

PLUMBING LEGEND	
----	SOL OR WASTE PIPING
----	VENT PIPING
----	COLD WATER PIPING
----	HOT WATER PIPING
----	BALL VALVE (2" & SMALLER) OR BUTTERFLY VALVE (2" & LARGER)
----	VALVE IN PIPING DROP
----	PIPING DROP IN DIRECTION OF FLOW
----	PIPING RISE IN DIRECTION OF FLOW
----	DIELECTRIC UNION
----	PIPING TEE FROM TOP OF MAIN
----	PIPING TEE FROM BOTTOM OF MAIN
----	C.P.H.B.
----	W.H.
----	FLOOR DRAIN
----	F.C.D.
----	W.C.D.
----	O.S.C.D.
----	VENT THRU ROOF

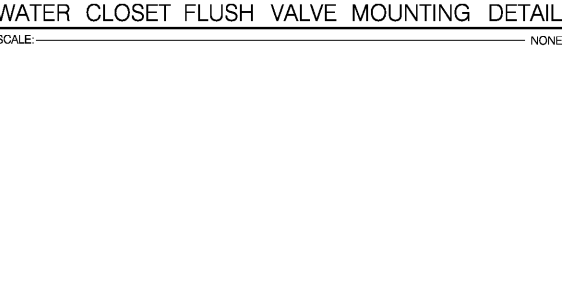
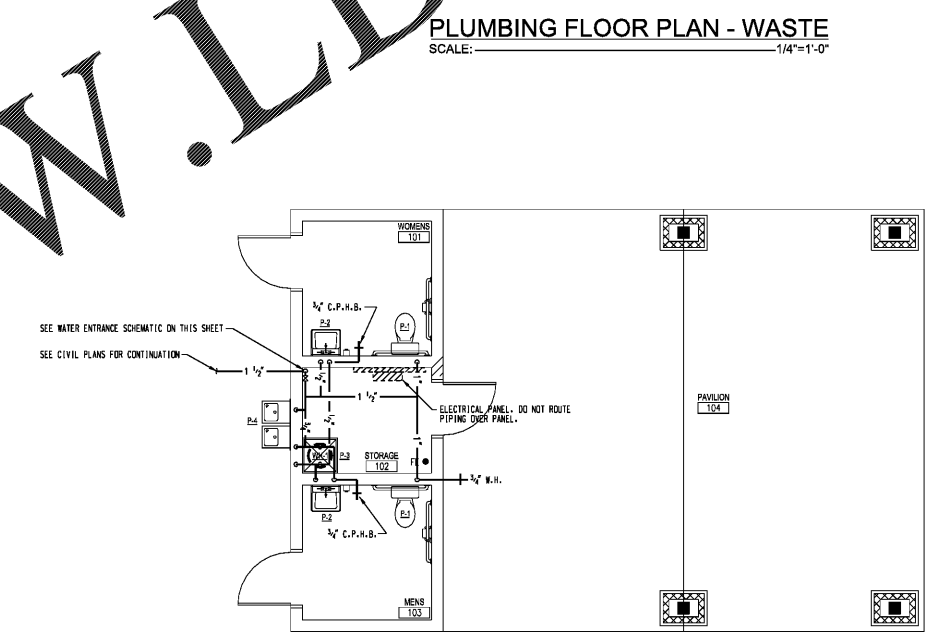
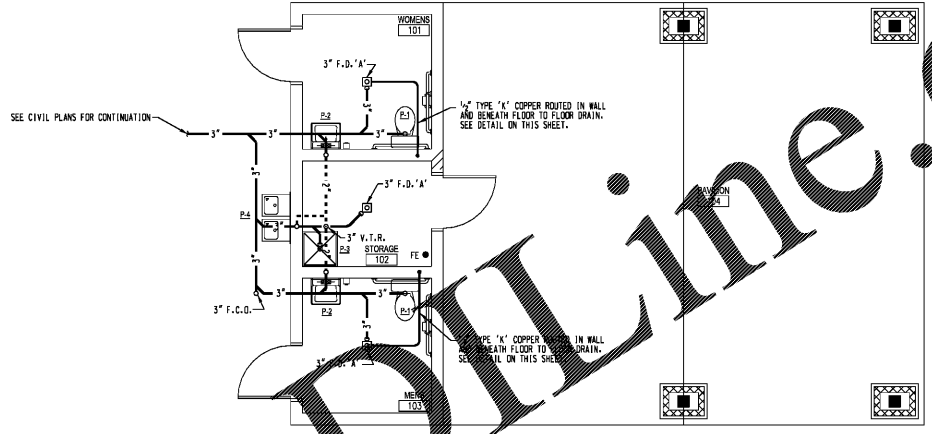
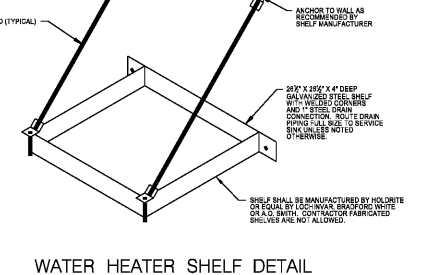
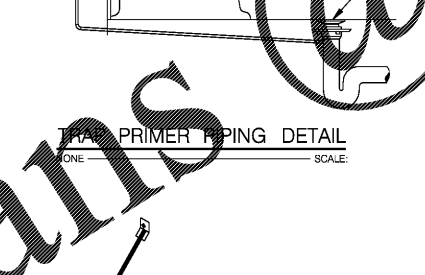
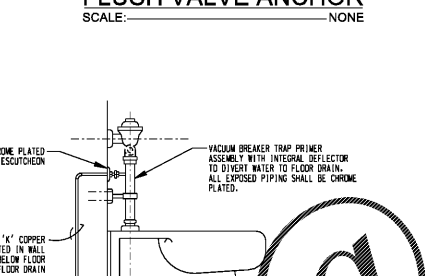
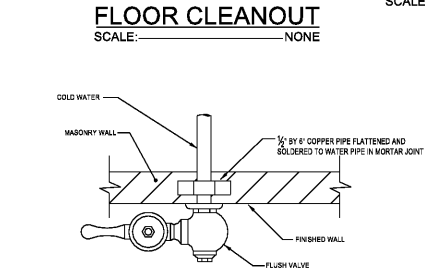
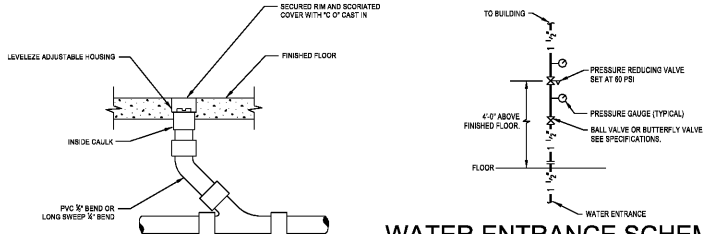
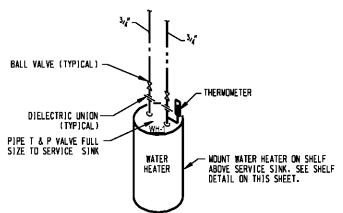
- ### GENERAL NOTES
