

PLUMBING EQUIPMENT FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER & MODEL NO.	REMARKS
WC-1	WATER CLOSET (ADA COMPLIANT)	KOHLER K-3658	KOHLER HIGH-LINE, FLOOR MOUNTED, FLUSH TANK, SIPHON JET, 1.28 GAL/FLUSH ELONGATED BOWL WITH KOHLER K-3519-0 SEAT.
WC-2	WATER CLOSET	KOHLER K-3658	KOHLER HIGH-LINE, FLOOR MOUNTED, FLUSH TANK, SIPHON JET, 1.28 GAL/FLUSH ELONGATED BOWL WITH KOHLER K-3519-0 SEAT.
LA-1	LAVATORY (ADA COMPLIANT)	AMERICAN STANDARD 0355 012	AMERICAN STANDARD LUCERNE, VIRTUOUS CHINA, WALL MOUNT LAVATORY WITH OVERFLOW. PROVIDE DELTA 500-DST 1.5 GPM FAUCET TO PROVIDE TEMPERED WATER. PROVIDE LEONARD MODEL LF-170 THERMOSTATIC MIXING VALVE FOR EACH PAIR OF LAVATORY FAUCETS AND LEONARD MIXING VALVE FOR SINGLE LAVATORY FAUCETS - REFER TO SPECS FOR THIS SCHEDULE. ALSO PROVIDE WALL HANGER MOUNT, CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT. CHROME-PLATED RIGID SUPPLY WITH WALL ESCUTCHEON, LOOSE KEY WALL STOPS CHICAGO NO. 1017 SUPPLY TUBE AND P-TRAP ASSEMBLY.
UR-1	URINAL	KOHLER K-25048-ET	STANWELL BLOWOUT VITREOUS CHINA URINAL. PROVIDE WITH K-76318-CP 0.5 GPF MANUAL FLUSH VALVE.
S-1	BREAK ROOM SINK	ELKAY D22519	2 BOWL STAINLESS STEEL DROP-IN, SINGLE HOLE SINK. ELKAY LK6000 SINGLE HOLE DECK MOUNT KITCHEN FAUCET WITH PULL DOWN SPRAY. PROVIDE BADGER FWD-2 1/2HP GARBAGE DISPOSAL.
SS-1	SERVICE SINK	AMERICAN STANDARD 7895 008	COMPLETE WITH AMERICAN STANDARD FAUCET NO. 8340 243 WITH VACUUM BREAKER, P-TRAP 7798.030, MCP HANGER, HOSE AND HOSE BRACKET.
EWC-1	ELECTRIC WATER COOLER	ELKAY EZTL8 WITH INTEGRAL CHILLER	BARRIER FREE BI-LEVEL WATER COOLER WITH STANDARD FINISH. INTEGRAL CHILLER SHALL DELIVER 8.0 GPH OF 50°F WATER AT 80°F INLET WATER TEMP AND 90°F ROOM TEMP. 370 WATT, 120-1-60 (4.0 FLA) POWER REQUIREMENT.

