

PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH ALL OTHER TRADES PRIOR TO INSTALLATION. NECESSARY OFFSETS, TEES, RE-ROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).
5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE COPPER TUBING, 10"-Ø MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
8. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25% AND DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER SHALL RETURN PIPING SHALL BE 1" THICK. INSTALL SADDLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED WITH TEFLON BALLS 150 # WSP. FOR SIZES 1/2" THRU 2", PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2685. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2 CSA CAN/CSA-B182.4
12. P.C. SANITARY PIPING SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS' RECOMMENDATIONS.
13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.
16. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
17. ROOF DECKING SHALL BE NOT PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
18. P.C. SHALL VERIFY SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SKID MIXING VALVES IF NECESSARY.
19. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLE AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
20. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.

FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY = BUSINESS/WAREHOUSE		MINIMUM PLUMBING FIXTURES	
		FROM TABLE 403.1	
NET AREA FOR OCCUPANT CALC.		TOTAL REQUIRED	TOTAL PROVIDED
CAPACITY OF OFFICES = 10 PEOPLE		MALES 1 WC 3 LAVATORY	4 WC 3 LAVATORY
DIVISION OF FACILITIES PER TABLE 403.4: MALE: 50% FEMALE: 50% 10 x 5 = 5 FEMALE 10 - 5 = 5 MALE		FEMALES 1 WC 1 LAVATORY	4 LAVATORY 8 WC
		DRINKING FOUNTAINS	N/A 1 EWC

\* LESS THAN 25 PEOPLE, UTILIZING UNISEX BATHROOMS.

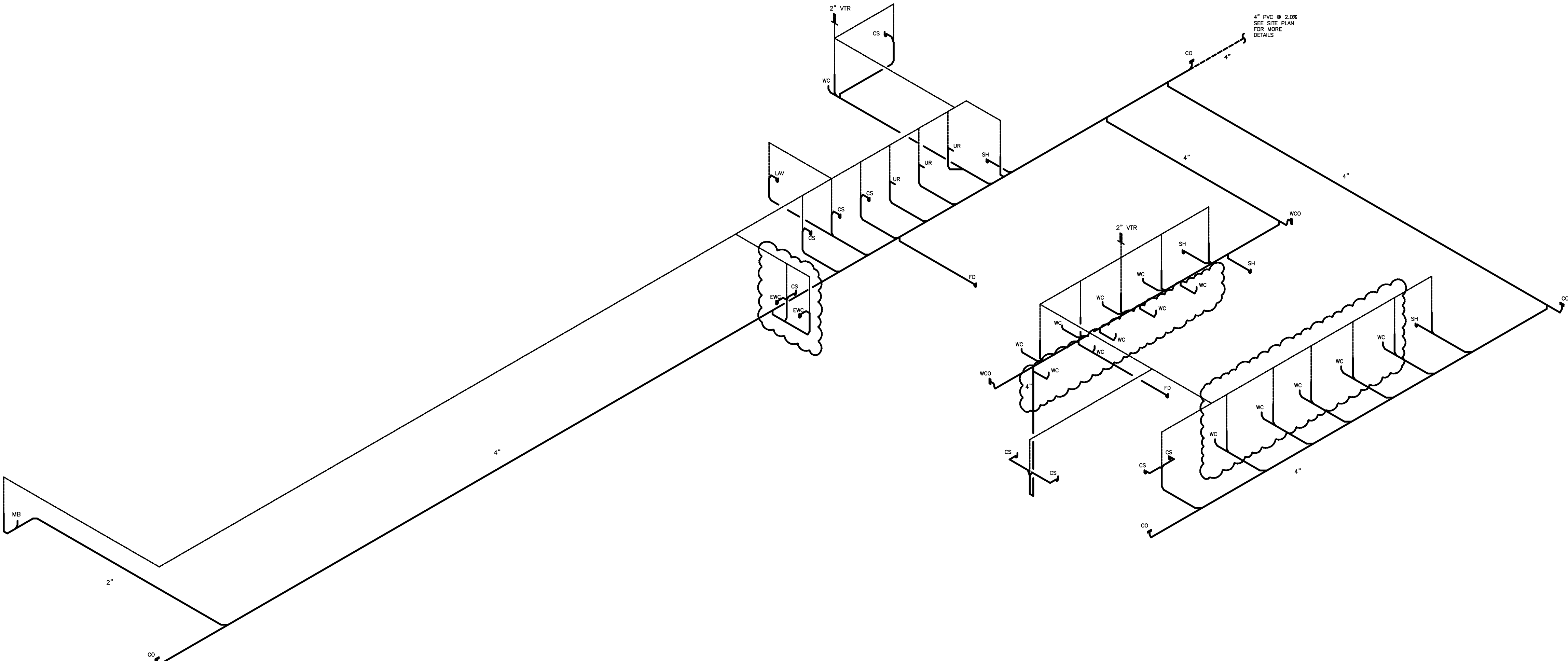
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FIXTURE UNIT REQUIREMENTS	
POTABLE WATER SUPPLY	89.5 GPM USE 1-1/2" SERVICE
WASTE	122.0 FU USE 4" SERVICE

# PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE SCHEDULE							
ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC	WATER CLOSET – TANK TYPE WHITE KOHLER "HIGHLINE" INGENIUM SYSTEM ELONGATED TOILET MODEL NO. K-3658	WHITE			2"	3"	YES
	SEAT – KOHLER K-4666-SA ANTI-MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE	WHITE					YES
	TRIP LEVER – POLISHED CHROME-WIDE SIDE OF STALL	CHROME	3/4"				
UR	URINAL – WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K-4989-T-D	WHITE			1-1/2"	2"	YES
	FLUSH VALVE – ZURN Z6003AV-WS1	CHROME	3/4"				YES
CS	COUNTER SINK – 18 GA UC MOUNTED STAINLESS STEEL; JUST US-13518-A (DEPTH PER ARCH COUNTER DETAIL)	BY ARCH.	1/2"			2"	YES
	FAUCET – ZURN BATTERY POWERED OPTICAL FAUCET #2613-XL-L (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)			1/2"			
	LAV	LAVATORY – KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELED CAST IRON	WHITE	–	–	1 1/2"	2"
SH	FAUCET – MOEN NO. 8886 TWO-HANDLE METERING OR EQUAL W/ KOHLER TRUEBRO HANDI LAV-GUARD INSULATION KIT M# 102W (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	CHROME	1/2"	1/2"			YES
	TILED SHOWER ENCLOSURE WITH HAND RAILS AND SEAT BY G.C. (SEE ARCHITECTURAL PLANS)	WHITE					
	HAND SHOWER-SYMONS 96-500-B30-L-V PRESSURE (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	BY ARCH			2"	2"	YES
MS	MOP SINK – EL MUSTEE 24"x24" MOP SINK M# 63M				2"	3"	
	FAUCET – EL MUSTEE MOP SINK FAUCET M# 63.600A (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"			
	EWC	ELECTRIC WATER COOLER IN HIGH LOW CONFIGURATION WITH BOTTLE FILLING STAION – ELKAY EMABFTLBSLK 8 GPH OF 50 ° F WATER @ 80° F INLET WATER AND 90° F ROOM TEMPERATURE. (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).	BY ARCH.	3/4"		1-1/2"	2"
HB	HOSE BIB – WOODFORD KEYLESS, NON-FREEZELESS, IN A BOX M# B24-C (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
AFH	WALL HYDRANT – WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS IN A RECESSED BOX M# B65 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
FD	FLOOR DRAIN – ZURN M# ZN415B WITH TYPE "B" STRAINER (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	NICK-BRNZ				3"	
CO	CLEAN-OUT IN FLOOR – ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	BRONZE				3"	
WCO	WALL-CLEAN-OUT – ZURN M# ZN-1441-BP (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	BRONZE				2"	

\*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.




# DWV RISER DIAGRAM

SCALE: NONE


ENR23051

**ENGINEERING**

S O U R C E O F N C, P A.



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No.	Date	PRE-BID MTG & ADDENDUM #1	Revision

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COMMUNITY CENTER AND GYMNASIUM FOR  
**Pitt County Office Park**  
403 Government Circle, Greenville, NC 27834

Project No.	22207
Date:	July 2023
Drawing no.	P 001