	PLU	MBIN	G ABBREVIATION	ONS	
AG ADD ADDL ADJ AFF AFG ALT APPRX ARCH BG BLDG BI BOP BOT BSMT BTWN CI CL CLR CO	ABOVE GRADE ADDENDUM ADDITIONAL ADJUSTABLE ABOVE FINISH FLOOR ABOVE FINISH GRADE ALTERNATE APPROXIMATE APPROXIMATE ARCHITECT, ARCHITECTURAL BELOW GRADE BUILDING BLACK IRON BOTTOM OF PIPE BOTTOM BASEMENT BETWEEN CAST IRON CENTERLINE CLEAR CLEANOUT	FCO FD FLR FPM FT FURN GALV GC GPM GYP HA HB HORIZ HP HT HW HWR	FLOOR CLEANOUT FLOOR DRAIN FLOOR FEET PER MINUTE FOOT (FEET) FURNACE GAUGE/GAGE GALLON GALVANIZED GENERAL CONTRACTOR GALLONS PER MINUTE GYPSUM HAMMER ARRESTOR HOSE BIB HORIZONTAL HORSEPOWER HEIGHT HOT WATER HOT WATER	PSF PSI PWR QTY R RD REQD REV RPM SAN SCH SCW SECT SF SHT SHWR SIM SPEC SQ	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POWER QUANTITY RADIUS ROOF DRAIN REQUIRED REVERSE OR REVISION REVOLUTIONS PER MINUTE SANITARY SCHEDULE SOFT COLD WATER SECTION SQUARE FEET SHEET SHOWER SIMILAR SPECIFICATIONS SQUARE
COL COMP CONC COND CONN CONT CW	CLEANOUT COLUMN COMPRESSOR CONCRETE CONDENSATE CONNECTION CONTINUOUS CHILLED/COLD WATER	IE IN INSUL LB LOC	INVERT ELEVATION INCH INSULATION POUND LOCATION	SQ SS T&B TEMP	SQUARE STAINLESS STEEL TOP AND BOTTOM TEMPERATURE OR TEMPORARY TYPICAL
DEPT DET DF DIA OR DN DW DWG	DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DOWN DEIONIZED WATER DRAWING	MAX MC MECH MIN MFR NFC NIC NTS	MAXIMUM MECHANICAL CONTRACTOR MECHANICAL MINIMUM MANUFACTURER NOT FOR CONSTRUCTION NOT IN CONTRACT NOT TO SCALE	UNO V VAR VERT VOL VS VTR	UNLESS NOTED OTHERWISE VENT VARIABLE OR VARIES VERTICAL VOLUME VENT STACK VENT THRU ROOF
EC ECO EL ELEC EQ EQUIP EXIST	ELECTRICAL CONTRACTOR EXTERIOR CLEANOUT ELEVATION ELECTRICAL EQUAL EQUIPMENT EXISTING	OC OPNG OPP PC PERP PLB PRES	ON CENTER OPENING OPPOSITE PLUMBING CONTRACTOR PERPENDICULAR PLUMBING PRESSURE	W/ W/IN W/O WC WCO WG WP WT	WITH WITHIN WITH OUT WATER COLUMN (INCHES OF) WALL CLEANOUT WATER GAUGE WEATHER PROOF WEIGHT

GENERAL PLUMBING NOTES

- INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL
- APPLICABLE CODES AND GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION
- SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS

THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL

- ALL SANITARY PIPING SHALL HAVE A 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. 2" SANITARY OR 20. SMALLER SHALL HAVE A 1/4" PER FOOT SLOPE.
- VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR)
- VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.

SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL
- INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY-FABRICATED. INSTALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS - ZURN, JOSAM, JAY R. SMITH, WATTS, SIOUX CHIEF.
- AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL 29. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE. CHANGES IN THE DIRECTION OF SANITARY AND STORM DRAIN PIPING SHALL NOT BE MADE WITH

FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (I.E.: USE OF SANITARY TEE IN A

- HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION). CONTRACTOR SHALL GIVE 48 HOURS/24 HOUR EMERGENCY LOCATE NOTICE TO APPLICABLE UTILITY COMPANY PRIOR TO PERFORMING WORK INVOLVING UTILITIES.
- ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES WITH LESS THAN 8" MINIMUM VERTICAL CLEARANCE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (10'-0" EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 8" MINIMUM CLEARANCE.

18. CONTRACTOR SHALL GIVE 24 HOUR NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM THE BUILDING ADMINISTRATOR (OR HIS REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUTDOWN POINTS WITH THE OWNER REPRESENTATIVE (I.E.: ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.

- 19. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 21. COORDINATE WITH ARCHITECT/GENERAL CONTRACTOR FOR INSTALLATION OF HOSE BIBBS.
- 22. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE
- TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- 23. ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
- 24. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- 25. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.

REQUIRED BY LOCAL WATER PURVEYORS. TEST AND REGISTER WITH APPROPRIATE CODE

PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS

- 28. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL
- DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- 30. DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
- 31. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
- 32. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.

P000 PLUMBING TITLE SHEET

PD100 BELOW GRADE PLUMBING DEMOLITION PLAN

PD100A GROUND LEVEL PLUMBING DEMOLITION PLAN

PD101 LEVEL ONE PLUMBING DEMOLITION PLAN

PD102 LEVEL TWO PLUMBING DEMOLITION PLAN

PD103 LEVEL THREE PLUMBING DEMOLITION PLAN

PD104 ROOF ATTIC PLUMBING DEMOLITION PLAN

PD105 ROOF PLUMBING DEMOLITION PLAN

PD200 PLUMBING DEMOLITION PHOTOS

P100 BELOW GRADE PLUMBING PLAN P100A GROUND LEVEL PLUMBING PLAN

P101 LEVEL ONE PLUMBING PLAN

P102 LEVEL TWO PLUMBING PLAN

P103 LEVEL THREE PLUMBING PLAN

P200 SANITARY PLUMBING ISOMETRIC

P200A SANITARY PLUMBING ISOMETRIC

P201 SANITARY PLUMBING ISOMETRIC P201A SANITARY PLUMBING ISOMETRIC

P202 WATER PLUMBING ISOMETRIC P202A WATER PLUMBING ISOMETRIC P203 WATER PLUMBING ISOMETRIC

P204 STORM PLUMBING ISOMETRIC P400 ENLARGED PLUMBING PLANS

P410 PLUMBING DETAILS

P600 PLUMBING SCHEDULES

P104 ROOF ATTIC PLUMBING PLAN

P105 ROOF PLUMBING PLAN

ANY ERRORS OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE WORK IS STARTED. OMISSION OF PARTICULAR REFERENCE TO ANY ITEM NECESSARY FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING THE SAME AT NO EXTRA COST. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DOCUMENTS FOR INFORMATION PRIOR TO

PLUMBING SHEET INDEX

	CIRCUIT SETTER
⊸ ≱—	BALL VALVE OR SHUT-OFF VALVE
7	SPRING CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
W.W.	RPZ VALVE OR BACKFLOW PREVENTER
P	HAMMER ARRESTOR (PISTON TYPE)
ø	HAMMER ARRESTOR (BELLOWS TYPE)
→	PIPE REDUCER FITTING
E	END CAP
-	PIPE CONNECTION
_	FLOW DIRECTION ARROW
G	PIPING ELBOW DOWN
-	PIPING ELBOW UP OR PIPING RISER UP & DOWN
-	PIPING TEE DOWN
—	PIPING TEE UP OR PIPING RISER UP & DOWN
⊶	HOSE BIB OR WALL HYDRANT
W	FLOW METER
®	PRESSURE REGULATOR
•	CIRCULATING PUMP (HOT WATER RETURN)
	NEW TO EXISTING PIPE CONNECTION
•	NEW TO EXISTING POINT OF CONNECTION SYMBOL
0	EXTENT OF DEMO

WATER CALCULATIONS WORKSHEET

- 116 DEMAND OF BUILDING IN GALLONS PER MINUTE. 339 WSFUs (DOMESTIC)
- 60 LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK. 3. 0 DIFFERENCE IN ELEVATION FROM MAIN TO METER.
- 4. 2" SIZE OF WATER METER IN INCHES.
- 150' DEVELOPED LENGTH FROM CURBSTOP TO METER.
- 6. 0 FIND PRESSURE LOSS DUE TO FRICTION IN 8"WATER SERVICE. 0(PSI/100 FT)
- 7. 0 FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE). MULTIPLY THE DIFFERENCE BY .434 PSI/FT.
- 8. 3 FIND THE PRESSURE LOSS DUE TO METER.
- 57 SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7). AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS ANSWER IS ENTERED IN LINE B, BELOW.

INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:

- FORMULA: $A = [B (C + D + E)] \times 100 / F$
- A. 2 PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).
- B. 57 AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).
- C. 25 PRESSURE NEEDED AT CONTROLLING FIXTURE.

FEET450x 1.5.

- <u>D.</u> 20 DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET
- . 3.5 PRESSURE LOSS DUE TO WATER SOFTNERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.

675 DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN

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Summit Fire Consulting

Gallina Design

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin. ENGINEER SEAL

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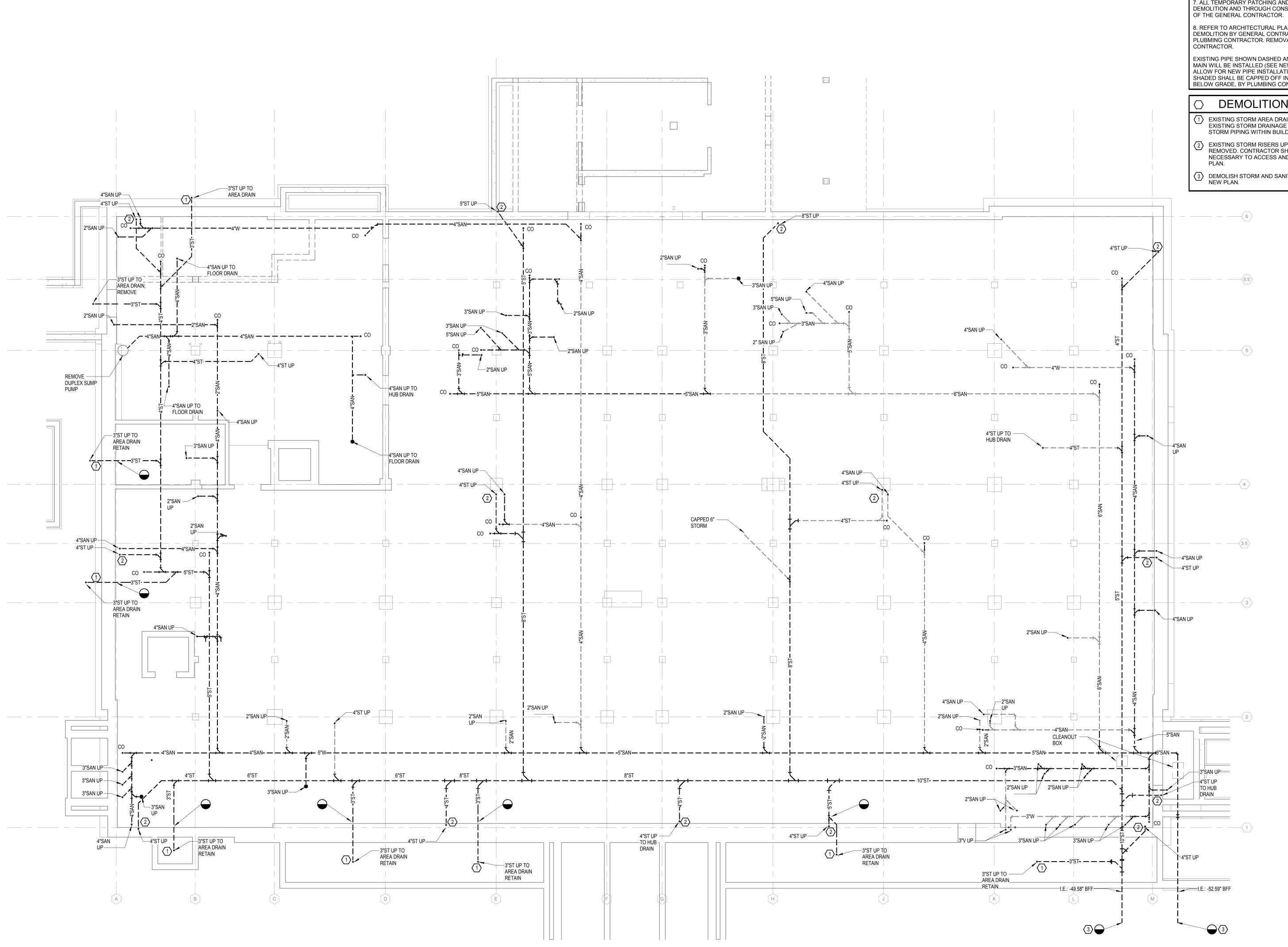
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BID SET BTB/NFE

SHEET

PLUMBING TITLE

EXHIBIT J P000



BELOW GRADE PLUMBING DEMOLITION PLAN

GENERAL DEMOLITION NOTES

1. ALL EQUIPMENT AND PIPING SHOWN OR NOT SHOWN SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED.

2. CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND PIPING SHOWN DASHED. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND COORDINATE RECYCLING WITH GENERAL CONTRACTOR.

3. RISERS SHOWN SHALL ALL BE DEMOLISHED.

4. PIPING RUN-OUTS ARE NOT SHOWN; ALL SUCH SHALL BE REMOVED. 5. DEMOLITION SHALL INCLUDE ALL HANGERS AND SUPPORTS; NO SUCH SHALL BE LEFT IN PLACE.

6. THIS CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF NON-STRUCTURAL BUILDING COMPONENTS AS NEEDED TO EXECUTE DEMOLITION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF STRUCTURAL COMPONENTS SUCH AS FLOORS, STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.

7. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEMOLITION. FLOOR DEMOLITION BY GENERAL CONTRACTOR IN COORDINATION WITH PLUBMING CONTRACTOR. REMOVAL OF EXISTING PIPE BY PLUMBING

EXISTING PIPE SHOWN DASHED AND BOLD IS LOCATED WHERE NEW MAIN WILL BE INSTALLED (SEE NEW PLAN). REMOVE PIPE ENTIRELY TO ALLOW FOR NEW PIPE INSTALLATION. PIPE SHOWN DASHED AND SHADED SHALL BE CAPPED OFF IN BOTH DIRECTIONS AND ABANDONED BELOW GRADE, BY PLUMBING CONTRACTOR.

DEMOLITION KEYED NOTES

- EXISTING STORM AREA DRAIN SHALL REMAIN IN PLACE. RETAIN EXISTING STORM DRAINAGE FROM AREA DRAIN INTO BUILDING. ALL STORM PIPING WITHIN BUILDING SHALL BE REMOVED, AS SHOWN.
- (2) EXISTING STORM RISERS UP, EXCEPT WHERE NOTED, SHALL BE REMOVED. CONTRACTOR SHALL DEMOLITION WALLS AS NECESSARY TO ACCESS AND REMOVE LEADERS. REFER TO NEW
- 3 DEMOLISH STORM AND SANITARY OUT 5'-0" FROM BUILDING. SEE

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PROJECT NO.

