

**PLUMBING SYMBOLS LEGEND**

	CONSTRUCTION NOTE IDENTIFICATION
	DEMOLITION NOTE IDENTIFICATION
	CONNECT NEW TO EXISTING
	POINT OF DEMOLITION
	INDICATES ITEM TO BE PROVIDED
	INDICATES ITEM TO BE EXISTING
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER (120°F)
	RAINLEADER PIPING
	SOIL, WASTE OR SANITARY SEWER
	VENT PIPING
	PITCH DOWN IN DIRECTION OF ARROW
	PIPE TURNING DOWN
	PIPE TURNING UP
	BRANCH BOTTOM CONNECTION
	BRANCH SIDE CONNECTION
	BRANCH TOP CONNECTION
	CLEANOUT, FLOOR TYPE
	FLOOR DRAIN WITH DEEP SEAL P-TRAP
	HOSE BIBB (HB)
	WALL HYDRANT (WH)
	UNION
	WALL CLEANOUT
	CLEANOUT
	VENT THROUGH ROOF - DIAGRAMMATIC
	WATER HAMMER ARRESTOR
	CONT., CONTINUATION
	BREAK

**VALVES AND ACCESSORIES LEGEND**

	BALL VALVE
	CAPPED PIPE
	CHECK VALVE
	DIRECTION OF FLOW
	FLANGED CONNECTION
	MIXING VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	STRAINER
	THERMOMETER
	VACUUM BREAKER

**PLUMBING ABBREVIATIONS**

ABBR	ABBREVIATION
ABV	ABOVE
AFB	ABOVE FINISHED FLOOR
BEL	BELOW
BET	BETWEEN
BFF	BELOW FINISHED FLOOR
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUED
CORD	COORDINATE
DCW	DOMESTIC COLD WATER
DEMO	DEMOLISH
DHW	DOMESTIC HOT WATER
DIA, Ø	DIAMETER
DN	DOWN
EA	EACH
ELEV	ELEVATION
EW	ELECTRIC WATER COOLER
EXIST (E)	EXISTING
F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OWNER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FR	FROM
FT	FEET
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HC	HANDICAP
IN	INCH, INCHES
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MH	MOUNTING HEIGHT
MIN	MINIMUM
MTD	MOUNTED
NIC	NOT IN CONTRACT
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
REQD	REQUIRED
RL	RAINLEADER
S	SINK
SAN	SANITARY WASTE
SH	SHEET
SIM	SIMILAR
SPR	SPRINKLER
TEMP	TEMPERATURE
TYP	TYPICAL
UR	URINAL
V	SANITARY VENT
VTR	VENT THROUGH ROOF
WC	WATER COLUMN
WC	WATER CLOSET
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER

**GENERAL SUMMARY OF PLUMBING WORK**

- DEMOLISH EXISTING PLUMBING IN TOILET ROOMS AND BREAK ROOM.
- PROVIDE NEW PLUMBING FIXTURES AND PIPING. CONNECT NEW PIPING TO EXISTING.
- PROVIDE TRAPGUARD MECHANICAL SEALS FOR NEW AND EXISTING FLOOR DRAINS.
- RE-USE EXISTING PLUMBING VENTS THROUGH THE ROOF.
- DO NOT BLOCK THE ROOF ACCESS HATCH LOCATED IN THE EXISTING JANITOR'S CLOSET WITH NEW WORK.

**SPRINKLER - FIRE PROTECTION GENERAL NOTES**

- SCOPE OF WORK SHALL INCLUDE A FULLY FUNCTIONAL WET PIPE SPRINKLER SYSTEM WITHIN THE AREA OF WORK. EXTEND NEW PIPING AS REQUIRED TO NEW SPRINKLER HEAD LOCATIONS CONFORMING TO THE REQUIREMENTS OF NFPA 13 AND THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2021 EDITION. SPRINKLER SYSTEM TO COMPLY WITH ALL CODES AND THE AUTHORITY HAVING JURISDICTION (AHJ). SUBMIT SHOP DRAWINGS (DRAWINGS, MATERIAL DATA AND HYDROLOGICAL CALCULATIONS) TO THE AHJ AND ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL BEFORE INSTALLATION OF WORK.
- THE BUILDING WILL REMAIN OCCUPIED AND IN SERVICE DURING THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK IN PHASES TO ENSURE THE FIRE PROTECTION SYSTEM REMAINS FUNCTIONAL IN ACCORDANCE WITH NFPA 13 AND LOCAL FIRE CODES AT ALL TIMES. SHUTDOWNS MUST BE SCHEDULED, APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ), AND LIMITED TO THE MINIMUM TIME NECESSARY. THE CONTRACTOR SHALL PROVIDE A 24-HOUR, 7-DAY-A-WEEK FIRE WATCH WHENEVER ANY PART OF THE SYSTEM IS OUT OF SERVICE.
- COORDINATE WORK WITH OWNER INCLUDING TIME AND LOCATION OF WORK TO BE PERFORMED.
- CONTRACTOR SHALL ADJUST EXISTING SPRINKLER HEAD LAYOUT TO ACCOMMODATE NEW INTERIOR PARTITIONS AND NEW CEILING CONFIGURATIONS..
- UTILIZE EXISTING SPRINKLER PIPING AS MUCH AS PRACTICAL IN AREAS WHERE THE CEILING GRID WILL BE COMPLETELY DEMOLISHED. IN AREAS WHERE THE EXISTING CEILING GRID WILL REMAIN AND EXISTING CEILING TILES WILL BE REPLACED, UTILIZE EXISTING SPRINKLER HEADS, PIPING AND ESCUTCHEONS WHERE PRACTICAL.

**GENERAL PLUMBING NOTES**

- DIVISION 22 PLUMBING WORK INCLUDES DOMESTIC HOT AND COLD-WATER AND SOIL, WASTE, AND VENT SYSTEMS INSIDE BUILDING.
- FOR RENOVATION PROJECTS, CONTRACTOR SHALL VISIT JOB SITE PRIOR TO SUBMITTING A BID TO REVIEW THE CONDITIONS AT THE SITE AND INFORM THEMSELVES OF ALL DETAILS.
- COMPLY WITH FOLLOW 2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC).
- COORDINATE ALL BUILDING SANITARY AND DOMESTIC WATER CONNECTIONS WITH CIVIL DRAWINGS AND CIVIL ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK UNDER THIS SECTION WITH ALL TRADES AND SUBCONTRACTORS.
- PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE AND IS NOT INTENDED TO INDICATE EXACT LOCATION OF PIPING AND VALVES. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN PROPER CLEARANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK AND MATERIAL UNDER THIS CONTRACT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED.
- COORDINATE WORK WITH OWNER, INCLUDING TIME AND LOCATION OF WORK, LOW NOISE TIMES AND AREAS, AS WELL AS WITH UTILITIES. CONTRACTOR SHALL COORDINATE WITH OWNER USE OF TOILETS, UTILITIES, ETC.
- INSTALL ALL FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MANUFACTURER'S RECOMMENDED ACCESS AND SERVICE CLEARANCES.
- PROVIDE ALL MISCELLANEOUS WORK, EQUIPMENT, MATERIALS, PIPING, VALVES, CONTROLS, INSULATION, CONNECTIONS, SPECIALTIES, AND ASSOCIATED PARTS REQUIRED TO COMPLETE THE WORK.
- ALL ELECTRICAL APPARATUS FURNISHED UNDER THIS SECTION SHALL BE APPROVED BY THE UNDERWRITERS' LABORATORIES AND SHALL BE SO LABELED OR LISTED WHERE SUCH IS APPLICABLE.
- PIPES PASSING THROUGH OR UNDER WALLS OR FOOTING BELOW GRADE SHALL BE PROVIDED WITH SLEEVES.
- ESCUTCHEONS: PROVIDE NICKEL OR CHROMIUM PLATED FLOOR, WALL, AND CEILING PLATES AROUND ALL EXPOSED BARE AND INSULATED PIPES WHERE THEY PASS THROUGH OR INTO FLOORS, WALLS, AND CEILINGS OF FINISHED AND OCCUPIED SPACES. IN THE CASE OF INSULATED PIPES, THE PLATES SHALL FIT THE INSULATION SNUGLY.
- CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES OR AS SPECIFICALLY NOTED.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS WITH LISTED ASSEMBLIES AND SLEEVE WHERE REQUIRED.
- PROVIDE ACCESS PANELS TO ALL VALVES AND WATER HAMMER ARRESTERS LOCATED WITHIN CHASES OR NON-ACCESSIBLE CEILINGS, EXCEPT IN MECHANICAL ROOMS OR UTILITY ROOMS UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED UNLESS OTHERWISE INDICATED.
- CHECK ALL PIPING FOR PROPER PITCH PRIOR TO SUBSTANTIAL COMPLETION.
- PIPING SHALL BE HUNG TO TRUE ALIGNMENT, USING APPROPRIATE AND SUBSTANTIAL HANGER ARRANGEMENTS. HANGERS SHALL BE LOCATED SO THAT PIPING AND HANGERS WILL BE CLEAR OF OTHER PIPING, HANGERS, CONDUITS, LIGHTING FIXTURES, EQUIPMENT, CEILING SUSPENSION SYSTEMS, DUCTWORK, ETC. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR LINE WITH PIPE CLAMPS.
- PIPE HANGERS AS REQUIRED SHALL BE OF THE SAME METAL AS PIPE BEING SUPPORTED, EXCEPT USE STEEL PIPE HANGERS FOR PLASTIC PIPE. SUPPORT PIPE PER MANUFACTURER'S INSTRUCTIONS.
- WHERE ADA COMPLIANT FIXTURES ARE INDICATED, SPECIFICALLY COORDINATE LOCATION AND MOUNTING HEIGHT OF FIXTURES TO COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE FIXTURES.
- PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING FIXTURES OR BATTERY OF FIXTURES THAT UTILIZE QUICK-CLOSING VALVES. SIZE PER MANUFACTURER REQUIREMENTS.
- PROVIDE DIELECTRIC UNIONS WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR METALS.
- PROVIDE FIXED AIR GAPS ON ALL INDIRECT WASTE CONNECTIONS.
- PROVIDE CLEANOUTS FOR SANITARY AND STORM PIPING AS INDICATED ON DRAWINGS AND AS REQUIRED BY CODE.
- CONTRACTOR SHALL VERIFY ALL EXISTING SANITARY PENETRATIONS THAT ARE NO LONGER NEEDED, TO BE CUT BELOW SLAB AND CAP.
- INSTALL HOSE BIBBS AND WALL HYDRANTS 18 INCHES AFF UNLESS OTHERWISE DIRECTED.
- TERMINATE PLUMBING VENTS AT LEAST 10 FEET FROM VENTILATION INTAKES AND AT LEAST 3 FEET ABOVE WINDOWS, DOORS AND OTHER OPENINGS. TERMINATE 12" ABOVE ROOF LINE.



