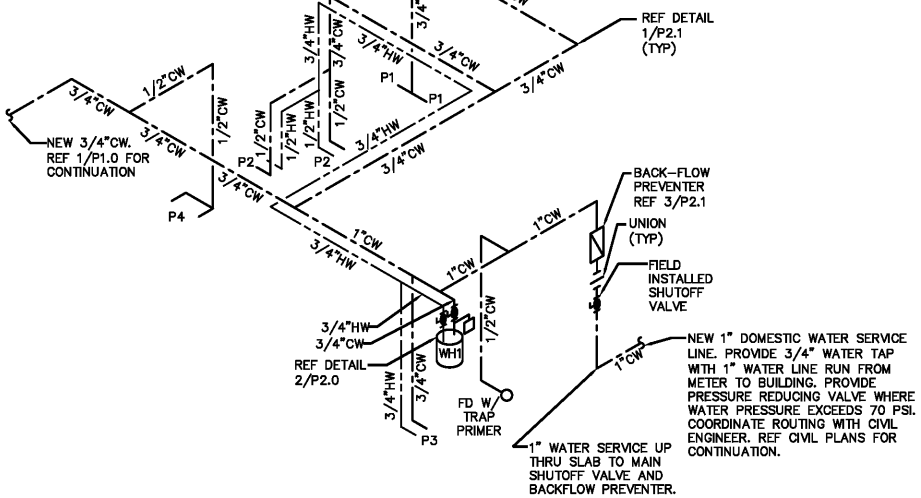
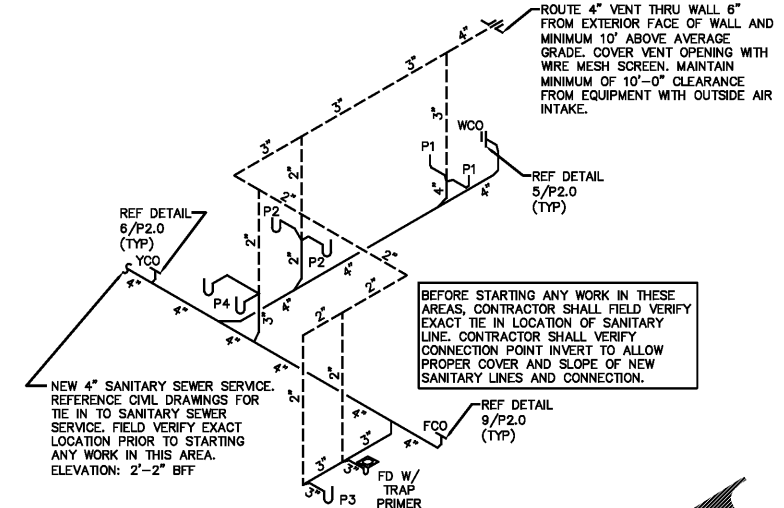


