		$\left  \right $
AFF	ABOVE FINISHED FLOOR	
BTU	BRITISH THERMAL UNIT	
BTUH	BTU PER HOUR	
CLG	CEILING	
CO	CLEAN OUT	
CODP	CLEAN OUT DECK PLATE	
COWP	CLEAN OUT WALL PLATE	
CW	COLD WATER	
(D)	DEMOLISH	
DCV	DOUBLE CHECK VALVE DEVICE	
DEG. F	° FAHRENHEIT	
DIA	DIAMETER	
DN	DOWN	
(E)	EXISTING	
EA	EACH	
FAI	FRESH AIR INTAKE	
FD	FLOOR DRAIN	
F.P.C.	FIRE PROTECTION CONTRACTOR	1
G	GAS	
'GC'	GENERAL CONSTRUCTION CONTRACTOR	
GPM	GALLONS PER MINUTE	
GPH	GALLONS PER HOUR	
'H'	HVAC CONTRACTOR	
HP	HORSEPOWER	
HW	HOT WATER	
HWR	HOT WATER RETURN	
IN.	INCHES	
IN. W.C.	INCHES WATER COLUMN (WATER GAUGE)	
(W.G.) KW	KILOWATTS	
LBS	POUNDS	
 M	METER	
MAX	MAXIMUM	
MIN	MINIMUM	
NTS	NOT TO SCALE	
OD	OUTER DIAMETER	
(P)	PROPOSED	
(r) 'P'	PROPOSED PLUMBING CONTRACTOR	
P PD	PRESSURE DROP	
	ROOF DRAIN	
RD		
RPM		
RPZ	REDUCED PRESSURE ZONE	
SAN / S	SANITARY	$\left  \right $
ST	STORM DRAIN	
TEMP	TEMPERATURE	
TYP	TYPICAL	
TW	TEMPERED WATER (110°F)	
TWR	TEMPERED WATER RETURN	
V	VENT	
VTR	VENT THROUGH ROOF	

LEGEND				
SYMBOL	DESCRIPTION			
O	PIPING UP			
C	PIPING DOWN			
C	PIPING RISE OR DROP			
	BRANCH-TOP CONNECTION			
	BRANCH-BOTTOM CONNECTION			
	REDUCER			
	CLEANOUT			
· · · · · · · · · · · · · · · · · · ·	FLOOR CLEANOUT			
	CAPPED PIPE			
(M)	METER			
	FLOOR DRAIN			
$\bigcirc$	AQUASTAT			
	PUMP			
	STRAINER			
<u> </u>	UNION			
	THERMOSTATIC MIXING VALVE			
	BALANCING VALVE (BLV)			
	GLOBE VALVE (GLV)			
	CHECK VALVE (CV)			
	GAS COCK, GAS STOP			
	BALL VALVE (BV)			
	BUTTERFLY VALVE (BFV)			
\$چ	SOLENOID VALVE			
	PRESSURE-REDUCING VALVE (PRV)			
	GATE VALVE (GV)			
	PRESSURE-RELIEF VALVE (RV)			
+×H \\ \++				
 	FROST FREE HOSE BIBB			
	HOSE BIBB RECESSED-BOX HOSE BIBB OR			
	WALL HYDRANT			
	VALVE IN RISER			
X J X	WALL CLEANOUT (WCO) PITCH DOWN OR UP IN DIRECTION			
	OF ARROW			
·	FLOW IN DIRECTION OF ARROW			
	COLD WATER (CW)			
	TEMPERED WATER (TW)			
	HOT WATER (HW)			
	TEMPERED WATER RETURN (TWR)			
	HOT WATER RETURN (HWR)			
	WASTE PIPING (W,S,OW)			
	BELOW SLAB WASTE PIPING			
	VENT PIPING (V)			
	GAS PIPING (G)			
	POINT OF CONNECTION			
	POINT OF DISCONNECTION			
L	1			

# **GENERAL PLUMBING NOTES**

- ARCHITECT/ENGINEER PRIOR TO THE SUBMISSION OF BIDS.

- PURCHASING ANY EQUIPMENT.
- 8 OR EQUIPMENT IS REQUIRED.
- PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- MANUFACTURER CERTIFIED ACCURACY.
- WORK.
- MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
- JURISDICTION.
- REMOVAL.
- WALLS.
- 80 P.S.I.G.
- 23. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
- THEIR APPROVAL.
- TESTED FOR LOW LEAD.

- TEMPERATURE OF 110 DEGREES F.
- NATIONAL STANDARD PLUMBING CODE, NEW JERSEY EDITION.
- A112.21.3).
- REQUIREMENTS SHALL BE APPLIED TO THE PROJECT.

- FOOTING PENETRATIONS.
- 38. COVER ALL COPPER PIPING BELOW SLAB WITH \*ARMAFLEX\* TYPE INSULATION.

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE

PERFORM ALL WORK IN ACCORDANCE WITH THE 2021 NATIONAL STANDARD PLUMBING CODE, NEW JERSEY EDITION (NSPC), THE 2021 NEW JERSEY STATE MECHANICAL (NJSMC), AND FUEL GAS (NJSFGC) CODES, THE 2015 NEW JERSEY STATE FIRE PREVENTION CODE (NJSFC), ASHRAE 90.1-2019, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

4. APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.

5. DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.

COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO

FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL

INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL

10. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE

11. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.

12. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION

13. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED. 14. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS

15. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD

16. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES

17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

18. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER

19. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING

20. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR

21. PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED

22. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF

24. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE 2021 NATIONAL STANDARD PLUMBING CODE, NEW JERSEY EDITION. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN

25. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.

26. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE

27. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER ASHRAE 90.1-2019 PROVISIONS.

28. ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.

29. HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM

30. ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN CHAPTER 7 OF THE 2021

31. ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1052 AND ASME

32. ALL SANITARY FITTINGS SHALL BE 'WYE' TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.

33. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN DESIGN PLANS, RISER DIAGRAMS, AND/OR SPECIFICATIONS CONCERNING PIPE SIZES, FIXTURES, AND/OR EQUIPMENT, THE MOST STRINGENT

34. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.

35. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

36. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.

37. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL

## FUEL GAS NOTES

- PERFORM ALL WORK IN ACCORDANCE WITH NFPA 54 NATIONAL FUEL GAS CODE, THE 2021 NEW JERSEY STATE FUEL GAS CODE (NJSFGC), 2021 PSEG NJ BOOK, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- THE DEPTH OF COVER FOR ALL GAS SERVICE PIPING SHALL BE 24 INCHES. THE WATER SERVICE SHALL BE KEPT A MINIMUM OF 10-FEET FROM THE INCOMING GAS SERVICE MEASURED IN ANY DIRECTION.
- 4. IF ELECTRIC AND GAS SHARE A COMMON TRENCH. THE TRENCH MUST BE WIDE ENOUGH TO MAINTAIN A 6-INCH MINIMUM SEPARATION DISTANCE.
- LOCATION OF PROPOSED GAS METER ON CONTRACT DOCUMENTS ARE SUBJECT TO CHANGE BY THE LOCAL UTILITY COMPANY
- REFER TO THE LOCAL UTILITY COMPANY HANDBOOKS FOR METER RIG CONSTRUCTION DETAILS, RULES AND REGULATIONS. THIS INCLUDES, BUT NOT LIMITED TO LOCATION OF STEP DOWN REGULATORS, METER SIZE AND SET LENGTHS, VENTING OF REGULATORS, BYPASS PIPING, BOLLARD REQUIREMENTS, CONCRETE PAD, SUPPORTS, AND SHUT OFF VALVES.
- GAS PIPING: 7.1. INDOOR - STEEL PIPE- SCHEDULE 40 WITH WELDED OR THREADED JOINTS. THREADED JOINTS SHALL BE 150 POUND
- MALLEABLE IRON, FORGED STEEL, BLACK IRON, OR GALVANIZED STEEL. 7.2. OUTDOOR - ABOVE GROUND - GALVANIZED PIPE OR PROPERLY COATED BLACK STEEL PIPE WITH SCREWED OR THREADED JOINTS.
- 7.3. BELOW GRADE STEEL PIPE- MILL WRAPPED SCHEDULE 40 WITH WELDED OR THREADED JOINTS
- 7.4. WELDED JOINTS MUST BE USED FOR GAS PIPING LARGER THAN 4-INCH, OR 3-INCH FOR SCHOOLS. 8. GAS PIPING ENTERING A BUILDING SHALL BE ABOVE GRADE. PENETRATIONS THROUGH BURIED WALLS ARE NOT
- PERMITTED. 9. WHERE GAS PIPING IS INSTALLED BELOW GRADE INSIDE A BUILDING, THE GAS PIPING MUST BE INSTALLED IN A CONDUIT AND BE VENTED TO THE EXTERIOR.
- 10. GAS PRESSURE TEST:
- 10.1. GALVANIZED OR BARE STEEL UP TO 14" W.C. AIR AT 3 PSIG FOR 30 MINUTES 10.2. GALVANIZED OR BARE STEEL - GREATER THAN 14" W.C. - AIR AT 50 PSIG FOR 30 MINUTES
- 10.3. COATED OR WRAPPED LESS THAN 2-INCH AIR AT 90 PSIG FOR 1-HOUR
- 10.3. COATED OR WRAPPED 2-INCH TO 12-INCH AIR AT 90 PSIG FOR 4-HOURS
- 11. SUPPLY ALL GAS-FIRED EQUIPMENT WITH GAS PIPING AS PER THE 2021 NEW JERSEY STATE FUEL GAS CODE. PROVIDE EACH PIECE OF EQUIPMENT WITH A DIRT LEG, UNION AND GAS COCK. PROVIDE A VENTED REGULATOR IF EQUIPMENT REQUIRES LOWER THAN LINE GAS PRESSURE.
- 12. PROVIDE VEHICLE IMPACT PROTECTION FOR NEW METER HEADER. BOLLARDS SHALL BE SPACED NO MORE THAN 4-FEET BETWEEN POSTS ON CENTER AND LOCATED NOT LESS THAN 3-FEET FROM THE PROTECTED OBJECT.
- 13. SHUTOFF VALVES INSTALLED IN TUBING SYSTEMS MUST BE RIGIDLY AND SECURELY SUPPORTED INDEPENDENTLY OF THE TUBING.
- 14. ALL COOKING APPLIANCE CONNECTIONS MUST BE LISTED AND LABELED.

#### MANUAL GAS VALVE STANDARDS OTHER VALVE APPLICATIONS APPLIANCE SHUTOFF VALVE STANDARDS VALVE APPLICATION UP UP TO 1/2 PSIG UP TO 2 PSIG UP TO 5 PSIG TO 1/2 PSIG PRESSURE PRESSURE PRESSURE PRESSURE ANSI Z21.15/CGA9.1 Х \_ \_ \_ ASME B16.44 Х\* X\*\* Х \_ ASME B16.33 Х Х Х Х NOTES: FOR SI: 1 POUND PER SQUARE INCH GAUGE = 6.895 kPa.

