

Order Plans

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PLUMBING NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH 2012 IPC, APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMAN LIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL. ALL EXCAVATION AND BACKFILL, AS REQUIRED FOR THIS PHASE OF CONSTRUCTION, SHALL BE A PART OF THIS CONTRACT.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS, PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULAR AUTHORITIES.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO THE ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- WATER DISTRIBUTION PIPING EXPOSED ABOVE GROUND AND BELOW GROUND SHALL BE ASTM A888 TYPE "L" COPPER WATER DISTRIBUTION PIPING CONCEALED IN WALLS AND ABOVE CEILINGS SHALL BE TYPE "L" COPPER, APPROVED FOR POTABLE WATER USAGE. COORDINATE WITH LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS.
- DRAIN AND MANIFOLD PIPING UNDER 1-COMPARTMENT TO 3-COMPARTMENT WORKS SHALL BE TYPE "L" COPPER.
- SOIL, WASTE, AND VENT PIPING SHALL BE NO HUB ASTM A838 CAST IRON OR ASTM D 2665 PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED FIRE ASSEMBLIES OR THRU PLENUMS.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE TOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AS SHOWN ON DOMESTIC WATER ISOMETRIC, SIZED AND LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WH-PDI 201. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS. ISOLATE COPPER FROM WOOD OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
- PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASES OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN FIRE RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
- PROVIDE COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS FINISH TO MATCH FIXTURE TRIM.
- ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
- ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH 1/2" ARMAFLEX INSULATION. PVC PIPING WITH ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- WATER PIPING INSULATION SHALL BE 1" ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR ALL HOT WATER PIPING. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION, PER 2009 IECC.
- PLUMBING CONTRACTOR SHALL COORDINATE INVERT ELEVATION OF EXISTING SANITARY WASTE DRAINAGE PIPING WITH NEW PIPING PRIOR TO INSTALLATION.
- GENERAL CONTRACTOR TO SEAL ALL PENETRATIONS IN WALLS AND CEILINGS.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL QUICK CONNECTIONS / ISOLATION VALVES AT ALL BEVERAGE MACHINES.
- INDIRECT DRAIN LINES FROM FOUNTAINS, ICE MACHINES, COLD PANS, & OTHER REFRIGERATED MACHINES SHALL BE INSULATED.
- CONDENSATE LINES IN COOLERS AND FREEZERS SHALL BE INSULATED. INSTALL HEAT TRACE FOR CONDENSATE LINES IN FREEZER.

| SLOPE OF HORIZ. DRAINAGE PIPE | |
|-------------------------------|-------------------------------|
| SIZE (inches) | MINIMUM SLOPE (inch per foot) |
| 2-1/2 or less | 1/4 |
| 3 to 6 | 1/8 |
| 8 or larger | 1/16 |

PER THE 2012 INTERNATIONAL PLUMBING CODE.

| CONTRACTOR PROVIDED PLUMBING FIXTURE SCHEDULE | |
|---|---|
| FD-1 | ADJUSTABLE ON-GRADE FLOOR DRAIN, SQUARE, SIOUX CHIEF MODEL #832-35PNO |
| FD-2 | ADJUSTABLE ON-GRADE FLOOR DRAIN, ROUND, SIOUX CHIEF MODEL #932-35PNR |
| FS-1 | 12"x12"x10" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49360A-NB |
| FS-2 | 12"x12"x10" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49360A |
| FS-3 | 8"x8"x6" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49302-LF |
| TP | TRAP PRIMER, PRECISION PLUMBING PRODUCTS MODEL #PT-6 120VAC REQUIRED. |
| HYD | WALL HYDRANT TO BE ZURN MODEL #Z1320-C WITH BOX, 6" WALL THICKNESS, 3/4" STRAIGHT INLET CONNECTION, ANTI-SIPHON, FREEZELESS |
| HYD-R | NON-FREEZE ROOF HYDRANT JAY R SMITH MODEL 5906, 3/4" INLET CONNECTION, 1/8" DRAIN HOLE |
| RECIRC PUMP | BELL AND GOSSETT RECIRC. PUMP MODEL NBF-22U, 115V, 100 WATT, WITH AQUASTAT. (HWRP-1) |
| FCO | FINISHED FLOOR CLEANOUT, ZURN Z1440-NH, CLEANOUT FERRULE W/BRONZE PLUG. |
| WCO | WALL CLEANOUT, ZURN MODEL #ZS1468 W/STAINLESS STEEL ACCESS COVER AND PLUG. |
| GCO | GRADE CLEANOUT, WADE MODEL #6000-12 |
| MV-1 MIXING VALVE | SYMMONS TEMPCONTROL 7-200A WITH 3/4" INLET/ OUTLETS, FULLY ASSEMBLED AND TESTED - 3" DIAL THERMOMETER, CHECK STOPS, REPLACABLE CARTRIDGE AND SHUT-OFF VALVE, MEETS ASSE 1017. |
| MV-2 MIXING VALVE | ZURN MODEL P6900-TMV-1 WITH 3/8" INLETS/ OUTLETS, INTEGRAL CHECK VALVES AND STRAINER SCREEN, MIN. FLOW 0.50 GPM, MEETS ASSE 1070. |

GENERAL NOTES:

(1) - FIXTURES SHALL BE AS SHOWN.
 (2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF IPC 2012.
 (3) - ALL FIXTURES TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE POLISHED CHROME FINISH THE SAME AS ZURN Z6930 FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
 (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

| SHOCK ARRESTOR SCHEDULE | | | |
|-------------------------|-------------------|---------------|------------|
| P.D.L. DESIGNATION | MANUF. & MODEL | FIXTURE UNITS | CONNECTION |
| A | SIOUX CHIEF 654-A | 12" | 1/2" |
| B | SIOUX CHIEF 653-B | 12" | 3/4" |
| C | SIOUX CHIEF 654-C | 33-60 | 1" |

SIOUX CHIEF SHOCK ARRESTOR APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

| WATER HEATER RECOVERY CALCULATION | | | | |
|-----------------------------------|--------------|----------|-------------|------------------|
| FIXTURE | DEMAND (GPH) | QUANTITY | TOTAL (GPH) | NOTES |
| LAVATORY | 6.0 | 6 | 36 | 0.50 GPM AERATOR |
| HAND SINK | 10.0 | 2 | 20 | 0.50 GPM AERATOR |
| COMP SINK | 60.0 | 1 | 60 | 2.20 GPM AERATOR |
| 1-COMP SINK | 15.0 | 1 | 15 | 2.20 GPM AERATOR |
| MOP SINK | 20.0 | 1 | 20 | 2.20 GPM AERATOR |
| | | | 151 | |

151 GPH x 0.30 USAGE FACTOR = 45.3 GPH RECOVERY
 45.3 - GPH x 0.9 STORAGE FACTOR = 41 GAL TANK MINIMUM, 50 GAL TANK PROVIDED.
 9,000 WATTS
 2.42 x 90 F TEMP. RISE = 41.3 GPH RECOVERY PROVIDED.

| PLUMBING LEGEND | | |
|-----------------|----------------------------------|--|
| FCO | FLOOR CLEAN OUT | -----S SANITARY SEWER PIPING |
| WCO | WALL CLEAN OUT | —GW— GREASE WASTE PIPING |
| GCO | GRADE CLEAN OUT | -----S VENT PIPING |
| S.O.V | SHUT-OFF VALVE | —CW— DOMESTIC COLD WATER PIPING |
| FD | FLOOR DRAIN | —HW 110°F— HOT WATER PIPING (110) |
| CW | DOMESTIC COLD WATER | —HW 140°F— HOT WATER PIPING (140) |
| HW | DOMESTIC HOT WATER | —HWR— HOT WATER RECIRCULATING PIPING |
| HWR | DOMESTIC HOT WATER RECIRCULATING | —CD— CONDENSATE PIPING |
| HB | HOSE BIB | —FW— FILTERED WATER PIPING |
| VTR | VENT THRU ROOF | —FWPH— FILTERED WATER PHOSPHATE PIPING |
| ⊘ | BALL VALVE | —O— PIPE RISE UP |
| ⊕ | GLOBE VALVE | —D— PIPE DOWN OR DROP |
| ⊖ | BALANCING VALVE | — CAPPED END OF PIPE |
| # | WATER HAMMER ARRESTER (PDI No.) | — P-TRAP |
| ⊖ FD | FLOOR DRAIN | |
| ⊖ FS | FLOOR SINK | |

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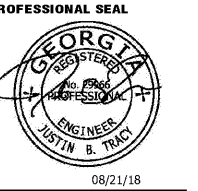
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