

MECHANICAL 4th FLOOR PLAN
SCALE: 1/8" = 1'-0" (APPROX)

KEYNOTES

- 1 AIR CONDITIONING UNIT (PTAC-1) (WINDOW TYPE) INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, PROVIDE REMOTE MOUNTED THERMOSTAT IN ACCORDANCE WITH HOLIDAY INN REQUIREMENTS.
- 2 EXHAUST FAN (EF-1), IN CEILING WITH MANUAL HALL SWITCH, FIELD ROUTE 4" ROUND STEEL EXHAUST SUB-DUCT TO RATED 12"x12" (INSIDE CLEAR) EXHAUST SHAFT. SEE EXHAUST SHAFT DETAIL ON SHEET M-0 FOR SHAFT PENETRATION DETAIL. SEE ARCHITECTURAL PLANS FOR EXACT SHAFT LOCATION AND CONSTRUCTION DETAILS.
- 3 EXHAUST FAN (EF-1), IN CEILING WITH MANUAL HALL SWITCH, FIELD ROUTE 4" ROUND STEEL EXHAUST SUB-DUCT TO RATED 12"x12" (INSIDE CLEAR) EXHAUST SHAFT. SEE EXHAUST SHAFT DETAIL ON SHEET M-0 FOR SHAFT PENETRATION DETAIL. SEE ARCHITECTURAL PLANS FOR EXACT SHAFT LOCATION AND CONSTRUCTION DETAILS.
- 4 ROUTE 4" OSA SUPPLY DUCT WITH VOLUME DAMPER TO 6"x6" CD-2 AND BALANCE TO 40 CFM. DUCT TO BE CONSTRUCTED OF GALVANIZED SHEET METAL (STEEL), MINIMUM 24 GAUGE. PENETRATION OF RATED ASSEMBLY TO BE PROTECTED AS A THROUGH PENETRATION IN ACCORDANCE WITH IMC SECTION 712. FIRESTOPPING MATERIAL TO BE TESTED IN ACCORDANCE WITH ASTM E 119, ASTM E 814 OR UL 1479. VERIFY REQUIREMENTS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 5 DUCTLESS AIR HANDLER (DAH-#), INSTALL PER MANUFACTURERS RECOMMENDATIONS, PROVIDE LIQUID/ SUCTION PIPING, SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS, FIELD ROUTE TO CORRESPONDING CONDENSING UNIT ON ROOF.
- 6 36"x18" (INSIDE CLEAR) OUTSIDE AIR SUPPLY SHAFT. SEE ARCHITECTURAL PLANS FOR EXACT SHAFT LOCATION/CONSTRUCTION DETAILS. PROVIDE AN ACCESSIBLE COMBINATION FIRE/SMOKE DAMPER AT ALL PENETRATIONS OF THE RATED SHAFT ASSEMBLY.
- 7 AIR HANDLING UNIT (AH-#) MOUNTED WITH SPRING TYPE VIBRATION ISOLATORS ON/ WITH RETURN AIR PLENUM WITH FULL SIZE DUCTS AND FLEX CONNECTORS. PROVIDE FULL-SIZE ACCESS PANEL WHERE LOCATED ABOVE HARD-LID CEILING. PROVIDE LIQUID/ SUCTION PIPING, SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS, FIELD ROUTE TO CORRESPONDING CONDENSING UNIT ON ROOF. DUCT SMOKE DETECTOR IN RETURN DUCT, INTERLOCK WITH AIR MOVING EQUIPMENT TO SHUT UNIT DOWN ON ACTIVATION.
- 8 6" X 6" CD-2, 6" ROUND NECK, 4-WAY THROW.
- 9 12" X 12" CD-2, 10" ROUND NECK, 4-WAY THROW.
- 10 24" X 24" CD-1, 6" ROUND NECK.
- 11 24" X 24" CD-1, 8" ROUND NECK.
- 12 24" X 24" CD-1, 10" ROUND NECK.
- 13 24" X 24" CD-1, 12" ROUND NECK.
- 14 24" X 12" RG-1, 12" ROUND NECK.
- 15 24" X 24" RG-1, 18" ROUND NECK.
- 16 14" X 14" RG-2, 12" ROUND NECK.
- 17 12" X 12" OUTSIDE AIR INTAKE LOUVER (L-1) WITH BIRD SCREEN, FIELD ROUTE 6" ROUND DUCT TO RETURN DUCT WITH VOLUME DAMPER AND BALANCE TO CFM RATE INDICATED ON PLANS.
- 18 14" X 6" 5/8", 8" ROUND BRANCH DUCT WITH FULL SIZE DUCT CONNECTION TO DIFFUSER.
- 19 18" X 6" 5/8", 10" ROUND BRANCH DUCT WITH FULL SIZE DUCT CONNECTION TO DIFFUSER.
- 20 18" X 6" 5/8", 12" ROUND BRANCH DUCT WITH FULL SIZE DUCT CONNECTION TO DIFFUSER.
- 21 24" X 24" RG-2, 18" ROUND NECK.
- 22 18" X 12" OUTSIDE AIR INTAKE LOUVER (L-1) WITH BIRD SCREEN, FIELD ROUTE TO RETURN DUCT WITH VOLUME DAMPER AND BALANCE TO CFM RATE INDICATED ON PLANS.
- 23 4" ROUND DRYER VENT FROM DRYER VENT BOX TO WALL, CAP WITH BACKDRAFT DAMPER (NOT TO EXCEED 25' IN LENGTH WITH 5' PER 90° ELBOW). FIELD COORDINATE INSTALLATION WITH EQUIPMENT MANUFACTURER REQUIREMENTS.
- 24 EXHAUST FAN (EF-#), IN CEILING WITH FULL SIZE DUCT THRU ROOF TO CAP. MINIMUM OF 10' FROM OUTSIDE AIR INTAKE. FAN TO RUN CONTINUOUSLY UNO.
- 25 CONCENTRIC INTAKE/EXHAUST AT GAS WATER HEATER. INSTALL PER MANUFACTURERS REQUIREMENTS. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 26 4"-0" LD-1, 10" ROUND BRANCH DUCT TO PLENUM BOX.
- 27 6"-0" LD-1, 12" ROUND BRANCH DUCT TO PLENUM BOX.
- 28 4"-0" LR-1, 10" ROUND BRANCH DUCT TO PLENUM BOX.
- 29 12" X 24" TG-1 WITH 12" X 12" TRANSFER DUCT WITH 1/2" DUCT INSULATION TO 12" X 24" TG-1 WITH MINIMUM OF 1 ELBOW.
- 30 12" X 24" TG-1 WITH 12" X 12" TRANSFER DUCT WITH 1/2" DUCT INSULATION TO 12" X 12" TG-1 WITH MINIMUM OF 1 ELBOW.
- 31 4" ROUND OSA SUPPLY DUCT UP/DOWN TO/ FROM ADJACENT LEVEL. SEE SHEET M-1/M-2 FOR CONTINUATION.
- 32 24" X 24" MALL LOUVER (L-1) WITH MOTORIZED DAMPER. DAMPER TO BE NORMALLY CLOSED AND TO OPEN UPON ACTIVATION OF ANY DRYER.
- 33 16" X 16" RG-2, 14" ROUND NECK.
- 34 6" ROUND DRYER VENT TO WALL, CAP WITH BACKDRAFT DAMPER, FIELD VERIFY REQUIREMENTS WITH ACTUAL DRYER UNITS BEING SUPPLIED.

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET.

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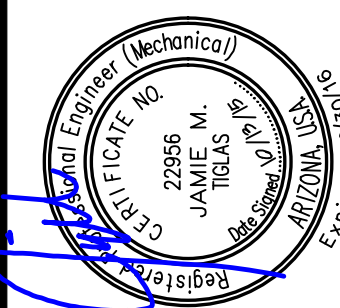
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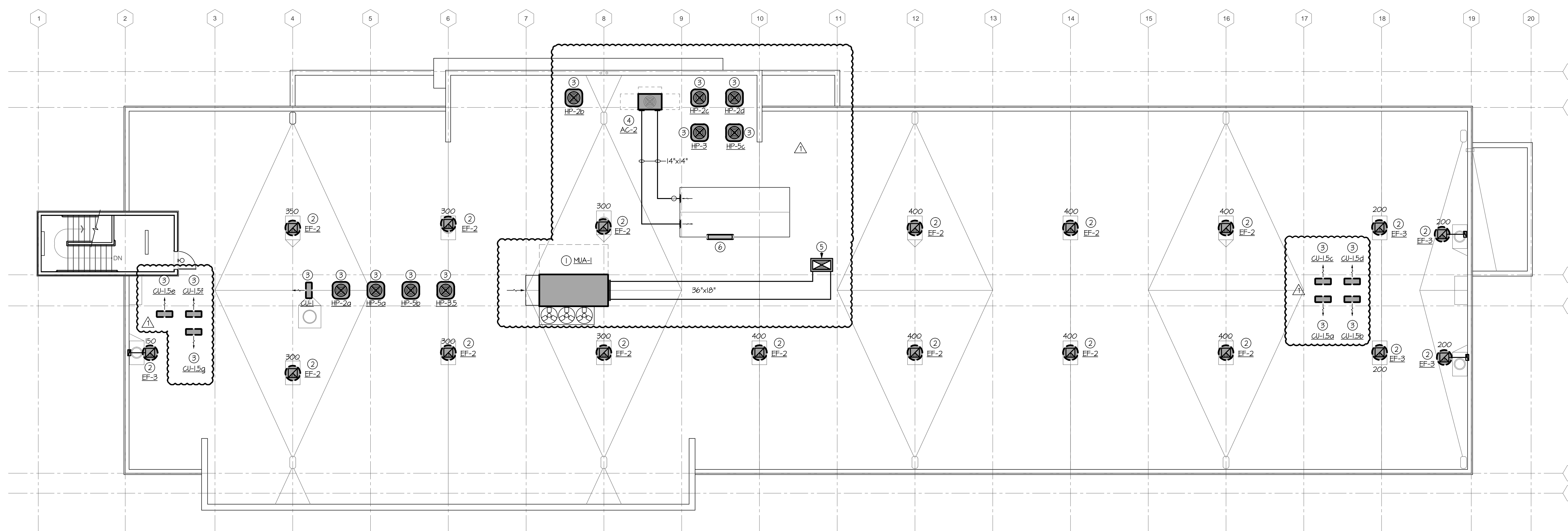
MECHANICAL
4TH FLOOR PLAN

M-4



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MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0" (APPROX)

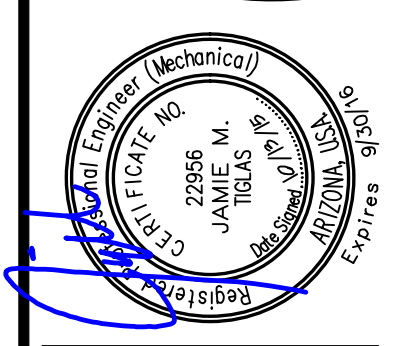
KEYNOTES

- 1 100% OUTSIDE AIR UNIT (MAU-1) MOUNTED ON FACTORY ROOF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. OSA INTAKE TO BE LOCATED MINIMUM 10' FROM ANY EXHAUST FAN OUTLET OR SEWER VENT. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 2 EXHAUST FAN (EF-#) ON FACTORY ROOF CURB WITH FULL SIZE DUCT THRU ROOF WITH FLEXIBLE CONNECTION. FAN TO BE LOCATED A MINIMUM OF 36" FROM VERTICAL WALLS AND 120" FROM ANY OSA INTAKES, BALANCE TO CFM RATE INDICATED ON PLANS.
- 3 CONDENSING UNIT (HP-#/CU-#) MOUNTED ON PAD WITH SPRING TYPE VIBRATION ISOLATORS. PROVIDE LIQUID/ SUCTION PIPING, SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, FIELD ROUTE TO CORRESPONDING AIR-HANDLING UNITS.
- 4 AIR CONDITIONING UNIT (AC-2) MOUNTED ON FACTORY ROOF CURB WITH FULL SIZE DUCTS THRU ELEVATOR SHAFT WITH FLEX CONNECTORS. EXPOSED DUCTWORK TO BE INTERNALLY LINED WITH INSULATION, NOT EXTERNALLY WRAPPED. DIMENSIONS INDICATED ON PLANS ARE INSIDE CLEAR. DUCT SMOKE DETECTOR IN RETURN DUCT, INTERLOCK WITH AIR MOVING EQUIPMENT TO SHUT UNIT DOWN ON ACTIVATION.
- 5 36"x18" (INSIDE CLEAR) OUTSIDE AIR SUPPLY SHAFT. SEE ARCHITECTURAL PLANS FOR EXACT SHAFT LOCATION/CONSTRUCTION DETAILS. SEE SHEET M-4 FOR CONTINUATION.
- 6 48" X 30" LOUVER (L-1) WITH BIRD SCREEN. PROVIDE MOTORIZED DAMPER TIED TO DUCT SMOKE DETECTOR AT AC-2 TO OPEN UPON ACTIVATION.

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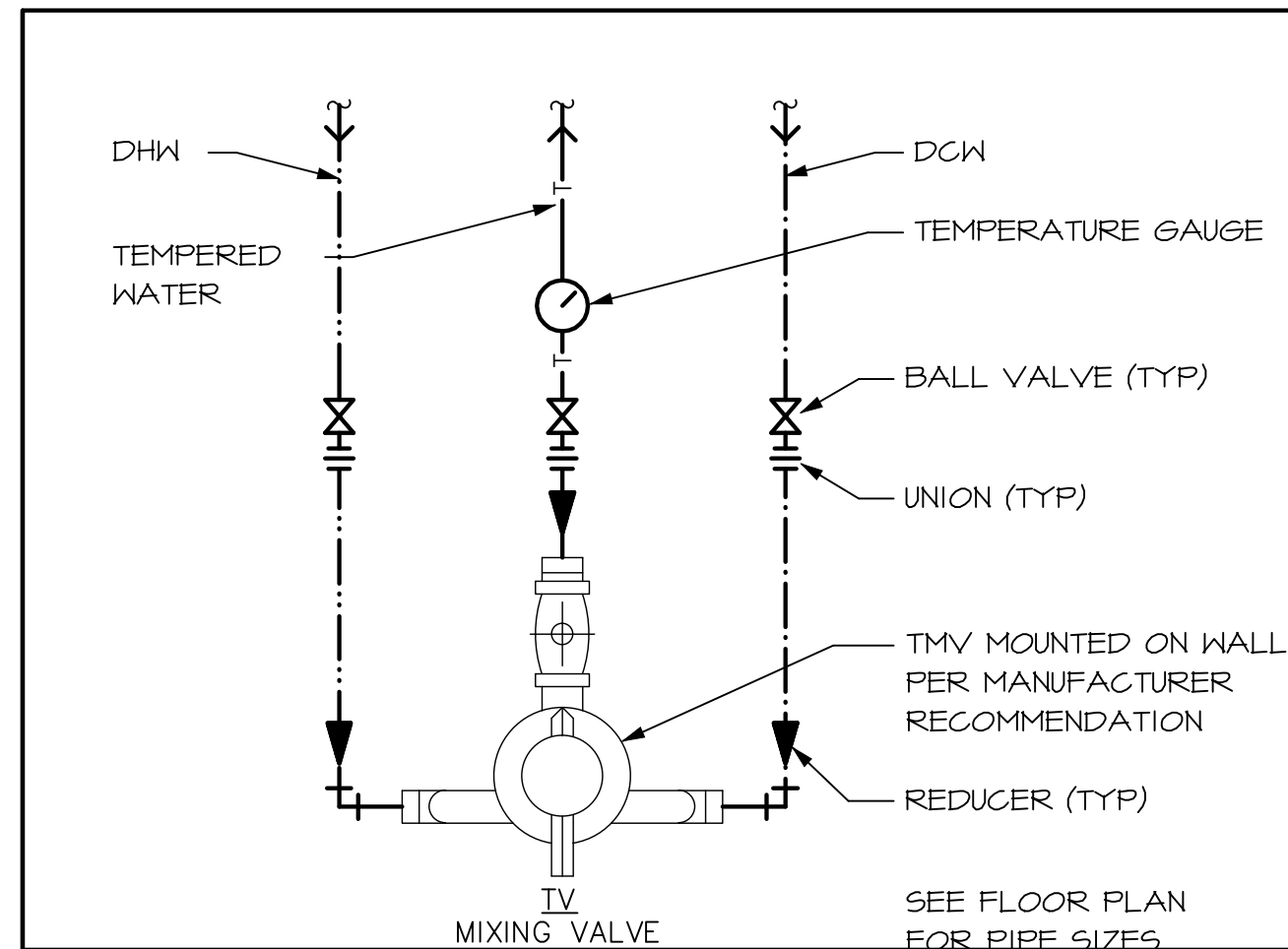


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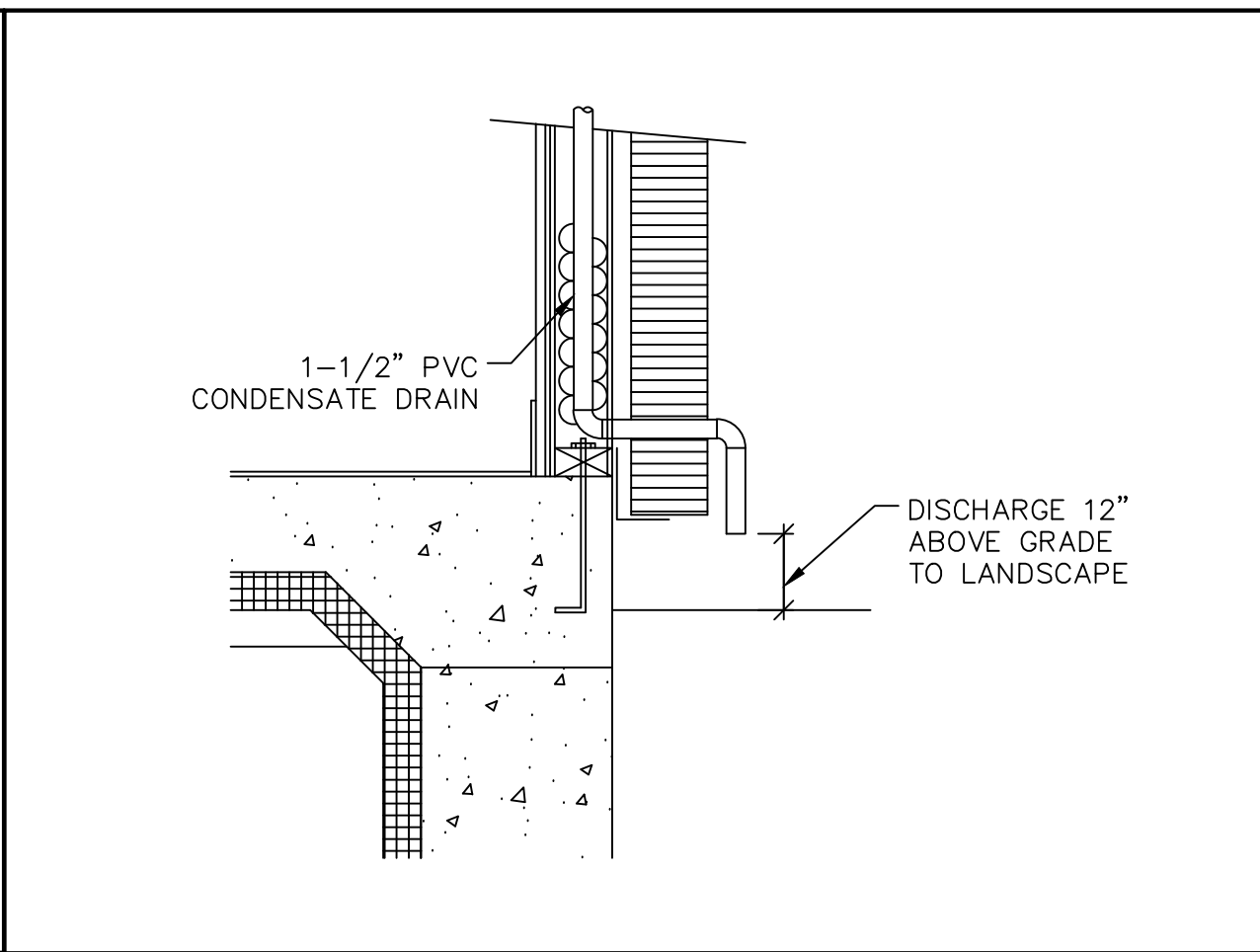


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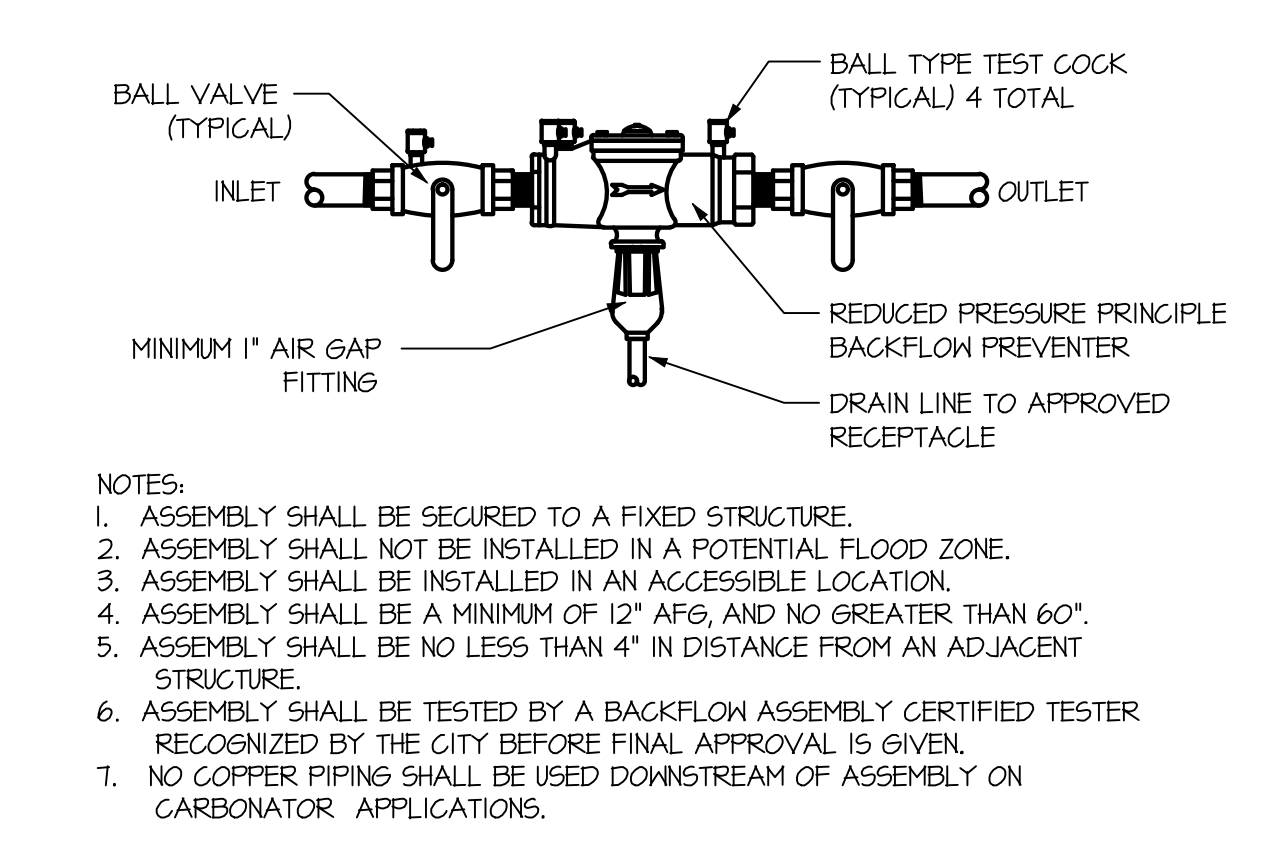
MECHANICAL
 5TH FLOOR PLAN