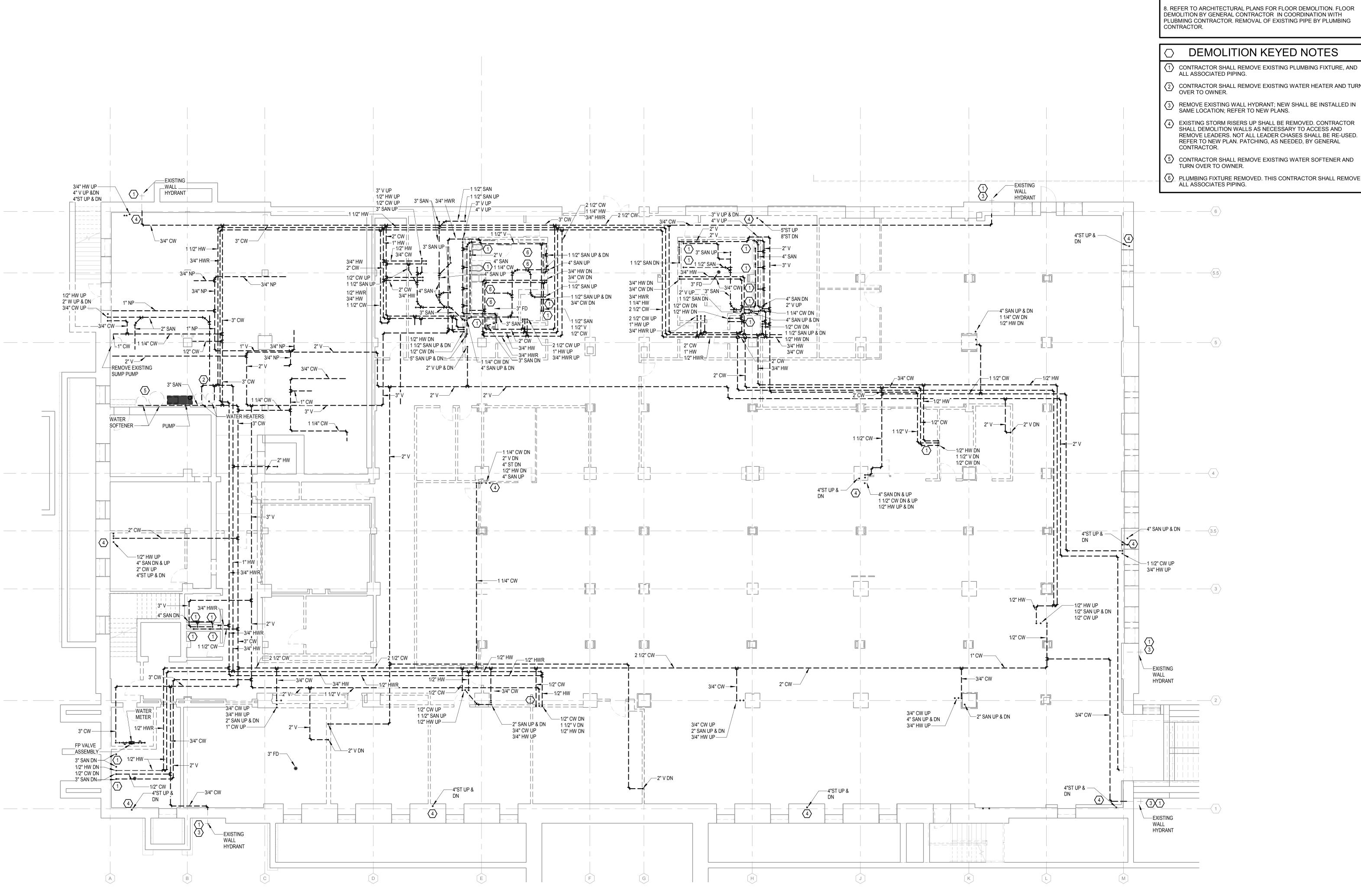
2014057 PROJECT PHASE BTB/NFE

PROJECT NORTH TRUE NORTH

BELOW GRADE PLUMBING

EXHIBIT J

DEMOLITION PLAN



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STRUCTURAL WALLS, AND STRUCTURAL CEILINGS. 7. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEMOLITION. FLOOR DEMOLITION BY GENERAL CONTRACTOR IN COORDINATION WITH PLUBMING CONTRACTOR. REMOVAL OF EXISTING PIPE BY PLUMBING

- (2) CONTRACTOR SHALL REMOVE EXISTING WATER HEATER AND TURN

- SHALL DEMOLITION WALLS AS NECESSARY TO ACCESS AND REMOVE LEADERS. NOT ALL LEADER CHASES SHALL BE RE-USED. REFER TO NEW PLAN. PATCHING, AS NEEDED, BY GENERAL
- (5) CONTRACTOR SHALL REMOVE EXISTING WATER SOFTENER AND
- 6 PLUMBING FIXTURE REMOVED. THIS CONTRACTOR SHALL REMOVE

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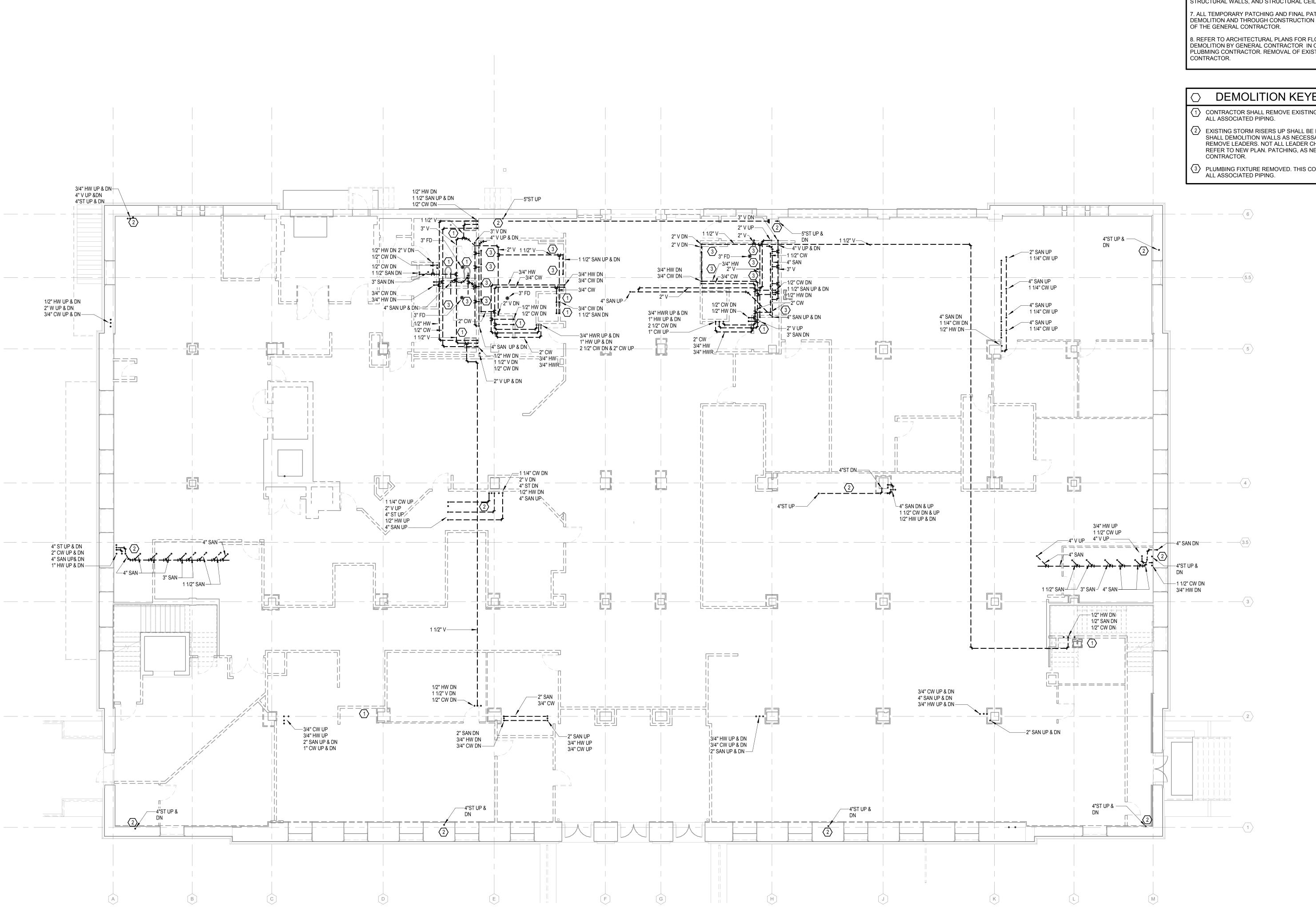
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PROJECT NO. 2014057 PROJECT PHASE

BTB/NFE **GROUND LEVEL PLUMBING**

DEMOLITION PLAN

EXHIBIT J PD100A



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DEMOLITION KEYED NOTES

(1) CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURE, AND

- EXISTING STORM RISERS UP SHALL BE REMOVED. CONTRACTOR SHALL DEMOLITION WALLS AS NECESSARY TO ACCESS AND REMOVE LEADERS. NOT ALL LEADER CHASES SHALL BE RE-USED. REFER TO NEW PLAN. PATCHING, AS NEEDED, BY GENERAL
- (3) PLUMBING FIXTURE REMOVED. THIS CONTRACTOR SHALL REMOVE

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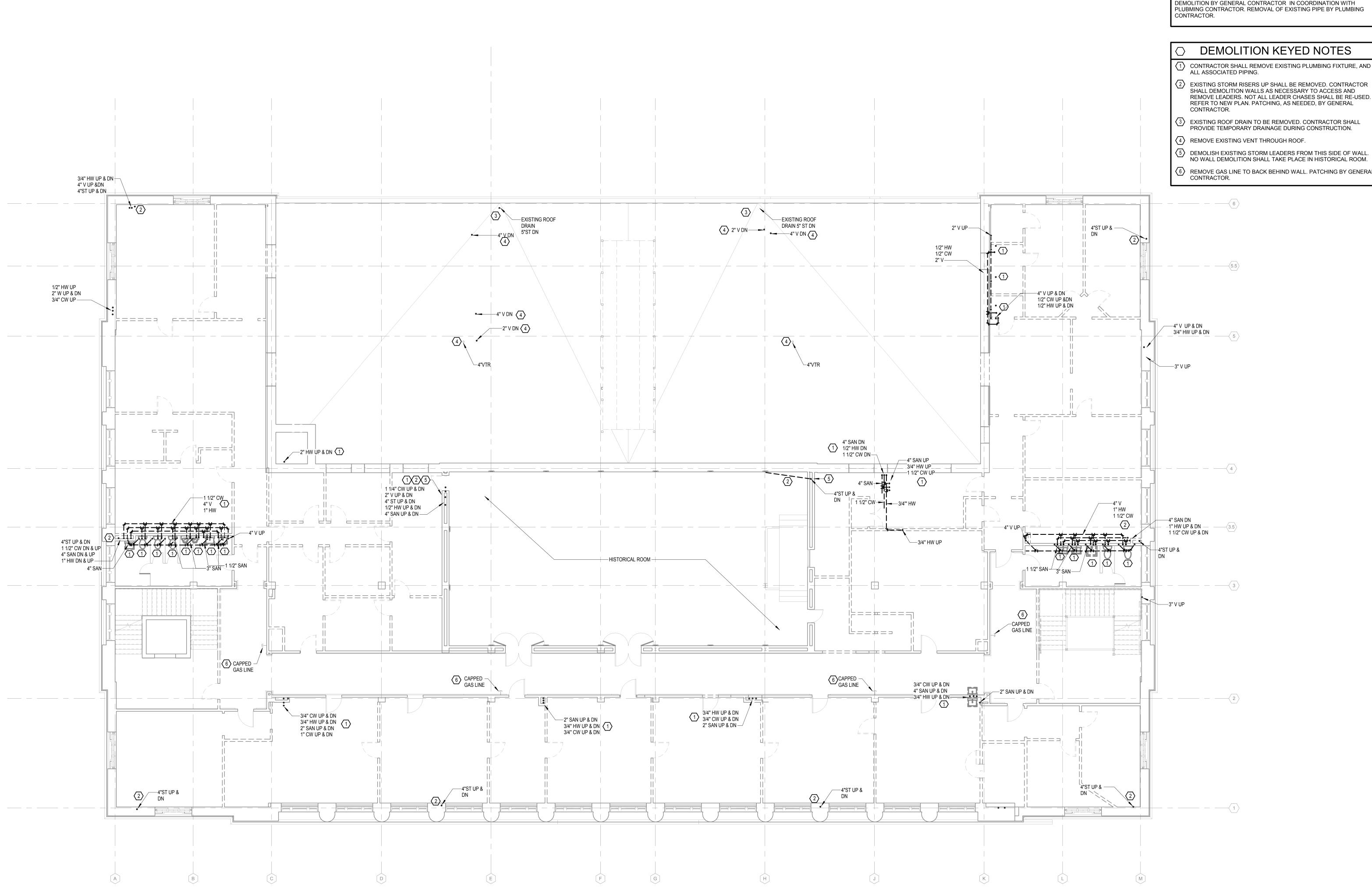
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LEVEL ONE **PLUMBING**

DEMOLITION PLAN

EXHIBIT J



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7. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEMOLITION. FLOOR DEMOLITION BY GENERAL CONTRACTOR IN COORDINATION WITH PLUBMING CONTRACTOR. REMOVAL OF EXISTING PIPE BY PLUMBING

DEMOLITION KEYED NOTES

(1) CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURE, AND

- (2) EXISTING STORM RISERS UP SHALL BE REMOVED. CONTRACTOR SHALL DEMOLITION WALLS AS NECESSARY TO ACCESS AND REMOVE LEADERS. NOT ALL LEADER CHASES SHALL BE RE-USED. REFER TO NEW PLAN. PATCHING, AS NEEDED, BY GENERAL
- (3) EXISTING ROOF DRAIN TO BE REMOVED. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION.

- (6) REMOVE GAS LINE TO BACK BEHIND WALL. PATCHING BY GENERAL

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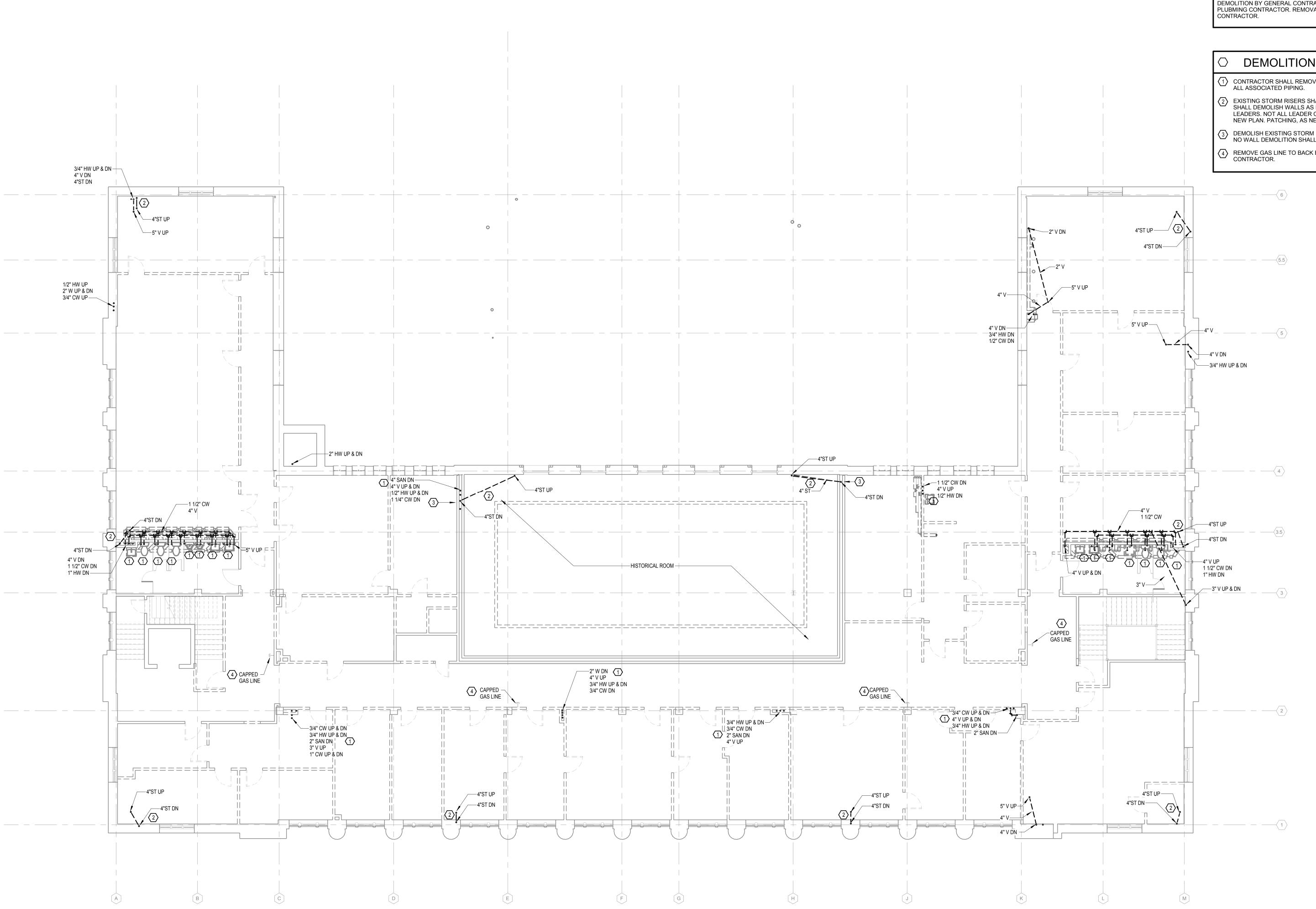
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LEVEL TWO **PLUMBING DEMOLITION PLAN**

EXHIBIT J



LEVEL 3 PLUMBING DEMOLITION PLAN

GENERAL DEMOLITION NOTES

1. ALL EQUIPMENT AND PIPING SHOWN OR NOT SHOWN SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. 2. CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND PIPING SHOWN DASHED. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL SUCH FROM SITE AND DISPOSE OF AS REQUIRED BY CODE. CONTRACTOR SHALL RECYCLE ALL POSSIBLE MATERIALS AND

COORDINATE RECYCLING WITH GENERAL CONTRACTOR.

3. RISERS SHOWN SHALL ALL BE DEMOLISHED.

OF THE GENERAL CONTRACTOR.

4. PIPING RUN-OUTS ARE NOT SHOWN; ALL SUCH SHALL BE REMOVED. 5. DEMOLITION SHALL INCLUDE ALL HANGERS AND SUPPORTS; NO SUCH SHALL BE LEFT IN PLACE.

6. THIS CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF NON-STRUCTURAL BUILDING COMPONENTS AS NEEDED TO EXECUTE DEMOLITION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF STRUCTURAL COMPONENTS SUCH AS FLOORS, STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.

7. ALL TEMPORARY PATCHING AND FINAL PATCHING NEEDED FOR DEMOLITION AND THROUGH CONSTRUCTION ARE THE RESPONSIBILITY

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEMOLITION. FLOOR DEMOLITION BY GENERAL CONTRACTOR IN COORDINATION WITH PLUBMING CONTRACTOR. REMOVAL OF EXISTING PIPE BY PLUMBING

DEMOLITION KEYED NOTES

CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURE, AND ALL ASSOCIATED PIPING.

- $\overline{2}$ EXISTING STORM RISERS SHALL BE REMOVED. CONTRACTOR SHALL DEMOLISH WALLS AS NECESSARY TO ACCESS AND REMOVE LEADERS, NOT ALL LEADER CHASES SHALL BE RE-USED, REFER TO NEW PLAN. PATCHING, AS NEEDED, BY GENERAL CONTRACTOR.
- (3) DEMOLISH EXISTING STORM LEADERS FROM THIS SIDE OF WALL. NO WALL DEMOLITION SHALL TAKE PLACE IN HISTORICAL ROOM.
- REMOVE GAS LINE TO BACK BEHIND WALL. PATCHING BY GENERAL CONTRACTOR.

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LEVEL THREE **PLUMBING DEMOLITION PLAN**

EXHIBIT J

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3. RISERS SHOWN SHALL ALL BE DEMOLISHED.

STRUCTURAL WALLS, AND STRUCTURAL CEILINGS.

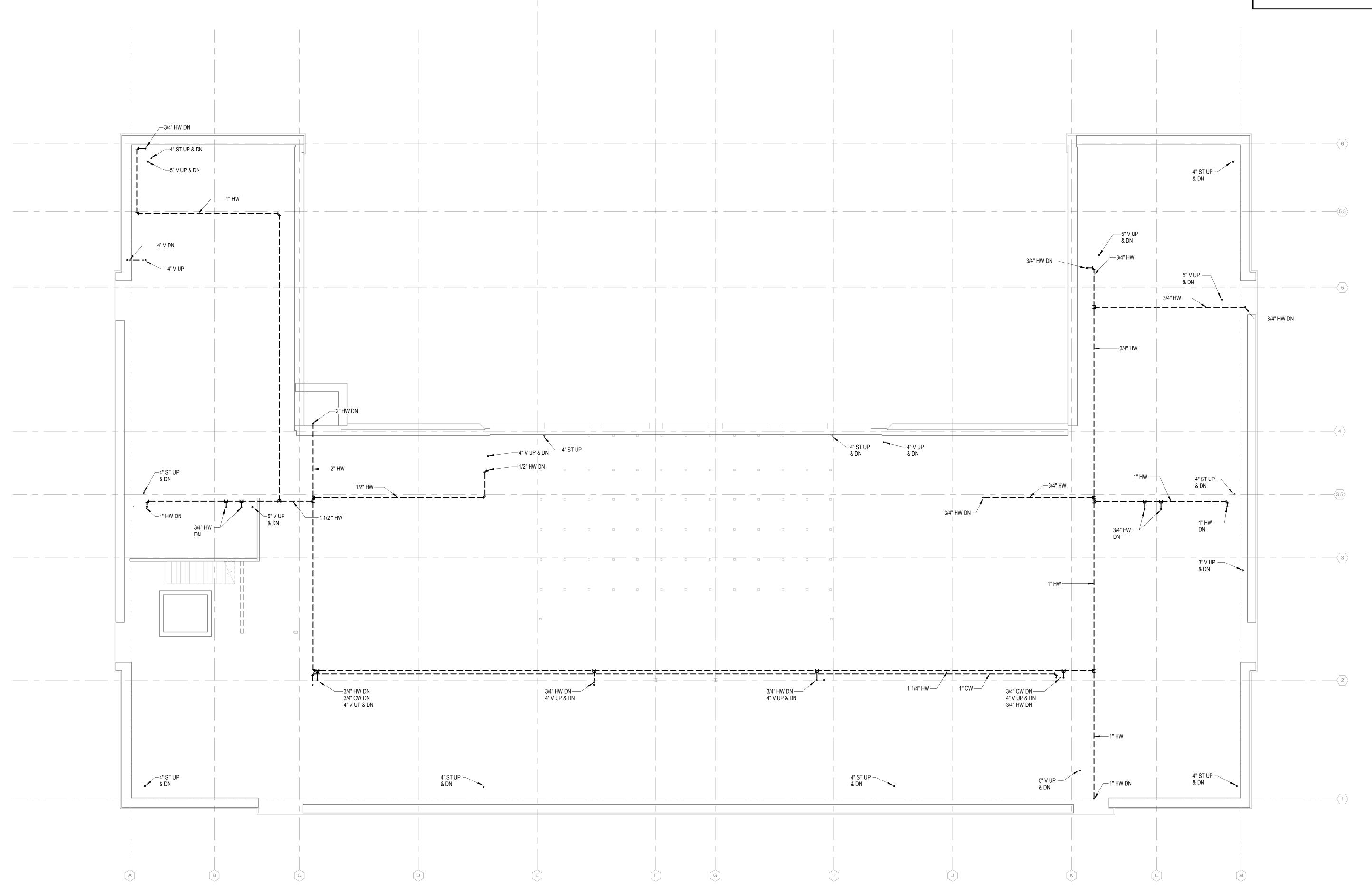
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ATTIC SPACE PLUMBING DEMOLITION

1/8" = 1"-0"



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Print Names:

Date: License No:

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24 03 2017 RID SET

MARK DATE DESCRIPTION
24.03.2017 BID SET

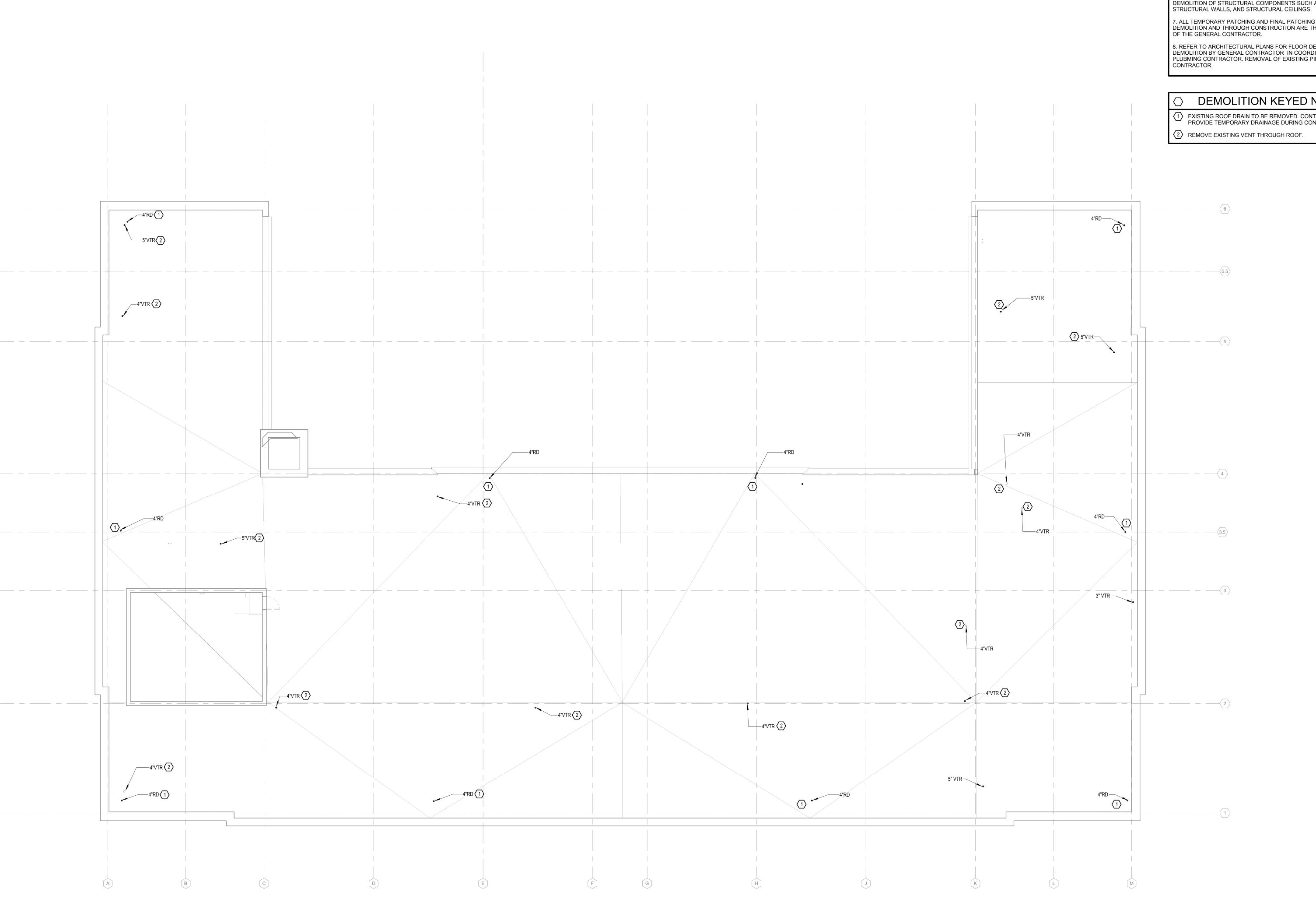
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ROJECT PHASE

PROJECT PHASE
BID SE

DRAWN BY:
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BTB/NFE
C

ROOF ATTIC PLUMBING DEMOLITION PLAN

EXHIBIT J



1. ALL EQUIPMENT AND PIPING SHOWN OR NOT SHOWN SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED.

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DEMOLITION KEYED NOTES

EXISTING ROOF DRAIN TO BE REMOVED. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION.

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ROOF PLUMBING DEMOLITION PLAN

EXHIBIT J



2 NATURAL GAS REGULATOR



RESTROOM PLUMBING FIXTURES NTS



3 PLUMBING ASSEMBLY

DISCONNECT AND RETAIN
WATER SOFTENER AND
TURN OVER TO OWNER.

NOTES:

1. DEMOLISH ALL PLUMBING EQUIPMENT SHOWN IN PHOTOS UNLESS NOTED OTHERWISE.
2. COORDINATE FOR DEMOLITION OF ALL MECHANICAL AND ELECTRICAL; REFER TO ASSOCIATED DISCIPLINE PLANS. IN ANY EVENT, NO MECHANICAL OR ELECTRICAL ITEMS ASSOCIATED WITH PLUMBING ITEMS TO BE DEMOLISHED SHALL BE LEFT IN PLACE.
3. PHOTOS ARE PROVIDED FOR REFERENCE, AND DO NOT INDICATE ALL EQUIPMENT/ITEMS TO BE DEMOLISHED.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS AND SCOPE OF WORK.

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Date:

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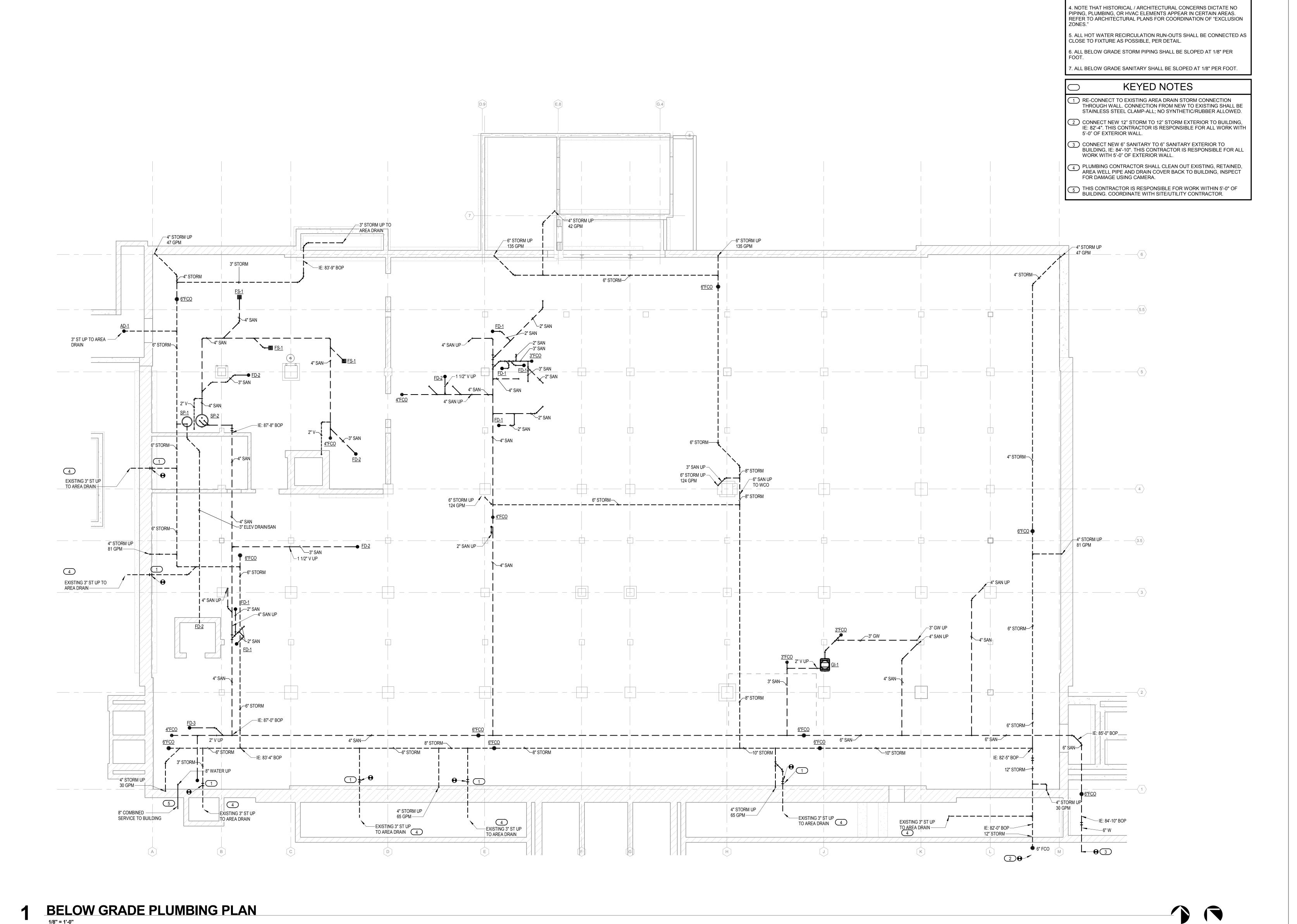
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PLUMBING DEMOLITION

PHOTOS EXHIBIT J



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GENERAL NOTES

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET P410.

2. REFER TO PLUMBING FIXTURE SCHEDULE FOR FINAL CONNECTION

3. REFER TO ISOMETRIC RISERS FOR ADDITIONAL INFORMATION AND

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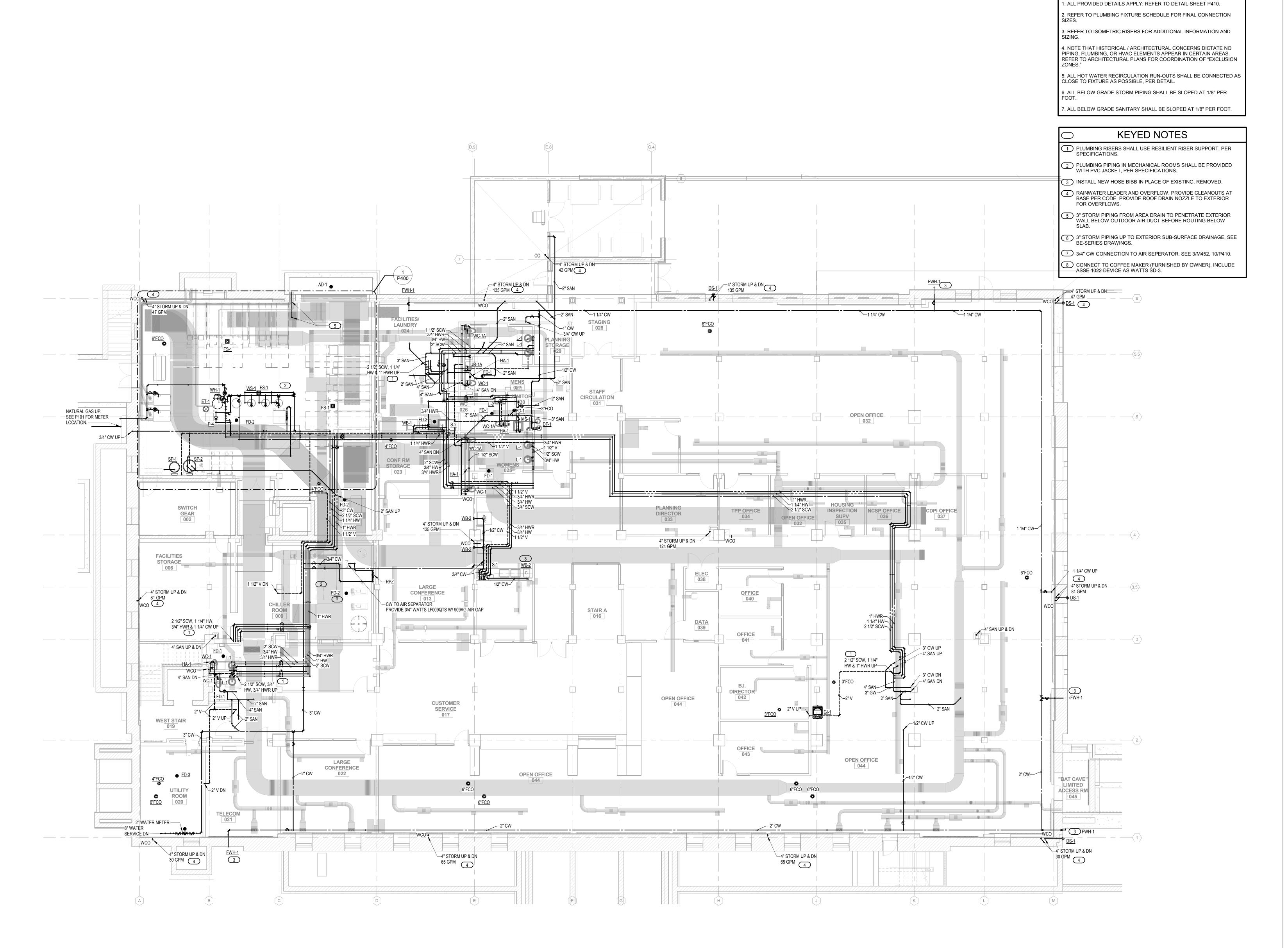
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RCA

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BELOW GRADE

PLUMBING PLAN

EXHIBIT J **P100**



GROUND LEVEL PLUMBING PLAN

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GROUND LEVEL

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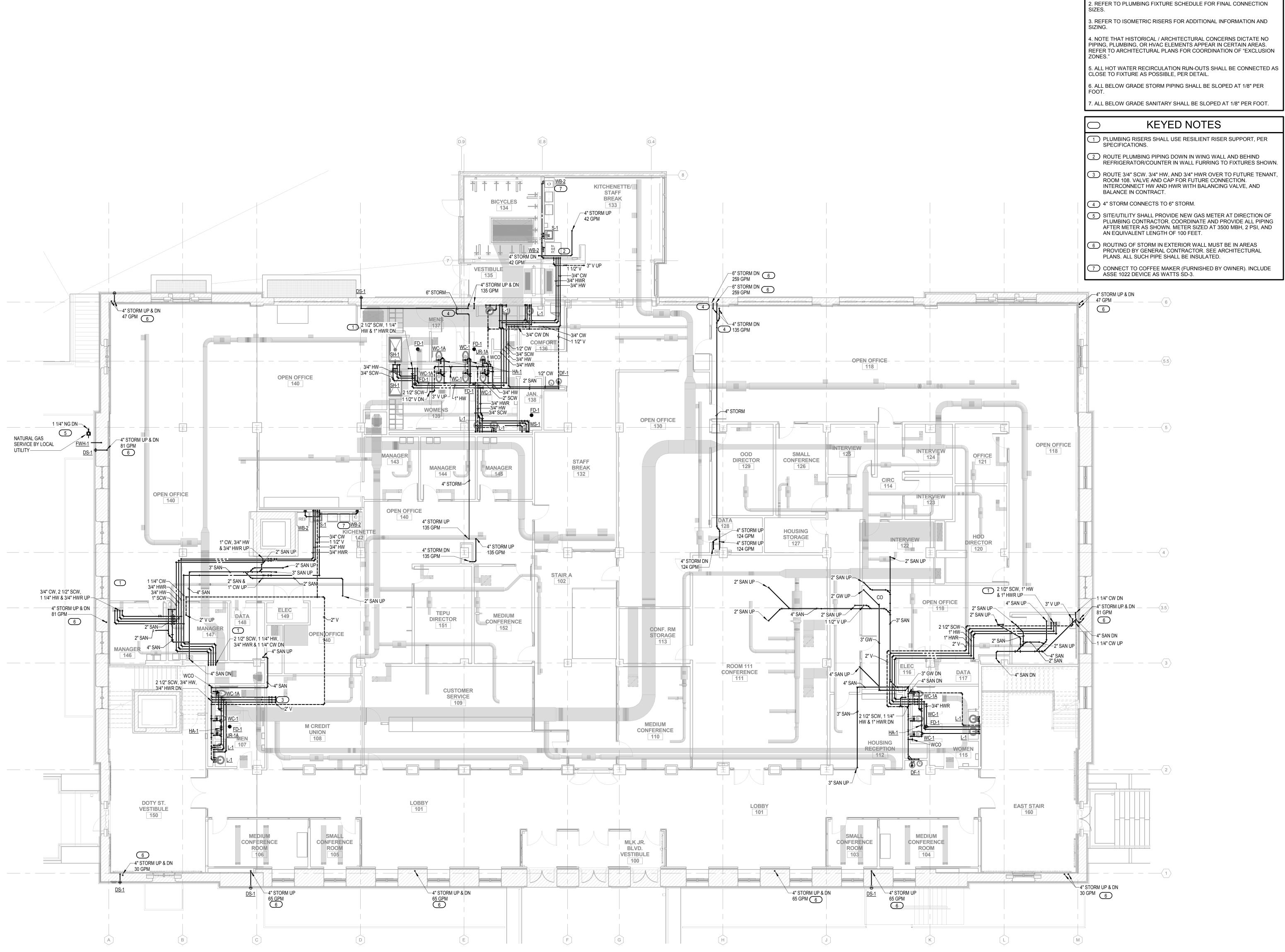
GENERAL NOTES

PLUMBING PLAN

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1 LEVEL 1 PLUMBING PLAN



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507.867.1628 tel

Preservation Architect

Charles Quagliana, AIA

LL MUST BE IN AREAS
R. SEE ARCHITECTURAL
JLATED.

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Mazomanie, WI 53560
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GENERAL NOTES

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Print Names: ______ License No: ______

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PROJECT NO. 2014057

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LEVEL ONE PLUMBING PLAN

EXHIBIT J

GENERAL NOTES

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET P410. 2. REFER TO PLUMBING FIXTURE SCHEDULE FOR FINAL CONNECTION

3. REFER TO ISOMETRIC RISERS FOR ADDITIONAL INFORMATION AND

4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS. REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION

6. ALL BELOW GRADE STORM PIPING SHALL BE SLOPED AT 1/8" PER

7. ALL BELOW GRADE SANITARY SHALL BE SLOPED AT 1/8" PER FOOT.

5. ALL HOT WATER RECIRCULATION RUN-OUTS SHALL BE CONNECTED AS PLANS. ALL SUCH PIPE SHALL BE INSULATED. CLOSE TO FIXTURE AS POSSIBLE, PER DETAIL.

SPECIFICATIONS.

5 ROUTING OF STORM IN EXTERIOR WALL MUST BE IN AREAS PROVIDED BY GENERAL CONTRACTOR. SEE ARCHITECTURAL

6 DRAIN 3/4" CONDENSATE INTO FLOOR DRAIN

7 SANITARY FROM KS-3 IS GREASE WASTE. USE PVC PIPE TO GREASE INTERCEPTOR.

8 ICEMAKER FURNISHED BY OWNER. PLUMBING CONTRACTOR TO INSTALL AND MAKE UTILITY CONNECTIONS. INCLUSE ASSE 1022 DEVICE, AS WATTS SD-3.

 COFFEE MAKER FURNISHED BY OWNER. PLUMBING CONTRACTOR TO INSTALL AND MAKE UTILITY CONNECTIONS. INCLUSE ASSE 1022 DEVICE, AS WATTS SD-3.

KEYED NOTES

1 PLUMBING RISERS SHALL USE RESILIENT RISER SUPPORT, PER

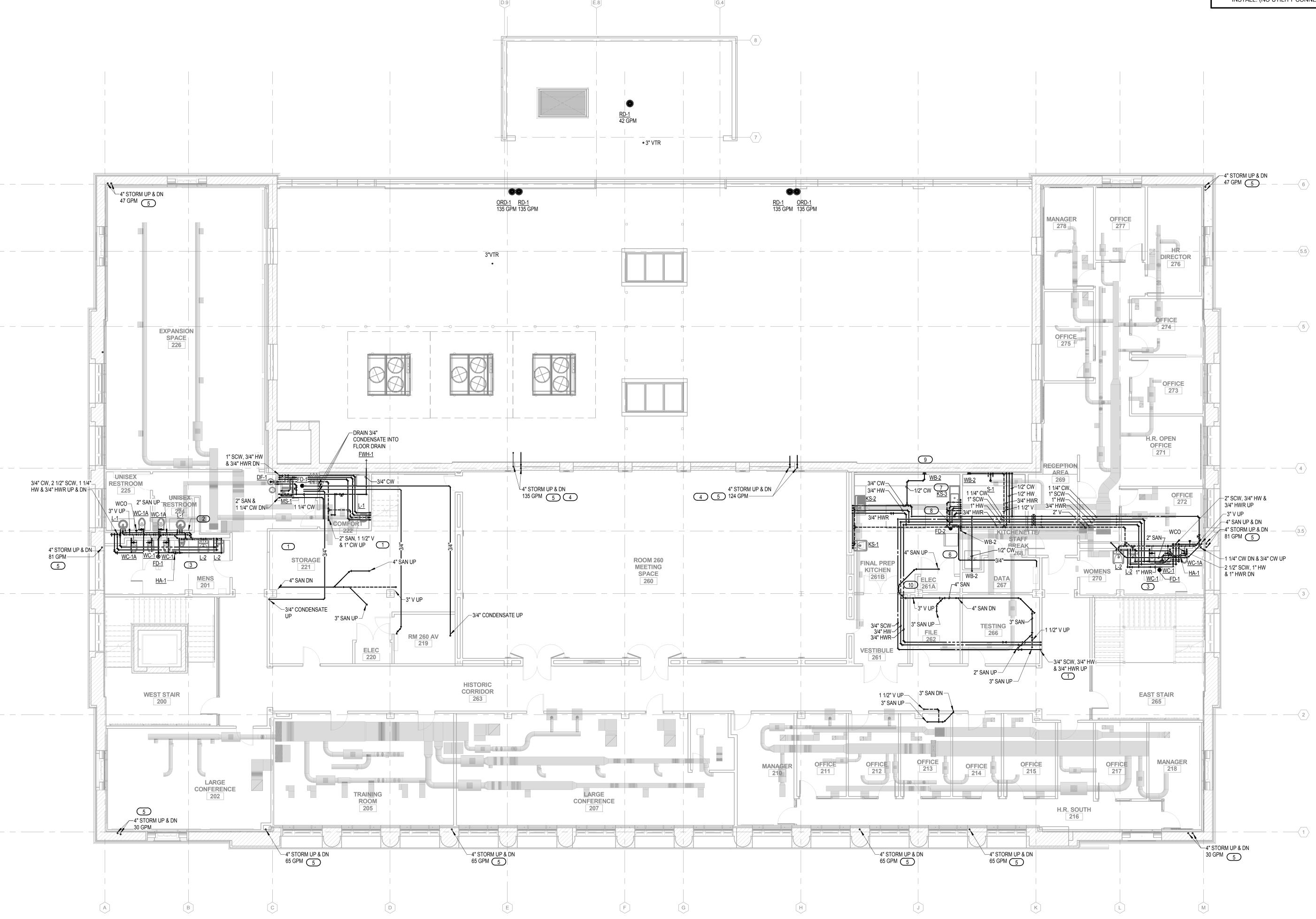
2 VALVING FOR RESTROOM ON FLOOR ABOVE IN WALL. ACCESS PANEL BY GENERAL CONTRACTOR.

