PLUMBING SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— — CW— — —	COLD WATER LINE	AFF	ABOVE FINISHED FLOOR
—— A ——	COMPRESSED AIR LINE	AHJ	AUTHORITY HAVING JURISDICTION
—— G ——	GAS LINE	CONT	CONTRACTOR
— — HW— — —	HOT WATER LINE	EWC	ELECTRIC WATER COOLER
--------CON---------	MECHANICAL EQUIPMENT CONDENSATE LINE	FDC	FIRE DEPARTMENT CONNECTION
—— O ——	OIL LINE	GCO	GROUND CLEAN OUT
— — — — — — — —	PLUMBING VENT LINE	L	LAVATORY
— — OW— — —	UNDERGROUND OIL WASTE LINE	MS	MOP SINK
—— SAN ——	UNDERGROUND SANITARY DRAIN LINE	NTS	NOT TO SCALE
FCO	FCO-FLOOR CLEAN OUT	TP	TRAP PRIMER
FD	FD-FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
HB	HOSE BIBB	UR	URINAL
WCO	WALL CLEAN OUT	VIF	VERIFY IN FIELD
—⋈—	SHUT-OFF VALVE	VTR	VENT THROUGH ROOF
		WC	WATER CLOSET

CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT

1.) CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.

2.) CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.

3.) COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: THOMAS & HUTTON
682 JOHNNIE DODDAS BLVD. MT. PLEASANT, SC

CIVIL SHT. DWG. NO.	CIVIL SHEET DWG. TITLE	REV. NO.	REV. DATE	REV. NO.	REV. DATE	REV. NO.	REV. DATE
C2.1	WATER AND SEWER						

COORDINATION CHECKED BY	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DISCIPLINE:	RMC	12/02/19				

NOTE:
CONTRACTOR SHALL REFER TO SHEET A3 - ROOF PLAN FOR ACCEPTABLE APPROXIMATE LOCATIONS OF ROOF PENETRATIONS.

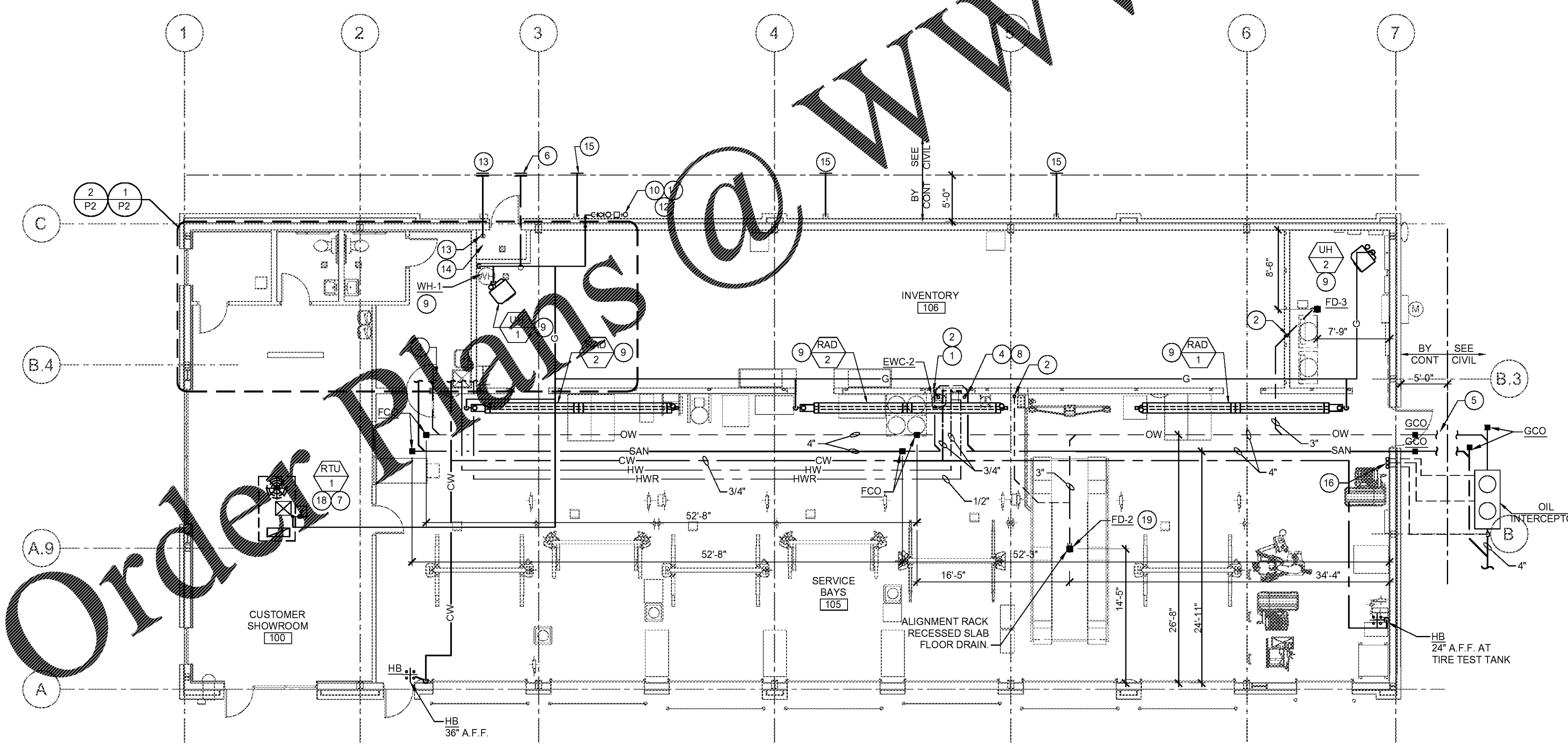
NOTE:
ROUTE ALL WATER AND GAS PIPING TIGHT TO CEILING AND WALLS WHERE POSSIBLE. NO PIPING SHALL BE ROUTED IN UNCONDITIONED SPACES. ALL EXPOSED PIPING SHALL BE INSULATED AND LABELED.

