

PLUMBING FIXTURE SCHEDULE

FIXTURE DATA												PLUMBING FIXTURE SPECIFICATION
MARK	DESCRIPTION	LOCATION	MANUFACTURER	MODEL #	CONNECTION							
					CW	HW	TRAP	WASTE	VENT	GAL.		
DBP-1	DOMESTIC WATER BOOSTER PUMP	RECEIVING	TOWLE WHITNEY	TW1000-20W-40	1-1/2"	-	-	-	-	-	-	FLOOR MOUNT ADJACENT TO THE RPZ BACKFLOW PREVENTER ASSEMBLY WHERE SHOWN. BOOSTER PUMP ASSEMBLY PIPING CONNECTIONS TO THE 1-1/2" DOMESTIC WATER RISER SHALL INCLUDE A 1-1/2" QUARTER TURN BALL VALVE BY-PASS. ASSEMBLY SHALL OPERATE AT 480V/3 PHASE AND SHALL BE A FACTORY ASSEMBLED, WIRED, AND TESTED PACKAGE PRESSURE BOOSTING SYSTEM. THE BOOSTER SYSTEM SHALL BE A FLAG FRAME MOUNTED PACKAGE CONSISTING OF PUMP, ELECTRICAL CONTROL PANEL, VARIABLE FREQUENCY DRIVE WITH TRANSDUCER, A PRE-PIPED 5 GALLON HYDRO-PNEUMATIC STORAGE TANK, PRESSURE GAUGE, RELIEF AND CHECK VALVES, TANK TEE, BRASS NIPPLE AND COPPER FITTINGS. THE SYSTEM SHALL BE SHIPPED WITH ALL COMPONENTS. SOME ASSEMBLY MAY BE REQUIRED. FOLLOW THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROPER ASSEMBLY. THE SYSTEM SHALL BE UL AND NSF61 LISTED. THE PUMP SHALL BE SIZED FOR 30 GPM WITH A 30 PSI BOOST. ELECTRICAL DESIGN IS BASED ON A SINGLE 3/4 HP PUMP. COORDINATE WITH THE ELECTRICAL CONTRACTOR IF PUMP HORSEPOWER IS DIFFERENT. PUMP PRESSURE TO BE SET AT 60 PSI.
ET-1	EXPANSION TANK	RECEIVING	AMTROL	ST-25V	3/4"	--	-	-	-	-	-	WALL MOUNTED THERMAL EXPANSION TANK. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FOR TWO TANK WATER HEATER SYSTEM.
ET-2	EXPANSION TANK	SUPPORT	AMTROL	ST-5V	3/4"	-	-	-	-	-	-	WALL MOUNTED THERMAL EXPANSION TANK. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FOR ONE TANK WATER HEATER SYSTEM.
EW-1	EYEWASH (COUNTERTOP MOUNTED)	TREATMENT	ENCON	1040128	1/2"	1/2"	-	-	-	-	-	COUNTERTOP MOUNTED SWING AWAY EYEWASH WITH 10-1/2" RADIUS, LEFT-HAND PULL OR RIGHT HAND PULL CAPABILITY. SEE DRAWINGS FOR ORIENTATION. INSTALL YELLOW COLORED EYEWASH PULL PLACARD ON THE COUNTERTOP UNDERNEATH THE EYEWASH ARM. INSTALL THE EYEWASH WALL MOUNT SIGN ON THE WALL ABOVE THE SINK. EYEWASH UNIT MUST HAVE DEDICATED MIXING VALVE, SEE MW-3 BELOW.
MV-3	EYEWASH MIXING VALVE	TREATMENT	POWERS	ES150	1/2"	1/2"	-	-	-	-	-	LOCKABLE THERMOSTATIC MIXING VALVE FOR EYEWASH ONLY. COMBINATION THERMOSTATIC AND PRESSURE REGULATING BALANCING MIXING VALVE FOR SUPPLYING TEMPERED WATER TO EYEWASH UNIT ONLY. VALVE SHALL HAVE A DUAL INTERNAL COLD WATER BY-PASS TO ENSURE FLOW IN EVENT OF VALVE FAILURE OR LOSS OF HOT WATER SUPPLY. BY-PASS SHALL RESPOND TO CHANGES IN TEMPERATURE AND PRESSURE. INSTALL VALVE IN SINK CABINET PER MANUFACTURER'S RECOMMENDATIONS. SET MIXING VALVE TEMPERATURE AT 85 DEG. F.
EW-2	EYEWASH (FAUCET MOUNTED)	TREATMENT	GUARDIAN	G1100	-	-	-	-	-	-	-	CHROME PLATED BRASS WITH ADJUSTABLE OUTLET HEADS 3" APART. FLOAT-OFF DUST COVERS. FORGED BRASS DIVERTER VALVE, AND REMOVABLE AERATOR ON THE BOTTOM. BODY INLET TO BE 5/8"-27 FEMALE THREADED AND FURNISHED WITH THREE ADAPTERS, 15/16"-27, 13/16"-27, 3/8" IPS AND OPTIONAL 13/16"-24 FEMALE THREADED INLET ADAPTER.
