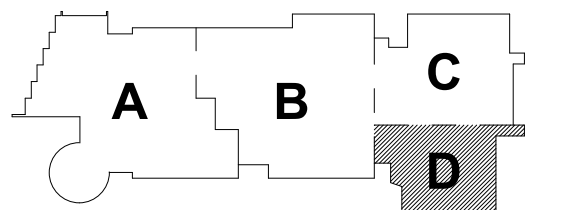
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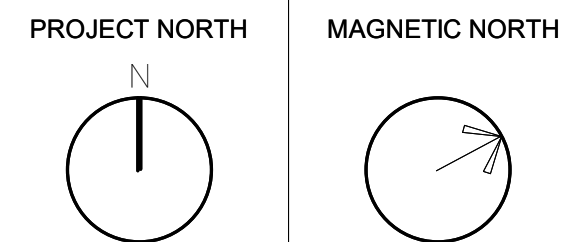
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KEY PLAN



**PLUMBING
LOWER LEVEL
FLOOR PLAN -
AREA D BELOW
SLAB**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-0-0D

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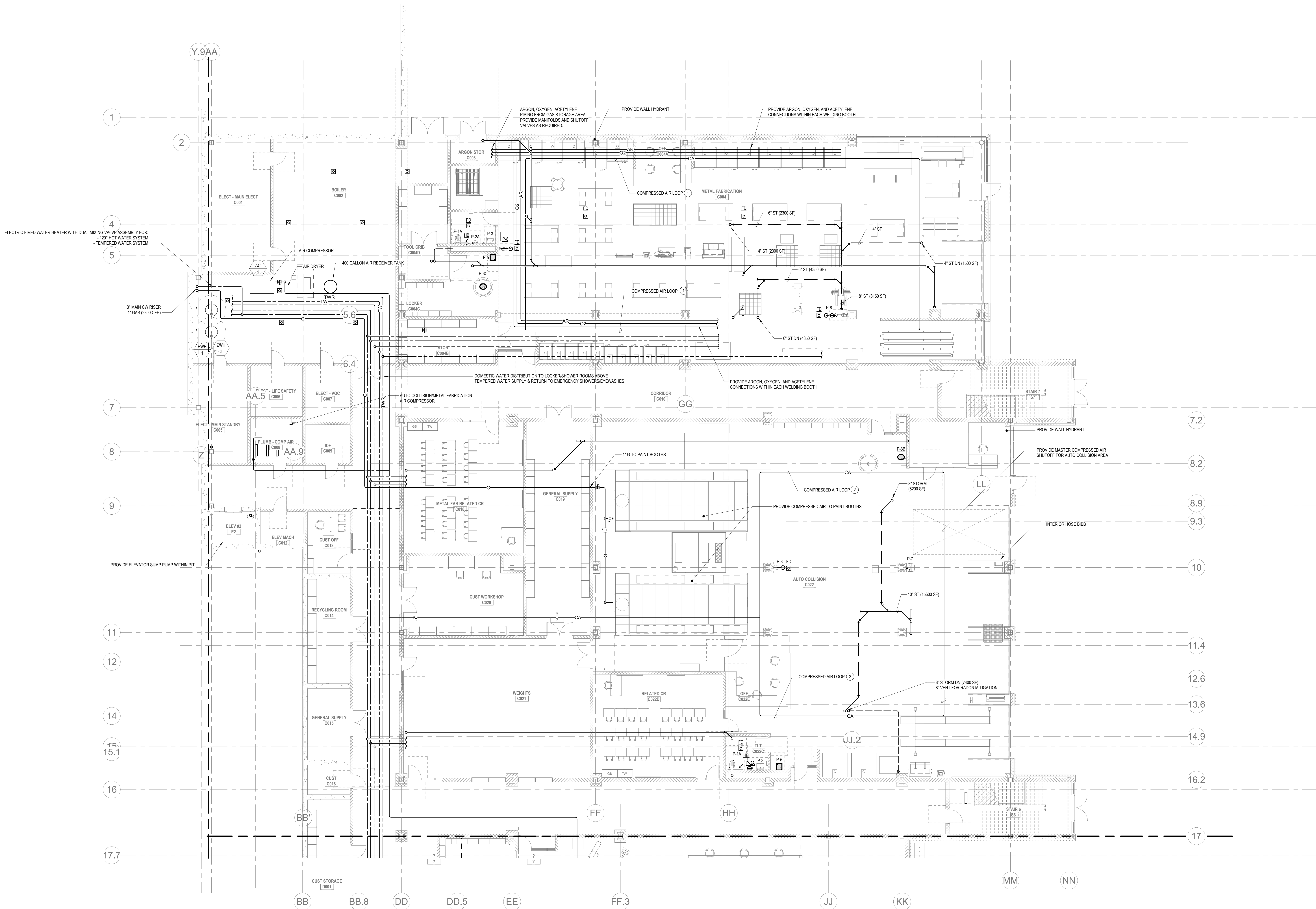
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KEY NOTES:

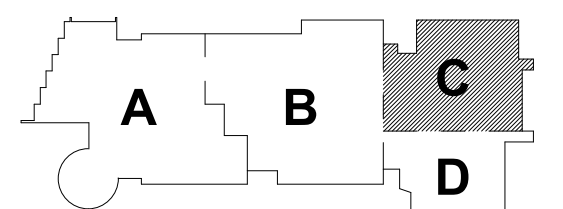
- 1 PROVIDE AN ALLOWANCE FOR (10) COMPRESSED AIR DROPS WITHIN METAL FABRICATION SHOP. EACH COMPRESSED AIR DROP SHALL INCLUDE A SHUTOFF VALVE, AIR FILTER, PRESSURE GAUGE, AND AIR PRESSURE REGULATOR. PROVIDE 50 FOOT HOSE REEL FOR EACH DROP.
- 2 PROVIDE AN ALLOWANCE FOR (10) COMPRESSED AIR DROPS WITHIN AUTO COLLISION 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.



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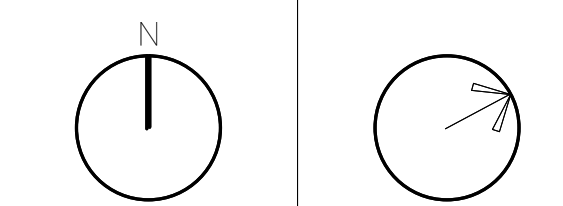
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH

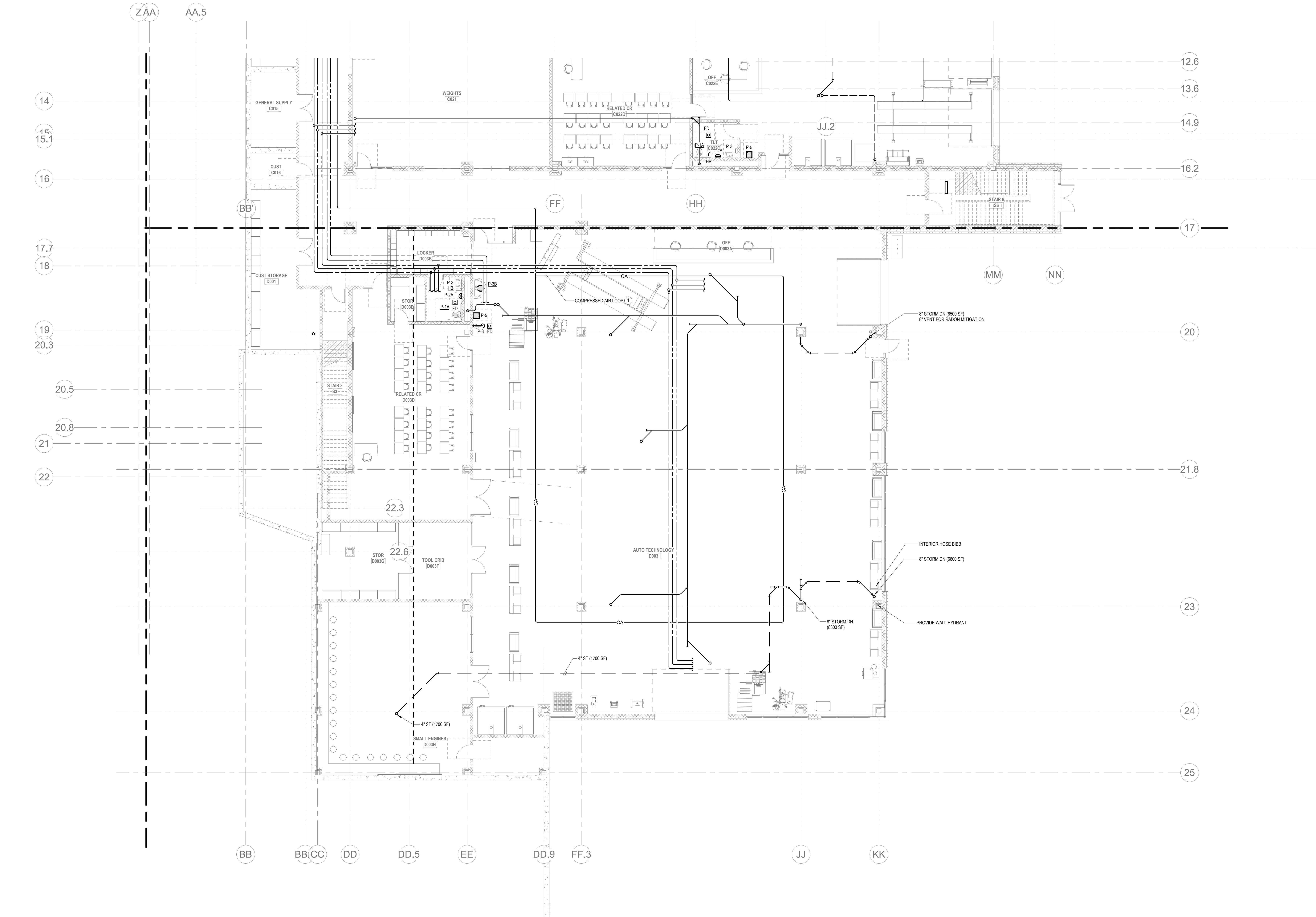


**PLUMBING
LOWER LEVEL
FLOOR PLAN -
AREA C**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-0C

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



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

KEY NOTES:
1 PROVIDE AN ALLOWANCE FOR (15) COMPRESSED AIR DROPS WITHIN AUTO TECHNOLOGY SHOP. EACH COMPRESSED AIR DROP SHALL INCLUDE A SHUT-OFF VALVE, AIR FILTER, PRESSURE GAUGE, AND AIR PRESSURE REGULATOR. PROVIDE 50 FOOT HOSE REEL FOR EACH DROP.

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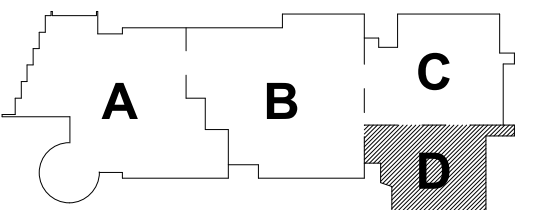
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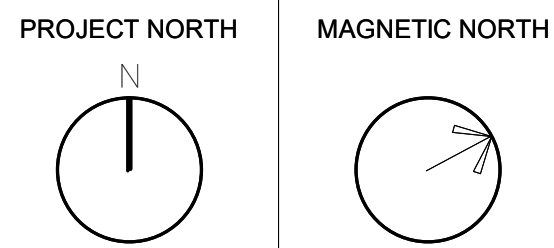
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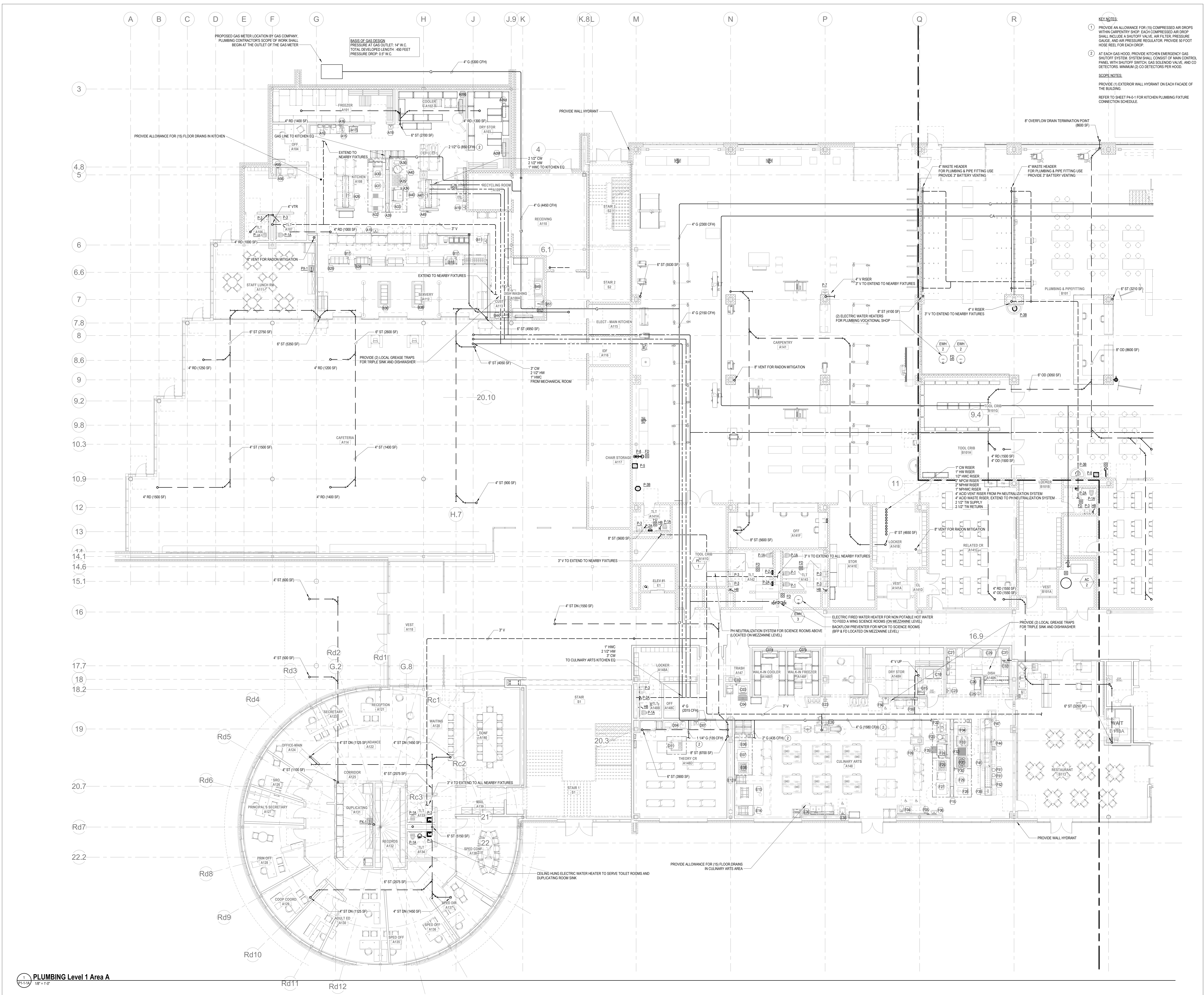


KEY PLAN



PLUMBING
LOWER LEVEL
FLOOR PLAN -
AREA D

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
P1-1-0D



KEY NOTES:

1. PROVIDE AN ALLOWANCE FOR (15) COMPRESSED AIR DROPS WITHIN CARPENTRY 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. 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 P1-1 FOR KITCHEN PLUMBING FIXTURE CONNECTION SCHEDULE.

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KEY PLAN

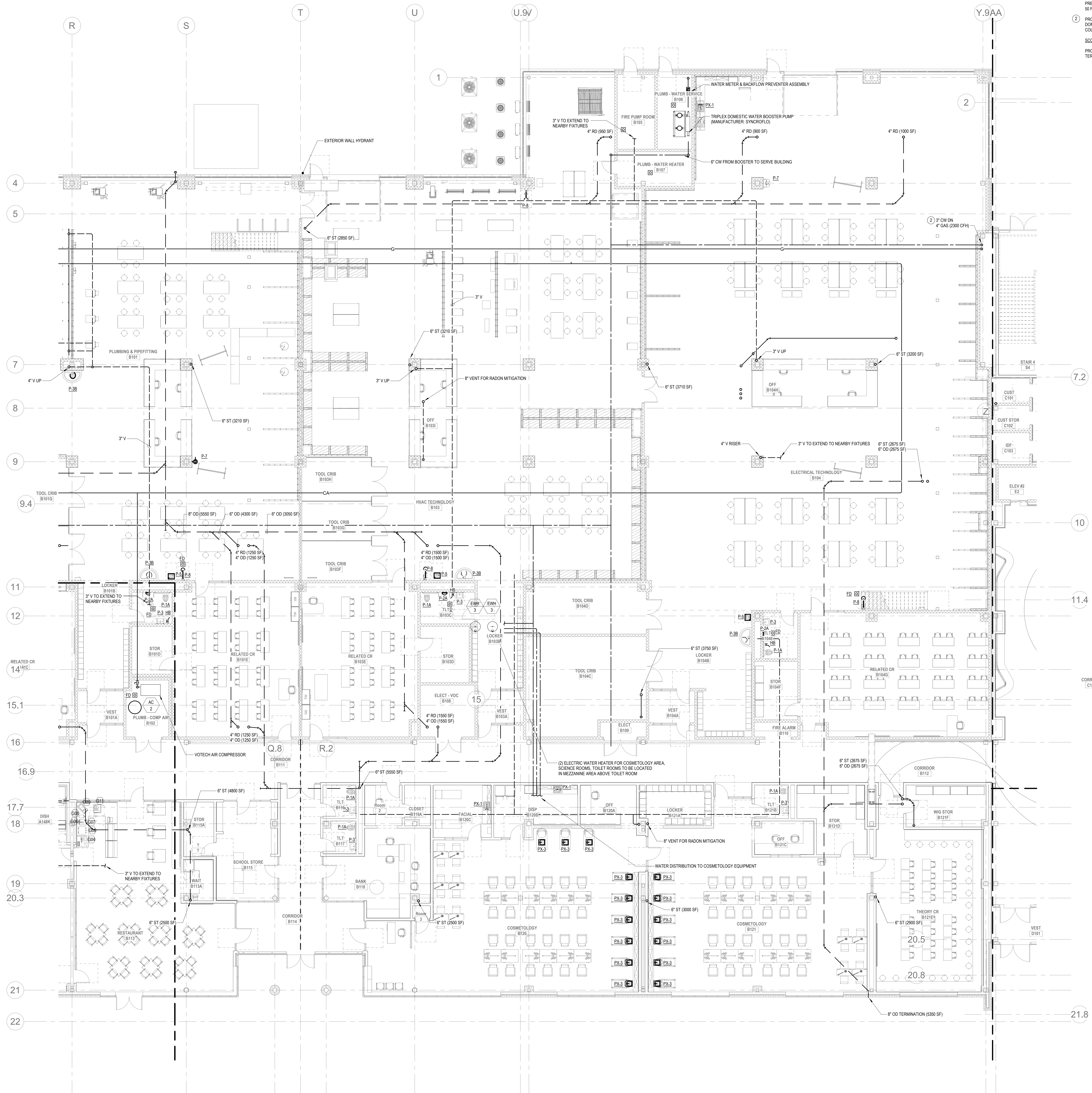
PROJECT NORTH

MAGNETIC NORTH

PLUMBING FIRST FLOOR PLAN - AREA A

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-1A



- KEY NOTES:
1. PROVIDE AN ALLOWANCE FOR (10) COMPRESSED AIR DROPS WITHIN HVAC TECHNOLOGY SHOP. EACH COMPRESSED AIR DROP SHALL INCLUDE A SHUT-OFF 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.
- SCOPE NOTES:
- PROVIDE ALLOWANCE FOR 6\"/>

