



Revisions

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PLUMBING COVER
SHEET

Sheet
P00-01

PLUMBING DEMOLITION NOTES

- THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
- THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
- ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND FINISHING SCHEDULE SO THAT REMOVAL, OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

PLUMBING GENERAL NOTES

- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITY IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
- ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
- MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
- PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
- TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRE FOR THE VOLTAGES SHOWN HEREIN.
- PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
- SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCES WITH FIRE-PROOFING WORK.
- COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.
- RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
- STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
- PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.

PLUMBING DRAWING LIST

DRAWING NO.	DRAWING TITLE
P00-01	PLUMBING COVER SHEET
P00-10	PLUMBING SCHEDULES
P00-20	PLUMBING DETAILS
P00-30	PLUMBING SPECIFICATIONS
P01-05	PLUMBING FLOOR PLAN LEVEL 5 - DEMOLITION
P01-06	PLUMBING FLOOR PLAN LEVEL 6 - DEMOLITION
P02-05	PLUMBING FLOOR PLAN LEVEL 5
P02-06	PLUMBING FLOOR PLAN LEVEL 6

PLUMBING ABBREVIATIONS

AD	AREA DRAIN
AF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
COOP	CLEANOUT DECK PLATE
CONN	CONNECT
CONT	CONTINUATION
CV	CHECK VALVE
CVO	CAPPED AND VALVED OUTLET
CW	COLD WATER
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DWG	DRAWING
EJ DIS	ELECTOR DISCHARGE
EQC	ELECTRIC WATER COOLER
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
EL	ELEVATION
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FL	FLOOR
FLH	FLOOR HYDRANT
FT	FEET
FU	FIXTURE UNIT
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HCLG	HUNG CEILING
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDIE DIAMETER
IN	INCH
IW	INDIRECT WASTE
JS	JANITOR'S SINK
LAV	LAVATORY
MAP	MEDICAL GAS ALARM PANEL
MAX	MAXIMUM
MIN	MINIMUM
MR	MOP RECEPTOR
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PD	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PO	PLUGGED OUTLET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
(RE)	RELOCATED EXISTING
(RR)	EXISTING TO BE REMOVED AND RETURN TO OWNER
RD	ROOF DRAIN
SA	SHOCK ABSORBER
SAN	SANITARY
SD	SUMP PUMP DISCHARGE
SH	SHOWER
SK	SINK
SQ FT	SQUARE FOOT
ST	STORM
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
ZCVB	ZONE CONTROL VALVE BOX

PLUMBING HOSPITAL/LAB SYMBOLS

-A-	AIR PIPING
-CO2-	CARBON DIOXIDE PIPING
-D-	DIONIZED WATER PIPING
-DI-	DISTILLED WATER PIPING
-LV-	LABORATORY VENT PIPING
-LW-	LABORATORY WASTE PIPING
-MA-	MEDICAL AIR PIPING
-MG-	MEDICAL GAS PIPING
-MV-	MEDICAL VACUUM PIPING
-N-	NITROGEN PIPING
-NO2-	NITROUS OXIDE PIPING
-O2-	OXYGEN PIPING
-V-	VACUUM PIPING
-WAGD-	WASTE ANESTHETIC GAS DISPOSAL PIPING

PLUMBING WATER SERVICE SYMBOLS

○	ISOLATION VALVE W/ BOX TO GRADE
●	MANHOLE IN SANITARY SEWER
○	EXISTING MANHOLE
◇	FIRE HYDRANT
⊕	WELL
W	SITE WATER (COMBINED DOMESTIC AND FIRE)
WW	WELL WATER