EW-1	ELECTRIC WATER COOLER	HALL A	OASIS	PG8ACSL-U	1/2"	-	-	1-1/4"	2"	1-1/2"	-	TWO STATION WALL MOUNT WATER COOLER, ADA, FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON LEFT.
FD-1	FLOOR DRAIN	RECEIVING, MEN'S/WOMEN'S RESTROOMS, SUPPORT	ZURN	ZN415B-3NH-P	-	-	-	3"	3"	1-1/2"	-	CAST IRON BODY WITH 3" NO-HUB BOTTOM OUTLET, COMBINATION CLAMP AND COLLAR WITH SEEPAGE SLOTS, 5" DIA. ADJUSTABLE NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION. PROVIDE WITH DEEP SEAL P-TRAP.
FD-2	FLOOR DRAIN	RECEIVING	ZURN	Z505-4NH-HP-P-VP	-	-	-	4"	4"	2"	-	CAST IRON BODY WITH 4" NO-HUB BOTTOM OUTLET, 12" DIA. CAST IRON TOP, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY DUTY DEEP FLANGE SLOTTED GRATE, HEEL-PROOF GRATE, 1/2" TRAP PRIMER CONNECTION AND VANDAL-PROOF SECURED TOP. PROVIDE WITH DEEP SEAL P-TRAP.
HB-1	HOSE BIBB	EXTERIOR OF BUILDING	ZURN	Z1321	3/4"	-	-	-	-	-	-	EXPOSED ECOLOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER, COPPER CASING, ALL BRONZE INTERIOR PARTS WITH 1/2 TURN CERAMIC DISC CARTRIDGE AND COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET, STAINLESS STEEL FACE WITH OPERATING KEY LOCK. ALL SOLDER CONNECTIONS ARE LEAD FREE.
HB-2	HOSE BIBB	KENNEL ROOM	ZURN	Z1349-34FS-VB	3/4	-	-	-	-	-	-	RECESSED NARROW WALL HYDRANT WITH 3/4" FEMALE SOLDER INLET ADAPTER AND VACUUM BREAKER. PROVIDE HOSE BIBB KEY AND SECURE TO DOG RUN GATE WITH A CHAIN.
HT-1	HAIR INTERCEPTOR	BATHING AREA	J.R. SMITH	8790	-	-	-	-	4"	-	-	HAIR INTERCEPTOR WITH YOKE TYPE COVER. TO BE INSTALLED IN MINIMUM 12X16 VAULT WITH NON-SLIP FLOOR FASTENED COVER.
L-1	LAVATORY	MEN'S/WOMEN'S RESTROOMS	KOHLER	K-2032 GREENWICH	-	-	-	-	2"	1-1/2"	-	20"x18" WALL MOUNT ADA COMPLIANT VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES ON 4" CENTERS. PROVIDE ZURN Z1231-E2 BACK-TO-BACK FLOOR MOUNTED IN-WALL FIXTURE CARRIER TO SUPPORT BOTH L-1 FIXTURES WITH ONE CARRIER.
LF-1	LAVATORY FAUCET	MEN'S/WOMEN'S RESTROOMS	ZURN	Z744-XL SIERRA	1/2"	1/2"	-	-	-	-	-	PROVIDE WITH LEAD-FREE BRUSHED NICKEL BRASS CENTERSET SINGLE CONTROL LEVER FAUCET W/ INTEGRAL SPOUT, CERAMIC DISC CARTRIDGE, AND 0.5 GPM VANDAL-RESISTANT SPRAY OUTLET.
LTW-1	LAVATORY TRAP WRAP	MEN'S/WOMEN'S RESTROOMS	TRUEBRO	LAV GUARD KIT #102	-	-	-	-	-	-	-	PROVIDE WITH WATTS MODEL 899AGC AIR GAP FITTING. EXTEND DISCHARGE PIPING FULL SIZE AND WITHOUT TRAP. DISCHARGE INTO FLOOR DRAIN.
MPS-1	MULTIPURPOSE SINK	HOLDING #1 HOLDING #2 FISH PREP SUPPORT	MUSTEE	15F UTILATUB	-	-	-	1-1/2"	1-1/2"	1-1/2"	-	SINGLE COMPARTMENT 19 GALLON SINK ONE-PIECE MOLDED CONSTRUCTION. ACCOMMODATES DUEL HANDLE FAUCET WITH 4" CENTER, HEAVY GAUGE STEEL LEGS WITH BUILT-IN LEVELERS. SECURE LEGS TO FLOOR.
MPSF-1	MULTIPURPOSE SINK FAUCET	HOLDING #1 HOLDING #2 FISH PREP SUPPORT	ZURN	Z-812M4	1/2"	1/2"	-	-	-	-	-	PROVIDE FAUCET WITH INTEGRAL VACUUM BREAKER, 3/4" THREADED OUTLET, PAIL HOOK AND WALL BRACE.
