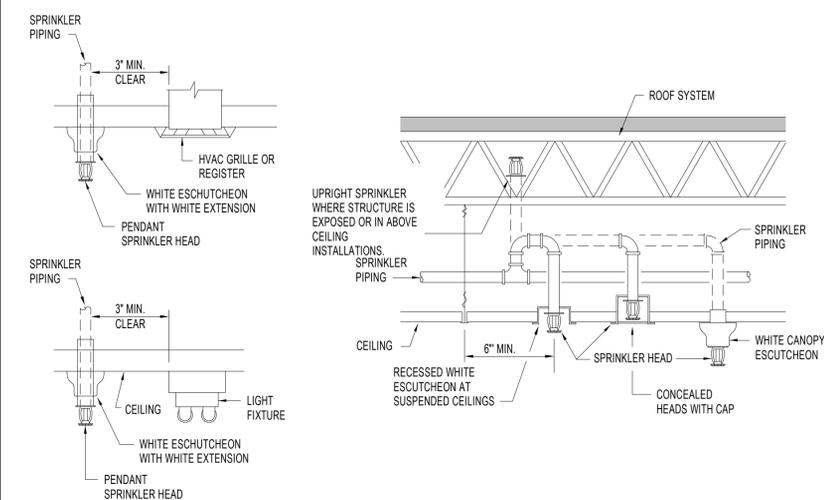
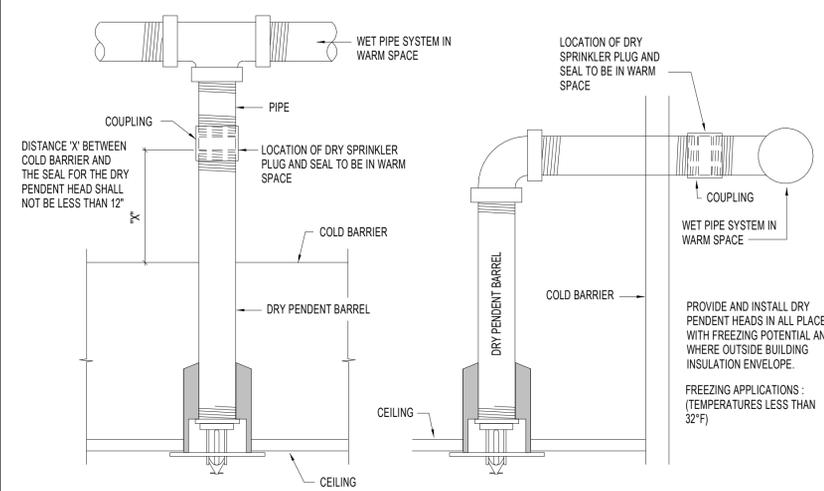


FIXTURE SCHEDULE

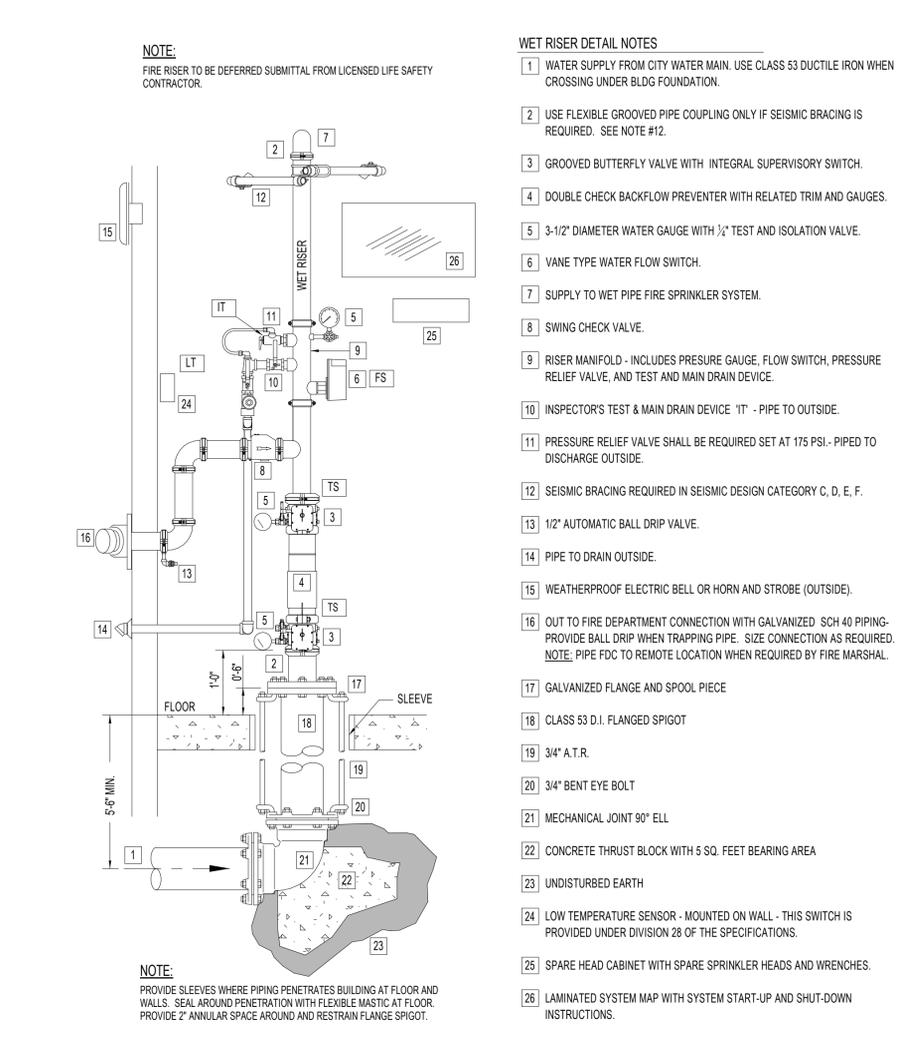
SYM.	DESCRIPTION	HOT	COLD	WASTE	VENT
AC-1	DENTAL AIR COMPRESSOR - FURNISHED AND INSTALLED BY DENTAL EQUIPMENT SPECIALIST. PLUMBING CONTRACTOR TO ROUGH-IN 1/2" AIR LINE FROM TREATMENT ROOM FIXTURES. PROVIDE SHUT-OFF VALVE AND 2" Dia. VENT THRU ROOF. REFER TO DETAIL CP3.2 FOR TYPICAL INSTALLATION.	--	--	--	--
DC-1	DENTAL CHAIR - PROVIDED AND INSTALLED BY DENTAL EQUIPMENT SPECIALIST. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 1/2" COMPRESSED AIR PIPING, 3/4" VACUUM LINE, 1/2" COLD WATER LINE AND 1-1/2" DRAIN LINE TO (4) DENTAL STATION CHAIRS AS RECOMMENDED BY CHAIR MANUFACTURER. REFER TO DENTAL EQUIPMENT DRAWINGS.	--	1/2"	1-1/2"	1-1/2"
DF-1	B-I-LEVEL DRINKING FOUNTAIN - ELKAY MODEL Z1878WSP AND E2H20 BOTTLE FILLER COMPLETE WITH HANDS FREE FILL VALVE, 1/2" STOP, 1-1/2" P-TRAP, FLEX-GUARD SAFETY BUBBLER VALVE AND VANDAL RESISTANT BOTTOM PLATE. (12060/1)	--	1/2"	1-1/2"	1-1/2"
EYE	EMERGENCY EYE WASH STATION - HAWS MODEL 7610 DECK MOUNTED EYEWASH WITH STAY-OPEN BALL VALVE, THERMOSTATIC MIXING VALVE, WASH HEAD COVER, SWING UP ARM, AND INVERTED DIRECTIONAL LAMINAR FLOW. MOUNT IN DECK AT BACK OF SINK. REFER TO DETAIL NP3.1 FOR TYPICAL INSTALLATION.	1/2"	1/2"	--	--
FD-1	2" FLOOR DRAIN - ZURN Z416S WITH 5" SQUARE, NICKEL-BRONZE STRAINER AND 2" DEEP SEAL P-TRAP. RUN 1/2" COLD WATER LINE TO TRAP PRIMER. REFER TO DETAIL MP3.1 FOR DRAIN INSTALLATION IN WOOD FLOOR AND TO DETAIL FOR TYPICAL TRAP PRIMER INSTALLATION.	--	1/2"	2"	2"
FS-1	2" FLOOR SINK - ZURN Z1900-2 WITH HALF GRATE, WHITE ENAMEL FINISH, DOME STRAINER AND 2" DEEP SEAL P-TRAP.	--	--	2"	2"
HB-1	EXTERIOR HOSE BIBB - ZURN Z1'310 "ECOLOTRON" NON-FREEZE WALL HYDRANT WITH REMOVABLE CHROME TEE HANDLE, VACUUM BREAKER AND HOSE FITTING. LENGTH TO SUIT WALL THICKNESS. DELIVER REMOVABLE KEY TO OWNER.	--	3/4"	--	--
ICE	ICE MAKER CONNECTION BOX - GUY GRAY MODEL BIM875 RECESSED WALL MOUNTED UTILITY BOX WITH 1/2" COLD WATER SUPPLY COMPLETE WITH SHUT-OFF VALVE. MOUNTING BOX AT 4 INCHES ABOVE FLOOR.	--	1/2"	--	--
JS-1	FLOOR MOUNTED SERVICE SINK - KOHLER K-6710 "WHITBY" WITH K-8940 WIRE RIM GUARD, K-9142 PERFORATED STRAINER AND 2" DEEP SEAL P-TRAP. MOUNT T&S B-0674-BSTP FAUCET ON WALL COMPLETE WITH VACUUM BREAKER, AND PAIL HOOK. PROVIDE 5'-0" RUBBER HOSE AND WALL CLIP.	1/2"	1/2"	2"	2"
L-1	ADA WALL MOUNTED LAVATORY - KOHLER K-2032 "GREENWICH" WITH K-7715 GRID STRAINER, K-45100-4 "ALTO" FAUCET, WALL CARRIER, 1-1/2" P-TRAP AND 1/2" STOPS. PROVIDE INSULATING JACKET ON WASTE AND HOT WATER LINE.	1/2"	1/2"	1-1/2"	1-1/2"
RP-1	DOMESTIC RECIRC. PUMP - B&G SERIES LR-20B "LITTLE RED" WITH 4 GPM FLOW AT 8' HEAD AND 3/4" LINE CONNECTIONS. MOUNT NEAR WATER HEATER. REFER TO DETAIL DP3.1 FOR TYPICAL PIPE CONNECTIONS.	3/4"	--	--	--
S-1	SINGLE COMPARTMENT SINK - ELKAY PSR-1517-2 STAINLESS STEEL SINK WITH 4" O.C. HOLES, LK-99 STRAINER, AMERICAN STANDARD 6403.170 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, 1/2" STOPS AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"
S-2	LAB / PHARMACY SINK - ELKAY MODEL PLAUH21510 STAINLESS STEEL UNDERMOUNT SINK WITH ELKAY LK5000N814 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
S-3	DENTAL SUITE SINK - KOHLER K-2032 "GREENWICH" WITH K-7715 GRID STRAINER, K-15992-R LEVER HANDLE FAUCET, WALL CARRIER, 1-1/2" P-TRAP AND 1/2" STOPS. PROVIDE INSULATING JACKET ON WASTE AND HOT WATER LINE.	1/2"	1/2"	1-1/2"	1-1/2"
S-4	MED ROOM SINK - ELKAY MODEL PLAUH21510 STAINLESS STEEL UNDERMOUNT SINK WITH ELKAY LK5000N814 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
S-5	STERILIZATION SINK - ELKAY DLR25210PD STAINLESS STEEL SINK WITH 8" O.C. HOLES, LK-99 STRAINER, AMERICAN STANDARD 6403.170 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, 1/2" STOPS AND 1-1/2" ZURN ZA-1188 SOLID INTERCEPTOR TRAP. TRAP TO BE TOP ACCESS. MAINTAIN CLEARANCE AS RECOMMENDED BY MANUFACTURER.	1/2"	1/2"	1-1/2"	1-1/2"
S-6	STERILIZATION SINK - ELKAY DLR25210PD STAINLESS STEEL SINK WITH 8" O.C. HOLES, LK-99 STRAINER, AMERICAN STANDARD 6403.170 GOOSENECK FAUCET WITH WRIST BLADE HANDLES, 1/2" STOPS AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"
S-7	BREAK ROOM SINK - ELKAY MODEL PLAUH21510 STAINLESS STEEL UNDERMOUNT SINK WITH ELKAY LK5000N814 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES, LK-99 HEAVY DUTY STRAINER, AND 1/2" STOPS.	1/2"	1/2"	1-1/2"	1-1/2"
S-8	DOUBLE COMPARTMENT SINK - ELKAY LR-3319 STAINLESS STEEL SINK WITH (2) LK-99 STRAINERS, MODEN 87932 HI-ARC PULL-DOWN FAUCET, 1/2" STOPS AND 1-1/2" P-TRAP.	1/2"	1/2"	1-1/2"	1-1/2"
SH-1	ADA SHOWER - GELCOAT ADA BARRIER-FREE DESIGN SHOWN UNIT WITH ADA SEAT, GRAB BARS AND HAND HELD SHOWER ASSEMBLY WITH 30" SLIDE BAR AND 60" HOSE. MIXING VALVE SHALL BE THERMOSTATIC, TEMPERATURE/PRESSURE BALANCING VALVE, TEMPERATURE SET AT 110 Deg. PROVIDE CURTAIN ROD AND SHOWER CURTAIN, SOAP DISH, REMOVABLE THRESHOLD AND DRAIN FOR COMPLETE SHOWER.	1/2"	1/2"	2"	2"
TP-1	TRAP PRIMER - ZURN Z-1022XL IN-LINE PRIMER. MOUNT RECESSED IN WALL BELOW FLOOR TO CORRESPONDING FLOOR DRAIN. REFER TO DETAIL JP3.1 FOR TYPICAL INSTALLATION.	--	1/2"	--	--
VP-1	DENTAL VACUUM PUMP - PROVIDED AND INSTALLED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT 2" VACUUM PIPING IN UTILITY ROOM AND 3/4" TO (4) DENTAL STATION CHAIRS. RUN DRAIN LINE TO FLOOR SINK. SEE DETAIL B/P3.2. PROVIDE 3" VENT THRU ROOF WITH GOOSENECK.	--	--	TO FLOOR SINK	--
WC-1	ADA WATER CLOSET - KOHLER K-3999 "HIGHLINE" WITH ELONGATED BOWL, K-4670C OPEN FRONT SEAT, BOLT CAPS AND TRIP LEVER FLUSH	--	1/2"	4"	2"
WH-1	ELECTRIC WATER HEATER - A.O. SMITH MODEL ECL-50 WITH 50 GALLON CAPACITY, (2) 4.5 KW NON-SIMULTANEOUS ELEMENTS (208/60/1), 3/4" SUPPLIES AND T&P RELIEF VALVE, THERMAL EXPANSION TANK, HEAT TRAP NIPPLES AND SYMONS 7-200 MIXING VALVE. MOUNT ON 2" THICK RIGID INSULATION BOARD.	3/4"	3/4"	--	--



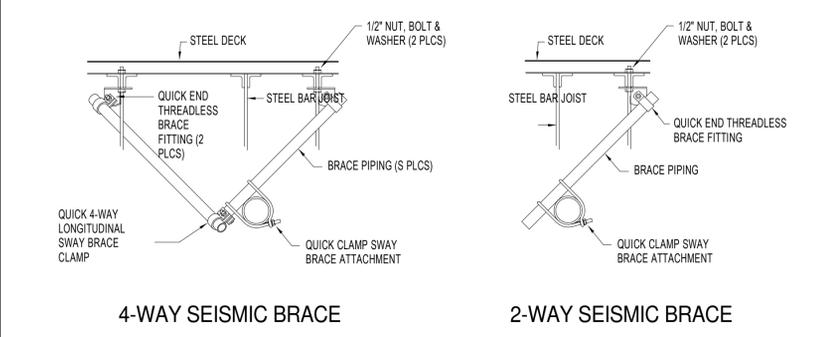
A SPRINKLER HEAD COORDINATION DETAILS NO SCALE



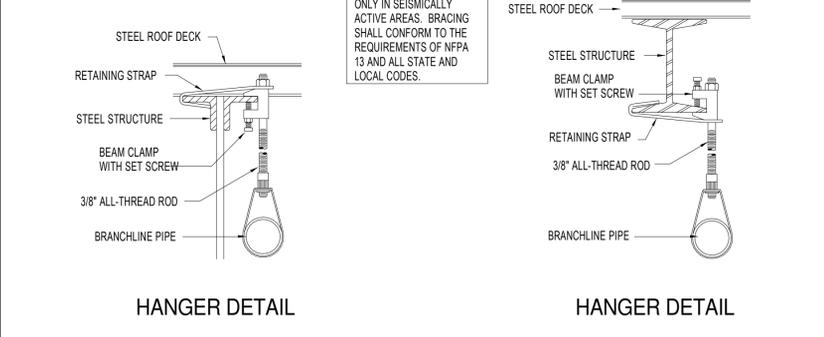
B DRY PENDANT HEAD INSTALLATION NO SCALE



C VERTICAL FIRE RISER AND ALARM VALVE DETAIL NO SCALE



D SEISMIC BRACING AND SUPPORT DETAILS NO SCALE



D SEISMIC BRACING AND SUPPORT DETAILS NO SCALE

DOMESTIC WATER CALCULATIONS

FIXTURE	QUANTITY	UNITS/FIX	TOTAL UNITS
WATER CLOSET	8	2.5	20
LAVATORIES/HAND SINKS	8	1.0	8
SINKS	20	2.0	40
SERVICE SINK	3	4	12
SHOWER HEADS	1	2	2
CUSPIDOR	4	1.0	4
TOTAL FIXTURE UNITS (20 FOR FUTURE ADDITION)			106 UNITS
PROBABLE GPM FROM CURVE			44 GPM
WATER METER SIZE			2"
PRESSURE LOSS AT METER (M)			9 PSI
DISTANCE TO FARTHEST FIXTURE (D)			130 FT.
EQUIVALENT PIPE LENGTH (L x 1.5) (EL)			195 FT.
PRESSURE SETTING AT PRESSURE REGULATOR (P)			50
PRESSURE REQUIRED AT FIXTURE (F)			15
HEIGHT OF HIGHEST FIXTURE OR PIPING (H)			12'
SYSTEM PRESSURE LOSS / 100 FT. (FL)			12.7
$(P) - (.43H) - (F) - (M) \times 100 / (EL) = (FL)$			
$50 - 5.16 - 15 - 9 \times 100 = 2084 / 195 = 10.6$			
MAIN DOMESTIC WATER LINE REQUIRED USING 2" LINE FOR FUTURE ADDITION.			2"

GAS LOAD CALCULATIONS

WC-1	120,000 BTU
WC-2	120,000 BTU
WC-3	120,000 BTU
WC-4	130,000 BTU
WC-5	100,000 BTU
WC-6	120,000 BTU
WC-7	120,000 BTU
TOTAL GAS LOAD	830,000 BTU
TOTAL DESIGN LOAD	1,000,000 BTU
DEVELOPED LENGTH	200 FEET
DISCHARGE PRESSURE	2.0 PSI
MAIN GAS PIPE SIZE	1"

DATE: 12/2/2022

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MLJ DLH
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P3.3