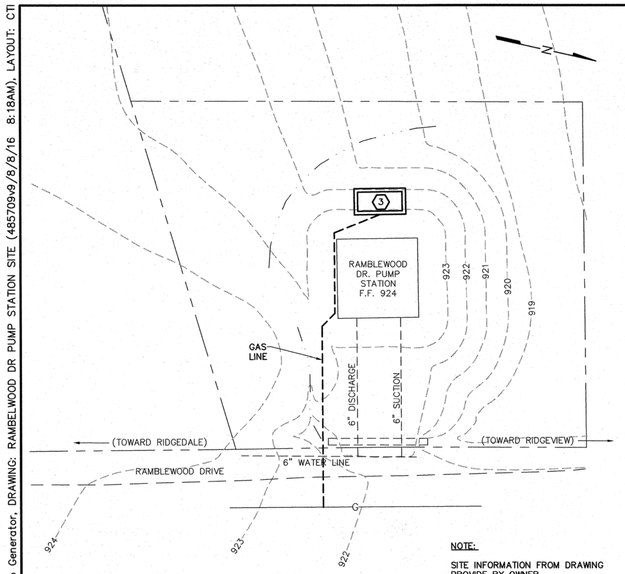
CTI PROJECT: G16016 (Floyd County Water) Ramblewood Booster PS Rehab and Backup Generator, DRAWING: RAMBLEWOOD DR PUMP STATION SITE (485709v9/8/8/16 8:18AM), LAYOUT: CTI
DATE OF PRINT: 8/8/2016 8:18 AM



NOTE:

SITE INFORMATION FROM DRAWING PROVIDE BY OWNER.

SITE PLAN
SCALE: 1" = 10'-0"

EQUIPMENT LEGEND

1. EXISTING 30A SIZE 1, 240 VOLT, 3ϕ, COMBINATION STARTER (TO REMAIN).
2. 100A, 3P, 240 VOLT, SN, HEAVY DUTY FUSED DISCONNECT SWITCH, NEMA 1, WITH 75A FUSES, SERVICE ENTRANCE RATED.
3. 25KW NATURAL GAS FUELED STANDBY GENERATOR, 120/240 VOLT, 3 PHASE, 4 W, WITH OUTDOOR SOUND ENCLOSURE, 100A CIRCUIT BREAKER, AND CRITICAL EXHAUST SILENCER. GENERAC QT SERIES, OR EQUAL.
4. 100A, 3P, 240 VOLT, SN HEAVY DUTY FUSED DISCONNECT SWITCH, NEMA 3R, WITH 75A FUSES.
5. 100A, 3ϕ, 240 VOLT AUTOMATIC TRANSFER SWITCH, NEMA 1 (FURNISHED BY GENERATOR SUPPLIER).
6. 125A, 120/240 VOLT, 3ϕ, 4W LOAD CENTER , 20-CIRCUIT, LUGS ONLY, NEMA 1. (SEE SCHEDULE).
7. EXISTING 30A, SIZE 1, 240 VOLT , 3ϕ, COMBINATION STARTER (RELOCATED).
8. VENTED NATURAL GAS WALL HEATER, 12-14,000 BTUH INPUT, WITH AUTO IGNITION, THERMOSTAT, SAFETY SHUTOFF, OUTDOOR AIR COMBUSTION, AND OUTDOOR VENT COVER AND OPTIONAL FAN.

LOAD CENTER SCHEDULE

30A, 3P – WATER PUMP STARTER

30A, 3P – WATER PUMP STARTER

15A, 1P – RECEPTACLES

15A, 1P – LIGHTING

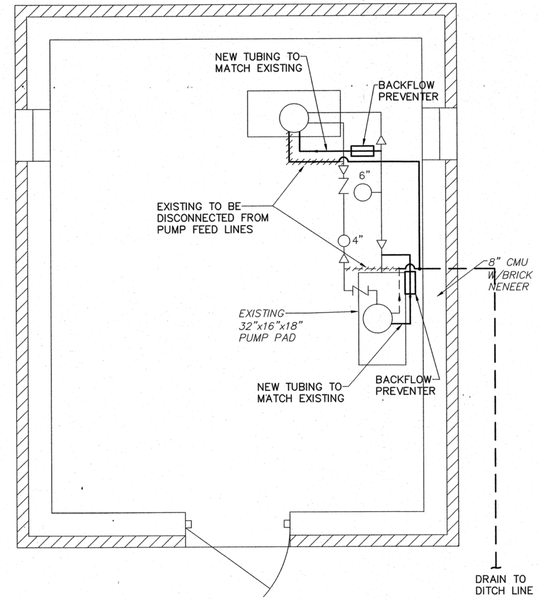
15A, 1P – BATTERY CHARGER

15A, 1P – ATS CONTROLS

20A, 1P – COOLANT HEATER

15A, 1P – SPARE

NOTE: DO NOT USE HIGH LEG FOR 120 VOLT BRANCH CIRCUITS. MARK HIGH LEG CONDUCTOR (ORANGE) AND AFFIX WARNING LABEL TO DOOR OF LOAD CENTER.