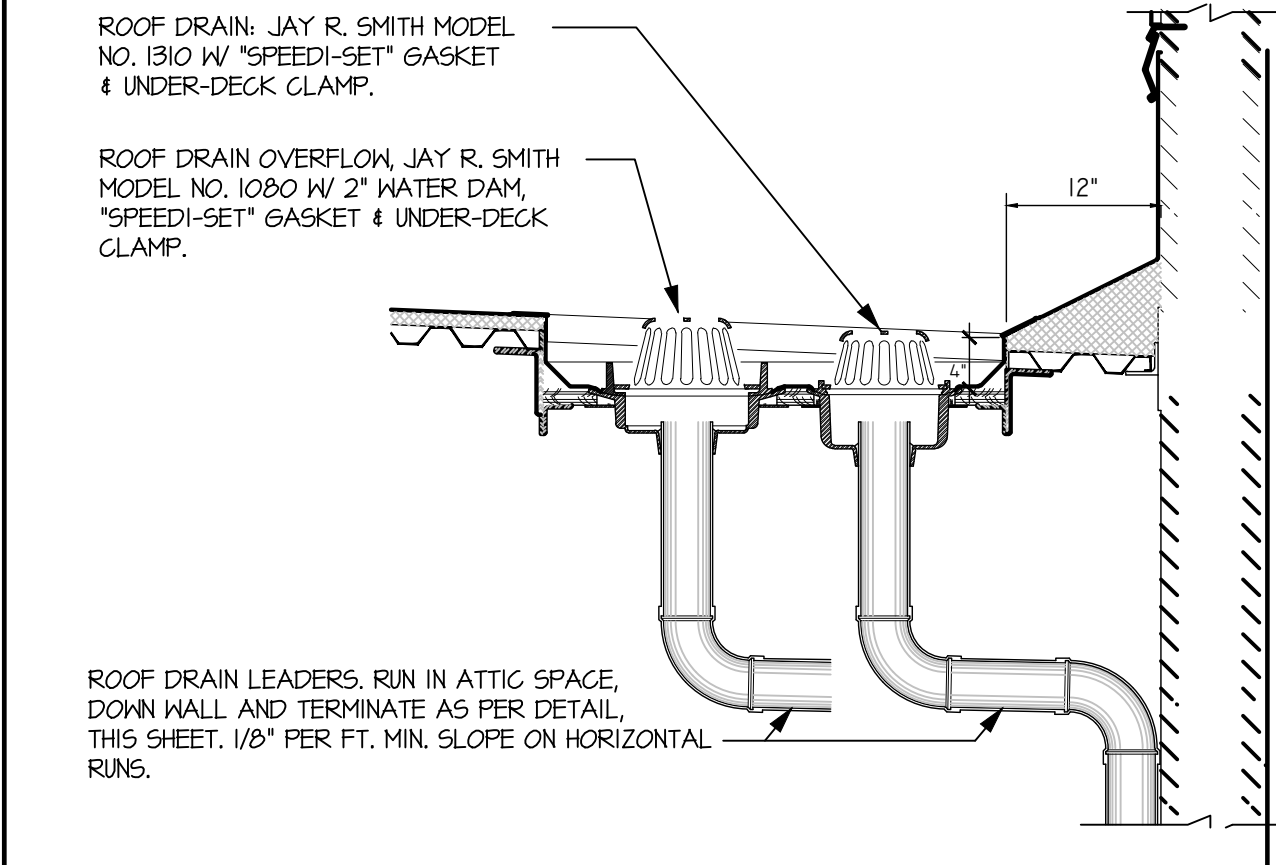
PO.2 TEMPERING VALVE SCALE: N.T.S.



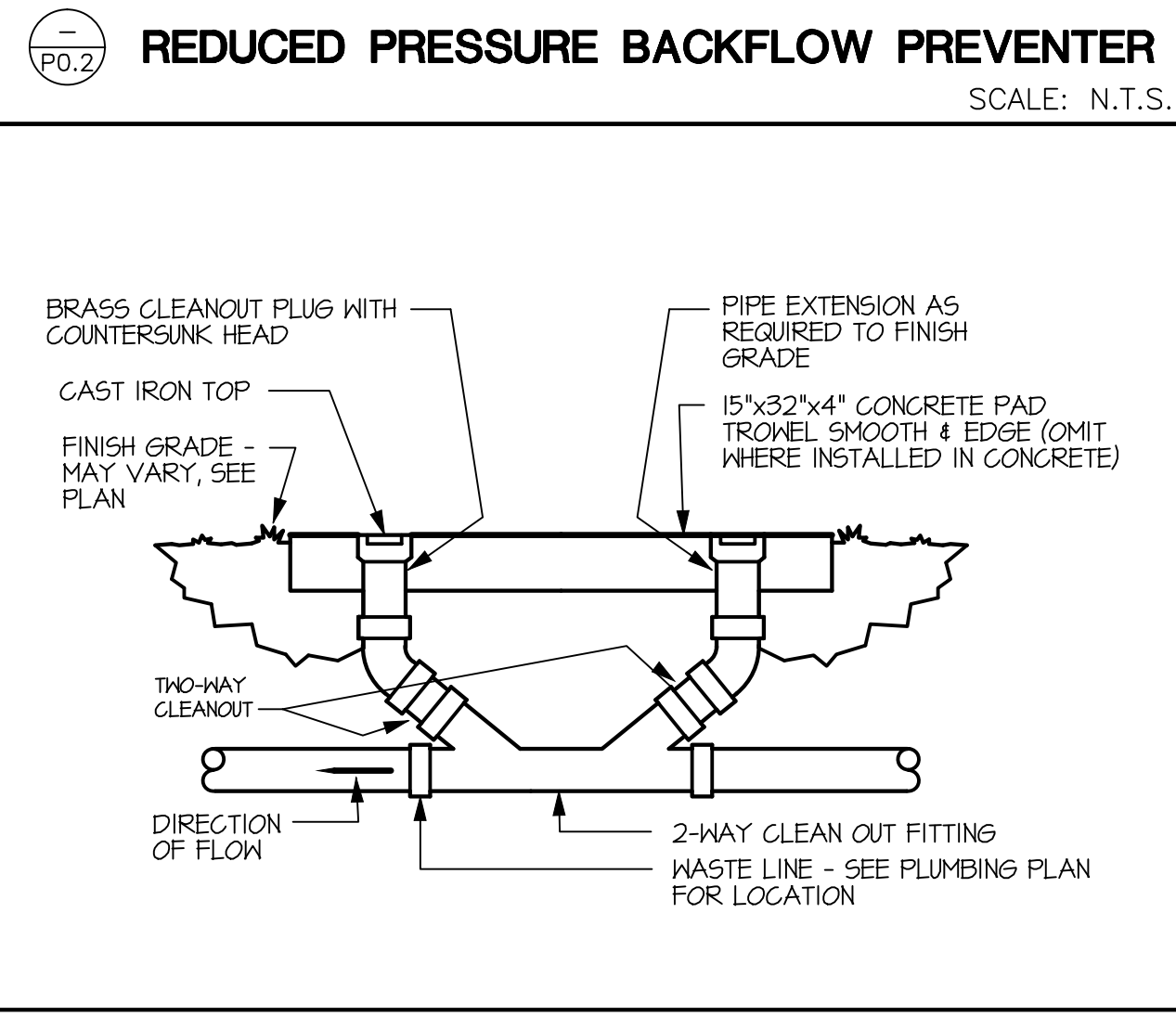
PO.2 CONDENSATE DRAIN AT EXTERIOR WALL SCALE: N.T.S.



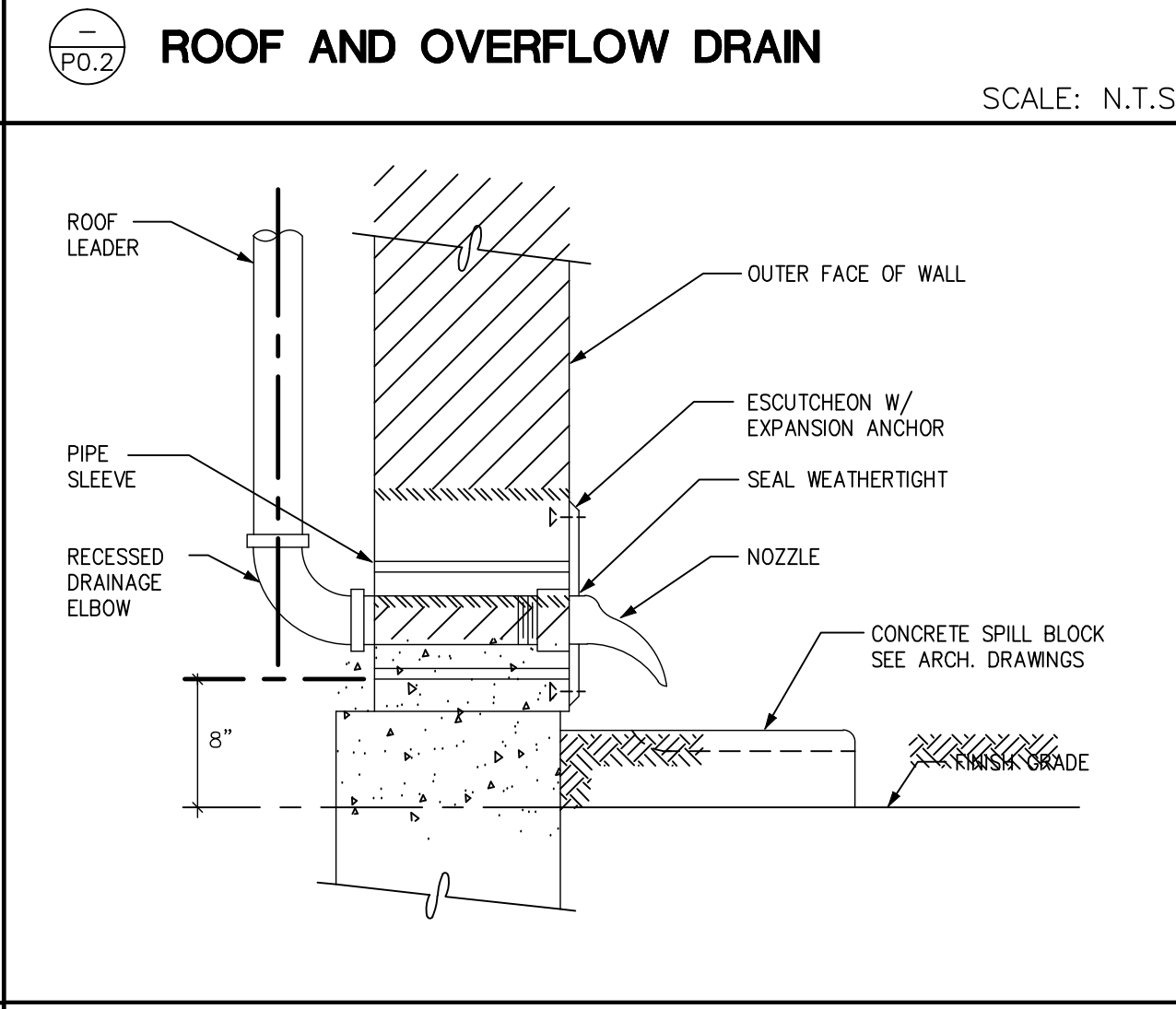
PO.2 REDUCED PRESSURE BACKFLOW PREVENTER SCALE: N.T.S.



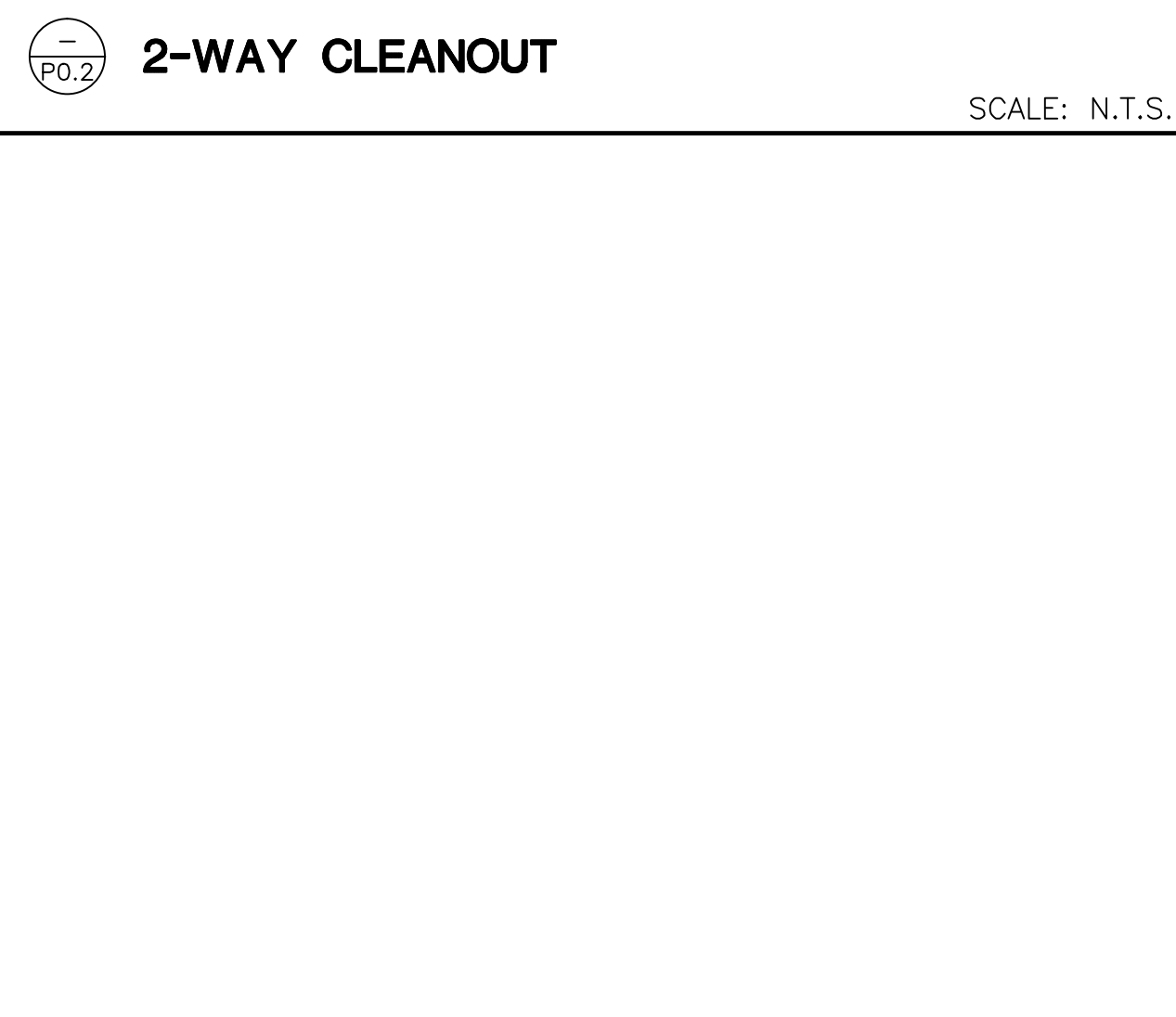
PO.2 ROOF AND OVERFLOW DRAIN SCALE: N.T.S.