X\* IF LABELED 2G X\*\* IF LABELED 5G

## ENERGY NOTES

SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY:

1.1. WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF ASHRAE 90.1-2019

- 1.2. SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH ASHRAE 90.1-2019.
- TEMPERATURE CONTROL: SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F AND 2.1. 90 °F FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM OUTLET TEMPERATURE OF 110°F.
- 2.2. WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING.
- 3. PIPE INSULATION: 3.1. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH. OR THE INSULATION REQUIREMENTS. WHICHEVER IS GREATER. THE FIRST 8 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH. OR THE INSULATION REQUIREMENTS, WHICHEVER IS GREATER.
- 3.2. ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY
- 3.3. COLD WATER PIPING - ALL SIZES - 1-INCH INSULATION, A.S. JACKET. STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY - MINIMUM 1-INCH INSULATION, A.S. JACKET. 3.4. HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F) 3.5.
- 3.5.1. PIPE SIZE: < 1" INSULATION: 1"
- 3.5.2. PIPE SIZE: 1" TO < 1-1/2" INSULATION: 1"
- 3.5.3. PIPE SIZE: 1-1/2 TO < 4" INSULATION: 1.5"
- 3.5.4. PIPE SIZE: 4" TO < 8" INSULATION: 1.5"

### 4. HOT WATER SYSTEM CONTROLS:

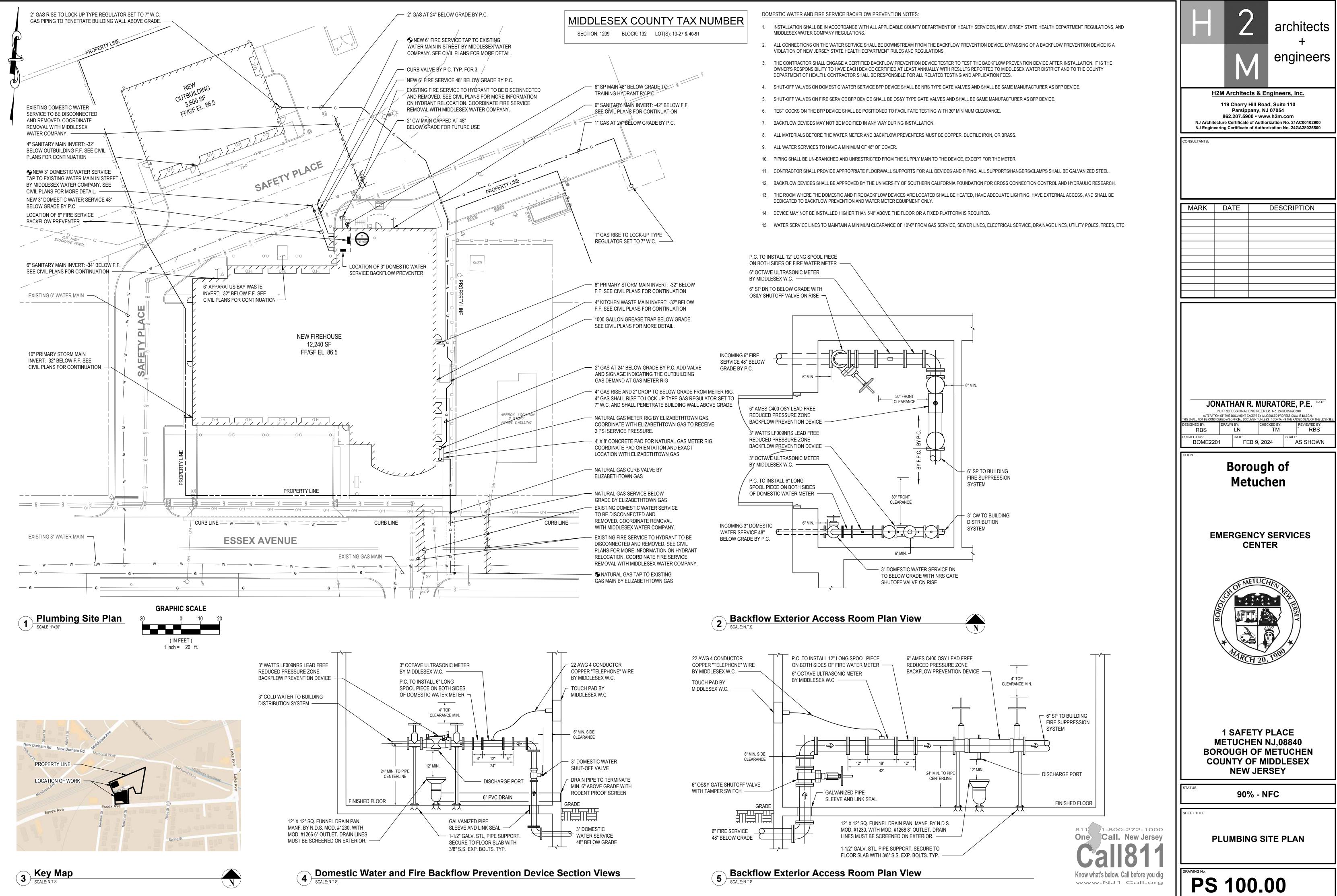
4.1. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS.

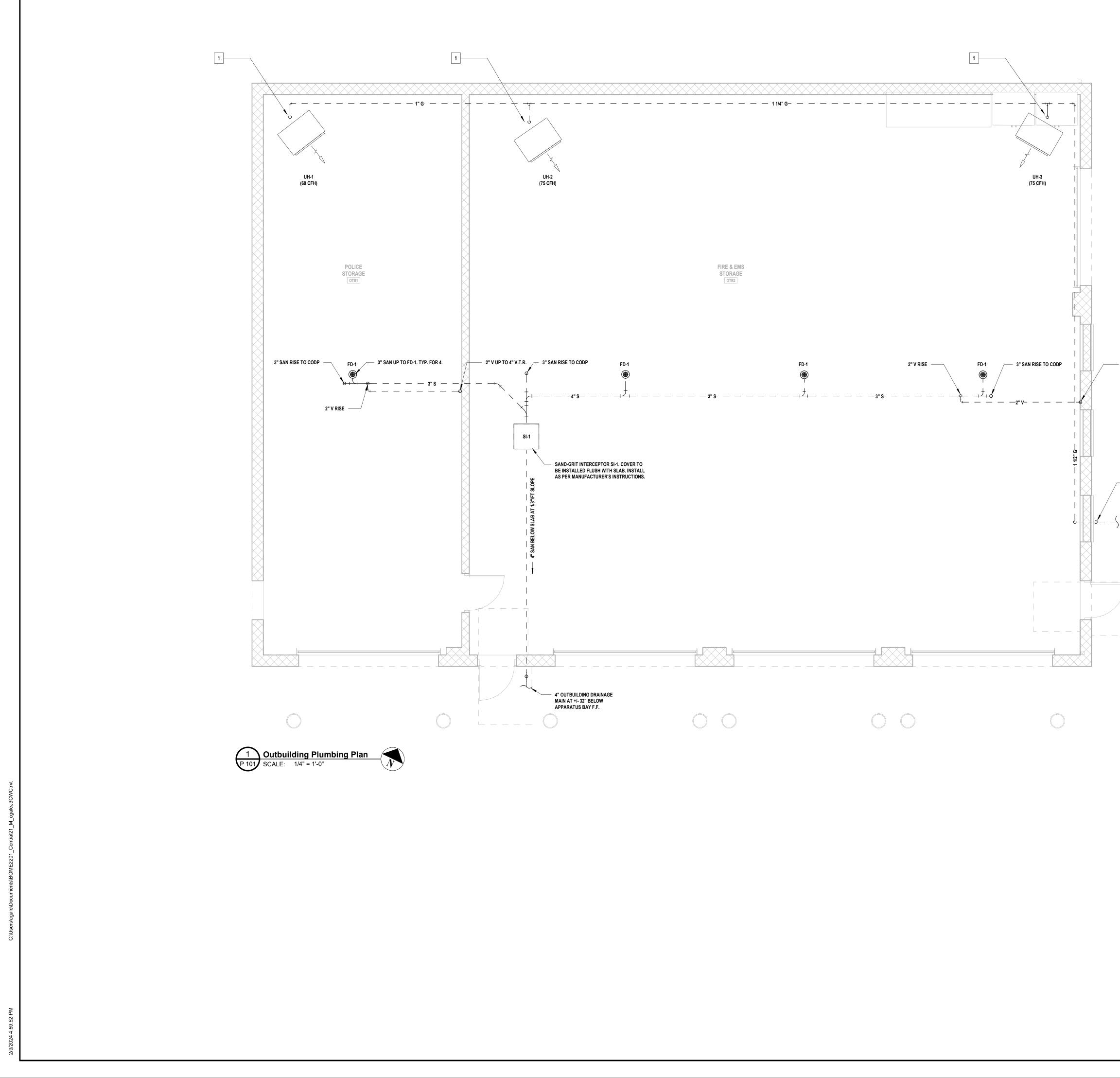
#### 5. PIPE VOLUME AND MAXIMUM LENGTHS

5.1. ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

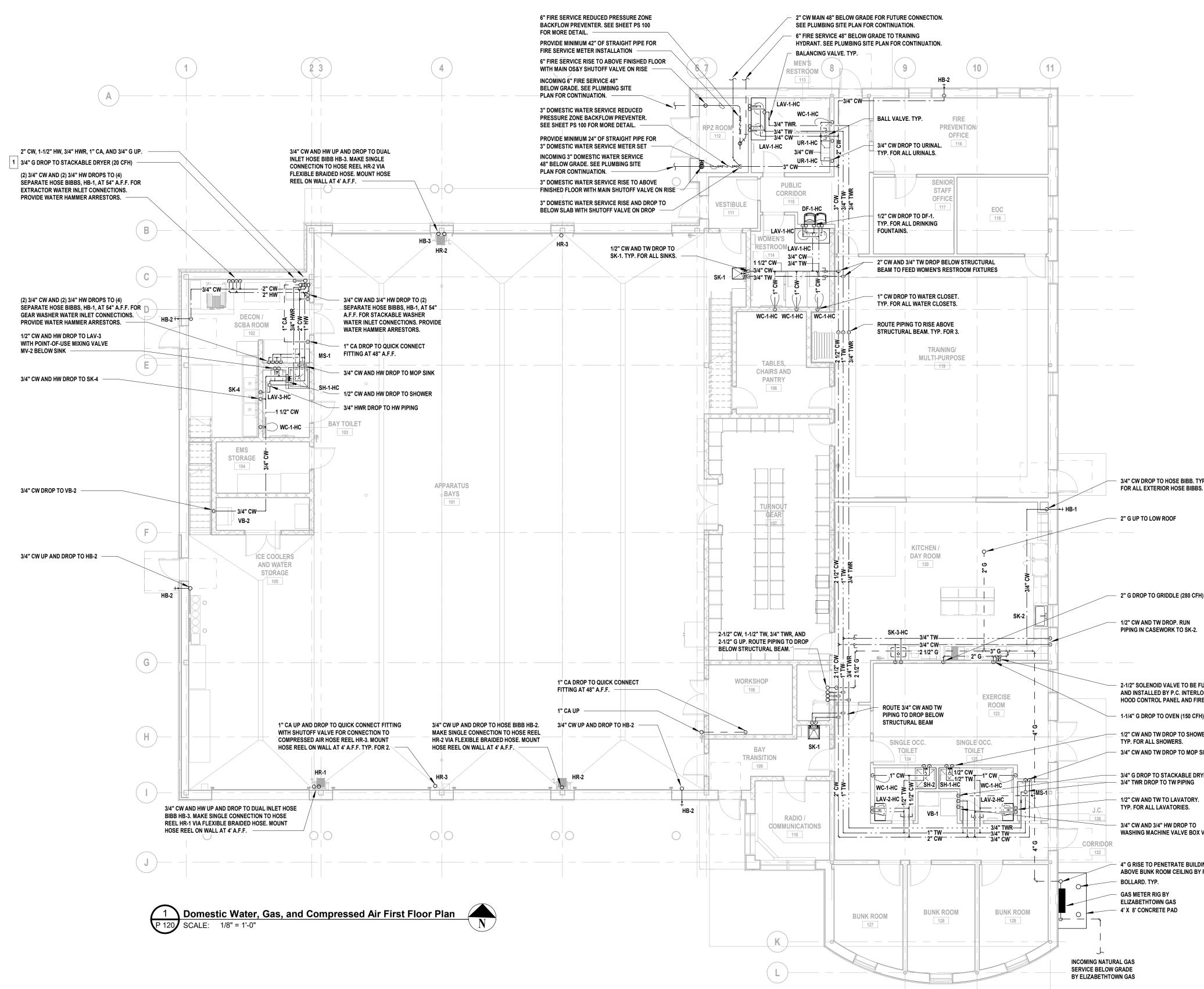
NOMINAL PIPE SIZE	VOLUME (LIQUID OUNCES PER	MAXIMUM PIPING	LENGTH (FEET)
(INCHES)	FOOT LENGTH)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4"	0.33	6	50
5/16"	0.5	4	50
3/8"	0.75	3	50
1/2"	1.5	2	43
5/8"	2	1	32
3/4"	3	0.5	21
7/8"	4	0.5	16
1"	5	0.5	13
1-1/4"	8	0.5	8
1-1/2"	11	0.5	6
2" OR LARGER	18	0.5	4

SEISMIC BRACING NOTES	H 2 architects
GENERAL	
<ol> <li>PIPES SHALL BE BRACED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 1613, THE LATEST EDITION OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR BUILDINGS WITH SEISMIC DESIGN CATEGORY C, D, AND E FOR FIRE SPRINKLER AND PLUMBING SYSTEMS WITH AN IMPORTANCE FACTOR GREATER THAN 1.0.</li> </ol>	M engineers
2. ALTERNATIVE DETAILS DIFFERING FROM THE LATEST EDITION OF THE SMACNA MANUAL MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER ON RECORD.	H2M Architecto & Engineero Inc.
3. IN-LINE EQUIPMENT SHALL BE BRACED INDEPENDENTLY OF THE PIPES. REFER TO THE SEISMIC DETAILS AND SCHEDULES ON THE CONTRACT DOCUMENTS.	H2M Architects & Engineers, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054
4. COLD-FORMED ANGLES SHALL CONFORM TO THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" WITH A MINIMUM FY OF 33 PSI.	862.207.5900 • www.h2m.com NJ Architecture Certificate of Authorization No.: 21AC00040200 NJ Engineering Certificate of Authorization No.: 24GA28025500
5. HOT-ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A36. PIPES USED AS BRACES SHALL BE STANDARD STEEL PIPES PER ASTM A500-A OR A-53.	CONSULTANTS:
6. PIPE HANGERS SHALL BE POSITIVELY ATTACHED TO THE SUPPORTING STRUCTURE ABOVE. THE USE OF C-CLAMPS OR OTHER FRICTION-TYPE ANCHORS TO HANG PIPE IS PROHIBITED IN SEISMIC REGIONS. FRICTION-TYPE ANCHORS SUCH AS C-CLAMPS WITH PROPERLY ATTACHED RETAINING STRAPS MAY BE USED IF APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.	
7. REFER TO THE STRUCTURAL DRAWINGS FOR ACCEPTABLE EXPANSION ANCHOR TYPES AND TEST LOADS AS REQUIRED.	
8. APPROPRIATE EXPANSION/CONTRACTION CAPABILITIES SHALL BE PROVIDED IN PIPES WHICH CROSS BUILDING EXPANSION JOINTS. THE TOTAL RELATIVE MOVEMENT IN ANY HORIZONTAL DIRECTION ON EACH SIDE OF THE JOINT SHALL BE EQUAL TO THE SIZE OF THE BUILDING JOINT.	MARK         DATE         DESCRIPTION           00         NOV 3, 2023         90% NFC
<ol> <li>REQUIREMENTS FOR BRACING OF PIPES</li> <li>9.1. BRACING, DETAILS, SCHEDULES AND NOTES APPLY TO ALL TYPES OF PIPES.</li> <li>9.2. BRACE PIPING AS DESCRIBED.</li> <li>9.2.1. FUEL-OIL, FUEL GAS, AND COMPRESSED AIR PIPING THAT IS NOMINAL 1-INCH OR LARGER.</li> <li>9.2.2. PIPING LOCATED IN BOILER ROOMS, MECHANICAL EQUIPMENT ROOMS THAT IS NOMINAL 2-INCH OR LARGER.</li> <li>9.2.3. ALL OTHER PLUMBING AND SPRINKLER PIPING LARGER THAN NOMINAL 2-INCH.</li> <li>9.2.4. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12-INCH OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE AND THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED. HOWEVER, HANGERS FOR PIPING, REGARDLESS OF SIZE, SHALL BE POSITIVELY ATTACHED TO THE SUPPORTING STRUCTURE ABOVE. FRICTION-TYPE ANCHORS SUCH AS C-CLAMPS SHALL NOT BE PERMITTED TO SUPPORT PIPE.</li> </ol>	
<ol> <li>TRANSVERSE BRACING SHALL BE AT 40-FEET MAXIMUM, EXCEPT WHERE A LESSER SPACING IS INDICATED IN THE TABLES FOR BRACING OF PIPES.</li> </ol>	
<ol> <li>LONGITUDINAL BRACING SHALL BE AT 80-FEET MAXIMUM EXCEPT WHERE THE LESSER SPACING IS INDICATED IN THE TABLES, IN PIPES WHERE THERMAL EXPANSION IS A CONSIDERATION, AN ANCHOR POINT MAY BE USED AS THE SPECIFIED LONGITUDINAL BRACE PROVIDED IT HAS A CAPACITY EQUAL TO OR GREATER THAN LONGITUDINAL BRACE. THE LONGITUDINAL BRACES AND CONNECTIONS MUST BE CAPABLE OF RESISTING THE ADDITIONAL FORCE INDUCED BY EXPANSION AND CONTRACTION.</li> </ol>	
12. FOR FUEL OIL AND GAS PIPING, THE BRACING DETAILS, SCHEDULES, AND NOTES MAY BE USED, EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20-FEET MAXIMUM AND LONGITUDINAL BRACING SHALL BE AT 40-FEET MAXIMUM.	Date JONATHAN R. MURATORE, P.E. NJ PROFESSIONAL ENGINEER LIC. NO. 24GE05698300 ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RAISED SEAL OF LICENSEE.
13. TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR A PIPE SECTION OF THE SAME SIZE AND CONNECTED PERPENDICULAR TO IT IF THE BRACING IS INSTALLED WITHIN 24-INCHES OF THE ELBOW OR THE TEE. SEE CHAPTER 4 OF THE SMACNA SEISMIC RESTRAINT MANUAL FOR TYPICAL LOCATIONS OF BRACING.	DESIGNED BY:     DRAWN BY:     CHECKED BY:     REVIEWED BY:       CRG     CRG     JRM     °       PROJECT No:     DATE:     SCALE:       BOME2201     NOV 3, 2023     AS SHOWN
14. SEISMIC BRACES FOR PIPES ON TRAPEZE HANGERS MAY BE USED.	CLIENT Developed
15. PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING EXPANSION JOINTS OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.	Borough of Metuchen
<ul><li>WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.</li><li>16. BRANCH LINES SHALL NOT BE USED TO BRACE MAIN LINES.</li></ul>	Metuchen
<ul> <li>WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.</li> <li>16. BRANCH LINES SHALL NOT BE USED TO BRACE MAIN LINES.</li> <li>17. A RIGID PIPING SYSTEM SHALL NOR BE BRACED TO DISSIMILAR PARTS OF THE BUILDING OR TO TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND DIFFERENTLY DURING AN EARTHQUAKE.</li> </ul>	
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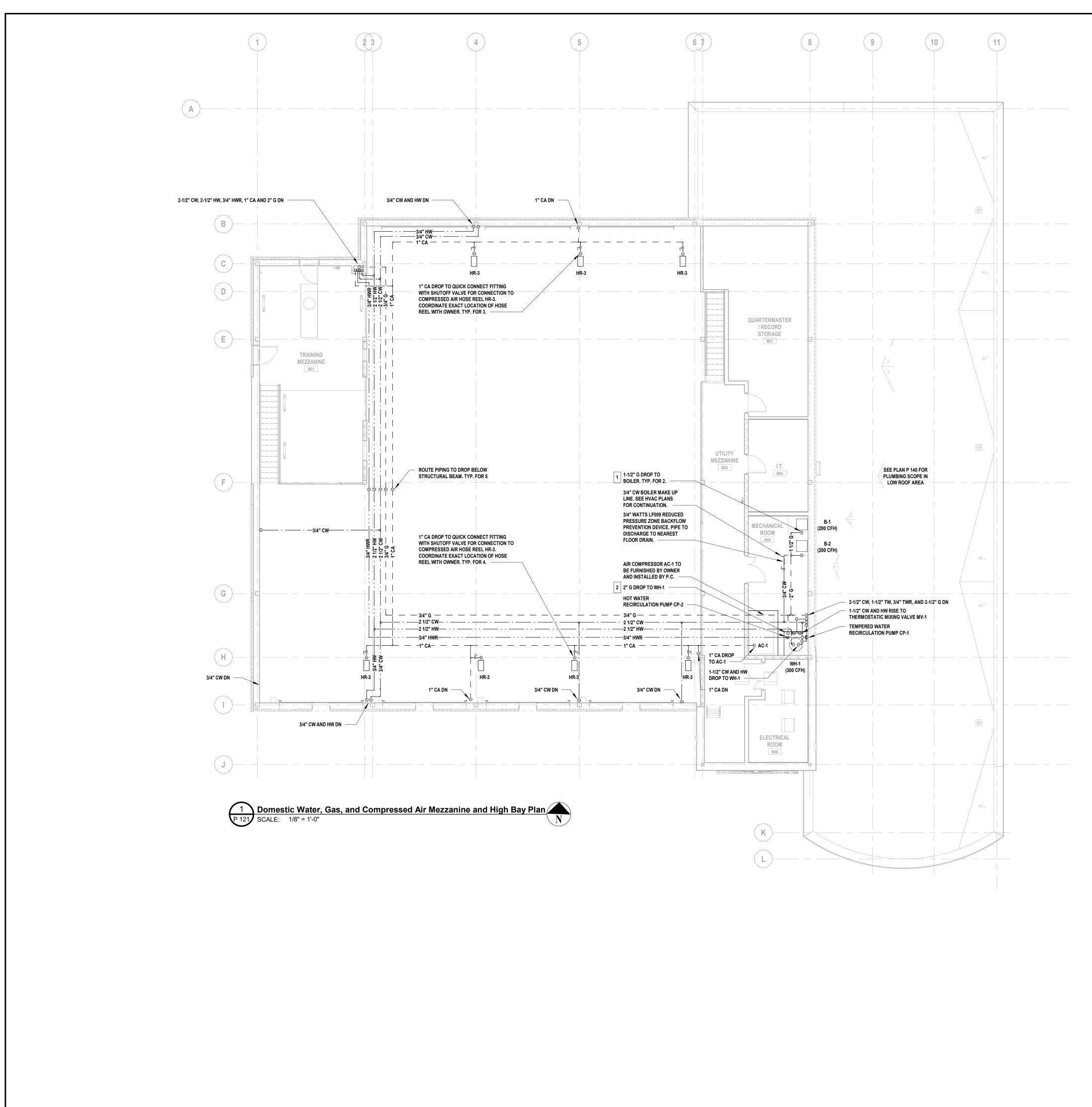


	H 2 architects
# KEYED PLUMBING NOTES	+ engineers
1.       1" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.	H2M Architects & Engineers, Inc.
	119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 - www.h2m.com NJ Architecture Certificate of Authorization No.: 21AC00040200 NJ Engineering Certificate of Authorization No.: 24GA28025500
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	JONATHAN R. MURATORE, P.E.
<ul> <li>1-1/2" G RISE TO PENETRATE BUILDING</li> <li>ABOVE GRADE WITH LOCK-UP TYPE</li> <li>NATURAL GAS REGULATOR SET TO 7"</li> <li>W.C. ON RISE.</li> </ul>	ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL THIS SHALL NOT BE CONSIDERED AN OFFICIAL DOCUMENT UNLESS IT CONTAINS THE RAISED SEAL OF LICENSEE.  DESIGNED BY: CRG CRG CRG JRM  REVIEWED BY: PROJECT NO: DATE: SCALE:
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DETAIL ON SHEET P 500. 2. 1-1/4" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. P.C. TO MAKE FINAL CONNECTION WITH FLEXIBLE GAS PIPE FOR KITCHEN EQUIPMENT. FOR	119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 - www.h2m.com
TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500. 3. 2" GAS PIPING TO GAS-FIRED EQUIPMENT. REDUCE PIPE SIZE AT CONNECTION POINT TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS. P.C. TO MAKE	NJ Architecture Certificate of Authorization No.: 21AC00040200 NJ Engineering Certificate of Authorization No.: 24GA28025500
FINAL CONNECTION WITH FLEXIBLE GAS PIPE FOR KITCHEN EQUIPMENT. FOR TYPICAL GAS CONNECTION, SEE DETAIL ON SHEET P 500.	MARK         DATE         DESCRIPTION           00         NOV 3, 2023         90% NFC           00         NOV 3, 2023         90% NFC
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	1 SAFETY PLACE METUCHEN, NJ 08840 BOROUGH OF METUCHEN COUNTY OF MIDDLESEX NEW JERSEY
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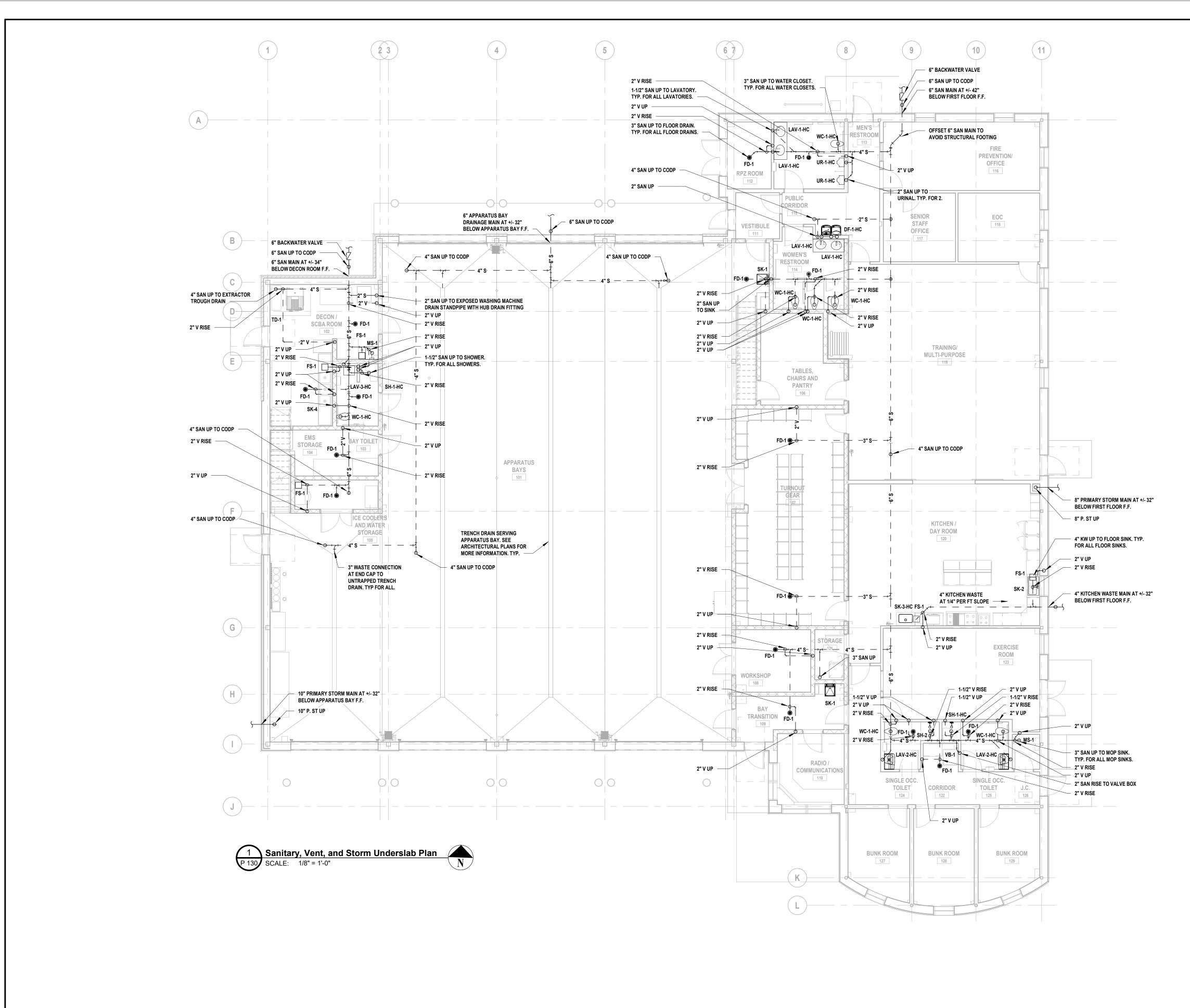


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#	<b>KEYED PLUMBING NOTES</b>
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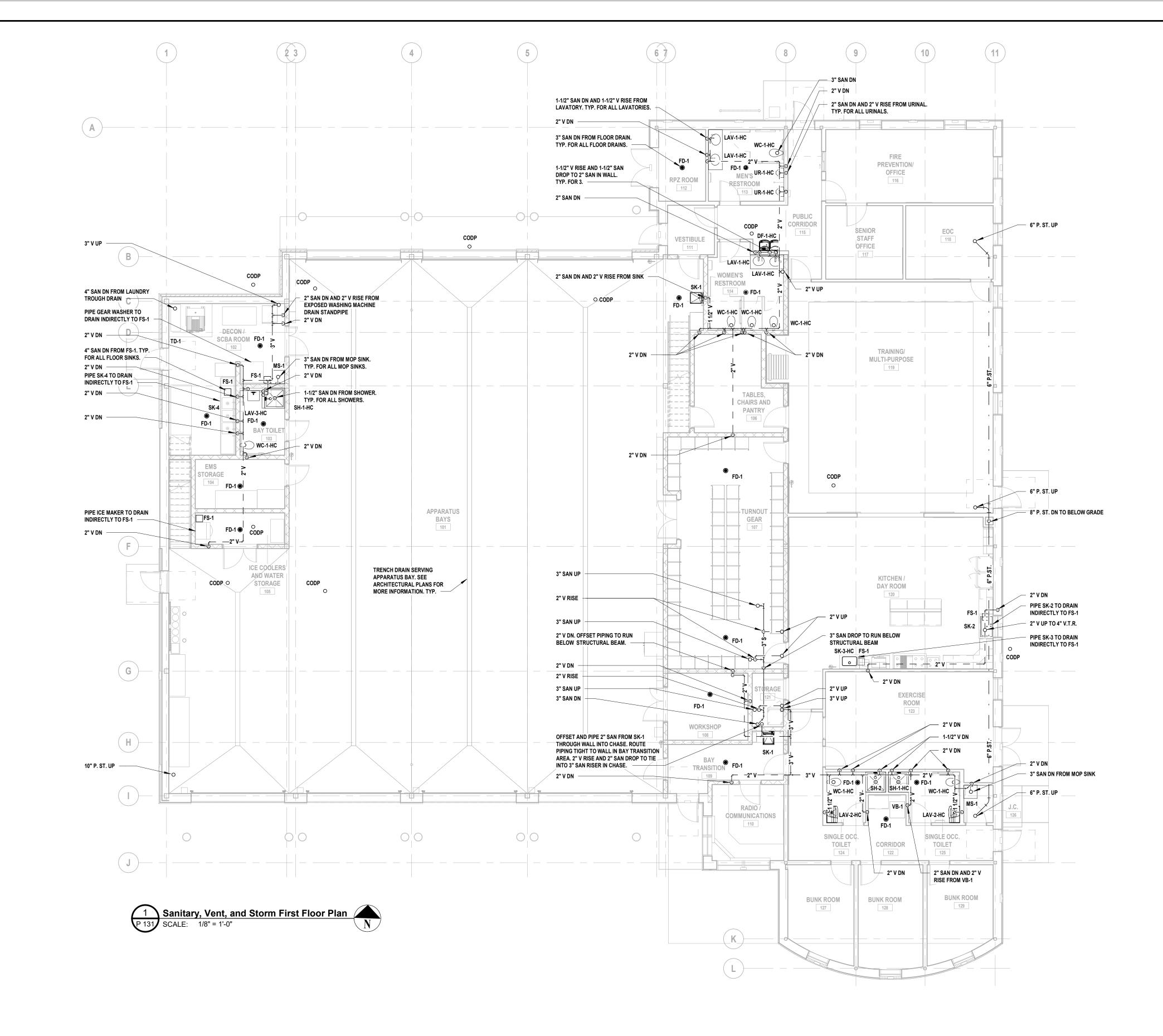
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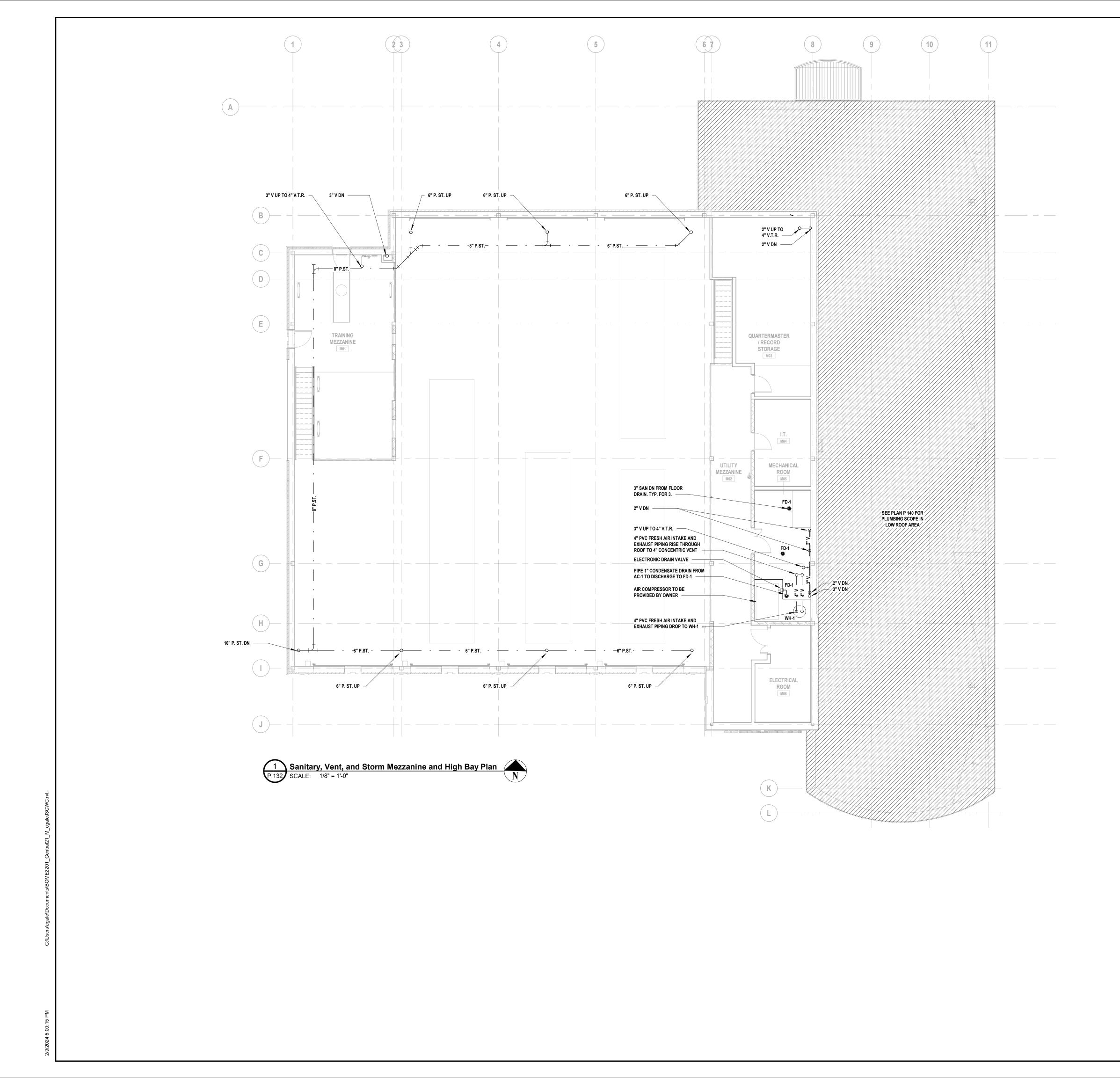
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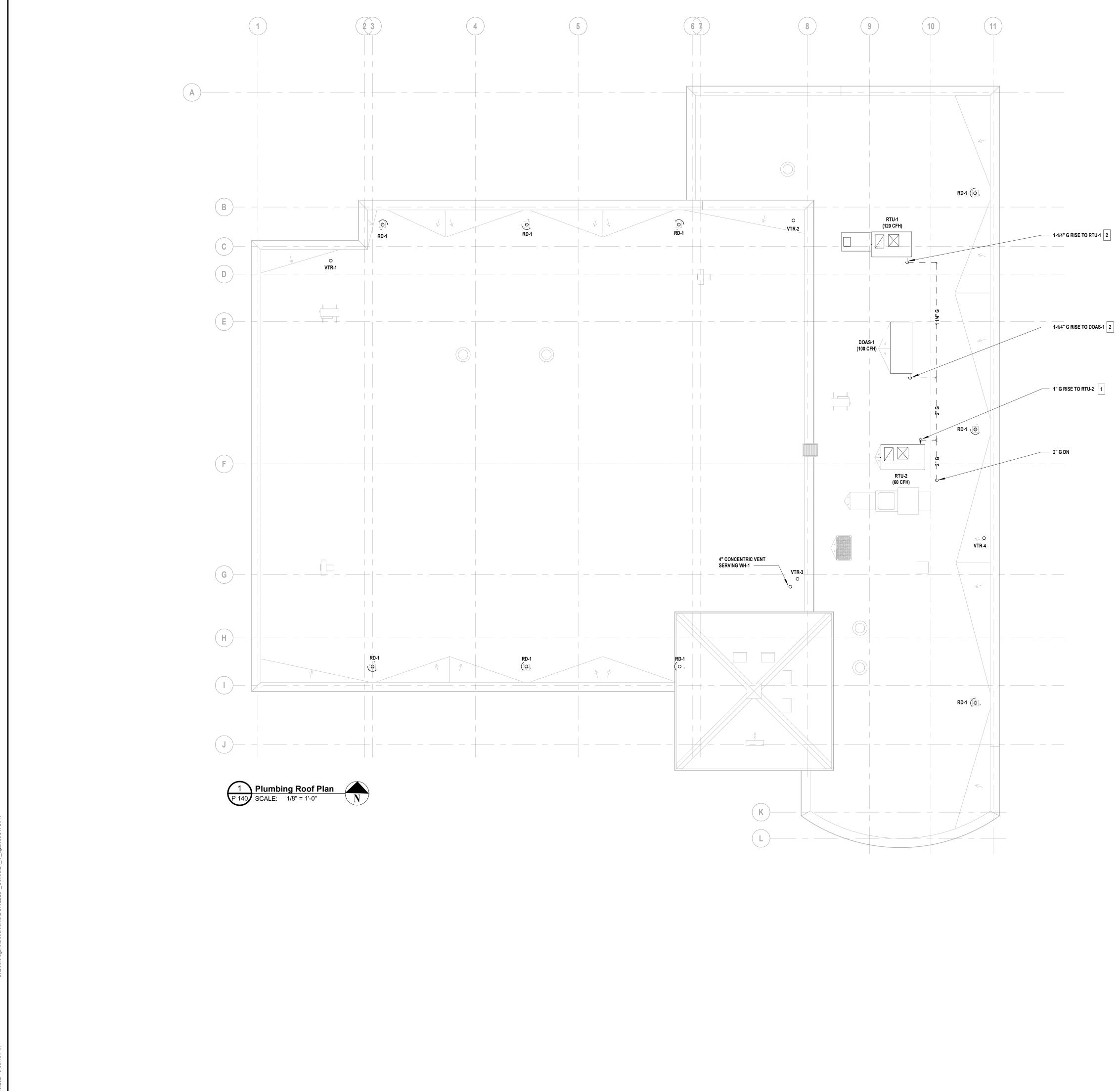


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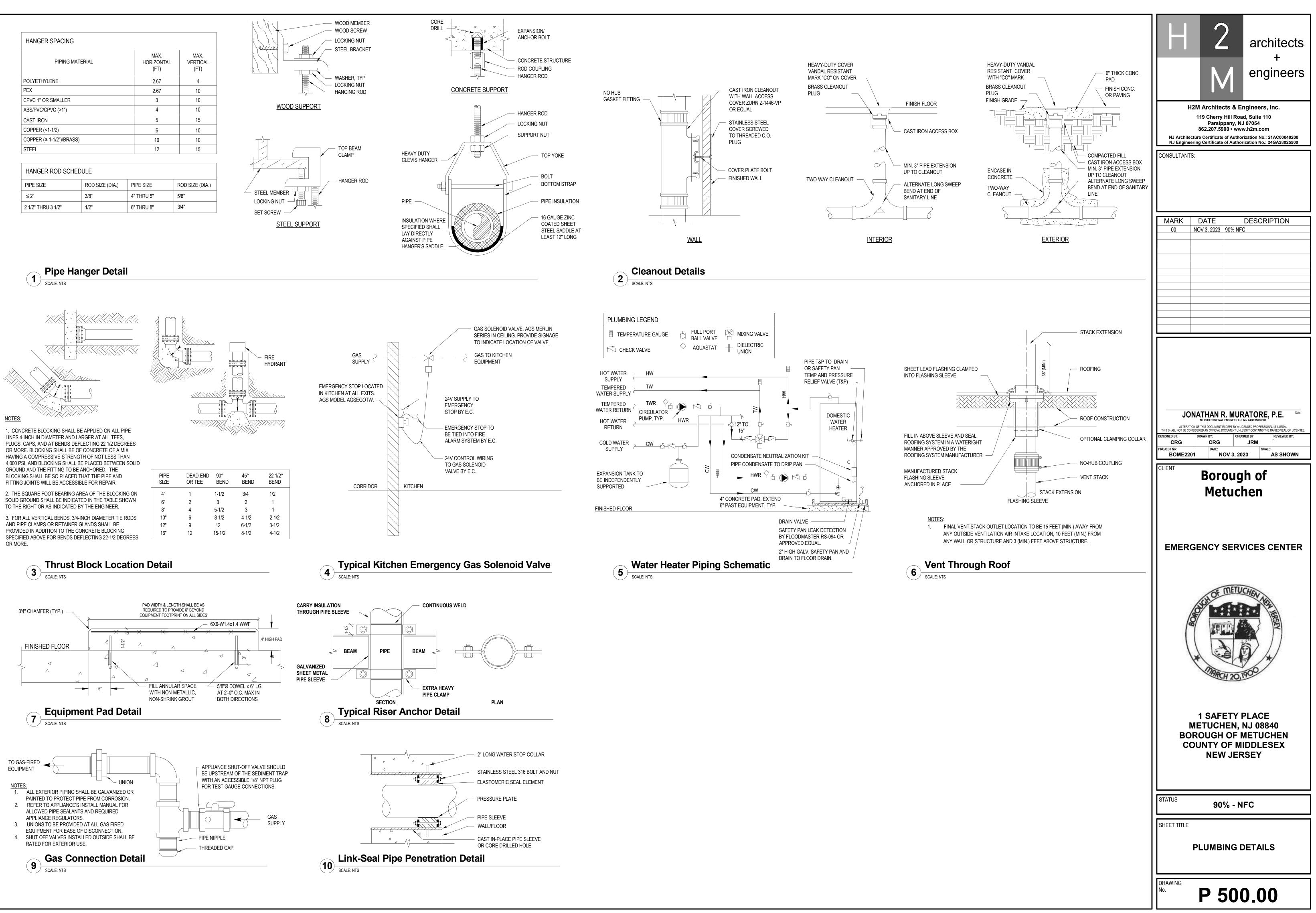
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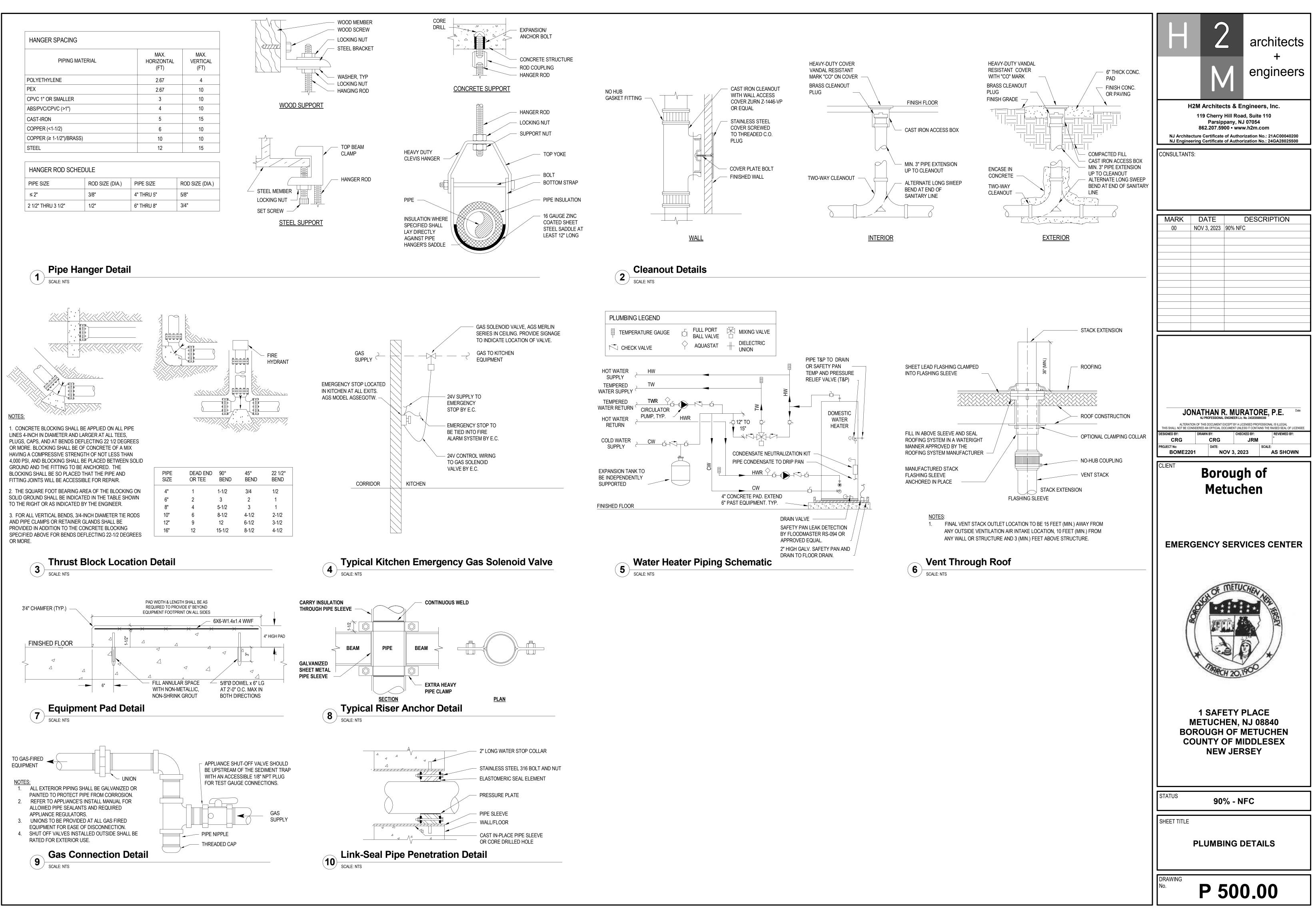
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FIXTURE	DESCRIPTION				TRIM / FA	UCET		COLD	WATER	HOT W	ATER	DR	AIN		SPECIFICATION	REMARKS
TAG		MAKE	MODEL	MAKE	MODEL	OPERATION	MAX FLOW	SIZE	WFU	SIZE	WFU	SIZE	DFU	VENT		
								_		-					SINK: VITREOUS CHINA DROP-IN, SELF-RIMMING, SINGLE HOLE, ASME A112.19.2, FRONT OVERFLOW.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE
LAV-1-HC	LAVATORY - DROP IN - ADA COMPLIANT - CENTER HOLE - SENSOR FAUCET	SLOAN	SS-3102	SLOAN	EAF-150	SENSOR BATTERY	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	FAUCET: DECK MOUNTED, ADA COMPLIANT, INTEGRATED SIDE MIXER, VANDAL RESISTANT, CHROME, GRID STRAINER, WITH 0.5 GPM AERATOR. COMPLIES WITH ASME A112.18.1 AND NSF 372.	STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. H WATER SHALL NOT EXCEED 105°F. INSULATE ALL EXPOSE DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD.
LAV-2-HC	LAVATORY - CORNER WALL MOUNT - ADA COMPLIANT - MANUAL FAUCET - 4-INCH O.C.	WILLOUGHBY	LRBCL-2030	AMERICAN STANDARD	MONTERREY 5500.170	MANUAL	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	FAUCET: DECK MOUNTED CENTERSET, 4-INCH LEVER HANDLE, VANDAL RESISTANT, CHROME, GRID STRAINER, WITH 0.5 GPM	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. PROVIDE CARRIER SUPPORT WATTS WCA-411 OR APPROV EQUAL. HOT WATER SHALL NOT EXCEED 105°F. INSULATE
															AERATOR. COMPLIES WITH ASME A112.18.1 AND NSF 372. SINK: VITREOUS CHINA WALL-HUNG, SELF-RIMMING, 4" CENTERSET FAUCET HOLES, ASME A112.19.2, FRONT OVERFLOW.	EXPOSED DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD. PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE
LAV-3-HC	LAVATORY - WALL MOUNT - ADA COMPLIANT - MANUAL FAUCET - 4-INCH O.C.	SLOAN	SS-3003	AMERICAN STANDARD	MONTERREY 5500.170	MANUAL	0.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	1	1-1/2"	FAUCET: DECK MOUNTED CENTERSET, 4-INCH LEVER HANDLE, VANDAL RESISTANT, CHROME, GRID STRAINER, WITH 0.5 GPM AERATOR. COMPLIES WITH ASME A112.18.1 AND NSF 372.	STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. PROVIDE CARRIER SUPPORT WATTS WCA-411 OR APPROV EQUAL. HOT WATER SHALL NOT EXCEED 105°F. INSULATE EXPOSED DRAIN AND SUPPLY PIPING WITH TRUBRO LAVGUARD.
WC-1-HC	WATER CLOSET - FLOOR MOUNTED - FLOOR OUTLET - ADA COMPLIANT - TOP SPUD	SLOAN	ST-2029	SLOAN	G2 8111	SENSOR BATTERY	1.28 GPF	1"	10	-	-	3"	4	1-1/2"	TOILET: VITREOUS CHINA, ELONGATED, ADA HEIGHT, FLOOR MOUNTED, ASME A112.19.2. PROVIDE TOILET SEAT CHURCH 295CT OR APPROVED EQUAL. MINIMUM OF 25 PSI.FLUSH VALVE: EXPOSED SENSOR FLUSHOMETER, POLISHED CHROME, ADA COMPLIANT, VANDAL RESISTANT. COMPLIES WITH ASSE 1037. PROVIDE REQUIRED BATTERIES AND NO PIPE SEALANT ALLOWED.	COORDINATE GRAB BAR HEIGHT WITH FLUSH VALVE.
UR-1-HC	URINAL - ADA COMPLIANT - TOP SPUD	SLOAN	SU-1009	SLOAN	ECOS 8186	SENSOR BATTERY	0.125 GPF	3/4"	5	-	-	3"	4	2"		PROVIDE CARRIER SUPPORT WATTS CA-311 OR APPROVE EQUAL.
															ASSE 1037. PROVIDE REQUIRED BATTERIES AND NO PIPE SEALANT ALLOWED.	PROVIDE SERVICE STOP WITH ACCESS, VANDAL RESISTA
DF-1-HC	DRINKING FOUNTAIN - SURFACED MOUNTED - BILEVEL - ADA COMPLIANT - REFRIGERATED	ELKAY	LZSTL8WSLP	-	-	MANUAL / SENSOR	8 GPH	1/2"	0.25	-	-	1-1/4"	0.5	1-1/2"	BI-LEVEL LIGHT GREY WATER COOLER. REQUIRES (2) ELECTRICAL RECEPTACLES. COMPLIES WITH ASME A112.19.3 AND NSF 61.	BUBBLER (ELKAY 97446C), INWALL CARRIER (ELKAY MLP20 AND ADDITIONAL FILTER (ELKAY 51300C)
MS-1	MOP SINK - FLOOR MOUNTED	FIAT	MSB 2424	FIAT	830-AA	MANUAL	-	3/4"	2.25	3/4"	2.25	3"	2	1-1/2"	MOLDED-STONE ONE-PIECE MOP SINK, STAINLESS STEEL 3" DRAIN BODY WITH STRAINER. BRASS CHROME PLATED SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. COMPLIES WITH ASME A112.18.2.	PROVIDE STAINLESS STEEL WALL GUARDS (FIAT MSG2424 HOSE AND HOSE BRACKET (FIAT 832AA), MOP HANGER (FI 889CC), BUMPER GUARD (FIAT E88-AA), AND 3" P-TRAP.
		ADVANCE	FC-WM-2219-F	ADVANCE	K 450		2.2 GPM	1/2"	4	4./01	4	4.4/01	0	4.4/01	SINK: WALL MOUNT, 16-GAUGE STAINLESS STEEL SINK WITH SATIN FINISH, AND GRID STRAINER. COMPLIES WITH ASME A112.19.3.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
SK-1	SINK - STAINLESS - WALL MOUNT - 23" x 23"	TABCO	FC-WM-2219-F	TABCO	K-159	MANUAL	Z.Z GPM	1/2"	1	1/2"		1-1/2"	2	1-1/2"	FAUCET: POLISHED CHROME WITH QUARTER-TURN WEDGE STYLE HANDLES, 3-1/2" SWIVEL GOOSENECK SPOUT. COMPLIES WITH NSF 61 & 372, AND ASME A112.18.1.	
SK-2	SINK - STAINLESS - UNDERMOUNT - 36" x	ELKAY	ECTRU35179TC	KOHLER	K-22973	MANUAL	1.5 GPM	1/2"	1	1/2"	1	1_1/2"	2	1-1/2"	SINK: UNDERMOUNT, 18-GAUGE STAINLESS STEEL SINK WITH SATIN FINISH, AND GRID STRAINER. COMPLIES WITH ASME A112.19.3.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
517-2	18.5"	LENAT	LETROSSITISTE	RUHLER	N-22373	MANUAL	1.5 GFM	1/2		1/2		1-1/2	2	1-1/2	FAUCET: POLISHED CHROME WITH SINGLE LEVER HANDLE AND SEMI-PROFESSIONAL SPOUT. COMPLIES WITH ADA, NSF 61 & 372, AND ASME A112.18.1.	
SK-3-HC	SINK - STAINLESS - UNDERMOUNT - ADA COMPLIANT - 23.5" x 18.25"	ELKAY	ELUHAD211555	KOHLER	K-22972	MANUAL	1.5 GPM	1/2"	1	1/2"	1	1-1/2"	2	1-1/2"	SINK: UNDERMOUNT, 18-GAUGE STAINLESS STEEL SINK WITH SATIN FINISH, AND GRID STRAINER. COMPLIES WITH ASME A112.19.3. FAUCET: POLISHED CHROME WITH SINGLE LEVER HANDLE, HIGH ARCH SPOUT. COMPLIES WITH ADA, NSF 61 & 372, AND ASME A112.18.1.	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP.
SK-4	SINK - STAINLESS - FLOOR MOUNT - 3 COMPARTMENT - 20" x 20"	ADVANCE TABCO	94-23-60-36RL	CHICAGO FAUCETS	510-G613L15XKC AB + 686-124KJKABCP	MANUAL	1 GPM	1/2"	1	1/2"	1	1-1/2"	2	1-1/2"	SINK: FLOORMOUNT, 14-GAUGE STAINLESS STEEL 3 COMPARTMENT SINK WITH SATIN FINISH, AND GRID STRAINER. COMPLIES	PROVIDE BRASS ANGLE STOP VALVES WITH FLEXIBLE STAINLESS STEEL SUPPLIES, AND 1-1/2" BRASS P-TRAP. PROVIDE SHUTOFF VALVES ON ALL BASIN DRAIN PIPES AI CLAMPS TO MOUNT REAR LEGS TO WALL.
															DRAIN: DURA-COATED CAST IRON BODY WITH SECURED STAINLESS STEEL STRAINER	FAUCET CONTROLS SHALL BE MOUNTED ON THE SHOWE WALL ADJACENT TO THE FOLD UP SEAT. PIPING FROM TH
SH-1-HC	SHOWER - ADA COMPLIANT - CENTER DRAIN - SHOWER FAUCET	ZURN	FD2250	DELTA	SEE SPECIFICATION	MANUAL	1.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	2	1-1/2"	SHOWER: TRIM PACKAGE: DELTA T13H332, 1.5 GPM, WATERSENSE SHOWER HEAD & HAND SHOWER, 24-INCH WALL BAR, METAL HOSE, FAUCET TRIM WITH LEVER HANDLE - ROUGH VALVE BODY: DELTA MULTICHOICE R10700-UNWS, UNIVERSAL ROUGH VALVE BODY WITH DIVERTER VALVE ROUGH IN. ALL FAUCET PARTS TO COMPLY WITH ADA REGULATIONS, ASME A112.18.1, AND APPROVED EQUAL.	MIXING VALVE TO THE DIVERT VALVE AND THE SHOWER HEADS SHALL BE COPPER.
																PIPING FROM THE MIXING VALVE TO THE SHOWER HEAD SHALL BE COPPER.
SH-2	SHOWER - CENTER DRAIN - SHOWER FAUCET	ZURN	FD2250	DELTA	SEE SPECIFICATION	MANUAL	1.5 GPM	1/2"	0.5	1/2"	0.5	1-1/2"	2	1-1/2"	SHOWER: TRIM PACKAGE: DELTA T13H132, 1.5 GPM, WATERSENSE SHOWER HEAD, FAUCET TRIM WITH LEVER HANDLE - ROUGH VALVE BODY: DELTA MULTICHOICE R10000-UNWS, UNIVERSAL ROUGH VALVE BODY. ALL FAUCET PARTS TO COMPLY WITH ADA REGULATIONS, ASME A112.18.1, AND APPROVED EQUAL.	
VB-1	WATER SUPPLY VALVE BOX - WASHING MACHINE	SIOUX CHIEF	696-G2(R) SERIES (R) DENOTES FIRE RATING	-	-	MANUAL	-	1/2"	1	1/2"	1	2"	2	2"	LAUNDRY SUPPLY BOX WITH WATER HAMMER ARRESTOR. 1/2" CW AND HW SUPPLY CONNECTIONS WITH 1/4 TURN BALL VALVE. PROVIDE FIRE RATED ENCLOSURE WHEN INSTALLED IN FIRE RATED WALLS. 2" DRAIN OUTLET CONNECTION. DRAIN SHALL BE SECURED TO BOX.	PROVIDE 2" DEEP SEAL TRAP FOR SUDS ZONE
VB-2	WATER SUPPLY VALVE BOX - SINGLE	SIOUX CHIEF	696-G1(R) SERIES (R) DENOTES FIRE RATING	-	-	MANUAL	-	1/2"	0.25	-	-	-	-	-	ICE MAKER SUPPLY BOX WITH WATER HAMMER ARRESTOR. 1/2" CW SUPPLY CONNECTION WITH 1/4 TURN BALL VALVE. PROVIDE FIRE RATED ENCLOSURE WHEN INSTALLED IN FIRE RATED WALLS.	
HB-1	HOSE BIBB - INTERIOR	WOODFORD	24P-3/4	-	-	MANUAL	-	3/4"	-	-	-	-	-	-	WALL FAUCET WITH ASSE STANDARD 1011 APPROVED ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD OUTLET SPOUT, LOOSE TEE KEY HANDLE.	
HB-2	HOSE BIBB - FROST FREE	WOODFORD	MODEL 17	-	-	MANUAL	-	3/4"	-	-	-	-	-	-	WALL FAUCET WITH ASSE STANDARD 1019 APPROVED ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD OUTLET SPOUT, LOOSE TEE KEY HANDLE.	
HB-3	HOSE BIBB - INTERIOR - DUAL INLET	WOODFORD	MODEL 22	-	-	MANUAL	-	3/4"	-	3/4"	-	-	-	-	WALL FAUCET WITH ASSE STANDARD 1019 APPROVED ANTI-SIPHON VACUUM BREAKER, SEPARATE HOT AND COLD WATER INLET TUBES, 3/4" MALE HOSE THREAD OUTLET SPOUT, OVAL, POWDER-COATED, DIE CAST ALUMINUM HANDLE.	
HR-1	WATER HOSE REEL - 50 FT	HANNAY	1816-17-18	-	-	MANUAL	-	1"	-	-	-	-	-	-	FEMALE NPT OUTLET, CAM-LOCK DRAG BRAKE, SPRING ACTUATED PIN LOCK. REEL TO HAVE CAPACITY TO STORE 50 FEET OF 3/4" I.D. HOSE. HOSE TO BE RMA CLASS A BLACK NITRILE WITH SYNTHETIC YARN REINFORCEMENT AND RMA CLASS B RED NBR BLEND COVER. HOSE SHALL HAVE AN I.D. OF 3/4", A MAXIMUM O.D. OF 1-9/32", AND BE RATED TO 300 PSI.	
HR-2	WATER HOSE REEL - 100 FT	HANNAY	1822-17-18	-	-	MANUAL	-	1"	-	-	-	-	_	-	FEMALE NPT OUTLET, CAM-LOCK DRAG BRAKE, SPRING ACTUATED PIN LOCK. REEL TO HAVE CAPACITY TO STORE 100 FEET OF	FOR EACH REEL, PROVIDE 100' OF HOSE LENGTH WITH 3/4 MALE NPT FITTING AT EACH END. MAKE FINAL WATER CONNECTION TO REEL INLET WITH FLEXIBLE CONNECTOF PROVIDE ASSE 1011 COMPLIANT VACUUM BREAKER AT FI CONNECTION TO REEL INLET.
HR-3	AIR HOSE REEL - 35 FT	REEL CRAFT	A5835 OLP	-	-	MANUAL	-	-	-	-	-	-	-	-	SPRING RETRACTABLE HOSE REEL. UNIT TO HAVE 3/8" FEMALE NPT INLET, 1/2" FEMALE NPT OUTLET. REEL TO HAVE CAPACITY TO STORE 35 FEET OF 1/2" I.D. HOSE. HOSE TO BE PVC NYLON BRAID, RATED TO 300 PSI FOR AIR APPLICATIONS.	FOR EACH REEL, PROVIDE 35' OF HOSE LENGTH WITH 1/2' MALE NPT FITTING AT EACH END. MAKE FINAL AIR CONNECTION TO REEL INLET WITH FLEXIBLE CONNECTOF
TD-1	DRAIN TROUGH WITH LINT FILTER	H-M COMPANY	CUSTOM	-	-	-	-	-	-	-	-	4	4	2"	DRAIN TROUGH WITH INSIDE DIMENSIONS 48"L X 18"W X 12"D. 1/4" POLYPROPYLENE CHEMICAL RESISTANT BODY WITH 3/8" POLYPROPYLENE LID. INCLUDES 1/4" PVC LINT FILTER AND 4" SIDE OUTLET.	PROVIDE 4" PVC P-TRAP AND ADDITIONAL WIRE STRAINEF BASKET, REMOVABLE FOR CLEANING, THAT PREVENTS PASSAGE OF SOLIDS 1/2" OR LARGER IN SIZE.
FD-1	FLOOR DRAIN (CONCRETE FLOORS)	ZURN	ZB415-BZ1-VP	-	-	-	-	-	-	-	-	-	2	2"	FLOOR DRAIN: DURA-COATED CAST IRON BODY. POLISHED BRONZE TOP AND VANDAL PROOF SECURED TOP.	PROVIDE TRAP SEALS: ZURN Z1072. SEE PLANS FOR SIZE
FS-1 RD-1	FLOOR SINK ROOF DRAIN	ZURN	Z1900 Z121	-	-	-	-	-	-	-	-	-	2	2"	FLOOR SINK: WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST 3/4 IRON GRATE, POLYPROPYLENE DOME BOTTOM STRAINER, NO HUB OUTLET. 12" DIAMETER ROOF DRAIN DURA-COATED CAST IRON BODY AND DOME.	PROVIDE TRAP SEALS: ZURN Z1072. SEE PLANS FOR SIZE

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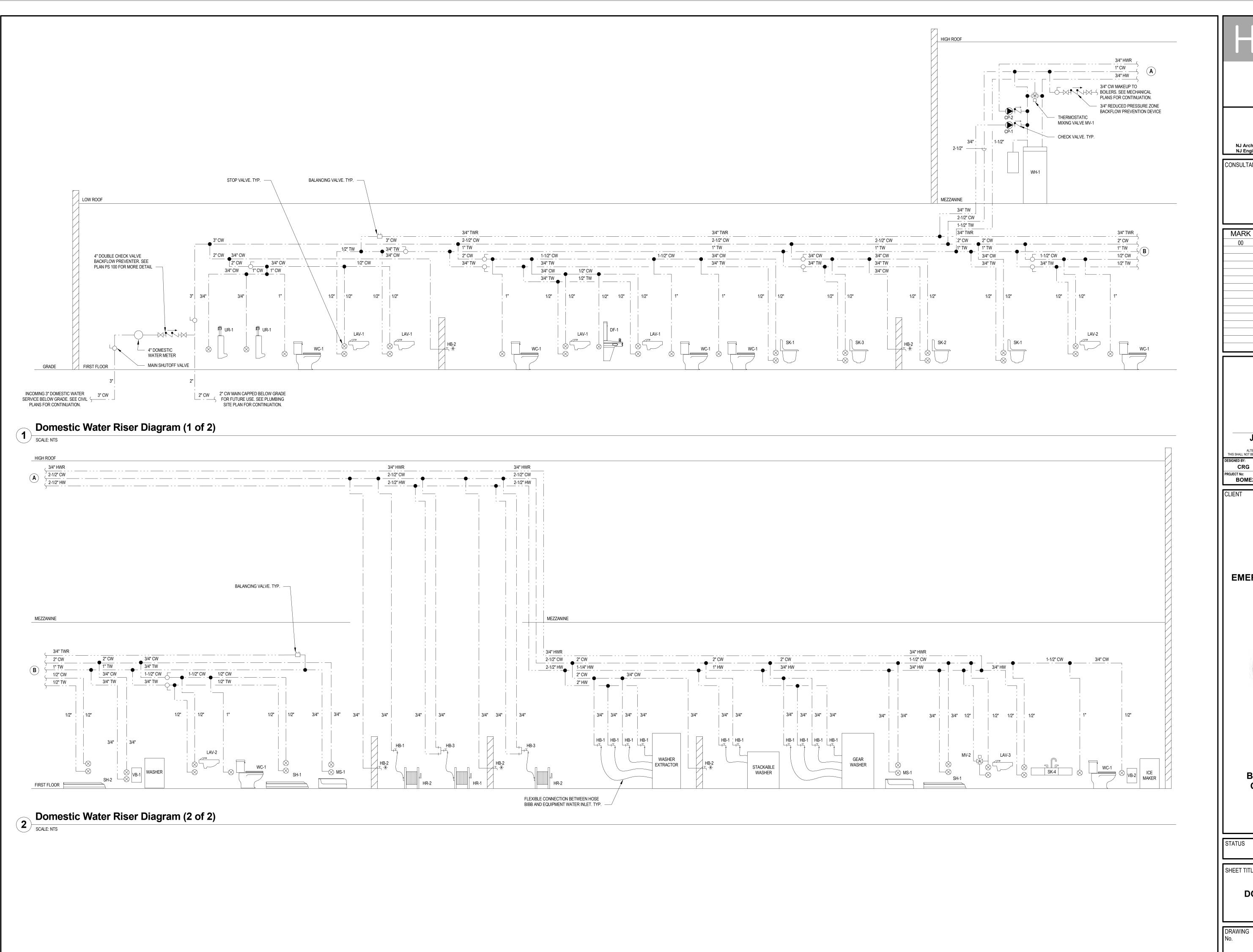
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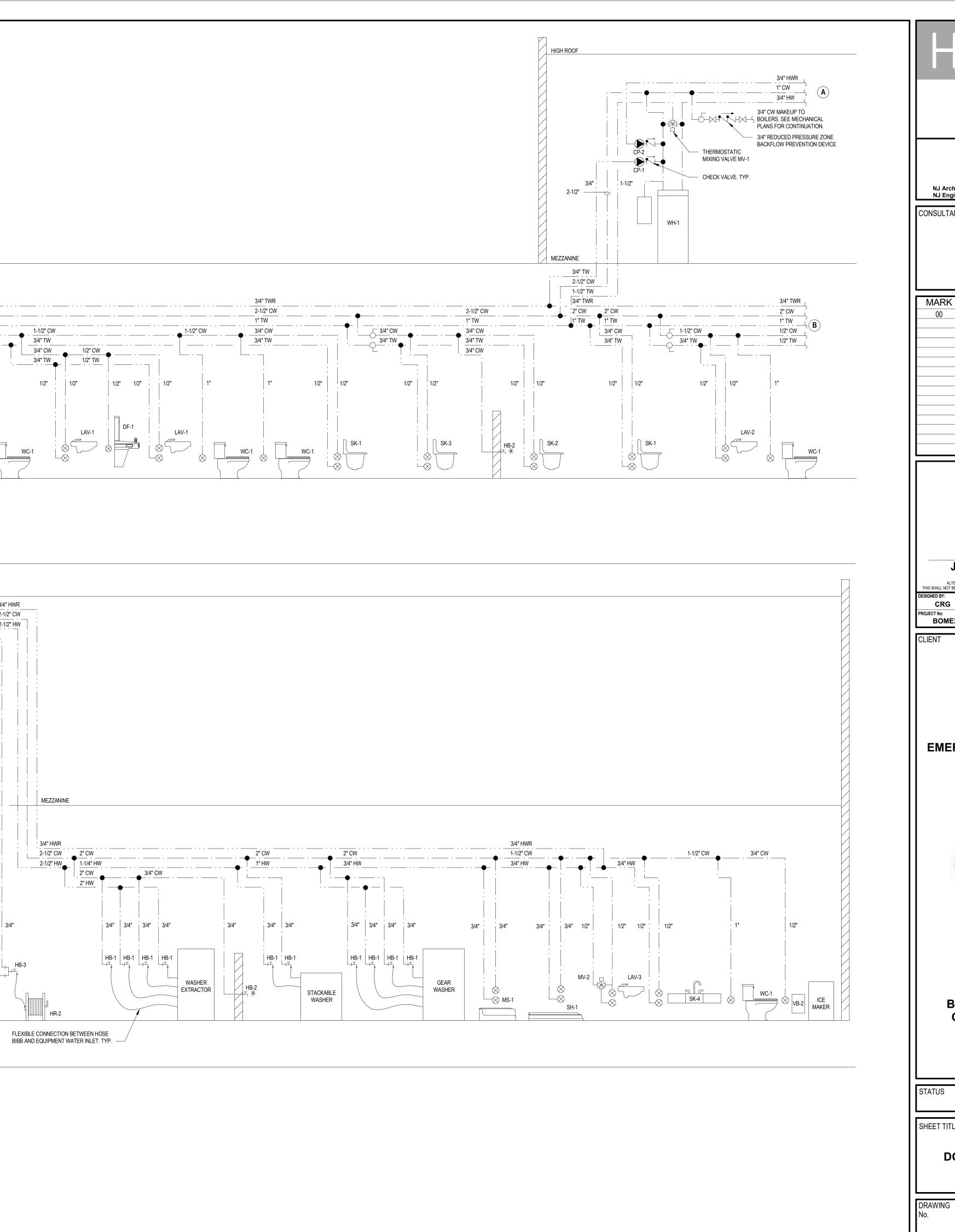
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EQUIPMENT NO	0. LOCATIO	ON	TYPE	STORAGE		MAKE MODEL		DIMENSIONS		GAS FIRED WA	TER HEATER		RECOVERY	WATER	FFICIENCY	EXPANSIO	N TANK					SPECIFICATIO	N
				STURAGE			MODEL	(Ø"xH)	GAS INPUT (BTU)	GAS PRESSURE	GAS CONNECTION	FLUE SIZE	AT 100°F RISE	RISE CONNECTION		MAKE	MODEL						
WH-1	MECH ROO	MOO	GAS-FIRED	119 GAL	AO	SMITH	BTH-300(A)	34" DIA X 64" H	300,000	4.8-14" W.C.	1-1/2"	4"	349 GPH	1-1/2"	95%	AMTROL	ST-12	NATER HEATER	SHALL COM	PLY WITH ANSI Z2 CURRENT EDITION	1.10.3 - CSA 4.3, S ASHRAE/IES 90.1	HALL MEET THE U.S , AND SHALL COMPL	DEPARTMENT OF ENER Y WITH SCAQMD RULE ?
1. FLOOR MOUNTE	ED WATER HEATER	RS SHALL HA	AVE A 2-INCH HIGH	GALVANIZED SAF	ETY PAN WITH	A 3/4" DRAIN LINE	FROM THE SAI	FETY PAN TO THE NEARE	ST FLOOR DRAIN O	R SERVICE SINK. PIPE	E THE T&P VALVE TO T	THE SAFETY PAN	N.	-	·								
								D AND PAD SHALL EXTEN															
					STEM, AND SI	HALL BE PRESSUR	ZED TO MEET	THE INCOMING PRESSUR	E OF THE WATER S	SYSTEM. REFER TO M	ANUFACTURER INSTRI	RUCTIONS FOR P	ROPER ORIENTAT	ΓΙΟΝ.									
	KS SHALL BE SET A																						
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MIXING V EQUIPMI NO.	1ENT			Maximum PF Rang		MINIMUM FLOV	/	INLET SIZE	BASIS OF DES OUTLET SIZ		DN ANUFACTUER	МС	DDEL	NOMINAL DIMENS	IONS (W X H)					SPECIFICA	ΓΙΟΝ		
EQUIPM	1ENT	LOC		-	E	MINIMUM FLOV 0.5 GPM	/	INLET SIZE					DDEL SH1434	NOMINAL DIMENS 15-1/4" X 9		LEAD FREI	TURE RANG	E FROM 90 DEG.	F TO 160 DE	SHALL HAVE AN AF EG. F, A LOCKABLE	PROACH TEMPE	RATURE OF 5 DEG. I SETTING FEATURE, J PM AND SHALL BE L	
EQUIPMI NO. MV-1	1ENT	LOC	CATION	RANG	E				OUTLET SIZ		ANUFACTUER					LEAD FREI TEMPERA STANDARI	TURE RANG	E FROM 90 DEG.	F TO 160 DE	SHALL HAVE AN AF EG. F, A LOCKABLE	PROACH TEMPE	SETTING FEATURE, A	ND SHALL COME
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EQUIPMI NO. MV-1 PUMP NO. LO	1ENT 1 CHEDULE	LOC MEC	CATION TH ROOM	RANG 125 PS		0.5 GPM		1-1/4" MOTOR DATA	OUTLET SIZ	ZE M/	ANUFACTUER WATTS BRONZE OR STAINLES	LFS SPE	SH1434 CIFICATION IG, STAINLESS STI F LUBRICATING W	15-1/4" X 9 EEL REPLACEABLE CAF /ITH NO MECHANICAL S	.1/4"	LEAD FREI TEMPERA STANDARI AND CSA F	TURE RANG D WITH UNI B125. R NSF APPRO	E FROM 90 DEG.	F TO 160 DE S. VALVE SH	SHALL HAVE AN AF EG. F, A LOCKABLE	PROACH TEMPE	SETTING FEATURE, A	ND SHALL COME

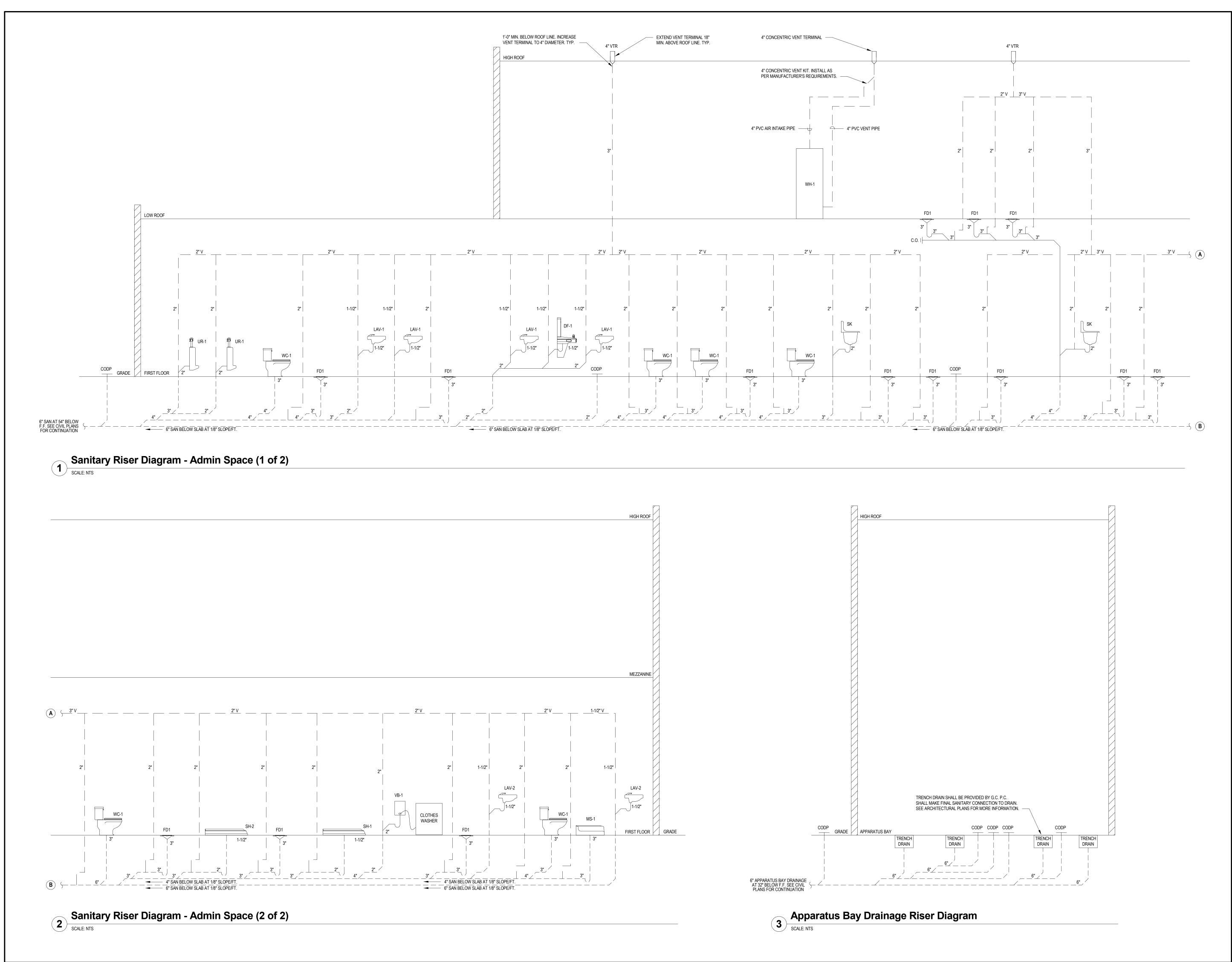
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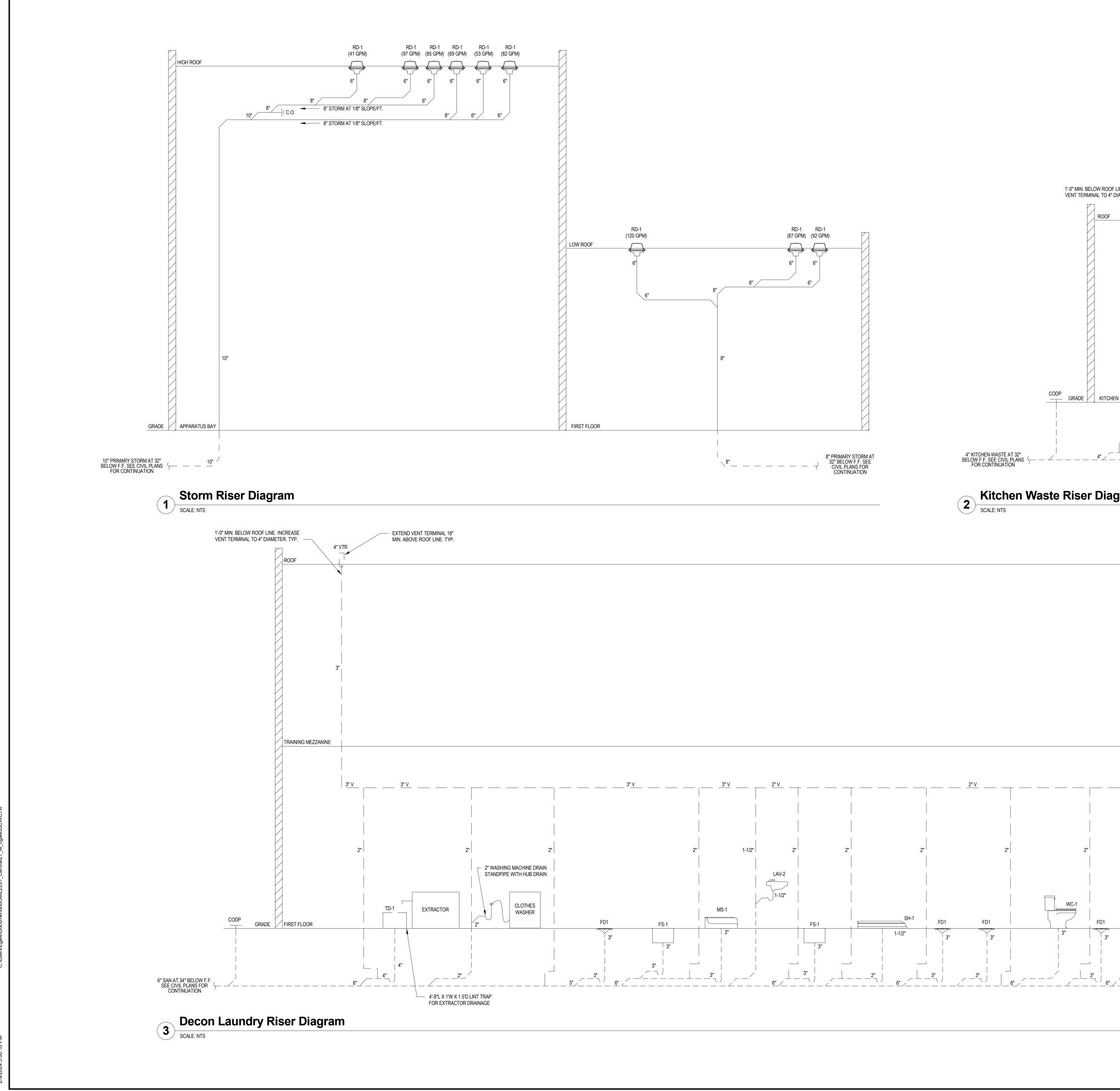




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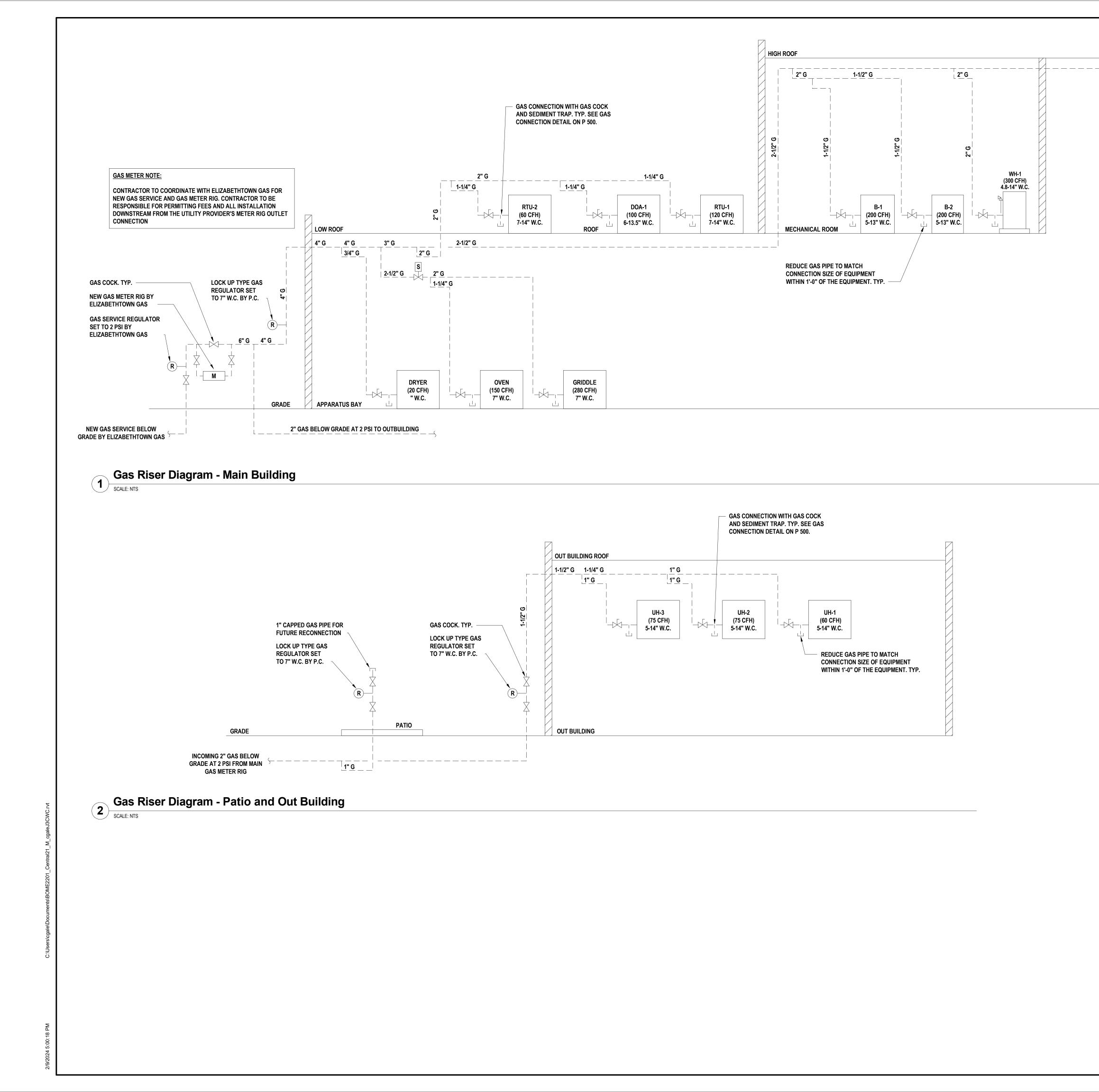
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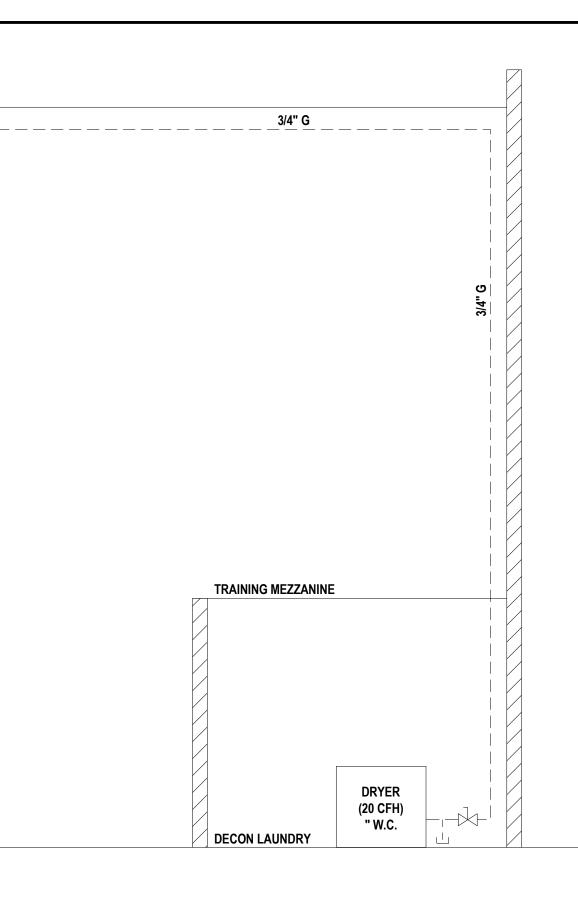


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