NOTE:
SANITARY AND DOMESTIC WATER PIPE ROUTING ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P6.

SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE	MINIMUM SLOPE
2-1/2" OR LESS	1/4 / ft OR 2%
3" TO 6"	1/8 / ft OR 1%

NOTE:
SCHEDULE BASED ON INTERNATIONAL PLUMBING CODE, SECTION 704 - TABLE 704.1.

PLUMBING INVERTS:
STARTING POINT: 0' - FINISHED FLOOR
ENDING POINT: 5'-0" OUTSIDE BUILDING
SANITARY: 44"
OIL WASTE: 48"



1 / P1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

KEYED PLAN NOTES - THIS SHEET

1. ROUTE COLD & HOT WATER PIPING IN SERVICE BAY WALL. ROUTE PIPING AS REQUIRED TO SINK AND EYEWASH BELOW. ALL PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. 2" VENT UP TO 3" VENT THRU ROOF.
3. SEE ENLARGED PLANS SHEET P2 FOR CONTINUATION.
4. EYEWASH PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. PROVIDE 1/2" INSULATED WATER LINE TO FIXTURE. MOUNT EYEWASH AT 41" A.F.F. TO THE CENTERLINE OF THE SPOUT. REFER TO FIXTURE PLAN FOR LOCATION. REFERENCE DETAIL ON SHEET P5.
5. SANITARY LINE. EXTEND 5'-0" OUT FROM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
6. DOMESTIC WATER SERVICE TO MAIN. EXTEND 5'-0" OUT FROM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
7. VERIFY LOCAL REQUIREMENTS FOR CONDENSATE DISPOSAL. ROUTE FULL SIZE OF RTU CONNECTION TO NEAREST ROOF DOWNSPOUT WITH 1/8" PER FOOT SLOPE AND TERMINATE WITH AIR GAP PER CODE. IF CITY REQUIRES CONDENSATE DISPOSAL TO SANITARY, ROUTE FULL SIZE CONDENSATE LINE TO MOP SINK. ROUTE PIPE AT AN 1/8" PER FOOT SLOPE HORIZONTALLY AND TIGHT TO WALL VERTICALLY. PROVIDE CODE REQUIRED AIR GAP.
8. EYEWASH DRAIN PIPE SHALL BE CONNECTED FULL SIZE OF FIXTURE BACK IN WALL AND DOWN BELOW SLAB. REFERENCE DETAIL ON SHEET P5.
9. GAS PIPE DROP TO GAS FIRED EQUIPMENT. PROVIDE GAS COCK, DIRT LEG, FLEXIBLE CONNECTOR (WHERE APPROVED). ALL GAS PIPING AND ACCESSORIES SHALL NOT EXTEND BELOW THE BOTTOM OF THE UNIT.
10. GAS METER BY UTILITY. CONTRACTOR SHALL VERIFY THAT NEW GAS SERVICE IS REGULATED FOR 7 IN. W.C. AND THE GAS METER WILL HANDLE THE REQUIRED CAPACITY. ANY DISCREPANCIES IN THIS INFORMATION SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND/OR PROJECT ENGINEER.
11. ROUTE GAS PIPE TIGHT TO WALL AND AS REQUIRED TO GAS METER. COORDINATE LOCATION OF ROUGH IN AND OR INSTALLATION OF GAS PIPE. GAS PIPING IS SIZED BASED ON 7 IN. W.C PRESSURE AND A 0.5 W.C. PRESSURE DROP PER THE INTERNATIONAL FUEL GAS CODE, TABLE 402.02.
12. CONTRACTOR SHALL PROVIDE GAS PRESSURE REGULATOR ON CUSTOMER SIDE OF METER TO SUPPLY BUILDING EQUIPMENT WITH 7" W.C. PRESSURE. REFER TO PRESSURE REGULATOR SCHEDULE ON SHEET P6 FOR SIZING REQUIREMENTS. REFER TO REGULATOR MANUFACTURER'S INSTALLATION INSTRUCTION.
13. FIRE RISER INLET. REFER TO SPECIFICATIONS, FIRE PROTECTION AND CIVIL DRAWINGS FOR MORE INFORMATION.
14. FIRE RISER FLOOR AREA. REFER TO SPECIFICATIONS AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
15. CONNECT 4" STORM PIPE TO DOWNSPOUT (DS) AND EXTEND TO UNDERGROUND STORM PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR DOWNSPOUT SIZE. REFER TO DETAIL ON P5 FOR DOWNSPOUT SHOE.
16. 2" UNDERGROUND VENTS UP ON INTERIOR FACE OF WALL. EXTEND UP 6" ABOVE FIXTURE RIM LEVEL. PROVIDE WCO ON EACH VENT LINE ONCE VENT LINES ARE ABOVE GROUND. COMBINE VENTS INTO (1) 3" VENT AND ROUTE UP IN WALL TO ROOF. PROVIDE 3" VENT THROUGH ROOF.
17. PROVIDE PRE-CAST CONCRETE TWO COMPARTMENT 1,000 GALLON STATIC HOLDING CAPACITY WITH BOLTED AND GASKETED TRAFFIC RATED CAST IRON COVERS. EXTEND 2" VENT LINE FROM EACH COMPARTMENT OR PER MANUFACTURER'S INSTRUCTIONS. INSURE THAT ALL UNDERGROUND PIPING AND OIL INTERCEPTOR PRESERVES THE ADJACENT BUILDING'S FOOTING. MAINTAIN A 6' MINIMUM DISTANCE FROM ADJACENT BUILDING'S FOOTING TO PRESERVE STRUCTURAL INTEGRITY. OIL INTERCEPTOR AND OIL INTERCEPTOR INSTALLATION SHALL COMPLY WITH INTERNATIONAL PLUMBING CODE AND ALL LOCAL AMENDMENTS.
18. ROUTE 1" GAS PIPE UP THROUGH BOTTOM CONNECTION POINT ON RTU. PROVIDE EXTERIOR GAS SHUT-OFF, DIRT LEG AND, UNION FITTING PRIOR TO CONNECTION TO UNIT. COORDINATE WITH RESPECTED TRADES AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
19. PROVIDE TRAP SEAL PROTECTION FOR FD-2 IN ALIGNMENT PIT. OBTAIN WRITTEN APPROVAL FROM AHJ FOR USE OF SURE SEAL #SS3000 INLINE FLOOR DRAIN TRAP SEALER. IF SURE SEAL TRAP GUARD NOT ALLOWED PROVIDE TRAP PRIMMER.

PLUMBING GENERAL NOTES

1. SANITARY AND DOMESTIC WATER PIPE ROUTING ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING WITH FIELD CONDITIONS.
2. PROVIDE SHUTOFF VALVES IN EACH BRANCH USING BALL VALVES FOR WATER SUPPLY.
3. ROUTE ALL PIPING TIGHT TO CEILING AND WALLS WHERE POSSIBLE. ALL PIPING SHALL BE ABOVE GROUND ONCE ENTERING BUILDING. NO PIPING SHALL BE ROUTED IN UNCONDITIONED SPACES. ALL PIPING SHALL BE INSULATED.
4. MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OTHERS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
5. ALL EQUIPMENT, MATERIAL AND LABOR NECESSARY FOR COMPLETION OF PLUMBING SYSTEMS SHOWN ON DRAWINGS OR REFERRED TO IN SPECIFICATIONS TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
6. WHERE DRAWINGS OR SPECIFICATIONS EXCEED GOVERNING CODE REQUIREMENTS, DESIGN SHALL GOVERN. INSTALL NO WORK CONTRARY TO OR BELOW MINIMUM LEGAL STANDARDS, WHETHER DRAWINGS AND SPECIFICATION FULLY COMPLY OR NOT.
7. VERIFY FINAL LOCATIONS OF WATER SUPPLIES WITH FIXTURE PLAN AND CIVIL DRAWINGS
8. VERIFY THAT ALL PLUMBING PIPING DOES NOT AFFECT ALIGNMENT RACK PADS. VERIFY LOCATION OF ALL PLUMBING PIPING WITH ALIGNMENT RACK MANUFACTURER PRIOR TO INSTALLATION. COORDINATE ALL PLUMBING PIPING AND ALIGNMENT RACK INSTALLATION WITH ALL DISCIPLINES PRIOR TO INSTALLATION.
9. REFERENCE FIXTURE PLAN SHEET F1 FOR EQUIPMENT QUANTITIES AND LOCATIONS.

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NEW FCAC STORE
2020 ER
1762 STATE RD
SUMMERVILLE, SC

SOUTH CAROLINA — ACERTUS CONSULTING GROUP, LLC — No. 4407 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 25536 — RANDALL G. NELSON — 01/03/2020

ISSUE BLOCK

1	01/06/20	REV #1

PROPERTY NO.: 317910
6 DIGIT NO.: 799862
4 DIGIT NO.: 013K
AOR PROJECT NUMBER: 1955B67
TO PERMIT: DATE: 12-20-19
TO BID: DATE: ##-##-##

SHEET TITLE:
PLUMBING PLAN AND NOTES

SHEET NUMBER:
P1

Jan 03, 2020 – 9:39am – USER AaronAngel
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