3 ROUTE PIPING AS SHOWN AND PROVIDE SHUT-OFFS ACCESSIBLE.

4 OFFSET STORM PRIOR TO I-BEAM AT FLOOR LEVEL. ROUTE INTO

ROOF VOID SPACE, THEN DOWN (SEE P101). SEE ARCHITECTURAL

10 KEGERATOR FURNISHED BY OWNER. PLUMBING CONTRACTOR TO INSTALL. (NO UTILITY CONNECTIONS REQUIRED).



LEVEL 2 PLUMBING PLAN

PROJECT NORTH TRUE NORTH

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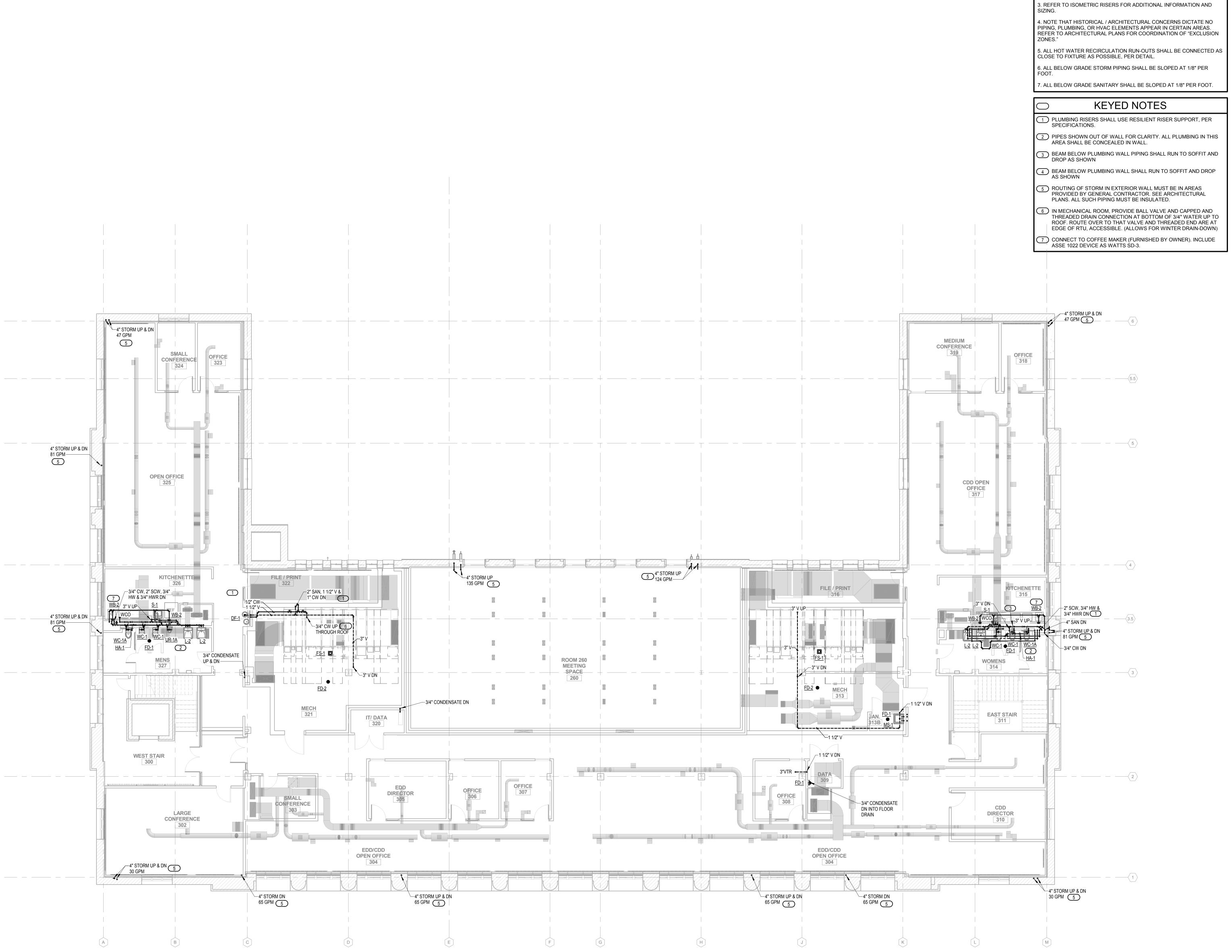
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PLUMBING PLAN

EXHIBIT J



GENERAL NOTES

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LEVEL THREE

PLUMBING PLAN

EXHIBIT J

GENERAL NOTES

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2. REFER TO PLUMBING FIXTURE SCHEDULE FOR FINAL CONNECTION SIZES.

3. REFER TO ISOMETRIC RISERS FOR ADDITIONAL INFORMATION AND SIZING.

4. NOTE THAT HISTORICAL / ARCHITECTURAL CONCERNS DICTATE NO PIPING, PLUMBING, OR HVAC ELEMENTS APPEAR IN CERTAIN AREAS. REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF "EXCLUSION ZONES."

5. ALL HOT WATER RECIRCULATION RUN-OUTS SHALL BE CONNECTED AS CLOSE TO FIXTURE AS POSSIBLE, PER DETAIL.

6. ALL BELOW GRADE STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT.

7. ALL BELOW GRADE SANITARY SHALL BE SLOPED AT 1/8" PER FOOT.

RAIN WATER LEADERS IN ATTIC SHALL BE INSULATED (HORIZONTAL AND VERTICAL).

4" STORM UP & DN 4" STORM UP & DN 47 GPM 1 47 GPM 1 4" STORM DN 81 GPM 4" STORM UP & DN 135 GPM 4" STORM UP & DN — 124 GPM /--3"V UP & DN __3"V UP & DN 3"V UP & DN— 4" STORM UP & DN 81 GPM 1 4" STORM UP 81 GPM 1 4" STORM UP & DN 4" STORM UP & DN 30 GPM 1 4" STORM UP & DN 65 GPM ___4" STORM UP & DN 4" STORM UP— 65 GPM 1 30 GPM 1 4" STORM UP & DN 65 GPM 1

PROJECT NORTH TRUE NORTH

P410.

NNECTION

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ROOF ATTIC

EXHIBIT J

P104

PLUMBING PLAN

1. ALL PROVIDED DETAILS APPLY; REFER TO DETAIL SHEET P410.

2. REFER TO PLUMBING FIXTURE SCHEDULE FOR FINAL CONNECTION SIZES.

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--VENT THROUGH ROOF SHALL EXTEND A MINIMUM OF 8" ABOVE FINISHED ROOF. VENT SHALL BE LOCATED A MINIMUM OF 10' FROM AIR INTAKE AND A MINIMUM OF 5' FROM OR 2" ABOVE PARAPET

7. ALL BELOW GRADE SANITARY SHALL BE SLOPED AT 1/8" PER FOOT.

3"VTR -3/4" CONDENSATE DN (BELOW STAIRS) 3/4" CONDENSATE 3"VTR ORD-1 RD-1 65 GPM 65 GPM ORD-1 RD-1 30 GPM 30 GPM

1 ROOF PLUMBING PLAN
1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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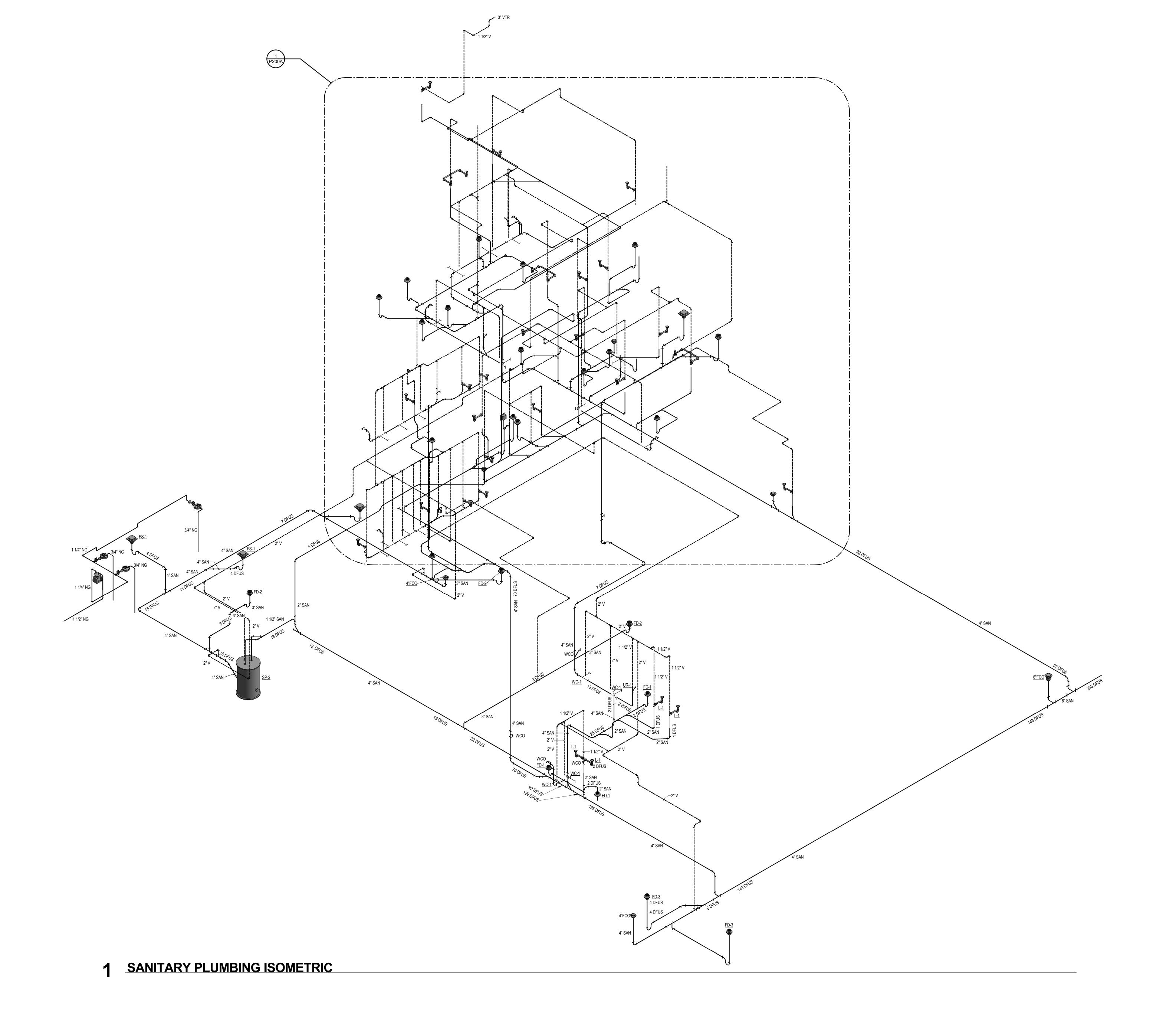
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ROOF PLUMBING