MS-1	MOP SINK	RECEIVING SUPPORT	ZURN	Z1996-24	-	-	-	-	3"	1-1/2"	-	MOP SERVICE BASIN 24"x24"x12" DEEP, MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND GASKETED OUTLET CONNECTION. PROVIDE 3 POSITION MOP BASIN HOSE HANGER, 3" WIDE x 26" LONG S.S. MOP HANGER WITH 3 RUBBER TOOL GRIP FITTINGS (ZURN MODEL Z1996-MH).
MSF-1	MOP SINK FAUCET	RECEIVING SUPPORT	ZURN	Z843M1-XL	3/4"	3/4"	-	-	-	-	-	PROVIDE FAUCET WITH INTEGRAL VACUUM BREAKER, 3/4" THREADED OUTLET, PAIL HOOK AND ADJUSTABLE WALL BRACE. INSTALL FAUCET AT 40" AFF.
MV-1	MIXING VALVE	RECEIVING	POWERS	HYDROGUARD LFM4M34-1	1-1/4"	1-1/4"	-	-	-	-	-	LEAD FREE THERMOSTATIC MIXING VALVE WITH ROUGH BRONZE BODY, STANDARD TEMPERATURE RANGE, PARAFFIN-BASED THERMAL ACTUATION, DIRT AND LIME RESISTANT POPPETS AND SEATS, VIRTUAL SHUT-OFF ON LOSS OF INCOMING PRESSURE, VANDAL-RESISTANT LOCKING MECHANISM, ROTATABLE UNION TRIPLE DUTY CHECKSTOPS, 1-1/4" INLETS AND 1-1/2" OUTLET. SET DISCHARGE TEMPERATURE AT 110 DEG. F. INSTALL MIXING VALVE PIPING CONNECTIONS TO THE WATER HEATERS PER THE PLANS FOR A TWO TANK WATER HEATER SYSTEM.
MV-2	MIXING VALVE	SUPPORT	POWERS	HYDROGUARD LFMVMV1-US	3/4"	3/4"	-	-	-	-	-	LEAD FREE THERMOSTATIC MIXING VALVE WITH CAST COPPER SILICON ALLOY BODY, STANDARD TEMPERATURE RANGE, SOLID WAD HYDRAULIC PRINCIPLE THERMOSTAT, INTEGRAL FILTER WASHERS AND CHECK VALVES, AND AN ADJUSTMENT GAP WITH LOCKING FEATURE, 3/4" INLETS AND 3/4" OUTLET. SET DISCHARGE TEMPERATURE AT 110 DEG. F.
RH-1	ROOF HYDRANT	ROOF	WOODFORD	SRH-MS	3/4"	-	-	-	-	-	-	NON-FREEZE ROOF HYDRANT WITH 3/4" NPT INLET, WELL SEAL, RUBBER BOOT, AND MOUNTING SYSTEM CONSISTING OF: CAST IRON HYDRANT SPOUT, CAST IRON HYDRANT SUPPORT, CAST IRON SHIM, CAST IRON UNDER DECK FLANGE, AND MOUNTING BOLTS, NUTS, AND WASHERS. PROVIDE WITH MOP ASSE 1052 DUAL CHECK - AUTO DRAIN BACKFLOW PREVENTER. SEE DETAIL ON SHEET P2.0.
RP-1	RECIRCULATION PUMP	RECEIVING SUPPORT	BELL & GOSSETT	NBF 22U	-	3/4"	-	-	-	-	-	DOMESTIC HOT WATER RECIRCULATION PUMP WITH BRONZE BODY, SYSTEM LUBRICATED CIRCULATOR, 92 WATTS, 115 V, 1 PHASE, 3000 RPM, AND 4 GPM @ 12 F.O.W.
RPA-1	RECIRCULATION PUMP AQUASTAT	RECEIVING SUPPORT	BELL & GOSSETT	AQS-3/4	-	3/4"	-	-	-	-	-	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY WITH BRONZE BODY CONSTRUCTION, QUARTER-TURN BALL VALVES, AND REPLACEABLE SEATS. MOUNT IN HORIZONTAL POSITION. PROVIDE WITH WATTS MODEL 899AGC AIR GAP FITTING. EXTEND DISCHARGE PIPING FULL SIZE AND WITHOUT TRAP. DISCHARGE INTO FLOOR DRAIN.
RPZ-1	BACKFLOW PREVENTOR	RECEIVING	WATTS	LF009M20T	1-1/2"	-	-	-	-	-	-	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY WITH BRONZE BODY CONSTRUCTION, QUARTER-TURN BALL VALVES, AND REPLACEABLE SEATS. MOUNT IN HORIZONTAL POSITION. PROVIDE WITH WATTS MODEL 899AGC AIR GAP FITTING. EXTEND DISCHARGE PIPING FULL SIZE AND WITHOUT TRAP. DISCHARGE INTO FLOOR DRAIN.
