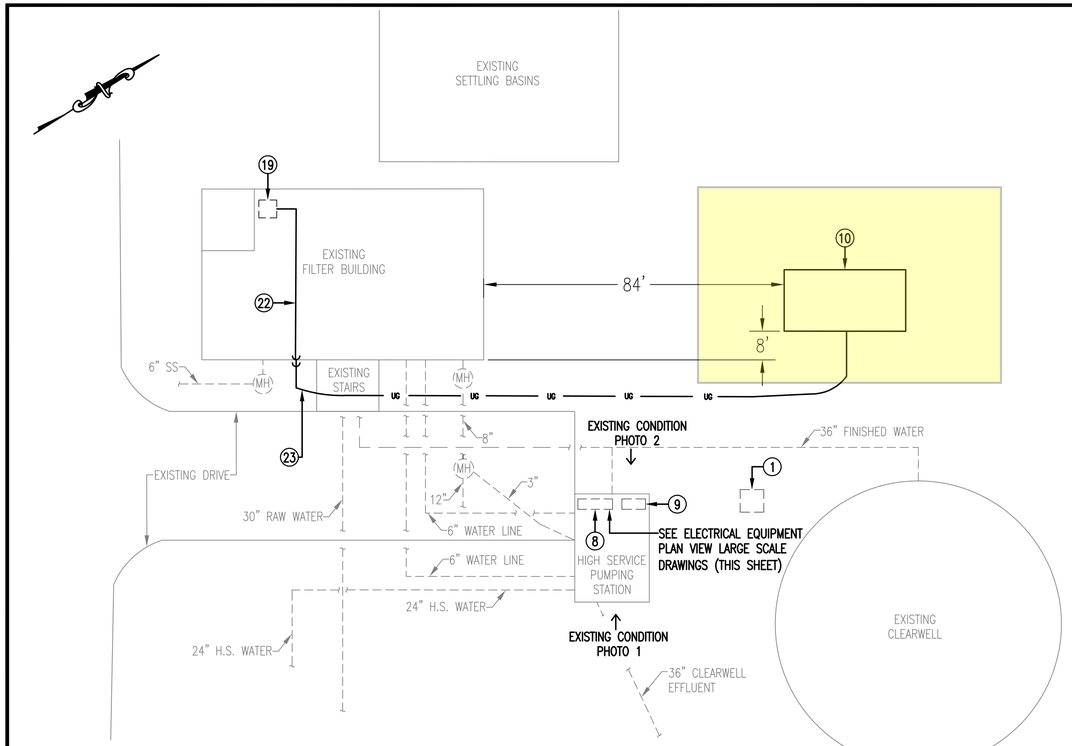
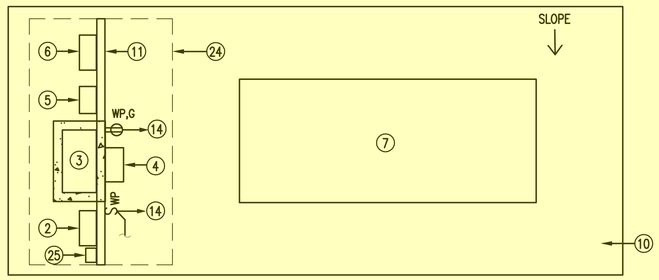


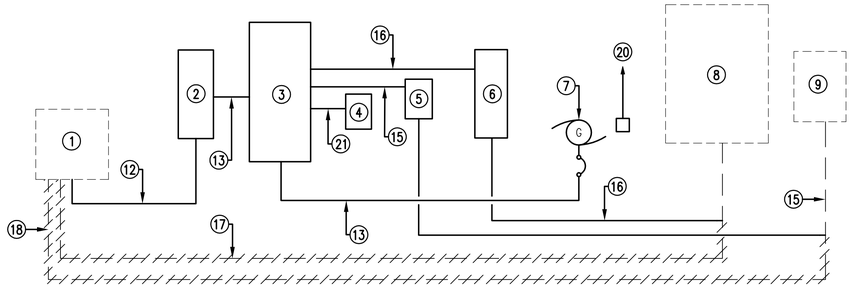
DEMOLITION & NEW WORK SITE PLAN

SCALE: 1"= 20' 0 10' 20' 40'



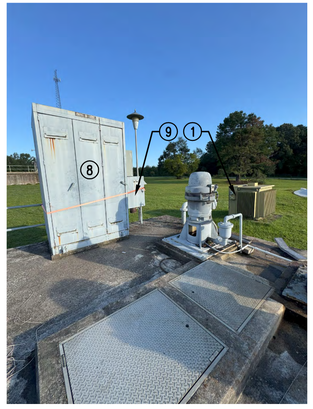
NEW WORK ELECTRICAL EQUIPMENT PLAN VIEW

SCALE: 1/4" = 1'



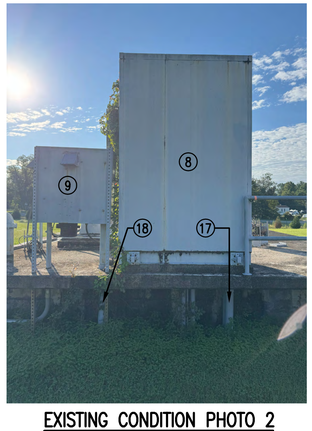
DEMOLITION & NEW WORK ELECTRICAL RISER

SCALE: NONE



EXISTING CONDITION PHOTO 1

SCALE: NONE



EXISTING CONDITION PHOTO 2

SCALE: NONE

NOTES:

(#) (THIS SHEET ONLY)