PLAN

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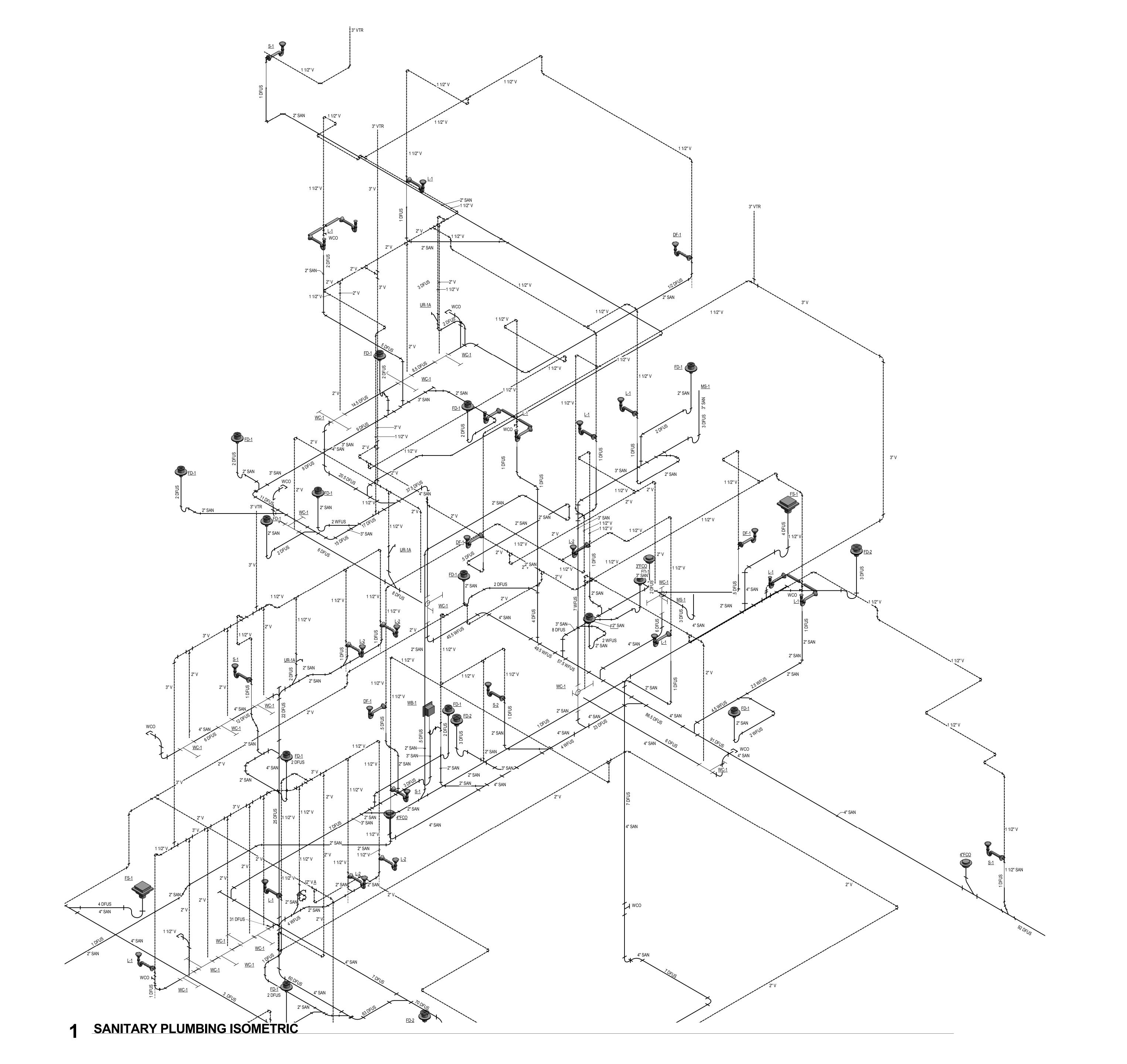
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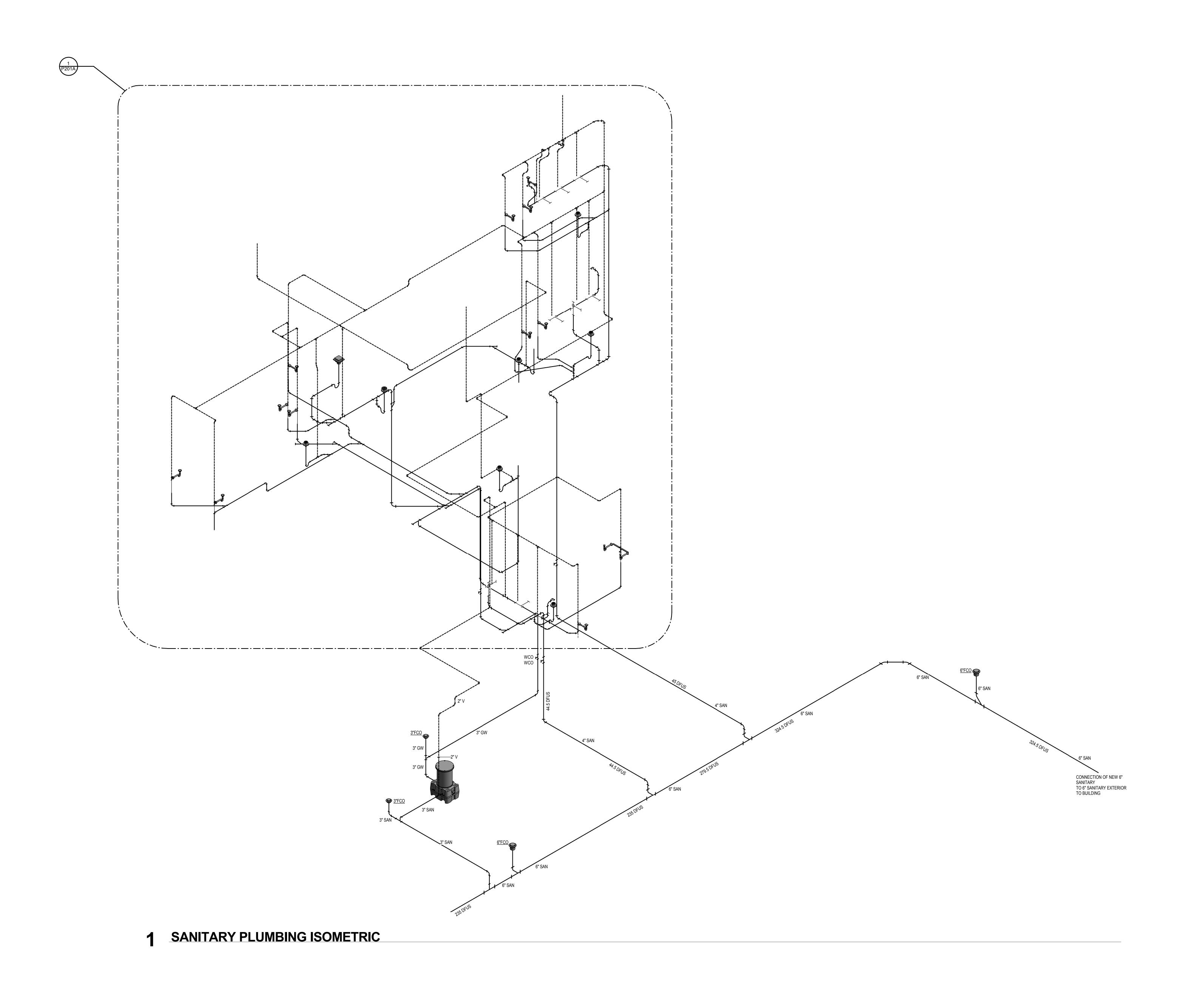
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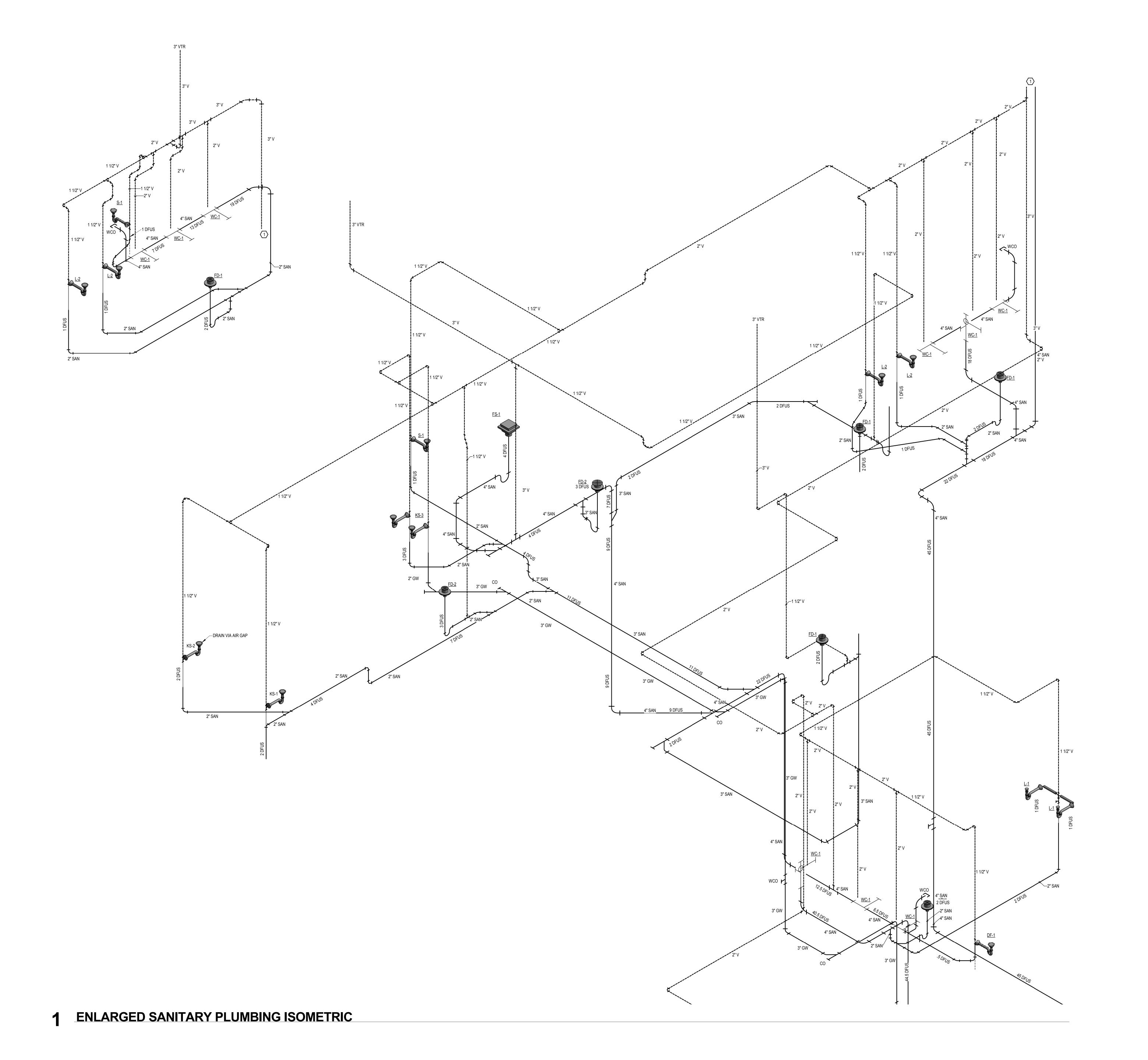
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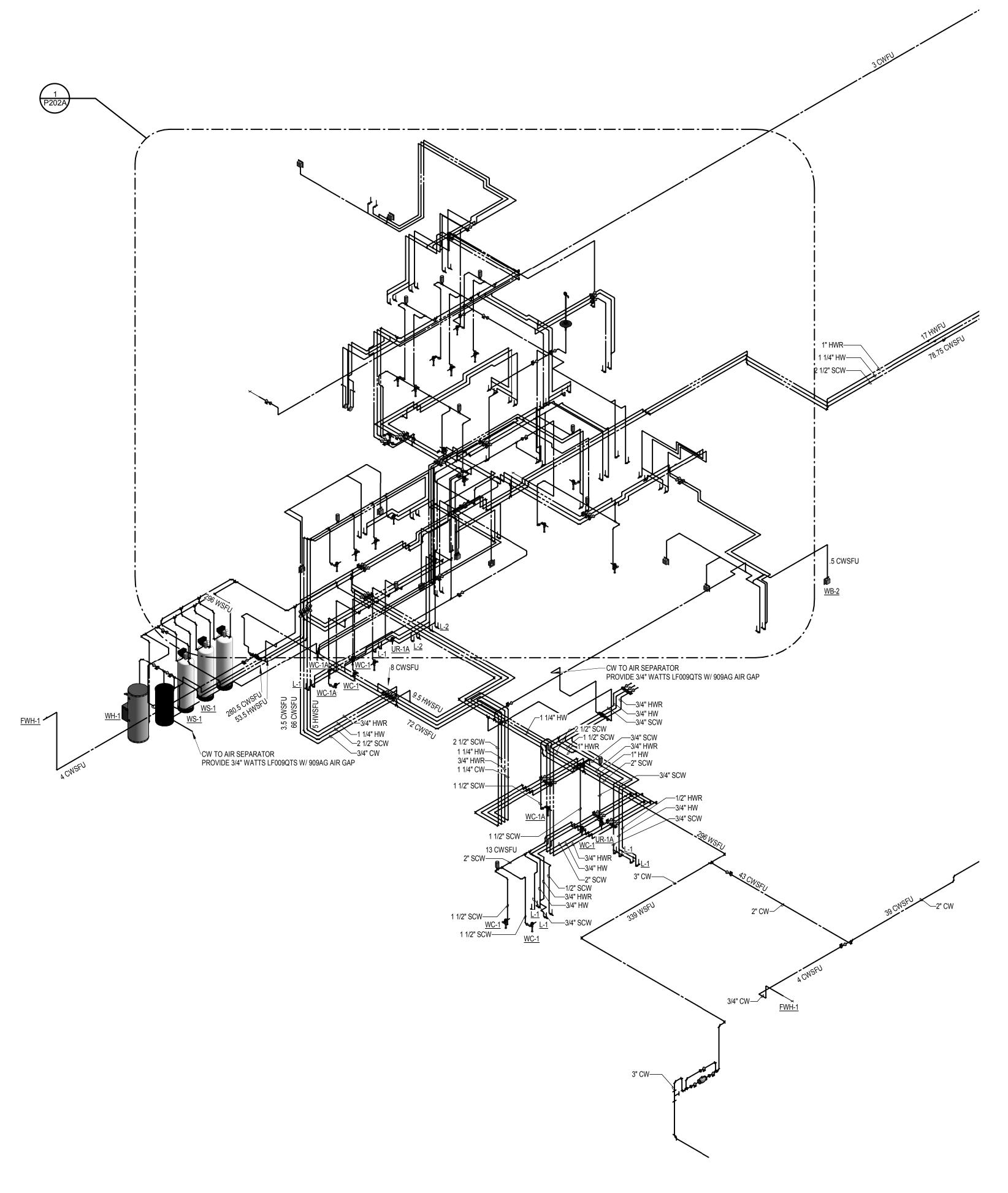
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1 WATER PLUMBING ISOMETRIC

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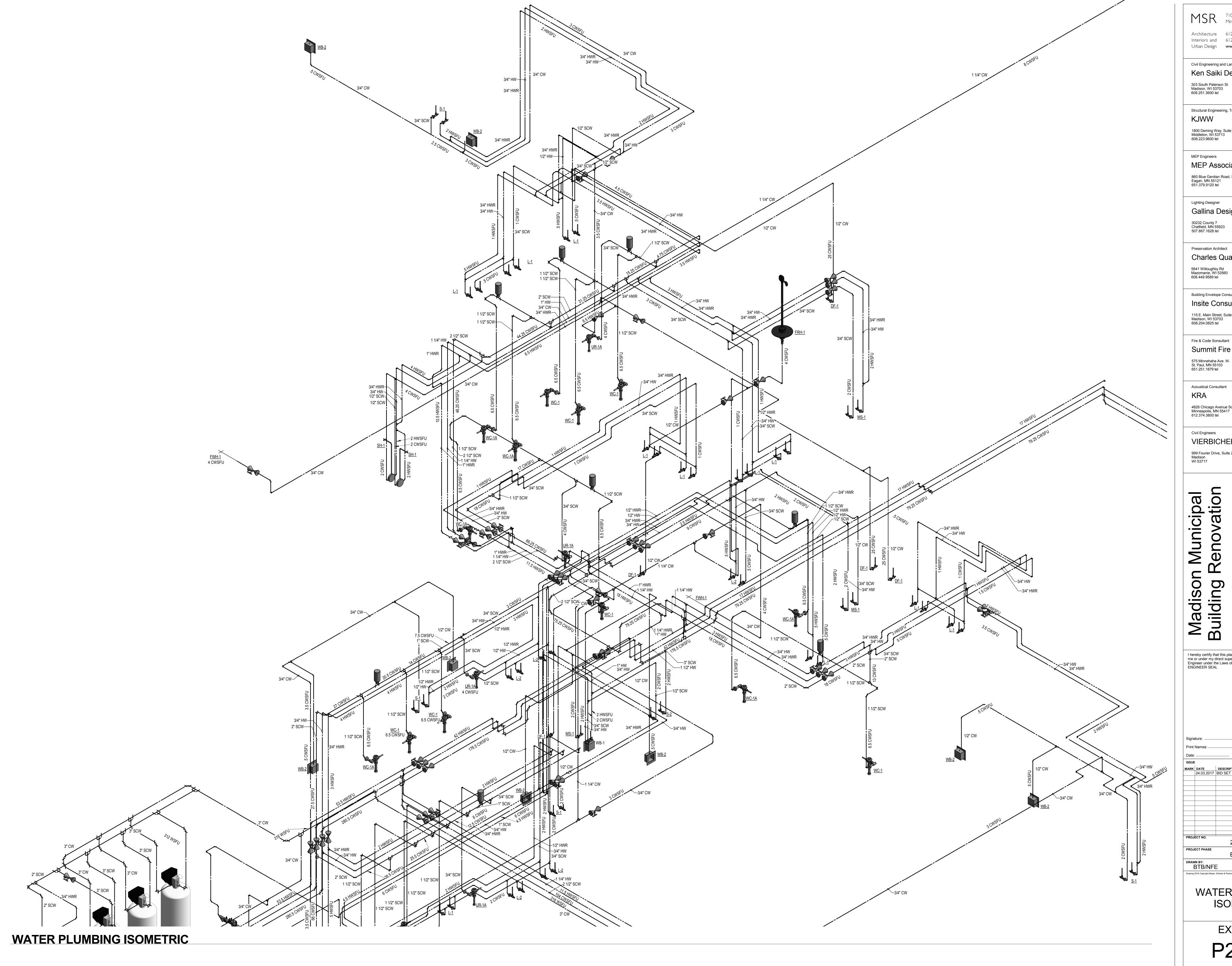
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WATER PLUMBING