S-1	SINK	SEE LOCATIONS ON DRAWINGS	ELKAY	PSRADQ191955L-3	-	-	-	1-1/2"	2"	1-1/2"	-	20 GAUGE 19-1/2" x 19" SINGLE COMPARTMENT 304 S.S. SINK WITH 16"x13-1/2" x 5-1/4" DEEP BOWL AND 3 HOLES. PROVIDE LK-35 STRAINER. PROVIDE P-TRAP WITH CLEANOUT PLUG. INSTALL CHROME ESCUTCHEONS ON THE WATERLINES AND DRAINLINE.
SF-1	SINK FAUCET	SEE LOCATIONS ON DRAWINGS	ZURN	Z831C4-XL-2F	1/2"	1/2"	-	-	-	-	-	PROVIDE FAUCET W/ 8" CENTERLINE SWING GOOSENECK SPOUT, 2.2 GPM VANDAL-RESISTANT PRESSURE COMPENSATING FEMALE AERATOR.
S-2	SINK	EXAM ROOMS (WHERE OCCURS)	ELKAY	PSR1517 (1 HOLE)	-	-	-	1-1/2"	2"	1-1/2"	-	20 GAUGE 15" x 17-1/2" SINGLE COMPARTMENT 304 S.S. SINK WITH 12"x12" x 7" DEEP BOWL AND 1 HOLE. PROVIDE LK-35 STRAINER. PROVIDE P-TRAP WITH CLEANOUT PLUG. INSTALL CHROME ESCUTCHEONS ON THE WATERLINES AND DRAINLINE.
SF-2	SINK FAUCET	EXAM ROOMS (WHERE OCCURS)	ZURN	Z826B1-XL	1/2"	1/2"	-	-	-	-	-	PROVIDE FAUCET W/ 5-3/8" CENTERLINE SWING GOOSENECK SPOUT, 2.2 GPM VANDAL-RESISTANT PRESSURE COMPENSATING FEMALE AERATOR.
S-3	SINK	TREATMENT	ELKAY	DLR172210-2 (2 HOLE)	-	-	-	1-1/2"	2"	1-1/2"	-	18 GAUGE 17" x 22" SINGLE COMPARTMENT 304 S.S. SINK WITH 13-1/2"x16" x 10" DEEP BOWL AND 2 HOLE PUNCHED, CENTERED DRAIN OPENING. PROVIDE LKJ-35 STRAINER. INSTALL CHROME ESCUTCHEONS ON THE WATERLINES AND DRAINLINE.
SF-3	SINK FAUCET	TREATMENT	ZURN	Z812U4-XL-4F	1/2"	1/2"	-	-	-	-	-	PROVIDE FAUCET W/ 6" CENTERLINE RIGID BENT RISER SPOUT W/ VACUUM BREAKER, 2.2 GPM VANDAL-RESISTANT PRESSURE COMPENSATING MALE LAMINAR FLOW OUTLET, VANDAL-RESISTANT COLOR-CODED METAL WRIST BLADE HANDLES. INSTALL HANDLES SO THAT THE "OFF" POSITION THEY ARE PARALLEL WITH THE WALL. PROVIDE P-TRAP WITH CLEANOUT PLUG.
SF-4	SINK FAUCET (WET TABLE)	TREATMENT	ZURN	Z831C4-HS6-2F	1/2"	1/2"	-	-	-	-	-	PROVIDE FAUCET W/ 8" CENTERLINE SWING GOOSENECK SPOUT, 2.2 GPM VANDAL-RESISTANT LAMINAR FLOW OUTLET. PROVIDE 8" VINYL HOSE FOR SPRAYER AND INSTALL WILKINS MODEL 7350L VACUUM BREAKER ON THE HOSE SPRAYER. VANDAL-RESISTANT COLOR-CODED METAL WRIST BLADE HANDLES SO THAT IN THE "OFF" POSITION THEY ARE PARALLEL WITH THE WALL. PROVIDE P-TRAP WITH CLEANOUT PLUG. INSTALL CHROME ESCUTCHEONS ON THE WATER LINES AND DRAIN LINE.
SP-1	SCAVENGER PUMP	TREATMENT	SUPERA	EVC-3000	-	-	-	-	-	-	-	SCAVENGER VACUUM POWER UNIT, MOUNT +12-0" A.F.F., FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE 2" SCHD 40 CPVC VENT THRU ROOF. SEE DETAILS 16/P2.0 AND 17/P2.0.
SPD-1	SCAVENGER PIPE DROP (CEILING)	SURGERY X-RAY	SUPERA	EVC680PS	-	-	-	-	-	-	-	EVAC CEILING OUTLET KIT: ROUGH-IN OUTLET BOX WITH FINISH PLATE, 1/2 SCHD 40 FEMALE INLET, 22mm CALIBRATED INLET NIPPLE, 4" - 22mm HOSE FOR CEILING DROP, AND 22mm MALE x MALE ADAPTER.
