

WATER HEATER SCHEDULE									
SYMBOL	LOCATION/ MODEL NO.	STORAGE CAPACITY GALLONS	GPH REC./TEMP. RISE*	OUTLET TEMPERATURE	ELECTRICAL CRITERIA		GAS CRITERIA		NOTES
					KW INPUT	BTU INPUT	FLUE SIZE		
EW-H-1	UNDER KITCH SINK (SEE PLAN) / EEMAX SPEX100T	INSTANT	1.0 GPM/68"	---	10	-----	--		7, 8
EW-H-2	TOILET ROOMS/ EEMAX SPEX4208T	INSTANT	0.5 GPM/56"	---	4.1	-----	--		7, 8
EW-H-3	OFFICE AREA JANITOR ROOM /DSE-80	80	61/80"	125°F	12.0	-----	--		1-7
EW-H-4	JANITOR ROOM /DEL-10	10	23/80"	125°F	4.5	-----	--		1-7
EW-H-5	AM AREA JANITOR ROOM /DEL-20	20	23/80"	125°F	4.5	-----	--		1-7
EW-H-6	JANITOR ROOM /DSE-80	80	31/80"	125°F	6	-----	--		1-7
EW-H-7	JANITOR ROOM /DSE-80	80	46/80"	125°F	9.0	-----	--		1-7
NOTES: 1. PROVIDE T&P RELIEF VALVE AND VACUUM RELIEF VALVE 2. PROVIDE GATE/BALL VALVES WITH UNIONS AND DIELECTRIC FITTINGS ON WATER INLET AND OUTLET CONNECTIONS. 3. ALL UNITS SHALL MEET ASHRAE 90.1-2001 AND ALL LOCAL CODE REQUIREMENTS. ALL GAS FIRED UNITS SHALL BE AGA CERTIFIED. 4. DESIGN BASIS: A.O. SMITH AND EEMAX. 5. PROVIDE HEAT TRAP OR HEAT TRAP NIPPLES AT WATER HEATER WATER SUPPLY CONNECTIONS. 6. PROVIDE MANUFACTURED WATER EXPANSION RELIEF DEVICE, WATTS PLT-5 SERIES EXPANSION TANK(PROVIDE PLT-12 FOR EWH-3/6/7). 7. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL. 8. PROVIDE BALL VALVE WITH UNION AND DIELECTRIC FITTINGS ON WATER INLET; PROVIDE UNION AND DIELECTRIC FITTINGS ON WATER OUTLET.									

FIXTURE CONNECTION SCHEDULE				
FIXTURE #	FIXTURE TYPE	MINIMUM SIZE UTILITY TO FIXTURE		
		WASTE CONNECTION	HOT WATER SUPPLY	COLD WATER SUPPLY
WC-1	WATER CLOSET - FLUSH VALVE WALL HUNG	4"	---	1"
WC-1H	WATER CLOSET - FLUSH VALVE WALL HUNG - H.C.	4"	---	1"
WC-2	WATER CLOSET - FLUSH VALVE FLOOR MOUNTED	4"	---	1"
L-1	LAVATORY - WALL-HUNG	1 1/4"	1/2"	1/2"
L-2	LAVATORY - UNDERMOUNT	1 1/4"	1/2"	1/2"
UR-1	URINAL - WALL HUNG FLUSH VALVE	2"	---	3/4"
UR-1H	URINAL - WALL HUNG FLUSH VALVE - H.C.	2"	---	3/4"
MS-1	MOP SINK	3"	1/2"	1/2"
MS-2	MOP SINK	3"	1/2"	1/2"
KS-1	SINK - TWO COMPARTMENT	1 1/2"	1/2"	1/2"
KS-2	SINK - SINGLE COMPARTMENT	1 1/2"	1/2"	1/2"
EW-C-1	DRINKING FOUNTAIN	1 1/2"	---	1/2"
HB/NFHB/ NFHB-R	HOSE BIBB	-	---	3/4"
FOOTBATH STATION	FOOTBATH STATION	2"	1/2"	1/2"

PUMP SCHEDULE								
SYMBOL	SERVICE/ LOCATION	MANUFACTURER MODEL #	TYPE	FLOW (GPM)	HEAD (PSI/FT)	RPM	HP	NOTES
SP-1	ELEVATOR/ ELEVATOR PIT	STANCOR SE-100	SUBMERSIBLE	50	15.48/36	3450	1	---
HWRP-1	HOT WATER/ SEE PLAN	TACO 113	IN-LINE	5	6.9/16	1725	1/8	1
HWRP-2	HOT WATER/ SEE PLAN	TACO 112	IN-LINE	3.5	9/22	3450	1/3	1
BP-1A/1B	DOMESTIC WATER / SEE PLAN	VC SYSTEMS DUPLEX	END SUCTION	340 (TOTAL)	80/185	3500	20/20	2
1. TACO CIRCULATOR WITH 265-3 DIGITAL TIMER. SET FLOW RATE(GPM) PER ENLARGED PLANS. 2. DUPLEX SYSTEM FLOW: 340 GPM(TOTAL). EACH DOMESTIC WATER BOOSTER PUMP AT 65% OF SYSTEM CAPACITY 221 GPM W/ 185' TDH. MODEL NO. 2VC-DPE-PWC-VH-20-430-460								

FLOW TEST DATA SCHEDULE	
UPON AWARD OF THE CONTRACT, THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A FLOW TEST ON THE TWO HYDRANTS NEAREST THE SITE AND FORWARD THE TEST DATA TO THE ENGINEER AND ARCHITECT. THE FOLLOWING WATER PRESSURE/FLOW DATA WAS OBTAINED FROM:	
STATIC PRESSURE	
RESIDUAL PRESSURE	
FLOW (GPM)	
ELEVATION OF TEST HYDRANT	
LOCATION OF TEST HYDRANT	
DATE OF TEST	
TIME OF DAY OF TEST	

DRAINAGE PRODUCTS/SPECIALTIES	
UNLESS OTHERWISE INDICATED NUMBERS ARE JAY R. SMITH. APPROVED EQUAL PRODUCTS: ZURN, JOSAM, WADE, WATTS AND PRECISION PLUMBING PRODUCTS	
CO-EXPOSED CLEANOUT - UNFINISHED AREAS JAY R. SMITH FIG. 4420 CAST BRONZE COUNTERSUNK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.	
WCO-WALL CLEANOUT - FINISHED AREAS JAY R. SMITH FIG. 4436 C.I. FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE, NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.	
FCO-CONCRETE FLOORS JAY R. SMITH FIG. 4220 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.	
FCO-TILE FLOORS JAY R. SMITH FIG. 4020 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG, ADJUSTABLE ROUND NICKEL BRONZE TOP, SPEEDI-SET OUTLET CONNECTION.	
FCO-CARPETED FLOORS JAY R. SMITH FIG. 4020-Y C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREW, SPEEDI-SET OUTLET CONNECTION.	
YCO-EXTERIOR PAVED/CONCRETE AREAS JAY R. SMITH FIG. 4261 C.I. FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER.	
YCO-EXTERIOR UNSURFACED AREAS JAY R. SMITH FIG. 4261 C.I. FLANGED HOUSING WITH HEAVY DUTY C.I. COVER, LIFTING DEVICE, GASKET SEAL THREADED PLUG, V.P. SCREWS IN COVER. PROVIDE 24" x 12" CONCRETE PAD FLUSH WITH SURFACE.	
FD "G" - FLOOR DRAINS-GENERAL/RESTROOMS JAY R. SMITH FIG. 2005-B6 SERIES C.I. FLOOR DRAIN WITH 6" DIAMETER SQUARE NICKEL BRONZE STRAINER, SPEEDI-SET OUTLET CONNECTION AND TRAP PRIMER CONNECTION.	
FD "M" -FLOOR DRAINS-GENERAL PURPOSE/MECHANICAL ROOM JAY R. SMITH FIG. 3715 SERIES CAST IRON 12" DIAMETER DRAIN WITH SEDIMENT BUCKET, CAST IRON GRATE WITH INTEGRAL 4" FUNNEL, SPEEDI-SET OUTLET CONNECTION.	
FS-1 - SANI-CEPTOR FLOOR & INDIRECT WASTE SINK JAY R. SMITH FIG. 3410-12 ACID RESISTANT FLOOR SINK WITH 1/2 GRATE AND DOME BOTTOM STRAINER.	
FS-2 - SANI-CEPTOR FLOOR & INDIRECT WASTE SINK JAY R. SMITH FIG. 3430-12 ACID RESISTANT FLOOR SINK WITH 1/2 GRATE AND DOME BOTTOM STRAINER.	
LAVATORY-WALL HUNG SUPPORT JAY R. SMITH #700 FOR MASONRY WALLS AND #700-M31 FOR METAL STUD WALLS.	
ELECTRIC WATER COOLER CARRIER-WALL HUNG JAY R. SMITH FIG. 830 SUPPORT WITH UPRIGHTS OF HIGH STRENGTH STEEL WITH WELDED BASES BOLTED TO FLOOR. FOR STEEL STUD WALLS, USE M31 RECTANGULAR UPRIGHTS.	
TP-"A"-AUTOMATIC TRAP PRIMER PPP PRIME-PRO SERIES AUTOMATIC TRAP PRIMER WITH MULTIPLE OUTLET DISTRIBUTION UNITS AS REQUIRED.	
WATER HAMMER ARRESTORS P.P.P. SYSTEM RATED PLUS SERIES COPPER WATER HAMMER ARRESTORS. INSTALL IN AN UPRIGHT POSITION AT ALL FLUSH VALVES, DISHWASHERS, PRV STATIONS, AND OTHER QUICK CLOSING VALVES, SOLENOIDS AND PLUMBING FIXTURES. LOCATE AND SIZE AS INDICATED ON DRAWINGS. WHERE NOT SHOWN ON DRAWINGS, LOCATE AND SIZE IN ACCORDANCE WITH PDI STANDARD WH-201.	
HB-HOSE BIBB LOOSE KEY WOODFORD #24P WITH LOOSE TEE KEY AND VACUUM BREAKER HOSE BIBB, CHROME PLATED FOR USE IN PUBLIC AREAS.	
NFHB-HOSEBIBB-EXTERIOR JAY R. SMITH FIG. 5609-QT NON FREEZE 3/4" CAST BRONZE EXPOSED HYDRANT INTEGRAL VACUUM BREAKER, NICKEL BRONZE FACE, AND SIZED IN ACCORDANCE WITH WALL THICKNESS.	
NFHB - R 3/4" ROOF MOUNT PEDESTAL NON-FREEZE HYDRANT COMPLETE WITH MOUNTING FLANGE AND SHROUD, MALE HOSE END OUTLET WITH VACUUM BREAKER, DRAIN DOWN FITTING ON INLET SIDE, WOODFORD MODEL SRH.	
IMS - ICE MAKER SUPPLY IPS WATER-TITE MODEL AB970QHACP PLASTIC BOX, BRASS QTR TURN VALVES W/ INTERGRAL LEAD FREE HAMMER ARRESTERS, 1/2" COLD WATER CONNECTION. PROVIDE GUY GRAY FR-12 SERIES IN FIRE RATED WALLS.	
DSN - DOWNSPOUT NOZZLE JAY R. SMITH FIG. 1775. DOWNSPOUT COVER WITH HINGED PERFORATED COVER.	
RD - ROOF DRAIN 6" RD AND SMALLER: CAST IRON BODY WITH COMBINED FLASHING AND GRAVEL STOP, UNDERDECK CLAMP AND SUMP RECEIVER, ADJUSTABLE EXTENSION AND CAST IRON DOME. JAY R. SMITH 1015-RC-R OR APPROVED EQUAL.	
8" RD AND LARGER: HIGH CAPACITY WITH 216 SQ. IN. FREE AREA, HAVE A CAST IRON BODY WITH COMBINED FLASHING AND GRAVEL STOP, UNDERDECK CLAMP AND SUMP RECEIVER, ADJUSTABLE EXTENSION AND CAST IRON DOME. JAY R. SMITH 1070-CR-R OR APPROVED EQUAL.	
ERD - EMERGENCY ROOF DRAIN 6" ERD AND SMALLER: CAST IRON BODY, COMBINED FLASHING AND GRAVEL STOP, CAST-IRON DOME, 3" MINIMUM INTERNAL WATER DAM, UNDER DECK CLAMP, SUMP RECEIVER AND ADJUSTABLE EXTENSION AS REQUIRED. JAY R. SMITH 1070-CR-R OR APPROVED EQUAL.	
8" ERD AND LARGER: HIGH CAPACITY WITH 216 SQ. IN. FREE AREA, HAVE A CAST IRON BODY WITH COMBINED FLASHING AND GRAVEL STOP, CAST-IRON DOME, 3" MINIMUM INTERNAL WATER DAM, UNDERDECK CLAMP, SUMP RECEIVER AND ADJUSTABLE EXTENSION AS REQUIRED. JAY R. SMITH 1070-CR-R OR APPROVED EQUAL.	

PLUMBING NOTES	
1.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
2.	ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE (WITH LOCAL AMENDMENTS AND ALL APPLICABLE LOCAL CODE AND ORDINANCES.
3.	ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
4.	WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
5.	SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM, PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.
6.	TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
7.	TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. TP "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRE LOCATIONS, UNON.
8.	LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
9.	ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH HAND-LAV GUARD MODELS 102 AND 105 INSULATION KITS.
10.	PROVIDE SHOCK ABSORBERS SIZED PER PDI SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, PRV STATIONS AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
11.	PROVIDE A BASE CLEANOUT AT THE LOWEST LEVEL OF ALL SANITARY AND WASTE STACKS.
12.	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTORS AT ALL DOMESTIC WATER CONNECTIONS TO MECHANICAL EQUIPMENT, POOL AND IRRIGATION CONNECTIONS, AND VENDING EQUIPMENT CONNECTIONS AS REQUIRED BY LOCAL CODE AND AUTHORITIES. BACKFLOW PREVENTORS ARE TO BE LOCATED WITH A MINIMUM OF 1'-0" CLEARANCE AT THE LOWEST POINT AND AT NO MORE THAN 5'-0" ABOVE FLOOR AT THE HIGHEST POINT OF THE DEVICE.
13.	PROVIDE MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
14.	CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
15.	ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
16.	ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.
17.	ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SINK, TREMCO, HILTI, METACALK, NELSON, OR FSS 7300 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. ALSO, REFER TO DIVISION 7 - THERMAL AND MOISTURE PROTECTION.
18.	PROVIDE AN INLINE FILTER ON THE DOMESTIC WATER SUPPLY TO ALL ICE MACHINES, FILTRINE MODEL 4TM OR ENGINEER APPROVED EQUAL.
19.	ALL VENT THRU ROOF PENETRATIONS SHALL BE ROUTED TO TERMINATE AT THE LEAST VISIBLE LOCATION FROM THE ENTRY VIEW.
20.	PROVIDE A FLANGED DOUBLE SPHERE FLOATING FLANGE FLEXIBLE CONNECTOR COMPLETE WITH CONTROL RODS AT THE DOMESTIC BOOSTER PUMP SUCTION AND DISCHARGE CONNECTIONS (PRESSURE RATING AS REQUIRED BY SYSTEM PRESSURE), KINETICS KINFLEX FTC SERIES.
21.	PROVIDE PRVS AT ALL BRANCH LINES SERVING FIXTURES OFF THE CW MAIN DOWNSTREAM OF THE BOOSTER PUMP, WHERE PRESSURES EXCEED 80 PSI.
22.	THE MINIMUM CLEAR HEIGHT FOR ALL PLUMBING SYSTEMS; REFER TO ARCHITECTURAL DRAWING FOR CLEAR HEIGHTS.

SEISMIC NOTE:	
ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINTS FOR THE SEISMIC USE GROUP IN WHICH THE BUILDING IS LOCATED IN (SEE STRUCTURAL DRAWINGS) AND ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE SECTION 1631 EARTHQUAKE LOADS, ASCE 7-05 CHAPTER 13 (FORMULAS 13.3-1, 13.3-2, AND 13.3-3), AND THE 2012 INTERNATIONAL BUILDING CODE CHAPTER 17 STRUCTURAL TESTS AND SPECIAL INSPECTIONS. DESIGN OF SYSTEM AND ALL SUBMITTAL DATA TO INCLUDE SEISMIC CALCULATIONS CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT LOCATION AND EMPLOYED BY THE RESTRAINT MANUFACTURER. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. SEISMIC RESTRAINTS SHALL BE BY MASON INDUSTRIES INC. OR AN APPROVED EQUAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.	

PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	AC	ABOVE CEILING
	AD	AREA DRAIN
	A/F	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	B/C	BELOW COUNTER
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
	BV	HOT WATER RETURN BALANCING VALVE
	CV	CHECK VALVE
	CW	COLD WATER PIPING
	DN	PIPING TURNING DOWN
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	G	GAS PIPING - LOW PRESSURE
	MG	GAS PIPING - MEDIUM PRESSURE
	GV	GATE/BALL VALVE
	HB/NFHB	HOSE BIBB/NON-FREEZE HOSE BIBB
	H.C.	HANDICAPPED
	HD	HUB DRAIN
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	O/H	OVER HEAD
	P-TRAP	P-TRAP
	PRV	PRESSURE REDUCING VALVE
	RD	ROOF DRAIN
	RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
	S W	SOIL, WASTE PIPING (ABOVE GROUND)
	TP	TRAP PRIMER
	UN	UNION
	UP	PIPING TURNING UP
	V	VENT PIPING
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	WH/NFHW	WALL HYDRANT/NON-FREEZE WALL HYDRANT
	YCO	YARD CLEANOUT

DESIGN CRITERIA:
AR SORTABLE MULTI-STORY V3.0
IT INFRASTRUCTURE DESIGN NAFCA V9.4 2021

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TOTAL DRAWINGS ISSUED: 45	



**MACGREGOR
ASSOCIATES
ARCHITECTS**

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT

JSE
Jordan & Skala
Engineers
4275 Brookhaven Dr. • Suite 200
Norcross, GA 30093-2997
P: 770.442.5847 • F: 770.442.0262
Project Number: 211800
Drawn by: CF Checked by: DMS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
	01/21/22	BID SET

PROJECT INFORMATION

**PROJECT
WHALE**

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
**GENERAL
NOTES,
LEGENDS AND
SCHEDULES -
PLUMBING**

SHEET NUMBER

P-001

NOT FOR CONSTRUCTION



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockland Rd. • Suite 200
Folsom, CA 95630-2997
P 707.442.5242 F 707.442.0242

Project Number: 211000
Drawn By: Author Checked By: Checker

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

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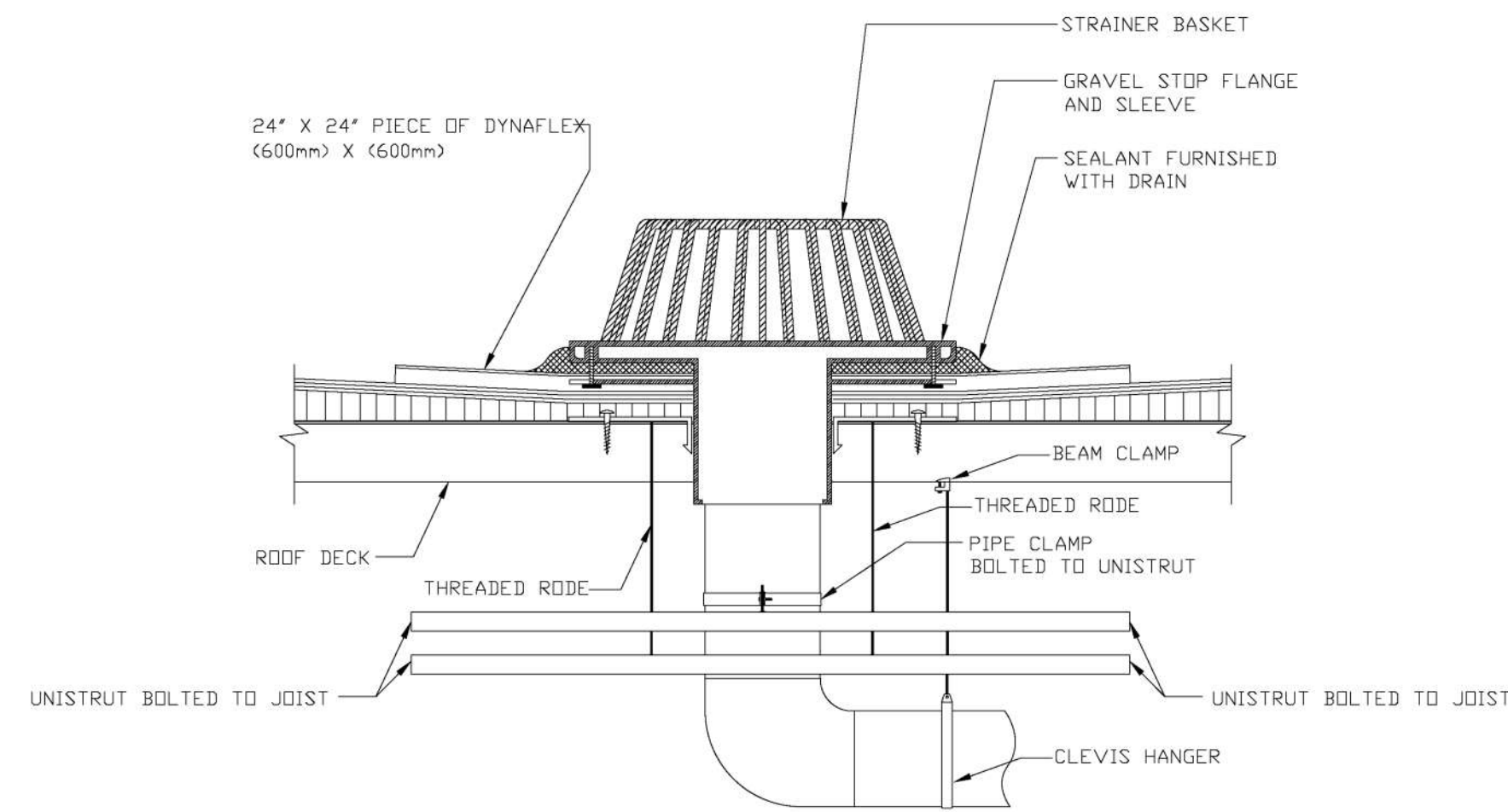
DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
PLUMBING
DETAILS

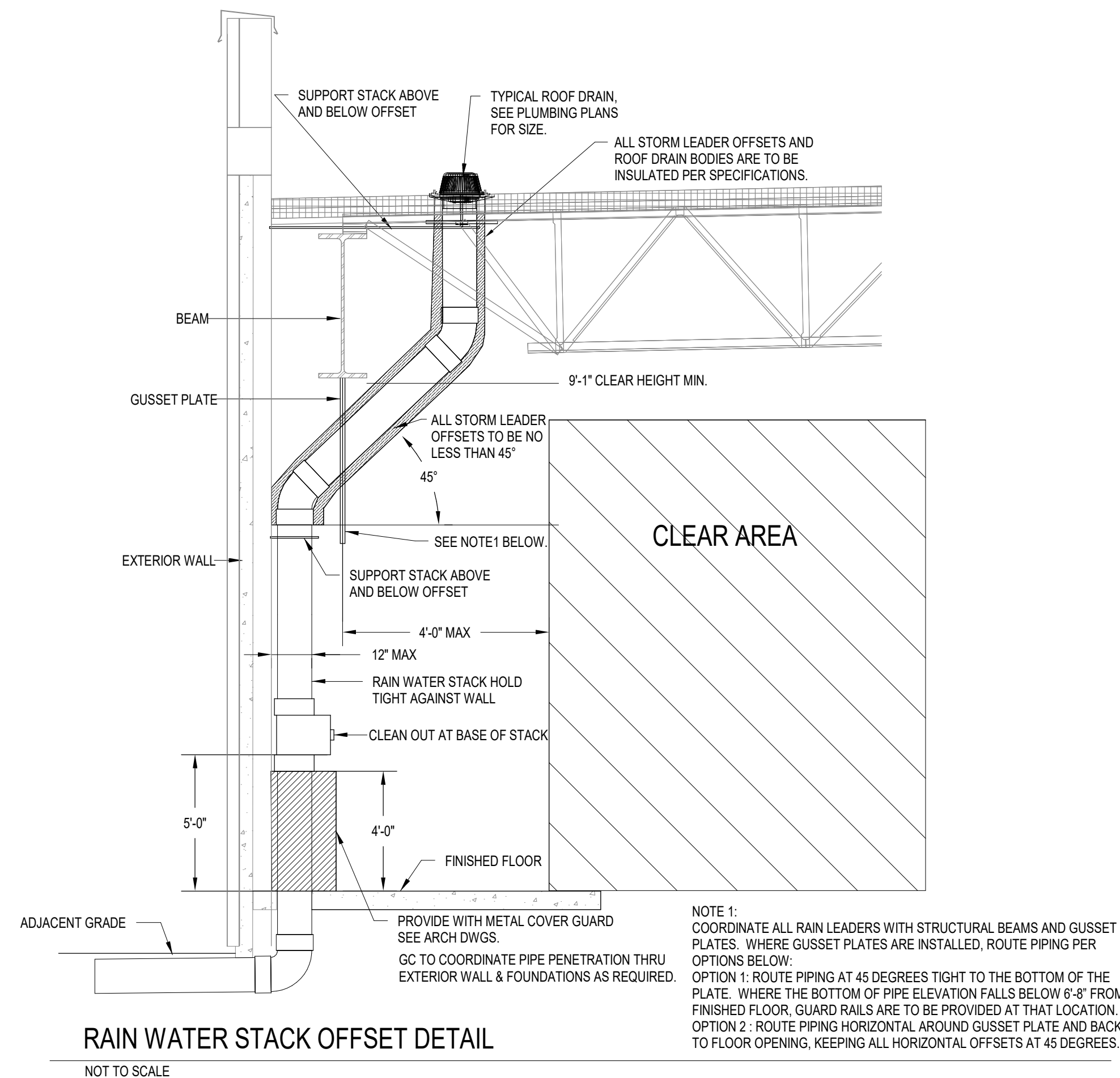
SHEET NUMBER

P-002

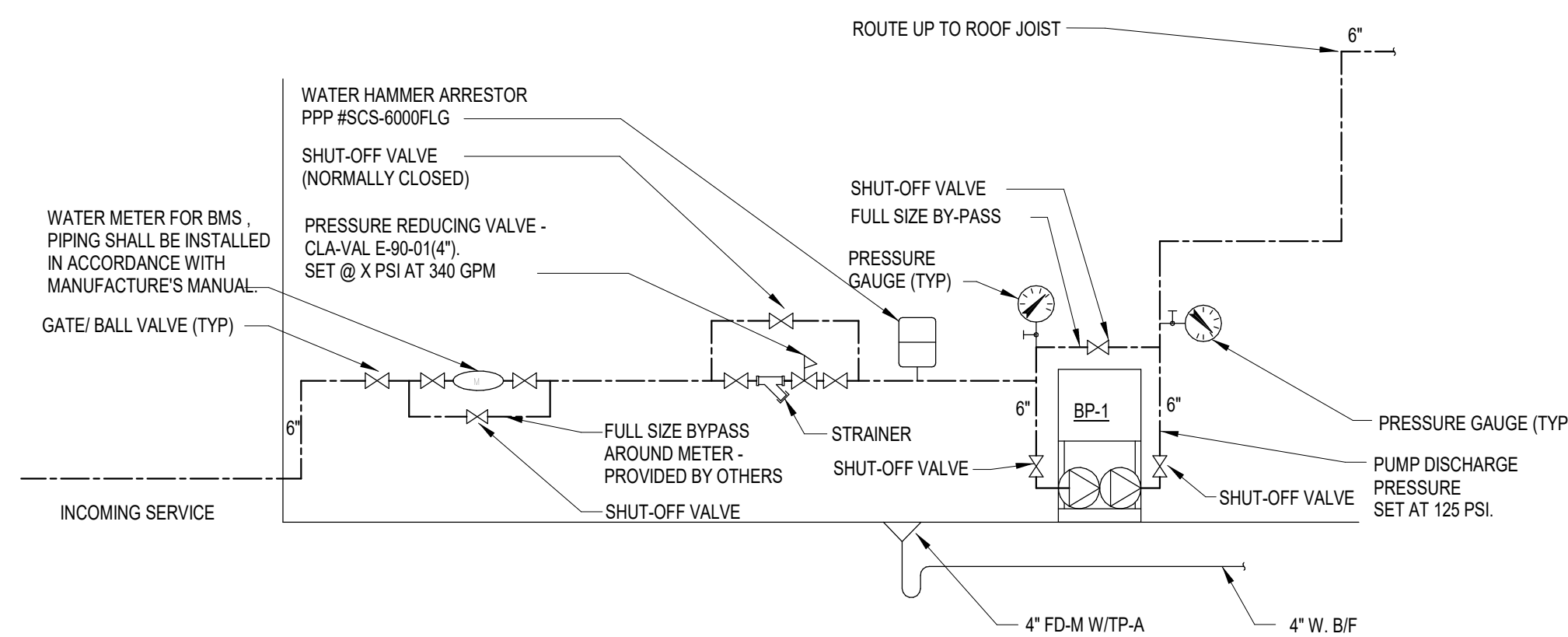
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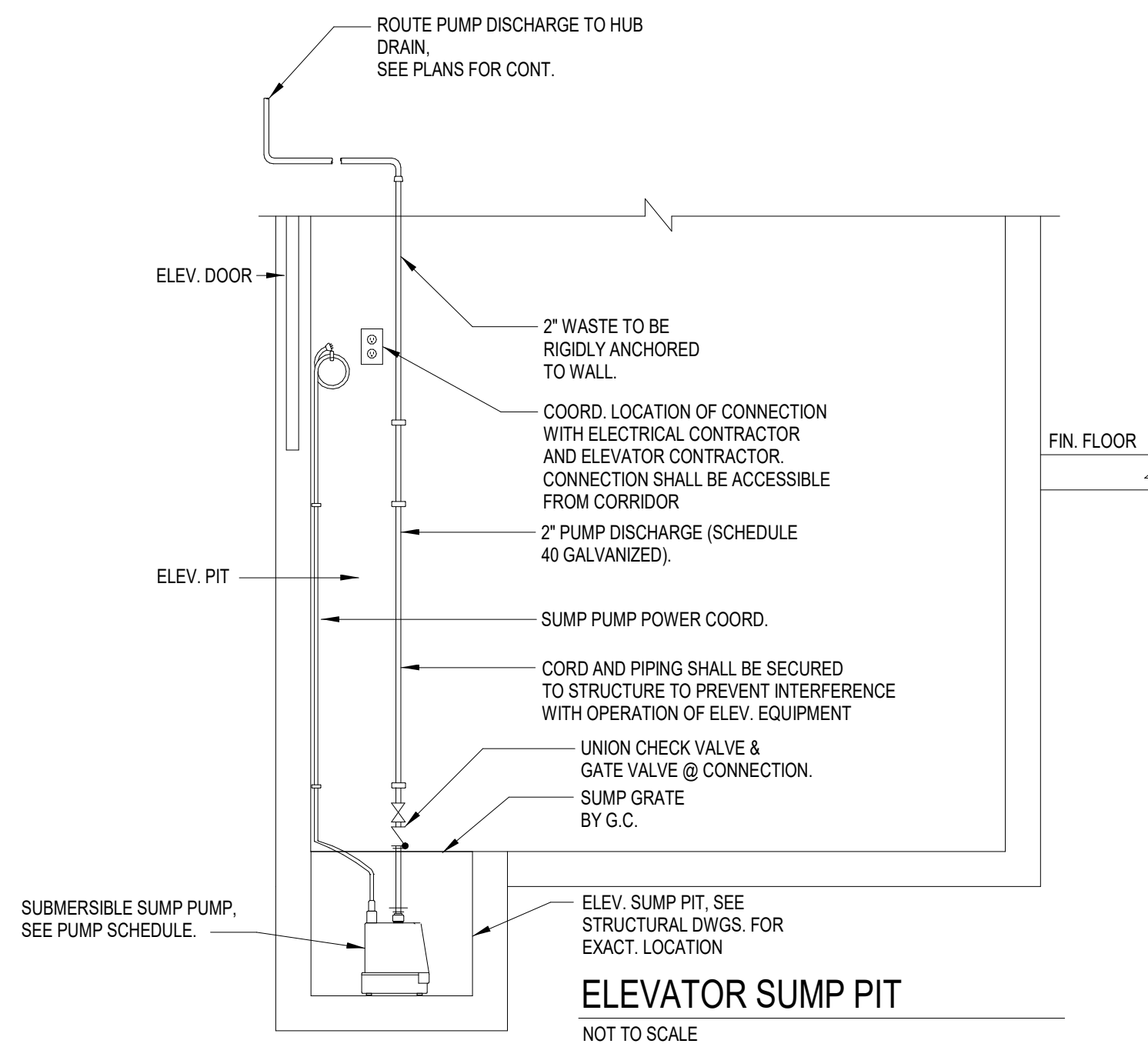
ROOF DRAIN SUPPORT
NOT TO SCALE



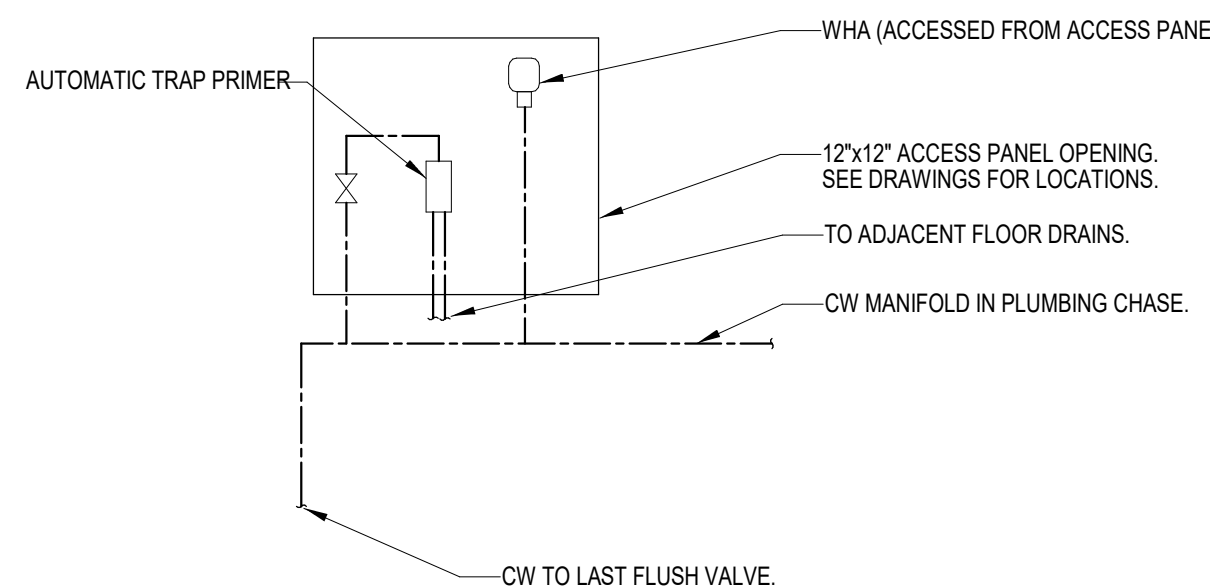
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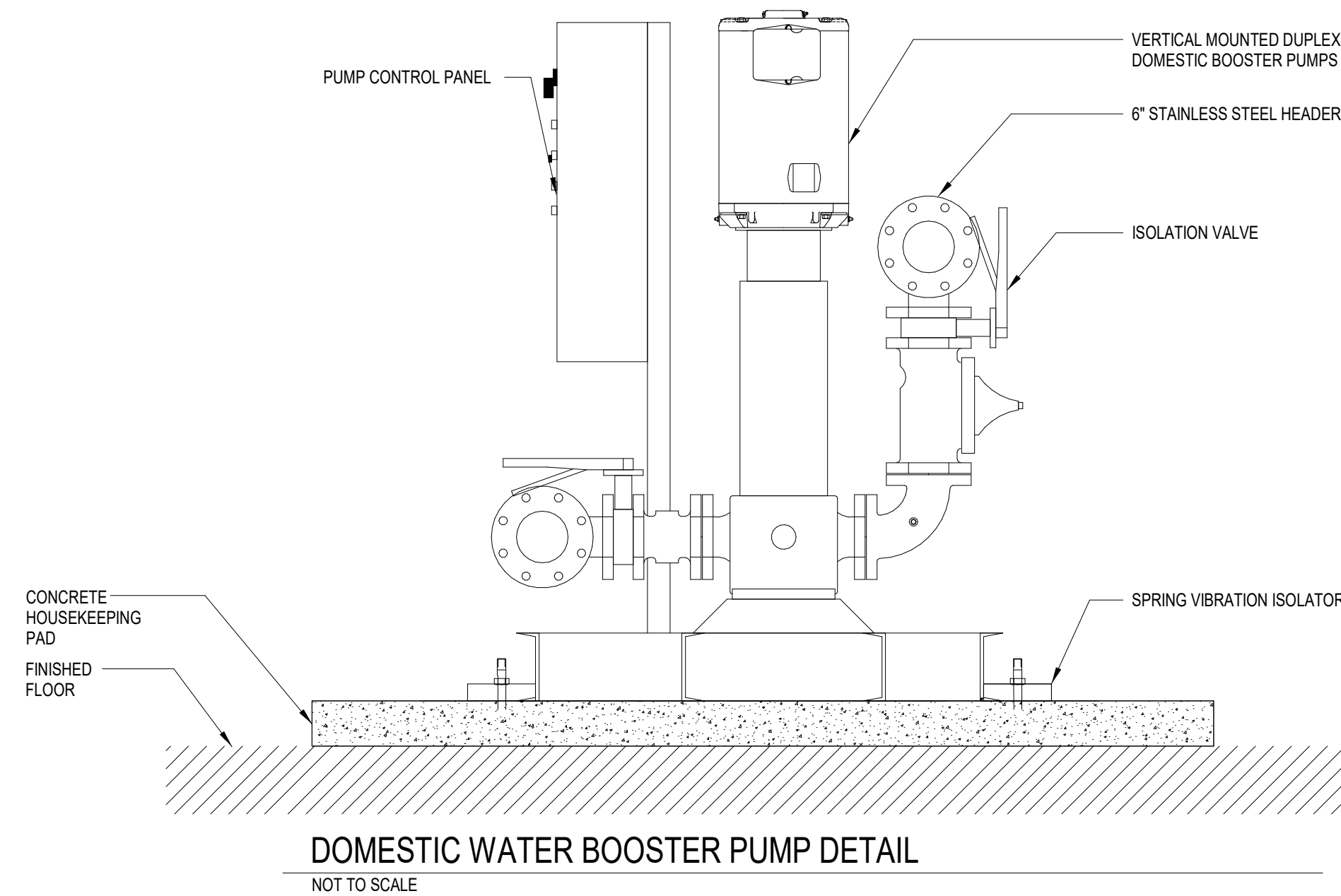
WATER SERVICE ENTRY
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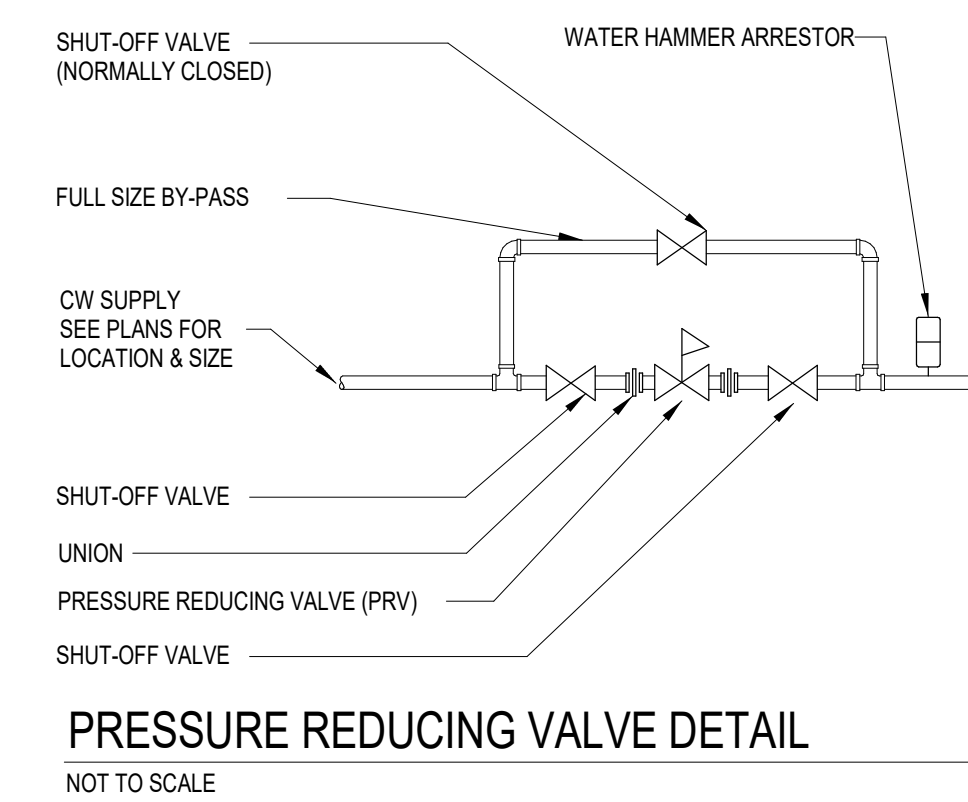
ELEVATOR SUMP PIT
NOT TO SCALE



