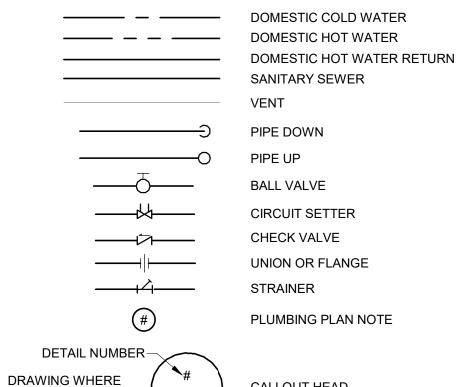
LEGEND

CALLOUT IS

REFERENCED FROM-

DRAWING WHERE CALLOUT IS SHOWN-



CALLOUT HEAD

ATER FER FER RETURN	ABV AFF ASJ CLG CLG.CAB CO CS CV	ABOVE ABOVE FINISHED FLOOR ALL SERVICE JACKET CEILING CEILING CABINET (FAN TYP CLEANOUT CIRCUIT SETTER CHECK VALVE
	CW DEG. F DN EWC EWH FD FR	DOMESTIC COLD WATER DEGREES FAHRENHEIT DOWN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FLOOR DRAIN FROM
	FSK GA GND GPH GPM HB HP	FOIL SCRIM KRAFT GAUGE GROUND GALLONS PER HOUR GALLONS PER MINUTE HOSE BIBB HORSEPOWER
TE	HW HWR LPG LVG MAX MFR MIN NC NO NTS OPG	DOMESTIC HOT WATER DOMESTIC HOT WATER RE LIQUIFIED PETROLEUM GAS LEAVING MAXIMUM MANUFACTURER MINIMUM NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE OPENING
	PDI SAN VTR W/ WH WHA WRT	PLUMBING & DRAINAGE INS SANITARY SEWER VENT THROUGH ROOF WITH WALL HYDRANT WATER HAMMER ARRESTO WROUGHT

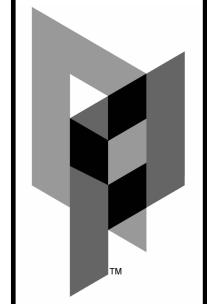
ABBREVIATIONS

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RETURN
INSTITUTE
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WELL WATER

GENERAL NOTES:

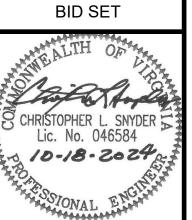
- A. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE UNIFORM STATEWIDE BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS AND IN ACCORDANCE WITH MANDATES OF THE LOCAL BUILDING OFFICALS.
- THE GENERAL ARRANGEMENT AND LOCATIONS OF PIPING, FIXTURES, ETC. ARE INDICATED BY THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE THEREWITH, WITH THE EXCEPTION OF SUCH CHANGES AS MAY BE REQUIRED ON ACCOUNT OF OTHER TRADES. CONTRACTOR SHALL COORDINATE WORK WITH INSTALLATION OF OTHER SUBCONTRACTORS.
- C. PLUMBING WORK SHALL BE COORDINATED WITH THE CONTRACTOR AS TO SCHEDULING, DIMENSIONING AND LOCATION OF EQUIPMENT.
- MAJOR ITEMS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INCIDENTAL ITEMS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL
- SUBSTITUTION FOR SPECIFIED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
- ALL REQUIRED WALL OR FLOOR OPENINGS SHALL BE COORDINATED WITH THE CONTRACTOR.
- G. ALL PIPING SHALL BE ABOVE CEILING UNLESS INDICATED OTHERWISE.
- ALL EQUIPMENT SHALL BE WIPED CLEAN, REMOVING ALL TRACES OF OIL, DIRT, OR
- PROVIDE SUPPORTS TO RIGIDLY ATTACH ALL EQUIPMENT, APPURTENANCES AND PIPE AS REQUIRED FOR SUPPORT. PRIOR TO INSTALLATION OF HANGERS AND INSERTS, THE CONTRACTOR SHALL COORDINATE LOCATIONS AND EQUIPMENT TO MINIMIZE CONFLICTS WITH OTHER BUILDING SYSTEMS.
- CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED TO BE FURNISHED BY OTHERS.
- ALL PIPE OF THE SAME SIZE SHALL BE OF THE SAME MATERIAL.
- SLOPE ALL DRAIN LINES 1/4 INCH PER FOOT MINIMUM FOR SIZES LESS THAN 4 INCHES, SLOPE 1/8 INCH PER FOOT SIZES 4 INCHES AND LARGER UNLESS INDICATED OTHERWISE BY INVERTS ON DWGS.
- M. SOIL, WASTE AND VENT PIPING LOCATED BELOW GRADE SHALL BE MINIMUM 2 INCHES.
- VENTS SHALL EXTEND 12 INCHES ABOVE ROOF. ROOF FLASHING SHALL BE COORDINATED BY THE CONTRACTOR.
- DOMESTIC HOT AND COLD WATER PIPING SHALL BE 1/2 INCH SIZE UNLESS INDICATED
- BALL VALVES MAY BE USED IN LIEU OF GATE VALVES 2 INCHES OR SMALLER.
- Q. ALL EXPOSED FIXTURE SUPPLIES AND WASTE LINES SHALL BE CHROME PLATED.
- INSULATE ALL STORM WATER PIPING IN BUILDING INCLUDING BOTTOM SIDE OF ROOF
 - COORDINATE LOCATION OF FLOOR DRAINS AND FLOOR CLEANOUTS WITH ARCHITECTURAL PLANS.



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LEGEND, ABBREVIATIONS GENERAL NOTES

PLUMBING FIXTURE SCHEDULE										
DESIGNATION	FIXTURE	MANUFACTURER	SIZE	SUPPLY FITTINGS	TRAP	CARRIER	REMARKS & ACCESSORIES	CONNECTION SIZES		
P-1	WATER CLOSET	& MODEL AMERICAN STANDARD 3641.001	-	AND STOPS -	INTEGRAL	FLOOR MOUNTED	FLUSH VALVE: SLOAN MODEL G2 8111-1.6 SEAT: AMERICAN STANDARD 5901.100	WASTE 4"	HOT -	COLD 1"
P-2	LAVATORY	AMERICAN STANDARD 0355.012	20 1/2" X 18 1/4"	3/8" ANGLE STOPS	1 1/2" 17 GA P-TRAP	WALL MOUNTED	FAUCET: SLOAN OPTIMA MODEL ETF600-LT-BA CP ELECTRONIC FAUCET	1 1/2"	1/2"	1/2"
P-3	LAVATORY	AMERICAN STANDARD 0491.019	19-1/8" ROUND	3/8" ANGLE STOPS	1 1/2" 17 GA P-TRAP	COUNTER MOUNTED	FAUCET: SLOAN OPTIMA MODEL ETF600-LT-BA CP ELECTRONIC FAUCET	1 1/2"	1/2"	1/2"
P-4	URINAL	AMERICAN STANDARD 6590.001	ADA	-	INTEGRAL	WALL MOUNTED	FLUSH VALVE: SLOAN MODEL G2 8186-0.5	2"	-	3/4"
P-5	SINK	ELKAY/DAYTON D11719	17" X 19"	3/8" ANGLE STOPS	1 1/2" 17 GA P-TRAP	COUNTER MOUNTED	FAUCET: ZURN Z812B4-XL GOOSENECK WATER SENSE WITH WRIST BLADE HANDLES DRAINS AND STRAINERS: ELKAY LK35B	1 1/2"	1/2"	1/2"
P-6	JANITOR SINK	FIAT TSBC1610	24" X 24"	-	3" P-TRAP	FLOOR MOUNTED	WITH FIAT 830AA WITH MODEL 832AA HOSE & HOSE BRACKET, STAINLESS STEEL MOP HANGER & MODEL MSG2424 WALL GUARDS. FAUCET: T&S BRASS B-0665-BSTR WITH 1/4 TURN CERAMIC CARTRIDGES WITH CHECK VALVES AND BUILT-IN SERVICE STOPS	3"	1/2"	1/2"
P-7	ELECTRIC WATER COOLER	MURDOCK A172408S-UG-VR-D1-BF2S	BI-LEVEL	3/8" ANGLE STOPS	1 1/2" 17 GA P-TRAP	WALL MOUNTED	HANDS-FREE HIGH/LOW WATER COOLER WITH BOTTLE FILLER. PROVIDE W/STAINLESS STEEL FINISH, BOTTLE FILLER W/SENSOR OPERATION AND CONCEALED SUPPORT CARRIER OPTION.	1 1/2"	-	1/2"
P-8	PENAL FIXTURES	ACORN 1449FA-2	ADA	-	INTEGRAL	FLOOR/WALL MOUNTED	FLUSH VALVE: INTEGRAL, HYDRAULIC PROVIDE LEFT/RIGHT LAV CONFIGURATION PER PLANS	4"	1"	1"
P-9	SHOWER	MODEL S4839A ONE-PIECE ROLL-IN SHOWER WITH REIFORCING BOTTOM PLATE,SLIP RESISTANT FINISH, SEAT, GRAB BARS AND CENTERED DRAIN	48" X 38 3/4" X 79 1/4"	1/4 TURN STOPS IN SHOWER VALVE ASSEMBLY	3" P-TRAP	FLOOR MOUNTED	CHROME-PLATED SINGLE HANDLE SHOWER VALVE, HAND-HELD WATERSENSE SLIDE BAR MOUNTED SHOWER WITH ADA ADJUSTABLE SHOWER MOUNT ADJUSTMENT AND ADJUSTABLE HOSE. INSTALL BRASS WASTE WITH CHROME-PLATED ROUND DRAIN GRATING.	3"	1/2"	1/2"
P-10	JANITOR SINK	FIAT TSB3000	24" X 24"	-	3" P-TRAP	FLOOR MOUNTED	WITH FIAT 830AA WITH MODEL 832AA HOSE & HOSE BRACKET, STAINLESS STEEL MOP HANGER & MODEL MSG2424 WALL GUARDS. FAUCET: T&S BRASS B-0665-BSTR WITH 1/4 TURN CERAMIC CARTRIDGES WITH CHECK VALVES AND BUILT-IN SERVICE STOPS	3"	1/2"	1/2"
P-11	LAVATORY	BRADLEY LVQD2 VERGE WITH TWO WASHBARS INCLUDING TOUCH- FREE SOAP, WATER AND HAND DRYER	ADA 60" X 21"	1/2" ANGLE STOPS	1 1/2" P-TRAP	WALL MOUNTED	SINGLE TROUGH LAVATORY BASIN WITH CUSTOM SIDE COUNTERS WITH TRASH RECEPTACLE HOLES PER ARCHITECTURAL PLANS. INSTALL 120V/1PH/60 HZ, 20 AMP GFI PROTECTED OUTLET AS REQUIRED	1 1/2"	1/2"	1/2"
P-12	LAVATORY	BRADLEY LVQD3 VERGE WITH THREE WASHBARS INCLUDING TOUCH- FREE SOAP, WATER AND HAND DRYER	ADA 90" X 21"	1/2" ANGLE STOPS	1 1/2" P-TRAP	WALL MOUNTED	SINGLE TROUGH LAVATORY BASIN WITH CUSTOM SIDE COUNTERS WITH TRASH RECEPTACLE HOLES PER ARCHITECTURAL PLANS. INSTALL 120V/1PH/60 HZ, 20 AMP GFI PROTECTED OUTLET AS REQUIRED	1 1/2"	1/2"	1/2"

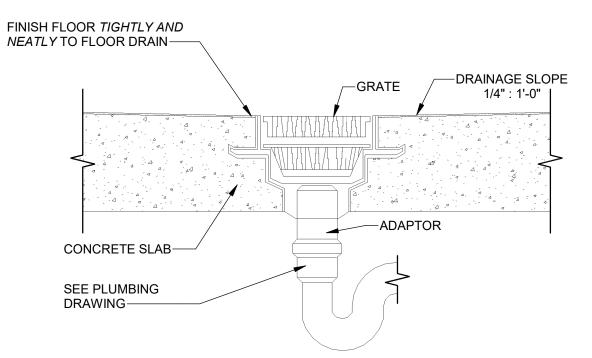
HWR SIGNATURE & PRESSURE RELIEF VALVE (TYP)	COLD WATER NOTE: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT	CLEANOUT WITH COVER FOR DUTY REQUIRED————————————————————————————————————
THERMOMETER— THERMOMETER— PRESSURE GAUGE	PROVIDE ACCESS DOOR WHERE TRAP PRIMER IS CONCEALED TRAP PRIMER VALVE - PPP INC. MODEL PR-500 RI RI	ONG SWEEP 1/4 BEND OR OMBINATION "Y" & 1/8 BEND. (USE EDUCING TYPE WHERE EQUIRED)
TMV-1 1 1/2" REDUCER (TYP) 1-1/2" CW SUPPLY 1-1/2"		BUILDING DRAIN OR SEWER MATERIAL AND SIZE AS SPECIFIED DIRECTION OF FLOW
SEE SHEET P2.0 FOR ROUTING	WASTE STACK—TRAP SHALL BE ONE SIZE LARGER THAN CD	CLEANOUT DETAIL NOT TO SCALE

MARK DESCRIPTION DOMESTIC WATER HEATER - BRADFORD-WHITE EF-60T-150E-3N WITH 60 GALLON TANK, DWH-1 150 MBH INPUT, 167 GPH RECOVERY AT 100 DEG F RISE, NATURAL GAS-FIRED, DIRECT VENT CLOSED COMBUSTION. THERMAL EXPANSION TANK - AMTROL MODEL ST-12-C WITH 3.2 GALLONS ACCEPTANCE ET-1 FCO FLOOR CLEANOUT - JOSAM 55000 SERIES. LINE SIZED. 3" FLOOR DRAIN - JOSAM 30000-S SERIES CAST IRON FLOOR DRAIN, STAINLESS STEEL FD-1 TOP WITH 1/2" TRAP PRIMER CONNECTION. 6" FLOOR DRAIN - JOSAM 30000-S SERIES CAST IRON FLOOR DRAIN, STAINLESS STEEL FD-2 TOP WITH 1/2" TRAP PRIMER CONNECTION. 8" FLOOR DRAIN - JOSAM 30000-S SERIES CAST IRON FLOOR DRAIN, STAINLESS STEEL FD-3 TOP WITH 1/2" TRAP PRIMER CONNECTION. HOSE BIBB - ZURN SC8-4, 3/4" FEMALE NPT REGULAR PATTERN WITH VACUUM BREAKER HB ICE MAKER CONNECTION BOX - OATEY MODEL I2K LOW LEAD WITH PLASTIC FACEPLATE IMB AND QUARTER-TURN BRASS BALL VALVE. OIL SEPARATOR - JOSAM 60505B, DRAW-OFF, GRAVITY TYPE. EPOXY COATED FABRICATED STEEL OIL SEPARATOR, THREADED CONNECTIONS, INTERNAL TRAP, os SEDIMENT BUCKET, TWO-VENT CONNECTIONS ON EACH SIDE, GASKETED NON-SKID COVER AND FLOW-CONTROL FITTING. RATED FOR 20 GPM. RECIRCULATION PUMP - LEAD-FREE BRONZE BODIED SYSTEM LUBRICATED CIRCULATOR. RCP-1 BELL AND GOSSET MODEL NBF-10S/LW, 12.5 FT. HEAD, 2.0 GPM, 52 WATTS, SINGLE-PHASE, 115V, 2800 RPM RD-1 & OD-1 4" ROOF DRAIN AND OVERFLOW DRAIN COMBINATION - JR SMITH MFG. CO. 1851. 6" ROOF DRAIN AND OVERFLOW DRAIN COMBINATION - JR SMITH MFG. CO. 1851. RD-2 & OD-2 RH-1 FREEZELESS ROOF HYDRANT - WOODFORD MODEL RHY1-MS. 3" REDUCED PRESSURE ZONE ASSEMBLY - WATTS SERIES LF-909. PROVIDE WITH AIR GAP, UL/FM OUTSIDE STEM & YOKE RESILIENT SEATED GATE VALVES, AND FDA EPOXY HVAC HYDRONIC SYSTEM MAKE-UP LINE. 3/4" REDUCED PRESSURE ZONE ASSEMBLY - WATTS MODEL LF909. PROVIDE WITH AIR GAP, QUARTER-TURN BALL VALVES, AND STRAINER. THERMOSTATIC MXING VALVE - LEONARD MODEL TM-1520B-LF-DT WITH 1-1/4" INLETS AND TMV-1 TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS PR-500 WITH 1/2" COPPER LINE. TPV PROVIDE DISTRIBUTION UNIT TO SERVE TWO FLOOR DRAINS WHERE NECESSARY. WCO WALL CLEANOUT - JOSAM 58600-CO SERIES. WH FREEZELESS WALL HYDRANT - WOODFORD MODEL B65 SHOCK ABSORBER, JOSAM SERIES 75000-S. 75000-S 75001-S MODEL NUMBER 75003-S 75004-S WHA-"X" B 12-32 FIXTURE UNITS 61-113 1-11 33-60

MISCELLANEOUS EQUIPMENT SCHEDULE

DOMESTIC WATER HEATER DETAIL

INDIRECT DRAIN WITH TRAP PRIMER DETAIL



FLOOR DRAIN DETAIL

PIPE W/ 3/4" CLOSED CELL FLOOR DRAIN TRAP PRIMER DETAIL

TRAP PRIMER VALVE -

PPP INC. MODEL PR-500

-FINISHED FLOOR

FLOOR DRAIN

NOTE: FOLLOW

MANUFACTURER'S INSTALLATION

INSTRUCTIONS FOR EXACT

LOCATION OF TRAP PRIMER

COLD WATER

1/2"—

PROVIDE ACCESS DOOR WHERE TRAP

ABOVE GROUND

INSULATION PER

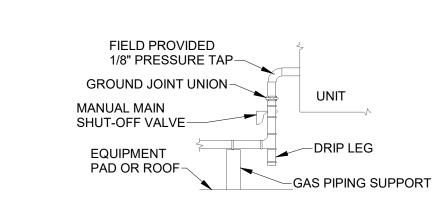
SPECIFICATIONS-

UNDERGROUND

INSULATE

PRIMER IS

CONCEALED-



GAS CONNECTION DETAIL

NOT TO SCALE

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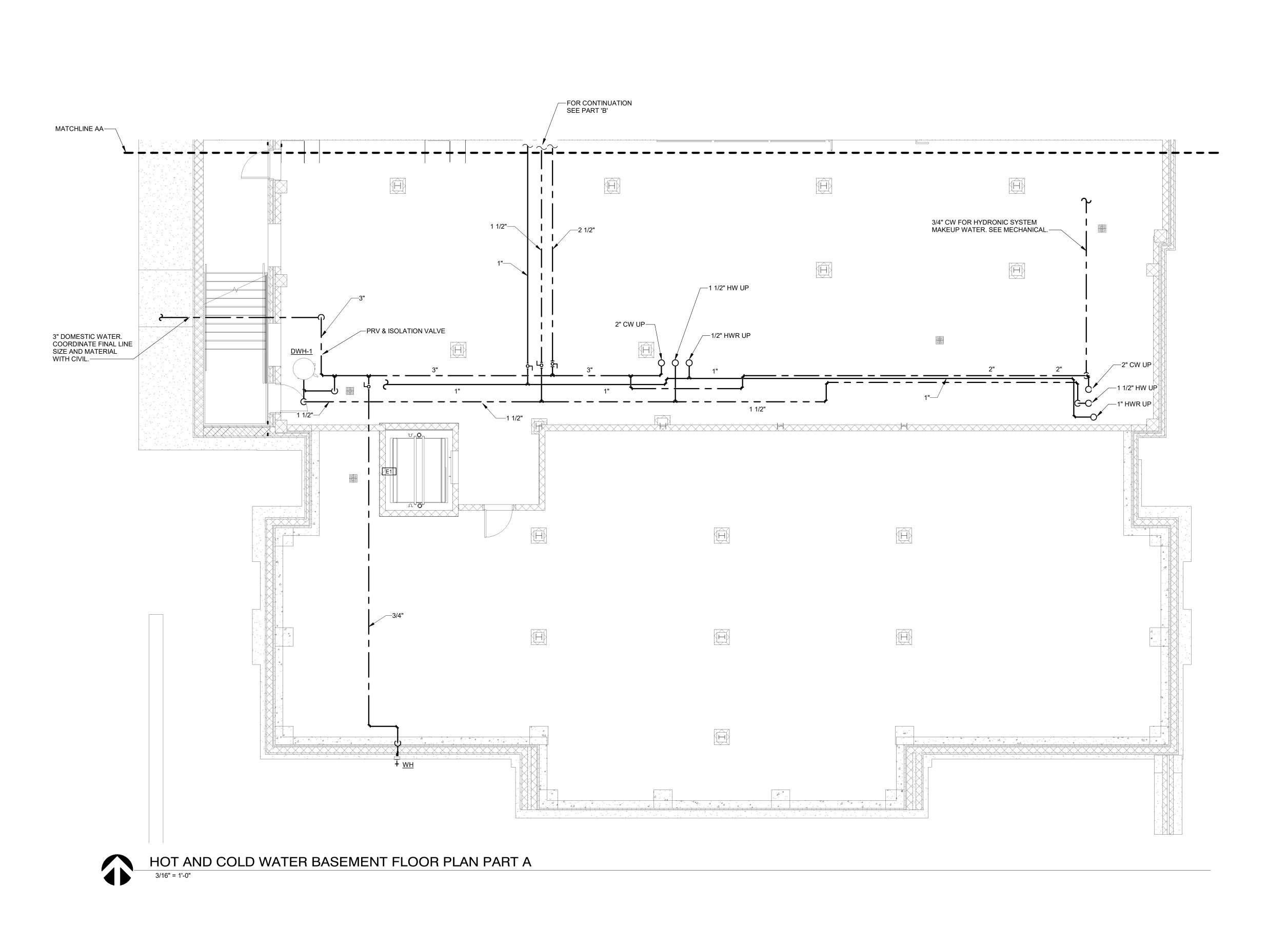
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SCHEDULES AND DETAILS