1. EXISTING POWER COMPANY PAD–MOUNTED TRANSFORMER TO REMAIN. COORDINATE WITH POWER COMPANY TO MAKE NEW CONNECTIONS TO EXISTING TRANSFORMER.
2. NEW 480V, 1200AF/1000AT ENCLOSED CIRCUIT BREAKER SERVICE DISCONNECT IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 42,000 AMPERES SYMMETRICAL. BREAKER SHALL HAVE ADJUSTABLE LSIG SETTINGS. PROVIDE #6 GROUNDING CONDUCTOR TO (3) 3/4" DIAMETER X 10' GROUND RODS NOT LESS THAN 10' APART.
3. NEW 480V, 1200A AUTOMATIC TRANSFER SWITCH IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 42,000 AMPERES SYMMETRICAL. PROVIDE 3/4" C. AND CONDUCTORS AS REQUIRED FOR START/STOP SIGNAL TO GENERATOR. PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD TO EXTEND BEYOND ATS.
4. NEW 10 KVA, 480V–240/120V MINI–POWER ZONE IN NEMA 3R ENCLOSURE. PROVIDE WITH MAIN BREAKER AND ONE 20A/1P BREAKER FOR LIGHTS, ONE 20A/1P BREAKER FOR RECEPTACLE, ONE 20A/1P BREAKER FOR GENERATOR BATTERY CHARGER AND THREE 20A/1P BREAKERS SPARE.
5. NEW 480V, 250A ENCLOSED CIRCUIT BREAKER IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 42,000 AMPERES SYMMETRICAL. BREAKER SHALL HAVE ADJUSTABLE LSI SETTINGS.
6. NEW 480V, 800A ENCLOSED CIRCUIT BREAKER IN NEMA 4X STAINLESS STEEL ENCLOSURE RATED 42,000 AMPERES SYMMETRICAL. BREAKER SHALL HAVE ADJUSTABLE LSI SETTINGS.
7. NEW PAD–MOUNTED NATURAL GAS GENERATOR. SEE SPECIFICATION 16310 PARAGRAPH 1.5 FOR SIZE AND VOLTAGE. CITY OF DUBLIN IS RESPONSIBLE FOR ALL NATURAL GAS WORK.
8. EXISTING 480V, 800A MOTOR CONTROL CENTER TO REMAIN.
9. EXISTING 480V, 225A COMBINATION MOTOR STARTER/DISCONNECT TO REMAIN.
10. NEW CONCRETE PAD FOR GENERATOR AND ELECTRICAL EQUIPMENT STRUCTURE. PAD SHALL EXTEND 4' BEYOND FOOTPRINT OF ALL EQUIPMENT. PROVIDE 8' CLEAR FROM GENERATOR TO CENTER OF ELECTRICAL EQUIPMENT STRUCTURE. SLOPE PAD AT 1/16" PER 1'–0".
11. NEW 4" ALUMINUM CHANNEL EQUIPMENT SUPPORT STRUCTURE. NEW VERTICAL CHANNEL SHALL BE INSTALLED IN A FOOTING OF 12" DIAMETER X 18" DEEP, MINIMUM.
12. NEW 3 SETS:4#500KCMIL; 3–1/2" C.
13. NEW 3 SETS:4#500KCMIL, #3/0G; 3–1/2" C.
14. NEW 2#12, #12G; 1/2" C. TO MINI–POWER ZONE.
15. NEW 4#250KCMIL, #4G; 2–1/2" C.
16. NEW 2 SETS:4#500KCMIL, #2/0G; 3–1/2" C.
17. EXISTING 2 SETS:4#500KCMIL; 3–1/2" C. TO BE REMOVED. UNDERGROUND CONDUIT TO BE ABANDONED IN PLACE. CONNECT TO EXISTING CONDUIT BELOW HIGH SERVICE PUMP PLATFORM.
18. EXISTING 4#250KCMIL; 3–1/2" C. TO BE REMOVED. UNDERGROUND CONDUIT TO BE ABANDONED IN PLACE. CONNECT TO EXISTING CONDUIT BELOW HIGH SERVICE PUMP PLATFORM.
19. EXISTING SCADA PANEL. CONNECT GENERATOR GENERAL ALARM TO EXISTING SCADA SYSTEM.
20. NEW 2#12, #12; 3/4" C. TO MINI–POWER ZONE FOR GENERATOR BATTERY CHARGER.
21. 2#10, #10G; 3/4" C.
22. ROUTE EXPOSED INSIDE OF FILTER BUILDING.
23. UNDERGROUND TO GENERATOR. BORE UNDER EXISTING STAIR/SIDEWALK.
24. PROVIDE NEW EQUIPMENT STRUCTURE SHELTER PER DETAILS ON SHEET S0. PROVIDE FOUR NEW LITHONIA CSVT L48 5000LM MVOLT 40K 80CRI LIGHT FIXTURES UNDER NEW SHELTER CONNECTED TO NEW LIGHT SWITCH.
25. NEW SURGE SUPPRESSOR. PROVIDE CONDUCTORS AND CONDUIT AS RECOMMENDED BY MANUFACTURER AND CONNECT TO SERVICE DISCONNECT

REVISION	ITEM	DATE

GEORGIA REGISTERED NO. 045281 PROFESSIONAL ENGINEER PAUL E. WHITMIRE

SHEET: DEMOLITION & NEW WORK PLANS - SURFACE WATER TREATMENT PLANT

590 MEANS STREET NW
STE. 200
ATLANTA, GA 30318
TOLAND MIZELL MOLNAR

PROJECT: FIXED AND PORTABLE GENERATOR INSTALLATIONS

JOB NO:	TMM 2507
DATE:	02–06–26
DRAWN:	FSD
CHECKED:	PEW
APPROVED:	RBP
SCALE:	AS NOTED

SHEET E13