

# PLUMBING SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

ANNOTATION	PIPING
① PLUMBING PLAN NOTE CALLOUT	--- DOMESTIC COLD WATER (CW)
① PLUMBING EQUIPMENT DESIGNATION, (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	---SCW--- SOFTENED COLD WATER (SCW)
① EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)	--- DOMESTIC HOT WATER (HW)
① MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	--- DOMESTIC HOT WATER RECIRC. (HWR)
① CONNECTION POINT OF NEW WORK TO EXISTING	--- 140°--- 140° DOMESTIC HOT WATER (140°)
① DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	--- T --- TRAP PRIMER LINE (T)
① SECTION CUT DESIGNATION	--- S --- SOIL PIPING - ABOVE FLOOR (S)
	--- S --- SOIL PIPING - BELOW FLOOR (S)
	--- W --- WASTE PIPING - ABOVE FLOOR (W)
	--- W --- WASTE PIPING - BELOW FLOOR (W)
	--- GW --- GREASE WASTE - ABOVE FLOOR (GW)
	--- GW --- GREASE WASTE - BELOW FLOOR (GW)
	--- ST --- STORM DRAIN - ABOVE FLOOR (ST)
	--- ST --- STORM DRAIN - BELOW FLOOR (ST)
	--- OST --- OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
	--- AW --- ACID WASTE - ABOVE FLOOR (AW)
	--- AW --- ACID WASTE - BELOW FLOOR (AW)
	--- AV --- ACID VENT (AV)
	--- V --- VENT PIPING (V)
	--- VBG --- VENT BELOW GRADE (VBG)
	--- VBF --- VENT BELOW FLOOR (VBF)
	--- ID --- INDIRECT DRAIN (ID)
	--- CDH --- CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)
	--- CD --- CONDENSATE DRAIN (CD)
	--- ACD --- AUXILIARY CONDENSATE DRAIN (ACD)
	--- SPD --- SUMP OR SEWAGE PUMP DISCHARGE (SPD)
	--- CA --- COMPRESSED AIR (CA)
	--- G --- NATURAL GAS (G)
	--- G --- NATURAL GAS ON ROOF (G)
	--- AI --- MEDICAL AIR INTAKE (AI)
	--- MA --- MEDICAL AIR (MA)
	--- MV --- MEDICAL VACUUM (MV)
	--- VE --- MEDICAL VACUUM EXHAUST (VE)
	--- EV --- EVACUATION (EV)
	--- CO --- CARBON DIOXIDE (CO)
	--- N --- NITROGEN (N)
	--- O --- OXYGEN (O)
	--- NO --- NITROUS OXIDE (NO)
	--- NPW --- NON POTABLE WATER (NPW)
	--- LPG --- LIQUIFIED PETROLEUM GAS (LPG)
	--- WS --- WATER SERVICE (WS)
	--- FP --- FIRE PROTECTION (FP)
	--- PD --- CONDENSATE PUMP DISCHARGE (PD)
	--- --- EXISTING PIPING TO BE REMOVED
	--- --- EXISTING PIPING TO REMAIN
	--- --- SQUARE FLOOR DRAIN (FS), SIZE & TYPE
	--- --- ROUND FLOOR DRAIN (FD), SIZE & TYPE
	--- --- ROOF DRAIN (RD), SIZE & TYPE
	--- --- OXYGEN OUTLET
	--- --- NITROUS OXIDE OUTLET
	--- --- MEDICAL AIR OUTLET
	--- --- NITROGEN OUTLET
	--- --- MEDICAL VACUUM INLET
	--- --- BALL VALVE
	--- --- CONTROL VALVE
	--- --- THREE-WAY CONTROL VALVE
	--- --- SHUTOFF VALVE
	--- --- CHECK VALVE
	--- --- BALANCING VALVE WITH PRESSURE PORTS
	--- --- TRIPLE DUTY VALVE WITH PRESSURE PORTS
	--- --- WATER METER
	--- --- STRAINER
	--- --- STRAINER WITH BLOWOFF
	--- --- RELIEF/SAFETY VALVE
	--- --- SOLENOID VALVE
	--- --- PRESSURE REDUCING VALVE
	--- --- GAS PRESSURE REGULATOR
	--- --- THERMOSTATIC MIXING VALVE
	--- --- PIPE ANCHOR
	--- --- EXPANSION JOINT
	--- --- BACKFLOW PREVENTER
	--- --- PRESSURE GAUGE
	--- --- THERMOMETER
	--- --- UNION
	--- --- FLANGE CONNECTION
	--- --- HOSE BIBB (HB)
	--- --- NONFREEZE WALL HYDRANT (NW)
	--- --- MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE
	--- --- CLEANOUT
	--- --- CAP
	--- --- WALL CLEANOUT (WCO)
	--- --- FLOOR CLEANOUT (FCO)
	--- --- EXTERIOR CLEANOUT (ECO)
	--- --- ELBOW UP
	--- --- ELBOW DOWN
	--- --- TEE UP
	--- --- TEE DOWN
	--- --- ELBOW UP WITH SHUT-OFF VALVE (SOV)
	--- --- ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
	--- --- TEE UP WITH SHUT-OFF VALVE (SOV)
	--- --- TEE DOWN WITH SHUT-OFF VALVE (SOV)
	--- --- WATER HAMMER ARRESTER (WHA)
	--- --- WITH PDI SIZES, (A, B, C, D, & E)
	--- --- RECIRCULATION PUMP
	--- --- P-TRAP
	--- --- GAS COCK
	--- --- TRAP PRIMER
	--- --- TRAP PRIMER WITH DISTRIBUTION UNIT