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KEY PLAN

PROJECT NORTH
MAGNETIC NORTH

PLUMBING FIRST
FLOOR PLAN -
AREA B

Scale: 1/8" = 1'-0"
Job No.: 20022
Drawn By: DRA
Date: August 4th, 2022

P1-1-B

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

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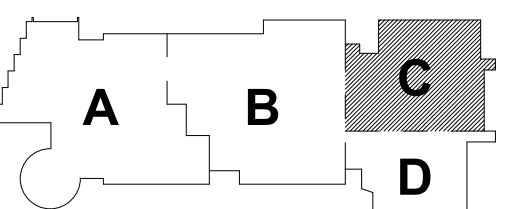
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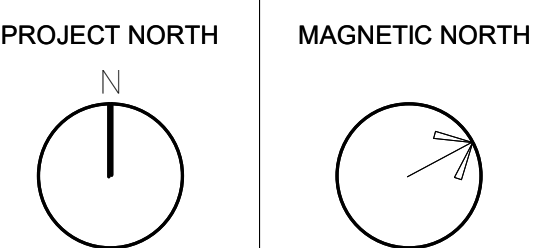
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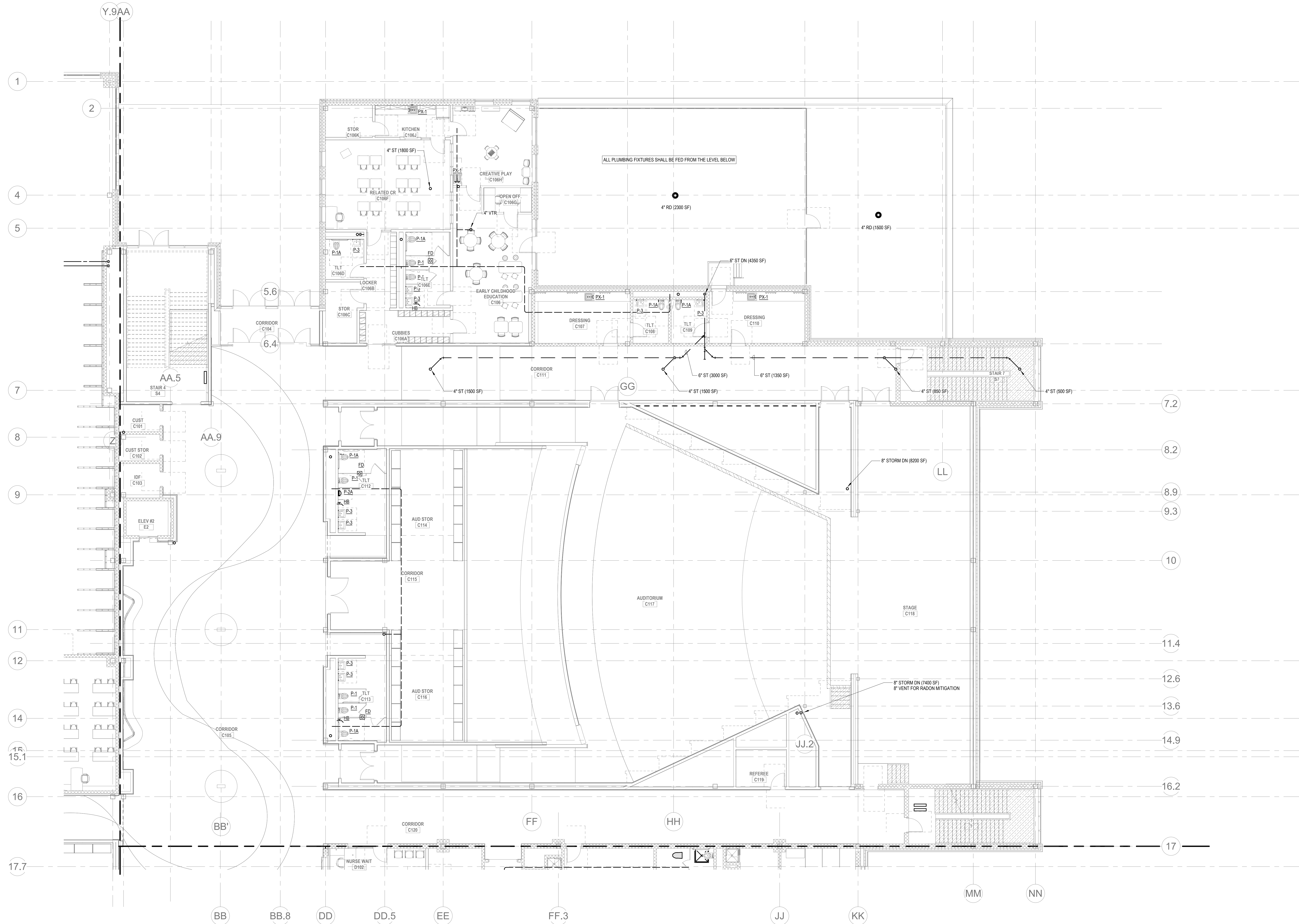
KEY PLAN



**PLUMBING FIRST
FLOOR PLAN -
AREA C**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-1C



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

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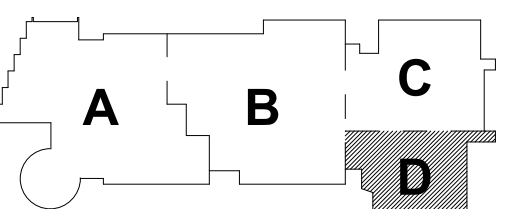
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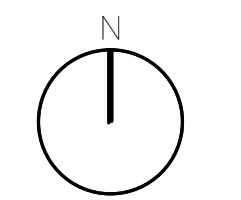
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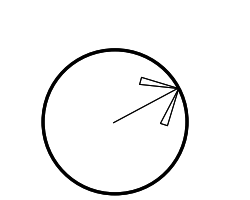


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**PLUMBING FIRST
FLOOR PLAN -
AREA D**

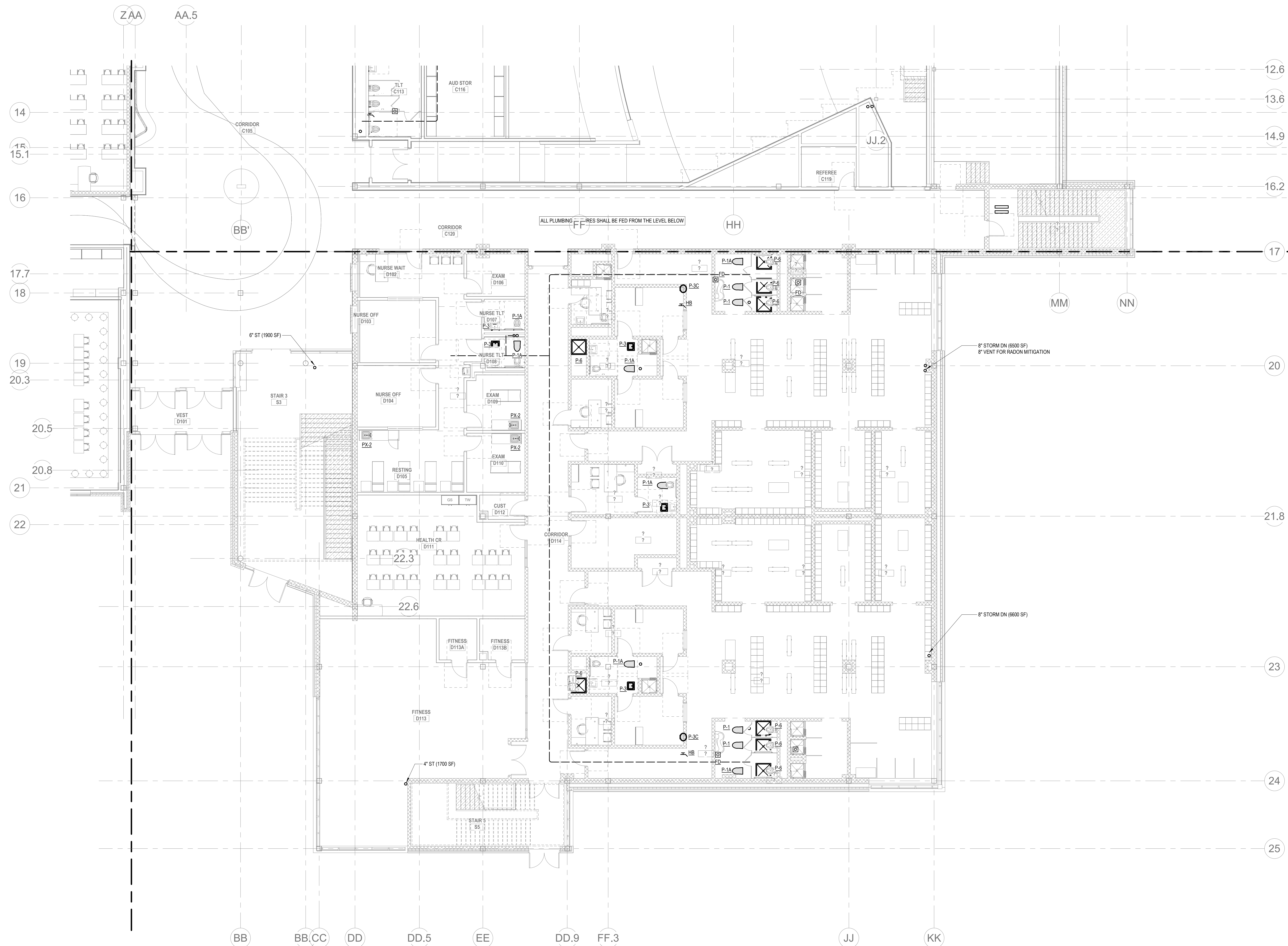
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Job No.: 20202

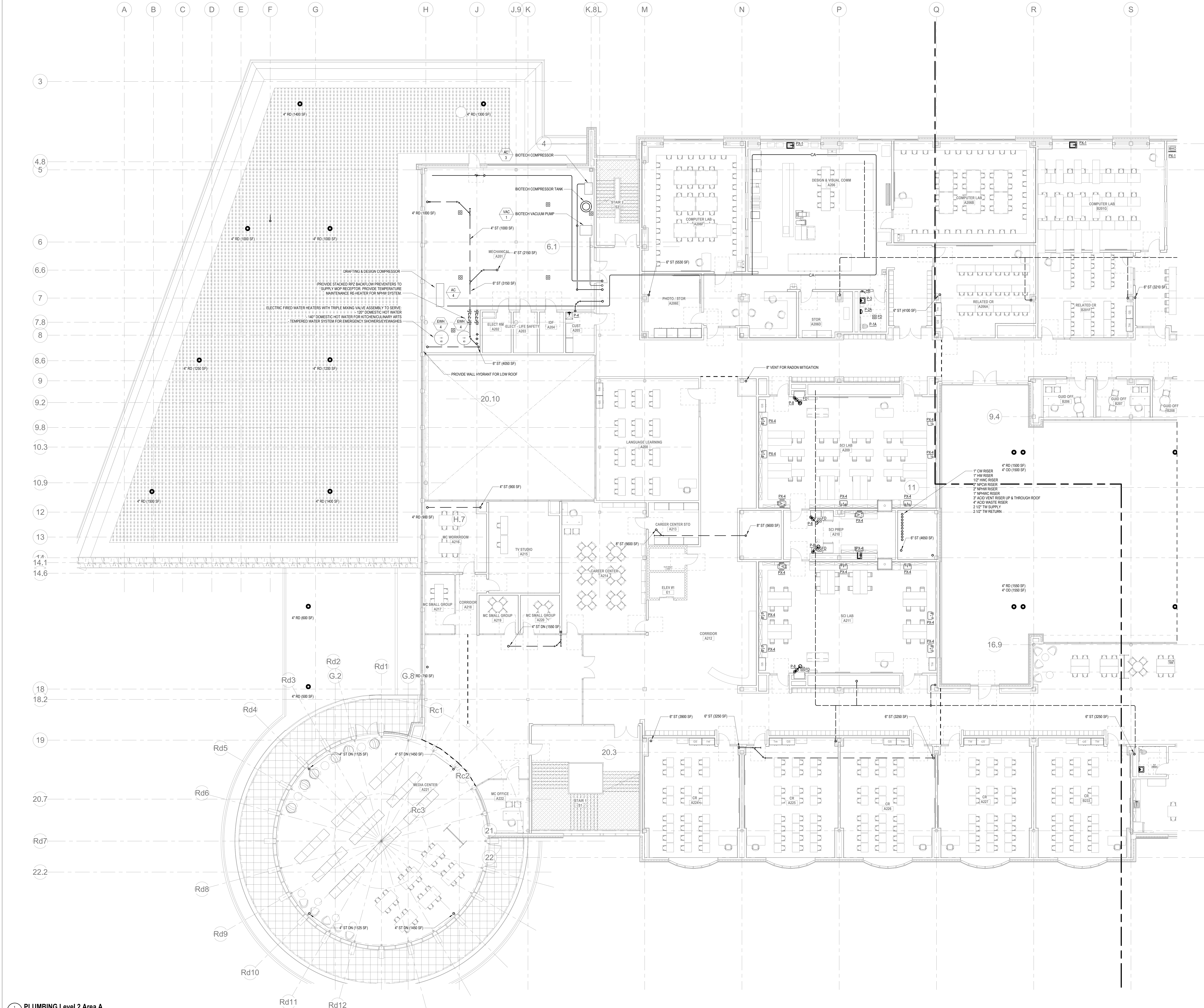
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P1-1-D



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



PLUMBING Level 2 Area A

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KEY PLAN

PROJECT NORTH
MAGNETIC NORTH

PLUMBING
SECOND FLOOR
PLAN - AREA A

Scale: 1/8" = 1'-0"
Job No.: 20022
Drawn By: DRA
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P1-1-2A

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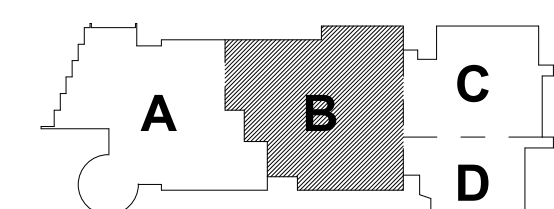
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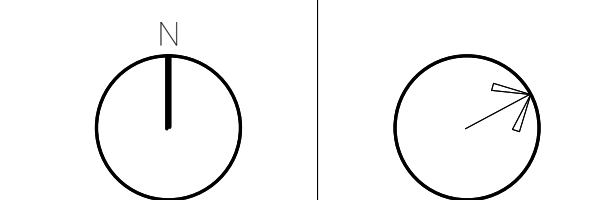
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KEY PLAN

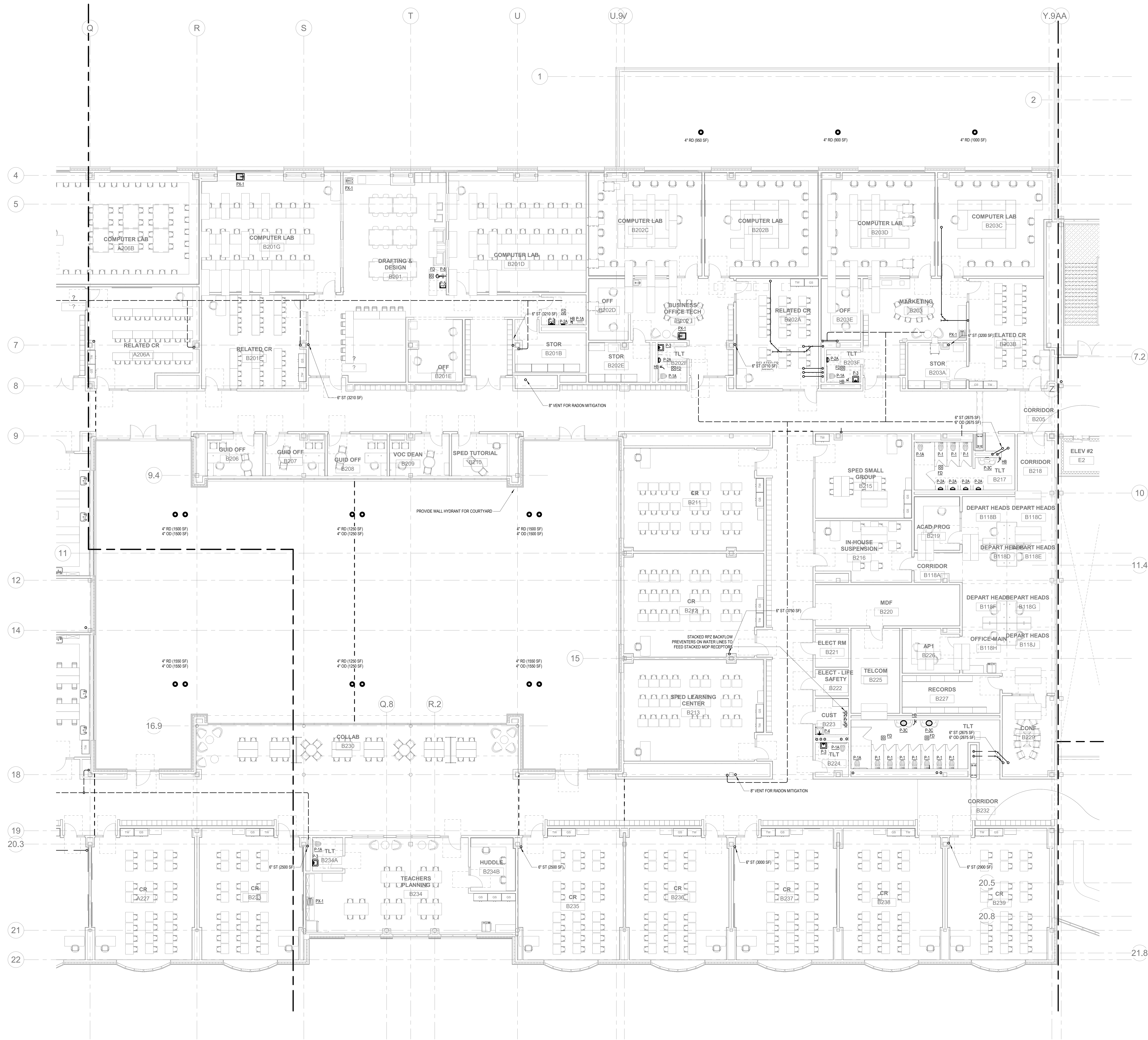
PROJECT NORTH MAGNETIC NORTH



PLUMBING
SECOND FLOOR
PLAN - AREA B

Scale: 1/8" = 1'-0"
Job No.: 2002
Drawn By: DRA
Date: August 4th, 2022

P1-1-2B



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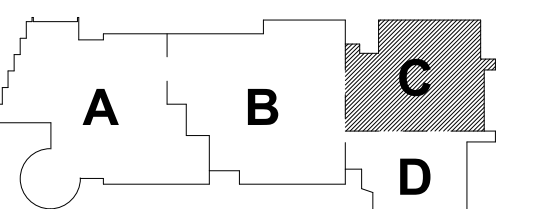
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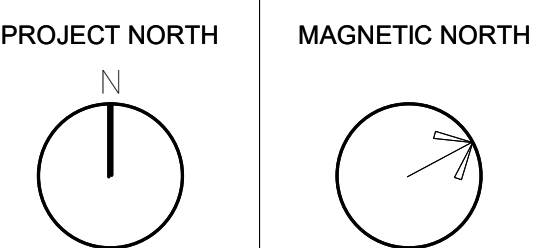
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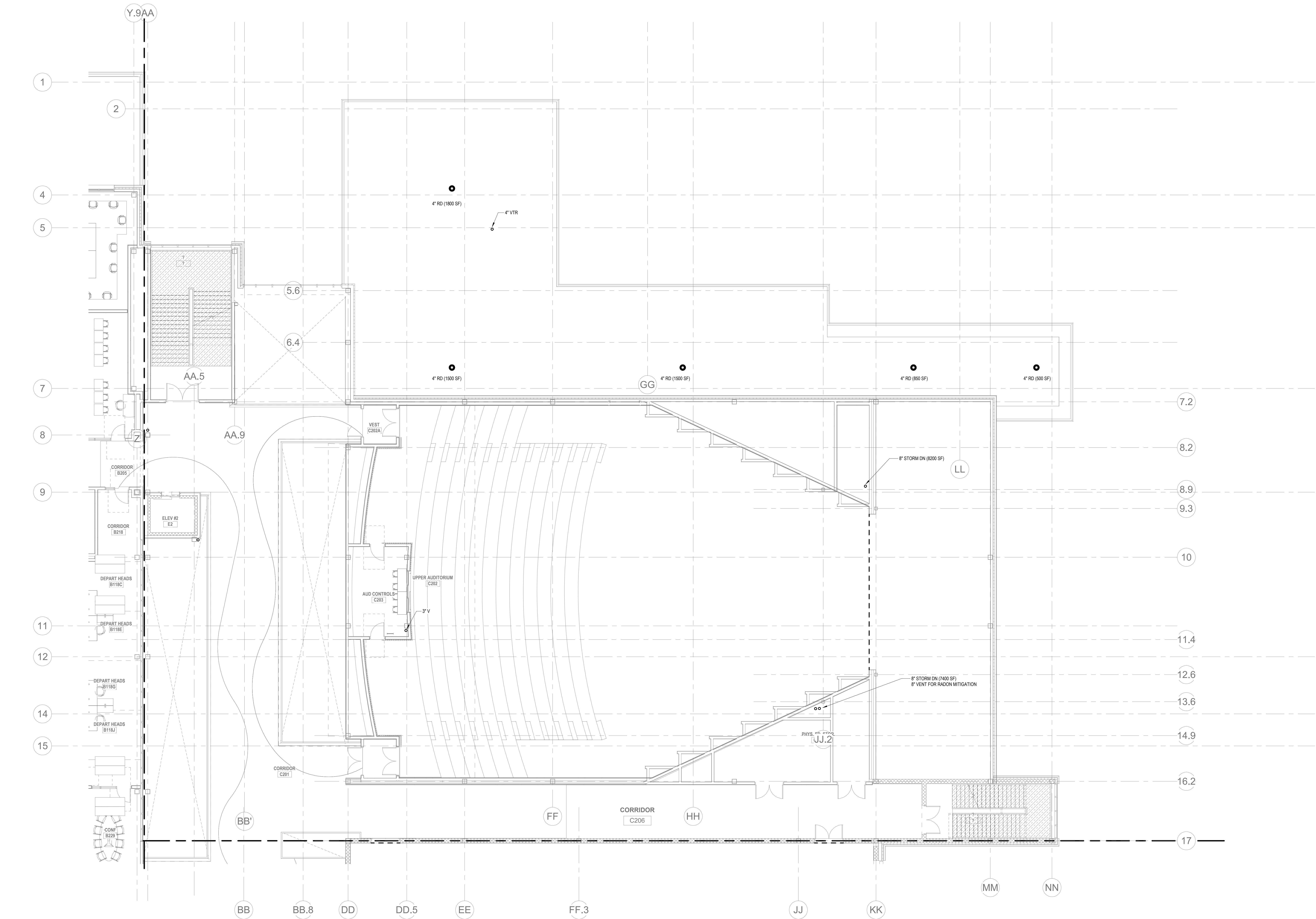


KEY PLAN



PLUMBING
SECOND FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 20202
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P1-1-2C