PLUMBING SYMBOL LIST

---	EXISTING PIPING
- - - -	EXISTING PIPING TO BE REMOVED
- - - -	PIPING TO BE ABANDONED
- - - -	NEW SOIL, WASTE OR SANITARY PIPING
- - - -	VENT PIPING (SANITARY)
- - - -	PIPING BELOW SLAB
- - - -	DOMESTIC COLD WATER PIPING
- - - -	DOMESTIC HOT WATER PIPING (120°)
- - - -	DOMESTIC HOT WATER CIRCULATION PIPING
- - - -	PIPING W/ FREEZE PROTECTION CABLE & INSULATION
→	ARROW INDICATES DIRECTION OF FLOW
-CA-	COMPRESSED AIR PIPING
-G-	GAS PIPING
-EJ-	ELECTOR DISCHARGE PIPING
-IW-	INDIRECT WASTE PIPING
-PD-	PUMP DISCHARGE PIPING
-SD-	SUMP PUMP DISCHARGE PIPING
-ST-	STORM WATER DRAINAGE PIPING
-T-	TEMPERED WATER PIPING
○	DISCONNECT FROM EXISTING
○	CONNECT TO EXISTING
⊕	SHOCK ARRESTOR
⊕	FLEXIBLE CONNECTION
HI	EXPANSION LOOP
HOSE BIBB	HOSE BIBB
WALL HYDRANT	WALL HYDRANT
FRESH AIR INLET	FRESH AIR INLET
CLEAN OUT / PLUGGED OUTLET	CLEAN OUT / PLUGGED OUTLET
CAPPED OUTLET	CAPPED OUTLET
CLEAN-OUT DECK PLATE	CLEAN-OUT DECK PLATE
PT TRAP	PT TRAP
VACUUM BREAKER	VACUUM BREAKER
BOTTOM PIPE CONNECTION	BOTTOM PIPE CONNECTION
TOP PIPE CONNECTION	TOP PIPE CONNECTION
SIDE CONNECTION	SIDE CONNECTION
PIPE DOWN / DROP	PIPE DOWN / DROP
PIPE RISE / UP	PIPE RISE / UP
PIPE SLOPE	PIPE SLOPE
VALVE INVERTICAL	VALVE INVERTICAL
UNION	UNION
REDUCER	REDUCER
WATER PROOF SLEEVE	WATER PROOF SLEEVE
SLEEVE	SLEEVE
PRESSURE GAUGE W/ GAUGE COCK	PRESSURE GAUGE W/ GAUGE COCK
TEMPERATURE GAUGE	TEMPERATURE GAUGE
FLOOR DRAIN	FLOOR DRAIN
ROOF DRAIN	ROOF DRAIN
PUMP	PUMP
WATER METER	WATER METER
AUTOMATIC BALL DRIP	AUTOMATIC BALL DRIP
VENT THRU ROOF	VENT THRU ROOF
TRAP	TRAP
TAMPER SWITCH	TAMPER SWITCH
PRESSURE SWITCH W/ GAUGE COCK	PRESSURE SWITCH W/ GAUGE COCK
WATERFLOW SWITCH	WATERFLOW SWITCH
TEMPERATURE AND PRESSURE RELIEF VALVE	TEMPERATURE AND PRESSURE RELIEF VALVE
PLUG VALVE	PLUG VALVE
MIXING VALVE	MIXING VALVE
RELIEF VALVE	RELIEF VALVE
BALL VALVE	BALL VALVE
BALL VALVE W/ LOCK SHIELD	BALL VALVE W/ LOCK SHIELD
GATE VALVE	GATE VALVE
GLOBE VALVE	GLOBE VALVE
OUTSIDE SCREW & YOKE (OS&Y) VALVE	OUTSIDE SCREW & YOKE (OS&Y) VALVE
CHECK VALVE	CHECK VALVE
PRESSURE REDUCING VALVE (PRV)	PRESSURE REDUCING VALVE (PRV)
SOLENOID VALVE	SOLENOID VALVE
FLOAT VALVE	FLOAT VALVE
BALANCING VALVE	BALANCING VALVE
Y-STRAINER W/ BLOW-OFF VALVE	Y-STRAINER W/ BLOW-OFF VALVE
BACKFLOW PREVENTER ASSEMBLY	BACKFLOW PREVENTER ASSEMBLY
REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
DETECTOR CHECK VALVE ASSEMBLY	DETECTOR CHECK VALVE ASSEMBLY
BALANCING VALVE ASSEMBLY	BALANCING VALVE ASSEMBLY
RISER DESIGNATION	RISER SERVICE RISER NUMBER