## STANDARD MOUNTING HEIGHTS

PLUMBING	(AFF, AFG, UNLESS NOTED OTHERWISE)
ADA ACCESSIBLE DRINKING FOUNTAIN	17" FLOOR TO RIM
ADA ACCESSIBLE LAVATORIES	34" FLOOR TO RIM
ADA ACCESSIBLE SHOWER VALVES	38" MINIMUM TO 48" MAXIMUM FLOOR TO CENTERLINE
ADA ACCESSIBLE TUB VALVES	CENTER BETWEEN GRAB BAR AND TUB RIM
ADA ACCESSIBLE URINALS	17" FLOOR TO RIM
ADA ACCESSIBLE WATER CLOSET	17" TO 19" FLOOR TO TOP OF SEAT
ADA ACCESSIBLE WATER COOLER	35" FLOOR TO RIM
ADULT STANDARD DRINKING FOUNTAIN	40" FLOOR TO RIM
ADULT STANDARD WATER COOLER	30" FLOOR TO RIM
CHILD STANDARD DRINKING FOUNTAIN	30" FLOOR TO RIM
CHILD STANDARD WATER COOLER	14" FLOOR TO RIM
CHILD URINAL	14" FLOOR TO RIM
CLINIC SERVICE SINKS	30" FLOOR TO RIM
JANITOR'S SINK FAUCET FITTINGS	42" FLOOR TO CENTERLINE
HOSE BIBBS	36" AFF TO CENTERLINE
ICE MAKER OUTLET BOXES	24" FLOOR TO CENTER OF BOX
LAVATORY OR SINK	31" FLOOR TO RIM
NON FREEZE HYDRANT	18" AFG TO CENTERLINE
SHOWER HEADS	6"-0" MEN & 5"-6" WOMEN FLOOR TO CENTERLINE
SHOWER VALVES	48" MEN & 42" WOMEN FLOOR TO CENTERLINE
STANDARD URINALS	22" FLOOR TO RIM
SURGEON'S SCRUB-UP SINKS	35" FLOOR TO FRONT RIM
TUB VALVES	32" FLOOR TO CENTERLINE
WASHING MACHINE OUTLET BOXES	42" FLOOR TO RIM
WATER CLOSET	15" FLOOR TO RIM

ABBREVIATIONS	MINIMUM	MINIMUM
AFG ABOVE FINISHED GRADE	MIN	MINIMUM
AHU AIR HANDLING UNIT	N/C	NORMALLY CLOSED
BFF BELOW FINISHED FLOOR	N/O	NORMALLY OPEN
BFG BELOW FINISHED GRADE	ORD	OVERFLOW ROOF DRAIN
BOP BOTTOM OF PIPE	PDI	PLUMBING DRAINAGE INSTITUTE
BOS BOTTOM OF STRUCTURE	PVC	POLYVINYL CHLORIDE
BTU BRITISH THERMAL UNIT	PRV	PRESSURE REDUCING VALVE
CPVC CHLORINATED POLYVINYL CHLORIDE	RD	ROOF DRAIN
DN DOWN	RPM	REVOLUTIONS PER MINUTE
DS DOWNSPOUT	RTU	ROOFTOP UNIT
ETR EXISTING TO REMAIN	SF	SQUARE FEET, SUPPLY FAN
EWC ELECTRIC WATER COOLER	SP	SUMP PUMP
FD FLOOR DRAIN	SS	STAINLESS STEEL, SANITARY
FFA FROM FLOOR ABOVE	SS	SEWER, SOIL STACK
FTB FROM FLOOR BELOW	TDH	TOTAL DYNAMIC HEAD
FF FINISHED FLOOR	TFA	TO FLOOR ABOVE
FL FLOOR LINE	TFB	TO FLOOR BELOW
FLA FULL LOAD AMPS	TYP	TYPICAL
FLR FLOOR	UL	UNDERWRITERS LABORATORIES, INC.
GPM GALLONS PER MINUTE	UNO	UNLESS NOTED OTHERWISE
HD HEAD, HUB DRAIN	UPS	UNINTERRUPTIBLE POWER SUPPLY
IN WC INCHES OF WATER COLUMN	V	VENT
JB JUNCTION BOX	VCP	VITRIFIED CLAY PIPE
J-BOX JUNCTION BOX	VTR	VENT THROUGH ROOF
KW KILOWATT	W/	WITH
MAU MAKE-UP AIR UNIT	W/O	WITHOUT
MAX MAXIMUM	WC	WATER COLUMN
MBH 1000 BTU PER HOUR	WS	WASTE STACK
MH MANHOLE		

## FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (TANK)	1/2"	---	4"	2"
LAVATORY/ HAND SINK	1/2"	1/2"	2"	1-1/2"
DRINKING FOUNTAIN	1/2"	---	2"	1-1/2"
JANITOR'S SINK	1/2"	1/2"	3"	1-1/2"
FLOOR DRAIN	---	---	2"	2"

NOTE: PIPING SIZES SHOWN ARE MINIMUM.

## PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY DRAINAGE & VENT (ABOVE GRADE)	S, W OR V	HUBLESS CAST IRON
SANITARY DRAINAGE & VENT (BELOW GRADE)	S, W OR V	SERVICE WEIGHT CAST IRON (PVC DWV OPTIONAL)
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWR	TYPE L HARD DRAWN COPPER
POTABLE WATER - 3" & LARGER (BELOW GRADE)	CW, HW OR HWR	DUCTILE IRON
NATURAL GAS (ABOVE GRADE & ON ROOF)	G	SCHEDULE 40 BLACK STEEL
NATURAL GAS - 3" & LARGER (BELOW GRADE)	H	DUCTILE IRON
FIRE PROTECTION (ABOVE GRADE)	FP	SCHEDULE 10 OR 40 BLACK STEEL

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION

## TOTAL CONNECTED NATURAL GAS LOAD

TENANT	EQUIPMENT DESIGNATION	QUANTITY	DESCRIPTION	CFH (EACH)	TENANT SUBTOTAL	TOTAL CFH	TOTAL DEVELOPED LENGTH IN FEET
A	RTU-1	1	ROOF TOP UNIT	150	150	150	150
A	RTU-2	1	ROOF TOP UNIT	150	150	150	150
B	RTU-3	1	ROOF TOP UNIT	80	80	80	150
C	RTU-4	1	ROOF TOP UNIT	80	80	80	150
D	RTU-5	1	ROOF TOP UNIT	80	80	80	150
TOTAL PER METER GROUP A-D						540	
E	RTU-6	1	ROOF TOP UNIT	80	80	80	175
F	RTU-7	1	ROOF TOP UNIT	80	80	80	175
F	RTU-8	1	ROOF TOP UNIT	80	80	80	175
G	RTU-9	1	ROOF TOP UNIT	80	80	80	175
H	RTU-10	1	ROOF TOP UNIT	80	80	80	175
H	RTU-11	1	ROOF TOP UNIT	80	80	80	175
TOTAL PER METER GROUP E-H						1560	
J	RTU-12	1	ROOF TOP UNIT	150	150	150	175
J	RTU-13	1	ROOF TOP UNIT	120	120	120	175
K	RTU-14	1	ROOF TOP UNIT	150	150	150	175
K	RTU-15	1	ROOF TOP UNIT	150	150	150	175
L	RTU-16	1	ROOF TOP UNIT	200	200	200	175
M	RTU-17	1	ROOF TOP UNIT	150	150	150	175
TOTAL PER TENANT G-J						920	
TOTAL BUILDING CONNECTED LOAD =						2480	

SYSTEM OPERATION PRESSURE IS 7" - 10" WATER COLUMN SIZED WITH MAXIMUM PRESSURE LOSS OF 0.5" WATER COLUMN.

## PLUMBING FIXTURE SCHEDULE:

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

**(DCV) DOUBLE CHECK VALVE BACKFLOW PREVENTER:** WATTS # 0070T-FDA-S, EPOXY COATED CAST BRONZE BODY, QUARTER TURN TEST COCKS, EPOXY COATED QUARTER TURN BALL VALVES, AND EPOXY COATED STRAINER. STRAINER TO BE INSTALLED IN THE HORIZONTAL, 24" AFF. BACKFLOW PREVENTER TO BE INSTALLED IN THE VERTICAL, TIGHT TO FACE OF WALL.

**(ET) EXPANSION TANK:** AMTROL "THERM-X-TROL" # ST-5, WELDED STEEL PRESSURE TANK, POLYPROPYLENE LINING, FLEXIBLE BUTYL DIAPHRAGM, AIR CHARGING VALVE, 150 PSI MAXIMUM WORKING PRESSURE, 2.0 GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

**(FCO) FLOOR CLEANOUT:** JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP - 4031L (-F-C), SCORATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR, APPLICATION(S), # 4031L (-F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S).

**(FD-1) FLOOR DRAIN:** JAY R. SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

**(HB) HOSE BIBB:** CHICAGO FAUCET # 998-RFC, ROUGH CHROME PLATED BRASS, 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, # 293-6 LOOSE KEY HANDLE, AND INTEGRAL VACUUM BREAKER.

**(TP) TRAP PRIMER:** PRECISION PLUMBING PRODUCTS # PR-500 "PRIME RITE", CORROSION RESISTANT BRASS BODY, 10" RING SEALS, 1/2" INLET AND OUTLET, AND INTEGRAL VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR. PROVIDE WIPER DISTRIBUTION # DU-1 FOR TWO, # DU-3 FOR THREE, OR # DU-4 FOR FOUR DRAIN CONNECTIONS.

**(WC) FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE):** AMERICAN STANDARD "CAJET" TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON JET ACTION AND SPEED CONNECT TANK/BOWL COUPLING SYSTEM. INSTALL SIDE MOUNTED CHROME TRIP LEVER ON THE WIDE SIDE OF THE STALL.  
BOWL: #417.164 LEFT HAND TRIP LEVER TANK; #4112.016 RIGHT HAND TRIP LEVER TANK; #4112.800. REFERENCE DRAWINGS FOR EXACT NUMBER OF RIGHT AND LEFT HAND TRIP LEVER TANKS REQUIRED.  
TRIM: CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS, MCGUIRE # 2166CG ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON.

