

DESIGN PROFESSIONALS



ISSUE/REVISION RECORD

DATE	DESCRIPTION
01/25/19	PERMIT SET
03/16/20	REFRESH TO 2020.0113



PROJECT NAME

HWY 316 @ 81

**BETHLEHEM
 GA 30620
 839 LOGANVILLE HWY**

RACETRAC STORE NUMBER

#1304

**PROTOTYPE SERIES 5.5K 2.0
 2018 LH MO 0405**

PLAN MODIFICATION NOTICE

SPB NO. 0405 DATE 12/18/18

STANDARD PLAN BULLETINS (SPB) MODIFY THE PROTOTYPE SERIES SET NOTED ABOVE. THE LISTED SPB REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PROTOTYPE SERIES SET AT ORIGINAL RELEASE. THE ISSUE/REVISION RECORD COLUMN ABOVE LISTS ANY REVISIONS OR SPB INCORPORATED IN THIS SET AFTER THE ORIGINAL RELEASE. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ANY SUBSEQUENT BULLETINS NOT INCORPORATED HEREIN.

PROFESSIONAL SEAL

**PROJECT NUMBER
 2018157.19**

**SHEET TITLE
 PLUMBING NOTES
 AND LEGENDS**

SHEET NUMBER

P001

PLUMBING NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH 2018 IPC, APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMAN LIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL. ALL EXCAVATION AND BACKFILL, AS REQUIRED FOR THIS PHASE OF CONSTRUCTION, SHALL BE A PART OF THIS CONTRACT.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
- DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO THE ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- WATER DISTRIBUTION PIPING EXPOSED ABOVE GROUND AND BELOW GROUND SHALL BE ASTM B88 TYPE "L" COPPER. WATER DISTRIBUTION PIPING CONCEALED IN WALLS AND ABOVE CEILINGS SHALL BE ASTM D2846 CPVC, APPROVED FOR PORTABLE WATER USAGE. COORDINATE WITH LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS.
- DRAIN AND MANIFOLD PIPING UNDER 1-COMPARTMENT AND 3-COMPARTMENT SINKS SHALL BE TYPE "L" COPPER.
- SOIL, WASTE, AND VENT PIPING SHALL BE NO. 100 A74 CAST IRON OR ASTM D2665 PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED FIRE ASSEMBLIES OR IN APPLIQUES.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AS SHOWN ON DOMESTIC WATER ISOMETRIC, SIZED AND RATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WH-PDI 201.
- DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
- ISOLATE CUPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
- PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASES OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN FIRE RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
- PROVIDE COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS FINISH TO MATCH FIXTURE TRIM.
- ALL ISOLATION VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
- ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH 1/2" ARMAFLEX INSULATION. PVC PIPING WITH ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- WATER PIPING INSULATION SHALL BE 1" ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR ALL HOT WATER PIPING. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION, PER 2015 IECC.
- PLUMBING CONTRACTOR SHALL COORDINATE INVERT ELEVATION OF EXISTING SANITARY WASTE DRAINAGE PIPING WITH NEW PIPING PRIOR TO INSTALLATION.
- GENERAL CONTRACTOR TO SEAL ALL PENETRATIONS IN WALLS AND CEILINGS.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL QUICK CONNECTIONS / ISOLATION VALVES AT ALL BEVERAGE MACHINES.
- INDIRECT DRAIN LINES FROM FOUNTAINS, ICE MACHINES, COLD PANS, & OTHER REFRIGERATED MACHINES SHALL BE INSULATED.
- CONDENSATE LINES IN COOLERS AND FREEZERS SHALL BE INSULATED. INSTALL HEAT TRACE FOR CONDENSATE LINES IN FREEZER.

CONTRACTOR PROVIDED PLUMBING FIXTURE SCHEDULE

FD-1	ADJUSTABLE ON-GRADE FLOOR DRAIN, SQUARE, SIOUX CHIEF MODEL #832-35PND
FD-2	ADJUSTABLE ON-GRADE FLOOR DRAIN, ROUND, SIOUX CHIEF MODEL #832-35PNR
FS-1	12"X12"X10" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49360A-NB
FS-2	12"X12"X10" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49360A
FS-3	8"X8"X6" DEEP SQUARE GRATE FLOOR SINK WITH DOME STRAINER, JOSAM MODEL #49302-LF
TP	TRAP PRIMER, PRECISION PLUMBING PRODUCTS MODEL #PT-6. 120VAC REQUIRED.
HYD	WALL HYDRANT TO BE ZURN MODEL #Z1320-C WITH BOX, 6" WALL THICKNESS, 3/4" STRAIGHT INLET CONNECTION, ANTI-SIPHON, FREEZELESS
HYD-R	NON-FREEZE ROOF HYDRANT JAY R SMITH MODEL 5906-H 3/4" INLET CONNECTION, 1/8" DRAIN HOLE
RECIRC PUMP	BELL AND GOSSETT RECRIC. PUMP. MODEL NBF-22U, 115V, 100 WATT, WITH AQUASTAT. (HWRP-1)
FCO	FINISHED FLOOR CLEANOUT, ZURN Z1440-NH, CLEANOUT FERRULE W/BRONZE PLUG.
WCO	WALL CLEANOUT, ZURN MODEL #ZS1468 W/STAINLESS STEEL ACCESS COVER AND PLUG.
GCO	GRADE CLEANOUT, WADE MODEL #6000-12
MV-1 MIXING VALVE	ZURN MODEL P6900-TMV-1 WITH 3/8" INLETS/ OUTLETS, INTEGRAL CHECK VALVES AND STRAINER SCREEN. MIN. FLOW 0.30 GPM. MEETS ASSE 1070.
HD-1	ADJUSTABLE HUB DRAIN, ROUND, SIOUX CHIEF MODEL #832-3HHD
BFP-1	ZURN MODEL 740 ASSE 1022 DUAL CHECK VALVE

GENERAL NOTES:
 (1) - FIXTURES SHALL BE AS SHOWN
 (2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF IPC 2018.
 (3) - ALL FIXTURES TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE POLISHED CHROME FINISH THE SAME AS ZURN Z6930 FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
 (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4"
3 to 6	1/8"
8 or larger	1/16"

PER THE 2018 INTERNATIONAL PLUMBING CODE.
 *SLOPES FOR PIPE DRAINING TO A GREASE INTERCEPTOR SHALL COMPLY WITH SECTION 704.1

SHOCK ARRESTER SCHEDULE

P.D.L. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIOUX CHIEF 652-A	1-11	1/2"
B	SIOUX CHIEF 653-B	12-32	3/4"
C	SIOUX CHIEF 654-C	33-60	1"

SIOUX CHIEF SHOCK ARRESTERS ARE APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSII/ASSE STANDARD S.

WATER HEATER RECOVERY CALCULATION

FIXTURE	DEMAND (GPH)	QUANTITY	TOTAL (GPH)	NOTES
AVATORY	6.0	6	36	0.50 GPM AERATOR
HAND SINK	10.0	2	20	0.50 GPM AERATOR
3-COMP SINK	60.0	1	60	2.20 GPM AERATOR
1-COMP SINK	15.0	1	15	2.20 GPM AERATOR
MOP SINK	20.0	1	20	2.20 GPM AERATOR
			151	

151 GPH x 0.30 USAGE FACTOR = 45.3 GPH RECOVERY
 45.3 - GPH x 0.9 STORAGE FACTOR = 41 GAL TANK MINIMUM, 50 GAL TANK PROVIDED.
 9,000 WATTS
 2.42 x 90 F TEMP. RISE = 41.3 GPH RECOVERY PROVIDED.

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