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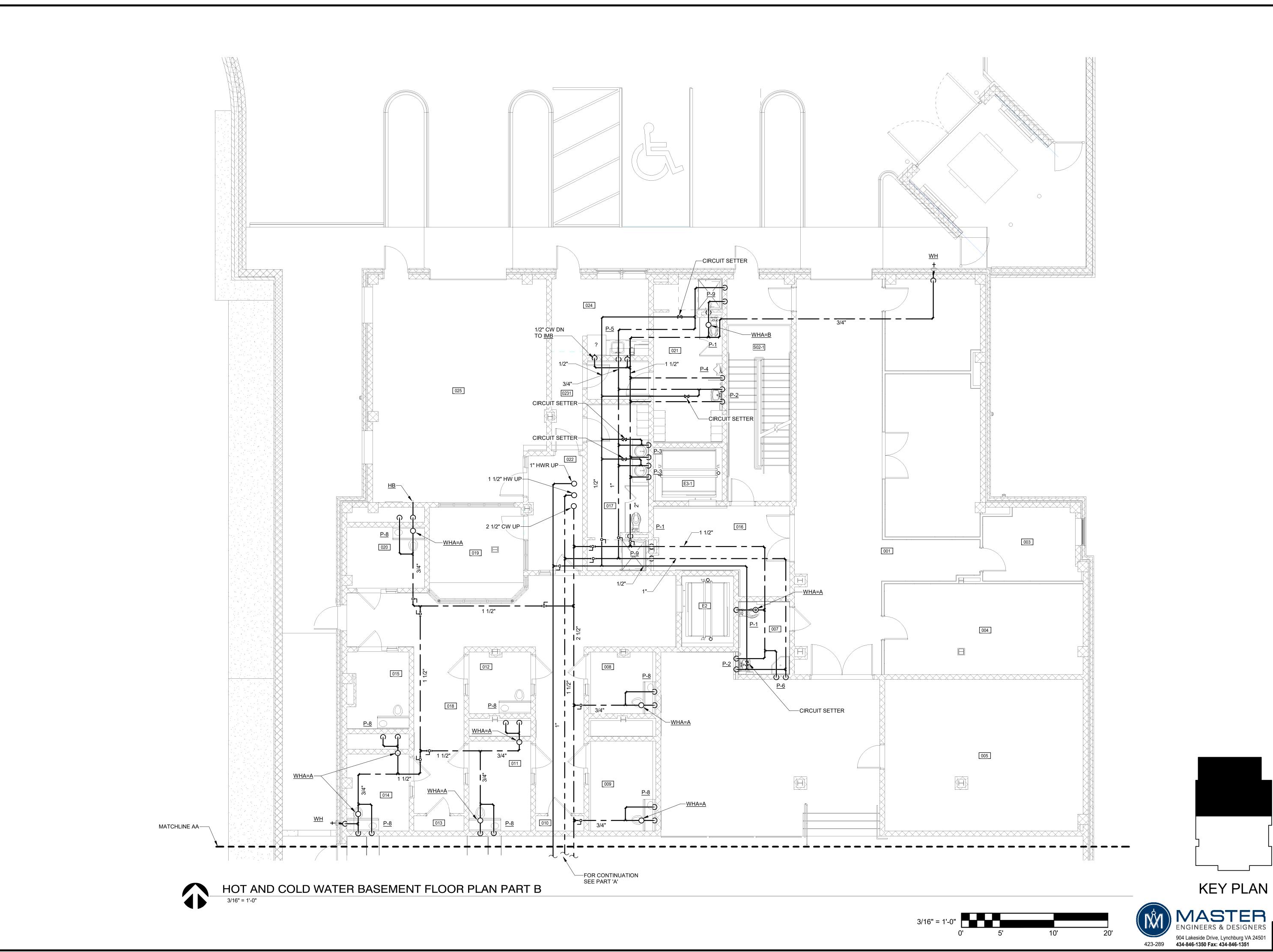
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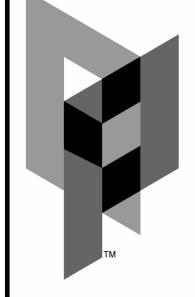
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HOT AND COLD WATER
BASEMENT
FLOOR PLAN PART A





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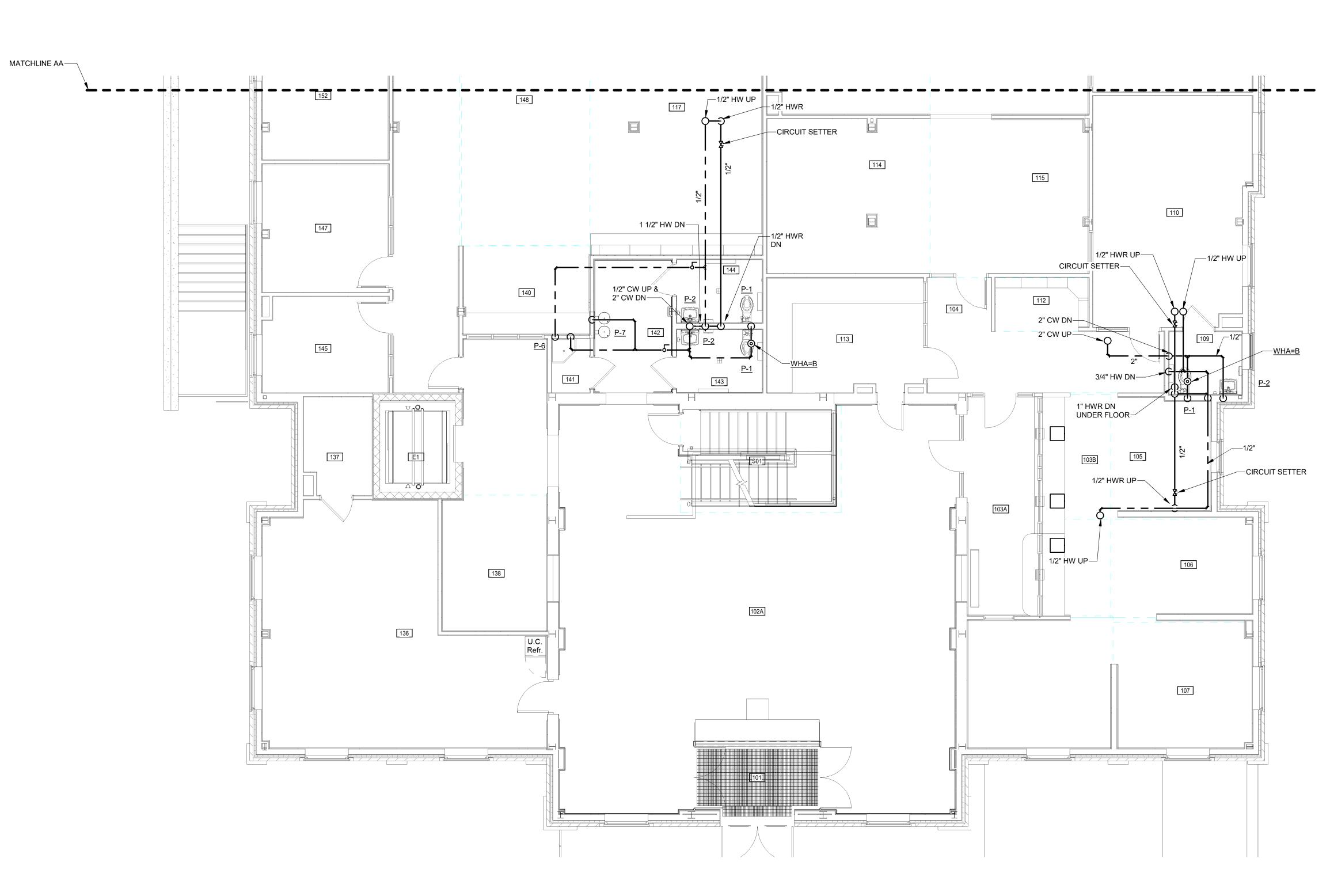
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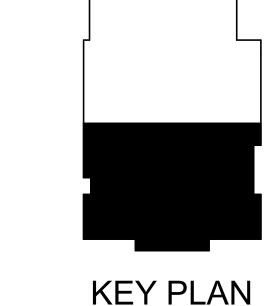
HOT AND COLD WATER **BASEMENT** FLOOR PLAN PART B

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HOT AND COLD WATER FIRST FLOOR PLAN PART A