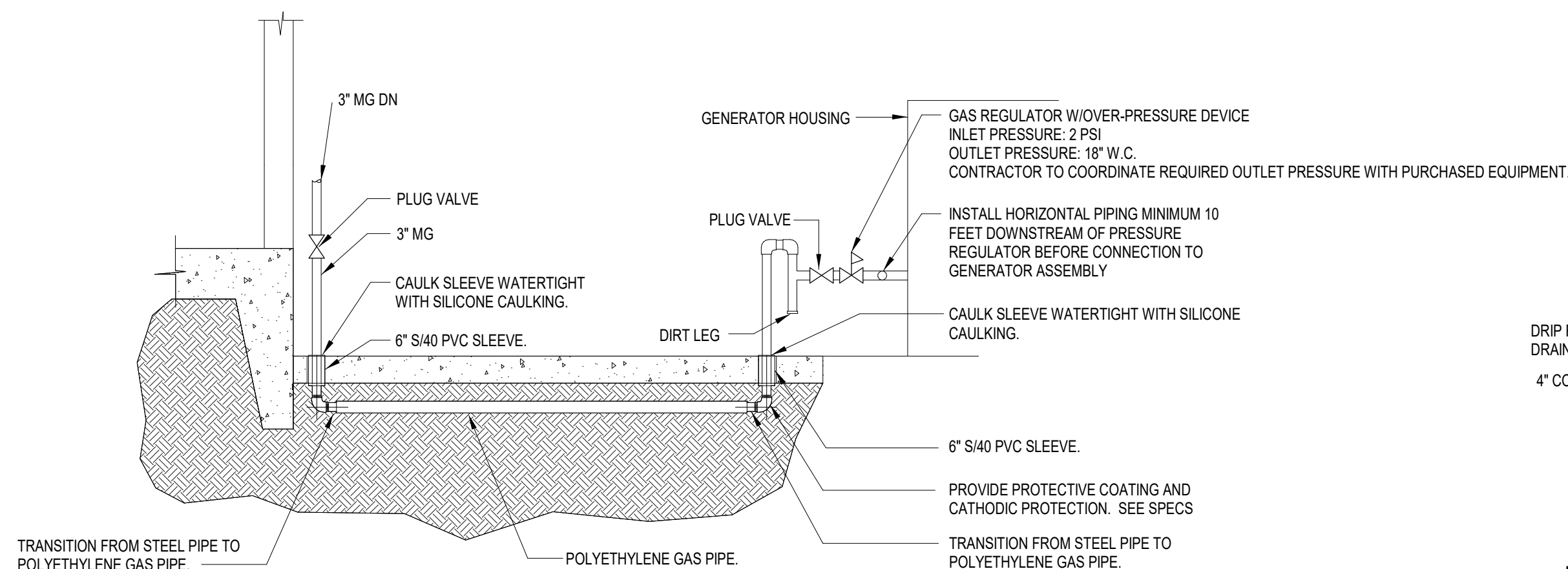
ACCESS PANEL AT PLUMBING CHASE
NOT TO SCALE



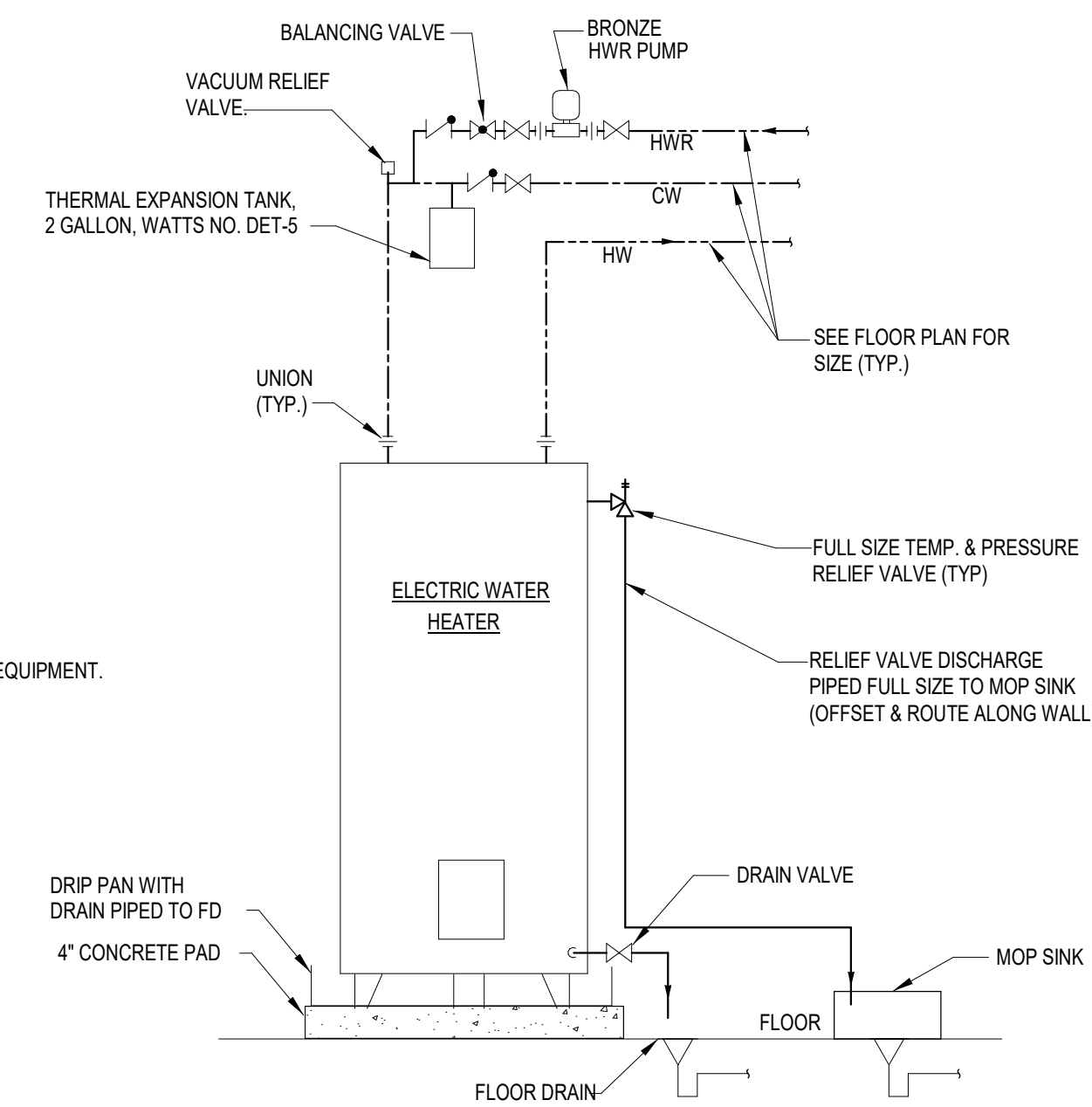
DOMESTIC WATER BOOSTER PUMP DETAIL
NOT TO SCALE



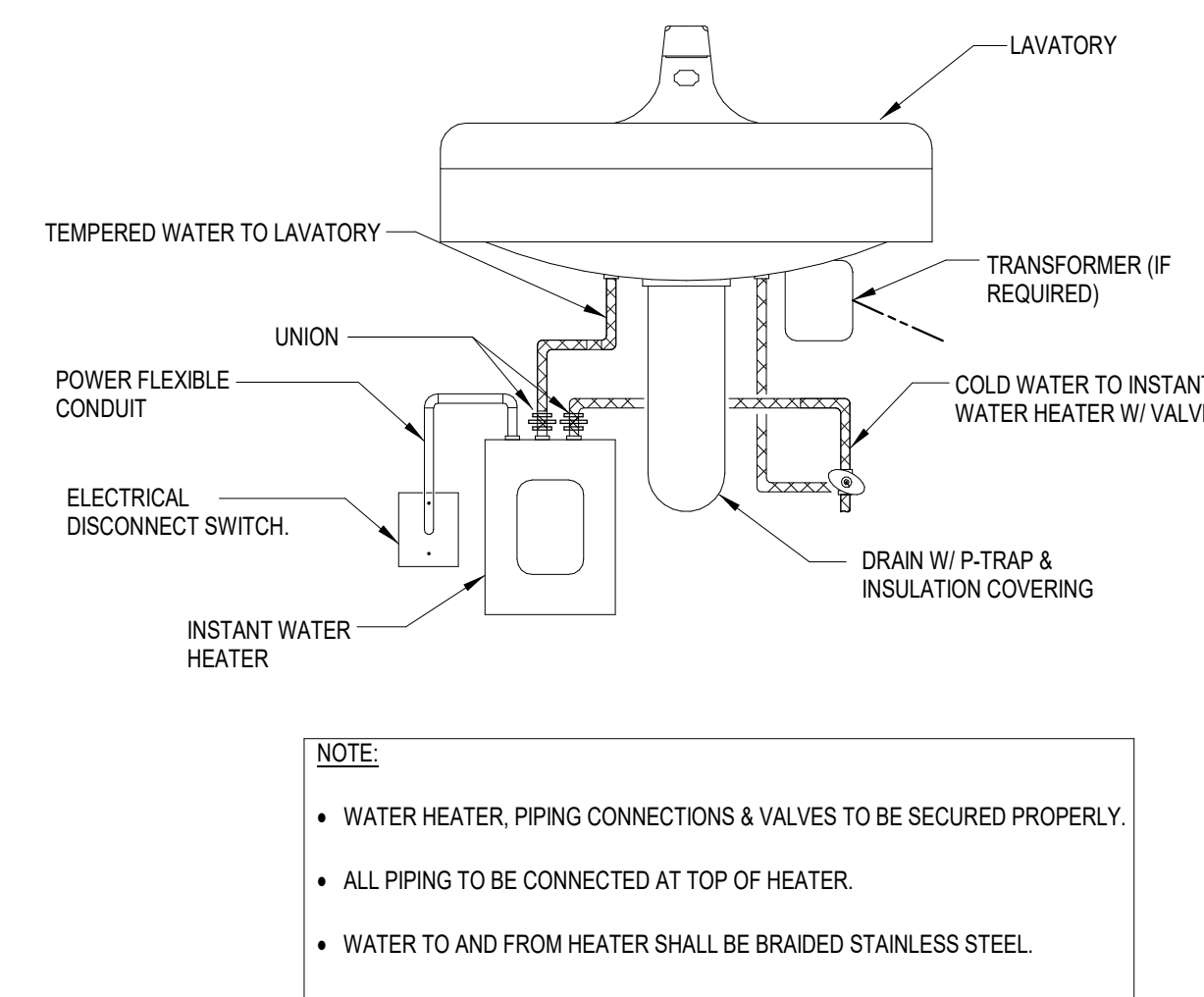
PRESSURE REDUCING VALVE DETAIL
NOT TO SCALE



UNDERGROUND GAS PIPING TO EMERGENCY GENERATOR DETAIL
NOT TO SCALE



ELECTRIC WATER HEATER (WITH HWRP)
NOT TO SCALE



INSTANTANEOUS WATER HEATER INSTALLED UNDER LAVATORY
NOT TO SCALE

- NOTE:
- WATER HEATER, PIPING CONNECTIONS & VALVES TO BE SECURED PROPERLY.
 - ALL PIPING TO BE CONNECTED AT TOP OF HEATER.
 - WATER TO AND FROM HEATER SHALL BE BRAIDED STAINLESS STEEL.



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockland Rd. • Suite 200
Rossmore, CA 95053-2997
P: 770.442.5542 • F: 770.442.0242

Project Number: 211000
Drawn By: CF Checked By: DHS

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PROJECT INFORMATION

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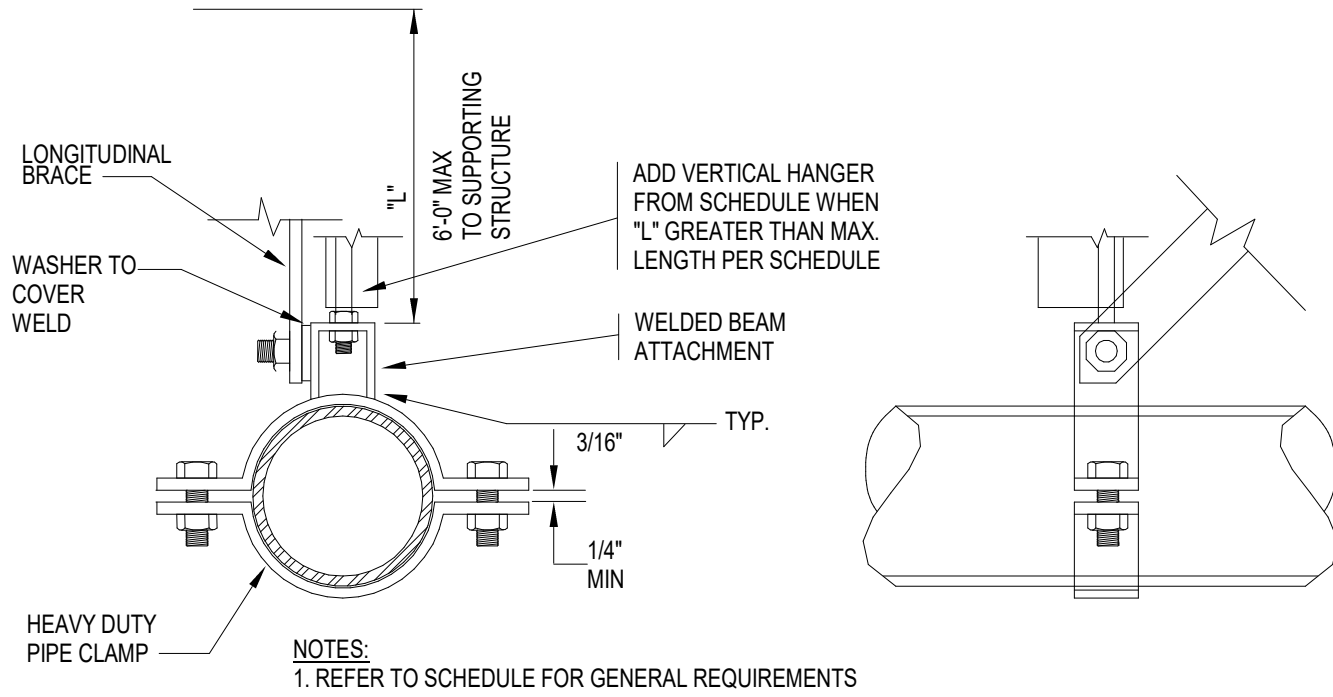
DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
PLUMBING
DETAILS

SHEET NUMBER

P-003

NOT FOR CONSTRUCTION



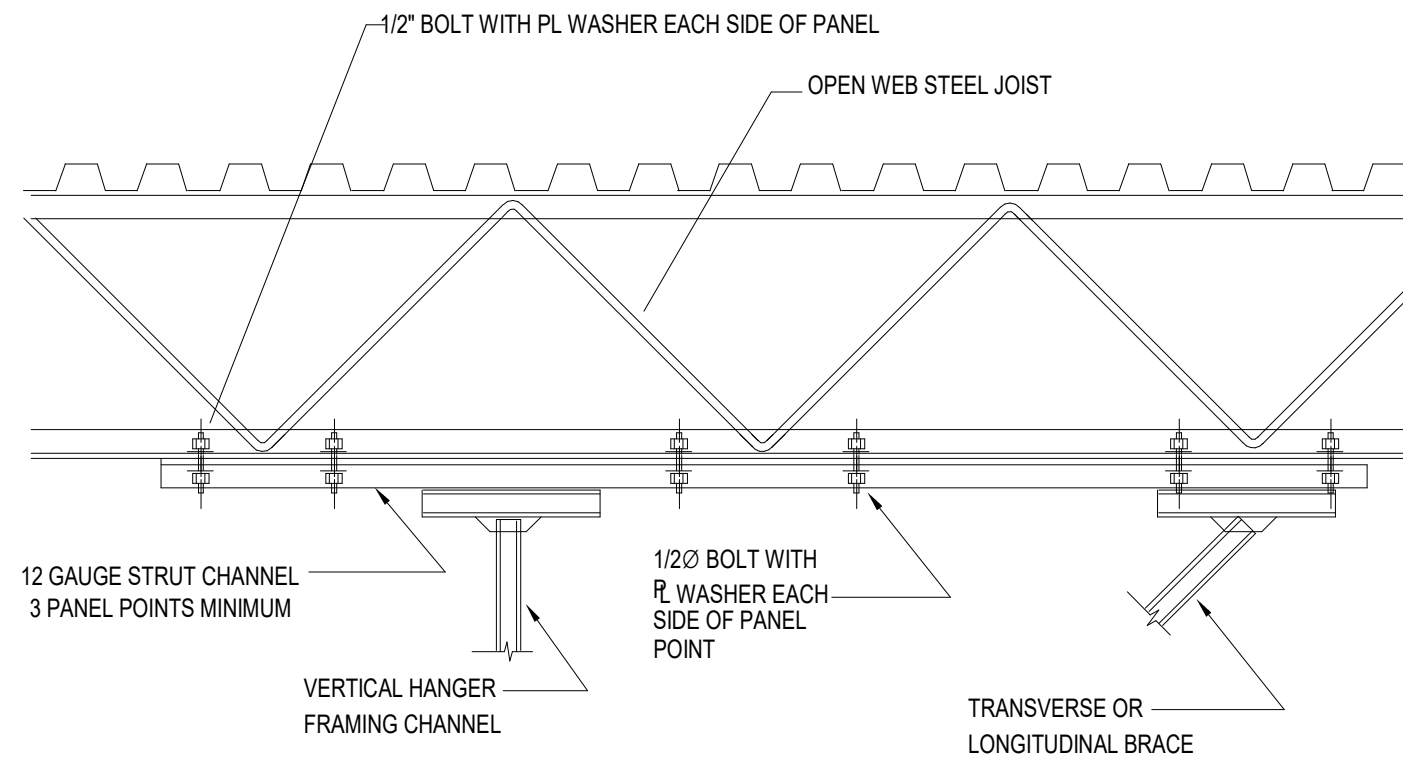
LONGITUDINAL BRACING FOR PIPES

NOT TO SCALE

SCHEDULE - PIPE BRACING

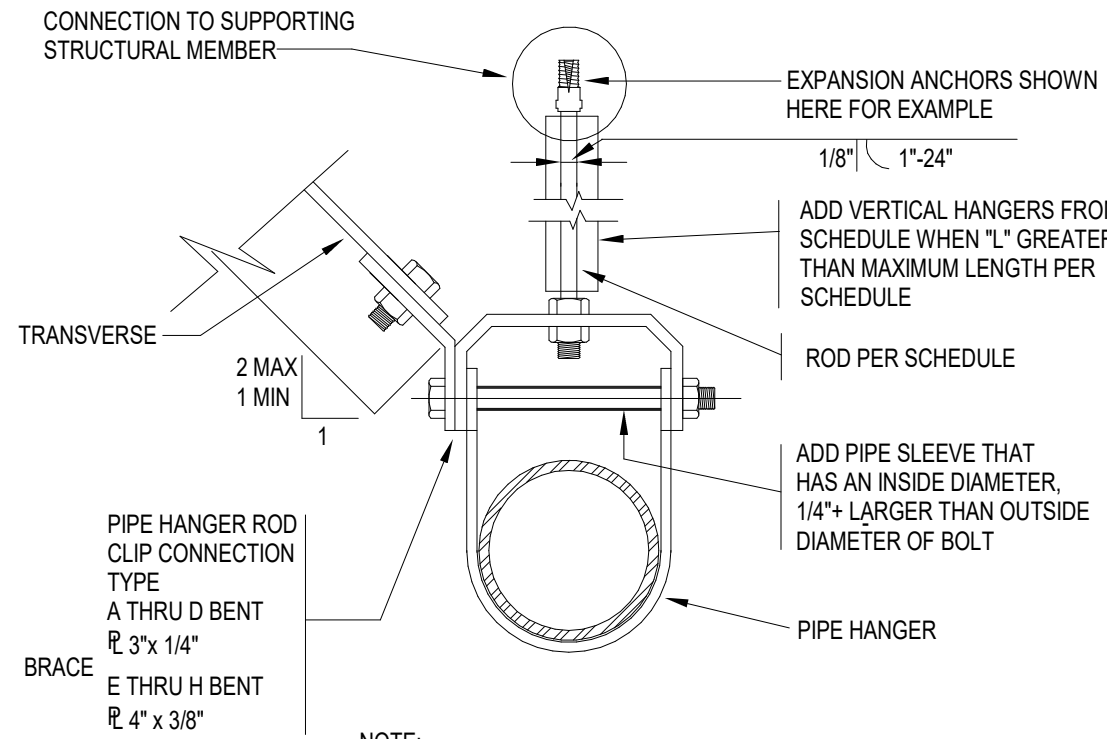
PIPE SIZE (IN.)	MAX. WT. (lbs per foot)	VERTICAL HANGERS	TRANSVERSE BRACES (CABLE SIZE)	LONGITUDINAL BRACES (CABLE SIZE)	BOLT SIZE	CONNECTION TYPE TO STRUCTURAL MEMBER	ROD SIZE (in.)	MAX. LENGTH FOR RODS
1 - 2-1/2	7.9	L2X2X16GA	L2-1/2x2-1/2X16GA (1/4\" CABLE)	L2-1/2x2-1/2X16GA (1/4\" CABLE)	3/8	A	1/2	25'
3	10.8	L2X2X16GA	L2-1/2x2-1/2X16GA (1/4\" CABLE)	L2-1/2x2-1/2X16GA (1/4\" CABLE)	3/8	A	1/2	25'
4	16.3	L2X2X16GA	L2-1/2x2-1/2X16GA (1/4\" CABLE)	L2-1/2x2-1/2X16GA (1/4\" CABLE)	3/8	A	5/8	31'

NOTE: SEE OVERALL DRAWINGS FOR EXACT BRACING LOCATIONS.



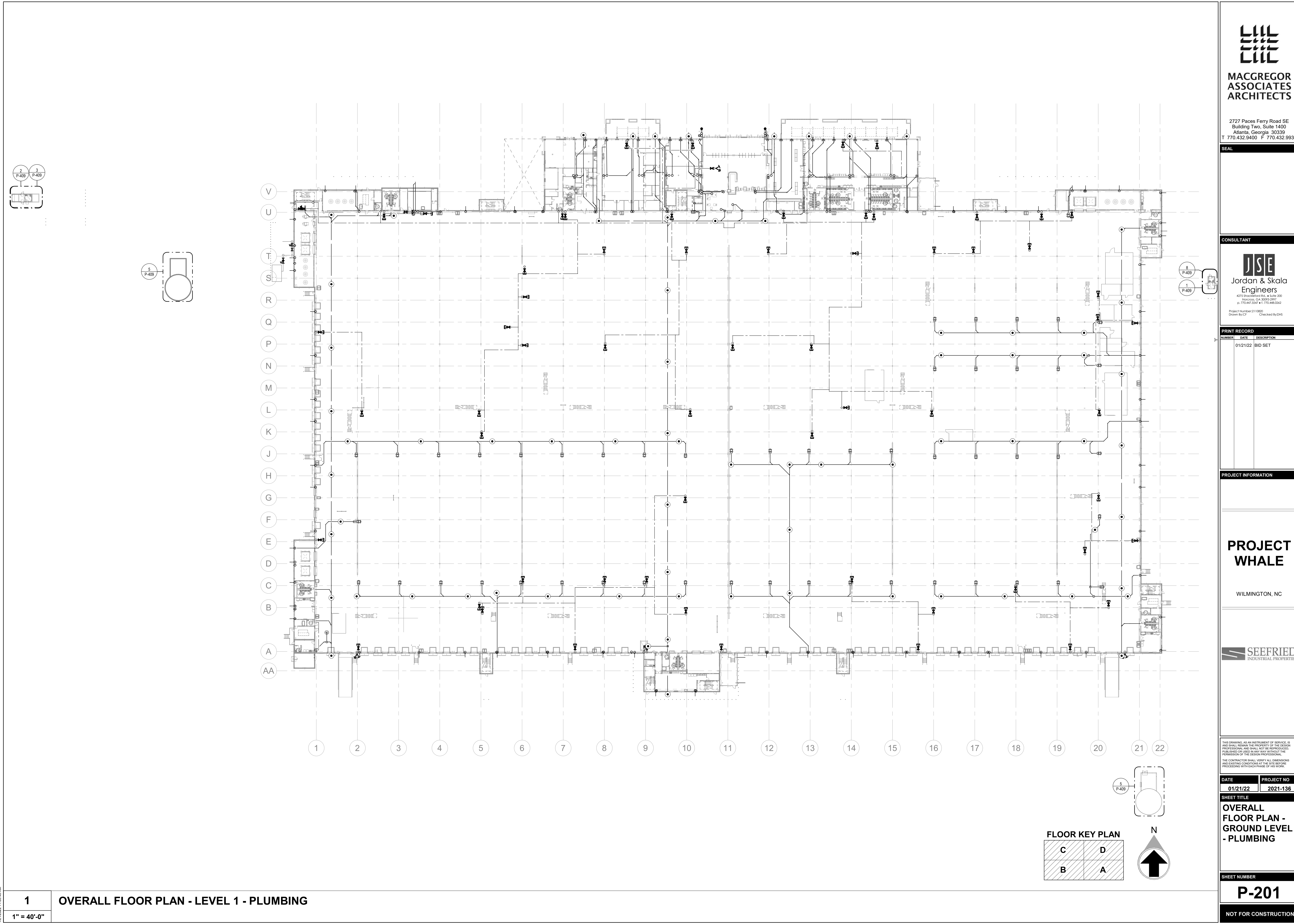
CONNECTIONS TO OPEN WEB STEEL JOIST

NOT TO SCALE



TRANSVERSE BRACING FOR PIPES

NOT TO SCALE



MACGREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala Engineers
4275 Brockmeier Rd. • Suite 200
Rossmore, CA 95055-2997
P 770.442.5544 F 770.442.0262
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DATE	PROJECT NO.
01/21/22	2021-136

SHEET TITLE

OVERALL FLOOR PLAN - GROUND LEVEL - PLUMBING

SHEET NUMBER

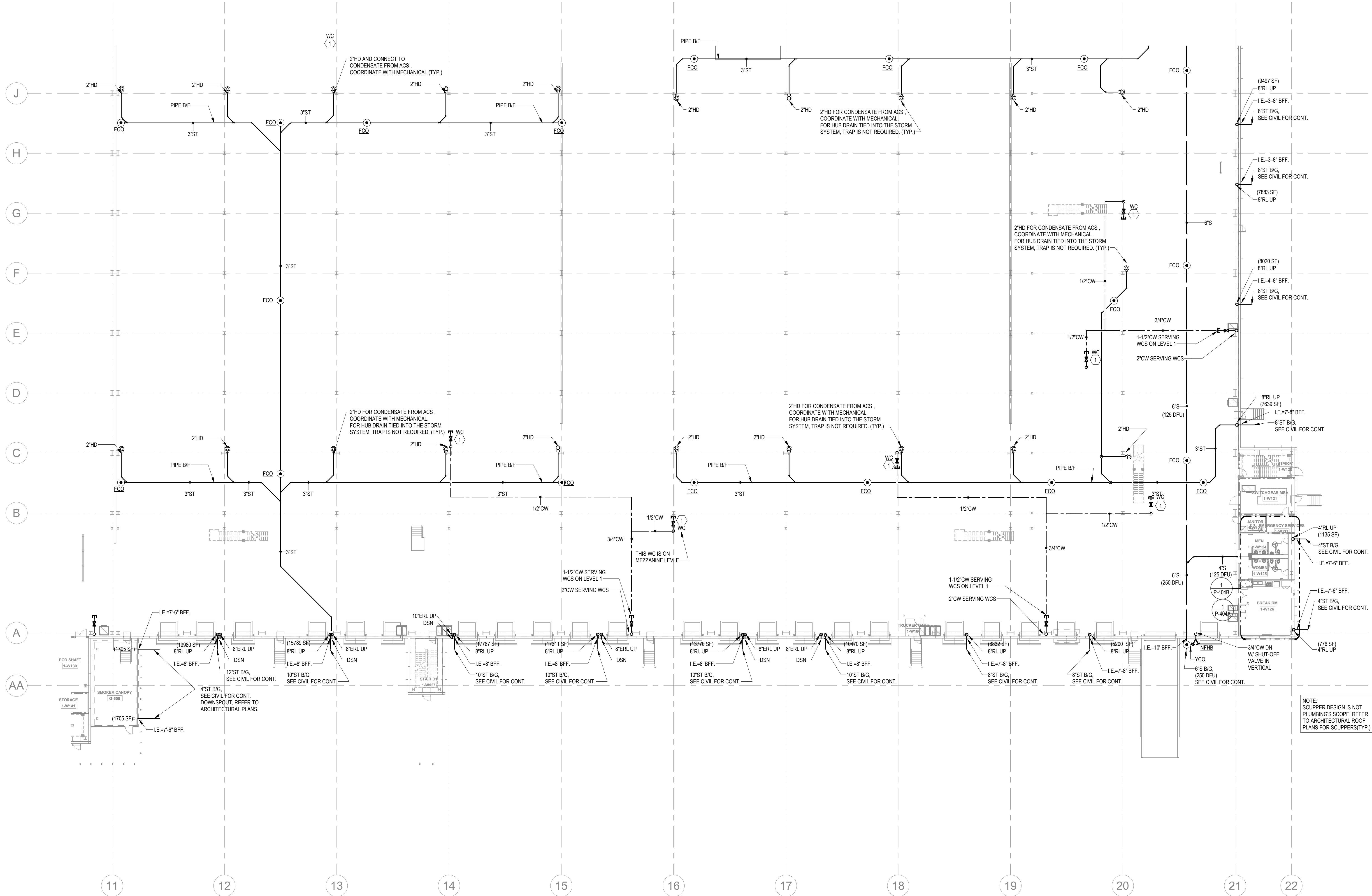
P-201

NOT FOR CONSTRUCTION

1/21/2022 10:52:22 AM

1
1" = 20'-0"

PARTIAL GROUND FLOOR - A - PLUMBING



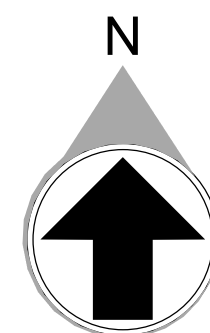
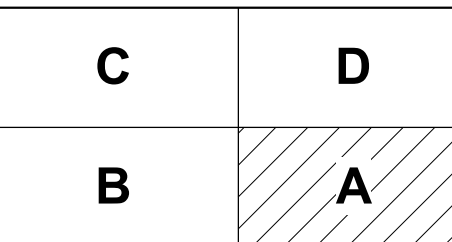
STORM DRAINAGE NOTES:
STORM PIPING & ROOF DRAINS ARE SIZED BASED ON 2018 NORTH CAROLINA PLUMBING CODE.
(PRIMARY ROOF DRAIN: BASED ON RAINFALL RATE OF 4.5" ONE-HOUR DURATION AND A 100-YEAR RETURN PERIOD;
SECONDARY ROOF DRAIN: BASED ON 100-YEAR, 15-MINUTE RAINFALL 8.5/HOUR).
ABOVE GROUND: OFFSET RAIN WATER LEADER AT ROOF 45-DEGREE ANGLE, WHILE MAINTAINING FLOOR CLEAR HEIGHT.
WHERE 45-DEGREE OFFSETS ARE NOT POSSIBLE, ALL HORIZONTAL STORM PIPING ABOVE GROUND SHALL SLOPE AT
1/4" PER FOOT, MINIMUM, DOWN.

NOTE:
DOWNSPOUT NOZZLE SHALL
BE INSTALLED AT 18" ABOVE
FINISHED GRADE U.O.N.