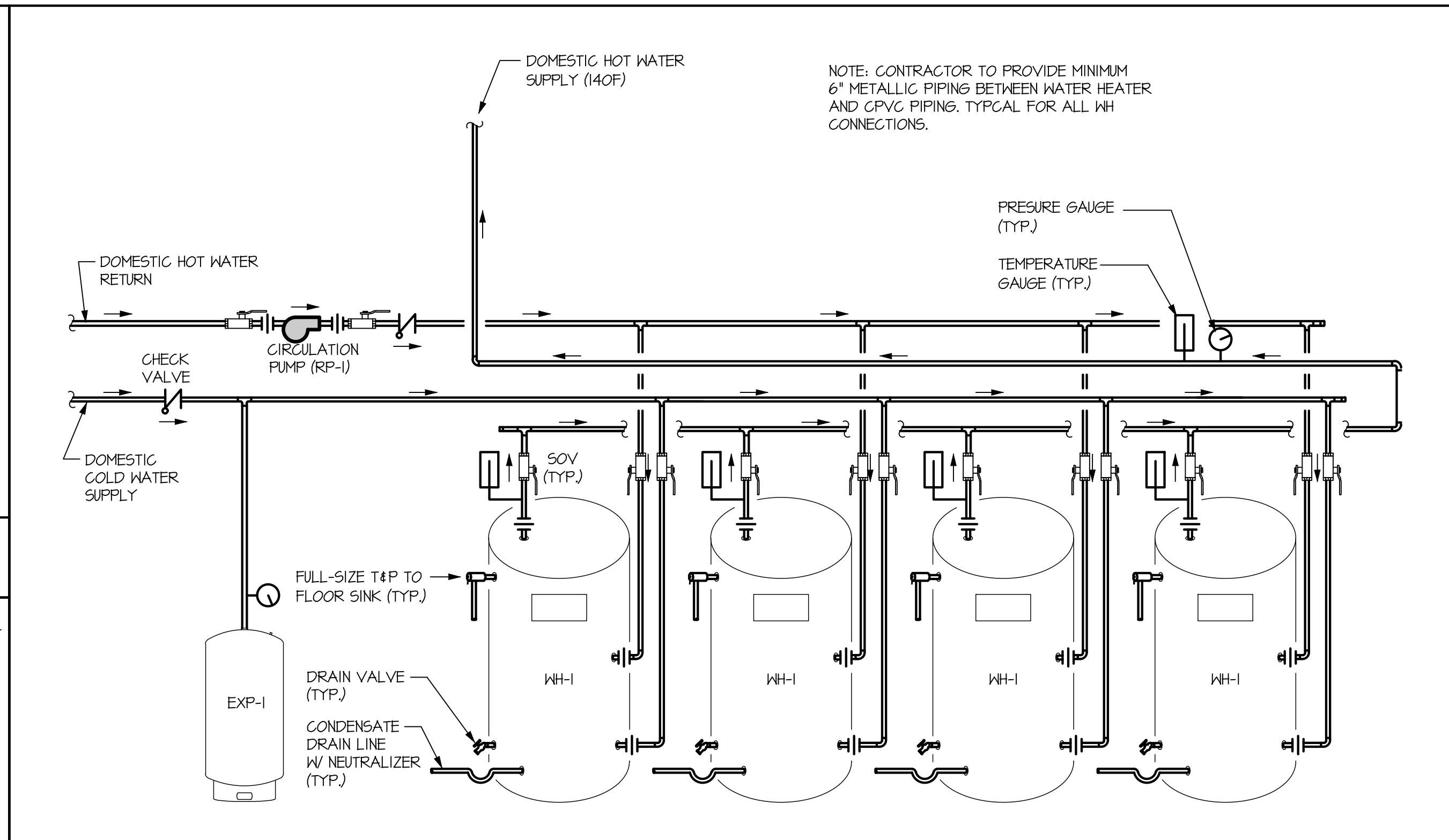
PO.2 2-WAY CLEANOUT SCALE: N.T.S.



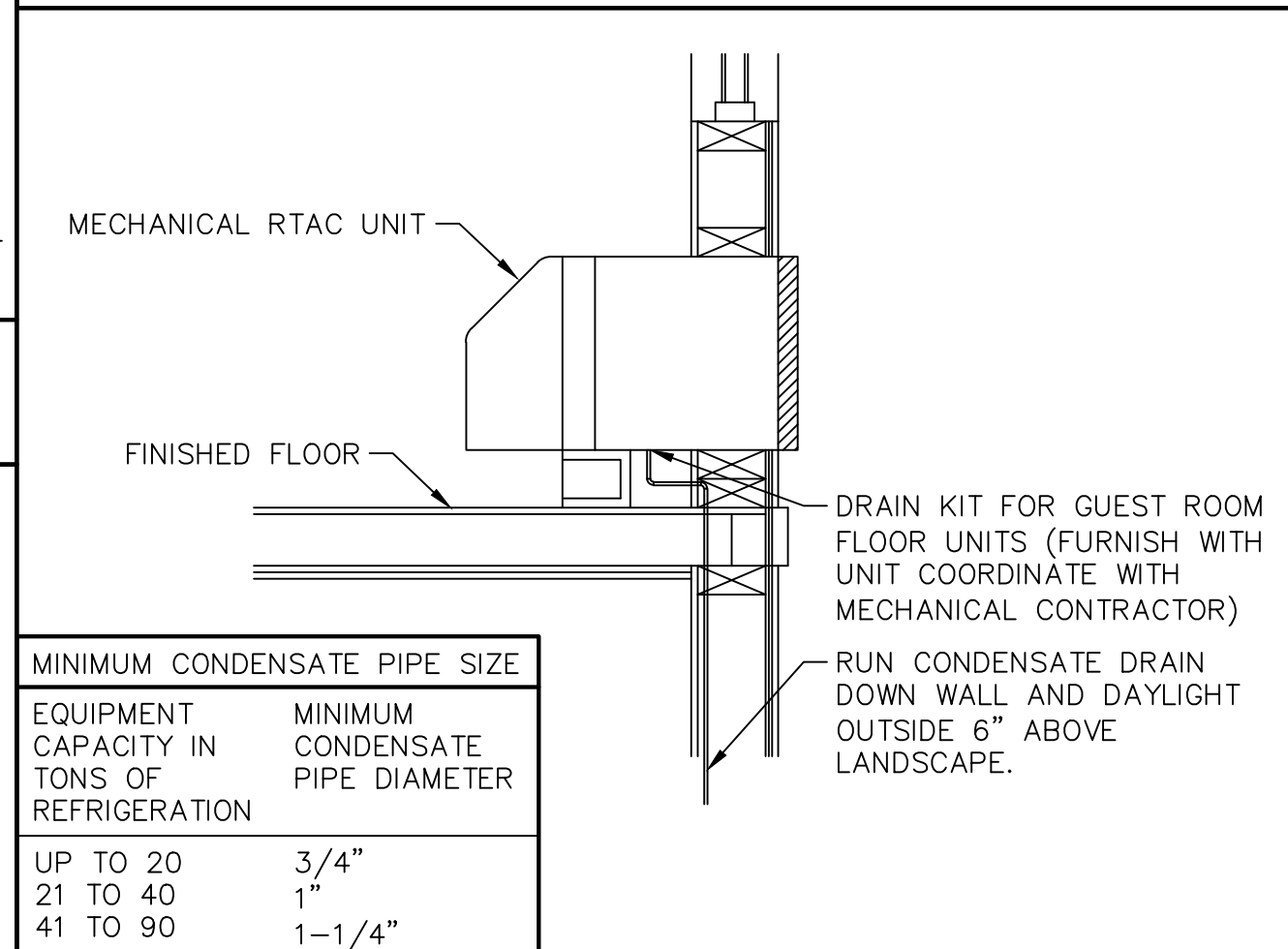
PO.2 DOWNSPOUT DETAIL SCALE: N.T.S.



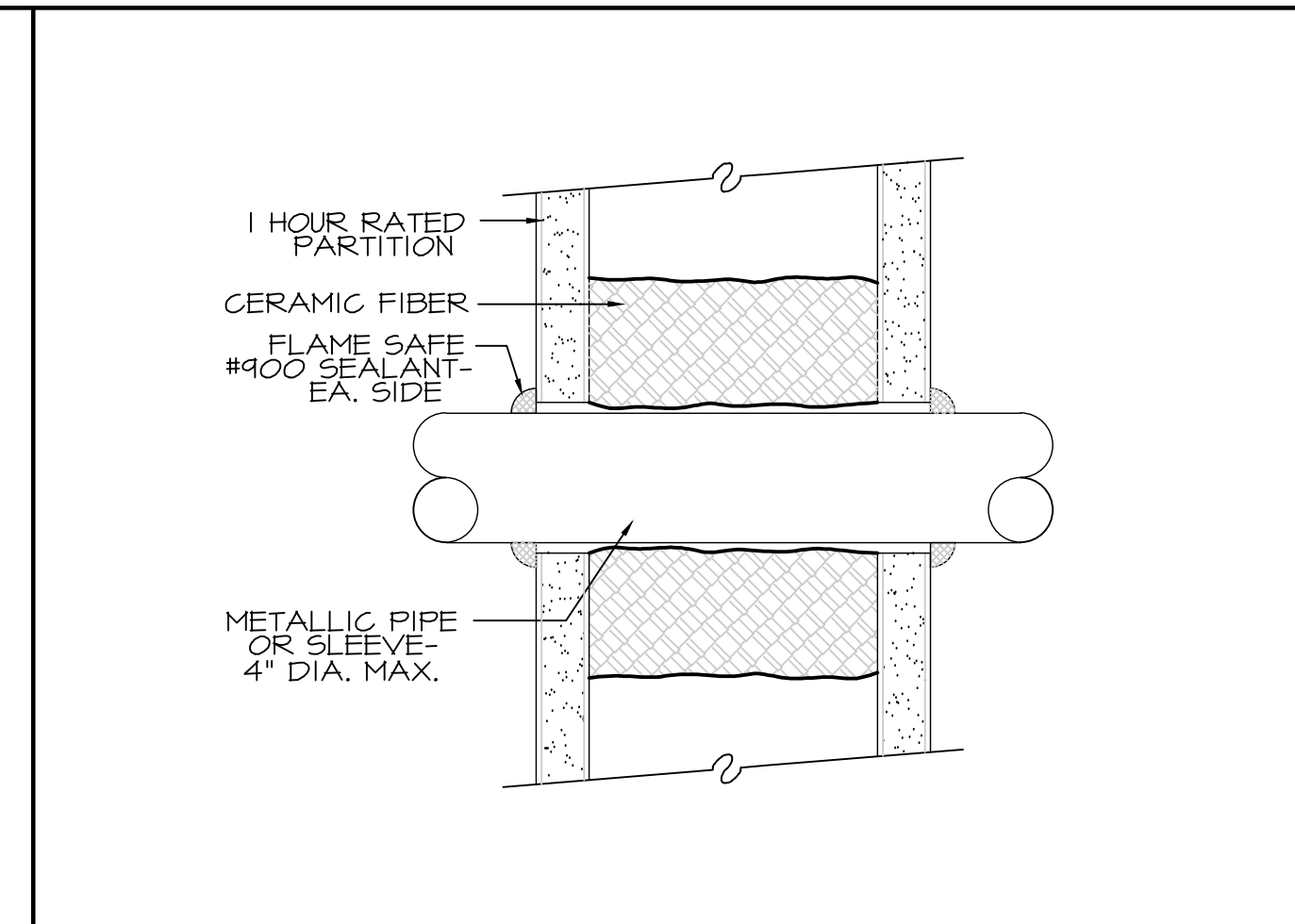
PO.2 GAS DIRT LEG WITH SOV DETAIL SCALE: N.T.S.