- THESE DRAWINGS ARE DIMENSIONAL AND SHALL NOT BE SCALED. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
  - INSTALLATION OF PIPE AND EQUIPMENT SHOWN AND SPECIFIED SHALL BE COORDINATED WITH ALL OTHER WORK RELATED TO THE CONSTRUCTION OF THE FACILITY INCLUDING BUT NOT LIMITED TO: BUILDING STRUCTURE, HVAC EQUIPMENT, DUCT WORK AND PIPING, ELECTRICAL WORK AND OTHER FURNISHED EQUIPMENT.
  - STRUCTURAL MEMBERS SHALL NOT BE PENETRATED WITHOUT APPROVAL FROM ARCHITECT.
  - ROUTE ALL PIPING CONTAINING FLUIDS SUBJECT TO FREEZING WITHIN THE BUILDING INSULATION ENVELOPE OR PROVIDE HEAT TAPE.
  - ROUTE SANITARY VENT PIPING SO VENTS THRU ROOF WILL BE A MINIMUM OF 18" FROM ALL OUTSIDE AIR INTAKES AND A MINIMUM OF 6" FROM EXTERIOR WALLS, ROOF EXPANSION JOINTS AND ROOF MOUNTED EQUIPMENT.
  - WHERE CHASE WALLS ARE NOT FURNISHED, PIPING SHALL NOT BE ROUTED HORIZONTALLY. AVOID CUTTING STUDS.

### FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	NOTES	RIM HEIGHT	COLD WATER		HOT WATER		WASTE	
				BRANCH	CONN.	BRANCH	CONN.	BRANCH	CONN.
P-1	WATER CLOSET		18"	1"	1"	---	---	4"	4"
P-2	LAVATORY		34"	1/2"	1/2"	1/2"	1/2"	2"	1 1/2"
P-3	SERVICE SINK		---	1/2"	1/2"	---	---	2"	2"
P-4	DRINKING FOUNTAIN		38 1/2"	1/2"	1/2"	---	---	2"	1 1/2"

- WALL HUNG, FLUSH VALVE
- HANDICAP ACCESSIBLE
- WALL HUNG
- DUAL HEIGHT, FREEZE RESISTANT FOUNTAIN. MOUNT AS REQUIRED BY MANUFACTURER TO MEET ADA.

- ### PLUMBING SPECIFICATIONS:
- WASTE AND VENT PIPING:
    - PVC PIPE: ASTM D1785, SCHEDULE 40. FITTINGS: ANSI/ASTM D2665, DRAINAGE PATTERN SCHEDULE 40 PVC. JOINTS: ASTM D2665, SOLVENT WELD.
  - HOT AND COLD WATER PIPING:
    - COPPER TUBING: ASTM B88 TYPE "L" HARD DRAWN. FITTINGS: ANSI/ASME B16.3 PRESSURE PATTERN WROUGHT COPPER. JOINTS: ANSI/ASME B32 LEAD FREE SOLDER HAVING A COMPOSITION OF 95.5% TIN, 4% COPPER AND 0.5% SILVER.
  - FIXTURE CONNECTIONS:
    - FLOOR MOUNTED WATER CLOSETS: 4" PVC STUB WITH PVC FLANGE AND PREFORMED WAX SETTING RING. PROVIDE BRASS MOUNTING BRACKETS. OFFSET FLANGES SHALL NOT BE ACCEPTABLE.
    - LAVATORIES AND WATER COOLERS: 1 1/4" PVC WASTE ARM.
    - HOT AND COLD WATER SUPPLIES: CHROME PLATED WHEN EXPOSED.
  - SPECIALTY ITEMS:
    - WALL HYDRANTS SHALL BE FREEZE PROOF LOOSE KEY WITH NICKEL BRONZE FACE, J.R. SMITH 5509 OR EQUAL BY JOSAM, WOODROW OR ZURN.
    - WATER HAMMER ARRESTORS SHALL BE JOSAM 75003 OR EQUAL BY SMITH, ZURN OR WATTS.
    - TRAP PRIMERS SHALL BE THE FLUSH VALVE TYPE, VACUUM BREAKER TRAP PRIMER WITH WATER DEFLECTOR, 1/2" ELBOW AND FLEX-BEND CONNECTION, WALL FLANGES AND FITTINGS TO CONNECT TO 1/2" NPT PIPE. ALL EXPOSED SURFACES SHALL BE CHROME PLATED. SCAN 8972-41 OR EQUAL BY ZURN OR SOLATY.
    - THERMOMETER SHALL BE INDUSTRIAL TYPE WITH CAST ALUMINUM CASE AND GLASS WINDOW. RANGE SHALL BE 0° TO 240° IN 2" DIVISIONS. MEASLER, THERICE OR WEISS ARE ACCEPTABLE MANUFACTURERS.
    - CHROME PLATED HOSE BIBBS SHALL BE EQUAL TO CHICAGO 807L WITH LOOSE KEY AND WATTS BAC CHROME PLATED VACUUM BREAKER.
    - VALVES 2" AND SMALLER SHALL BE BALL VALVES EQUAL TO NIBCO 5-5807-SB0.
  - PIPE HANGERS AND SUPPORTS:
    - SUPPORT WATER PIPING WITH HANGERS EQUAL TO B-LINE 8310CT INSTALLED ON MAXIMUM 3'-0" CENTERS.
    - SUPPORT WASTE AND VENT PIPING WITH HANGERS EQUAL TO B-LINE 8310D INSTALLED ON MAXIMUM 8'-0" CENTERS.
  - PIPING INSULATION:
    - WATER PIPING SHALL BE INSULATED WITH GLASS FIBER INSULATION ANSI/ASTM C547 WITH A "K" VALUE OF 0.24 AT 70° F. JACKET SHALL BE FACTORY APPLIED. ALL SERVICE JACKET WITH SELF SEALING LAP. PROVIDE ASU TAPE WHERE INSULATION BUTTS. INSULATION SHALL BE 1" THICK.
    - FITTINGS SHALL BE INSULATED WITH PRECUT FIBERGLASS FITTING INSERTS WITH PVC FITTING COVERS. PVC FITTING COVERS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 50 OR LESS.