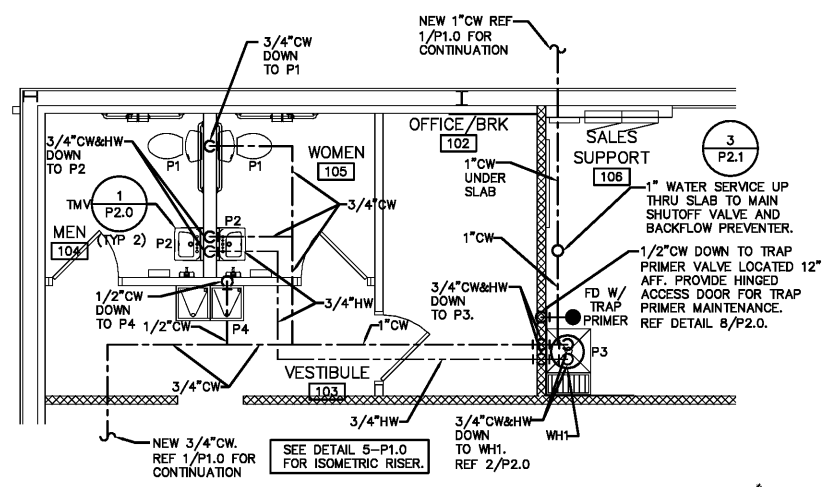
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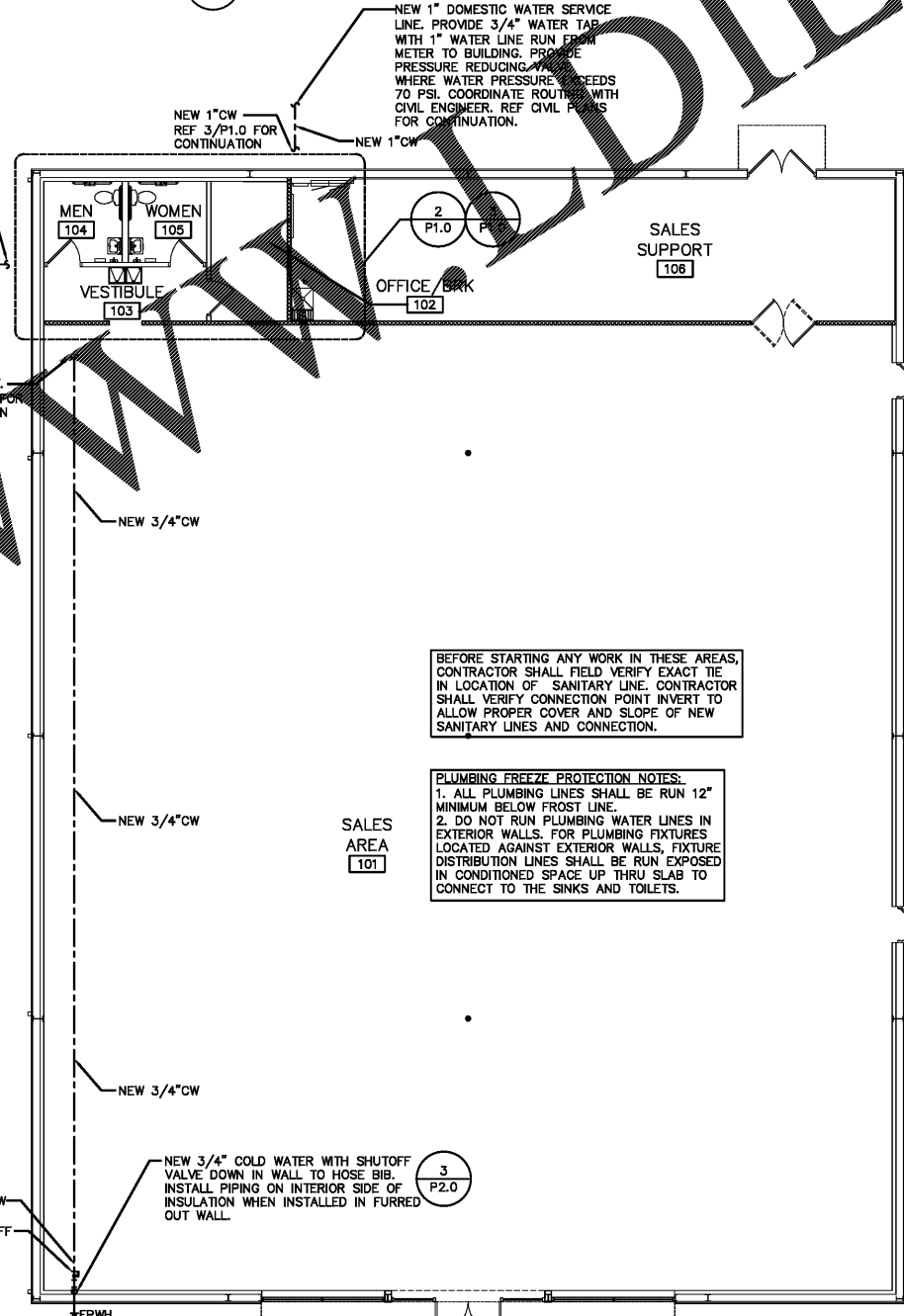
5 WATER RISER
NTS



4 WASTE AND VENT RISER
NTS



3 ENLARGED WATER PLAN
1/4"=1'-0"



1 PLUMBING PLAN
1/8"=1'-0"

2 ENLARGED WASTE AND VENT PLAN
1/4"=1'-0"

GENERAL NOTES

- 1. NOTES APPLY TO ALL PLUMBING SHEETS.
- 2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION, IN ALL RESPECTS READY FOR INTENDED USE, AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK.
- 3. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. INSPECTION AND COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
- 4. COORDINATE UTILITY CONNECTIONS WITH CIVIL, GC, AND ELECTRICAL CONTRACTORS. PROVIDING VALVE AND BACK FLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ.
- 5. REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN.
- 6. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAIL SUBMITTED FOR PERMITTING.
- 7. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 4" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 4" DIAMETER AND LARGER.
- 8. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.
- 9. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEAN-OUTS THAT ARE NOT LOCATED ABOVE AN ACCESSIBLE CEILING.
- 10. PROVIDE TRAP SEAL PRIMERS AS SHOWN OR AS REQUIRED BY AHJ.
- 11. INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.
- 12. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.
- 13. PROVIDE FIRE SEAL WHERE PIPES PENETRATE FIRE RATED ASSEMBLY.
- 14. PROVIDE TYPE "L" HARD DRAWN COPPER WATER PIPE ABOVE GRADE. PROVIDE TYPE "K" HARD DRAWN COPPER WATER PIPE BELOW GRADE. INSULATION IS REQUIRED ON ALL WATER SUPPLY PIPING ABOVE FINISHED FLOOR IN ACCORDANCE WITH THE STATE PLUMBING CODE OR PER LOCAL JURISDICTION. REFERENCE SPECIFICATIONS FOR APPROVED EQUALS.
- 15. FIRE PROTECTION DESIGN IS NOT PART OF THESE DESIGN DOCUMENTS. FIRE PROTECTION DESIGN DRAWINGS SHALL BE PREPARED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED FOR REVIEW AND APPROVAL AT THAT TIME.
- 16. CONTRACTOR TO MAINTAIN A CLEAN WORK ENVIRONMENT AND REMOVE TRASH AND DEBRIS FROM WORK AREA DAILY. ANY CHARGES FOR CLEAN UP CREATED DUE TO NEGLIGENCE WILL BE WITHHELD FROM CONTRACTOR'S RETAINAGE, NO EXCEPTIONS.
- 17. ALTERNATE MANUFACTURER'S NOT ACCEPTED FOR THE FIXTURES LISTED IN THE PLUMBING FIXTURE SCHEDULE, UNLESS NOTED OTHERWISE.
- 18. ALL FIXTURES, PIPING, VALVES, ETC ARE NEW UNLESS DENOTED AS EXISTING.
- 19. PROVIDE INSULATION ON HOT AND COLD WATER, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPES. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
- 20. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED.
- 21. HEAT TAPE SHALL BE PROVIDED FOR ALL DOMESTIC WATER LINES LOCATED IN EXTERIOR WALLS IN CLIMATES WHERE PIPES ARE SUBJECT TO FREEZING.
- 22. MAINTAIN 36" CLEARANCE FOR INSTALLATION OF DOMESTIC COLD WATER PIPING IN ANY DIRECTION OR OVERTOP AND ALL ELECTRICAL SWITCHGEAR, MAIN DISTRIBUTION PANELS, SUB-PANELS, ETC.
- 23. ALL SOIL, WASTE AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION.
- 24. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS TO AVOID CONFLICT WITH OTHER TRADES.
- 25. PROVIDE DRAIN VALVES IN THE HOT AND COLD WATER SYSTEM AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE.
- 26. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.
- 27. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS.
- 28. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- 29. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL BE PROVIDED TO PROTECT THE COPPER AGAINST CONTACT WITH OTHER METALS.

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SOUTH CAROLINA
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JOSHUA D. MCCOLL
6/22/17

PLUMBING PLANS