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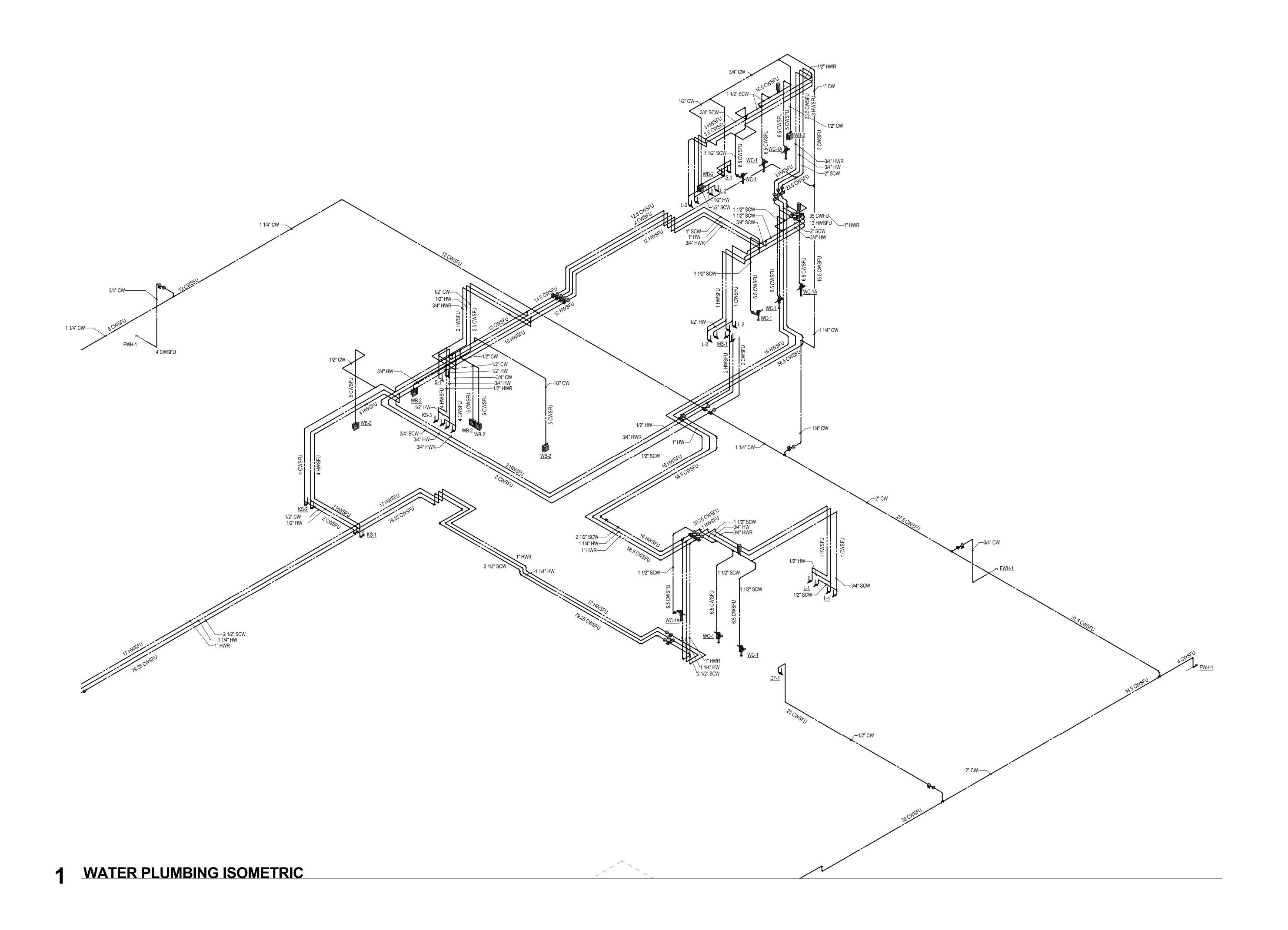
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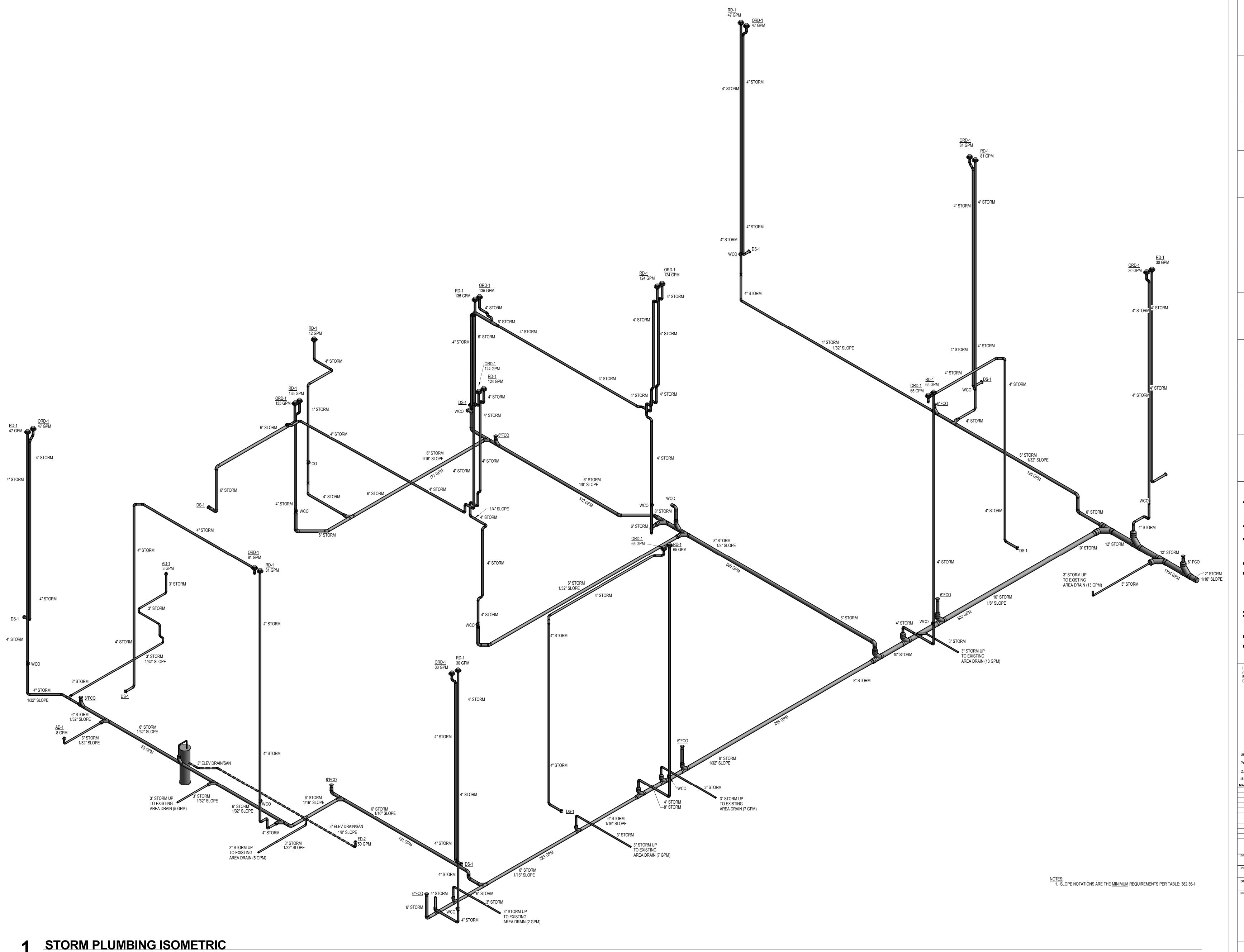
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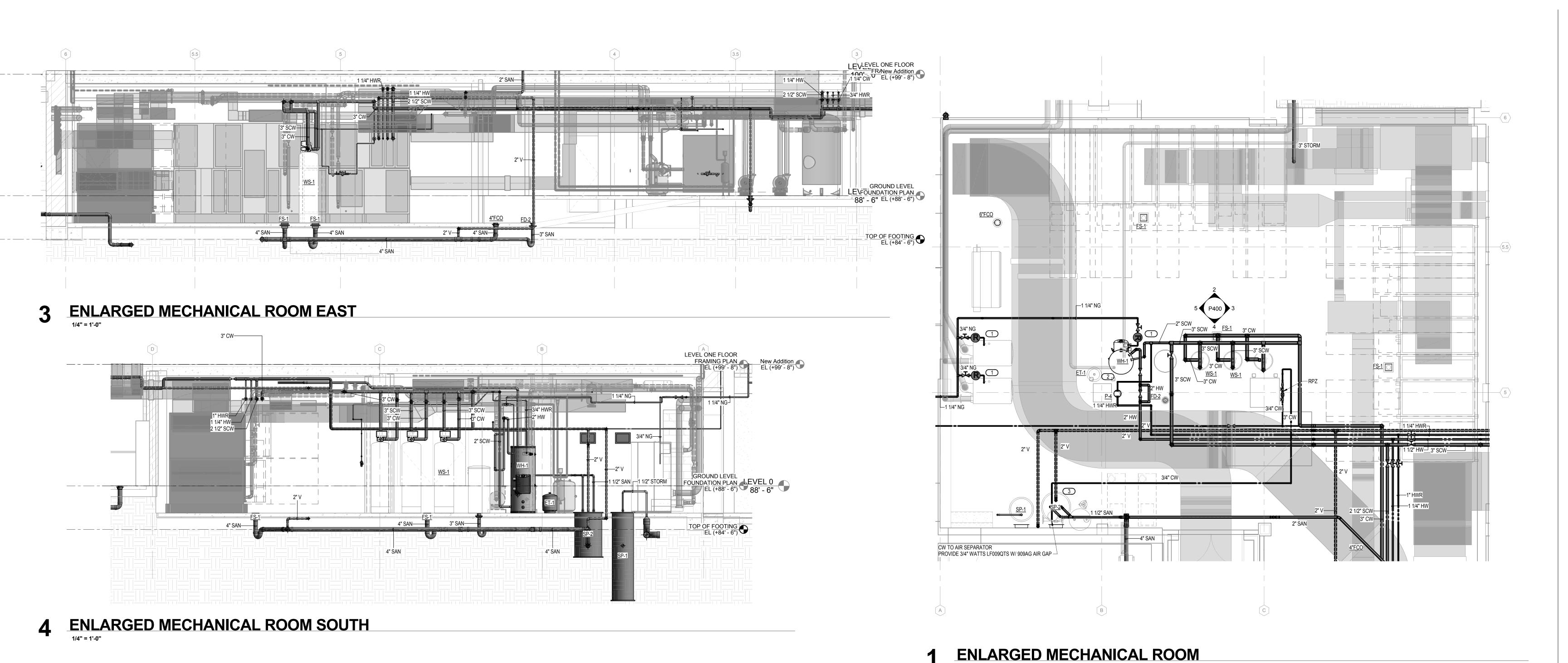
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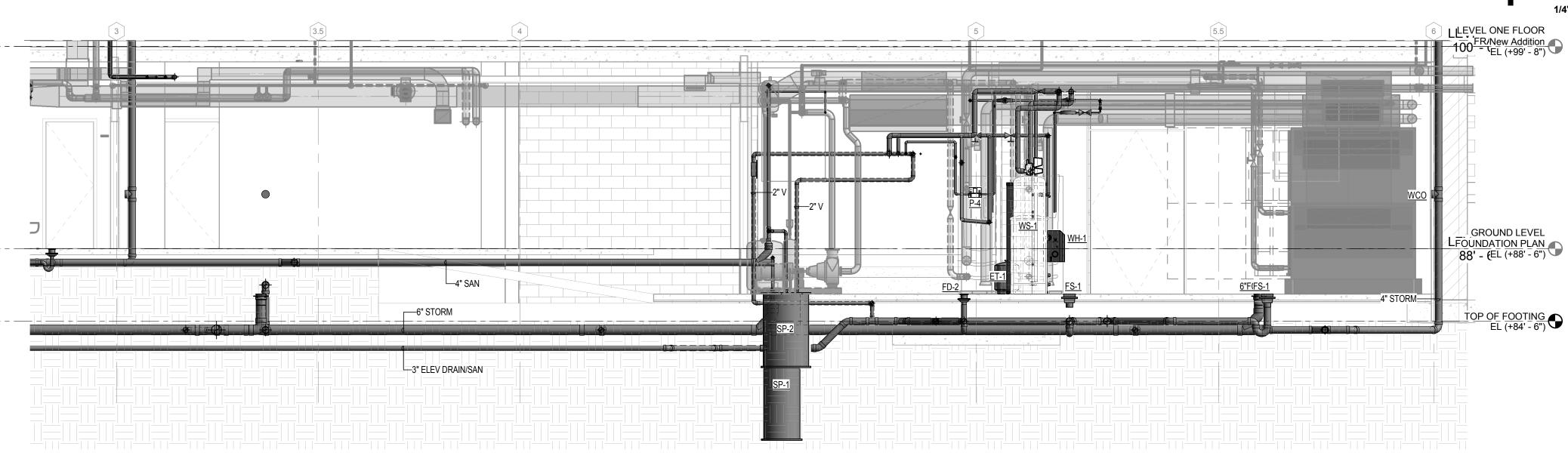
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STORM PLUMBING

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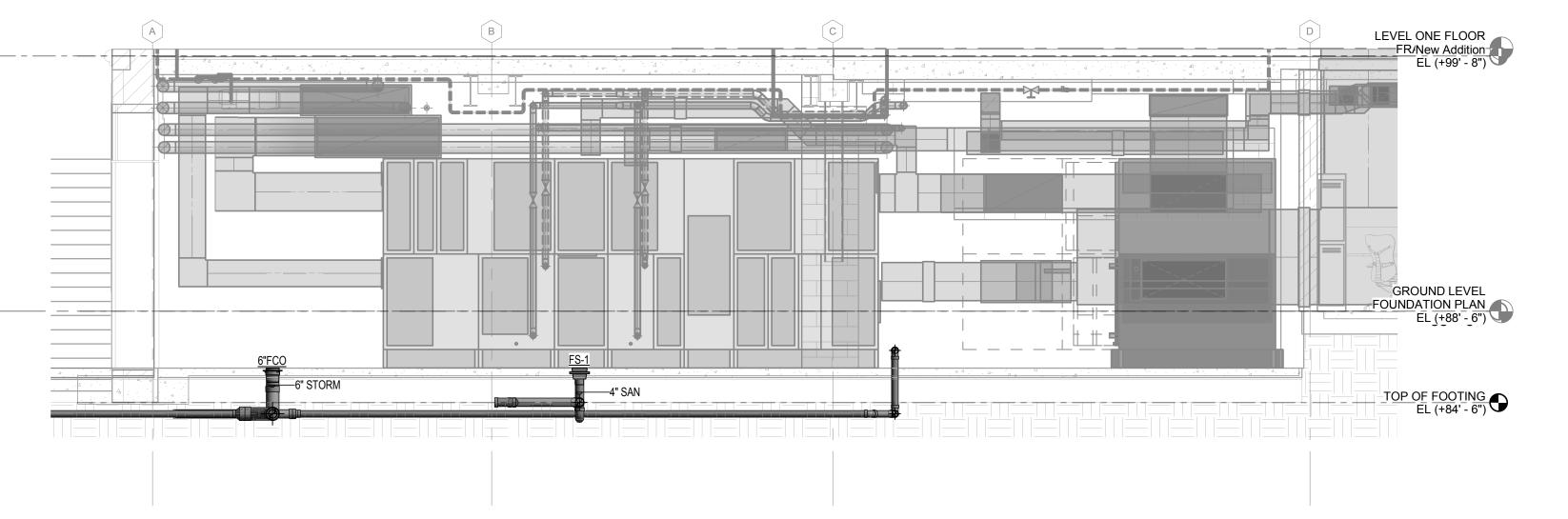




KEYED NOTES

1 REFER TO DETAIL 5/P410; TYPICAL GAS CONNECTION.
2 REFER TO 9/P410 FOR WATER HEATER, SOFTENER, AND PUMP SCHEMATIC.
3 REFER TO 3/M452, 10/P410.