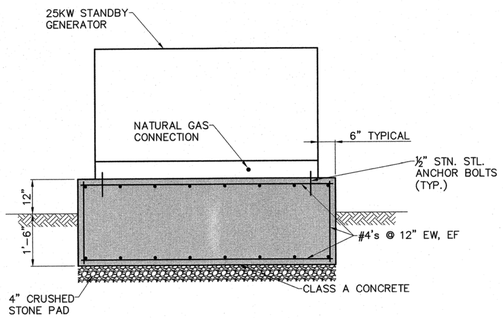


COOLING AND RETURN WATER REPLACEMENT PLAN
SCALE: ½" = 1'-0"

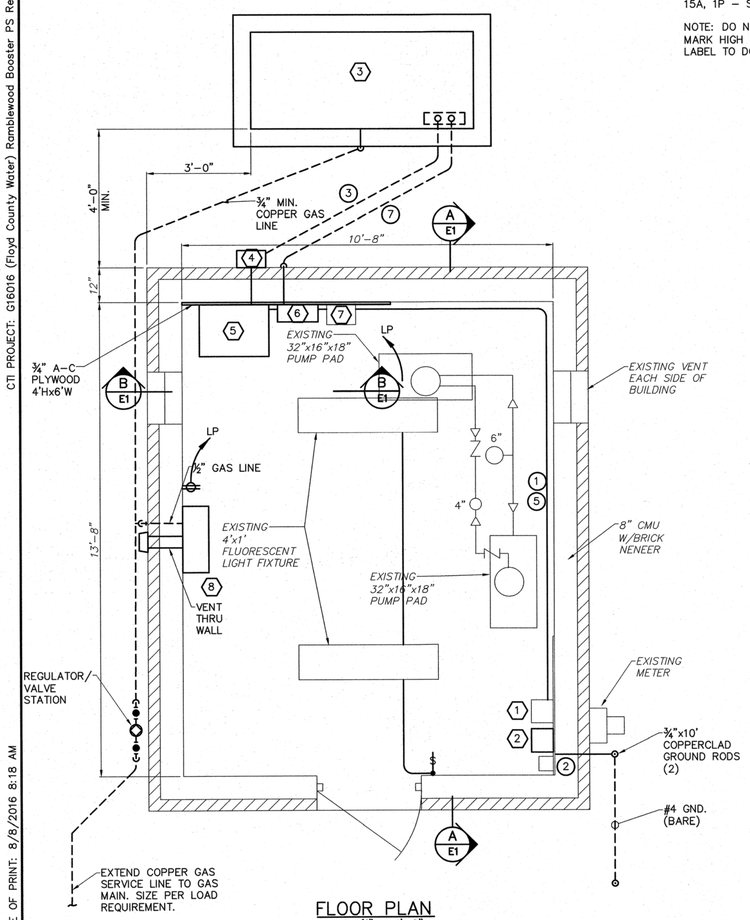
COOLING AND RETURN WATER NOTES:

1. DISCONNECT COOLING WATER PIPING FEEDS FROM PUMP STATION DISCHARGE LINE AND RETURNS FROM PUMP STATION FEED LINE.
2. INSTALL BACKFLOW PREVENTER WATTS 9D-1/2-M3 ON INLET COOLING LINES. FITTINGS AND CONNECTIONS AS REQUIRED.
3. ROUTE OUTLET COOLING THROUGH BLOCK AND BRICK TO DRAIN TO DAYLIGHT AT DITCH LINE. USE 4" SLOTTED DRAIN PIPE TO DRAIN FROM BUILDING TO DITCH. FITTINGS AND CONNECTIONS AS REQUIRED.

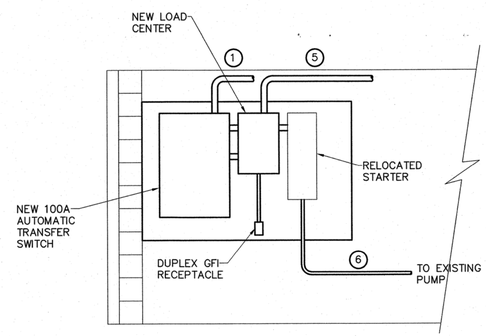
811 Know what's below. Call before you dig.



