PLUMBING SPECIFICATIONS:

1. GENERAL

1..1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc., as required.

1..2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.

1..3 Record Drawings: Provide a set to the Architect at completion of project.

1..4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.

1..5 Guarantee: One year on labor, material and equipment.

2. PRODUCTS

2..1 Piping:

2..1.1 Water Piping:

2..1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.

2..1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Provide plastic sleeve for each piping penetration through concrete slab.

2..1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.

2..1.2 Waste and Vent and Storm Drainage System Piping:

2..1.2.1 Cast iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.

2..1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.

2..1.2.3 Fittings (Waste and Vent and Storm Drainage System, no-hub cast iron): No-hub cast iron drainage pattern fittings conforming to CISPI #301-95.

2..1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to ANSI B16.4.

2..1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard C564 (NOTE: Screened stainless shield is not approved).

2..1.2.6 Couplings (Storm Drainage Couplings, above and below grade): As manufactured by Clamp-All Corp., 24 gauge type 304 stainless steel, with high-torque clamps tightened to 100-125 inch-pounds of torque. Coupling gaskets shall be made of neoprene and shall interlock with housing assembly to make a slip-free joint. Contractor's option: "MG" two-piece cast iron coupling, "Husky" Series 4000 coupling, or "Best" cast iron coupling may be used.

2..1.2.3 Plastic: Subject to Owner approval, ABS plastic piping conforming to ASTM D-2751-88, Schedule 40, or PVC piping conforming to ASTM D-2665-88, are acceptable for sanitary waste and vent and storm drainage piping installed below grade or slab. Fittings: Drainage fittings to match pipe.

2..2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.

2..3 Pipe Insulation: Use fiberglass premolded insulation with all-service jacket, minimum density of 3.5 pcf. Provide an additional 8-ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:

Domestic Hot Water Supply Lines:

Mains and horizontal branches – 1" thickness.
Drops in walls and partitions – 1/2" thickness.

2..4 Valves:

2..4.1 Gate Valves: Stockham B-104, 125# SWP soldered joint, for all lines up to 3" diameter; cast bronze body and bonnet conforming to ASTM B-62, solid disc, copper-silicon alloy stem, brass packing gland, Teflon-impregnated packing and malleable handwheel. Stockham G-612 for valves larger than 3" diameter, Class 125 iron body, bronze mounted, with body and bonnet conforming to ASTM A-126, Class B cast iron, flanged ends, with Teflon-impregnated packing and two-piece packing gland assembly.

2..4.2 Check Valves: Stockham B-309, 125# SWP, solder joint for all valves up to 2" diameter, with body and cage conforming to ASTM B-62, cast bronze composition and swing type disc. Stockham G-931, iron body, bronze mounted with body and cage conforming to ASTM A-126, Class B cast iron, flanged ends, swing type service for all valves larger than 2" in diameter.

2..4.3 Ball Valves: Stockham S-216-BR-RS for all valves up to 2" in diameter, with solder end joints with extended solder cups shall be 600 psi CWP, cast brass body, replaceable Teflon seats, conventional port, blowout-proof stems, and chrome-plated brass ball.

2..5 Drains:

2..5.1 Floor Drains:

2..5.1.1 FD: J.R. Smith 2005-A Duco cast iron drain body with 5" diameter adjustable nickel bronze strainer(color as selected by Arch. provide submittal), trap primer connection (where required) and no-hub outlet connection.

2..5.2 Roof Drains:

2..5.2.1 RD: J.R. Smith 1010 cast iron roof drains with flashing collar and cast iron dome. Furnish extension for insulated roofs. Sump receiver and underdeck clamp for all but poured-in-place installations. Outlet connection type shall be compatible with piping system. Provide lead flashing for all roof drains.

2..5.2.2 OD: J.R. Smith 1070 with same features as described for "RD". Standpipe shall be secured so that after the installation of the drain assembly, the top of the standpipe shall be a minimum of 2" above the adjacent finished roof surface.

2..6 Cleanouts:

2..6.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top. (color as selected by Arch.)

2..6.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.

2..6.3 Interior Finished Walls: J.R. Smith 4532.

2..6.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.

2..6.5 Provide all cleanouts with heavy threaded bronze plugs.

2..7 Plumbing Fixtures: Use adjustable brass P-traps with wall escutcheons at all exposed locations. Use faucets with removable trim, brass body and brass handles. Fixture and supply fittings shall be of one handles. Fixtures and supply fitting shall be of one manufacturer. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound. See Plumbing Fixture Specification Schedule on drawings for complete fixture specification. Finishes per fixture schedule. Coordinate all finishes with architect prior to submittal.

2..8 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and addenda items:

Fixtures: Crane, American Standard, Eljer, Kohler.

Mop Sinks: Fiat, Swan, Florestone.

Electric Water Coolers: Oasis, Elkay, Halsey Taylor, Filtrine.

Electric Water Heaters: Lochinvar, A. O. Smith, Ruud.

Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.

Hose Bibbs: Acorn, Chicago, Woodford. Color: Nickel

Supply Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.

P-Traps: Crane. Kohler, Eljer, Frost, McGuire.

Supply Fittings: Chicago, American Standard, Eljer, Speakman, Kohler.

Closet Seats: Sperzel, Olsonite, Beneke, Bemis.

Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.

Hangers: Grinnell, Fee & Mason, Elcen, Kin-Line, F & S, B-Line, Michigan.

3. EXECUTION

3..1 Tests and Inspections:

3..1.1 All work to be tested and approved before covering as directed by Architect. Remake all leaking joints.

3..1.2 Water System: 150 psi hydrostatic pressure held for four hours.

3..1.3 Soil and Vent System and Storm Drainage System: Fill with water to highest point in the system and stand without loss for two hours.

3..2 Flashing, Sleeves and Escutcheon Plates:

3..2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300-4 (or equal), or with sheet lead weighing not less than 4 pounds per square foot. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.

3..2.2 Roof Drain Flashing: provide 36" square, 2-1/2 pound sheet lead flashing conforming to Fed Spec. QQ-S-571C around all roof drains and overflow drains.

3..2.3 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.

3..2.4 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.

3..3 Electrical: Wiring by Electrical Contractor.

PLUMBING CONSTRUCTION NOTES

1. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
2. BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.
4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
5. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
6. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.
8. WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL SHALL BE LOCATED FROM THE ARCHITECTURAL DRAWINGS.
9. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
10. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
11. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.

## FIXTURE UNIT CALCULATIONS

| DESCRIPTION | QTY | F.U. EACH | | TOTAL F.U. | |
|---|---|---|---|---|---|
| | | WASTE | WATER | WASTE | WATER |
| WATER CLOSET (F.T.) | 4 | 6 | 24 | 12 | 48 |
| LAVATORY | 4 | 1 | 4 | 4 | 8 |
| SINK | 6 | 2 | 4 | 12 | 24 |
| MOP SINK | 1 | 2 | 4 | 2 | 4 |
| SHOWER | 1 | 4 | 4 | 4 | 4 |
| TOTALS | | | | 26 | 68 |
| EXISTING F.U USED TO DATE | | | | | 10 |
| TOTAL FU | | | | | 78 |
| TOTAL FIXYTURE UNITS ALLOWABLE FOR FUTURE | | | | | 122 |

58 FU = 32 GPM (FLUSH TANK SYSTEM)
(EXISTING 1-1/2" METER AND 1-1/2" SERVICE TO BUILDING) = 200 F.T.F.U. = 65 GPM

EXISTING SYSTEM SIZED AT 15 PSI DROP PER 100 FEET

### BRANCH PIPE SIZING CHART FOR 15.0 PSI LOSS/ 100 FT OF PIPING

| PIPE SIZE | FLUSH VALVE FIXTURE UNITS | FLUSH TANK FIXTURE UNITS | GPM |
|---|---|---|---|
| 1/2" | – | 5 | 4.5 |
| 3/4" | – | 16 | 12 |
| 1" | 8 | 42 | 25 |
| 1-1/4" | 26 | 83 | 39 |
| 1-1/2" | 57 | 146 | 54 |

## WATER CONSERVATION NOTES

ALL FIXTURES SHALL MEET THE FOLLOWING LOW-FLOW WATER CONSERVATION REQUIREMENTS:

WATER CLOSETS: 1.6 GALLONS PER FLUSH
LAV FAUCETS: .5 GALLONS PER MINUTE
SINK FAUCETS: 3.0 GALLONS PER MINUTE

PROVIDE FLOW RESTRICTORS WHERE REQUIRED TO MEET THESE FLOW RATES.