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

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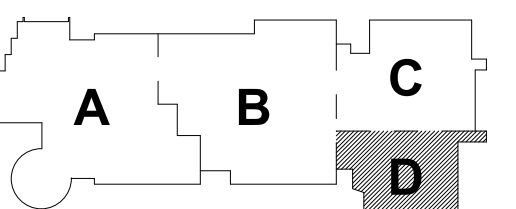
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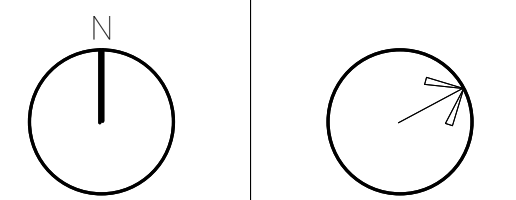
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DRAWN: CONSULTING ENGINEERS
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APPROVED: CONSULTING ENGINEERS

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KEY PLAN

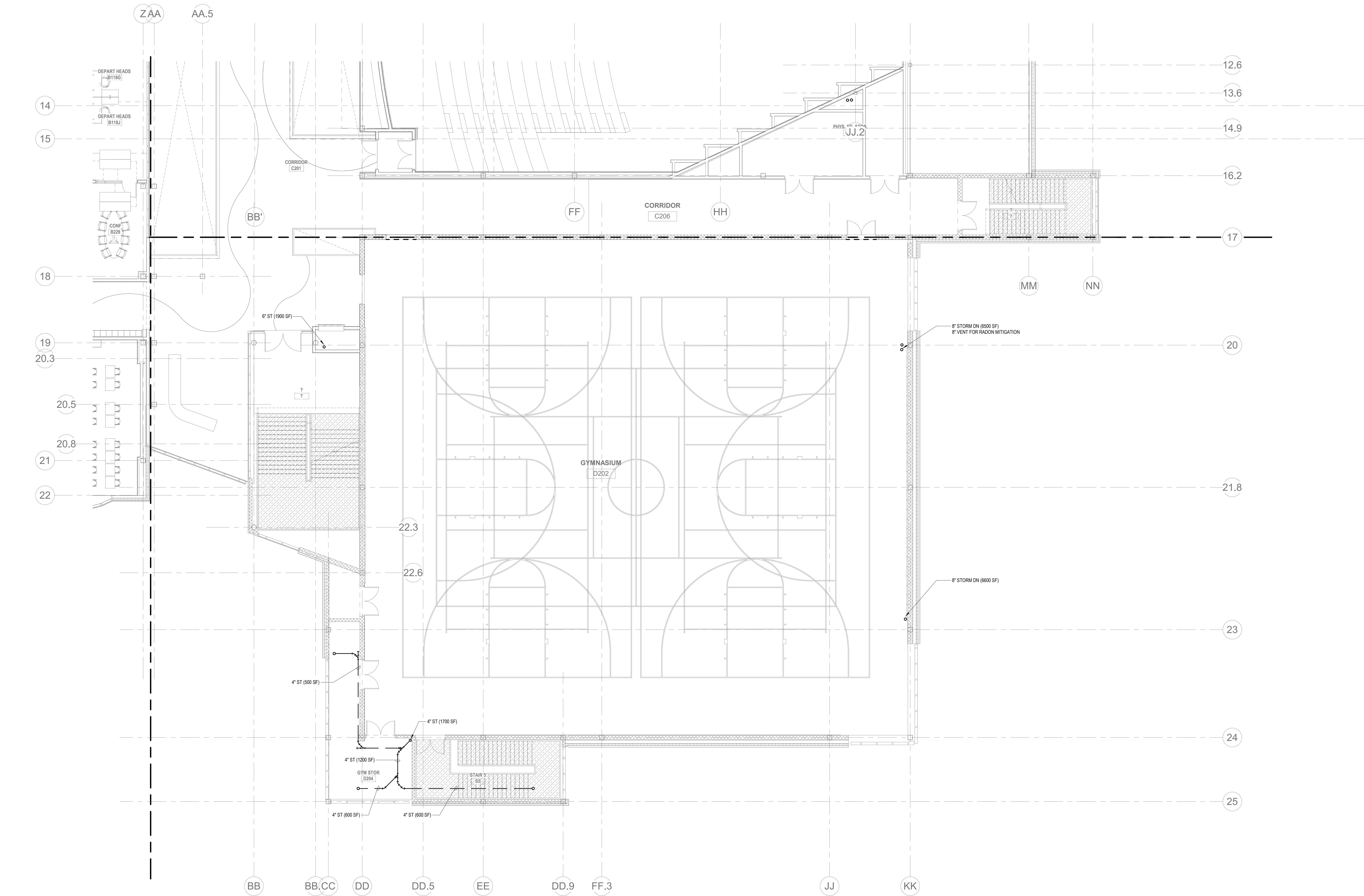
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MAGNETIC NORTH



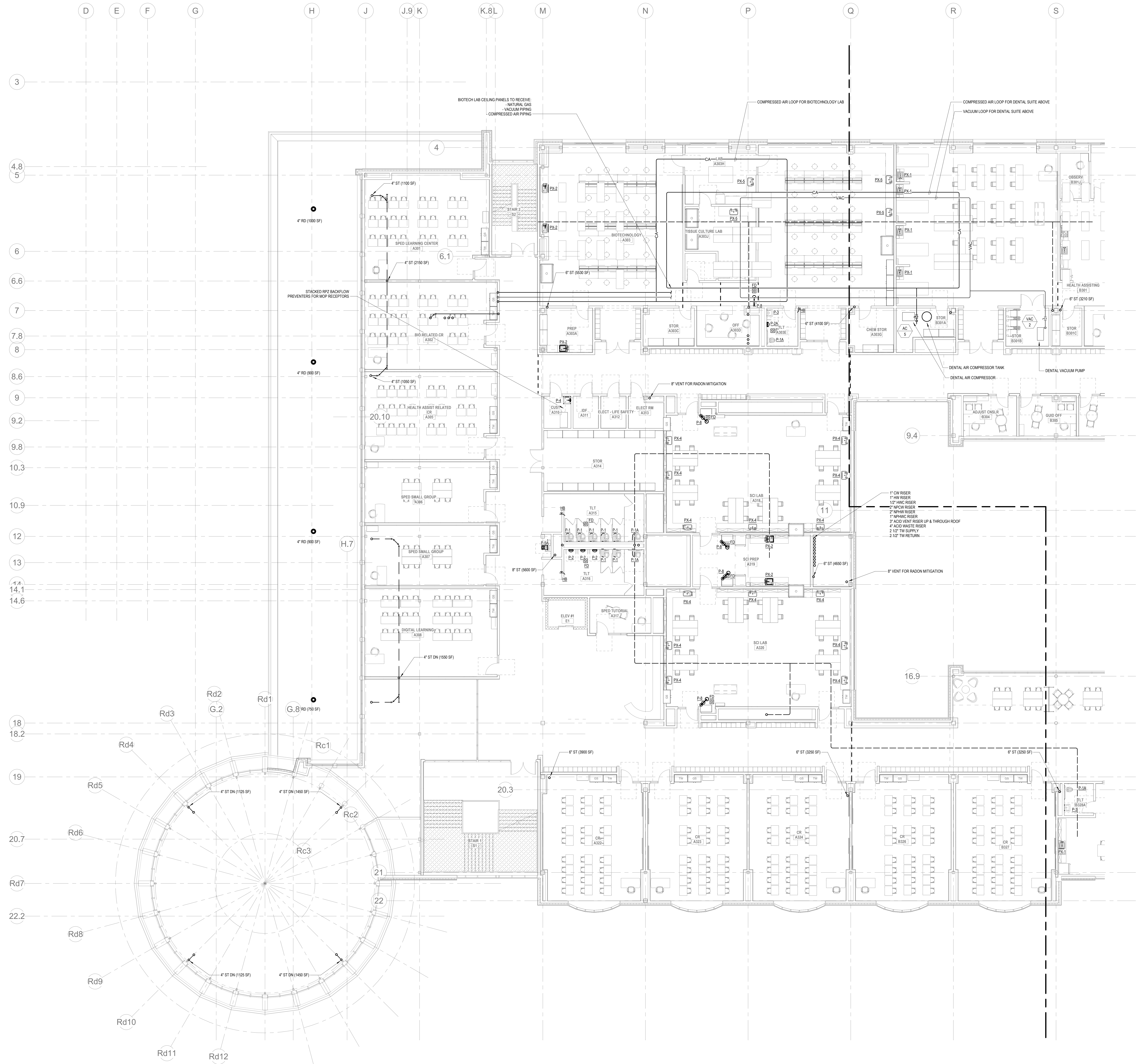
**PLUMBING
SECOND FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-2D



PLUMBING Level 2 Area D
1/8\"/>



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A B C D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

PLUMBING
THIRD FLOOR
PLAN - AREA A

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-3A

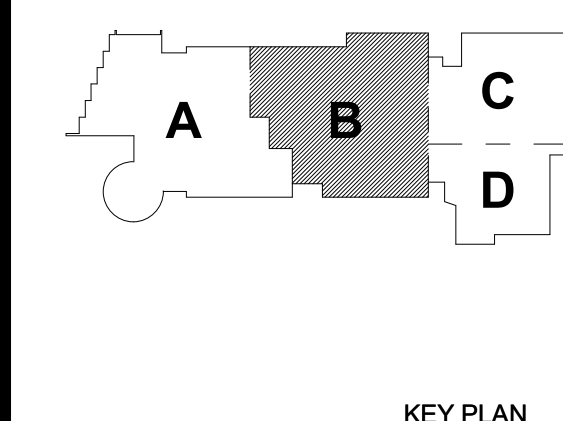
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**PLUMBING
THIRD FLOOR
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DR
Date: August 4th, 2021

P1-1-3B

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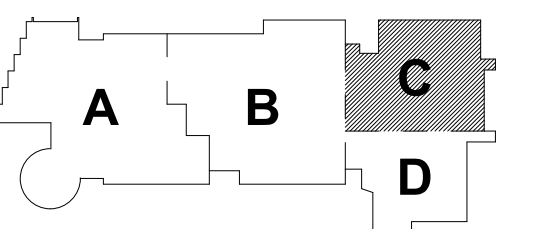
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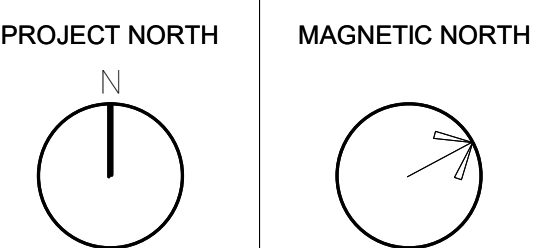
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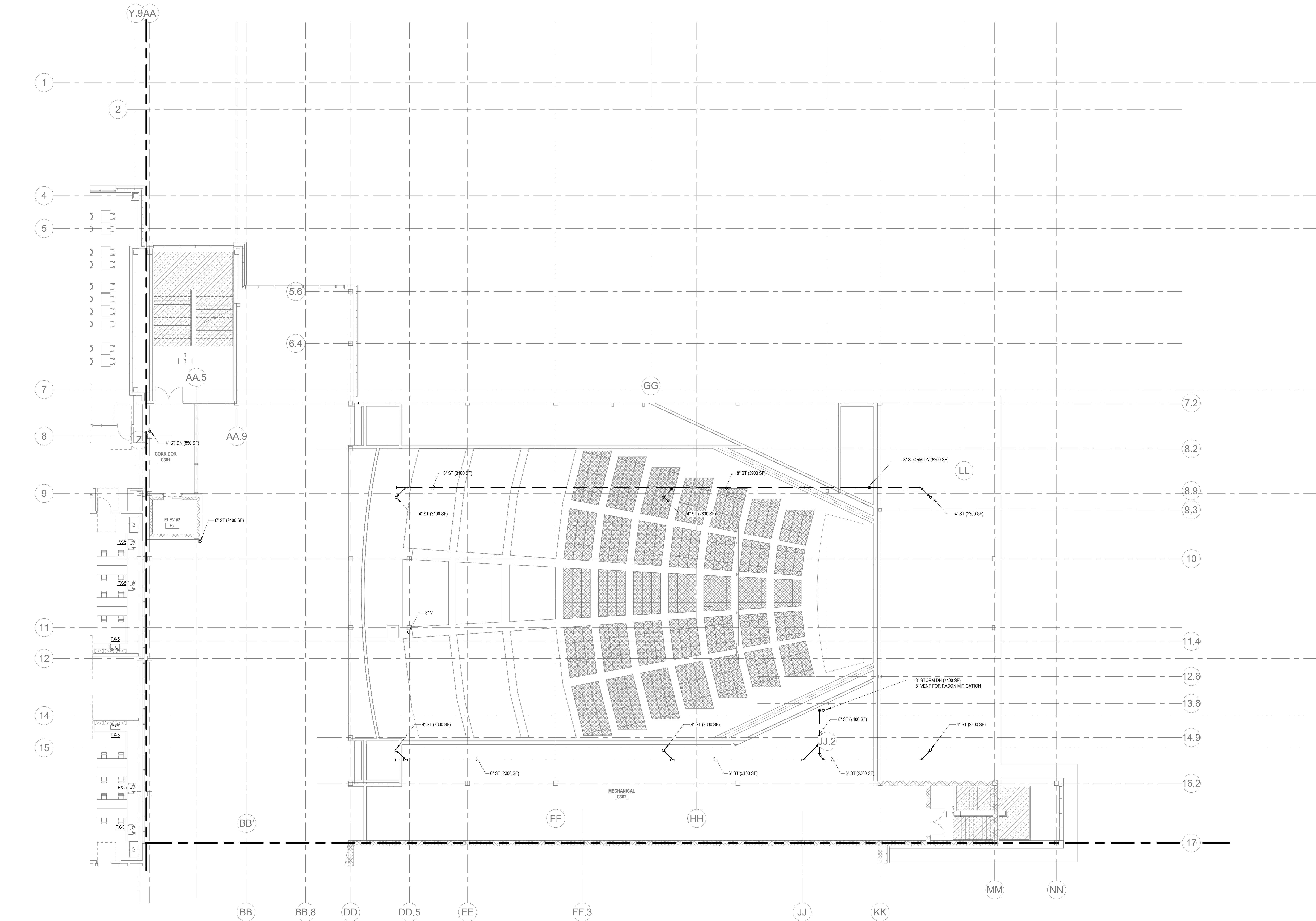
KEY PLAN



PLUMBING
THIRD FLOOR
PLAN - AREA C

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-3C



PLUMBING Level 3 Area C
P1-1-3C 1/8" = 1'-0"

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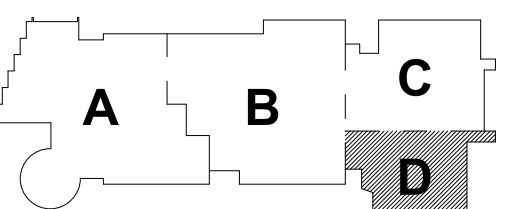
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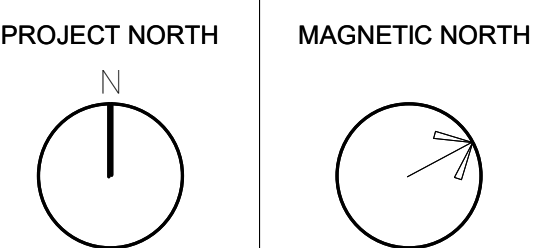
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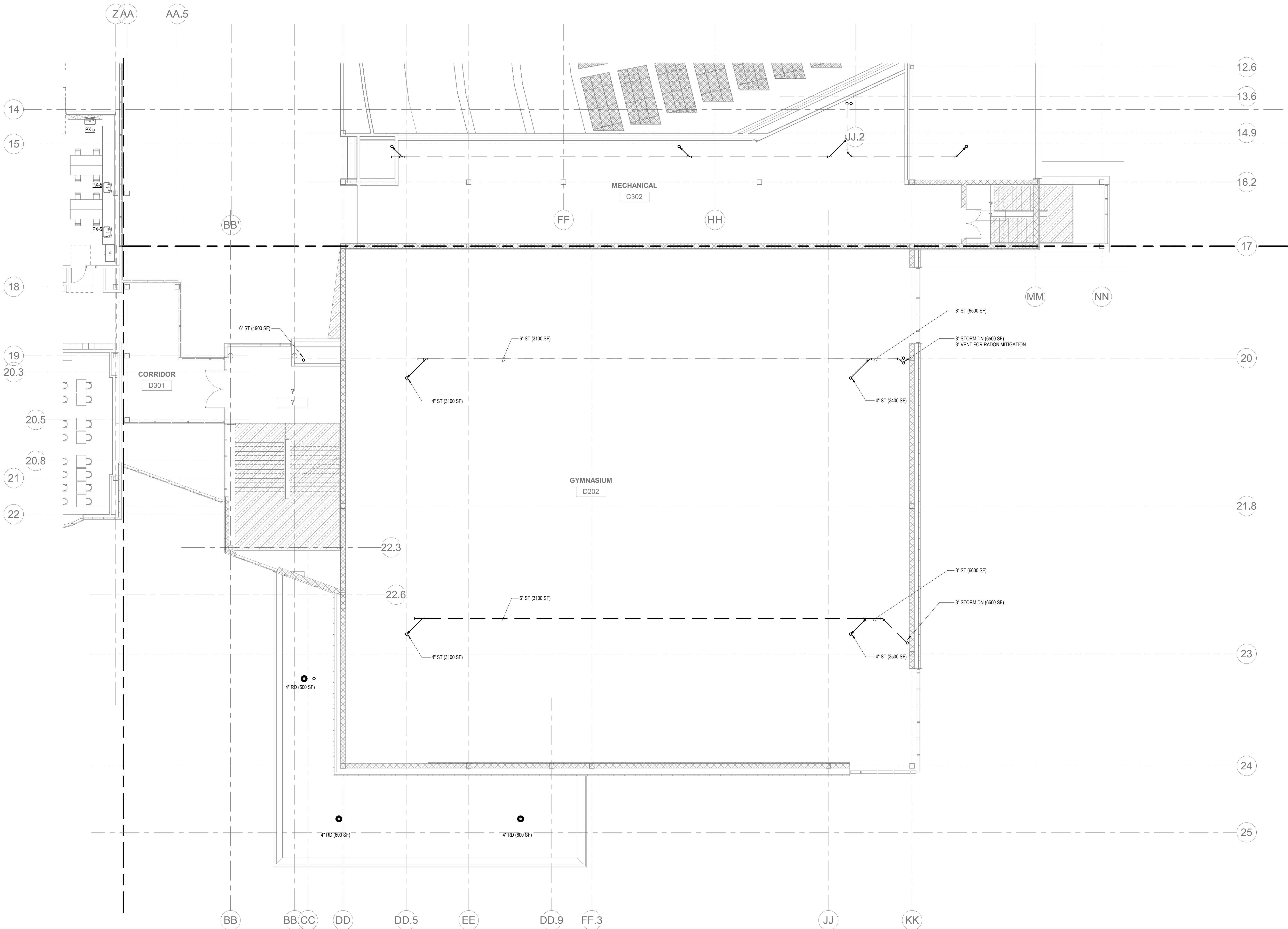
KEY PLAN



**PLUMBING
THIRD FLOOR
PLAN - AREA D**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-3D



PLUMBING Level 3 Area D
P1-1-3D 1/8" = 1'-0"

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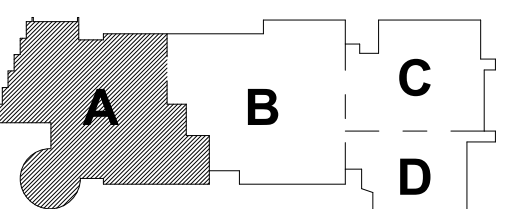
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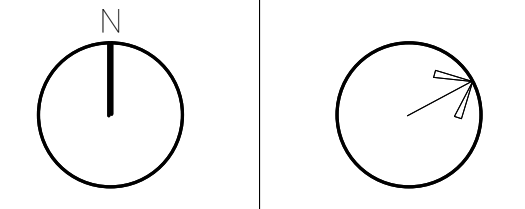
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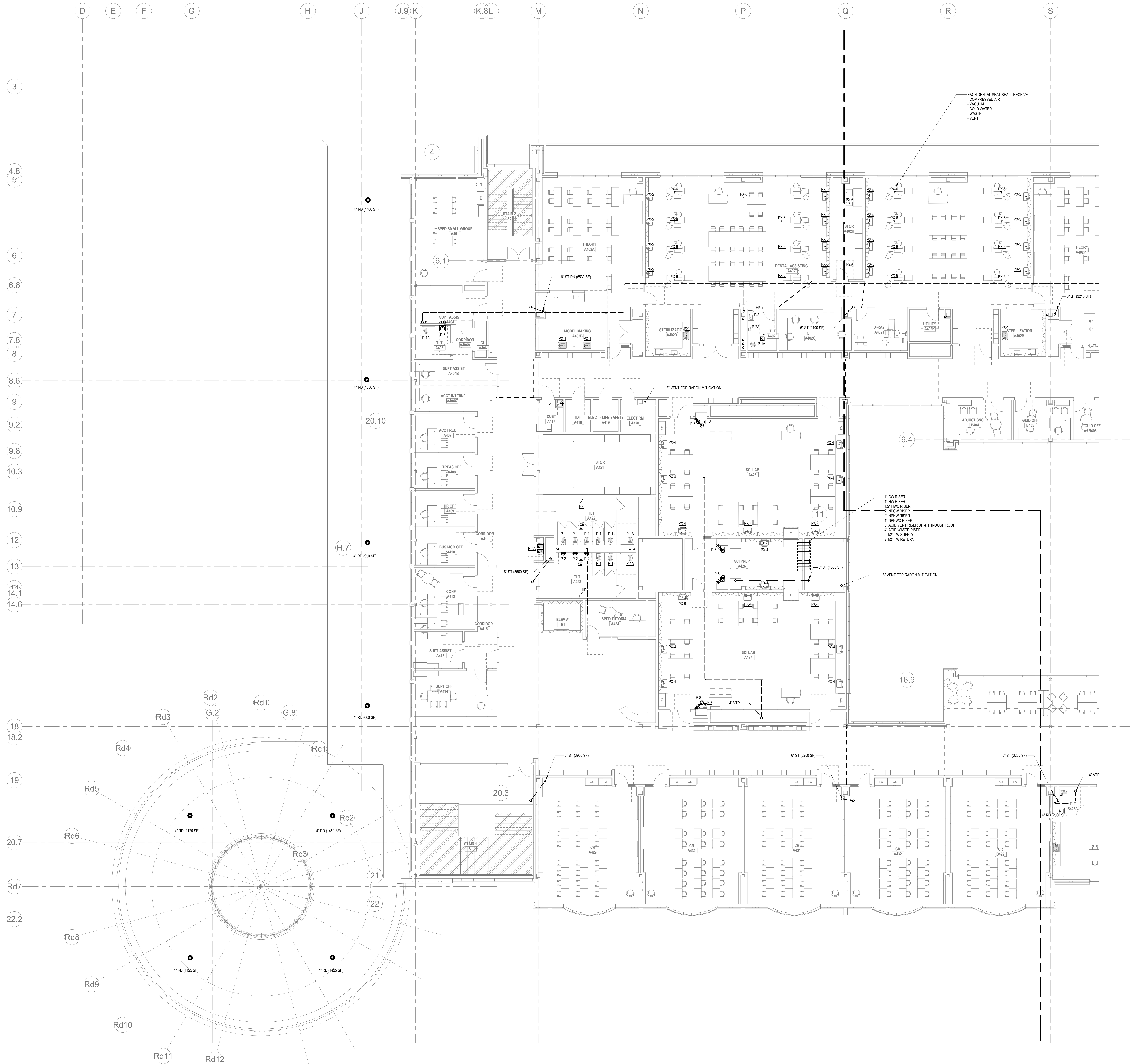
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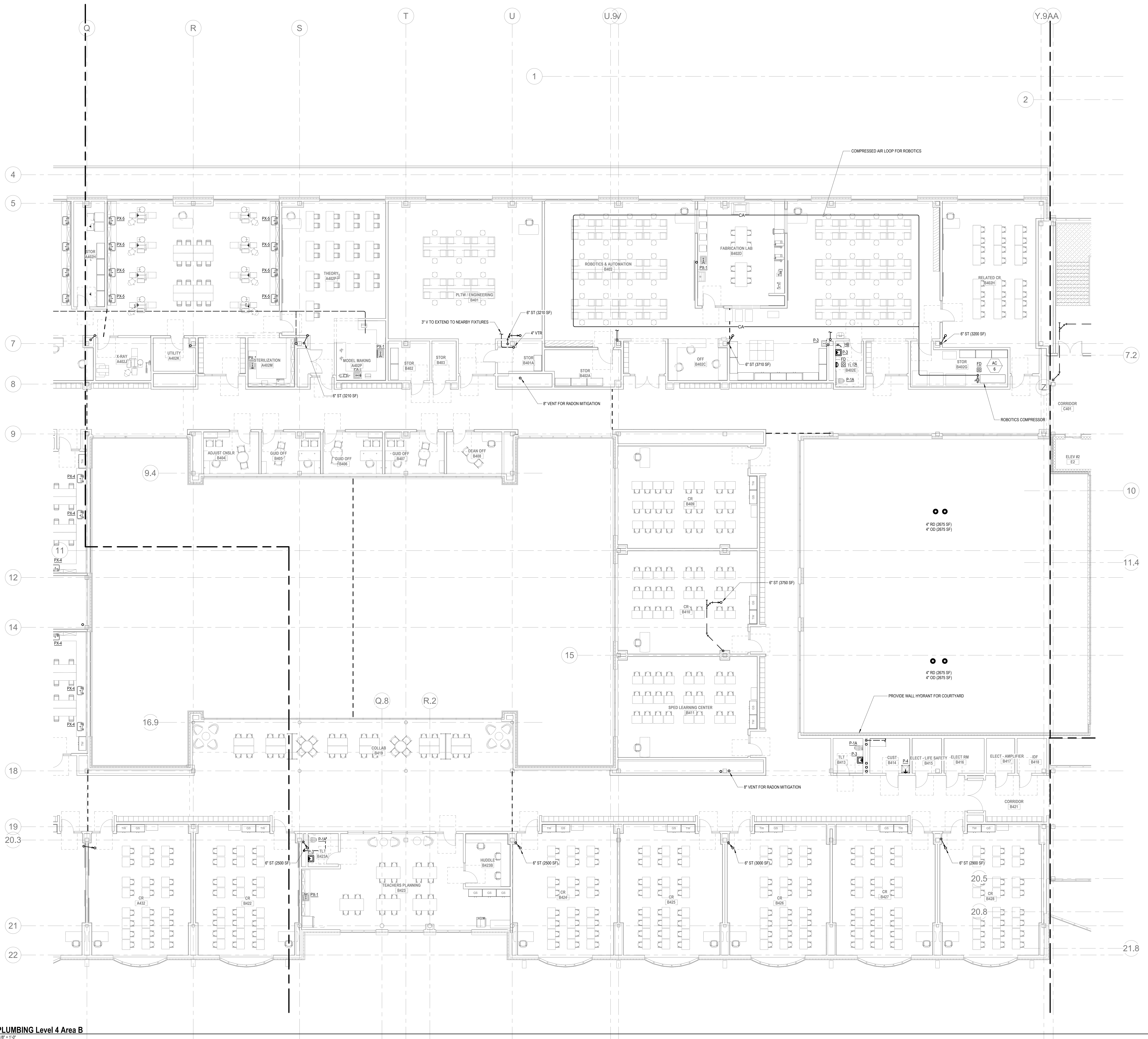
PLUMBING
FOURTH FLOOR
PLAN - AREA A

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-1-4A



PLUMBING Level 4 Area A



KEY NOTES:
1. PROVIDE AN ALLOWANCE FOR (12) COMPRESSED AIR DROPS WITHIN ROBOTICS LAB. EACH COMPRESSED AIR DROP SHALL INCLUDE A SHUTOFF VALVE, AIR FILTER, PRESSURE GAUGE, AND AIR PRESSURE REGULATOR. PROVIDE 90 FOOT HOSE REEL FOR EACH DROP.

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KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

1

2

3

4

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22

**PLUMBING
FOURTH FLOOR
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 20022
Drawn By: DRA
Date: August 4th, 2022

P1-1-4B

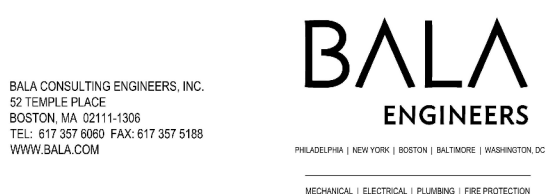


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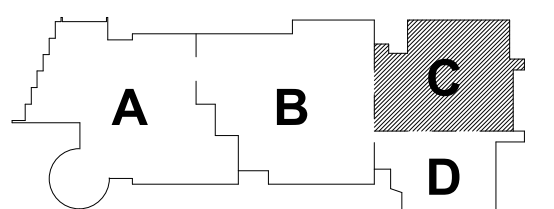
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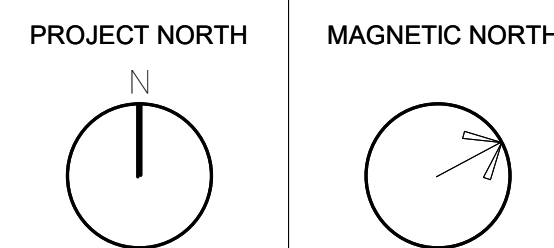
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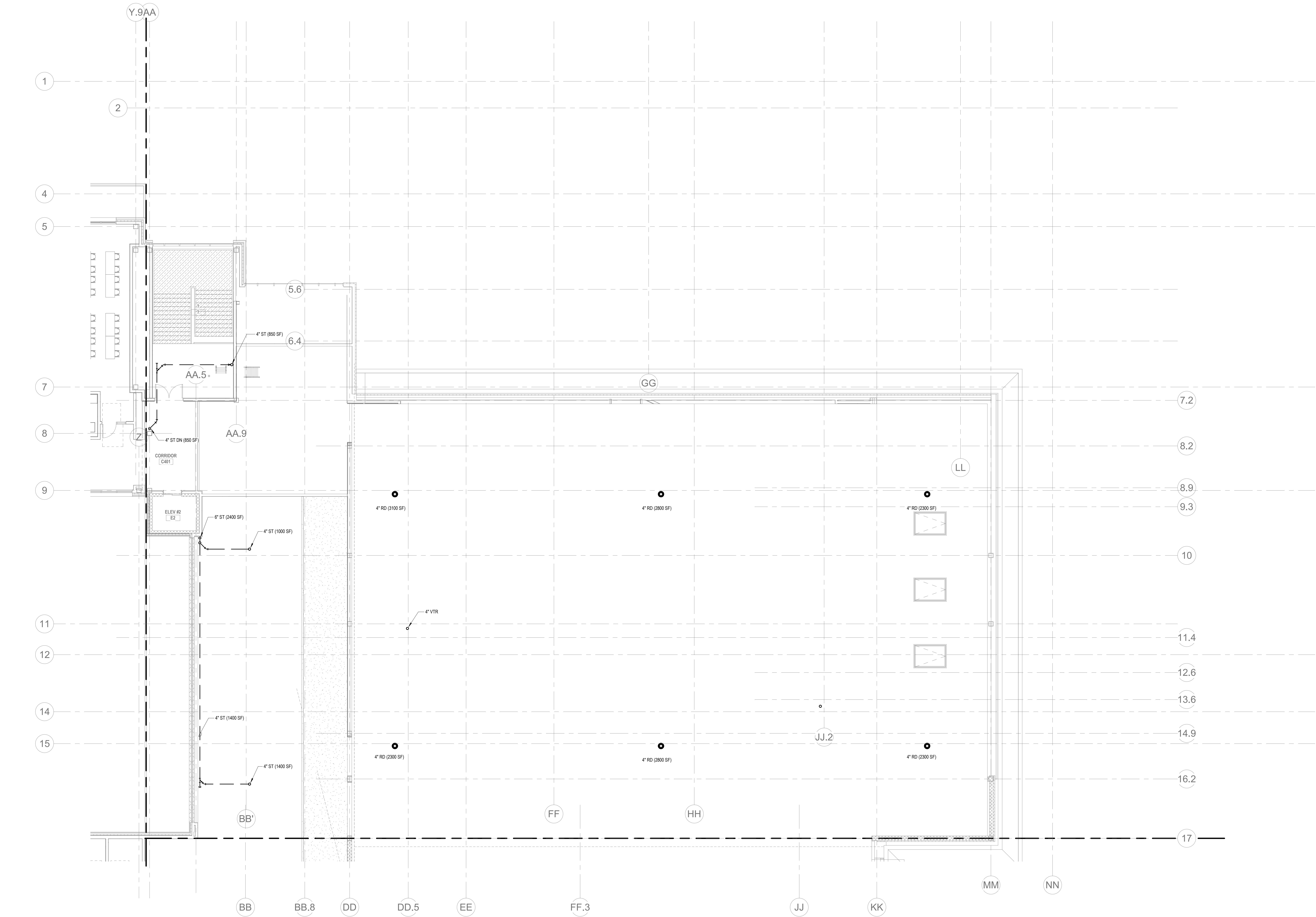


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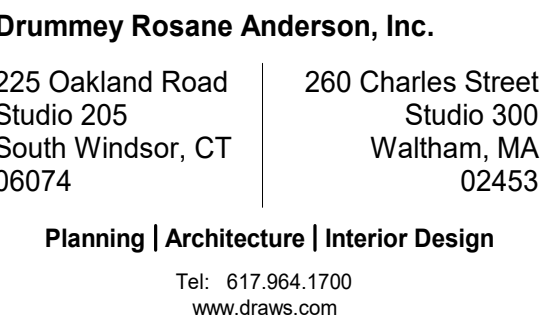


**PLUMBING
FOURTH FLOOR
PLAN - AREA C**

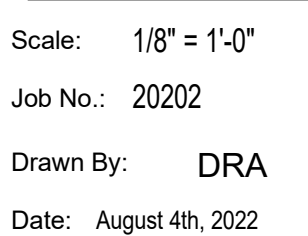
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Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
P1-1-4C



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



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P1-1-4D



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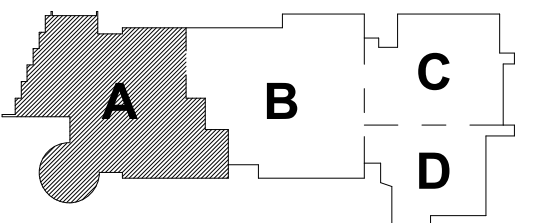
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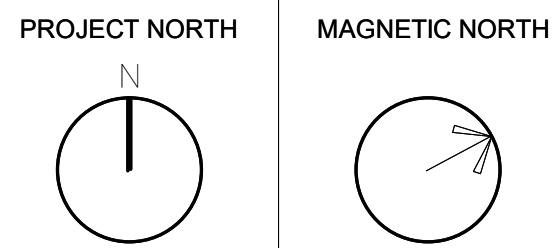
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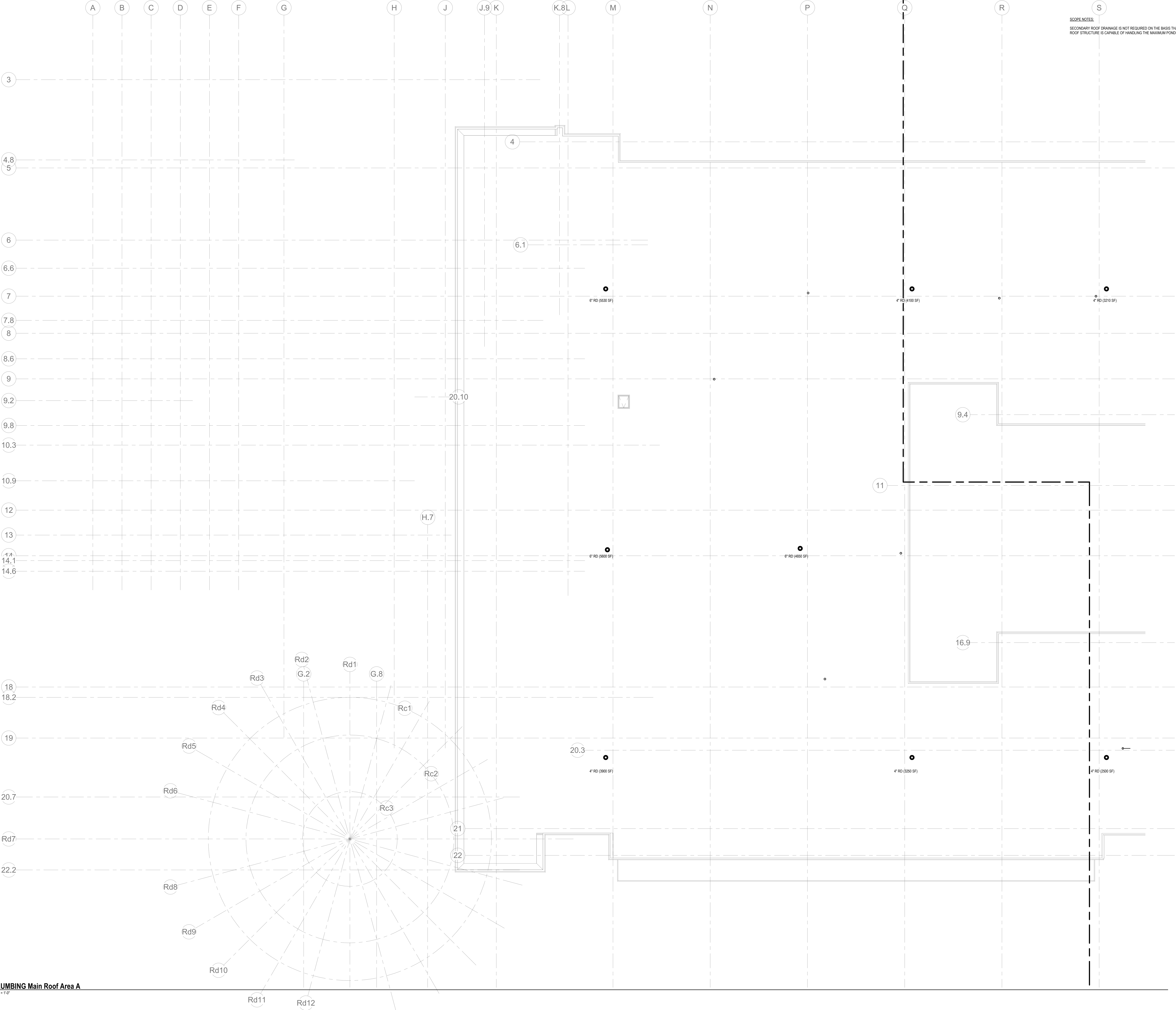
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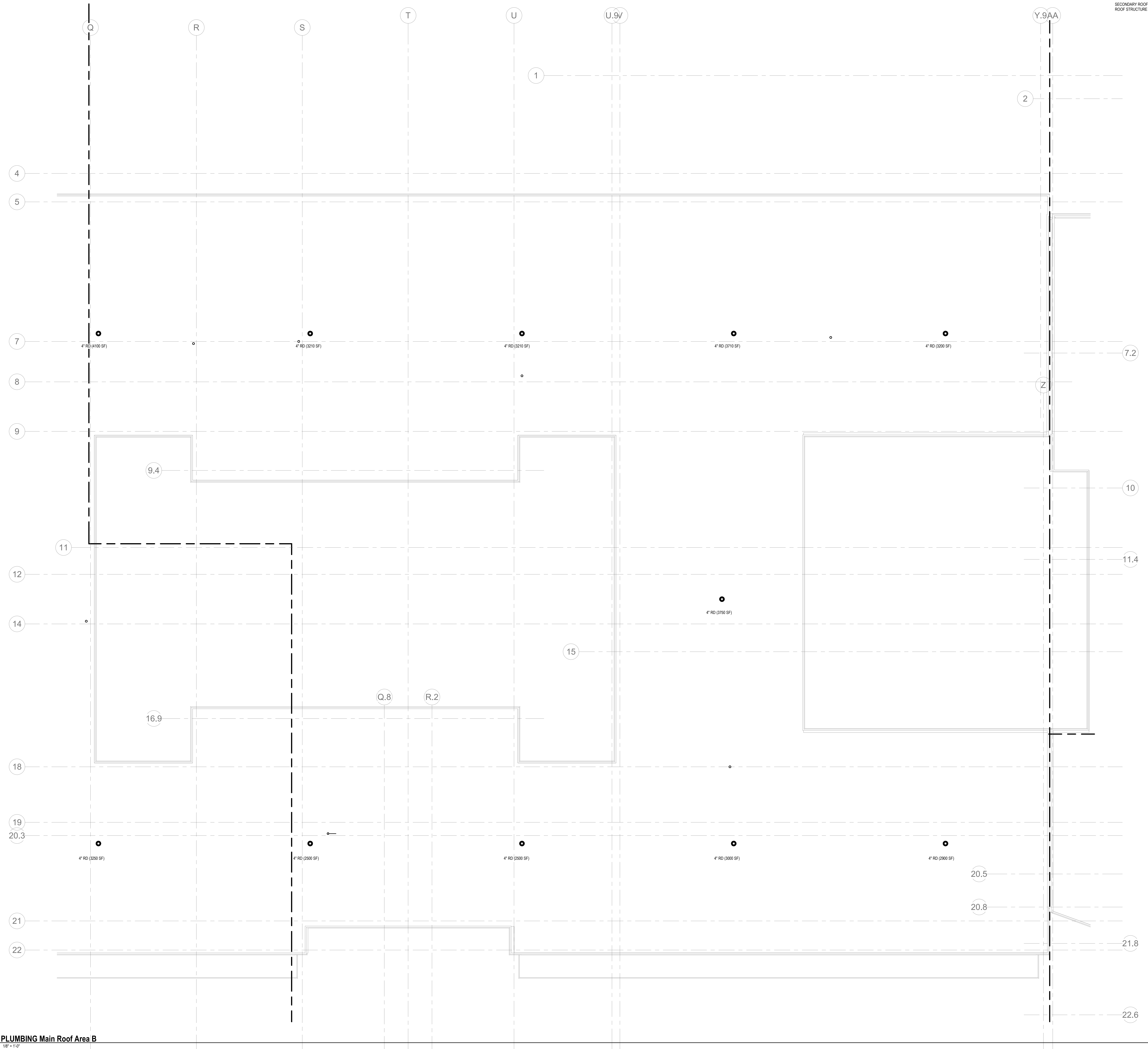


PLUMBING ROOF
PLAN - AREA A

Scale: 1/8" = 1'-0"
Job No.: 2002
Drawn By: DRA
Date: August 4th, 2022
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.