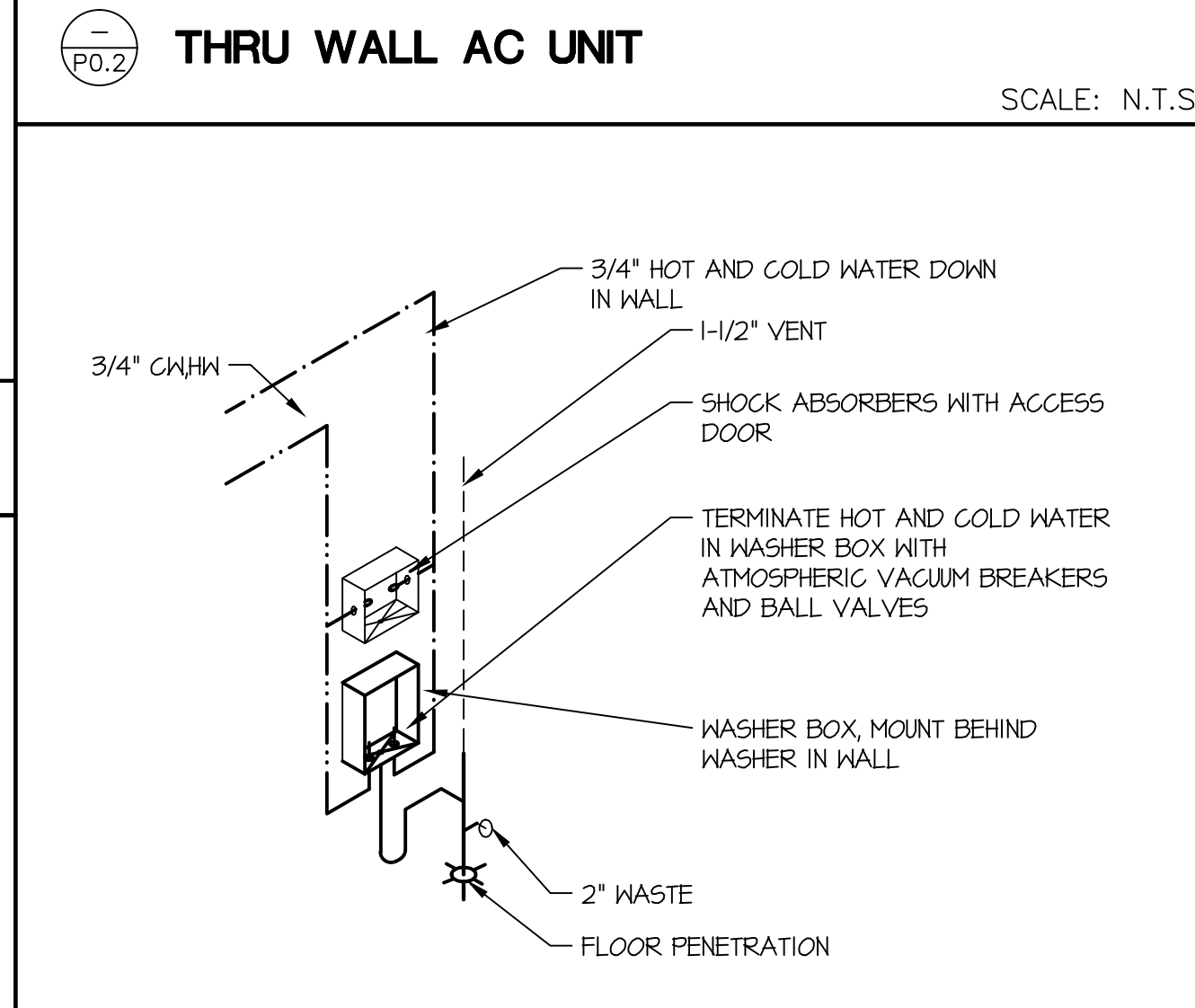
PO.2 WATER HEATER PIPING DETAIL SCALE: N.T.S.



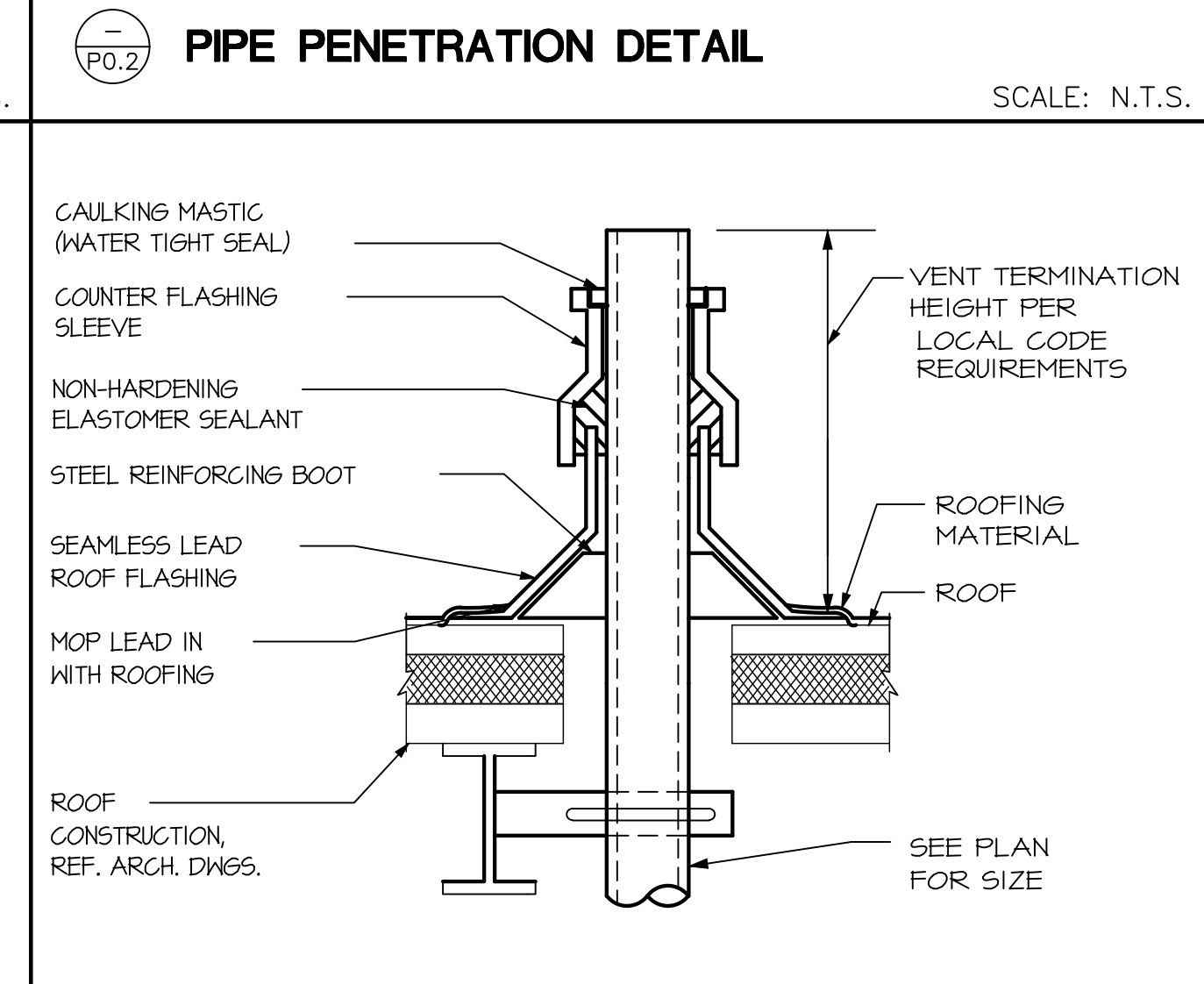
PO.2 THRU WALL AC UNIT SCALE: N.T.S.



PO.2 PIPE PENETRATION DETAIL SCALE: N.T.S.



PO.2 WASHER BOX SCALE: N.T.S.



PO.2 TYPICAL VENT OR PIPE THRU ROOF SCALE: N.T.S.

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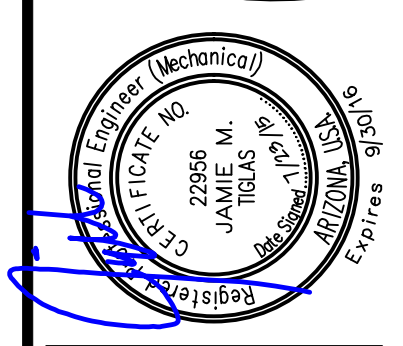
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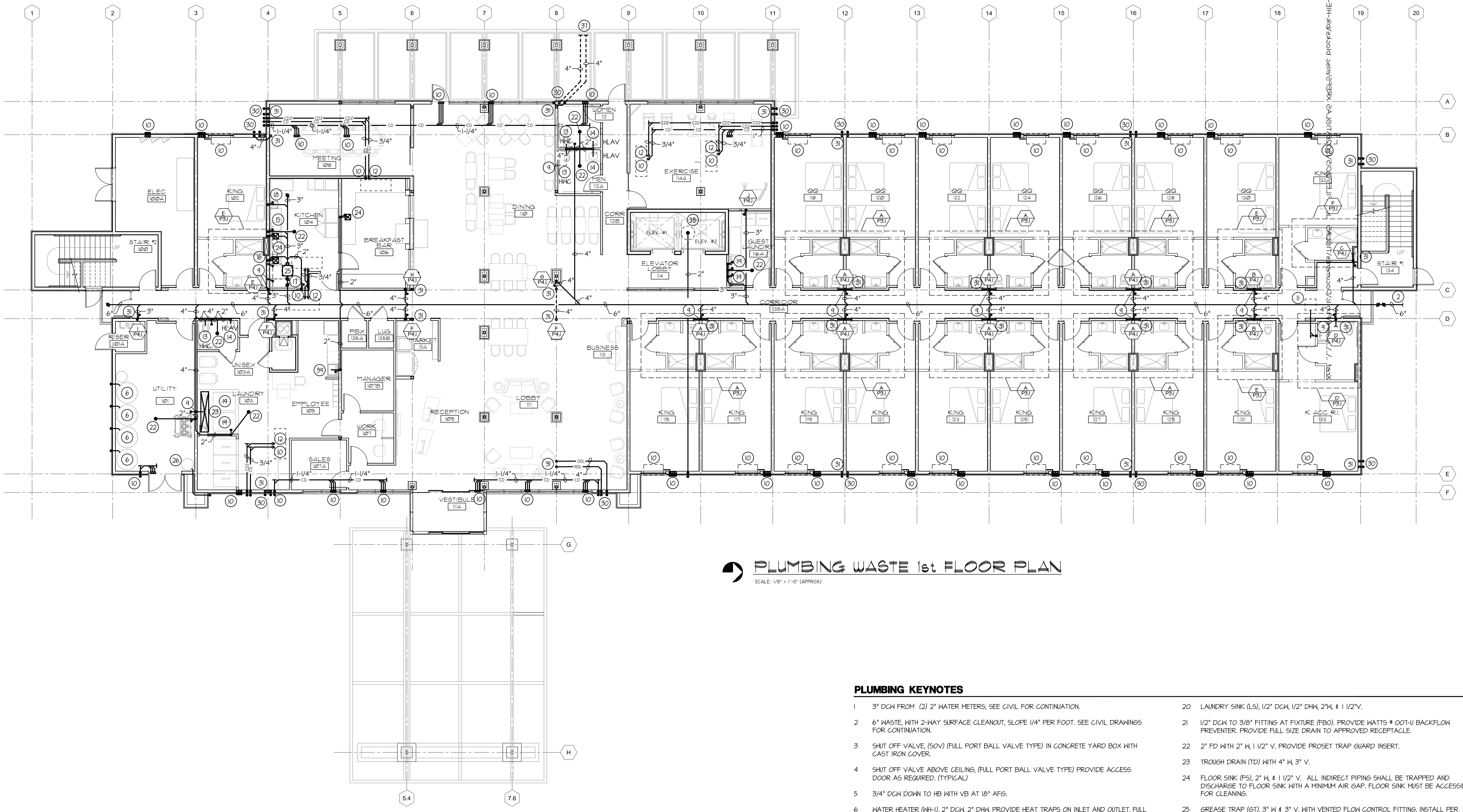
PLUMBING
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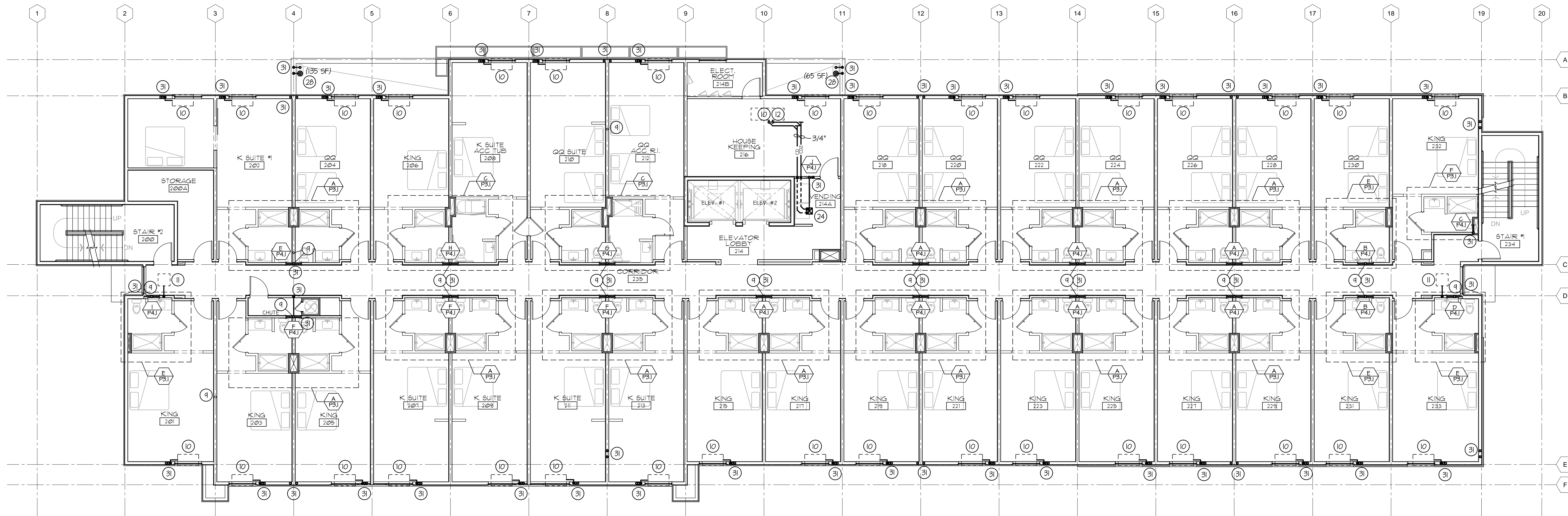
PLUMBING WASTE 1st FLOOR PLAN
SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