5 ENLARGED MECHANICAL ROOM WEST



2 ENLARGED MECHANICAL ROOM NORTH

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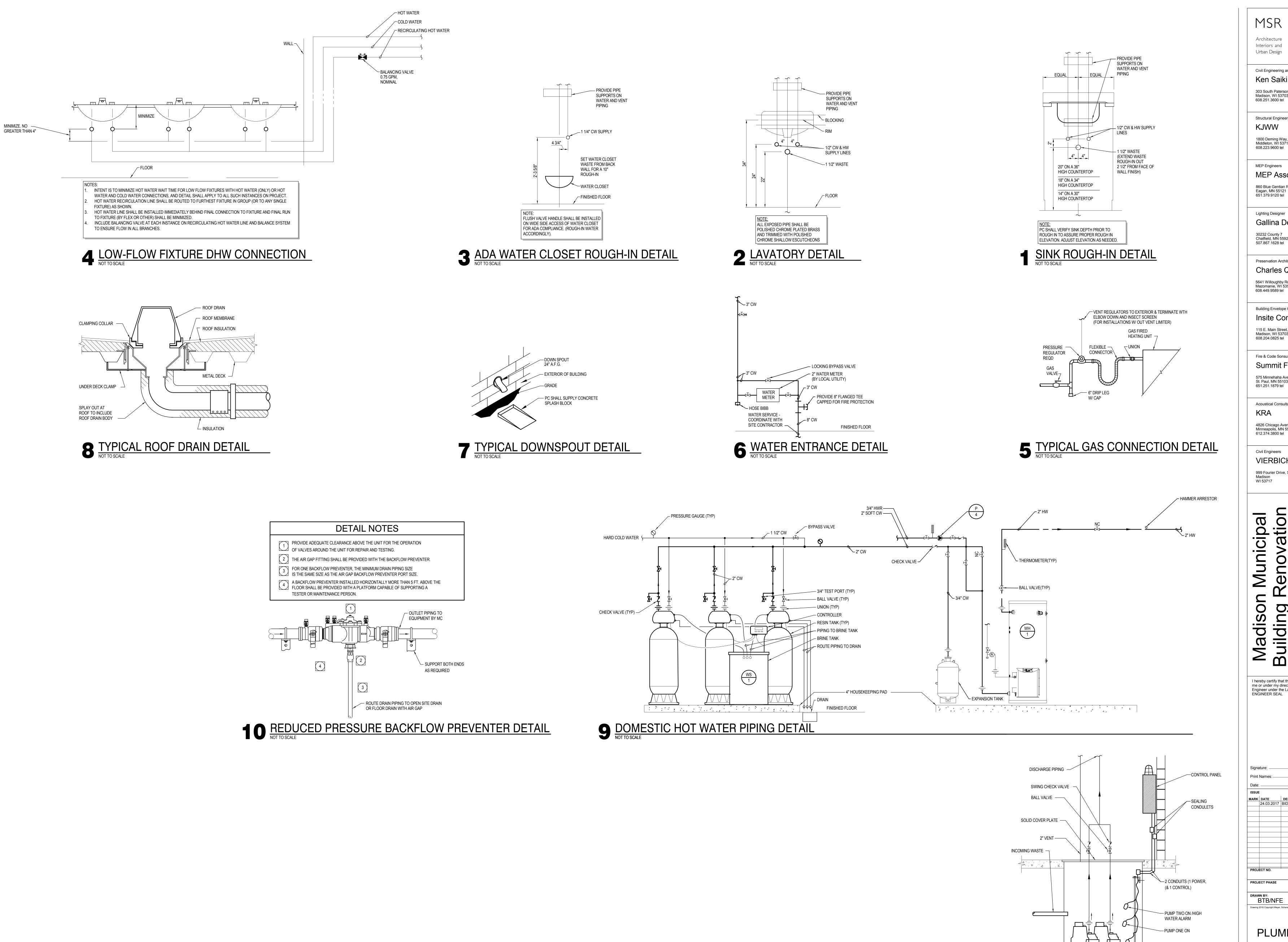
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ENLARGED PLUMBING PLANS

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1 1 DUPLEX SUMP PUMP DETAIL

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PLUMBING DETAILS

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									PLUMBING FIXTURE
						ROUG	H-IN SCH	IEDULE	
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	COLE			ASTE VEN	FITTINGS AND REMARKS
AD-1	AREA DRAIN	ZURN	Z531	AREA WELL	-	-	3	-	
DF-1	DRINKING FOUNTAIN	ELKAY	EZWS-EDFPBM117K	WALL	1/2"	-	2"	1-1/2"	DUAL LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION. INSTALL TO COMPLY WITH ADA REQUIREMENTS.
DS-1	DOWNSPOUT NOZZLE	ZURN	Z199	EXTERIOR WALL	-	-	-	-	ALL PLAIN BRONZE BODY; SIZE TO MATCH OVERFLOW LEADER.
FD-1	FLOOR DRAIN	ZURN	Z415S	FLOOR	-	-	2"	-	SQUARE FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP.
FD-2	FLOOR DRAIN	ZURN	Z415S	FLOOR	-	-	3"	-	SQUARE FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP.
FD-3	FLOOR DRAIN	ZURN	Z415S	FLOOR	-	-	4"	-	SQUARE FLOOR DRAIN WITH POLISHED NICKEL BRONZE TOP.
FRH-1	FREEZELESS ROOF HYDRANT	WOODFORD	RHY2	ROOF	3/4"	-	-	-	ANTI-SIPHON, CHROME FINISH, EXPOSED WITH OPERATING KEY.
FS-1	FLOOR SINK	ZURN	Z1920	FLOOR	-	-	3"	-	ACID RESISTANT COATED FLOOR SINK WITH 1/2 GRATE AND LESS BOTTOM DOME STRAINER.
FWH-1	FREEZELESS WALL HYDRANT	WOODFORD	65	EXTERIOR WALL	3/4"	-	-	-	ANTI-SIPHON, CHROME FINISH, EXPOSED WITH OPERATING KEY.
GI-1	GREASE INTERCEPTOR	SCHIER PRODUCTS	GB-35	BELOW GRADE	-	-	3"	2"	INSTALL BELOW GRADE ON LEVEL 0; VENT ON INLET AND OUTLET SIDES.
HA-1	HAMMER ARRESTOR	JAY R SMITH	5200 SERIES		-	-	-	-	PISTON TYPE HAMMER ARRESTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZING REQUIREMENTS.
KS-1	KITCHEN HAND SINK	REGENCY TABLES AND SINKS	SEHS17	WALL	1/2"	1/2"	2"	1-1/2"	STAINLESS STEEL HAND SINK WALL-MOUNTED WITH BACKSPLASH-MOUNT FAUCET AS CHICAGO FAUCET MODEL W4W-GN1AE35-317AB, 1.5GPM GOOSENECK WITH WRIST-BLADES.
KS-2	KITCHEN PREP SINK	ADVANCED-TABCO	FE-1-1620-18R-X	FLOOR	1/2"	1/2"	2"	1-1/2"	STAINLESS STEEL PREP SINK WITH DRAINBOARD AND BACKSPLASH-MOUNT FAUCET AS CHICAGO FAUCET MODEL 631-L12E35ABCP, 1.5GPM SWING SPOUT WITH WRIST-BLADES.
KS-3	KITCHEN 4-COMP SINK	ADVANCED TABCO	SLB-74C	FLOOR	1/2"	1/2"	2"	1-1/2"	STAINLESS STEEL 4-COMPARTMENT SINK FLOOR-MOUNTED WITH TWO BACKSPLASH-MOUNT FAUCETS AS: CHICAGO FAUCET MODEL 631-L12E35ABCP, 1.5GPM SWING SPOUT WITH WRIST-BLADES AND CHICAGOO FAUCET MODEL 510-GC613AL15ABCP PRE-RINSE SPRAYER WITH INTEGRAL SWING-SPOUT FAUCET.
L-1	UNDERMOUNT LAVATORY WITH SENSOR FAUCET	ZURN	Z5220	COUNTER	1/2"	1/2"	2"	1-1/2"	INCLUDE Z6950-XL-IM-S HARD-WIRED FAUCET WITH 0.5 GPM VANDAL-RESISTANT LAMINAR FLOW OUTLET.
L-2	WALL-HUNG LAVATORY WITH SENSOR FAUCET	AMERICAN STANDARD	9024.001EC	WALL	3/4"	3/4"	2"	1-1/2"	CENTERHOLE ONLY, INCLUDE Z6950-XL-IM-S HARD-WIRED FAUCET WITH 0.5 GPM PRESSURE COMPENSATING LAMINAR FLOW OUTLET.
MS-1	MOP SINK	MUSTEE	63M	FLOOR	3/4"	3/4"	3"	2"	INCLUDE SERVICE FAUCET WITH ATMOSPHERIC BREAKER PER WI CODE / CAN-CSA B64.1.1, HOSE AND HOSE HOLDER, MOP HANGER, BUMPER GUARDS, AND WALL GUARDS.
ORD-1	OVERFLOW ROOF DRAIN	ZURN	Z100	ROOF	-	-	-	-	CAST IRON BODY WITH CAST IRON DOME; INCLUDE 2" DAM.
RD-1	ROOF DRAIN	ZURN	Z100	ROOF	-	-	-	-	CAST IRON BODY WITH CAST IRON DOME.
S-1	STAINLESS STEEL KITCHEN SINK AND GOOSENECK FAUCET	ELKAY	LRAD	COUNTER	1/2"	1/2"	2"	1-1/2"	SINK SIZE PER ARCHITECTURAL; INCLUDE ZURN FAUCET MODEL Z871A4-XL WITH 1.0 GPM PRESSURE-COMPENSATING FEMALE LAMINAR FLOW OUTLET. INCLUDE INSTANT HOT WATER / FILTERED WATER COUNTERTOP SPIGOT, AS INSINKERATOR MODEL F-HC1100, WITH HWT-F1000S WATER HEATER AND FILTER.
S-2	LAUNDRY SINK	MUSTEE	26F	FLOOR	3/4"	3/4"	2"	1-1/2"	FLOOR MOUNT, THERMO RESIN, 2-COMPARTMENT WITH FAUCET FROM MANUFACTURER INCLUDED
SH-1	PRESSURE BALANCED SHOWER VALVE	ZURN	Z7300-SS-MT-HW-H9	WALL	3/4"	3/4"	-	-	INCLUDES SLIDE BAR AND FLEXIBLE HOSE FOR ADA COMPLIANCE. ENCLOSURE AND FLOOR DRAIN BY GENERAL CONTRACTOR.
UR-1A	HARD-WIRED SENSOR FLUSH VALVE URINAL	ZURN	Z5738	WALL	3/4"	-	2"	1-1/2"	INCLUDE ZEMS6003AV-ULF-IS MODEL SENSOR 1/8 GPF FLUSH VALVE.UNIT SHALL BE INSTALLED TO ADA HEIGHT.
WB-1	WASHING MACHINE WALL BOX	IPS CORPORATION	82048	IN WALL	3/4"	3/4"	2"	1-1/2"	GALVANIZED STEEL BOX WITH DRAIN CONNECTION, WATER HAMMER ARRESTORS, AND SHUT OFF VALVES
WB-2	COFFEE/ICE MAKER WALL BOX	IPS CORPORATION	MDWB1AB	IN WALL	1/2"	-	-	-	WHITE POWDER COATED METAL WITH WATER HAMMER ARRESTOR AND SHUT OFF VALVE, LEAD FREE QTR WITH 1/2" SWEAT.
WC-1	MANUAL FLUSH VALVE WATER CLOSET	ZURN	Z5615-BWL	WALL	1-1/2"	-	4"	2"	WITH 1.28 GPF MANUAL VALVE MODEL Z6000PL-HET, ELONGATED OPEN FRONT SEAT.
WC-1A	MANUAL FLUSH VALVE WATER CLOSET	ZURN	Z5615-BWL	WALL	1-1/2"	-	4"	2"	WITH 1.28 GPF MANUAL VALVE MODEL Z6000PL-HET, ELONGATED OPEN FRONT SEAT.UNIT SHALL BE INSTALLED TO ADA HEIGHT.

POT AND PAN SINK LxWxH (18"x18"x12") / 231x.75x2= 25.25 GPM		GI-1	
UNIT SELECTED - SCHIER GB-50 (50 GPM / 249 LBS GREASE CAPACITY)	LxWxH (18"x18"x12") / 231x.75x2=		

SP-1	
36" DIAMETER SUMP 4.5" ON/OFF DIFFERENTIAL RANGE (FACTORY SET) 19.82 GAL IN DIFFERENTIAL RANGE	
50 GPM PUMP 20 SECOND RUN TIME = 16.67 GAL	
19.82 GAL > 16.67 GAL	

SP-2
24" DIAMETER SUMP 12" ON/OFF DIFFERENTIAL RANGE (SET IN FIELD BY PLUMBING CONTRACTOR) 23.5 GAL IN DIFFERENTIAL RANGE
45 GPM PUMP 20 SECOND RUN TIME = 15 GAL
23.5 GAL > 15 GAL

				E	XPANSION TANK						
				PLUMBIN	NG EXPANSION TA	NK					
				SIZE	CAPAC	CITY	SYSTEM				
						MIN TANK	WATER	SYSTEM			
MADIC	LOCATION	0)/0751/	HEIGHT	DIAMETED (IN)	ACCEPT.	VOLUME	VOLUME	CONNECTION SIZE		MODEL	NOTEO
MARK	LOCATION	SYSTEM	(IN)	DIAMETER (IN)	VOLUME (GAL)	(GAL)	(GAL)	(IN)	MANUFACTURER	MODEL	NOTES
⁻ -1	MECHANICAL EQUIPMENT 001	DOMESTIC HOT WATER	19	16	9	14		3/4	BELL AND GOSSETT	PTA-30V	1

				WATER SOFTENER			
MARK	LOCATION	MINERAL TANK CU FT RESIN / QUANTITY	BRINE TANK SALT STORAGE (LB)	FLOW RATE AT PRESSURE LOSS	CAPACITY AT LBS SALT	MANUFACTURER AND MODEL NUMBER	NOTES
WS-1	MECHANICAL EQUIPMENT 001	5 CU FT / x3	510	120 GPM @ 3.5 PSI	160,000 GRAINS AT 75 LBS	CAPITOL MODEL WS-160-2" TRIPLEX PROGRESSIVE FLOW	1

NOTES: 1. TRIPLEX INSTALL; REFER TO DETAIL 9/P410.

				SUMP PUN	IP SCHEDULE							
		SUMP PUMP	SUMP PUMP		STANDARD	E	LECTRICA	\L	CHECK VALVE	CORD		
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	SUMP SIZE	CONNECTIONS	H.P.	VOLTS	PH	SWING TYPE	LENGTH	GPM	NOTES
SP-1	POLY BASIN W/ SEALED STEEL COVER	WEIL	1411-OSS	36" x 60"	2"	1/2	460	3	2"	10'	50 @ 20'	1,2,3,4
SP-2	POLY BASIN W/ SEALED STEEL COVER	WEIL	1408	24" x 36"	1-1/4"	1/3	115	1	1-1/4"	10'	45 @ 15'	1,2,3,4

NOTES:

1. DUPLEX INSTALLATION.
2. AUTOMATIC VERTICAL FLOAT SWITCH.
3. INSTALL 1-1/2" BALL VALVE ABOVE CHECK VALVE.
4. PROVIDE WITH LOCAL CONTROL PANEL FROM MANUFACTURER; NO CONNECTION TO B.A.S. REQUIRED.

			(GAS WATER HEATER						
MARK	LOCATION	TEMPERATURE RISE	RECOVERY GAL/HR	CAPACITY (GAL)	BTU INPUT	AIR INTAKE	FLUE EXHAUST	MANUFACTURER	MODEL	NOTES
WH-1	MECHANICAL EQUIPMENT 001	80 -		119	130,000	3" PVC	3" PVC	НТР	130-119	1,2,3,4

NOTES:
1. PROVIDE WITH 3" PVC VENTING, PER PLAN, INCLUDING 3" STAINLESS STEEL OUTDOOR TERMINATION VENT KITS.
2. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT FROM MANUFACTURER AND PIPE THROUGH KIT TO FLOOR DRAIN.
3. ELECTRICAL CONNECTION (120V/1PH) AND DISCONNECT BY ELECTRICAL.
4. REFER TO DETAIL 9/P410.

			DOMESTIC WATER CIRC	CULATION PU	JMP SCHEDU	JLE				
					MOTOR			FLANGE		
MARK	SERVICE	MANUFACTURER	MODEL	GPM	F.O.H.	ELECTRICAL V/PH/HZ	HP	SIZE (INCHES)	MATERIAL	NOTES

NOTES:

1. STAINLESS STEEL IMPELLER
2. CONTROLLED BY LOCAL THERMOWELL; SEE SPECIFICATIONS.

3. REFER TO DETAIL 9/P410. 4. FLOW RATE BASED ON 0.75 GPM PER BALANCING VALVE. MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282

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Madison Municipal Building Renovation BPW Project #7939 Martin Luther King, Jr. E Madison, WI 53703

BIvd

215 I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the Laws of the State of Wisconsin.

ENGINEER SEAL

Print Names: ___ Date: _____ License No:____
 MARK
 DATE
 DESCRIPTION

 24.03.2017
 BID SET

2014057

BID SET DRAWN BY:
BTB/NFE

> **PLUMBING** SCHEDULES

EXHIBIT J P600