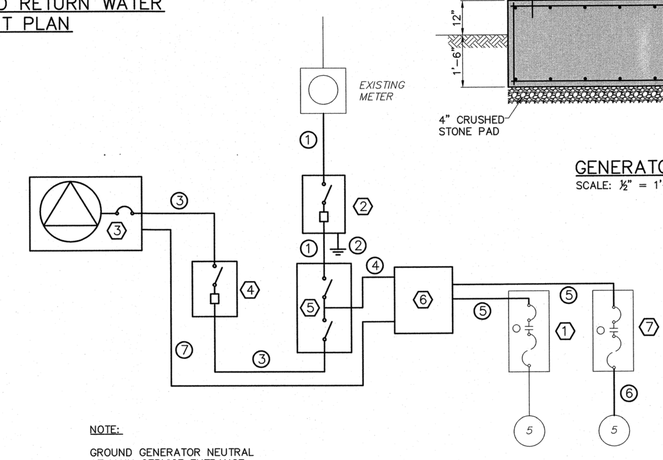
GENERATOR BASE
SCALE: ½" = 1'-0"



FLOOR PLAN
SCALE: ½" = 1'-0"



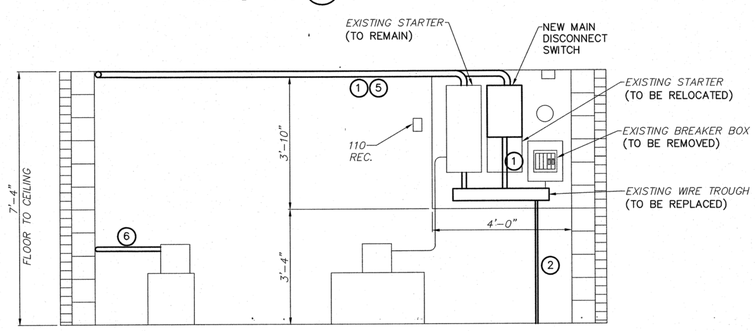
SECTION B/E1
SCALE: ½" = 1'-0"



NOTE:

GROUND GENERATOR NEUTRAL AT MAIN SERVICE ENTRANCE (NOT SEPARATELY DERIVED)

ONE-LINE DIAGRAM
NOT TO SCALE



SECTION A/E1
SCALE: ½" = 1'-0"

WIRING SCHEDULE

1. 3-#4, #4N, #4G, 1½"C
2. BARE #4, ¾"C
3. 3-#4, #4N, #4G, 1½"C
4. 3-#4, #4N, #4G, 1½"C
5. 3-#10, #10N, #10G, ¾"C
6. 3-#10, #10G, ¾"C
7. 4-#12, 2-#12, #10G, ¾"C *

* REFER TO GENERATOR WIRING DIAGRAM FOR REQUIRED CONTROL, HEATER, AND BATTERY CHARGER WIRING.

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL EXPOSED ELECTRICAL CONDUIT AND RELATED FITTINGS SHALL BE RIGID GALVANIZED STEEL. ENCASED BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
2. WIRING SHALL BE 600V COPPER, THWN-2 OR XHHW-2.
3. ALL ELECTRICAL SUPPORTS, FASTENERS AND HARDWARE SHALL BE STAINLESS STEEL.
4. ALL ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING SHALL BE UL LISTED.
5. ALL ELECTRICAL WORK SHALL COMPLY WITH NEC AND APPLICABLE STATE AND LOCAL ELECTRICAL CODES. ALL GAS WORK SHALL COMPLY WITH APPLICABLE STATE AND LOCAL GAS CODES.
6. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND GAS CONNECTIONS AND INSPECTIONS WITH APPROPRIATE AGENCIES AND PAY ALL COST ASSOCIATED WITH THE ELECTRICAL AND GAS SERVICE. COST SHALL BE INCLUDED IN LUMP SUM PRICE.
7. SEQUENCE WORK SO THAT AT LEAST ONE PUMP REMAINS IN OPERATION AT ALL TIMES DURING CONSTRUCTION.

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REVISIONS			
NO.	DESCRIPTIONS	DATE	BY	APP'D

DESIGN	GMC
DRAWN	JMD
CHECKED	LAP
APPROVED	GMC

RAMBLEWOOD DR. PUMP STATION STANDBY POWER FLOYD COUNTY, GA WATER DEPARTMENT

ELECTRICAL PLAN

CTI ENGINEERS, INC.
243 N. HAMILTON ST. SUITE 1
DALTON, GEORGIA 30720
706-278-8110

GEORGIA REGISTERED PROFESSIONAL ENGINEER GARY M. COSBY 8/8/16

JOB NO.	G16016
ISSUE DATE	7/26/16
SCALE	AS NOTED
DRAWING NO.	E1