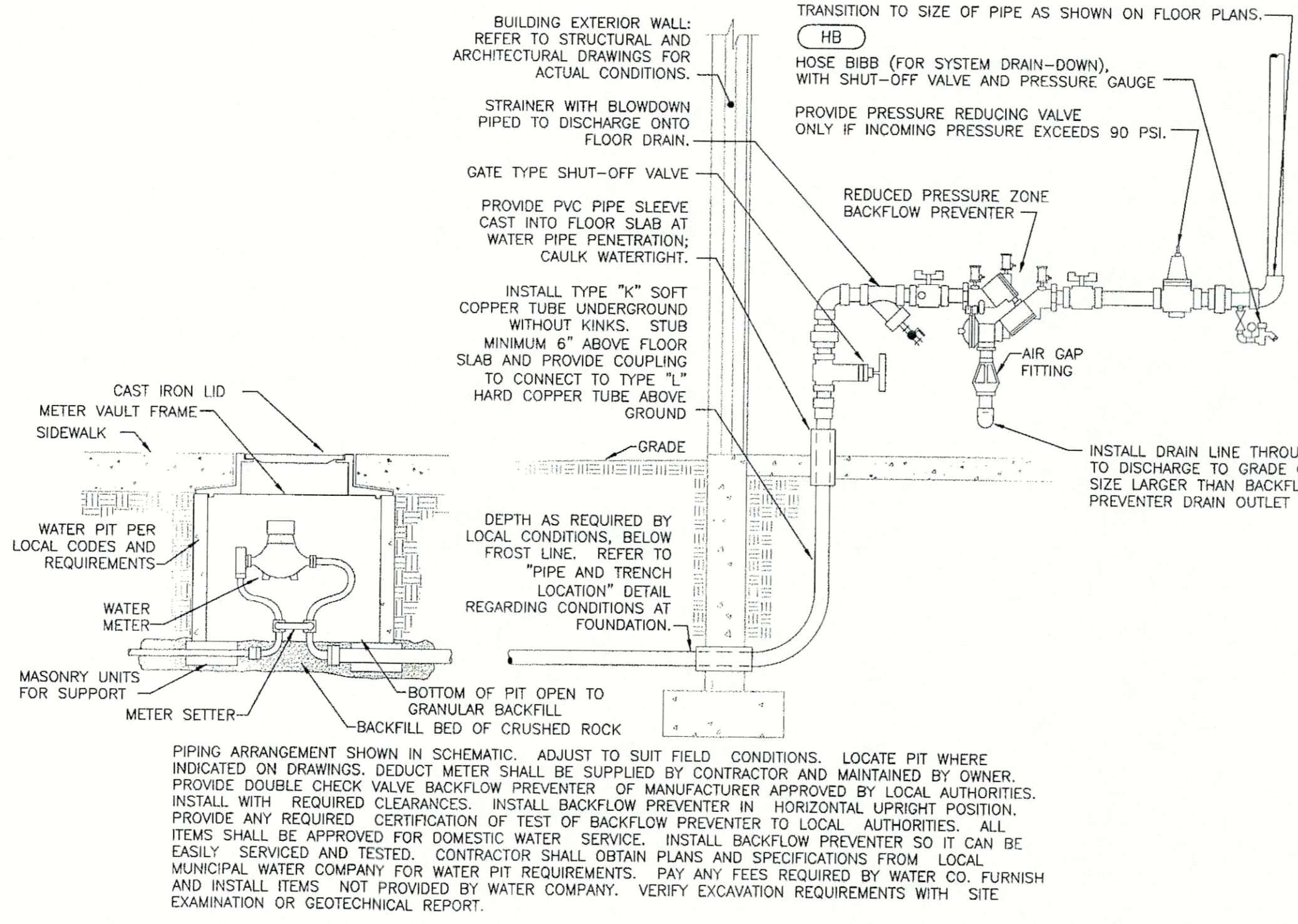
**(WCO) WALL CLEANOUT:** JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK PLUG, STAINLESS STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPECIFICATIONS FOR INSTALLATION.

**(WH-1) WATER HEATER:** EEMAX # SP420B, INSTANTANEOUS, NI CHROME REPLACEMENT CARTRIDGE TYPE HEATING ELEMENT, 4.1 KW INPUT, GLASS REINFORCED BODY, WHITE ABS COVER, 3/8" COMPRESSION INLET AND OUTLET, 0.8 GPM FLOW RESTRICTOR, AND 0.5 GALLONS PER MINUTE AT A 41 DEGREE TEMPERATURE RISE. ELECTRICAL REQUIREMENTS: 208 VOLT SINGLE PHASE, 19.7 FULL LOAD AMPS.

**(WH-2) WATER HEATER:** STATE #PCE-6-10MSA, 6 GALLON GLASS LINED STORAGE TANK, ONE 1.5KW DIRECT-IMMERSION HEATING ELEMENT, SURFACE-MOUNTED THERMOSTATS, ANODE ROD, T & P VALVE, AND 18 GALLONS PER HOUR RECOVERY AT A 90 DEGREE TEMPERATURE RISE. SET WATER HEATER OPERATING TEMPERATURE TO 120 °F.  
ELECTRICAL REQUIREMENTS: 120 VOLT, 12.5 FULL LOAD AMPS.

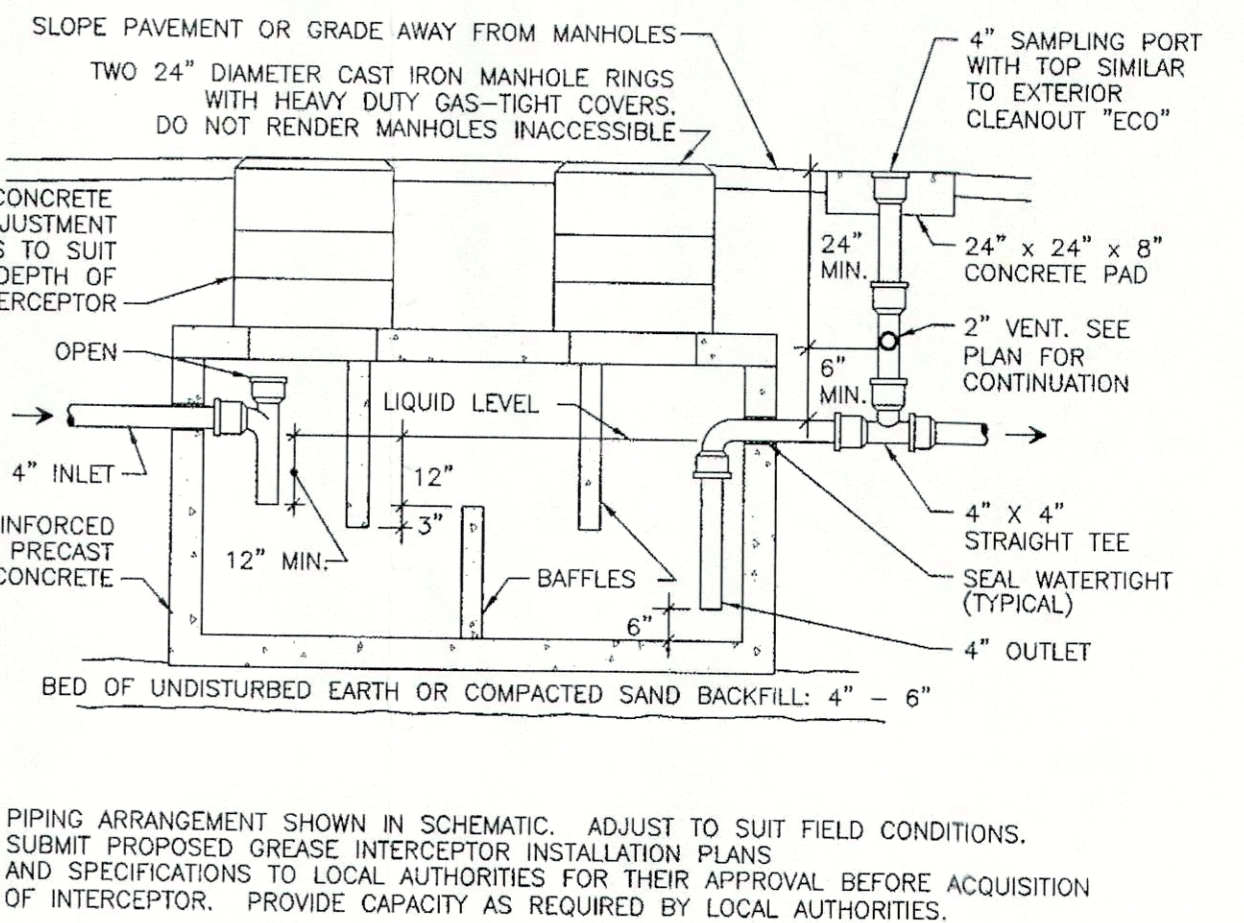
**(WHA) WATER HAMMER ARRESTER:** PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH BROUGHED COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, ASSE 1010 CERTIFICATION. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE ON THE PLANS.

**(WML) WALL-MOUNTED LAVATORY (ADA ACCESSIBLE):** AMERICAN STANDARD # Q355.012 "LUCERNE" 20-1/2" X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.  
FAUCET: CHICAGO FAUCET # 802-VCP 4" CENTERSET, VANDAL RESISTANT, FAUCET WITH # 390 LEVER HANDLES AND # E12 2.2 GPM AERATOR.  
TRIM: MCGUIRE # 155A GRID DRAIN WITH TAILPIECE, MCGUIRE # 2165CCK LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, MCGUIRE # 8872CF 1-1/4" 17 GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT AND DOMESTIC WATER SERVICE. INSTALL BACKFLOW PREVENTER IN HORIZONTAL UPRIGHT POSITION. CARRIERS WITH STANCHIONS TO FLOOR, AND TRIEBRO "HANDI-LAV-GUARD" # 102 INSULATION KIT FOR WATER AND WASTE PIPES.



PIPING ARRANGEMENT SHOWN IN SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. LOCATE PIT WHERE INDICATED ON DRAWINGS. DEDUCT METER SHALL BE SUPPLIED BY CONTRACTOR AND MAINTAINED BY OWNER. PROVIDE DOUBLE CHECK VALVE BACKFLOW PREVENTER OF MANUFACTURER APPROVED BY LOCAL AUTHORITIES. INSTALL WITH REQUIRED CLEARANCES. INSTALL BACKFLOW PREVENTER IN HORIZONTAL UPRIGHT POSITION. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES. ALL ITEMS SHALL BE APPROVED FOR DOMESTIC WATER SERVICE. INSTALL BACKFLOW PREVENTER SO IT CAN BE EASILY SERVICED AND TESTED. CONTRACTOR SHALL OBTAIN PLANS AND SPECIFICATIONS FROM LOCAL MUNICIPAL WATER COMPANY FOR WATER PIT REQUIREMENTS. PAY ANY FEES REQUIRED BY WATER CO. FURNISH EXAMINATION OR GEOTECHNICAL REPORT.

## 2 DOMESTIC WATER SERVICE ENTRY (RPZ) NO SCALE



PIPING ARRANGEMENT SHOWN IN SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE CAPACITY AS REQUIRED BY LOCAL AUTHORITIES.

## 1 PRECAST CONCRETE GREASE INTERCEPTOR NOT TO SCALE

## PLUMBING GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- FURNISH A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS PREPARED BY THE ENGINEER-OF-RECORD AFTER FINAL INSPECTION OF INSTALLED PLUMBING SYSTEMS.
- FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PROJECT.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
- PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND/OR OWNER.
- COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10" MINIMUM CLEARANCE FROM ALL AIR INTAKES AND ROOF EDGES. MAINTAIN A 2" CLEARANCE FROM ALL OTHER ROOF TOP EQUIPMENT.
- INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.

REVISION #	DATE	DESCRIPTION	BY
1	8/13/07		

**DDG DUPLANTIS DESIGN GROUP, PC**  
*Respect • Integrity • Client Satisfaction • Excellence*  
 THIBODAUX MANDEVILLE HOUSTON  
 Civil Engineers • Site Development • Land Planning • Public Works • Architecture  
 318 E. Lake Street, Suite 200  
 Thibodaux, Louisiana 70301  
 Phone: 985-447-4700  
 Fax: 985-447-1000

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 STATE OF LOUISIANA  
 DUANE G. HENDERSON  
 License No. 2222  
 PROFESSIONAL ENGINEER  
 IN