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KEY PLAN

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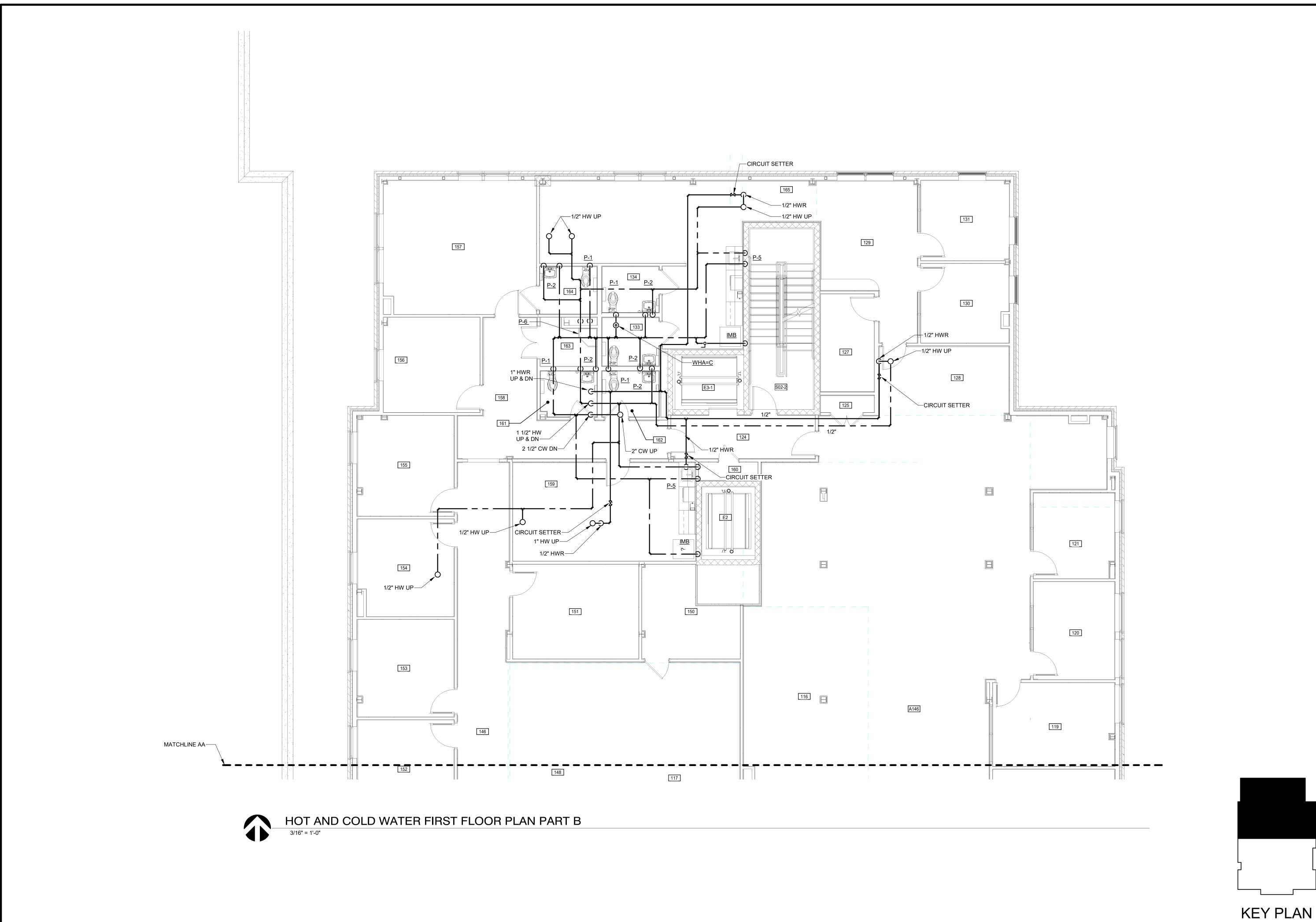
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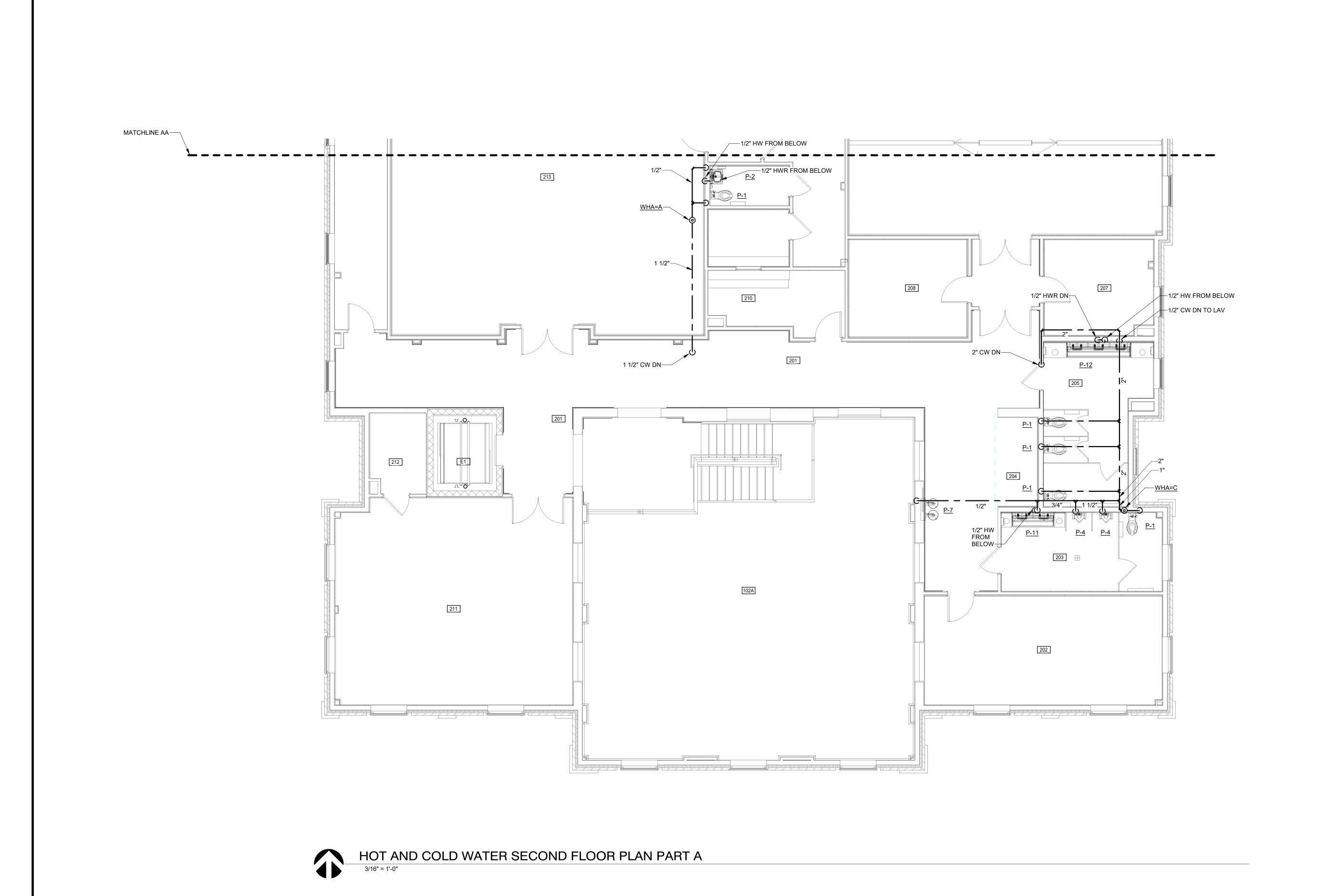
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HOT AND COLD WATER FIRST FLOOR PLAN PART B







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COLD WATER

FLOOR PLAN

PART A

SECOND

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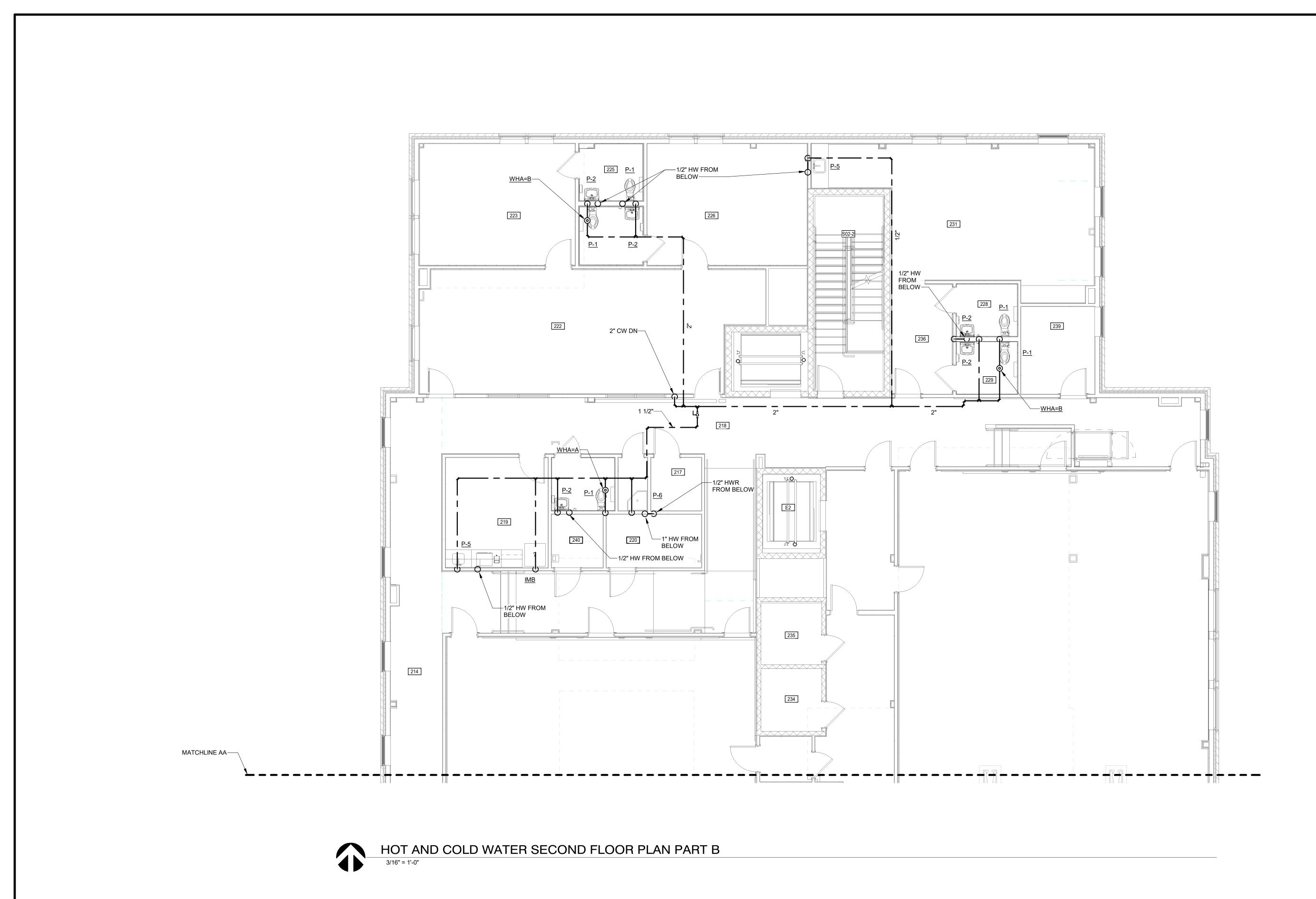
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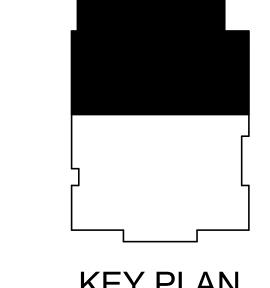
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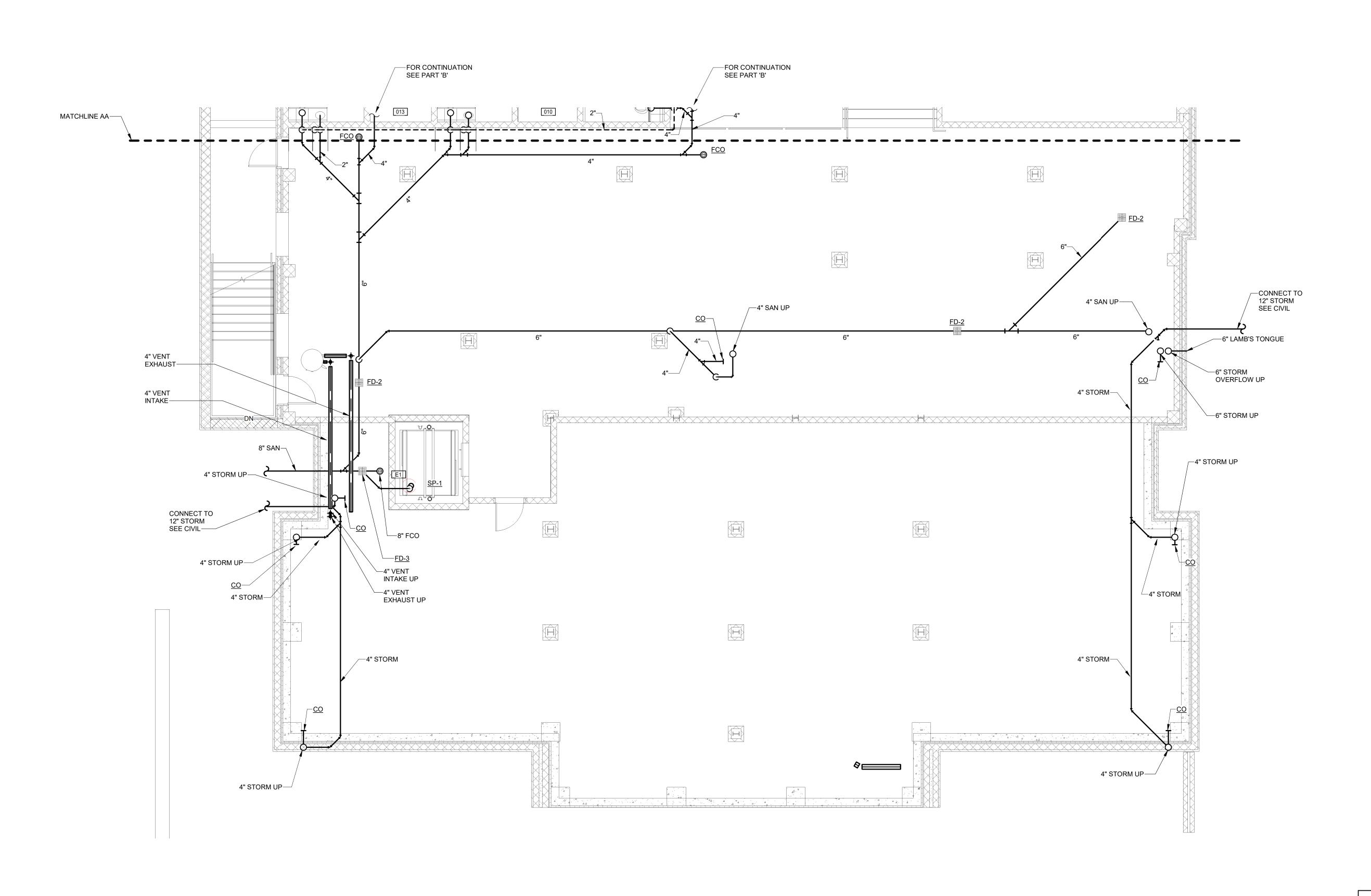
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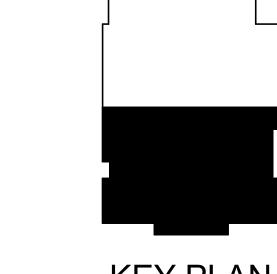
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HOT AND COLD WATER SECOND FLOOR PLAN PART B









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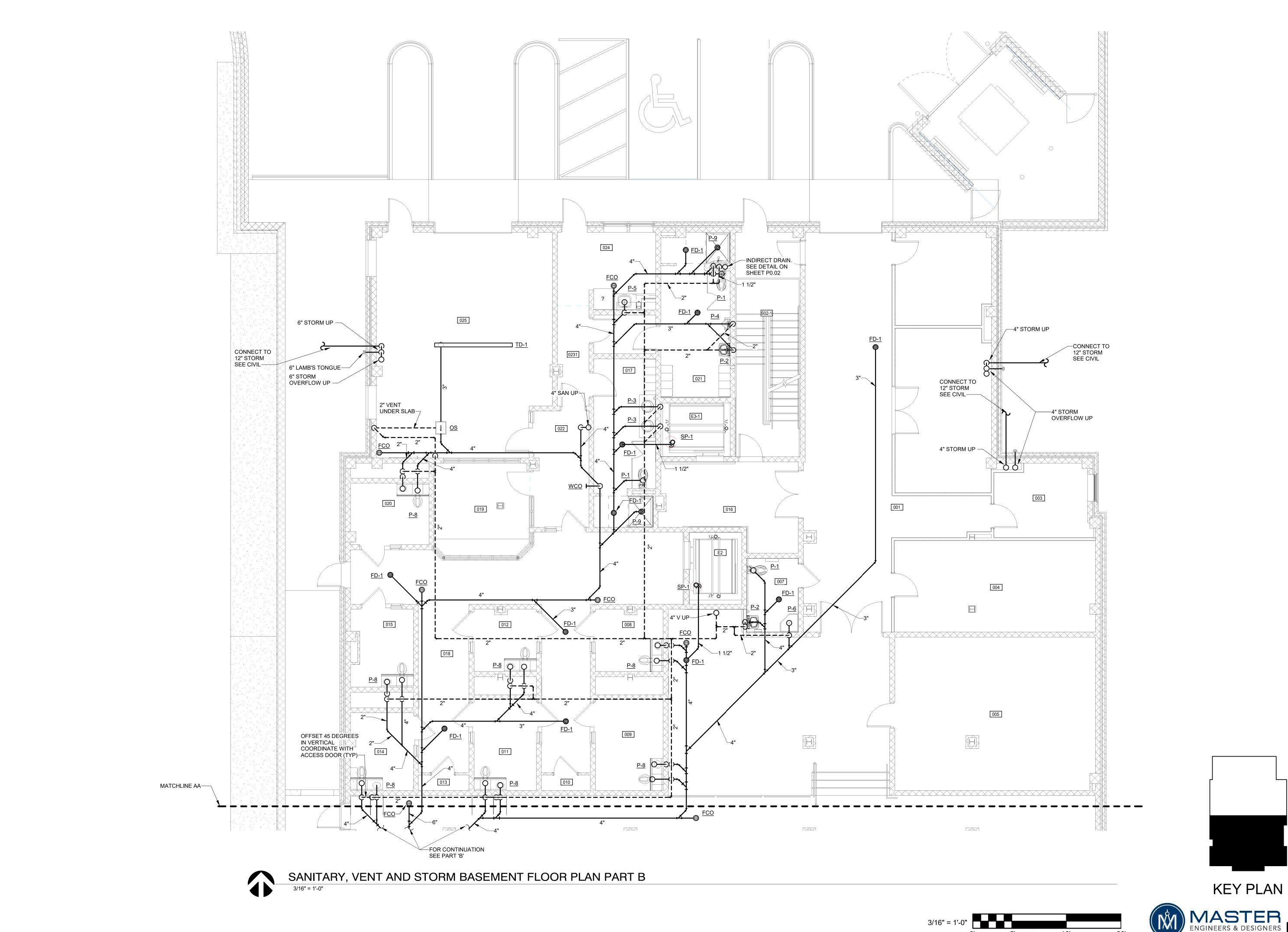
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SANITARY, VENT AND STORM BASEMENT FLOOR PLAN



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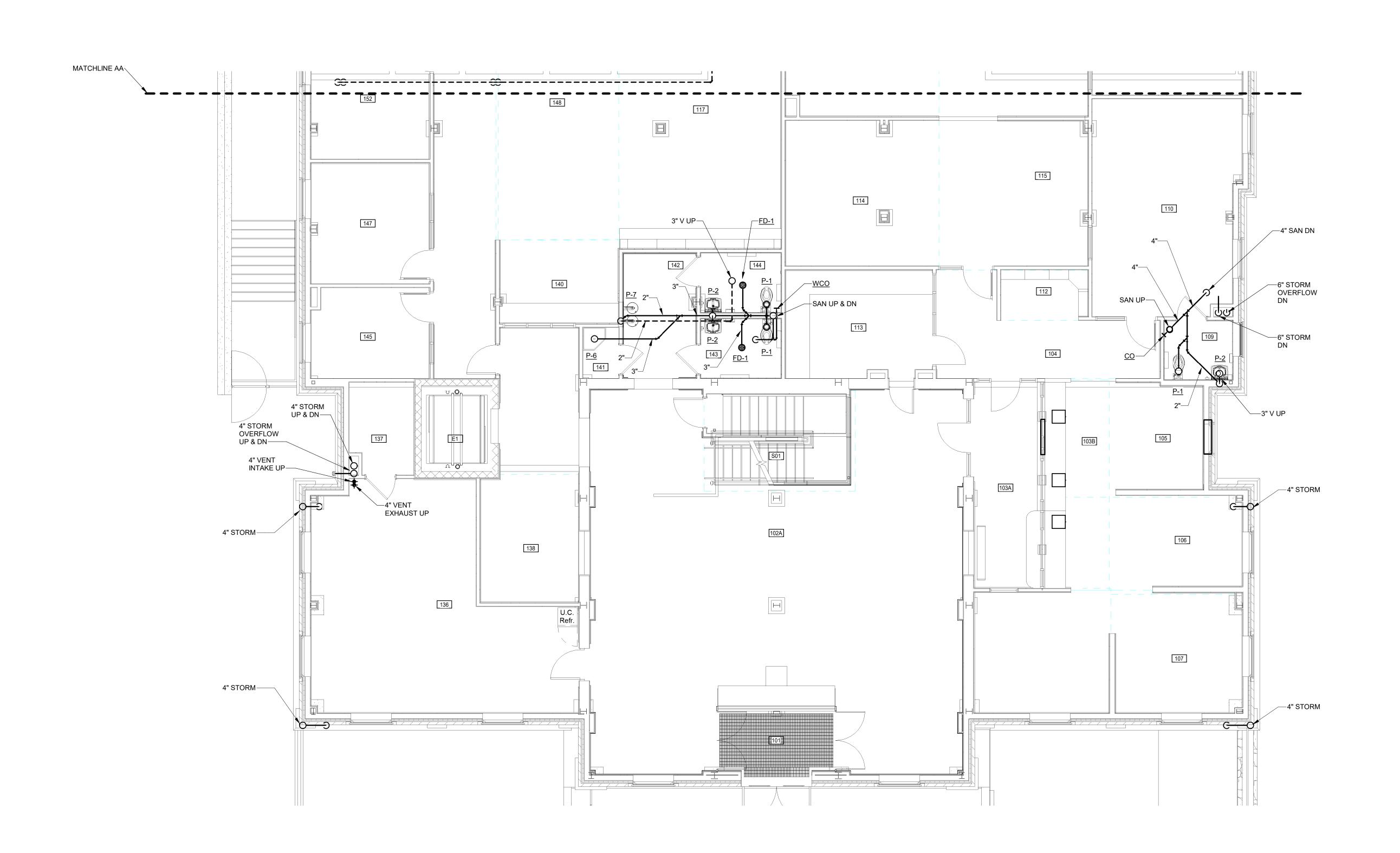
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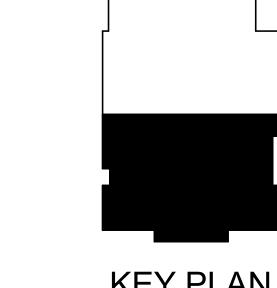
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SANITARY, **VENT AND** STORM BASEMENT FLOOR PLAN

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SANITARY, VENT AND STORM FIRST FLOOR PLAN PART A



KEY PLAN

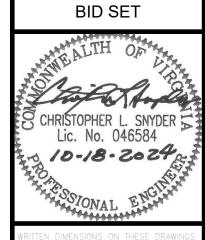
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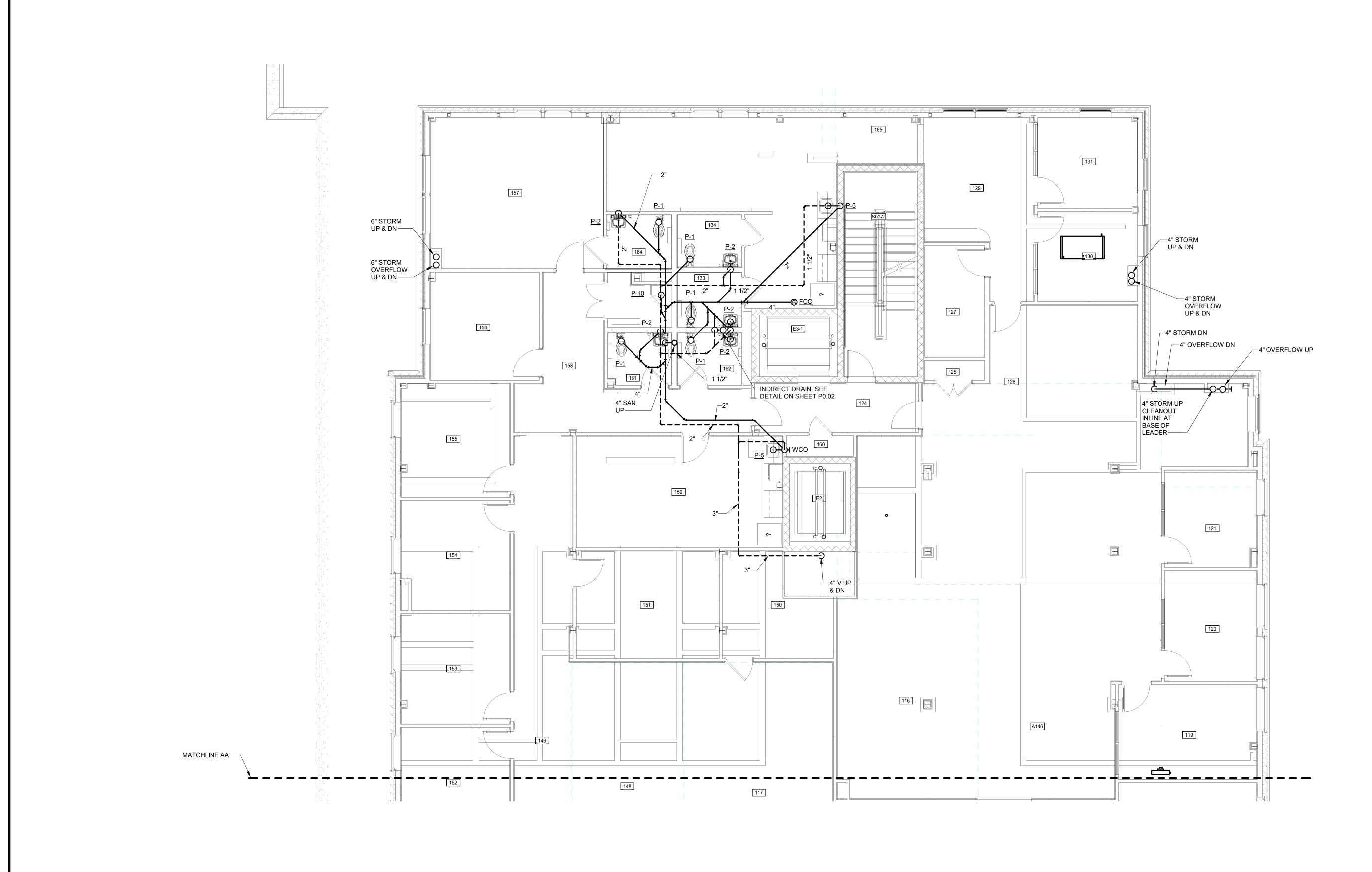
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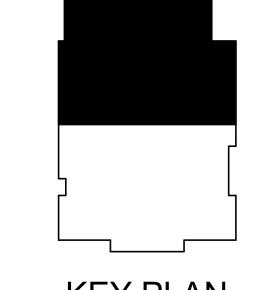


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SANITARY, VENT AND STORM FIRST FLOOR PLAN PART A







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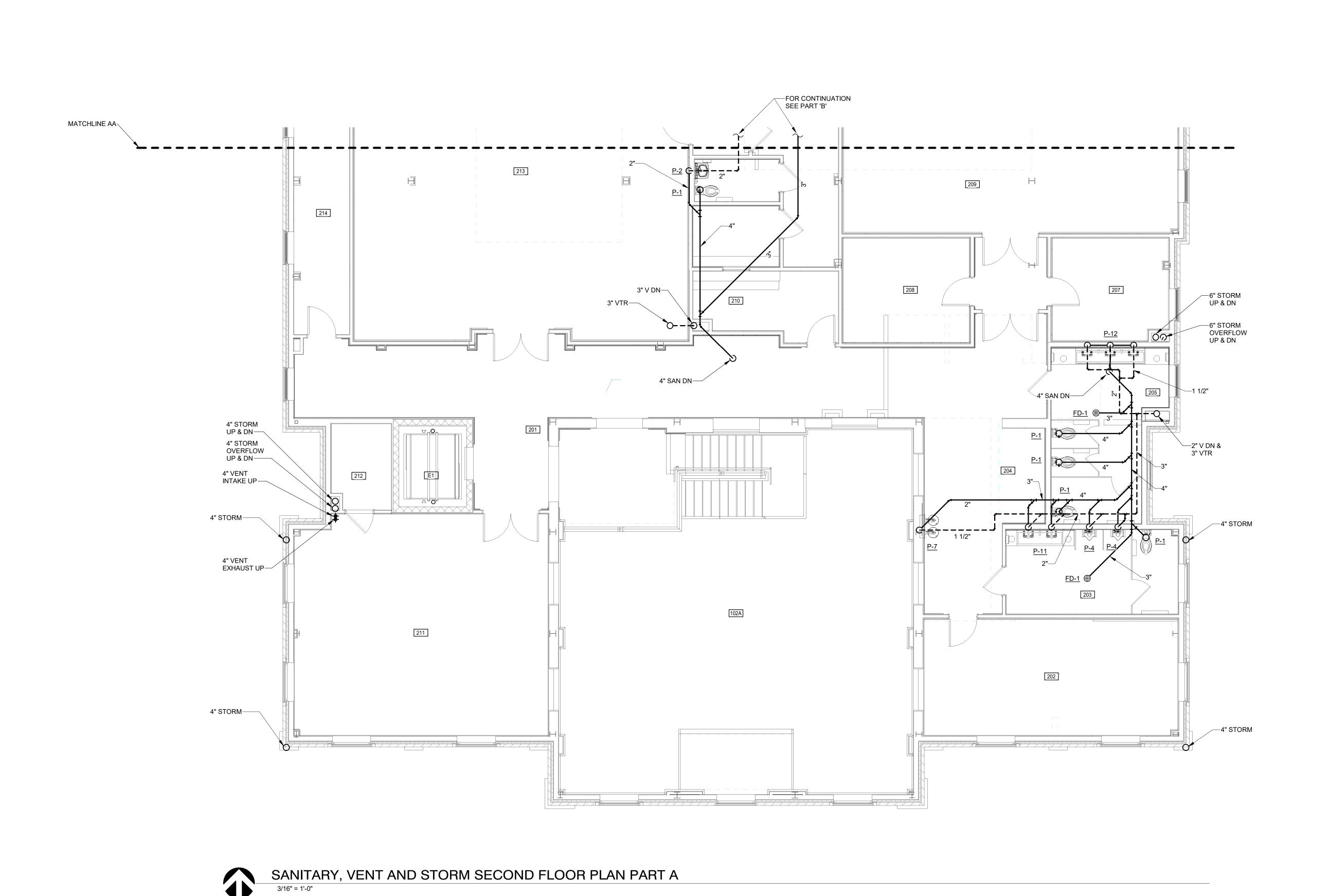
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SANITARY, **VENT AND** STORM FIRST FLOOR PLAN PART B





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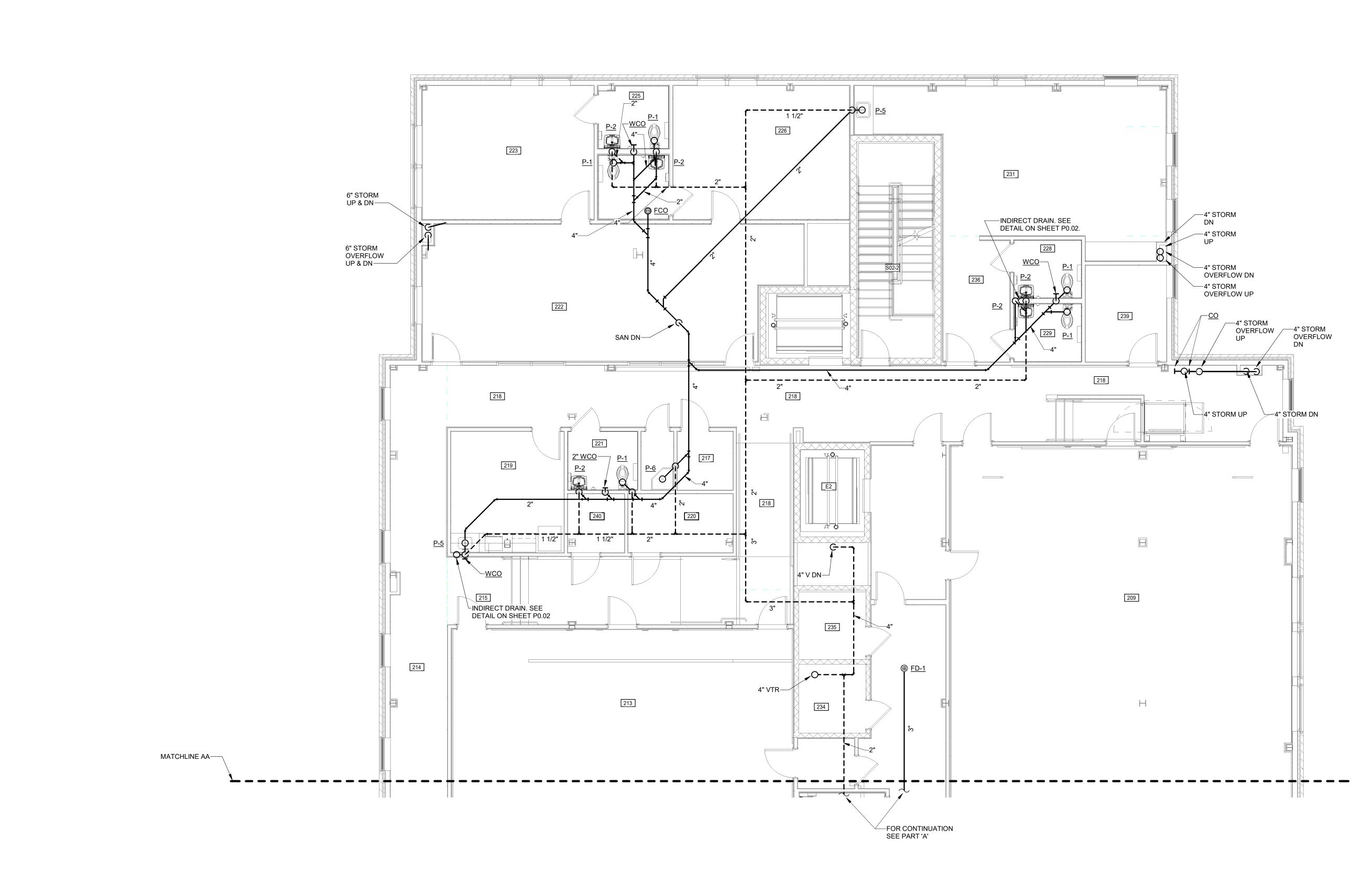
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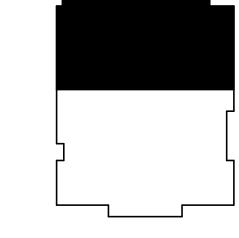
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SANITARY, **VENT AND** STORM SECOND FLOOR PLAN



SANITARY, VENT AND STORM SECOND FLOOR PLAN PART B

3/16" = 1'-0"



KEY PLAN

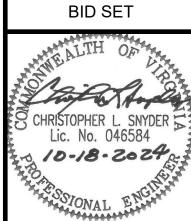
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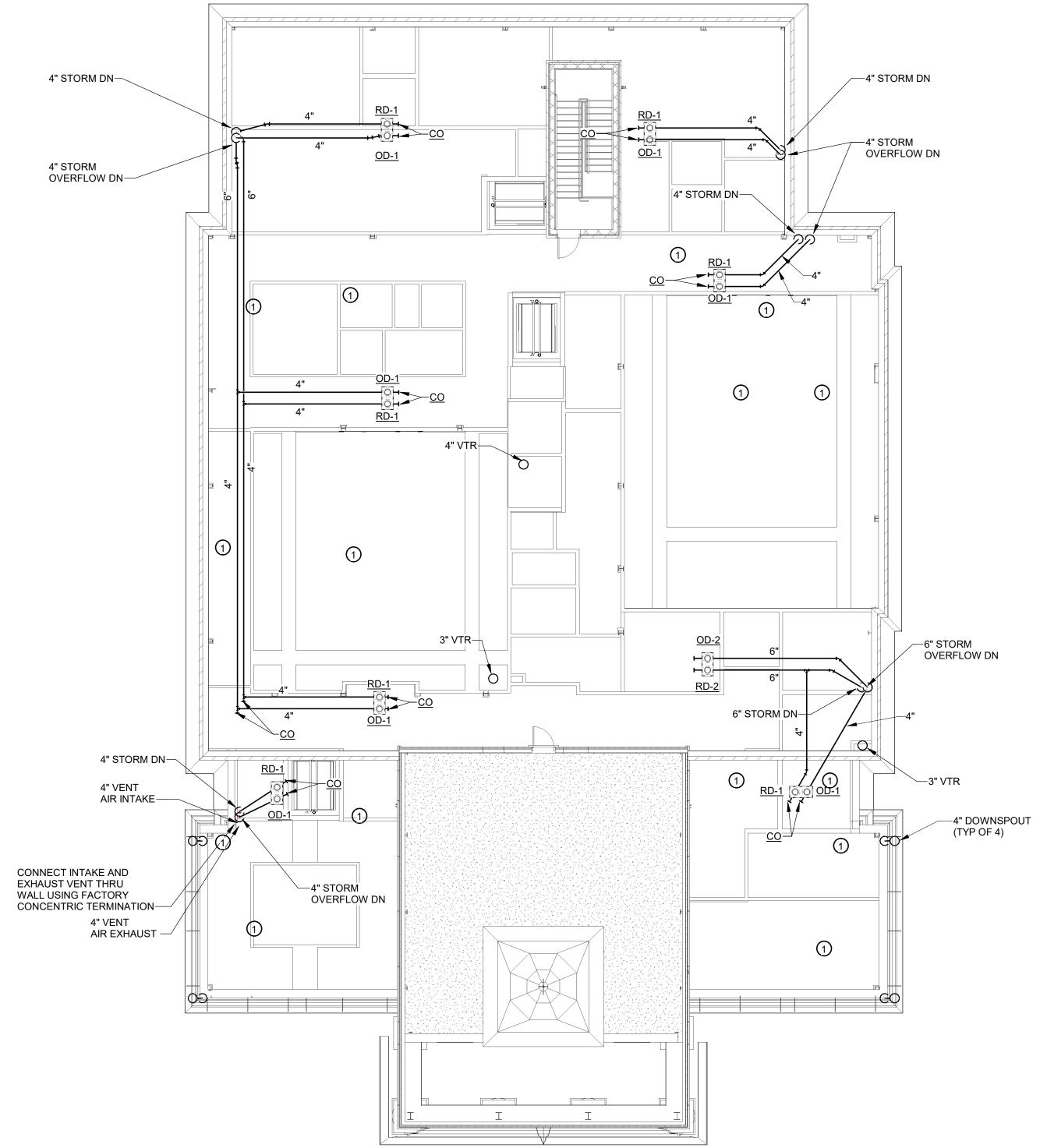
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> SANITARY, **VENT AND** STORM

SECOND FLOOR PLAN PART B



PLAN NOTES

TORM AND OVERFLOW DRAIN PIPING MUST BE SUSPENDED FROM ROOF STRUCTURE BEGINNING AT THE HIGHEST POSSIBLE ELEVATION TO ALLOW FOR SLOPE NOT LESS THAN 1/8" PER FOOT. ROUTE ALL CONTINUING DRAIN PIPING AS HIGH AS POSSIBLE. COORDINATE WITH ALL OTHER TRADES.





KEY PLAN

16' 24' 32'

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PLUMBING

ROOF PLAN

ARCHITECTURAL

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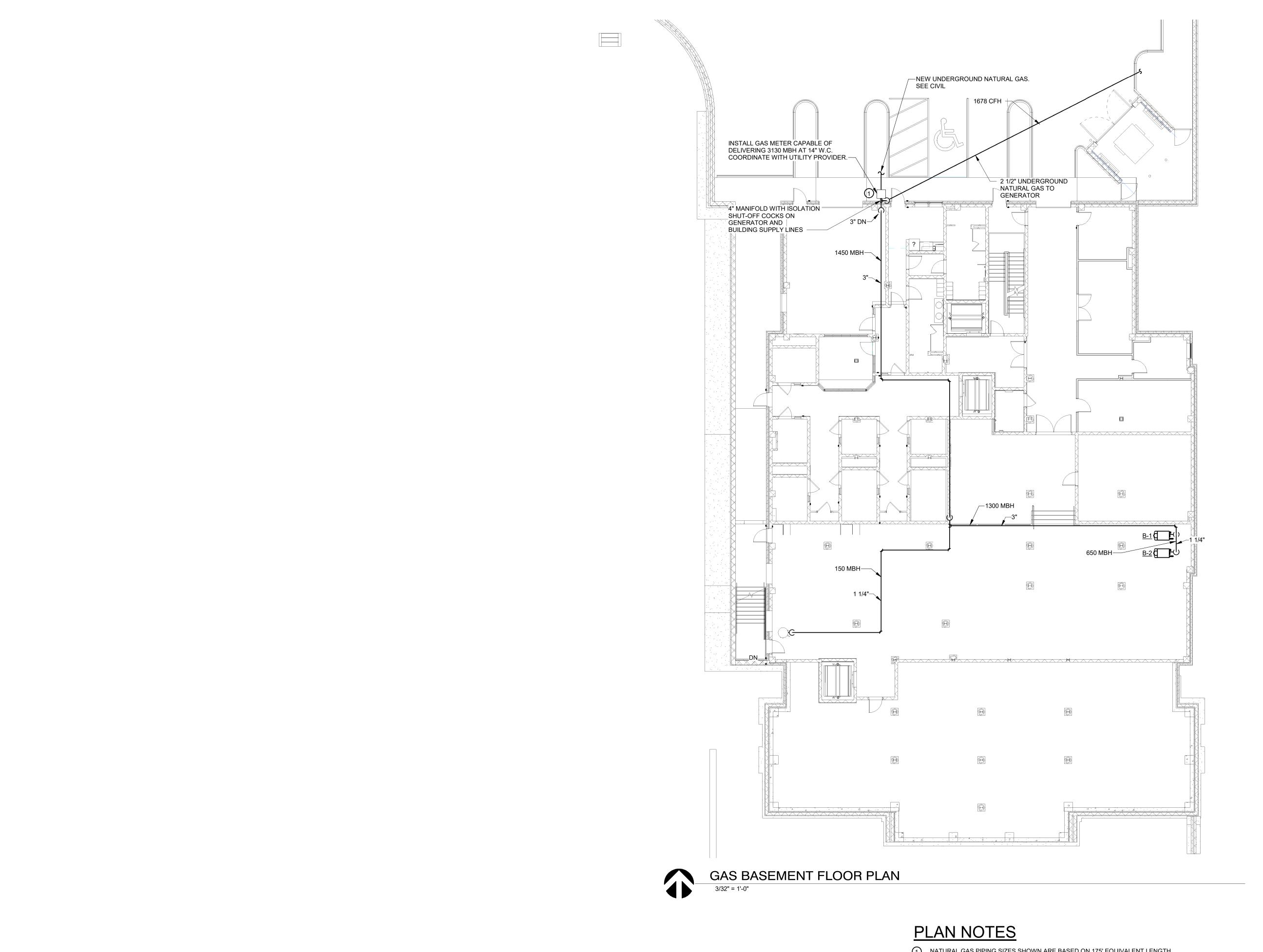
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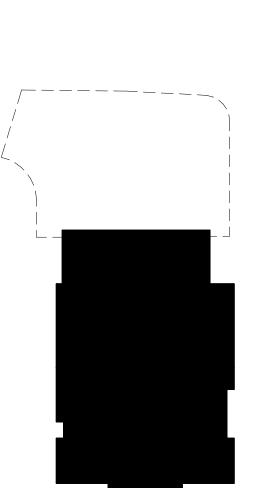
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CLS/WJC



1 NATURAL GAS PIPING SIZES SHOWN ARE BASED ON 175' EQUIVALENT LENGTH USING TABLE 402.4(1) IN THE 2018 IFGC AND VFGC FOR PIPING < 2 PSI WITH 0.3 IN W.C. PRESSURE DROP.



KEY PLAN



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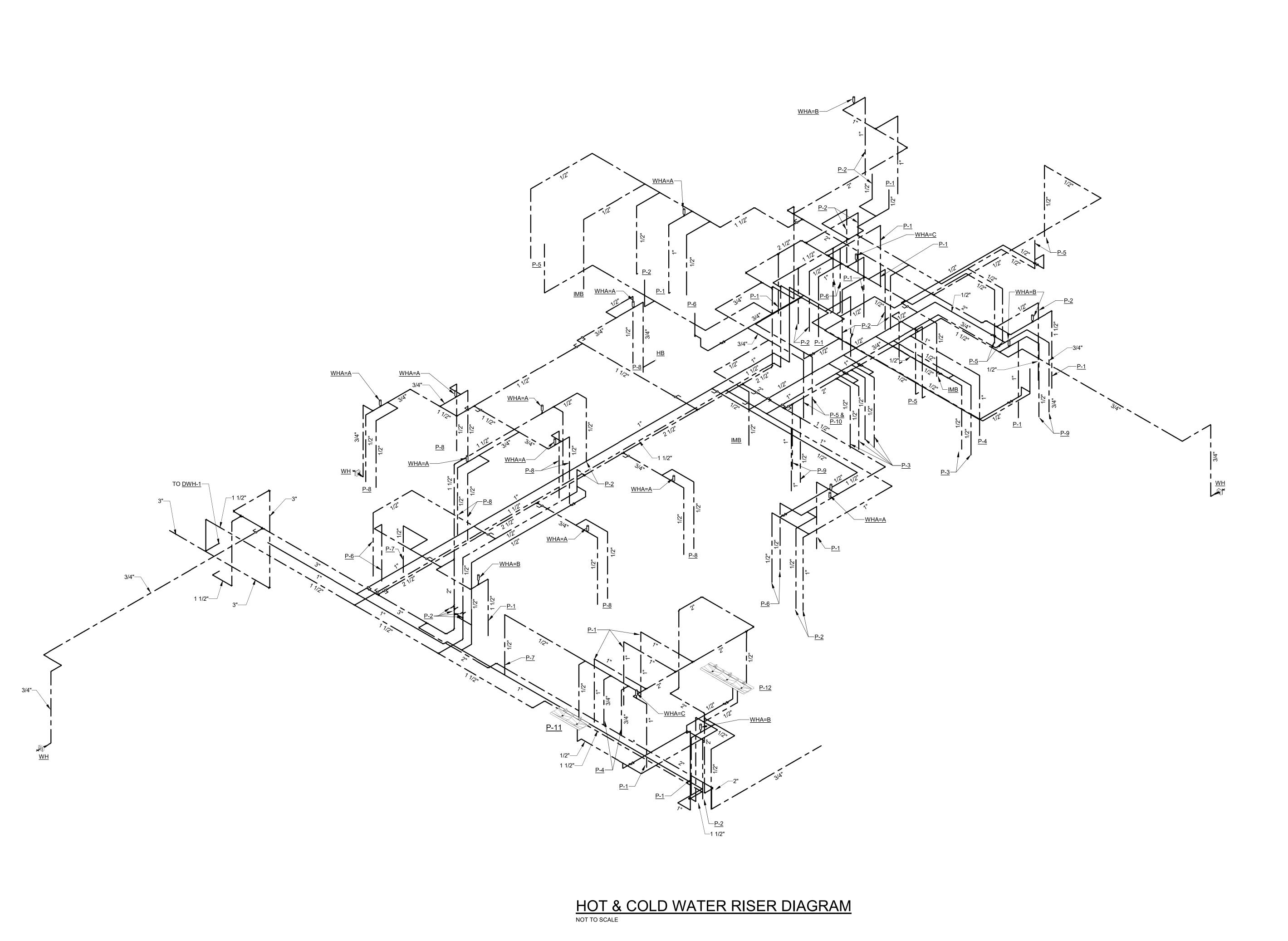
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GAS BASEMENT FLOOR PLAN



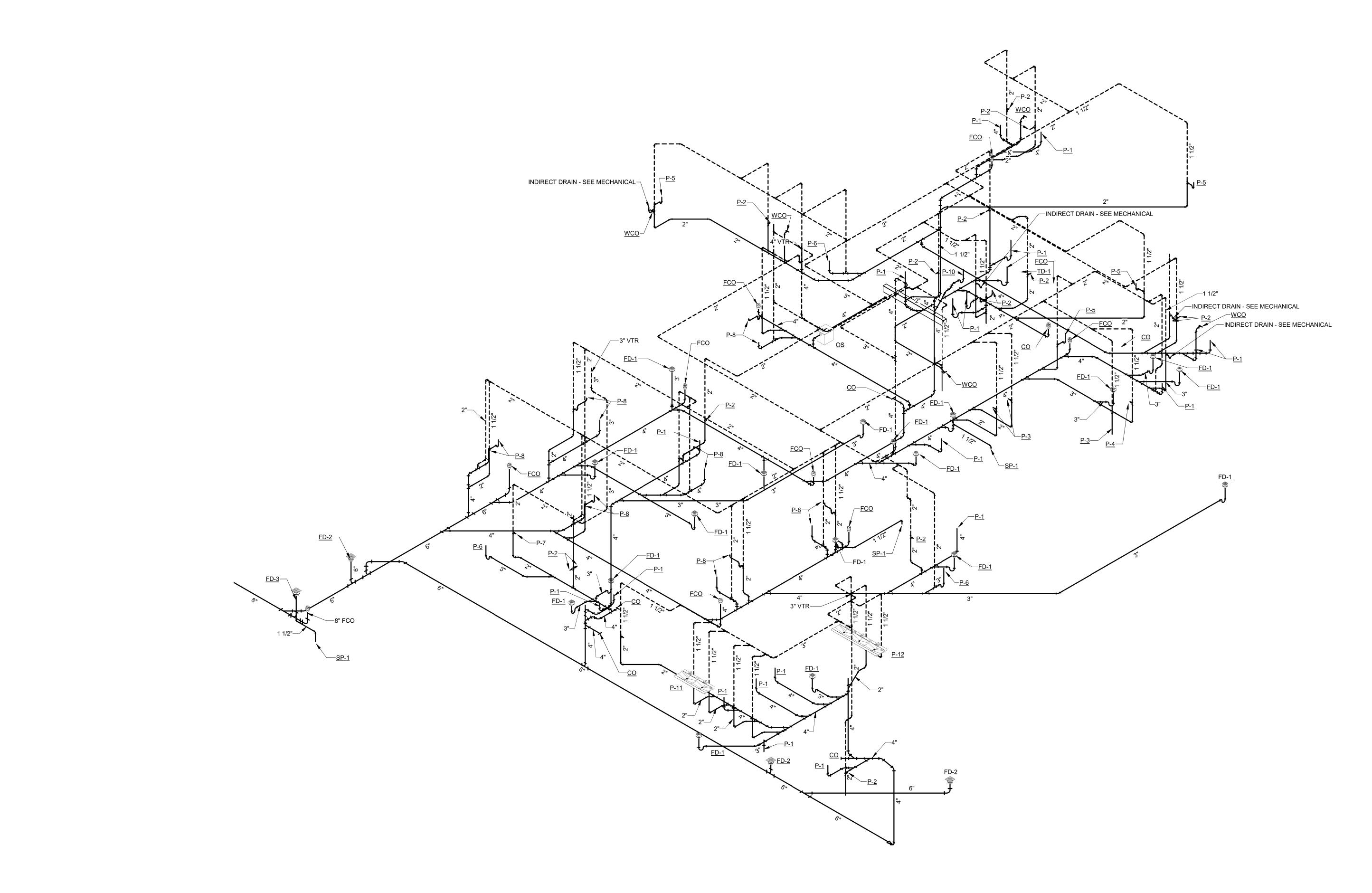
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HOT & COLD WATER RISER DIAGRAM

MASTER ENGINEERS & DESIGNERS 904 Lakeside Drive, Lynchburg VA 24501 434-846-1350 Fax: 434-846-1351



SANITARY & VENT RISER DIAGRAM
NOT TO SCALE

MASTER ENGINEERS & DESIGNERS T 904 Lakeside Drive, Lynchburg VA 24501 434-846-1350 Fax: 434-846-1351

ARCHITECTURAL PARTNERS

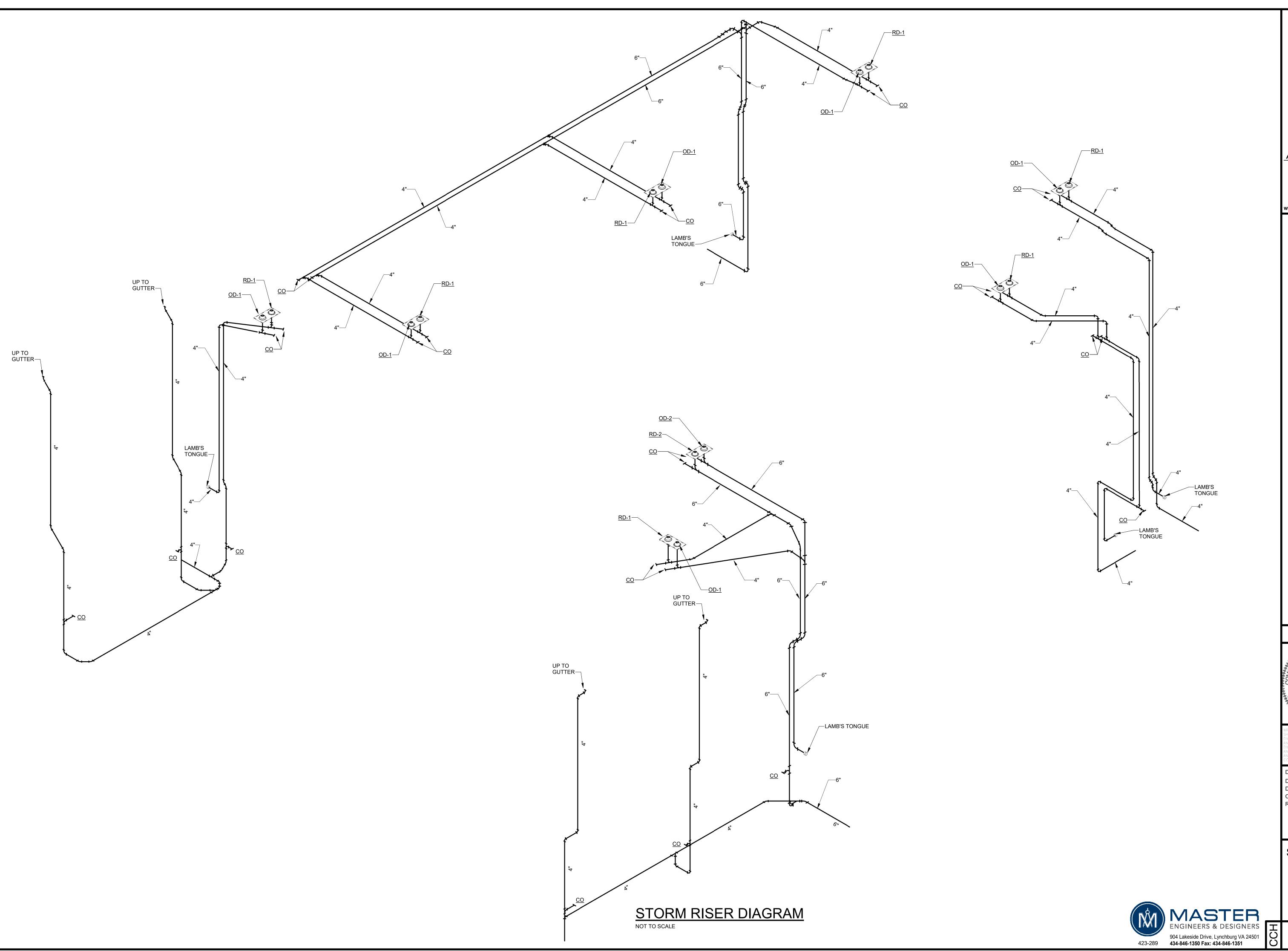
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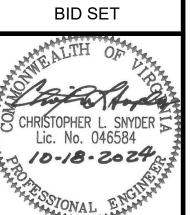
SANITARY AND VENT RISER DIAGRAM

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BOTETOURT (CIRCUIT CIRCUIT CIR



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STORM RISER DIAGRAM