  - FLOOR DRAINS:
    - FLOOR DRAINS SHALL HAVE COATED CAST IRON BODIES AND BE PROVIDED WITH DEEP SEAL TRAPS.
    - FLOOR DRAIN SCHEDULE:
      - F.D.-A': SMITH 2010A WITH 3" SATIN FINISHED NICKALOT TOP OR EQUAL BY JOSAM OR ZURN
  - CLEANOUTS:
    - PROVIDE CLEANOUTS WHERE SHOWN ON THE DRAWINGS. ALL CLEANOUTS SHALL BE ACCESSIBLE. SHALL BE INSTALLED ALLOWING A CLEARANCE OF NOT LESS THAN 18" FOR THE PURPOSE OF RODDING.
    - FLOOR CLEANOUTS SHALL HAVE NICKEL BRONZE FINISH. SMITH 4025 OR EQUAL BY JOSAM OR ZURN.
    - WALL CLEANOUTS SHALL HAVE STAINLESS STEEL FINISH. SMITH 4710 OR EQUAL BY JOSAM OR ZURN.
    - OUTSIDE CLEANOUTS SHALL HAVE CAST IRON BODIES AND ABS PLUG. SMITH 4888 OR EQUAL BY JOSAM OR ZURN.
  - WATER HEATER:
    - WATER HEATER SHALL BE GLASS LINED, ELECTRIC HEATER AND SHALL HAVE TWO ELEMENTS WIRED FOR NON-SIMULTANEOUS OPERATION EACH WITH ITS OWN THERMOSTAT SET POINT. IN 120°. THE TANK SHALL BE INSULATED WITH 1 1/2" POLYURETHANE INSULATION WHICH MEETS ASHRAE 90.1 FOR HEAT LOSS COEFFICIENT. WATER HEATER SHALL HAVE 20 GALLON TANK CAPACITY, 4-5500 WATT, 240V/60HZ/1P/1PH. WATTS, JARROCK OR EQUAL BY BRADFORD WHITE OR A.O. SMITH.
  - PLUMBING FIXTURES:
    - FIXTURE P-1 WATER CLOSET SHALL BE EQUAL TO KOHLER K-4405 WITH BEMIS 81535C SEAT AND KOHLER K-13517 FLUSH VALVE.
    - FIXTURE P-2 LAVATORY SHALL BE EQUAL TO KOHLER K-13609 WITH KOHLER K-1307-K FAUCET WITH KOHLER K-13609 LEVER HANDLE AND KOHLER K-13609 1 1/2" GAUGE P-TRAP WITH CLEANOUT. LOOSE KEY VALVES AND WITH TOO CARR.
    - FIXTURE P-3 SERVICE SINK SHALL BE EQUAL TO SINK 3000 WITH KOHLER K-9147 2" CALK DRAIN AND KOHLER K-8920 FAUCET WITH HOSE AND WASH BASIN.
    - FIXTURE P-4 DRINKING FOUNTAIN SHALL BE EQUAL TO ELKAY EDPP217PK FREEZE RESISTANT WALL HUNG SPLIT LEVEL TYPE WITH 1 1/2" GAUGE P-TRAP WITH CLEANOUT AND SUPPLY STOP.



MADEBEE COUNTY  
REGISTRATION DEPARTMENT  
1100 S. Smoke Mountain Drive  
Mountain, Georgia 30153  
Contact: Mr. Robert ...



300 Chastan Center Bldg. Ste 325  
Kennesaw, Georgia 30144  
TEL: (770) 627-3590 FAX: (770) 627-3594

Schroeder Architects  
ARCHITECTURE ■ INTERIORS ■ LANDSCAPE

3118 E Shadowlawn Avenue, NE  
Atlanta, Georgia 30305  
Tel. 404.733.2828  
Email: david@schroeder-architects.com  
SA02015

WESTBROOK  
ENGINEERING

11300 Johns Creek Pkwy  
Johns Creek, Georgia 30097  
Phone: 770-753-9059  
Email: jwestbrook@westbrookengineering.us

AH&P  
CONSULTING ENGINEERS

ANDREWS, HAMMOCK & POWELL, INC.  
205 Cheshire Lane  
Suite 100  
Macon, Georgia 31210  
MACON (478) 486-4301  
FAX (478) 486-6410  
WWW.AHP&P.COM

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Sheet Title:  
**PLUMBING FLOOR PLANS, LEGEND, SCHEDULE AND DETAILS**

Sheet Number:  
**P101**