SPD-2	SCAVENGER PIPE DROP (WET TABLE)	TREATMENT	SUPERA	EVC682	-	-	-	-	-	-	-	WET TABLE EVAC OUTLET KIT: ROUGH-IN OUTLET BOX WITH FINISH PLATE, 1/2 SCHD 40 FEMALE INLET, 22mm CALIBRATED OUTLET NIPPLE, AND 90 DEGREE CHROME ELBOW.
SST-1	WALL FAUCET	BATHING AREA	ZURN	Z843L1-90-YJ	3/4"	3/4"	-	-	-	-	-	POLISHED CHROME 8" WASH DOWN FAUCET W/ VACUUM BREAKER SPOUT, INTEGRAL HOSE THREADED SPOUT, VANDAL RESISTANT COLOR CODED LEVER HANDLES AND SPLIT RING WALL BRACE.
TD-1	TRENCH DRAIN	DRYING AREA BATHING AREA DOG RUN	ZURN	PERMA-TRENCH Z-886-HP-P-GL-(2) E1-U4-DB	-	-	-	4"	4"	2"	-	6" WIDE PRE-SLOPED TRENCH DRAIN WITH INTEGRAL TOP FRAME, INTERLOCKING ENDS AND RADIUSSED BOTTOM, PM886HP HEEL-PROOF POLYETHYLENE GRATE, 4" NO-HUB BOTTOM OUTLET. LENGTH OF DRAIN PER DIMENSIONS ON A-2.0 SHEET. PROVIDE WITH BOTTOM DOME STRAINER.
TD-2	TRENCH DRAIN	FISH EQUIPMENT	ZURN	PERMA-TRENCH Z-886-(2) E1-U3-SPECIAL	-	-	-	3"	3"	1-1/2"	-	8608N SECTION 10" W/ REBAR CLIPS @ CENTER WITHOUT GRATE. 6"x10"x8" DEEP. GRATE TO BE FLUSH WITH FIN. FLOOR. NO-LIP.
TG-1	TEMPERATURE GAUGE	RECEIVING SUPPORT	MILJOCO	B259951-2W	-	-	1/4"	-	-	-	-	TEMPERATURE GAUGE, 2-1/2" DIAMETER DIAL, STEEL CASE, ACRYLIC LENS, WHITE ALUMINUM DIAL WITH BLACK MARKINGS, BRASS MOVEMENT WITH PRECISION-MILLED TEETH, 1/4" NPT BOTTOM OUTLET, +/-3-2-3% ACCURACY, -40 TO 150 DEG. F. PROCESS TEMPERATURE. INSTALL ACCESSIBLE ABOVE THE CEILING AT THE DISCHARGE OF THE SELF DUG WASH MIXING VALVE.
TP-1	TRAP PRIMER	SEE LOCATIONS ON DRAWINGS	PPP	P1-500 W/ TAPPED P-TRAP ADAPTER	1/2"	-	-	-	-	-	-	TRAP PRIMER VALVE WITH INTEGRAL BACKFLOW PREVENTER & VACUUM BREAKER PORT. PROVIDE DISTRIBUTION UNIT (DU-U) AS REQUIRED. ROUTE 1/2" PEX POLYETHYLENE TUBING DOWN IN WALL AND BELOW SLAB TO P-TRAP. PLUG UNUSED DISTRIBUTION UNIT PORTS.
U-1	URINAL	MEN'S RESTROOM	ZURN	Z5755-U	3/4"	-	-	2"	2"	2"	-	VITREOUS CHINA, WALL HUNG, INTEGRAL TRAP, WASH DOWN URINAL COMPLETE WITH 3/4" TOP SPUD CONNECTION, CONCEALED UNIVERSAL RETROFIT WALL BRACKET, 2" OUTLET CONNECTION AND VANDAL RESISTANT OUTLET STRAINER.
UF-1	URINAL FLUSH VALVE	MEN'S RESTROOM	ZURN	Z6003-WS1-YB	3/4"	-	-	-	-	-	-	PROVIDE WITH URINAL FLUSH VALVE - ZURN MODEL Z-6003-WS1-YB.
WB-1	ICE MAKER OUTLET BOX	ASSOCIATE RESOURCES	SIOUX CHIEF	696 SERIES "OX" BOX	1/2"	-	-	-	-	-	-	ABS OUTLET BOX WITH FRAME AND BRACKET. PROVIDE BALL VALVE WITH WATER HAMMER ARRESTOR AND 1/4" OUTLET. PROVIDE WATTS SERIES 7 DUAL CHECK VALVE AND BALL VALVE SHUT-OFF IN 1/2" CW SUPPLY LINE.
WB-2	WASHING MACHINE OUTLET BOX	SUPPORT	OATEY	38540	1/2"	1/2"	-	-	2"	-	-	(2) 1/4" TURN BALL VALVES WITH VACUUM BREAKERS, SWEAT CONNECTION, 2" DRAIN OPENINGS, HIGH IMPACT POLYSTYRENE BOX, AND TRIM RING.
WC-1	WATER CLOSET	MEN'S RESTROOM WOMEN'S RESTROOM	MANSFIELD	148-122 - ADA	1/2"	-	-	-	4"	2"	-	FLOOR MOUNTED VITREOUS CHINA 1.6 GALLON FLUSH, WITH POLISHED CHROME LEVEL HANDLE ACTUATOR, SMARTHEIGHT ELONGATED FRONT TWO PIECE, PRESSURE-ASSIST WATER CLOSET, 12" ROUGH-IN, WITH VANDAL RESISTANT KIT. PROVIDE CHURCH OPEN FRONT SEAT. LOW CONSUMPTION FIXTURE.
WH-1 WH-2	WATER HEATER	RECEIVING	BRADFORD WHITE	E32-80R-3-3H135	1-1/4"	1-1/4"	-	-	-	-	80	80 GALLON ELECTRIC WATER HEATER WITH THREE (3) 4.5KW ELEMENTS CAPABLE OF SIMULTANEOUS OPERATION FOR TOTAL INPUT OF 13.5KW, 480 VOLT/3 PHASE AND A MINIMUM RECOVERY OF 56 GPH @ 100°F TEMPERATURE RISE. THE WATER HEATER TANK SHALL BE HEAVY GAUGE ROLLED, FORMED, AND WELDED STEEL WITH VITRAGLAS ENAMEL LINING, 1-1/4" NPT FACTORY INSTALLED TRUE DIELECTRIC FITTINGS AND LOW RESTRICTION BRASS DRAIN VALVE, INSULATED WITH 2" NON-CFC FOAM INSULATION. PROVIDE UNIT WITH FACTORY INSTALLED HEAT TRAPS, FACTORY INSTALLED HYDROJET TOTAL PERFORMANCE SYSTEM, FULLY AUTOMATIC CONTROLS, PROTECTIVE MAGNESIUM ANODE ROD AND AN ASME RATED 1" P RELIEF VALVE. THE ENTIRE INSTALLATION SHALL BE MADE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES. THE T&P RELIEF LINE SHALL BE TERMINATED OVER THE FLOOR DRAIN (FD-1) FLOOD RIM WITH A MINIMUM 2" AIR GAP. SET WATER HEATER TEMPERATURE CONTROL AT 160 DEG. F.
WH-1 WH-2	WATER HEATER	RECEIVING	BRADFORD WHITE	E32-80R-3-3L135	1-1/4"	1-1/4"	-	-	-	-	80	80 GALLON ELECTRIC WATER HEATER WITH THREE (3) 4.5KW ELEMENTS CAPABLE OF SIMULTANEOUS OPERATION FOR TOTAL INPUT OF 13.5KW, 208 VOLT/3 PHASE AND A MINIMUM RECOVERY OF 56 GPH @ 100°F TEMPERATURE RISE. THE WATER HEATER TANK SHALL BE HEAVY GAUGE ROLLED, FORMED, AND WELDED STEEL WITH VITRAGLAS ENAMEL LINING, 1-1/4" NPT FACTORY INSTALLED TRUE DIELECTRIC FITTINGS AND LOW RESTRICTION BRASS DRAIN VALVE, INSULATED WITH 2" NON-CFC FOAM INSULATION. PROVIDE UNIT WITH FACTORY INSTALLED HEAT TRAPS, FACTORY INSTALLED HYDROJET TOTAL PERFORMANCE SYSTEM, FULLY AUTOMATIC CONTROLS, PROTECTIVE MAGNESIUM ANODE ROD AND AN ASME RATED 1" P RELIEF VALVE. THE ENTIRE INSTALLATION SHALL BE MADE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES. THE T&P RELIEF LINE SHALL BE TERMINATED OVER THE FLOOR DRAIN (FD-1) FLOOD RIM WITH A MINIMUM 2" AIR GAP. SET WATER HEATER TEMPERATURE CONTROL AT 160 DEG. F.
WH-1 WH-2	WATER HEATER	RECEIVING	BRADFORD WHITE	E32-80R-3-3H18	1-1/4"	1-1/4"	-	-	-	-	80	80 GALLON ELECTRIC WATER HEATER WITH THREE (3) 6KW ELEMENTS CAPABLE OF SIMULTANEOUS OPERATION FOR TOTAL INPUT OF 18KW, 480 VOLT/3 PHASE AND A MINIMUM RECOVERY OF 74 GPH @ 100°F TEMPERATURE RISE. THE WATER HEATER TANK SHALL BE HEAVY GAUGE ROLLED, FORMED, AND WELDED STEEL WITH VITRAGLAS ENAMEL LINING, 1-1/4" NPT FACTORY INSTALLED TRUE DIELECTRIC FITTINGS AND LOW RESTRICTION BRASS DRAIN VALVE, INSULATED WITH 2" NON-CFC FOAM INSULATION. PROVIDE UNIT WITH FACTORY INSTALLED HEAT TRAPS, FACTORY INSTALLED HYDROJET TOTAL PERFORMANCE SYSTEM, FULLY AUTOMATIC CONTROLS, PROTECTIVE MAGNESIUM ANODE ROD AND AN ASME RATED 1" P RELIEF VALVE. THE ENTIRE INSTALLATION SHALL BE MADE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES. THE T&P RELIEF LINE SHALL BE TERMINATED OVER THE FLOOR DRAIN (FD-1) FLOOD RIM WITH A MINIMUM 2" AIR GAP. SET WATER HEATER TEMPERATURE CONTROL AT 160 DEG. F.
WH-1 WH-2	WATER HEATER	RECEIVING	BRADFORD WHITE	E32-80R-3-3L18	1-1/4"	1-1/4"	-	-	-	-	80	80 GALLON ELECTRIC WATER HEATER WITH TWO (2) 3KW ELEMENTS CAPABLE OF SIMULTANEOUS OPERATION FOR TOTAL INPUT OF 6KW, 240 VOLT/1 PHASE AND A MINIMUM RECOVERY OF 21 GPH @ 90°F TEMPERATURE RISE. THE WATER HEATER TANK SHALL BE HEAVY GAUGE ROLLED, FORMED, AND WELDED STEEL WITH VITRAGLAS ENAMEL LINING, 3/4" NPT FACTORY INSTALLED TRUE DIELECTRIC FITTINGS AND LOW RESTRICTION BRASS DRAIN VALVE, INSULATED WITH 2" NON-CFC FOAM INSULATION. PROVIDE UNIT WITH FACTORY INSTALLED HEAT TRAPS, FACTORY INSTALLED HYDROJET TOTAL PERFORMANCE SYSTEM, FULLY AUTOMATIC CONTROLS, PROTECTIVE MAGNESIUM ANODE ROD AND AN ASME RATED 1" P RELIEF VALVE. THE ENTIRE INSTALLATION SHALL BE MADE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES. THE T&P RELIEF LINE SHALL BE TERMINATED OVER THE FLOOR DRAIN (FD-1) FLOOD RIM WITH A MINIMUM 2" AIR GAP. SET WATER HEATER TEMPERATURE CONTROL AT 160 DEG. F.
WH-3	WATER HEATER	SUPPORT	A.O. SMITH	HNT-50	3/4"	3/4"	-	-	-	-	50	50 GALLON ELECTRIC WATER HEATER WITH TWO (2) 3KW ELEMENTS CAPABLE OF SIMULTANEOUS OPERATION FOR TOTAL INPUT OF 6KW, 240 VOLT/1 PHASE AND A MINIMUM RECOVERY OF 21 GPH @ 90°F TEMPERATURE RISE. THE WATER HEATER TANK SHALL BE HEAVY GAUGE ROLLED, FORMED, AND WELDED STEEL WITH VITRAGLAS ENAMEL LINING, 3/4" NPT FACTORY INSTALLED TRUE DIELECTRIC FITTINGS AND LOW RESTRICTION BRASS DRAIN VALVE, INSULATED WITH 2" NON-CFC FOAM INSULATION. PROVIDE UNIT WITH FACTORY INSTALLED HEAT TRAPS, FACTORY INSTALLED HYDROJET TOTAL PERFORMANCE SYSTEM, FULLY AUTOMATIC CONTROLS, PROTECTIVE MAGNESIUM ANODE ROD AND AN ASME RATED 1" P RELIEF VALVE. THE ENTIRE INSTALLATION SHALL BE MADE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES. THE T&P RELIEF LINE SHALL BE TERMINATED OVER THE FLOOR DRAIN (FD-1) FLOOD RIM WITH A MINIMUM 2" AIR GAP. SET WATER HEATER TEMPERATURE CONTROL AT 160 DEG. F.
NOTE: G.C. TO PURCHASE ALL PLUMBING FIXTURES BY NATIONAL VENDOR, NO SUBSTITUTIONS.												

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PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
---	W	DRAIN OR WASTE
----	V	VENT PIPING
-----	CW	COLD WATER
-----	HW	HOT WATER
-----	HWR	HOT WATER RETURN
-----	VA	VACUUM / SCAVENGER PIPING
-----	RWL	RAIN WATER LEADER
	S.O.V.	SHUT-OFF VALVE
	C.V.	CHECK VALVE
	VTR	VENT THRU ROOF
	UNION	
	HB	HOSE BIBB W/ VACUUM BREAKER
	F	FIRE SPRINKLER LINE
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	GCO	GRADE CLEANOUT
	WCO	WALL CLEANOUT
	C/O	STORM PIPE CLEANOUT
	CD	CONDENSATE DRAIN PIPING
	R	GAS REGULATOR
	BV	CALIBRATED BALANCING VALVE
	G	GAS PIPING
	-	GAS SHUT-OFF/COCK VALVE (AT RTU)
	XXX (E)	EXISTING PIPING (I.E. CW (E), G (E), W (E) ETC.)
	A.H.J.	AUTHORITY HAVING JURISDICTION
	F.D.C.	FIRE DEPARTMENT CONNECTION
	N.P.T.	NATIONAL PIPE THREAD
	N.S.T.	NATIONAL STANDARD THREADS
	N.T.S.	NOT TO SCALE
	XX-X	PLUMBING FIXTURE DESIGNATION
	XXX-X	HVAC EQUIPMENT DESIGNATION (FOR REFERENCE ONLY)
	-	CONN. TO EXISTING PIPING / ELEVATION
	-	PLUMBING KEYED NOTE

NOTE: NOT ALL PLUMBING SYMBOLS AND ABBREVIATIONS ARE NECESSARILY USED IN THE PROJECT.

NOTE: CONSTRUCTION TRADES MUST USE THE ARCHITECTURAL PLANS FOR WORK INSTALLATION. THIS INCLUDES ALL APPLICABLE DETAILS, REFLECTED CEILING PLANS, AND INTERIOR ELEVATIONS.

PLUMBING GENERAL NOTES:
(FOR ALL PLUMBING SHEETS)

- THIS PROJECT WAS DESIGNED UNDER 2018 INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL AMENDMENTS.
- PLUMBING CONTRACTOR SHALL FIELD COORDINATE EXACT PIPE ROUTING WITH ALL CONSTRUCTION TRADES PRIOR TO INSTALLATION.
- UTILITIES NOTES:
 - C.a CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO SITE UTILITY SERVICE PRIOR TO STARTING ANY NEW WORK.
 - C.b CONTRACTOR SHALL ADJUST LOCATION AND DEPTH OF SITE SERVICES AS REQUIRED TO PETSMAST UTILITY LOCATIONS.
 - C.c CONTRACTOR SHALL MAKE FINAL CONNECTION TO SITE UTILITY SERVICES UNLESS OTHER PROVISIONS HAVE BEEN MADE.
 - C.d CONTRACTOR'S FAILURE TO PROPERLY COORDINATE SERVICES SHALL NOT BE JUSTIFICATION FOR ANY EXTRA CHARGES.
- ALL FLOOR CLEANOUTS AT MAIN SALES FLOOR ARE TO BE LOCATED A MINIMUM OF 4" FROM FACE OF PALLET RACKS BUT NOT BENEATH - SEE FIXTURE PLAN F1.0 FOR COORDINATION WITH RACKING.
- ALL FIRE AND DOMESTIC WATER PIPING SHALL BE INSTALLED ABOVE THE BOTTOM CHORD OF JOIST THROUGHOUT THE STORE WHERE CEILING DOES NOT EXIST. ALL PLUMBING FIXTURES SHALL HAVE A SHUT OFF VALVE AT ALL SUPPLY BRANCHES. BRANCH SHUT OFF VALVES SHALL BE INSTALLED NO HIGHER THAN 12 INCHES ABOVE THE CEILING TO BE ACCESSIBLE FOR MAINTENANCE PURPOSES. PROVIDE ACCESS PANELS AS NEEDED.
- COORDINATE WATER LINES WITH ELECTRICAL CONTRACTOR. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS OR EQUIPMENT OR CLEAR WORKING SPACE.
- PLUMBING CONTRACTOR SHALL INSTALL ALL NECESSARY WALL AND/OR FLOOR CLEANOUTS TO BE ACCESSIBLE FOR MAINTENANCE PURPOSES. INSTALL A CLEANOUT 12" A.F.F. AS SHOWN ON PLAN (SHOWN AT 45° FOR CLARITY ONLY. SHALL BE FLUSH WITH FINISH SURFACE OF WALL). WASTE/VENT, HOT AND COLD WATER ROUGH-IN TO BE CENTERED UNDER SINK SIDE BY SIDE (EXCEPT WHERE IT IS IMPOSSIBLE PER SITE CONDITIONS AND MENTIONED IN KEYED NOTES) AND @ 12" A.F.F. CHECK WITH ADVANCED FIXTURE INCORPORATED (A.F.I.) BEFORE INSTALLING CLEANOUT. LOWER CLEANOUT IF REQUIRED TO AVOID CONFLICT. NO CLEANOUTS ALLOWED IN AGROVYN WALL PANEL OR CERAMIC TILE.
- ALL FAUCETS CAPABLE SHALL RECEIVE PLASTIC SLEEVES/INSERT TO ALLOW FAUCET SWIVEL.
- PRIOR TO SUBMITTING A BID THE PLUMBING CONTRACTOR SHALL VERIFY WITH LOCAL CODE OFFICIALS THAT PEX PIPING IS APPROVED FOR WATER DISTRIBUTION SYSTEMS. IF PEX PIPING IS APPROVED, ALL WATER PIPING 2" AND SMALLER