- 1 3" DGN FROM (2) 2" WATER METERS, SEE CIVIL FOR CONTINUATION.
 - 2 6" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - 3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.
 - 4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED. (TYPICAL)
 - 5 3/4" DGN DOWN TO HB WITH VB AT 18" AFG.
 - 6 WATER HEATER (WH-1), 2" DGN, 2" DHN, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO ELL' AT 6" AFG.
 - 7 RECIRCULATING PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 8 EXPANSION TANK (EXP) 1 1/4" CONNECTION, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 - 9 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.
 - 10 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO ELL' DOWN AT 6" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).
 - 11 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO ELL' AT LAVATORY TAILPIECE.
 - 12 AIR CONDITIONING COIL, SECONDARY DRAIN PAN ROUTE 3/4" CONDENSATE DRAIN TO SLOPE AT 1/8" PER FOOT TO ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).
 - 13 WATER CLOSET (WC), 1-1/2" DGN, 3" W, 2" V.
 - 14 LAVATORY (H-LAV), 1/2" DGN, 1/2" DHN, 2" W, 1 1/2" V.
 - 15 3-COMPARTMENT SINK (SK-3), 1/2" DGN, 1/2" DHN, ROUTE ALL 3 COMPARTMENTS 2" W INDIRECTLY WASTED TO FLOOR SINK WITH AIR GAP.
 - 16 PREP SINK (SK-1), 1/2" DGN, 1/2" DHN, 2" W (WITH AIR GAP).
 - 17 MOP SINK (MS), 3/4" DGN, 3/4" DHN, 3" W, 2" V. PROVIDE 3/4" WATTS OORGT BACKFLOW PREVENTER FOR CHEMICAL SYSTEM (FBO).
 - 18 HAND SINK (HS), 1/2" DGN, 1/2" DHN, 2" W, 1 1/2" V.
 - 19 WASHING MACHINE (WB), 3/4" DGN, 3/4" DHN, 2" W, PROVIDE WATER HAMMER ARRESTOR (WHA-A), IN LOCKING ACCESS DOOR.
 - 20 LAUNDRY SINK (LS), 1/2" DGN, 1/2" DHN, 2" W, 1 1/2" V.
 - 21 1/2" DGN TO 3/8" FITTING AT FIXTURE (FBO). PROVIDE WATTS # OOT-U BACKFLOW PREVENTER, PROVIDE FULL SIZE DRAIN TO APPROVED RECEPTACLE.
 - 22 2" FD WITH 2" W, 1 1/2" V. PROVIDE PROSET TRAP GUARD INSERT.
 - 23 TROUGH DRAIN (TD) WITH 4" W, 3" V.
 - 24 FLOOR SINK (FS), 2" W, 1 1/2" V. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP. FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING.
 - 25 GREASE TRAP (GT), 3" W & 3" V, WITH VENTED FLOW CONTROL FITTINGS, INSTALL PER LOCAL CODE REQUIREMENTS.
 - 26 STUB-OUT FOR WATER SOFTENER (FBO), PROVIDE BYPASS VALVES, ETC PER MANUFACTURERS RECOMMENDATIONS.
 - 27 DOMESTIC WATER BOOSTER PUMP (BP), 3" DGN, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 28 3" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.
 - 29 4" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.
 - 30 RD LEADER (RDL) AND OD LEADER (ODL) DOWN IN WALL TO DOWNSPOUT NOZZLE (DN) AT 18" AFG.
 - 31 PIPING UP/ DOWN TO/ FROM SECOND FLOOR.
 - 32 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.
 - 33 PROVIDE GAS COCK, UNION AND DIRT LEGS, TYPICAL.
 - 34 TEMPERING VALVE (TV), 2" DGN, 2" DHN, 2" TH, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 35 SUMP PUMP (SP), PROVIDE 24" RD, SUMP WITH COVER, FIELD ROUTE 2" W UP & ELL' THRU WALL.
 - 36 SWIMMING POOL EQUIPMENT 1" DGN MAKE UP WATER SUPPLY WITH BACKFLOW PREVENTER (RFBP), FIELD ROUTE AND VERIFY EXACT LOCATION.
 - 37 4" RD LEADER (RDL) AND 4" OD LEADER (ODL) ROUTED IN PATIO SLAB TO TERMINATE TO DAYLIGHT AT FACE OF CURB, SEE ARCHITECT FOR EXACT LOCATION.
 - 38 THERMAL EXPANSION LOOPS.
 - 39 BAR SINK (BS), 1/2" DGN, 1/2" DHN, 2" W, 1 1/2" V.
- NOTE: NOT ALL KEYNOTES MAY BE USED.

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PLUMBING WASTE 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

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| <p>1 3" DCM FROM (2) 2" WATER METERS, SEE CIVIL FOR CONTINUATION.</p> <p>2 6" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.</p> <p>3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.</p> <p>4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED, (TYPICAL).</p> <p>5 3/4" DCM DOWN TO HB WITH YB AT 18" AFG.</p> <p>6 WATER HEATER (WH), 2" DCM, 2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT 6" AFG.</p> <p>7 RECIRCULATING PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>8 EXPANSION TANK (EXP) 1/4" CONNECTION, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.</p> <p>9 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.</p> <p>10 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 6" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>11 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>12 AIR CONDITIONING COIL, SECONDARY DRAIN FAN ROUTE 3/4" CONDENSATE DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>13 WATER CLOSET (WC), 1-1/2" DCM, 3" W, 2" V.</p> <p>14 LAVATORY (H-LV), 1/2" DCM, 1/2" DHW, 1/2" W, 1 1/2" V.</p> <p>15 3-COMPARTMENT SINK (SK-3), 1/2" DCM, 1/2" DHW, ROUTE ALL 3 COMPARTMENTS 2" W INDIRECTLY WASTED TO FLOOR SINK WITH AIR GAP.</p> <p>16 PREP SINK (SK-1), 1/2" DCM, 1/2" DHW, 2" W (WITH AIR GAP).</p> <p>17 MOP SINK (MS), 3/4" DCM, 3/4" DHW, 3" W, 2" V. PROVIDE 3/4" WATTS OORGT BACKFLOW PREVENTER FOR CHEMICAL SYSTEM (FBO).</p> <p>18 HAND SINK (HS), 1/2" DCM, 1/2" DHW, 2" W, 1 1/2" V.</p> <p>19 WASHING MACHINE (WB), 3/4" DCM, 3/4" DHW, 2" W. PROVIDE WATER HAMMER ARRESTOR (WHA-A), IN LOCKING ACCESS DOOR.</p> | <p>20 LAUNDRY SINK (LS), 1/2" DCM, 1/2" DHW, 2" W, 1 1/2" V.</p> <p>21 1/2" DCM TO 3/8" FITTINGS AT FIXTURE (FBO). PROVIDE WATTS # 007-W BACKFLOW PREVENTER. PROVIDE FULL SIZE DRAIN TO APPROVED RECEPTAGE.</p> <p>22 2" FD WITH 2" W, 1 1/2" V. PROVIDE PROSET TRAP GUARD INSERT.</p> <p>23 TROUGH DRAIN (TD) WITH 4" W, 3" V.</p> <p>24 FLOOR SINK (FS), 2" W, 1 1/2" V. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP. FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING.</p> <p>25 GREASE TRAP (GT), 3" W, 4 3/4" V, WITH VENTED FLOW CONTROL FITTING, INSTALL PER LOCAL CODE REQUIREMENTS.</p> <p>26 STUB-OUT FOR WATER SOFTENER (FBO), PROVIDE BYPASS VALVES, ETC PER MANUFACTURERS RECOMMENDATIONS.</p> <p>27 DOMESTIC WATER BOOSTER PUMP (BP), 3" DCM, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>28 3" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>29 4" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>30 RD LEADER (RD) AND OD LEADER (OD) DOWN IN WALL TO DOWNSPOUT NOZZLE (DN) AT 18" AFG.</p> <p>31 PIPING UP/ DOWN TO/ FROM SECOND FLOOR.</p> <p>32 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.</p> <p>33 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.</p> <p>34 TEMPERING VALVE (TV), 2" DCM, 2" DHW, 2" TX, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>35 SUMP PUMP (SP), PROVIDE 24" RD. SUMP WITH COVER, FIELD ROUTE 2" W UP 4" 'ELL' THRU WALL.</p> <p>36 SKIMMING POOL EQUIPMENT 1" DCM MAKE UP WATER SUPPLY WITH BACKFLOW PREVENTER (RFBP). FIELD ROUTE AND VERIFY EXACT LOCATION.</p> <p>37 4" RD LEADER (RD) AND 4" OD LEADER (OD) ROUTED IN PATIO SLAB TO TERMINATE TO DAYLIGHT AT FACE OF CURB. SEE ARCHITECT FOR EXACT LOCATION.</p> <p>38 THERMAL EXPANSION LOOP(S).</p> <p>39 BAR SINK (BS), 1/2" DCM, 1/2" DHW, 2" W, 1 1/2" V.</p> |
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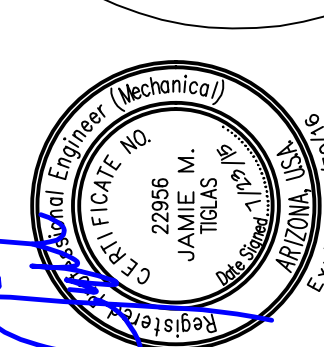
PLUMBING WASTE
2ND FLOOR PLAN

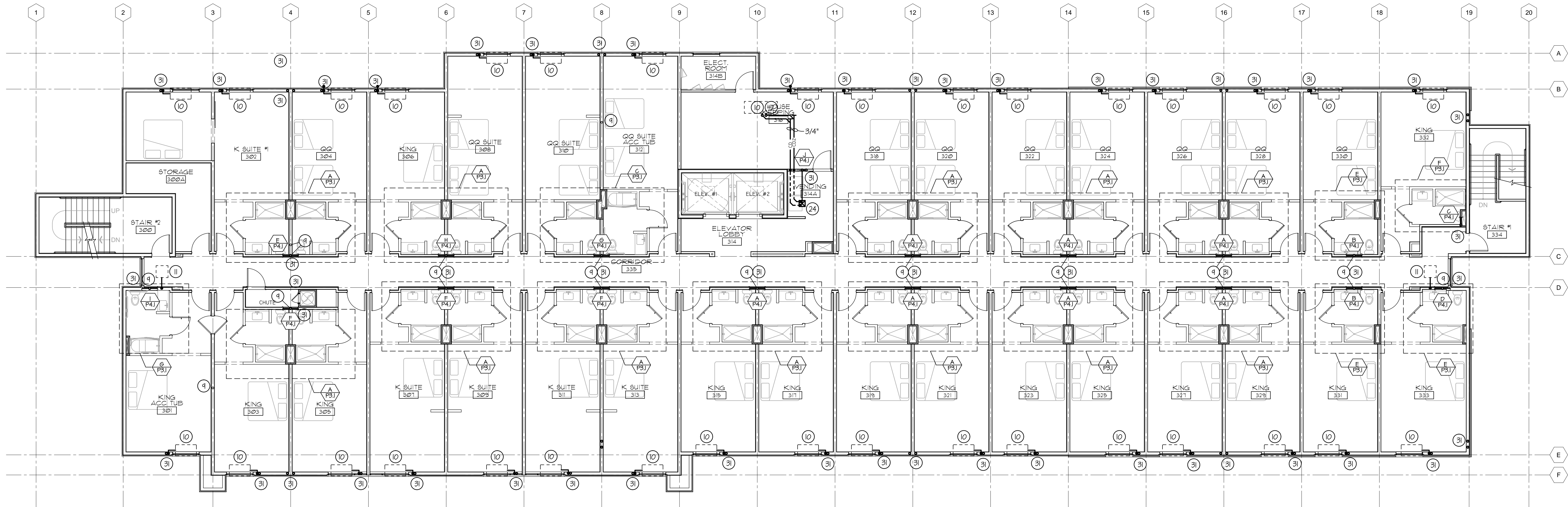
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PLUMBING WASTE 3rd FLOOR PLAN

SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

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| <p>1 3" DGN FROM (2) 2" WATER METERS, SEE CIVIL FOR CONTINUATION.</p> <p>2 6" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.</p> <p>3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.</p> <p>4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED, (TYPICAL).</p> <p>5 3/4" DGN DOWN TO HB WITH VB AT 18" AFG.</p> <p>6 WATER HEATER (WH-1), 2" DGN, 2" DHX, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT 6" AFG.</p> <p>7 REGULATING PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>8 EXPANSION TANK (EXP) 1 1/4" CONNECTION, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.</p> <p>9 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.</p> <p>10 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 6" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>11 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' AT LAVATORY TAILPIECE.</p> <p>12 AIR CONDITIONING COIL, SECONDARY DRAIN PAN ROUTE 3/4" CONDENSATE DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>13 WATER CLOSET (WC), 1-1/2" DGN, 3" W, 2" V.</p> <p>14 LAVATORY (H-LAV), 1/2" DGN, 1/2" DHX, 2" W, 1 1/2" V.</p> <p>15 3-COMPARTMENT SINK (SK-3), 1/2" DGN, 1/2" DHX, ROUTE ALL 3 COMPARTMENTS 2" W INDIRECTLY WASTED TO FLOOR SINK WITH AIR GAP.</p> <p>16 PREP SINK (SK-1), 1/2" DGN, 1/2" DHX, 2" W (WITH AIR GAP).</p> <p>17 MOP SINK (MS), 3/4" DGN, 3/4" DHX, 3" W, 2" V. PROVIDE 3/4" WATTS CO99GT BACKFLOW PREVENTER FOR CHEMICAL SYSTEM (FBO).</p> <p>18 HAND SINK (HS), 1/2" DGN, 1/2" DHX, 2"W, & 1 1/2" V.</p> <p>19 WASHING MACHINE (WB), 3/4" DGN, 3/4" DHX, 2" W. PROVIDE WATER HAMMER ARRESTOR (WHA-A), IN LOCKING ACCESS DOOR.</p> | <p>20 LAUNDRY SINK (LS), 1/2" DGN, 1/2" DHX, 2"W, & 1 1/2" V.</p> <p>21 1/2" DGN TO 3/8" FITTING AT FIXTURE (FBO), PROVIDE WATTS # 007-U BACKFLOW PREVENTER, PROVIDE FULL SIZE DRAIN TO APPROVED RECEPTACLE.</p> <p>22 2" FD WITH 2" W, 1 1/2" V, PROVIDE PROSET TRAP GUARD INSERT.</p> <p>23 TROUGH DRAIN (TD) WITH 4" W, 3" V.</p> <p>24 FLOOR SINK (FS), 2" W, & 1 1/2" V. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP, FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING.</p> <p>25 GREASE TRAP (GT), 3" W & 3" V, WITH VENTED FLOW CONTROL FITTINGS, INSTALL PER LOCAL CODE REQUIREMENTS.</p> <p>26 STUB-OUT FOR WATER SOFTENER (FBO), PROVIDE BYPASS VALVES, ETC PER MANUFACTURERS RECOMMENDATIONS.</p> <p>27 DOMESTIC WATER BOOSTER PUMP (BP), 3" DGN, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>28 3" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>29 4" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>30 RD LEADER (RD/L) AND OD LEADER (OD/L) DOWN IN WALL TO DOWNSPOUT NOZZLE (DN) AT 18" AFG.</p> <p>31 PIPING UP/ DOWN TO/ FROM SECOND FLOOR.</p> <p>32 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.</p> <p>33 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.</p> <p>34 TEMPERING VALVE (TV), 2" DGN, 2" DHX, 2" W, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>35 SUMP PUMP (SP), PROVIDE 24" RD. SUMP WITH COVER, FIELD ROUTE 2" W UP & 'ELL' THRU WALL.</p> <p>36 SWIMMING POOL EQUIPMENT 1" DGN MAKE UP WATER SUPPLY WITH BACKFLOW PREVENTER (RFBP), FIELD ROUTE AND VERIFY EXACT LOCATION.</p> <p>37 4" RD LEADER (RD/L) AND 4" OD LEADER (OD/L) ROUTED IN PATIO SLAB TO TERMINATE TO DAYLIGHT AT FACE OF CURB, SEE ARCHITECT FOR EXACT LOCATION.</p> <p>38 THERMAL EXPANSION LOOP(S).</p> <p>39 BAR SINK (BS), 1/2" DGN, 1/2" DHX, 2"W, & 1 1/2" V.</p> |
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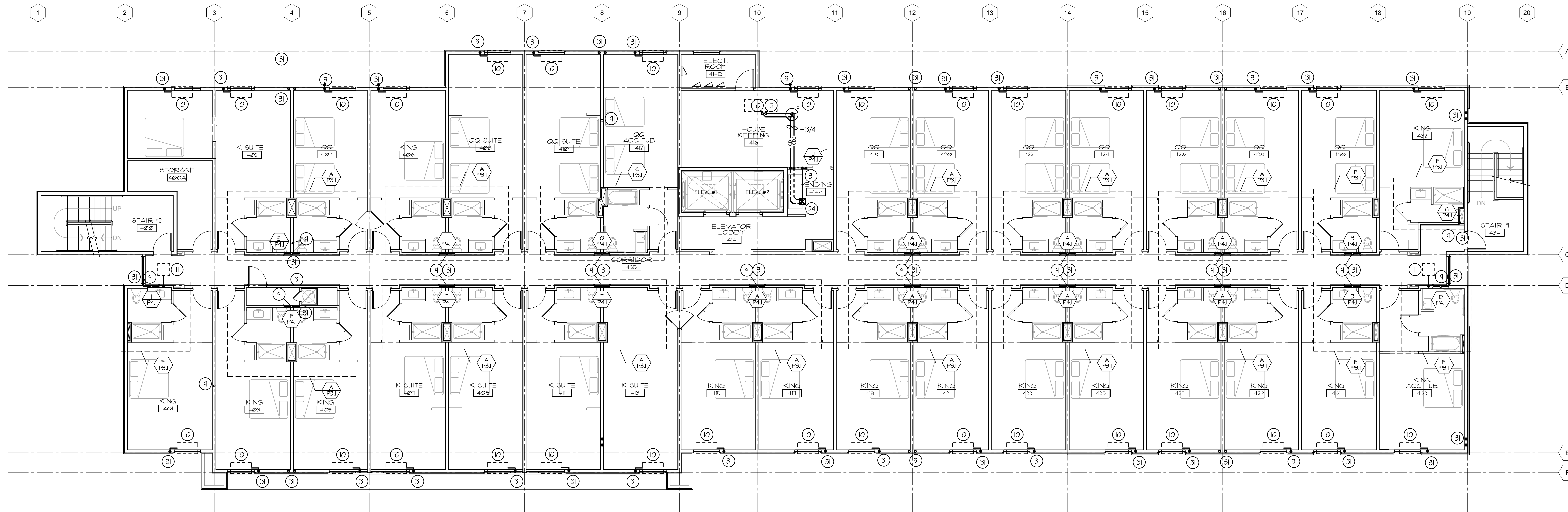


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PLUMBING WASTE
3RD FLOOR PLAN



PLUMBING WASTE 4th FLOOR PLAN
SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

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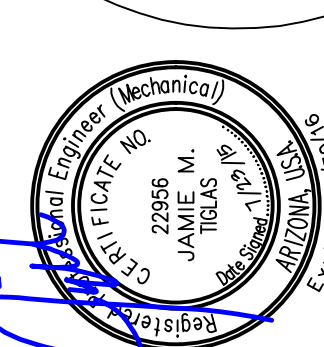
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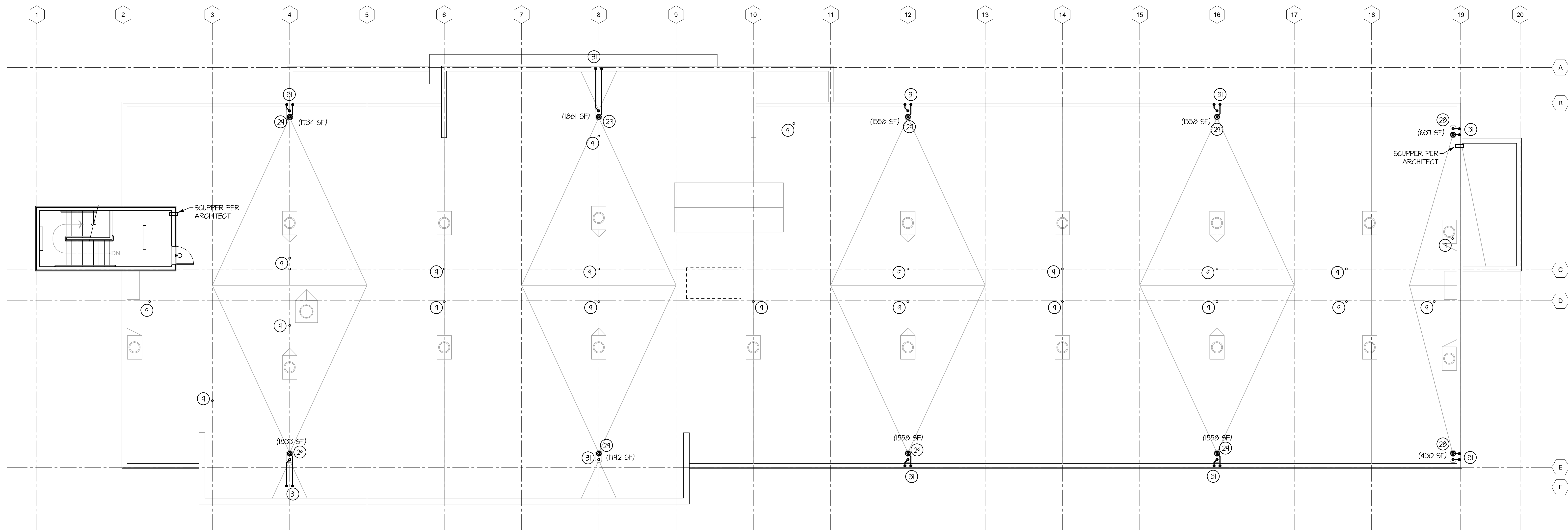


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PLUMBING WASTE
4TH FLOOR PLAN

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PLUMBING WASTE ROOF PLAN
SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

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| <p>1 3" DCH FROM (2) 2" WATER METERS, SEE CIVIL FOR CONTINUATION.</p> <p>2 6" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.</p> <p>3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.</p> <p>4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED. (TYPICAL)</p> <p>5 3/4" DCH DOWN TO HB WITH VB AT 18" AFG.</p> <p>6 WATER HEATER (WH-1), 2" DCH, 2" DHX, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT 6" AFG.</p> <p>7 RECIRCULATING PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>8 EXPANSION TANK (EXP) 1 1/4" CONNECTION, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.</p> <p>9 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.</p> <p>10 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 6" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>11 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' AT LAVATORY TAILPIECE.</p> <p>12 AIR CONDITIONING COIL, SECONDARY DRAIN PAN ROUTE 3/4" CONDENSATE DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).</p> <p>13 WATER CLOSET (WC), 1-1/2" DCH, 1/2" DHX, 3" W, 2" V.</p> <p>14 LAVATORY (H-LAV), 1/2" DCH, 1/2" DHX, 2" W, 1 1/2" V.</p> <p>15 3-COMPARTMENT SINK (SK-3), 1/2" DCH, 1/2" DHX, ROUTE ALL 3 COMPARTMENTS 2" W INDIRECTLY WASTED TO FLOOR SINK WITH AIR GAP.</p> <p>16 PREP SINK (SK-1), 1/2" DCH, 1/2" DHX, 2" W (WITH AIR GAP).</p> <p>17 MOP SINK (MS), 3/4" DCH, 3/4" DHX, 3" W, 2" V. PROVIDE 3/4" WATTS 004QT BACKFLOW PREVENTER FOR CHEMICAL SYSTEM (FBO).</p> <p>18 HAND SINK (HS), 1/2" DCH, 1/2" DHX, 2" W, 4 1 1/2" V.</p> <p>19 WASHING MACHINE (WB), 3/4" DCH, 3/4" DHX, 2" W. PROVIDE WATER HAMMER ARRESTOR (WHA-A), IN LOCKING ACCESS DOOR.</p> | <p>20 LAUNDRY SINK (LS), 1/2" DCH, 1/2" DHX, 2" W, 4 1 1/2" V.</p> <p>21 1/2" DCH TO 3/8" FITTING AT FIXTURE (FBO), PROVIDE WATTS # 007-U BACKFLOW PREVENTER, PROVIDE FULL SIZE DRAIN TO APPROVED RECEPTACLE.</p> <p>22 2" FD WITH 2" W, 1 1/2" V. PROVIDE PROSET TRAP GUARD INSERT.</p> <p>23 TROUGH DRAIN (TD) WITH 4" W, 3" V.</p> <p>24 FLOOR SINK (FS), 2" W, 4 1 1/2" V. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP. FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING.</p> <p>25 GREASE TRAP (GT), 3" W, 4 3" V, WITH VENTED FLOW CONTROL FITTINGS, INSTALL PER LOCAL CODE REQUIREMENTS.</p> <p>26 STUB-OUT FOR WATER SOFTENER (FBO), PROVIDE BYPASS VALVES, ETC PER MANUFACTURERS RECOMMENDATIONS.</p> <p>27 DOMESTIC WATER BOOSTER PUMP (BP), 3" DCH, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>28 3" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>29 4" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.</p> <p>30 RD LEADER (RD/L) AND OD LEADER (OD/L) DOWN IN WALL TO DOWNSPOUT NOZZLE (DN) AT 18" AFG.</p> <p>31 PIPING UP/ DOWN TO/ FROM SECOND FLOOR.</p> <p>32 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.</p> <p>33 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.</p> <p>34 TEMPERING VALVE (TV), 2" DCH, 2" DHX, 2" W, INSTALL PER MANUFACTURERS RECOMMENDATIONS.</p> <p>35 SUMP PUMP (SP), PROVIDE 24" RD. SUMP WITH COVER, FIELD ROUTE 2" W UP & 'ELL' THRU WALL.</p> <p>36 SWIMMING POOL EQUIPMENT 1" DCH MAKE UP WATER SUPPLY WITH BACKFLOW PREVENTER (RFBP), FIELD ROUTE AND VERIFY EXACT LOCATION.</p> <p>37 4" RD LEADER (RD/L) AND 4" OD LEADER (OD/L) ROUTED IN PATIO SLAB TO TERMINATE TO DAYLIGHT AT FACE OF CURB. SEE ARCHITECT FOR EXACT LOCATION.</p> <p>38 THERMAL EXPANSION LOOP(S).</p> <p>39 BAR SINK (BS), 1/2" DCH, 1/2" DHX, 2" W, 4 1 1/2" V.</p> |
|---|---|
- NOTE: NOT ALL KEYNOTES MAY BE USED.

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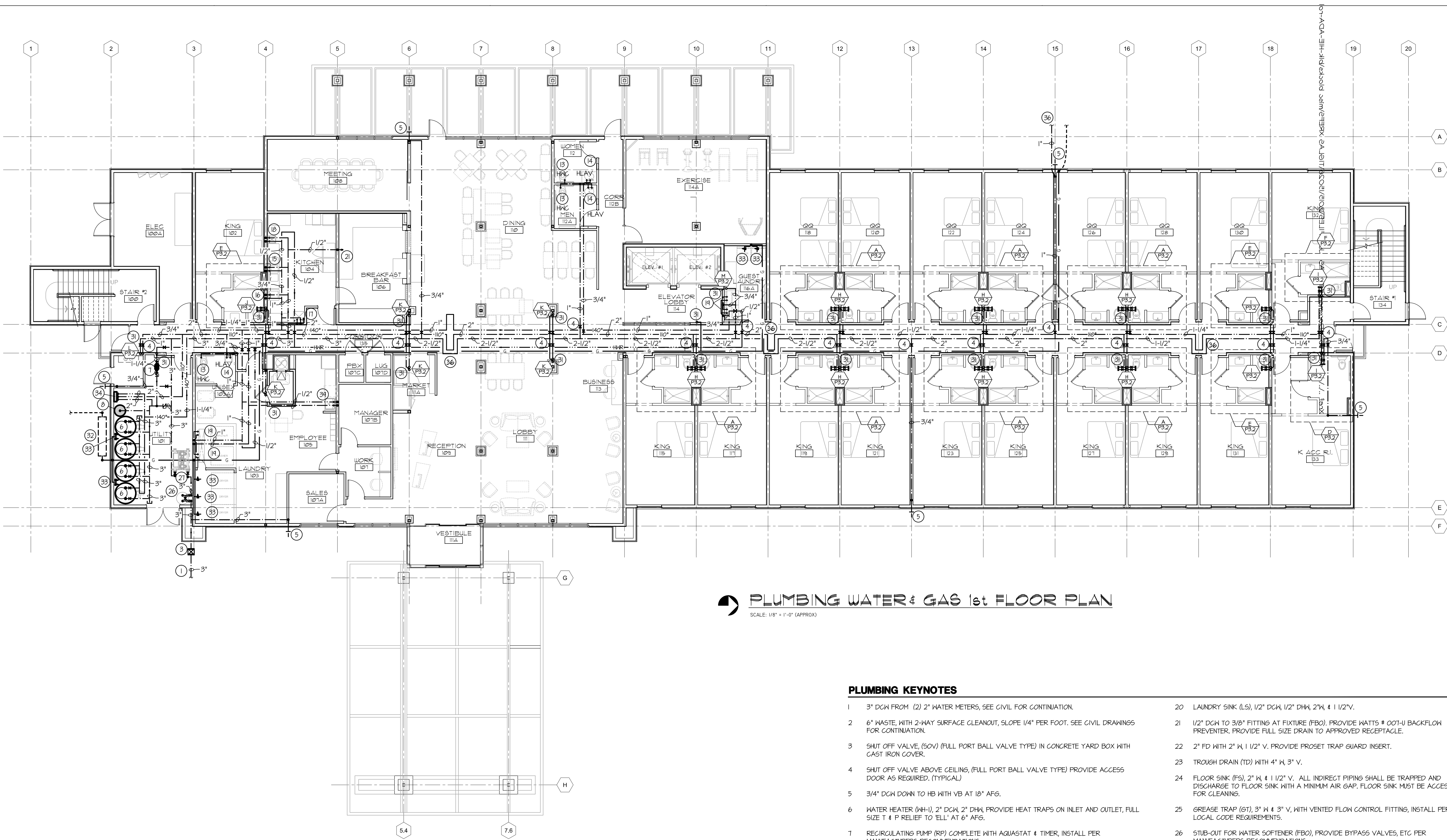


JOB NUMBER
 DATE
 07-24-2015

PLUMBING
 ROOF PLAN
 P15

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PLUMBING WATER & GAS 1st FLOOR PLAN
 SCALE: 1/8" = 1'-0" (APPROX)

PLUMBING KEYNOTES

- 1 3" DCG FROM (2) 2" WATER METERS, SEE CIVIL FOR CONTINUATION.
 - 2 6" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - 3 SHUT OFF VALVE (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.
 - 4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED. (TYPICAL)
 - 5 3/4" DCG DOWN TO HB WITH VB AT 18" AFG.
 - 6 WATER HEATER (WH-1), 2" DCG, 2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT 6" AFG.
 - 7 RECIRCULATING PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 8 EXPANSION TANK (EXP) 1/4" CONNECTION, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 - 9 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.
 - 10 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 6" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).
 - 11 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' AT LAVATORY TAILPIECE.
 - 12 AIR CONDITIONING COIL, SECONDARY DRAIN PAN ROUTE 3/4" CONDENSATE DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 18" AFG TO LANDSCAPE AREA, FLOOR SINK, MOP SINK (SEE FLOOR PLAN).
 - 13 WATER CLOSET (HWC), 1-1/2" DCG, 3" W, 2" V.
 - 14 LAVATORY (H-LAV), 1/2" DCG, 1/2" DHW, 2" W, 1 1/2" V.
 - 15 3-COMPARTMENT SINK (SK-3), 1/2" DCG, 1/2" DHW, ROUTE ALL 3 COMPARTMENTS 2" W INDIRECTLY WASTED TO FLOOR SINK WITH AIR GAP.
 - 16 PREP SINK (SK-1), 1/2" DCG, 1/2" DHW, 2" W (WITH AIR GAP).
 - 17 MOP SINK (MS), 3/4" DCG, 3/4" DHW, 3" W, 2" V. PROVIDE 3/4" WATTS 00A9T BACKFLOW PREVENTER FOR CHEMICAL SYSTEM (FBO).
 - 18 HAND SINK (HS), 1/2" DCG, 1/2" DHW, 2" W, 4 1 1/2" V.
 - 19 WASHING MACHINE (WB), 3/4" DCG, 3/4" DHW, 2" W, PROVIDE WATER HAMMER ARRESTOR (WHA-A), IN LOCKING ACCESS DOOR.
 - 20 LAUNDRY SINK (LS), 1/2" DCG, 1/2" DHW, 2" W, 4 1 1/2" V.
 - 21 1/2" DCG TO 3/8" FITTING AT FIXTURE (FBO). PROVIDE WATTS # 007-U BACKFLOW PREVENTER. PROVIDE FULL SIZE DRAIN TO APPROVED RECEPTACLE.
 - 22 2" FD WITH 2" W, 1 1/2" V. PROVIDE PROSET TRAP GUARD INSERT.
 - 23 TROUGH DRAIN (TD) WITH 4" W, 3" V.
 - 24 FLOOR SINK (FS), 2" W, 4 1 1/2" V. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP. FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING.
 - 25 GREASE TRAP (GT), 3" W & 3" V, WITH VENTED FLOW CONTROL FITTING, INSTALL PER LOCAL CODE REQUIREMENTS.
 - 26 STUB-OUT FOR WATER SOFTENER (FBO), PROVIDE BYPASS VALVES, ETC PER MANUFACTURERS RECOMMENDATIONS.
 - 27 DOMESTIC WATER BOOSTER PUMP (BP), 3" DCG, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 28 3" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.
 - 29 4" ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). SLOPE HORIZONTAL RUNS AT 1/8" PER FOOT.
 - 30 RD LEADER (RDL) AND OD LEADER (ODL) DOWN IN WALL TO DOWNSPOUT NOZZLE (DN) AT 18" AFG.
 - 31 PIPING UP/ DOWN TO/ FROM SECOND FLOOR.
 - 32 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.
 - 33 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.
 - 34 TEMPERING VALVE (TV), 2" DCG, 2" DHW, 2" TH, INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 - 35 SUMP PUMP (SP), PROVIDE 24" RD. SUMP WITH COVER, FIELD ROUTE 2" W UP & 'ELL' THRU WALL.
 - 36 SWIMMING POOL EQUIPMENT 1" DCG MAKE UP WATER SUPPLY WITH BACKFLOW PREVENTER (RPBP), FIELD ROUTE AND VERIFY EXACT LOCATION.
 - 37 4" RD LEADER (RDL) AND 4" OD LEADER (ODL) ROUTED IN PATIO SLAB TO TERMINATE TO DAYLIGHT AT FACE OF CURB. SEE ARCHITECT FOR EXACT LOCATION.
 - 38 THERMAL EXPANSION LOOP(S).
 - 39 BAR SINK (BS), 1/2" DCG, 1/2" DHW, 2" W, 4 1 1/2" V.
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JOB NUMBER
 DATE
 07-24-2015
 CITY COMMENTS
 10-14-2015

PLUMBING WATER & GAS
 1ST FLOOR PLAN
 P-2.1