KEYNOTES

- 1 PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
- 2 PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Stockbridge Rd. • Suite 200
Rossmore, CA 95055-2997
P: 770.442.5542 • F: 770.442.0262
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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
PARTIAL
FLOOR PLAN -
GROUND LEVEL
A - PLUMBING

SHEET NUMBER

P-202

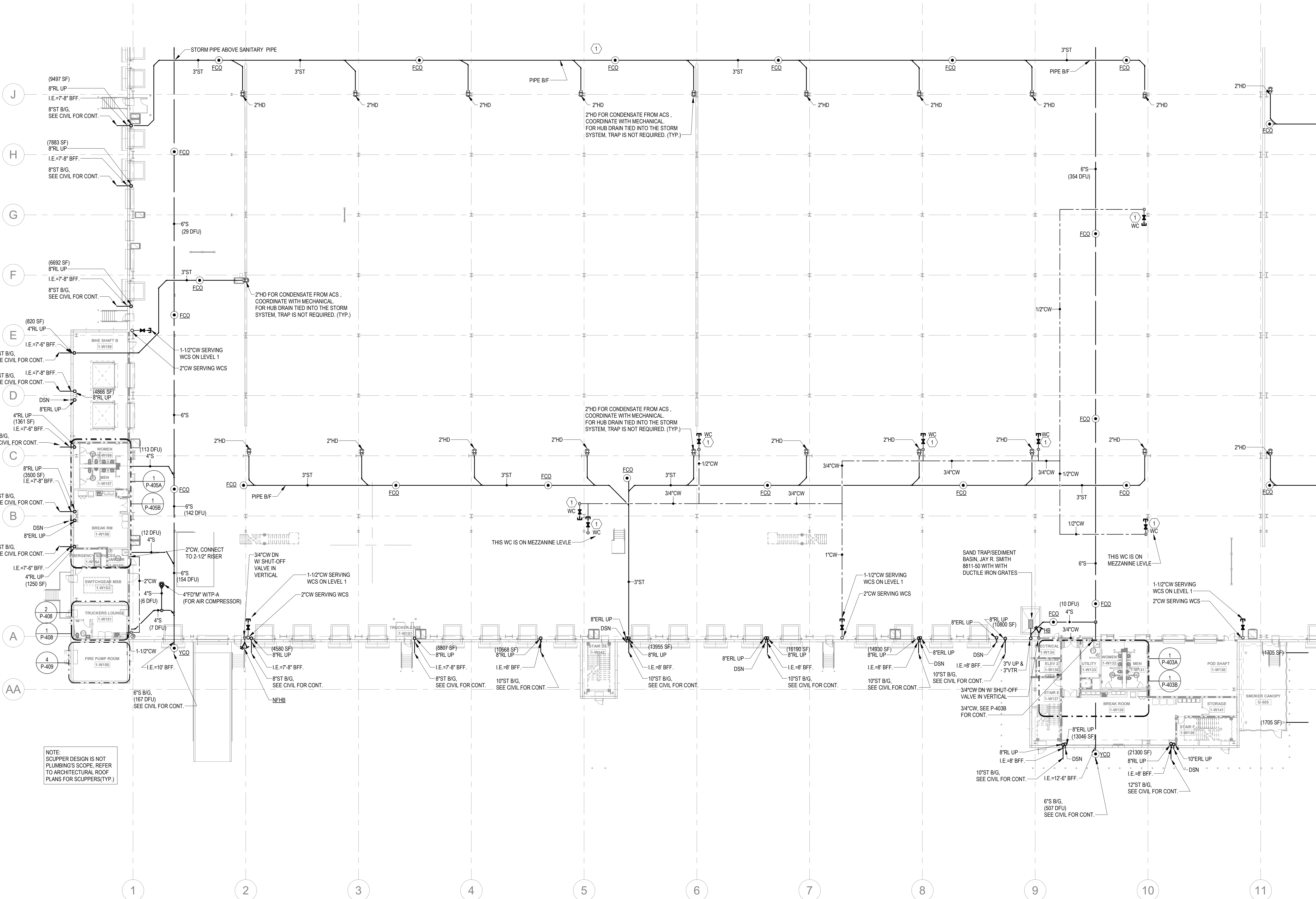
NOT FOR CONSTRUCTION

1/21/2022 10:52:35 AM

1

PARTIAL GROUND FLOOR - B - PLUMBING

1" = 20'-0"

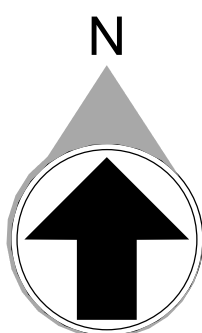


KEYNOTES

1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TSWANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Brockmead Rd., Suite 200
Rossmore, CA 95055-2997
P 770.442.5544 F 770.442.0242
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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

PARTIAL
FLOOR PLAN -
GROUND LEVEL
B - PLUMBING

SHEET NUMBER

P-203

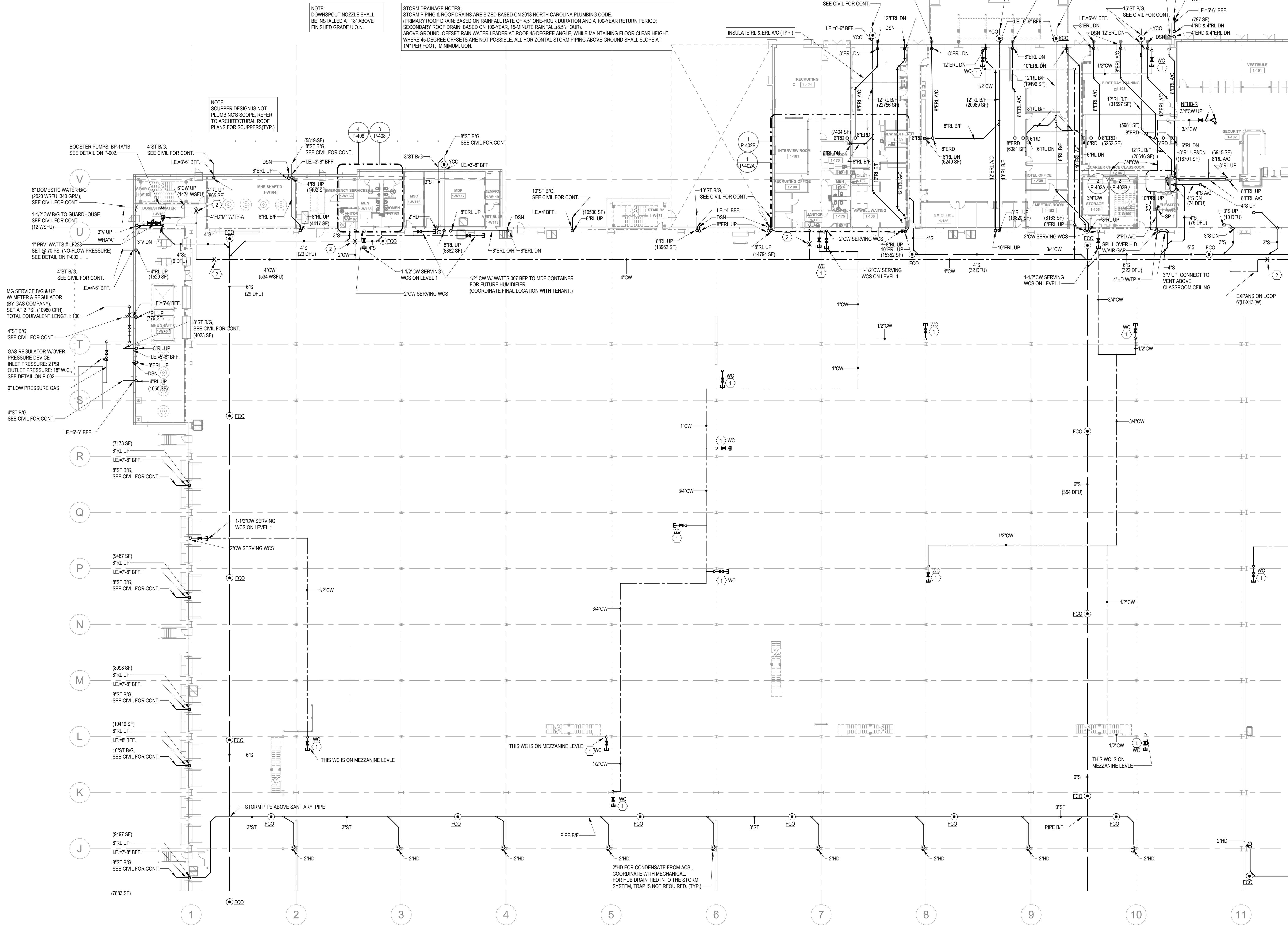
NOT FOR CONSTRUCTION

1/21/2022 10:52:59 AM

1

PARTIAL GROUND FLOOR - C - PLUMBING

1" = 20'-0"



KEYNOTES

- 1 PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
- 2 PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT

JSE
Jordan & Skala
Engineers

4275 Stockbridge Rd., Suite 200
Rossmore, GA 30095-2997
P 770.442.5544 F 770.442.0242

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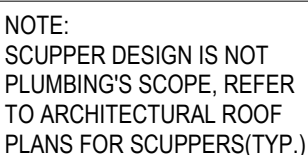
DATE PROJECT NO
01/21/22 2021-136

SHEET TITLE
PARTIAL
FLOOR PLAN -
GROUND LEVEL
C - PLUMBING

SHEET NUMBER

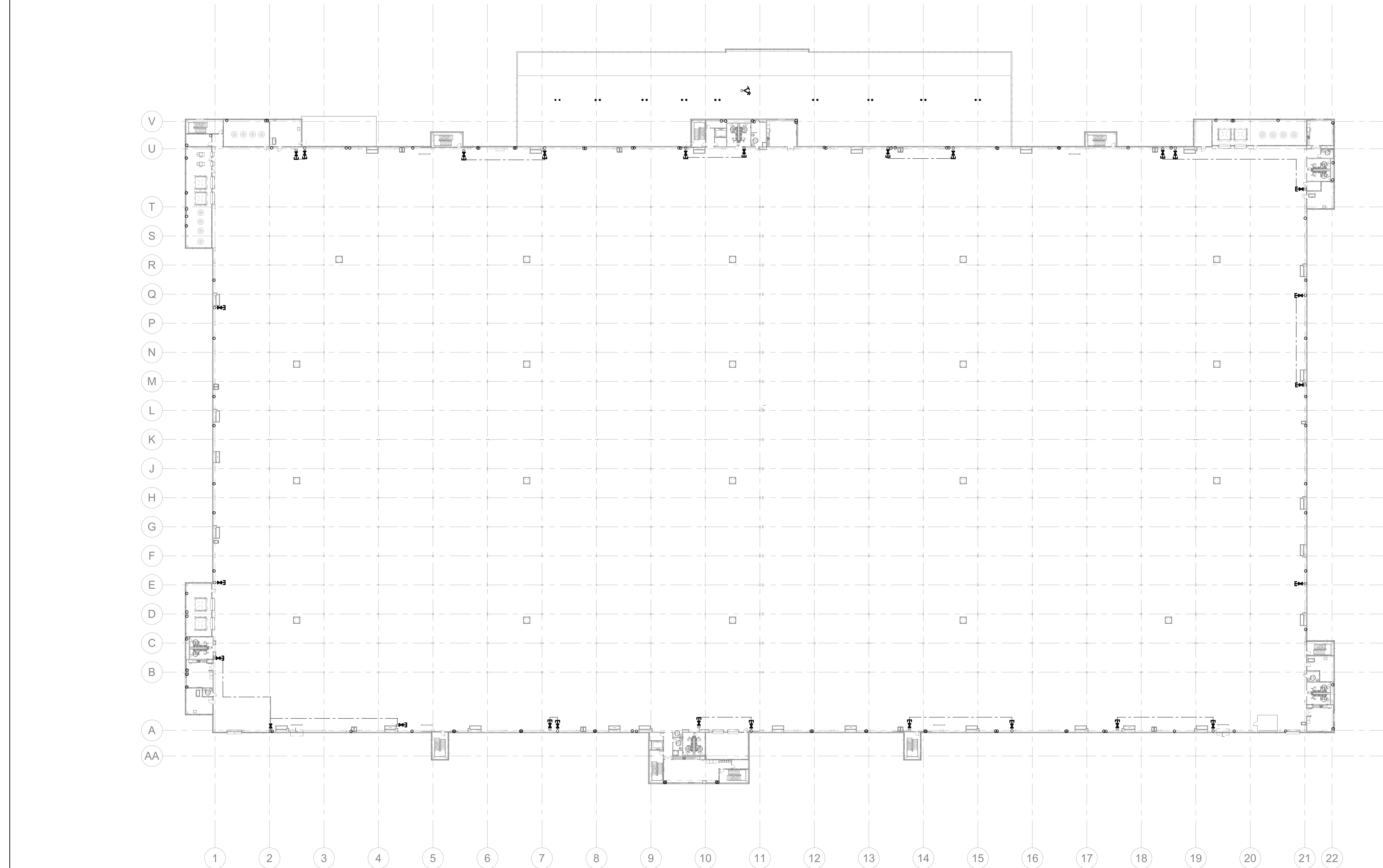
P-204

NOT FOR CONSTRUCTION



NOT FOR CONSTRUCTION

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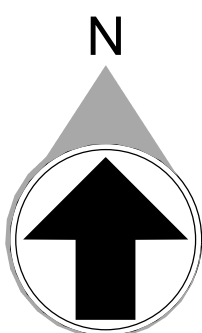


1
1" = 40'-0"

OVERALL FLOOR PLAN - LEVEL 2 - PLUMBING

FLOOR KEY PLAN

C	D
B	A



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ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

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Jordan & Skala
Engineers

4275 Stockbridge Rd. • Suite 200
Rossmore, CA 95053-2997
P 770.442.5544 F 770.442.0262
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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

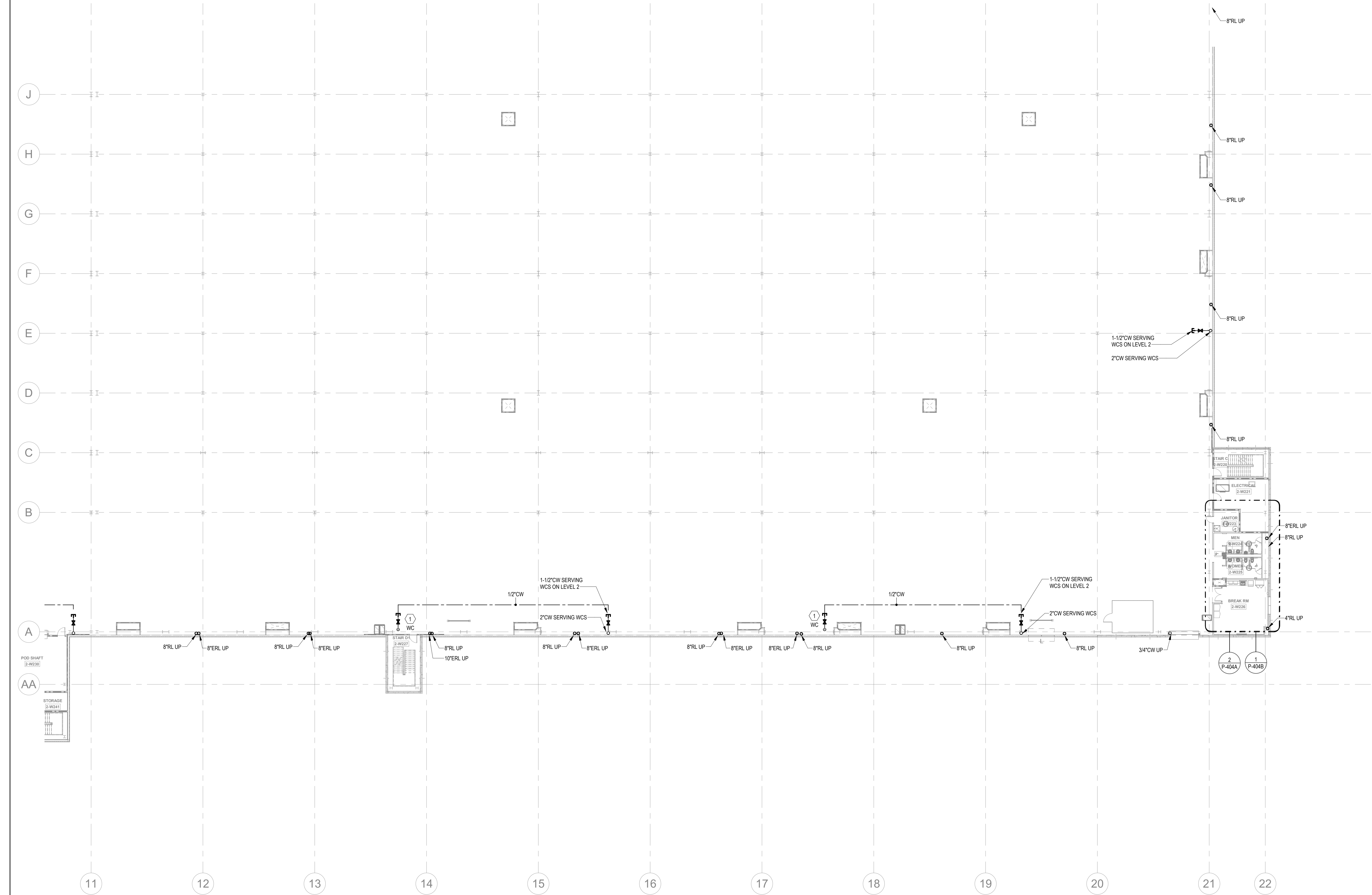
OVERALL
FLOOR PLAN -
LEVEL 2 -
PLUMBING

SHEET NUMBER

P-206

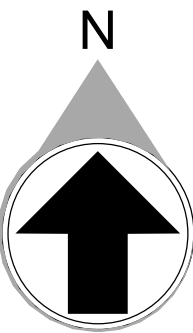
NOT FOR CONSTRUCTION

1/21/2022 10:53:32 AM



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A






MACGREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala Engineers

4275 Brockmead Rd. • Suite 200
Folsom, CA 95630-2997
P: 707.442.5542 • F: 707.442.0242


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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

PARTIAL FLOOR PLAN - LEVEL 2 A - PLUMBING

SHEET NUMBER

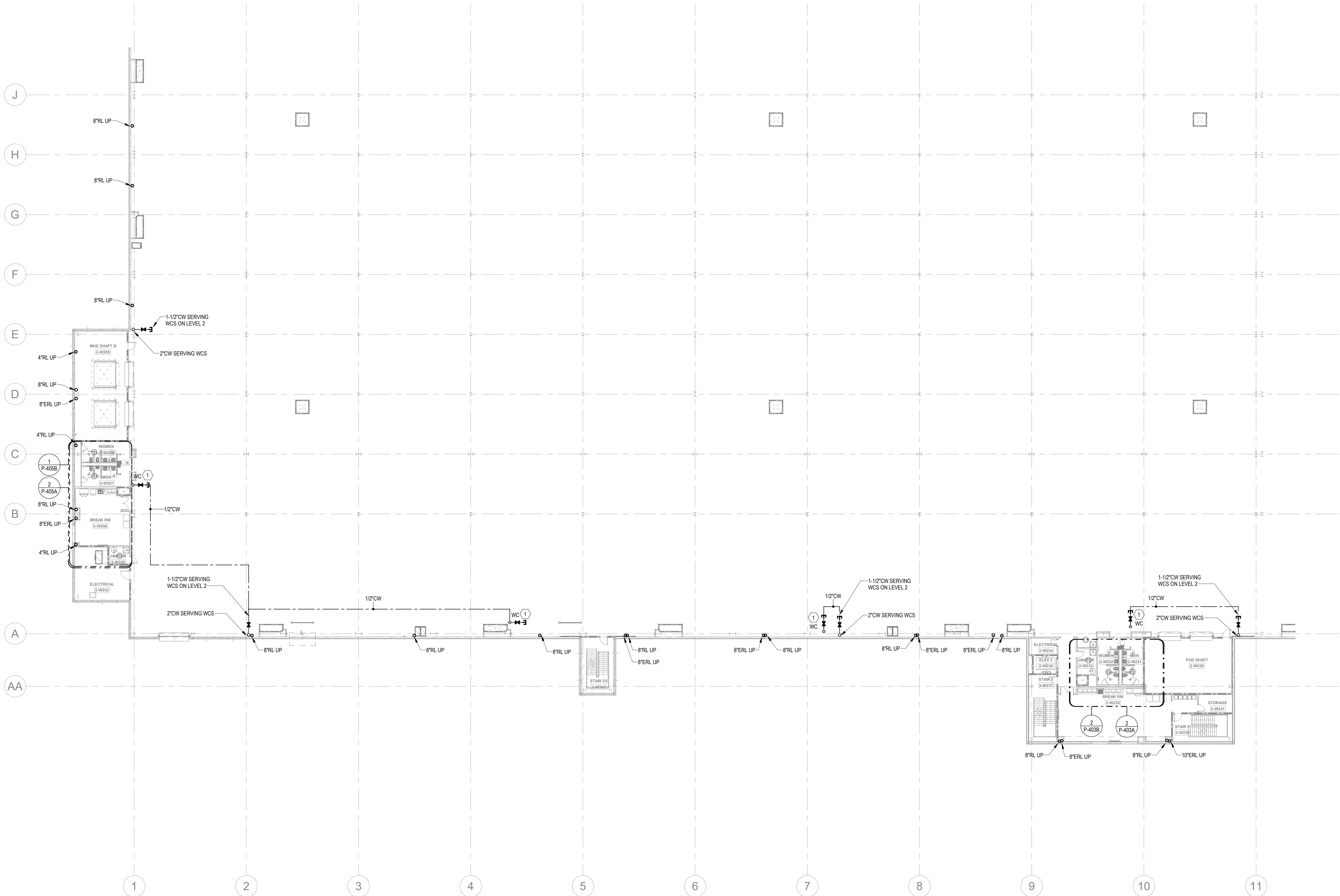
P-207

NOT FOR CONSTRUCTION

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1" = 20'-0"

PARTIAL FLOOR PLANS - LEVEL 2 - B - PLUMBING

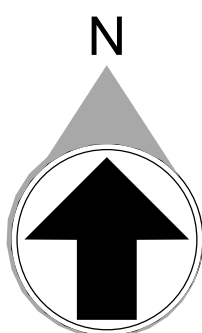


KEYNOTES

- 1 PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
- 2 PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockland Rd. • Suite 200
Rossmore, CA 95055-2997
P 770.442.5542 • F 770.442.0242

Project Number: 2110000 Checked By: DMS
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DATE	PROJECT NO
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SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 2 B -
PLUMBING

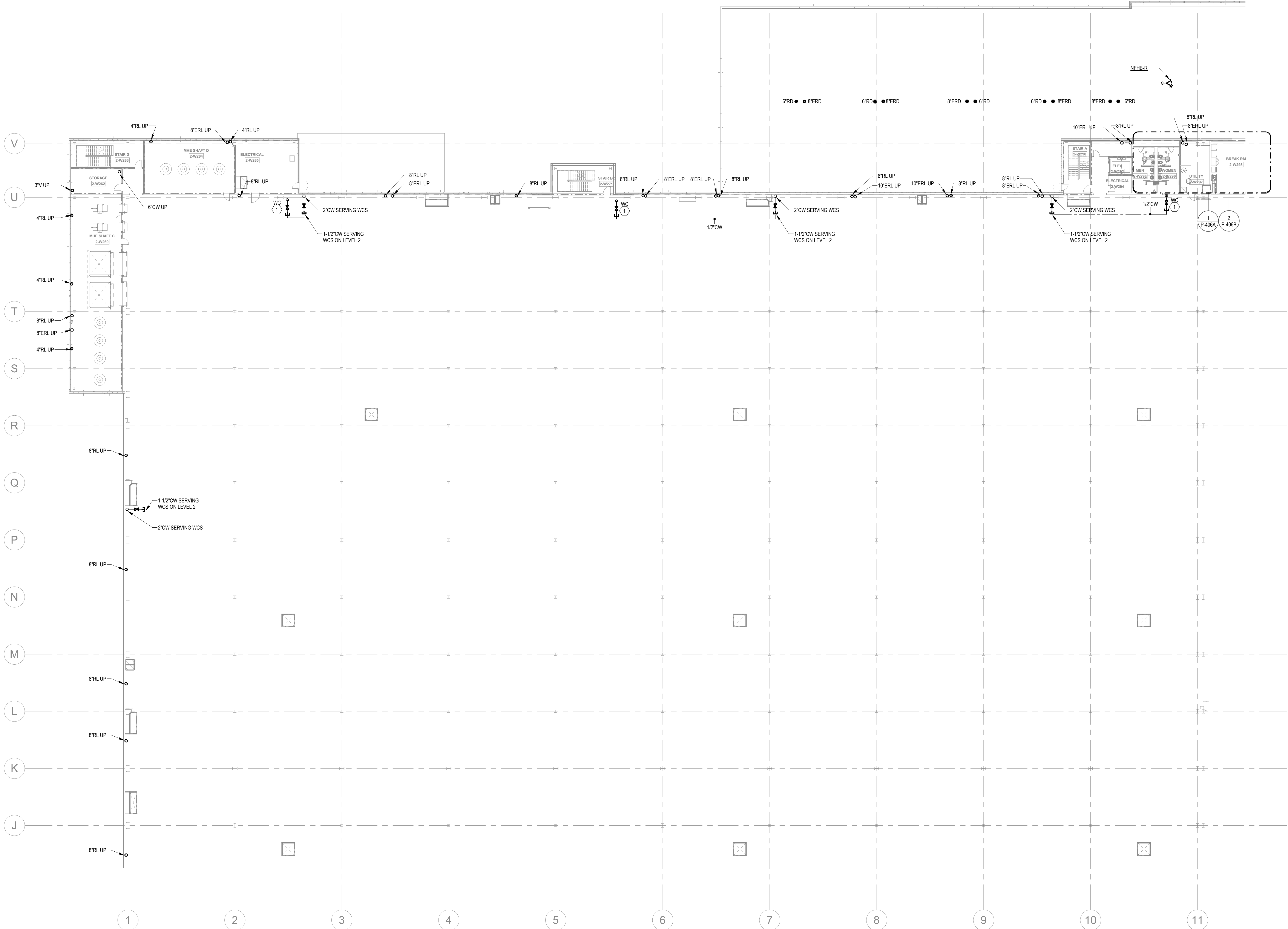
SHEET NUMBER

P-208

NOT FOR CONSTRUCTION

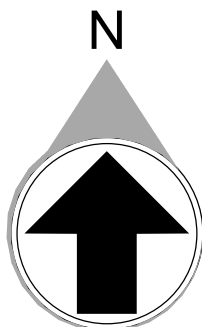
1/21/2022 10:53:54 AM

PARTIAL FLOOR PLANS - LEVEL 2 - C - PLUMBING



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A





MACGREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala Engineers

4275 Brockmeier Rd. • Suite 200
Folsom, CA 95630-2997
P 707.442.5544 • F 707.442.0242

Project Manager: D11000
Drawn By: C/F

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SHEET TITLE

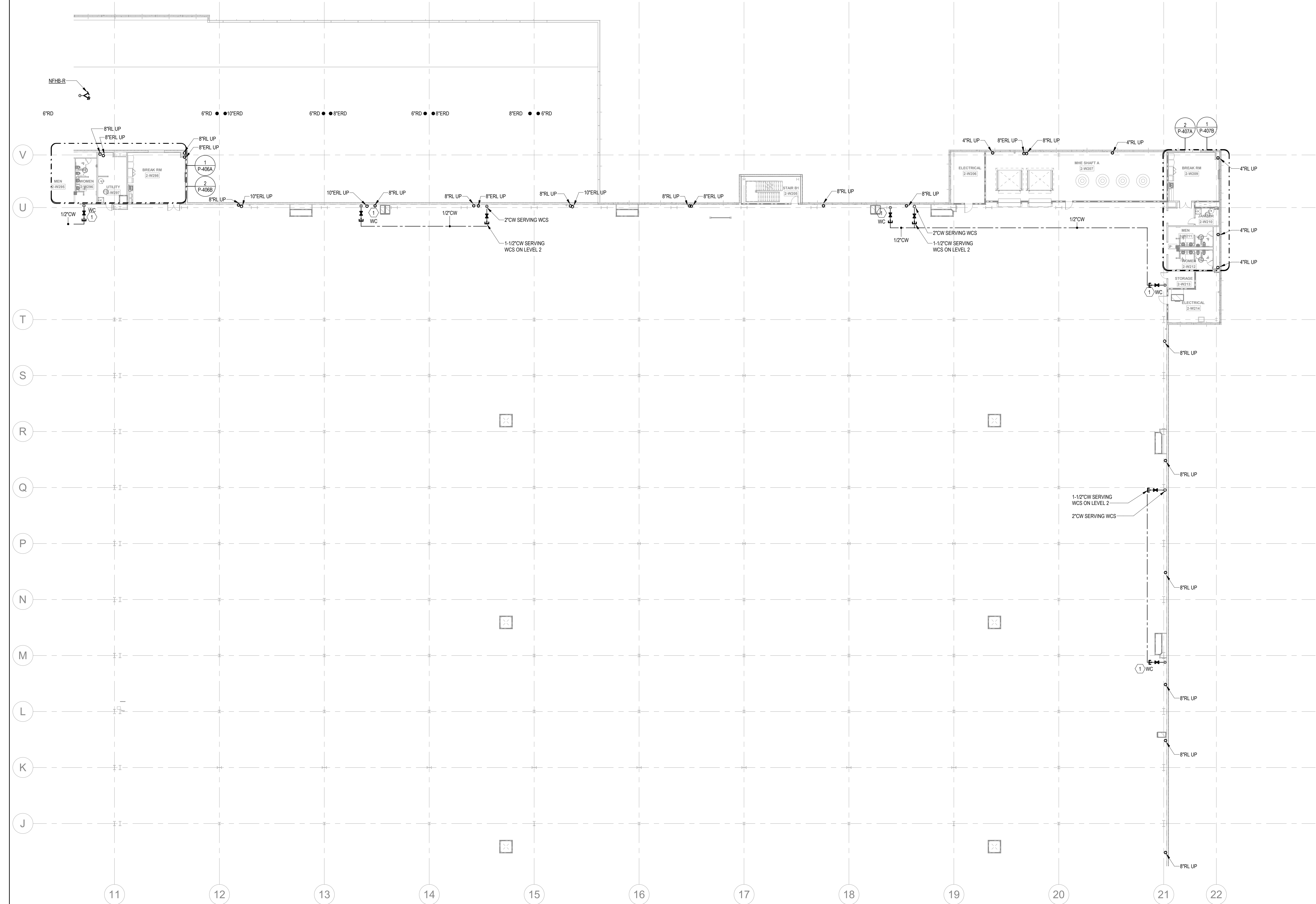
PARTIAL FLOOR PLAN - LEVEL 2 C - PLUMBING

SHEET NUMBER

P-209

NOT FOR CONSTRUCTION

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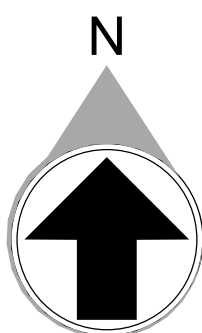


1 PARTIAL FLOOR PLANS - LEVEL 2 - D - PLUMBING

1" = 20'-0"

KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-205.

FLOOR KEY PLAN	
C	D
B	A



PRINT RECORD		
NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

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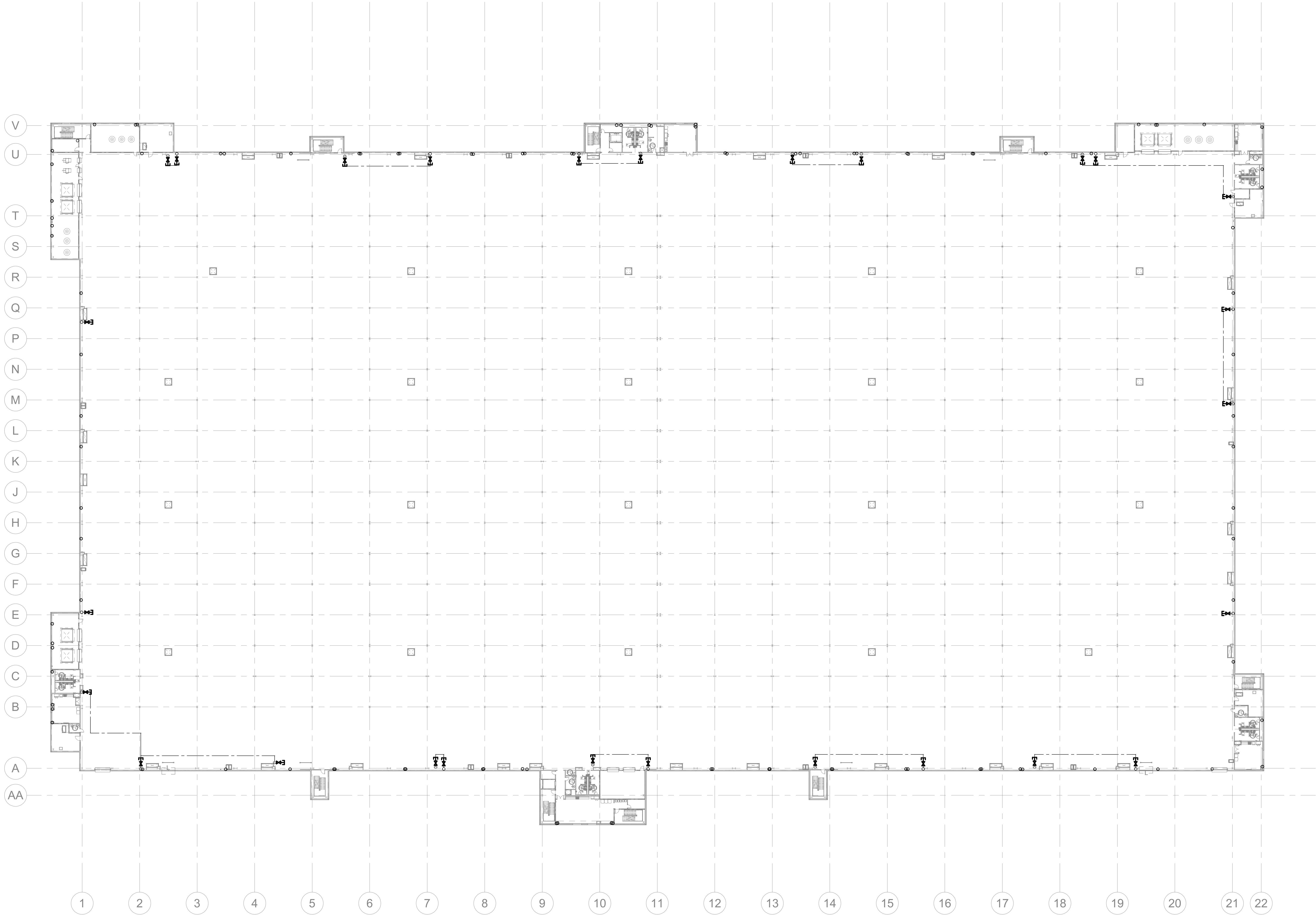
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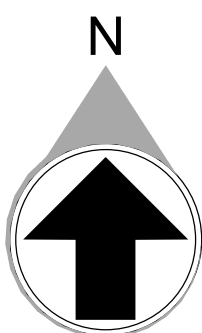
DATE	PROJECT NO
01/21/22	2021-136
SHEET TITLE	
PARTIAL FLOOR PLAN - LEVEL 2 D - PLUMBING	
SHEET NUMBER	
P-210	
NOT FOR CONSTRUCTION	

1/21/2022 10:56:17 AM



FLOOR KEY PLAN

C	D
B	A



NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

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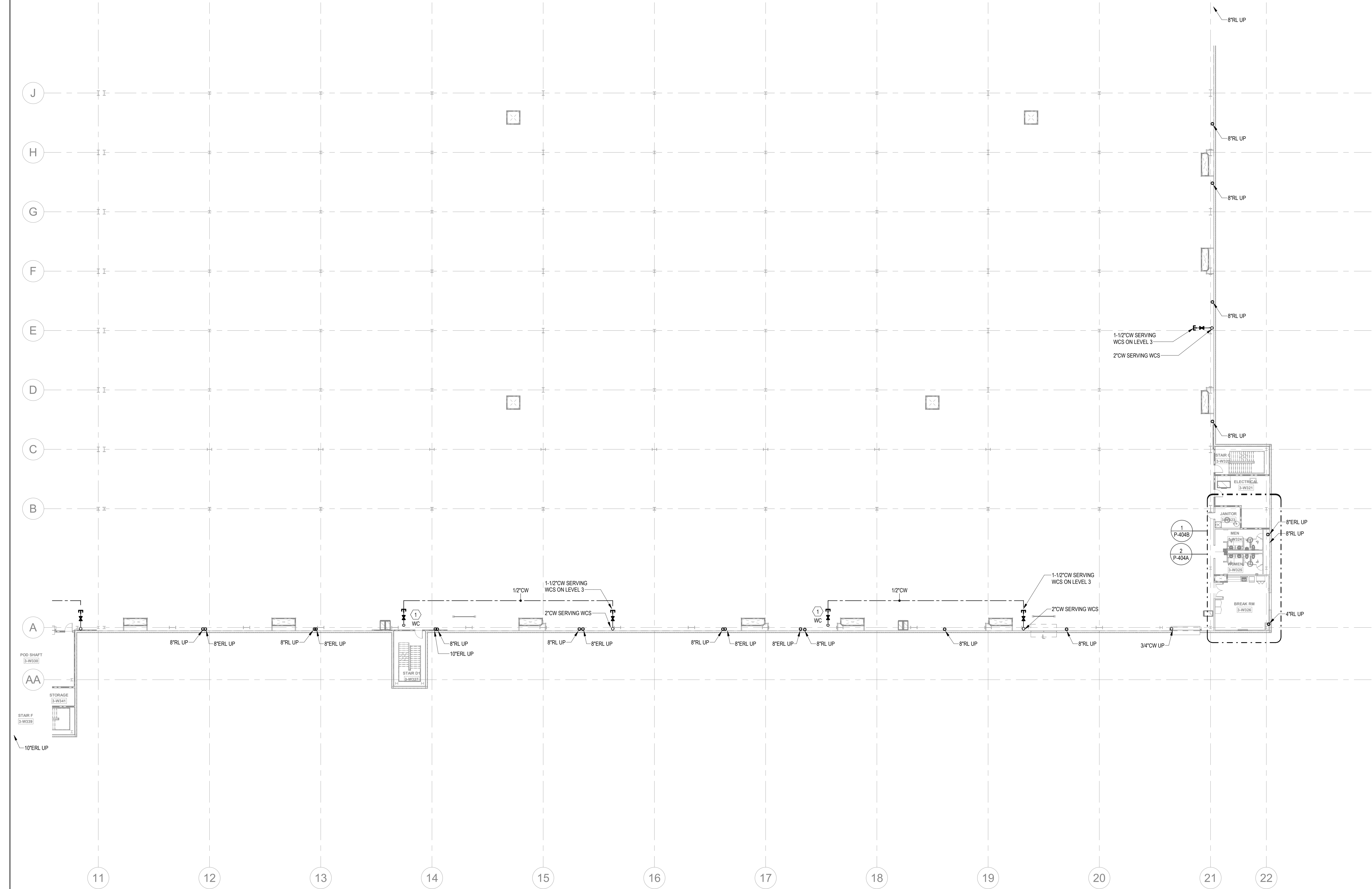
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DATE	PROJECT NO
01/21/22	2021-136

OVERALL FLOOR PLAN - LEVEL 3 - PLUMBING

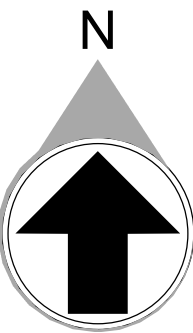
P-211

1/21/2022 10:54:28 AM



KEYNOTES	
1	PROVIDE 1/2\"/>
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmeier Rd. • Suite 200
Folsom, CA 95630-2997
P 709.442.5542 • F 709.442.0242

Project Number: 2110000 Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 3 A -
PLUMBING

SHEET NUMBER

P-212

NOT FOR CONSTRUCTION

1

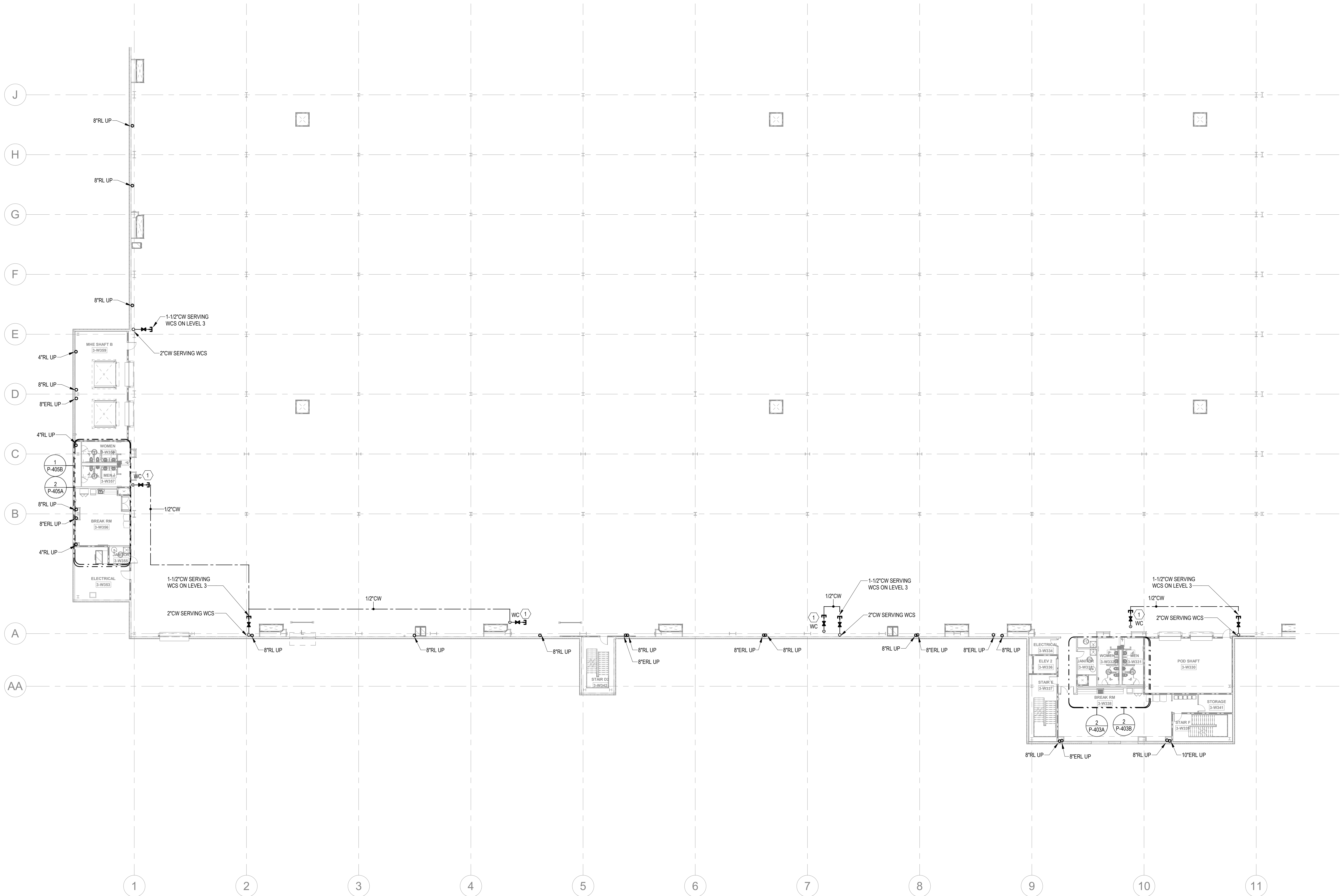
PARTIAL FLOOR PLANS - LEVEL 3 - A - PLUMBING

1" = 20'-0"

1/21/2022 10:54:58 AM

1
1" = 20'-0"

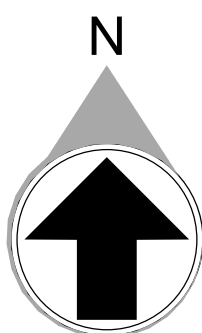
PARTIAL FLOOR PLANS - LEVEL 3 - B - PLUMBING



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Stockbridge Rd. • Suite 200
Roswell, GA 30095-2997
P 770.445.0541 F 770.445.0262
Project Number: 2110000 Checked By: DMS
Drawn By: CF

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NUMBER	DATE	DESCRIPTION
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