**RENOVATIONS TO  
JOHN W. VAUGHAN  
M+S BUILDING  
(METER & STORES)  
AMERICAN ELECTRIC POWER**

SPECTRUM DESIGN PROJECT NO.: 25020



PROJ. MGR.: **MAR** CHECKED BY: **GEG, TLP** DRAWN BY: **MKJ**

SHEET ISSUE DATE: **12.22.2025**

PROJECT PHASE: **PERMIT DOCUMENTS**

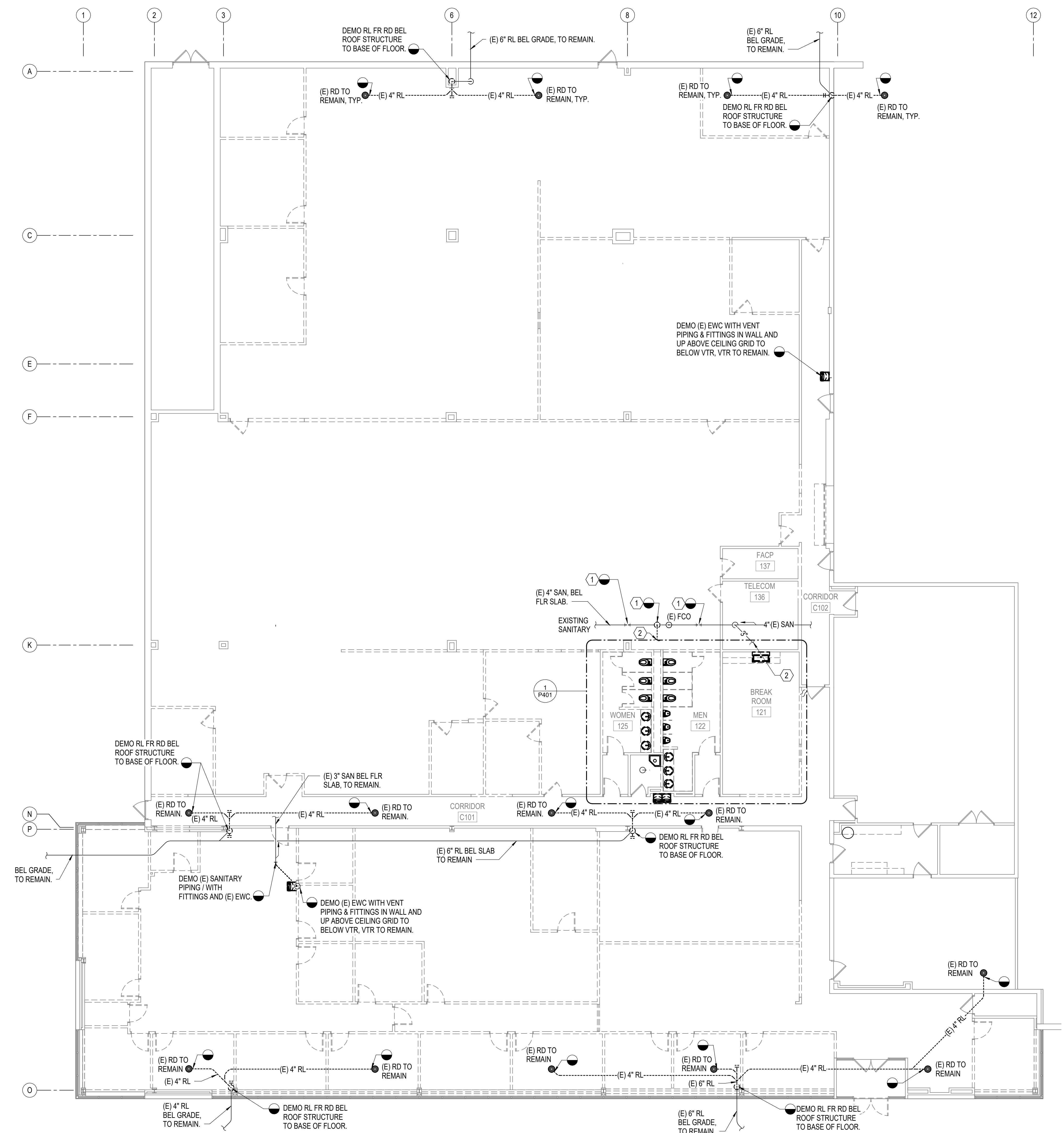
SHEET REVISIONS:



SHEET NAME:  
**PLUMBING - NOTES,  
LEGEND, AND  
SCHEDULES**

SHEET NUMBER:  
**P001**

#	DEMOLITION NOTES
1	DEMOLISH AND PREPARE FOR NEW CONNECTION BELOW FLOOR.
2	FOR CONTINUATION SEE SHEET P401 ENLARGED FLOOR PLAN - SANITARY PIPING - DEMOLITION DETAIL 1.
3	NOT USED.

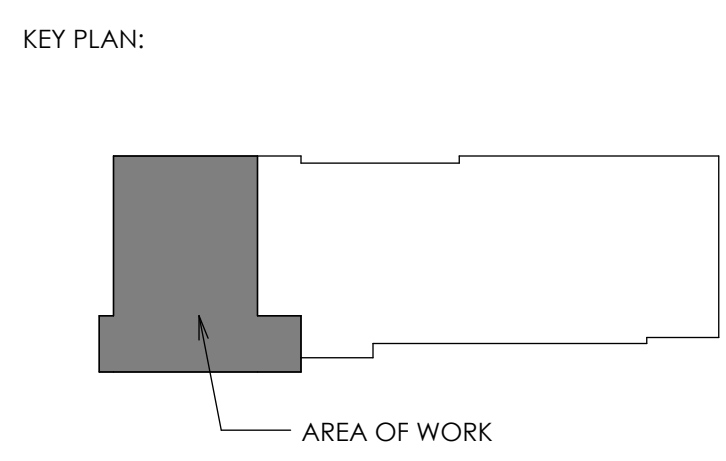


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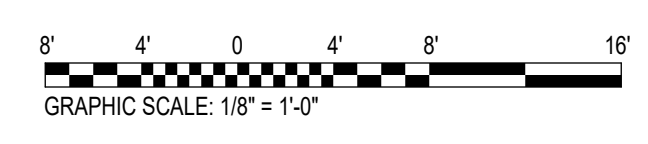
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SHEET ISSUE DATE: **12.22.2025**  
PROJECT PHASE: **PERMIT DOCUMENTS**  
SHEET REVISIONS:



SHEET NAME:  
**PLUMBING -  
DEMOLITION FLOOR  
PLAN - SANITARY  
PIPING**  
SHEET NUMBER:

**P041**

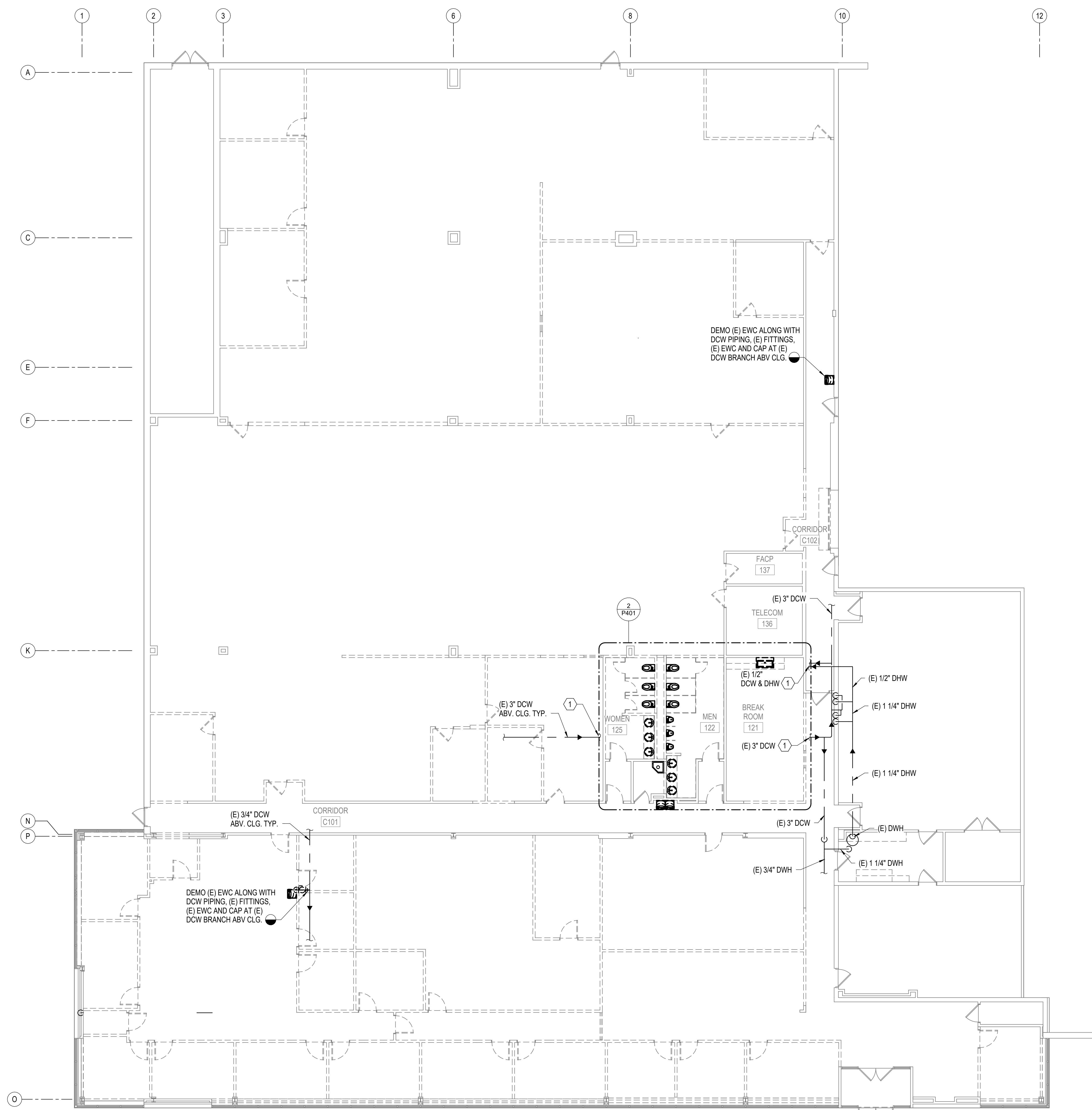
**1 PLUMBING - DEMOLITION FLOOR PLAN - SANITARY PIPING**  
P041 SCALE: 1/8" = 1'-0"



#	DEMOLITION NOTES
1	FOR CONTINUATION SEE P401 ENLARGED TOILET PLANS DETAIL 2 ENLARGED FLOOR PLAN - DOMESTIC WATER PIPING - DEMOLITION.



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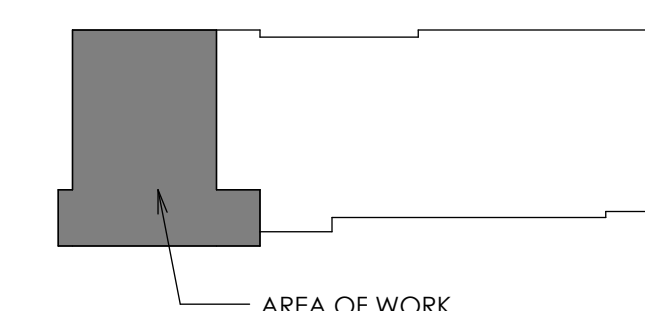
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PROJECT PHASE:  
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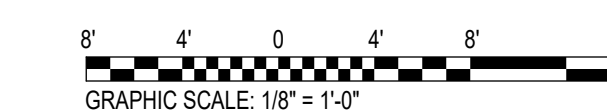
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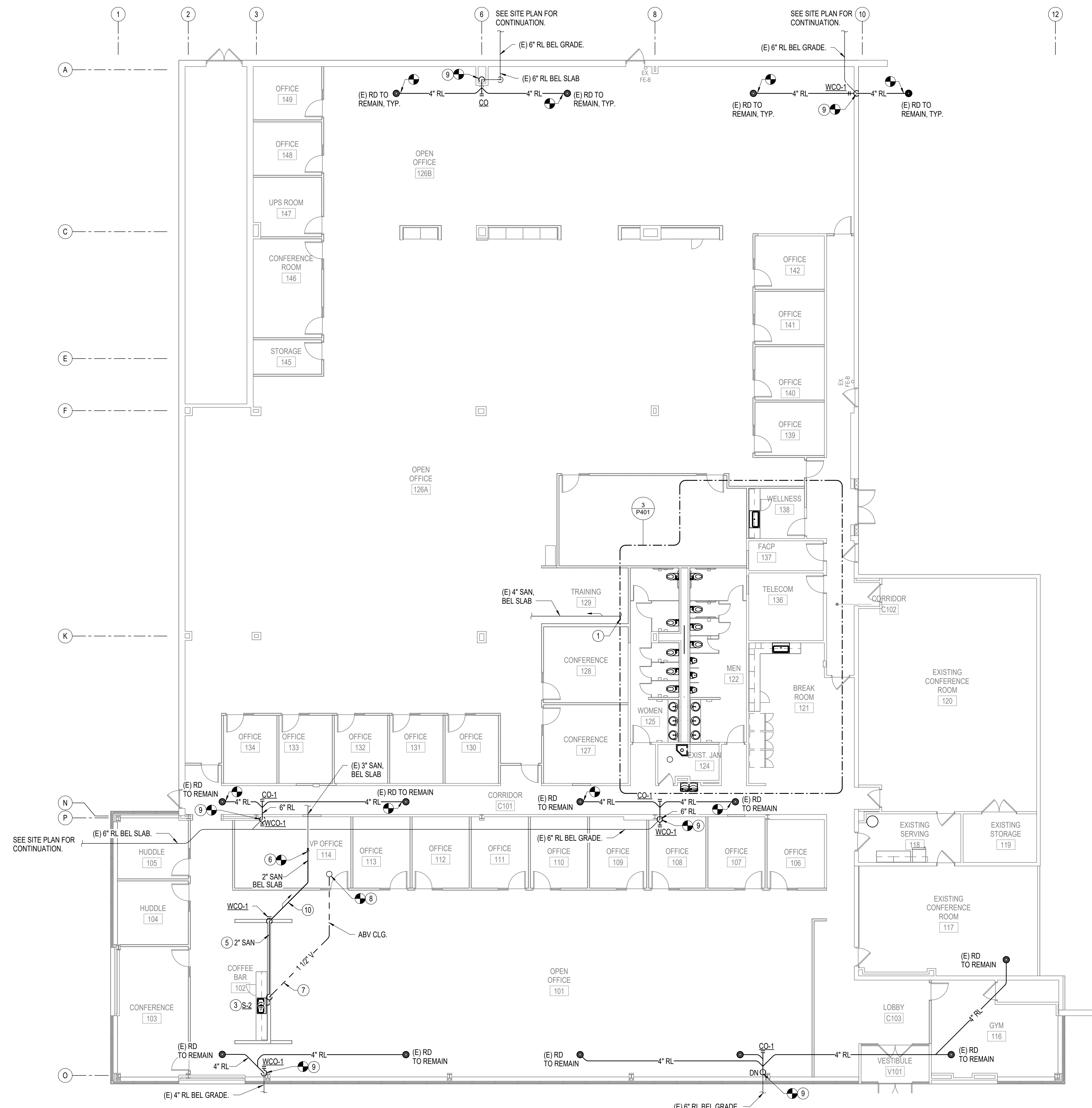
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**PLUMBING -  
DEMOLITION FLOOR  
PLAN - WATER PIPING**

SHEET NUMBER:

**P042**

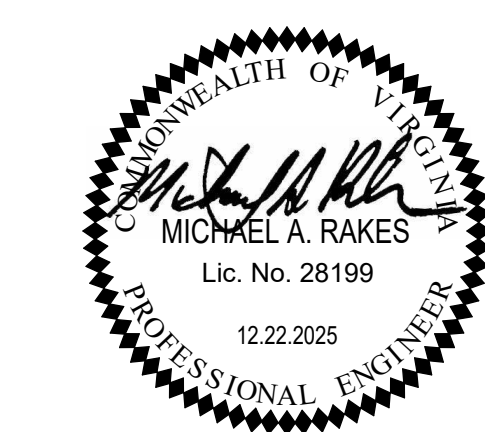


#	NEW NOTES
1	FOR CONTINUATION SEE P401 ENLARGED TOILET FLOOR PLAN - DETAIL 3 - ENLARGED TOILET FLOOR PLAN - SANITARY PIPING - NEW WORK.
2	NOT USED.
3	NEW SINK S-2. SEE SHEET P501 DETAIL - INSTANTANEOUS ELECTRIC WATER HEATER (DWH-1).
4	NOT USED.
5	CONNECT NEW 2" SAN PIPING FROM NEW SINK S-2 ABOVE FLOOR TO THE END OF WALL BEFORE DROPPING DOWN BELOW SLAB.
6	CONNECT NEW 2" SAN PIPING TO EXISTING 3" SANITARY PIPING BELOW SLAB.
7	CONNECT NEW 1 1/2" V PIPING FROM S-1 TO EXISTING 3" VENT PIPING ABOVE CEILING.
8	EXISTING 3" VENT PIPING ABOVE CEILING TO VTR.
9	ROUTE NEW RAINLEADER PIPING AND FITTINGS FROM AFF UP TO EXISTING ROOF DRAINS. ROOF DRAIN TO REMAIN.
10	PRIOR TO ANY SLAB DEMOLITION THE CONTRACTOR SHALL HAVE THE SLAB SCANNED WITHIN THE VICINITY OF WORK FOR EXISTING BELOW SLAB POWER. CONTRACTOR SHALL DOCUMENT AND PROVIDE EVIDENCE OF SUCCESSFUL SCAN.



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SPECTRUM DESIGN PROJECT NO.: 25020



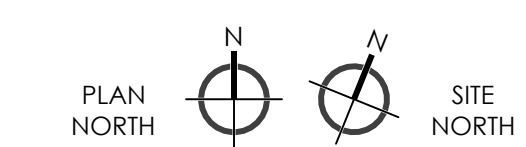
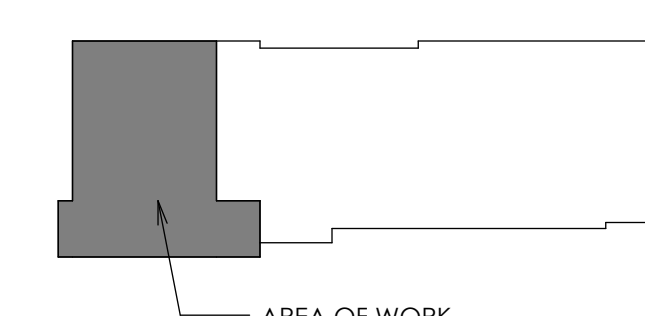
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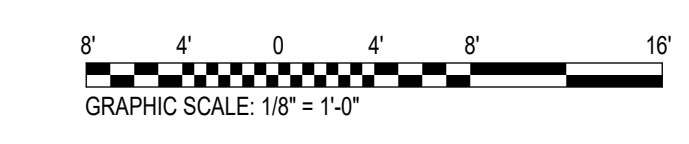
SHEET REVISIONS:

KEY PLAN:



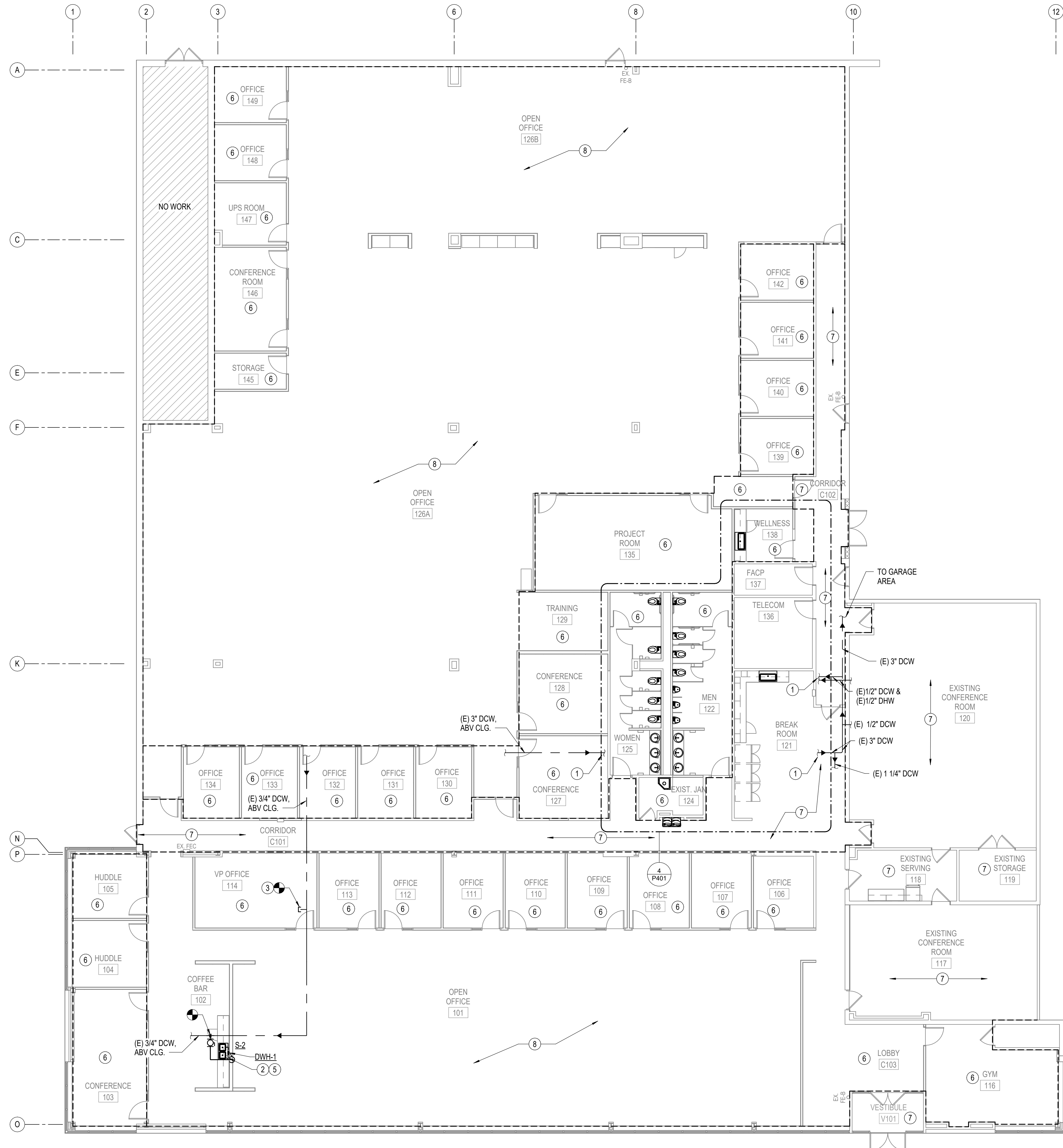
SHEET NAME:  
**PLUMBING - FLOOR  
PLAN - SANITARY  
PIPING**

SHEET NUMBER:  
**P101**



**1 PLUMBING - FLOOR PLAN - SANITARY PIPING - NEW WORK**  
P101 SCALE: 1/8" = 1'-0"

#	NEW NOTES
1	SEE SHEET P401 ENLARGED TOILET PLAN - FLOOR PLAN - DOMESTIC WATER PIPING - NEW WORK - DETAIL 4.
2	SEE SHEET P501 FOR DETAIL - INSTANTANEOUS ELECTRIC WATER HEATER (DWH-1).
3	CAP EXISTING DCW PIPING.
4	NOT USED.
5	CONNECT NEW 1/2" DCW PIPING TO S-2 AND TO DWH-1 BELOW COUNTERTOP. CONNECT DWH TO S-2 FROM DWH-1.
6	SEE - ARCHITECTURAL SHEET A102 REFLECTED CEILING PLAN - FOR SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM - NEW PANELS AND NEW SUSPENSION GRID.
7	SEE - ARCHITECTURAL SHEET A102 REFLECTED CEILING PLAN - FOR SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM - NEW PANELS IN EXISTING SUSPENDED GRID.
8	SEE - ARCHITECTURAL SHEET A102 REFLECTED CEILING PLAN - FOR EXPOSED STRUCTURE AND METAL DECK ABOVE.



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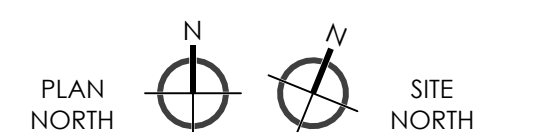
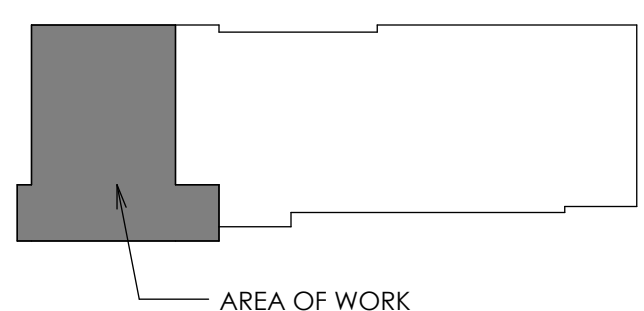
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**12.22.2025**

PROJECT PHASE:  
**PERMIT DOCUMENTS**

SHEET REVISIONS:

KEY PLAN:



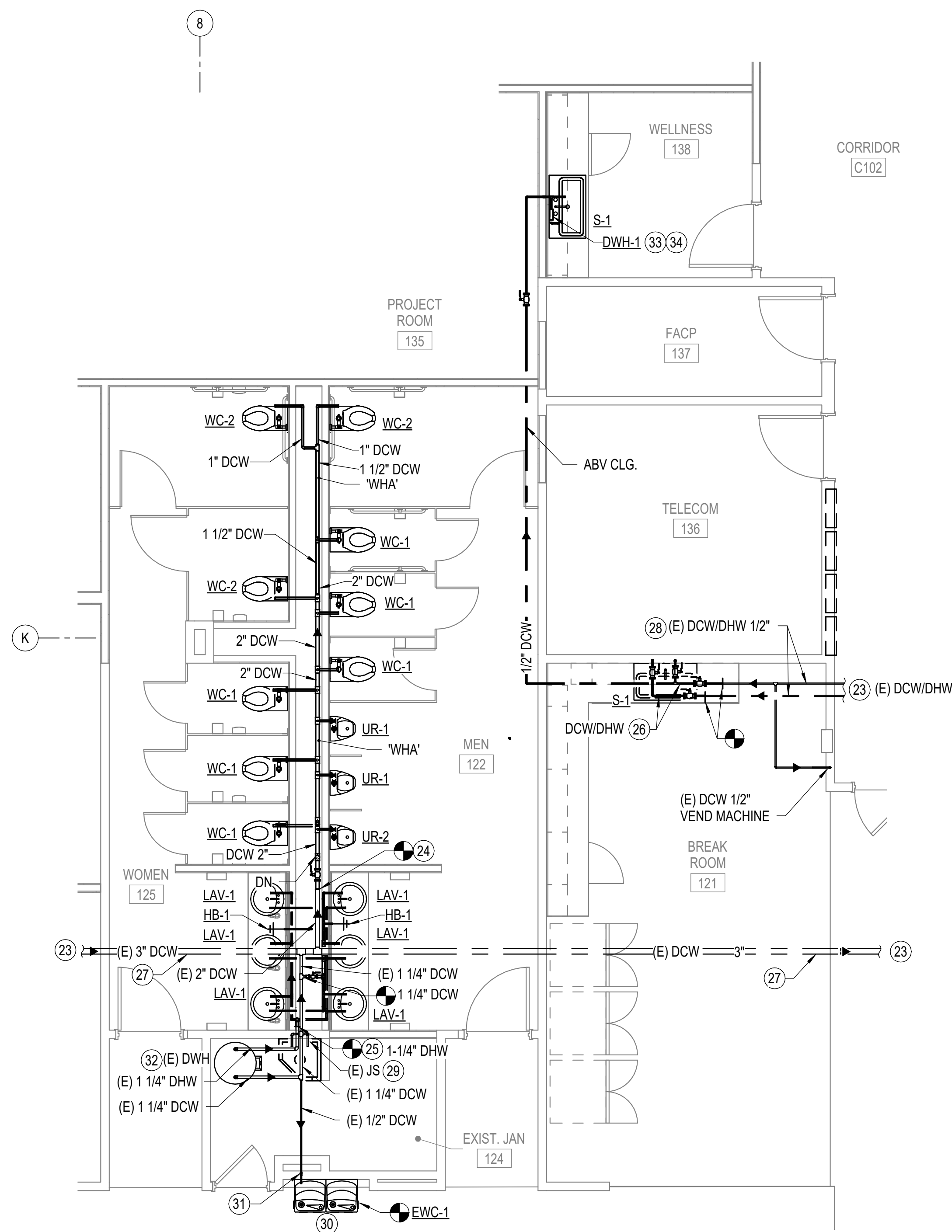
SHEET NAME:  
**PLUMBING - FLOOR  
PLAN - WATER PIPING**

SHEET NUMBER:

**P102**

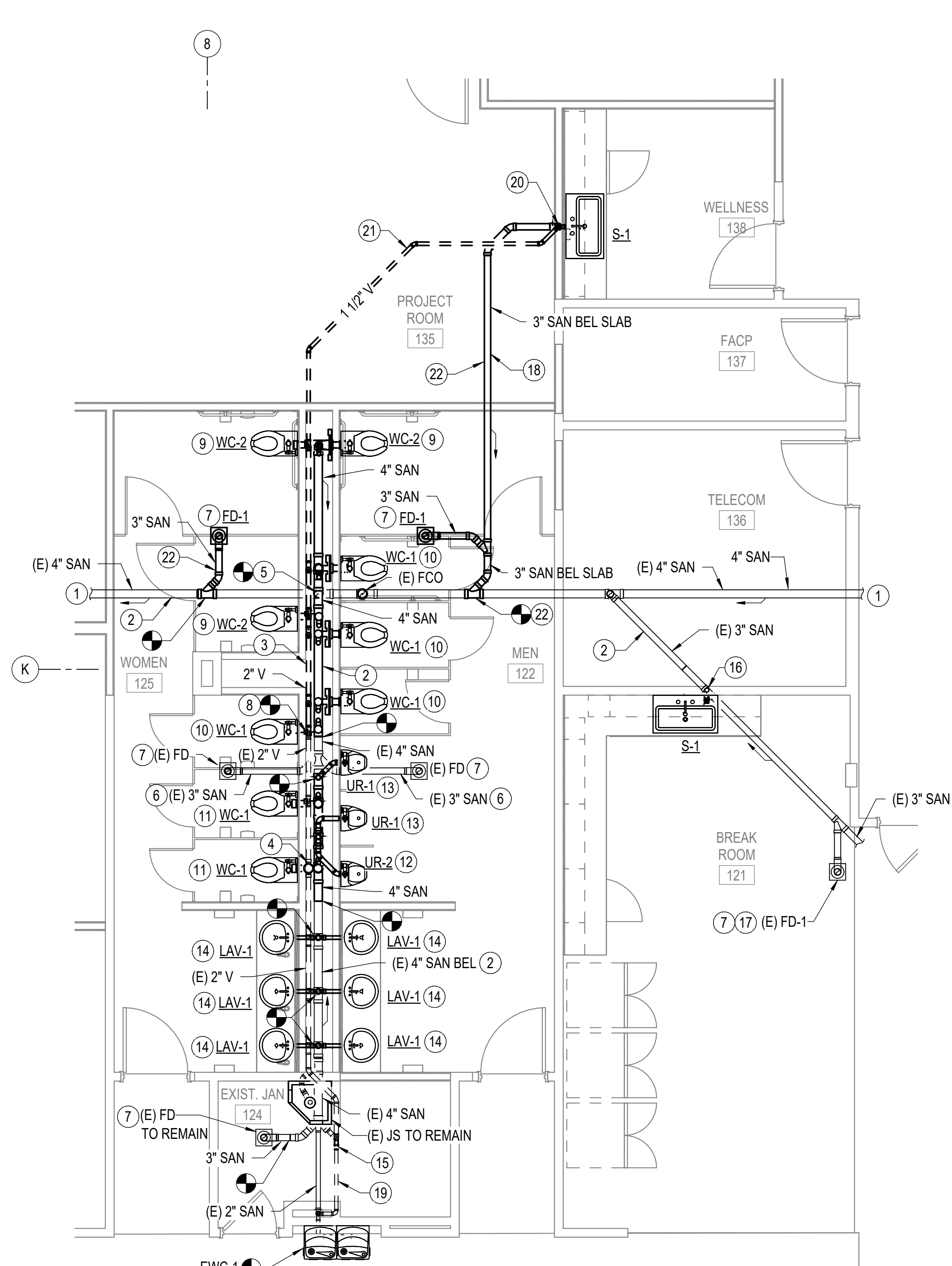
**1 FIRST FLOOR - DOMESTIC WATER PIPING - NEW WORK**  
P102 SCALE: 1/8" = 1'-0"