WATER HEATER SCHEDULE

MARK	SERVICE	INPUT	STORAGE	RECOVERY	POWER V/PHASE/Hz	REMARKS
WH-1	GENERAL FIXTURES	6KW	19 GALLON	28 GALLONS @ 90°F RISE	480/3/60	BOCK ELECTRIC MODEL LCE20-2. PROVIDE WITH WALL MOUNT OR SUSPENDED PLATFORM FROM STRUCTURE.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-----	SANITARY VENT PIPING (V)	--- ---	PIPING CONNECTION NEW TO EXISTING
-----	SANITARY WASTE PIPING (SS)	☒	FLOOR SINK (FS)
-----	STORM DRAIN PIPING (SD)	□	FLOOR DRAIN (FD)
-----	OVER FLOW PIPING (OF)	○	HUB DRAIN (HD); ROOF DRAIN (RD); OVERFLOW DRAIN(OD)
-----	GREASE WASTE	◎	FLOOR CLEANOUT (FCO) OR GRADE CLEANOUT (GCO)
-----	CONDENSATE DRAIN PIPING (CD)	∞	TWO WAY OR DOUBLE CLEAN OUT (TWOO)
-----	FIRE MAIN	⚡	WATER MOTOR ALARM GONG
-----	COLD WATER PIPING (CW)	∨	FIRE DEPARTMENT SIAMSESE CONNECTION (FDC)
-----	HOT WATER PIPING (HW)	⚡	SINGLE HEAD SHOWER
-----	HOT WATER RETURN PIPING (HWR)	⚡	TRIPLE HEAD SHOWER
-----	AIR OR COMPRESSED AIR	⊙	GAS WATER HEATER
-----	NATURAL GAS PIPING	⊙	ELECTRIC WATER HEATER
-----	UNION	⊙	FLUE
○	SANITARY WASTE PIPING UP	⊙	RECIRCULATING PUMP
○	SANITARY WASTE PIPING DOWN	⊙	GAS METER
○	SANITARY WASTE PIPING THROUGH	⊙	SAND OIL INTERCEPTOR
○	WATER PIPING UP	⊙	ZONE VALVE BOX
○	WATER PIPING DOWN	⊙	SHUT OFF VALVE IN VALVE BOX
○	WATER PIPING TEE UP	⊙	CORNER PIPING
○	WATER PIPING TEE DOWN	⊙	TRAP PRIMER (TP)
○	GAS PRESSURE REGULATOR	⊙	WALL CLEANOUT (WCO)
○	GAS COCK	⊙	FLOW DIRECTION OF PIPING
○	GATE VALVE	⊙	SEE CIVIL DRAWINGS FOR CONTINUATION
○	BALL VALVE	⊙	POINT OF CONNECTION NEW TO EXISTING
○	CHECK VALVE	⊙	INSTANTANEOUS WATER HEATER
○	FIRE SPRINKLER ALARM VALVE	⊙	HOSE BIBB OR NON FREEZE WALL HYDRANT (HB) (NFWH)
○	BALANCING VALVE	⊙	WASHER BOX
○	SOLENOID VALVE	⊙	TEMPERATURE AND PRESSURE RELIEF VALVE
○	SOLENOID MIXING VALVE	⊙	GATE VALVE IN VERTICAL PIPING RISE
○	MIXING VALVE (MV)	⊙	QUICK CONNECT HOSE CONNECTION (QCHC)

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER & MODEL NO.	REMARKS
HB	HOSE BIB	CHICAGO FAUCET 952	POLISHED CHROME SILL FAUCET WITH VACUUM BREAKER.
CO-A	FLOOR CLEANOUT	JOSAM SERIES 56030	CAST IRON BODY WITH NICKEL-ALLOY TOP.
CO-B	FLOOR CLEANOUT (HEAVY DUTY)	JOSAM SERIES 58050-1	CAST IRON BODY WITH HEAVY DUTY, SCORATED NICKEL-ALLOY TOP.
WCO	WALL CLEANOUT	JOSAM SERIES 58790-15	COATED CAST IRON CLEANOUT WITH RECESSED, TAPPED PLUG AND POLISHED STAINLESS STEEL ROUND COVER WITH VANDAL-PROFF SCREW.
HSA	HYDRAULIC SHOCK ABSORBER	JOSAM SERIES 75000	WROUGHT COPPER SHELL. SIZE IN ACCORDANCE WITH P.D.I. STANDARDS.
TP-1	TRAP PRIMER	J.R. SMITH PRIME-EZE WATER SAVER TRAP PRIMER	SIPHON-TYPE TRAP PRIMER (REFER TO DETAIL P0.205).
TP-2	TRAP PRIMER	PRECISION PLUMBING PRODUCTS #P-1	TRAP PRIMER VALVE, 1/2" SUPPLY FROM TOP OF MAIN TO VALVE, 1/2" SUPPLY TO EACH FLOOR HUB OR HUB IN DISTRIBUTION UNIT. REQUIRED DR WATTS DRAINAGE A-200
FD-A	FLOOR DRAIN	JOSAM SERIES 30000-A-50	CAST IRON DRAIN WITH SATIN NICKEL-ALLOY STRAINER, CAST IRON FLANGING COLLAR, AND TRAP PRIMER TAP. ALSO PROVIDE INSERT-TYPE TRAP SEAL DEVICE EQUAL TO J.R. SMITH QUAD-CLOSE.
FD-B	FLOOR DRAIN (DETAIL BAY)	ZURN 2537	18" SQUARE TOP HEAVY-DUTY PARKING DECK DRAIN WITH SUPPORT FLANGE. CAST IRON BODY WITH BOTTOM OUTLET. HEAVY DUTY SLOTTED GRATE.
FS	FLOOR SINK	JR SMITH 3151-12	CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES. 1/2" RESISTANT COATED INTERIOR, NICKEL BRONZE RIM AND SECURED 1/2" GRATE, ALUMINUM SEDIMENT BUCKET OR WATTS DRAINAGE A-200 #4340A-NB
NFWH	NON-FREEZE WALL HYDRANT	J.R. SMITH 5509QT-CP	POLISHED CHROME PLATED FACE AND VACUUM BREAKER.
CB-1	WATER LINE WALL CONNECTION BOX	GUY GREY	1/2" TURN STOP VALVE WITH WALL CONNECTION BOX. CONTRACTOR SHALL COORDINATE FINAL CONNECTION TYPE TO FIXTURE AT ORDER. MODEL NUMBER SHALL BE BASED UPON COPPER, PVC, CPVC OR PEK CONNECTION.
RFBP1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS LF009	REDUCED PRESSURE BACKFLOW PREVENTER: WATTS LF009 LEAD FREE, FURNISH STANDARD WITH THREADED CONNECTIONS, CORNER TURN BALL VALVES, INSTALL AT 36" ABOVE FINISHED FLOOR AND EXTEND RELIEF DRAIN PIPING TO FLOOR DRAIN/SINK.

PUMP SCHEDULE

MARK	SERVICE	GPM	HEAD	RPM	EFF.	HP (MIN)	POWER V/PHASE/Hz	REMARKS
RCP-1	DOMESTIC HOT WATER RECIRCULATION PUMP	5	22FT	2650	-	1/12	120/1/60	BELL AND GOSSETT SERIES PL 308 ALL BRONZE CONSTRUCTION WITH #TC-1 AUTOMATIC TIMER & #AG-3/4 AQUASTAT.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	CW	HW	MIN. SIZE TRAP AND TRAP ARM	VENT
WC (WATER CLOSET)	3/4"	-	4"	2"
LAV (LAVATORY)	1/2"	1/2"	2"	1-1/2"
S-1 (SINK)	1/2"	1/2"	2"	1-1/2"
SS (SERVICE SINK)	3/4"	3/4"	3"	2"
EWC (ELECTRIC WATER COOLER)	1/2"	-	2"	1-1/2"
EEW (EMERGENCY EYEWASH)	3/4"	-	2"	1-1/2"
UR-1	1"	-	3"	2"

MISCELLANEOUS PLUMBING NOTES:

- PROVIDE SHUT-OFF VALVE FOR EACH APPLIANCE AND FIXTURE IN ACCESSIBLE LOCATIONS. REFRIGERATOR ICEMAKERS SHALL BE PROVIDED WITH PREFABRICATED ICEMAKER SUPPLY BOX (ISB) CONNECTION. PROVIDE SHUT-OFF VALVES TO ISOLATE GROUPS OF TWO OR MORE FIXTURES COMPLETE WITH VALVE ACCESS PANEL LOCATED WITHIN THE CHASE WALL OF THE ACCESSIBLE WATER CLOSET OR NEAR TO THE UNDERSIDE OF LAVATORY COUNTERTOPS.
- PROVIDE ISOLATION BALL VALVE IN ACCESSIBLE LOCATION TO CONTROL THE WATER SUPPLY TO INDIVIDUAL WALL HYDRANTS, HOSE BIBS AND NON-FREEZE ROOF HYDRANTS.
- ROUTE DRAIN PIPING FROM THE DRAIN POINT NON-FREEZE ROOF HYDRANTS TO CODE-APPROVED INDIRECT DRAIN RECEPTOR.
- PROVIDE HYDRAULIC SHOCK ABSORBERS FOR WATER SUPPLIES SERVING FLUSH VALVE WATER CLOSETS. SIZE AND PLACEMENT SHALL BE IN ACCORDANCE WITH P.D.I. STANDARDS.
- PROVIDE INDIRECT WASTE PIPING FOR APPLIANCES WITH DRAIN CONNECTIONS AND ROUTE TO INDIRECT WASTE RECEPTOR.

SAND/OIL INTERCEPTOR

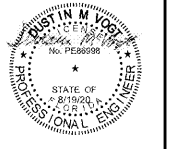
MARK	FIXTURE	MANUFACTURER & MODEL NO.	REMARKS
SI-1	SAND/OIL INTERCEPTOR	STRIEM OS-100	100 GPM, 250 GALLON SAND/OIL INTERCEPTOR. CONTRACTOR TO REFERENCE DETAIL 08P0.3 FOR FULL MODEL SPEC.
SW-1	SAMPLE WELL	SEE DETAIL	TRAFFIC RATED SAMPLE WELL. CONTRACTOR TO REFERENCE DETAIL 08P0.2 FOR FULL DETAILS AND SPEC

GENERAL PLUMBING NOTES:

- ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL WORK SHALL BE PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE CODE AND/OR MANUFACTURERS CLEARANCES.
- ALL BELOW SLAB WASTE PIPING TO BE SLOPED AT 1/4" PER FOOT.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE PORTIONS OF ALL NATIONAL, STATE, AND LOCAL CODES AND STANDARDS. WHERE THE CONTRACT DOCUMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE CODES, THE LATTER SHALL GOVERN.
- GC SHALL ENSURE THAT ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS AND OTHER CEILING DEVICES ARE CENTERED IN CEILING TILES AND IN BETWEEN LIGHT FIXTURES.
- ALL PIPING TO BE INSULATED PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- FURNISH AND INSTALL ALL ITEMS, INCLUDING PARTICULATE DEVICE OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEMS FUNCTIONING AS INDICATED ON THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING, STORAGE, UTILITIES AND ALL REQUIRED PERMITS AND LICENSES.
- EQUIPMENT LOCATION SHALL BE APPROXIMATE. COORDINATE EXACT LOCATION WITH STRUCTURAL AND OTHER EQUIPMENT PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH STRUCTURE AND DISCIPLINES PRIOR TO PURCHASING, CONSTRUCTING, OR INSTALLING ANY PIPING.
- MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'-0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS, AND EXHAUST FANS.
- PROVIDE SHUT OFF VALVES AT EACH FIXTURE BRANCH IN ADDITION TO SHUT OFF VALVES AT FIXTURES FOR MAINTENANCE OR REPLACEMENT OF EACH FIXTURE.
- ALL PIPING SHALL BE CONSTRUCTED, SEALED AND SUPPORTED PER SPECIFICATIONS.
- PROVIDE ALL PLUMBING EQUIPMENT WITH NEW LAMINATED IDENTIFICATION TAGS. LABEL TAGS AS SHOWN ON PLAN.
- ALL GAS FIRED EQUIPMENT TO BE LISTED AND A.S.A. APPROVED. ALL EQUIPMENT SHALL BE ANCHORED TO THE BUILDING STRUCTURE, EXCEPT AS REQUIRED BY IMC SECTIONS 602.2.1.1 THROUGH 602.2.1.6. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM-E-84 OR UL-723.
- PROVIDE SLEEVES AND FLASHINGS REQUIRED FOR PIPING AND DUCTWORK PENETRATIONS. PROVIDE ESCUTCHEON PLATES FOR ALL PIPING PENETRATING FINISHED WALLS AND CEILINGS. ALL INTERIOR AND EXTERIOR WALL PENETRATIONS SHALL BE TIGHTLY SEALED TO MINIMIZE ENTRY OF RODENTS AND INSECTS.
- FIELD VERIFICATION OF EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO SUBMISSION OF BID. THE CONTRACTOR SHALL TAKE NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE APPROXIMATE LOCATIONS OF THE MECHANICAL AND PLUMBING SYSTEMS. LOCATE ALL ITEMS BY ON-THE-JOB MEASUREMENTS. COOPERATE WITH OTHER TRADES TO ENSURE PROPER FIT AND ACCESS TO ALL ITEMS.
- COORDINATE WITH ELECTRICAL TO PROVIDE POWER FOR ALL RECIRCULATION OR CONDENSATE PUMPS, TIME CLOCKS AND HEAT TRACE WIRING WHETHER OR NOT SHOWN ON PLANS.
- CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE ITEMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., INSTALLATION WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT AND THE STRUCTURE. PROVIDE ADDITIONAL RISES AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING CONDUIT, OR CABLE IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE, OR OTHER TRADE WORK, OR WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENT, THE DUCTWORK, CONDUIT, OR CABLE SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT THE WORK, EQUIPMENT, AND MATERIALS FROM DAMAGE BY HIS WORK OR HIS PERSONNEL, AND SHALL CORRECT ALL DAMAGE THUS CAUSED WITHOUT ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, MATERIALS, AND EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT ALL WORK AGAINST THEFT, INJURY, OR DAMAGE AND CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. THE CONTRACTOR SHALL CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DUST, DIRT, AND OBSTRUCTING MATERIAL. THE CONTRACTOR SHALL PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE DUE TO WATER, SPRAY-ON FIREPROOFING, CONSTRUCTION DEBRIS, ETC. IN A MANNER ACCEPTABLE TO THE ENGINEER AND/OR OWNER.

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PLUMBING SCHEDULES
 FILE NAME: 192006
 DRAWN BY:
 DATE: 08/19/2020
 REVIEWED BY: