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08/09/2023

DRAWING

PLUMBING NOTES ABBREVIATIONS, SYMBOLS, AND SCHEDULES

SCALE N.T.S. 40903

PROJECT NUMBER

DRAWING NUMBER **P0.0**

PLUMBING FIXTURE AND CONNECTION SCHEDULE

| MARK | FIXTURE TYPE | DESCRIPTION | WASTE | VENT | SUPPLY | |
|-------|-------------------------------------|---|--------|--------|--------|------|
| | | | | | CW | HW |
| WC-1 | TOILET (FLOOR MTD.) ADA | WALL HUNG TOILET | 3" | 2" | 1" | - |
| L-1 | LAVATORY (WALL HUNG) | COUNTER MOUNTED LAVATORY | 1-1/2" | 1-1/2" | 1/2" | 1/2" |
| EDF-1 | ELECTRIC WATER COOLER | ELKAY, E28, SINGLE LEVEL WALL MOUNTED @ ADA COMPLIANT HEIGHT WITH STAINLESS STEEL TOP. INTEGRAL REFRIGERATION SYSTEM TO PROVIDE 8.0 GPH OF 50° F DRINKING WATER @ 90° F AMBIENT TEMPERATURE. SYSTEM SHALL OPERATE @ 115 VOLT, FLA: 4.0, 370 WATTS, 55 LBS. PROVIDE WITH EZ-FLO/EASTMAN #04322 1/2" X 3/8" ANGLE STOPS WITH FLEXIBLE TUBE RISER AND LOOSE KEY MOUNTED BEHIND FIXTURE AND 1-1/2" P-TRAP ASSEMBLY. | 1-1/2" | 1-1/2" | 1/2" | - |
| WCO | WALL CLEANOUT | J.R. SMITH MODEL 442, LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW. | VARIES | - | - | - |
| FCO | FLOOR CLEANOUT | J.R. SMITH FIG. NO. 4040, LINE TYPE WITH LACQUERED CAST IRON 2 PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, AND ADJUSTABLE NICKEL-BRONZE STRAINER, ROUND SCORRIATED COVER IN SERVICE AREA OR ROUND WITH DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS AND TRAP PRIMER CONNECTION. | VARIES | - | - | - |
| WHA | WATER HAMMER ARRESTOR | JR SMITH HYDROTOL MODEL (5005 TO 5050), SIZED IN ACCORDANCE W/ PDI STANDARD WH201, PROVIDE ACCESS PANEL. | - | - | - | - |
| BFP | REDUCED PRESSURE BACKFLOW PREVENTER | ZURN WILKINS MODEL # 975XL, AWWA COMPLIANT C511, ASSE® LISTED 1013, IAPMO® LISTED, BRONZE BODY WITH BRONZE AND PLASTIC INTERNAL PARTS AND SS SPRINGS. TWO (2) INDEPENDENTLY OPERATING SPRING LOADED CHECK VALVES, THIRD CHECK VALVE WHICH OPENS UNDER PRESSURE IN CASE OF DIAPHRAGM FAILURE, NON-THREADED VENT OUTLET. ASSEMBLED WITH TWO (2) GATE VALVES, STRAINER AND FOUR (4) TEST COCKS. | - | - | 1/2" | - |
| FD-1 | FLOOR DRAIN | WADE MODEL 1100-STD FLOOR DRAIN, 5" TOP SIZE, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH POLISHED BRONZE TOP AND LIGHT DUTY STRAINER. PROVIDE WITH WADE "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED, FLEXIBLE ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN TOP WITH CURL AT CLOSURE AT BOTTOM, ALLOWS WASTE WATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR. CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTE WATER DISCHARGE IS COMPLETE. | 2" | 2" | - | - |

ELECTRIC WATER HEATER SCHEDULE

| MARK | MANUFACTURER | MODEL | STORAGE CAPACITY | CAPACITY | | WATTS (KW) | RECOVERY 100 DEGREE RISE (GPH) | VOLT/Ø | REMARKS |
|------|--------------|--------|------------------|--------------------|--------------------|------------|--------------------------------|--------|---------|
| | | | | EWT F ³ | LWT F ³ | | | | |
| WH-1 | AO SMITH | EJC-10 | 10 | 40 | 140 | 4.5 | 18 | 120/1 | ① ② ③ |

NOTES:

- WATER HEATER SHALL BE PROVIDED WITH ASME RATED T&P RELIEF VALVE.
- PER DETAIL, PROVIDE THERMOSTATIC MIXING VALVE MODEL # POWERS LM49 WITH INTEGRAL CHECK VALVES AND INLET SCREENS.
- PER DETAIL, PROVIDE EXPANSION TANK MODEL # AMTROL AX-15, WELDED STEEL, TESTED AND STAMPED IN ACCORDANCE WITH IAMPO, RATED FOR 125 PSI, WITH FLEXIBLE DIAPHRAGM SEALED INTO TANK AND STEEL LEGS OR SADDLE. PROVIDE WITH PRESSURE GAUGE AND AIR CHARGE FITTING, TANK DRAIN & PRECHARGED TO 12 PSI.

| ABBREVIATION | DESCRIPTION |
|--------------|---------------------------------------|
| BV | BALANCING VALVE |
| BPW | BED PAN WASHER |
| CA | COMPRESSED AIR |
| CO | CLEAN OUT |
| COTG | CLEAN OUT TO GRADE |
| COP | CLEANOUT PLUG |
| CS | CLINIC SINK |
| CW | COLD WATER |
| CD, SCD | CONDENSATE DRAIN (PRIMARY), SECONDARY |
| CP | CONDENSATE PUMP |
| DE | DEIONIZED WATER |
| DFU | DRAINAGE FIXTURE UNIT |
| DWS | DRINKING WATER SUPPLY |
| EST. | ESTIMATED |
| ET | EXPANSION TANK |
| EW | EMERGENCY EYE WASH |
| EWV | ELECTRIC WATER COOLER |
| EX, OR (E) | EXISTING |
| FCO | FLOOR CLEAN OUT |
| FD | FLOOR DRAIN |
| FLR. | FLOOR |
| FS | FLOOR SINK |
| FV | FLUSH VALVE |
| GW | GREASE WASTE |
| HB | HOSE BIB |
| HW | HOT WATER |
| HWV | HOT WATER RECIRC. |
| LA | LAB AIR |
| LAV | LAVATORY |
| MB | MIXING BOX |
| MER | MECHANICAL ROOM |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| MS | MOP SINK |
| NOM. | NOMINAL |
| P | PUMP |
| PD | PRESSURE DROP |
| PP | PLUMBING PUMP (RECIRC. PUMP) |
| PR | PRESSURE REGULATOR |
| PRV | PRESSURE REDUCING VALVE |
| PW | PURE WATER |
| RO | REVERSE OSMOSIS |
| RPZ | REDUCED PRESSURE BACKFLOW PREVENTOR |
| S | SINK |
| SAN | SANITARY WASTE |
| SB | SPINAL CORD BATH |
| SFU | SUPPLY FIXTURE UNIT |
| SH | SHOWER |
| SP | STATIC PRESSURE |
| SPS | STATIC PRESSURE SENSOR |
| TP | TRAP PRIMER |
| TT | TANK TYPE |
| U | URINAL |
| V | VENT |
| VFD | VARIABLE FREQUENCY DRIVE |
| VI | VIBRATION ISOLATOR |
| WC | WATER CLOSET |
| WCO | WALL CLEAN OUT |
| WFMD | WATER FLOW MEASURING DEVICE |
| WH | WATER HEATER |
| WHA | WATER HAMMER ARRESTER |
| WS | WATER SOFTENER |

FIXTURE UNIT SCHEDULE

| FIXTURE | QTY | DOMESTIC WATER | | WASTE | |
|---------|-----|----------------|----------|---------|----------|
| | | FU/EACH | TOTAL FU | FU/EACH | TOTAL FU |
| WC | 2 | 6 | 12 | 4 | 8 |
| L | 2 | 2 | 4 | 1 | 2 |
| EDF | 1 | 1 | 1 | 1 | 1 |
| SK | 1 | 2 | 2 | 2 | 2 |
| | | | 19 | | 13 |

PLUMBING SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|---|
| --- | WASTE PIPING (W) |
| ---- | VENT PIPING (V) |
| —•—•— | COLD WATER PIPING (CW) |
| —•••— | HOT WATER PIPING (HW) |
| —••••— | HOT WATER RETURN PIPING (HWR) |
| —F— | FIRE SPRINKLER PIPING |
| —D— | DRAIN PIPING (D) |
| ⊕ | BALL VALVE |
| ⊕ | BALANCING VALVE |
| ⊕ | UNION |
| ⊕ | CHECK VALVE |
| ⊕ | HOSE BIBB |
| ⊕ | SURFACE CLEAN-OUT (SCO) |
| ⊕ | FLOOR CLEAN-OUT (FCO) |
| ⊕ | WALL CLEAN-OUT (WCO) |
| ⊕ | FLOOR DRAIN (FD) |
| ⊕ | FLOOR SINK (FS) |
| ⊕ | PIPING UP |
| ⊕ | PIPING DROP |
| ⊕ | S.O.V. IN RISE |
| ⊕ | VENT THRU ROOF (VTR) |
| ⊕ | WATER METER |
| ⊕ | POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK |

DOMESTIC WATER BRANCH PIPE SIZE SCHEDULE

| | |
|----------------------------|---------------|
| 2 TO 3 LAV, EWC, OR SH | 3/4" HW, CW |
| 4 TO 6 LAV, EWC, OR SH | 1" HW, CW |
| 2 TO 3 FLUSH VALVE WC OR U | 1-1/2" CW |
| 4 TO 8 FLUSH VALVE WC OR U | 2" CW |
| OVER 8 FLUSH VALVE WC OR U | REFER TO PLAN |

FIRE SPRINKLER NOTES:

- SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETE DESIGN BUILD FIRE SPRINKLER SYSTEM.
- THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 13) AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU, AND THE OWNER'S INSURANCE UNDERWRITER.
- THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER HEADS, VALVES, ESCUTCHEONS, PIPING, FITTINGS, HANGERS, DRAINS, WET TEST CONNECTIONS, SIGNS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
- ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UNDERWRITERS LABORATORIES, INC., "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS," OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
- SPRINKLER HEADS SHALL BE PROVIDED AS REQUIRED AND CONFORM TO THE LATEST EDITION OF THE NFPA 13, AND CITY REQUIREMENTS.
- PIPING, PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
- INSTALL HEADS AT FINISHED HEIGHT WITH ESCUTCHEON.
- COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING, AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
- AFTER SYSTEM IS COMPLETELY INSTALLED, IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE REQUIREMENTS OF THE APPLICABLE NFPA BULLETINS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. APPROVED DRAWINGS SHALL THEN BE SUBMITTED TO THE ARCHITECT FOR REVIEW OF COMPLIANCE WITH DESIGN INTENT.
- THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF ALL DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
- ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED AS REQUIRED AND CONFORM TO THE LATEST EDITION OF NFPA 13.
- ADDITIONAL PIPING, PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
- ALL SPRINKLER HEADS AND ESCUTCHEONS SHALL HAVE MOUNTING TYPE (FLUSH OR SEMI-RECESSED), FINISH AND COLOR AS SELECTED BY ARCHITECT.
- ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING GRID, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF DRAWINGS TO FIRE DEPARTMENT.

PLUMBING INDEX

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| P2.1 | PLUMBING RCP PLAN (OPS) |
| P3.0 | PLUMBING DETAILS |