

[illegible]





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

260 Charles Street  
Studio 300  
Waltham, MA  
02453

Planning | Architecture | Interior Design

# Northeast Metropolitan Regional Vocational High School

Wakefield, MA 01880

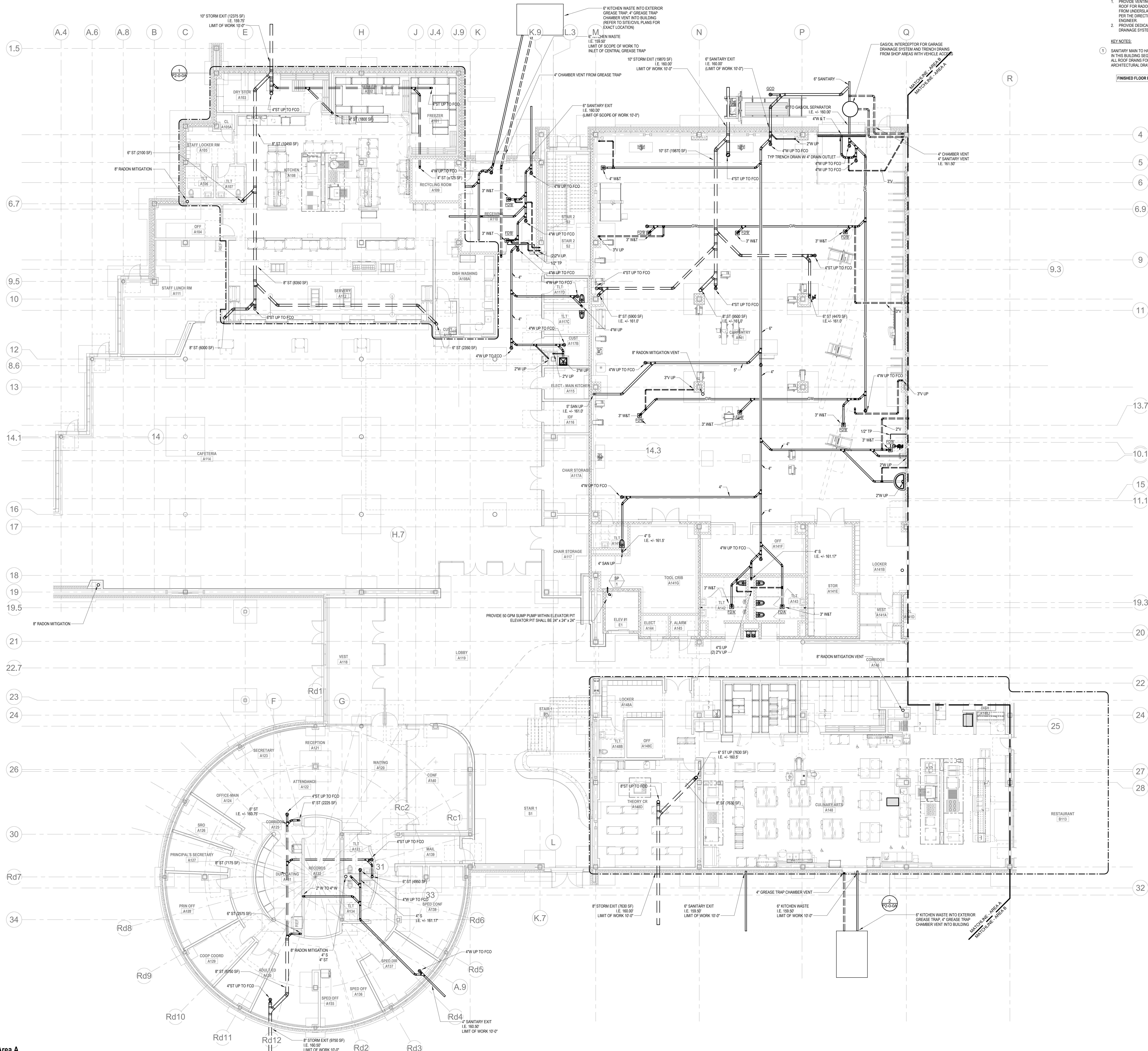
## SCOPE NOTE:

1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RADON 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:

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.

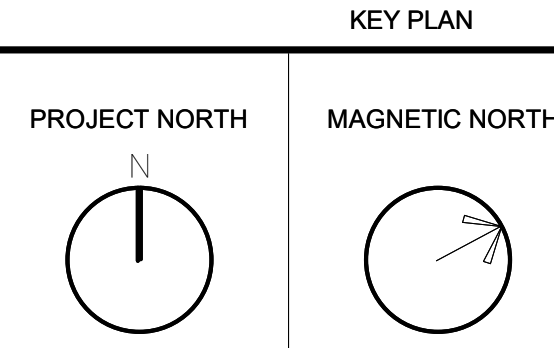
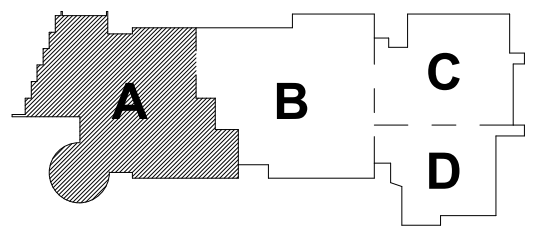
FINISHED FLOOR ELEVATION AT FIRST FLOOR IS 163.50'



© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

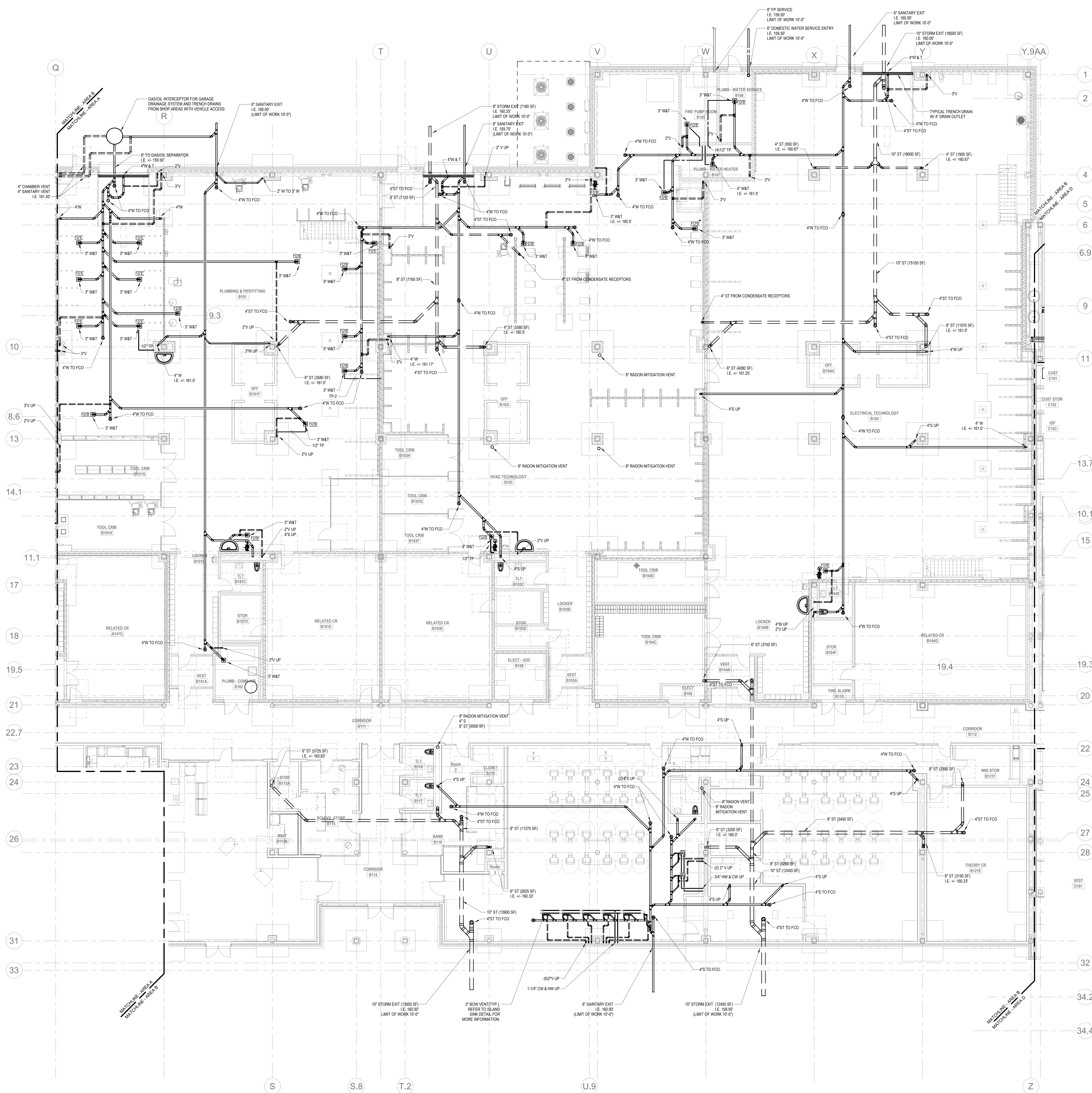


## PLUMBING FIRST FLOOR PLAN - AREA A BELOW SLAB

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-0-0A**





- SCOPE NOTE:
1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RADON MITIGATION. PROVIDE 8\"/>
  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.
- FINISHED FLOOR ELEVATION AT FIRST FLOOR IS 163.50'



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

260 Charles Street  
Studio 300  
Waltham, MA 02453  
Tel: 817.984.1700  
www.dra.com

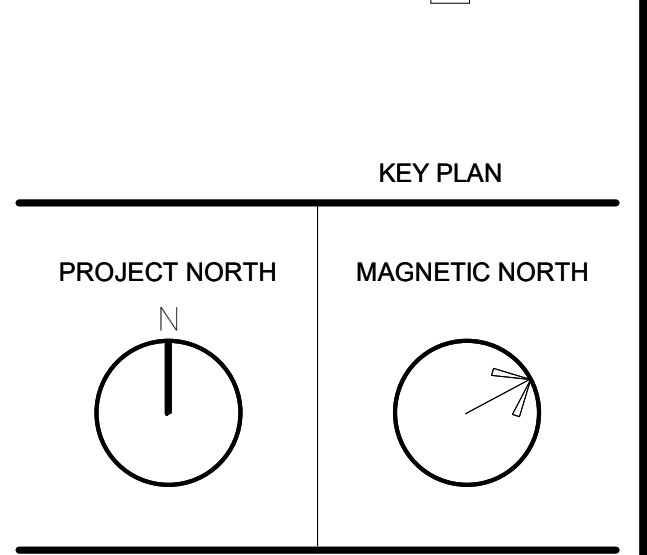
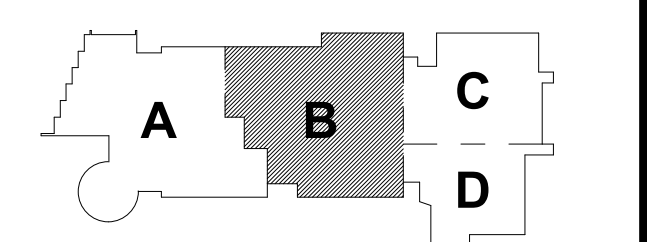
**Northeast Metropolitan Regional Vocational High School**

Wakefield, MA 01880

© COPYRIGHT 2021 DRUMMEYS ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



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

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-0-0B**

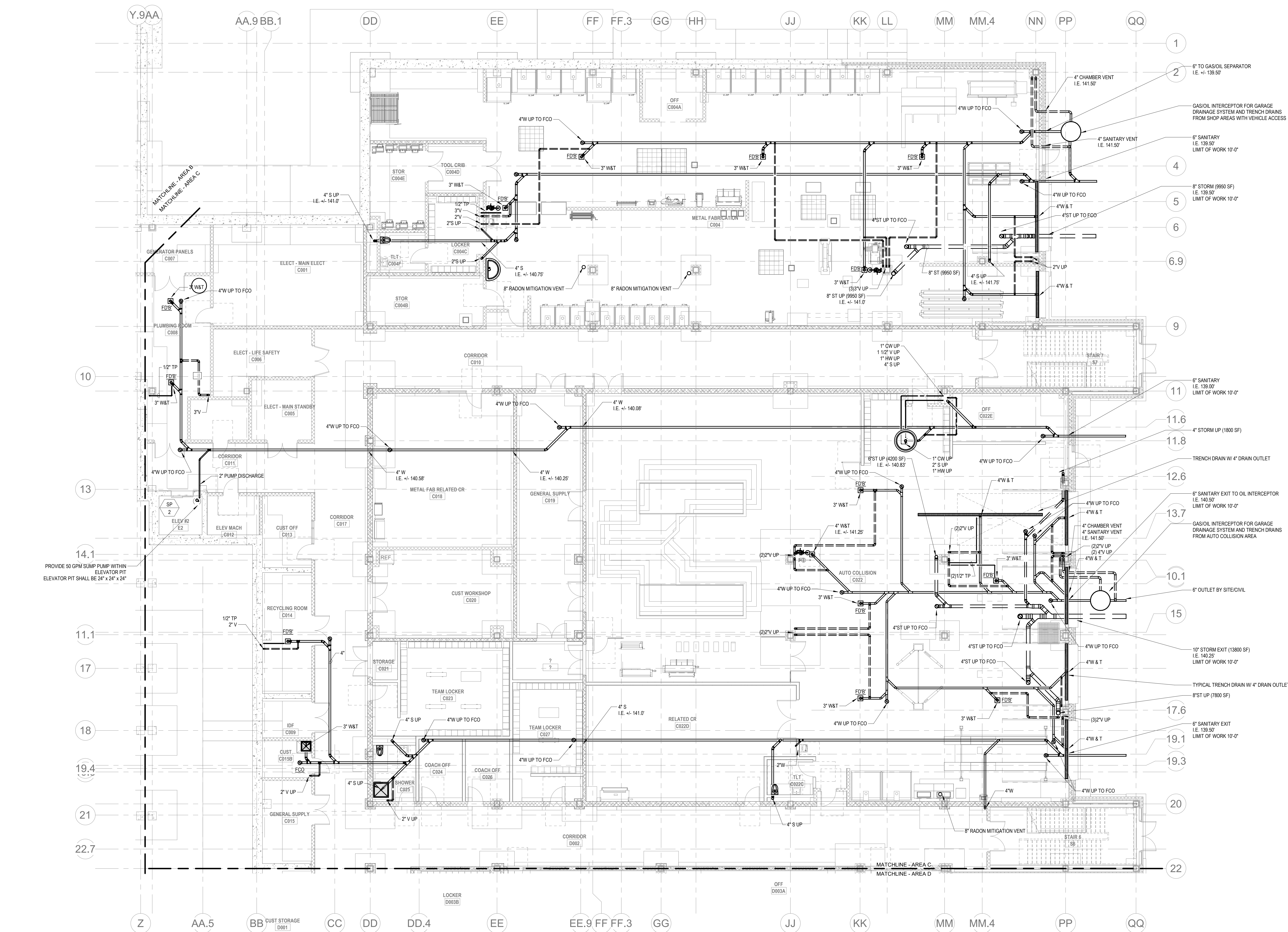
1. PROVIDE VENTING FROM LOWER LEVEL THROUGH ROOF FOR RADON MITIGATION. PROVIDE 8" VENT FROM UNDERSLAB THROUGH ROOF PER 10,000 SF, PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.

DRA

Planning | Architecture | Interior Design  
Tel: 617.964.1700  
www.draives.com

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

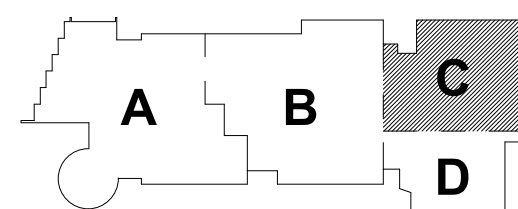


**PLUMBING Level 0 Area C - Below Slab**

© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

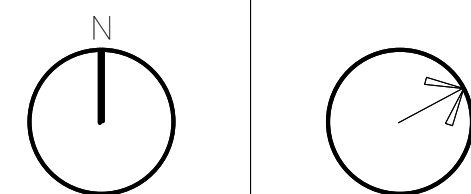
**BALA**  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



### KEY PLAN

PROJECT NORTH	MAGNETIC NORTH
100	100
90	90
80	80
70	70
60	60
50	50
40	40
30	30
20	20
10	10
0	0
330	330
320	320
310	310
300	300
290	290
280	280
270	270
260	260
250	250
240	240
230	230
220	220
210	210
200	200
190	190
180	180
170	170
160	160
150	150
140	140
130	130
120	120
110	110
100	100



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

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-0-0C**

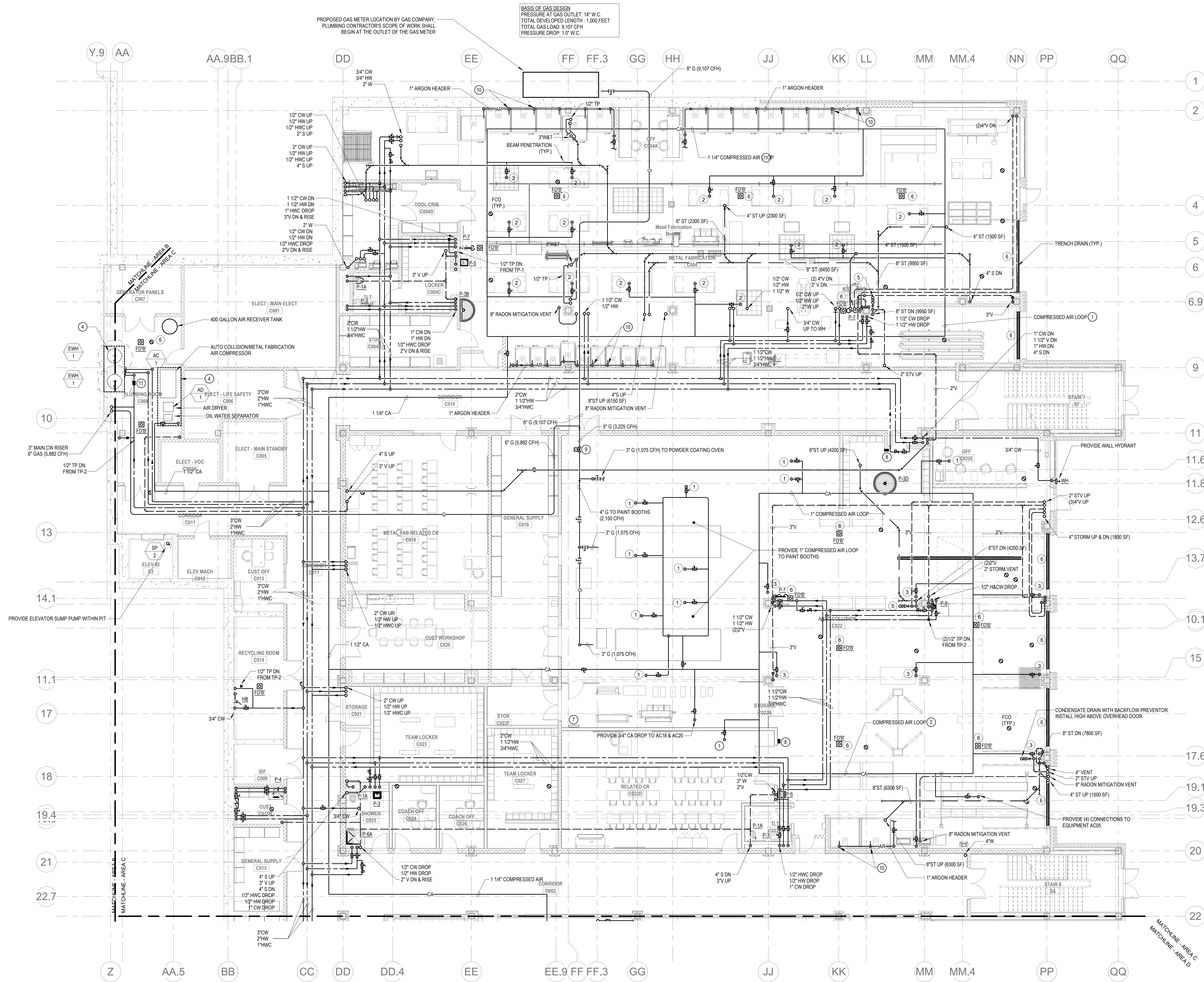


FINISHED FLOOR ELEVATION AT LOWER LEVEL IS 143.50'

Wakefield, MA 01880

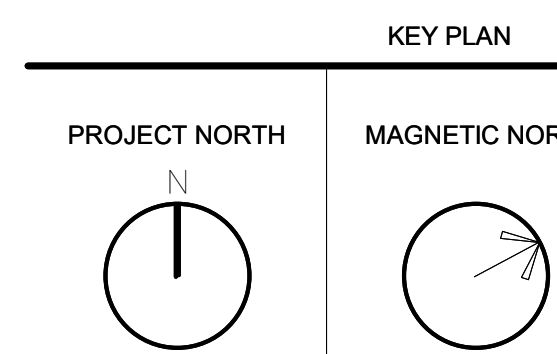
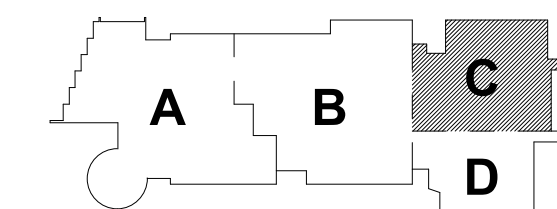


**P1-0-0D**



- KEY NOTES:
1. PROVIDE 1/2" COMPRESSED AIR DROP FROM CEILING. EACH DROP SHALL CONTAIN A PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
  2. PROVIDE 1/2" COMPRESSED AIR CONNECTION TO 25 FOOT HOSE REEL. FOR USE AT METAL WORKBENCH IN METAL FABRICATION SHOP. EACH CONNECTION SHALL CONTAIN A PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
  3. PROVIDE 3/4" COMPRESSED AIR DROP TO FEED DOUBLE COMPRESSED AIR OUTLET. EACH DROP SHALL CONTAIN A SHUTOFF VALVE, PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
  4. PROVIDE CONCRETE HOUSEKEEPING PAD.
  5. CONDENSATE DRAIN WITH BACKFLOW PREVENTOR. INSTALL TIGHT TO WALL. FIELD COORDINATE INSTALLATION.
  6. PROVIDE FLOOR/TRENCH DRAIN WITH TRAP GUARD.
  7. MASTER GAS VALVE CONTROL PANEL. EMERGENCY SHUTOFF PANEL. TO GAS SUPPLY TO PAINT BOOTHS AND POWDER COATING BOOTH.
  8. EMERGENCY SHUTOFF BUTTON FOR GAS SUPPLY.
  9. GAS SOLENOID VALVE SHALL BE WIRED TO EMERGENCY SHUTOFF PANEL AND EMERGENCY SHUTOFF BUTTONS WITHIN AUTO COLLISION SHOP.
  10. 1/2" ARGON DROP TO EACH WELDING BOOTH. PROVIDE SHUTOFF VALVE AND QUICK DISCONNECT. 48" AFF. (TYPICAL).
  11. PROVIDE 3/4" WATER METER FOR AREA C WATER HEATERS.

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



PLUMBING  
LOWER LEVEL  
FLOOR PLAN -  
AREA C

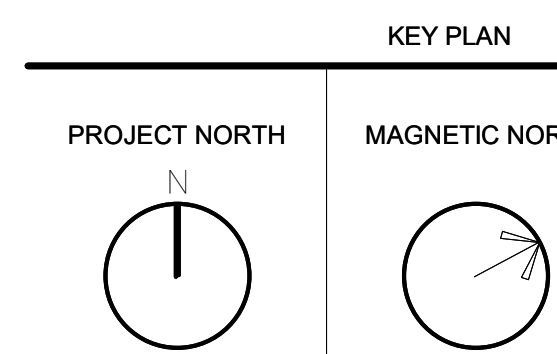
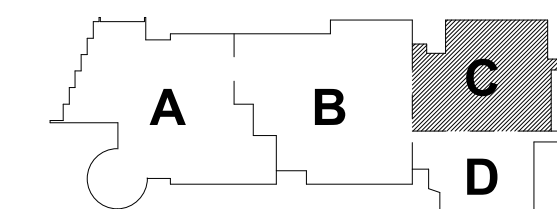
Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-0C

© COPYRIGHT 2021 DRUMMET ROSANE ANDERSON, INC.

BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



PLUMBING  
LOWER LEVEL  
FLOOR PLAN -  
AREA C

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-0C

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

260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Tel: 817.984.1700  
www.dra.com

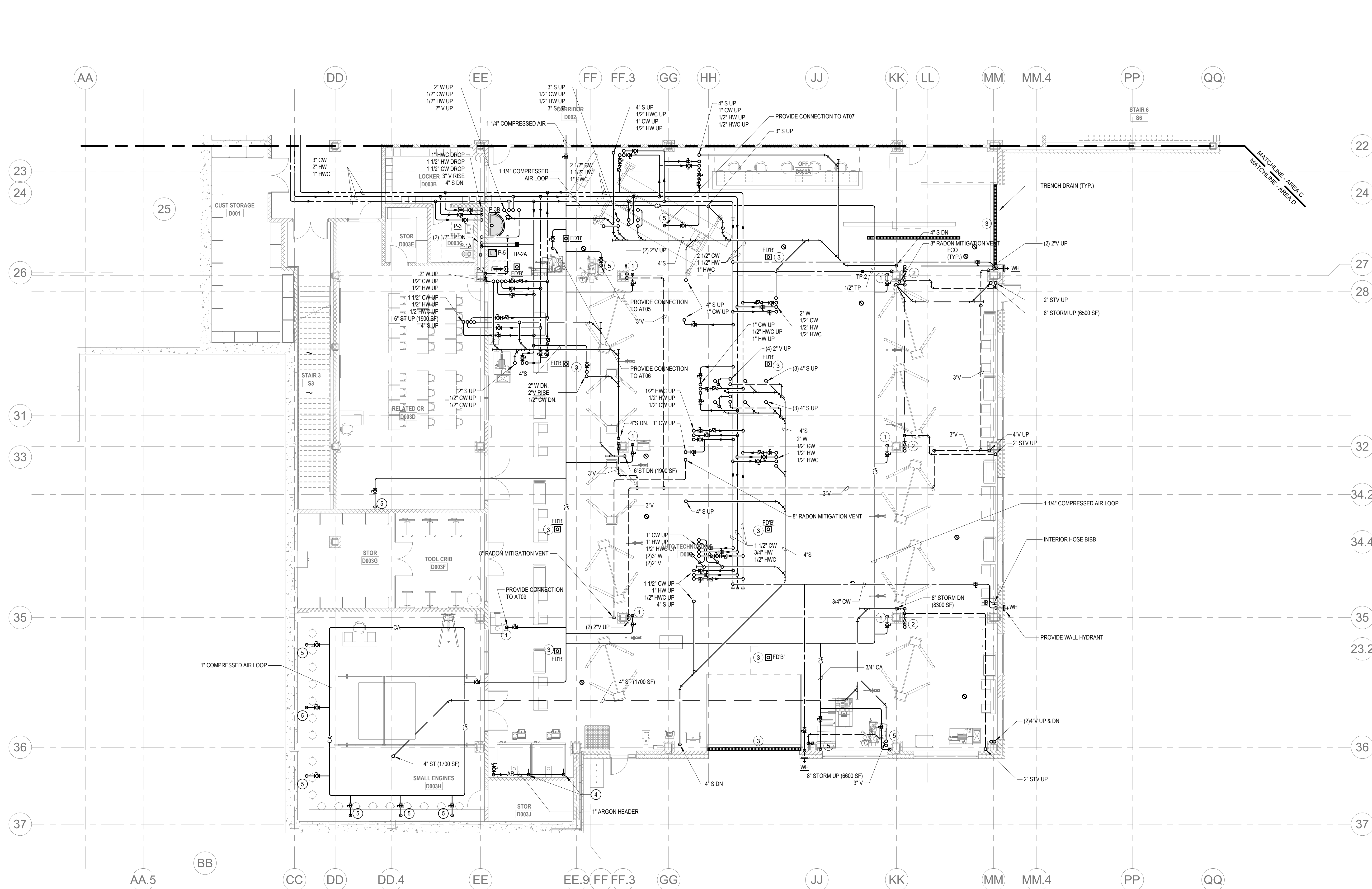
Planning | Architecture | Interior Design

Northeast  
Metropolitan  
Regional  
Vocational High  
School  
Wakefield, MA 01880



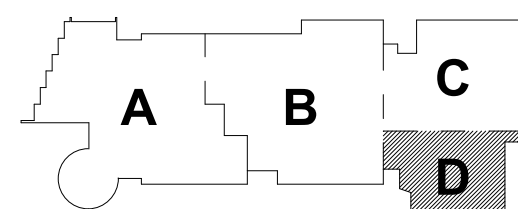
**KEY NOTES:**

1. PROVIDE 3/4" COMPRESSED AIR DROP TO FEED DOUBLE COMPRESSED AIR OUTLET. EACH DROP SHALL CONTAIN A SHUTOFF VALVE, PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.
2. CONDENSATE RECEPTOR WITH BACKFLOW PREVENTOR. INSTALL TIGHT TO WALL. FIELD COORDINATE INSTALLATION.
3. PROVIDE FLOOR/TRENCH DRAIN WITH TRAP GUARD.
4. 1/2" ARGON DROP TO EACH WELDING BOOTH. PROVIDE SHUTOFF VALVE AND QUICK DISCONNECT 48" AFF (TYPICAL).
5. PROVIDE 1/2" COMPRESSED AIR DROP TO FEED COMPRESSED AIR OUTLET. EACH DROP SHALL CONTAIN A SHUTOFF VALVE, PRESSURE GAUGE, AIR FILTER, CONDENSATE FILTER, AND PRESSURE REGULATOR.



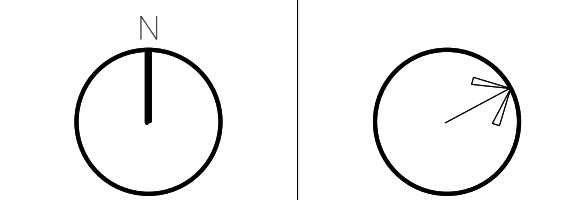
**PLUMBING Level 0 Area D**  
P1-1-0D  
1/8" = 1'-0"

© COPYRIGHT 2021 DRUMME ROSANE ANDERSON, INC.



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



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

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-1-0D**

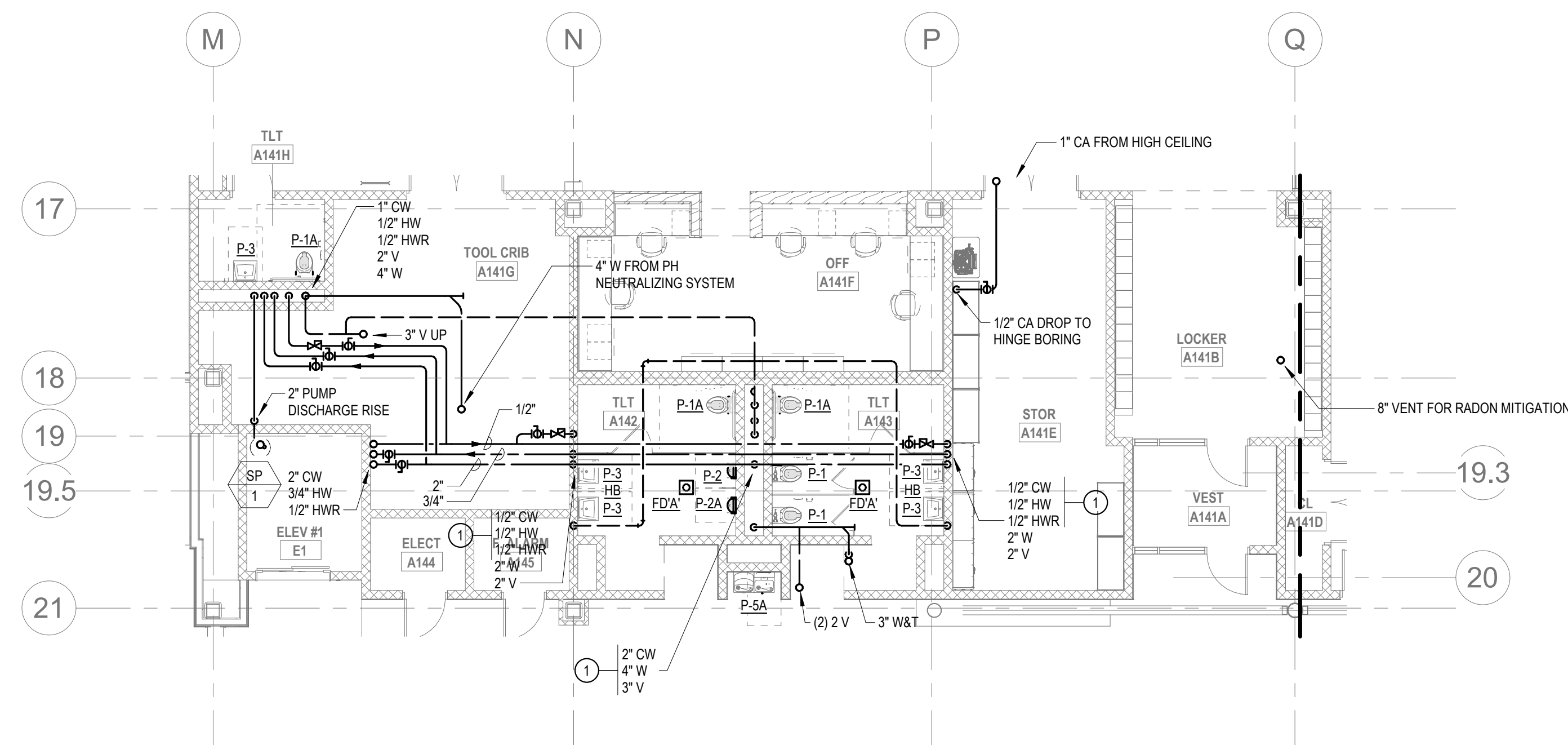




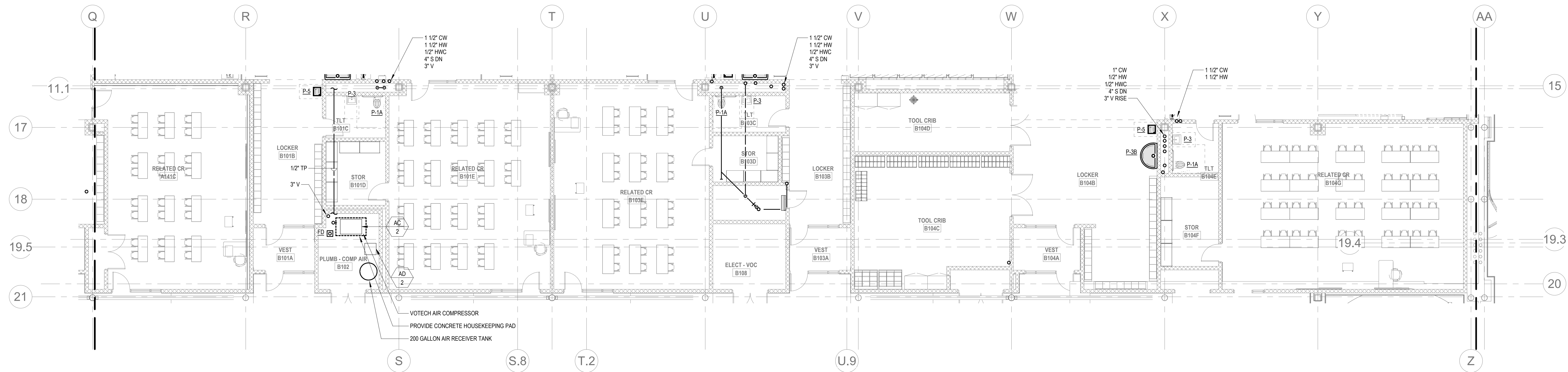


## KEY NOTES:

- 1 PROVIDE REQUIRED VALVES ON EACH WATER PIPING DROP.



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



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

DRA

Drummeey Rosane Anderson, Inc.

225 Oakland Road  
Studio 205  
South Windsor, CT  
06074

260 Charles Street  
Studio 300  
Waltham, MA  
02453

Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra-inc.com

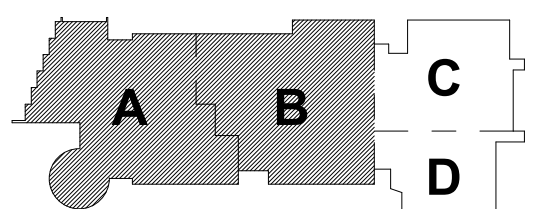
**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

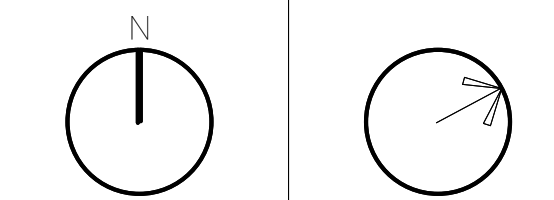
**BALA**  
ENGINEERS  
Bala Controls and Engineering, Inc.  
200 Main Street, Suite 100  
Wakefield, MA 01880  
Tel: 617.984.1700 Fax: 617.984.1701  
www.bala-engineers.com

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



## KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**PLUMBING FIRST  
FLOOR BELOW  
MEZZANINE  
PLAN - AREA A/B**

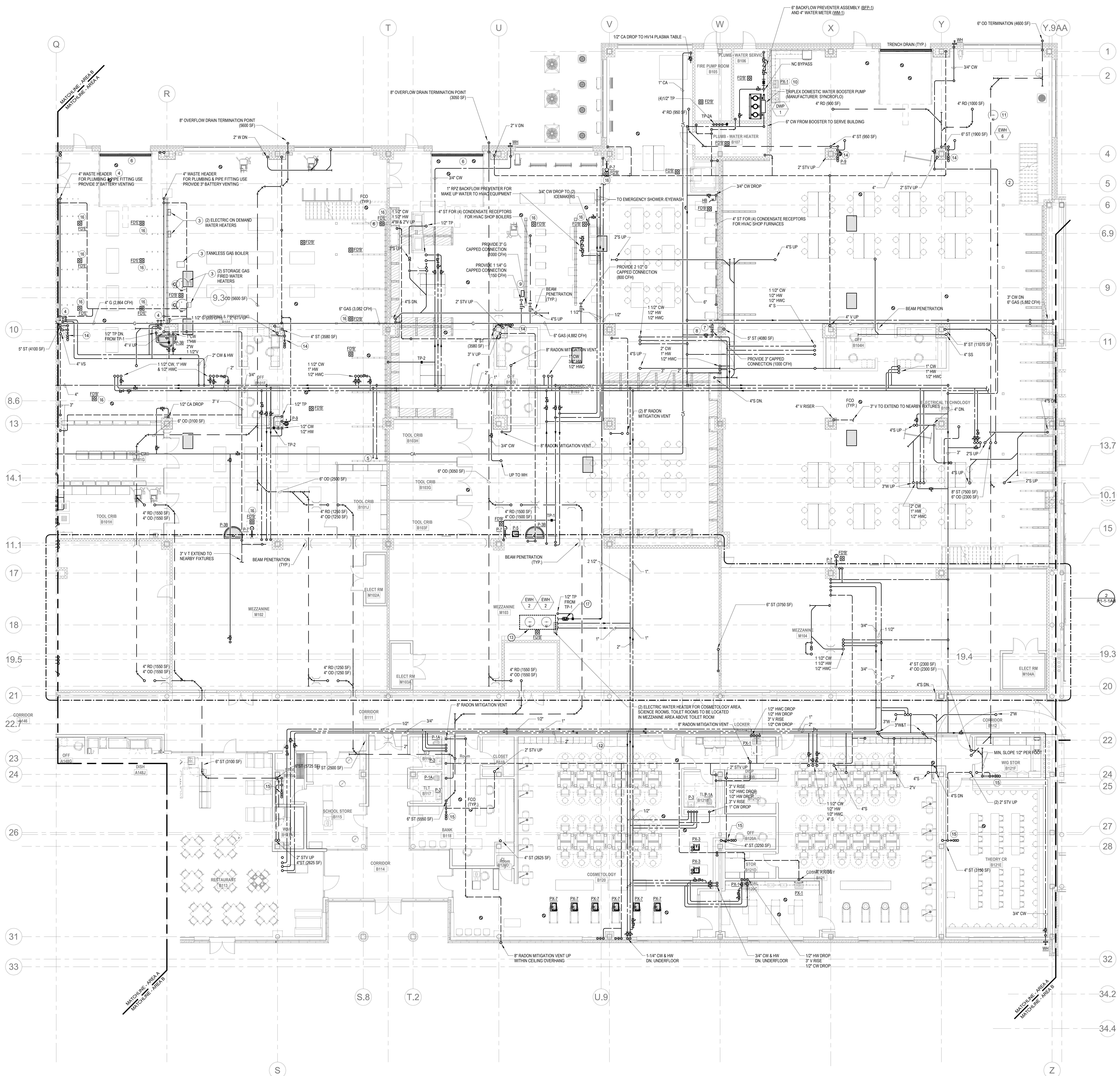
Scale: 1/8" = 1'-0"

Job No.: 60-20-409

Drawn By: Author

Date: May 12th, 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 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.
  3. GAS WATER HEATER: BRADFORD WHITE #BW624058N GAS BOILER (TANKLESS). IDEAL #IDEEX1550. ELECTRIC ON DEMAND WATER HEATER: BRADFORD WHITE #BW634055-1N0WY.
  4. PROVIDE 1 1/2" CW AND 1 1/2" HW AT THIS APPROXIMATE LOCATION. DROP WATER PIPING AGAINST COLUMN AND CAP FOR FUTURE USE FOR STUDENT PLUMBING BOOTH.
  5. PROVIDE CAPPED CW & HW CONNECTION FOR STUDENT USE AT PLUMBING BOOTH.
  6. PROVIDE OPEN 4" DRAIN LINE SLOPED TOWARDS FLOOR DRAIN.
  7. PROVIDE 4" CAPPED GAS LINE WITH MASTER GAS SHUT-OFF FOR FUTURE USE BY SCHOOL (1,000 CFH).
  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. NAYEN #NPE-180A2 (150 CFH).
  10. PK-1 SINK IN ELECTRICAL SHOP IS A MOCK SINK. PROVIDE NO WATER OR WASTE TO SINK. PROVIDE GARBAGE DISPOSAL TO PK-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, 2" W, AND 2" V CONNECTIONS.
  13. PROVIDE CONCRETE HOUSEKEEPING PAD.
  14. CONDENSATE RECEPTOR WITH BACKFLOW PREVENTOR. INSTALL TIGHT TO WALL. FIELD COORDINATE INSTALLATION.
  15. CONDENSATE RECEPTOR WITH BACKFLOW PREVENTOR. INSTALL ABOVE CEILING. FIELD COORDINATE INSTALLATION.
  16. PROVIDE FLOOR/TRENCH DRAIN WITH TRAP GUARD.
  17. PROVIDE 1/2" WATER METER FOR COSMETOLOGY WATER HEATERS.
- SCOPE NOTES:**
- PROVIDE ALLOWANCE FOR 6" SECONDARY ROOF DRAINAGE TERMINATION POINT ON NORTH SIDE OF BUILDING.

**DRA**

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

260 Charles Street  
Studio 300  
Waltham, MA 02453

**Northeast Metropolitan Regional Vocational High School**

Wakefield, MA 01880

**BALA**  
ENGINEERS

BALA CONSULTING ENGINEERS, INC.  
200 Main Street, Suite 200  
Wakefield, MA 01880  
Tel: 817.984.1700  
www.bala.com

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

A

B

C

D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

**PLUMBING FIRST FLOOR PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-1-1B**



KEY NOTES:

- 1 PROVIDE ROOF DRAIN WITH FLAT GRATE UNDER PAVERS.
- 2 PROVIDE SECONDARY ROOF DRAINAGE HALF WAY UP THE ROOF PITCH TO AVOID WATER BACKING UP INTO THE BUILDING.
- 3 PROVIDE PLASTER TRAPS FOR SINKS.
- 4 PROVIDE WASHING MACHINE BOX TO RECEIVE CW, HW, WASTE AND VENT CONNECTIONS FOR WASHING MACHINE.

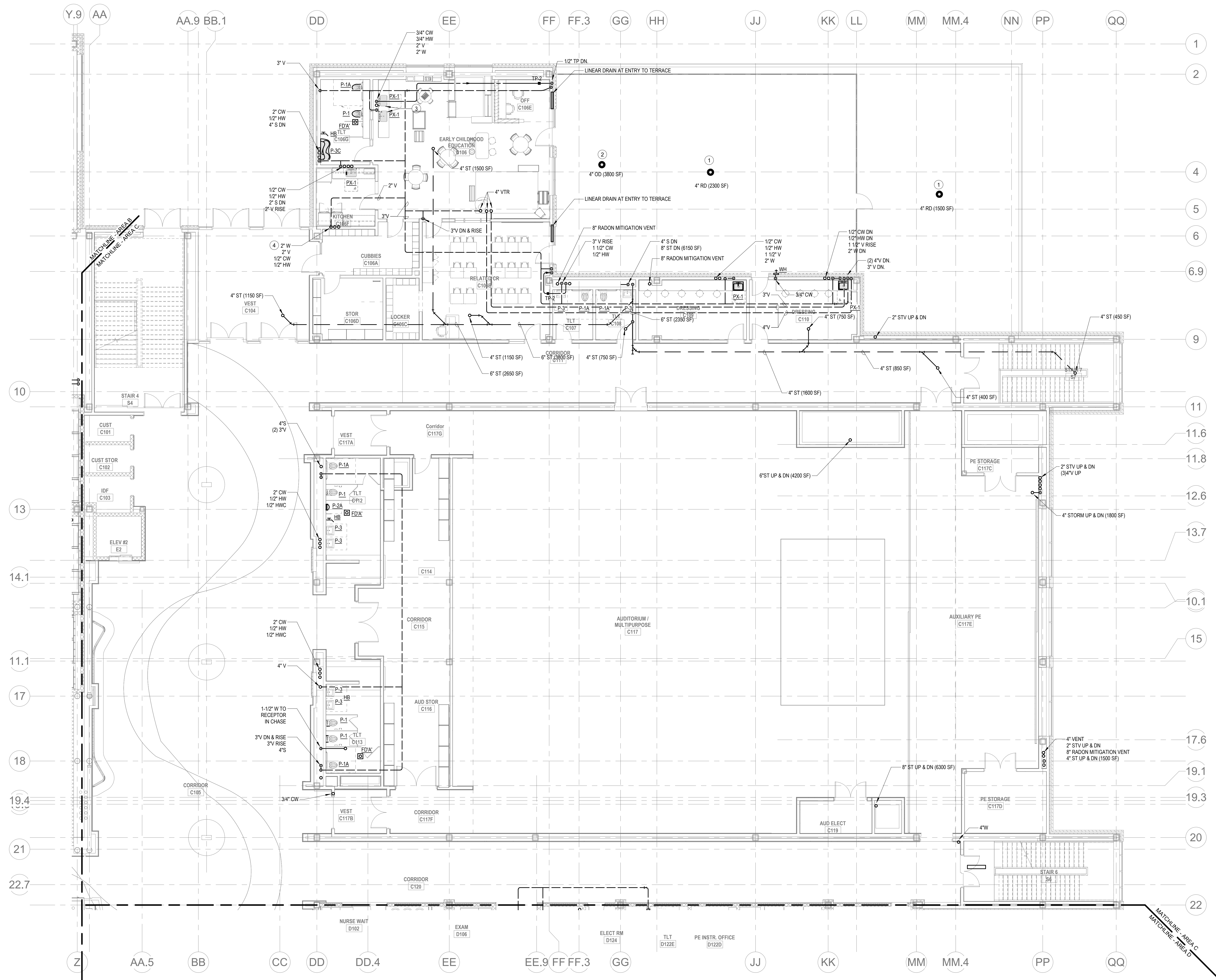
DRA

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

280 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design

Northeast  
Metropolitan  
Regional  
Vocational High School

Wakefield, MA 01880

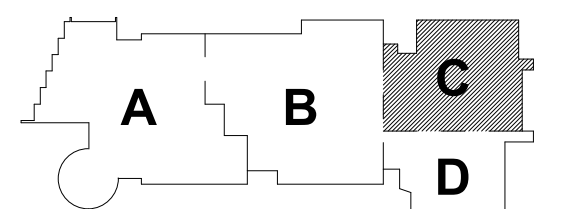


PLUMBING Level 1 Area C  
1/8" = 1'-0"

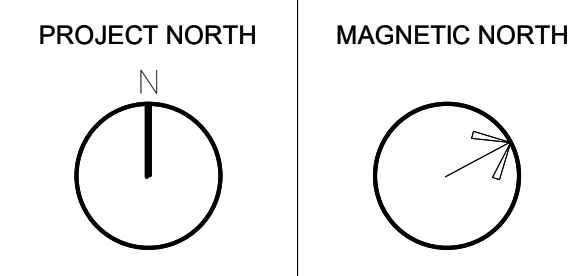
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



PLUMBING FIRST  
FLOOR PLAN -  
AREA C

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-1C

KEY NOTES:  
① PROVIDE VALVED 1/2" CW CONNECTION TO ICEMAKER.

DRA

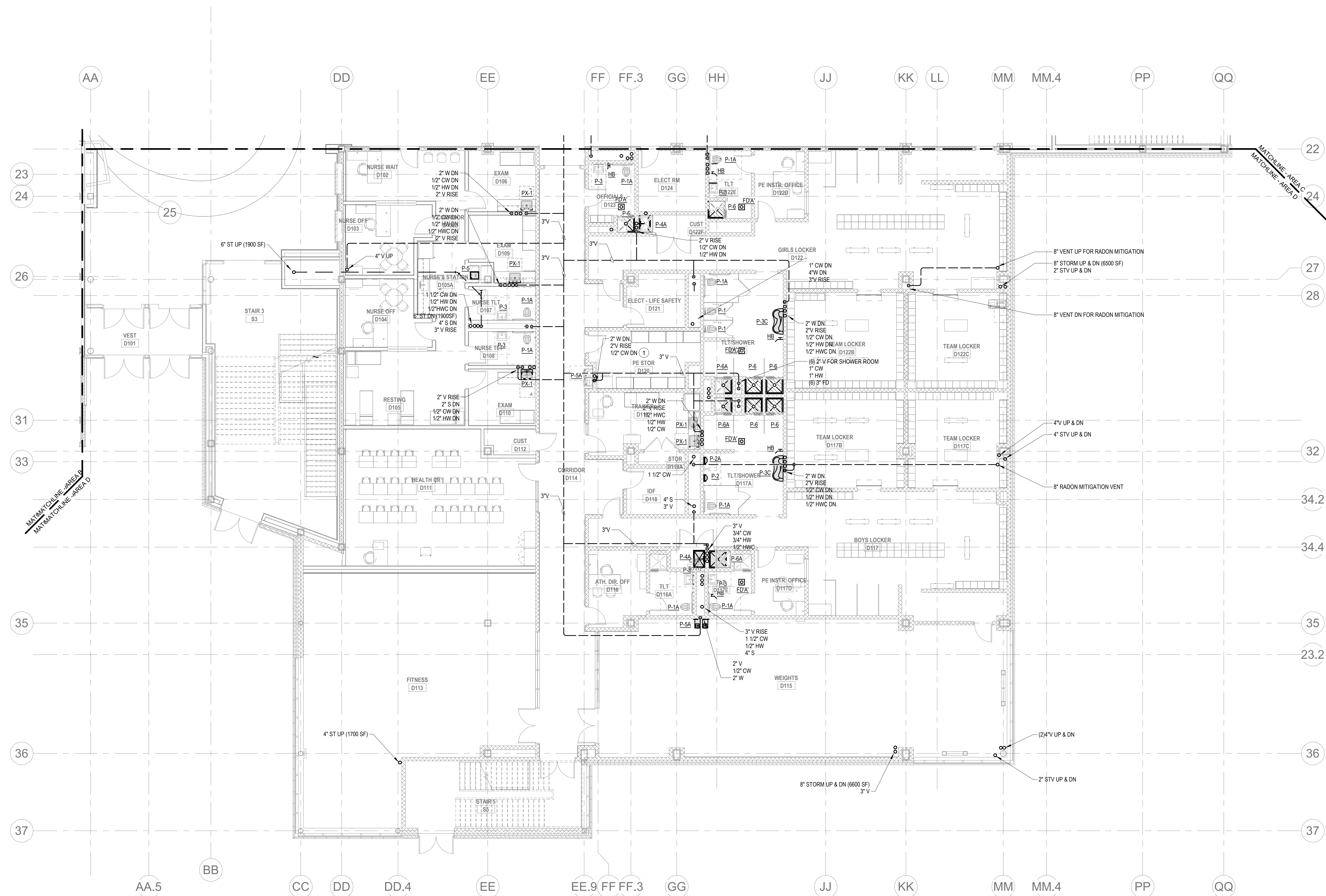
Drummeey Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
Tel: 817.984.1702  
www.draan.com

280 Charles Street  
Studio 300  
Waltham, MA  
02453

Planning | Architecture | Interior Design

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

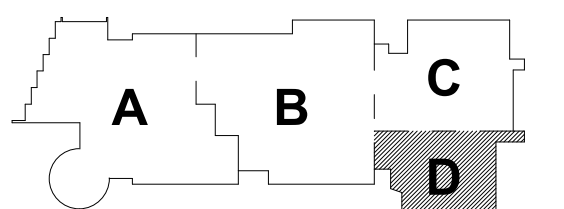
Wakefield, MA 01880



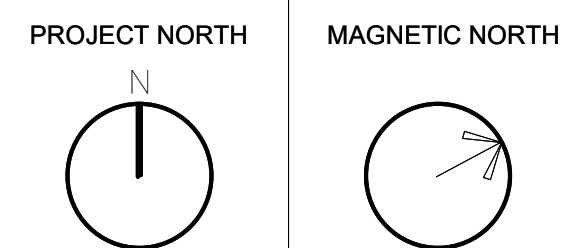
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

**BALA**  
ENGINEERS  
Bala Controls and Engineers, Inc.  
200 Main Street, Suite 200  
Boston, MA 02101  
Tel: 617.552.1100  
Fax: 617.552.1101  
www.bala-engineers.com

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



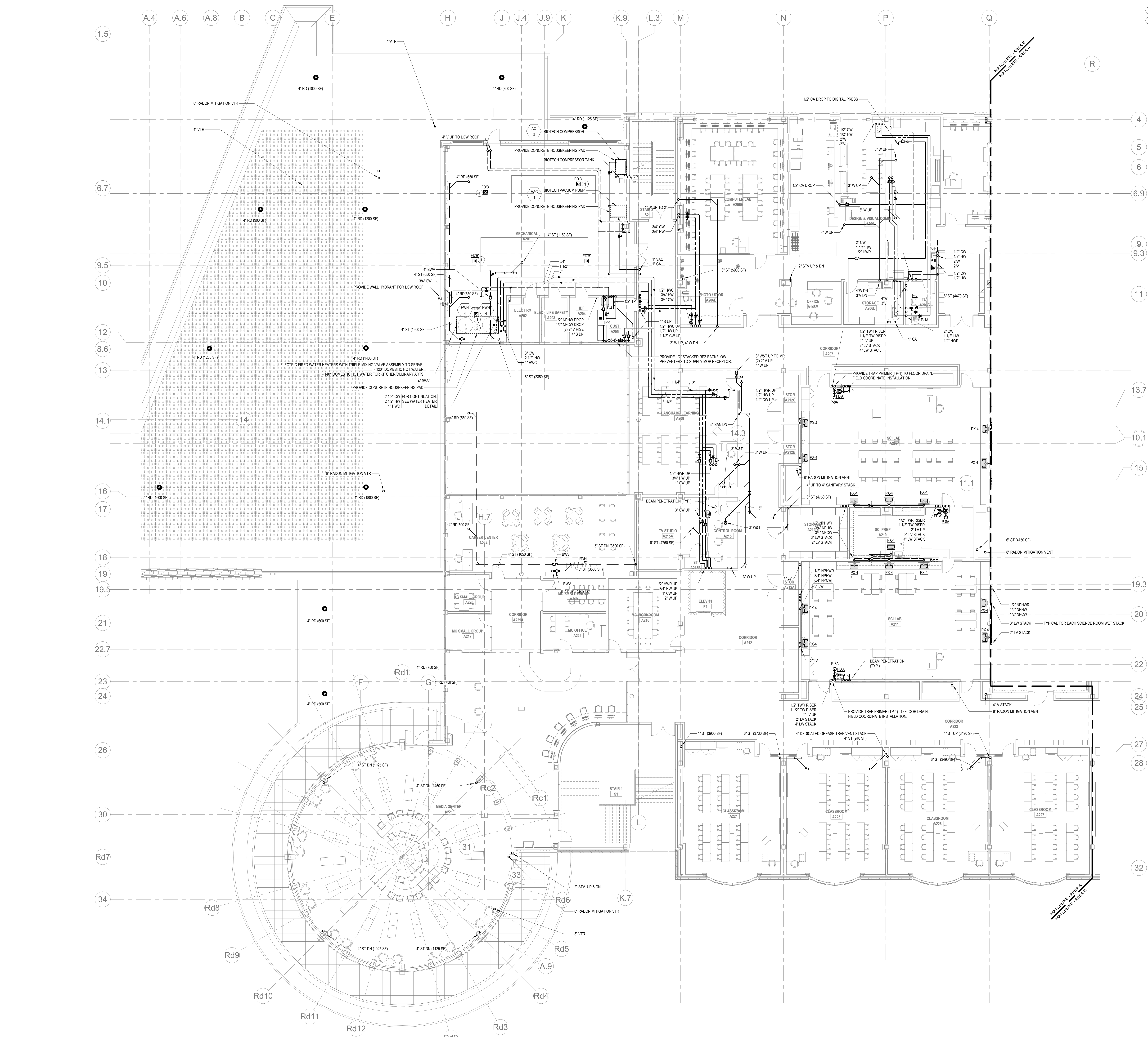
**PLUMBING FIRST  
FLOOR PLAN -  
AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-1-ID**

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





- KEYNOTES:
- 1 PROVIDE FLOOR DRAINS WITH TRAP GUARD.
  - 2 PROVIDE WALL ON CW LINE SERVING AREA A WATER HEATERS.

**DRA**

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

260 Charles Street  
Studio 300  
Waltham, MA  
02453

Planning | Architecture | Interior Design

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

**BALA**  
ENGINEERS

BALA CONSULTING ENGINEERS, INC.  
300 WEST 10TH STREET  
SUITE 200  
DENVER, CO 80202  
TEL: 303.733.8800 FAX: 303.733.8801  
WWW.BALA-ENGINEERS.COM

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

**KEY PLAN**

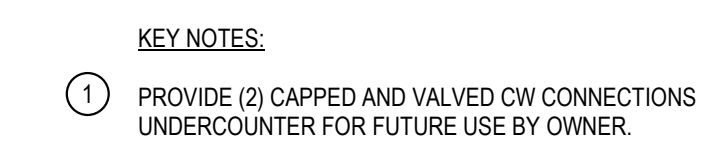
PROJECT NORTH  
MAGNETIC NORTH

**PLUMBING  
SECOND FLOOR  
PLAN - AREA A**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-1-2A**





**Drummey Rosane Anderson, Inc.**

225 Oakland Road Studio 205 South Windsor, CT 06074	260 Charles Street Studio 300 Waltham, MA 02453
--	--

**Planning | Architecture | Interior Design**

Tel: 617.964.1700  
[www.draaes.com](http://www.draaes.com)

Wakefield, MA 01880

**P1-1-2B**

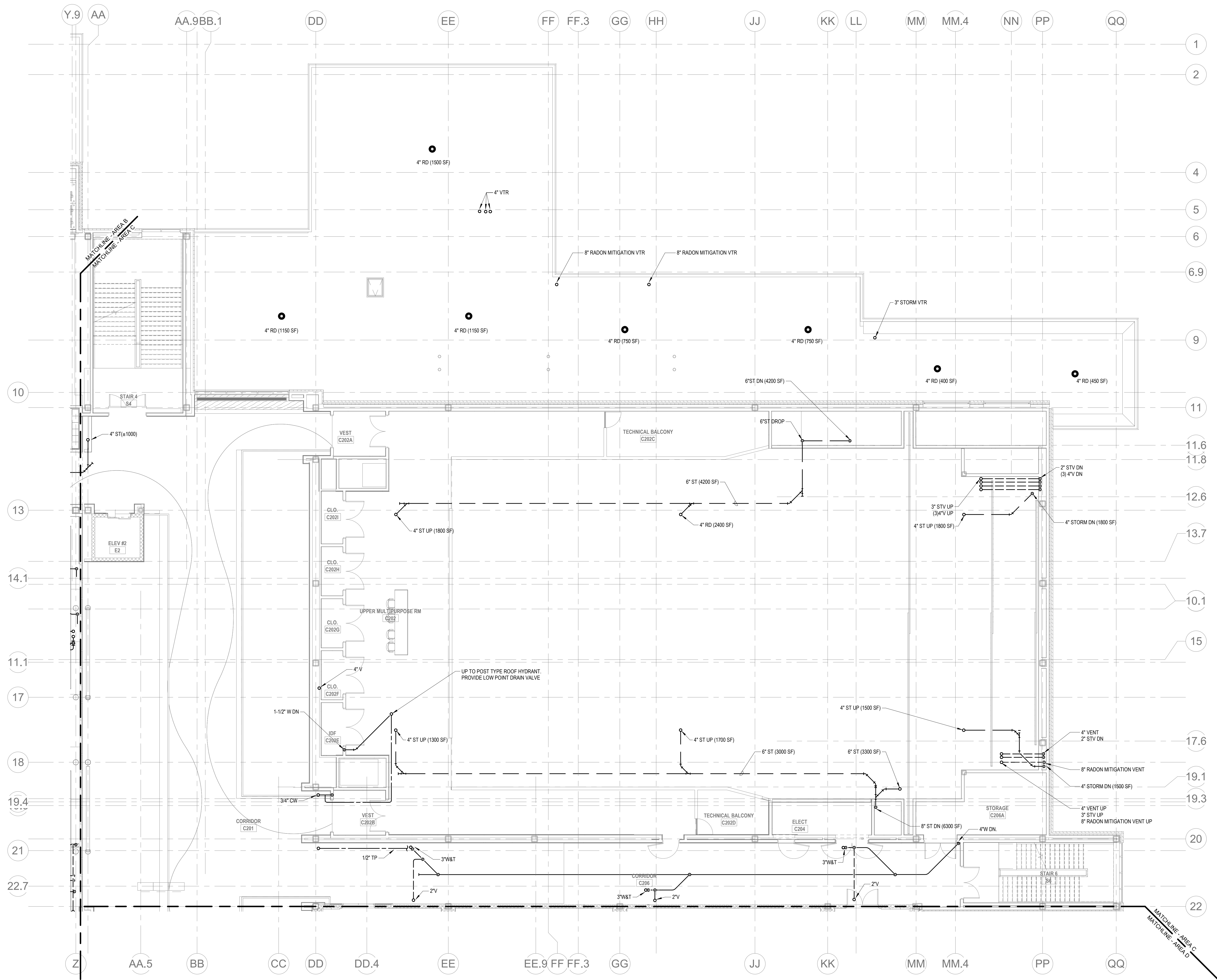


DRA

Drumme Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra-inc.com

Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

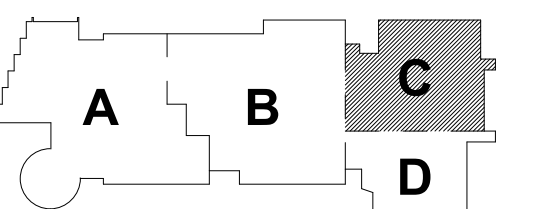


1 PLUMBING Level 2 Area C  
1/8" = 1'-0"

© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

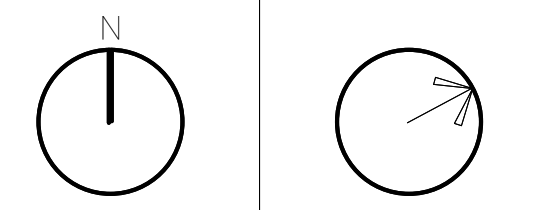
BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



PLUMBING  
SECOND FLOOR  
PLAN - AREA C

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

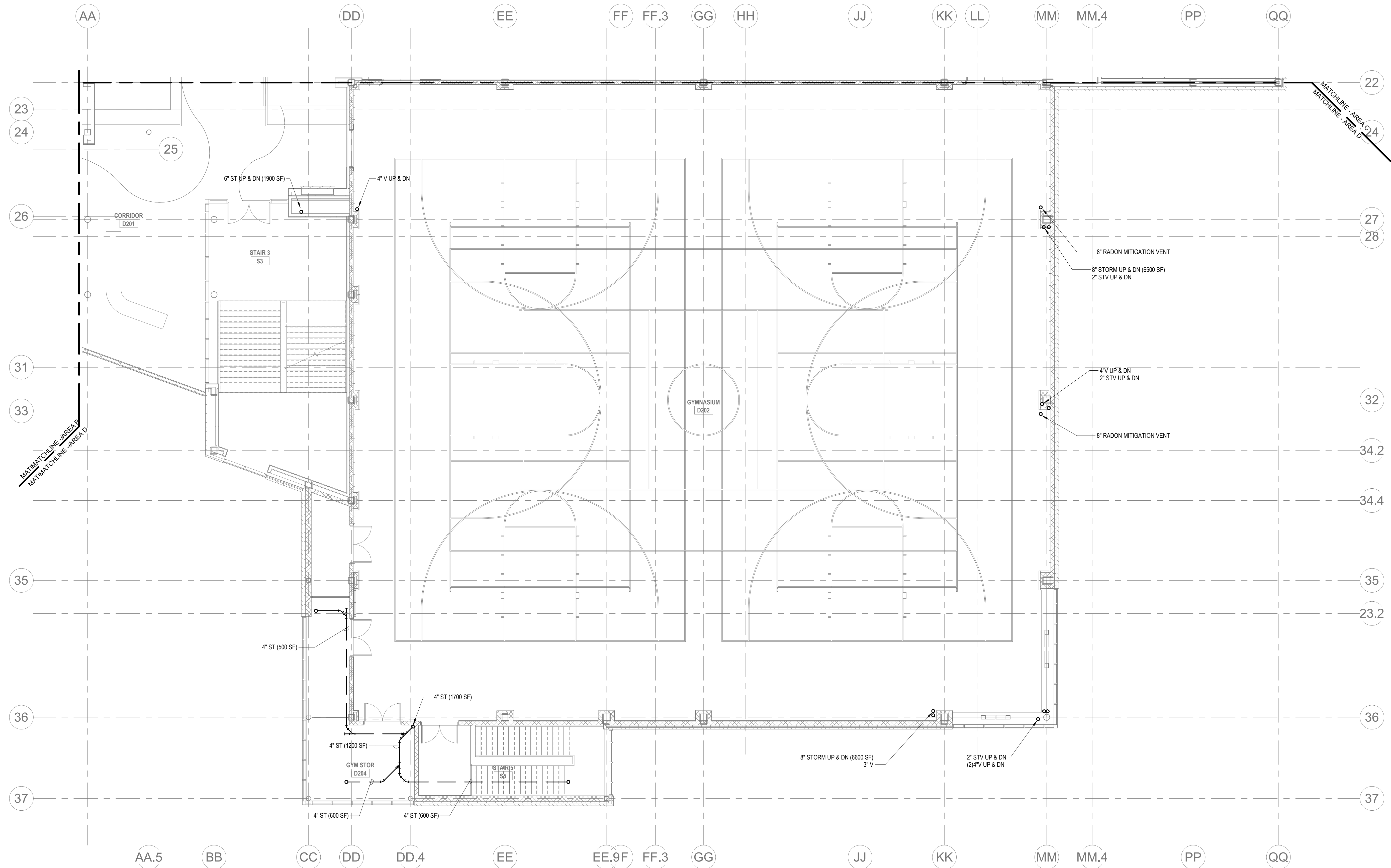
P1-1-2C

DRA

Drumme Rose Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
Planning | Architecture | Interior Design  
Tel: 817.984.1700  
www.draan.com

Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

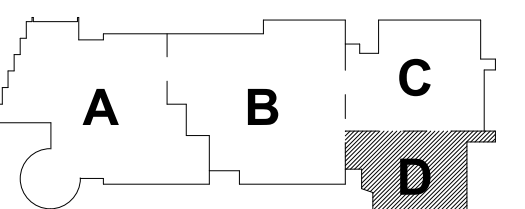


1 PLUMBING Level 2 Area D  
1/8" = 1'-0"

© COPYRIGHT 2021 DRUMME ROSE ANDERSON, INC.

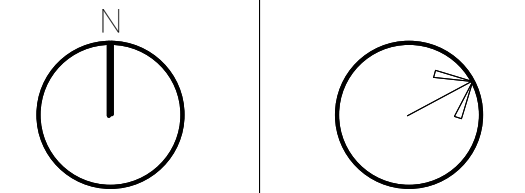
BALA  
ENGINEERS  
BALA CONSULTING ENGINEERS, INC.  
200 WEST 10TH STREET  
SUITE 200  
DALLAS, TEXAS 75201  
TEL: 214.742.1000 FAX: 214.742.1001  
WWW.BALA-ENG.COM

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



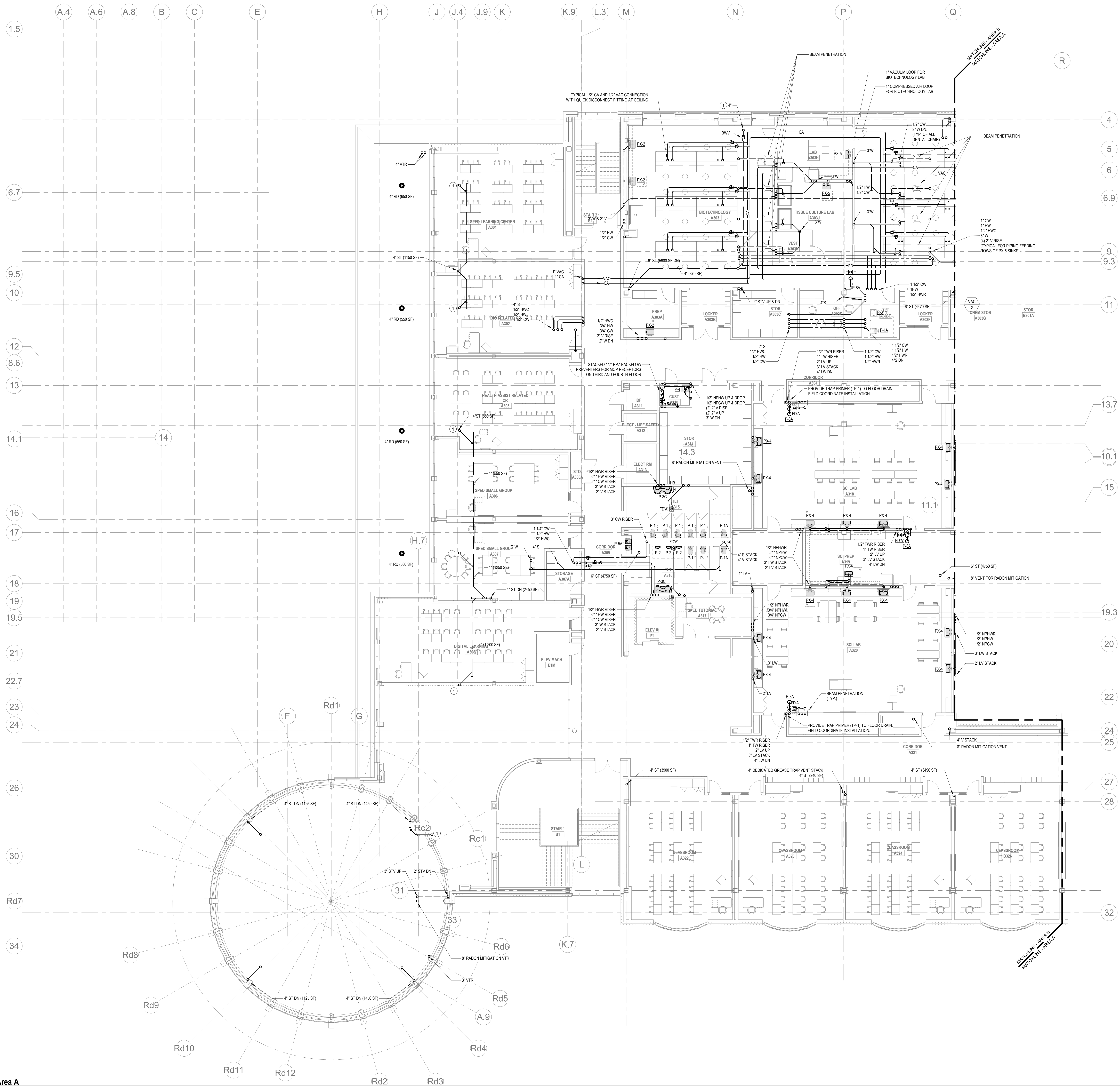
PLUMBING  
SECOND FLOOR  
PLAN - AREA D

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-2D



KEY NOTES:  
1 ST UP TO SD ABOVE



DRA

Drummet 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

© COPYRIGHT 2021 DRUMMET ROSANE ANDERSON, INC.

BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

KEY PLAN

PROJECT NORTH  
MAGNETIC NORTH

PLUMBING  
THIRD FLOOR  
PLAN - AREA A

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023  
P1-1-3A

DRA

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

280 Charles Street  
Studio 300  
Waltham, MA  
02453

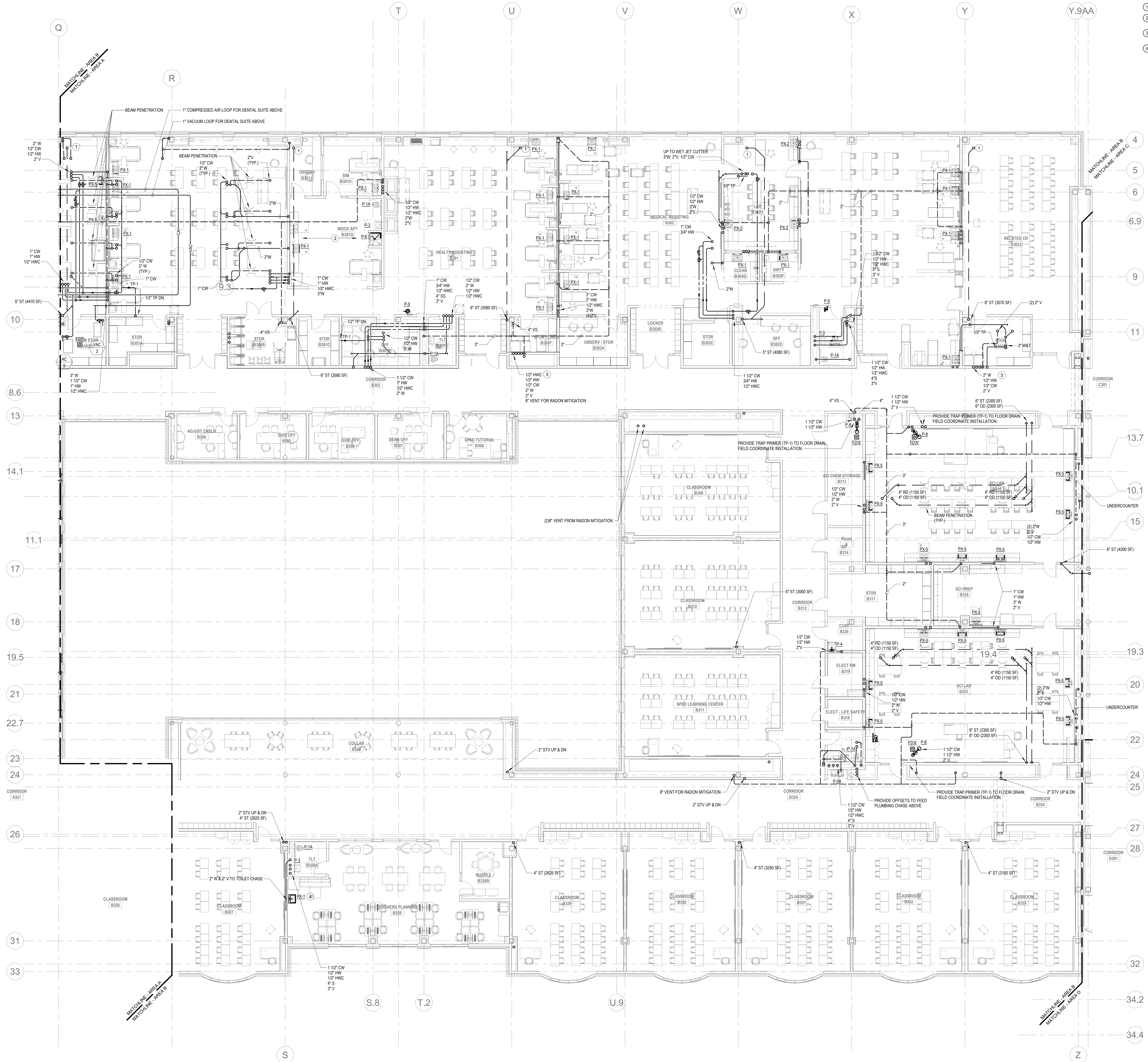
Planning | Architecture | Interior Design

**Northeast  
Metropolitan  
Regional  
Vocational High School**

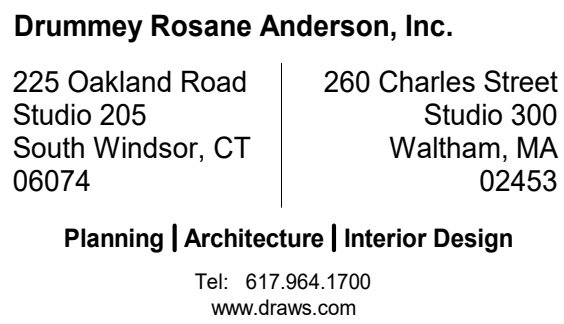
Wakefield, MA 01880

KEY NOTES:

- 4" RL UP TO 4" RD ABOVE.
- PLUMBING FIXTURES IN MOCK APARTMENT SHALL NOT RECEIVE WATER OR WASTE PIPING.
- PROVIDE WASHING MACHINE BOX TO RECEIVE CW, HW, WASTE, AND VENT CONNECTIONS FOR WASHING MACHINE.
- PROVIDE (2) CAPPED AND VALVED CW CONNECTIONS UNDERCOUNTER FOR FUTURE USE BY OWNER.







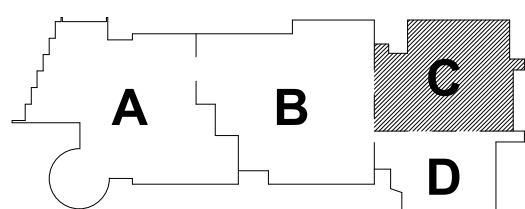
Wakefield, MA 01880



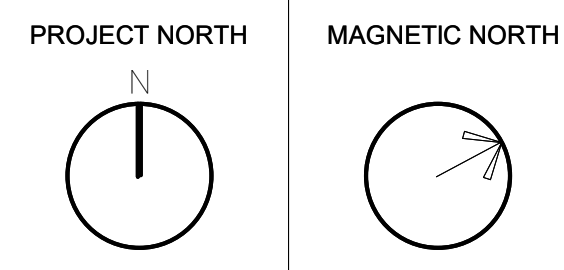
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

**BALA**  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



## KEY PLAN



Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

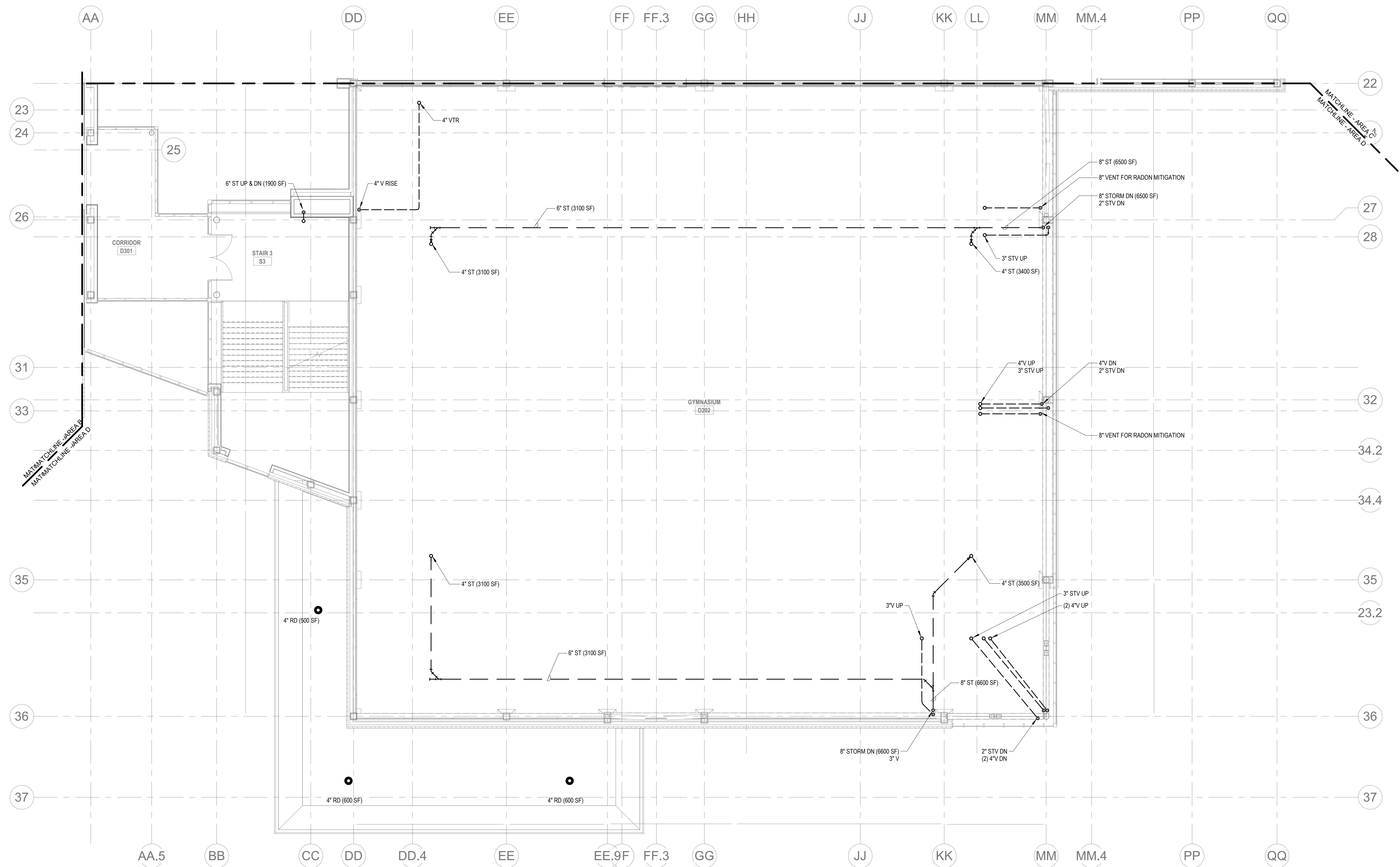
**P1-1-3C**

DRA

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

Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

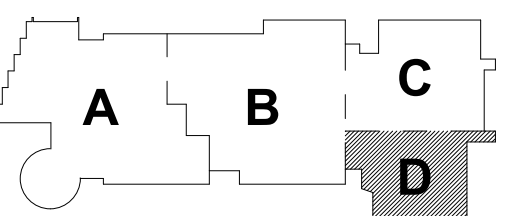


PLUMBING Level 3 Area D  
1/8" = 1'-0"

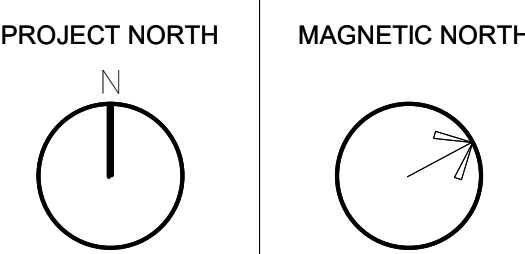
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



PLUMBING  
THIRD FLOOR  
PLAN - AREA D

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-3D



- KEY NOTES:
1. PROVIDE EMERGENCY MIXING VALVE ABOVE CEILING TO PROVIDE TEMPERED WATER TO EMERGENCY EYEWASH.
  2. 3" TERRACE DRAIN SHALL GRATE SHALL BE FLUSH WITH PAVERS. 3" STORM FROM TERRACE DRAIN SHALL TIE INTO STORM SYSTEM.
  3. ST UP TO SD ABOVE
  4. ST UP TO RD ABOVE
  5. PROVIDE (2) CAPPED AND VALVED CW CONNECTIONS UNDERCOUNTER FOR FUTURE USE BY OWNER.

DRA

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

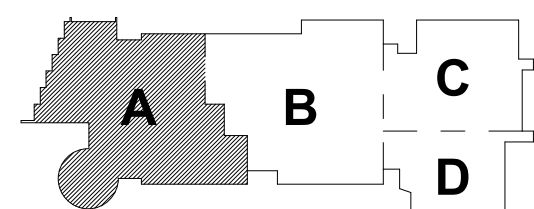
Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

© COPYRIGHT 2021 DRUMMAY ROSANE ANDERSON, INC.

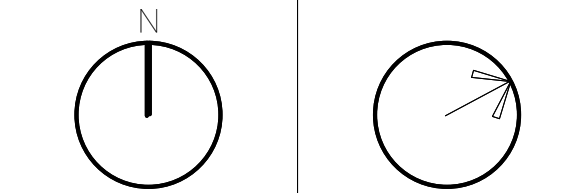
BALA  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



PLUMBING  
FOURTH FLOOR  
PLAN - AREA A

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-4A







Drumme Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra-inc.com

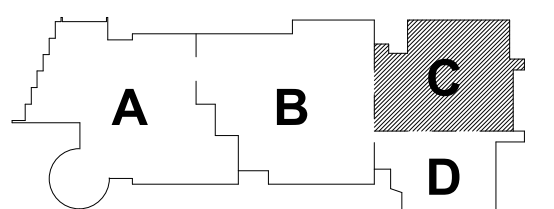
**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

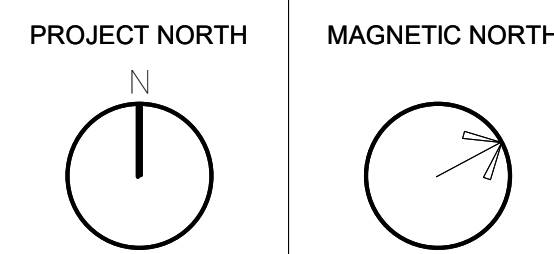
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

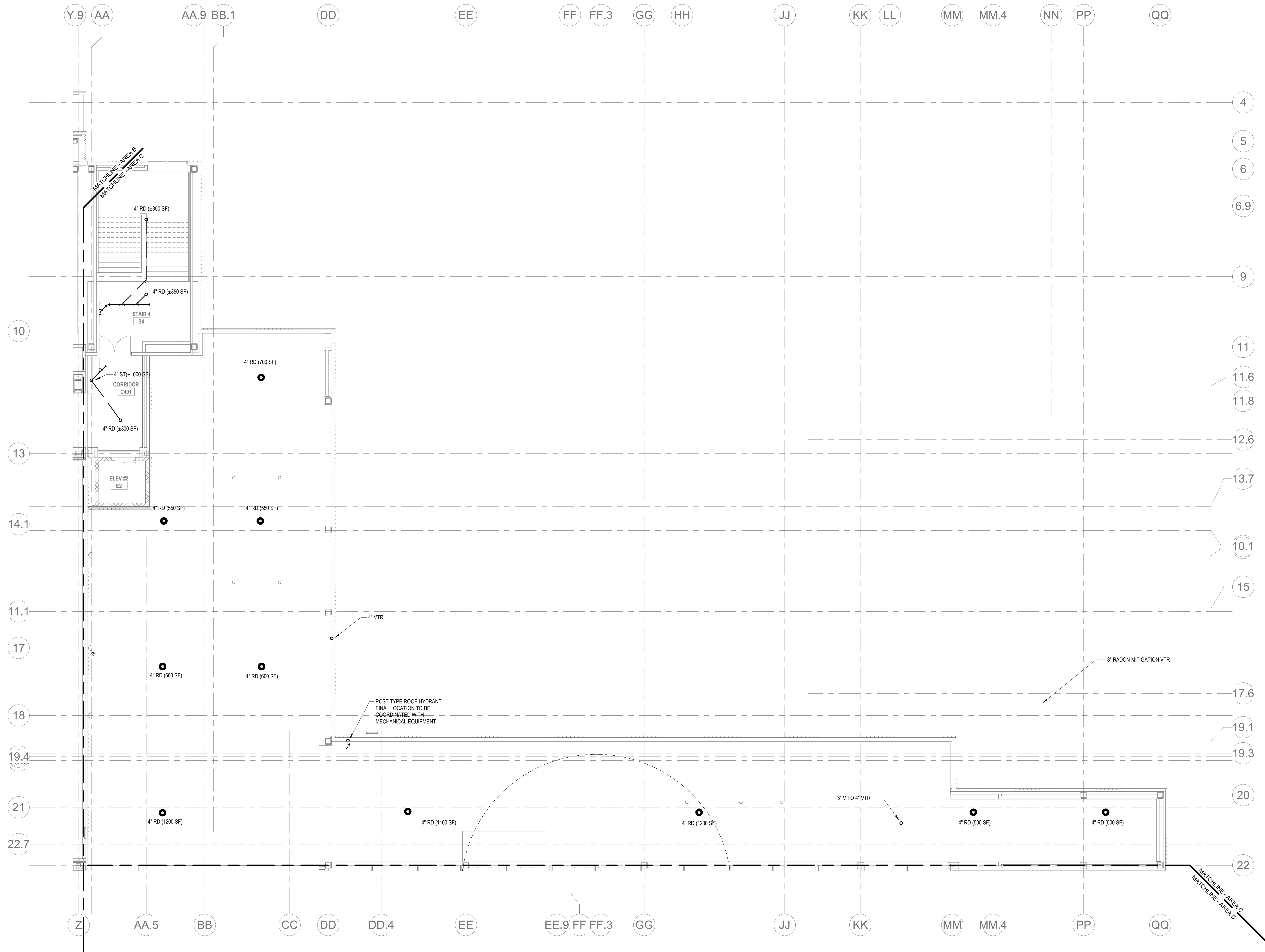


KEY PLAN



**PLUMBING  
FOURTH FLOOR  
PLAN - AREA C**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023  
**P1-1-4C**



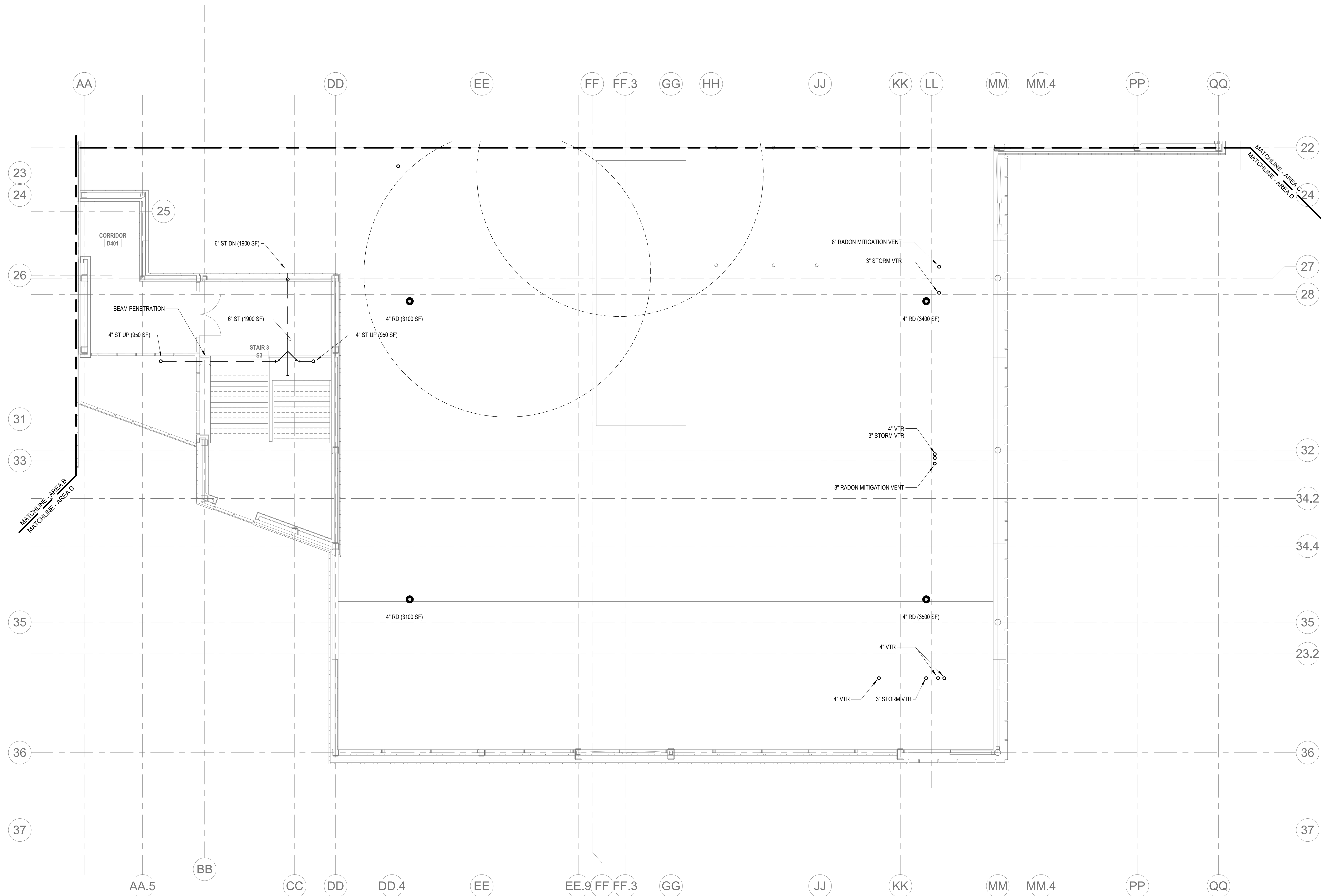
**PLUMBING Level 4 Area C**  
1/8" = 1'-0"



DrummeY Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra.com

Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

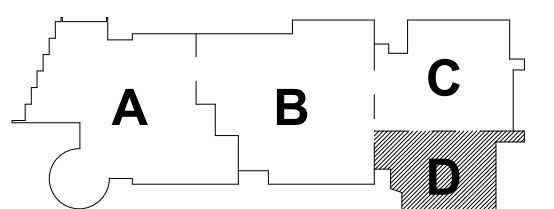


1 PLUMBING Level 4 Area D  
P1-1-4D 1/8" = 1'-0"

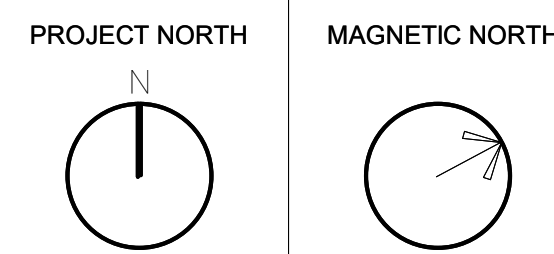
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



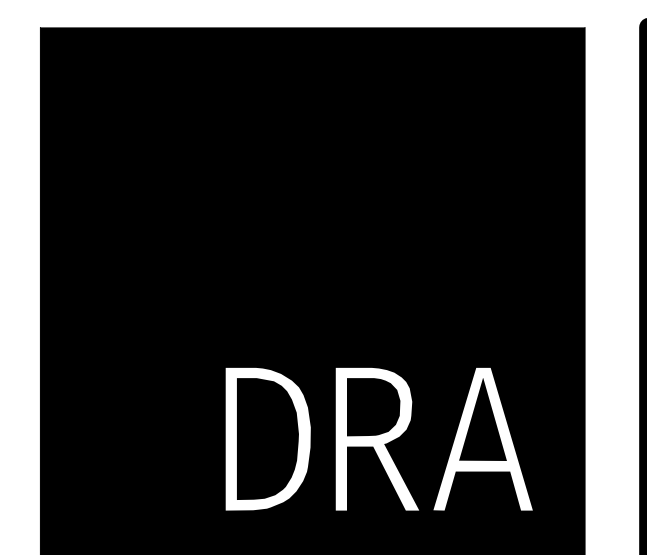
PLUMBING  
FOURTH FLOOR  
PLAN - AREA D

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

P1-1-4D



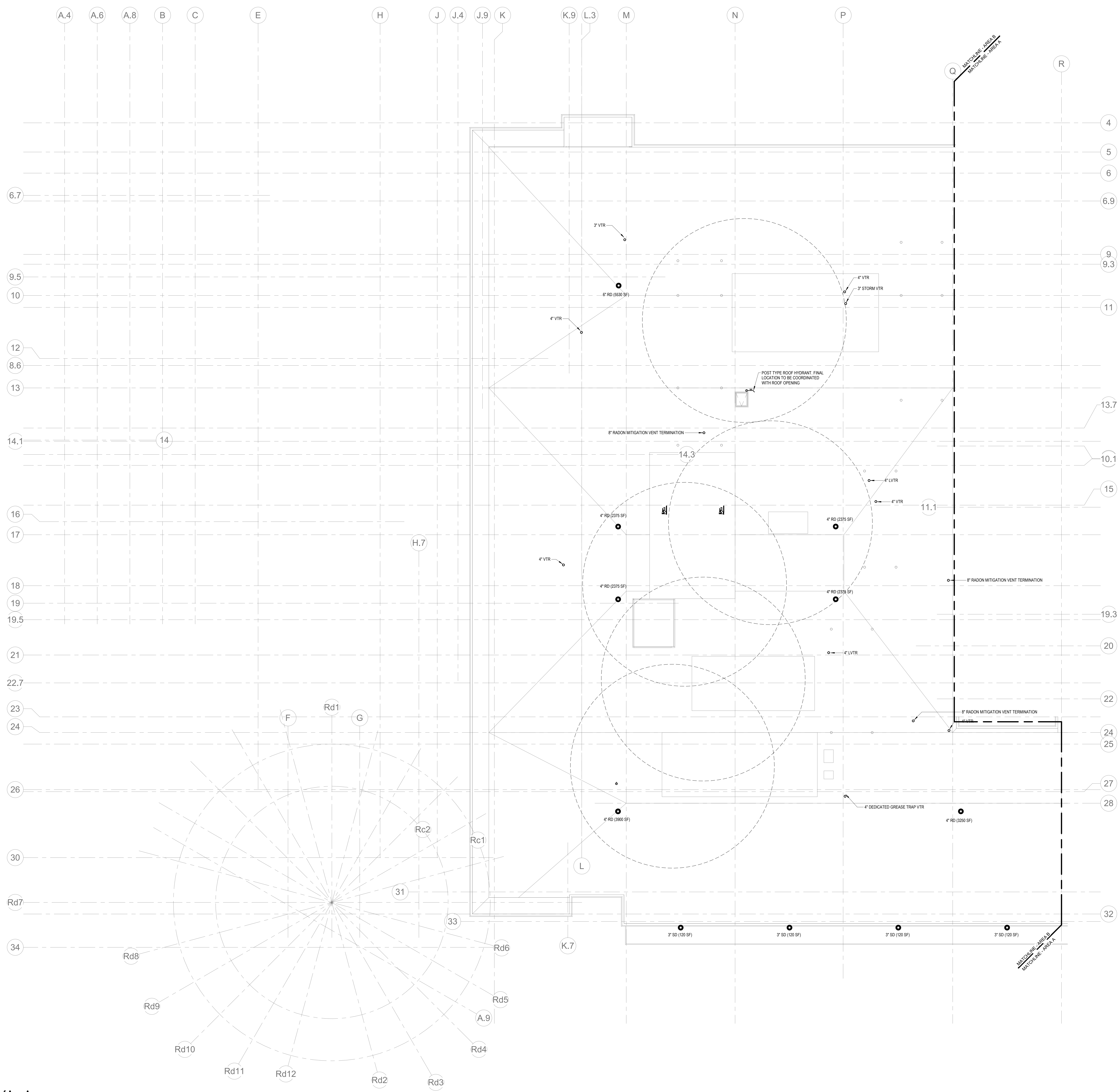
SCOPE NOTES:  
SECONDARY ROOF DRAINAGE IS NOT REQUIRED ON THE BASIS THAT THE  
ROOF STRUCTURE IS CAPABLE OF HANDLING THE MAXIMUM PONDING.  
KEY NOTES:  
1 PROVIDE (5) SCUPPER TYPE DRAINS AT LOW ROOF. PROVIDE AN ALLOWANCE  
OF 200 FEET OF STORM PIPING TO CONNECT TO STORM SYSTEM WITHIN  
BUILDING.



Drumme Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra-inc.com

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

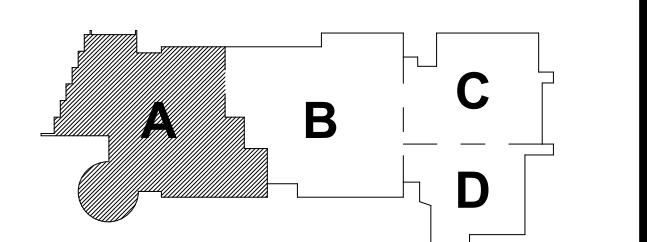
Wakefield, MA 01880



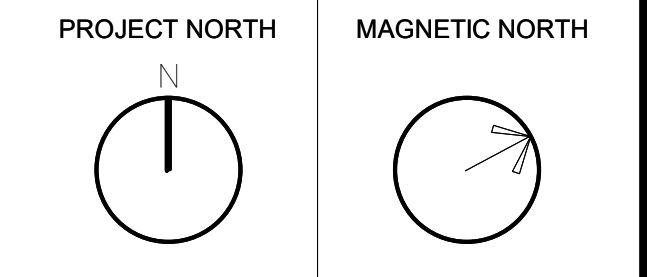
© COPYRIGHT 2021 DRUMME ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

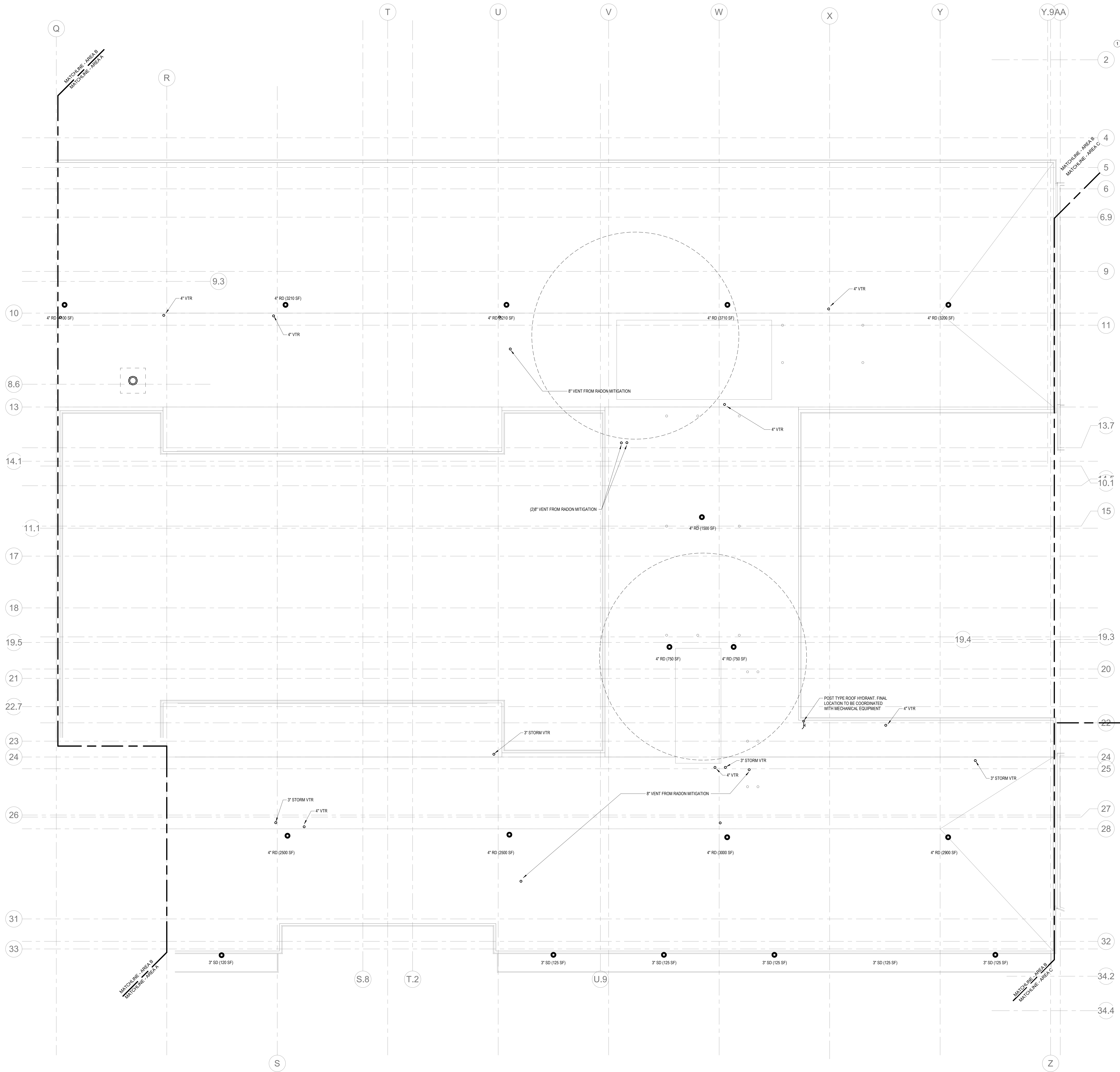


KEY PLAN



**PLUMBING ROOF  
PLAN - AREA A**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 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.



Drumme Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT 06074  
Tel: 617-984-1700  
www.dra-inc.com

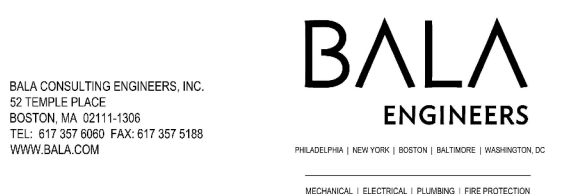
280 Charles Street  
Studio 300  
Waltham, MA 02453

Planning | Architecture | Interior Design

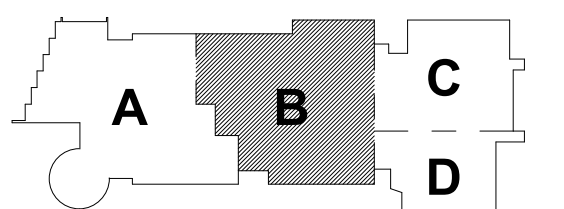
**Northeast  
Metropolitan  
Regional  
Vocational High School**

Wakefield, MA 01880

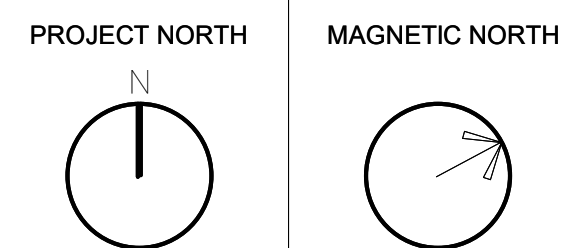
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



**PLUMBING ROOF  
PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-2-1B**



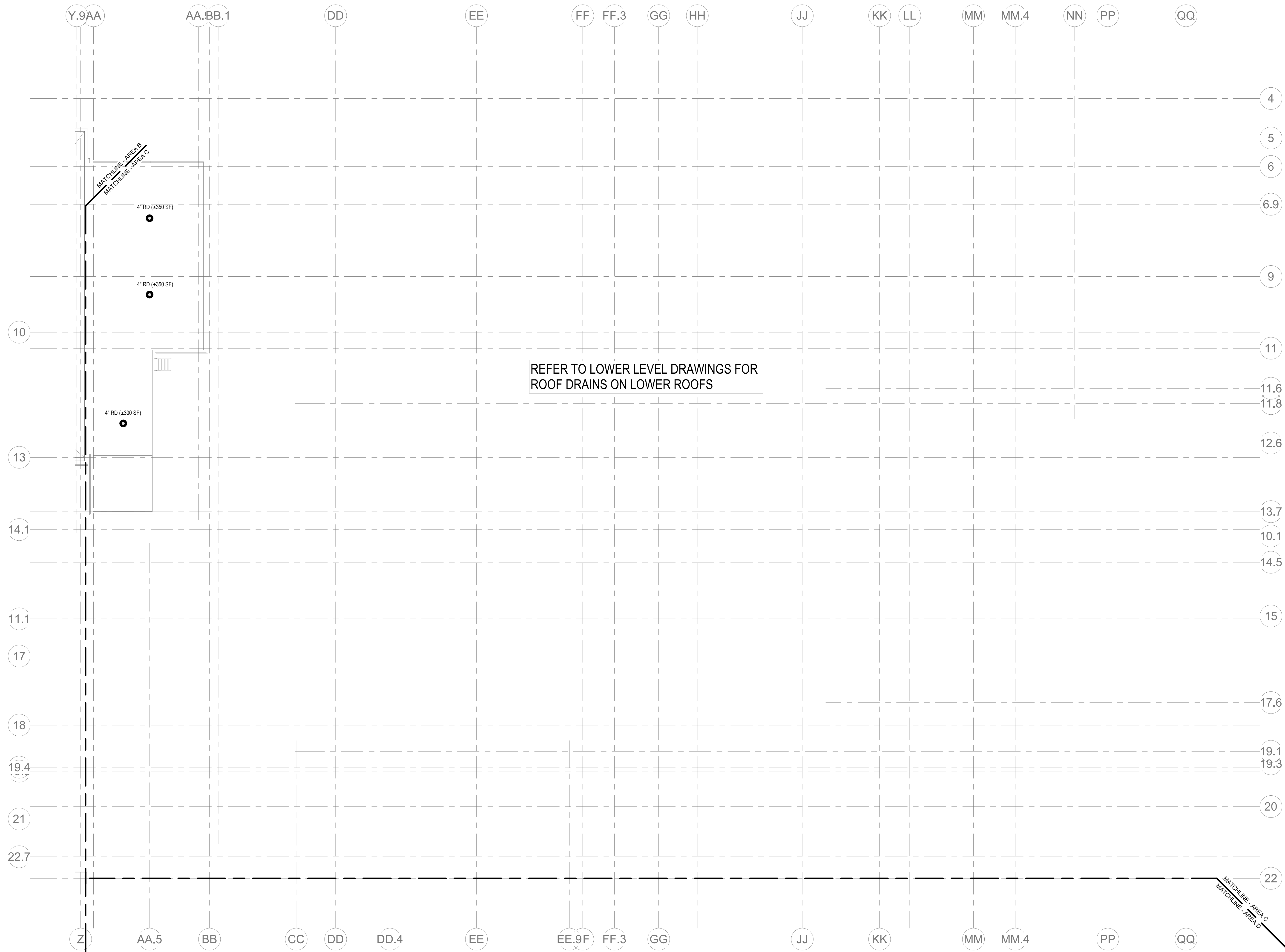
SCOPE NOTES:  
SECONDARY ROOF DRAINAGE IS NOT REQUIRED ON THE BASIS THAT THE  
ROOF STRUCTURE IS CAPABLE OF HANDLING THE MAXIMUM PONDING.



Drummeey Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.draa.com

Northeast  
Metropolitan  
Regional  
Vocational High  
School

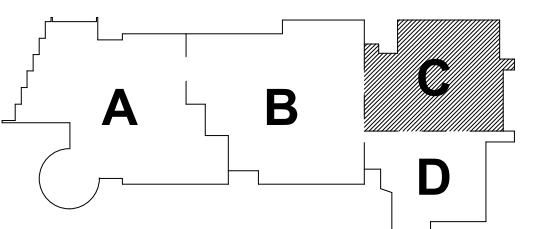
Wakefield, MA 01880



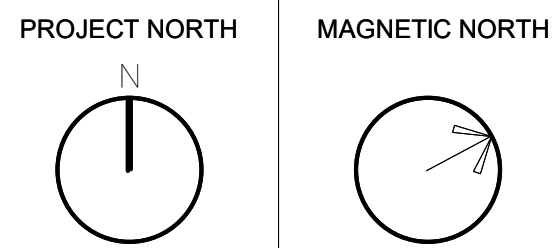
© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.



MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



KEY PLAN



PLUMBING ROOF  
PLAN - AREA C

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

Job No.: 60-20-409

Drawn By: Author

Date: May 12th, 2023

P1-2-1C

**DRA**

**Drumme y Rosane Anderson, Inc.**

225 Oakland Road Studio 205 South Windsor, CT 06074	260 Charles Street Studio 300 Waltham, MA 02453
--	--

**Planning | Architecture | Interior Design**

Tel: 817.964.1120  
[www.dra-inc.com](http://www.dra-inc.com)

Wakefield, MA 01880



A diagram of a building layout with four rooms labeled A, B, C, and D. Room D is shaded gray.

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023

**P1-2-1D**

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



**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

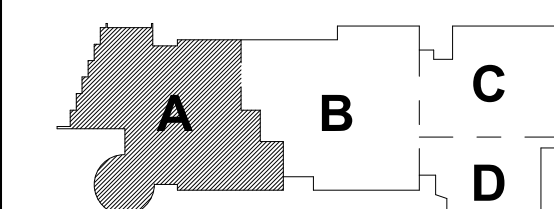


- | KEY NOTES: |   |
|------------|---|
| 1          | 3"KW & T  |
| 2          | 3" W&T  |
| 3          | 4"KW UP TO FCD  |
| 4          | 4"V UP TO FCD   |
| 5          | 2"V UP  |
| 6          | 4"V UP  |
| 7          | 2"V UP  |
| 8          | 4"V UP  |
| 9          | 4"KW UP   |
| 10         | 3"KW UP   |
| 11         | 1/2"HWCU UP   |
| 12         | 1/2"HW UP   |
| 13         | 6"ST UP   |
| 14         | GREASE TRAP IN PIT<br>DIMENSIONS 23" x 35" x 14"<br>I.E. BOTTOM OF GREASE TRAP: 160.5'  |
| 15         | GREASE TRAP IN PIT<br>DIMENSIONS 23" x 35" x 14"<br>I.E. BOTTOM OF GREASE TRAP: 160.5'  |
| 16         | GREASE TRAP IN PIT<br>DIMENSIONS 28" x 37" x 21"<br>I.E. BOTTOM OF GREASE TRAP: 159.33' |
| 17         | GREASE TRAP IN PIT<br>DIMENSIONS 23" x 35" x 14"<br>I.E. BOTTOM OF GREASE TRAP: 160.5'  |

© COPYRIGHT 2004 DELIBERY DOONE AND PEARSON, INC.

BALA  
ENGINEERS

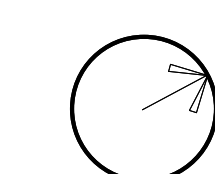
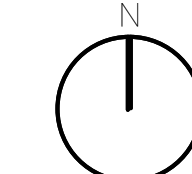
MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



### KEY PLANS

PROJECT NO.

MAGNETIC NORTH

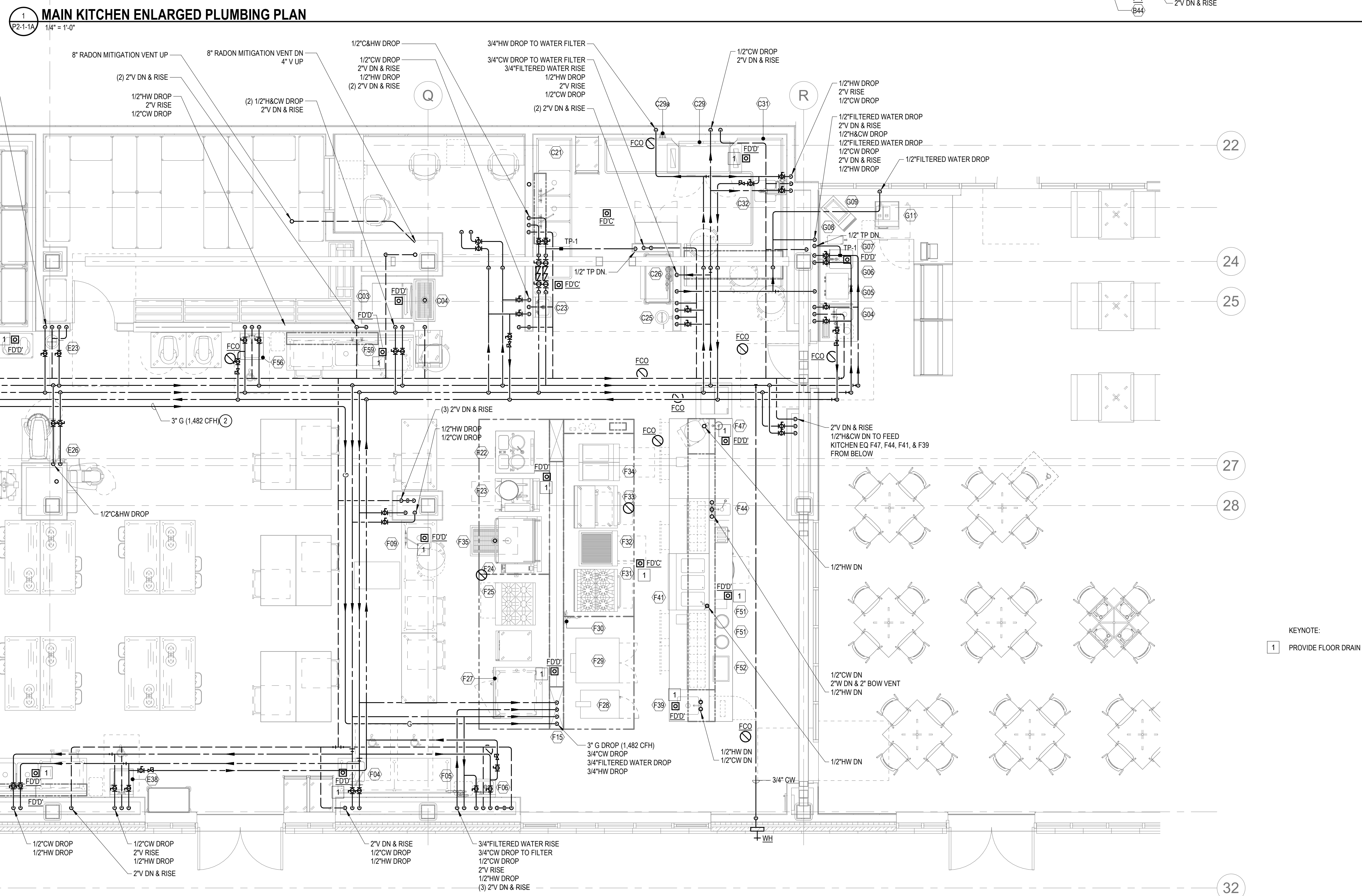


## PLUMBING BELOW FLOOR ENLARGED PLANS

Scale:  $1/4" = 1'-0"$   
Job No.: 60-20-40  
Drawn By: Author  
Date: May 12th, 2023

**P2-0-0A**

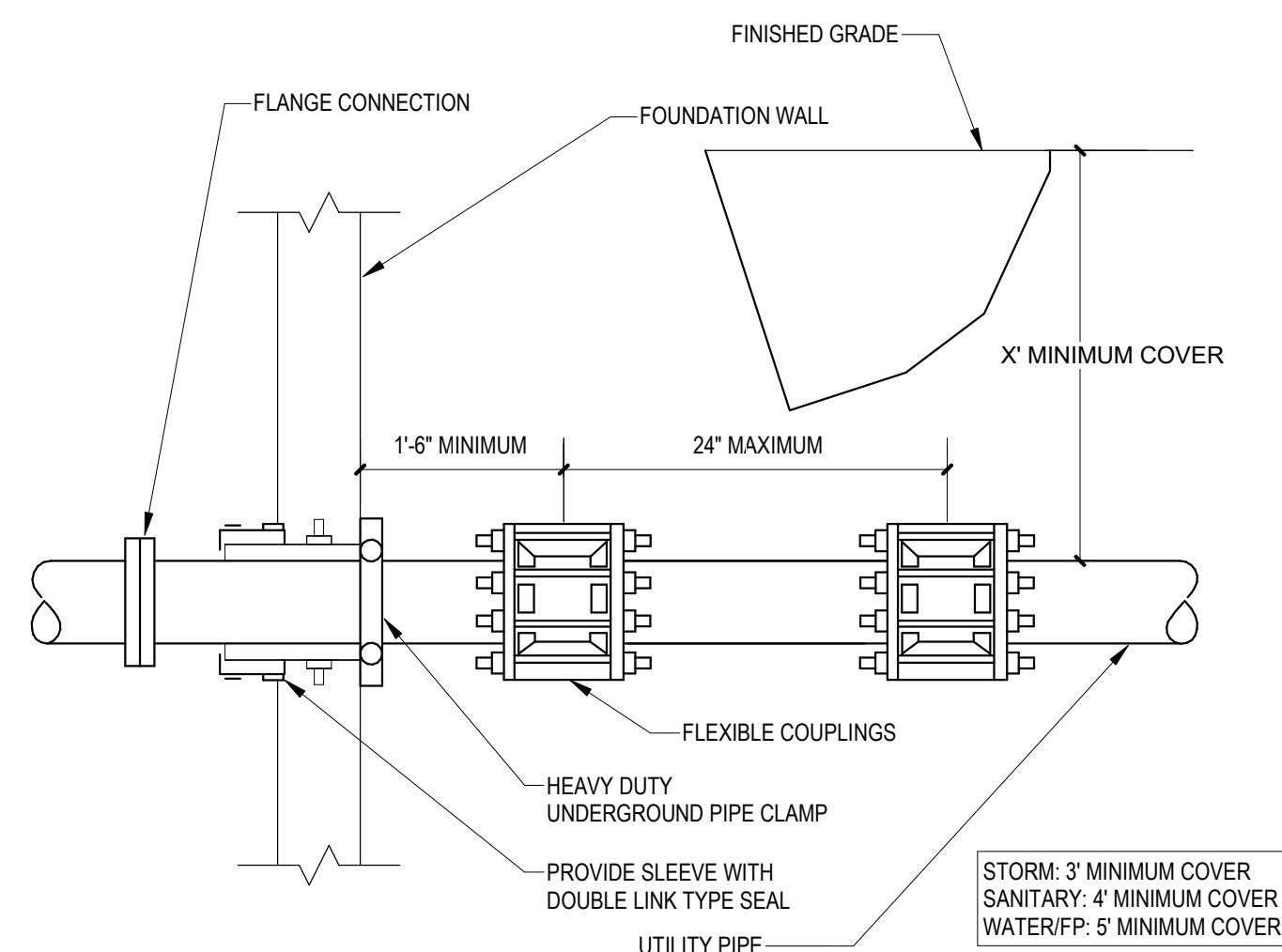






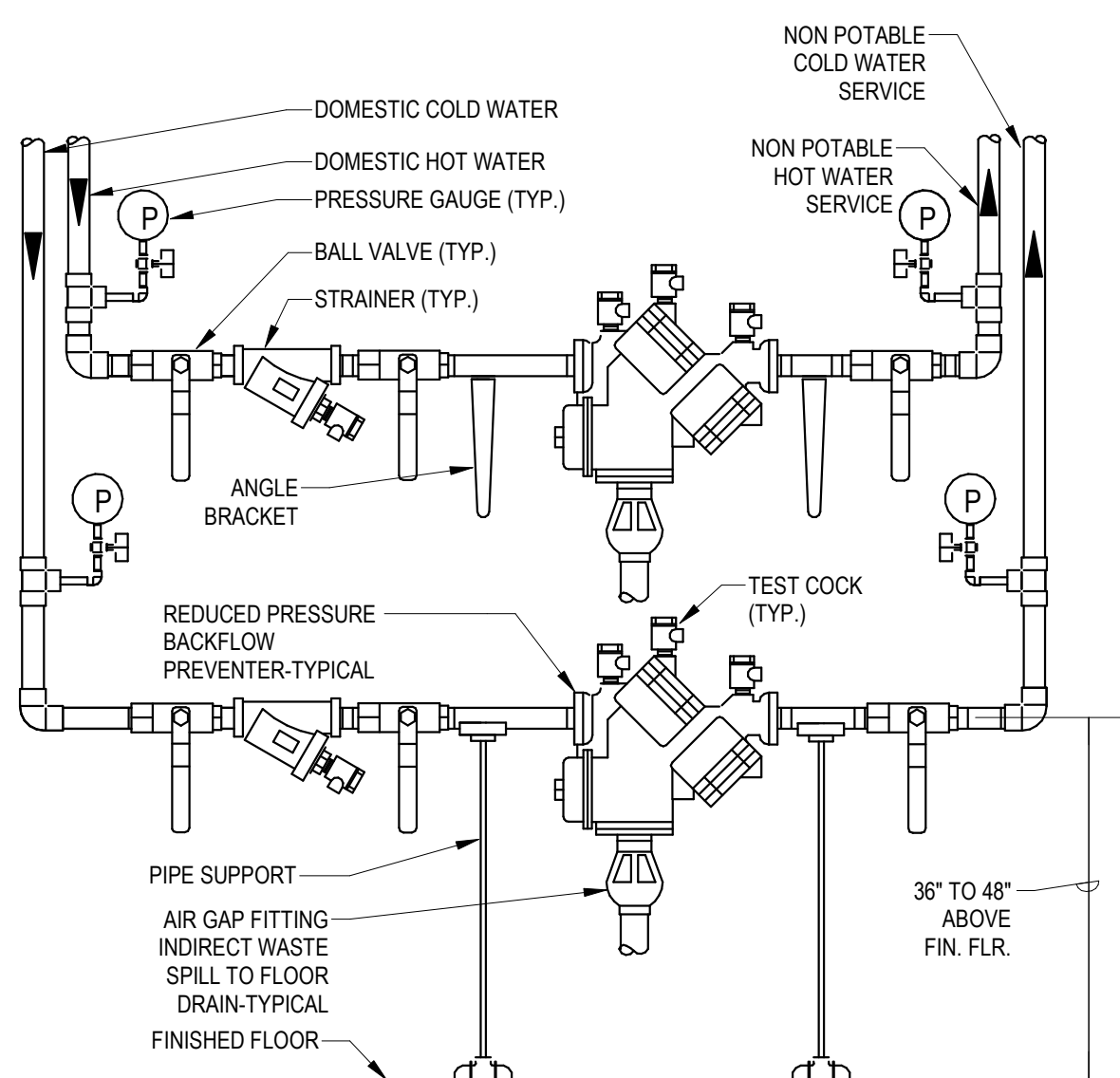
**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880



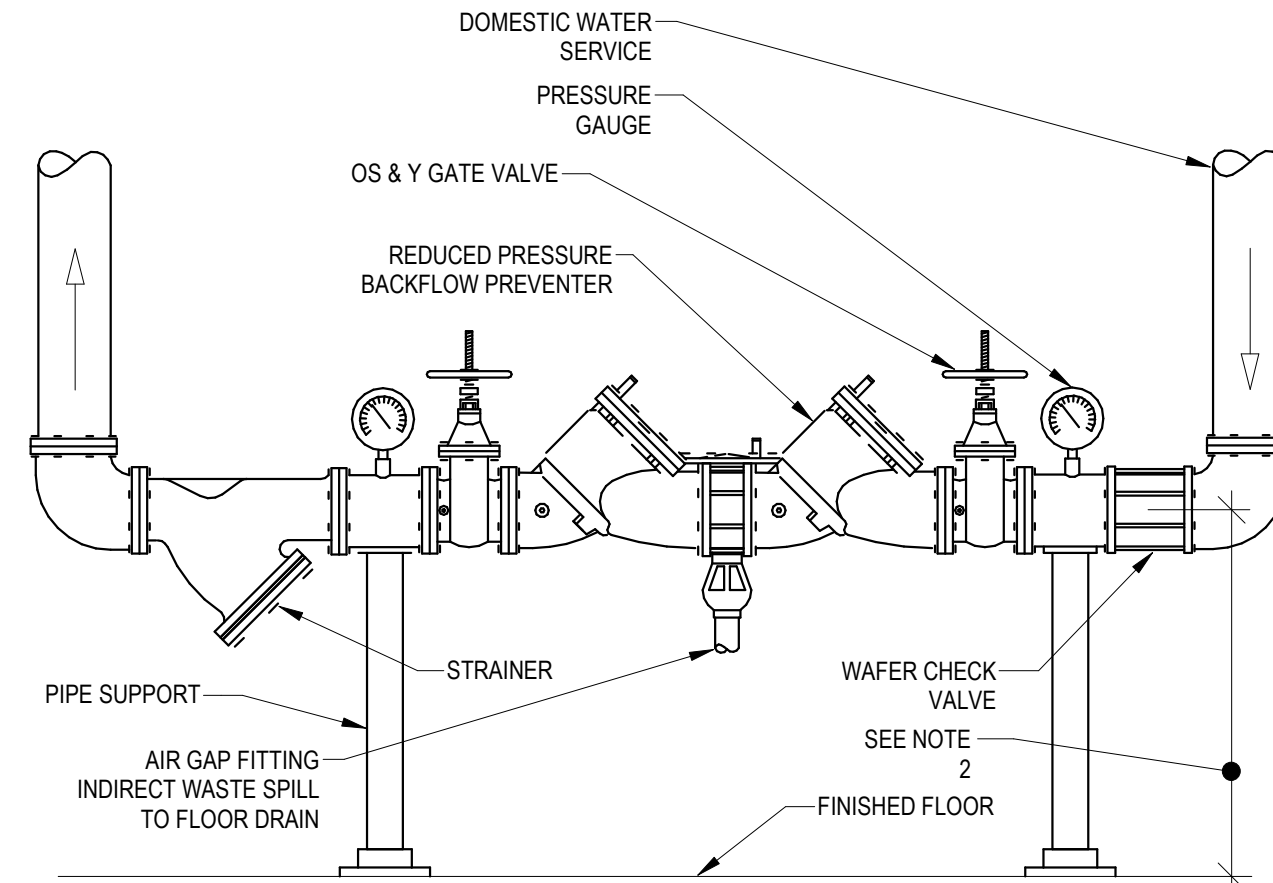
**1 PIPE PENETRATION THROUGH FOUNDATION WALL**

P3-0.1 N.T.S.



**2 STACKED REDUCED PRESSURE BACKFLOW PREVENTERS**

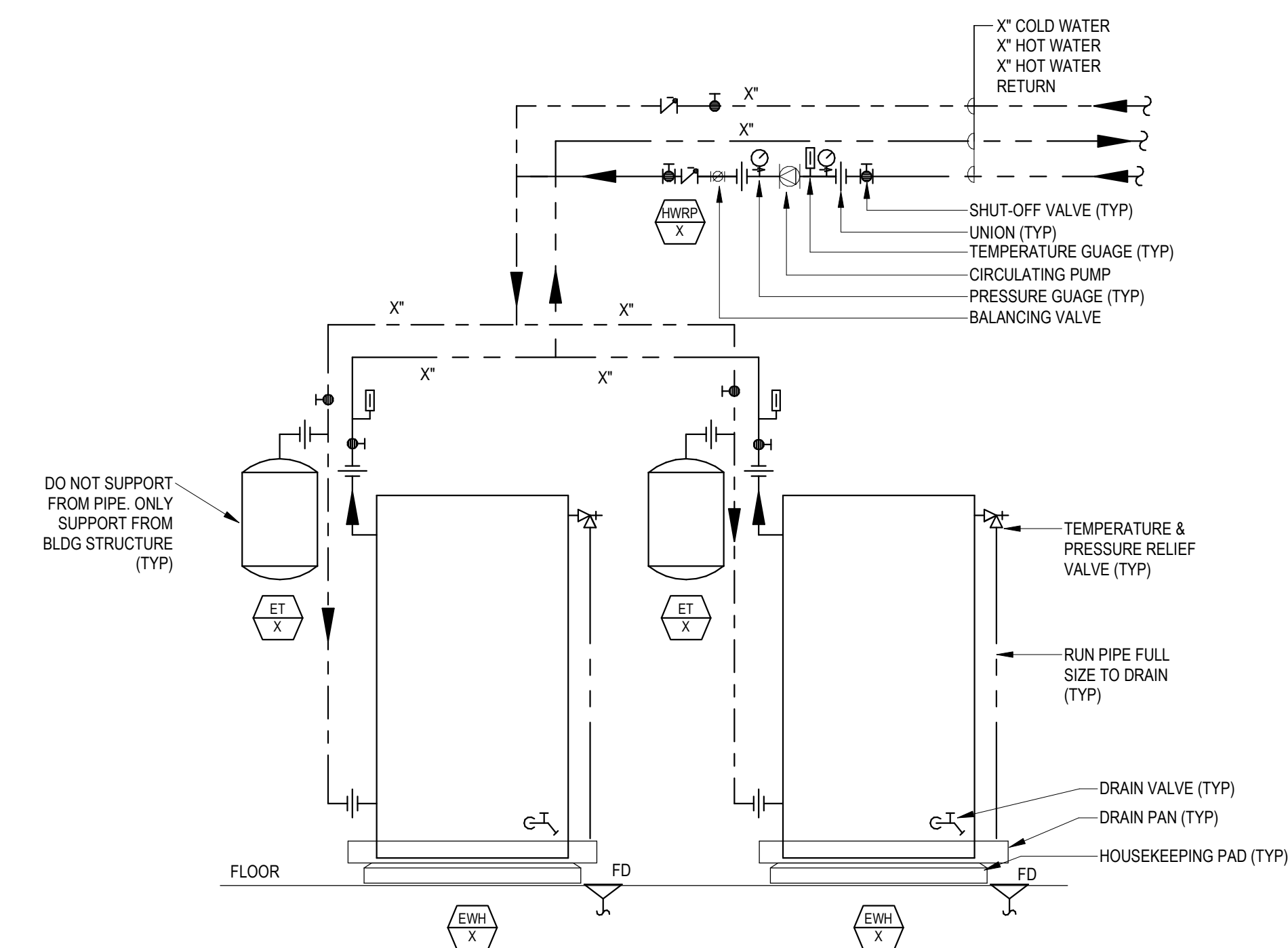
P3-0.1 N.T.S.



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

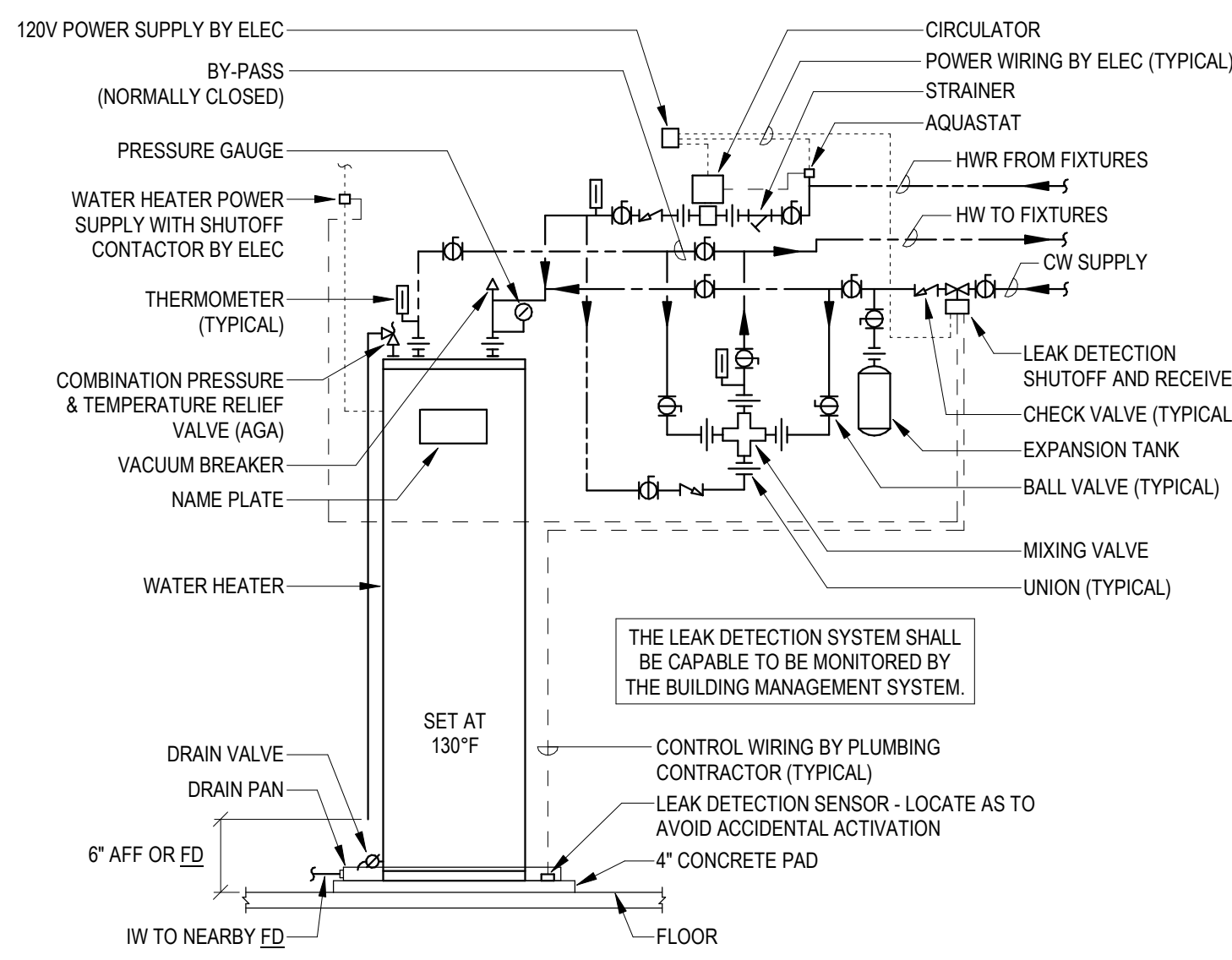
**3 REDUCED PRESSURE BACKFLOW PREVENTER (LARGE BFP)**

P3-0.1 N.T.S.



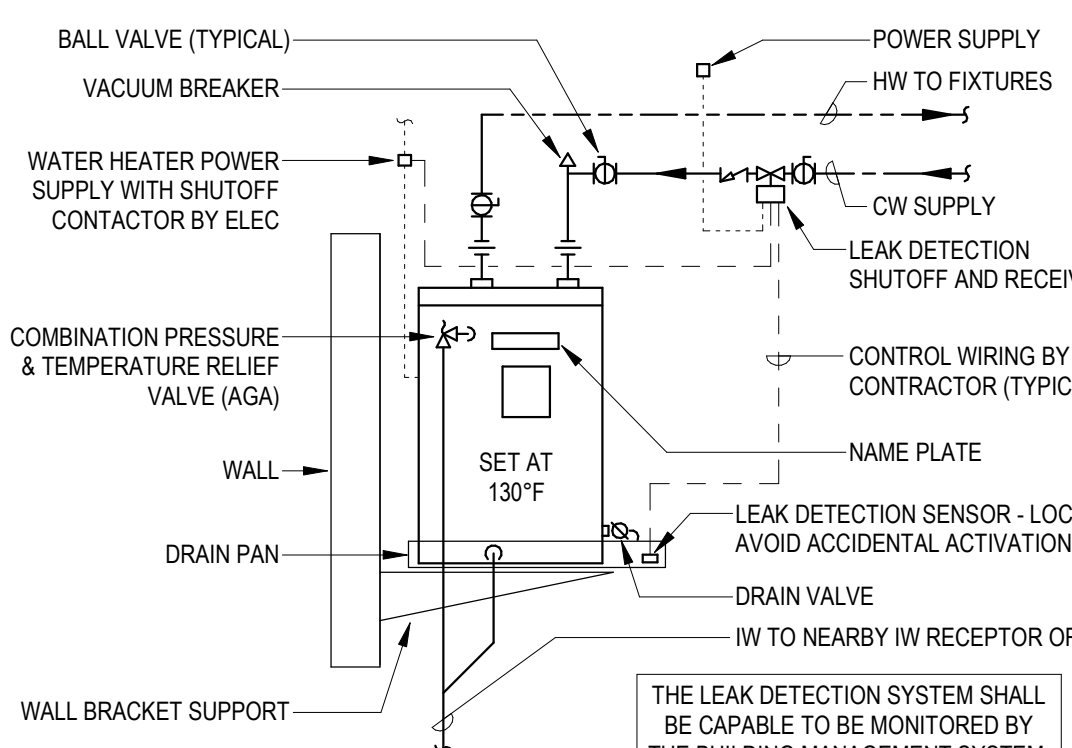
**4 ELECTRIC WATER HEATER PIPING DETAIL (DUPLEX)**

P3-0.1 N.T.S.



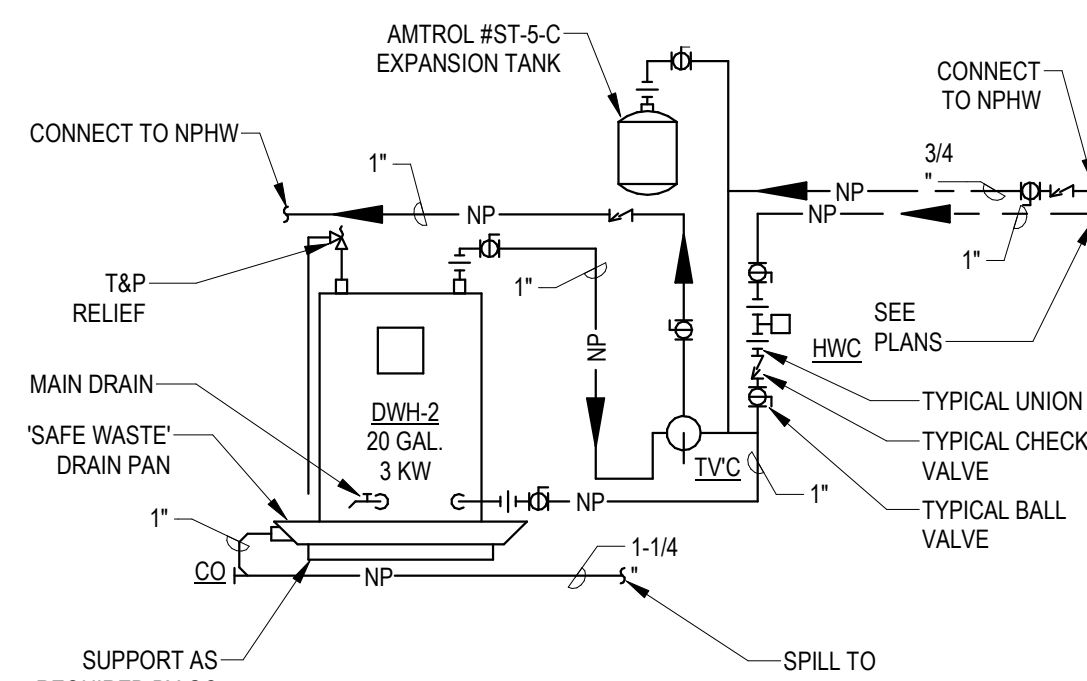
**5 ELECTRIC WATER HEATER - FLOOR MOUNTED (W/ CIRCULATION)**

P3-0.1 N.T.S.



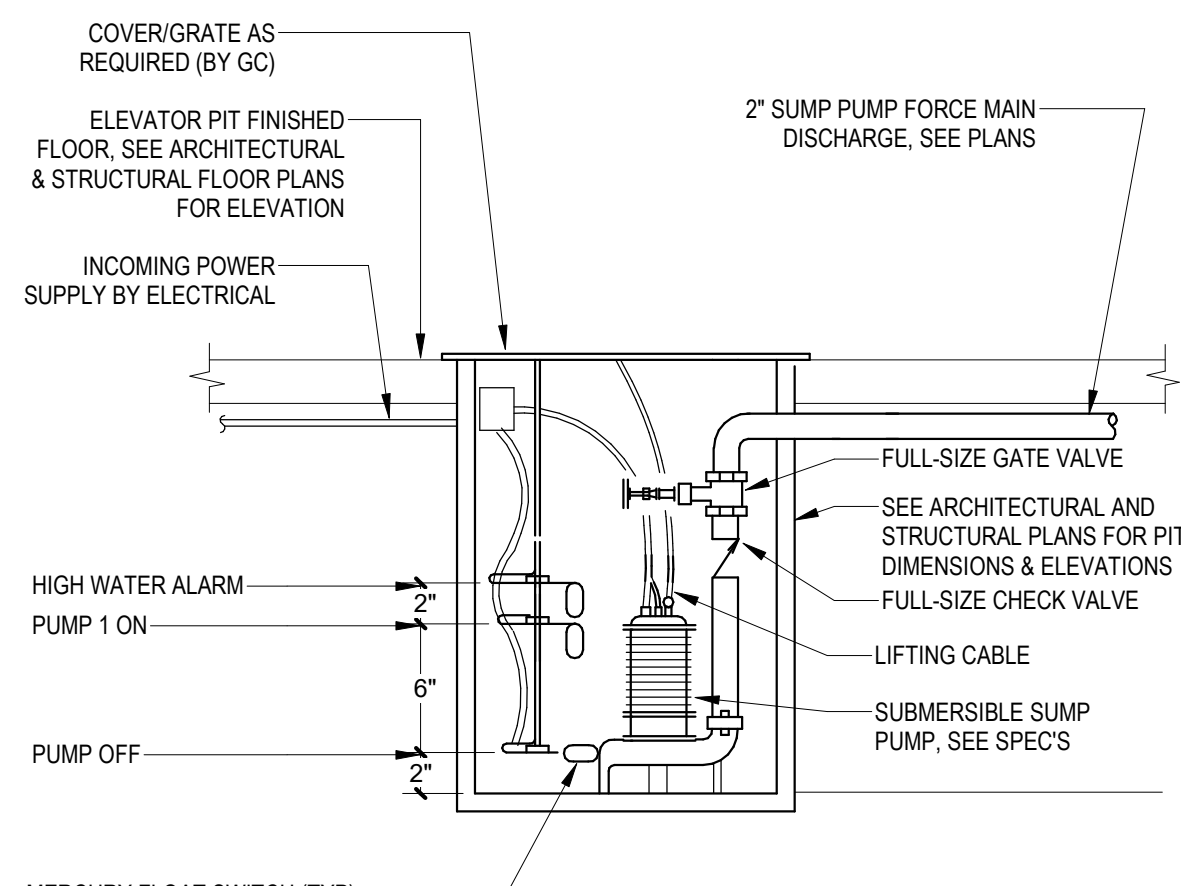
**6 ELECTRIC WATER HEATER - SUSPENDED**

P3-0.1 N.T.S.



**7 NPHW TEMPERATURE MAINTENANCE STATION**

P3-0.1 N.T.S.



**8 SIMPLEST ELEVATOR PIT SUMP PUMP**

P3-0.1 N.T.S.

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

PRE-CAST SEPARATORS ARE TO HAVE ALL SPECIFIED HOLES OTHER CORE-BORED OR CAST IN PLACE. CIRCULAR BASINS ARE RECOMMENDED. VERIFY NEW AND EXISTING INVERTS.

PROVIDE NEENAH FOUNDRY R-1556 FRAME & COVER HEAVY DUTY FOR H-20 LOADING. PROVIDE BRICK OR BLOCK RISERS TO GRADE.

COVER TO BE PROVIDED WITH CENTER HOLE WHEN LOCATED OUTSIDE.

(DVP) VENTILS INDEPENDENTLY TO ROOF - 18" LONG BEND C.I.

C.I. TEE OUTLET TO SAN SEWER

EXTRA HEAVY C.I. PIPE

8" POURED IN PLACE CONCRETE: 8" SOLID CONCRETE BLOCKS WITH FULL MORTARED JOINTS, HOR. AND VERT., PLASTERED INSIDE AND OUTSIDE, OR RED BRICK MASONRY PLASTERED ON INSIDE. PORTLAND CEMENT MORTAR USED SHALL CONSIST OF 1 PART CEMENT 2 PARTS SAND. CEMENT BRICK, HOLLOW CONCRETE, OR OTHER CLOCK MASONRY MUST NOT BE USED.

ALUMINUM OR PLASTIC COATED WROUGHT IRON STEPS CAN BE USED.

WROUGHT IRON STEPS

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

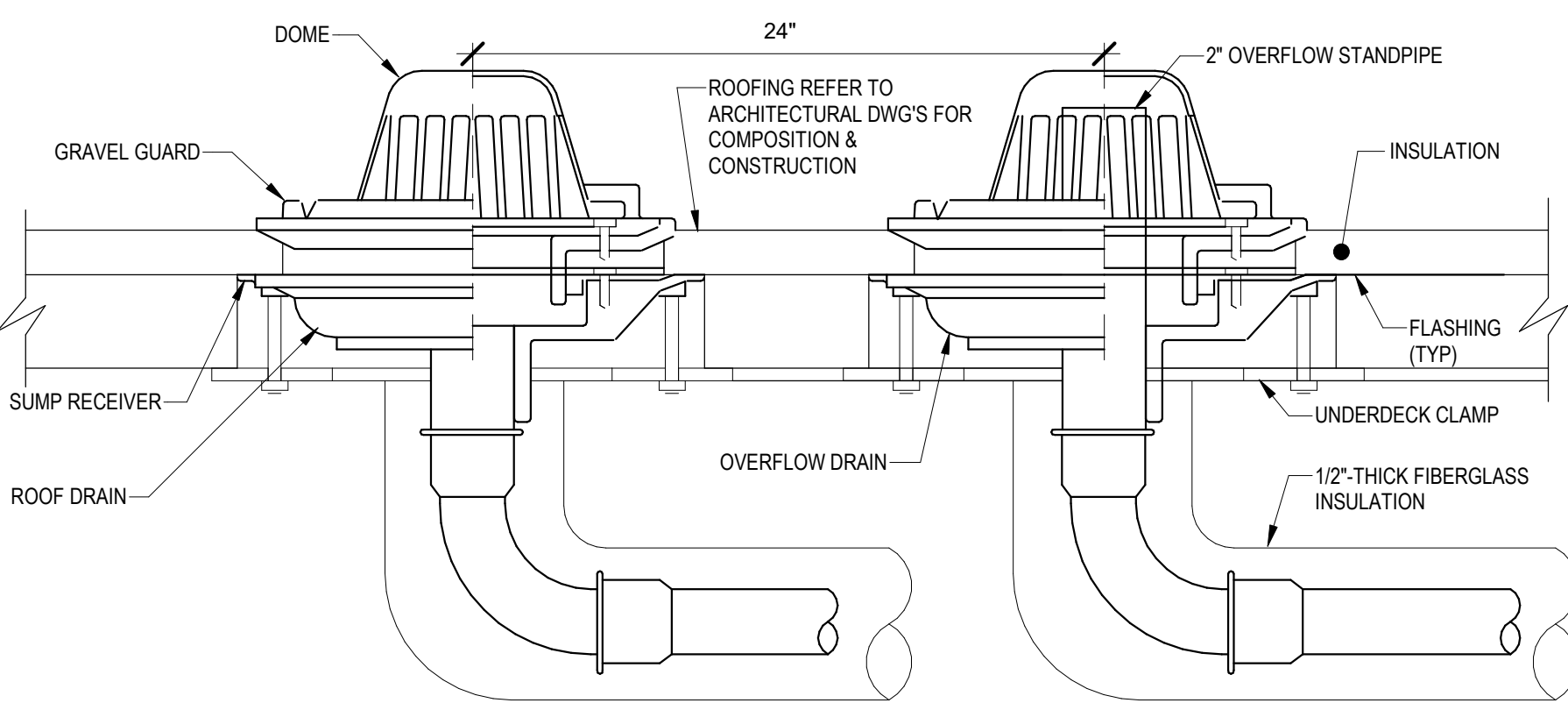
EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

EXTRA HEAVY C.I. PIPE

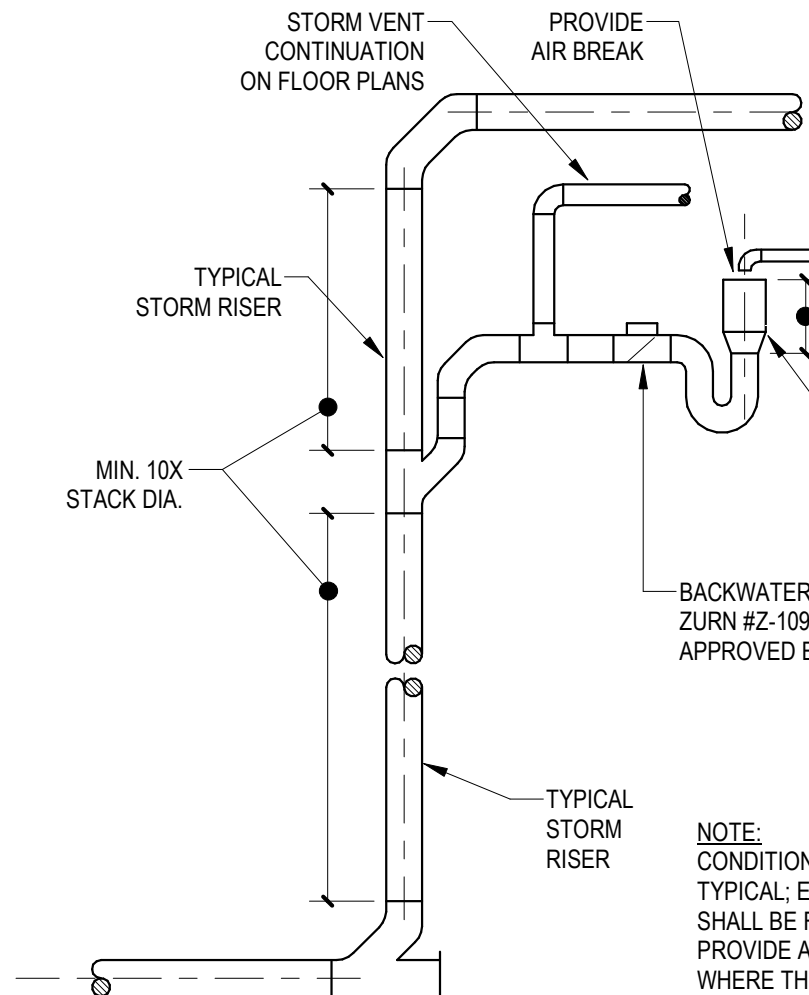
**12 PRIMARY ROOF DRAIN AND INDEPENDENT OVERFLOW DRAIN DETAIL**

P3-0.1 N.T.S.



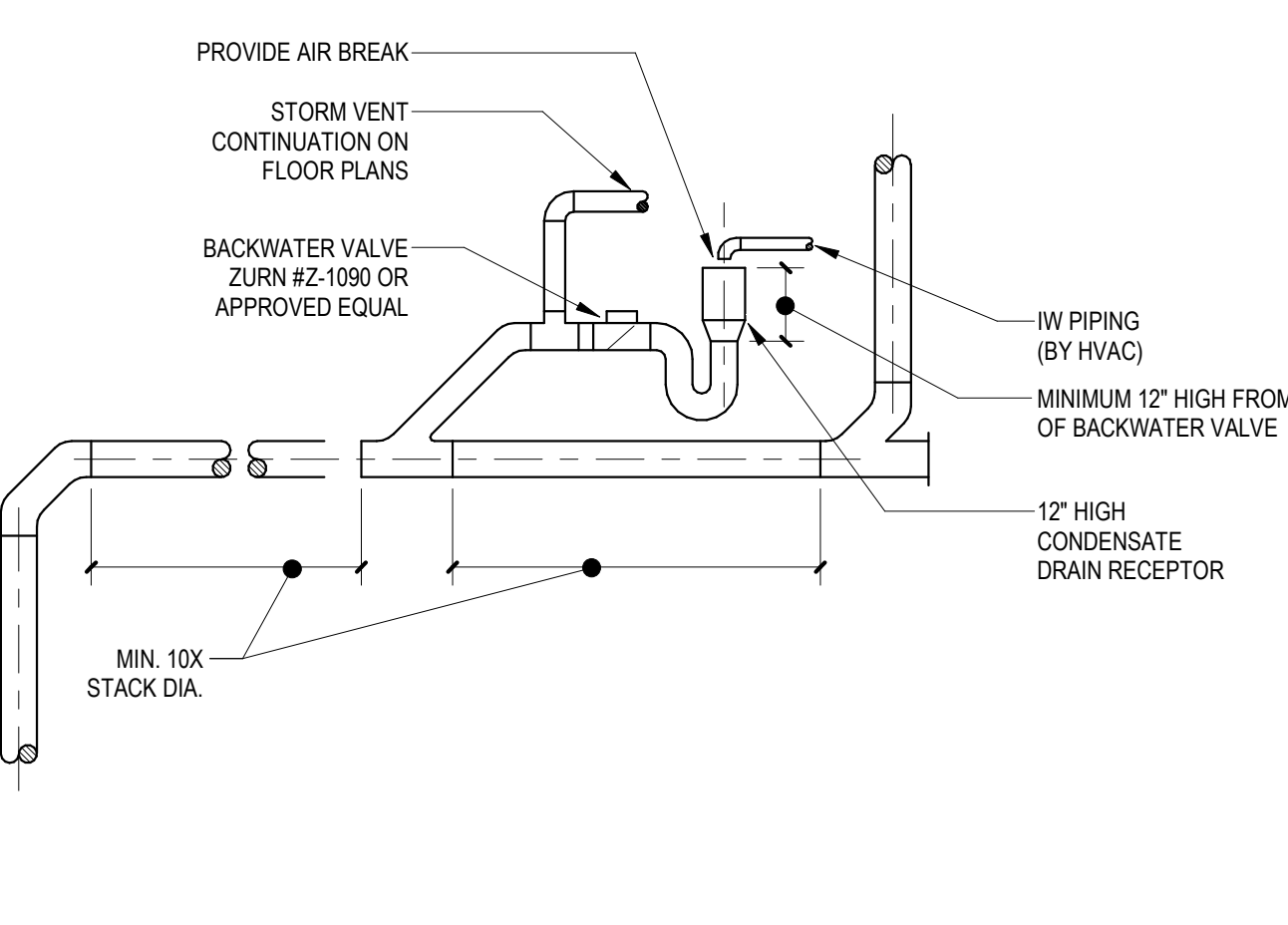
**13 ISLAND SINK DETAIL**

P3-0.1 N.T.S.



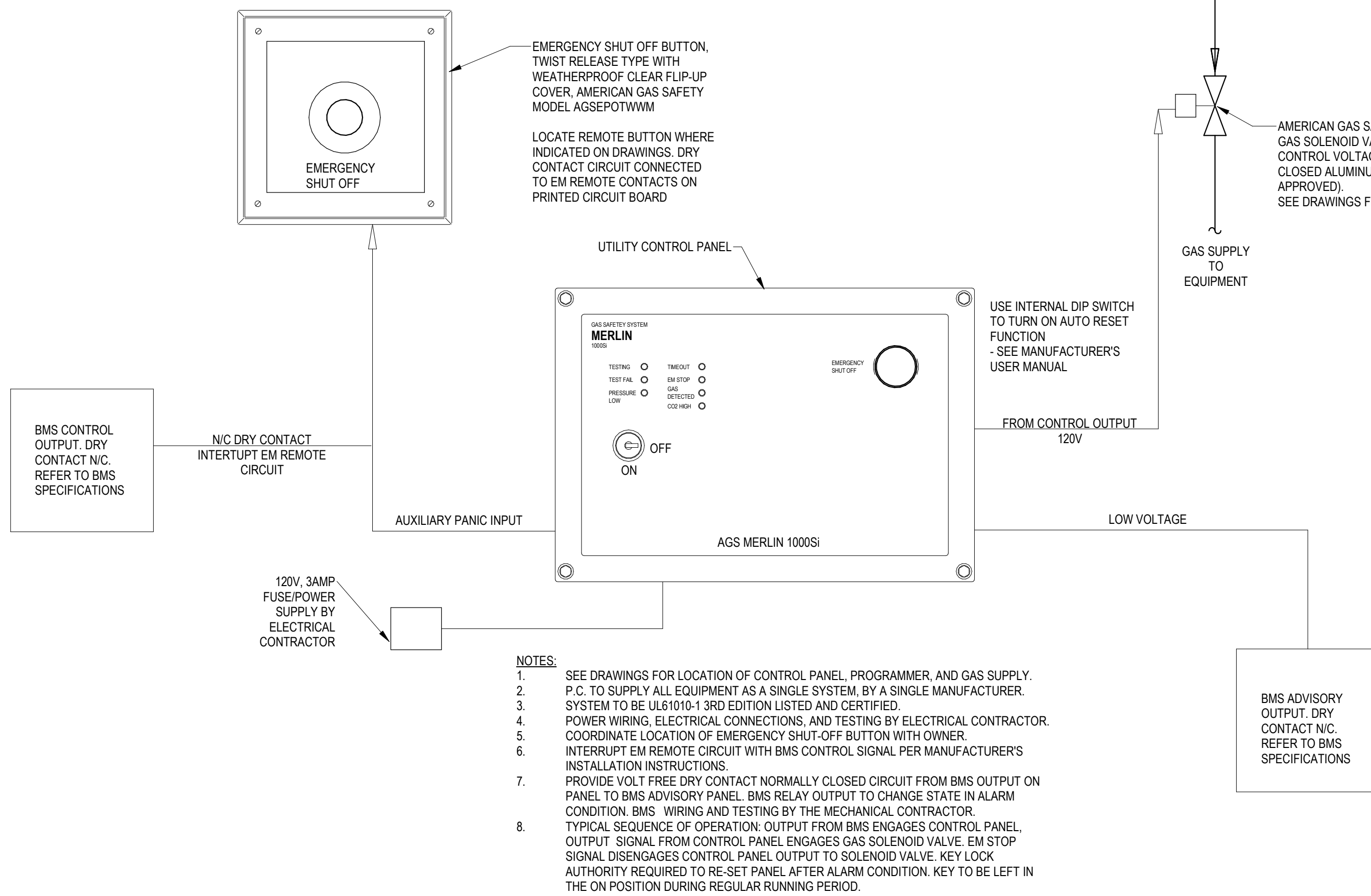
**14 CONDENSATE RECEPTOR**

P3-0.1 N.T.S.



**15 CONDENSATE RECEPTOR**

P3-0.1 N.T.S.



**16 GAS SAFETY CONTROL DETAIL**

P3-0.1 N.T.S.

PLUMBING GREASE TRAP SCHEDULE					
NO.	MANUFACTURER	MODEL	GREASE CAPACITY (LBS)	FLOW RATE (GPM)	REMARKS
GT-1	SCHER	G82	130.5/127.6 LBS	35/50 GPM	LOCAL GREASE TRAP FOR USE IN KITCHENS
GT-2	SCHER	G82	275/176 LBS	50/75 GPM	LOCAL GREASE TRAP FOR USE IN KITCHENS

PLUMBING THERMOSTATIC MIXING VALVE SCHEDULE						
NO.	MANUFACTURER	MODEL	LOCATION	GPM	SYSTEM PRESSURE DROP (PSI)	REMARKS
TMV-1	LEONARD	TM-820B-LF-0T	LOWER LEVEL PART C	40	10	
TMV-2	LEONARD	TM-820B-LF-0T	MEZZANINE PART B	40	10	
TMV-3	LEONARD	TM-820B-LF-0T	MEZZANINE PART A	40	10	
TMV-4	LEONARD	TM-820B-LF-0T	SECOND FLOOR PART A	63	20	
TMV-5	LEONARD	AT-4F	1ST FLOOR ADMIN WING			
TMV-6	LEONARD		ELECTRICAL SHOP			
TMV-7	LEONARD	TM-26-LF	CONCESSIONS BUILDING	10	10	
TMV-8	LEONARD	TM-26-LF	LOCKER ROOM BUILDING	10	10	

PLUMBING HOT WATER RETURN PUMP SCHEDULE								
NO.	MANUFACTURER	MODEL	LOCATION	GPM	TDH (FT)	PUMP HP	ELECTRICAL V PH HZ	REMARKS
HWRP-1	TACO	#113SS	LOWER LEVEL PART C	18	120	1	60	
HWRP-2	TACO	#113SS	MEZZANINE PART B	18	120	1	60	
HWRP-3	TACO	#113SS	MEZZANINE PART A	18	120	1	60	
HWRP-4	TACO	#113SS	SECOND FLOOR PART A	18	120	1	60	
HWRP-5	TACO	#0014SS	1ST FLOOR ADMIN WING	18	120	1	60	
HWRP-6	TACO		ELECTRICAL SHOP					
HWRP-7	TACO	#0014SS	CONCESSIONS BUILDING	18	120	1	60	
HWRP-8	TACO	#0014SS	LOCKER ROOM BUILDING	18	120	1	60	

PLUMBING EXPANSION TANK SCHEDULE						
NO.	MANUFACTURER	MODEL	LOCATION	MAX ACCEPT. VOLUME (GAL)	TOTAL VOLUME (GAL)	SYSTEM CONNECTION
ET-1	AMTRCL	ST-189V-C	LOWER LEVEL PART C	34.0	77.5	1 1/4"
ET-2	AMTRCL	ST-80V-C	MEZZANINE PART B	11.3	34.0	3/4"
ET-3	AMTRCL	ST-42V-C	MEZZANINE PART A	11.3	17.5	3/4"
ET-4	AMTRCL	ST-189V-C	SECOND FLOOR PART A	34.0	77.5	1 1/4"
ET-5	AMTRCL	ST-8V-C	1ST FLOOR ADMIN WING	0.9	2.1	3/4"
ET-6	AMTRCL		ELECTRICAL SHOP			
ET-7	AMTRCL	ST-8V-C	CONCESSIONS BUILDING	0.9	2.1	3/4"
ET-8	AMTRCL	ST-42V-C	LOCKER ROOM BUILDING	11.3	17.5	3/4"

DO NOT SUPPORT TANK FROM PIPING. ONLY SUPPORT TANK FROM BUILDING STRUCTURE.

PLUMBING FIXTURE SCHEDULE					
NO.	FIXTURE	MANUFACTURER	FAUCET/FLUSH VALVE	CARRIER / SUPPORT	MISC.
P-1	WATER CLOSET	TOTO #CT178U	TOTO #TEFLAS3CP	WALL MOUNTED	1.28 GPF
P-1A	WATER CLOSET	TOTO #CT178U	TOTO #TEFLAS3CP	WALL MOUNTED	1.28 GPF, ACCESSIBLE
P-2	URINAL	TOTO #UT178U	TOTO #TEFLUA3CP	WALL MOUNTED	0.125 GPF
P-2A	URINAL	TOTO #UT178U	TOTO #TEFLUA3CP	WALL MOUNTED	0.125 GPF, ACCESSIBLE
P-3A	WALL MOUNTED LAVATORY	AMERICAN STANDARD DECORUM #902401EC-20	SLAN #EAF-275-SS-304-CP-0.35 GPM/MLM-R-IQ-FCT	WALL MOUNTED	0.35 GPM FAUCET, PROVIDE THERMOSTATIC MIXING VALVE
P-3B	Basin Type Lavatory	BRADLEY #WF2704-TMA	INTEGRAL	FLOOR MOUNTED	5/4" SEM CIRCULAR, FOOT ACTIVATED FAUCET, INTEGRAL THERMOSTATIC MIXING VALVE
P-3C	RESTROOM LAVATORY	BRADLEY #MG-2-TMA LAVATORY SYSTEM	INTEGRAL	FLOOR MOUNTED	0.35 GPM FAUCET, INTEGRAL THERMOSTATIC MIXING VALVE
P-3D	CIRCULAR LAVATORY	BRADLEY #WF2708-TMA	INTEGRAL	FLOOR MOUNTED	5/4" CIRCULAR, FOOT ACTIVATED FAUCET, INTEGRAL THERMOSTATIC MIXING VALVE
P-4	MOP SINK	STERN WILLIAMS #902-SB	CHICAGO #M45-39/SCXCP		
P-5	DRINKING FOUNTAIN	ELKAY LYR2CW5K	NA	WALL MOUNTED	120V POWER CONNECTION REQUIRED
P-5A	OUTDOOR DRINKING FOUNTAIN	ELKAY			
P-6	SHOWER	SYMMONS 900B-PL-R-1.5-L5-L6-X	INTEGRAL SHOWER VALVE		1.5 GPM SHOWERHEAD, SHOWER BASE BY ARCHITECT, DRAIN BY PC
P-6A	SHOWER ADA	SYMMONS 900B-PL-R-1.5-L5-L6-X	INTEGRAL SHOWER VALVE		1.5 GPM SHOWERHEAD, SHOWER BASE BY ARCHITECT, DRAIN BY PC
P-7	SHOWER	SYMMONS 900B-PL-R-1.5-L5-L6-X	INTEGRAL SHOWER VALVE		1.5 GPM SHOWERHEAD, SHOWER BASE BY ARCHITECT, DRAIN BY PC
P-7A	SHOWER ADA	SYMMONS 900B-PL-R-1.5-L5-L6-X	INTEGRAL SHOWER VALVE		1.5 GPM SHOWERHEAD, SHOWER BASE BY ARCHITECT, DRAIN BY PC
P-8	EYEWASH/SHOWER STATION	GUARDIAN #K9F2250		FREE STANDING	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER
P-8A	EYEWASH/SHOWER STATION	GUARDIAN #K9F2250		RECESSED IN WALL	INCLUDES LOCAL MIXING VALVE AND ACCESS PANEL
P-8B	EYEWASH/SHOWER STATION	GUARDIAN #K9F2250		RECESSED IN WALL	FED FROM TEMPERED WATER SYSTEM IN SCIENCE ROOMS
P-9	EYEWASH/SHOWER STATION	GUARDIAN #K9F2250-G920		RECESSED IN WALL	INCLUDES LOCAL MIXING VALVE
P-10	UTILITY SINK	ELKAY EW5F1306T1	ELKAY LKB21C-LK723	WALL HUNG	INCLUDES THERMOSTATIC MIXING VALVE
P-11	HAND SINK	ELKAY CH5174LR52ACC	INTEGRAL	WALL HUNG	
PX-1	CASEWORK SINK WITH EYEWASH	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		PROVIDE HAIR TRAP
PX-4	SCIENCE ROOM SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
PX-5	LAB SINK	FURNISHED BY OTHERS	FURNISHED BY OTHERS		PROVIDE ACID WASTE AND VENT, 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"	-	ACCESSIBLE
P-1A	WATER CLOSET	4"	3"	1"	-	ACCESSIBLE
P-2	URINAL	3"	2"	3/4"	-	ACCESSIBLE
P-2A	URINAL	3"	2"	3/4"	-	ACCESSIBLE
P-3	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P-3B	WASH FOUNTAIN	2	1 1/2"	1"	1"	
P-3C	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
P-3D	WASH FOUNTAIN	2	1 1/2"	1"	1"	
P-4	MOP RECEPTOR	3"	2"	1/2"	1/2"	
P-4A	MOP RECEPTOR	3"	2"	1/2"	1/2"	
P-5	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	1/2"	
P-5A	OUTDOOR DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	1/2"	
P-6	SHOWER	3"	2"	1/2"	1/2"	
P-6A	SHOWER (ACCESSIBLE)	3"	2"	1/2"	1/2"	
P-7	EMERGENCY SHOWER/EYEWASH	1 1/2"	1 1/2"	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE 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"	1 1/2"	1 1/2"	PROVIDE LOCAL MIXING VALVE TO TEMPER WATER TO 90F
P-10	UTILITY SINK	1 1/2"	1 1/2"	1/2"	1/2"	
P-11	HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"	
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 - JR SMITH 8750 - AT EACH SINK
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
PX-7	SHAMPOO STATION	1 1/2"	1 1/2"	1/2"	1/2"	PROVIDE HAIR TRAP - JR SMITH 8750 - AT EACH SINK

PLUMBING DRAIN SCHEDULE													
NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	BODY					TOP				REMARKS
				CI	GALV	BR	ARC	SS	PP	GALV	PB	NB	
FD1	FLOOR DRAIN	JR SMITH	2055-B-PB-U-P	●							●		TOILET ROOMS / GENERAL AREA
FD2	FLOOR DRAIN	JR SMITH	2230-Y-U-G	●							●		MECHANICAL ROOM INCLUDE TRAP PRIMER CONNECTION AND TRAP PRIMER PIPING @ PR01-500
FD3	FLOOR DRAIN	JR SMITH	FIG 3101	●							●		FULL GRATE, ACID RESISTANT COATED INTERIOR SUITABLE FOR KITCHEN APPLICATIONS
FD3	FLOOR DRAIN	JR SMITH	FIG 3101-12U	●							●		HALF GRATE, ACID RESISTANT COATED INTERIOR SUITABLE FOR KITCHEN APPLICATIONS
FD4	FLOOR DRAIN	JR SMITH	FIG 3010-Y-B	●							●		PROVIDE FUNNEL DRAIN FOR USE IN PLUMBING SHOP INCLUDE TRAP PRIMER CONNECTION
TD	TRENCH DRAIN	JR SMITH	FIG 9660	●							●		CENTER BOTTOM ONLY PROVIDE MODULAR SECTIONS IN CONJUNCTION WITH TRENCH DRAIN WIDTH
CH-CAST IRON GALV-GALVANIZED BR-BRASS ARC-ACID RESISTANT COATING SS-STAINLESS STEEL PP-POLYPROPYLENE PB-POLISHED BRASS OR BRONZE NB-NICKEL BRONZE													

PLUMBING SPECIALTY SCHEDULE					
NO.	ITEM	MANUFACTURER	MODEL	REMARKS	
BFP-1	BACKFLOW PREVENTER	WATTS	L709B-FS	PROVIDE ON P SERVICE ENTRY	
BFP-2	BACKFLOW PREVENTER	WATTS	L709B-FS	PROVIDE ON T MAKE-UP WATER	
BWV-1	BACKWATER VALVE	ZURN	Z-1090	FOR CONDENSATE RECEPTORS AND SCUPPER DRAWS	
HB	HOSE BIBB	CHICAGO	#962 OR #968	962 - CONCEALED PIPING, 968 - EXPOSED PIPING	
RH-1	ROOF HYDRANT	WOODFORD	SRH-MS	FREEZELESS (NO DRAIN LINE REQUIRED)	
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	PR01-500	ONE DRAIN UNIT, INSTALL ABOVE CEILING, FLOW TYPE	
TP-2	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	MP-500	120V ELECTRONIC TRAP PRIMER	
TP-3	TRAP PRIMER	PRECISION PLUMBING PRODUCTS	PI-500	PRESSURE DROP TYPE TRAP PRIMER	
WH	WALL HYDRANT	WOODFORD	R65	NON FREEZE TYPE	
WM-1	WATER METER	NEPTUNE	TRURLO 4"	PROVIDE AT SERVICE ENTRY	
WM-2	WATER METER	NEPTUNE	TRURLO 2"	PROVIDE AT COSMETOLOGY WATER HEATERS	
WM-3	WATER METER	NEPTUNE	TRURLO 3"	PROVIDE AT AREA A WATER HEATERS	
WM-4	WATER METER	NEPTUNE	TRURLO 3"	PROVIDE AT AREA A WATER HEATERS	
WM-5	WATER METER	NEPTUNE	TRURLO 2"	PROVIDE AT NPHW WATER HEATER	
WM-6	WATER METER	NEPTUNE	1-10 3/4"	PROVIDE AT AREA A ADMIN WATER HEATER	

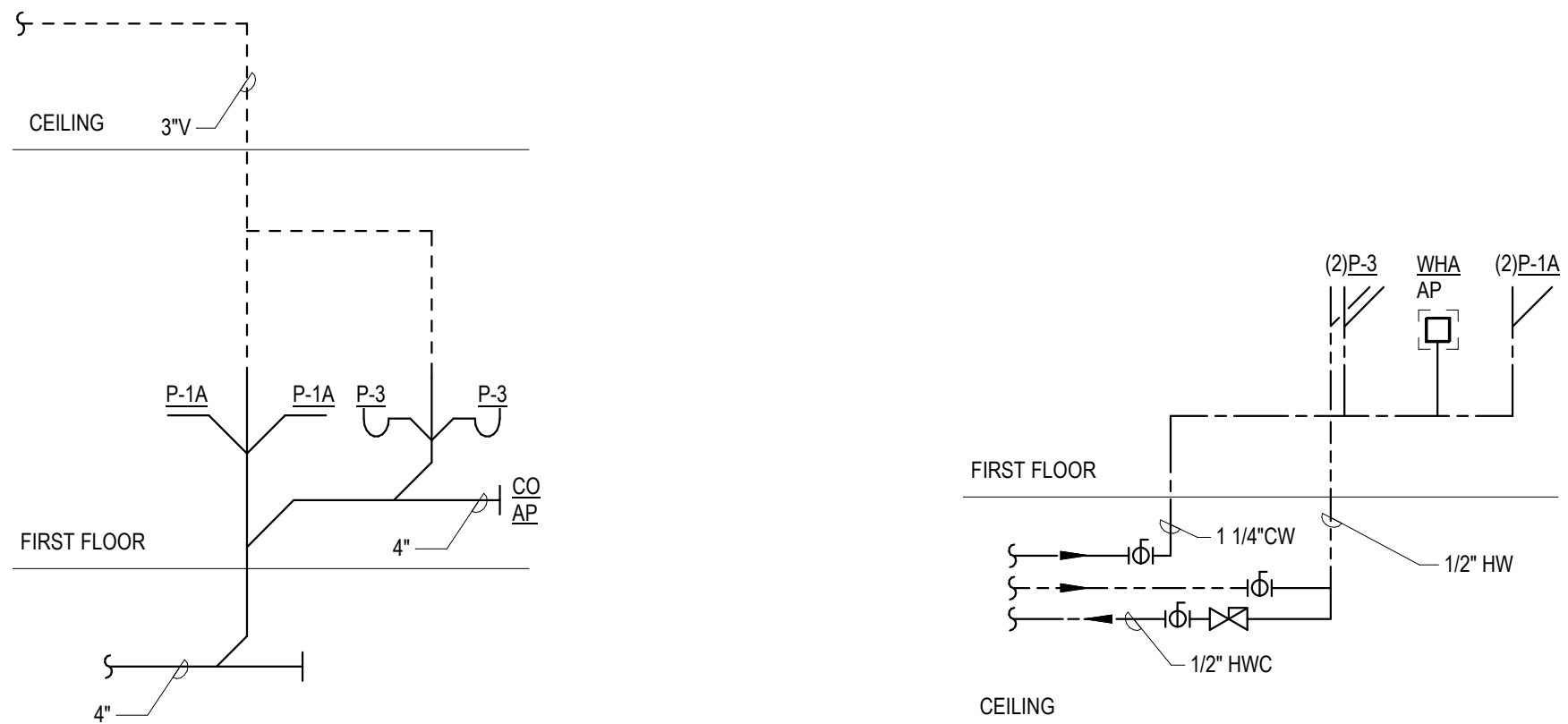
PLUMBING SUMP PUMP SCHEDULE					
NO.	MANUFACTURER	MODEL	LOCATION	ELECTRICAL V PH HP	REMARKS
SP-1	WEIL	1411	XX	208 3 1/2	
SP-2	WEIL	1411	XX	208 3 1/2	
SP-3	WEIL	1411	XX	208 3 1/2	

PLUMBING DOMESTIC WATER BOOSTER PUMP SCHEDULE					
NO.	MANUFACTURER	MODEL	LOCATION	ELECTRICAL V PH HP	REMARKS
DWP-1	SYNCRIFLO	PR022X106VFD	WATER SERVICE ENTRY 1ST FL - AREA B	480 3 (3) @ 10	TRIPLEX DOMESTIC WATER BOOSTER SYSTEM

KITCHEN EQUIPMENT PLUMBING FIXTURE SCHEDULE						
	DESCRIPTION	CW	HW	G	W	COMMENTS
	OLER EVAPORATOR COIL				1"	
	EEZER EVAPORATOR COIL				1"	
	EEZER EVAPORATOR COIL				1"	
	REE-COMPARTMENT SINK	(2) 3/4"	2 (3/4")		(3) 2"	120" F HW, WASTE MANIFOLD THRU GI BY PC, PROVIDE RP2S FOR WATER LINES TO FIXTURE
	OSER	(2) 1/2"			2"	
	REEL ASSEMBLY	1/2"	1/2"			
	RENEWASHER, DOOR-TYPE, VENTLESS	3/4" (55 F MIN) 1/2" (DRAIN TEMPERING)			5/8" (TO FS)	
	D SINK	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
	SINKS WORK TABLE WITH SINK & OVERSHELF	1/2"			2" (TO FS)	
	COMBINATION OVEN/STEAMER, ROLL-IN	3/4"		3/4"	2" (TO FS)	G @ 160 MBTU G @ 100 MBTU
	BLE CONVECTION OVEN			3/4"		G @ 40 MBTU
	VEYER OVEN ON STAND			3/4"		G @ 84 MBTU
	PAN STEAMER	1/2"		3/4"	1-1/2" (TO FS)	G @ 144 MBTU
	ITY CITY-QUART TILTING BRASING PAN	1/2"	1/2"	1/2"		G @ 215 MBTU
	BURNER RANGE WITH OVEN	1/2"	1/2"	3/4"		G @ 100 MBTU
	ITY-GALLON TILTING KETTLE	1/2"	1/2"	1/2"		G @ 84 MBTU (1.750 MBTU SYSTEM CAPACITY)
	ITY CITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"	3"	W CONNECTION 7' BFF
	OR PAN & GRATE					
	SINKS WORK TABLE WITH SINK & OVERSHELF	1/2"	1/2"		2" (TO FS)	
	WATER FILTER ASSEMBLY	3/4"				
	P TABLE WITH SINKS	1/2"	1/2"		(2) 2" (TO FS)	
	WATER FILTER ASSEMBLY	1/2"				
	EXISTING COFFEE BREWER	1/2" (FILTERED)				
	D SINK	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
	FOOD WELL ASSEMBLY, DROP IN				1/2" (MANFOLD TO FS)	
	FAUCET	1/2"			1/2" (MANFOLD TO FS)	
	FOOD WELL ASSEMBLY, DROP IN				1/2" (MANFOLD TO FS)	
	D PAN, DROP IN				1" (TO FS)	
	D PAN, DROP IN				1" (TO FS)	
	FOOD WELL ASSEMBLY, DROP IN				1/2" (TO FS)	
	D PAN, DROP IN				1" (TO FS)	
	SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"			DRAIN IN FLOOR, PROVIDE RP2S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE
	EXISTING WAREWASHER, CONVEYER TYPE	1/2" (DRAIN TEMPERING)	3/4"		1-1/4" (TO FS)	180" F HW
	WATER FILTER ASSEMBLY					
	STER HEATER, LARGE COMPACT					
	REEL ASSEMBLY	1/2"	1/2"			
	ED TOP TABLE WITH SCRAP SINK & INTEGRAL PASS-THRU WINDOW FRAME				2"	
	D SINK	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
	MAKER WITH BIN	1/2" (FILTERED)			3"	(1) 1/2", (1) 3/4" (TO FS)
	OR PAN & GRATE					W CONNECTION 7' BFF
	OLER EVAPORATOR COIL				1"	W TO FO BY KEC
	FREEZER EVAPORATOR COIL				1"	W TO FO BY KEC
	SINK & SERVICE FAUCET (BY PC)	1/2"	1/2"			DRAIN IN FLOOR, PROVIDE RP2S ON WATER LINES TO FIXTURE, SEE PLUMBING FIXTURE SCHEDULE
	FRONT LOAD CLOTHES DRYER	1/2"	1/2"			STANDARD W
	EE-COMPARTMENT SINK	(2) 3/4"	(2) 3/4"		(3) 2"	120" F HW, WASTE MANIFOLD THRU GI BY PC, PROVIDE RP2S ON WATER LINES TO FIXTURE
	D SINK	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
	EYEFACE WASH	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F
	WATER FILTER ASSEMBLY	3/4"			2" (TO FS)	
	RENEWASHER, BACK CONVEYER	1/2" (DRAIN TEMPERING)	1/2"		2" (TO FS)	
	WATER FILTER ASSEMBLY					
	ED WARE TABLE WITH SCRAP SINK				2"	
	HOSE REEL ASSEMBLY	1/2"	1/2"			
	WORK COUNTER WITH SINK	1/2"	1/2"		2" (TO FS)	
	D SINK	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 110 DEG F
	TWO-BURNER/BROILER RANGE WITH OVEN			3/8"		G @ 135 MBTU
	DONUT FRYER WITH FILTER DRAWER	1 1/2"	1 1/2"	1/2"		G @ 72 MBTU
	DOUBLE CONVECTION OVEN			3/4"		G @ 100 MBTU
	SIX-BURNER RANGE WITH OVEN			3/4"		G @ 215 MBTU
	WATER FILTER ASSEMBLY	3/4"				REQUIRES WALL BRACKING BY GC IN NONMASONRY WALLS, PC TO BRANCH FILTERED WATER OUTPUT PIPING TO ITEMS E13 & E14
	BLE CONVECTION OVEN	(2) 3/4" (FILTERED) (2) 3/4"	(2) 3/4"		(2) 1-1/2" (TO FS)	G @ 90 MBTU
	TING ROLL-IN PROOFER	1/2" (FILTERED)			3/4" (TO FS)	
	EYEFACE WASH	1/2"	1/2"		1-1/2"	PROVIDE THERMOSTATIC MIXING VALVE TO TEMPER WATER TO 90 DEG F
	FAUCET	1/2"	1/2"			
	P TABLE WITH SINKS	1/2"	1/2"		(2) 2" (TO FS)	
	COMPLAINT HAND SINK	1/2"	1/2"		1-1/2"	1-1/2" (TO FS)
	COMPLAINT PREP STATION TABLE WITH SINK	1/2"	1/2"		1-1/2"	1-1/2" (TO FS)
	WATER FILTER ASSEMBLY	3/4"				
	D SINK	1/2"	1/2"		1-1/2"	2" (TO FS)
	SINKS WORK TABLE WITH SINK & OVERSHELF	1/2"			2" (TO FS)	
	ITY DISTRIBUTION SYSTEM	(1) 3/4", (1) 3/4" (FILTERED)	3/4"	2"		G @ 1.499 MBTU (LOOPED SERVICE) (2,350 MBTU SYSTEM CAPACITY)
	BLE TWEENTY-QUART TILTING KETTLE	1/2" (FILTERED)	1/2"	1/2"		G @ 200 MBTU
	ITY CITY-QUART KETTLE WITH DRAIN CART STAND	1/2"	1/2"	1/2"		G @ 52 MBTU
	ITY-GALLON TILTING BRASING PAN	1/2"	1/2"	3/4"		G @ 144 MBTU
	BURNER RANGE WITH OVEN	3/4" (FILTERED)	1/2"	3/4"	2" (TO FS)	G @ 215 MBTU
	COMBINATION OVEN ON MOBILE STAND	1/2" (FILTERED)	3/4"		1-1/2" (TO FS)	G @ 90 MBTU
	PAN STEAMER	1/2" (FILTERED)	3/4"			G @ 84 MBTU
	VECTION OVEN					G @ 50 MBTU
	FAUCET	1/2"	1/2"			
	BURNER RANGE WITH OVEN & BACKSHELF BROILER				1"	G @ 252 MBTU
	ITY CITY UNDERFRED BROILER				3/4"	G @ 96 MBTU
	ROILER RANGE WITH OVEN & BACKSHELF BROILER				1"	G @ 126 MBTU
	WATER ASSEMBLY WITH FILTER DRAWER				3/4"	G @ 160 MBTU
	OR PAN & GRATE					3"
	D SINK (PART OF ASSEMBLY)	1/2"	1/2"		2" (TO FS)	W CONNECTION 7' BFF
	ANT TABLE, THREE-WELL (PART OF ASSEMBLY)	1/2"	1/2"		1-1/2"	1-1/4" (TO FS)
	D SINK (PART OF ASSEMBLY)	1/2"	1/2"		1-1/2"	1-1/2" (TO FS)
	PERWELL & FAUCET					1-1/4" (TO FS)
	WELL-BELL, DROP IN					1/2" (MANFOLD TO FS)
	FOOD WELL, DROP IN	1/2"	1/2"		1-1/2"	1/2" (TO FS)
	COMPLAINT HAND SINK	1/2"	1/2"		1-1/2"	(2) 2" (TO FS)
	P TABLE WITH SINKS	1/2"	1/2"			
	REWORKMOUNT HAND SINK WITH FAUCET & SOAP DISPENSER	1/2"	1/2"			
	FE BREWER (BY OWNER'S VENDOR)	1/2" (FILTERED)				
	RANGE UNIT WITH ACO ON FAUCET	1/2"				
	REWORKMOUNT WORK SINK				1-1/2" (TO FS)	
	WATER DISPENSER	1/2" (FILTERED)				
	DISPENSER, MANUAL FILL	1/2" (FILTERED)				3/4" (TO FS)
	RESSO MACHINE (BY OWNER'S VENDOR)					3/4" (TO FS)

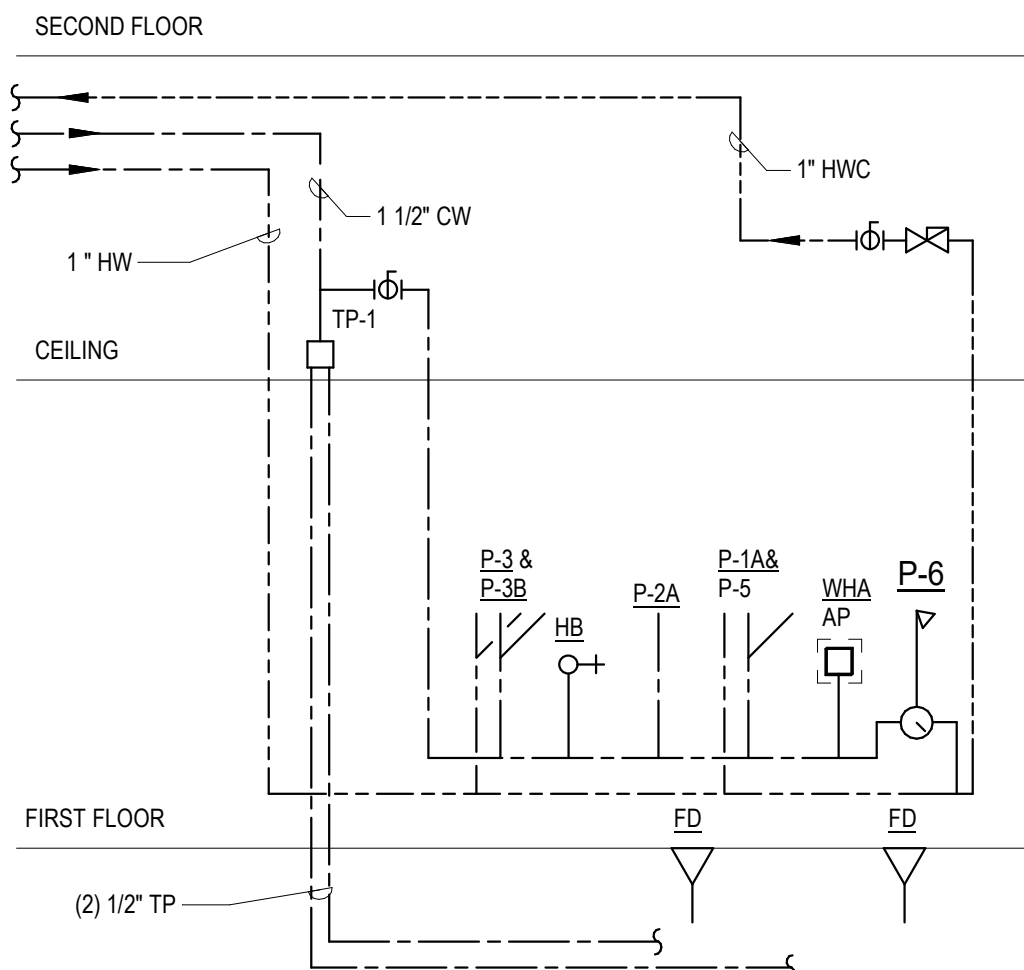


SECOND FLOOR



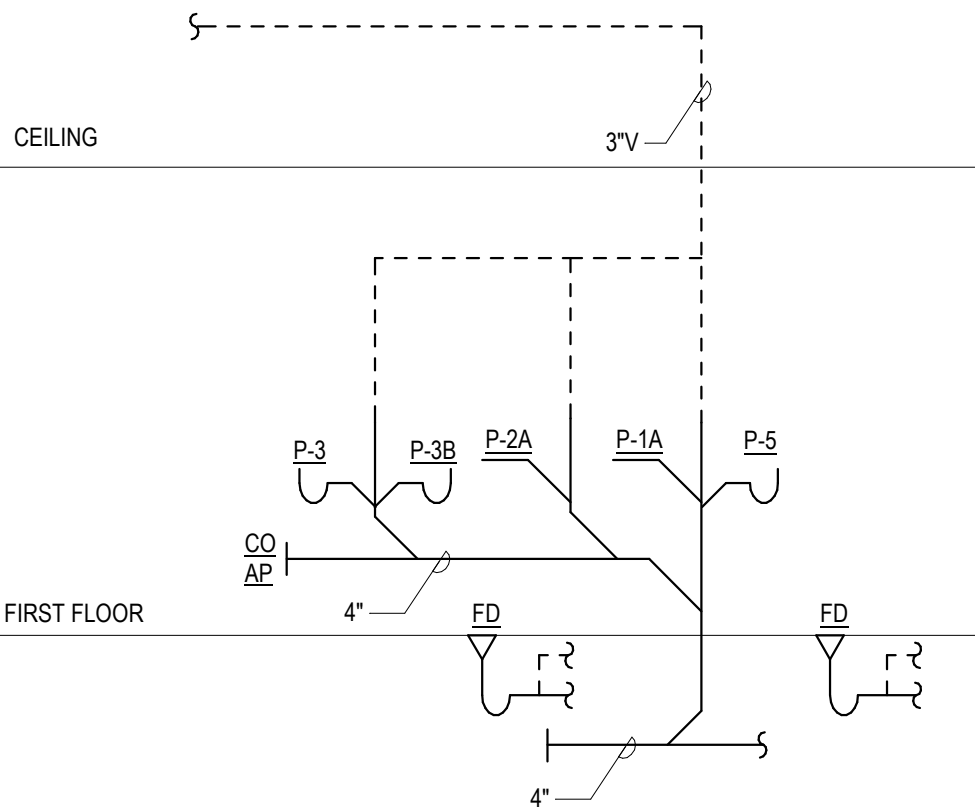
1 NURSE TOILETS D107-D108 SANITARY RISER  
N.T.S.

2 NURSE TOILETS D107-D108 WATER RISER  
N.T.S.



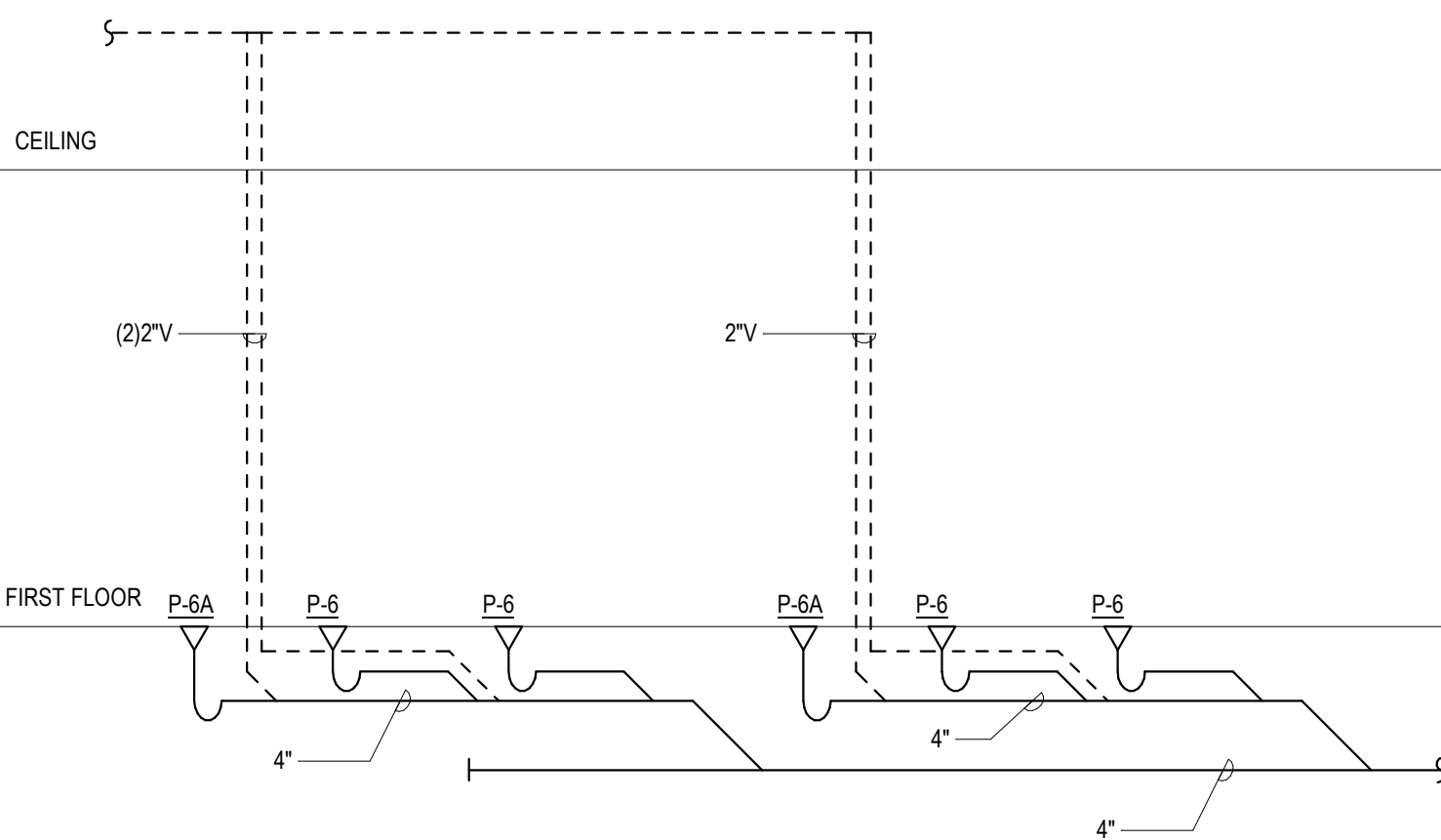
3 ROOMS D003C & D003 WATER RISER  
N.T.S.

SECOND FLOOR



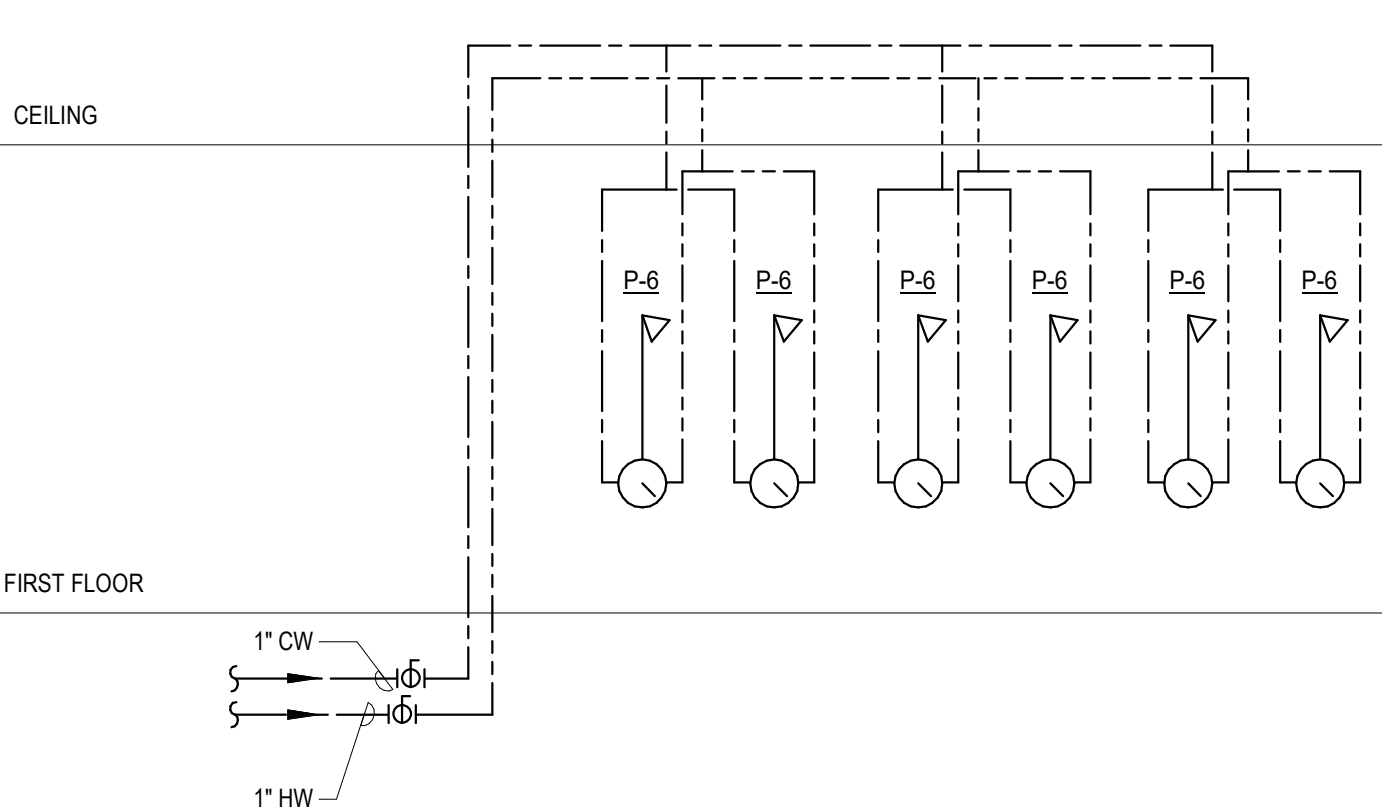
4 ROOMS D003C & D003 SANITARY RISER  
N.T.S.

SECOND FLOOR



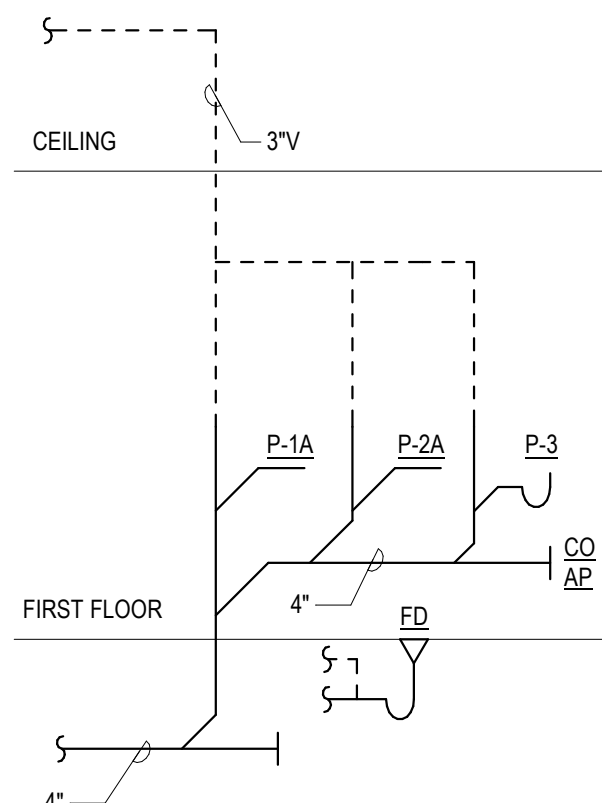
5 SHOWER ROOMS D122A/D117A SANITARY RISER  
N.T.S.

SECOND FLOOR

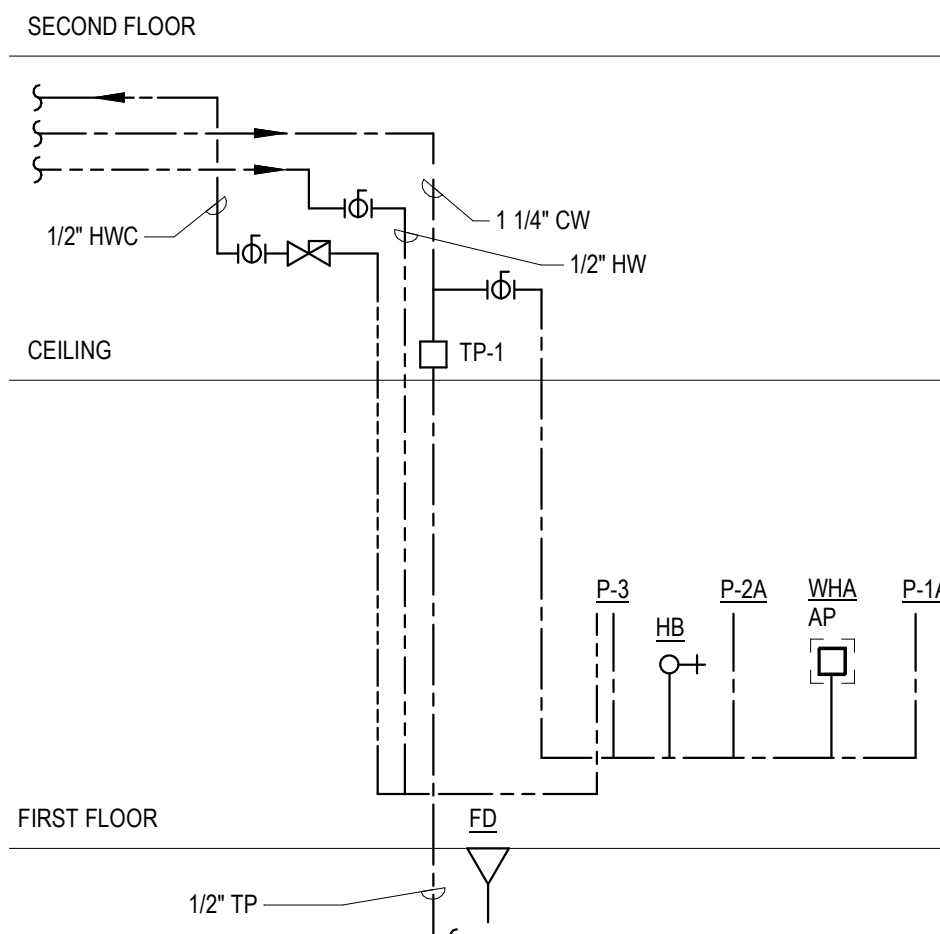


6 SHOWER ROOMS D122A/D117A WATER RISER  
N.T.S.

SECOND FLOOR

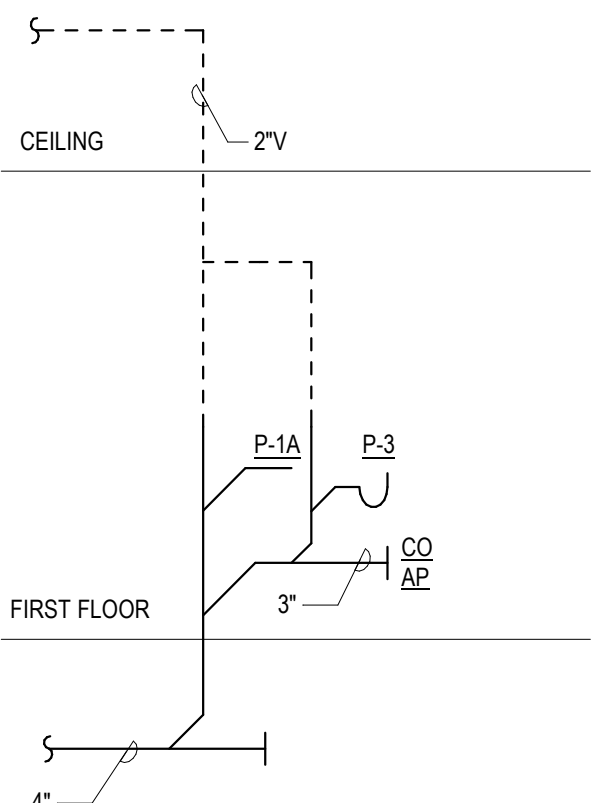


7 TOILET ROOM A148B SANITARY RISER  
N.T.S.

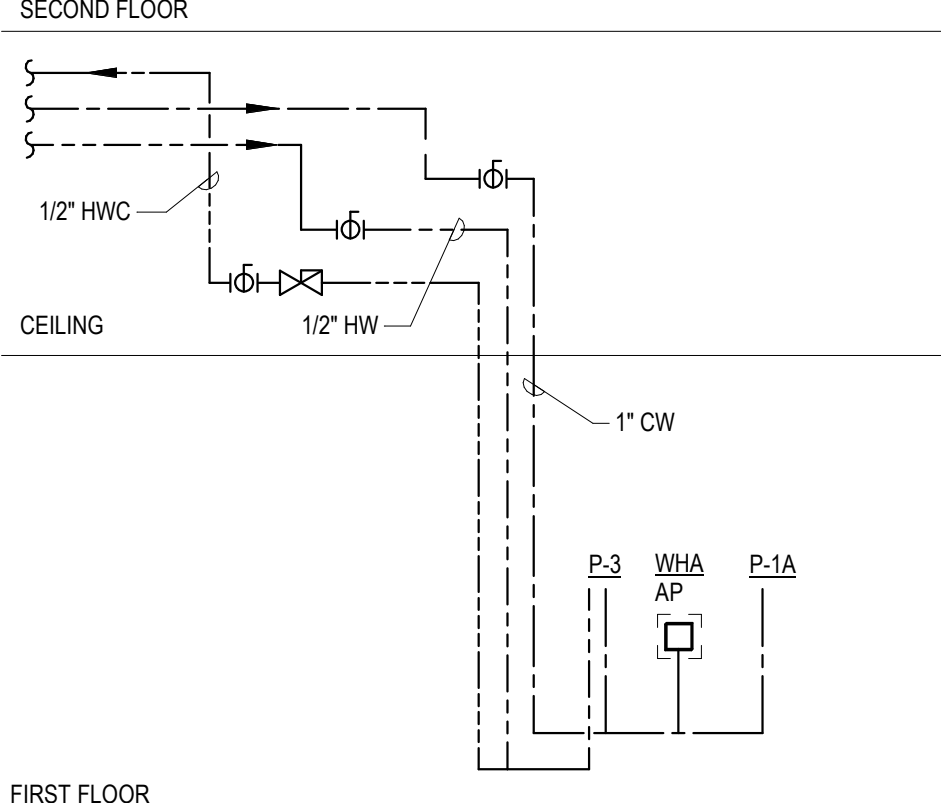


8 TOILET ROOM A148B WATER RISER  
N.T.S.

SECOND FLOOR

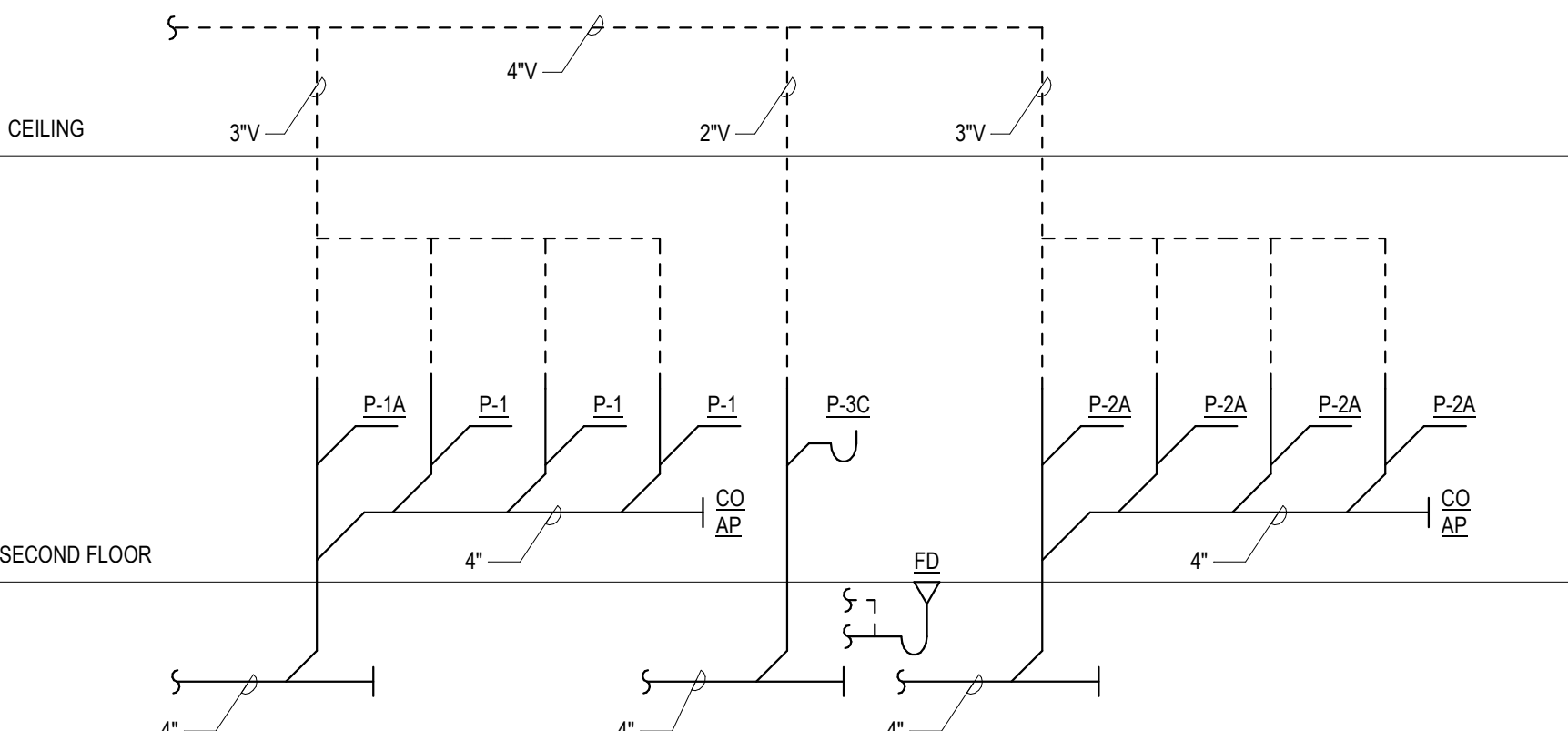


9 TOILET ROOM B121B SANITARY RISER  
N.T.S.



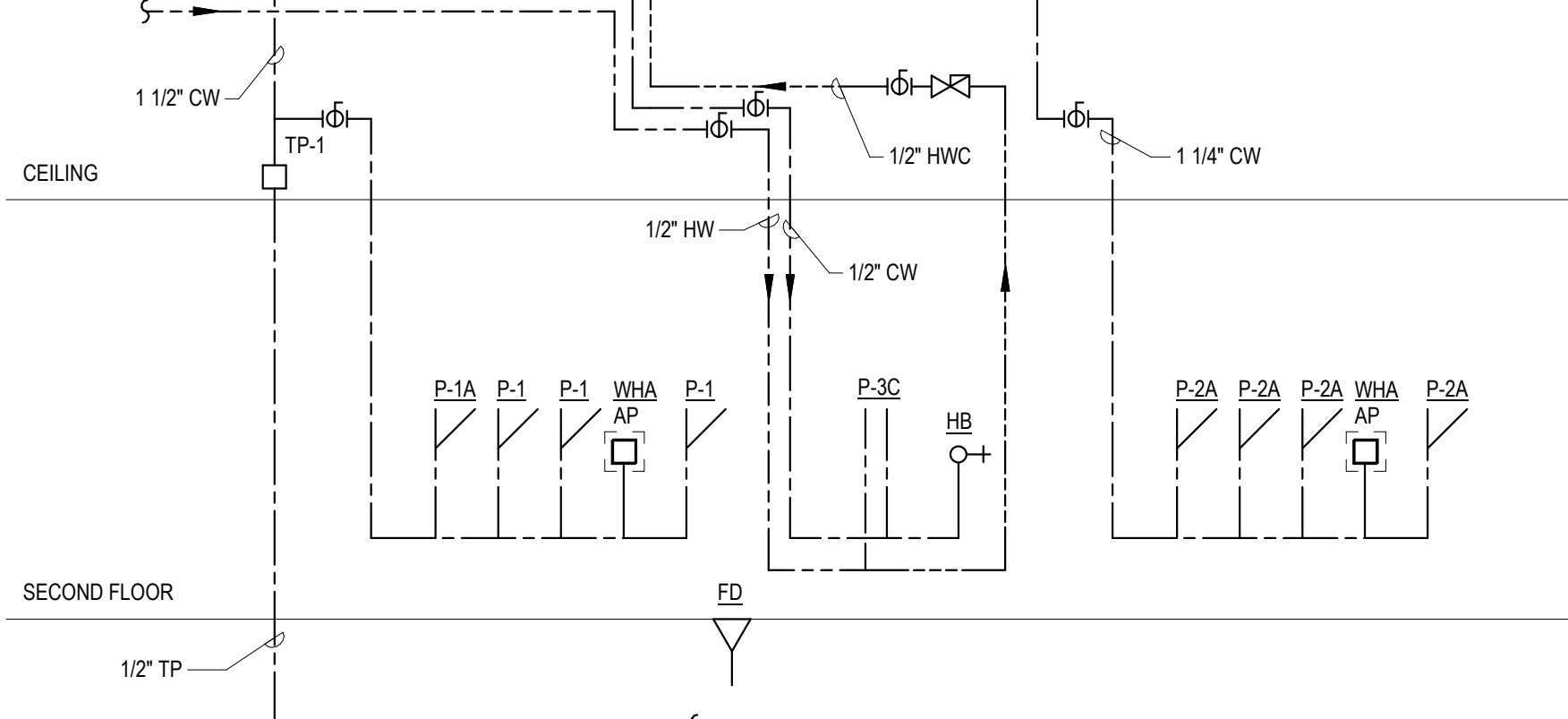
10 TOILET ROOM B121B WATER RISER  
N.T.S.

THIRD FLOOR



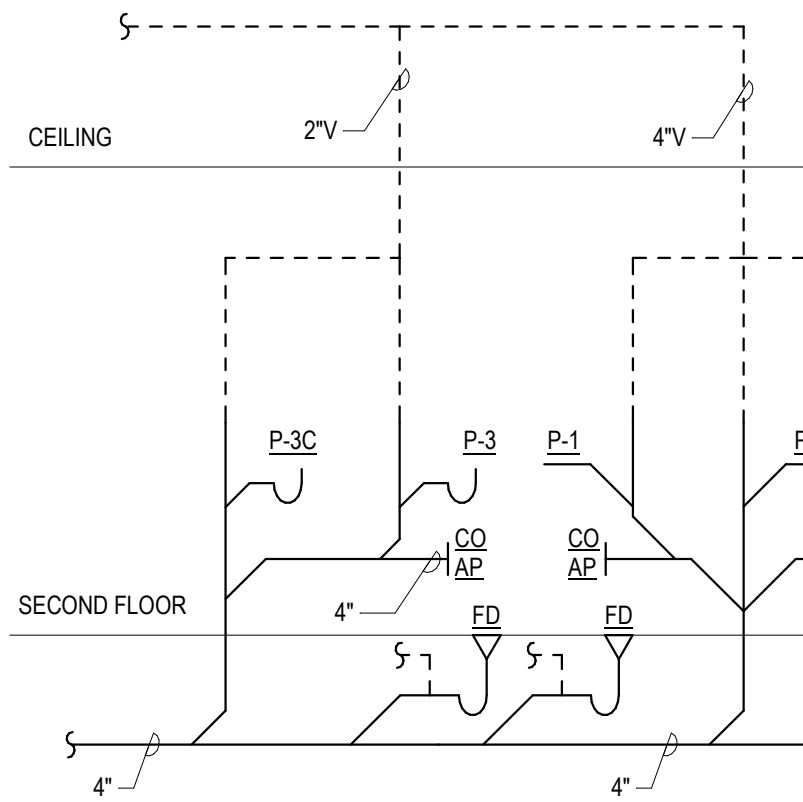
11 TOILET ROOM B217 SANITARY RISER  
N.T.S.

THIRD FLOOR

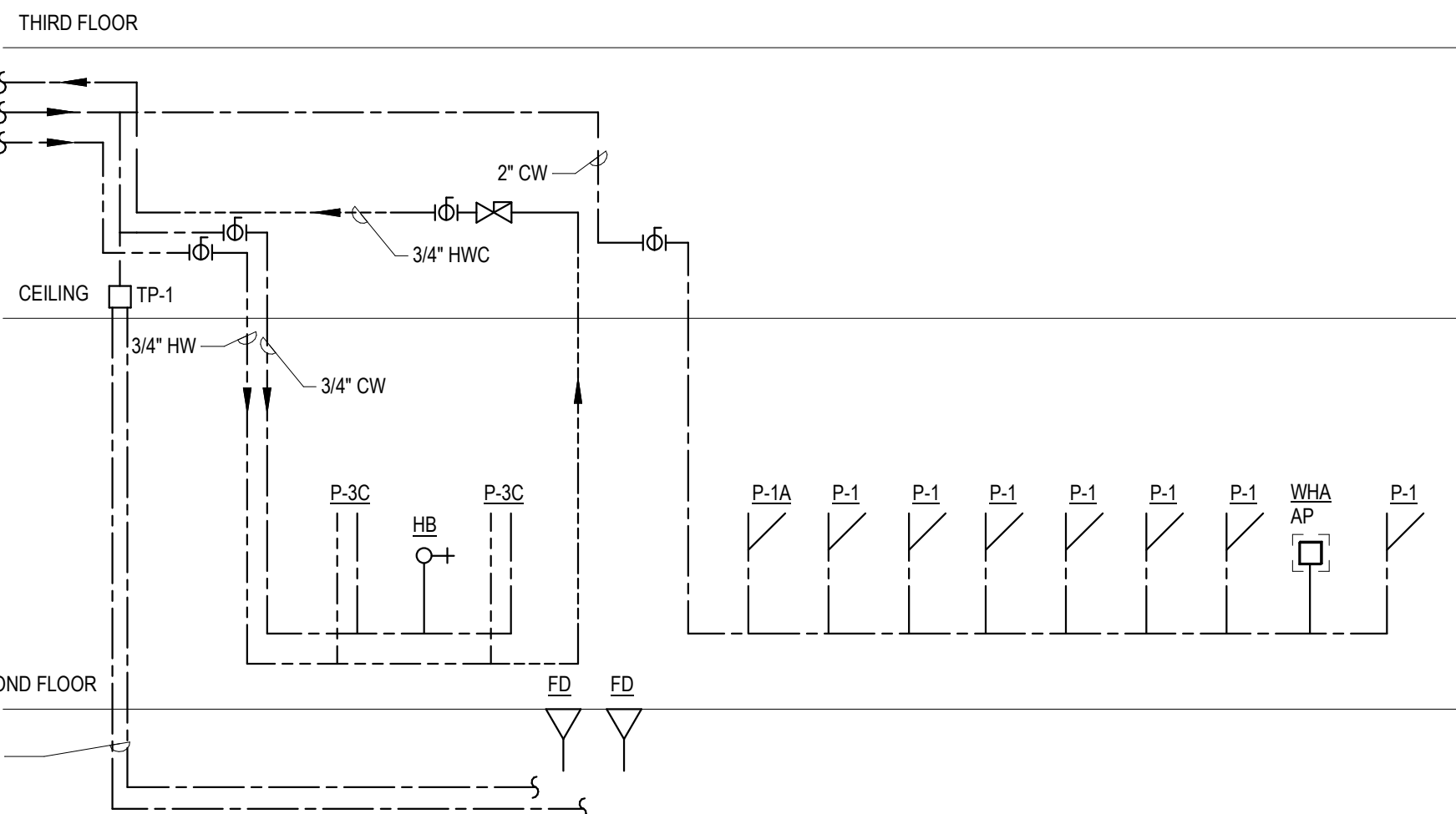


12 TOILET ROOM B217 WATER RISER  
N.T.S.

THIRD FLOOR

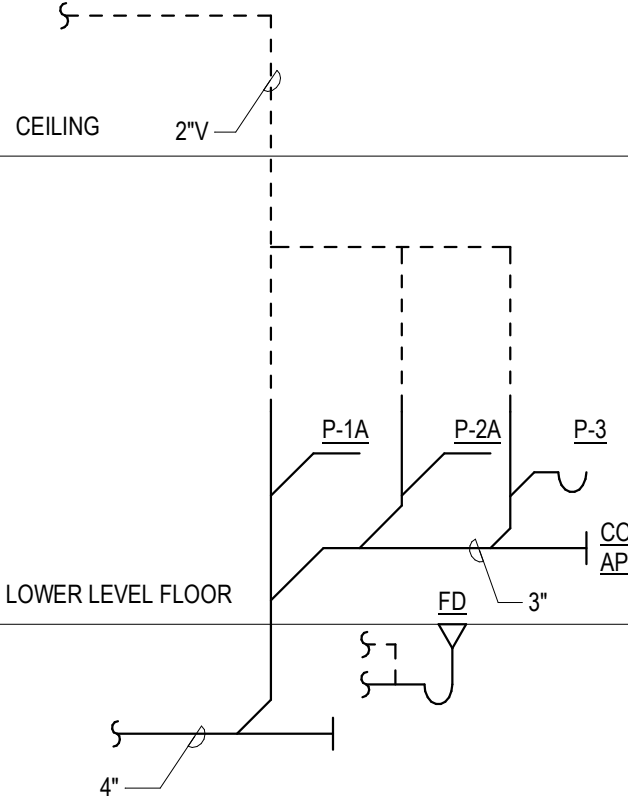


13 TOILET ROOM B228 SANITARY RISER  
N.T.S.

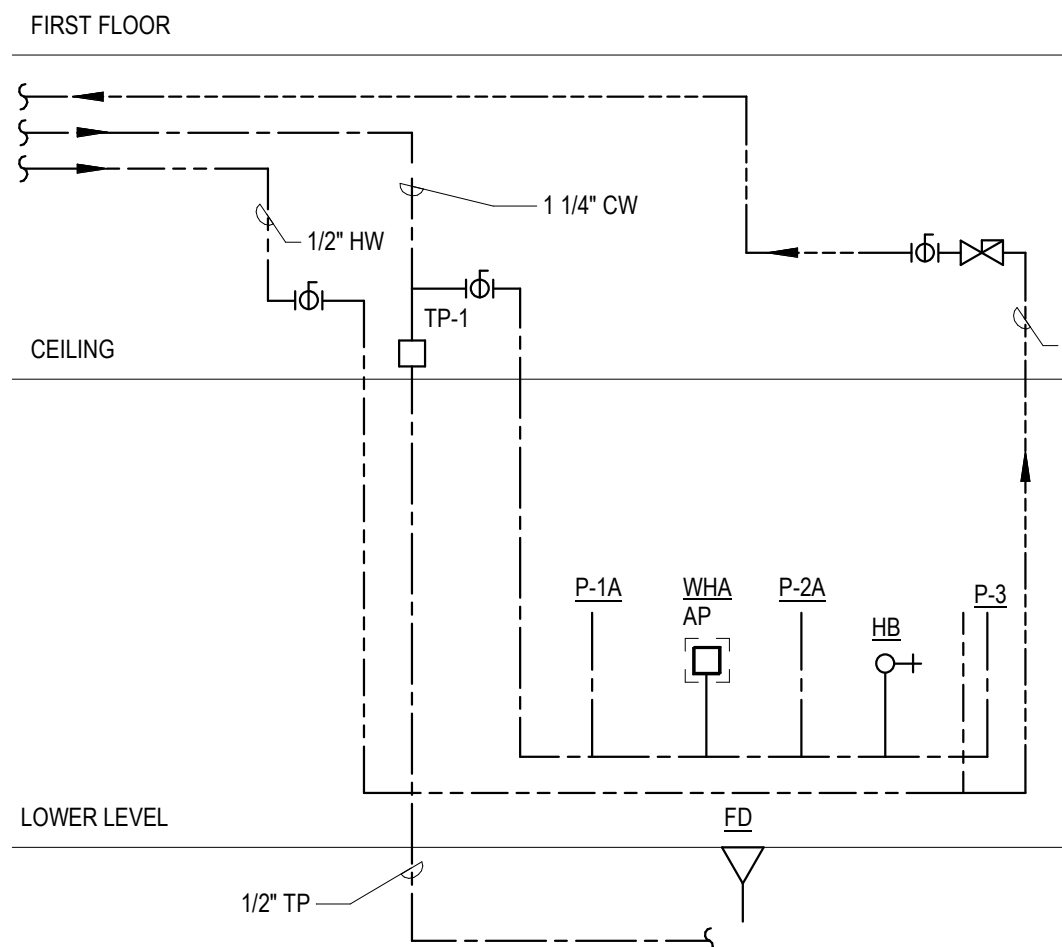


14 TOILET ROOM B228 WATER RISER  
N.T.S.

FIRST FLOOR

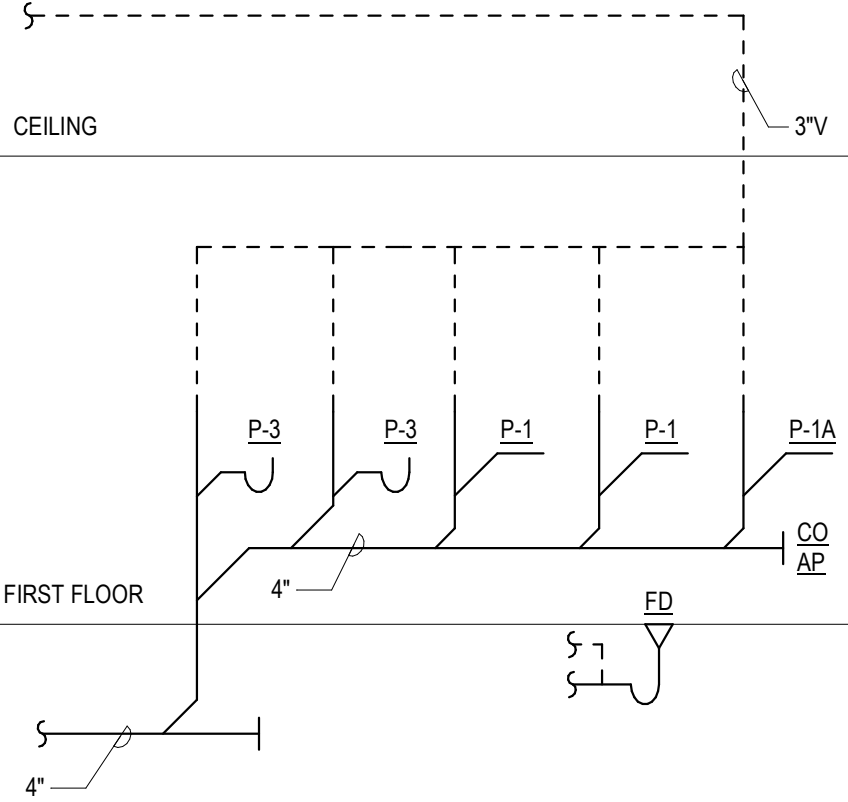


15 TOILET ROOM C022C SANITARY RISER  
N.T.S.

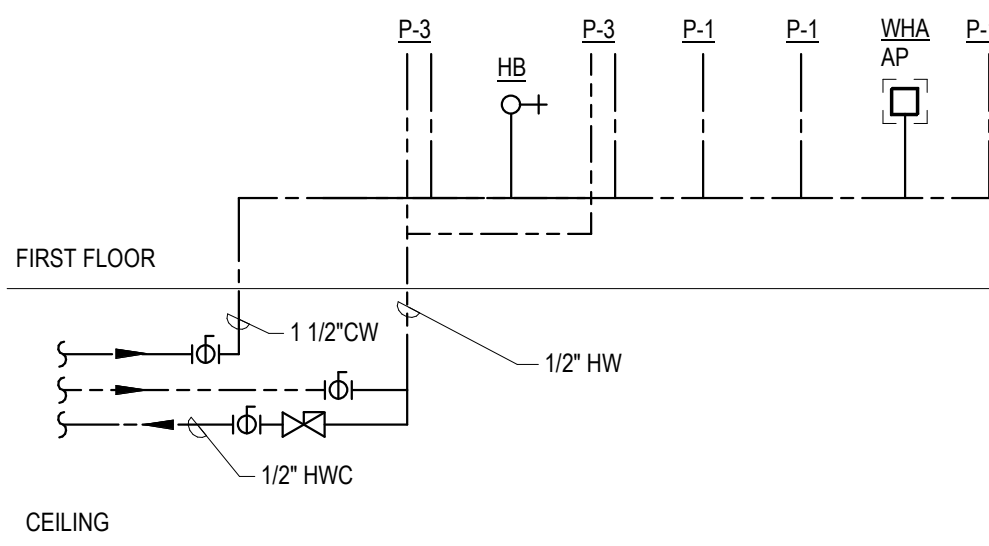


16 TOILET ROOM C022C WATER RISER  
N.T.S.

SECOND FLOOR

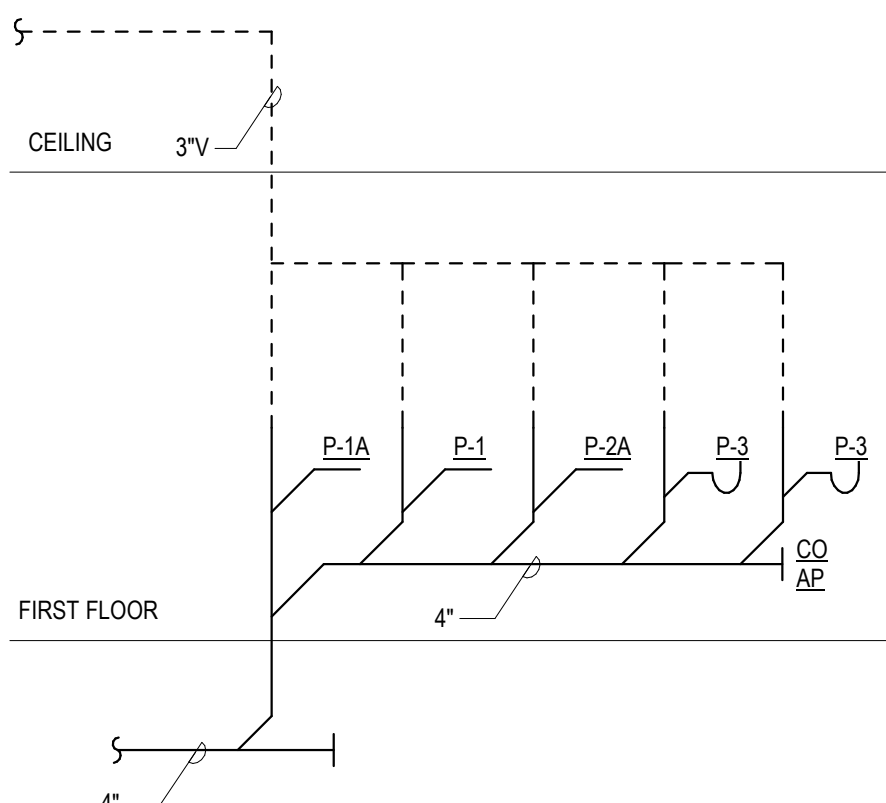


17 TOILET ROOM C106G SANITARY RISER  
N.T.S.

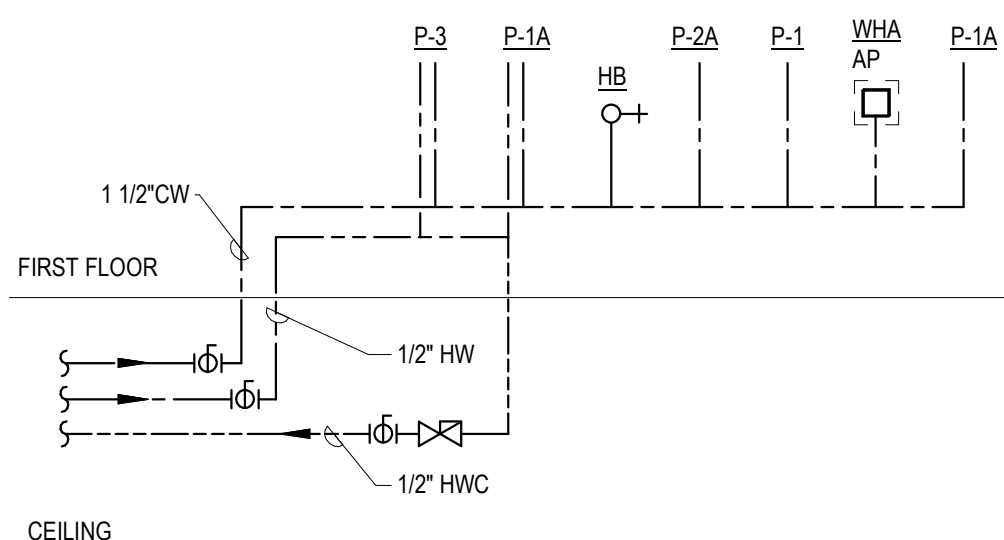


18 TOILET ROOM C106G WATER RISER  
N.T.S.

SECOND FLOOR

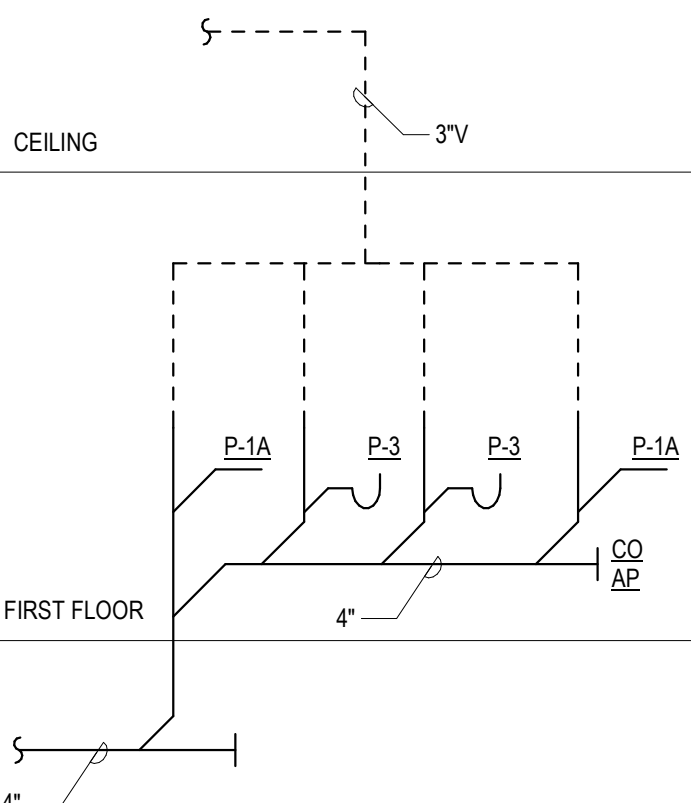


19 TOILET ROOM C112 SANITARY RISER  
N.T.S.

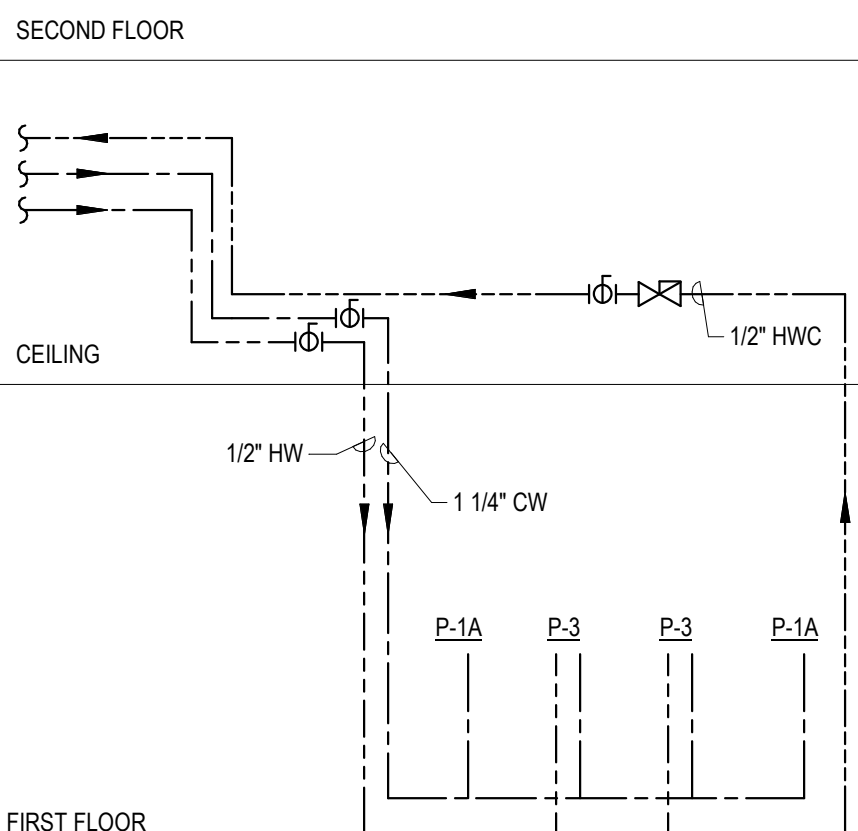


20 TOILET ROOM C112 WATER RISER  
N.T.S.

SECOND FLOOR

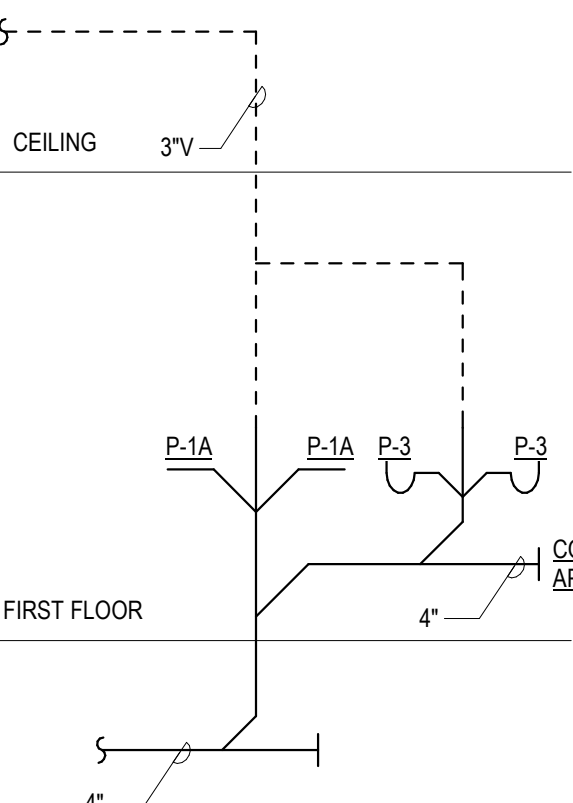


21 TOILET ROOMS A106-A107 SANITARY RISER  
N.T.S.

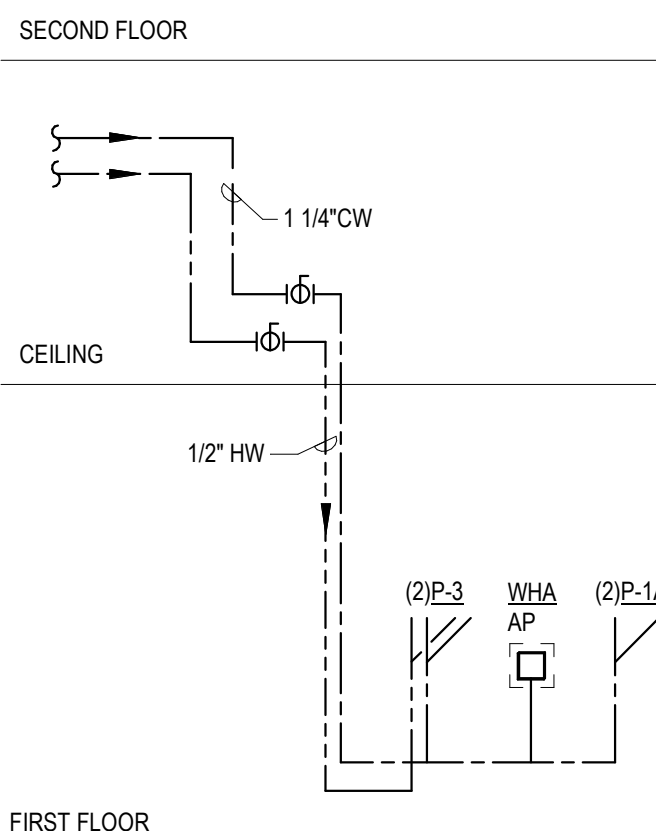


22 TOILET ROOMS A106-A107 WATER RISER  
N.T.S.

SECOND FLOOR

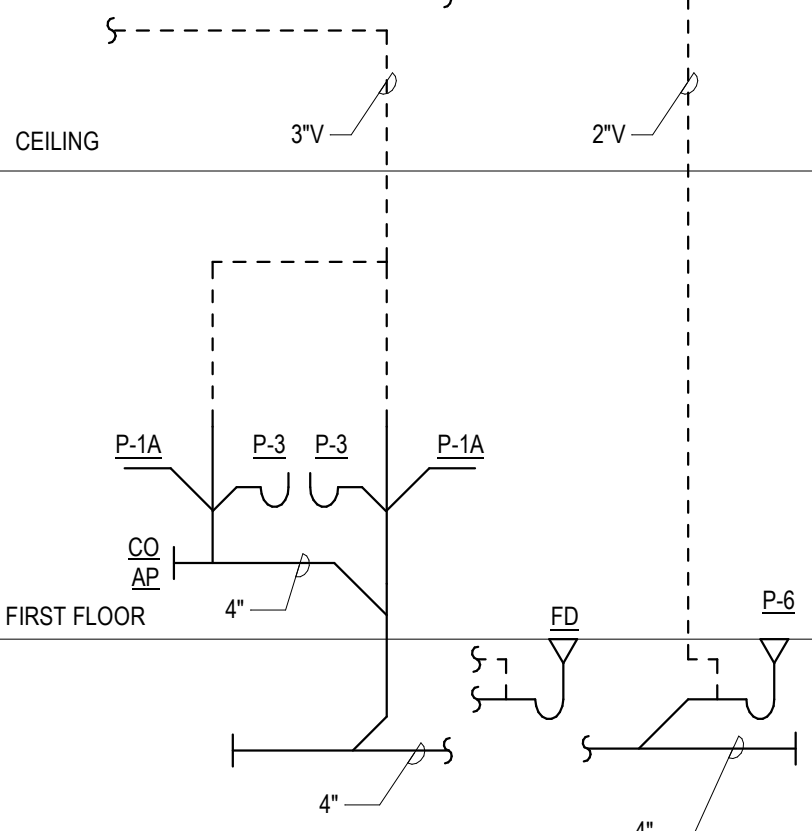


23 TOILET ROOMS A133-A134 SANITARY RISER  
N.T.S.

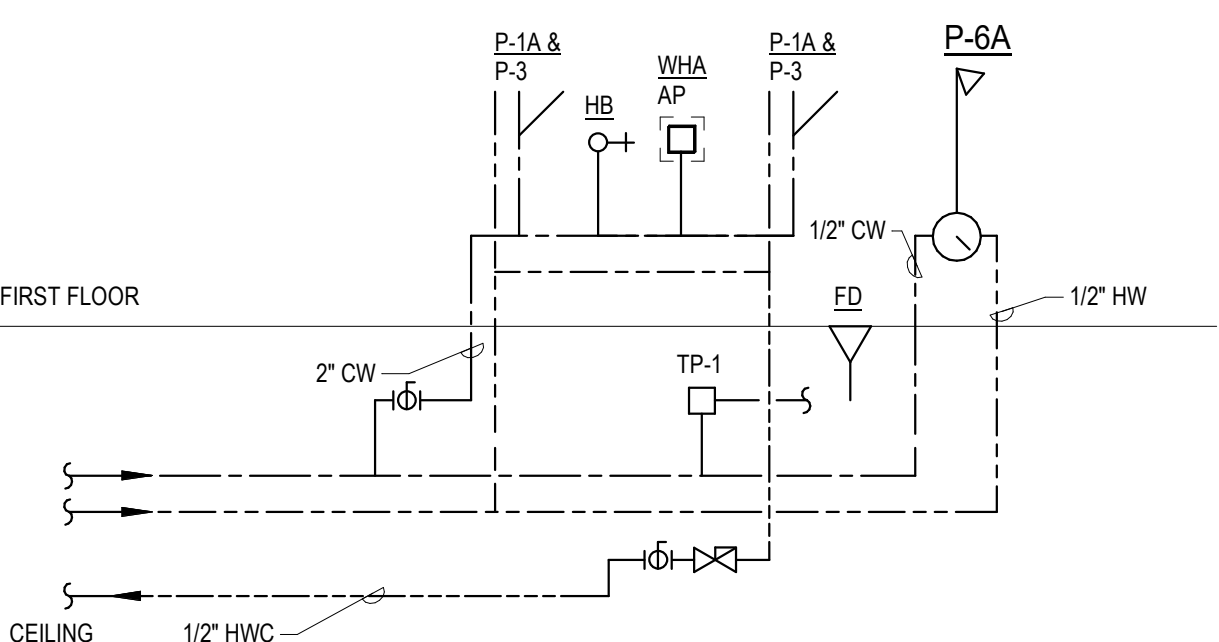


24 TOILET ROOMS A133-A134 WATER RISER  
N.T.S.

SECOND FLOOR

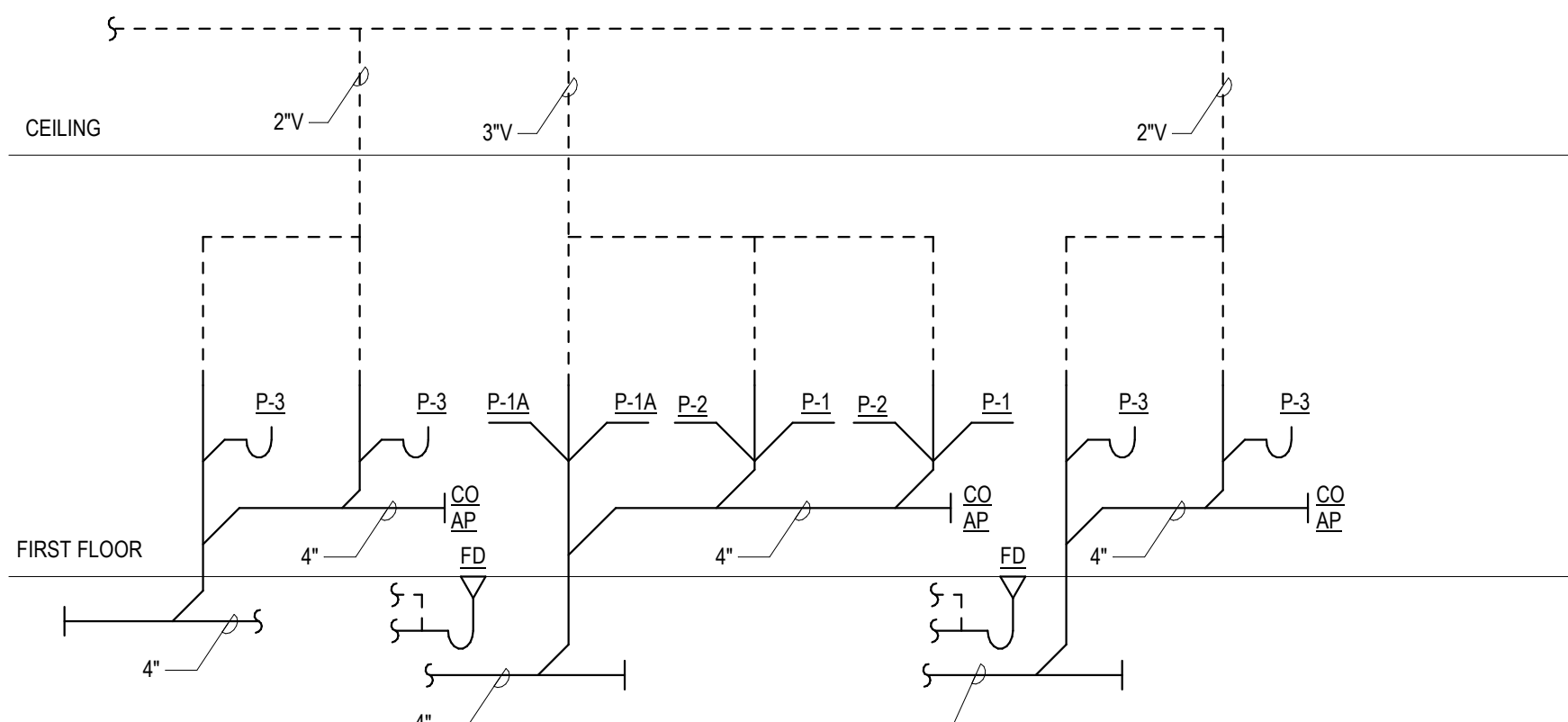


25 TOILET ROOMS D116A/D117E SANITARY RISER  
N.T.S.

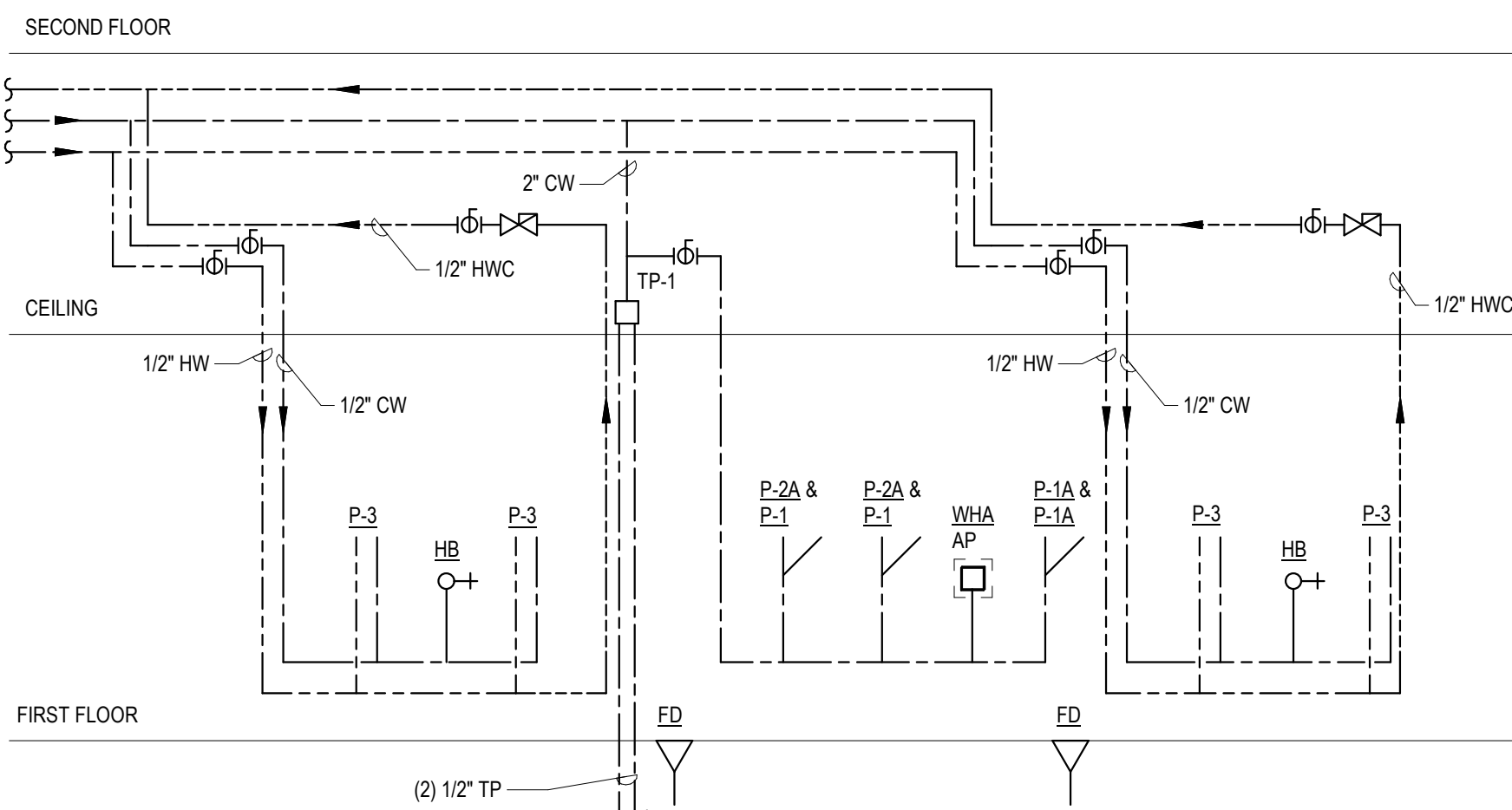


26 TOILET ROOMS D116A/D117E WATER RISER  
N.T.S.

SECOND FLOOR



27 TOILET ROOMS A142-A143 SANITARY RISER  
N.T.S.



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

DRA

Drummay Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.dra-inc.com

Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

© COPYRIGHT 2021 DRUMMAY ROSANE ANDERSON, INC.

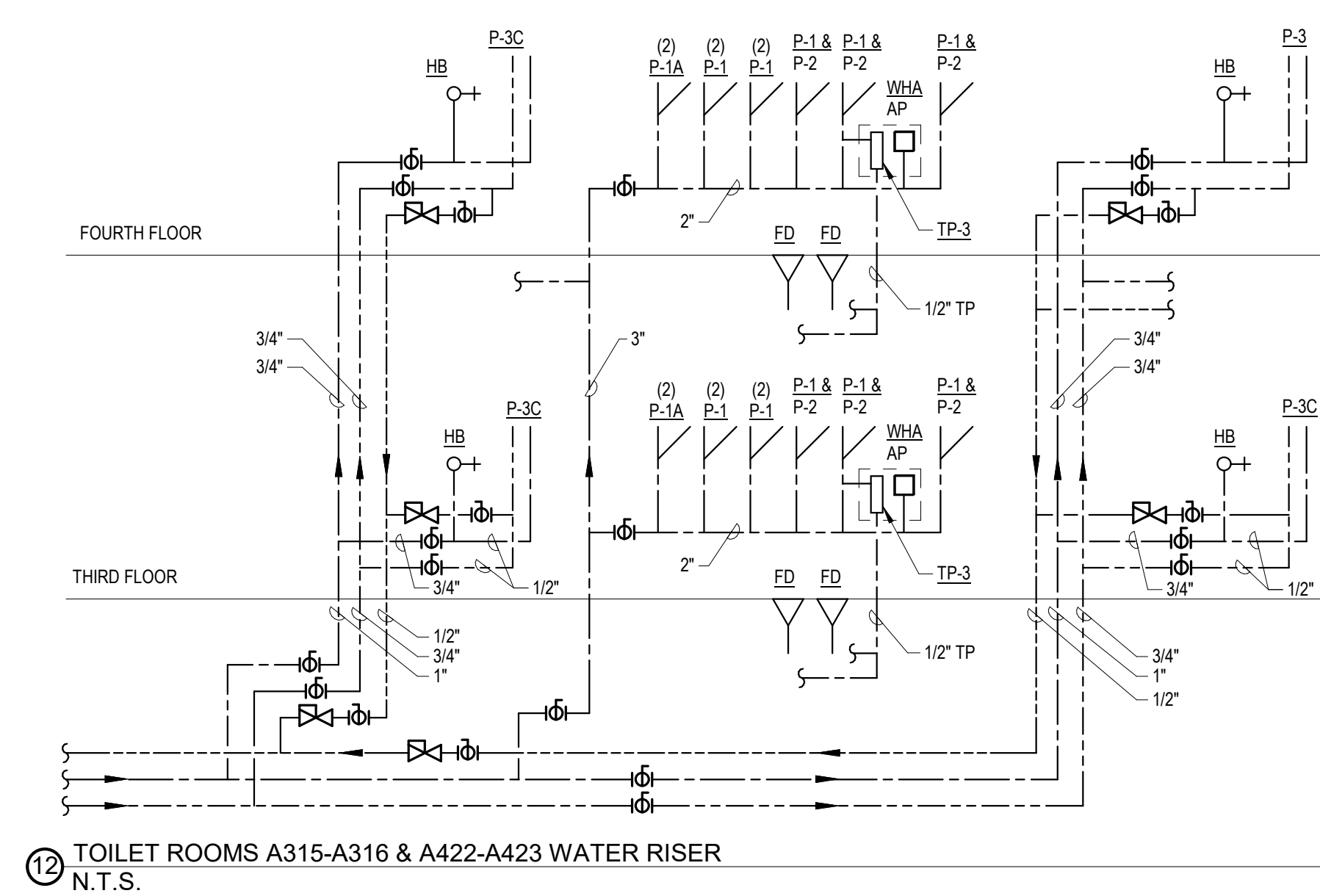
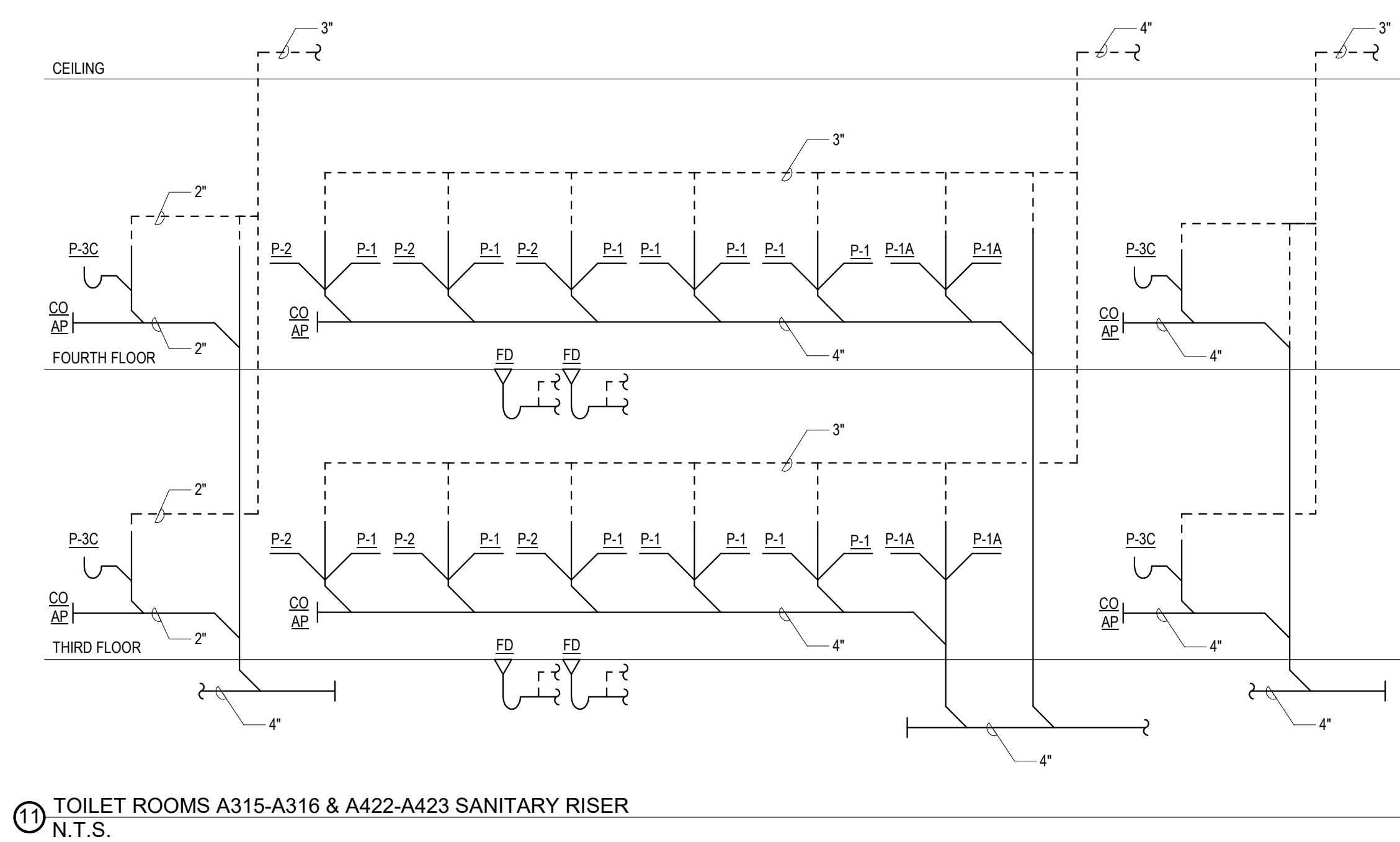
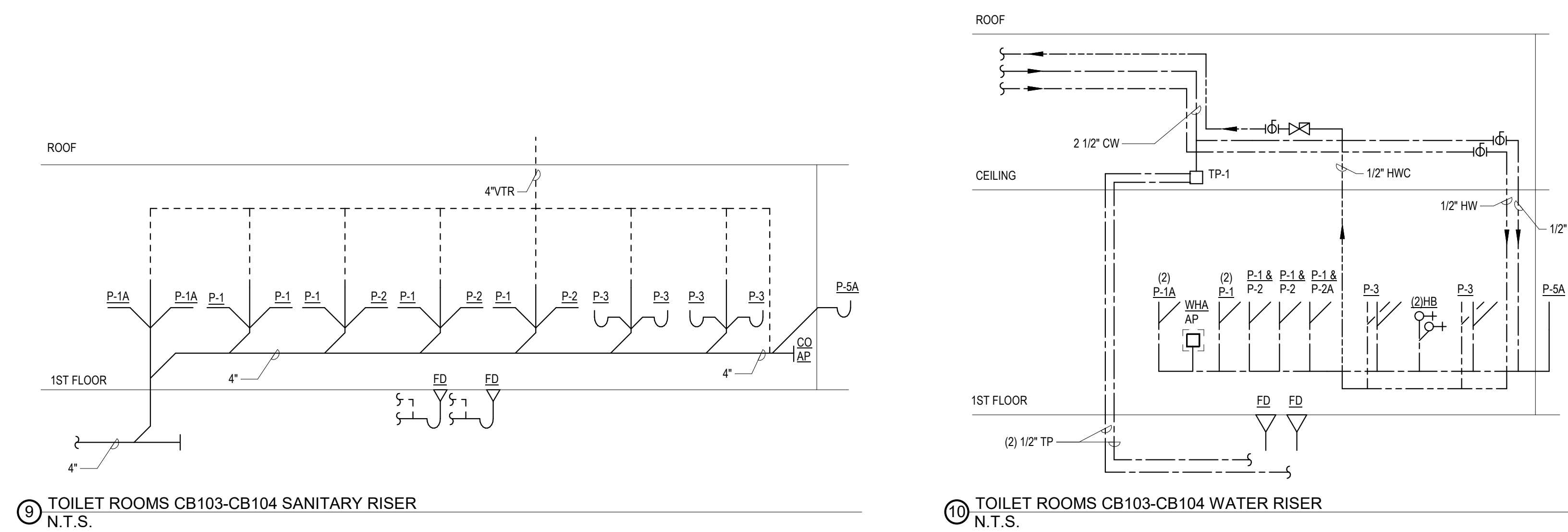
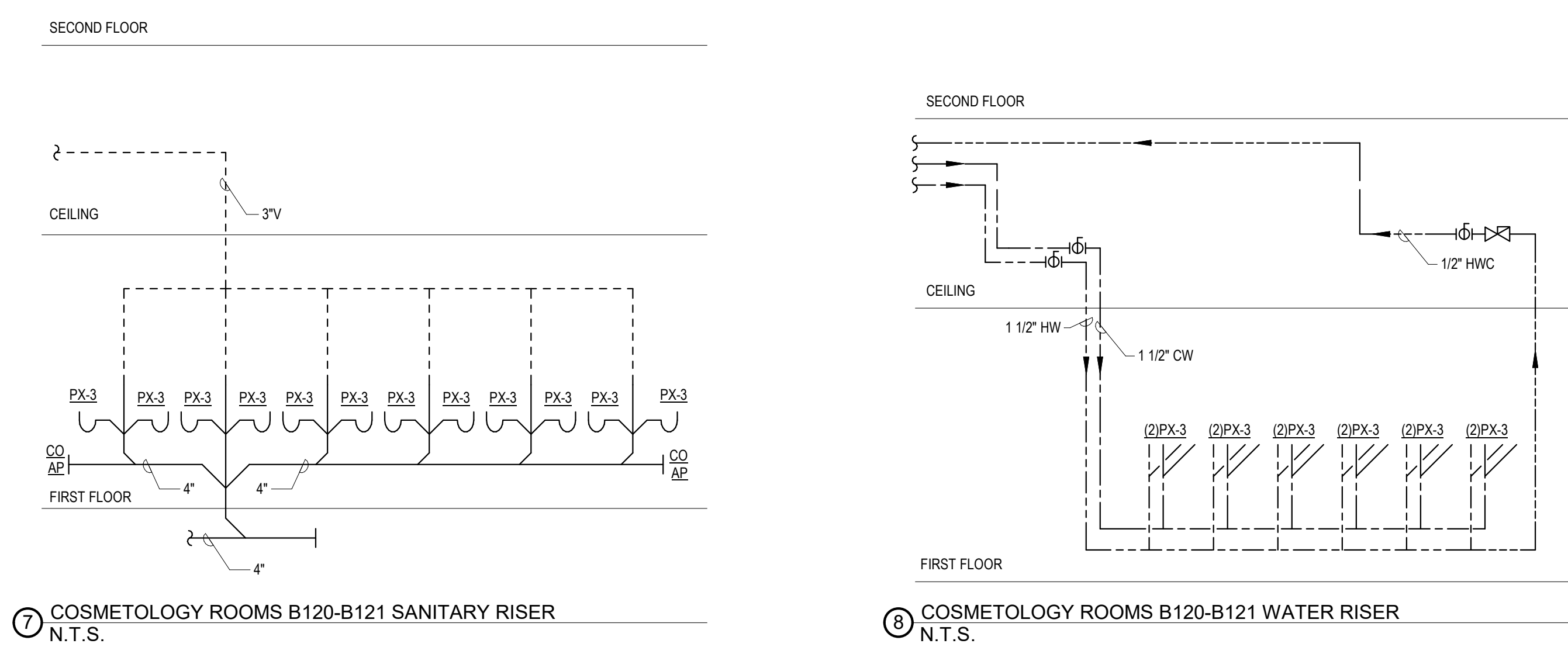
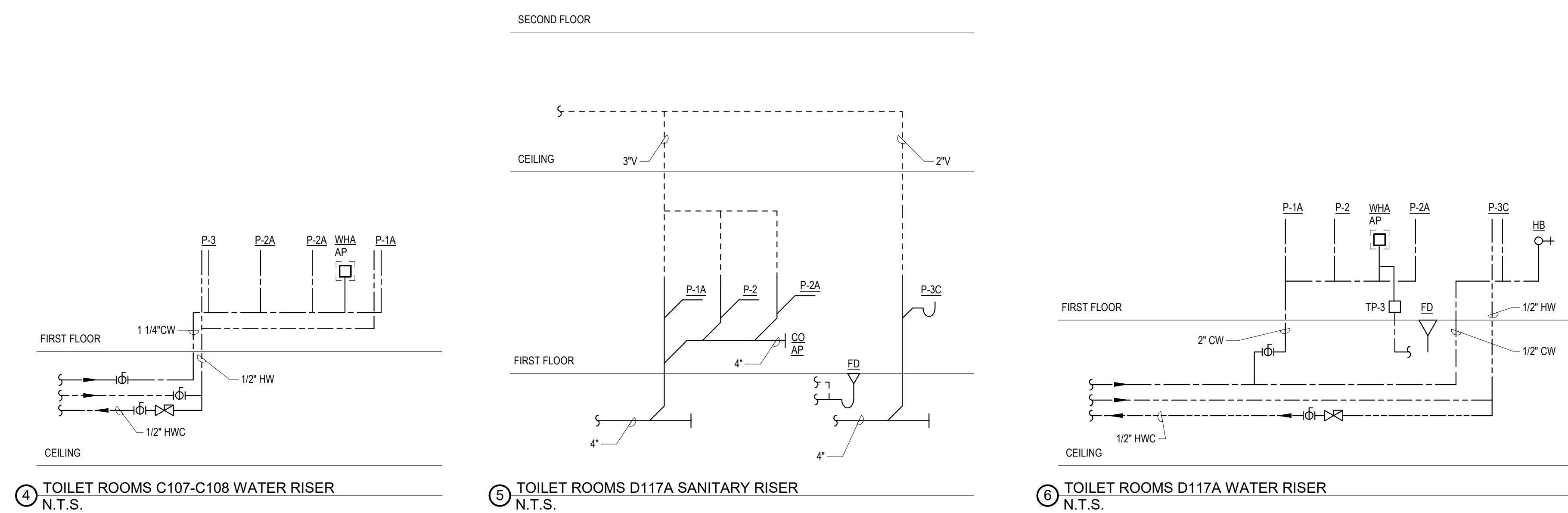
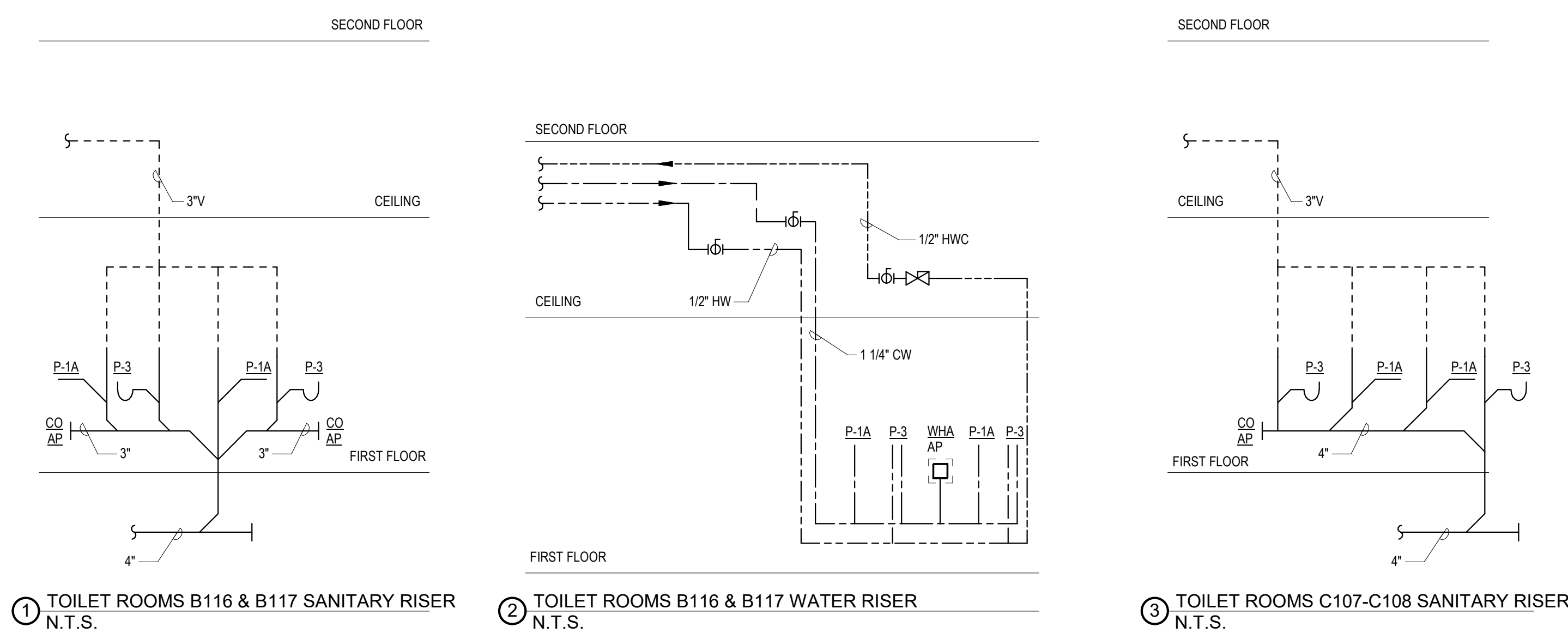
BALA  
ENGINEERS  
BALA CONSULTING ENGINEERS, INC.  
300 WILSON ST., SUITE 200  
WILSON, MA 01890  
TEL: 978.255.1111 FAX: 978.255.1112  
WWW.BALA-ENGINEERS.COM

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

PROJECT NORTH  
MAGNETIC NORTH

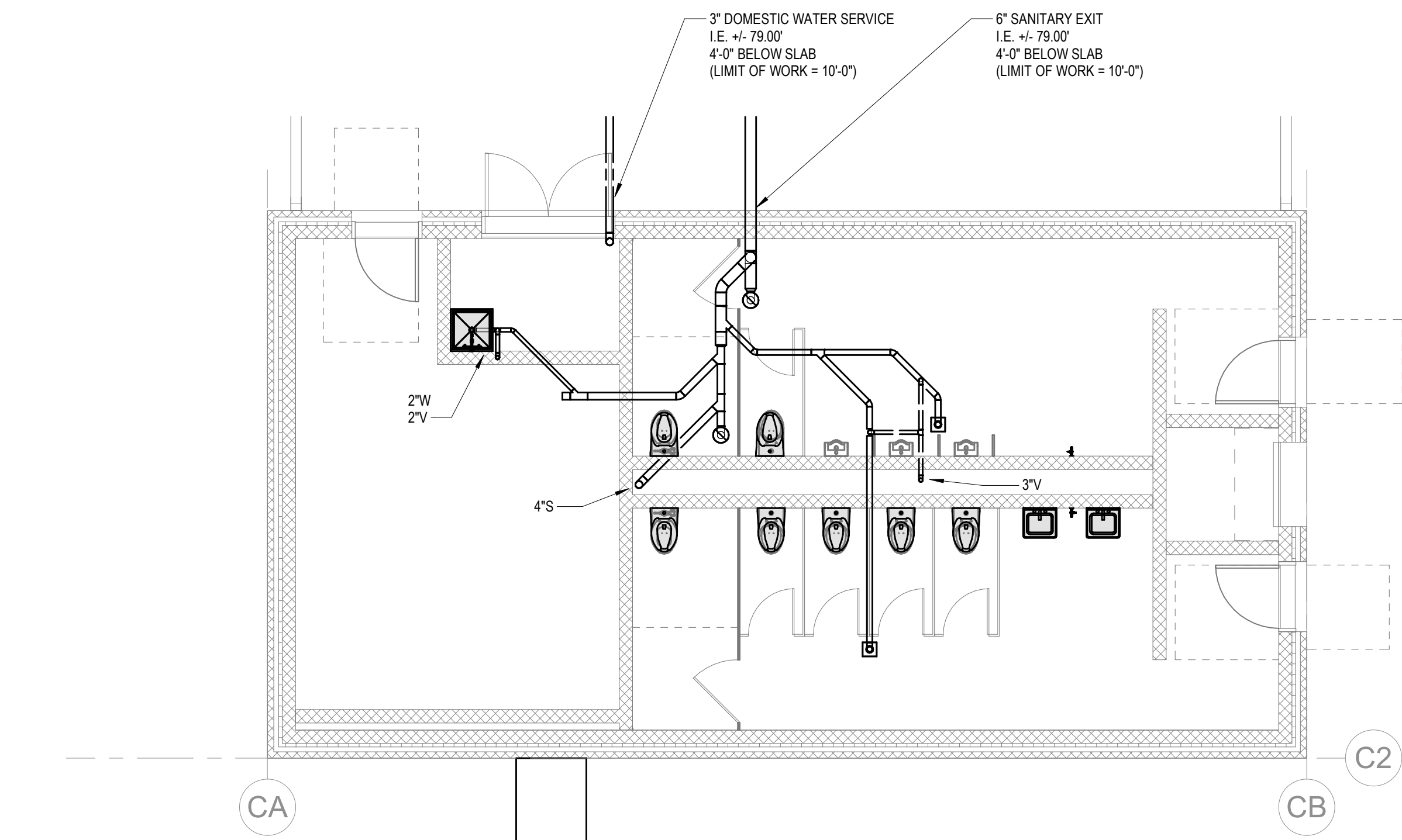
PLUMBING  
RISER

Scale: N.T.S.  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023  
P5-0-1

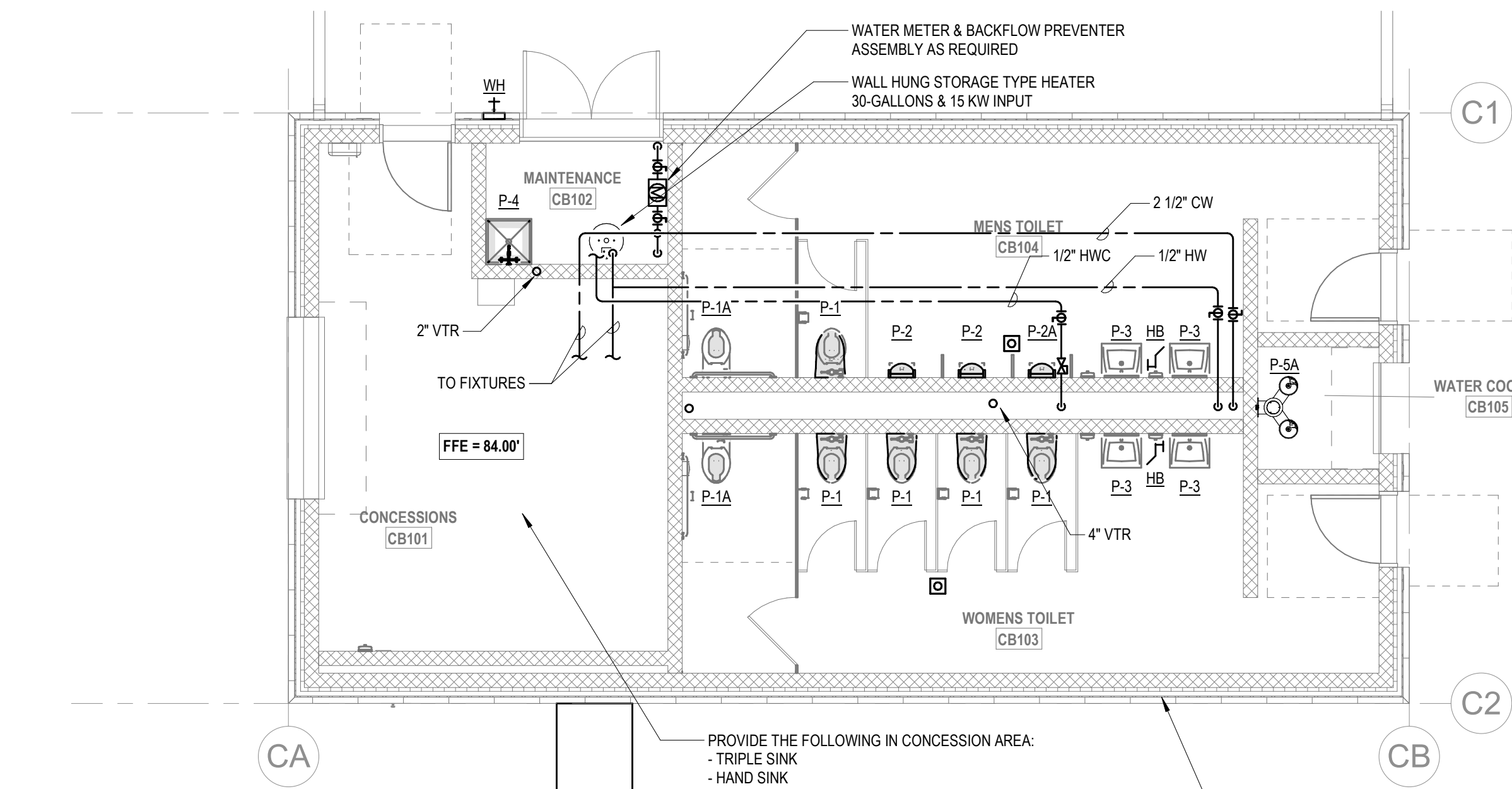




SCOPE NOTE:  
SCOPE OF WORK FOR THIS BUILDING SHALL BE PRICED AS AN ADD ALTERNATE.



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



1 PLUMBING - CONCESSIONS FLOOR LEVEL PLAN  
PC-1-1 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.

DRA

Drummeey Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
260 Charles Street  
Studio 300  
Waltham, MA  
02453  
Planning | Architecture | Interior Design  
Tel: 617.984.1700  
www.draan.com

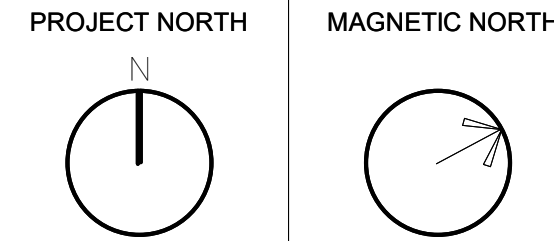
Northeast  
Metropolitan  
Regional  
Vocational High  
School

Wakefield, MA 01880

© COPYRIGHT 2021 DRUMMEY ROSANE ANDERSON, INC.

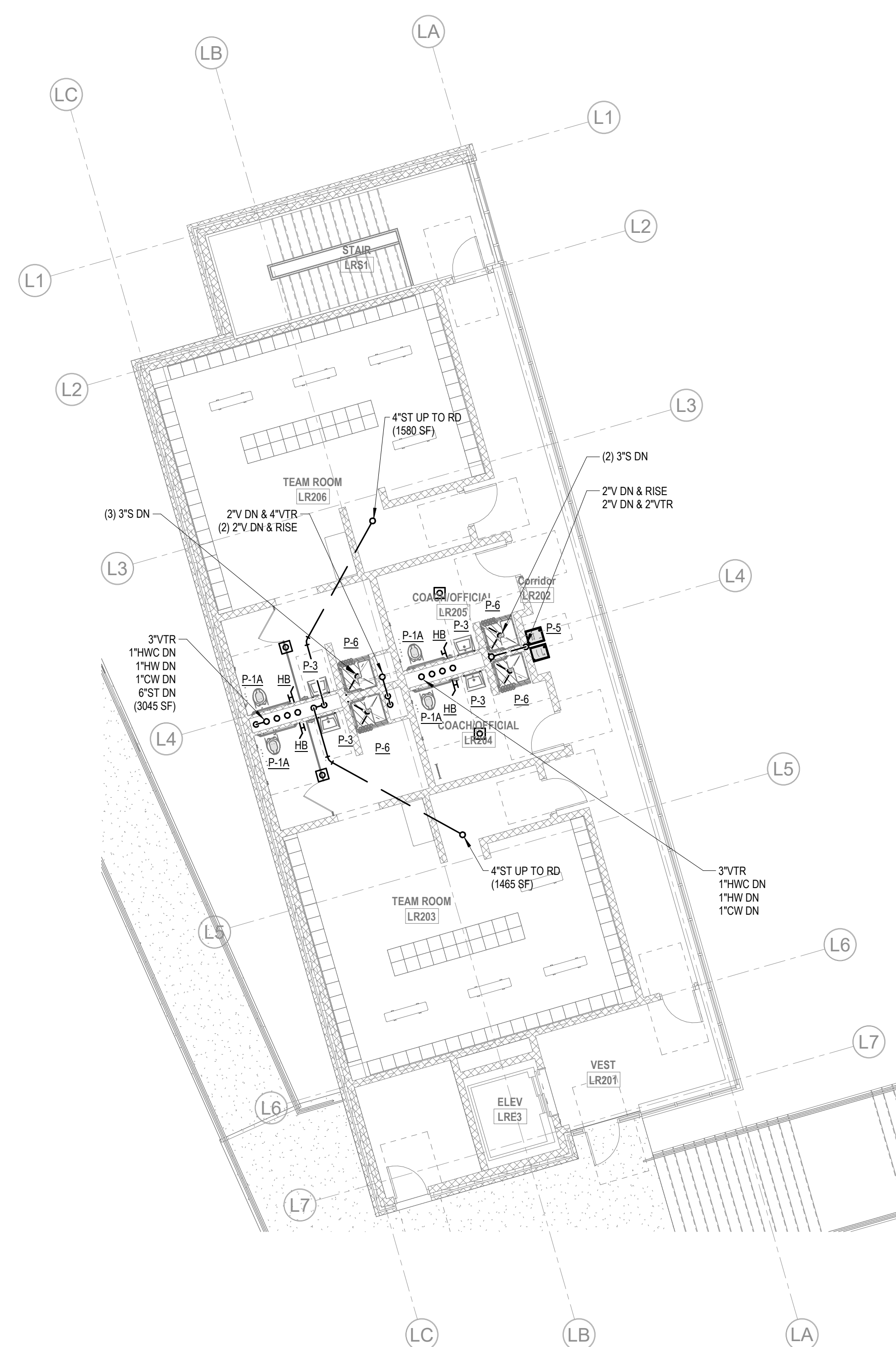
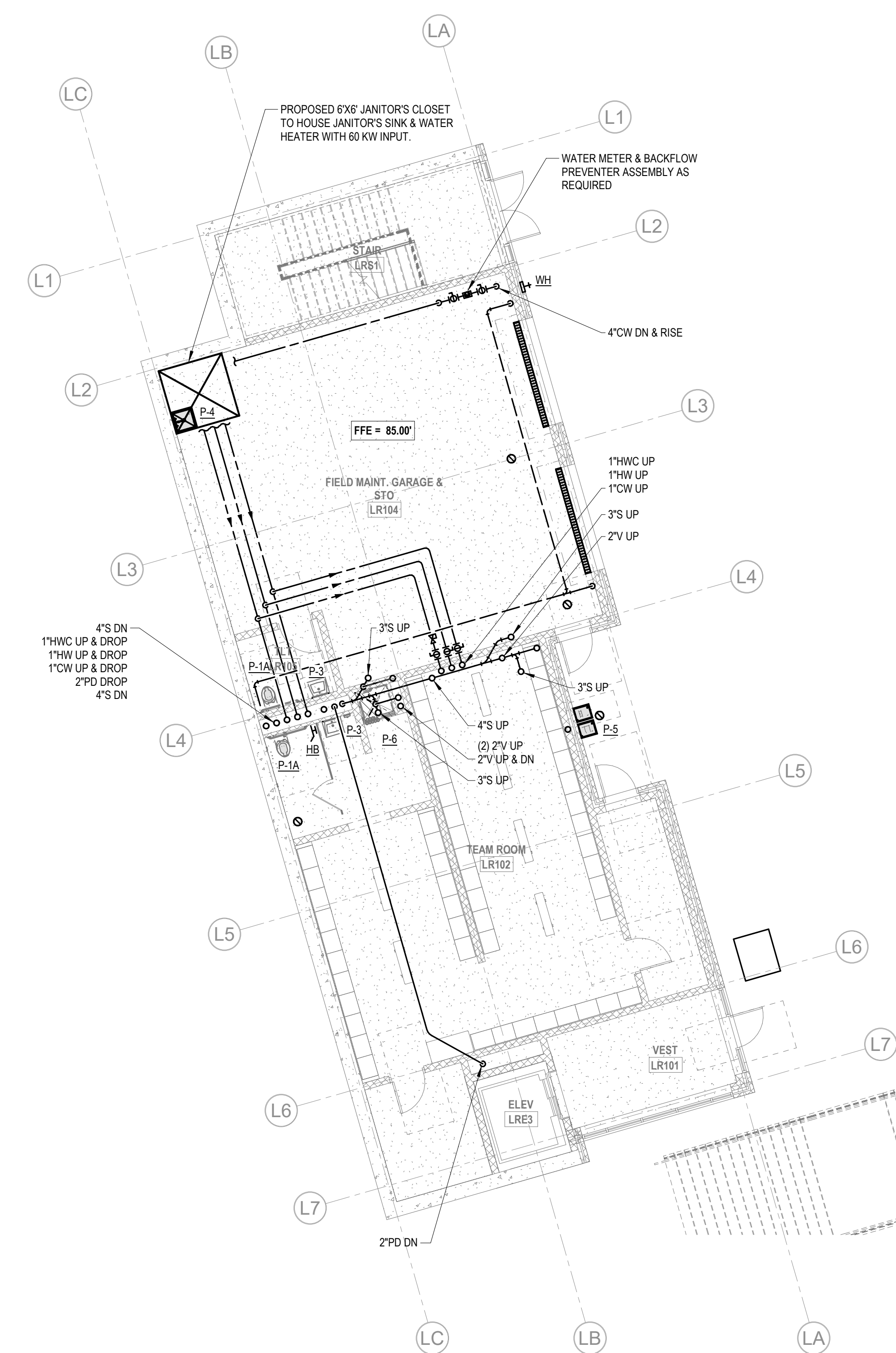
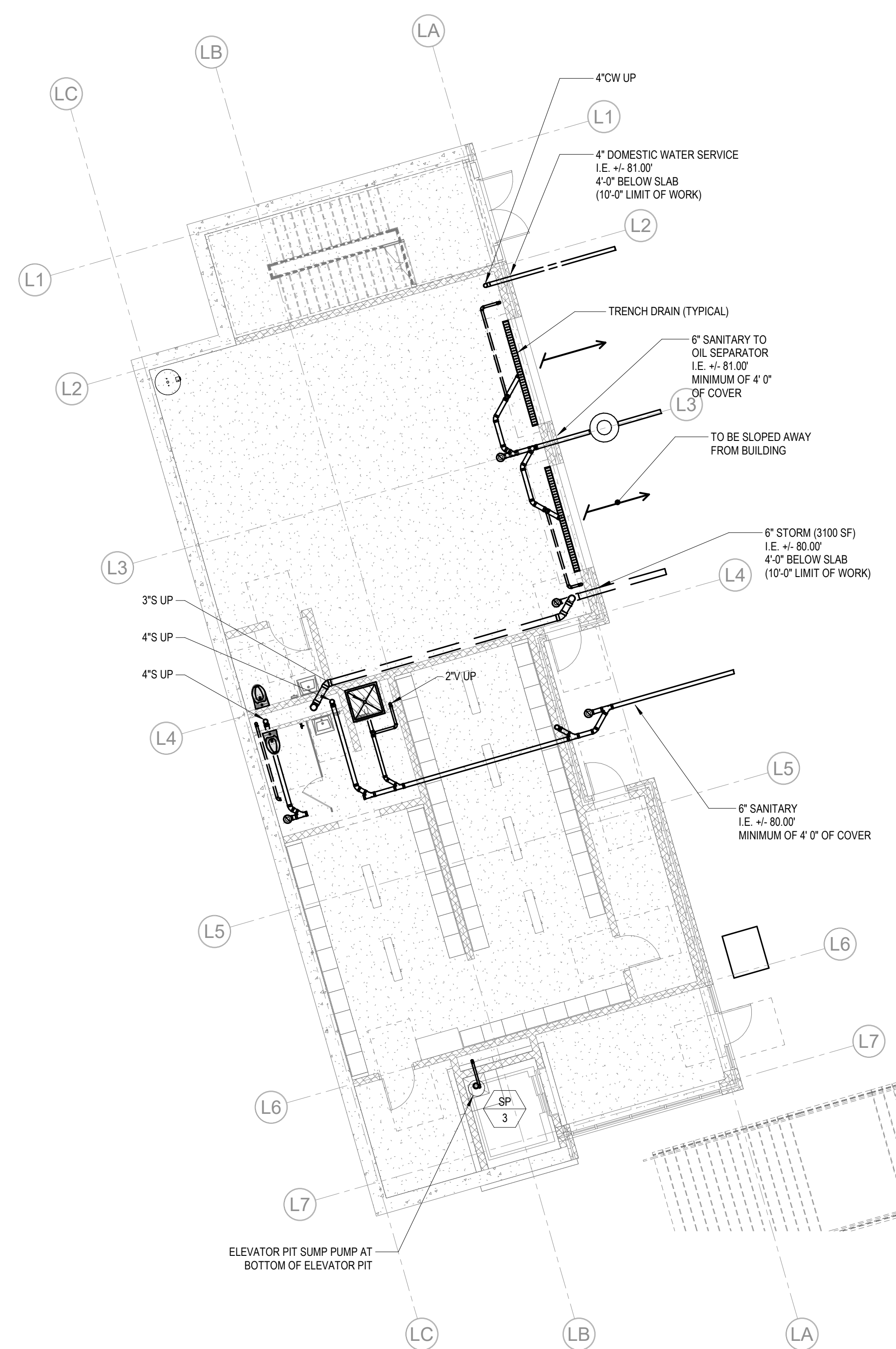
BALA  
ENGINEERS  
BALA CONSULTING ENGINEERS, INC.  
300 WEST 10TH STREET  
NEW YORK, NY 10014  
TEL: 212.693.1200 FAX: 212.693.1201  
WWW.BALA-ENGINEERS.COM  
REGISTERED PROFESSIONAL ENGINEERS  
NEW YORK LICENSE NO. 00000000000000000000

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023



PLUMBING  
CONCESSIONS  
FLOOR LEVEL  
PLAN

Scale: 3/16" = 1'-0"  
Job No. 160-20-409  
Drawn By: Author  
Date: May 12th, 2023  
PC-1-1



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

DRA

**Drummeys Rosane Anderson, Inc.**

225 Oakland Road	260 Charles Street
Studio 205	Studio 300
South Windsor, CT	Waltham, MA
06074	02453

**Planning | Architecture | Interior Design**

Tel: 617.964.1700  
[www.draies.com](http://www.draies.com)

**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

**BALA**  
ENGINEERS

MSBA 90% CD  
Construction Document  
Submittal  
May 12th, 2023

PROJECT NORTH	MAGNETIC NORTH
---------------	----------------

# PLUMBING LOCKER BUILDING PLAN

Scale: 1/8" = 1'-0"  
Job No.: 60-20-409  
Drawn By: Author  
Date: May 12th, 2023