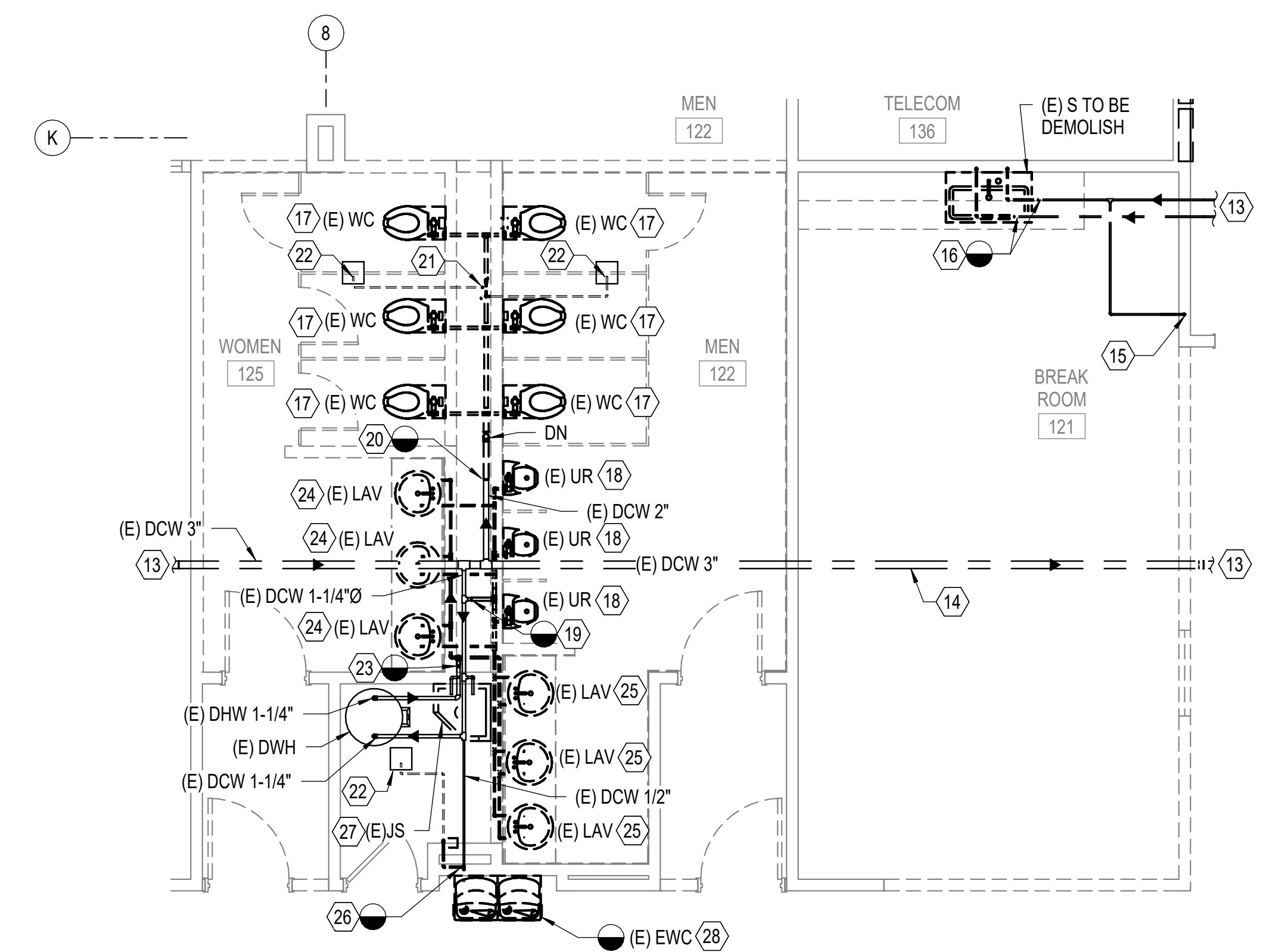
**4 ENLARGED FLOOR PLAN - DOMESTIC WATER PIPING - NEW WORK**

P401 SCALE: 1/4" = 1'-0"  
REF: P102



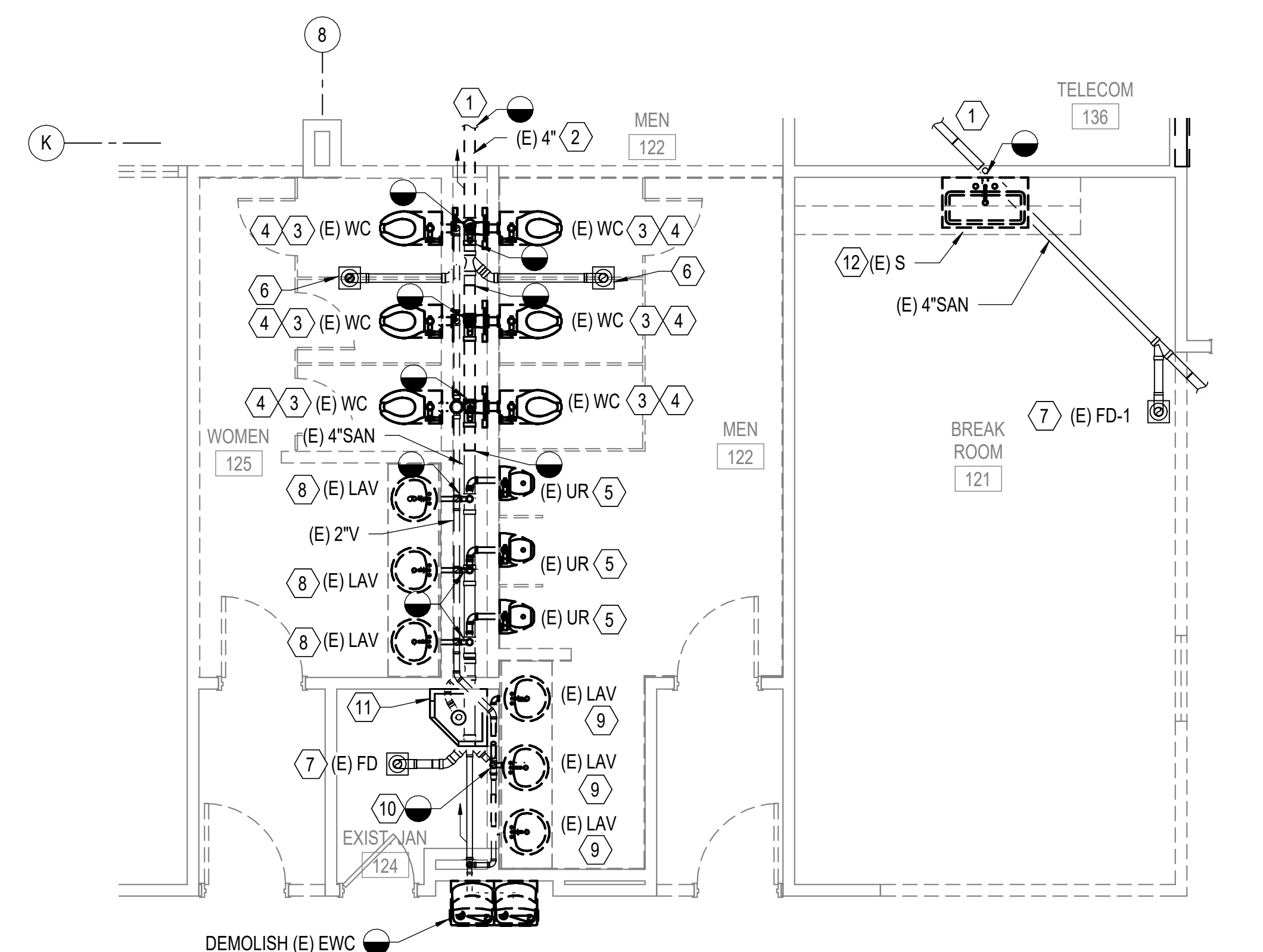
**3 ENLARGED FLOOR PLAN - SANITARY PIPING - NEW WORK**

P401 SCALE: 1/4" = 1'-0"  
REF: P101



**2 ENLARGED FLOOR PLAN - DOMESTIC WATER PIPING - DEMOLITION**

P401 SCALE: 1/4" = 1'-0"  
REF: P042

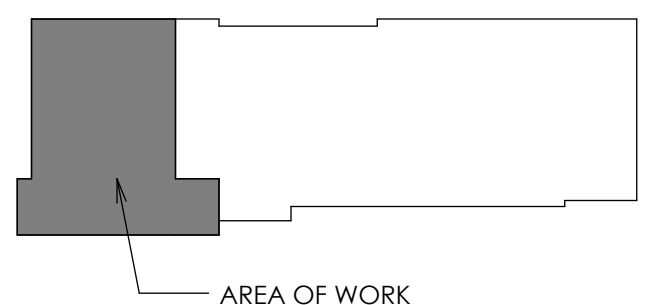
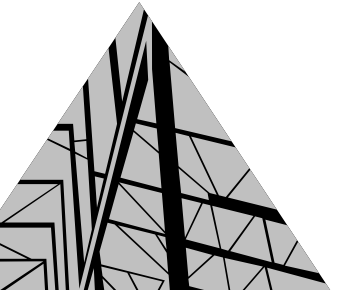


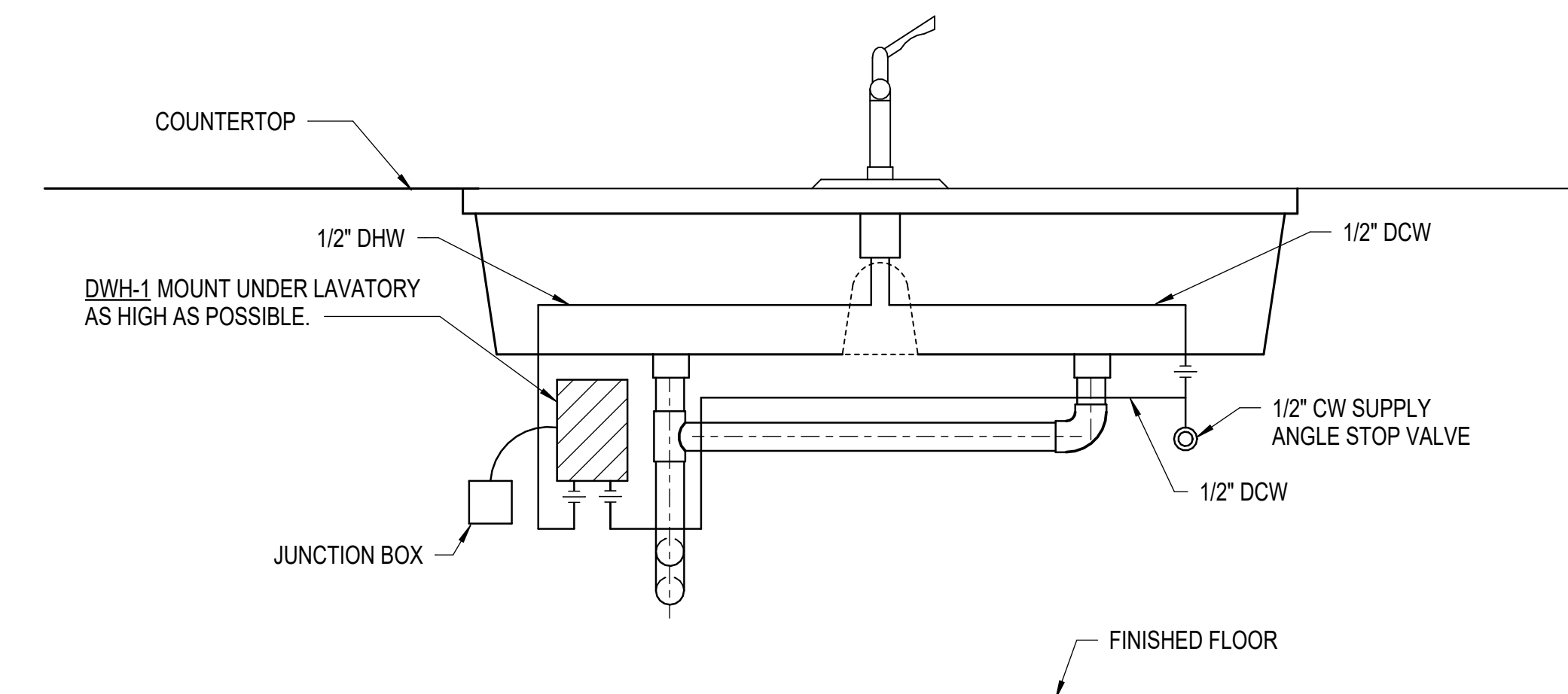
**1 ENLARGED FLOOR PLAN - SANITARY PIPING - DEMOLITION**

P401 SCALE: 1/4" = 1'-0"  
REF: P041

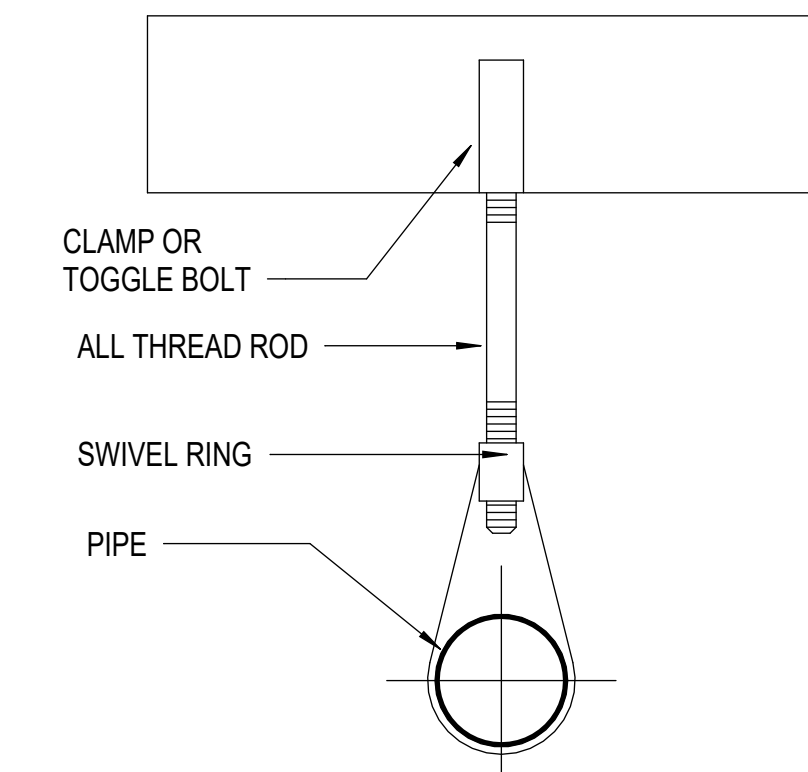
#	NEW NOTES
1	SEE SHEET P101 PLUMBING - FLOOR PLAN - SANITARY PIPING FOR CONTINUATION.
2	SANITARY PIPING BELOW SLAB (TYP), TO REMAIN.
3	EXISTING HORIZONTAL VENT PIPING IN CHASE TO REMAIN.
4	CONNECT NEW 2" VENT FROM ABOVE WC-1 TO (E) 4" VTR.
5	NEW SANITARY TEE CONNECT TO NEW SANITARY PIPING BELOW SLAB EXTENDED IN CHASE TO SUPPLY PLUMBING FIXTURES IN BATHROOMS.
6	(E) SANITARY PIPING FROM (E) FD TO REMAIN.
7	PROVIDE A NEW TRAP GUARD (TYP).
8	ROUTE 2" VENT FROM EXISTING HORIZONTAL VENT IN CHASE. CONNECT TO NEW WC-1 & WC-2A.
9	CONNECT WC-2 TO NEW SANITARY PIPING BELOW SLAB, ROUTE NEW 2" V UP TO CONNECT TO HORIZONTAL VENT HIGH IN CHASE.
10	CONNECT WC-1 TO NEW SANITARY PIPING BELOW SLAB, ROUTE NEW 2" V UP TO CONNECT TO HORIZONTAL VENT HIGH IN CHASE.
11	CONNECT WC-1 TO (E) SANITARY PIPING BELOW SLAB, ROUTE NEW 2" VENT UP TO CONNECT TO (E) HORIZONTAL VENT HIGH IN CHASE.
12	CONNECT NEW UR-2 TO (E) SANITARY PIPING BEL SLAB. CONNECT NEW VENT PIPE TO EXISTING HORIZONTAL VENT IN CHASE.
13	CONNECT NEW UR-1 TO (E) SANITARY PIPING BEL SLAB. CONNECT NEW VENT PIPE TO EXISTING HORIZONTAL VENT IN CHASE.
14	CONNECT NEW LAV-1 TO (E) SANITARY PIPING BELOW SLAB. CONNECT NEW VENT PIPE TO (E) HORIZONTAL VENT IN CHASE.
15	CAP (E) VENT BELOW HORIZONTAL VENT MAIN THAT SERVE MEN 122 FOR LAVS THAT WAS DEMOLISH.
16	CONNECT NEW S-1 TO EXISTING SANITARY/VENT PIPING IN WALL.
17	(E) FD TO REMAIN. PROVIDE TRAP GUARD.
18	ROUTE NEW 3" SANITARY PIPE FROM CHASE TO S-1.
19	(E) VENT ABOVE CEILING TO REMAIN.
20	ROUTE NEW 3" SAN TO TRANSITION UP TO 2" SAN IN WALL UP TO S-1, 1-1/2" VENT PIPE UP TO ABOVE CEILING.
21	ROUTE NEW 1-1/2" VENT PIPE FROM S-1 TO NEW VENT PIPE IN CHASE.
22	PRIOR TO ANY SLAB DEMOLITION THE CONTRACTOR SHALL HAVE THE SLAB SCANNED WITHIN THE VICINITY OF WORK FOR EXISTING BELOW SLAB POWER. CONTRACTOR SHALL DOCUMENT AND PROVIDE EVIDENCE OF SUCCESSFUL SCAN.
23	SEE SHEET P102 - FLOOR PLAN - DOMESTIC WATER PIPING - NEW WORK FOR CONTINUATION.
24	CONNECT NEW 2" DCW PIPING TO (E) 2" DCW ABOVE SLAB IN CHASE TO SERVE NEW FIXTURES.
25	CONNECT NEW 1-1/4" DWH PIPING TO EXISTING 1-1/4" DWH ABOVE SLAB IN CHASE TO SERVE NEW FIXTURES FOR WOMEN 125 & MEN 122.
26	EXTEND NEW 1/2" DCW/DWH TO S-1.
27	(E) DCW ABOVE CEILING TO REMAIN.
28	DCW/DWH ABOVE CEILING TO REMAIN.
29	(E) JS DCW/DWH TO REMAIN.
30	NEW EWC-1.
31	CAP 1/2" DCW TO EXISTING TRAP PRIMER IN WALL.
32	(E) DWH TO REMAIN.
33	CONNECT NEW 1/2" DCW PIPING TO S-1 AND TO DWH-1 BELOW COUNTERTOP. CONNECT DWH TO S-1 FROM DWH-1.
34	SEE SHEET P501 FOR DETAIL - INSTANTANEOUS ELECTRIC WATER HEATER (DWH-1).

