GENERAL

	FD	FLOOR DRAIN
		P-TRAP
		ELBOW UP OR RISE
	DN/DP	ELBOW DOWN OR DROP
		CAP OR END OF PIPE
HB	HB	HOSE BIBB
		TEE LOOKING UP
		TEE LOOKING DOWN
	RPBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	CTE	CONNECT TO EXISTING
	ETR	EXISTING TO REMAIN
	ETBR	EXISTING TO BE REMOVED
		FLOW IN DIRECTION OF ARROW
		DIRECTION OF SLOPE

PIPING LEGEND

CW	DOMESTIC COLD WATER
	DOMESTIC COLD WATER BELOW SLAB
HW	DOMESTIC HOT WATER
	DOMESTIC HOT WATER BELOW SLAB
	DOMESTIC HOT WATER CIRCULATING BELOW SLAB
S or W	SOIL OR WASTE ABOVE GROUND
S or W	SOIL OR WASTE BELOW SLAB
V	VENT ABOVE GROUND
V	VENT BELOW SLAB
140°F	140°F DOMESTIC HOT WATER
140°F	140°F DOMESTIC HOT WATER CIRCULATING

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL WORK IS IN ACCORDANCE WITH THE EQUIPMENT LISTINGS AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. INSTALL ALL VALVES IN EASILY ACCESSIBLE LOCATIONS.
3. PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
4. CONTRACTOR SHALL PERFORM ALL PLUMBING WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE PLUMBING AND GAS CODE INCLUDING ALL LOCAL AMENDMENTS.
5. OBTAIN ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH THIS WORK PRIOR TO COMMENCEMENT.
6. PIPING AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, PIPE ROUTING AND EXACT LOCATIONS OF EQUIPMENT.
7. FURNISH AND INSTALL ALL NECESSARY PIPING, EQUIPMENT SUPPORTS AND ANY EQUIPMENT NOT SHOWN ON DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
8. PROVIDE ACCESSIBLE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLY PIPING TO INDIVIDUAL FIXTURES AND EQUIPMENT.
9. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
10. PITCH ALL WATER LINES TO DRAIN.
11. INSTALL DIELECTRIC COUPLINGS BETWEEN DISSIMILAR MATERIALS.
12. REQUIRED FIRE RESISTANCE RATING OF FLOORS, WALLS AND CEILINGS SHALL BE MAINTAINED WHEN PIPE PENETRATIONS ARE MADE.
13. REFER TO SPECIFICATIONS FOR OTHER REQUIREMENTS.

CALLOUT SYMBOLS

	CONNECT NEW TO EXISTING
	LIMIT OF DEMOLITION

DEMOLITION NOTES

1. THE DEMOLITION PLANS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED.
2. THE LOCATIONS OF EXISTING EQUIPMENT INCLUDING PIPING, DUCTWORK, EQUIPMENT, CONDUITS, ETC ARE SHOWN IN AN APPROXIMATE WAY ONLY. VISIT THE SITE PRIOR TO SUBMISSION OF THE BIDS AND COMMENCEMENT OF WORK TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF THE WORK.
3. TRACE AND LABEL ALL EXISTING SYSTEMS WITHIN THE DEMOLITION AREA AND BEYOND PRIOR TO DISCONNECTION AND REMOVAL TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION AREA IS AFFECTED. REVIEW IN DETAIL WITH THE GENERAL CONTRACTOR AND OWNER WHAT IS TO BE REMOVED AND REMAIN PRIOR TO WORK COMMENCING THE DEMOLITION. THERE SHALL BE NO INTERRUPTION OF SERVICES OUTSIDE THE DEMOLITION AREA WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE.
4. COORDINATE EQUIPMENT REMOVAL WITH ALL PARTIES TO PROVIDE DISCONNECTION. REMOVE EQUIPMENT BY UNFASTENING AT THE SUPPORTS OR ATTACHMENTS. ALSO REMOVE THE ATTACHMENTS FROM THE BUILDING, LEAVING NO COMPONENT OF THE ORIGINAL INSTALLATION.
5. EXERCISE CARE WITH EQUIPMENT THAT IS TO BE RELOCATED OR TURNED OVER TO THE OWNER. EXAMINE THE EQUIPMENT BEFORE REMOVAL IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO DETERMINE ITS CONDITION. DELIVER OWNER-RETAINED EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER AND OBTAIN ACKNOWLEDGMENT OF RECEIPT IN ORIGINAL CONDITION.
6. INSTALL RELOCATED EQUIPMENT IN ORIGINAL CONDITION ENSURING NO DAMAGE.
7. PROMPTLY REPAIR ANY DAMAGE CAUSED DURING/BY THE EXECUTION OF WORK. DAMAGE INCLUDES BUT IS NOT LIMITED TO DESTRUCTION OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
8. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION.
9. ALL ITEMS REMOVED SHALL BE OFFERED TO THE OWNER FOR SALVAGE. IF THE OWNER DOES NOT TAKE POSSESSION, DISPOSE OF THE ITEMS IN A SAFE AND LEGAL MANNER. ALL ITEMS CLASSIFIED AS HAZARDOUS SHALL BE DISPOSED AS HAZARDOUS WASTES AND A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PROVIDED TO THE OWNER.
10. ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
12. NOTIFY UTILITY COMPANIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO DEMOLITION. VERIFY THAT THE UTILITIES HAVE BEEN DISCONNECTED, VALVED, CAPPED AND MADE SAFE PRIOR TO DEMOLITION.
13. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND PROPERLY DISPOSE OF CHEMICALS, LIQUIDS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.
14. PROPERLY LABEL ALL UNLABELED SERVICE PIPELINES AND VALVES TO REMAIN WITH COLOR PIPE MARKERS AND VALVE TAGS. MOUNT A VALVE AND SERVICE CHART IN THE AREA OF DEMOLITION THAT IDENTIFIES ALL LABELED SERVICES. URN ONE COPY OF SAME OVER TO THE CM OWNER.
15. PRIOR TO DEMOLITION, MAKE SAFE ALL SERVICE PIPE TERMINATIONS TO THE AREA. PROVIDE VALVE AND CAPS ON PRESSURE SERVICES TO THE AREA THAT ARE TO REMAIN IN SERVICE.
16. ALL EXISTING INSULATION AFFECTED BY THE DEMOLITION SCOPE SHALL BE REPAIRED OR REPLACED TO MATCH SPECIFIED INSULATION.

ABBREVIATIONS

ACT	ACOUSTICAL TILE
AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT
BT	BATH TUB
BLDG	BUILDING
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CLDI	CEMENT LINED DUCTILE IRON
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUATION
CONTR	CONTRACTOR
CP	CHROME PLATED
CTE	CONNECT TO EXISTING
CW	COLD WATER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN-FIXTURE IDENTIFICATION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EL/ELEV	ELEVATION
ETBR	EXISTING TO BE REMOVED
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER-FIXTURE IDENTIFICATION
EX	EXISTING
FCO	FLOOR CLEANOUT
FFE	FINISH FLOOR ELEVATION
P-#	FIXTURE NUMBER
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT
FV	FLUSH VALVE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPF	GALLON PER FLUSH
GPM	GALLONS PER MINUTE
HC	HANDICAPPED
HW	HOT WATER
HWC	HOT WATER CIRCULATING
ID	INSIDE DIAMETER
INV	INVERT
IW	INDIRECT WASTE
LPC	LIMIT OF PLUMBING CONTRACTOR
MECH	MECHANICAL
MSB	MOP SERVICE BASIN-FIXTURE IDENTIFICATION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OD	OUTSIDE DIAMETER
OED	OPEN END DRAIN
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PSI	POUNDS PER SQUARE INCH
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SA	SHOCK ABSORBER
SK	SINK-FIXTURE IDENTIFICATION
SPEC	SPECIFICATION
SS	SOIL STACK
ST.ST.	STAINLESS STEEL
TYP	TYPICAL
U	URINAL-FIXTURE IDENTIFICATION
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET-FIXTURE IDENTIFICATION

PLUMBING FIXTURE SCHEDULE

TAG NO.	FIXTURE				FITTING								TRAP	REMARKS
	TYPE	MANUFACTURER	MODEL	SIZE	TYPE	MANUFACTURER	MODEL	SUPPLY	CW	HW	S/W	V		
WC-1	WATER CLOSET WALL HUNG, ELONGATED VITREOUS CHINA, SIPHON JET, TOP SPUD 1.6 GPF	AMERICAN STANDARD	AFWALL 2257.001	26"X15X14"	PUSH BUTTON FLUSH VALVE	ZURN	Z6154AV	1½"CW	1 ½"	-	4"	2"	INTEGRAL	EXISTING CARRIER SHALL REMAIN IN PLACE. PROVIDE OLSONITE MODEL 95 OPEN FRONT SEAT.
WC-1A	WATER CLOSET WALL HUNG, ELONGATED VITREOUS CHINA, SIPHON JET, TOP SPUD 1.6 GPF	AMERICAN STANDARD	AFWALL 2257.001	26"X15X14"	PUSH BUTTON FLUSH VALVE	ZURN	Z6154AV	1½"CW	1 ½"	-	4"	2"	INTEGRAL	EXISTING CARRIER SHALL REMAIN IN PLACE. PROVIDE OLSONITE MODEL 95 OPEN FRONT SEAT.INSTALL PER ADA REQUIREMENT.
UR-1	URINAL WALL HUNG, VITREOUS CHINA, SIPHON JET, 3/4" INLET SPUD 1.0 GPF	AMERICAN STANDARD	TRIMBROOK 6561.017	26-3/4"X 17-1/2"X14"	PUSH BUTTON FLUSH VALVE	ZURN	Z6601V	1"CW	1"	-	4"	2"	INTEGRAL	EXISTING CARRIER SHALL REMAIN IN PLACE.
UR-1A	URINAL WALL HUNG, VITREOUS CHINA, SIPHON JET, 3/4" INLET SPUD 1.0 GPF	AMERICAN STANDARD	TRIMBROOK 6561.017	26-3/4"X 17-1/2"X14"	PUSH BUTTON FLUSH VALVE	ZURN	Z6601V	1"CW	1"	-	4"	2"	INTEGRAL	EXISTING CARRIER SHALL REMAIN IN PLACE. INSTALL PER ADA REQUIREMENT
LAV-1	LAVATORY WALL HUNG VITREOUS CHINA, CONCEALED ARM SUPPORT	AMERICAN STANDARD	LUCERNE 0355.012	20 1/4" X 18 1/4"	FAUCET	ZURN	Z86100-XL	1/2" SWEAT X 3/8" COMP. LEAD FREE CHICAGO STC-51-11-PR-AB	½"	½"	2"	2"	1 1/4" X 1 1/2" 17 GA CAST BRASS CHROME PLATED P TRAP W/CO PLUG EQUAL TO MCGUIRE MCT150090B	EXISTING CARRIER SHALL REMAIN IN PLACE.
LAV-1A	LAVATORY WALL HUNG VITREOUS CHINA, CONCEALED ARM SUPPORT	AMERICAN STANDARD	LUCERNE 0355.012	20 1/4" X 18 1/4"	FAUCET	ZURN	Z86100-XL	1/2" SWEAT X 3/8" COMP. LEAD FREE CHICAGO STC-51-11-PR-AB	½"	½"	2"	2"	1 1/4" X 1 1/2" 17 GA CAST BRASS CHROME PLATED P TRAP W/CO PLUG EQUAL TO MCGUIRE MCT150090B	EXISTING CARRIER SHALL REMAIN IN PLACE. INSTALL PER ADA REQUIREMENT
HBB-1	HOSE BIBB/FAUCET	ZURN	Z134XL	¾"	-	-	-	-	¾"	-	-	-	-	EXPOSED, LEAD FREE, ANTI-SIPHON, HOSE BIBB WITH Z1399-VB VACUUM BREAKER, BRONZE AND STAINLESS STEEL CONSTRUCTION, WHEEL TYPE HANDLE.

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CONSULTANT

PROJECT NAME

CITY OF WORCESTER
INSTITUTE PARK TOILET FIXTURE REPLACEMENT

126 SALISBURY ST
WORCESTER, MA 01609

KEY PLAN

REVISION/ISSUANCE

#	DESCRIPTION	DATE
	BID DOCUMENTS	02/20/26

PROJECT NO.: 25-0013810
DESIGNED BY:
CHECKED BY:
DATE: 02.20.2026
SCALE: NTS

SHEET NAME
PLUMBING LEGEND, NOTES AND ABBREVIATIONS

SHEET NUMBER
P001

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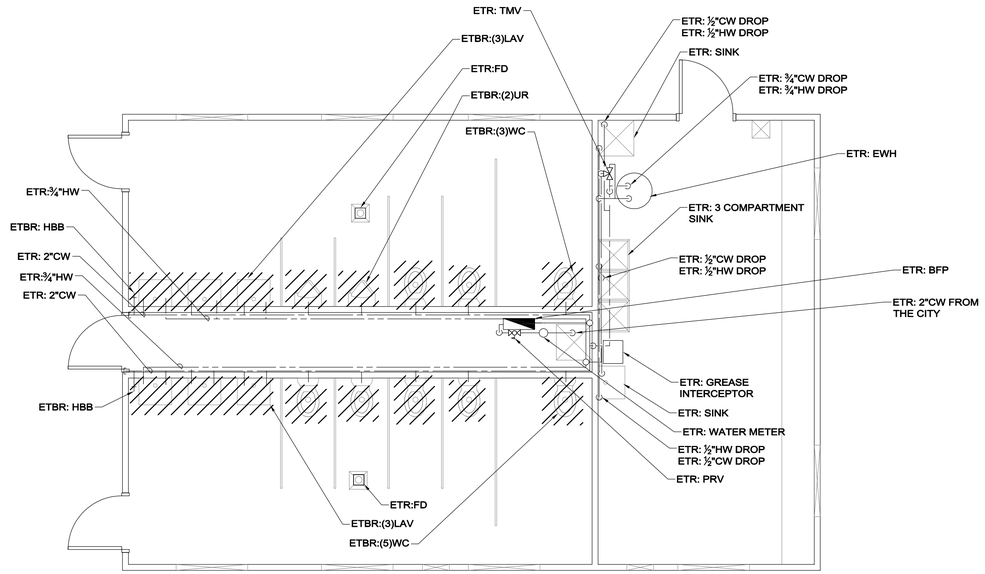
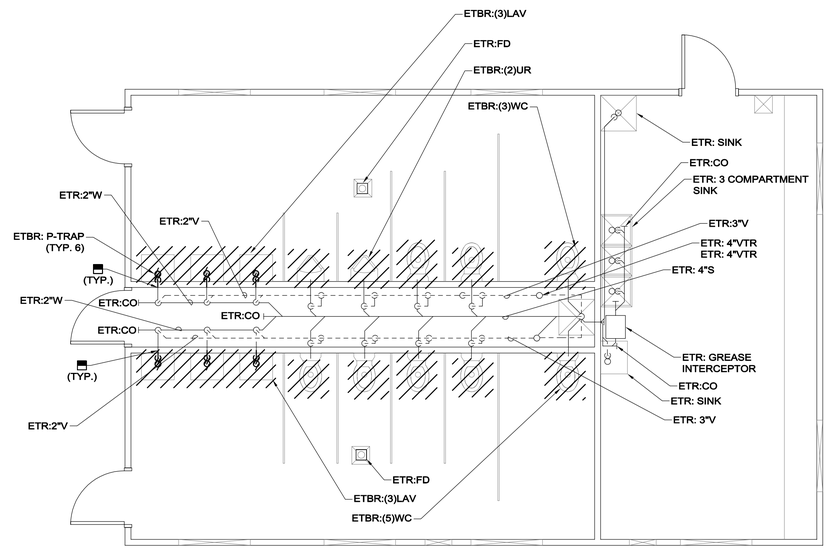
\\nv5.com\Pancura\BTS\BLD\BLD3\Projects\2025\25-0013810 - Worcester Institute Park Toilet\500 Drawings\CAD\6_Plumb\25-0013810 P001 PLUMBING GENERAL NOTES, AND LEGENDS.dwg [PAPER] February 19, 2026 - 12:32 PM jpasis.paul



1 P201 PLUMBING OVERALL WATER DEMOLITION PLAN - LEVEL 1

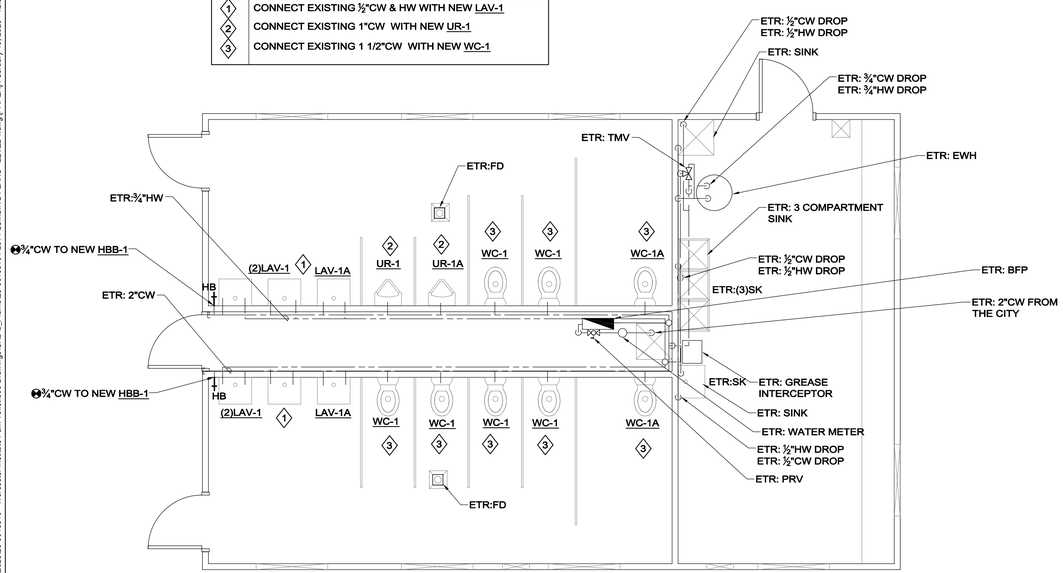
1/4" = 1'-0"



3 P203 PLUMBING OVERALL DEMOLITION WASTE&VENT PLAN - LEVEL 1

1/4" = 1'-0"

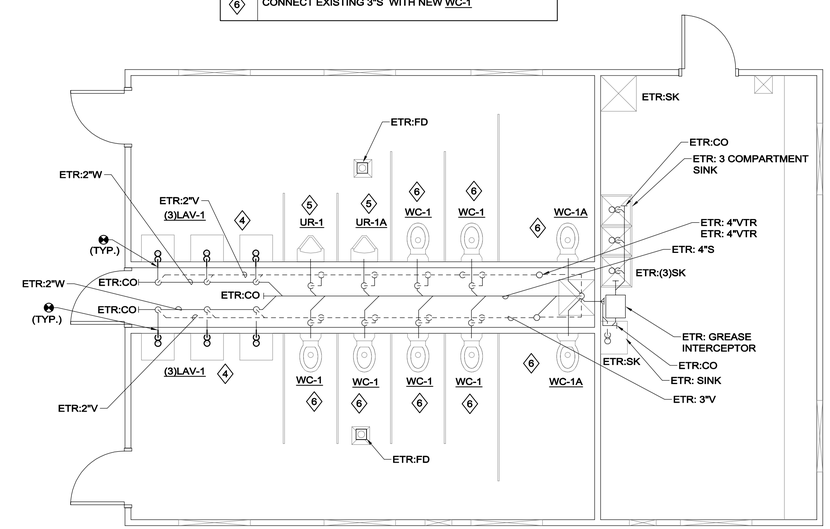
	PLUMBING KEY NOTES
1	CONNECT EXISTING ½"CW & HW WITH NEW LAV-1
2	CONNECT EXISTING 1"CW WITH NEW UR-1
3	CONNECT EXISTING 1 1/2"CW WITH NEW WC-1



2 P202 PLUMBING OVERALL NEW WORK WATER PLAN - LEVEL 1

1/4" = 1'-0"

	PLUMBING KEY NOTES
4	CONNECT EXISTING 2"W WITH NEW P-TRAP
5	CONNECT EXISTING 3"S WITH NEW UR-1
6	CONNECT EXISTING 3"S WITH NEW WC-1



4 P204 PLUMBING OVERALL NEW WORK WASTE&VENT PLAN - LEVEL 1

1/4" = 1'-0"

1/4" = 1'-0" 4'-0" 8'-0"

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KEY PLAN

REVISION/ISSUANCE

#	DESCRIPTION	DATE
	BID DOCUMENTS	02/20/26

PROJECT NO.:	25-0013810
DESIGNED BY:	JP
CHECKED BY:	MS
DATE:	02.20.2026
SCALE:	1/4" = 1'-0"

SHEET NAME

PLUMBING OVERALL PLANS - LEVEL 1

SHEET NUMBER

P201

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