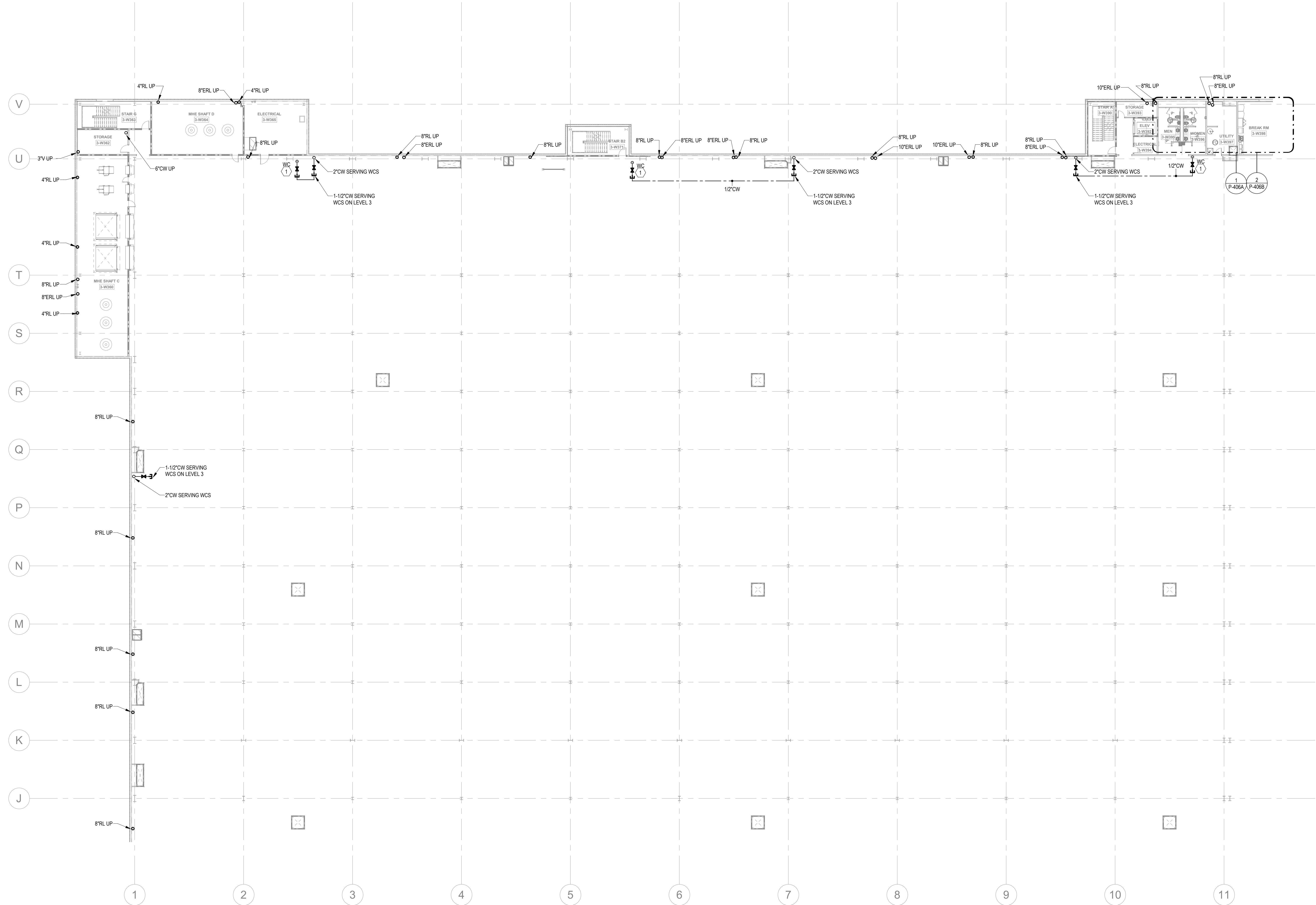
PARTIAL
FLOOR PLAN -
LEVEL 3 B -
PLUMBING

SHEET NUMBER

P-213

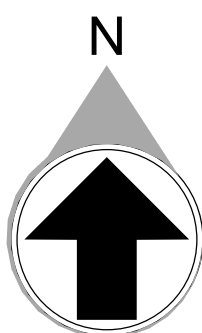
NOT FOR CONSTRUCTION

1/21/2022 10:54:49 AM



KEYNOTES	
1	PROVIDE 1/2\"/>
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A



1
1" = 20'-0"

PARTIAL FLOOR PLANS - LEVEL 3 - C - PLUMBING



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Stockbridge Rd. • Suite 200
Rossmore, CA 90093-2997
P: 770.442.5541 • F: 770.442.0242
Project Manager: J. Skala
Drawn By: JCF Checked By: JHS

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NUMBER	DATE	DESCRIPTION
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PROJECT INFORMATION

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01/21/22	2021-136

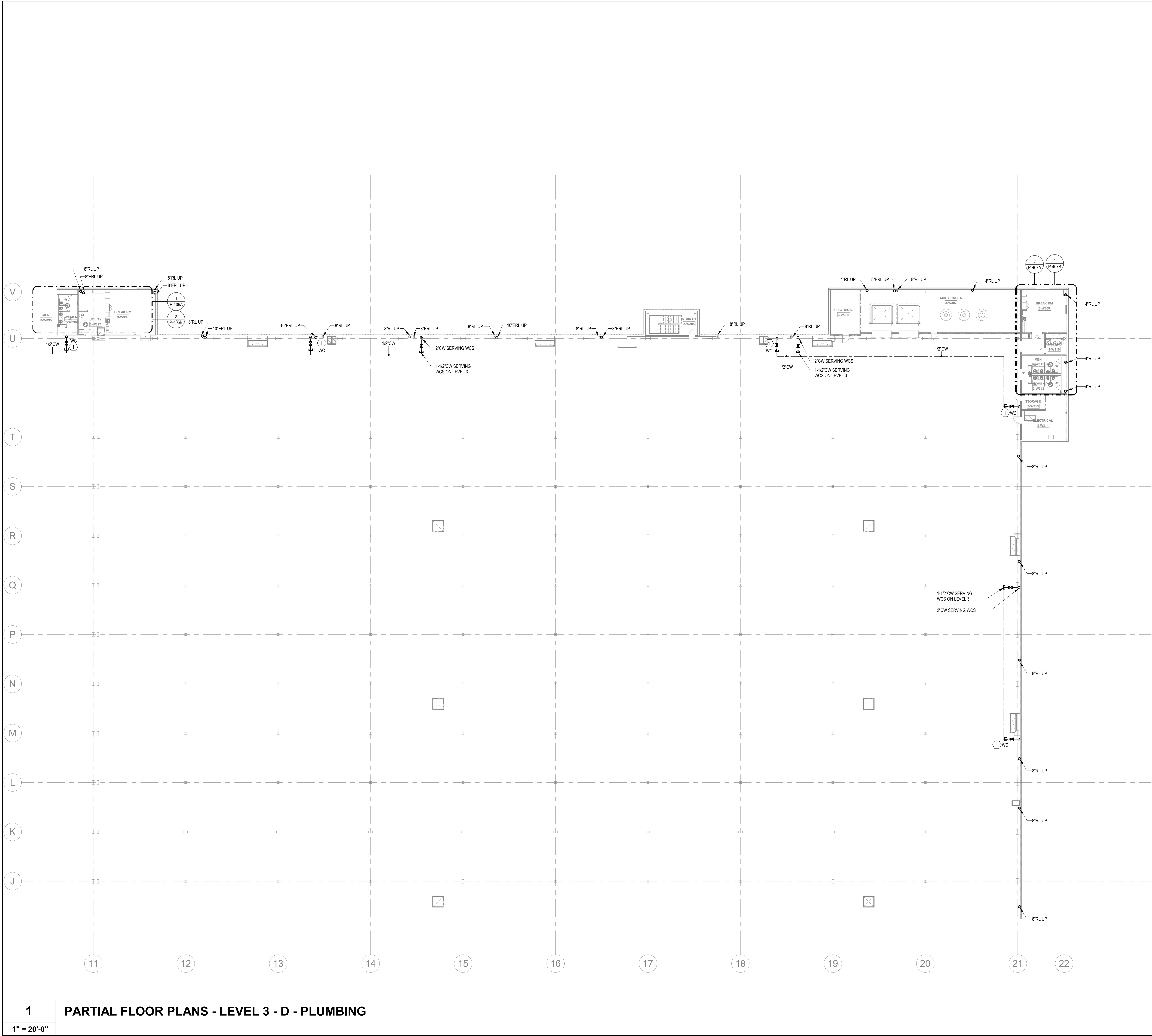
SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 3 C -
PLUMBING

SHEET NUMBER

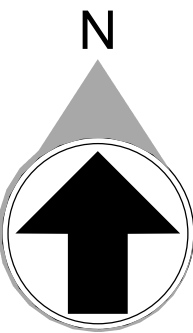
P-214

NOT FOR CONSTRUCTION

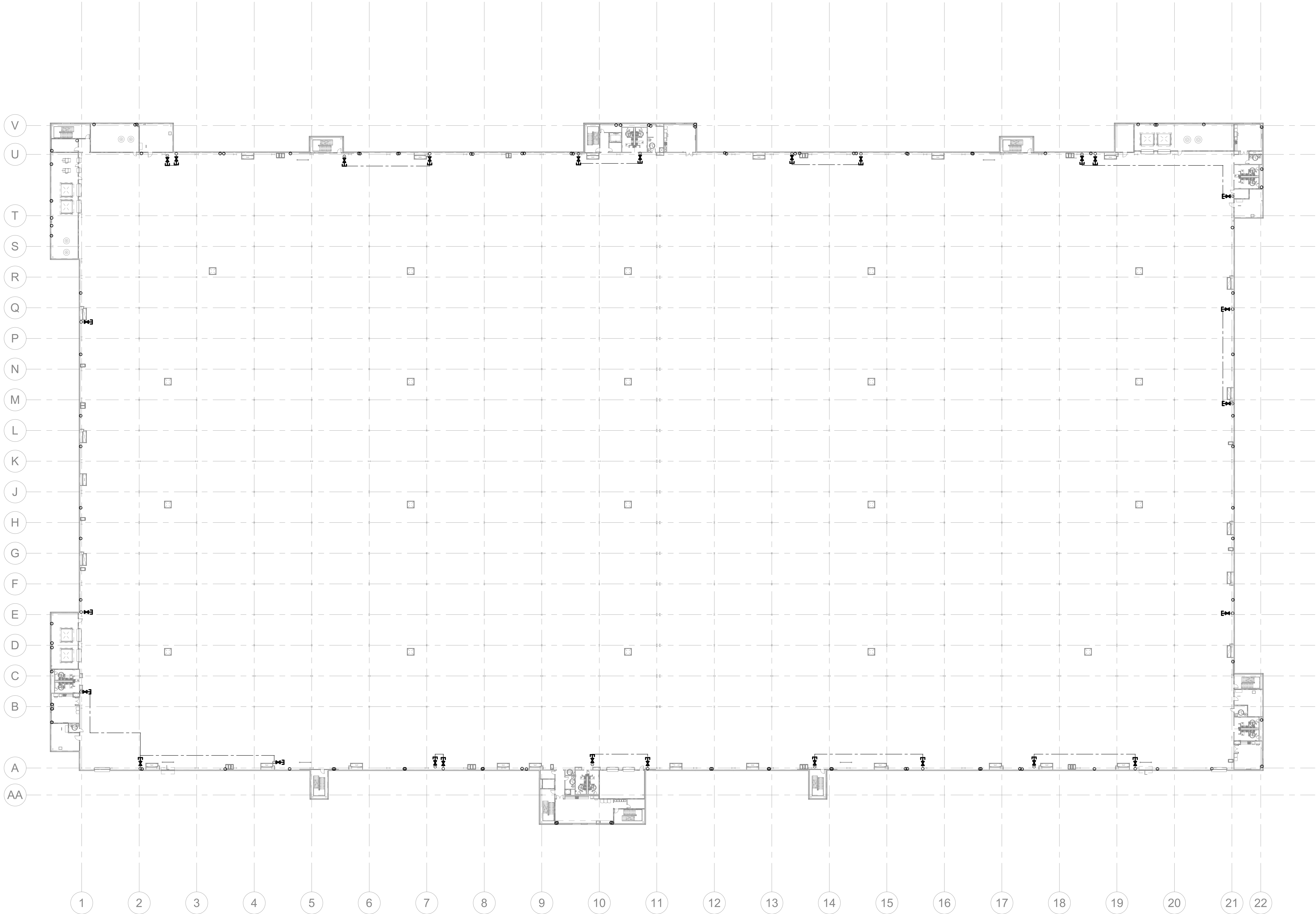


KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN	
C	D
B	A

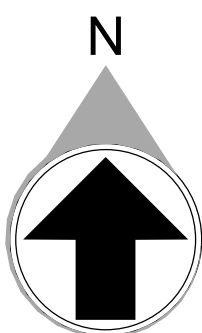


PRINT RECORD		
NUMBER	DATE	DESCRIPTION
01/21/22		BID SET



FLOOR KEY PLAN

C	D
B	A



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2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockwood Rd. • Suite 200
Folsom, CA 95630-2997
P 707.442.5542 F 707.442.0262

Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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01/21/22	BID SET
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO.
01/21/22	2021-136

SHEET TITLE

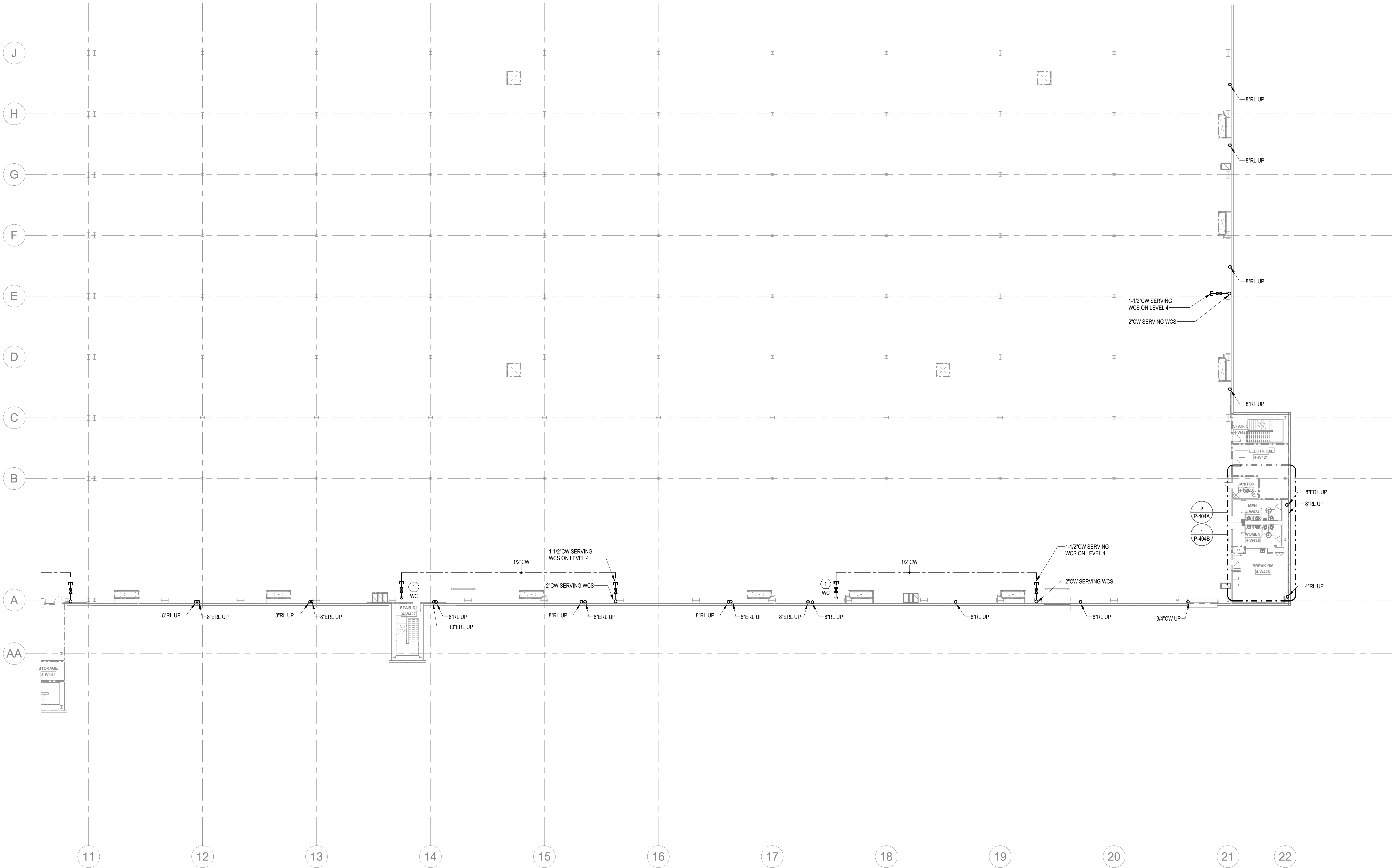
OVERALL
FLOOR PLAN -
LEVEL 4 -
PLUMBING

SHEET NUMBER

P-216

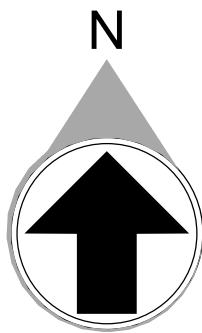
NOT FOR CONSTRUCTION

1/21/2022 10:55:21 AM



KEYNOTES	
1	PROVIDE 1/2\"/>
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A



PRINT RECORD		
NUMBER	DATE	DESCRIPTION
01/21/22	BID SET	

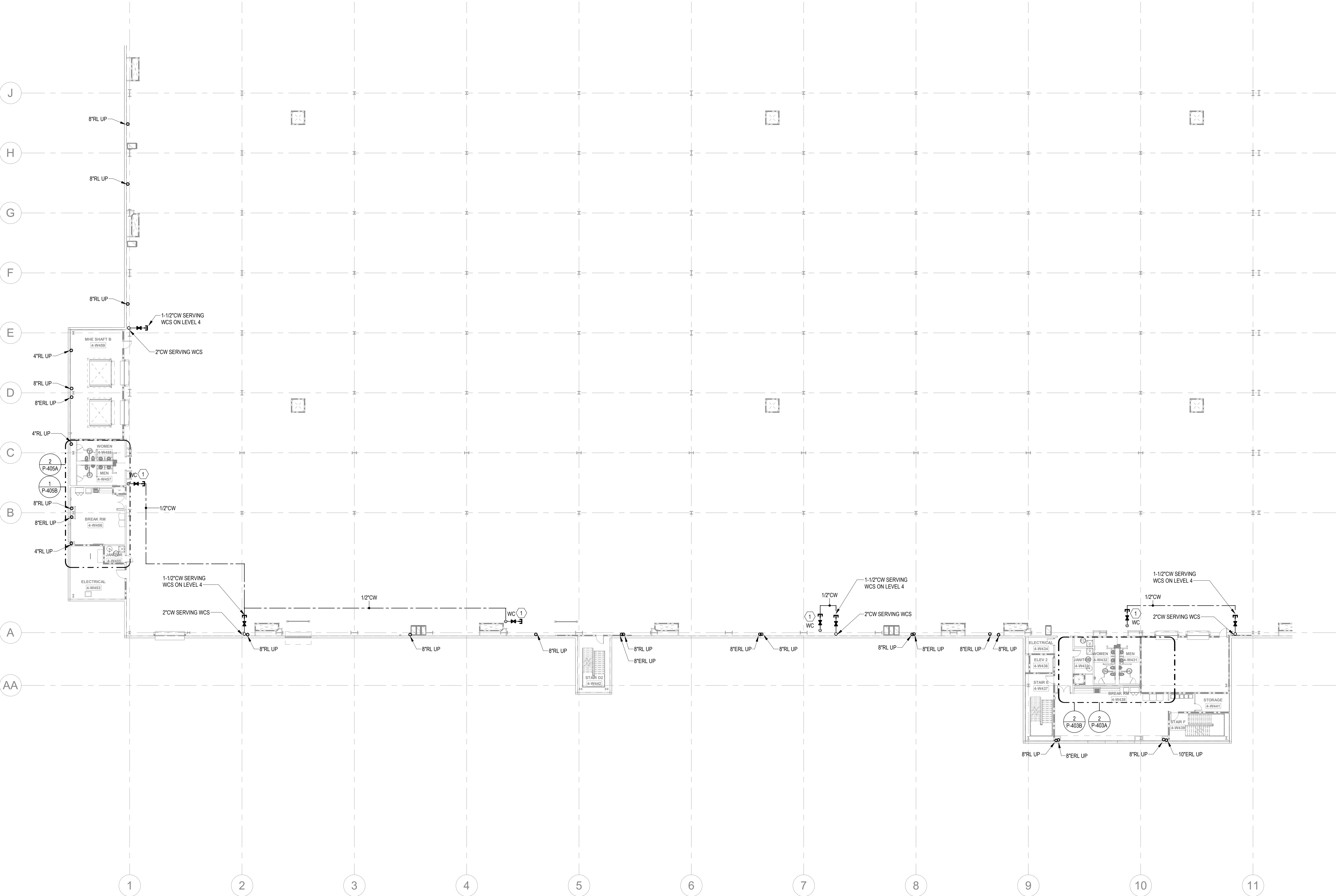
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DATE	PROJECT NO
01/21/22	2021-136

1/21/2022 10:55:31 AM

1
1" = 20'-0"

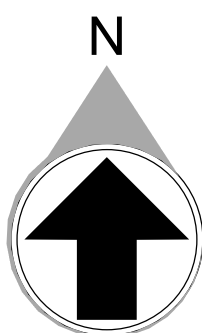
PARTIAL FLOOR PLANS - LEVEL 4 - B - PLUMBING



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmeier Rd., Suite 200
Folsom, CA 95630-2997
P 770.442.5542 F 770.442.0262

Project Number: 211000
Drawn By: CF Checked By: DHS

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NUMBER	DATE	DESCRIPTION
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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

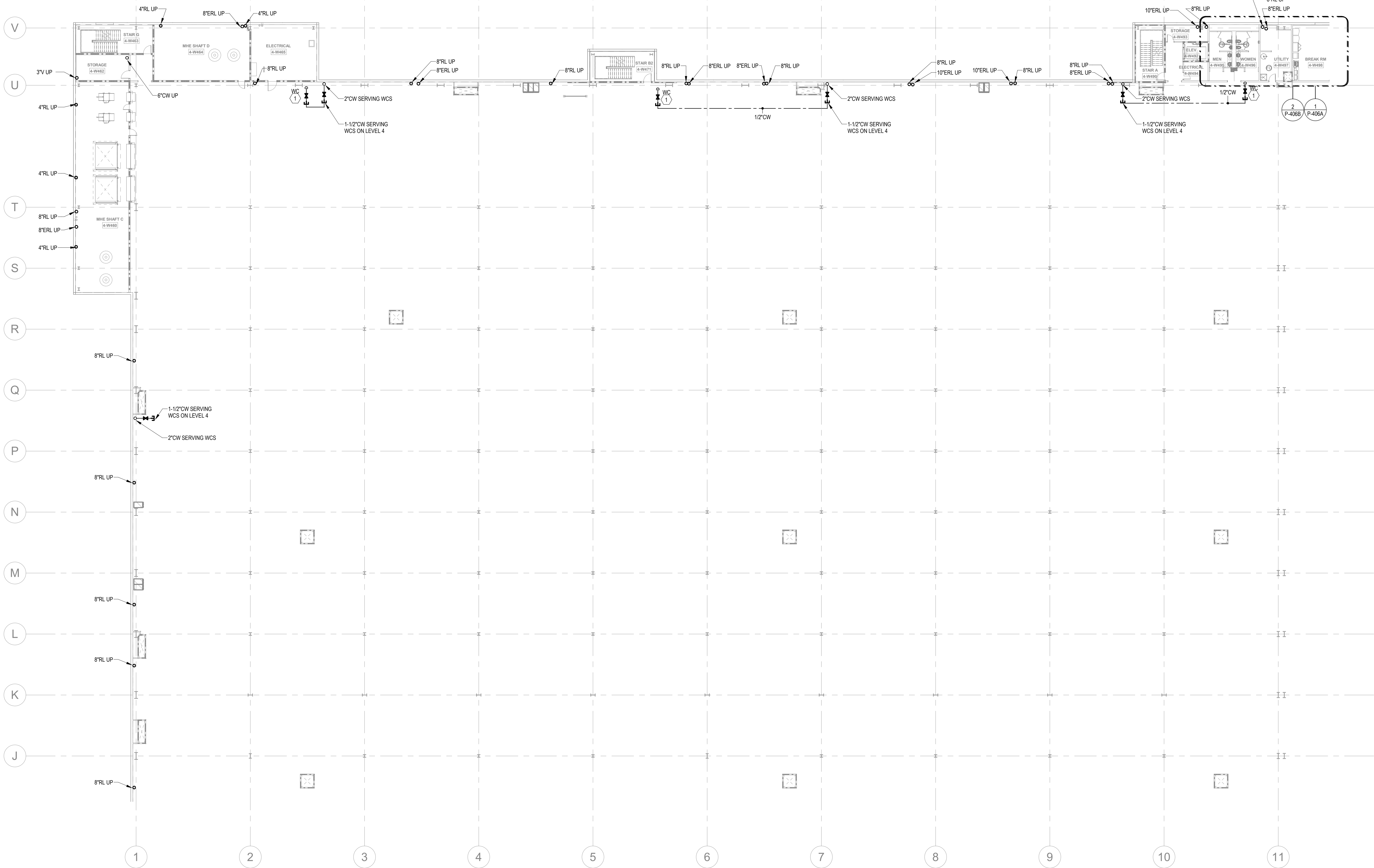
PARTIAL
FLOOR PLAN -
LEVEL 4 B -
PLUMBING

SHEET NUMBER

P-218

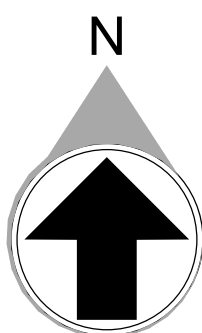
NOT FOR CONSTRUCTION

1/21/2022 10:55:42 AM



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-203.

FLOOR KEY PLAN	
C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmeier Rd. • Suite 200
Rossmore, CA 95053-2997
P 770.442.5242 • F 770.442.0242

Project Manager: J. Jordan
Drawn By: C.F. Checked By: D.H.S.

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NUMBER	DATE	DESCRIPTION
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO.
01/21/22	2021-136

SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 4 C -
PLUMBING

SHEET NUMBER

P-219

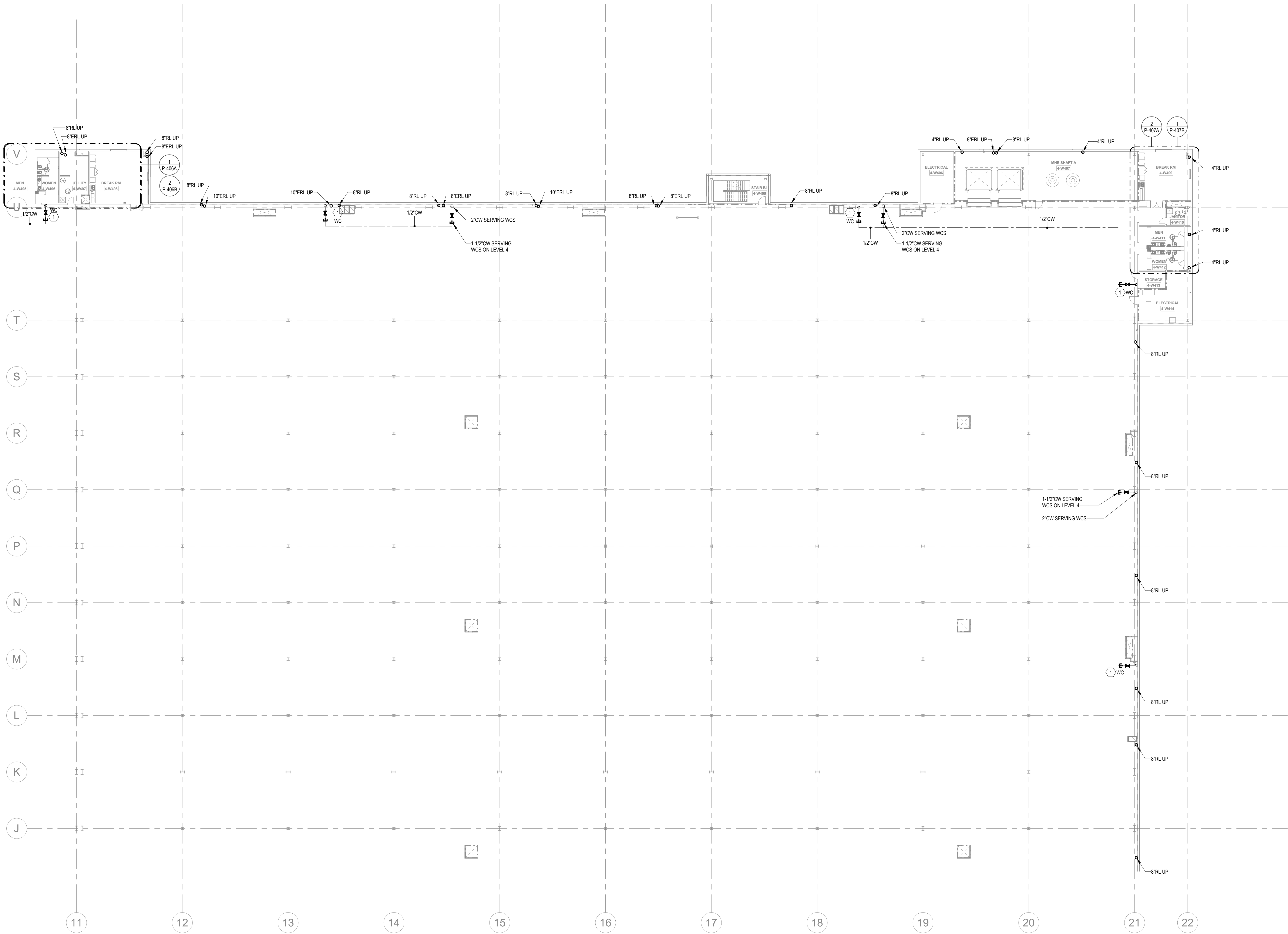
NOT FOR CONSTRUCTION

1

PARTIAL FLOOR PLANS - LEVEL 4 - C - PLUMBING

1" = 20'-0"

1/21/2022 10:55:51 AM



KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-205.



MACGREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT
JSE Jordan & Skala Engineers 4275 Stockbridge Rd., Suite 200 Rossmore, CA 95055-2997 P: 770.442.5242 F: 770.442.0242 Project Manager: J. Skala Drawn By: JCF Checked By: JHS

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NUMBER	DATE	DESCRIPTION
01/21/22	BID SET	

PROJECT INFORMATION
PROJECT WHALE
WILMINGTON, NC
SEEFRIED INDUSTRIAL PROPERTIES

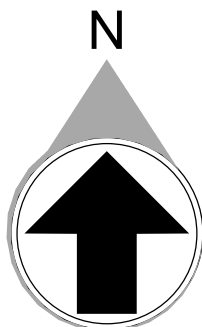
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DATE	PROJECT NO.
01/21/22	2021-136

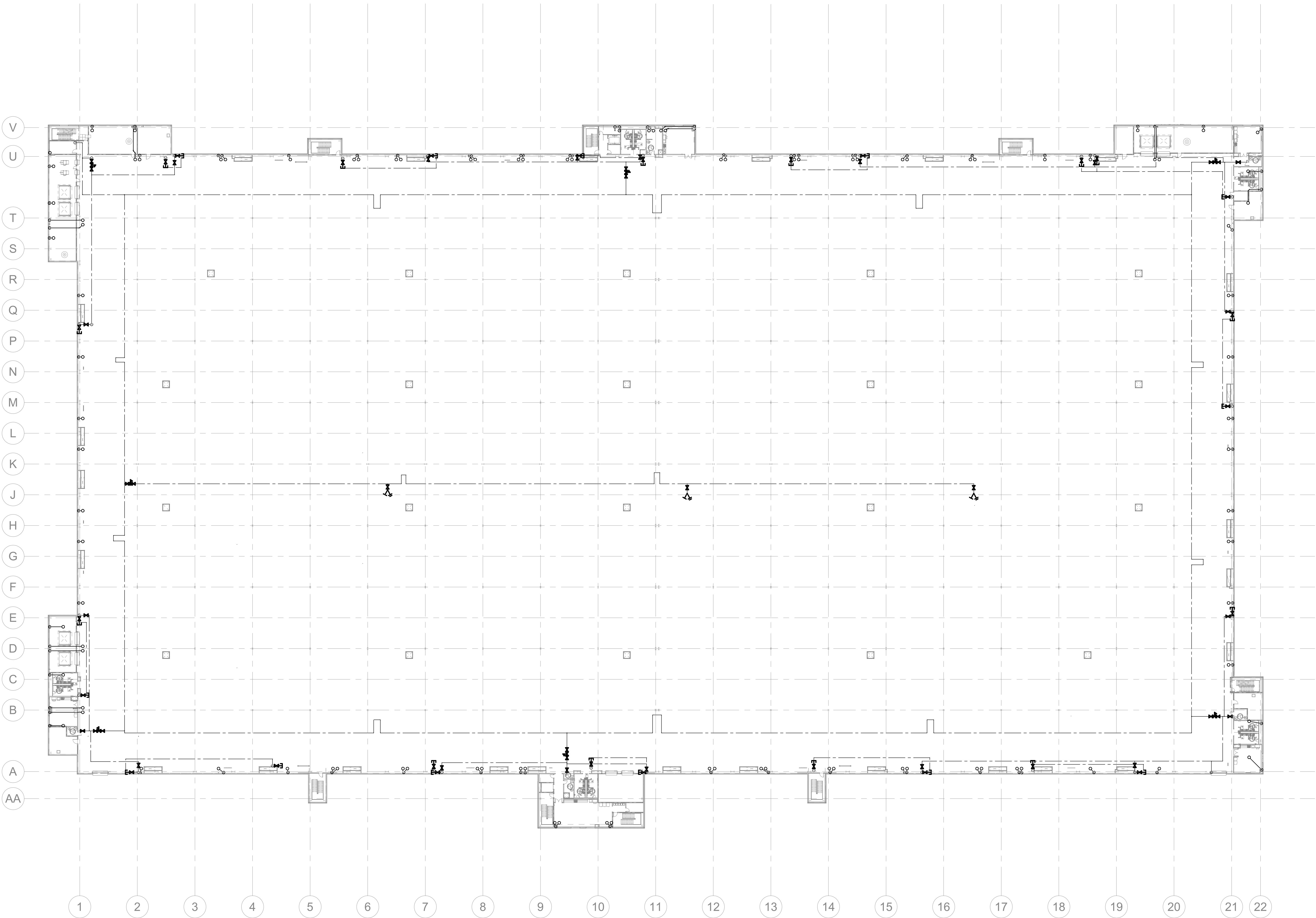
SHEET TITLE
PARTIAL FLOOR PLAN - LEVEL 4 D - PLUMBING

SHEET NUMBER
P-220
NOT FOR CONSTRUCTION

FLOOR KEY PLAN	
C	D
B	A



1/21/2022 10:56:03 AM

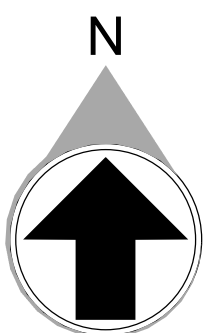


1
1" = 40'-0"

OVERALL FLOOR PLAN - LEVEL 5 - PLUMBING

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

SEAL

CONSULTANT

JSE
Jordan & Skala
Engineers
4275 Stockton Blvd. • Suite 200
Folsom, CA 95630-2997
P: 770.442.5542 • F: 770.442.0242
Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO.
01/21/22	2021-136

SHEET TITLE

OVERALL
FLOOR PLAN -
LEVEL 5 -
PLUMBING

SHEET NUMBER

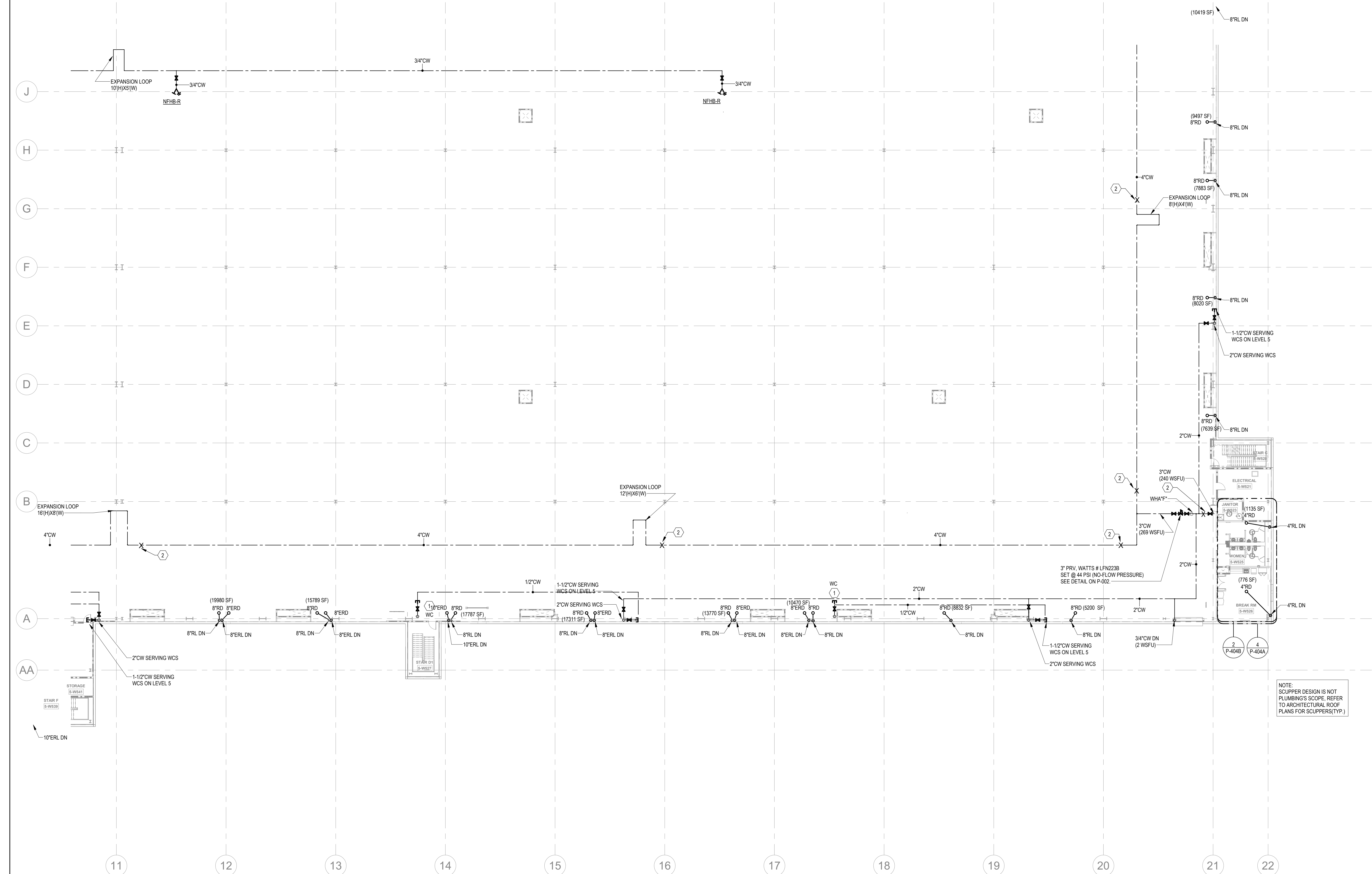
P-221

NOT FOR CONSTRUCTION

1/21/2022 10:56:15 AM

1
1" = 20'-0"

PARTIAL FLOOR PLANS - LEVEL 5 - A - PLUMBING



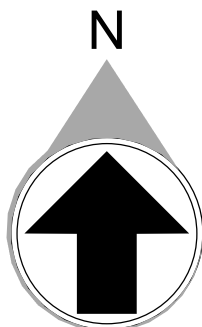
NOTE:
DOMESTIC WATER MAINS, VALVES & PRVS TO BE INSTALLED OUTSIDE OF THE ROBOTICS FIELD. COORDINATE ROUTING WITH CLEAR HEIGHT REQUIREMENTS AND ALL TRADES, INCLUDING MECHANICAL DUCT LOCATIONS.

STORM DRAINAGE NOTES:
STORM PIPING & ROOF DRAINS ARE SIZED BASED ON 2018 NORTH CAROLINA PLUMBING CODE.
(PRIMARY ROOF DRAIN: BASED ON RAINFALL RATE OF 4.5" ONE-HOUR DURATION AND A 100-YEAR RETURN PERIOD;
SECONDARY ROOF DRAIN: BASED ON 100-YEAR, 15-MINUTE RAINFALL(6.5"/HOUR).
ABOVE GROUND: OFFSET RAIN WATER LEADER AT ROOF 45-DEGREE ANGLE, WHILE MAINTAINING FLOOR CLEAR HEIGHT.
WHERE 45-DEGREE OFFSETS ARE NOT POSSIBLE, ALL HORIZONTAL STORM PIPING ABOVE GROUND SHALL SLOPE AT 1/4" PER FOOT, MINIMUM, UDN.

KEYNOTES	
1	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Brockmead Rd. • Suite 200
Folsom, CA 95630-2997
P: 770.442.5544 • F: 770.442.0242
Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 5 A -
PLUMBING

SHEET NUMBER

P-222

NOT FOR CONSTRUCTION

1/21/2022 10:58:37 AM

1

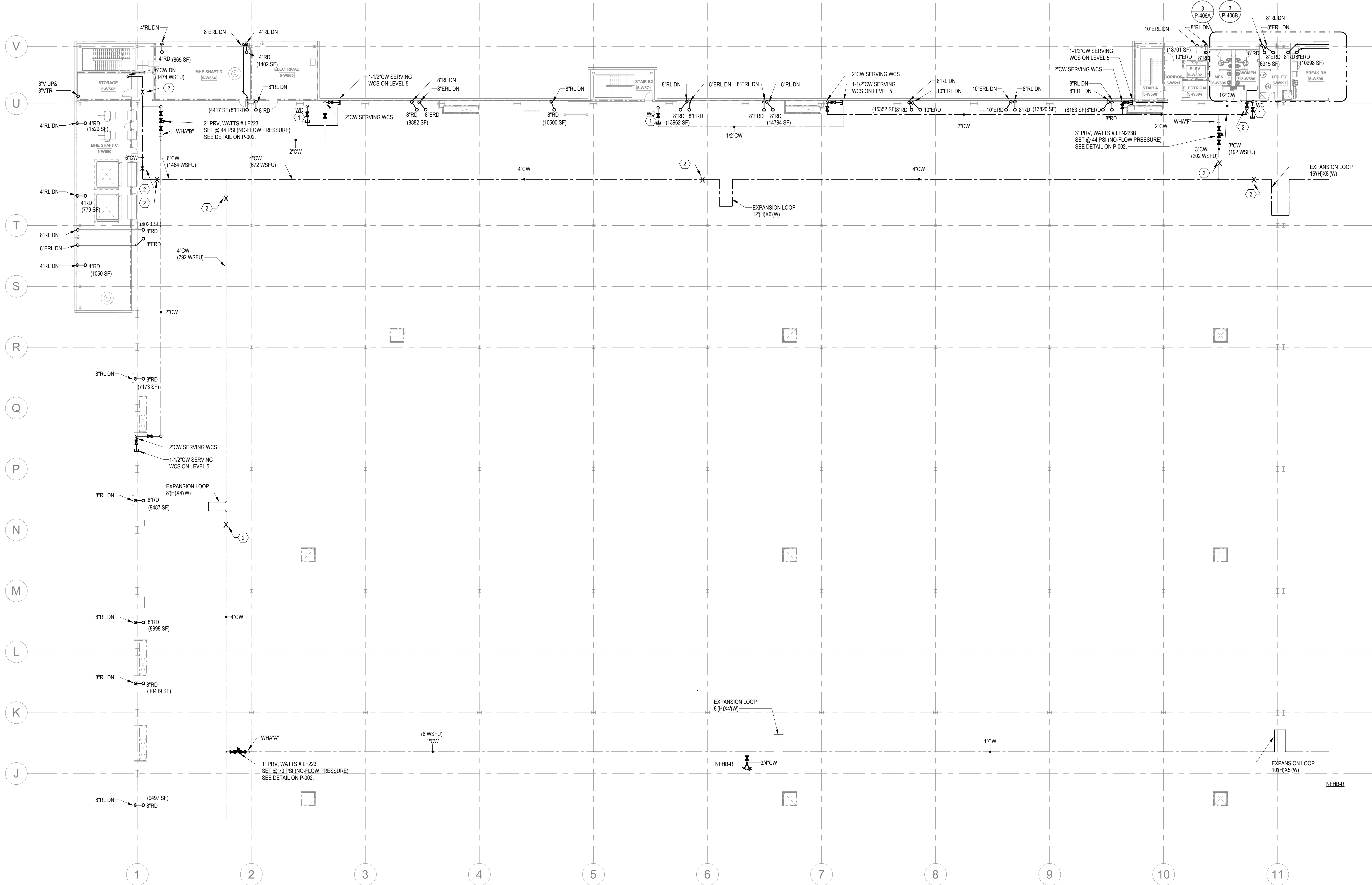
PARTIAL FLOOR PLANS - LEVEL 5 - C - PLUMBING

1" = 20'-0"

STORM DRAINAGE NOTES:
STORM PIPING & ROOF DRAINS ARE SIZED BASED ON 2018 NORTH CAROLINA PLUMBING CODE.
(PRIMARY ROOF DRAIN, BASED ON RAINFALL RATE OF 4.5" ONE-HOUR DURATION AND A 100-YEAR RETURN PERIOD;
SECONDARY ROOF DRAIN, BASED ON 100-YEAR, 15-MINUTE RAINFALL 8.5" HOUR).
ABOVE GROUND OFFSET RAIN WATER LEADER AT ROOF 45 DEGREE ANGLE, WHILE MAINTAINING FLOOR CLEAR HEIGHT.
WHERE 45 DEGREE OFFSETS ARE NOT POSSIBLE, ALL HORIZONTAL STORM PIPING ABOVE GROUND SHALL SLOPE AT
1/4" PER FOOT, MINIMUM, UDN.

NOTE:
DOMESTIC WATER MAINS, VALVES & PRVS TO BE INSTALLED OUTSIDE OF THE
ROBOTICS FIELD. COORDINATE ROUTING WITH CLEAR HEIGHT REQUIREMENTS
AND ALL TRADES, INCLUDING MECHANICAL DUCT LOCATIONS.

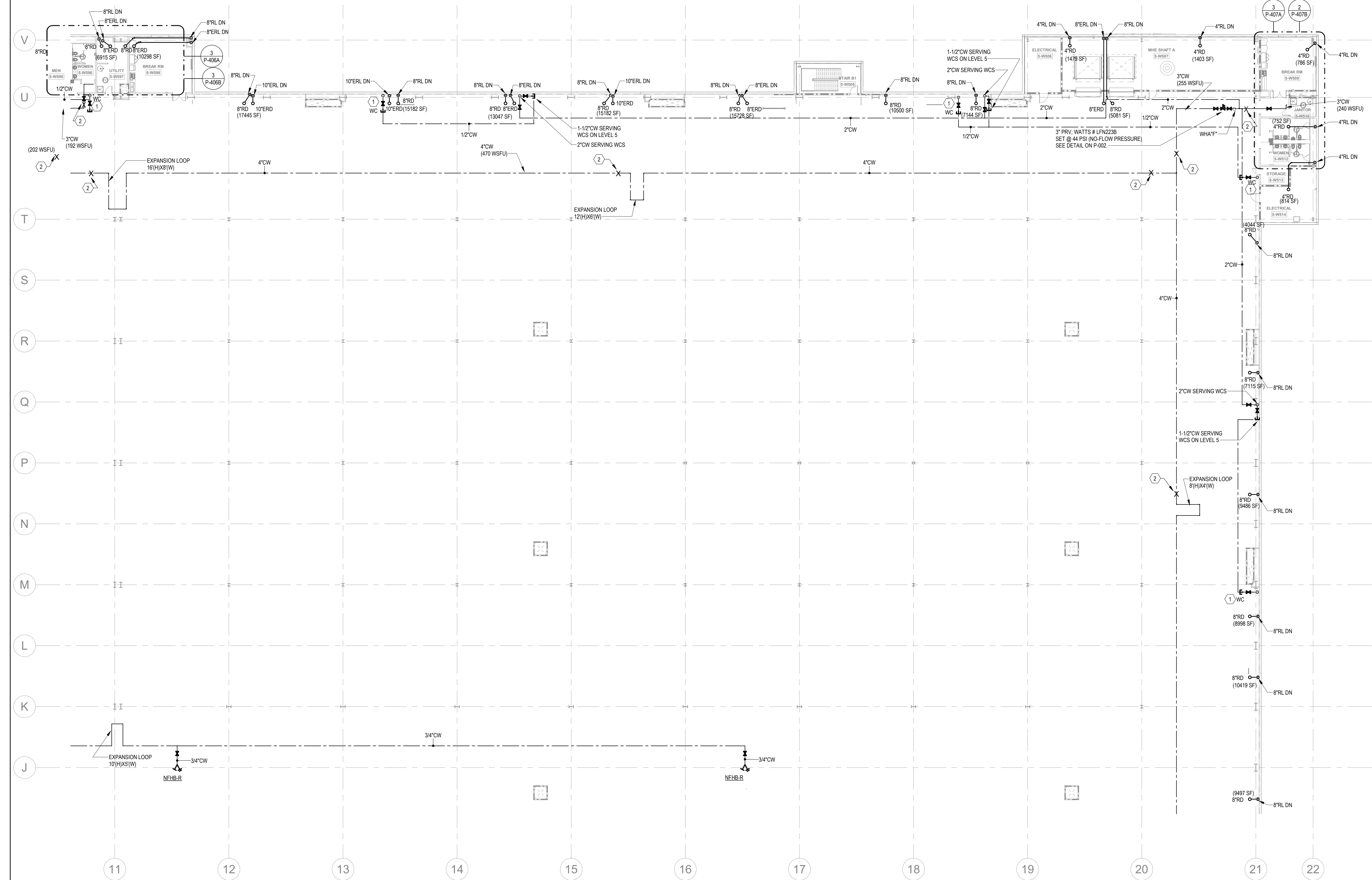
NOTE:
SCUPPER DESIGN IS NOT
PLUMBING'S SCOPE. REFER
TO ARCHITECTURAL ROOF
PLANS FOR SCUPPERS(TYP.)



1/21/2022 10:56:48 AM

1
1" = 20'-0"

PARTIAL FLOOR PLANS - LEVEL 5 - D - PLUMBING



NOTE:
DOMESTIC WATER MAINS, VALVES & PRVS TO BE INSTALLED OUTSIDE OF THE ROBOTICS FIELD. COORDINATE ROUTINGS WITH CLEAR HEIGHT REQUIREMENTS AND ALL TRADES, INCLUDING MECHANICAL DUCT LOCATIONS.

STORM DRAINAGE NOTES:
STORM PIPING & ROOF DRAINS ARE SIZED BASED ON 2018 NORTH CAROLINA PLUMBING CODE.
(PRIMARY ROOF DRAIN: BASED ON RAINFALL RATE OF 4.5\"/>

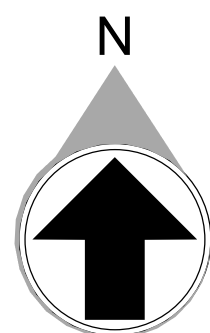
NOTE:
SCUPPER DESIGN IS NOT PLUMBING'S SCOPE. REFER TO ARCHITECTURAL ROOF PLANS FOR SCUPPERS(TYP.)

KEYNOTES

1	PROVIDE 1/2\"/>
2	PROVIDE LONGITUDINAL AND TRANSVERSE BRACING. SEE DETAILS ON P-003.

FLOOR KEY PLAN

C	D
B	A



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Stockbridge Rd. • Suite 100
Rossmore, CA 95055-2997
P 770.442.5542 • F 770.442.0242

Project Number: 2110000 Checked By: DMS

Drawn By: CCF

PRINT RECORD

NUMBER DATE DESCRIPTION

01/21/22 BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

PARTIAL
FLOOR PLAN -
LEVEL 5 D -
PLUMBING

SHEET NUMBER

P-225

NOT FOR CONSTRUCTION



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brookhaven Rd. • Suite 200
Roswell, GA 30095-2997
P 770.442.5544 F 770.442.0242

Project Number: 211800
Drawn By: CF

PRINT RECORD

NUMBER DATE DESCRIPTION

01/21/22 BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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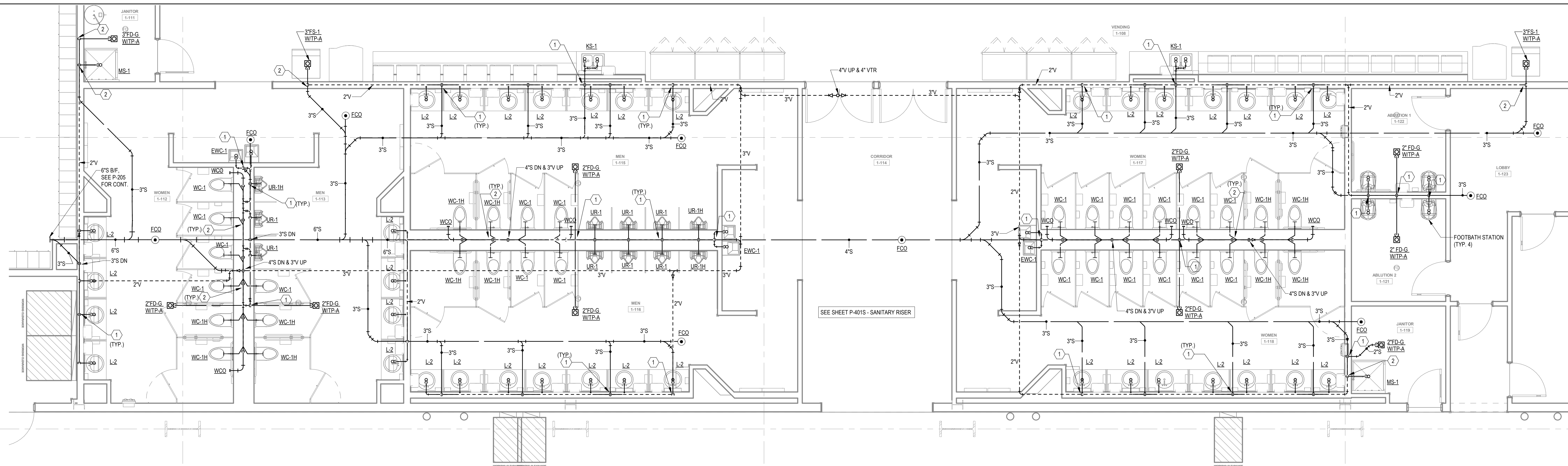
DATE PROJECT NO
01/21/22 2021-136

SHEET TITLE
MAIN OFFICE
PLAN - A -
PLUMBING

SHEET NUMBER

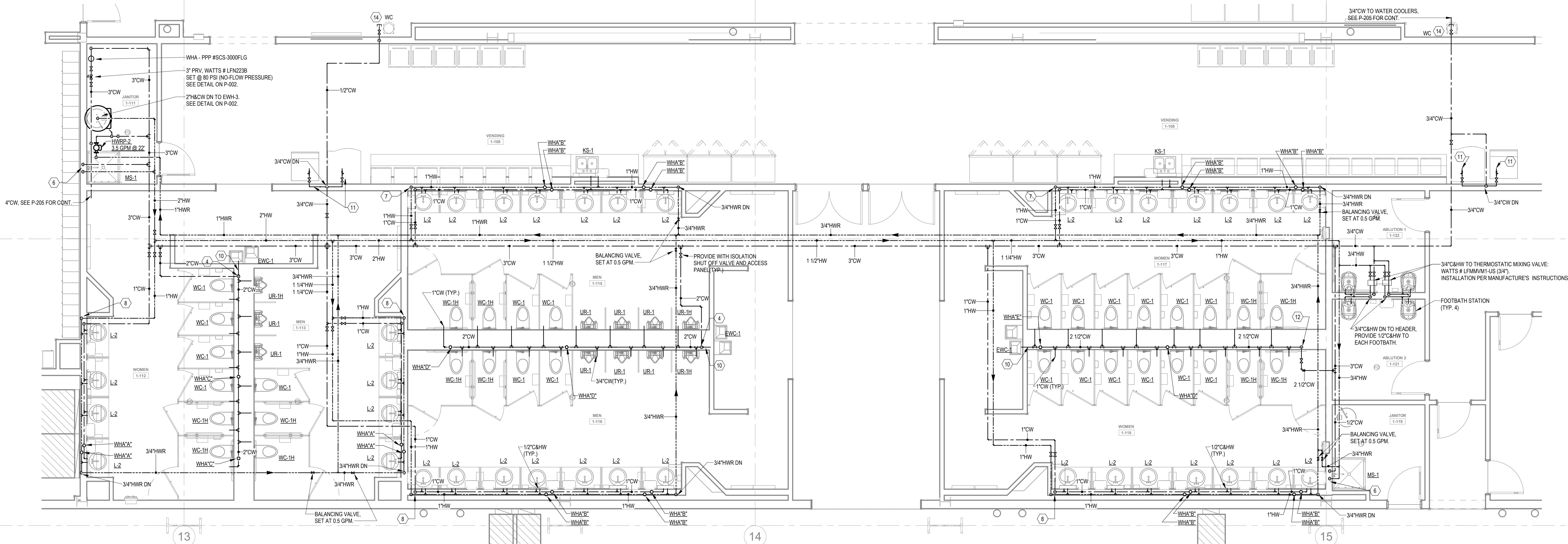
P-401

NOT FOR CONSTRUCTION



KEYNOTES	
1	2" W DN & 2" V UP
2	2" V UP
3	1/2" CW TO EWH & 1/2" CW TO LAV(KS). PROVIDE 1/2" HW FOR EWH TO LAV(KS).
4	2" CW DN TO HEADER, PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
5	2" CW DN TO HEADER, 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC, 3/4" TO EACH UR & 1/2" HW TO EACH LAV.
6	1/2" H & CW DN.
7	1" H & CW DN TO HEADER, PROVIDE 1/2" H & CW TO EACH LAV & KS.
8	1" H & CW DN TO HEADER, PROVIDE 1/2" H & CW TO EACH LAV.
9	1-1/2" CW & 3/4" HW DN TO HEADER, PROVIDE 1" CW TO EACH WC, 1/2" HW TO LAV(KS).
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
11	1/2" CW, PROVIDE 1/2" SHUT-OFF VALVE & WATTS MSD-3 BACKFLOW PREVENTER, ASSE 1022.
12	2-1/2" CW DN TO HEADER, CONNECT 1" CW TO EACH WC.
13	1-1/2" CW DN TO HEADER, PROVIDE 1" CW TO WC AND 1/2" TO LAV. PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
14	

1 ENLARGED MAIN OFFICE EAST - SANITARY
1/4" = 1'-0"



2 ENLARGED MAIN OFFICE EAST - WATER
1/4" = 1'-0"

1/21/2022 10:57:59 AM



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockwood Rd. • Suite 200
Rossmore, CA 95053-2997
P 770.442.5542 • F 770.442.0262

Project Number: 211800
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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01/21/22	BID SET	
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PROJECT INFORMATION

PROJECT WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

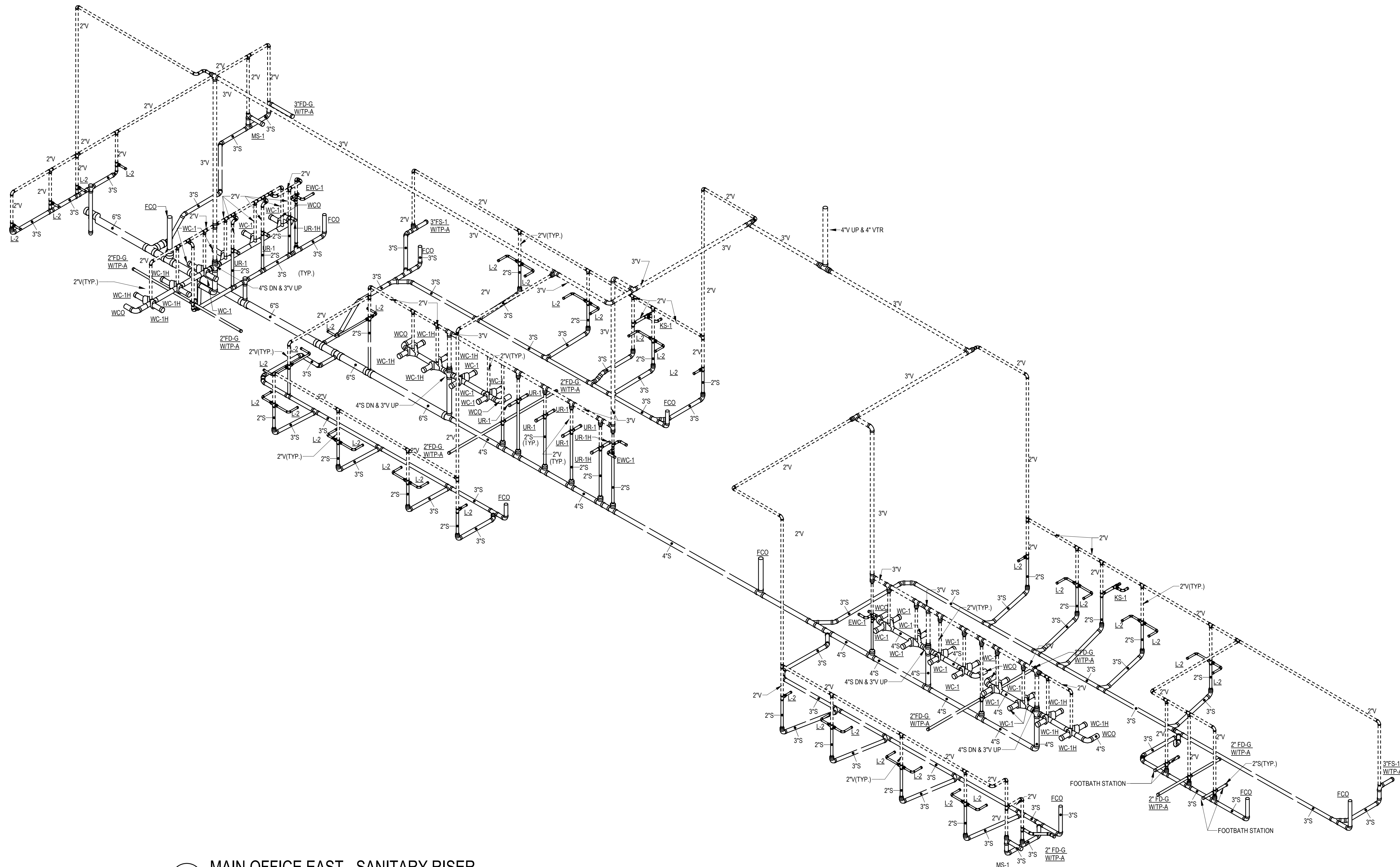
SHEET TITLE

MAIN OFFICE -
SANITARY
RISER

SHEET NUMBER

P-401S

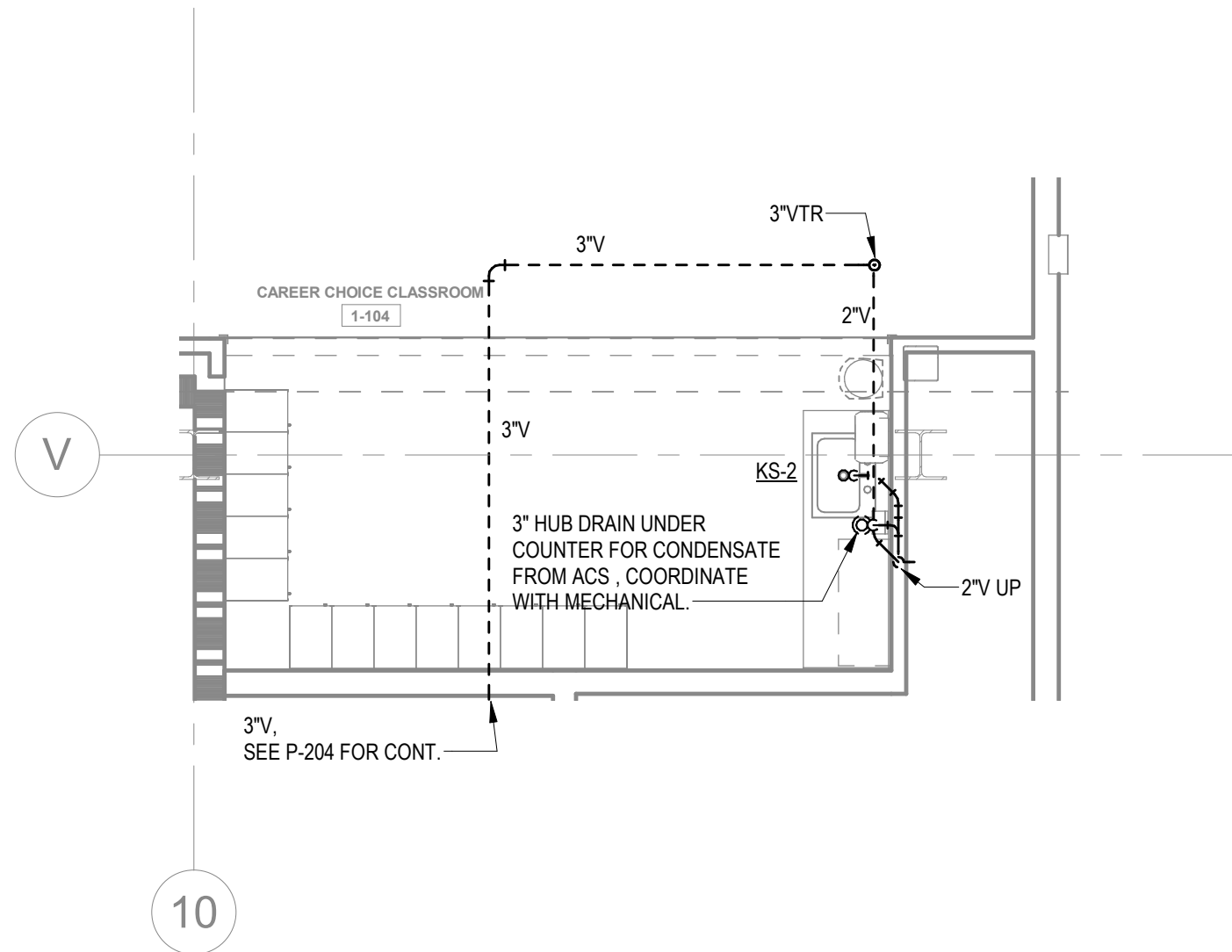
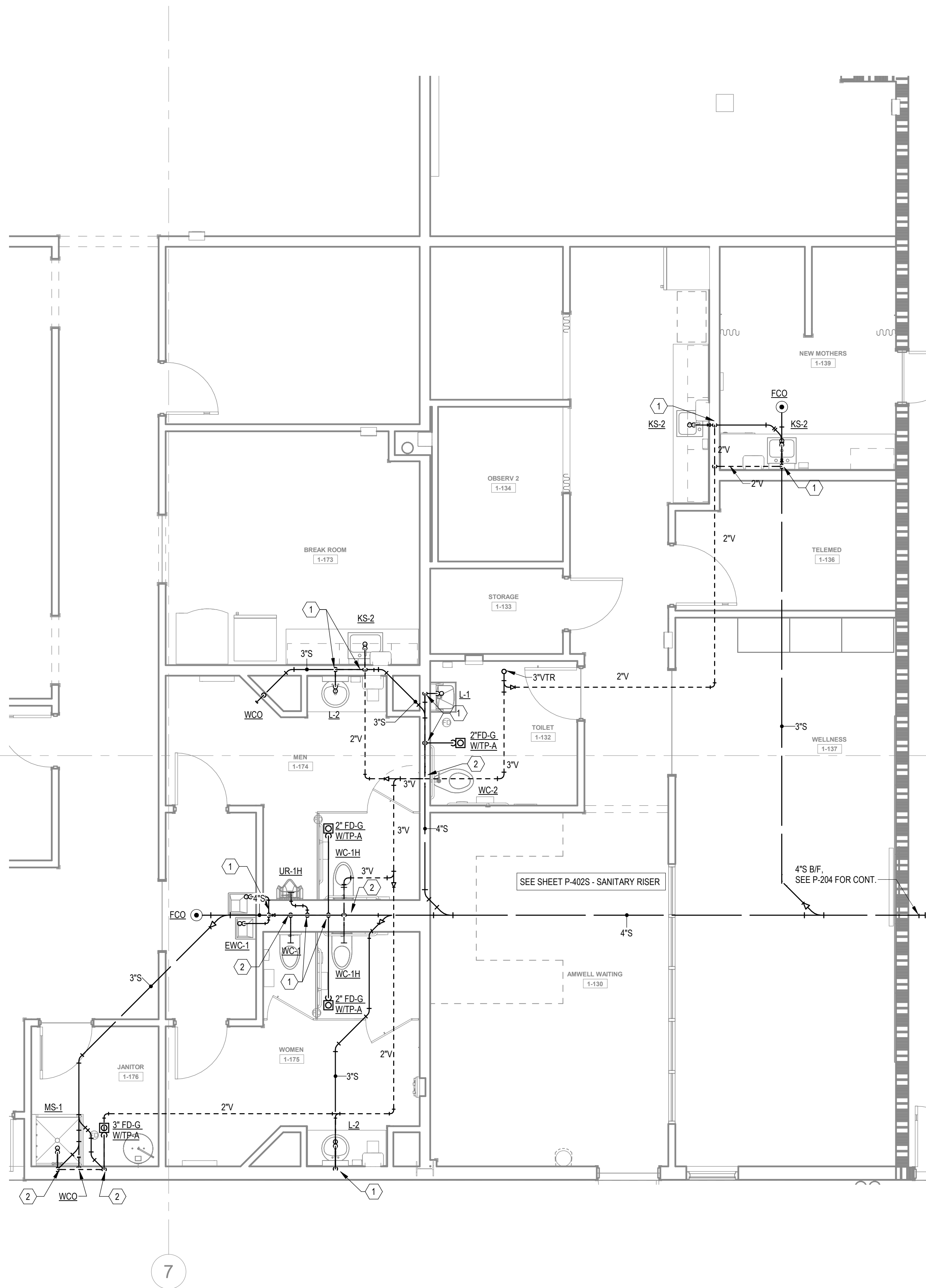
NOT FOR CONSTRUCTION



1 MAIN OFFICE EAST - SANITARY RISER

Scale:

1/21/2022 10:57:58 AM



KEYNOTES	
1	2" W DN & 2" V UP
2	2" V UP
3	1/2" CW TO EWH & 1/2" CW TO LAV(KS). PROVIDE 1/2" HW FOR EWH TO LAV(KS).
4	2" CW DN TO HEADER, PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
5	2" CW DN TO HEADER, 3/4" HW DN TO HEADER, PROVIDE 1" CW TO EACH WC, 3/4" TO EACH UR & 1/2" H&CW TO EACH LAV.
6	1/2" H & CW DN
7	1" H & CW DN TO HEADER, PROVIDE 1/2" H & CW TO EACH LAV & KS.
8	1" H & CW DN TO HEADER, PROVIDE 1/2" H & CW TO EACH LAV.
9	1-1/2" CW & 3/4" HW DN TO HEADER, PROVIDE 1" CW TO EACH WC, 1/2" H&CW TO LAV(KS).
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
11	1/2" CW, PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
12	2-1/2" CW DN TO HEADER, CONNECT 1" CW TO EACH WC.
13	1-1/2" CW DN TO HEADER, PROVIDE 1" CW TO WC AND 1/2" TO LAV.
14	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD, ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER, STUD COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION, PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.

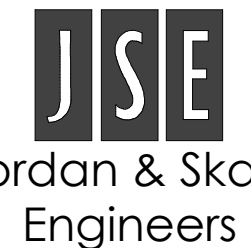


MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockland Rd. • Suite 200
Folsom, CA 95695-2997
P: 707.445.5544 • F: 707.445.0242

Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

MAIN OFFICE
PLAN - B -
SANITARY

SHEET NUMBER

P-402A

NOT FOR CONSTRUCTION

1

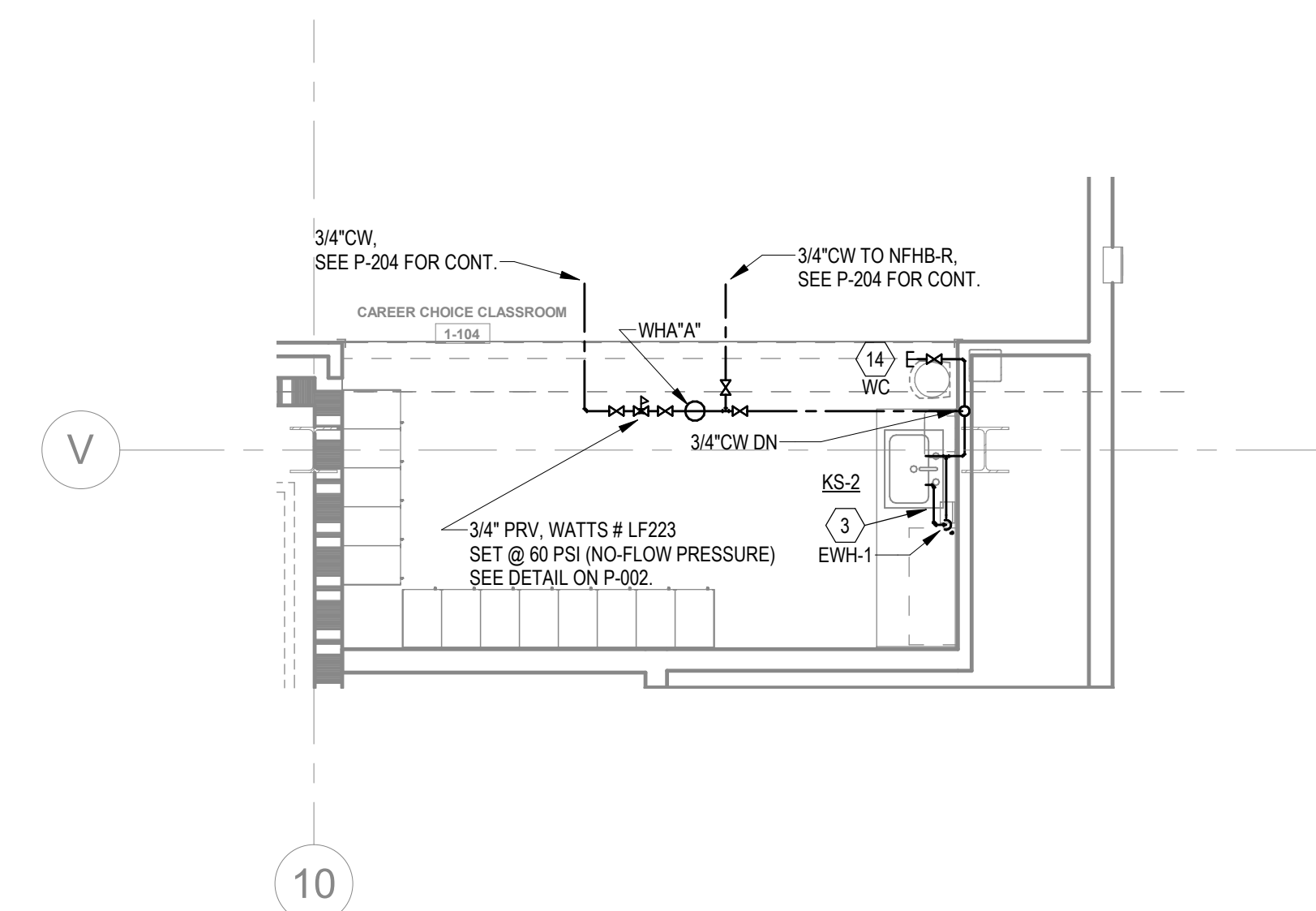
ENLARGED MAIN OFFICE WEST - SANITARY

1/4" = 1'-0"

2

ENLARGED CAREER CHOICE CLASSROOM - SANITARY

1/4" = 1'-0"



**MACGREGOR
ASSOCIATES
ARCHITECTS**

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT

JSE
Jordan & Skala
Engineers
4275 Shackleford Rd., • Suite 200
Norcross, GA 30093-2997
p. 770.447.5547 • f. 770.448.0262

Project Number: 2110620
Drawn By: Author Checked By: Checker

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

**MAIN OFFICE
PLAN - B -
WATER**

SHEET NUMBER

P-402B

NOT FOR CONSTRUCTION



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmead Rd. • Suite 200
Rossmore, CA 95053-2997
P: 770.442.2542 • F: 770.442.2242

Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

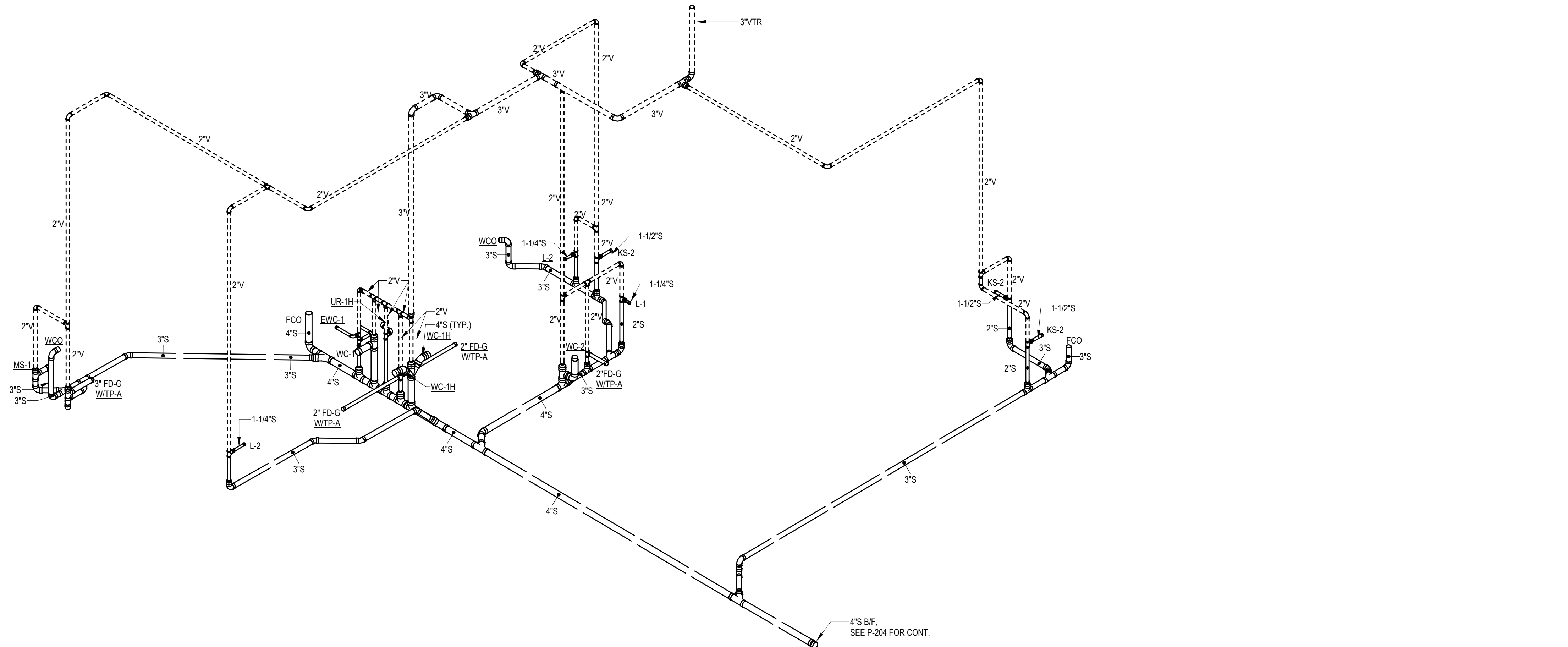
SHEET TITLE

MAIN OFFICE -
SANITARY
RISER

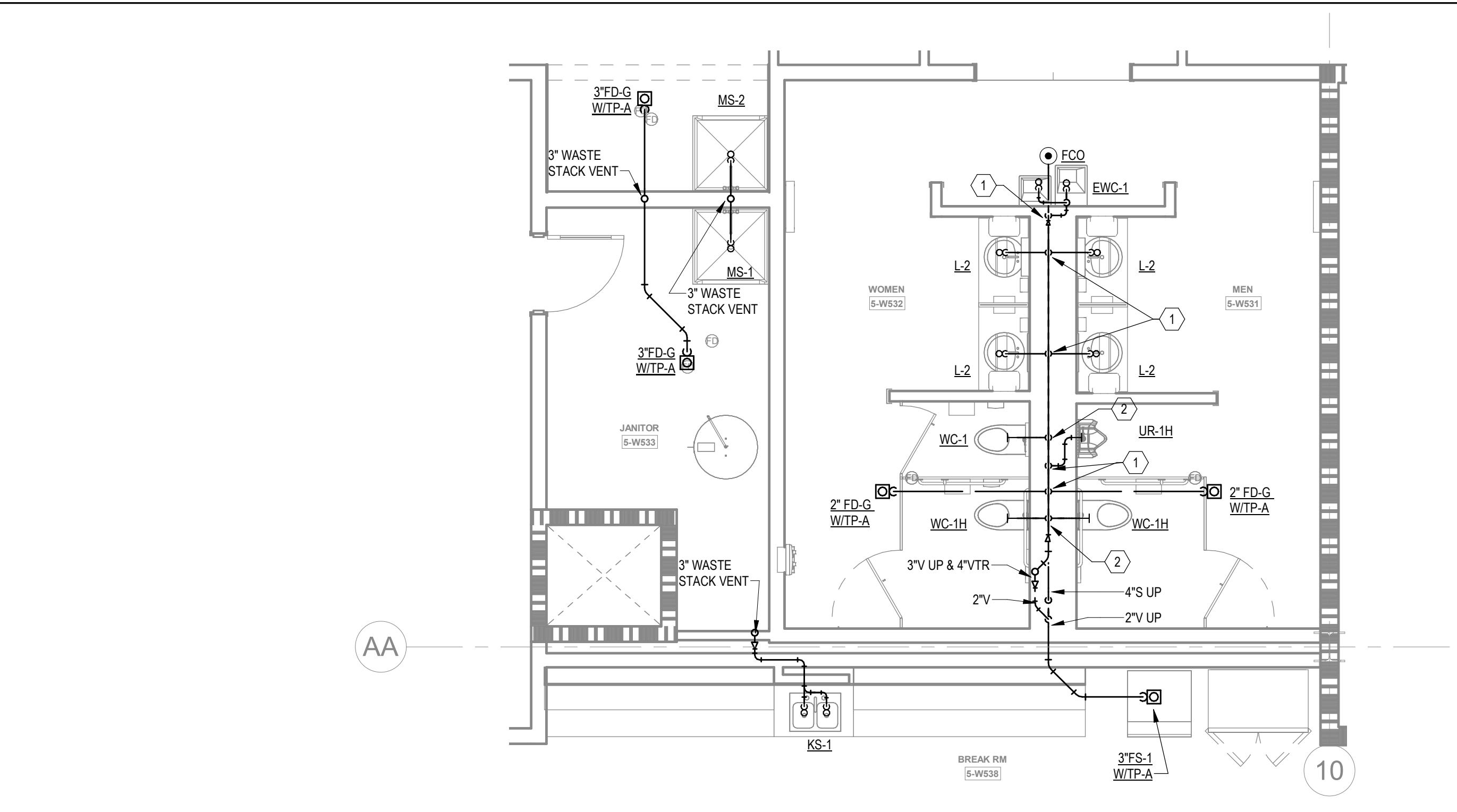
SHEET NUMBER

P-402S

NOT FOR CONSTRUCTION

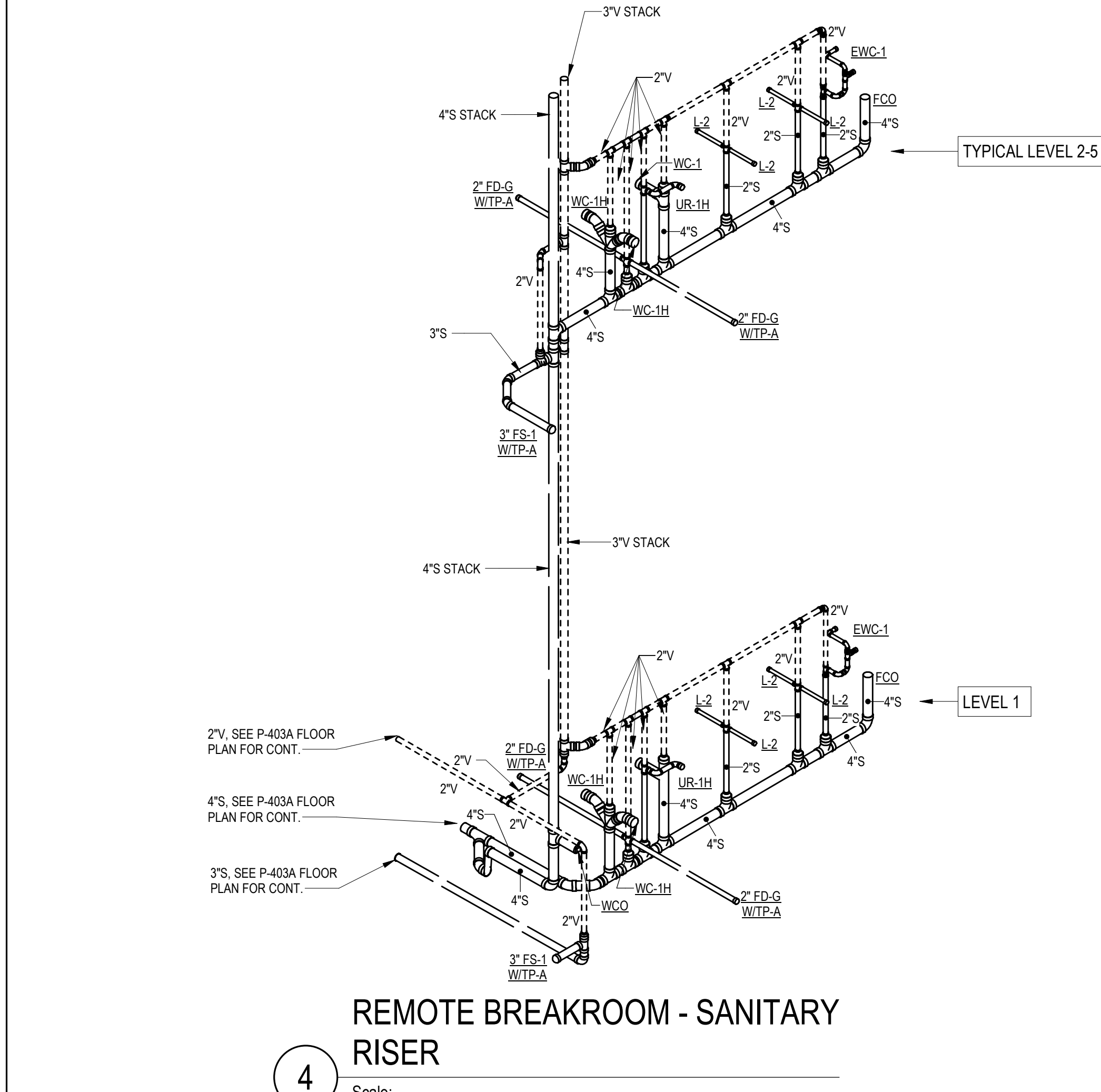


1 MAIN OFFICE WEST - SANITARY RISER
Scale:

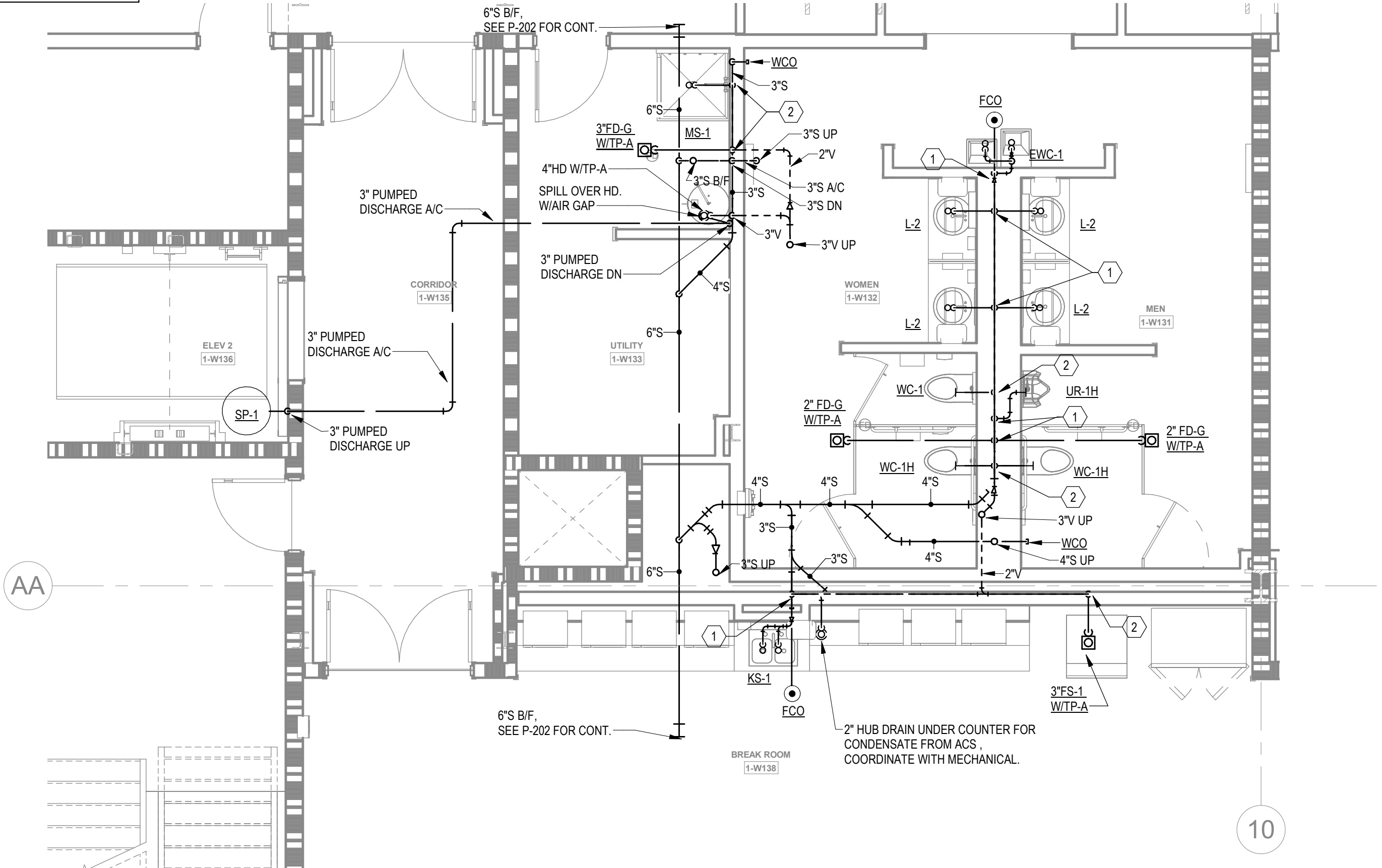


5	ENLARGED FLOOR PLANS - MEZZANINE - SANITARY
1/4" = 1'-0"	

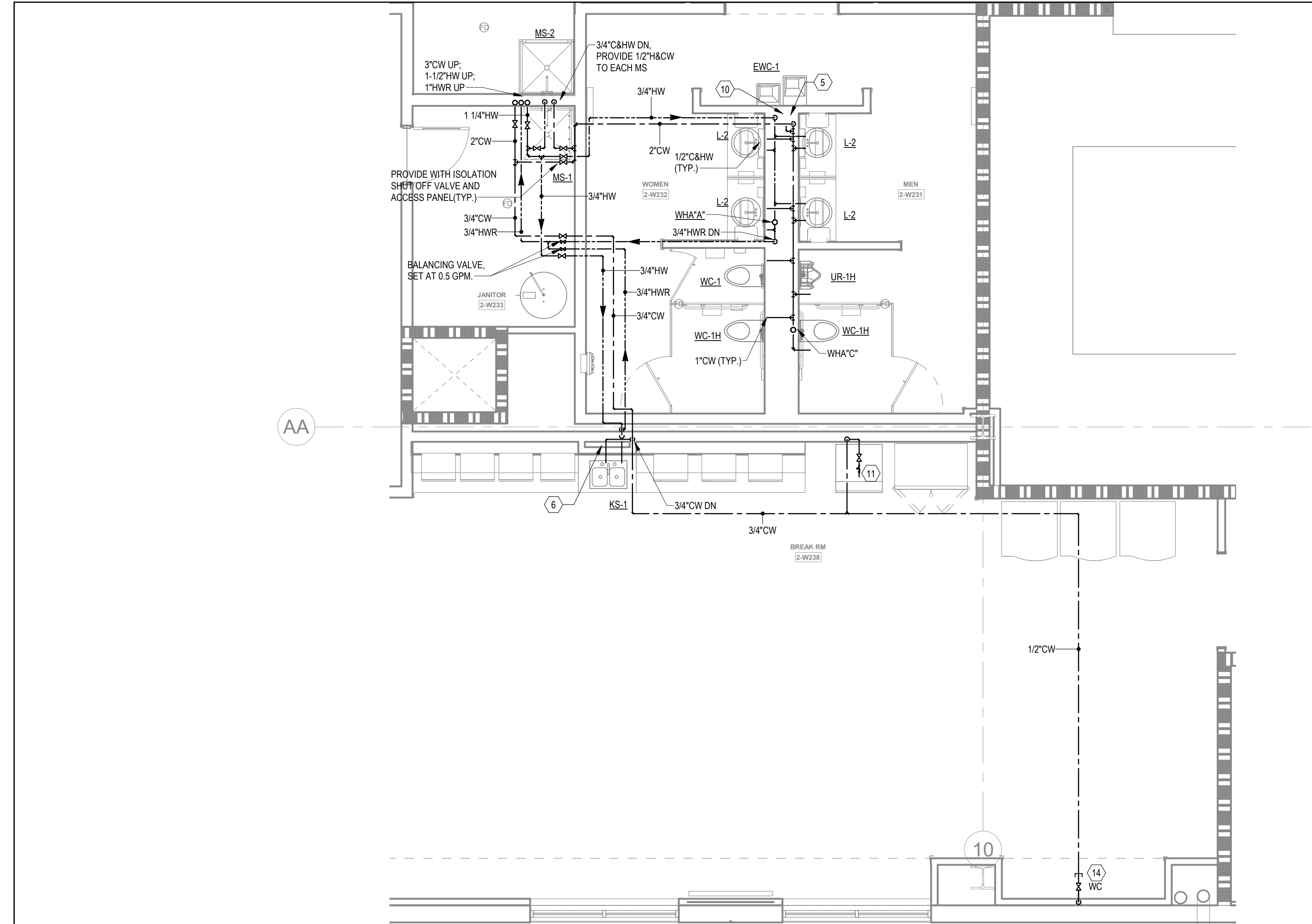
3	ENLARGED REMOTE BREAKROOM - LEVEL 5 - SANITARY
1/4" = 1'-0"	



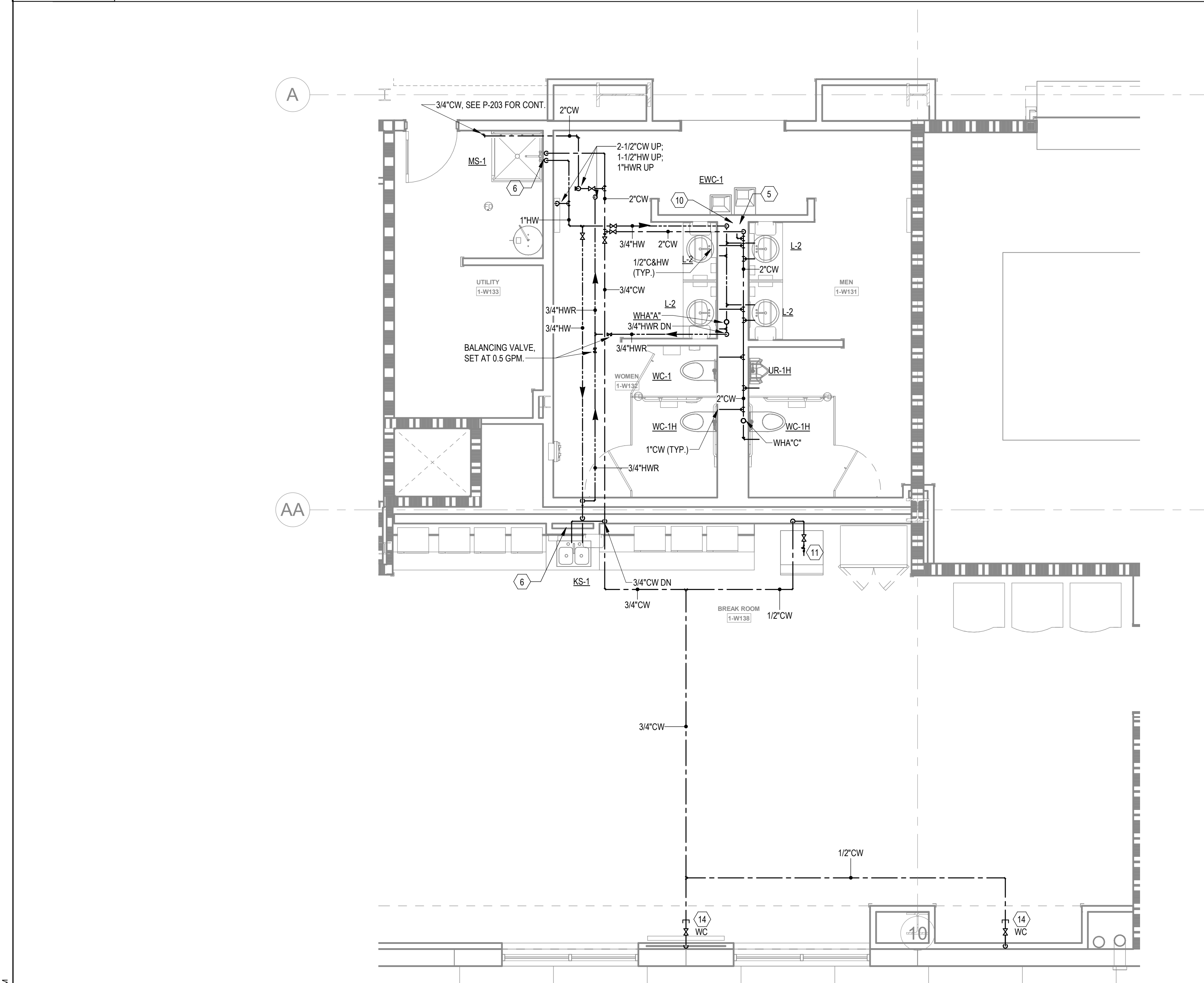
2	ENLARGED REMOTE BREAKROOM - LEVEL 2-4 - SANITARY
1/4" = 1'-0"	



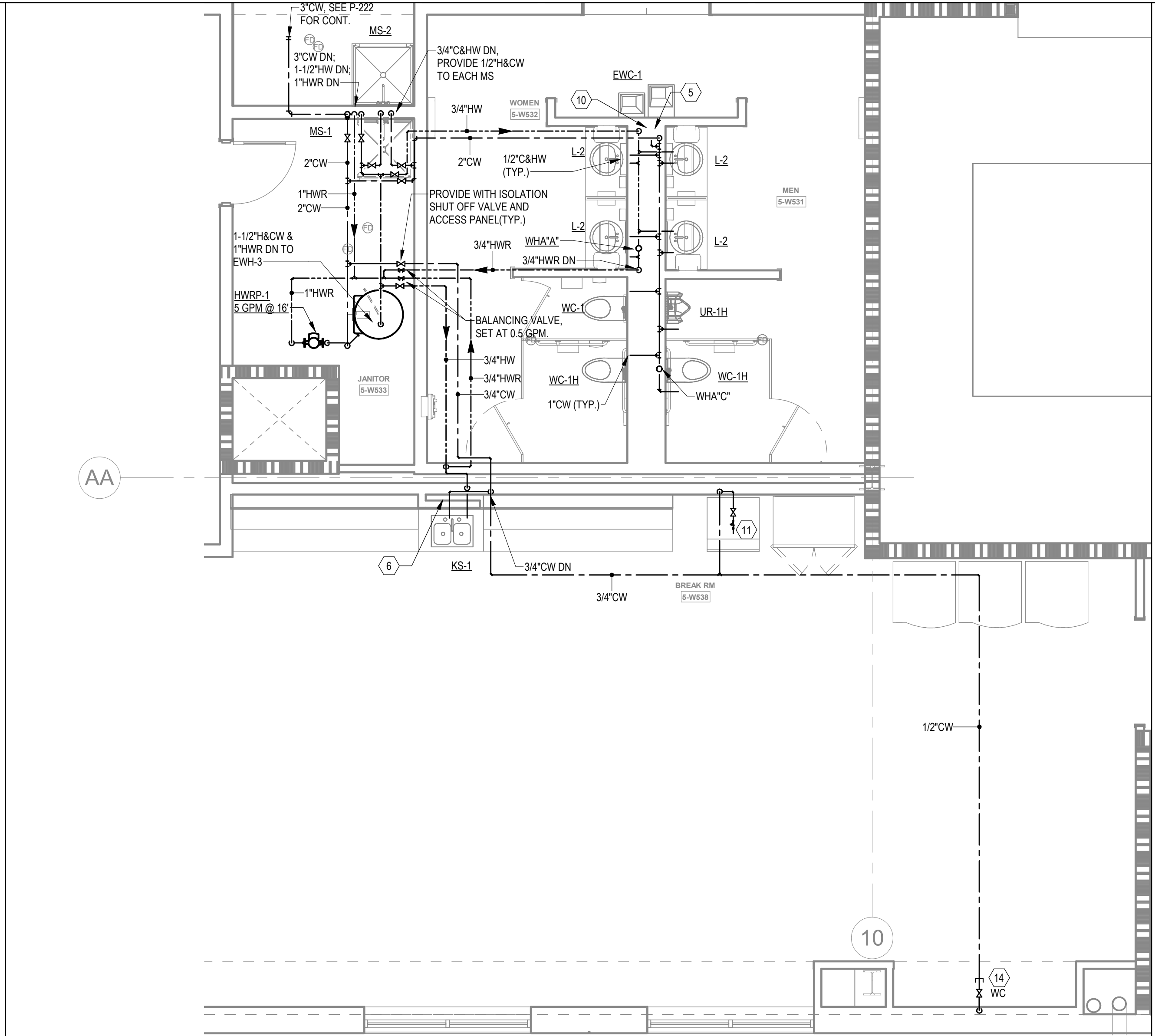
1	ENLARGED REMOTE BREAKROOM - LEVEL 1 - SANITARY
1/4" = 1'-0"	



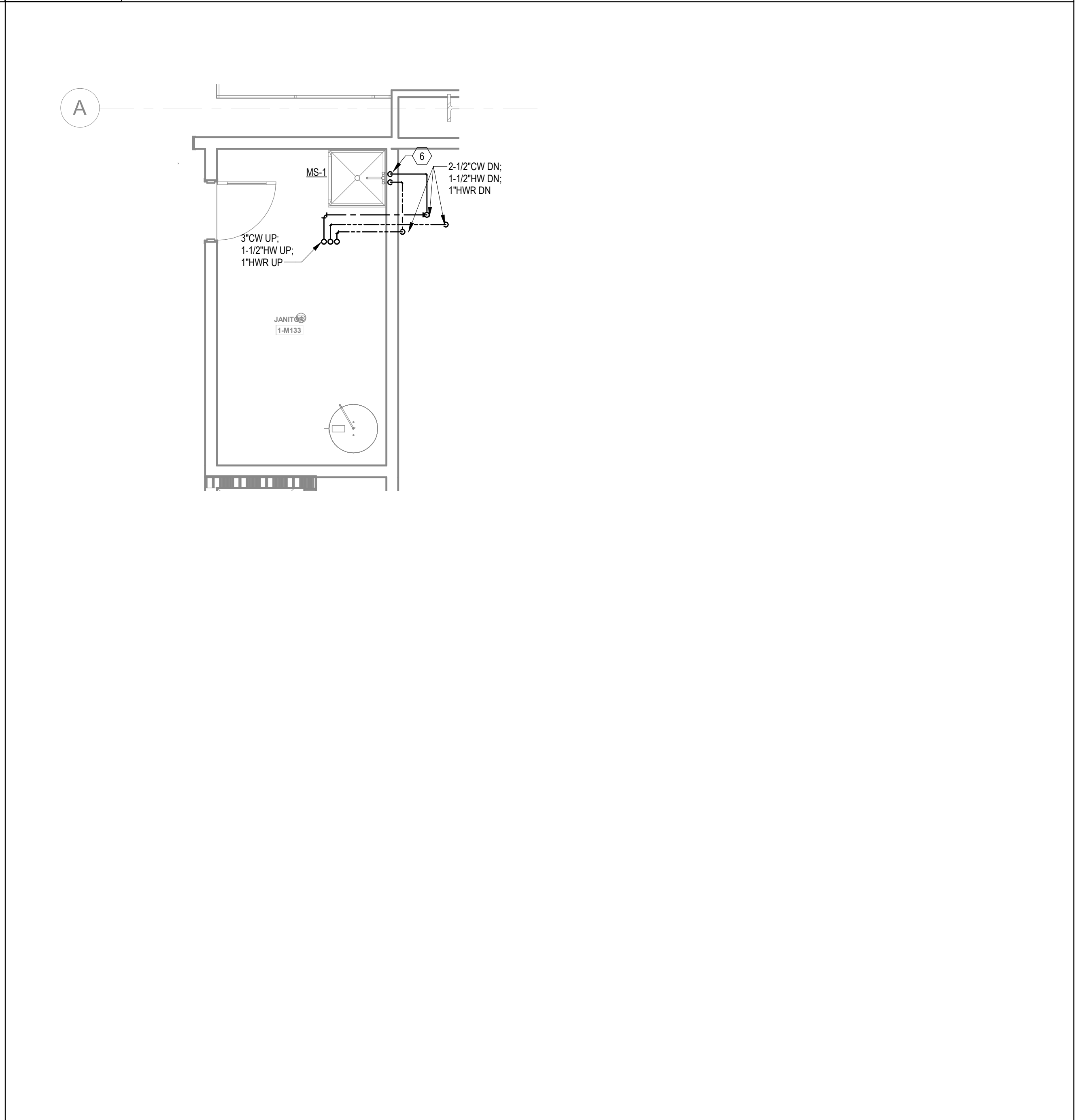
2	ENLARGED REMOTE BREAKROOM - LEVEL 2-4 - WATER
1/4" = 1'-0"	



1	ENLARGED REMOTE BREAKROOM - LEVEL 1 - WATER
1/4" = 1'-0"	



4	ENLARGED REMOTE BREAKROOM - LEVEL 5 - WATER
1/4" = 1'-0"	



3	ENLARGED FLOOR PLANS - MEZZANINE - WATER
1/4" = 1'-0"	

KEYNOTES	
1	2" W DN & 2" V UP
2	2" V UP
3	1/2" CW TO EWH & 1/2" CW TO LAV(KS). PROVIDE 1/2" HW FOR EWH TO LAV(KS).
4	2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
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6	1/2" H & CW DN.
7	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
8	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
9	1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" HW DN TO LAV(KS).
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
11	1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
12	2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.
13	1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.
14	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUD COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

DATE	PROJECT NO
01/21/22	2021-136



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Brockland Rd. • Suite 200
Folsom, CA 95630-2997
P 707.442.5544 F 707.442.0262
Project Number: 2118000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
**ENLARGED
RESTROOM
PLANS -
SANITARY**

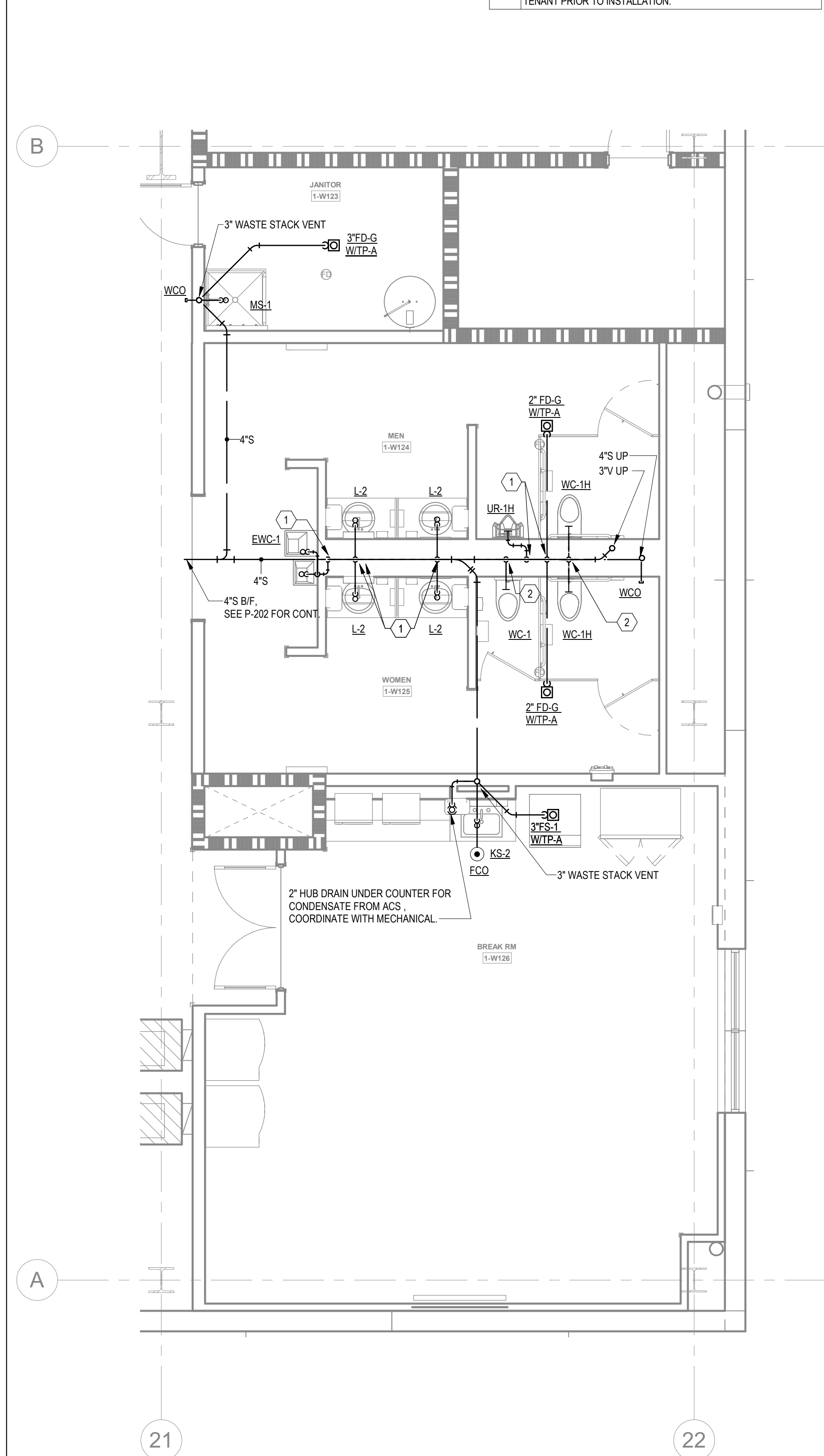
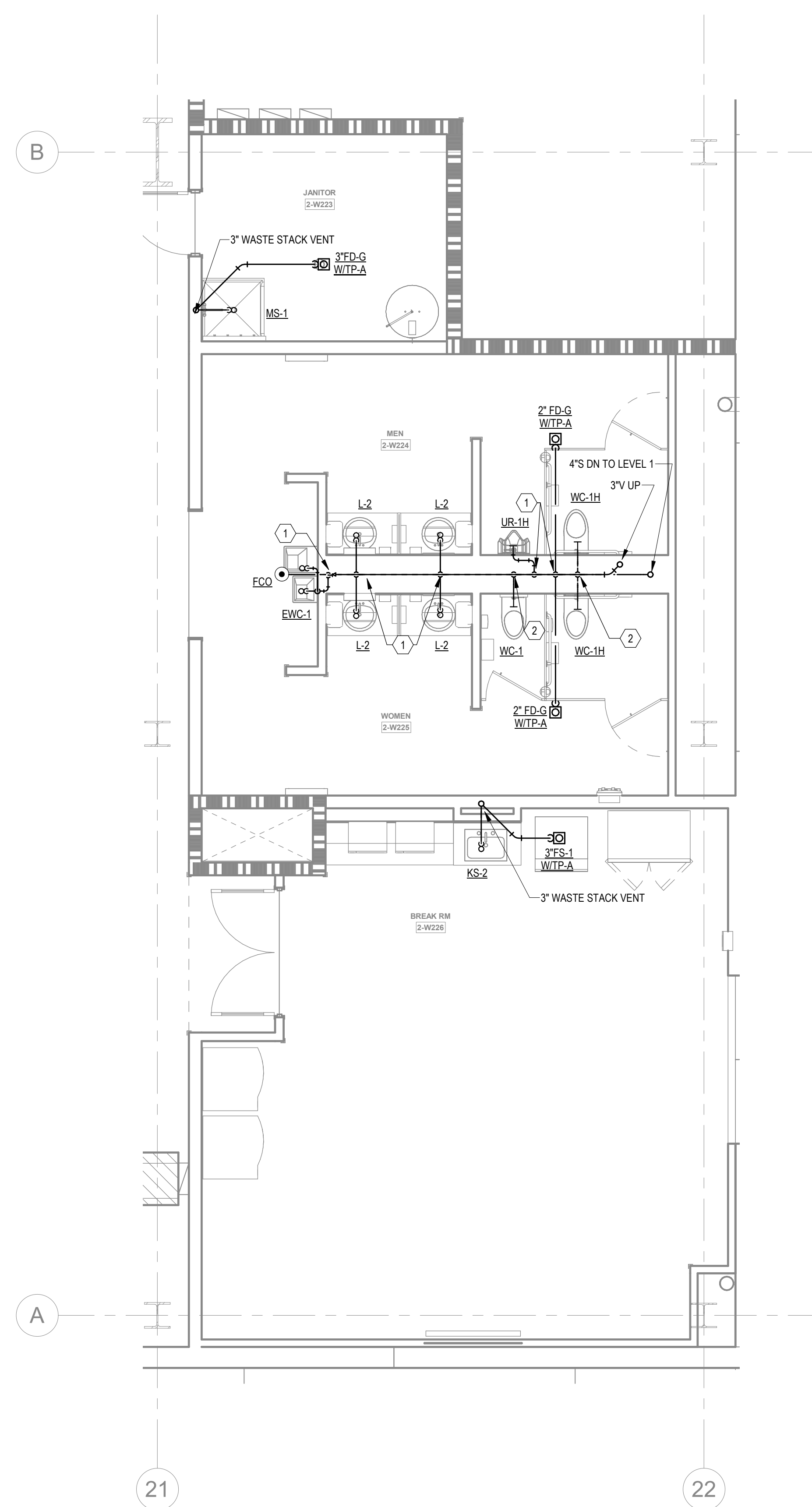
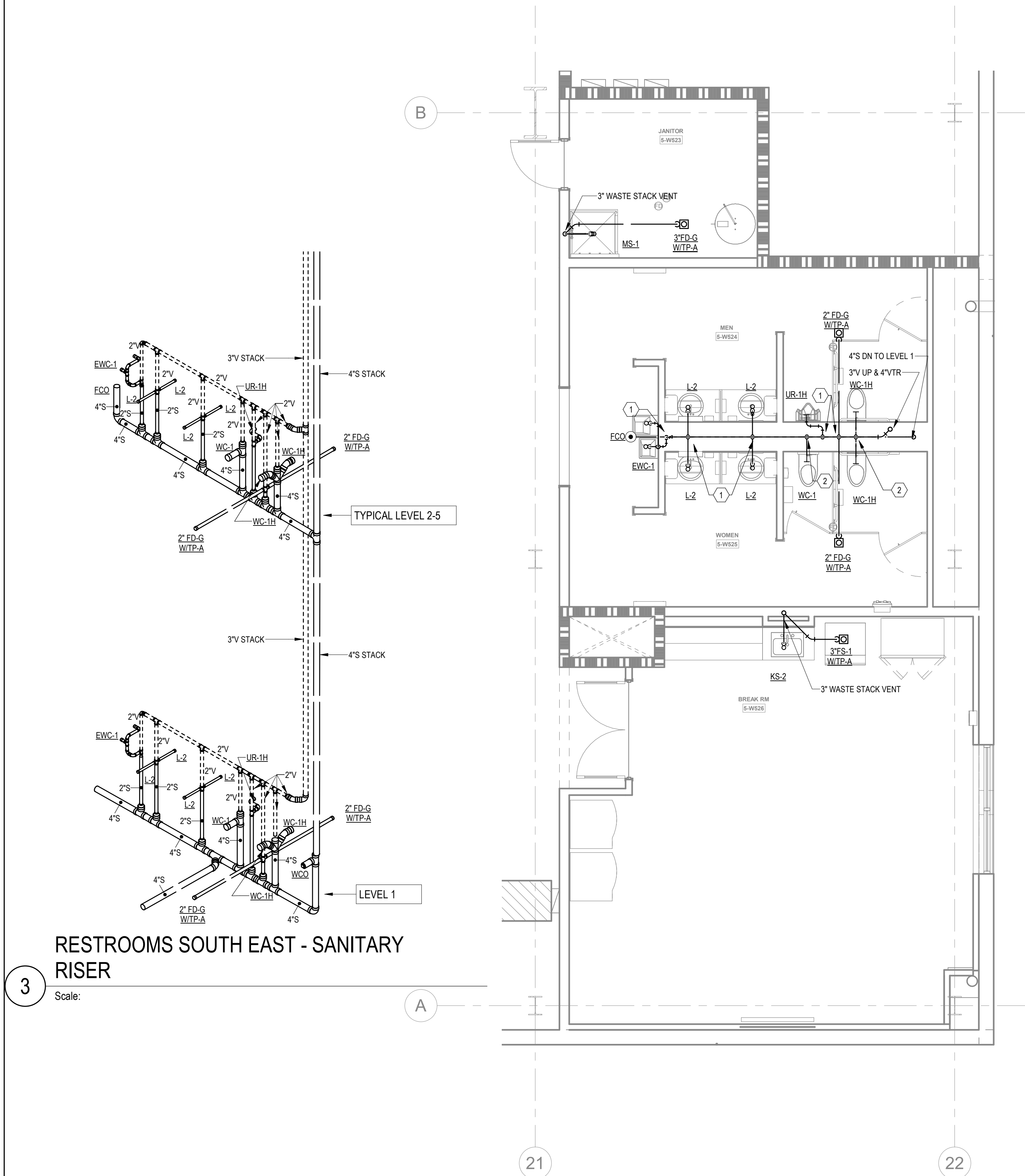
SHEET NUMBER

P-404A

NOT FOR CONSTRUCTION

KEYNOTES

- 2" WD & 2" V UP
- 2" V UP
- 1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).
- 2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
- 2" CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" H & CW TO EACH LAV.
- 1/2" H & CW DN.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
- 1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" H & CW TO EACH LAV.
- PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
- 1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
- 2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.
- 1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.
- PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUD COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.

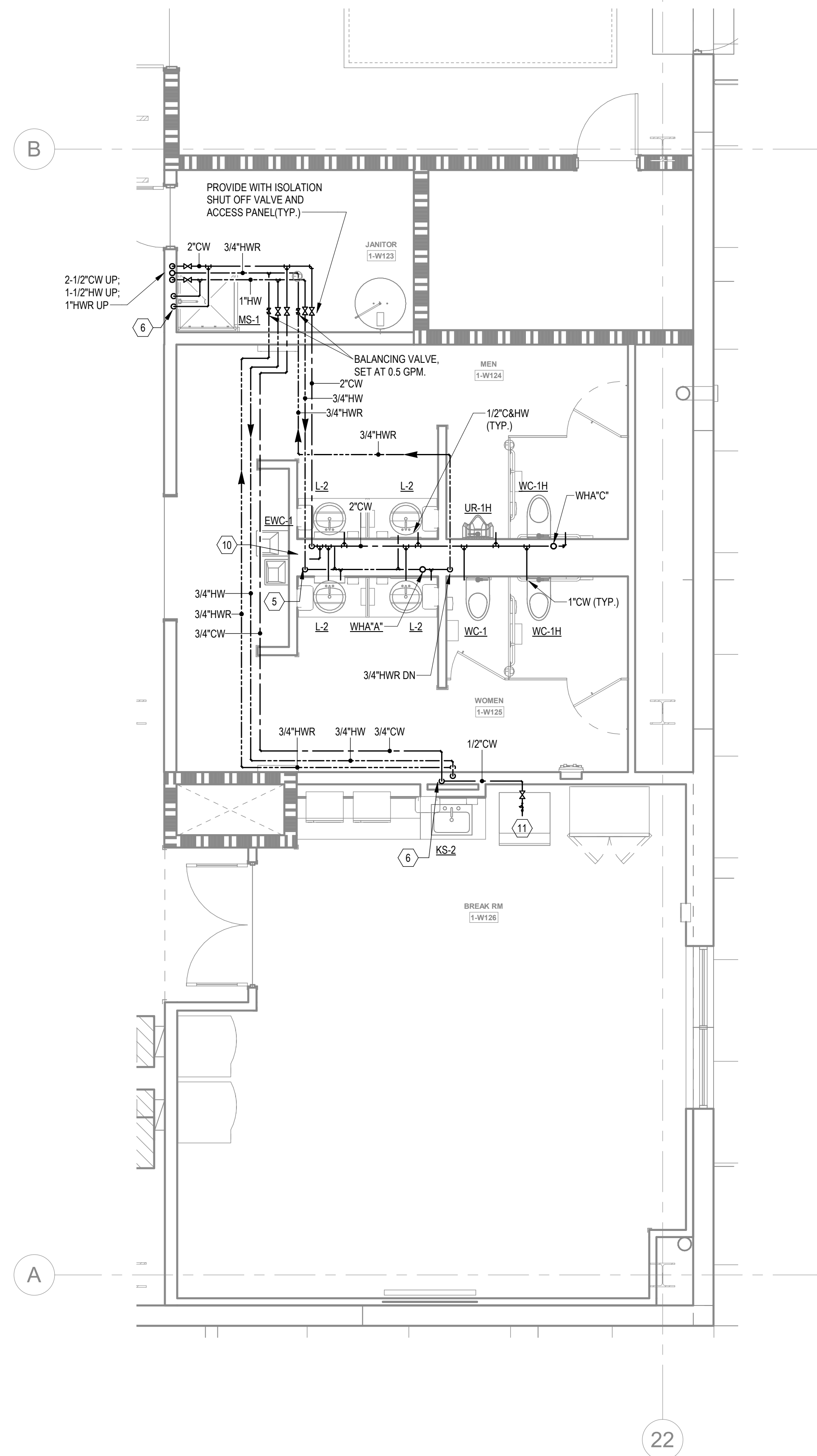
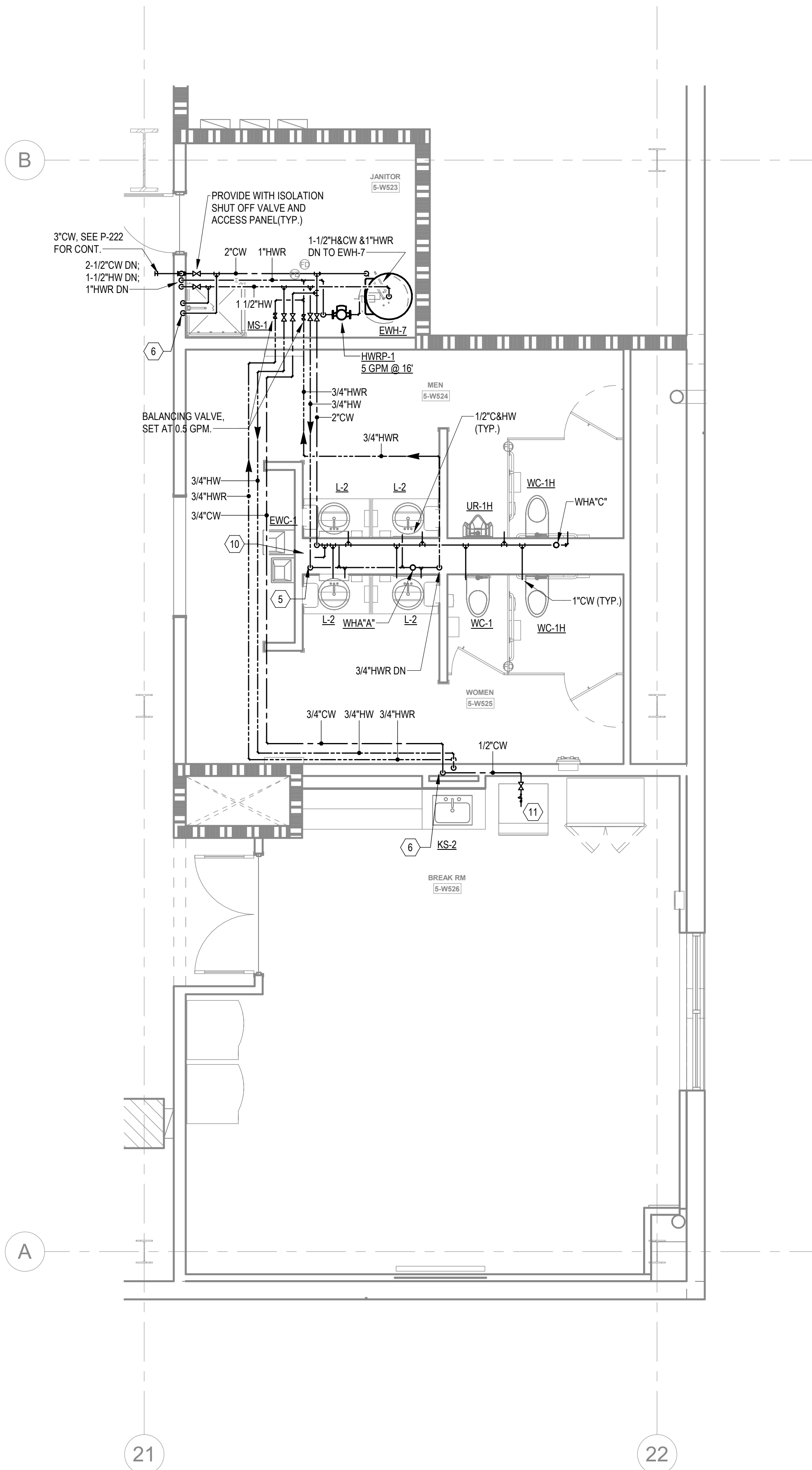


4 ENLARGED RESTROOMS SE - LEVEL 5 - SANITARY
1/4" = 1'-0"

2 ENLARGED RESTROOMS SE - LEVEL 2-4 - SANITARY
1/4" = 1'-0"

1 ENLARGED RESTROOMS SE - LEVEL 1 - SANITARY
1/4" = 1'-0"

1/21/2022 10:59:53 AM



KEYNOTES	
1	2" WD & 2" V UP
2	2" V UP
3	1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).
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MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Brockmead Rd. • Suite 200
Rossmore, CA 95055-2997
P: 770.442.5547 • F: 770.442.0262
Project Number: 211000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
ENLARGED
RESTROOM
PLANS - WATER

SHEET NUMBER

P-404B

NOT FOR CONSTRUCTION

2 ENLARGED RESTROOMS SOUTH EAST - LEVEL 5 - WATER

1/4" = 1'-0"

1 ENLARGED RESTROOMS SOUTH EAST - LEVEL 1-4 - WATER

1/4" = 1'-0"

1/21/2022 11:00:03 AM

RESTROOMS SOUTH WEST - SANITARY RISER

4

Scale:

3

ENLARGED RESTROOMS SW - LEVEL 5 - SANITARY

1/4" = 1'-0"

2

ENLARGED RESTROOMS SW - LEVEL 2-4 - SANITARY

1/4" = 1'-0"

1

ENLARGED RESTROOMS SW - LEVEL 1 - SANITARY

1/4" = 1'-0"

KEYNOTES

- 2" W/DN & 2" V UP
- 2" V UP
- 1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).
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- 1/2" H & CW DN
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
- 1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" H&CW TO LAV(S).
- PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
- 1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
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ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Stockbridge Rd. • Suite 200
Rosaros, CA 90903-2997
P 770.442.5242 • F 770.442.0242

Project Number: 211000

Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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01/21/22	BID SET	
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF HIS WORK.

DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

ENLARGED
RESTROOM
PLANS -
SANITARY

SHEET NUMBER

P-405A

NOT FOR CONSTRUCTION



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmeier Rd. • Suite 200
Rossmore, CA 95055-2997
P: 707.442.5544 • F: 707.442.0242

Project Number: 211000
Drawn By: Author Checked By: Checker

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT WHALE

WILMINGTON, NC



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DATE	PROJECT NO.
01/21/22	2021-136

SHEET TITLE

ENLARGED
RESTROOM
PLANS - WATER

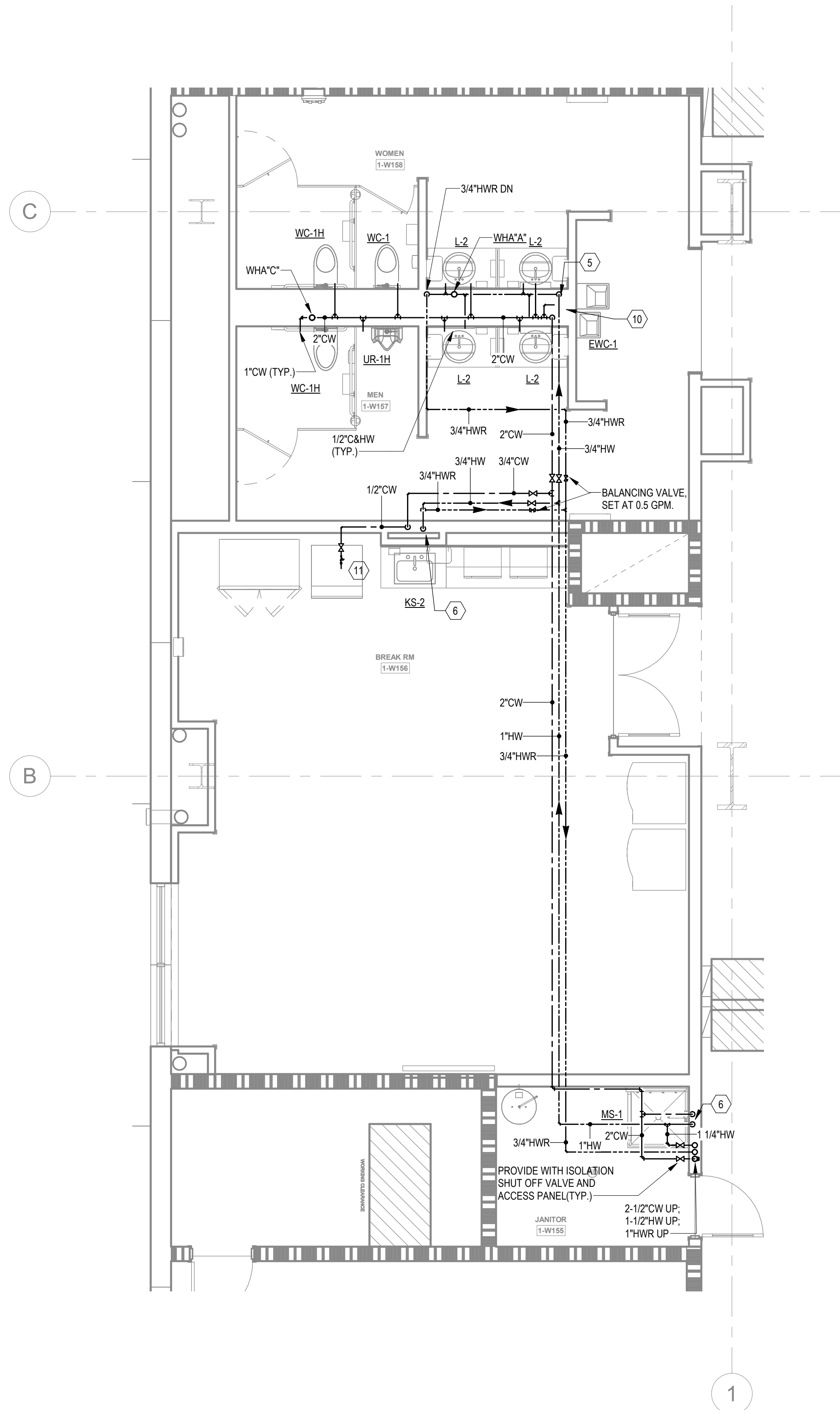
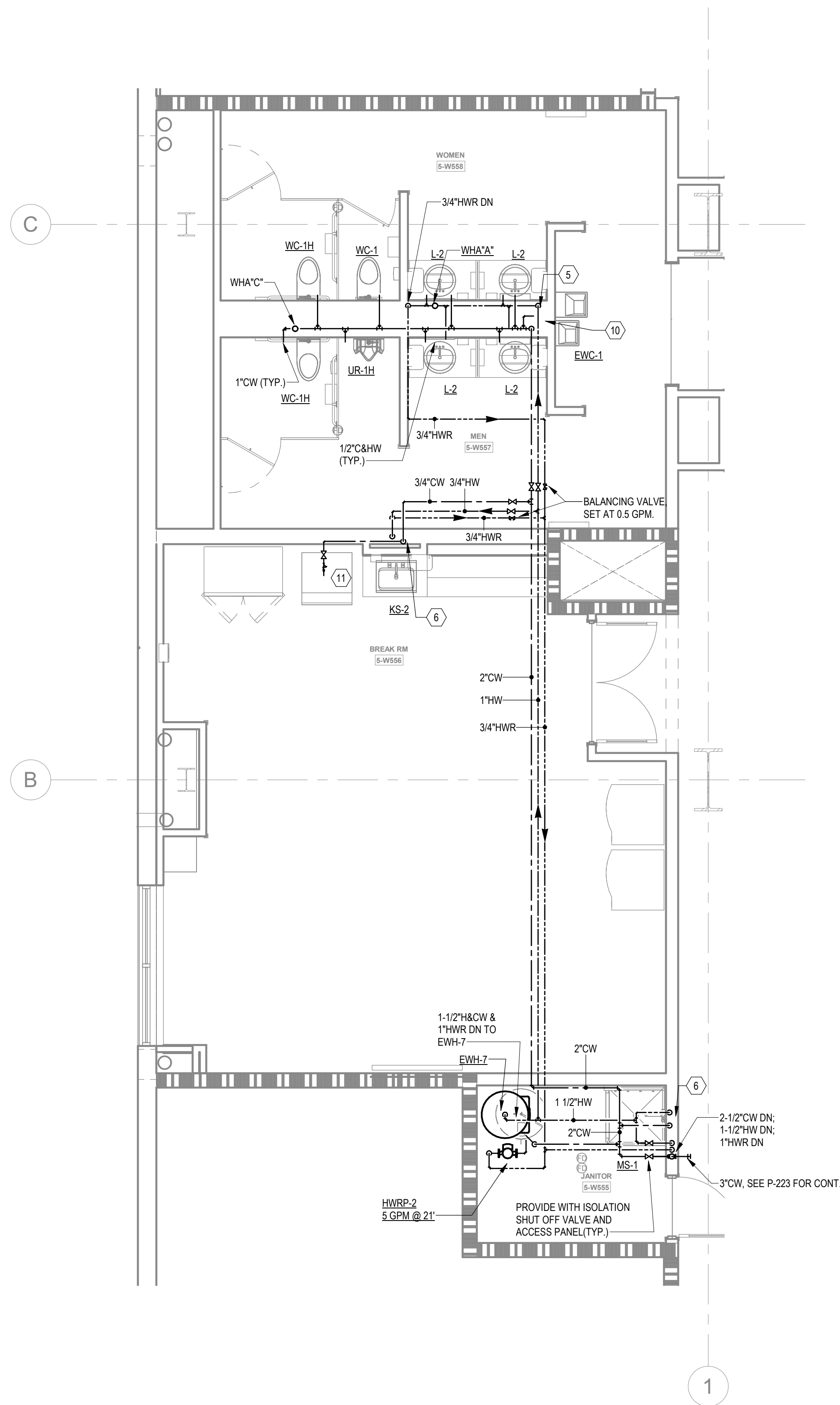
SHEET NUMBER

P-405B

NOT FOR CONSTRUCTION

KEYNOTES

- 2" WD & 2" V UP
- 2" V UP
- 1/2" CW TO EWH & 1/2" CW TO LAV(KS). PROVIDE 1/2" HW FOR EWH TO LAV(KS).
- 2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
- 2" CW DN TO HEADER. 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" HW DN TO EACH LAV.
- 1/2" H & CW DN.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
- 1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" HW DN TO LAV(KS).
- PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
- 1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
- 2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.
- 1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.
- PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.



2

ENLARGED RESTROOMS SOUTH WEST - LEVEL 5 - WATER

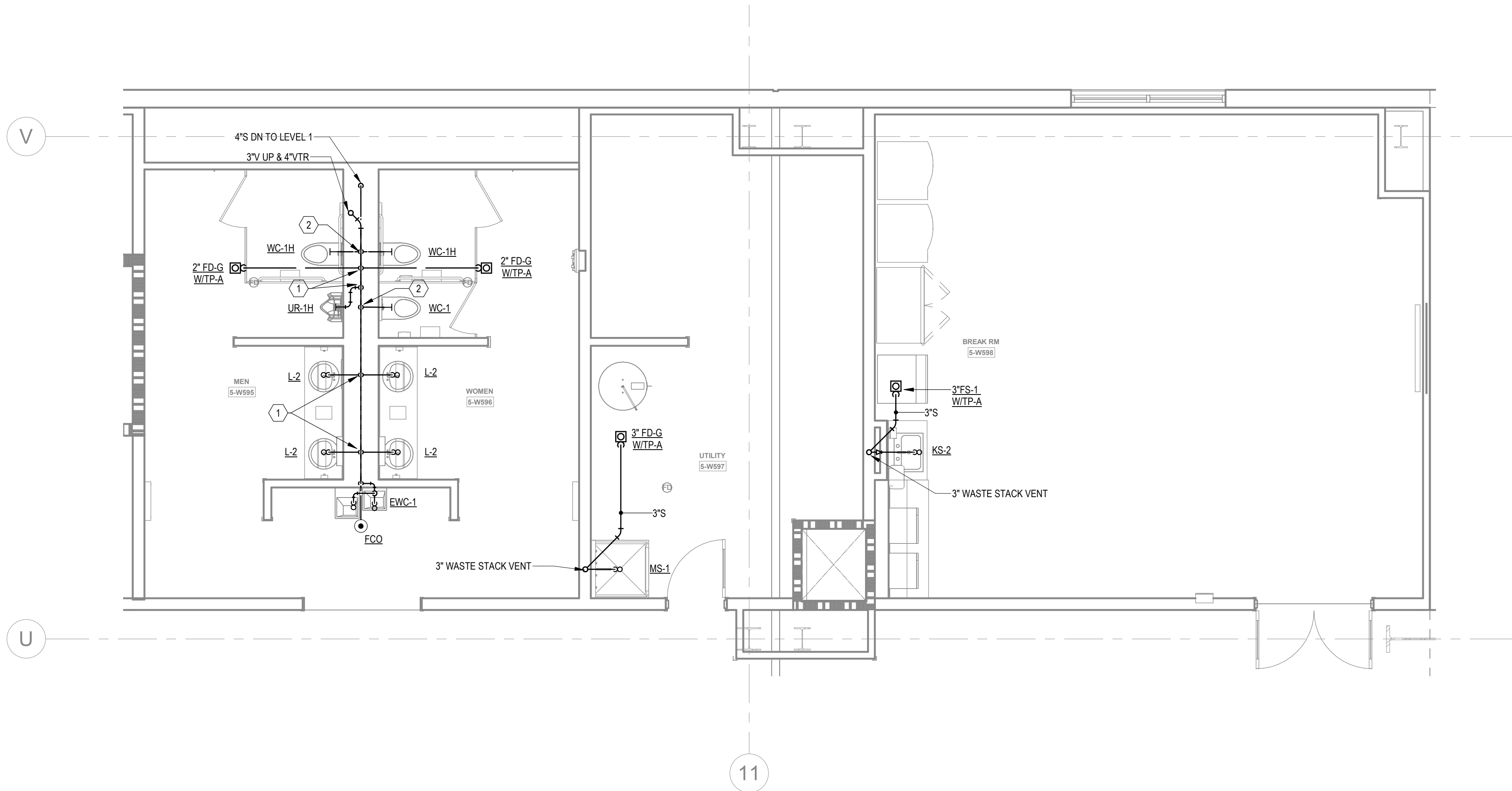
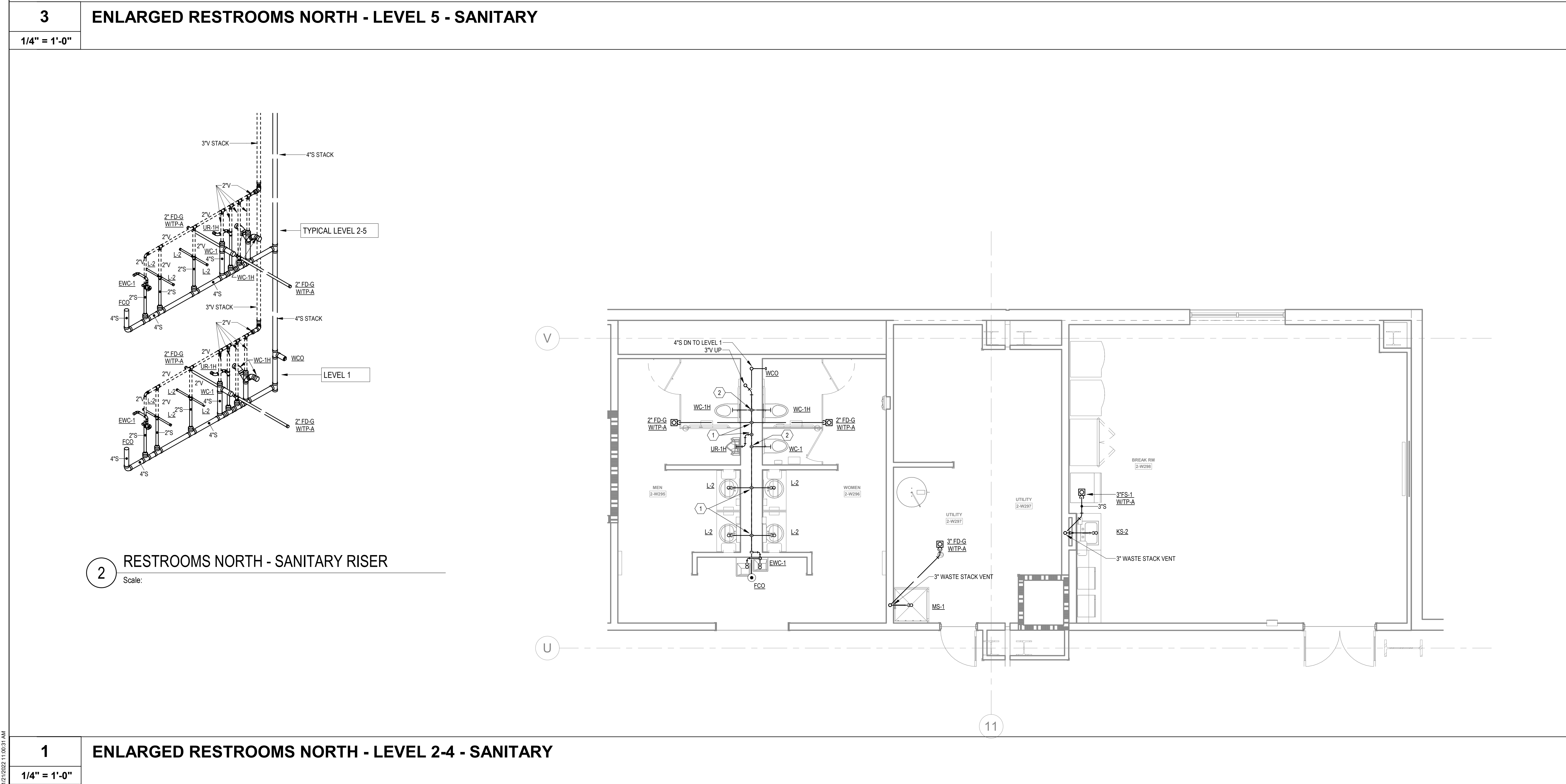
1/4" = 1'-0"

1

ENLARGED RESTROOMS SOUTH WEST - LEVEL 1-4 - WATER

1/4" = 1'-0"

1/21/2022 11:00:31 AM



KEYNOTES		
1	2" WD & 2" V UP	
2	2" V UP	
3	1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).	
4	2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.	
5	2" CW DN TO HEADER. 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" HW DN TO EACH LAV.	
6	1/2" H & CW DN.	
7	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.	
8	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.	
9	1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" HW DN TO LAV(S).	
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.	
11	1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.	
12	2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.	
13	1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.	
14	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUD COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.	

MACCREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT

JSE

Jordan & Skala Engineers

4275 Brockland Rd. • Suite 200
Rossmore, CA 95055-2997
P: 770.445.2542 • F: 770.445.0242

Project Number: 211000
Drawn By: CF
Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT WHALE

WILMINGTON, NC

SEEFRIED INDUSTRIAL PROPERTIES

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DATE

01/21/22

PROJECT NO

2021-136

SHEET TITLE

ENLARGED RESTROOM PLANS - SANITARY

SHEET NUMBER

P-406A

NOT FOR CONSTRUCTION

1/21/2022 11:00:45 AM

1

ENLARGED RESTROOMS & BREAKROOM NORTH - LEVEL 2 - WATER

1/4" = 1'-0"

2

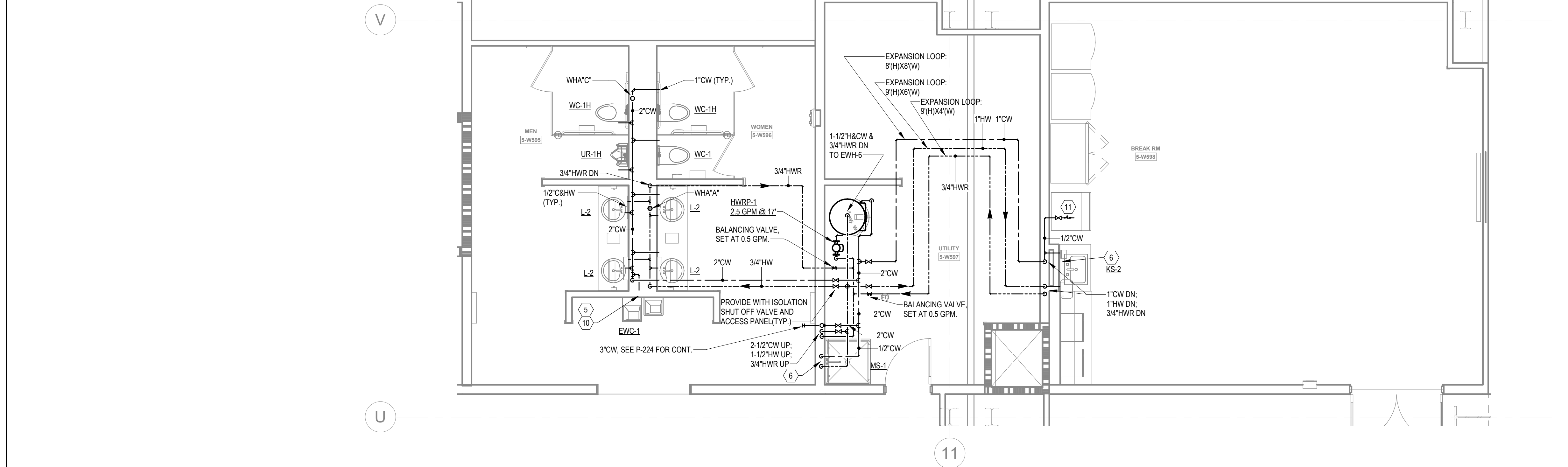
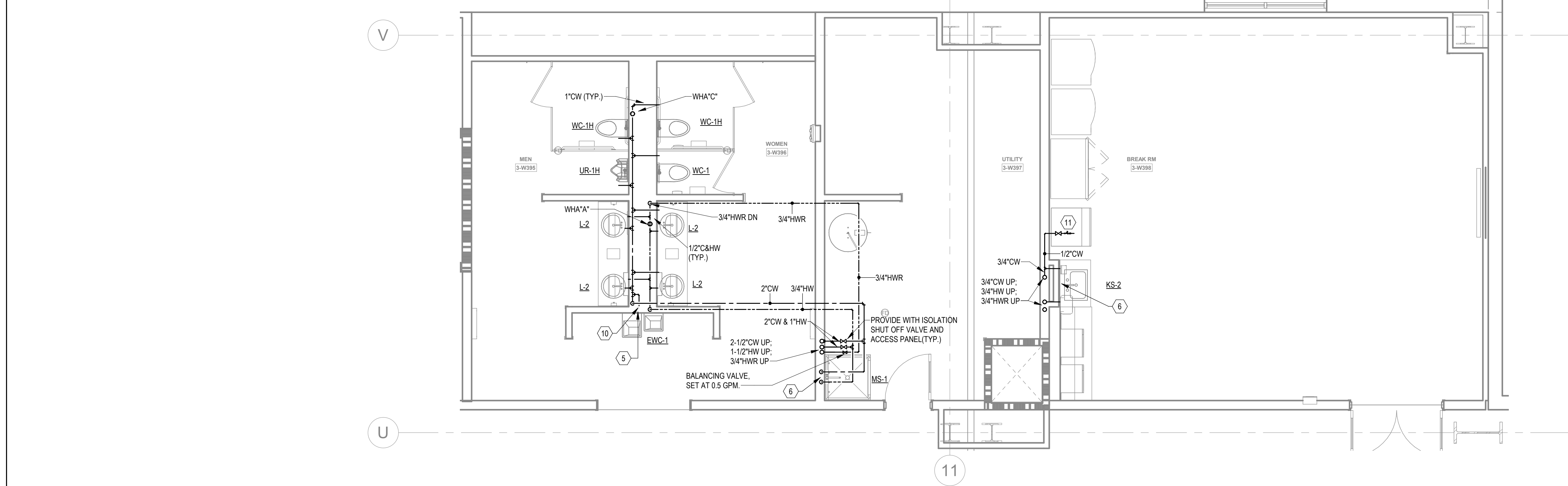
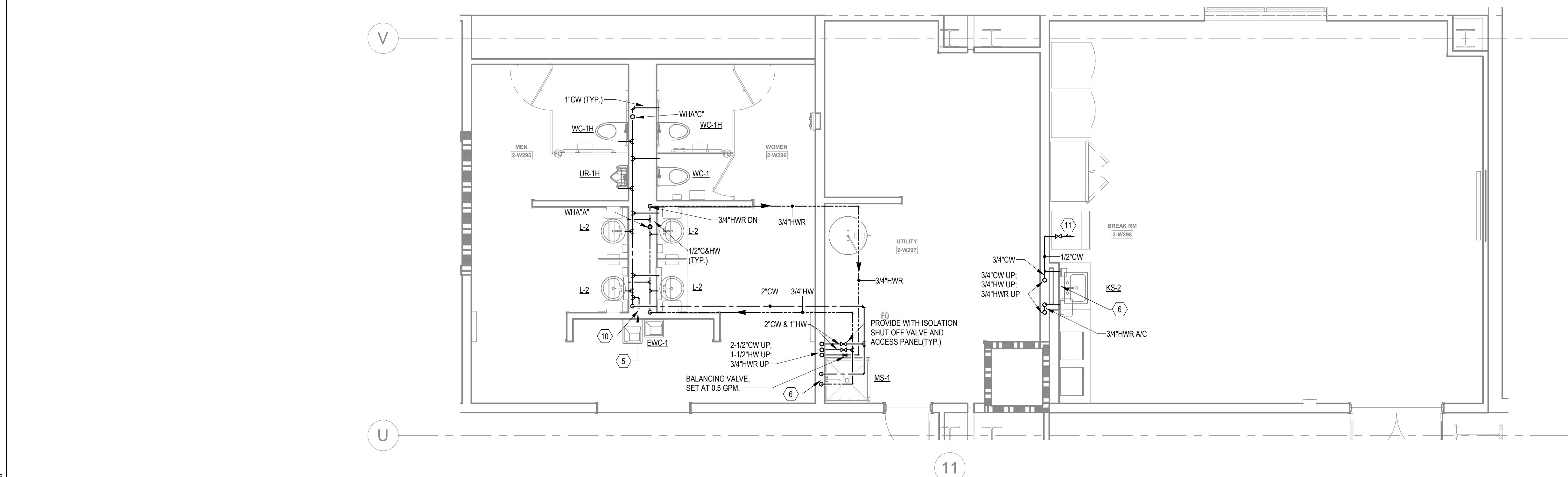
ENLARGED RESTROOMS NORTH - LEVEL 3-4 - WATER

1/4" = 1'-0"

3

ENLARGED RESTROOMS NORTH - LEVEL 5 - WATER

1/4" = 1'-0"



KEYNOTES		
1	2" WD & 2" V UP	
2	2" V UP	
3	1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).	
4	2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.	
5	2" CW DN TO HEADER. 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" H&CW TO EACH LAV.	
6	1/2" H & CW DN.	
7	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.	
8	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.	
9	1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" H&CW TO LAV(S).	
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.	
11	1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.	
12	2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.	
13	1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.	
14	PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.	



MACGREGOR ASSOCIATES ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala Engineers

4275 Stockbridge Rd. • Suite 200
Rosaros, CA 95053-2997
P: 707.445.5547 • F: 707.445.0242


Project Number: 2110020
Drawn By: Author Checked By: Checker

PRINT RECORD		
NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

ENLARGED RESTROOM PLANS - WATER

SHEET NUMBER

P-406B

NOT FOR CONSTRUCTION



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers
4275 Stockbridge Rd. • Suite 200
Rossmore, CA 95053-2997
P: 770.445.2542 • F: 770.445.0262

Project Number: 211800
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
01/21/22		BID SET

PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE

ENLARGED
RESTROOM
PLANS -
SANITARY

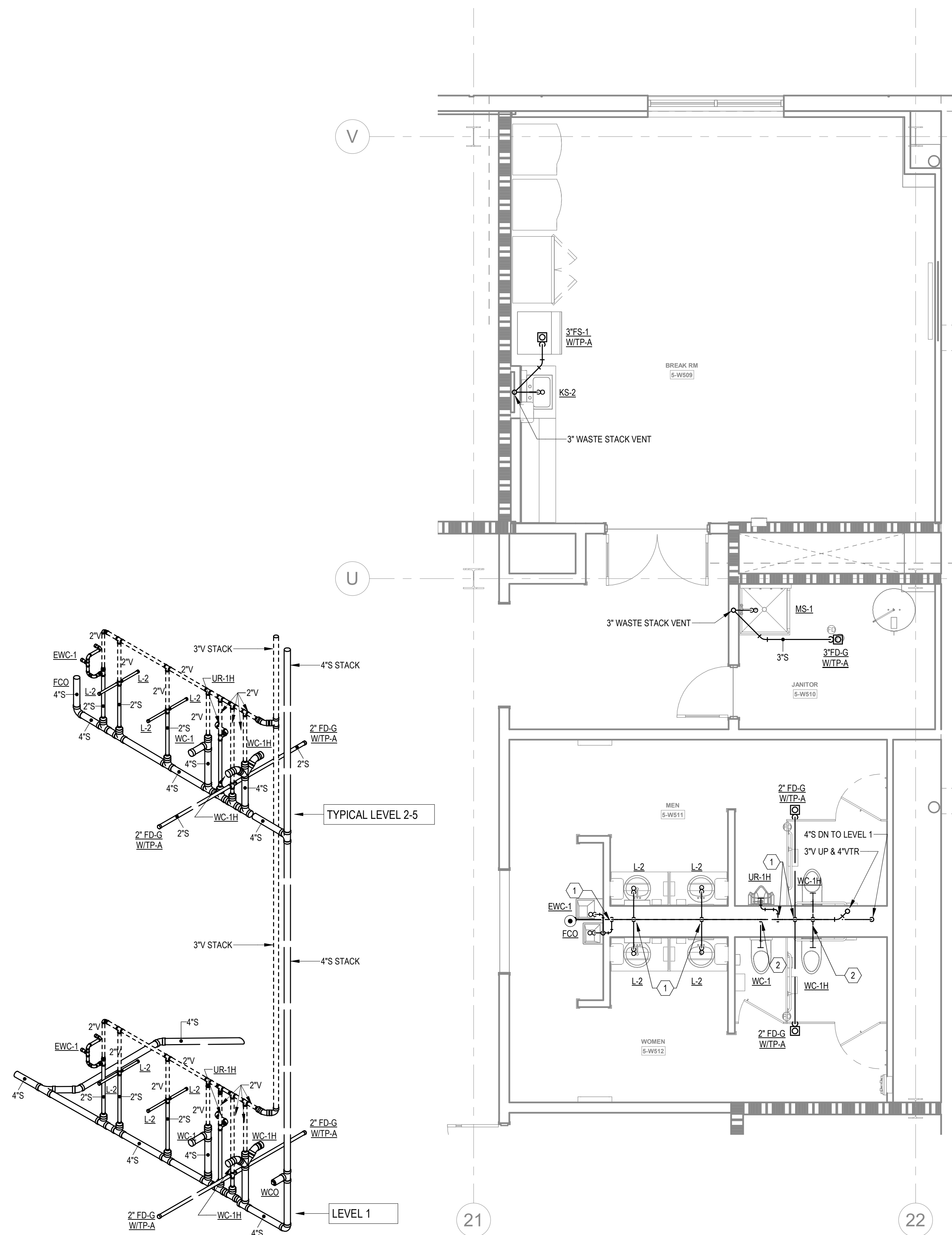
SHEET NUMBER

P-407A

NOT FOR CONSTRUCTION

KEYNOTES

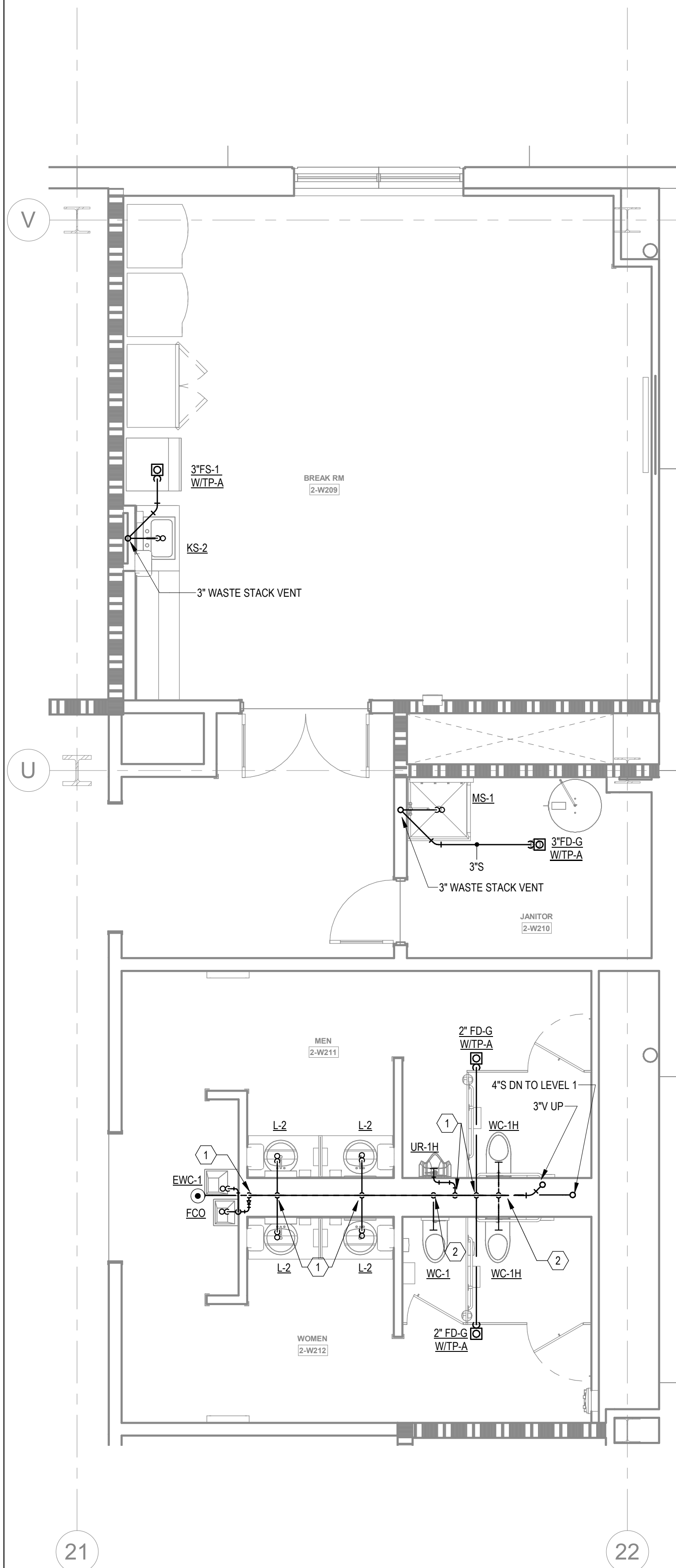
- 2" WD & 2" V UP
- 2" V UP
- 1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).
- 2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
- 2" CW DN TO HEADER. 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" HW DN TO EACH LAV.
- 1/2" H & CW DN.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
- 1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
- 1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" HW DN TO LAV(S).
- PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
- 1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
- 2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.
- 1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV.
- PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUB COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.



RESTROOMS NORTH EAST - SANITARY
RISER

4

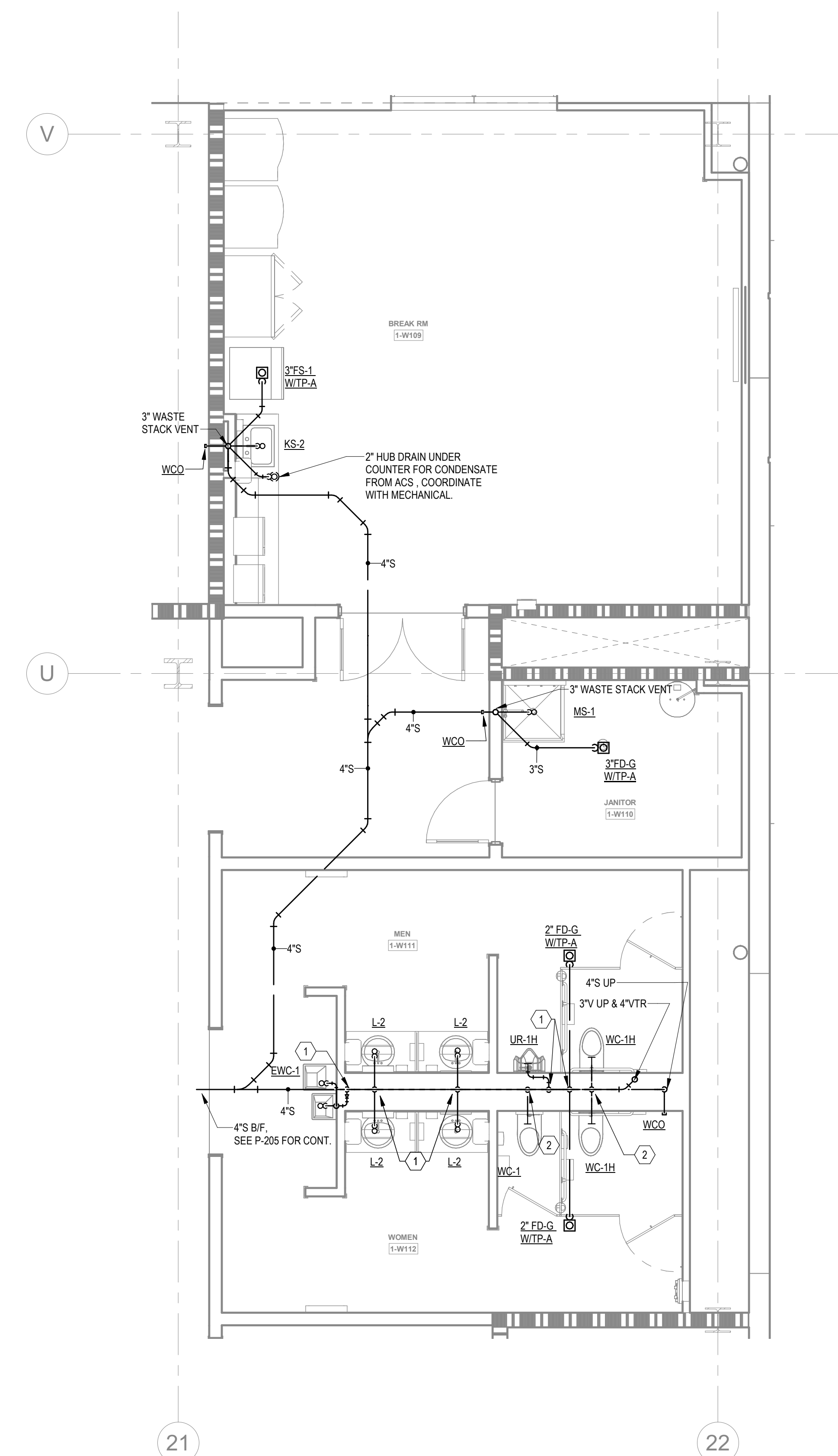
Scale:



2

ENLARGED RESTROOMS NE - LEVEL 2-4 - SANITARY

1/4" = 1'-0"



1

ENLARGED RESTROOMS NE - LEVEL 1 - SANITARY

1/4" = 1'-0"

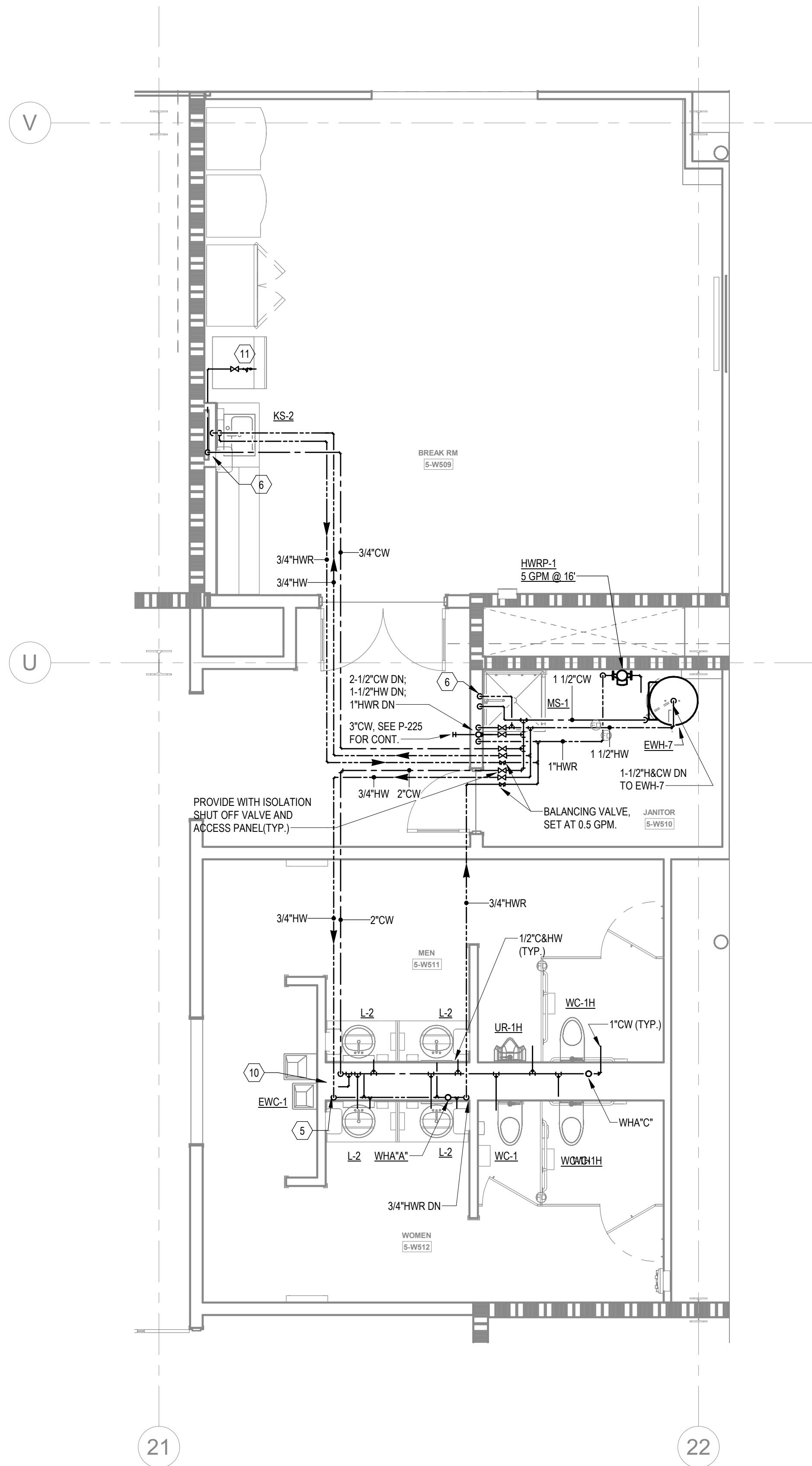
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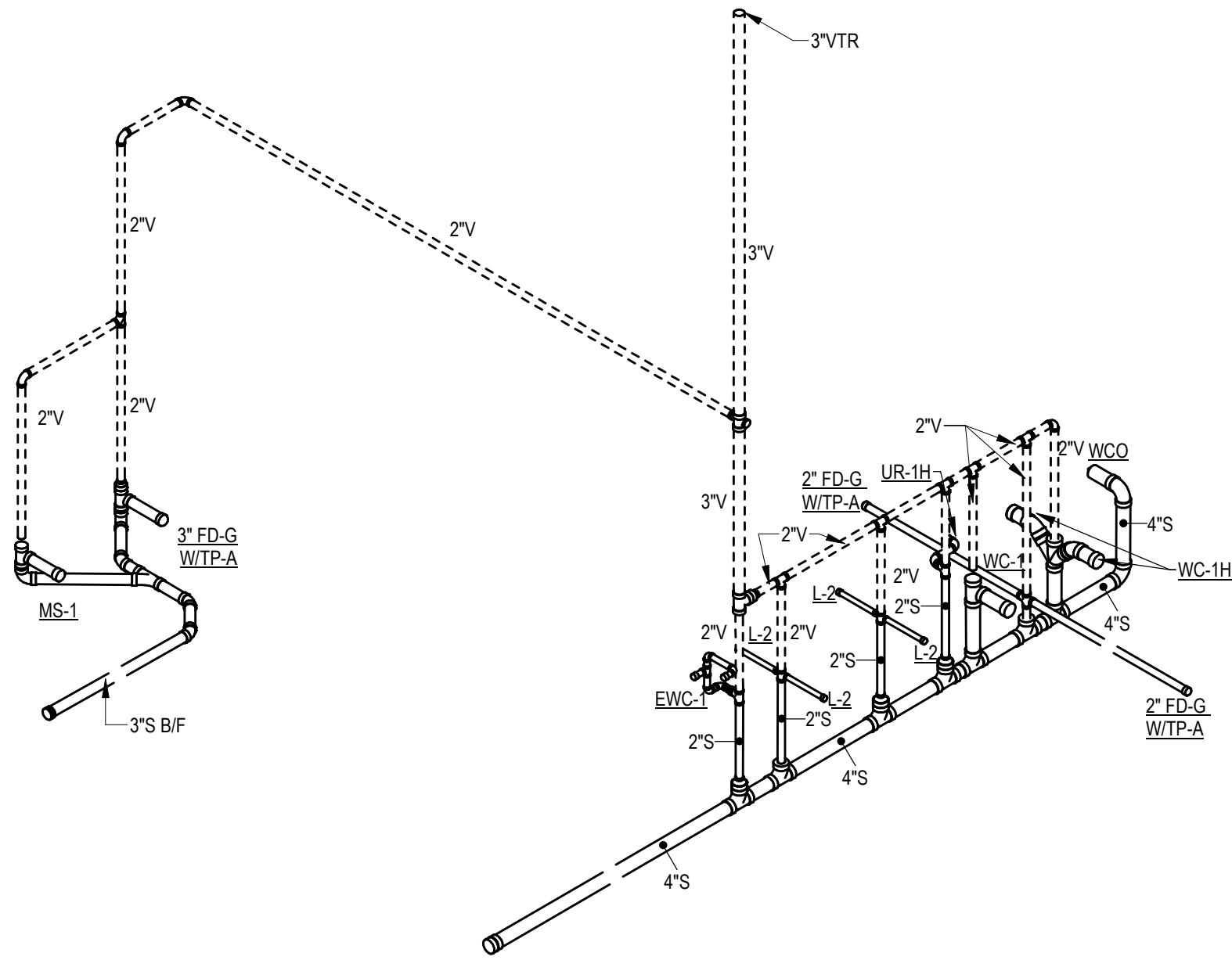
2
1/4" = 1'-0"

ENLARGED RESTROOMS NORTH EAST - LEVEL 5 - WATER

1
1/4" = 1'-0"

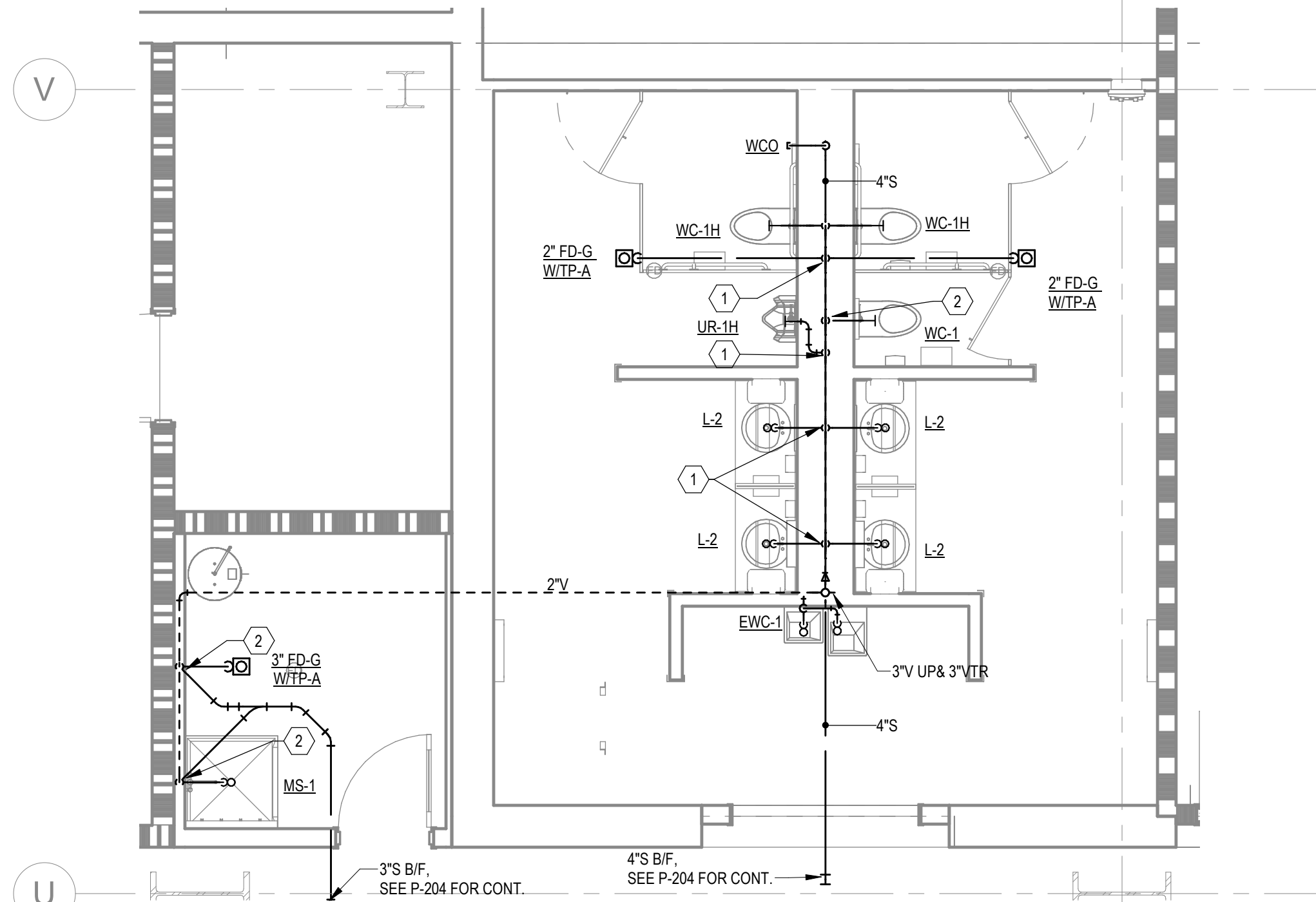
ENLARGED RESTROOMS NORTH EAST - LEVEL 1-4 - WATER





7 REMOTE TOILETS- SANITARY RISER

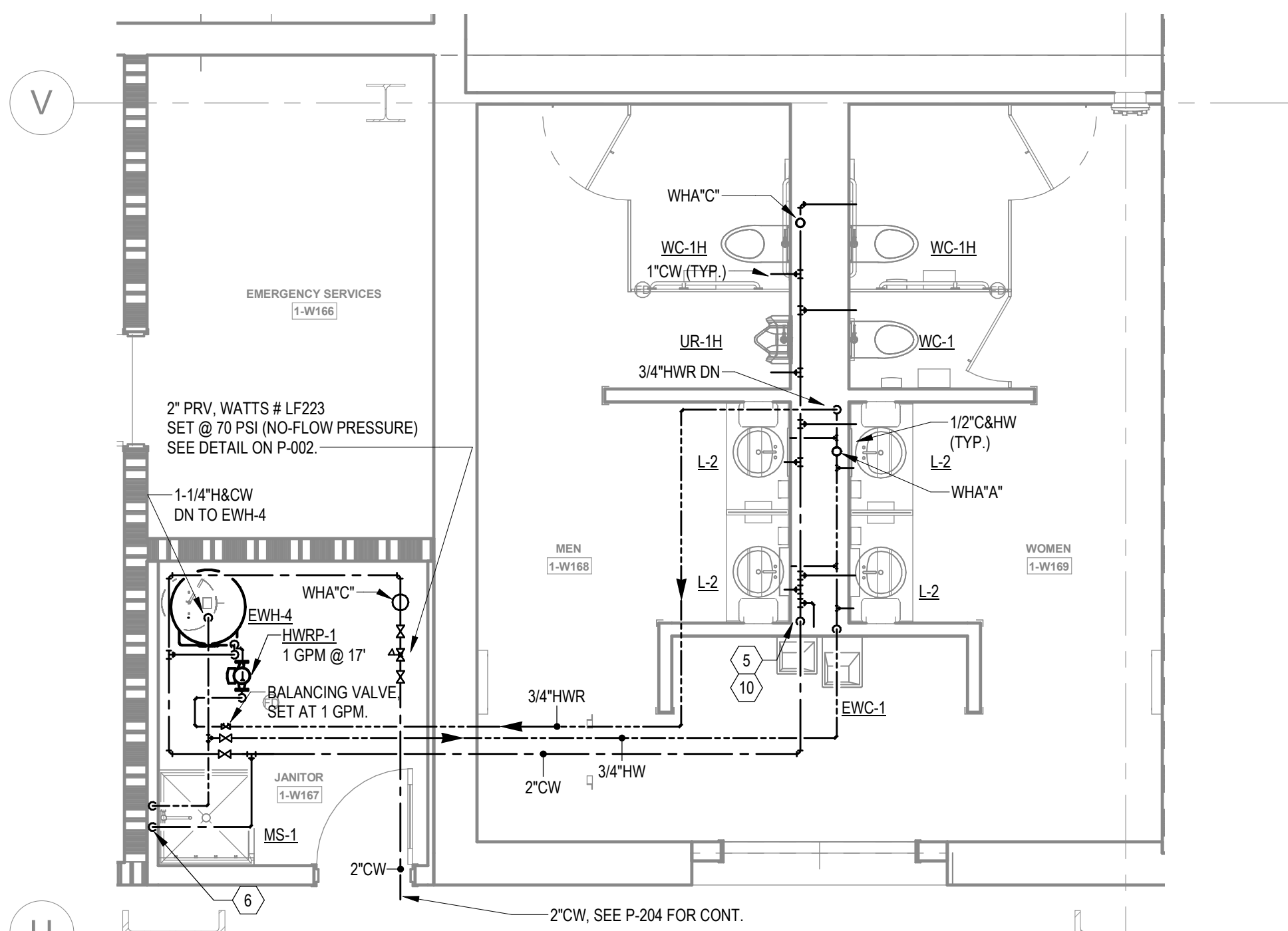
Scale:



3

ENLARGED REMOTE TOILETS - LEVEL 1 - SANITARY

1/4" = 1'-0"

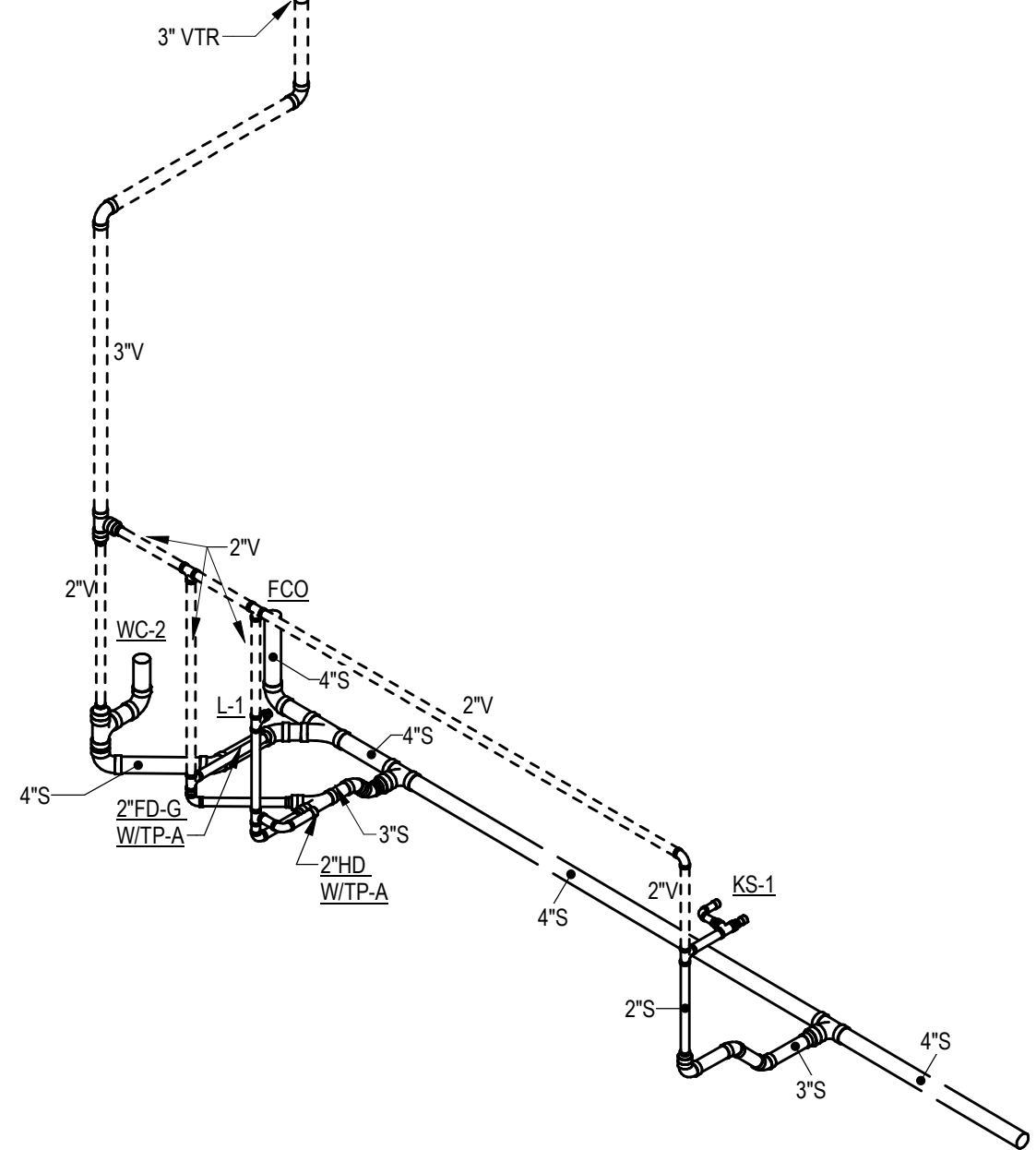


4

ENLARGED REMOTE TOILETS - LEVEL 1 - WATER

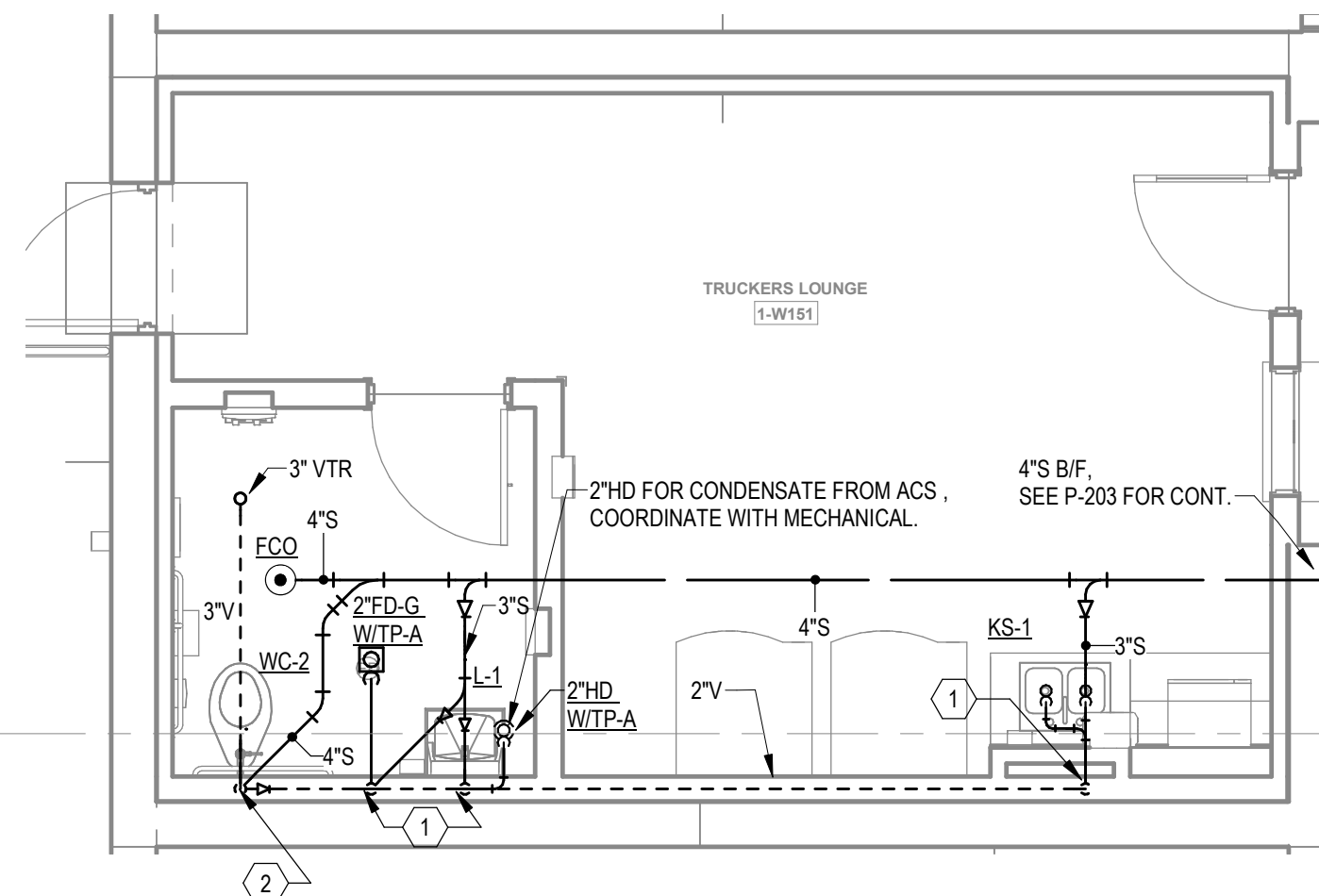
1/4" = 1'-0"

KEYNOTES	
1	2" W DN & 2" V UP
2	2" V UP
3	1/2" CW TO EWH & 1/2" CW TO LAV(S). PROVIDE 1/2" HW FOR EWH TO LAV(S).
4	2" CW DN TO HEADER. PROVIDE 1" CW TO EACH WC AND 3/4" CW TO UR.
5	2" CW DN TO HEADER. 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 3/4" TO EACH UR & 1/2" HW DN TO EACH LAV.
6	1/2" H & CW DN.
7	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV & KS.
8	1" H & CW DN TO HEADER. PROVIDE 1/2" H & CW TO EACH LAV.
9	1-1/2" CW & 3/4" HW DN TO HEADER. PROVIDE 1" CW TO EACH WC. 1/2" HW DN TO LAV(S).
10	PROVIDE 2" WASTE AND 1/2" CW FOR DRINKING FOUNTAINS.
11	1/2" CW. PROVIDE 1/2" SHUT-OFF VALVE & WATTS #SD-3 BACKFLOW PREVENTER, ASSE 1022.
12	2-1/2" CW DN TO HEADER. CONNECT 1" CW TO EACH WC.
13	1-1/2" CW DN TO HEADER. PROVIDE 1" CW TO WC AND 1/2" TO LAV. PROVIDE 1/2" WATER TAP WITH BALL VALVE AND COPPER MANIFOLD. ROUTE 1/2" COPPER PIPING FROM TAP TO EACH OWNER PROVIDED WATER COOLER. STUD COPPER PIPING 24" ABOVE FLOOR AT WATER COOLER LOCATION. PROVIDE 1/2" X 3/8" ANGLE STOP SUPPLY VALVE. ALL LOCATIONS TO BE REVIEWED BY TENANT PRIOR TO INSTALLATION.
14	



5 TRUCKERS LOUNGE - SANITARY RISER

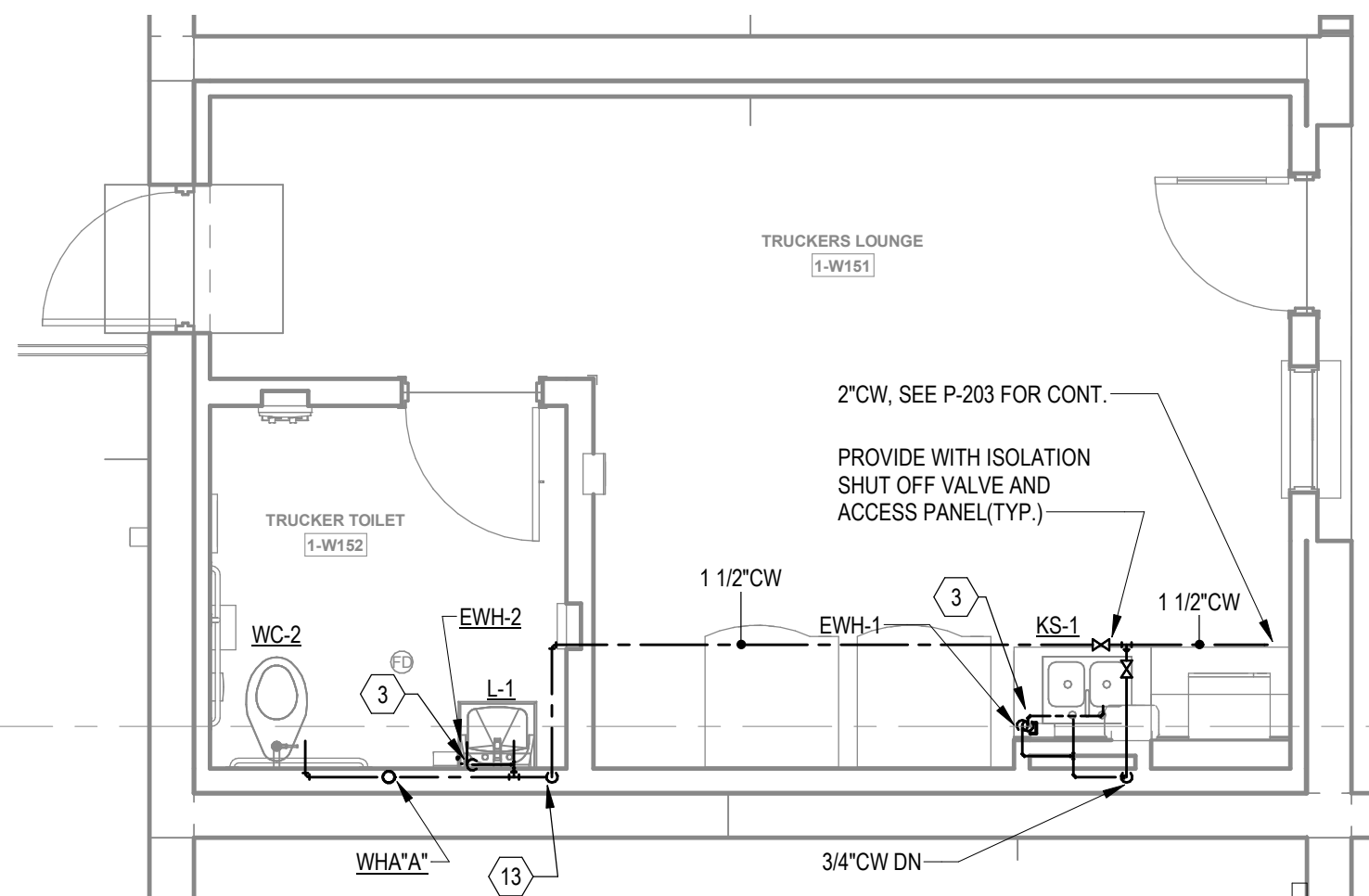
Scale:



1

ENLARGED TRUCKERS LOUNGE - SANITARY

1/4" = 1'-0"



2

ENLARGED TRUCKERS LOUNGE - WATER

1/4" = 1'-0"



MACGREGOR
ASSOCIATES
ARCHITECTS

2727 Paces Ferry Road SE
Building Two, Suite 1400
Atlanta, Georgia 30339
T 770.432.9400 F 770.432.9934

SEAL

CONSULTANT



Jordan & Skala
Engineers

4275 Brockmeier Rd. • Suite 200
Folsom, CA 95695-2997
P 707.442.5544 F 707.442.0262

Project Number: 2118000
Drawn By: CF Checked By: DHS

PRINT RECORD

NUMBER	DATE	DESCRIPTION
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01/21/22		BID SET
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PROJECT INFORMATION

PROJECT
WHALE

WILMINGTON, NC



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DATE	PROJECT NO
01/21/22	2021-136

SHEET TITLE
ENLARGED
RESTROOM
PLANS -
PLUMBING

SHEET NUMBER

P-408

NOT FOR CONSTRUCTION