#	DEMOLITION NOTES
1	SEE SHEET P041 - PLUMBING - DEMOLITION FLOOR PLAN - SANITARY PIPING FOR CONTINUATION.
2	DEMOLISH SANITARY PIPING RUNNING BELOW SLAB INTO BATHROOM CHASE.
3	DEMOLISH (E) WC, (E) CARRIER AND (E) FITTINGS ALONG WITH SANITARY PIPING CONNECTED TO BELOW SLAB.
4	DEMOLISH (E) VENT PIPE CONNECTION FROM (E) WC CARRIER IN CHASE, (E) HORIZONTAL VENT PIPING IN CHASE TO REMAIN.
5	DEMOLISH (E) UR AND (E) SANITARY PIPING TO WHERE IT CONNECT AT THE STACK IN THE CHASE. DEMOLISH (E) VENT PIPE CONNECTION FOR (E) UR.
6	(E) FD TO REMAIN.
7	(E) FD TO REMAIN.
8	DEMOLISH (E) LAV, (E) SANITARY PIPING AND FITTINGS BACK TO THE STACK IN THE CHASE THAT SERVES WOMEN 125.
9	DEMOLISH (E) LAV, (E) SANITARY PIPINGS AND FITTINGS BACK TO BELOW SLAB AND CAP, THAT SERVES MEN 122.
10	DEMOLISH (E) VENT STACK FROM (E) LAV THAT SERVES MEN 122. CAP (E) VENT BELOW THE TEE AT THE HORIZONTAL (E) VENT PIPE RUNNING HIGH IN THE JANITOR 124.
11	EXISTING SANITARY PIPING TO JANITOR SINK (JS). JANITOR SINK (JS) TO REMAIN.
12	DEMOLISH SINK IN BREAK ROOM 121, DEMOLISH AND REMOVE SANITARY TRAP, AND PIPING BACK TO SANITARY RISER IN WALL.
13	SEE SHEET P042 - PLUMBING - DEMOLITION FLOOR PLAN - WATER PIPING.
14	EXISTING DOMESTIC WATER PIPING ABOVE CEILING (TYP), TO REMAIN.
15	(E) DCW ABOVE CEILING VENDING MACHINE, TO REMAIN.
16	DEMOLISH (E) 1/2" DCW & DWH PIPING CONNECTION TO SINK ABOVE CEILING.
17	DEMOLISH (E) WC FLUSH VALVE & RING SUPPORT, DCW PIPING CONNECTION AND FITTINGS.
18	DEMOLISH (E) UR FLUSH VALVE & RING SUPPORT, DCW PIPING AND FITTINGS BACK IN CHASE AS SHOWN.
19	DEMOLISH DCW PIPING IN CHASE FROM (E) UR AND LAVATORIES IN MEN 122.
20	DEMOLISH (E) DCW PIPING ROUTED IN CHASE ROUTED TO (E) WC IN WOMEN 125 & MEN 122, FLUSH VALVES, FITTINGS AND PIPING SUPPORTS.
21	DEMOLISH CONNECTION FOR TRAP PRIMER LOCATED IN CHASE AND CAP AFF.
22	TRAP PRIMER PIPING TO BE ABANDON BELOW SLAB AT FLOOR DRAIN.
23	DEMOLISH DWH PIPING HIGH IN CHASE THAT SERVES LAVS IN MEN 122 & WOMEN 125.
24	DEMOLISH (E) LAV, (E) DCW & DWH PIPINGS AND FITTINGS THAT SERVES WOMEN 125.
25	DEMOLISH (E) LAV, (E) DCW AND DWH PIPINGS AND FITTINGS THAT SERVES MEN 122.
26	DEMOLISH CONNECTION FOR TRAP PRIMER AND CAP AFF.
27	EXISTING DCW AND DWH PIPING TO JANITOR SINK (E) JS, SHALL REMAIN.
28	DEMOLISH (E) WATER-COOLER, (E) DCW TO, SHALL REMAIN.

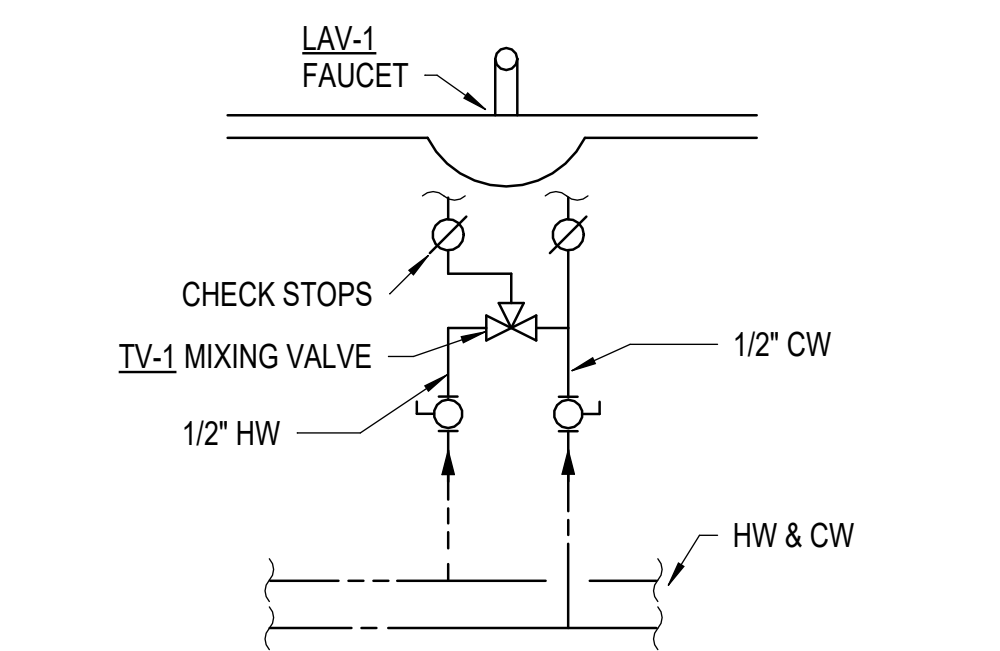




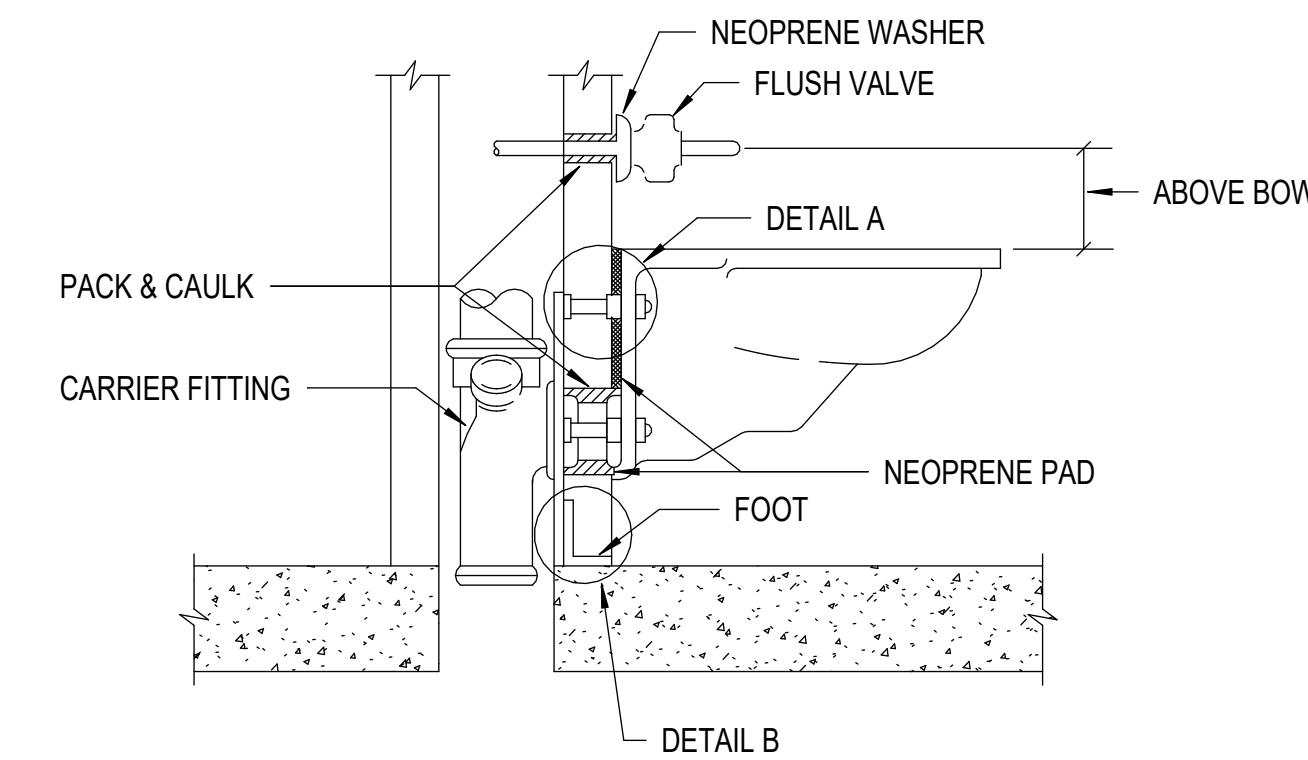
**DETAIL - INSTANTANEOUS ELECTRIC WATER HEATER (DWH-1)**  
NOT TO SCALE



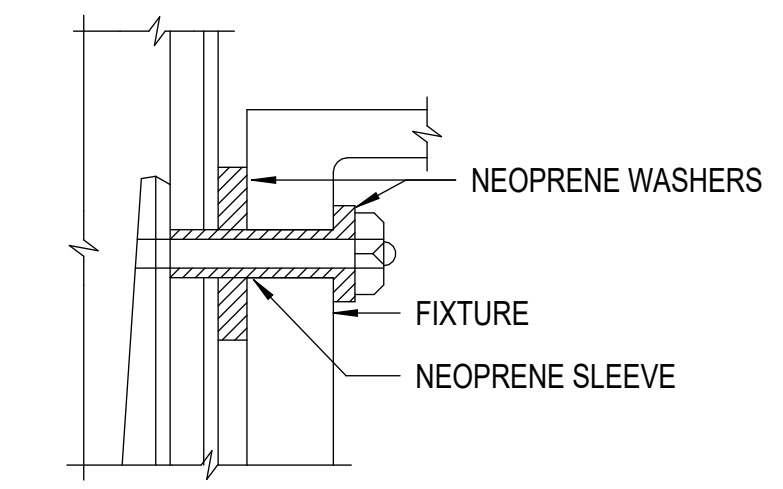
**DETAIL - HANGER**  
NOT TO SCALE



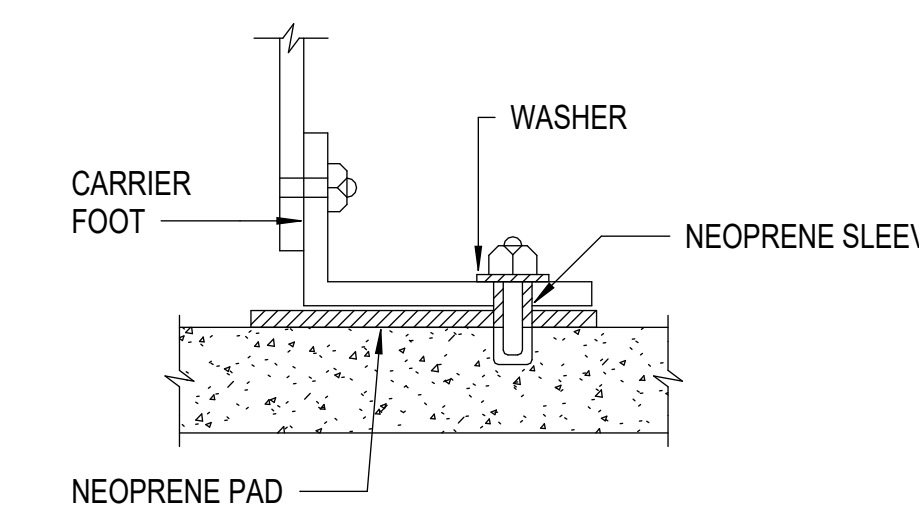
**DETAIL - POINT OF USE MIXING VALVE AT SINKS (TV-1)**  
NOT TO SCALE



**DETAIL - WATER CLOSET MOUNTING WITH VIBRATION ISOLATORS**  
NOT TO SCALE



DETAIL A



DETAIL B

**RENOVATIONS TO  
JOHN W. VAUGHAN  
M+S BUILDING  
(METER & STORES)  
AMERICAN ELECTRIC POWER**

SPECTRUM DESIGN PROJECT NO.: 25020

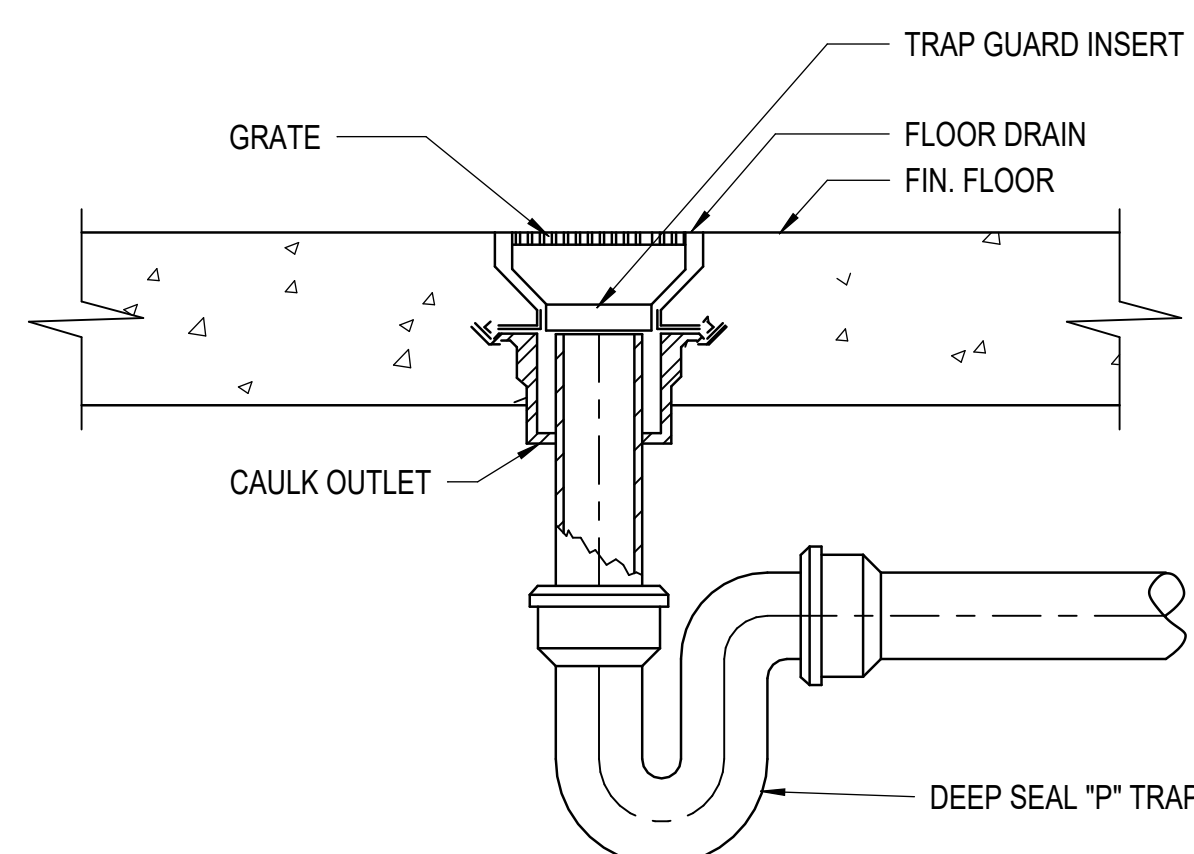


PROJ. MGR.: **MAR** CHECKED BY: **GEG, TLP** DRAWN BY: **MKJ**

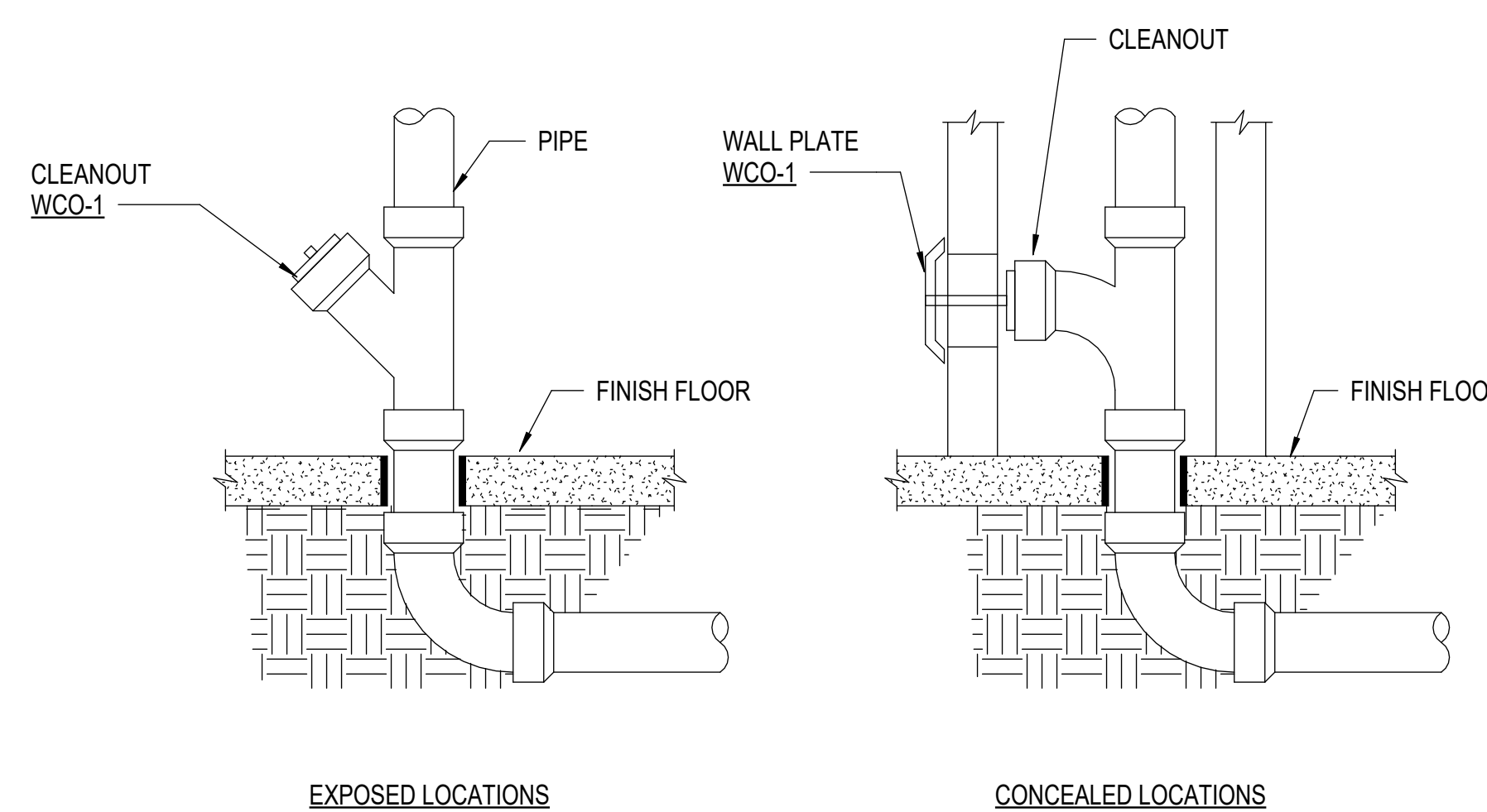
SHEET ISSUE DATE:  
**12.22.2025**

PROJECT PHASE:  
**PERMIT DOCUMENTS**

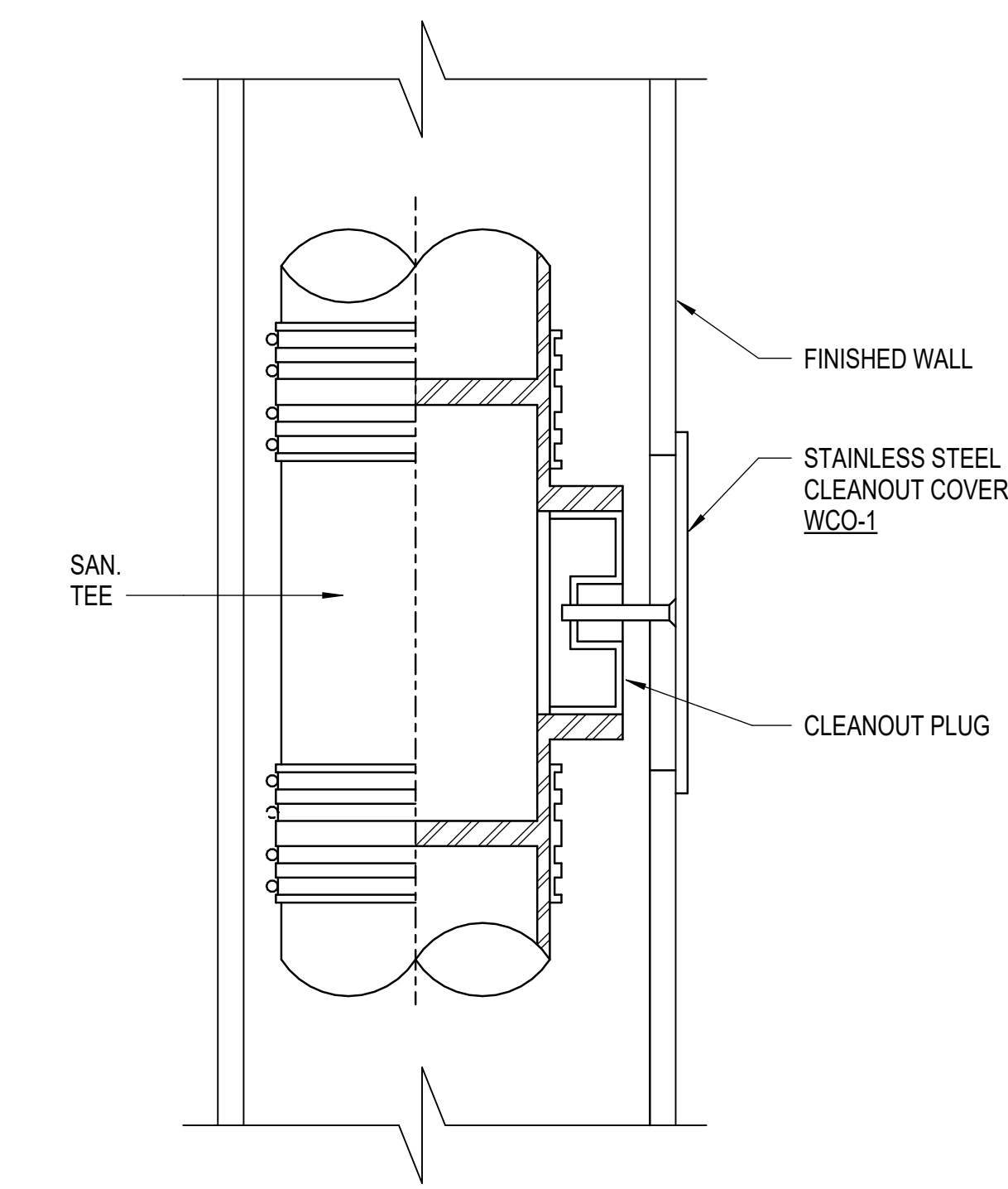
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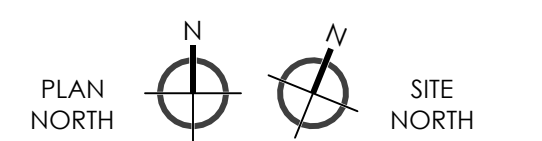
**DETAIL - FLOOR DRAIN**  
NOT TO SCALE



**DETAIL - CLEANOUT**  
NOT TO SCALE



**DETAIL - CLEANOUT**  
NOT TO SCALE



SHEET NAME:  
**PLUMBING - DETAILS**

SHEET NUMBER:  
**P501**

**PLUMBING FIXTURE SCHEDULE**

FIXTURES												
MARK	FIXTURE NAME	MANUFACTURER'S	MODEL NO.#	MANUFACTURER'S TYPE / STYLE	COLD WATER INLET SIZE	HOT WATER INLET SIZE	WASTE SIZE	VENT SIZE	FIXTURE MOUNTING	FIXTURE MOUNTING HEIGHT	ACCESSORIES / MANUFACTURER'S MODEL NUMBER	NOTES
WC-1	WATER CLOSET	AMERICAN STANDARD	#2294.011EC	AFWALL FLOWISE - FLUSH VALVE - ELONGATED VITREOUS CHINA, ADA HANDLE ORIENTED ON WIDE SIDE OF TOILET STALL. BOLT CAPS AND JOSAM #12000 SERIES WALL CARRIER.	1"	-	4"	2"	WALL	15"	ZURN AQUASENSE MODEL #ZEMS6000-HW6, HARDWIRED AUTOMATIC SENSOR 1.6 FLUSH VALVE. 1" CONNECTION DIAPHAM-TYPE. SOLID RING PIPE SUPPORT. CHURCH #295C ELONGATED OPEN FRONT SEAT.	1
WC-2	WATER CLOSET (ADA)	AMERICAN STANDARD	#2294.011EC	AFWALL FLOWISE - FLUSH VALVE - ELONGATED VITREOUS CHINA, ADA HANDLE ORIENTED ON WIDE SIDE OF TOILET STALL. BOLT CAPS AND JOSAM #12000 SERIES WALL CARRIER.	1"	-	4"	2"	WALL	17"	ZURN AQUASENSE MODEL #ZEMS6000-HW6, HARDWIRED AUTOMATIC SENSOR 1.6 FLUSH VALVE. 1" CONNECTION DIAPHAM-TYPE. SOLID RING PIPE SUPPORT. CHURCH #295C ELONGATED OPEN FRONT SEAT.	1
UR-1	URINAL	AMERICAN STANDARD	#6590.001	WASHBROOK FLOWISE UNIVERSAL URINAL WHITE VITREOUS CHINA, 3/4" INLET SPUD, 2" OUTLET, 2 WALL HANGERS & STRAINER INCLUDED.	3/4"	-	2"	1-1/2"	WALL	24"	ZURN MODEL #ZEMS6003PL-HW6 AQUAFLUSH EXPOSED HARDWIRE FLUSH VALVE, TOP SPUD, 0.125 GPF, 3/4" CONNECTION, AND SOLID RING PIPE SUPPORT, PROVIDE JOSAM #17800 SERIES CARRIER.	2
UR-2	URINAL (ADA)	AMERICAN STANDARD	#6590.001	WASHBROOK FLOWISE UNIVERSAL URINAL WHITE VITREOUS CHINA, 3/4" INLET SPUD, 2" OUTLET, 2 WALL HANGERS & STRAINER INCLUDED.	3/4"	-	2"	1-1/2"	WALL	17"	ZURN MODEL #ZEMS6003PL-HW6 AQUAFLUSH EXPOSED HARDWIRE FLUSH VALVE, TOP SPUD, 0.125 GPF, 3/4" CONNECTION, AND SOLID RING PIPE SUPPORT, PROVIDE JOSAM #17800 SERIES CARRIER.	2
LAV-1	LAVATORY (ADA)	AMERICAN STANDARD	#0491.027	WHITE RONDALYN COUNTER TOP, VITREOUS CHINA, REAR DRAIN, FAUCET HOLES 4" CENTER	1/2"	1/2"	2"	1-1/2"	COUNTER	-	ZURN AQUASENSE MODEL #Z6913-XL-CWB, HARDWIRED AUTOMATIC SENSOR 0.5 GPM AERATOR ADA FAUCET VALVE, 1/2" CONNECTION, SINGLE HOLE BATHROOM FAUCET, ELECTRONIC, PLATE COVERS UP EXTRA HOLES, STRAINER INCLUDED, CHROME P-TRAP, CHROME SUPPLIES, COMPRESSION FITTINGS AND STOPS, PROVIDE TRUEBRO #102W PRE-MOLDED INSULATION ON BOTH WATER SUPPLIES AND DRAIN, PROVIDE LAWLER #570 ASSE 1070 MIXING VALVE.	3,4
S-1	SINK	JUST	#SX1931A-J	STAINLESS STEEL 31"X19-1/2"X10-5/8" SINGLE BOWL DROP-IN SINK. REAR CENTER DRAIN SIZE 3-1/2". ASME A112.19.3/CSA B45.4.	1/2"	1/2"	2"	1-1/2"	COUNTER	-	ELKAY - MODEL #LK1410 LELAND SINGLE HANDLE PULL-DOWN KITCHEN FAUCET WITH SHIELDSPRAY TECHNOLOGY. SUPPLY CHROME P-TRAP, SUPPLIES SHUT-OFF VALVES, 3-1/2" STRAINER. OPTIONAL: PROVIDE LAWLER #570 ASSE 1070 MIXING VALVE.	5
S-2	SINK	ELKAY	#DLR331910	STAINLESS STEEL 33"X19-1/2"X10-1/8" DOUBLE BOWL DROP-IN SINK. CENTER DRAIN SIZE 3-1/2". ASME A112.19.3/CSA B45.4.	1/2"	1/2"	2"	1-1/2"	COUNTER	-	ELKAY - MODEL #LK1410 LELAND SINGLE HANDLE PULL-DOWN KITCHEN FAUCET WITH SHIELDSPRAY TECHNOLOGY. SUPPLY CHROME P-TRAP, SUPPLIES SHUT-OFF VALVES, 3-1/2" STRAINER. OPTIONAL: PROVIDE LAWLER #570 ASSE 1070 MIXING VALVE.	5
EW-1	ELECTRIC WATER COOLER	ELKAY	#LZSTL8WSSP	EZH20 BOTTLE FILLING STATION WITH FILTERED 8-LEVEL COOLER. 18 GAUGE 300 SERIES STAINLESS STEEL, 8 GPH 50°F OF DRINKING WATER. PUSHBAR ACTIVATION.	1/2"	-	2"	1-1/2"	WALL	MAXIMUM TO THE LOWER SPOUT OUTLET 36" ADA AND 42" STANDARD.	8.0 GPH CAPACITY AND 115V / 60Hz, 4.2 AMP INTEGRAL COMPRESSOR. ADA COMPLIANT.	

**NOTES:**

- EQUAL WATER CLOSET MANUFACTURERS INCLUDE SLOAN, KOHLER AND AMERICAN STANDARD. EQUAL SEAT MANUFACTURERS INCLUDE AMERICAN STANDARD, BEMIS AND OLSONITE. EQUAL FLUSH VALVE MANUFACTURERS INCLUDE AMERICAN STANDARD, SLOAN AND WATTS. EQUAL CLOSET CARRIER MANUFACTURERS INCLUDE ZURN, JAY R. SMITH AND MIFAB.
- EQUAL URINAL MANUFACTURERS INCLUDE SLOAN, KOHLER AND TOTO. EQUAL FLUSH VALVE MANUFACTURERS INCLUDE AMERICAN STANDARD, SLOAN AND TOTO.
- EQUAL COUNTER-TOP LAVATORY MANUFACTURERS INCLUDE KOHLER, PROFLO AND ELKAY.
- EQUAL LAVATORY FAUCET MANUFACTURERS INCLUDE SLOAN, AMERICAN STANDARD AND GLOBAL INDUSTRIES.
- EQUAL STEEL SINK MANUFACTURERS INCLUDE AMERICAN STANDARD MODEL 185B.9301800T.075 AND KRAUS MODEL KBU14. EQUAL FAUCET MANUFACTURERS INCLUDE CHICAGO, SYMMONS AND T&S BRASS.

**PLUMBING SPECIALTIES SCHEDULE**

MARK	NAME	MANUFACTURER	MODEL NO.#	CONNECTION				EQUIPMENT MOUNTING	EQUIPMENT MOUNTING HEIGHT	DESCRIPTION
				CW SIZE	HW SIZE	WASTE SIZE	MIN. VENT SIZE			
FD-1	FLOOR DRAIN	JOSAM	#30000-SA-2-VP	-	-	3"	1-1/2"	FLOOR	-	3" FLOOR DRAIN, SATIN FINISH BRONZE ADJUSTABLE TOP, ADJUSTABLE STRAINER, SECURED GRATE, TRAP GUARD INSERT.
TV-1	MIXING VALVE	LAWLER	#570	-	-	-	-	-	-	APPROVED ASSE 1070 MIXING VALVE, SET TO AUTOMATIC 110° F LWT - SEE SHEET P501 - DETAIL - POINT OF USE MIXING VALVE AT SINK - (TV-1).
HB-1	HOSE BIBB	CHICAGO	#252-CP	1/2"	-	-	-	WALL	18"	POLISHED CHROME PLATED FINISH. SOLID BRASS BODY CONSTRUCTION, ATMOSPHERIC VACUUM BREAKER RIGID SPOUT, 3/4" MALE GARDEN HOSE THREAD OUTLET, 2 1/4" TEE HANDLE, SLOW COMPRESSION RENEWABLE CARTRIDGE THAT CLOSES WITH WATER PRESSURE WITH TAPERED SQUARE BROACH TO FACILITATE HANDLE REMOVAL, MOUNTING HARDWARE INCLUDED. CAP AVAILABLE FOR LOOSE KEY APPLICATIONS.
WHA-1	WATER HAMMER ARRESTER	JOSAM	#75000 SERIES	-	-	-	-	-	-	SIZE AND LOCATION IN ACCORDANCE W/ P.D.I. STD. WH-201. STAINLESS STEEL SHELL, STAINLESS STEEL BELLOW TYPE. FACTORY PRE-CHARGED WITH THREADED PLUG.
WCO-1	WALL CLEANOUT	JAY R. SMITH	#4472	-	-	-	-	WALL	-	WALL - CHROME FLUSH WALL PLATE, RECESSED PLUG. JAY R. SMITH FIG. 4472T SERIES.
FCO-1	FLOOR CLEANOUT	JAY R. SMITH	#4020	-	-	-	-	FLOOR	-	FLOOR (FINISHED) SATIN NIKALOY BRONZE TOP, RECESSED PLUG. JAY R. SMITH FIG. 4020 SERIES.

**NOTES:**

- CO - CLEANOUT  
WCO - WALL - CAST IRON THREADED PLUG WITH STAINLESS STEEL ACCESS COVER PLATE. EXPOSED - CAST IRON THREADED PLUG. CONCEALED - SAME AS EXPOSED. JAY R. SMITH 4470.  
WALL - CHROME FLUSH WALL PLATE, RECESSED PLUG. JAY R. SMITH FIG. 4472 WITH 4715 DEEP COVER.  
FLOOR (UNFINISHED) - SATIN NIKALOY BRONZE TOP, RECESSED PLUG. JAY R. SMITH FIG. W023S-NB.  
FLOOR (FINISHED) - RECESSED SATIN BRONZE TOP TO RECEIVE FLOOR FINISH MATERIAL.  
(EQUAL PRODUCTS MANUFACTURERS INCLUDE MIFAB AND WATTS.)

**WATER HEATER SCHEDULE (ELECTRIC)**

MARK	NAME	MODE #	FUEL	TEMPERATURE DEGREE °F	CW INLET SIZE	HW OUTLET SIZE	INPUT, KW	VOLTAGE/ PHASE	MANUFACTURER'S BASIS OF DESIGN
DWH-1	STIEBEL ELTRON	MINI-E 2-1 238011	ELECTRIC	86-122 °F	1/2"	1/2"	2.4	120/1	DIMENSIONS WIDTH 7-1/2" X HEIGHT 6-1/2" X DEPTH 3-1/4" WATER CONNECTIONS 3/8" MINI 2-1 MODELS SET AT 0.32 GPM, MINI-E 2-1 SET AT 0.40 GPM.

**NOTES:**

- EQUAL MINI ELECTRIC WATER HEATERS BOSCH, CHRONOMITE & RHEEM.
- DWH-1 TO SERVE S-2 SINK.