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

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



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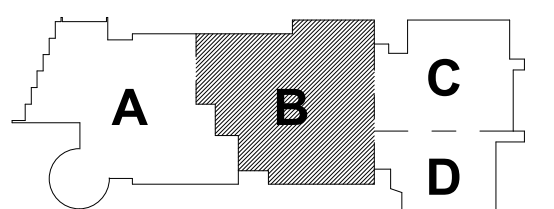
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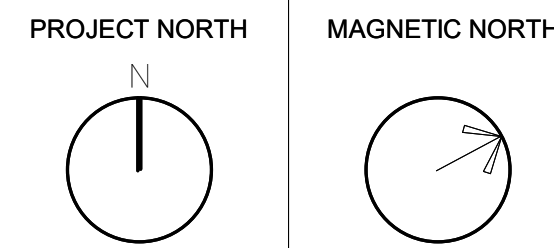
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KEY PLAN



**PLUMBING ROOF
PLAN - AREA B**

Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

P1-2-1B

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

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PLUMBING ROOF
PLAN - AREA C

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

Job No.: 2002

Drawn By: DRA

Date: August 4th, 2022

P1-2-1C

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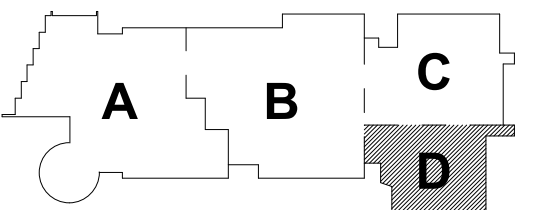
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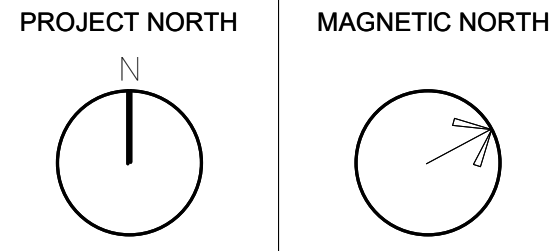
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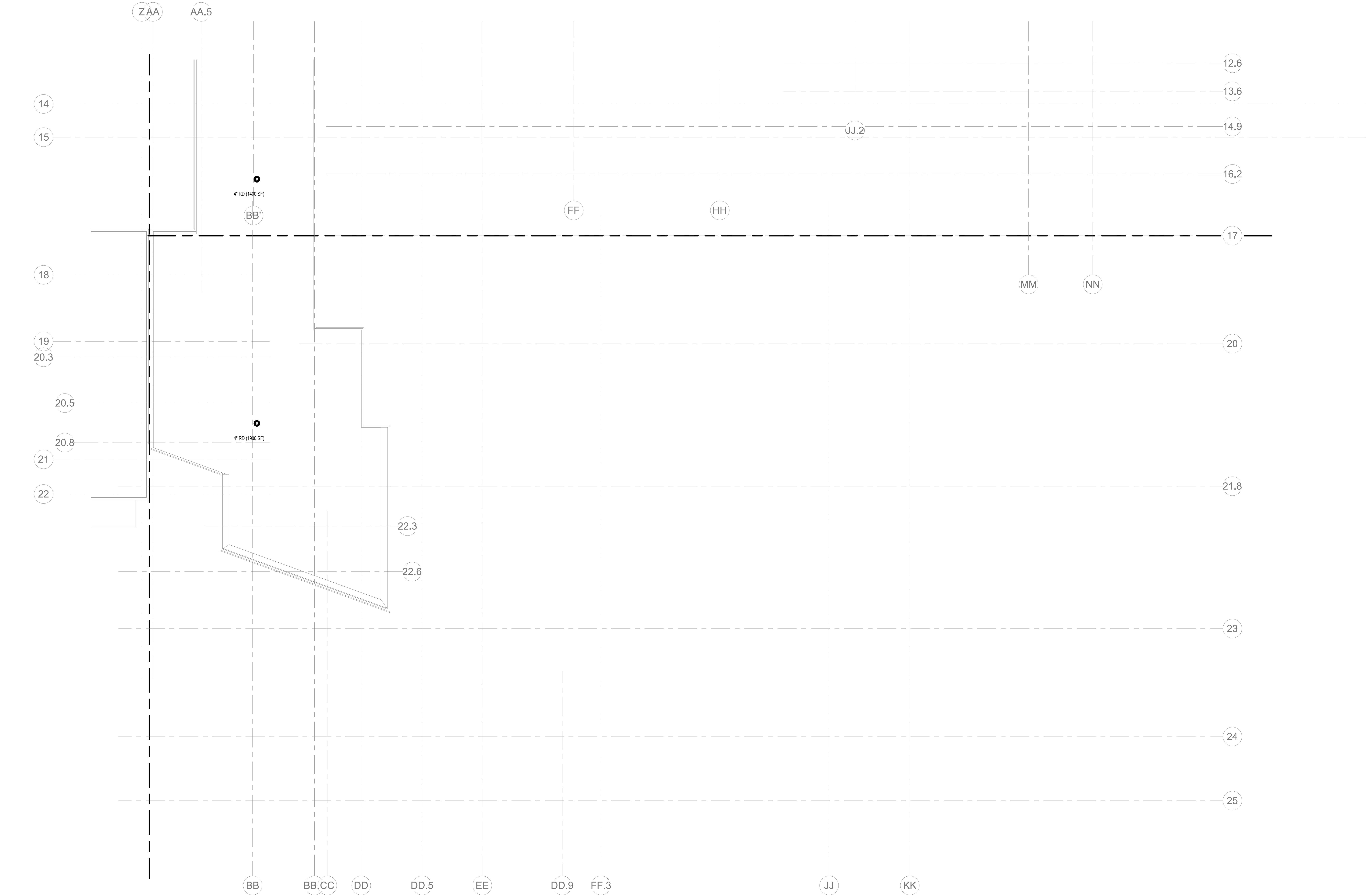


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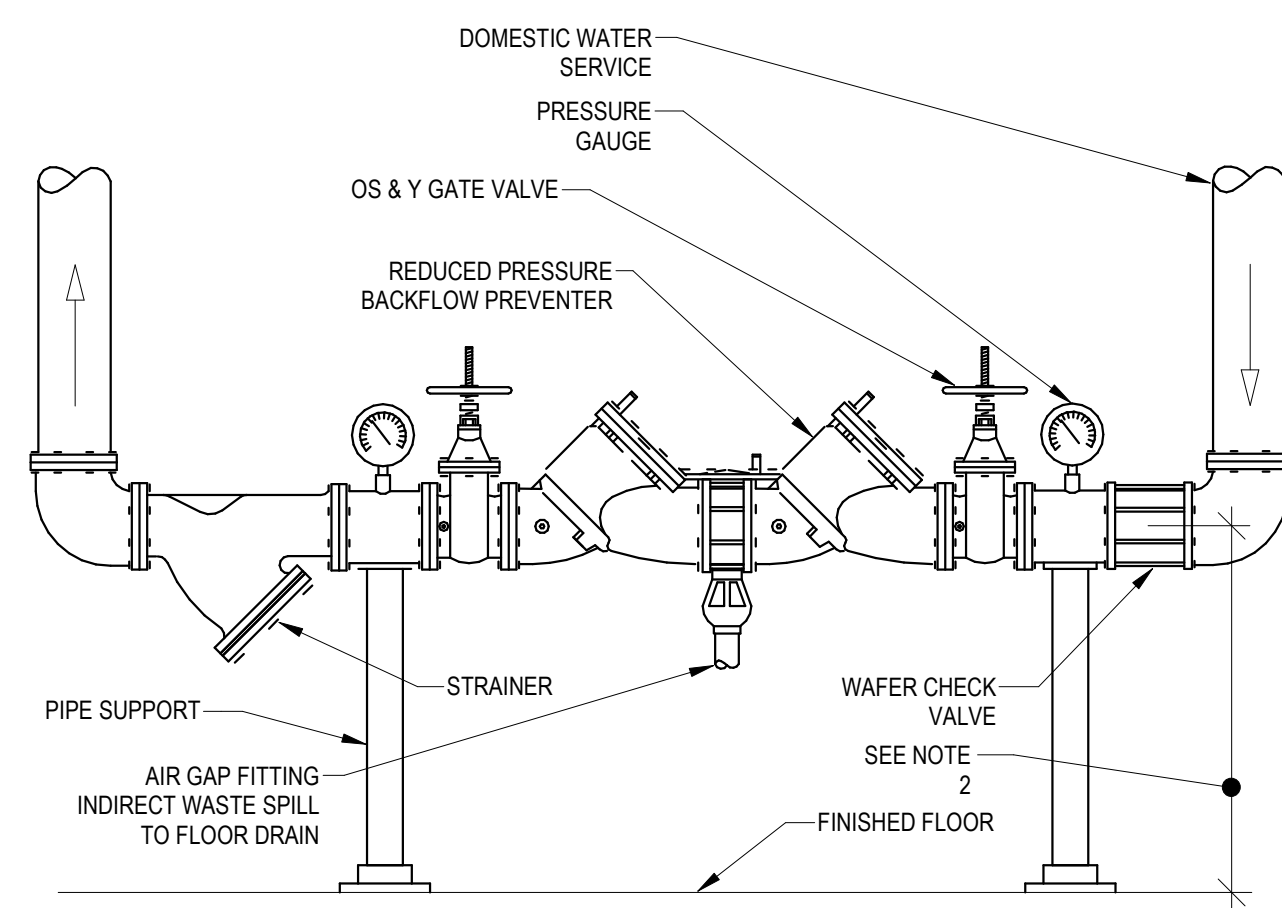
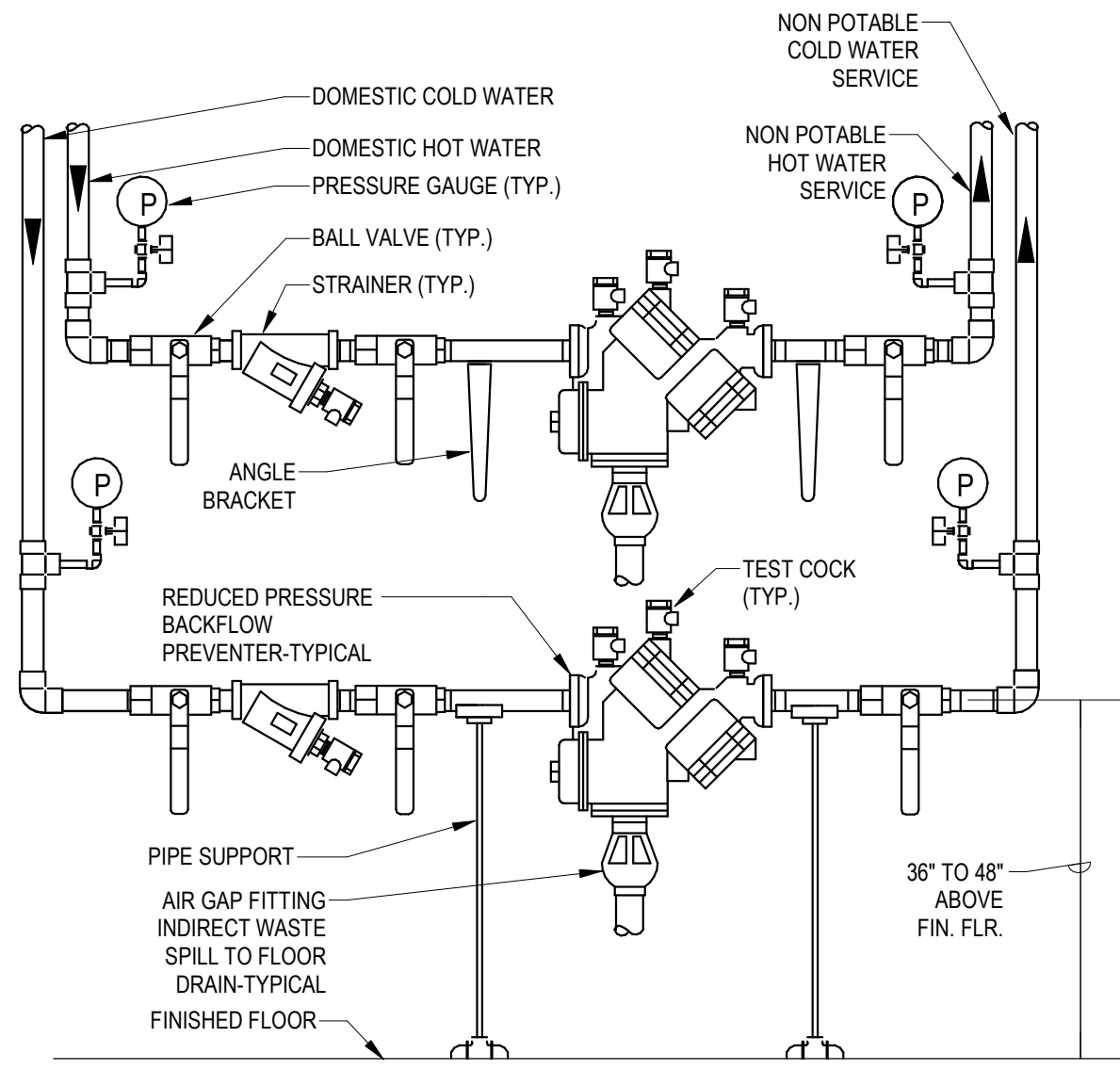
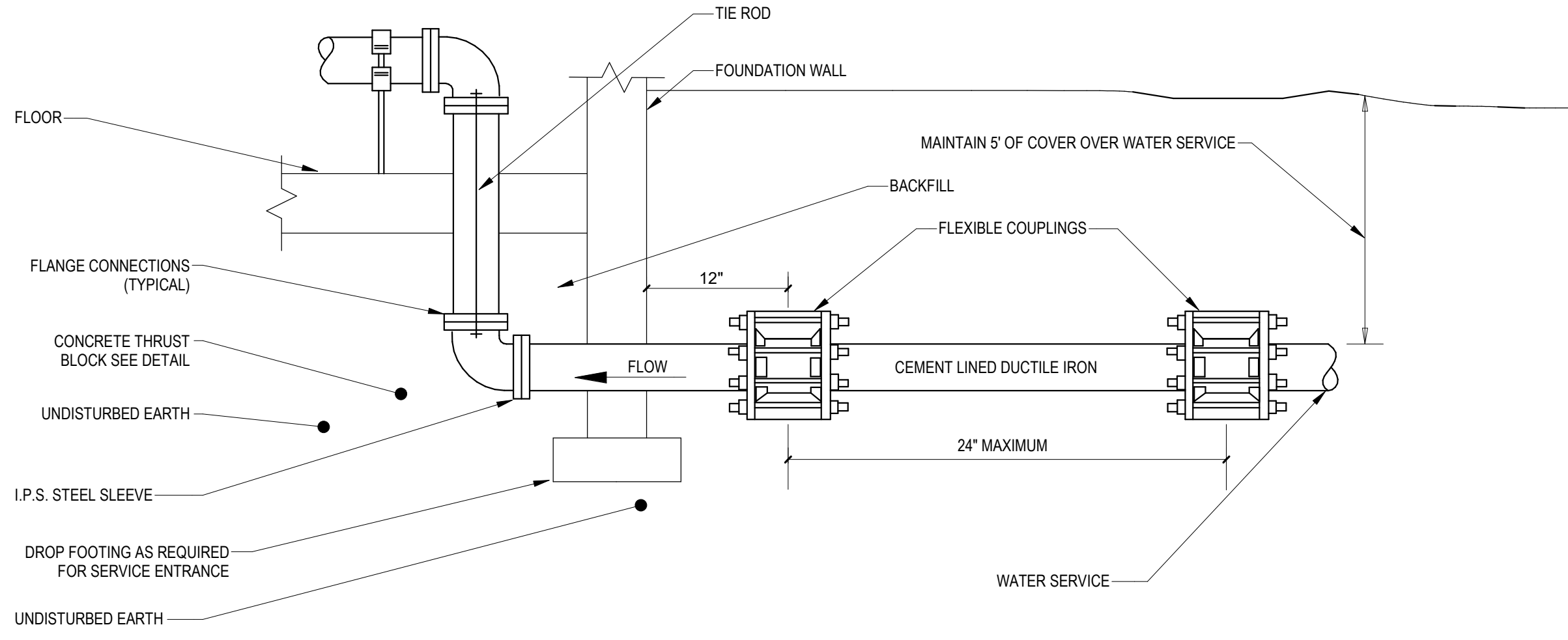


PLUMBING ROOF
PLAN - AREA D

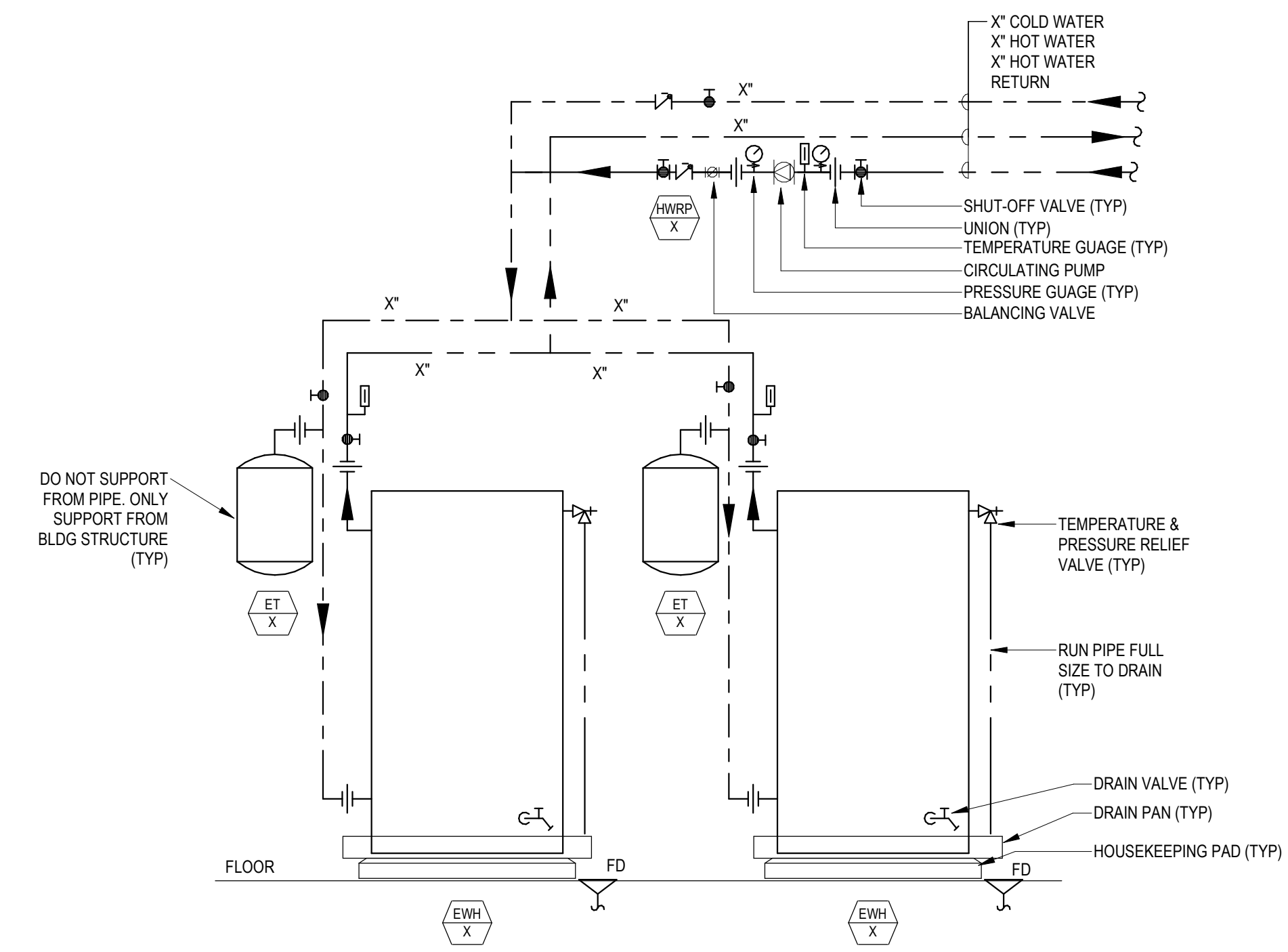
Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022
P1-2-1D



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



- NOTES:
1. SUPPORT PIPING AND FITTINGS AS REQUIRED TO CONFORM TO MANUFACTURER'S REQUIREMENTS
 2. INSTALL RPBP 3" TO 4" AFF WITH CLEAR SPACE OF 3" IN FRONT, 1" AT EACH END AND 1" FROM WALL (MINIMUM)

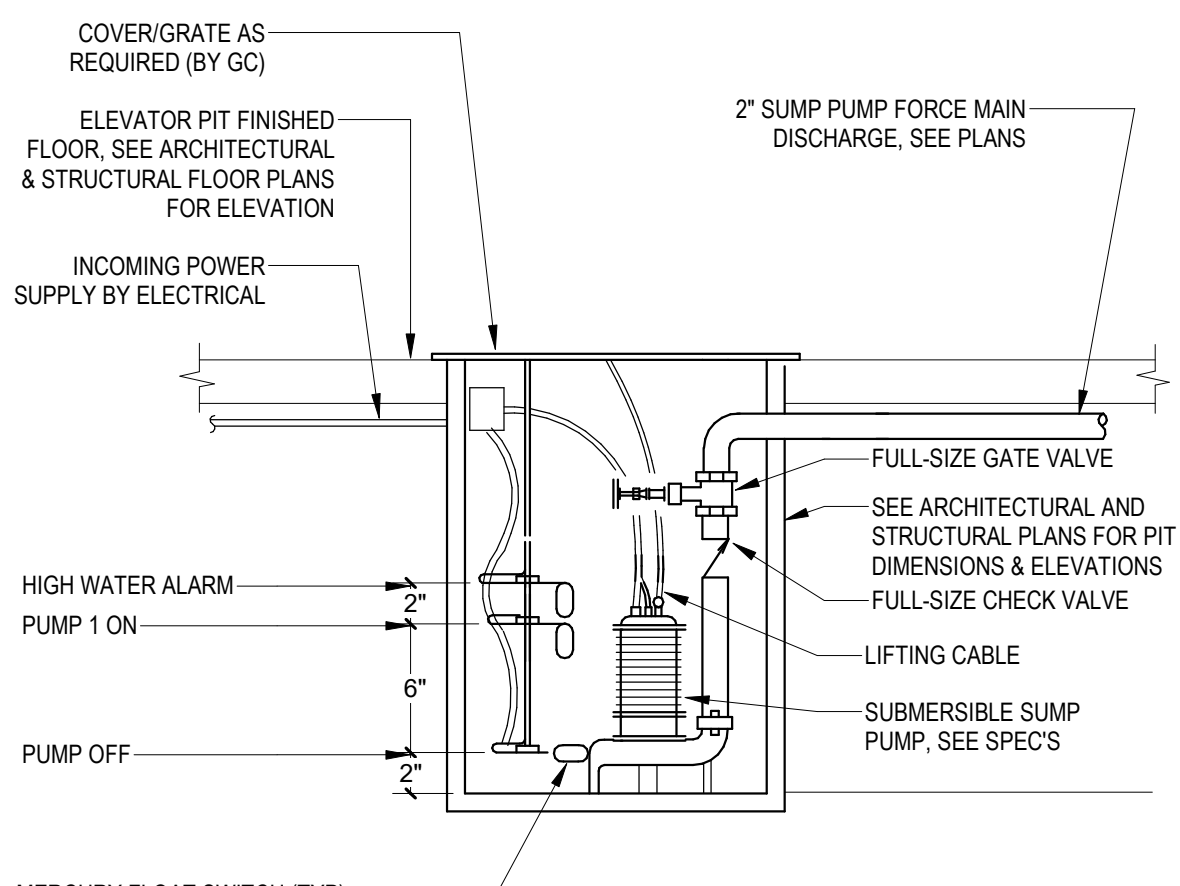
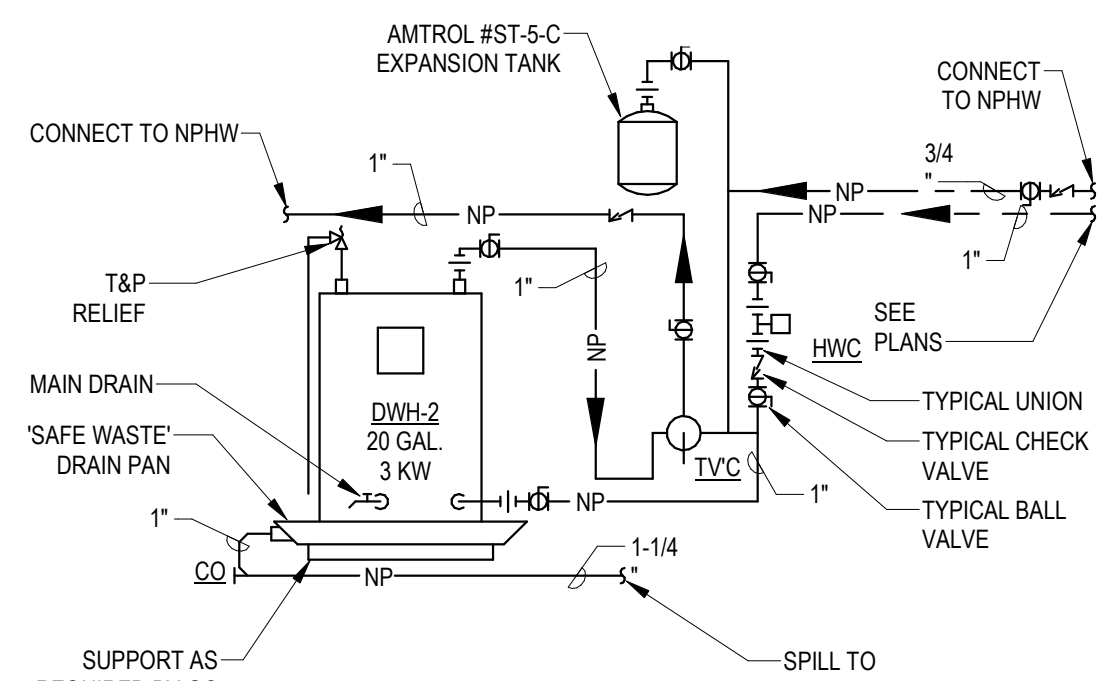
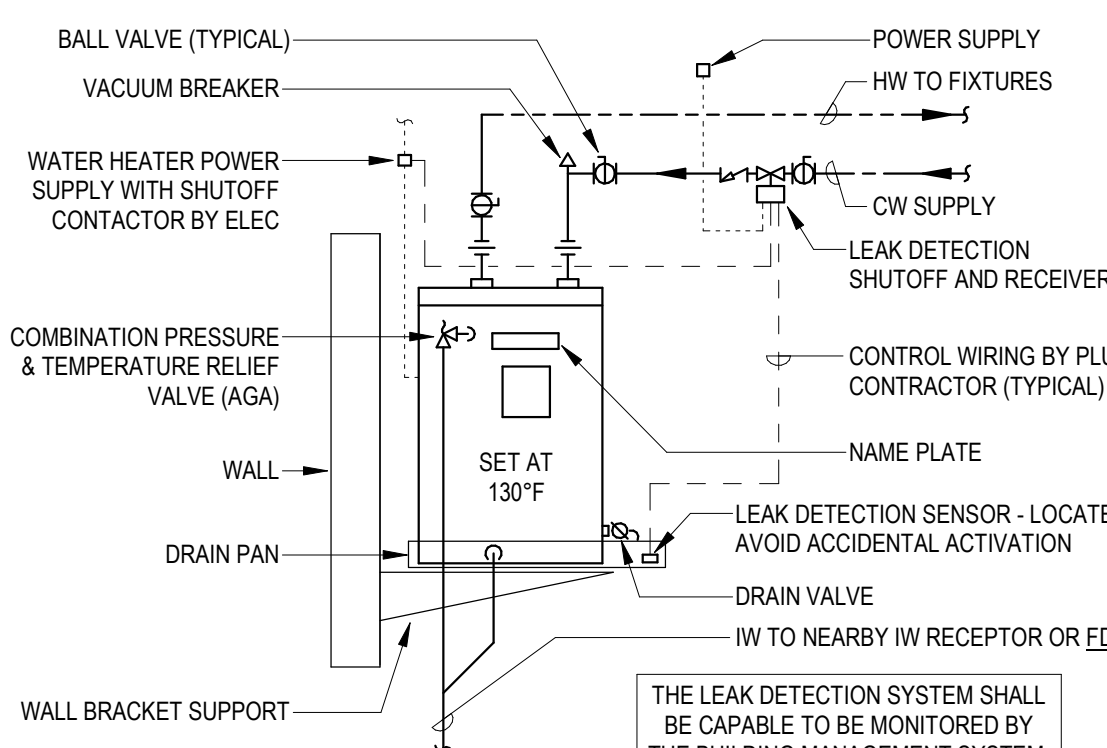
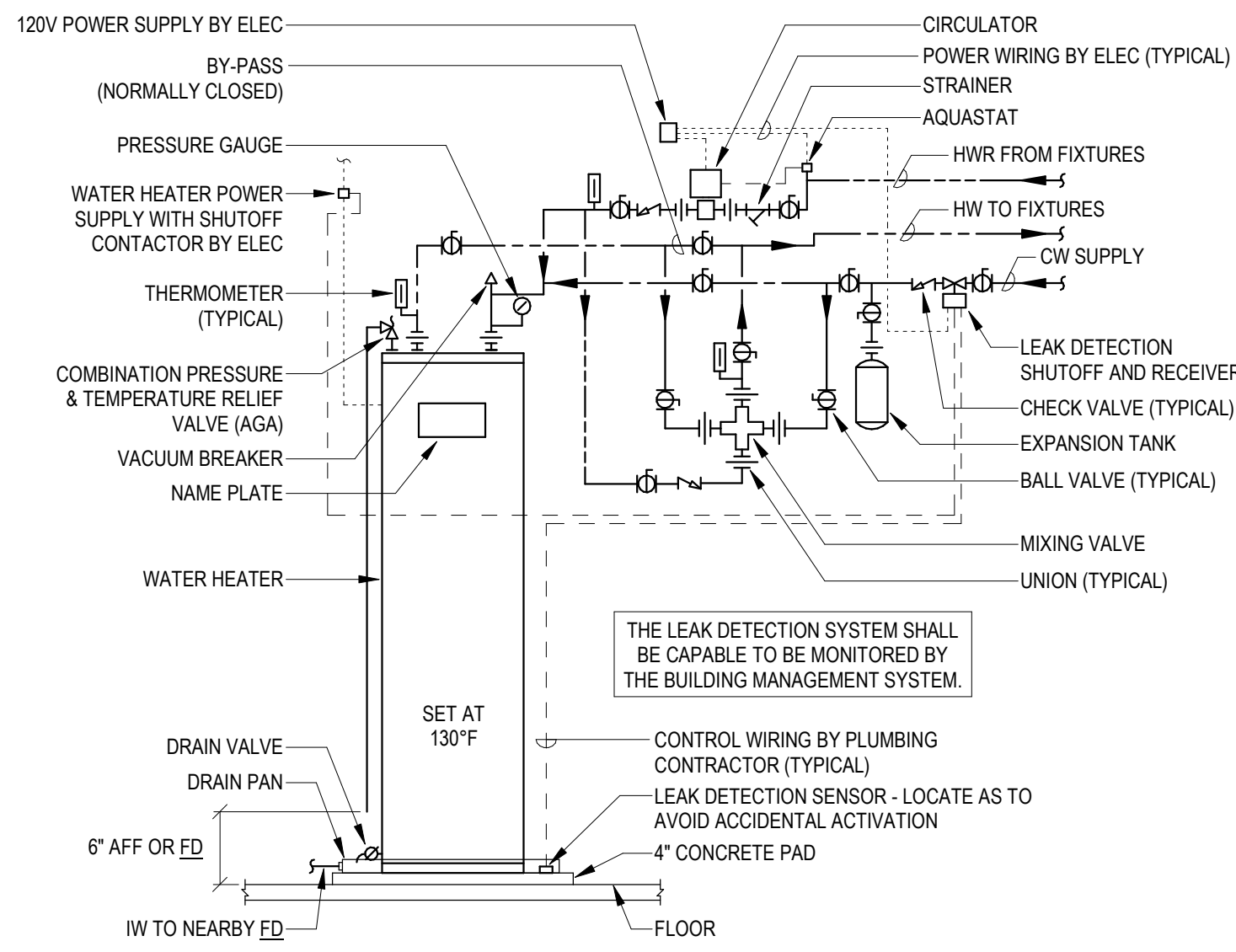


1 WATER SERVICE ENTRANCE (THRU FLOOR)
P3-0-1 N.T.S.

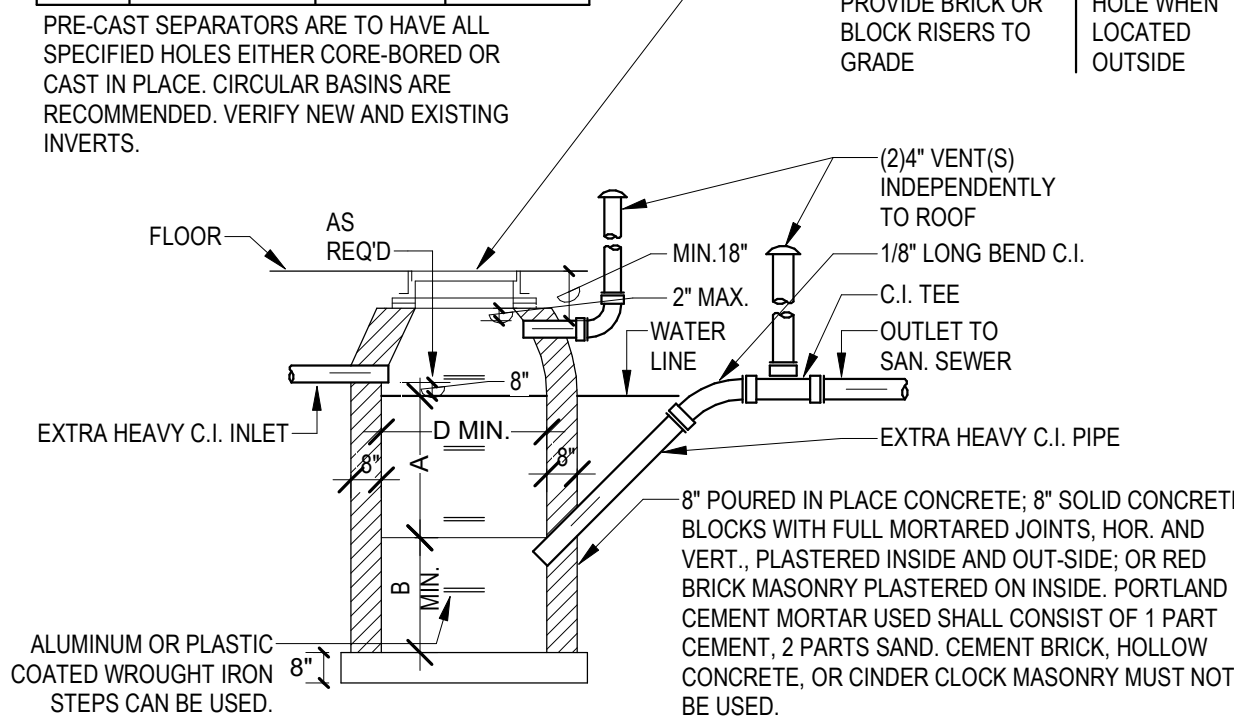
2 STACKED REDUCED PRESSURE BACKFLOW PREVENTERS
P3-0-1 N.T.S.

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"



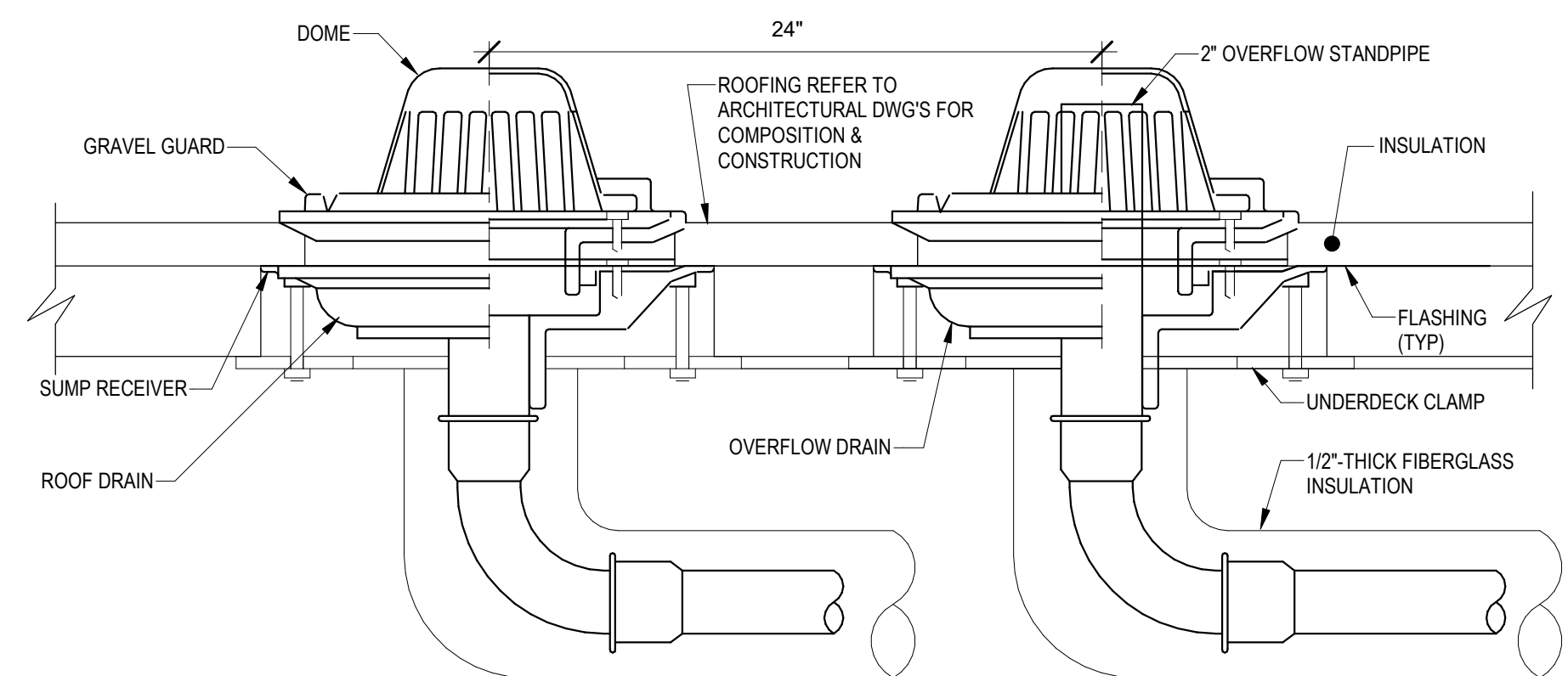
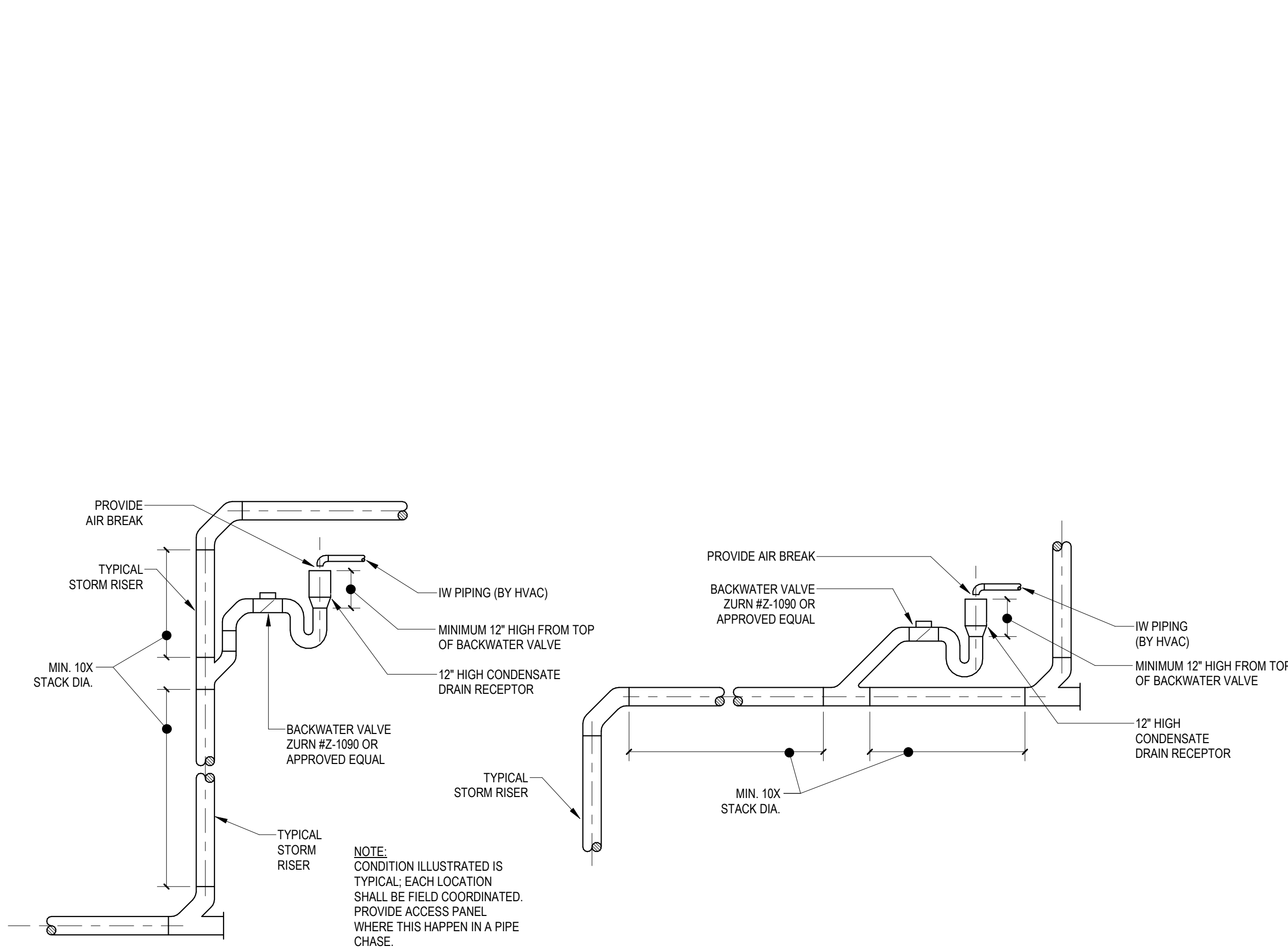
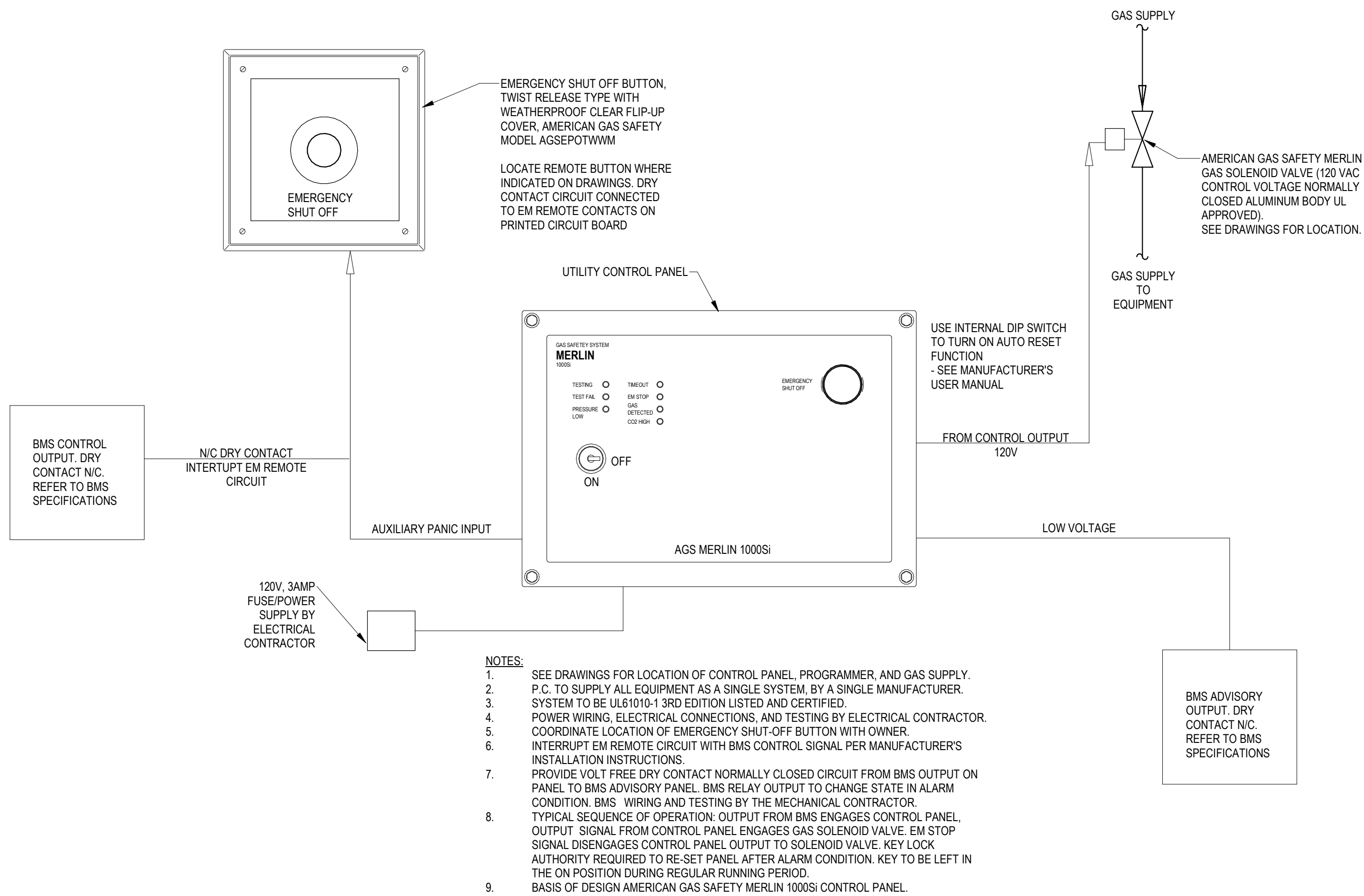
5 ELECTRIC WATER HEATER - FLOOR MOUNTED (W/ CIRCULATION)
P3-0-1 N.T.S.

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.

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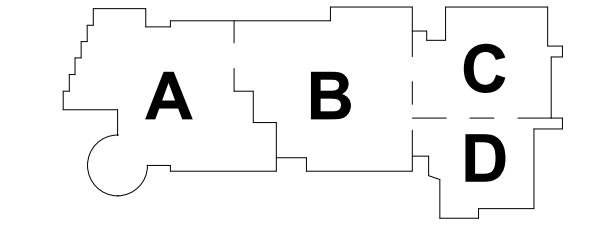
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MSBA DESIGN
DEVELOPMENT
SUBMISSION

August 4th, 2022



PROJECT NORTH
MAGNETIC NORTH

PLUMBING
DETAILS SHEET

Scale: As indicated
Job No.: 6520409
Drawn By: DRA
Date: August 4th, 2022
P3-0-1

DRA

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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-4	MOP SINK	STERN WILLIAMS	CHICAGO		
P-5	DRINKING FOUNTAIN	HALSEY TAYLOR	NA		120V POWER CONNECTION REQUIRED
P-6	SHOWER	SYMMONS	SYMMONS VALVE		1.5 GPM SHOWERHEAD
P-7	EYEWASH STATION	GUARDIAN			PROVIDE LOCAL MIXING VALVE TO TEMPER WATER
P-8	EMERGENCY EYEWASH/SHOWER STATION	GUARDIAN		RECESSED IN WALL	FED FROM TEMPERED WATER SYSTEM
PX-1	CASEWORK SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		
PX-2	CASEWORK SINK WITH EYEWASH	FURNISHED BY OTHERS	FURNISHED BY OTHERS		
PX-3	COSMETOLOGY SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		
PX-4	SCIENCE ROOM SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE HAIR TRAP
PX-5	LAB SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE ACID WASTE & VENT PIPING, NON POTABLE WATER
PX-6	DENTAL STATION	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE COMPRESSED AIR, VACUUM, WATER, WASTE, AND VENT

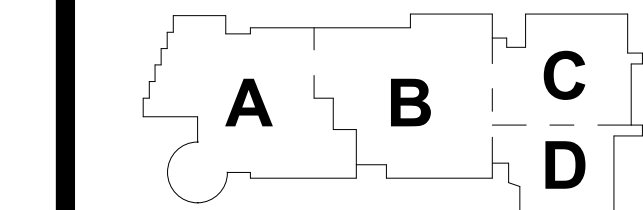
PLUMBING FIXTURE CONNECTION SCHEDULE						
FIXT. DESIG.	FIXTURE	SW	V	CW	HW	REMARKS
P-1	WATER CLOSET	4"	3"	1"	-	
P-1A	WATER CLOSET	4"	3"	1"	-	ACCESSIBLE
P-2	URINAL	3"	2"	3/4"	-	
P-2A	URINAL	3"	2"	3/4"	-	ACCESSIBLE
P-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P-4	MOP RECEPTOR	3"	2"	1/2"	1/2"	
P-6	SHOWER	3"	2"	1/2"	1/2"	
P-7	EMERGENCY EYEWASH	-	-	1/2"	1/2"	TEMPERED WATER CONNECTION
P-8	EMERGENCY SHOWER/EYEWASH	-	-	1 1/4"	-	TEMPERED WATER CONNECTION
PX-1	CASEWORK SINK	1 1/2"	1 1/2"	1/2"	1/2"	
PX-2	CASEWORK SINK W/ EYEWASH	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE EYEWASH STATION WITH SINK
PX-3	COSMETOLOGY SINK	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE HAIR TRAP
PX-4	SCIENCE ROOM SINKS	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE ACID WASTE AND VENT, AND NON POTABLE CW & HW
PX-5	LAB SINKS	1 1/2"	1 1/2"	1/2"	1/2"	
PX-6	DENTAL STATION	1 1/2"	1 1/2"	1/2"	-	PROVIDE COMPRESSED AIR AND VACUUM

KITCHEN EQUIPMENT PLUMBING FIXTURE SCHEDULE							
ITEM	QTY	DESCRIPTION	CW	HW	G	W	COMMENTS
A08b	1	COOLER EVAPORATOR COIL				1"	
A09a	1	FREEZER EVAPORATOR COIL				1"	
A09f	1	FREEZER EVAPORATOR COIL				1"	
A12	1	THREE-COMPARTMENT SINK	(2) 3/4"	2 (3/4)"		(3) 2"	120" F HW, WASTE MANIFOLD THRU G BY PC, PROVIDE RPZ'S FOR WATER LINES TO FIXTURE
A15	1	DIPPER	(2) 1/2"	1/2"		2"	
A16	1	HOSE REEL ASSEMBLY					
A17	1	WAREWASHER, DOOR-TYPE, VENTLESS	3/4" (55" F MIN) 1/2" (DRAIN TEMPERING)	1/2"		5/8" (TO HW)	
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 ON STAND	3/4"		3/4"	2" (TO FS)	G @ 160 MBTU
A31	1	DOUBLE CONVECTION OVEN			3/4"		G @ 100 MBTU
A32	1	CONVEYER OVEN 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"		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 & 943 MBTU (1,750 MBTU SYSTEM CAPACITY)
A40	2	FLOOR PAN & GRATE				3"	
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
B17	2	FILL FAUCET					
B18	1	HOT FOOD WELL ASSEMBLY, DROP IN				1/2" (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)	
B38	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
B49	1	WAREWASHER, RACK CONVEYER	1/2" (DRAIN TEMPERING)	1/2"		2" (TO FS)	
B51	1	HOSE REEL ASSEMBLY	1/2"	1/2"		2"	
B52	1	SOLID WARE TABLE WITH SOAP SINK & INTEGRAL PASS-THRU WINDOW FRAME	1/2"	1/2"			
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"			(1) 1/2", (1) 3/4" (TO FS)	
C04	1	FLOOR PAN & GRATE		1/2"		3"	
C07b	1	COOLER EVAPORATOR COIL		1/2"		1"	HW TO FID BY KEC
C07c	1	FREEZER EVAPORATOR COIL		1/2"		1"	HW TO FID BY KEC
C15	1	MOP SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"			DRAIN IN FLOOR
C18	1	FRONT LOAD CLOTHES DRYER	1/2"	1/2"			STANDPIPE W
C21	1	THREE-COMPARTMENT SINK	(2) 3/4"	(2) 3/4"		2"	120" F HW, WASTE MANIFOLD THRU G 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"	1/2"			
C29	1	WAREWASHER, RACK CONVEYER	1/2" (DRAIN TEMPERING)	1/2"		2" (TO FS)	
C31	1	SOLID WARE TABLE WITH SOAP SINK				2"	
C32	1	HOSE REEL ASSEMBLY	1/2"	1/2"			
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"		G & 135 MBTU, GD
E06	1	DONUT FRYER			3/4"		G @ 120 MBTU
E07	1	DOUBLE CONVECTION OVEN			3/4"		G @ 100 MBTU
E08	1	SIX-BURNER RANGE WITH OVEN			3/4"		G & 215 MBTU
E12	1	WATER FILTER ASSEMBLY	3/4"				
E13	1	ROTATING DOUBLE BACK 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"			
E36	1	PREP TABLE WITH SINKS	1/2"	1/2"		(2) 2" (TO FS)	
E38	1	ADA COMPLAINT HAND SINK	1/2"	1/2"		1-1/2"	
F04	1	ADA COMPLAINT PREP STATION TABLE WITH SINK	1/2"	1/2"		1-1/2" (TO FS)	
F05	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)	
F15	1	UTILITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"		G @ 1,499 MBTU (1,750 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"		G & 42 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)	1/2"	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"		G @ 252 MBTU
F32	1	HEAVY DUTY UNDERFIRE BROILER			3/4"		G & 95 MBTU
F33	1	GRIDDLE RANGE WITH OVEN & BACKSHELF BROILER			1"		G & 132 MBTU
F34	1	FRYER ASSEMBLY WITH DUMP STATION & FILTER DRAWER			3/4"		G & 160 MBTU
F35	1	FLOOR PAN & GRATE				3"	
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"	1/2"		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"			1-1/4" (TO FS)	
F51	2	SOUP WELL, DROP-IN				1/2" (MANIFOLD TO FS)	
F52	1	HOT FOOD WELL, DROP-IN				1/2" (TO FS)	
F56	1	ADA COMPLAINT HAND SINK	1/2"	1/2"		1-1/2"	
F59	1	PREP TABLE WITH SINKS	1/2"	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 ADD-ON FAUCET	1/2"	1/2"			
G07	1	UNDERMOUNT WORK SINK				2"	
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	QSV-20	LOWER LEVEL PART C	AUTO COLLISION/METAL FABRICATION
AC-2	QUINCY	QGSV20MD	FIRST FLOOR PART A	VOTEC/H SHOPS
AC-3	POWEREX	SD1007	SECOND FLOOR PART A	BIOTECH LAB
AC-4	QUINCY	QGS15-TD	SECOND FLOOR PART A	DRAFTING & DESIGN
AC-5	POWEREX	SET1501	FOURTH FLOOR PART A	DENTAL
AC-6	QUINCY	QGS15-TD	FOURTH FLOOR PART B	ROBOTICS

PLUMBING VACUUM PUMP SCHEDULE				
NO.	MANUFACTURER	MODEL	LOCATION	REMARKS
VAC-1	POWEREX	IV0035V	SECOND FLOOR PART A	BIOTECH LAB
VAC-2	TECH WEST INC.	VFD035	FOURTH FLOOR PART A	DENTAL

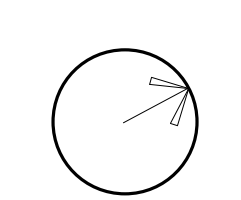
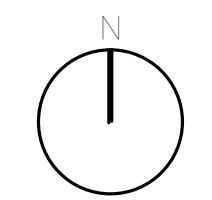
PLUMBING ELECTRIC WATER HEATER SCHEDULE				
NO.	MANUFACTURER	MODEL	LOCATION	REMARKS
EWH-1	PVI	DURAWATT 460	LOWER LEVEL PART C	SERVES C & D WINGS
EWH-2	PVI	DURAWATT 460	MEZZANINE PART B	SERVES COSMETOLOGY AND B WING
EWH-3	AO SMITH	DSE-100	MEZZANINE PART A	SERVES NPWH FOR SCIENCE ROOMS
EWH-4	PVI	DURAWATT 550	SECOND FLOOR PART A	SERVES KITCHEN/CULINARY ARTS AND A WING
EWH-5	AO SMITH	DSE-10	1ST FLOOR ADMIN WING	SERVES ADMIN WING TOILET ROOMS



KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



PLUMBING
SCHEDULES
SHEET

Scale:

Job No.: 6520409

Drawn By: DRA

Date: August 4th, 2022

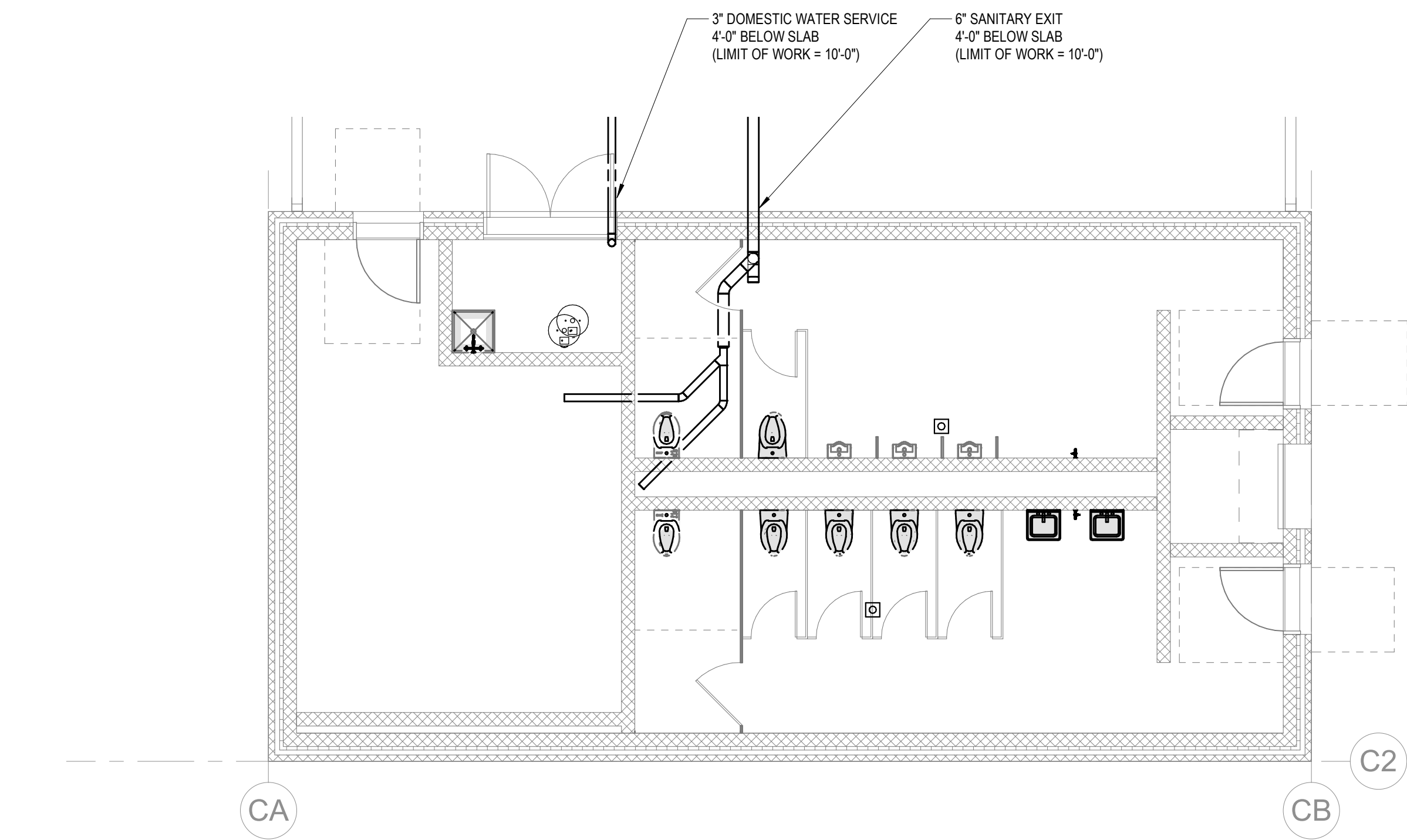
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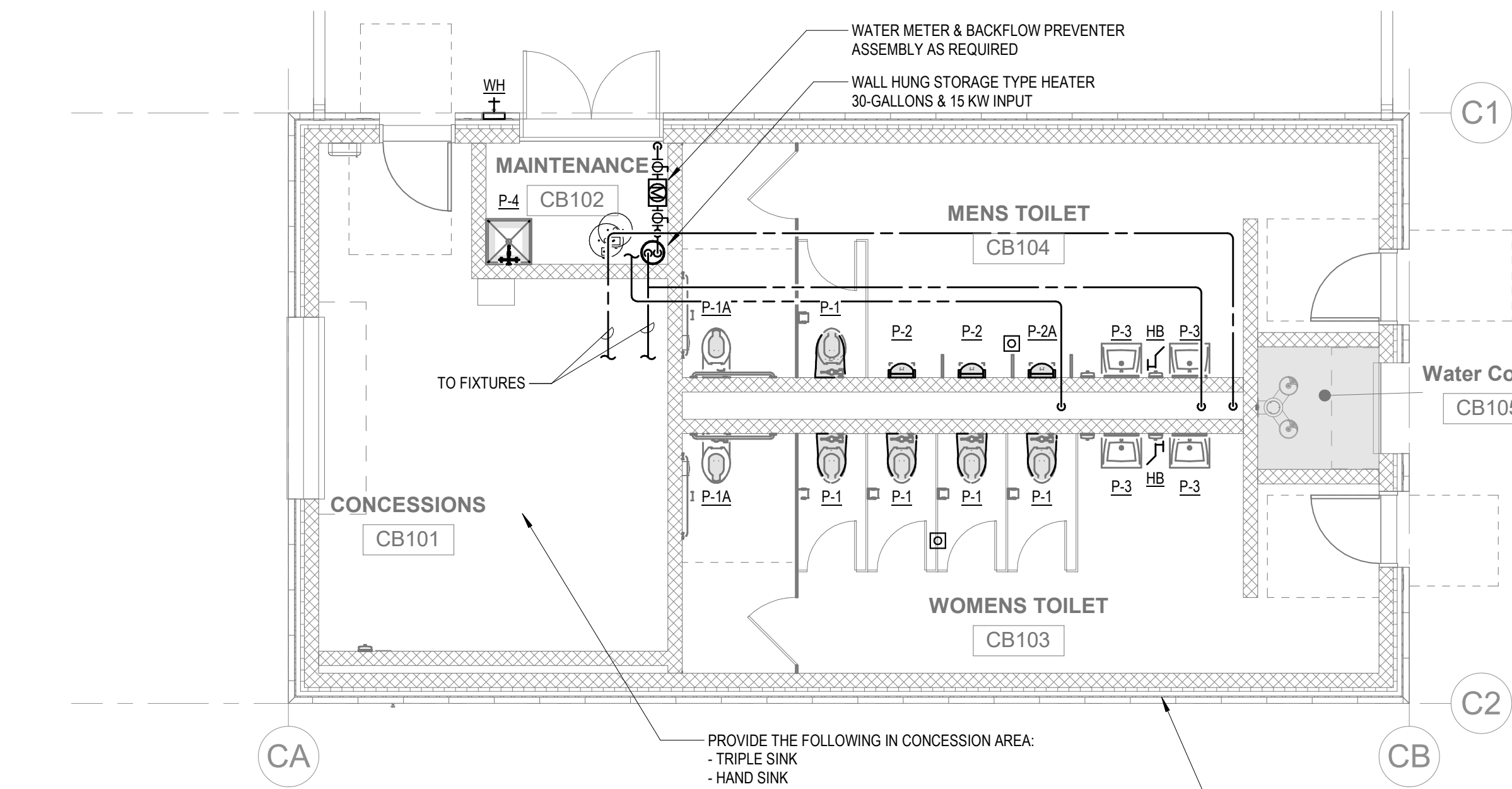
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2 PLUMBING - CONCESSIONS BELOW SLAB
3/16" = 1'-0"



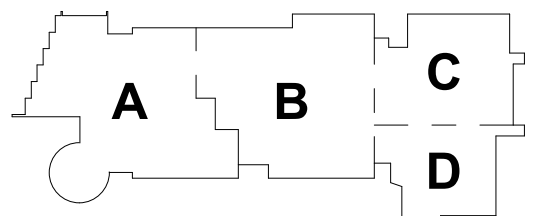
1 PLUMBING - CONCESSIONS FLOOR LEVEL PLAN
3/16" = 1'-0"

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.

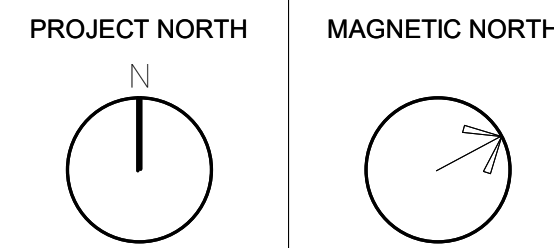
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DEVELOPMENT
SUBMISSION**
August 4th, 2022



KEY PLAN



**PLUMBING -
CONCESSIONS
FLOOR LEVEL
PLAN**

Scale: 3/16" = 1'-0"
Job No.: 2022
Drawn By: DRA
Date: August 4th, 2022

PC-1-1

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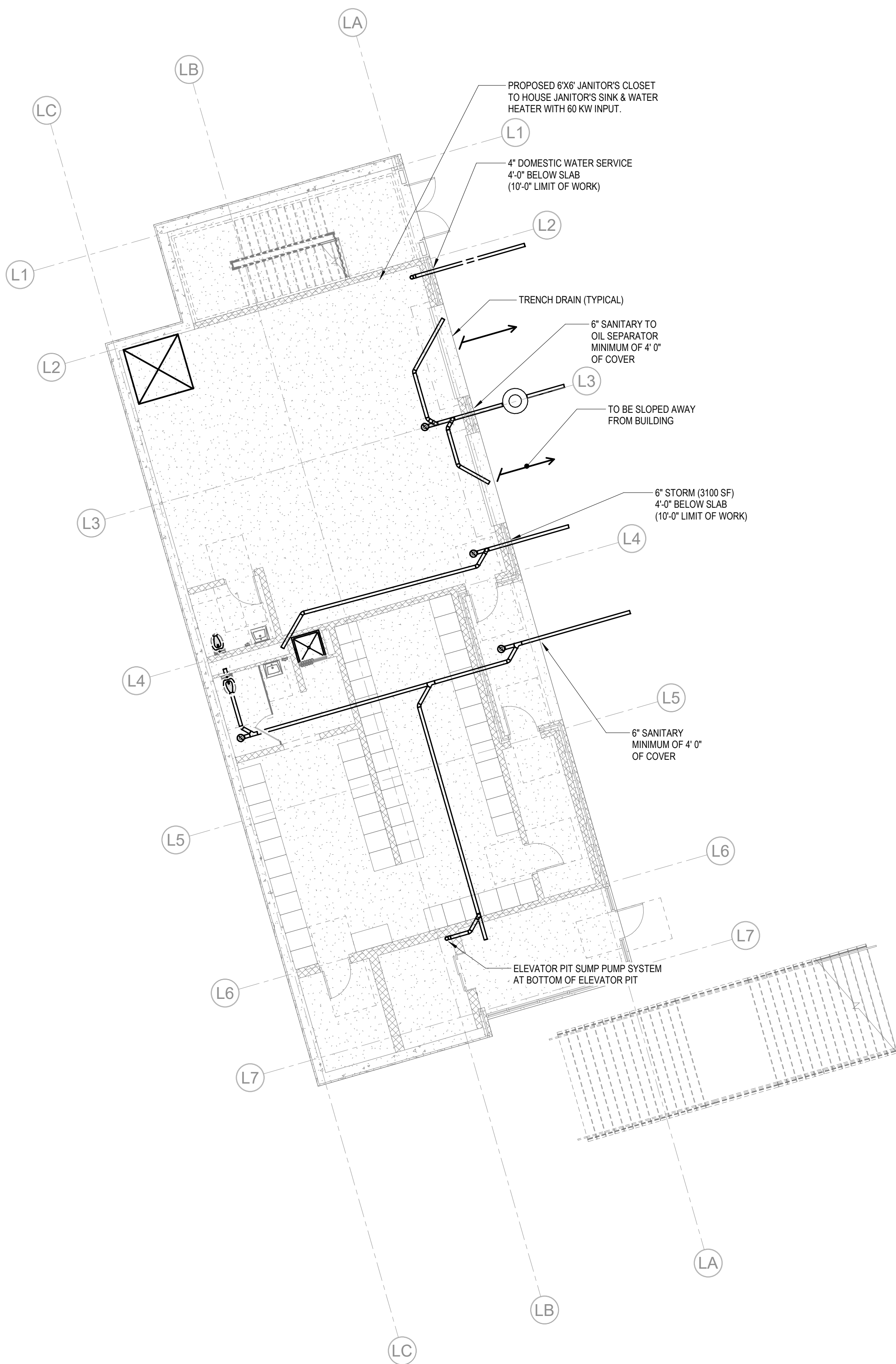
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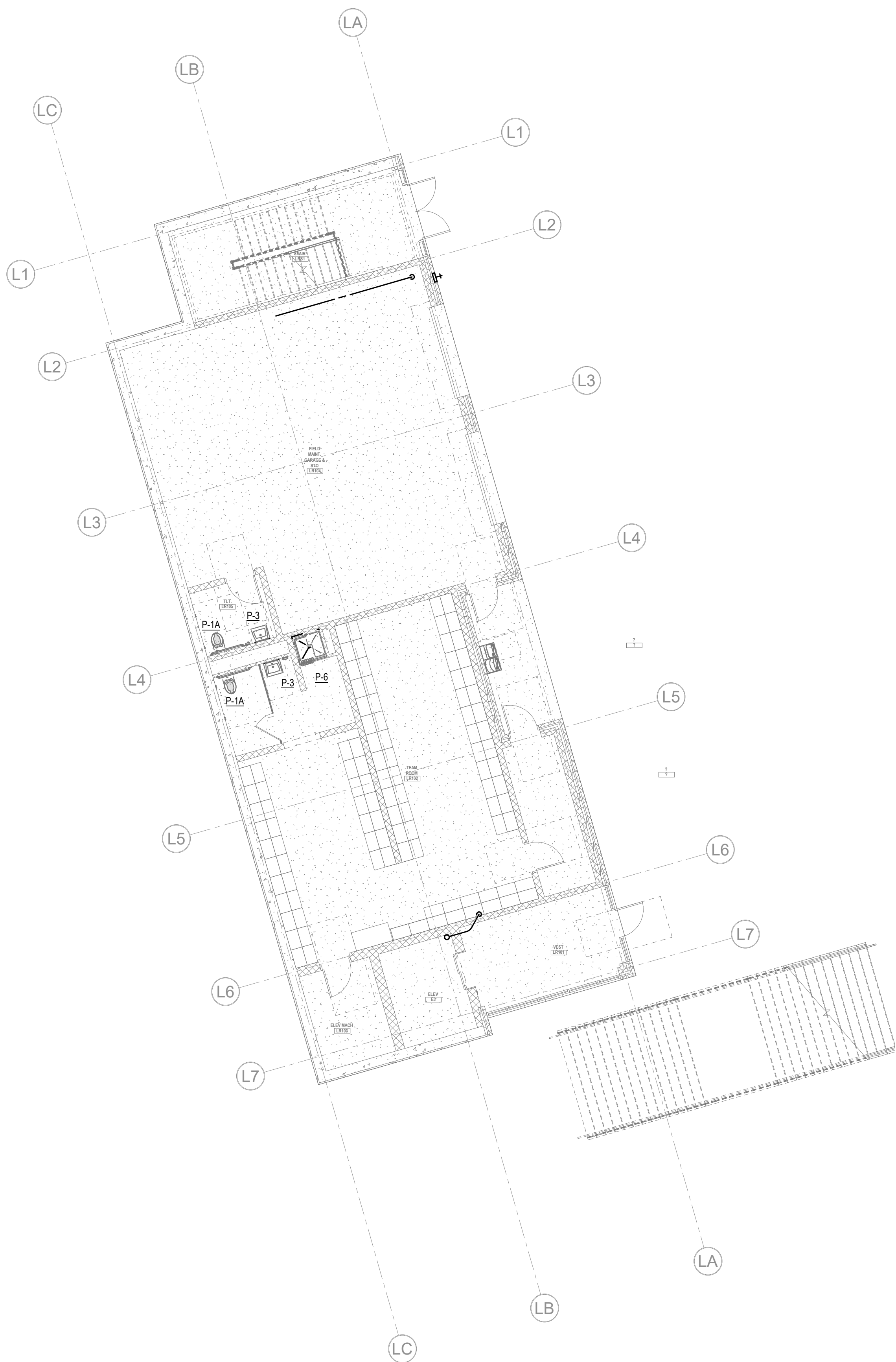
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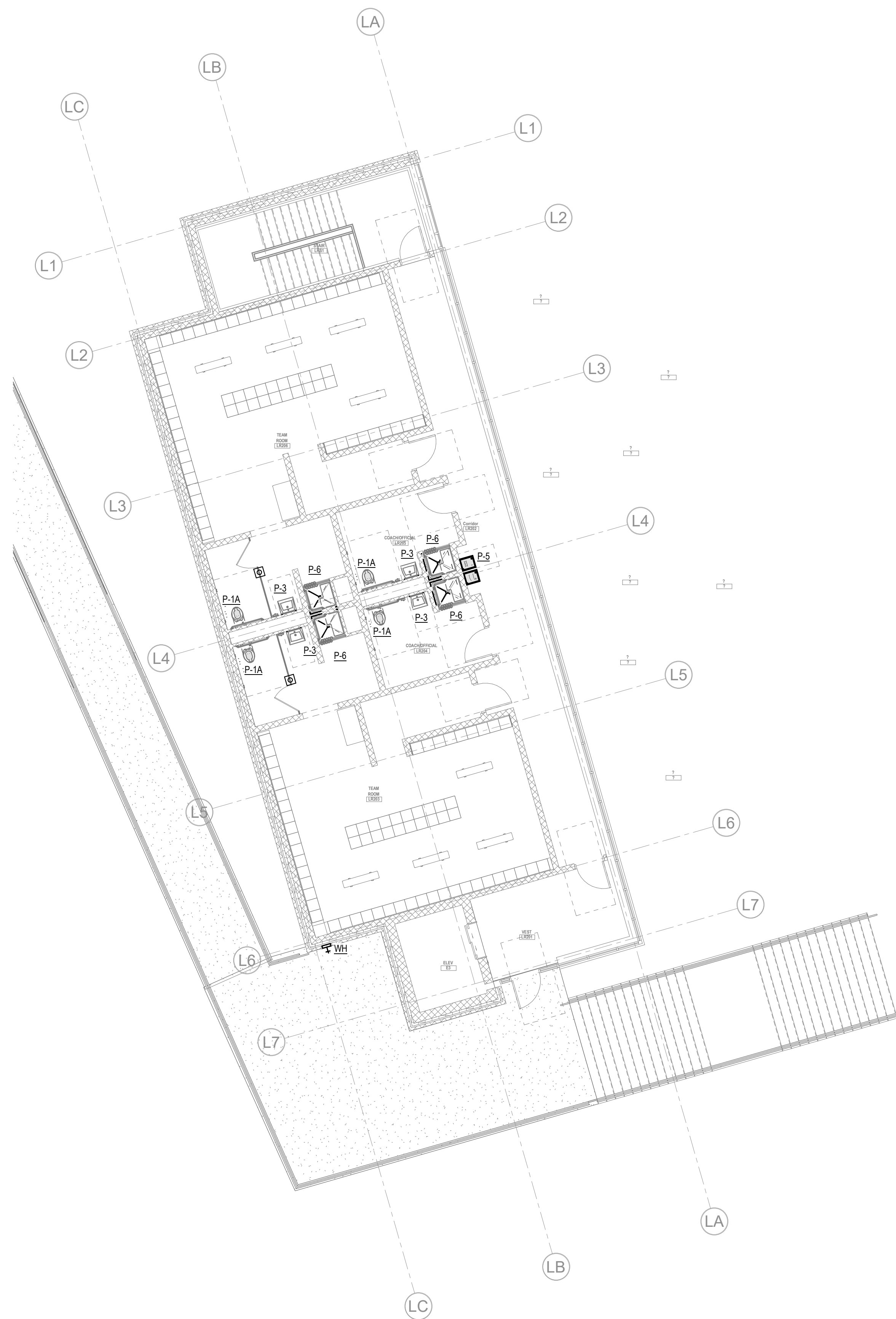
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3 PLUMBING Locker Building Below Slab
1/8" = 1'-0"



1 PLUMBING Locker Building First Floor
1/8" = 1'-0"



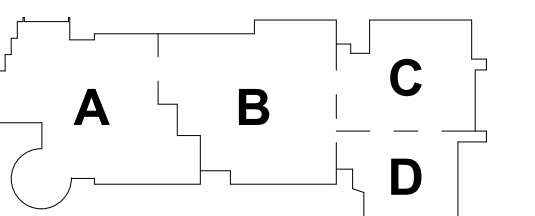
2 PLUMBING Locker Building Second Level
1/8" = 1'-0"

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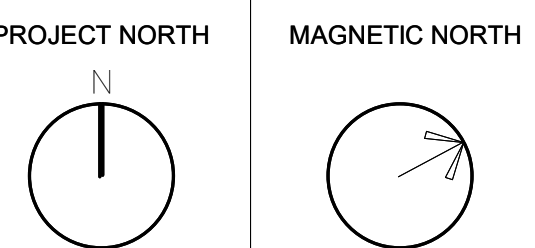
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August 4th, 2022



KEY PLAN

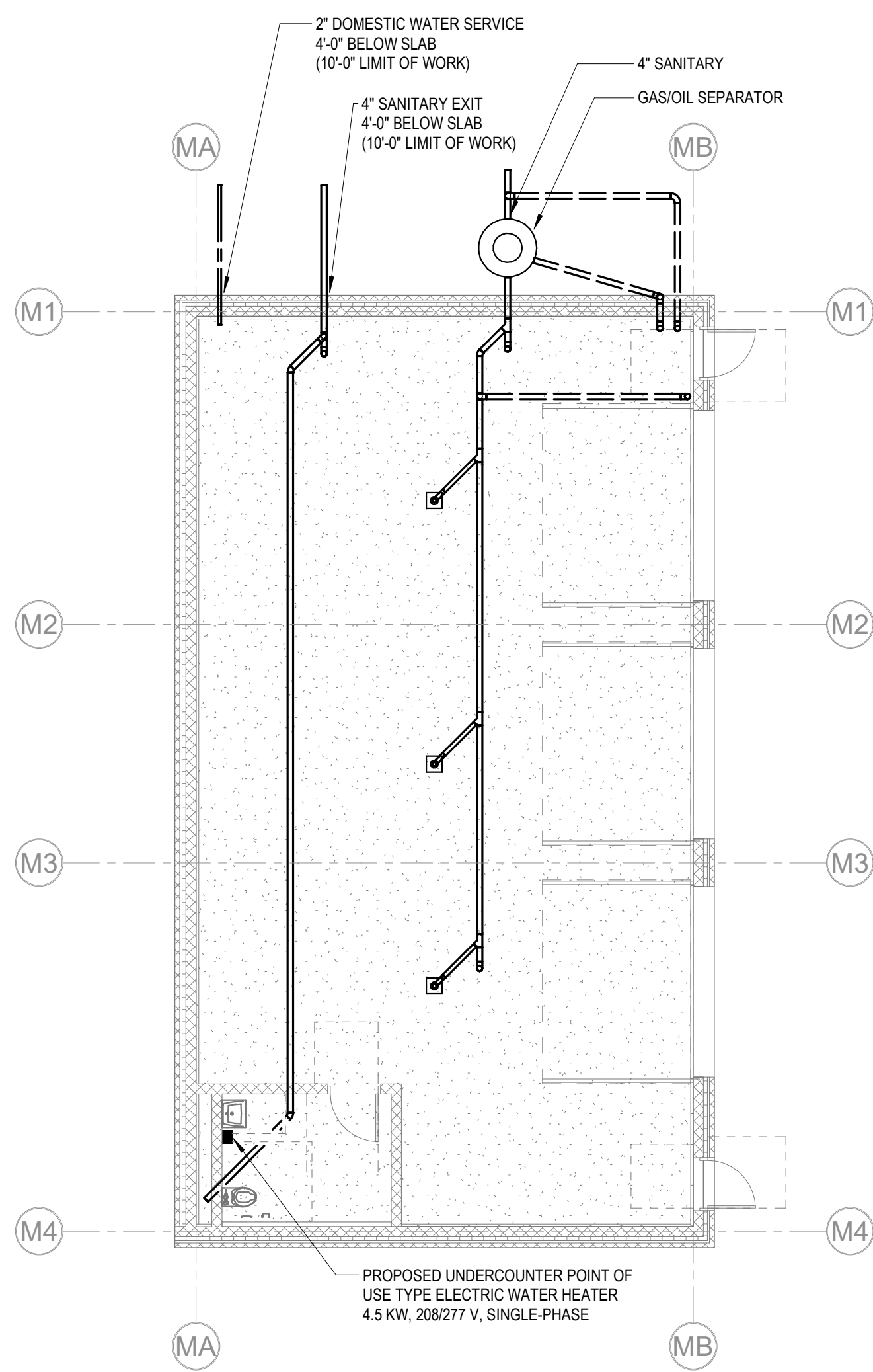


**PLUMBING
LOCKER
BUILDING PLAN**

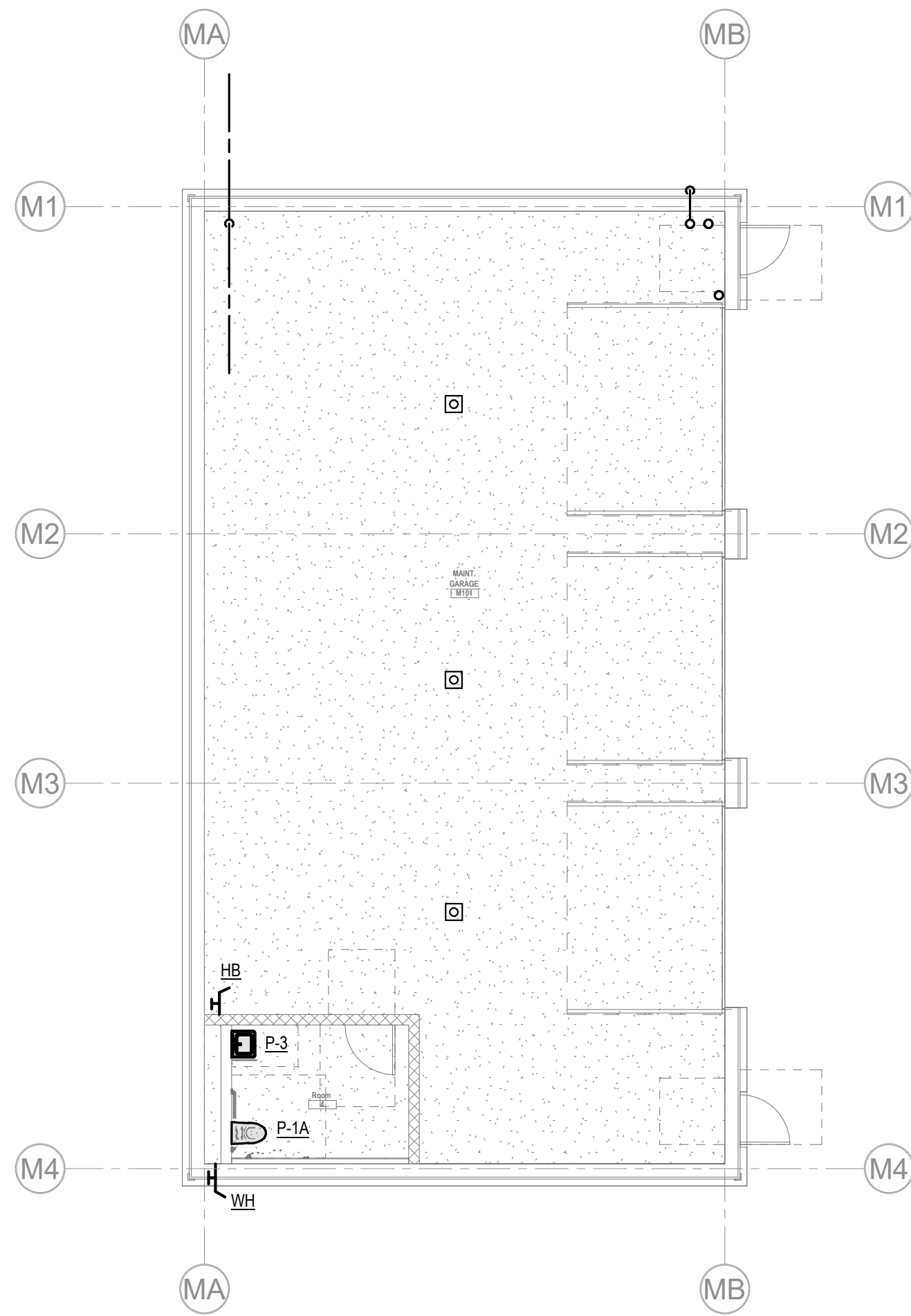
Scale: 1/8" = 1'-0"
Job No.: 20202
Drawn By: DRA
Date: August 4th, 2022

PL-1-1

SCOPE NOTES:
1. IT IS ASSUMED THAT THIS BUILDING IS TO INCLUDE A SLOPE TO GUTTERS AND DOWNSPOUT BY GENERAL CONTRACTOR.
2. 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

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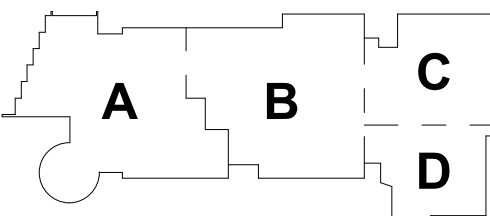
Northeast
Metropolitan
Regional
Vocational High
School

Wakefield, MA 01880

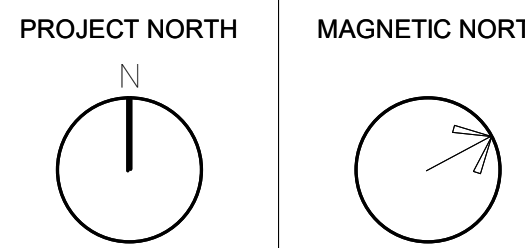
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MSBA DESIGN
DEVELOPMENT
SUBMISSION
August 4th, 2022



KEY PLAN



PLUMBING
MAINTENANANCE
BUILDING PLAN

Scale: 1/8" = 1'-0"
Job No.: 2022
Drawn By: DRA
Date: August 4th, 2022

PM-1-1