

Plans

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- # KEY NOTES
1. PROVIDE MANIFOLD LARGE ENOUGH FOR ALL COLD WATER BRANCHES TO ROOMS/AREAS AS IDENTIFIED. PROVIDE BRANCH SIZE AS THE SAME SIZE FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED. ALL PIPING SHALL BE ROUTED UNDERGROUND IN CROSS-LINKED POLYETHYLENE PIPING FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED WITHOUT FITTINGS UNDERGROUND. ONCE THE PIPING IS IN THE ROOM/AREA AS IDENTIFIED THE PIPING CAN BE ROUTED ABOVEGROUND THRU THE WALL OR MANIFOLDED WITH ADDITIONAL CROSS-LINKED POLYETHYLENE PIPING TO THE FIXTURE BEING ROUTED UNDERGROUND TO THE FIXTURE. SEE ABOVE GROUND PLANS FOR MANIFOLD LOCATION.
  2. BRANCH SIZE PIPING. ROUTE TO COLD WATER MANIFOLD.
  3. PROVIDE MANIFOLD LARGE ENOUGH FOR ALL HOT WATER BRANCHES TO ROOMS/AREAS AS IDENTIFIED. PROVIDE BRANCH SIZE AS THE SAME SIZE FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED. ALL PIPING SHALL BE ROUTED UNDERGROUND IN CROSS-LINKED POLYETHYLENE PIPING FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED WITHOUT FITTINGS UNDERGROUND. ONCE THE PIPING IS IN THE ROOM/AREA AS IDENTIFIED THE PIPING CAN BE ROUTED ABOVEGROUND THRU THE WALL OR MANIFOLDED WITH ADDITIONAL CROSS-LINKED POLYETHYLENE PIPING TO THE FIXTURE BEING ROUTED UNDERGROUND TO THE FIXTURE.
  4. BRANCH SIZE PIPING. ROUTE TO HOT WATER RETURN MANIFOLD.
  5. PROVIDE MANIFOLD LARGE ENOUGH FOR ALL HOT WATER RETURN BRANCHES TO ROOMS/AREAS AS IDENTIFIED. PROVIDE BRANCH SIZE AS THE SAME SIZE FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED. ALL PIPING SHALL BE ROUTED UNDERGROUND IN CROSS-LINKED POLYETHYLENE PIPING FROM MANIFOLD TO ROOM/AREA AS IDENTIFIED WITHOUT FITTINGS UNDERGROUND. ONCE THE PIPING IS IN THE ROOM/AREA AS IDENTIFIED THE PIPING CAN BE ROUTED ABOVEGROUND THRU THE WALL OR MANIFOLDED WITH ADDITIONAL CROSS-LINKED POLYETHYLENE PIPING TO THE FIXTURE BEING ROUTED UNDERGROUND TO THE FIXTURE.
  6. BRANCH SIZE PIPING. ROUTE TO HOT WATER RETURN MANIFOLD.
  7. PROVIDE MANIFOLDS AND ACCESS COVERS AS REQUIRED. COORDINATE INSTALLATION OF ACCESS COVERS WITH GENERAL CONTRACTOR.

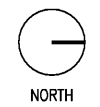
8. 1/2" HOT WATER AND 1/2" COLD WATER RETURN UP TO WATER HEATER IN PLAZA. SEE SHEET P.101 FOR CONTINUATION OF PIPING.
9. 3/4" HOT WATER SUPPLY AND 1/2" HOT WATER RETURN FROM WATER HEATER ON MEZZANINE TO KITCHEN FIXTURES.
10. 2" COLD WATER. SEE CIVIL PLANS FOR CONTINUATION OF PIPING, METER AND RPZ LOCATION. INVERT ELEVATION SHALL BE BELOW LOCAL FROST LEVEL WITH A MINIMUM BUILDING INVERT OF 4'-0" BELOW FINISH FLOOR.
11. 2" COLD WATER SERVICE UP TO BACKFLOW PREVENTOR. SEE SHEET DETAIL ON P.400 FOR UTILITY ROOM DOMESTIC WATER RISER DIAGRAM.
12. 3" SANITARY FOR CONDENSATE UP TO MAIN FLOOR. SEE SHEET P.101 FOR CONTINUATION OF PIPING.
13. 4" SANITARY. SEE CIVIL PLANS FOR CONTINUATION OF PIPING. INVERT ELEVATION SHALL BE BELOW LOCAL FROST LEVEL WITH A MINIMUM BUILDING INVERT OF 4'-0" BELOW FINISH FLOOR.
14. COORDINATE FLOOR CLEAN OUT WITH GENERAL CONTRACTOR AND ARCHITECTURAL CASEWORK PLANS. ALL FLOOR CLEAN OUTS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
15. 3/4" COLD WATER UP TO MAIN LEVEL TO SERVE WALL HYDRANT. SEE MAIN LEVEL PIPING PLAN FOR CONTINUATION OF 3/4" COLD WATER PIPING.
16. PROVIDE WATER LINE THROUGH DUCT METER TO OUTDOOR SPLASH AREA. COORDINATE EXACT SIZE AND ROUTING WITH SITE DRAWINGS AND SPLASH AREA EQUIPMENT REQUIREMENTS.

ALL UNDERGROUND PEX PIPING TO BE CROSSLINKED TYPE EQUAL TO UPONOR SYSTEMS. ALL UNDERGROUND JOINTS TO BE "MEMORY EXPANSION" FITTINGS.

UNDERGROUND PIPING PLAN

SEAL ALL PENETRATIONS THROUGH SMOKE RATED WALLS.

3/16" = 1'-0"



**SANITARY PIPING NOTES:** SEE RISER DIAGRAM ON SHEET P.200 FOR FURTHER SANITARY PIPE SIZING. ALL BELOW GROUND SANITARY HORIZONTAL PIPING SHALL BE 3" (MINIMUM) OR 4" (WHERE INDICATED ON THE DRAWINGS). BELOW GROUND SANITARY VERTICAL PIPING SHALL BE 4" FOR ALL WATER CLOSETS, 3" FOR THE MOP SINK, ALL FLOOR DRAINS AND BOTH FLOOR SINKS, AND 2" FOR ALL OTHER FIXTURES. IF THE WASTE CONNECTION ON THE PLUMBING SCHEDULE CALLS FOR A 1-1/2" SANITARY CONNECTION, PLUMBER MAY REDUCE FROM 2" TO 1-1/2" ABOVE GROUND ONLY, NOT BELOW. PLUMBER SHALL INSTALL AND SLOPE ALL SANITARY PIPING PER LOCAL AND STATE CODES (1/8" PER FOOT MINIMUM SLOPE).

**VENT PIPING NOTES:** SEE RISER DIAGRAM ON SHEET P.200 FOR FURTHER VENT PIPE SIZING. BELOW GROUND HORIZONTAL AND VERTICAL VENT PIPING SHALL BE 2". HORIZONTAL VENT PIPING BELOW GROUND SHALL BE INSTALLED 6" ABOVE THE FLOOR RIM LEVEL OF THE SANITARY PIPING. ALL VENT PIPING ABOVE AND BELOW GROUND SERVING A WATER CLOSET SHALL BE 2". PLUMBER MAY REDUCE THE VENT PIPING FROM 2" TO 1-1/2" ABOVE GROUND ONLY FOR ALL OTHER FIXTURES. ALL VENT THRU ROOFS SHALL BE 3" MINIMUM AND LOCATED AT LEAST 10'-0" FROM ANY HVAC AIR INTAKES. PLUMBER SHALL COORDINATE ALL VENT THRU ROOFS WITH MECHANICAL CONTRACTOR (HVAC AIR INTAKES MAY NOT BE INSTALLED EXACTLY AS SHOWN ON THE PLANS). PLUMBER SHALL INSTALL ALL VENT PIPING PER LOCAL AND STATE CODES.

**DOMESTIC WATER NOTES:** PLUMBER SHALL MAINTAIN A MINIMUM 5'-0" HORIZONTAL SEPARATION OF THE BELOW GROUND DOMESTIC WATER SERVICE FROM THE SANITARY PIPING. WHERE 5'-0" HORIZONTAL SEPARATION CANNOT BE MAINTAINED THE PLUMBER SHALL INSTALL THE DOMESTIC WATER PIPING (BOTTOM OF PIPE) A MINIMUM OF 1'-0" ABOVE THE SANITARY PIPING (TOP OF PIPE). PLUMBER SHALL INSTALL ALL DOMESTIC WATER PIPING PER LOCAL AND STATE CODES.

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