

ABBREVIATIONS			
AAV	AUTOMATIC AIR VENT	HWR	HOT WATER RETURN
ABV	ABOVE	HZ	HERTZ (CYCLES PER SECOND)
AD	ACCESS DOOR	ID	INSIDE DIAMETER
ADJ	ADJUSTABLE	IN	INCH
AFF	ABOVE FINISHED FLOOR	IW	INDIRECT WASTE
AFG	ABOVE FINISHED GRADE	KW	KILOWATT
ALUM	ALUMINUM	LB	POUND, POUNDS
AP	ACCESS PANEL	LD	LINEAR DIFFUSER
APD	AIR PRESSURE DROP	LWT	LEAVING WATER TEMPERATURE
ATC	AUTOMATIC TEMPERATURE CONTROL	MA	MEDICAL AIR
AV	AIR VENT	MAX	MAXIMUM
BAS	BUILDING AUTOMATION SYSTEM	MBH	THOUSAND BTU PER HOUR
BDD	BACK DRAFT DAMPER	MC	MECHANICAL CONTRACTOR
BHP	BRAKE HORSEPOWER	MD	MOTORIZED DAMPER
BLDG	BUILDING	MFR	MANUFACTURER
BOT	BOTTOM	MIN	MINIMUM
BFP	BACKFLOW PREVENTER	MOD	MOTOR OPERATED DAMPER
BTUH	BRITISH THERMAL UNIT PER HOUR	MS	MOTOR STARTER
C	CELCIUS, DEGREE CELCIUS	MVD	MANUAL VOLUME DAMPER
CA	COMPRESSED AIR	M/S	METERS PER SECOND
CD	CONDENSATE DRAIN	N	NORTH
CENT	CENTRIFUGAL	NA	NOT APPLICABLE/NOT AVAILABLE
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
		NO	NORMALLY OPEN
		NTS	NOT TO SCALE
CLG	CEILING	OD	OUTSIDE DIAMETER
CO	CLEAN OUT, CARBON MONOXIDE	OPER	OPERATING
CO2	CARBON DIOXIDE	PC	CONCRETE
CONC	CONCRETE	PCD	PNEUMATIC CONTROL DAMPER
COP	COEFFICIENT OF PERFORMANCE	PCV	PNEUMATIC CONTROL VALVE
CU	CONDENSING UNIT	PD	PRESSURE DROP
CW	CONSTANT VOLUME AIR VALVE	PLBG	PLUMBING
CV	CONDENSOR WATER	PLS	PRESSURE REDUCING STATION
DB	DRY BULB	PRV	PRESSURE REDUCING VALVE
DCW	DOMESTIC COLD WATER	PSI	POUNDS PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	PSIG	POUNDS PER SQUARE INCH GAUGE
DEG	DEGREE	R	RELAY
DF	DRINKING FOUNTAIN	REQ'D	REQUIRED
DISC	DISCONNECT	RM	ROOM
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DWGS	DRAWINGS	RTU	ROOFTOP UNIT
DWV	DRAIN, WASTE AND VENT PIPING	RWL	RAIN WATER LEADER
EA	EXHAUST AIR	SAN	SANITARY
EAT	ENTERING AIR TEMPERATURE	S.F.	SQUARE FEET
EC	ELECTRICAL CONTRACTOR	SRV	SAFETY RELIEF VALVE
EFF	EFFICIENCY	ST	STORM
ELEC	ELECTRICAL	T	THERMOSTAT
ELEV	ELEVATION	TEMP	TEMPERATURE
ENT	ENTERING	TG	TRANSFER GRILLE
EQ	EQUAL	TH	THERMOMETER
ETR	EXISTING TO REMAIN	TMV	THERMOSTATIC MIXING VALVE
EWC	ELECTRIC WATER COOLER	TP	TRAP PRIMER
EWT	ENTERING WATER TEMPERATURE	TS	TEMPERATURE SENSOR
EXH	EXHAUST	TYP	TYPICAL
F	FAHRENHEIT, DEGREE FAHRENHEIT	UNO	UNLESS OTHERWISE NOTED
FPM	FEET PER MINUTE	V	VENT, VOLT
FPS	FEET PER SECOND	VAC	VACUUM
FPU	FAN POWERED UNIT	VERT	VERTICAL
FT	FEET	VFD	VARIABLE FREQUENCY DRIVE
GA	GUAGE	VTR	VENT THROUGH ROOF
GAL	GALLON	W	WATTS
GALV	GALVANIZED	W/	WITH
GC	GENERAL CONTRACTOR	W/O	WITHOUT
GPH	GALLONS PER HOUR	WB	WET BULB
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
HB	HOSE BIBB	WHA	WATER HAMMER ARRESTER
HC	HANDICAPPED	WPD	WATER PRESSURE DROP
HOA	HAND-OFF-AUTOMATIC	WS	WALL SWITCH
HP	HORSEPOWER	WV	WASTE AND VENT
HR	HOUR	#	NUMBER
HW	HOT WATER		

PLUMBING SYMBOLS LEGEND

PLUMBING PIPING	
	HW & CW DROP
	SAN DROP
	VENT STACK AND PIPE
	HW & CW RISE
	SAN RISE
	TEE DOWN
	SINGLE LINE REDUCER
	PIPE BREAK LINE
PLUMBING DEVICES/VALVES	
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE
	AIR VENT
	ANNU BAR
	AUTO FLOW VALVE
	AUTOMATIC AIR VENT
	BALANCING VALVE/FLOWMETER
	BALL VALVE
	BREAKLINE
	BUTTER FLY VALVE
	CHECK VALVE
	CIRCUIT SETTER
	CLEANOUT
	PIPE CAP
	STORM OVERFLOW
	DOUBLE BACKFLOW PREVENTOR
	GAS COCK
	GATE VALVE
	HOSE BIB
	MIXING VALVE
	PRESSURE GAGE
	PRESSURE REDUCING VALVE
	PUMP
	RELIEF/SAFETY VALVE
	SAN TRAP
	STRAINER
	THERMOMETER
	WATER HAMMER ARRESTOR
	FLEXIBLE CONNECTOR
	WATER METER
	FLANGE
	FLOW ARROW
	ISOLATION VALVE
	ROOF DRAINS
	EXTERIOR CLEANOUT
	FLOOR CLEANOUT
	FLOOR SINK
	W/HALF GRATE
	FLOOR DRAIN
	FLOOR DRAIN (SQ.)
	WASHER BOX
	ICE MAKER BOX

GENERAL NOTES

- ALL INSTALLATIONS, MATERIALS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE STATUTES, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION. SEE CODE IDENTIFICATION SECTION THIS SHEET.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS AND INVERTS PRIOR TO LAYING AND CONNECTING ALL SANITARY WASTE PIPING. COORDINATE DISCREPANCIES IN MEASUREMENTS AND UNDERGROUND PIPING INVERTS WITH STRUCTURAL FOOTING ELEVATIONS, CIVIL INVERT CONNECTIONS, AND ARCHITECTURAL LAYOUT. IF FOOTINGS ARE IN CONFLICT AND WHERE A PIPING ROLL DOWN IS NOT POSSIBLE, COORDINATE WITH STRUCTURAL ENGINEER FOR DROPS IN FOOTINGS IN SPECIFIC LOCATIONS.
- CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.
- THIS FACILITY SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
- THE CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL IF THIS CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED, HE MUST, AT THE TIME OF BIDDING, SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER, THE EQUIPMENT HE WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM HIS PROPOSAL.
- THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
- CONTRACTOR SHALL GIVE 72 HOUR NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM THE BUILDING ADMINISTRATOR (OR HIS REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUTDOWN POINTS WITH THE OWNER REPRESENTATIVE (IE: ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
- COORDINATE WITH GENERAL CONTRACTOR TO PATCH ALL EXISTING WALLS, FLOORS, CEILING, ETC., AS REQUIRED BY NEW WORK. SEE SPECIFICATIONS.
- WHERE EXISTING SURFACES ARE DISRUPTED DUE TO THE REMOVAL OF EXISTING EQUIPMENT OR PIPING, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DISRUPTED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- PLUMBING CONTRACTOR SHALL COMPLY WITH THE LATEST ADOPTED VERSION OF THE BUILDING CODE REGARDING STUD OPENINGS FOR ALL PIPE ROUTING. IN NO CASE SHALL THE MAX OPENING FALL WITHIN 5/8" FROM EITHER SIDE OF STUD WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. IE: 3-1/2" NON-BEARING STUD - 2-1/2" MAX OPENING, 5-1/2" NON-BEARING STUD - 4-1/4" MAX OPENING, 5-1/2" BEARING STUD 4-1/4" OPENING.
- 3" PIPE IS NOT PERMITTED TO PENETRATE 3-1/2" STUDS WITHOUT ADDITIONAL REINFORCEMENT AND APPROVAL FROM THE STRUCTURAL ENGINEER. 5-1/2" STUDS ARE APPROVED FOR 2" AND 3" PIPE, UP TO 4-1/4" DIA. MAX OPENING WITHOUT ADDITIONAL REINFORCEMENT.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURE MOUNTING HEIGHTS, AND DIMENSIONS.
- COORDINATE ALL CEILING PIPING AND ELEVATIONS IN SHOP DRAWINGS WITH HVAC, FIRE PROTECTION AND ELECTRICAL TRADES TO ENSURE CLEARANCES AND PENETRATIONS, PRIOR TO INSTALLATION.
- ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE PERMITTED PLUMBING PLANS. ANY DEVIATION IN DESIGN AND ROUTING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF ANY WORK. THIS INCLUDES ANY REDESIGNS, VALUE ENGINEERING ITEMS AND ROUTING METHODS NEGOTIATED IN THE BIDDING PROCESS WITH THE GC IN ORDER TO OBTAIN THE LOWEST BID.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
- PIPING WHICH IS TO REMAIN IN SERVICE SHALL NOT BE DISTURBED. EXISTING PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW PIPING OF THE SAME SIZE AND MATERIAL.
- WHERE EXISTING PIPING IS DESIGNATED TO BE REMOVED AND CAPPED, ALL PIPING SERVING THE DESIGNATED FIXTURE SHALL BE REMOVED FROM WITHIN WALLS TO THE POINT DESIGNATED ON THE DRAWINGS. PIPING SHALL BE CAPPED BY APPROVED CAPPING METHODS UTILIZING PIPE CAPS INTENDED FOR SUCH USE. CAPS SHALL BE AIRTIGHT AND WATERTIGHT.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- DIELECTRIC UNIONS SHALL BE USED TO CONNECT DISSIMILAR METALS AND SHALL HAVE METAL CONNECTIONS ON EACH END THREADED TO MATCH THE ADJACENT PIPING. SEPARATE METAL COMPONENTS WITH A NYLON INSULATOR TO PREVENT CURRENT FLOW BETWEEN DISSIMILAR METALS.
- ALL DRAINAGE PIPING AND SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- PROVIDE PIPE MARKERS FOR ALL PIPING ABOVE THE CEILING SPACES TO IDENTIFY PLUMBING PIPING & EQUIPMENT.
- LABEL ALL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES. LABEL AT CEILING TILE WITH VALVE # AND TYPE OF WATER. (I.E., BLUE= COLD WATER, LETTERING CW VLV1-001).
- DO NOT PENETRATE FOUNDATIONS WITH PIPING. COORDINATE WITH GENERAL CONTRACTOR TO DROP FOUNDATIONS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- PROPERLY SLEEVE ALL PIPING ROUTED THROUGH WALLS AND FLOOR SLABS, AND PROTECT TO PREVENT CORROSION. SLEEVES SHALL BE RATED ASSEMBLIES WHERE THE WALL IS A RATED WALL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WATERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS. PROVIDE FIRE RATED PANELS/BOXES FOR ALL PLUMBING DEVICES LOCATED IN RATED WALLS. FIRE CALK AND SLEEVE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS. REFER TO ARCHITECTURAL SHEET FOR DETAILS AND UL ASSEMBLY NUMBERS.
- EXISTING BUILDING SEWERS THAT ARE USED WITH NEW BUILDING SANITARY SEWERS SHALL BE EXAMINED, TESTED AND CLEANED TO CONFORM IN ALL RESPECTS TO ALL THE REQUIREMENTS OF PLUMBING AUTHORITY HAVING JURISDICTION AND APPLICABLE PLUMBING CODES.
- ALL SANITARY PIPING SHALL HAVE AN 1/8" PER FOOT SLOPE FOR PIPING 3"-6", 1/4" PER FOOT FOR PIPING 2 1/2" AND LESS.
- CHANGES IN THE DIRECTION OF SANITARY PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (IE: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE PLUMBING CODE. CLEANOUTS SHALL BE SIZED TO MATCH THE PIPING BEING SERVED. CLEANOUTS SHALL BE SPACED AT 75'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTIONS >45".
- PROVIDE TRAP PRIMER CONNECTIONS ON ALL FLOOR DRAINS.
- ROUGH IN ALL FLUSH VALVE WATER CLOSETS SO THAT THE FLUSH VALVE HANDLE IS TO THE WIDE SIDE OF THE ROOM, AS PER THE LATEST ADOPTED VERSION OF THE PLUMBING CODE.
- VENT PIPING SHOWN ON FLOOR PLANS IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
- ALL VENTS THROUGH ROOF SHALL BE MIN. 10'-0" FROM ANY AIR INTAKES.
- WET VENTED TOILET ROOM SYSTEMS THAT INCLUDE EXCESSIVE OFFSETS, SWEEPS, ELBOWS AND COMB. WYE AND EIGHTH BENDS THAT ENCOURAGE FUTURE STOPPAGES SHALL NOT BE PERMITTED. (EXCESSIVE TO BE DETERMINED BY THE ENGINEER.)
- DISINFECT DOMESTIC WATER PIPING BY EITHER OF TWO WAYS: FILL SYSTEM WITH 50ppm CHLORINE SOLUTION AND STAND FOR 24 HOURS OR 200ppm CHLORINE SOLUTION AND STAND FOR 3 HOURS.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL, SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.
- DOMESTIC WATER PIPING IS NOT PERMITTED BELOW THE BUILDING SLAB WITH THE EXCEPTION OF THE FEW FEET REQUIRED TO ENTER THE BUILDING CHASE WALL.
- PROVIDE THERMAL INSULATION FOR HOT WATER AND HOT WATER RETURN PIPING IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION AND PER SPECIFICATIONS.
- LOCATE ALL VALVES IN ACCESSIBLE AREAS AS DEFINED BY THE LATEST ADOPTED ADDITION OF THE PLUMBING CODE. CONTRACTOR SHALL PROVIDE ACCESS DOORS WHERE NECESSARY. (12"x12") MIN.
- IT IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO PROVIDE A BACKFLOW PREVENTION DEVICE ON THE MAIN DOMESTIC WATER SERVICE PROVIDED TO THE BUILDING/SPACE UNDER CONSTRUCTION AS PER THE LATEST ADOPTED VERSION OF THE PLUMBING CODE. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTION DEVICE IF PRESSURES EXCEED 80 PSI.
- INSTALL PRESSURE REDUCING VALVE CONFORMING TO ASSE 1003 WITH STRAINER ON ANY PORTION OF BUILDING PIPING THAT EXCEEDS 80 PSI.
- PROVIDE ALL LAVATORIES AND HAND SINKS WITH HW CONNECTED TO THE LEFT HAND SIDE OF THE FIXTURE FITTING WITH 105°F TEMPERED WATER FROM EITHER THE WATER HEATER THERMOSTATIC MIXING VALVE OR POINT OF USE THERMOSTATIC MIXING VALVE IN THAT CONFORMS TO ASSE 1070.
- ANGLE STOPS SHALL BE FURNISHED AND INSTALLED ON ALL HOT AND COLD WATER LINES AT EQUIPMENT. PROVIDE ALL REQUIRED SHUT-OFF VALVES, CHROME FINISH.
- PROVIDE WATER HAMMER ARRESTORS IN ALL CW AND HW SUPPLY PIPING AS REQUIRED AND/OR AS SHOWN ON WATER RISERS. INSTALL IN ACCORDANCE WITH PDI-WH201 STANDARDS. SEE SCHEDULE ON THIS SHEET FOR SIZES. AIR CHAMBERS ARE NOT ACCEPTABLE SUBSTITUTIONS.
- AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- PROVIDE THERMOSTATIC MIXING VALVES AT WATER HEATERS AS STATED IN SCHEDULES.

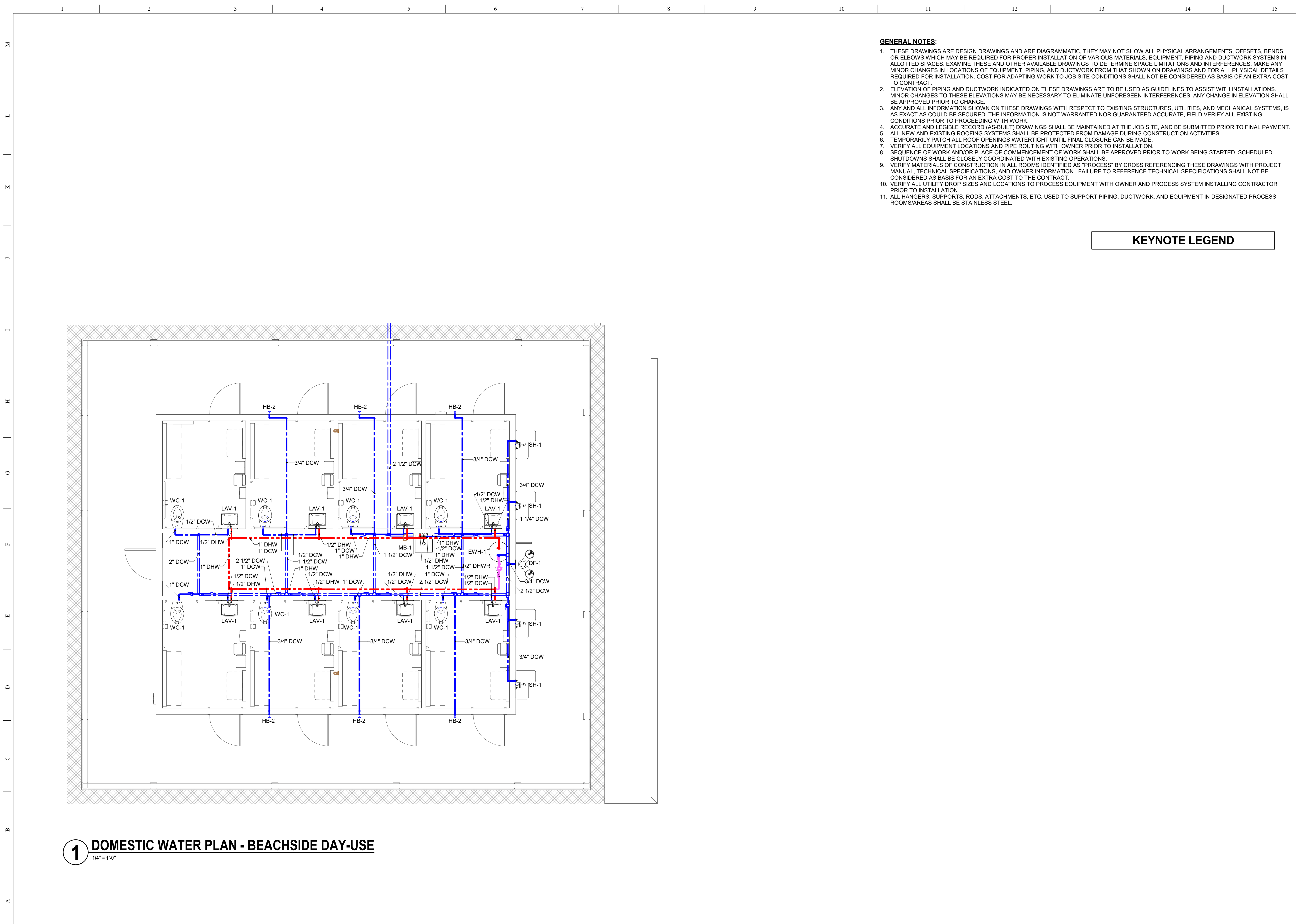
CODE IDENTIFICATION	
BUILDING CODE:	2023 FLORIDA BUILDING CODE
PLUMBING CODE:	2023 FLORIDA PLUMBING CODE
ENERGY CODE:	2023 FLORIDA ENERGY CONSERVATION CODE
NOTE: ALL WORK SHALL COMPLY WITH THE CODE IDENTIFIED ABOVE ALONG WITH ALL OTHER GOVERNING CODES AND ORDINANCES APPLICABLE TO THE SCOPE OF THIS PROJECT.	

PLUMBING SHEET INDEX	
SHEET NUMBER	SHEET TITLE
PLUMBING	
P001	PLUMBING TITLE SHEET
P101	DOMESTIC WATER FIRST FLOOR PLAN
P102	SANITARY FIRST FLOOR PLAN
P401	SANITARY VENT AND WATER ISOMETRIC
P501	PLUMBING SCHEDULES & DETAILS

DESIGNER:	DGC	ISSUE DATE:	04/10/2024	REVISION:		DATE:	
DRAWN BY:	DGC	COMP FILE NO:	F13622.2	REVISION:		DATE:	
APPROVED BY:	JAD	START PROJECT TIME:	6:14:37C	REVISION:		DATE:	
CONSULTANT:				REVISION:		DATE:	
PROFESSIONAL REGISTRATION NO.	JEFFREY DEAL, PE			REVISION:		DATE:	
PROJECT TITLE:	WILLIAM J. "RISH" PARK PLUMBING TITLE SHEET			REVISION:		DATE:	
PRODUCT TYPE:	BEACH SIDE DAY USE RESTROOM			REVISION:		DATE:	
SHEET NO.:	P001			REVISION:		DATE:	

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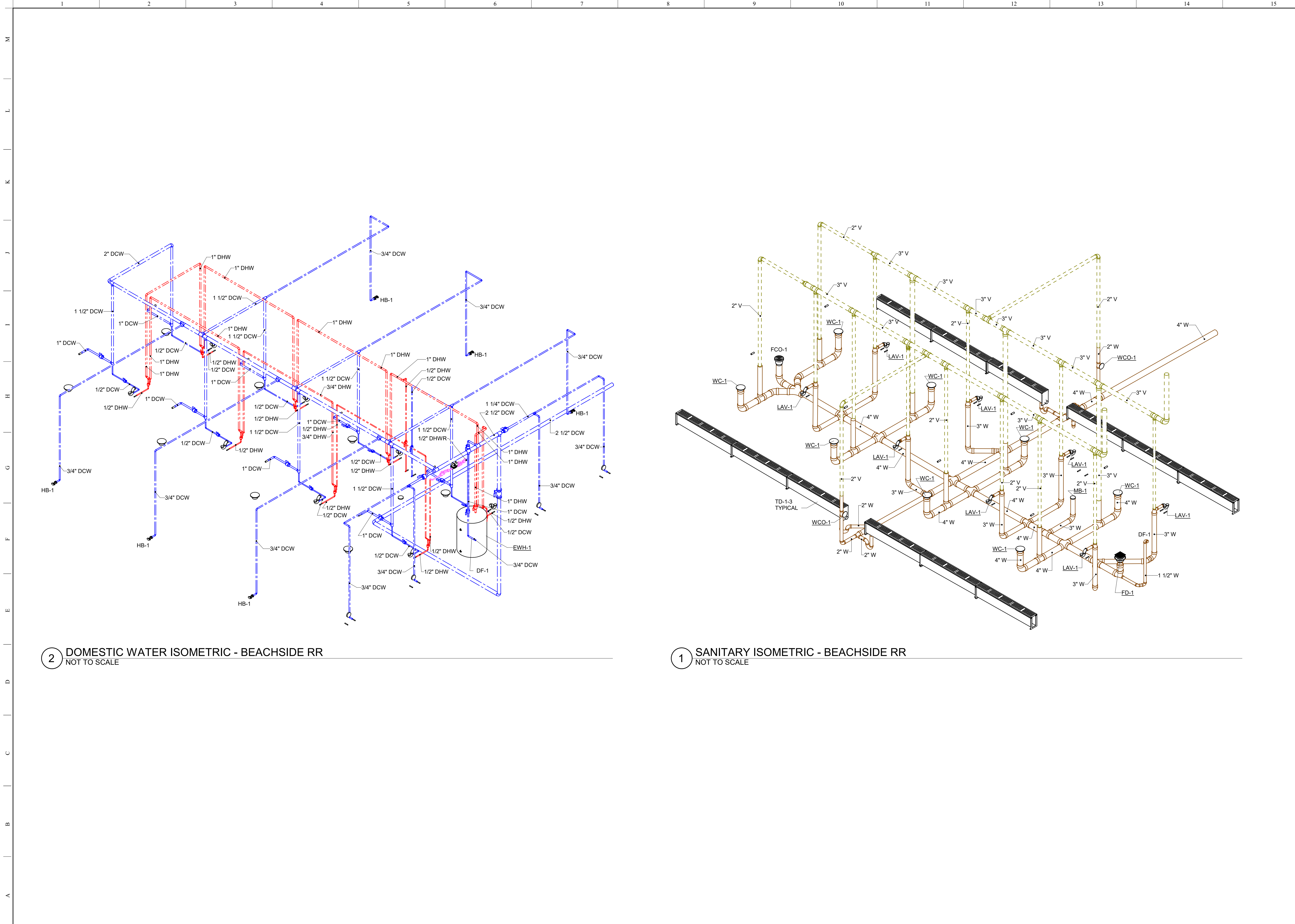
GENERAL NOTES:

1. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
2. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
3. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
4. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
5. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
6. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
7. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
8. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
9. VERIFY MATERIALS OF CONSTRUCTION IN ALL ROOMS IDENTIFIED AS "PROCESS" BY CROSS REFERENCING THESE DRAWINGS WITH PROJECT MANUAL, TECHNICAL SPECIFICATIONS, AND OWNER INFORMATION. FAILURE TO REFERENCE TECHNICAL SPECIFICATIONS SHALL NOT BE CONSIDERED AS BASIS FOR AN EXTRA COST TO THE CONTRACT.
10. VERIFY ALL UTILITY DROP SIZES AND LOCATIONS TO PROCESS EQUIPMENT WITH OWNER AND PROCESS SYSTEM INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
11. ALL HANGERS, SUPPORTS, RODS, ATTACHMENTS, ETC. USED TO SUPPORT PIPING, DUCTWORK, AND EQUIPMENT IN DESIGNATED PROCESS ROOMS/AREAS SHALL BE STAINLESS STEEL.

KEYNOTE LEGEND

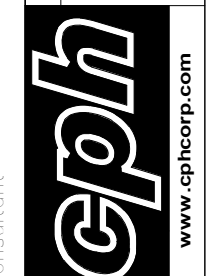
1 DOMESTIC WATER PLAN - BEACHSIDE DAY-USE
1/4" = 1'-0"

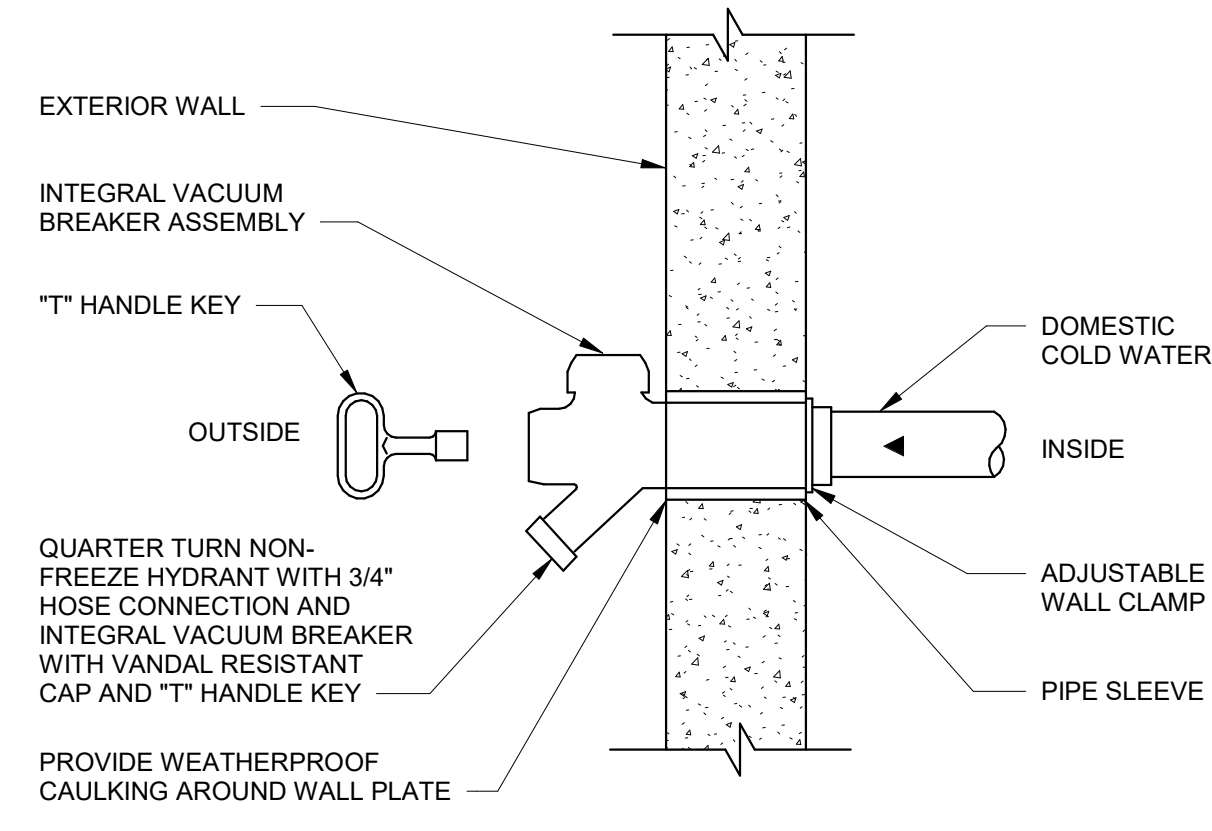
DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE	DGC	DESIGNER	PROFESSIONAL REGISTRATION NO.	SHEET TITLE	SHEET NO.
						04/10/2024	DGC	JAD	JEFFREY DEAL, PE	DOMESTIC WATER FIRST FLOOR PLAN	P101
						COMP FILE No: F13622.2	DGC	JAD	TBD-Mech License	WILLIAM J. "RISH" PARK	
						PART PROJECT No: 61437C	JAD	JAD		BEACH SIDE DAY USE RESTROOM	
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2 DOMESTIC WATER ISOMETRIC - BEACHSIDE RR
NOT TO SCALE

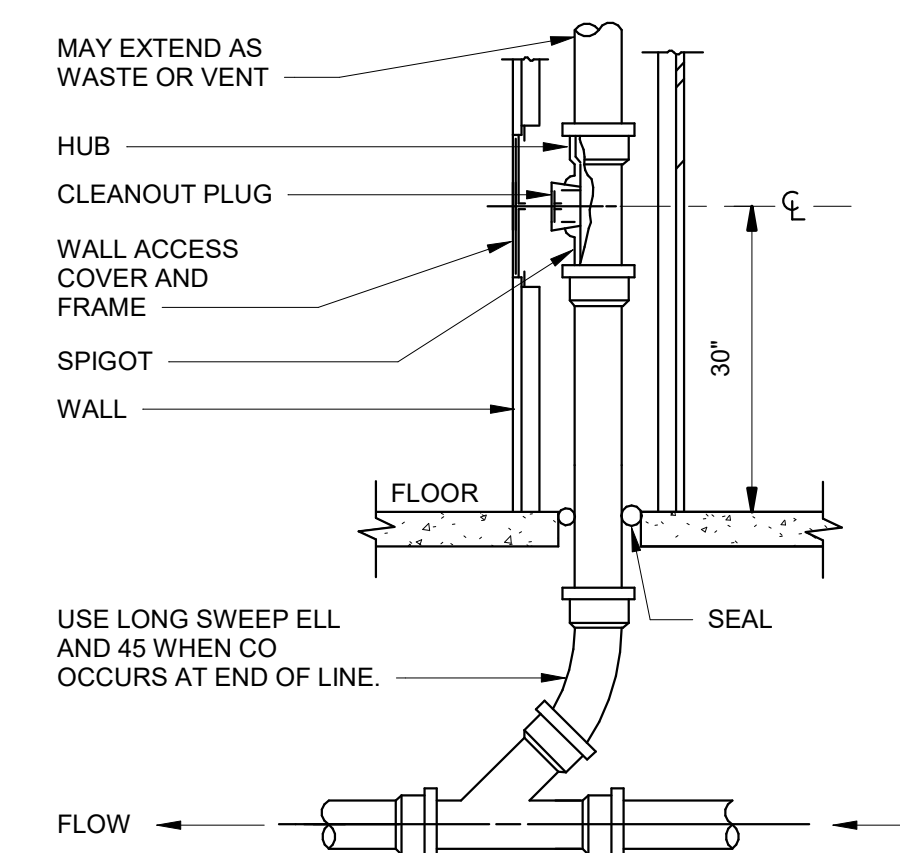
1 SANITARY ISOMETRIC - BEACHSIDE RR
NOT TO SCALE

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
ISSUE DATE: 04/10/2024	DESIGNER: DGC	PROFESSIONAL REGISTRATION NO. JEFFREY DEAL, PE	COMP FILE NO: F13622.2	DRAWN BY: DGC	REGISTRATION NO. TBD-Mech License
			PART PROJECT NO: 61437C	REVIEWED BY: JAD	
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<p>Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3800 Commonwealth Blvd., Tallahassee, FL 32399 (851) 425-2300</p>					
WILLIAM J. "RISH" PARK			SANITARY VENT AND WATER ISOMETRIC		
BEACH SIDE DAY USE RESTROOM			P401		

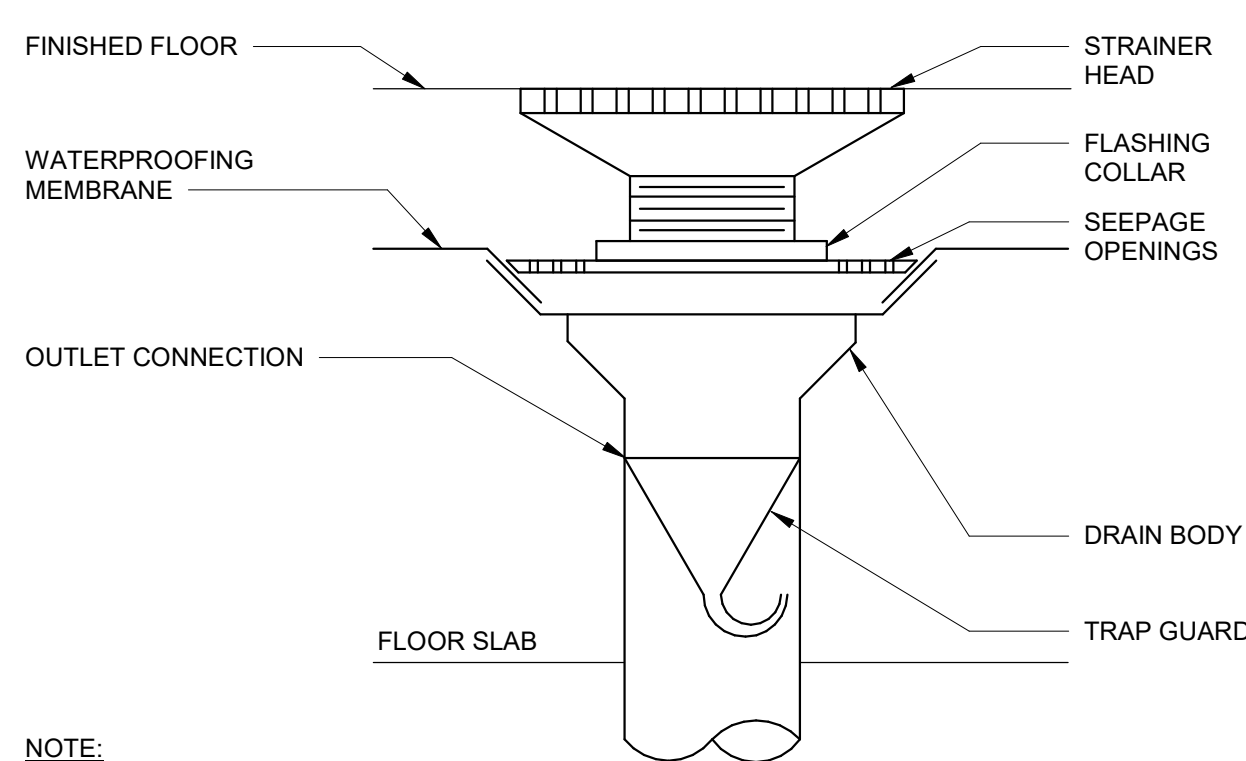


NOTE:
1. PROVIDE INSULATION IN ANY GAPS AROUND THE PENETRATIONS OF EXTERIOR WALLS.

1 HOSE BIB DETAIL
NOT TO SCALE

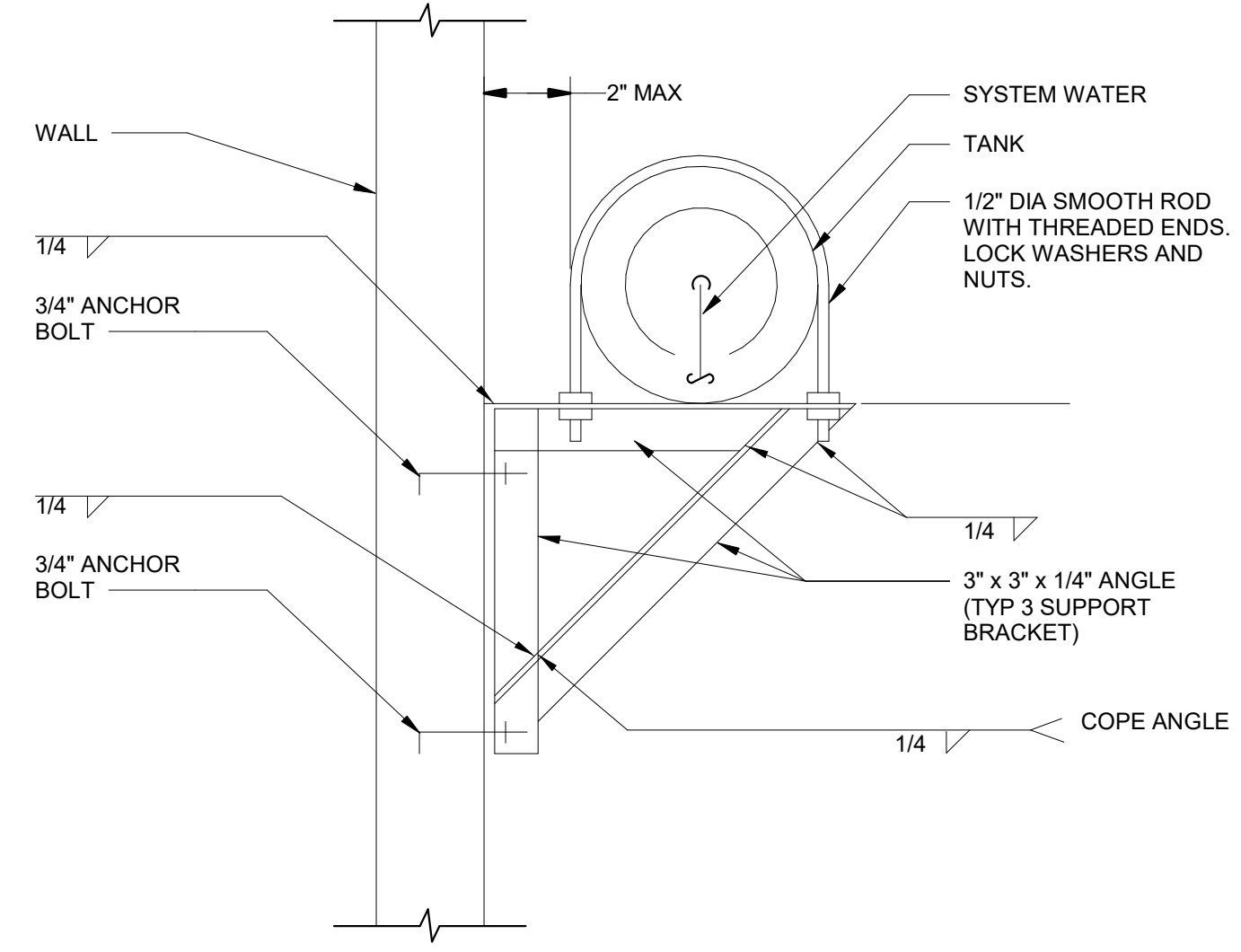


2 WALL CLEANOUT DETAIL
NOT TO SCALE

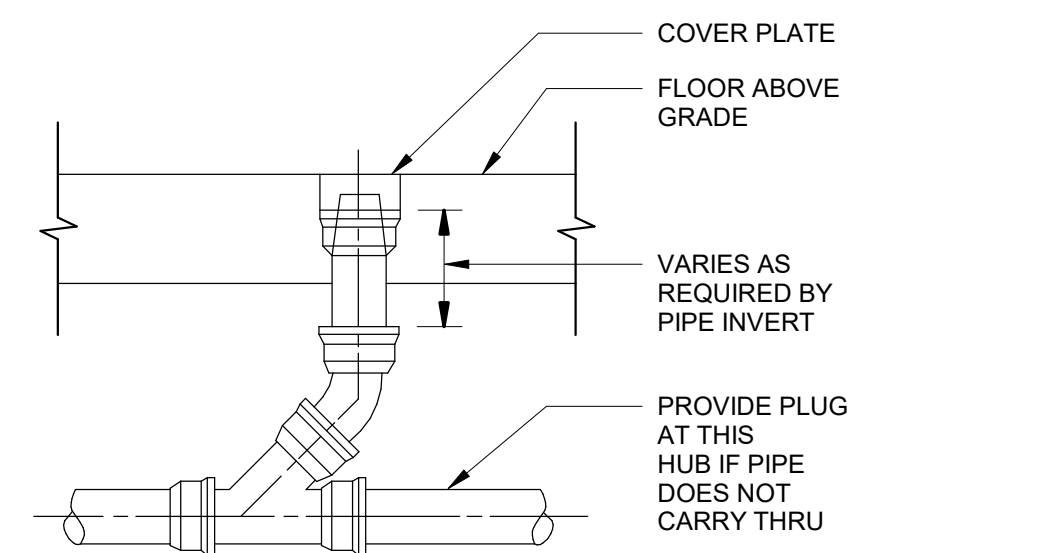


NOTE:
1. IN RAISED FLOOR AREAS, COORDINATE FLOOR DRAIN LOCATIONS WITH FLOOR SYSTEM PEDESTALS.

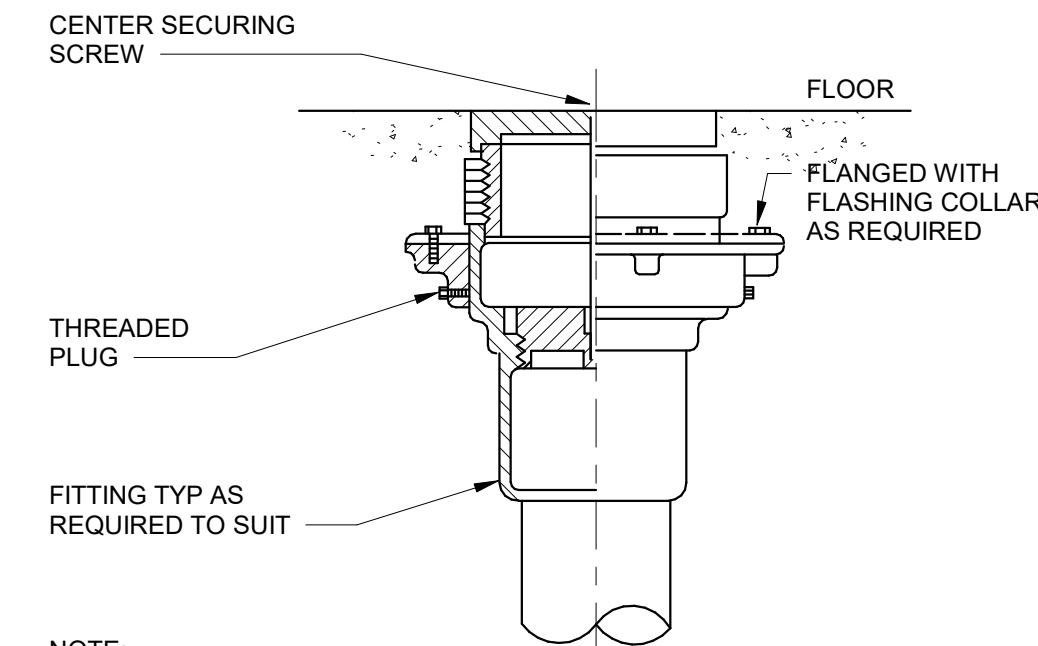
3 FLOOR DRAIN - NO PRIMER
NOT TO SCALE



4 EXPANSION TANK DETAIL - HORIZONTAL
NOT TO SCALE



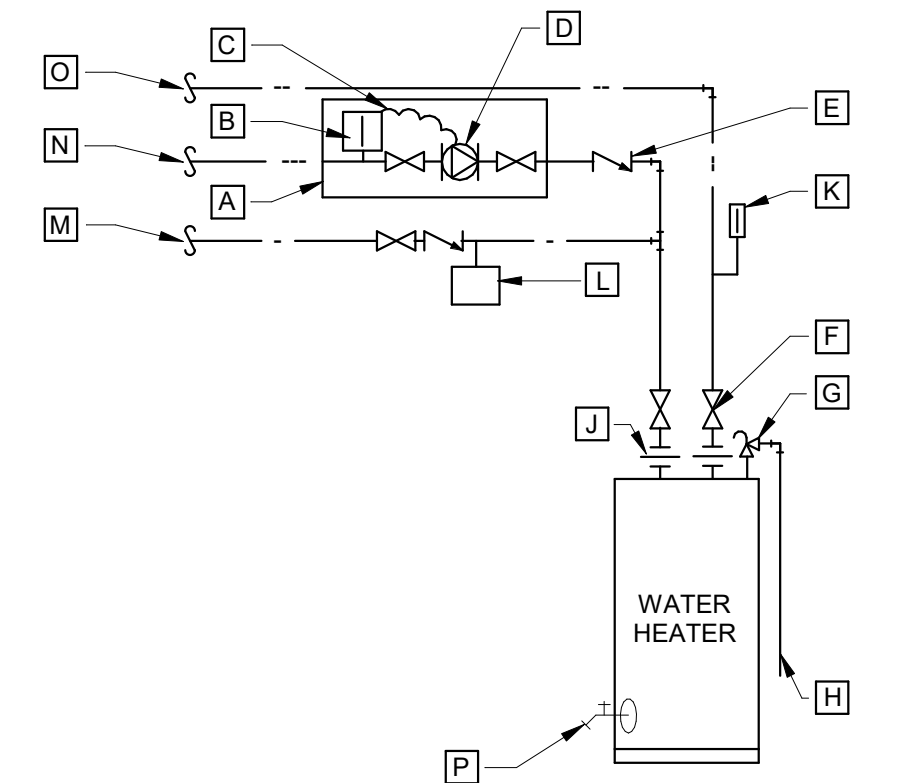
5 FLOOR CLEANOUT DETAIL
NOT TO SCALE



NOTE:
1. IN RAISED FLOOR AREAS, COORDINATE LOCATIONS WITH FLOOR SYSTEM PEDESTALS.

6 FLOOR CLEANOUT DETAIL
NOT TO SCALE

- KEYNOTES:
- A MOUNT CIRCULATING PUMP, AQUASTAT, AND ISOLATION VALVES BELOW CEILING IN ACCESSIBLE LOCATION.
 - B AQUASTAT TO START PUMP AS TEMPERATURE DROPS BELOW 100°F (ADJUSTABLE).
 - C WIRING FROM PUMP TO AQUASTAT.
 - D HOT WATER CIRCULATING PUMP.
 - E CHECK VALVE (TYP)
 - F ISOLATION VALVE (TYP)
 - G 125 PSI TEMPERATURE/PRESSURE RELIEF VALVE.
 - H PIPE FULL SIZE TO FLOOR DRAIN OR MOP SINK.
 - J DIELECTRIC UNION FOR DISSIMILAR METALS, TYPICAL.
 - K THERMOMETER.
 - L THERMAL EXPANSION TANK.
 - M COLD WATER SUPPLY.
 - N HOT WATER RECIRCULATION.
 - O HOT WATER SUPPLY.
 - P DRAIN.



7 WATER HEATER CIRCULATING PUMP PIPING DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	MANUFACTURER	MODEL	DESCRIPTION
WC-1	WATER CLOSET ADA ACCESSIBLE 17" AFF TO LIP	3"	2"	1-1/4"	--	KOHLER	K-96058-0	FLOOR MOUNTED FIXTURE, ELONGATED BOWL, WITH MANUALLY OPERATED 1.28 GPF FLUSH VALVE SLOAN 111, 1 1/2" TOP SPUD, BEMIS 1955SSCT SEAT
WC-2	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER	K-96058-0	FLOOR MOUNTED FIXTURE, ELONGATED BOWL, WITH MANUALLY OPERATED 1.28 GPF FLUSH VALVE SLOAN 111, 1 1/2" TOP SPUD, BEMIS 1955SSCT SEAT
L-1	LAVATORY ADA ACCESSIBLE	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER	K-2005	WALL MOUNTED, WITH MANUAL FAUCET DELTA D501LF-HDF SINGLE HANDLE, BELOW DECK CONTROL MODULE AND ASSE 1070 COMPLIANT MIXING VALVE TMV-1 SYMMONS MODEL 8210CK, GRID STRAINER, CHROME TAILPIECE, CHROME OFFSET DRAIN (IF NEEDED), CHROME P-TRAP, CHROME KEYSUPPLY STOPS W/SINGLE PIECE CHROME ESCUTCHEON PLATES, ADA COMPLIANT COVERINGS, CONCEALED ARM CARRIER
MB-1	MOP SERVICE BASIN	3"	1-1/2"	1/2"	1/2"	E L MUSTEE	62M	24"x24"x8-1/4" BASIN W/ STAINLESS STEEL CAP, T&S BRASS B-0665-BSTC-R FAUCET & PAIL HOOK, WATTS LF8A HOSE CONNECTION VACUUM BREAKER, 30" HOSE & BRACKET, MOP HANGER, STAINLESS STEEL SPLASH CATCHER PANELS (TWO SIDES)
DF-1	WATER COOLER BI-LEVEL BARRIER-FREE	1-1/2"	1-1/2"	1/2"	--	ELKAY	LK4409BF	WALL-MOUNTED, ADA COMPLIANT WITH BOTTLE FILLER AND BI-LEVEL FOUNTAIN NON-FILTERED NON-REFRIGERATED. FURNISHED WITH VANDAL RESISTANT BUBBLER. NO ELECTRICAL REQUIRED.
HB-1	HOSE BIBB	--	--	3/4"	--	WOODFORD	65	3/4" ANTI-SIPHON TYPE, CHROME FINISH, W/ LOOSE KEY, NIDEL MODEL 34HF VACUUM BREAKER, ASSE STANDARD 1011 APPROVED
FD-1	FLOOR DRAIN - ROUND	SIZE/SEE DWG	-	-	-	ZURN	Z-400 BRONZE	PROVIDE OPTION "TSP" TRAP SEAL
TD-1-3	TRENCH DRAIN	4"	-	-	-	WATTS	DEAD LEVEL P	PRE-SLOPED POLYPROPYLENE TRENCH DRAIN WITH 304 STAINLESS STEELCOVER, 12 GAUGE, ADA COMPLIANT, HEEL PROOF, THRESHOLD DRAIN WITH ANCHOR STRAPS AND GRATE LOCK DOWNS. PROVIDE ALL TRENCH DRAINS WITH TRAP PRIMER VALVES.
FCO-1	FLOOR CLEAN-OUT	SIZE/SEE DWG	-	-	-	ZURN	Z1400-K	CAST FROM ADJUSTABLE HEIGHT CLEAN-OUT, DURA COATED BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND, HEAVY DUTY NICKEL BRONZE COVERPLATE.
WCO-1	WALL CLEAN-OUT	SIZE/SEE DWG	-	-	-	ZURN	Z1446	SANITARY SERVICE CLEAN OUT TEE WITH BRONZE COUNTERSUNK PLUG AND STAINLESS STEEL ROUND ACCESS COVER. PROVIDE LENGTH CENTER SCREW FOR EACH APPLICATION
SH-1	ADA - WASHDOWN STATION	--	--	1/2"	--	AQUA STYLE	KENZO TRIPLE FUNCTION OUTDOOR SHOWER	STAINLESS STEEL OUTDOOR SHOWER WITH SINGLE LEVER, THREE-WAY DIVERTER, AND FOOT RINSE SPOUT.

GENERAL NOTES:
 1. ALL PLUMBING FIXTURES SHALL BE SUPPLIED WITH WATTS "FLOODSAFE" AUTO-SHUT OFF CONNECTOR TYPE SUPPLY RISERS WITH BRAIDED STAINLESS STEEL CONNECTORS. THIS SHALL INCLUDE ALL FAUCETS, TOILETS, WASHING MACHINES, DISHWASHERS & ICE MAKERS. PROVIDE FULLY ACCESSIBLE WATER HAMMER ARRESTORS ON SUPPLIES TO WASHING MACHINES, ICE MAKERS AND DISHWASHERS.
 2. CONTRACTOR SHALL SUBMIT ALTERNATE FIXTURE SELECTIONS FOR REVIEW AND APPROVAL THROUGH SUBMITTAL PROCESS. ALTERNATE MANUFACTURERS INCLUDE BUT ARE NOT LIMITED TO: KOHLER, AMERICAN STANDARD, ELKAY, ZURN, JAY R. SMITH, WATTS, JOSAM, GUY GRAY, FRANKE, T&S, WADE
 3. PROVIDE MANUFACTURED FIRE RATED BOXES OR PROVIDE 5 SIDED FIRE RATED BOXES FOR ALL ITEMS LOCATED WITHIN FIRE RATED WALLS.
 4. WHERE COLOR/FINISH OPTIONS ARE AVAILABLE FOR FIXTURES, SELECTIONS SHALL BE SUBMITTED TO THE OWNER/ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
 5. VERIFY EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL FIXTURES WITH ARCHITECT/OWNER.
 6. FIXTURES FOR THE DISABLED:
 A. INSTALL IN ACCORDANCE WITH A.D.A., STATE, AND LOCAL REQUIREMENTS.
 B. THE FORCE REQUIRED TO ACTIVATE FLUSH VALVES AND FAUCETS SHALL BE NO GREATER THAN 5 LBS AND SHALL NOT BE OF A TYPE REQUIRING TIGH GRASPING, PINCHING, OR TWISTING OF THE WRIST.
 C. FLUSH VALVE ACTIVATOR SHALL BE LOCATED ON OPEN SIDE OF STALL.

PUMP SCHEDULE

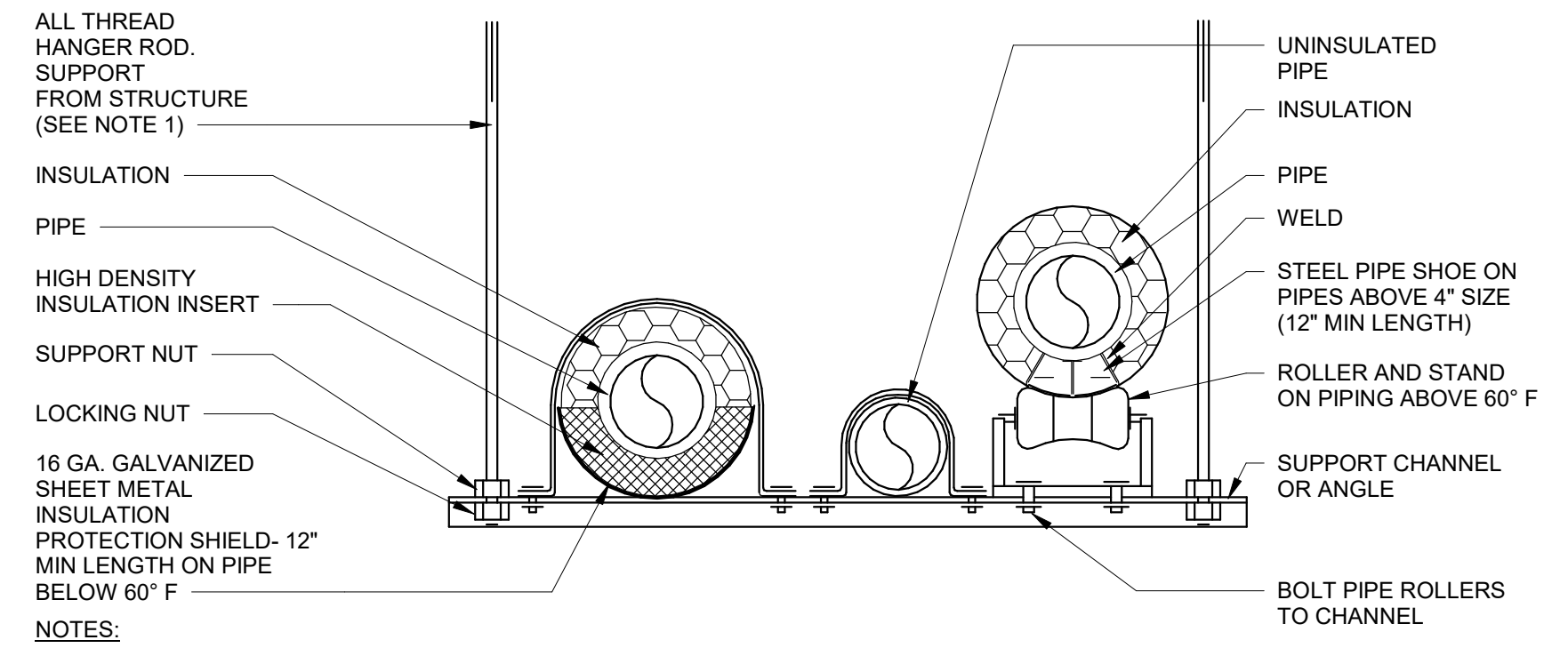
MARK	SYSTEM SERVED	TYPE	GPM	HEAD (FT.)	EFF. %	WATTS	RPM	V-PH	BASIS OF DESIGN	REMARKS
RP-1	DOMESTIC HOT WATER	INLINE RECIRC.	7	10	-	125	2950	120-1	BELL & GOSSETT NBF25	1

REMARKS:
1. PROVIDE WITH 24 HR/7DAY TIMER FORE SCHEDULING AND AQUASTAT.

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	TYPE	GALLONS	INPUT KW	GPH REC. @ 54°F RISE	V/PH	NUMBER OF ELEMENTS	OPERATING WEIGHT	MANUFACTURER	MODEL
EWH-1	MAINTENANCE STORAGE	ELECTRIC	40	6.00	30	240/1	2	450	AO SMITH	DES-40A

GENERAL NOTES:
 1. PROVIDE WITH EXPANSION VALVE, T&P VALVE, AND WATER HEATER DRAIN PAN.
 2. PROVIDE WITH ELECTRICAL DISCONNECT. COORDINATE WITH DIVISION 26 CONTRACTOR. NON-SIMULTANEOUS OPERATION.



NOTES:
1. PROVIDE CONCRETE INSERTS OR FASTEN TO TOP CHORDS AT BAR JOISTS OR OTHER STRUCTURAL BEAMS. DO NOT FASTEN TO ROOF DECK OR JOIST BRIDGING.

8 SUPPORT DETAIL - TRAPEZE PIPE 3
NOT TO SCALE

DATE: _____
 REVISION: _____
 SYMBOL: _____
 DATE: _____
 REVISION: _____
 SYMBOL: _____
 DATE: _____
 REVISION: _____
 SYMBOL: _____

ISSUE DATE: 04/10/2024
 COMP FILE NO: F13622.2
 PART PROJECT NO: 61437C

DESIGNER: DGC
 DRAWN BY: DGC
 REVIEWED BY: JAD
 CONSULTANT: _____

PROFESSIONAL REGISTRATION NO. _____
 REGISTRATION NO. _____
 JEFFREY DEAL, PE
 TBD-Mech License

WILLIAM J. "RISH" PARK
 PLUMBING SCHEDULES & DETAILS
 BEACH SIDE DAY USE RESTROOM

Department of Environmental Protection
 Division of Recreation and Parks
 Bureau of Design and Construction
 3800 Commonwealth Blvd., Tallahassee, FL 32399 (851) 425-2300

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