## FIXTURE CONNECTION SCHEDULE

| MARK | DESCRIPTION | W | V | CW | HW | REMARKS |
|---|---|---|---|---|---|---|
| WC1 | WATER CLOSET | 4" | 2" | 1/2" | – | FLUSH TANK,1.6 GPF |
| L1 | LAVATORY (ADA) | 2" | 1-½"2" | 1/2" | 1/2" | SELFRIMMING 0.5 GPM, ADA |
| S1 – S3 | SINK | 2" | 1-1/2" | 1/2" | 1/2" | SEL RIMIMING |
| MS | MOP SINK | 3" | 1-1/2" | 1/2" | 1/2" | FLOOR TYPE |
| HSH | SHOWER | 4" | 2" | 3/4" | 3/4" | WITH TRENCH DRAIN |

## PLUMBING FIXTURE SPECIFICATIONS:

WC1 – WATER CLOSET (FLOOR MOUNTED TANK TYPE, ADA):
FIXTURE AND COLOR SHALL BE PER ARCHITECTS SPECIFICATIONSFLOOR SET VITREOUS CHINA, 1.6 GALLONS PER FLUSH WATER-SAVER WATER CLOSET. DIRECT-FED JET, SIPHON-ASSISTED BLOW-OUT ACTION, ELONGATED BOWL. COLOR SHALL BE WHITE. PROVIDE OPEN FRONT SEAT, WITHOUT COVER, AND 1/2" x 1/2" ANGLE STOP WITH FLEXIBLE TUBE RISER. CONTRACTOR TO PROVIDE $175.00 FOR FIXTURE ALLOWANCE ONLY, THIS COST DOES NOT INCLUDE ROUGH-IN INSTALLATION AND LABOR.

L1 – LAVATORY: (WALL HUNG):
FIXTURE AND COLOR SHALL BE PER ARCHITECTS SPECIFICATIONS. SUPPLY FITTING: ADA COMPLIANT FAUCET, POLISHED CHROME FINISH, 1/2 GPM AERATOR ADA GRID DRAIN ASSEMBLY. PROVIDE 1/2" x 3/8" ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. PROVIDE OFFSET P-TRAP FOR HANDICAPPED ACCESS. INSULATE ALL EXPOSED WATER AND WASTE PIPING BELOW COUNTER WITH TRUEBRO, "HANDI-GUARD" INSULATION KIT, MODEL 102, WITH ACCESSORY #105, AND PROVIDE A DECORATIVE COVER (VERIFY WITH ARCHITECT) CONTRACTOR TO PROVIDE $725.00 FOR FIXTURE AND FAUCET ALLOWANCE ONLY, THIS COST DOES NOT INCLUDE ROUGH-IN INSTALLATION AND LABOR.

S1 – EXAM SINK:
FIXTURE AND COLOR SHALL BE PER ARCHITECTS SPECIFICATIONS. SUPPLY FITTING: FOOT PEDAL OPERATED FAUCET W/ 1/2 GPM AERATOR GRID DRAIN ASSEMBLY. PROVIDE 1/2" x 3/8" ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. CONTRACTOR TO PROVIDE $765.00 FOR FIXTURE AND FAUCET ALLOWANCE ONLY, THIS COST DOES NOT INCLUDE ROUGH-IN INSTALLATION AND LABOR.

S2 – SINK:
FIXTURE AND COLOR SHALL BE PER ARCHITECTS SPECIFICATIONS 17" x 20" x 7-5/8" DEEP 18 GAUGE TYPE 302 STAINLESS STEEL SELF RIMING SINK, 3-HOLE PUNCHING. SUPPLY FITTING: TWO HANDLE GOOSENECK FAUCET WITH WING HANDLES. PROVIDE BASKET STRAINER. PROVIDE 1-1/2" TRAP ASSEMBLY AND 1/2" x 3/8" ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. PROVIDE 1-1/2" P TRAP. CONTRACTOR TO PROVIDE $765.00 FOR FIXTURE ALLOWANCE ONLY, THIS COST DOES NOT INCLUDING FOR ROUGH-IN INSTALLATION AND LABOR NOR DOES IT INCLUDE THE FOLLOWING (PLASTER TRAP BY DENTAL EQUIPMENT SUPPLIER). NOTE: PLASTER TRAP SHALL BE IAPMO LISTED.

S3 – SINK:
FIXTURE AND COLOR SHALL BE PER ARCHITECTS SPECIFICATIONS 33" x 21-1/4" x 6" DEEP 18 GAUGE TYPE 302, STAINLESS STEEL, TWO COMPARTMENT SELF SPECIFIED BY ACRHITECT. SUPPLY FITTING: FAUCET SPECIFIED BY ACRHITECT. PROVIDE BASKET STRAINER. PROVIDE 1-1/2" TRAP ASSEMBLY, AND 1/2" x 3/8" ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. CONTRACTOR TO PROVIDE $765.00 FOR FIXTURE ALLOWANCE ONLY, THIS COST DOES NOT INCLUDING FOR ROUGH-IN INSTALLATION AND LABOR. – DISPOSER: ISE MODEL BADGER V, 1/2 HP, 120 VOLT, SINGLE PHASE. PROVIDE ELKAY MODEL LK-35 BASKET STRAINER AT ONE COMPARTMENT AND DISPOSER AT OTHER COMPARTMENT. PROVIDE 1-1/2" TRAP ASSEMBLY AND 1/2" X 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS.

HSH – SHOWER (HANDICAP):
ADA 3636, 36 X 36 ONE PIECE ACRYLIC MODULE WITH 2" CAST BRASS CHROME PLATED SHOWER DRAIN, GRAB BARS, CURTAIN ROD AND FOLD UP SEAT. COMPLETE WITH "SYMMONS" S-96-300BZ4 PRESSURE BALANCING SHOWER UNIT, WITH 2.75 GPM FLOW RESTRICTOR.

SS – SERVICE SINK:
FIAT MODEL FL-1, 23" x 22", FLOOR MOUNTED, HARD PLASTIC CONSTRUCTION, WITH BAKED ENAMEL SELF-LEVELING LEGS AND FLOOR ANCHOR. FAUCET: "CHICAGO FAUCET" MODEL 626-E3 DECK MOUNTED GOOSENECK SPOUT WITH AERATOR; MODEL 34-EP DOUBLE PEDAL VALVE, WALL MOUNTED LONG PEDALS, WITH 1/2" ANGLE STOPS.

IBC – ICEMAKER VAVLVE BOX:
WATTS MODEL 200IK, MOLDED WHITE DENSITY WHITE STYRENE, FURNISHED COMPLETE WITH VALVE, AND MOLDED FACEPLATE.

TP – TRAP PRIMER:
PRECISION PLUMBING PRODUCTS MODEL P2-500, BRASS BODY, 1/2" NPT FITTING. INSTALL IN ACCESSIBLE AREA. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND LOCAL CODES. COMPLETE WITH BALL VALVE BEFORE TRAP PRIMER.

FS – FLOOR SINK:
J.R. SMITH #3150-Y CAST IRON FLANGED RECEPTOR, ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER; SQUARE NICKEL BRONZE TOP WHEN REQUIRED.

WCO – WALL CLEANOUT:
J.R. SMITH 4532 CAST IRON BRANCH CLEANOUT TEE WITH BRONZE COUNTERSUNK PLUG, ROUND STAINLESS STEEL ACCESS COVER.

TD – TRENCH DRAIN:
J.R. SMITH / ACO SERIES 9818 PRESLOPED POLYMER CONCRETE TRENCH DRAIN SYSTEM WITH INTEGRAL METAL RAIL EDGE. PROVIDE WITH # 9870-461 SLOTTED DUCTILE IRON EXTRA HEAVY DUTY, LOAD CLASS E GRATE. PROVIDE 4, METER LENGTH SECTIONS PER DRAIN.

## ELECTRIC WATER HEATER SCHEDULE

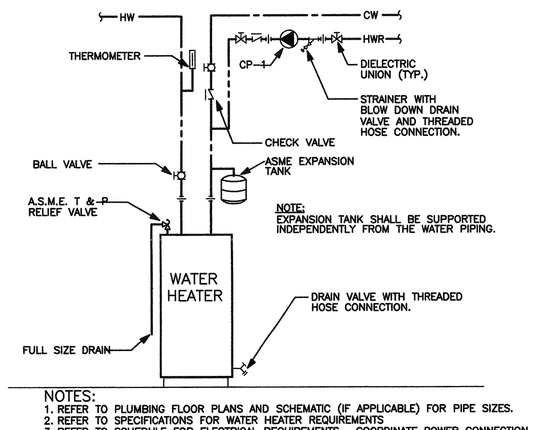
| TAG (WH) | MANUFACT. | MODEL | KW INPUT | RECOVERY GPH @100°F RISE | ELECTRICAL CHARACTERISTICS | | REMARKS |
|---|---|---|---|---|---|---|---|
| | | | | | VOLTS | PHASE | |
| 1 | A.O. SMITH | DEN40 | 4.5 | 18 | 208 | 1 | 40 GALLONS CAPACITY |

PROVIDE WITH "AMTROL" MODEL ST-12-C EXPANSION TANK.

## CIRCULATING PUMP SCHEDULE

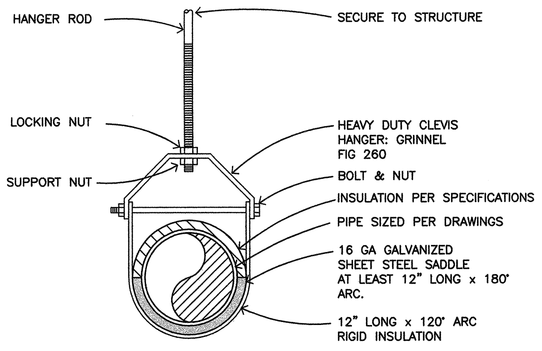
| TAG (CP) | MANUFACT. | MODEL | HP | ELECTRICAL CHARACTERISTICS | | REMARKS |
|---|---|---|---|---|---|---|
| | | | | VOLTS | PHASE | |
| 1 | B & G | LR-15B | 1/12 | 120 | 1 | ALL BRONZE, IN-LINE |

NOTE: PUMP SHALL BE DIRECTLY CONNECTED TO POWER, SEE ELECTRICAL DRAWINGS.

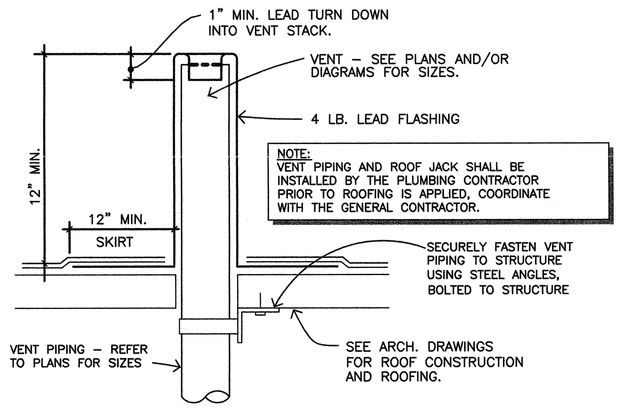



NOTES:
1. REFER TO PLUMBING FLOOR PLANS AND SCHEMATIC (IF APPLICABLE) FOR PIPE SIZES.
2. REFER TO SPECIFICATIONS FOR WATER HEATER REQUIREMENTS
3. REFER TO SCHEDULE FOR ELECTRICAL REQUIREMENTS. COORDINATE POWER CONNECTION WITH ELECTRICAL CONTRACTOR.
4. WATER HEATER SHALL BE PROVIDED WITH A FACTORY INSTALLED, ASME APPROVED TEMPERATURE AND PRESSURE RELIEF VALVE WITH FULL SIZE PIPING TO DRAIN.
5. REFER TO PLUMBING FLOOR PLAN FOR WATER HEATER LOCATION.
6. MINIMUM HW TEMPERATURE SHALL BE 140 DEG. F.
7. WATER HEATER WITHOUT RECIRC. PUMP SIMILAR.

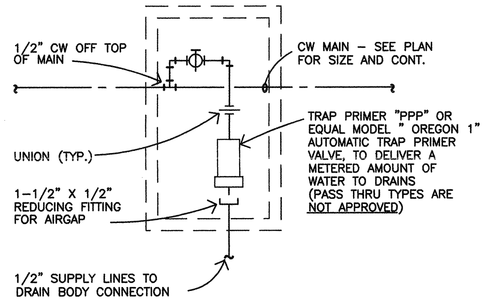
4 ELECTRIC WATER HEATER




3 CLEVIS HANGER DETAIL




2 VENT THRU ROOF DETAIL




1 TRAP PRIMER DETAIL

## PLUMBING LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | W | DRAIN OR WASTE PIPING |
| RDL | RDL | ROOF DRAIN LEADER |
| ODL | ODL | OVERFLOW DRAIN LEADER |
| | V | VENT PIPING |
| | CW | COLD WATER PIPING |
| | HW | HOT WATER PIPING |
| | GV | GATE VALVE |
| | BV | BALL VALVE |
| | FCO | FLOOR CLEANOUT |
| | SCO | SURFACE CLEANOUT |
| | WCO | WALL CLEANOUT |
| | VTR | VENT THRU ROOF |
| | HB | HOSE BIBB |
| | RD | ROOF DRAIN |
| | OD | OVERFLOW ROOF DRAIN |
| | FD | FLOOR DRAIN |
| | U.N.O. | UNLESS NOTED OTHERWISE |
| | | |
| | | |

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Tempe, Az. 85281 (480) 921-2977
06004

REVISIONS

| | |
|---|---|
| 1 | 12/16/05 PERMIT SUBMITTAL |
| 2 | 3/21/06 CITY COMMENTS |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |

FILE NAME:

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HEALTH'S ESSENCE, INC.
BUILDING I, SUITE 110
9811 N. 95TH STREET
SCOTTSDALE, ARIZONA 85258

DATE: 01-31-2006
JOB NO.:
DRAWN BY: CB
CHECKED BY: HRS
SCALE: 1/4"=1'-0"
SHEET NUMBER: P-2
OF SHEETS

SHEET TITLE: