CONTRACT DOCUMENTS FOR CONSTRUCTION OF THE

FY 21 MULTIPLE PUMP STATIONS PROJECTS PROJECT NO. S5036



Prepared for the

COBB COUNTY WATER SYSTEM

COBB COUNTY, GEORGIA

VOLUME 2 OF 2 - DRAWINGS

For information regarding this project, contact:

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JACOBS Project No. JJX13603 AUGUST 2020

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ALLATOONA BEACH PUMP STATION PUMP STATION LAYOUT 60-C-01 60-E-01 60-E-02

ALLATOONA BEACH PUMP STATION ELECTRICAL SITE PLAN ALLATOONA BEACH PUMP STATION ONE-LINE DIAGRAM AND ELECTRICAL EQUIPMENT BUILDING LAYOUT ALLATOONA BEACH PUMP STATION PHOTO DETAILS

60-E-03

WEST HAMPTON #1 PUMP STATION

WEST HAMPTON #1 PUMP STATION LAYOUT WEST HAMPTON #1 PUMP STATION ELECTRICAL SITE PLAN WEST HAMPTON #1 PUMP STATION ONE-LINE DIAGRAM WEST HAMPTON #1 PUMP STATION PHOTO DETAILS 65-C-01 65-E-01 65-E-02 65-E-03

WEST HAMPTON #2 PUMP STATION

WEST HAMPTON #2 PUMP STATION LAYOUT WEST HAMPTON #2 PUMP STATION ELECTRICAL SITE PLAN WEST HAMPTON #2 PUMP STATION ONE-LINE DIAGRAM WEST HAMPTON #2 PUMP STATION PHOTO DETAILS 70-E-01 70-E-02 70-E-03

WOODY VALLEY PUMP STATION

75-C-01 75-E-01 75-E-02 WOOD VALLEY PUMP STATION LAYOUT WOOD VALLEY PUMP STATION ELECTRICAL SITE PLAN WOOD VALLEY PUMP STATION ONE-LINE DIAGRAM AND

ELECTRICAL EQUIPMENT BUILDING LAYOUT 75-E-03 WOOD VALLEY PUMP STATION PHOTO DETAILS



ALLATOONA BEACH

5112 ALLATOONA DRIVE ACWORTH GA. 30101



PLANT ATKINSON ROAD

401 PLANT ATKINSON ROAD, SMYRNA GA. 30080



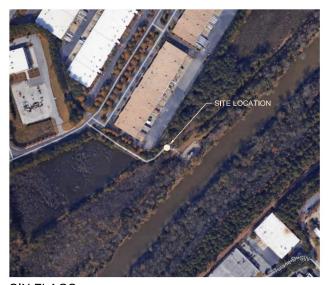
WEST HAMPTON #2

170 WESTWOOD DRIVE MARIETTA, GA 30064



BRUSHY MOUNTAIN PUMP HOUSE

1751 NOONDAY CHURCH ROAD.



SIX FLAGS 8110 TROON CIRCLE AUSTELL GA. 30168



WOOD VALLEY 4539 WOODVALLEY DRIVE ACWORTH GA. 30101



MARINA TRACE 1062 TASO TRAIL, NW ACWORTH GA. 30101



WEST HAMPTON #1 3557B WEST HAMPTON DRIVE, MARIETTA, GA 30064

LOCATION MAP, DRAWING INDEX CALE
VCH ON
AWNIG.

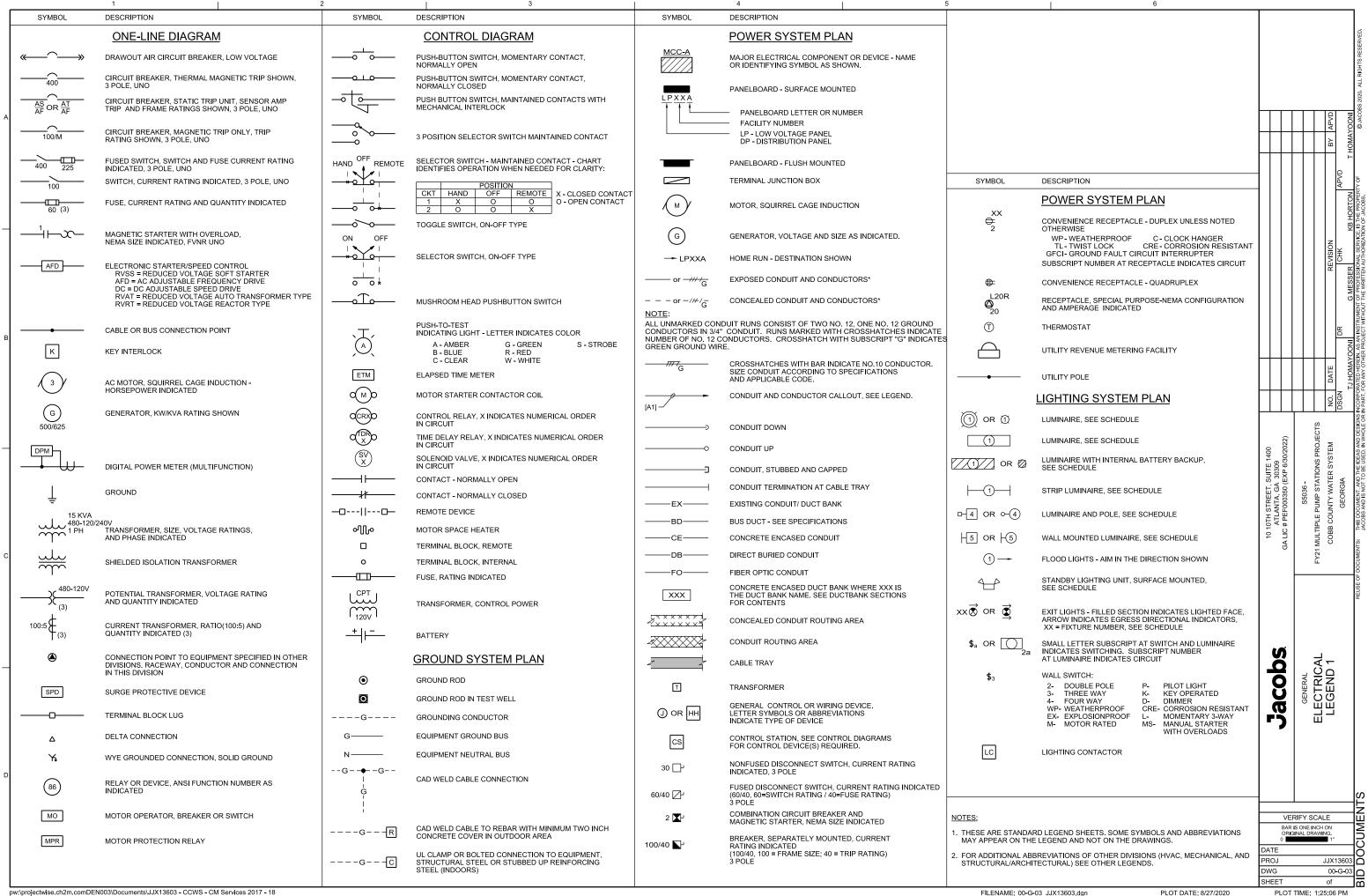
JUNE 2020

JJX13603 VERIFY SCALE BAR IS ONE INCH ON 00-G-01 of PLOT TIME: 1:25:24 PM

Jacobs

	1		2		3	4	 5	6	
ABBREVIAT	ION DESCRIPTION	ABBREVIA	TION DESCRIPTION	ABBREVIA	TION DESCRIPTION		 		
			ABBREVIATIONS						
		_							
A AB SW	AMPERE, AUTOMATIC AIR-BREAK SWITCH	G GALV	GROUND GALVANIZED	O OCA	OPEN OPEN-CLOSE-AUTO				
ABV AC	ABOVE ALTERNATING CURRENT	GEN GFCI	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	OCB OCR	OIL CIRCUIT BREAKER OVERCURRENT RELAY				
ACB ACSR	AIR-CIRCUIT BREAKER ALUMINUM CONDUCTOR	GFR GND	GROUND FAULT RELAY GROUND	OHM OL	OHMMETER OVERLOAD RELAY				
ADJ	STEEL-REINFORCED ADJUSTABLE	GPR GRS	GENERATOR PROTECTOR RELAY GALVANIZED RIGID STEEL CONDUIT	00 00A	ON-OFF ON-OFF-AUTO				\vdash
AF AFD	AMPERE FRAME ADJUSTABLE FREQUENCY DRIVE	Н	HIGH SPEED	OOR OS	ON-OFF-REMOTE OCCUPANCY SENSOR				
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	HGT HH	HEIGHT HANDHOLE	PB	PULL BOX				
AHM AHU	AMPERE-HOUR METER AIR HANDLING UNIT	HID HMI	HIGH INTENSITY DISCHARGE HUMAN-MACHINE INTERFACE	PC PCC	PHOTOCELL POINT OF COMMON COUPLING				
AL AM	ALUMINUM AMMETER	HOA HOR	HAND-OFF-AUTO HAND-OFF-REMOTE	PCB PF	POWER CIRCUIT BREAKER POWER FACTOR				
AMPL ANN	AMPLIFIER ANNUNCIATOR	HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	PH PLC	PHASE PROGRAMMABLE LOGIC CONTROLLER				
ANT APPROX	ANTENNA APPROXIMATE	HS HV	HAND SWITCH HIGH VOLTAGE	PNL POT	PANEL POTENTIOMETER				
AS ASC	AMMETER SWITCH, AMPERE SENSOR AUXILIARY SWITCH NORMALLY CLOSED	HVAC	HEATING, VENTILATING & AIR CONDITIONING	PP PS	POWER PACK PRESSURE SWITCH				
ASO ASU	AUXILIARY SWITCH NORMALLY OPEN AIR SUPPLY UNIT	HZ	HERTZ	PT PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE				
ATC	AUTOMATIC TRANSFER CONTROL AMPERE TRIP	IAW IC	IN ACCORDANCE WITH	PWR	POWER				
AT ATS AUTO	AMPERE TRIP AUTOMATIC TRANSFER SWITCH AUTOMATIC	I & C IMC	INTERRUPTING CAPACITY INSTRUMENTATION AND CONTROL	R	RELAY,REVERSE,RUN,RAISE				
AUX	AUXILIARY	INCAND	INTERMEDIATE METALLIC CONDUIT INCANDESCENT	RCPT REF	RECEPTACLE REFERENCE				
AWG	AMERICAN WIRE GAGE	INST INT	INSTANTANEOUS INTERRUPTING	REM RGS	REMOTE RIGID GALVANIZED STEEL CONDUIT				
BAT BC	BARTERY BARE COPPER BASIC IMPULSE LEVEL	ISR	INTRINSICALLY SAFE RELAY	RIO RMS	REMOTE INPUT/OUTPUT ROOT MEAN SQUARE				
BIL BKR	BASIC IMPULSE LEVEL BREAKER	J,JB	JUNCTION BOX	RPM RTU	REVOLUTIONS PER MINUTE REMOTE TELEMETRY UNIT				
BLDG BOT	BUILDING BOTTOM	K KA	KEY INTERLOCK KILOAMPERES	RTD RVNR	RESISTANCE TEMPERATURE DETECTOR REDUCED VOLTAGE NON-REVERSING				
C	CONDUIT, CONTACTOR,	KAIC KCM	KILOAMPERES INTERRUPTING CAPACITY THOUSAND CIRCULAR MILS	RVR	REDUCED VOLTAGE REVERSING				
СВ	CONDUCTOR, CLOSE, CENTIGRADE CIRCUIT BREAKER	KV KVA	KILOVOLTS KILOVOLT AMPERES	SA SC	SURGE ARRESTER SPEED CONTROL				
CC CCS	CONTROL CABLE CENTRAL CONTROL SYSTEM	KW KWH	KILOWATTS KILOWATT HOURS	SCADA	SUPERVISORY CONTROL AND DATA ACQUITION SYSTEM				
CKT CLF	CIRCUIT CURRENT LIMITING FUSE	KWHD	KILOWATT HOURS DEMAND	SCU SF	SPEED CONTROL UNIT SUPPLY FAN				HH
CLG COM	CEILING COMMUNICATIONS	L	LIGHTING CONTACTOR, LOW SPEED, LOWER	SH S/N	SPACE HEATER SOLID NEUTRAL				
	G CONNECTION DIAGRAM CONTINUE	LC LCP	LIGHTING CONTROLLER, LATCH COIL LOCAL CONTROL PANEL	SOL SP	SOLENOID SPARE				
CP CPT	CONTROL PANEL CONTROL POWER TRANSFORMER	LE LIT	LEVEL ELEMENT LEVEL INDICATING TRANSMITTER	SPD SS	SPEED START STOP				<u>8</u>
CPU CR	CENTRAL PROCESSING UNIT CONTROL RELAY	LOR LP	LOCAL-OFF-REMOTE LIGHTING PANEL	SST ST	STAINLESS STEEL SHUNT TRIP				400
CS CT	CONTROL RELAT CONTROL STATION:C=CLOSE, T=TRIP CURRENT TRANSFORMER. CABLE TRAY	LPS LR	LOW PRESSURE SODIUM	SUB SV	SUBSTATION				TE 14 309 , 6/30
CU	COPPER	LS LT	LOCAL/REMOTE LIMIT SWITCH, LEVEL SWITCH	SW	SOLENOID VALVE SWITCH SWITCHBOARD				; SUITE A 30309 (EXP 6/
DC	DIRECT CURRENT	LT FLEX	LEVEL TRANSMITTER LIQUID-TIGHT FLEX CONDUIT	SWBD SWGR	SWITCHBOARD SWITCHGEAR SYMMETPICAL				REET, 3
DCS DIV	DISTRIBUTED CONTROL SYSTEM DIVISION	М	MAGNETIC CONTACTOR COIL,	SYMM	SYMMETRICAL				0TH STREE ATLANTA, # PEF00036
DN DP	DOWN DISTRIBUTION PANEL DOUBLE FOLE POLICE TUROW	MA	MOTOR, MANUAL MILLIAMPERE	T TB	THERMOSTAT, TRANSFORMER TERMINAL BOARD, TEST BLOCK				
DPDT DPST	DOUBLE-POLE DOUBLE-THROW DOUBLE-POLE SINGLE-THROW	MAN MAU	MANUAL MAKE-UP AIR UNIT	TD TDC	TEMPERATURE DETECTOR, TIME DELAY TIME-DELAY CLOSING				10 1 GA LIC
DS	DISCONNECT SWITCH	MAX MCC	MAXIMUM MOTOR CONTROL CENTER	TDO TDR	TIME-DELAY OPENING TIME DELAY RELAY				ا ق
E EA	EMPTY EACH	MDC MECH	MOTORIZED DAMPER CONTROL MECHANICAL	TEL TEMP	TELEPHONE TEMPERATURE				
EDH EF	ELECTRIC DUCT HEATER EXHAUST FAN	MFR MH	MANUFACTURER MANHOLE, METAL HALIDE,	TJB TSP	TERMINAL JUNCTION BOX TWISTED SHIELDED PAIR				
EG EL	ENGINE GENERATOR ELEVATION	MIN	MOUNTING HEIGHT MINIMUM	TST TVSS	TWISTED SHIELDED TRIAD TRANSIENT VOLTAGE				
ELEC ELEM	ELECTRIC ELEMENTARY	MO MOP	MOTOR OPERATOR MOTOR OPERATED POTENTIOMETER	TYP	SURGE SUPPRESSOR TYPICAL				
EMER EMS	EMERGENCY ENERGY MONITORING SYSTEM	MOV	METAL OXIDE VERISTOR, MOTOR OPERATED VALVE	UC	UNLATCH COIL				
EMT EMU	ELECTRICAL METALLIC TUBING ENERGY MONITORING UNIT	MPR MRCT	MOTOR PROTECTION RELAY MULTI RATIO CURRENT TRANSFORMER	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE				
ENCL EO	ENCLOSURE ELECTRIC OPERATED.	MS MSC	MOTOR STARTER MANUFACTURER SUPPLIED CABLE	UPS UVR	UNINTERRUPTIBLE POWER SUPPLY UNDER VOLTAGE RELAY				Q
- FP	ELECTRIC OPERATOR EXPLOSION-PROOF	MT MTD	MOUNTED	V	VOLTAGE, VOLTS				요
EQPT ETM	EQUIPMENT ELAPSED TIME METER	MTS MV	MANUAL TRANSFER SWITCH MEDIUM VOLTAGE	V VCB VFD	VACUUM CIRCUIT BREAKER VARIABLE FREQUENCY DRIVE				
EUH EXH	ELAPSED TIME METER ELECTRIC UNIT HEATER EXHAUST	MVA	MEGA-VOLT AMPERES	VFD VIB VM	VARIABLE FREQUENCY DRIVE VIBRATION VOLTMETER				
EXST	EXISTING	N NA	NEUTRAL, NORMAL NON-AUTOMATIC	VR	VOLTAGE REGULATOR				- 2
E ₄	FORWARD, FREQ	NC	NORMALLY CLOSED	VS W	VOLTMETER SWITCH				'
FA FACP	FIRE ALARM FIRE ALARM CONTROL PANEL	NEC NESC	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL SAFETY CODE	W WHD	WATTS WATT HOUR DEMAND METER				
FDR FF	FEEDER FINISHED FLOOR	NEUT NIC	NEUTRAL NOT IN CONTRACT	WM WP	WATTMETER WEATHERPROOF				
FI FLEX	FLOW INDICATOR FLEXIBLE CONDUIT	N.O. NP	NORMALLY OPEN NAMEPLATE	XD	TRANSDUCER				
FLR FLUOR	FLOOR FLUORESCENT	NTS	NOT TO SCALE	XFMR XPDR	TRANSFORMER TRANSPONDER				
FPR FO	FEEDER PROTECTOR RELAY FIBER OPTIC			Z	IMPEDANCE		NOTES:	NTACT ENGINEER FOR ABBREVIATIONS USED	
FP FREQ	FIELD PANEL FREQUENCY			ZS	POSITION SWITCH			T NOT SHOWN ON THIS DRAWING.	VERI
FS FT	FLOAT SWITCH FLOW TRANSMITTER						(SENERAL NOTE:	BAR IS ORIGIN 0
FU FVNR	FUSE FULL VOLTAGE NON-REVERSING						_	THIS IS A STANDARD LEGEND SHEET.	DATE
FVR FWD	FULL VOLTAGE REVERSING FORWARD						''	THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.	PROJ
5								CHOWN WAT BE GOLD ON THIS PROJECT.	DWG SHEET

GENERAL ABBREVIATIONS



CIRCUIT AND RACEWAY

GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

	PO	WER CIRCL	IT CALLOUTS		EMPTY CONDUIT
[P1]	[1/2"FLEX, 2#12,#12G]	[P26]	[1"C,3#8,5#14,1#10G]	[EC-1]	[3/4"C,WITH PULL STRING]
[P2]	[3/4"C,2#12,1#12G]	[P27]	[1"C,2#6, 1#10G]	[EC-2]	[1"C,WITH PULL STRING]
[P3]	[3/4"C,3#12,1#12G]	[P28]	[1"C,3#6, 1#8G]	[EC-3]	[1 1/4"C,WITH PULL STRING]
[P4]	[3/4"C,4#12,1#12G]	[P29]	[1"C,3#6, 2#14,1#8G]	[EC-4]	[1 1/2"C,WITH PULL STRING]
[P5]	[3/4"C,5#12,1#12G]	[P30]	[1"C,3#6, 3#14,1#8G]	[EC-5]	[2"C,WITH PULL STRING]
[P6]	[3/4"C,6#12,1#12G]	[P31]	[1"C,3#6, 4#14,1#8G]	[EC-6]	[3"C,WITH PULL STRING]
[P7]	[3/4"C,7#12,1#12G]	[P32]	[1"C,3#6, 5#14,1#8G]	[EC-7]	[4"C,WITH PULL STRING]
[P8]	[3/4"C,8#12,1#12G]	[P33]	[1"C,3#4,1#8G]	[EC-8]	[5"C,WITH PULL STRING]
[P9]	[3/4"C,3#12,2#14,1#12G]	[P34]	[1 1/4"C,3#4,3#14,1#8G]		
[P10]	[3/4"C,3#12,3#14,1#12G]	[P35]	[1 1/4"C,3#4,5#14,1#8G]		
[P11]	[3/4"C,3#12,4#14,1#12G]	[P36]	[1 1/4"C,3#3, 1#6G]		
[P12]	[3/4"C,3#12,5#14,1#12G]	[P37]	[1 1/4"C,3#3, 3#14,1#6G]		
[P13]	[3/4"C,3#12,6#14,1#12G]	[P38]	[1 1/4"C,3#2, 1#6G]		
[P14]	[3/4"C,3#12,7#14,1#12G]	[P39]	[1 1/4"C,3#1, 1#6G]		
[P15]	[3/4"C,2#10,1#10G]	[P40]	[1 1/2"C,4#2, 1#6G]		
[P16]	[3/4"C,3#10,1#10G]	[P41]	[1 1/2"C,3#2/0, 1#4G]		
[P17]	[3/4"C,3#10,2#14,1#10G]	[P42]	[2"C,3#3/0, 1#4G]		
[P18]	[3/4"C,3#10,3#14,1#10G]	[P43]	[2"C,3#4/0, 1#3G]		
[P19]	[3/4"C,3#10,4#14,1#10G]	[P44]	[2 1/2"C, 4#4/0, 1#4G]		
[P20]	[3/4"C,3#10,5#14,1#10G]	[P45]	[2"C, 4#3/0, 1#4G]		
[P21]	[1"C,2#8,1#10G]	[P46]	[1 1/2"C, 4#1/0, 1#6G]		
[P22]	[1"C,3#8,1#10G]	[P47]	[3"C, 4#500KCM, 1#4G]		
[P23]	[1"C,3#8,2#14,1#10G]	[P48]	[4"C, 3#350KCM, 1#3G]		
[P24]	[1"C,3#8,3#14,1#10G]	[P49]	[2 EA [3"C, 3#350KCM, 1#1G]		
[P25]	[1"C,3#8,4#14,1#10G]	[P50]	2 EA [2"C, 3#4/0, 1#2G]		
[· =-1	[,,,,		[,,]		
	ANALOG CIRCUIT CALLOUTS		CONTROL CIRCUIT CALLOUTS	MULTICONDU	ICTOR CONTROL CABLE CIRCUIT CALLOUTS
[A1]	[3/4"C,1 TYPE 3]		[C1] [3/4"C,MSC]	[CC5]	[3/4"C,1-5C TYPE 1]
[A2]	[1"C,2 TYPE 3]		[C2] [3/4"C,2#14,1#14G]	[CC7]	[3/4"C,1-7C TYPE 1]
[A3]	[1"C,3 TYPE 3]		[C3] [3/4"C,3#14,1#14G]	[CC9]	[1"C,1-9C TYPE 1]
[A4]	[1"C,4 TYPE 3]		[C4] [3/4"C,4#14,1#14G]	[CC12]	[1"C,1-12C TYPE 1]
[A5]	[1 1/4"C,5 TYPE 3]		[C5] [3/4"C,5#14,1#14G]	[CC19]	[1 1/2"C, 1-19C TYPE 1]
[A6]	[1 1/4"C,6 TYPE 3]		[C6] [3/4"C,6#14,1#14G]	[CC25]	[1 1/2"C,1-25C TYPE 1]
[A7]	[1 1/2"C,7 TYPE 3]		[C7] [3/4"C,7#14,1#14G]	[CC37]	[2"C,1-37C TYPE 1]
[A8]	[1 1/2"C,8 TYPE 3]		[C8] [3/4"C,8#14,1#14G]	[CCC1]	[1-7C #12 TYPE 1]
[A9]	[1 1/2"C,9 TYPE 3]		[C9] [3/4"C,9#14,1#14G]		
[A10]	[2"C,10 TYPE 3]		[C10] [3/4"C,10#14,1#14G]		
[A11]	[2"C,11 TYPE 3]		[C11] [3/4"C,11#14,1#14G]		
[A12]	[2"C,12 TYPE 3]		[C12] [3/4"C,12#14,1#14G]		
[A13]	[2"C,13 TYPE 3]		[C13] [3/4"C,13#14,1#14G]		
1	[2][C 44 TVDE 2]		[C14] [3/4"C,14#14,1#14G]		
A 4	[2 U, 14 I TPE 3]		[011] [0110,1111,11110]		
[A14] [A15]	[2"C,14 TYPE 3] [3/4"C.1 TYPE 4]		[C15] [3/4"C 15#14 1#14G]		
[A15]	[3/4"C,1 TYPE 4]		[C15] [3/4"C,15#14,1#14G]		
[A15] [A16]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4]		[C16] [3/4"C,16#14,1#14G]		
[A15] [A16] [A17]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G]		
[A15] [A16] [A17] [A18]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G]		
[A15] [A16] [A17] [A18] [A19]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G]		
[A15] [A16] [A17] [A18] [A19] [A20]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G] [C20] [1"C,20#14,1#14G]		
[A15] [A16] [A17] [A18] [A19] [A20] [A21]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G] [C20] [1"C,20#14,1#14G] [C21] [1"C,21#14,1#14G]		
[A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G] [C20] [1"C,20#14,1#14G] [C21] [1"C,21#14,1#14G] [C22] [1"C,22#14,1#14G]		
[A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] [A23]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G] [C20] [1"C,20#14,1#14G] [C21] [1"C,22#14,1#14G] [C22] [1"C,22#14,1#14G] [C23] [1"C,23#14,1#14G]		
[A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]		[C16] [3/4"C,16#14,1#14G] [C17] [3/4"C,17#14,1#14G] [C18] [3/4"C,18#14,1#14G] [C19] [3/4"C,19#14,1#14G] [C20] [1"C,20#14,1#14G] [C21] [1"C,21#14,1#14G] [C22] [1"C,22#14,1#14G]		

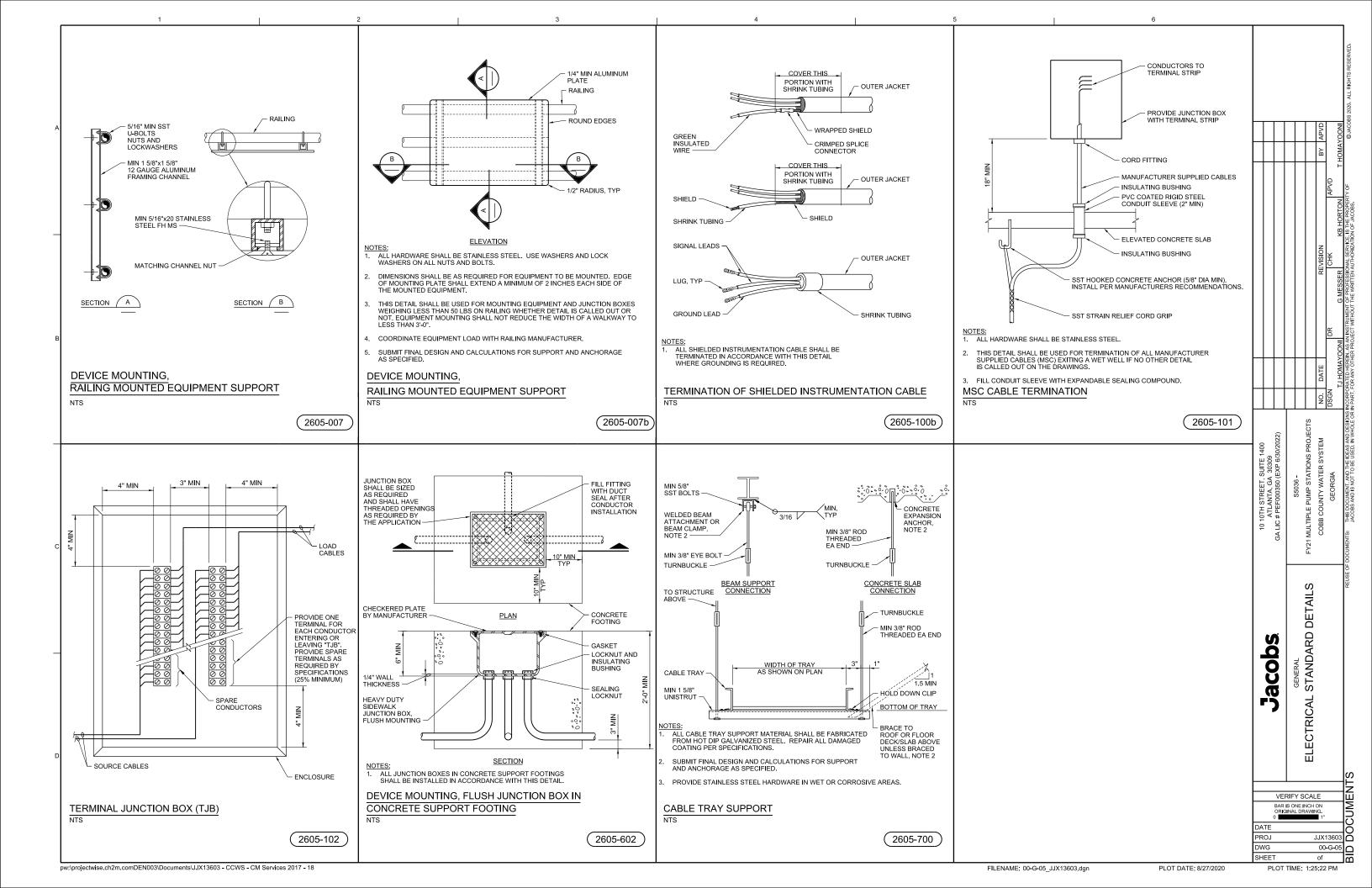
- 1. FOR CABLE TYPES, SEE SPECIFICATIONS.
- 2. CONDUIT SIZES ARE BASE ON THE AREA OF THW CONDUCTORS.
- SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- 4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".

Jacobs VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. PROJ 00-G-04 of DWG PLOT TIME: 1:25:05 PM

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PLOT DATE: 8/27/2020



DESIGN CRITERIA

- APPLICABLE CODE: 2018 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF GEORGIA IN 2020
- REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.
- 3 ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE
- DEAD LOADS: SELF WEIGHT
- ROOF LOADS:

SNOW EXPOSURE FACTOR, Ce	= 0.9
THERMAL FACTOR, Ct	= 1.0
SLOPE FACTOR, Cs	= 1.0
IMPORTANCE FACTOR, I	= 1.10
MINIMUM FLAT ROOF SNOW LOAD, Pf	= 4 PSF

ROOF LIVE LOAD = 20 PSF MISCELLANEOUS MECHANICAL AND ELECTRICAL LOADS = 10 PSF

DEFLECTION CRITERIA FOR CONTRACTOR DESIGNED ROOF FRAMING MEMBERS: TOTAL LOAD

L/360 L/360

WIND LOADS:

BASIC WIND SPEED (3-SECOND GUST)

= 113 MPH = 88 MPH EXPOSURE CATEGORY RISK CATEGORY IMPORTANCE FACTOR, IV

SEISMIC LOADS:

MAPPED SPE	CTRAL CCELERATIONS	ALLATOONA BEACH		PLANT ATKINSON	WOOD VALLEY	WEST HAMPTON #1	BUSHY MOUNTAIN	MARINA TRACE
	Ss	0.251g	0.224g	0.194g	0.250g	0.224g	0.223g	0.246g
	S ₁	0.092g	0.090g	0.087g	0.092g	0.090g	0.090g	0.092g
DESIGN SPEC	TRAL CCELERATIONS							
	Sps	0.268g	0.238g	0.207g	0.266g	0.239g	0.238g	0.262g
	SD1	0.148g	0.144g	0.139g	0.148g	0.144g	0.144g	0.148g

SITE CLASS **=** D SEISMIC DESIGN CATEGORY IMPORTANCE FACTOR, le = 1.25

FROST DEPTH:

GENERAL INFORMATION

= 12 IN

- FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
- DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
- VERIFY FINAL OPENING DIMENSIONS IN SLAB WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF
- 4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATÉ WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS.
- DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR
- VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE
- 7. INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS, AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE. NOTIFY ENGINEER IF CONDITIONS VARY FROM THAT SHOWN PRIOR

INSPECTION AND TESTING

- SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
- SPECIFIED CONCRETE AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION
- SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE
- SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH IBC SECTIONS 110, 1704, AND 1705 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS. REFER TO 014533 SPECIAL INSPECITON OBSERVATIONS AND TESTING.

FORMWORK, SHORING, AND BRACING

- STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION RECETION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.
- TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.

CONCRETE REINFORCING

- REINFORCING STEEL:
- ASTM A615, GRADE 60
- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- MINIMUM REINFORCING FOR CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS:

THICKNESS	REINF EACH WAY	LOCATION
6"	#4@12"	CENTERED
8"	#5@12"	CENTERED
10"	#4@12"	EACH FAC
10"	#5@12"	FACILEAC

12" #5@12" EACH FACE
PROVIDE LARGER SIZES AND MORE REINFORCING IN SECTIONS OF CONCRETE WHERE REQUIRED BY THE
DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.

CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE: WHEN CAST AGAINST EARTH: TYPICAL:

REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM

DAD OIZE		410	44.4	445	410	417	440	440	440	44.4
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LEN	IGTH									
SPACING = 3"	TOP BAR ²	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	`13'-4"
	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING = 4"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING ≥ 6"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDMENT LE	NGTH									
SPACING = 3"	TOP BAR ²	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING = 4"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING ≥ 6"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

- LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE
- REQUIRED FOR CONCRETE COVER LESS THAN 2".

 TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
- WHERE 3000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16 PERCENT. WHERE 3500 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 7 PERCENT

CAST IN PLACE CONCRETE

- 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS); 4000 PSI
- DESIGN STRENGTHS ARE SAME AS 28-DAY COMPRESSIVE STRENGTHS.
- CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT
- COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
- NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- 7. PATCH FORM TIE HOLES WITH POLYMER MODIFIED CONCRETE REPAIR MORTAR.

WELDING

- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWSD1.1, STRUCTURAL WELDING CODE STEEL D1.2, STRUCTURAL WELDING CODE ALUMINUM D1.6, STRUCTURAL WELDING CODE STAINLESS STEEL
- REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.
- USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.

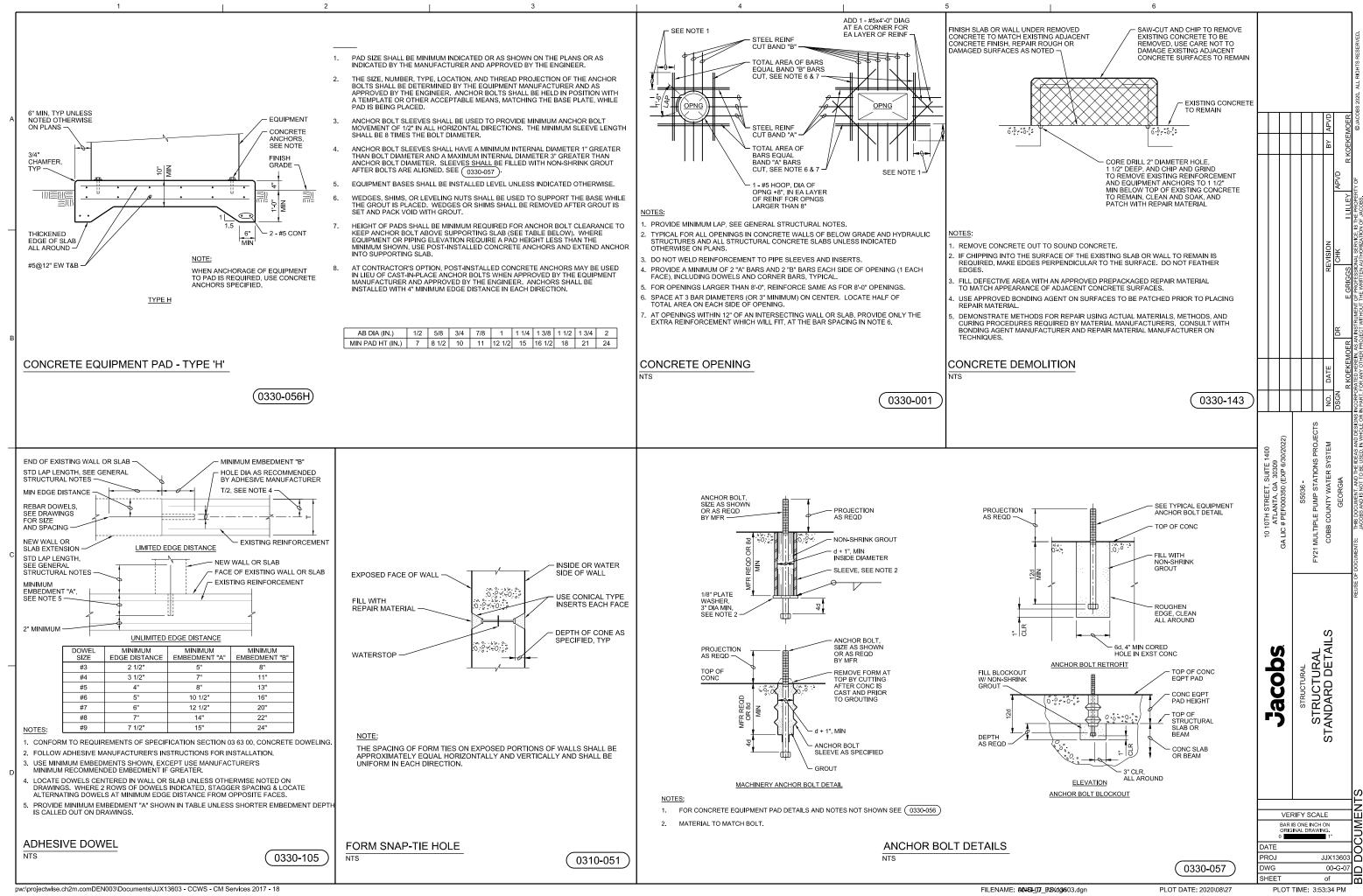
DEFERRED SUBMITTALS

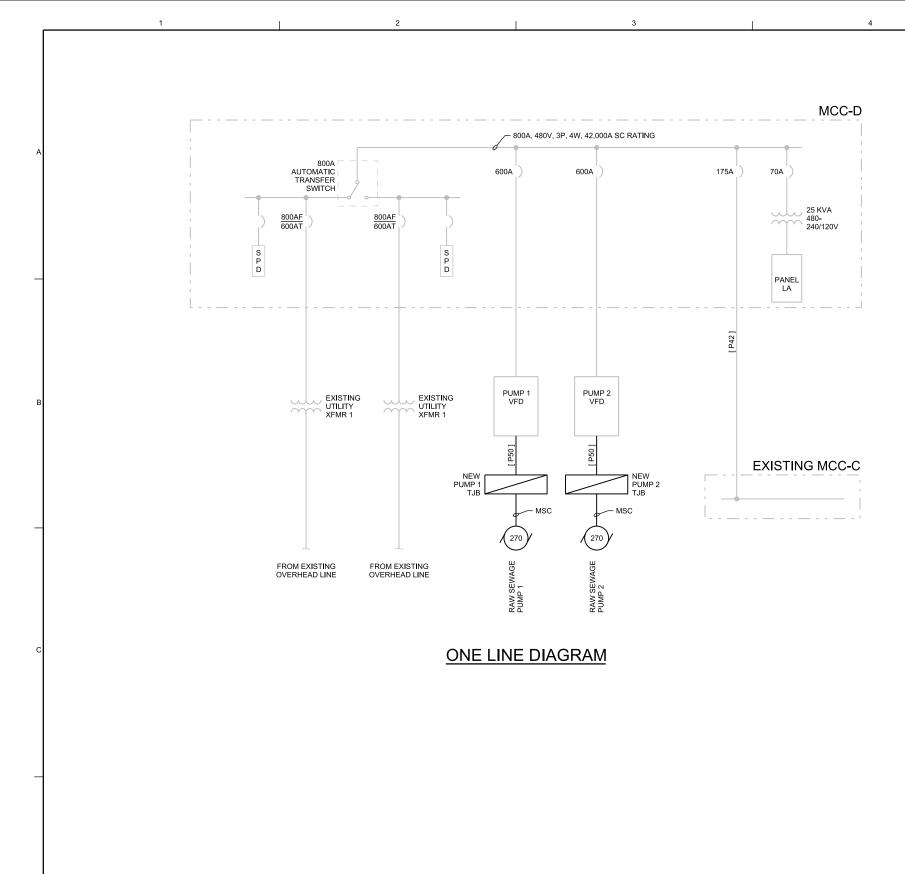
- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY
- WHERE DEFERRED SUBMITTALS INCLUDE ADDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR CERTIFICATION OF COMPONENTS THAT REQUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO MEET CODE REQUIREMENTS, THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO THE APPROPRIATE TABLES IN THE PROJECT'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT ALREADY IDENTIFIED.
 - THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 OF IBC THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, THE CONTRACTOR SHALL SUBMITT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE PERMITTING AGENCY AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.

SPECIFICATION SECTION	PERMITTING AGENCY
18815	ANCHORAGE AND BRACING
13121	FABRICATED STRUCTURES
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

Jacobs NOT STRUCTURAL ALE HON WING.

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PANEL:	LA		LOCA	TION:	INSIE	DE MC	C-D		
SERVICE	VOLTAGE	: 240/120V	PHAS	E: 1			WIRE: 3		
TOTAL LC	AD KVA:	*	BUS S	SIZE:	125A		MAIN SIZE: 125A	TYPE: BK	R
REMARKS	3:		NEUT	RAL: I	ULL		MOUNTING: INSIDE MCC-D		
LOAD	INVA		BKR	CKT	CKT	BKR		LOAD	IN VA
Α	В	CIRCUIT DESCRIPTION	A/P	NO.	NO.	A/P	CIRCUIT DESCRIPTION	Α	В
*		EXST LOAD	20/1	1	2	20/1	EXST LOAD	*	
	*	EXST LOAD	20/1	3	4	20/1	EXST LOAD		*
*		EXST LOAD	20/1	5	6	20/1	EXST LOAD	*	
	*	EXST LOAD	20/1	7	8	20/1	EXST LOAD		*
*		EXST LOAD	20/1	9	10	20/1	EXST LOAD	*	
	*	EXST LOAD	60/2	11	12	30/2	EXST LOAD		*
*		EXST LOAD		13	14			*	
	1.0	NEW PUMP MAS 801 PANEL	20/1	15	16	20/1	SPARE		0.0
0.0		SPARE	20/2	17	18	20/2	SPARE	0.0	
	0.0			19	20				0.0
*	*	TOTAL						*	*

* = EXISTING LOAD

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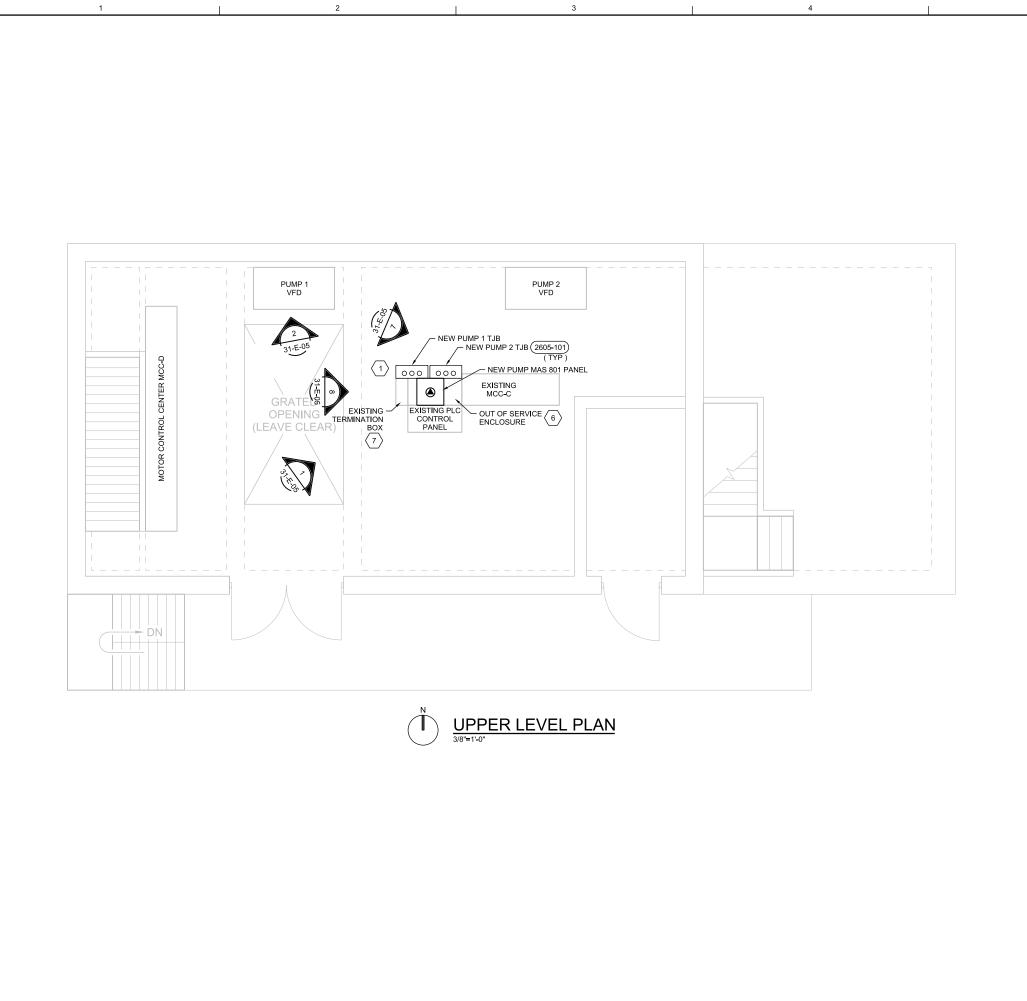
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PLOT DATE: 8/27/2020

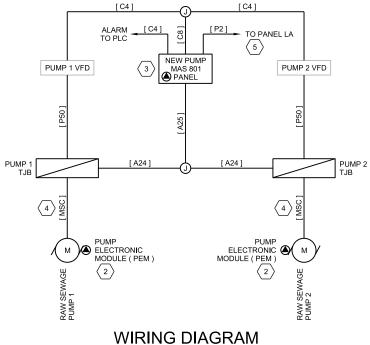
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SHEET KEYNOTES

- NEW PUMP TJBS TO BE INSTALLED BELOW THE NEW PUMP MAS 801 PANEL. CONTRACTOR REQUIRED TO DESIGN, PROVIDE, AND INSTALL SUPPORTS AS REQUIRED FOR NEW PUMP TJBS AND NEW PUMP MAS 801 PANEL.
- PUMP ELECTRONIC MODULE (PEM) IS INTEGRATED IN PUMP WHICH MONITOR TEMPERATURE AND
- LEAKAGE. PUMP MAS 801 PANEL TO BE FURNISHED BY PUMP MANUFACTURER CONTAINS THE DISPLAY UNIT, BASE UNIT (BU) FOR EACH PUMP AND CENTRAL
 UNIT (CU) WHICH CONTROLS BOTH PUMP BASE
 UNIT MODULES. REFER TO MAS 801 SYSTEM USER MANUAL FOR ADDITIONAL INFORMATION.
- MANUFACTURER SUPPLIED CABLE (MSC) CONTAINS BOTH POWER AND COMMUNICATION CABLES (SUBCAB CABLE). TERMINATE THE CABLE IN TERMINAL JUNCTION BOX (TJB) AND SPLIT THE IN TERMINAL JUNCTION BOX (135) AND SPLIT THE POWER AND COMMUNICATION CABLES. SEPARATE THE COMMUNICATION CABLE FROM POWER CABLE WITH >30 CM (0.984 FT). EACH PUMP WILL BE SUPPLIED WITH TWO PARALLEL CABLES.
- PROVIDE 120V FOR NEW PUMP MAS 801 PANEL FROM EXISTING LIGHTING PANEL LA.
- DEMOLISH THE OUT OF SERVICE ENCLOSURE. CONTRACTOR TO FIELD VERIFY AND RECORD ALL WIRING GOING THROUGH THIS ENCLOSURE TO EXISTING PLC AND RECONNECT.
- EXISTING TERMINATION BOX TO REMAIN. PROVIDE SUPPORT. CONTRACTOR REQUIRED TO DESIGN, PROVIDE, AND INSTALL SUPPORTS AS REQUIRED FOR THE EXISTING TERMINATION BOX.
- CONNECT THE AVAILABLE ALARM CONTACTS FROM NEW PUMP MAS 801 PANEL TO THE EXISTING PLC. REFER TO MAS 801 USER MANUAL FOR ADDITIONAL INFORMATION

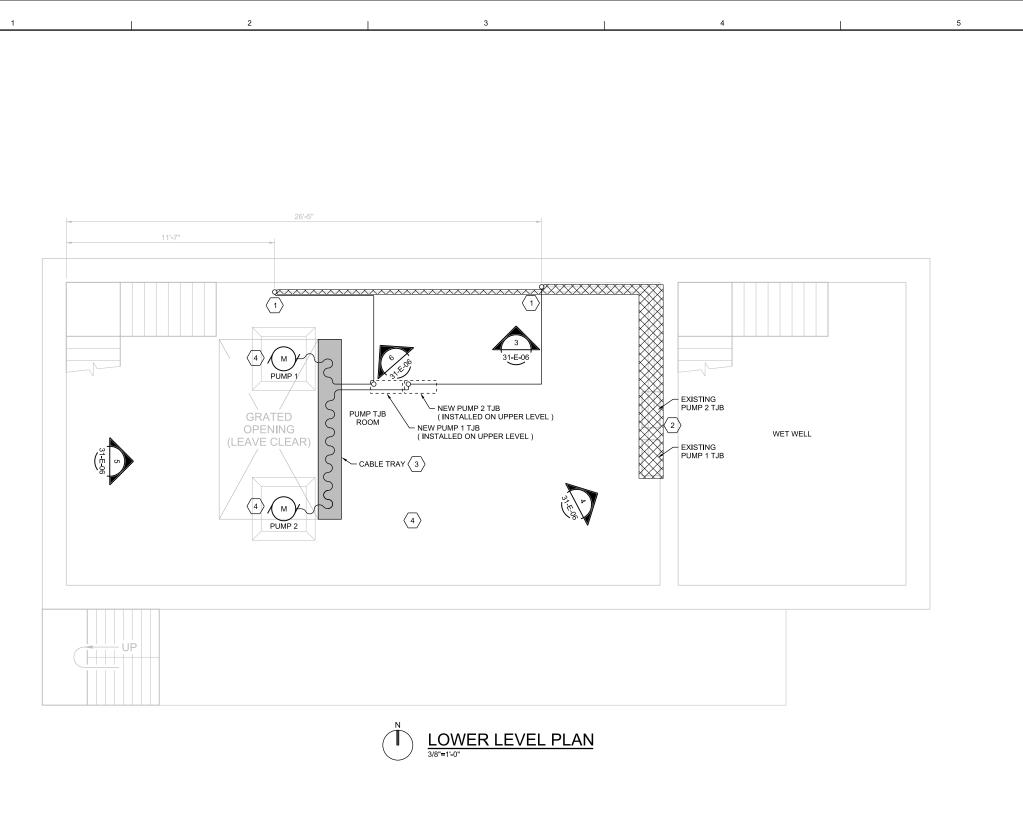
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SIX FLAGS PUMP STATION UPPER LEVEL POWER PLAN

Jacobs

PLOT DATE: 8/27/2020



SHEET KEYNOTES

- CONNECT NEW CONDUITS FROM NEW TJB'S ON UPPER LEVEL TO VFD'S BY INTERCEPTING THE EXISTING CONDUITS GOING TO VFD'S VIA EXISTING PENETRATIONS. INSTALL NEW CONDUCTORS FROM NEW TJB'S TO VFD'S. REFER TO WIRING DIAGRAM ON 314 62
- DIAGRAM ON 31-E-02. REMOVE EXISTING TJB'S, MANUFACTURER SUPPLIED CABLES FROM PUMP ROOM TO EXISTING TJB'S, AND CONDUITS / CONDUCTORS FROM TJB'S TO VFD'S.
- ROUTE THE MANUFACTURER SUPPLIED CABLES VIA A NEW CABLE TRAY. 18"x6" CABLE TRAY SUSPENDED BY S.S. RODS. SECURE CABLES WITH TYWRAPS TO CABLE TRAY, LEAVING SUFFICIENT SLACK TO PREVENT STRECHING CABLES AT PUMPS. TYPICAL TWO CABLES FOR EACH PUMP. SEE DRAWING 31-PR-01 FOR MORE DETAILS.
- PROVIDE CABLE SUPPORT TO MOTOR POWER CABLE AT MOTOR. PROVIDE ADEQUATE SUPPORT SO THAT CABLE IS NOT RESTING ON MOTOR FRAME.

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ELECTRICAL
SIX FLAGS PUMP STATION
LOWER LEVEL POWER PLAN

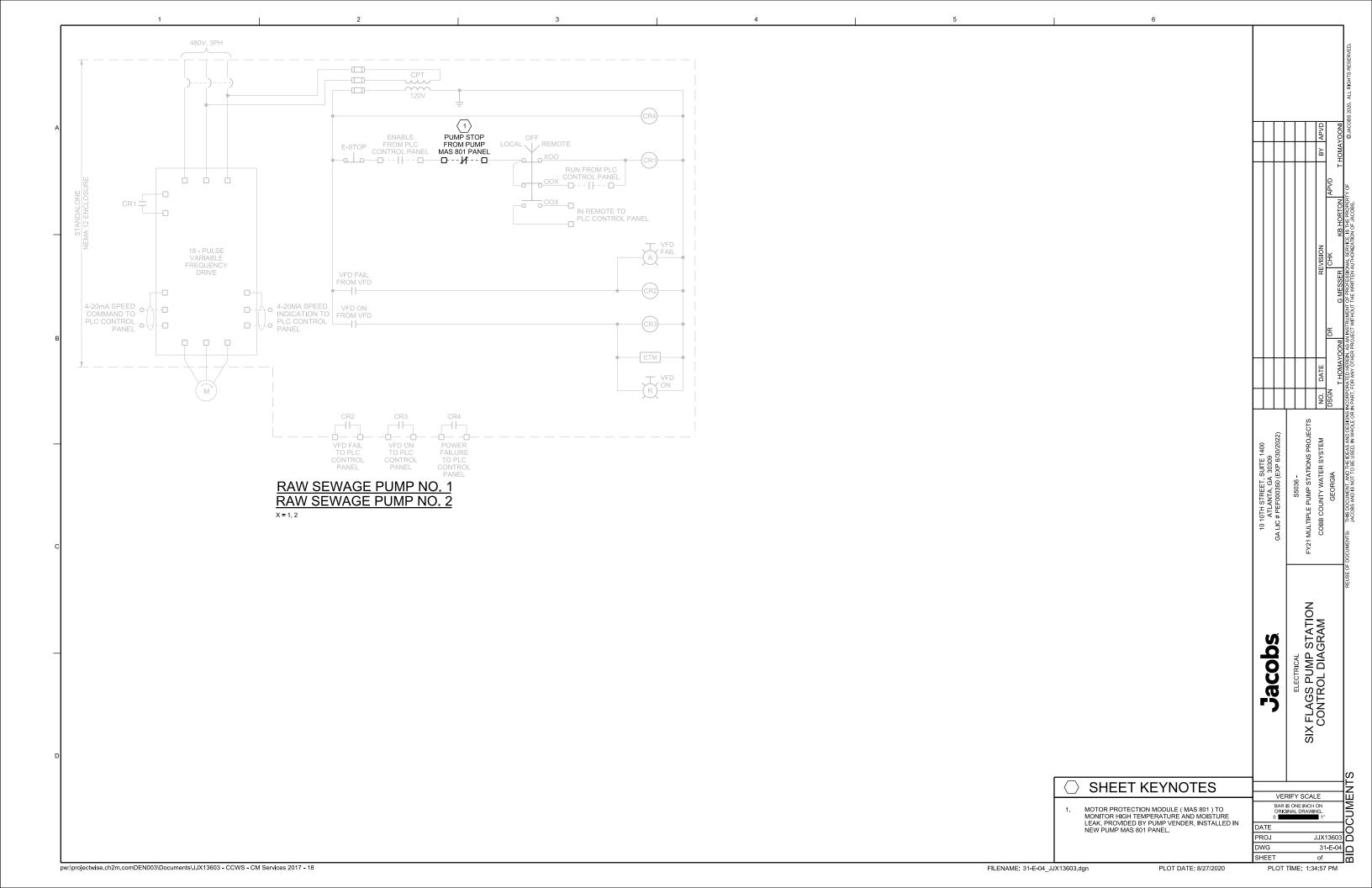
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PLOT DATE: 8/27/2020

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Jacobs



ELECTRICAL
SIX FLAGS PUMP STATION
UPPER LEVEL PHOTO DETAILS Jacobs

> VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

WG

ALE HON WING.

JJX13603

DEMOLISH THE OUT OF SERVICE ENCLOSURE.
CONTRACTOR TO FIELD VERIFY AND RECORD ALL
WIRING GOING THROUGH THIS ENCLOSURE TO
EXISTING PLC AND RECONNECT. REMOVE ANY
EMPTY OR UNUSED CONDUIT AND CONDUCTORS.
EXTEND THE CONDUITS TO EXISTING PLC AS
NEEDED,

EXISTING TERMINATION BOX TO REMAIN. PROVIDE SUPPORT. PROTECT THE EXISTING CABLES.

SHEET KEYNOTES

INSTALL NEW PUMP TJBS AND NEW PUMP MAS801 PANEL. PROVIDE ADEQUATE SUPPORT FOR NEW TJBS AND NEW PUMP MAS 801 PANEL.

- EXISTING PLC

PHOTO DETAIL



- EXISTING TERMINATION BOX

- EXISTING PUMP 1 VFD ISOLATION TRANSFORMER



PHOTO DETAIL

PROPOSED LOCATION FOR THE NEW PUMP MAS 801 PANEL

EXISTING TERMINATION

PROPOSED LOCATION -FOR NEW PUMP MAS 801 PANEL

8 PHOTO DETAIL
NTS

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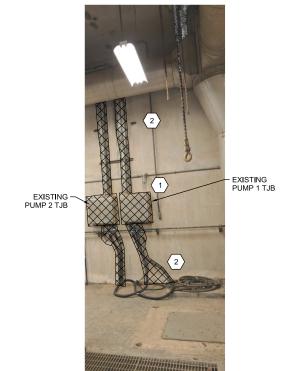
ELECTRICAL
SIX FLAGS PUMP STATION
LOWER LEVEL PHOTO DETAILS Jacobs

CONTRACTOR SHALL DEMOLISH THE EXISTING PUMP TJBS. 2. CONTRACTOR TO DEMOLISH THE EXISTING CONDUITS AND CONDUCTORS TO/FROM EXISTING

SHEET KEYNOTES

	PUMP TJBS.
3.	CONNECT NEW CONDUITS FROM NEW TJBS (ELECTRICAL ROOM TO VFD'S BY INTERCEPTI EXISTING CONDUITS GOING TO VFDS VIA PENETRATIONS. INSTALL NEW CONDUITS FR NEW TJBS TO VFDS.

- EXISTING PUMP 1 TJB





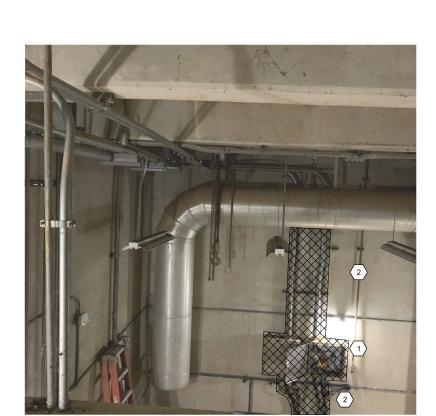
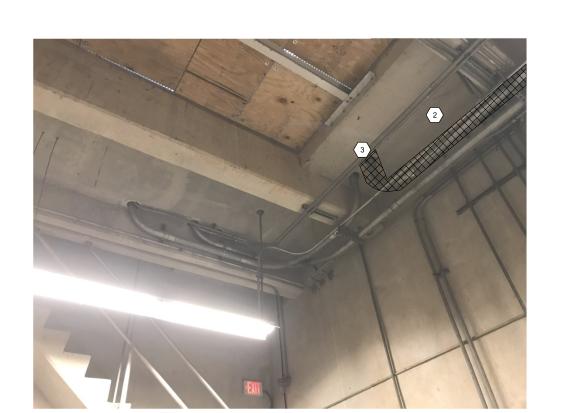


PHOTO DETAIL

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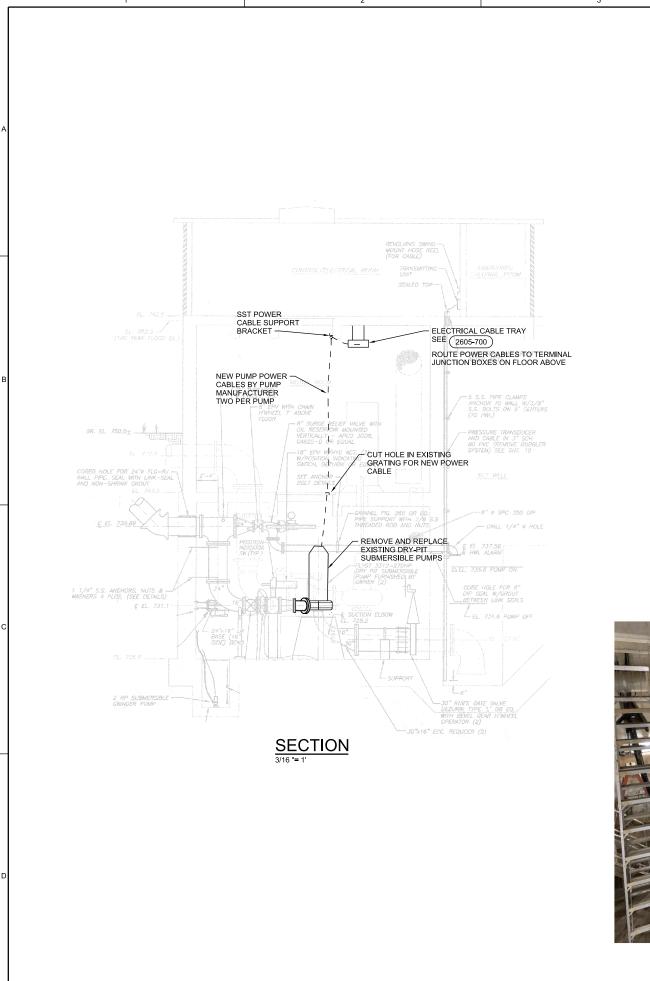
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PLOT DATE: 8/27/2020



TO STRUCTURE

ABOVE

CABLE TRAY

WIDTH OF TRAY

AS SHOWN ON PLAN

MIN 15/8"
UNISTRUT

NOTES:

1. ALL CABLE TRAY SUPPORT MATERIAL SHALL BE FABRICATED FROM HOT DIP GALVANIZED STEEL. REPAIR ALL DAMAGED
COATING PER SPECIFICATIONS.

- SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.
- 3. PROVIDE STAINLESS STEEL HARDWARE IN WET OR CORROSIVE AREAS.

CABLE TRAY SUPPORT

NTS

2605-700

TO WALL, NOTE 2

REMOVE EXISTING PUMP AND POWER CABLES AND INSTALL NEW FPUMP AND POWER CABLES

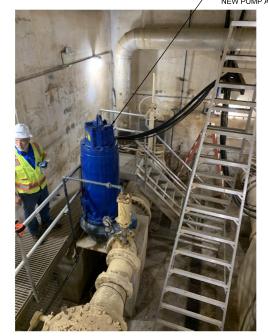


EXISTING PUMP 1

GENERAL NOTES

- 1 CONFIRM CONNECTION AND ANCHORAGE REQUIREMENTS BEFORE ORDERING NEW PIPING.
- 2 PUMP REMOVAL AND REPLACEMENT SHALL BE PERFORMED ONE AT A TIME.
- ISOLATE PUMP ELECTRICALLY USING CCWS
- TAG-0UT/LOCK OUT PROCEDURES.
- ISOLATE PUMP USING EXISTING VALVES.
- REMOVE PUMP AND POWER CABLE.
- 6 INSTALL NEW PUMP. CONNECT TO EXISTING SUCTION AND DISCHARGE PIPING. PUMP SHALL BE A XYLEM CT 3312, 63-630. 480mm IMPELLER, 1200 RPM, 460 VOLT/3PHASE, 280 HP. SEE SPECIFICATION 11305 FOR ADDITIONAL PUMP DETAILS.
- 7 ANCHOR PUMP TO EXISTING PUMP SUPPORT USING EXISTING ANCHOR BOLTS. GROUT PUMP BASEPLATE.
- 8 INSTALL NEW POWER CABLE. SEE ELECTRICAL DRAWINGS FORE DETAILS.
- INSTALL AND CONNECT PUMP PROTECTIVE MAS UNIT CONSISTING OF A PUMP ELECTRONIC MODULE(PEM), BASE UNIT AND CONTROL UNIT. THE BASE UNIT AND COMMON CONTROL UNIT SHALL BE MOUNTED IN A NEW ENCLOSURE PROVIDED BY THE PUMP MFR. CONNECT MAS SYSTEM AS SHOWN ON THE ELECTRICAL DRAWINGS AND MANUFACTURER DETAILS.
- 10 PROVIDE MANUFACTURER SERVICES TO INSPECT INSTALLATION AND ASSIST IN START-UP. MANUFACTURER SHALL CERTIFY PUMP INSTALLATION PRIOR TO START-UP.
- 1 RESTORE POWER AND START-UP PUMP
- 12 PERFORM PUMP START-UP AND FIELD TESTING. PERFORM 48 HR FUNCTIONAL TESTING. CONFIRM PUMP OPERATION USING BOTH EXISTING 20-INCH AND 30-INCH FORCE MAINS. RECORD PUMP PERFORMANCE DATA AND PROVIDE START-UP REPORT.
- 13 PLACE PUMP INTO SERVICE.
- 14 REPEAT FOR ABOVE PROCEDURE FOR NEXT PUMP.
- 15. ROUTE THE MANUFACTURER SUPPLIED CABLES VIA A NEW CABLE TRAY. 18" x.6" CABLE TRAY SUSPENDED BY S.S. RODS. SECURE CABLES WITH TYWRAPS TO CABLE TRAY. LEAVING SUFFICIENT SLACK TO PREVENT STRETCHING CABLES AT PUMPS. TYPICAL TWO CABLES FOR EACH PUMP. SEE ELECTRICAL DRAWINGS FOR CONNECTION DETAILS.
- 16. PROVIDE CABLE SUPPORT TO MOTOR POWER CABLE AT MOTOR. PROVIDE ADEQUATE SUPPORT SO THAT CABLE IS NOT RESTING ON MOTOR FRAME.

- REMOVE EXISTING PUMP AND POWER CABLES AND INSTALL NEW PUMP AND POWER CABLES



EXISTING PUMP 2

Jacobs	10 10TH STREET, SUITE 1400 ATLANTA, GA 30309 GA LIC # PEF000350 (EXP 6/30/2022)
PROCESS MECHANICAL SIX FLAGS PUMP STATION SECTION	S5036 - FY21 MULTIPLE PUMP STATIONS PROJEC COBB COUNTY WATER SYSTEM GEORGIA
REUSE OF	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DIS

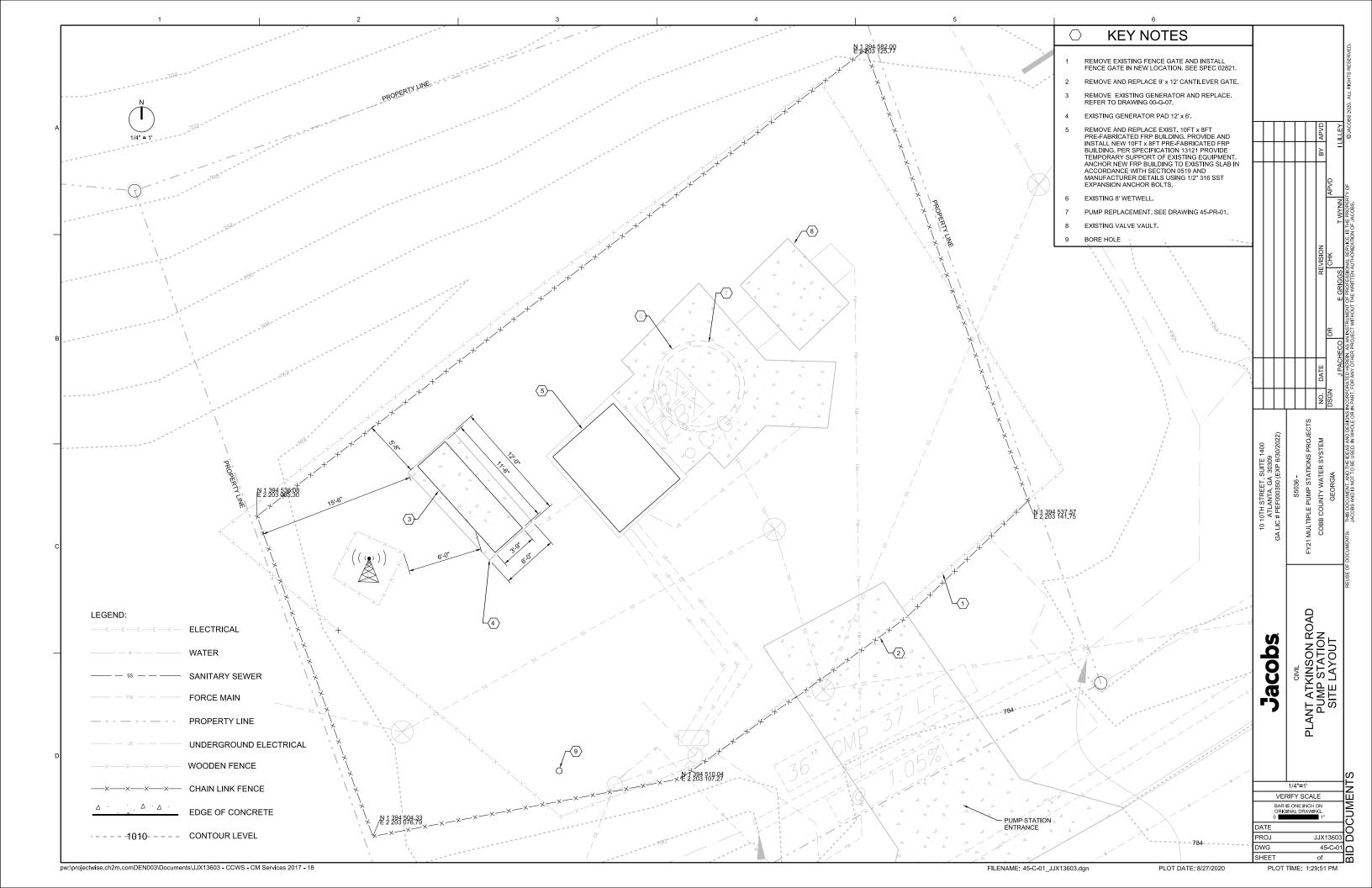
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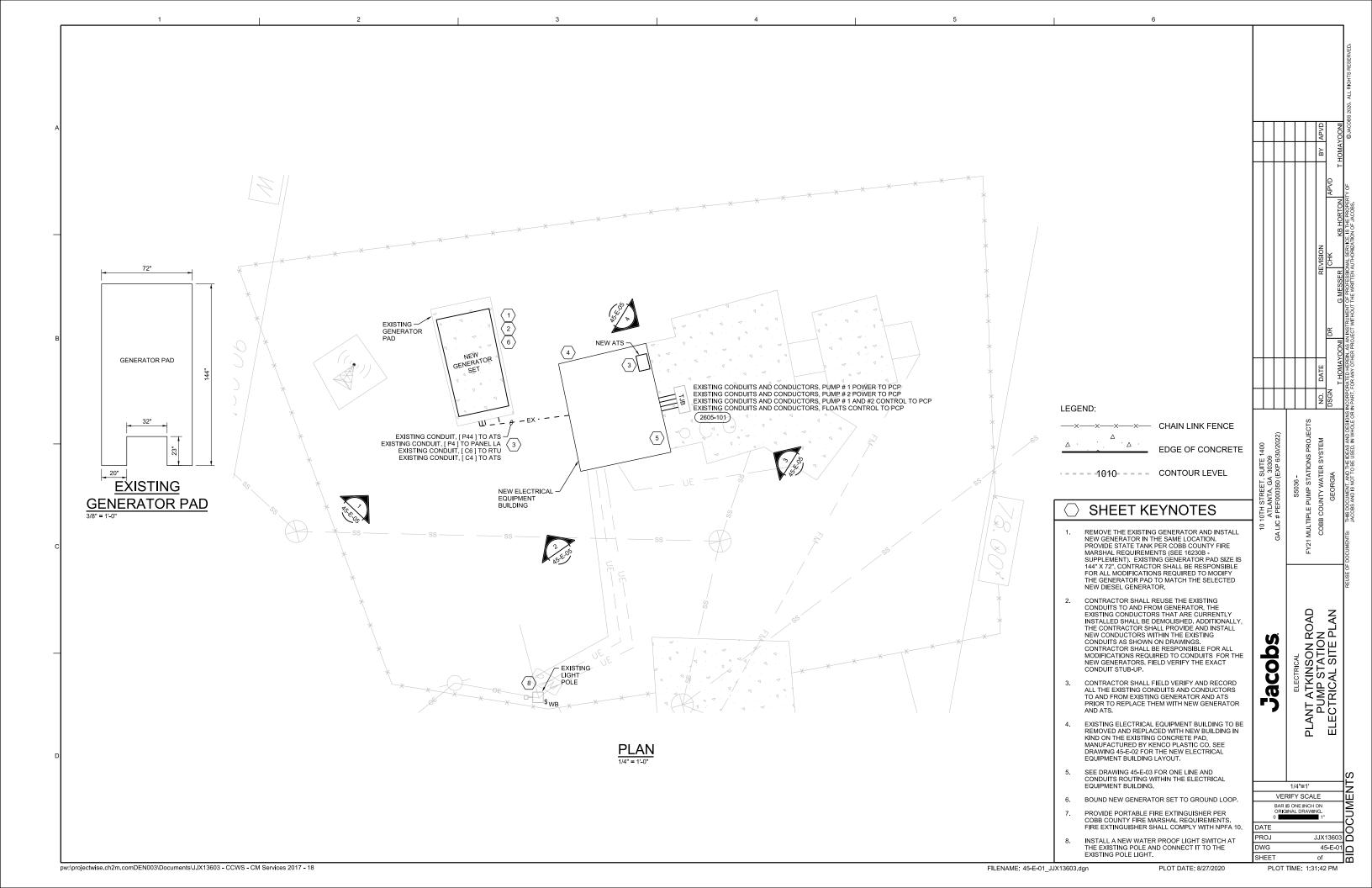
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VERIFY SCALE BAR IS ONE INCH ON

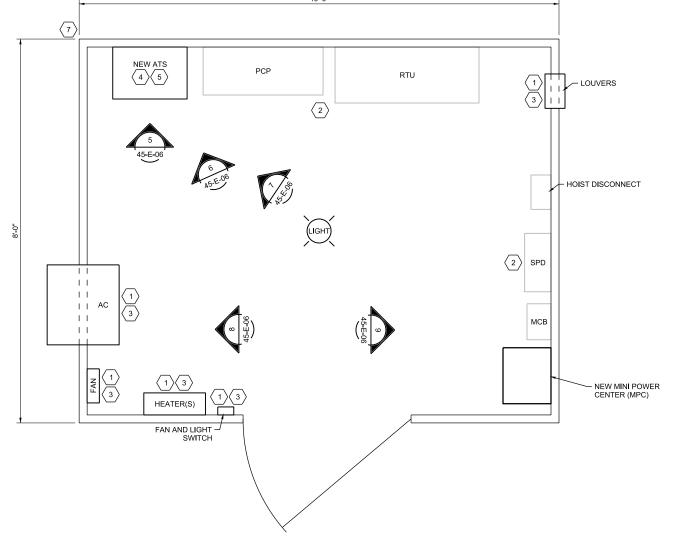
ALE HON WING.

JJX13603





PANEL: LP SERVICE VOLTAGE: 120/240V LOCATION: PLANT ATKINSON P.S PHASE: 1 WIRE: 3 BUS SIZE: 50A MAIN SIZE: 50A TYPE: BREAKER TOTAL LOAD KVA: LOAD IN KVA RECEPTACLES
INT. LIGHT
SITE LIGHT
RTU
GEN. BATT. CHARGER HEATER 1 HEATER 2 GEN. HEATER 0.5 1.5 0.5 SPARE SPARE 15 16 20/1 17 18 19 20 20/2 SPARE 20/2 SPARE 1.4 0.7 3.0 2.0



ELECTRICAL EQUIPMENT BUILDING LAYOUT

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SHEET KEYNOTES

- EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND ON THE EXISTING CONCRETE PAD. FAN. HEATER, INTERIOR LIGHT, AC UNIT, RECEPTACLES, AND ASSOCIATED
 SWITCHES WILL BE FURNISHED BY BUILDING
 VENDOR (KENCO PLASTIC CO.) CONTRACTOR SHALL PROVIDE NEW CONDUITS AND
 - EXISTING EQUIPMENT AND SUPPORTS TO REMAIN. DISCONNECT THE EXISTING UNISTRUT FROM THE WALLS. PROVIDE TEMPORARY SUPPORT TO ENSURE EQUIPMENT AND ASSOCIATED CONDUITS ARE STABLE AND PROTECTED. RECONNECT TO NEW BUILDING STRUCTURE.
 - COORDINATE WITH BUILDING VENDOR (KENCO PLASTIC CO.) TO ENSURE THE LOCATION FOR NEW AC, HEATER, FAN, AND LOUVERS DO NOT
- REMOVE THE EXISTING ATS AND INSTALL NEW ATS IN THE SAME LOCATION. CONTRACTOR SHALL FIELD VERIFY AND RECORD ALL THE EXISTING CONDUITS AND CONDUCTORS TO AND FROM EXISTING ATS PRIOR TO REPLACE IT WITH NEW ATS. BOUND NEW ATS TO GROUND LOOP.
- SEE DRAWING 45-E-03 FOR ONE LINE DIAGRAM.
- BOND NEW BUILDING, ALL RACK EQUIPMENT, AND
- PROVIDE PORTABLE FIRE EXTINGUISHER INSIDE
- CONTRACTOR SHALL MINIMIZE THE TIME THAT PUMP STATION WILL BE OUT OF SERVICE DUE EQUIPMENT REPLACEMENT (<2 HOURS). COORDINATE THE OUT OF SERVICE DATE. TIME

CONTRACTOR SHALL REUSE THE EXISTING CONDUITS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS.

SUPPORT TO GROUND LOOP.

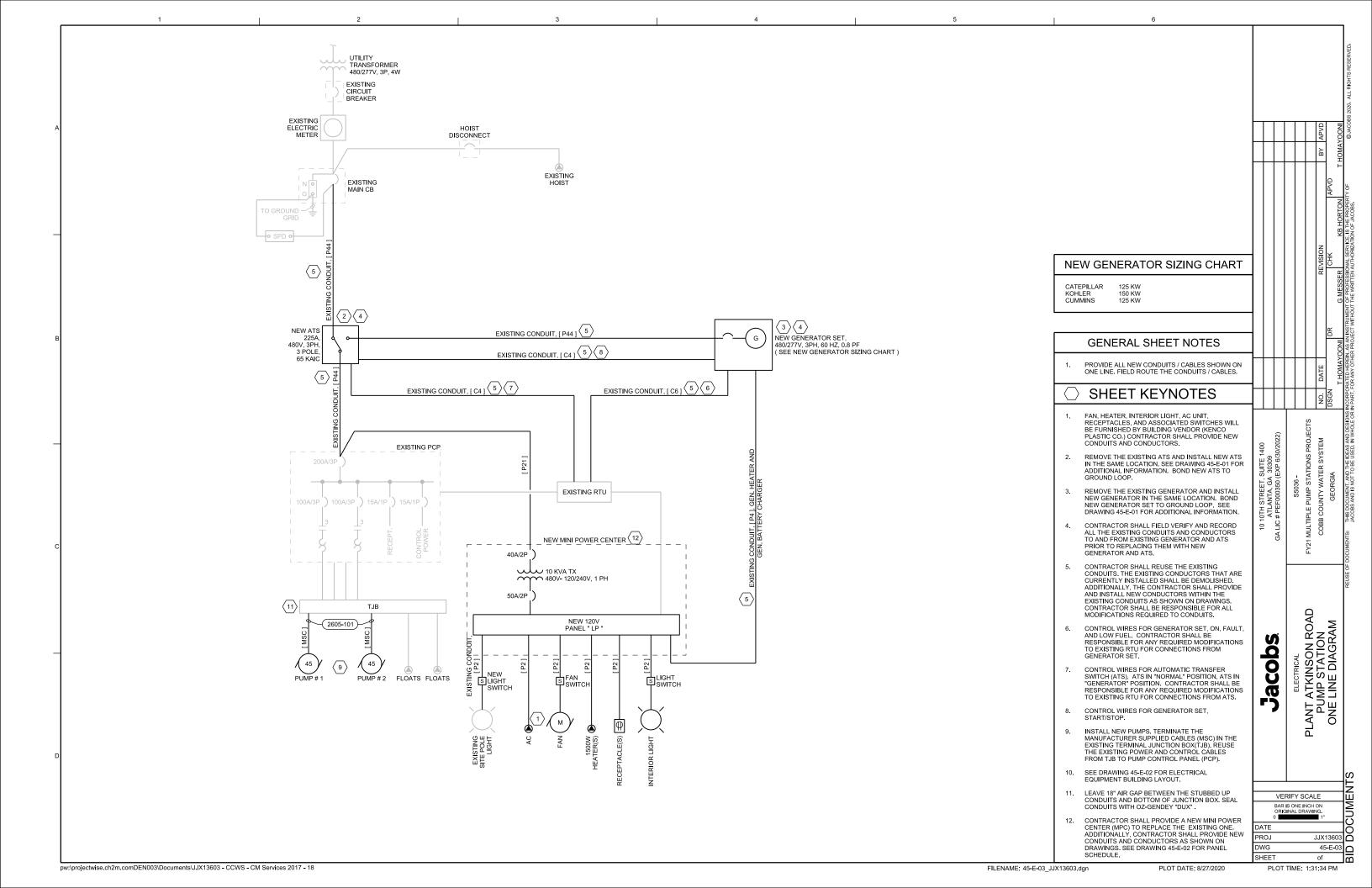
THE BUILDING PER COBB COUNTY FIRE MARSHALL REQUIREMENTS.

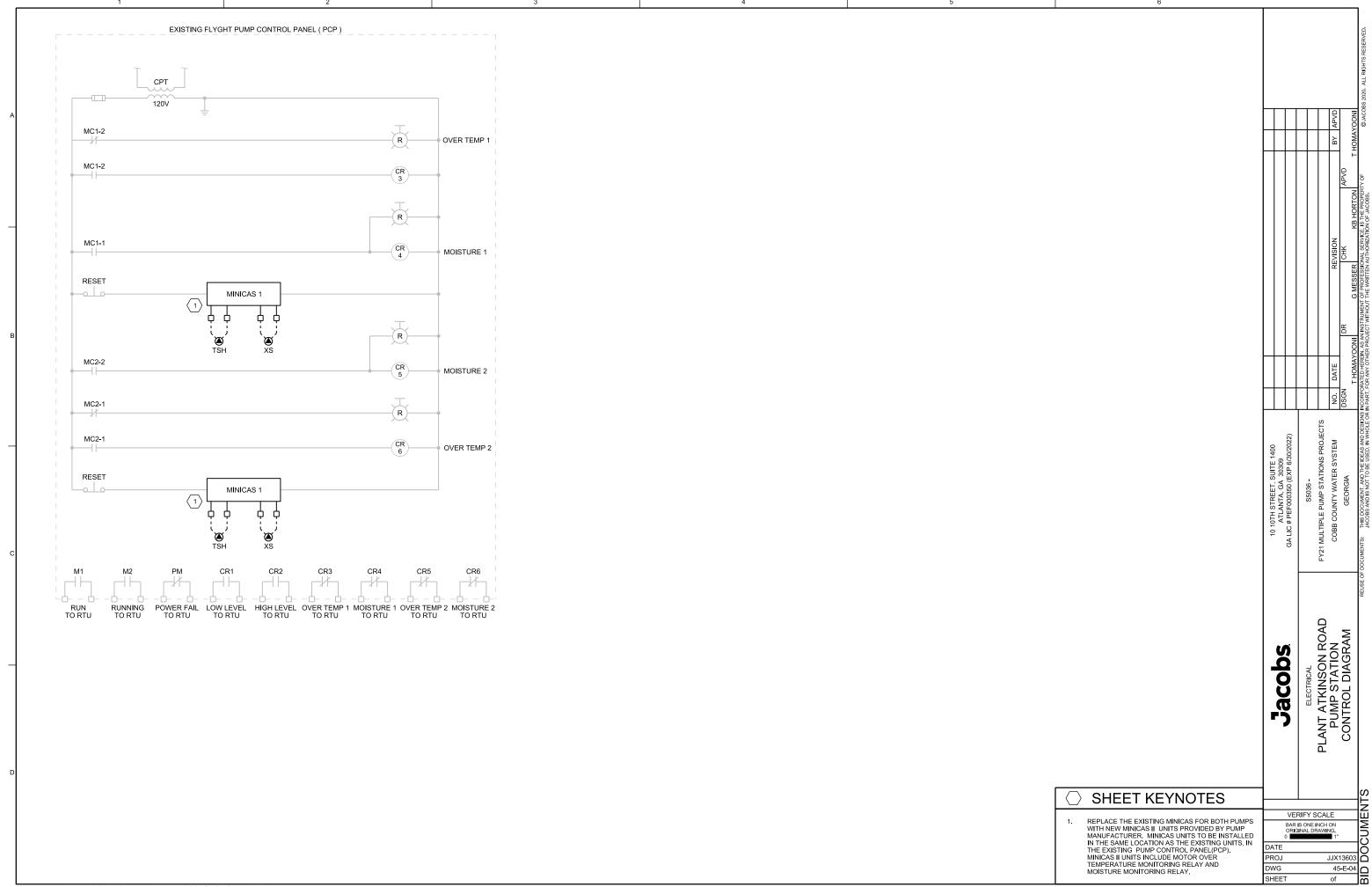
PLANT ATKINSON ROAD PUMP STATION ELECTRICAL EQUIPMENT BUILDING LAYOUT AND PANEL SCHEDULE ALE SHON MING.

JJX13603 VERIFY SCALE BAR IS ONE INCH ON PROJ 45-E-02 of WG SHEET

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FILENAME: 45-E-04_JJX13603.dgn

PLOT DATE: 8/27/2020

PLOT TIME: 1:31:31 PM

PHOTO DETAIL

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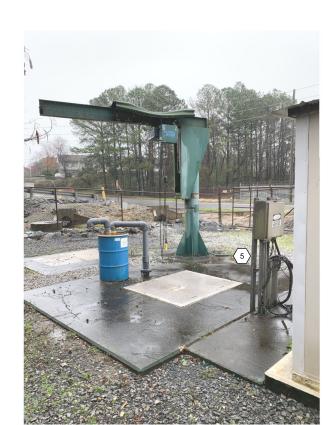


PHOTO DETAIL





- EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. BOUND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 45-E-03 FOR ONE LINE AND GENERATOR SIZING CHART.
- EXISTING GENERATOR PAD SIZE IS 144" X 72". CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO MODIFY THE GENERATOR PAD TO MATCH THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS, FIELD VERIFY THE EXACT CONDUIT STUB-UP. CONDUIT STUB-UP.
- EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND. SEE DRAWING 45-E-02 FOR ELECTRICAL EQUIPMENT BUILDING LAYOUT.
- TERMINATE THE MANUFACTURER SUPPLIED CABLES (MSC) FOR THE NEW PUMPS IN THE EXISTING TERMINAL JUNCTION BOX(TJB). REUSE THE EXISTING POWER AND CONTROL CABLES FROM TJB TO PUMP CONTROL PANEL (PCP).

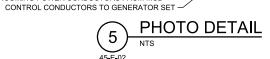
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VERIFY SCALE	
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ROJ JJX13603	∄
VG 45-E-05	_اق
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PLANT ATKINSON ROAD PUMP STATION PHOTO DETAILS

Jacobs

pw:\projectwise.ch2m.comDEN003\Documents\JJX13603 - CCWS - CM Services 2017 - 18 FILENAME: 45-E-05_JJX13603.dgn PLOT DATE: 8/27/2020 POWER CONDUCTORS FROM ATS TO PCP
POWER CONDUCTORS FROM ATS TO GENERATOR SET -INCOMING POWER CONDUCTORS FROM MCB —









6 PHOTO DETAIL
NTS









SHEET KEYNOTES

- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE REMOVED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 45-E-03 FOR ONE LINE. BOUND NEW ATS TO GROUND LOOP.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND. FAN, HEATER, INTERIOR LIGHT, AC UNIT, RECEPTACLES, AND ASSOCIATED SWITCHES WILL BE FURNISHED BY BUILDING VENDOR (KENCO PLASTIC CO.) CONTRACTOR SHALL PROVIDE NEW CONDUITS AND CONDUCTORS.
- EXISTING EQUIPMENT AND SUPPORTS TO REMAIN. DISCONNECT THE EXISTING UNISTRUT FROM THE WALLS. PROVIDE TEMPORARY SUPPORT TO ENSURE EQUIPMENT AND ASSOCIATED CONDUITS ARE STABLE AND PROTECTED. RECONNECT TO NEW BUILDING STRUCTURE.
- REMOVE THE EXISTING MINI POWER CENTER (MPC) AND REPLACE IT WITH A NEW MPC. CONNECT THE LOADS AS SHOWN ON DRAWINGS.

Jacobs	10 10TH STREET, SUITE 1400 ATLANTA, GA 30309 GA LIC # PEF000350 (EXP 6/30/2022)
ELECTRICAL NT ATKINSON ROAD PUMP STATION PHOTO DETAILS	S5036 - FY21 MULTIPLE PUMP STATIONS PROJECT COBB COUNTY WATER SYSTEM GEORGIA
REUSE	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DE

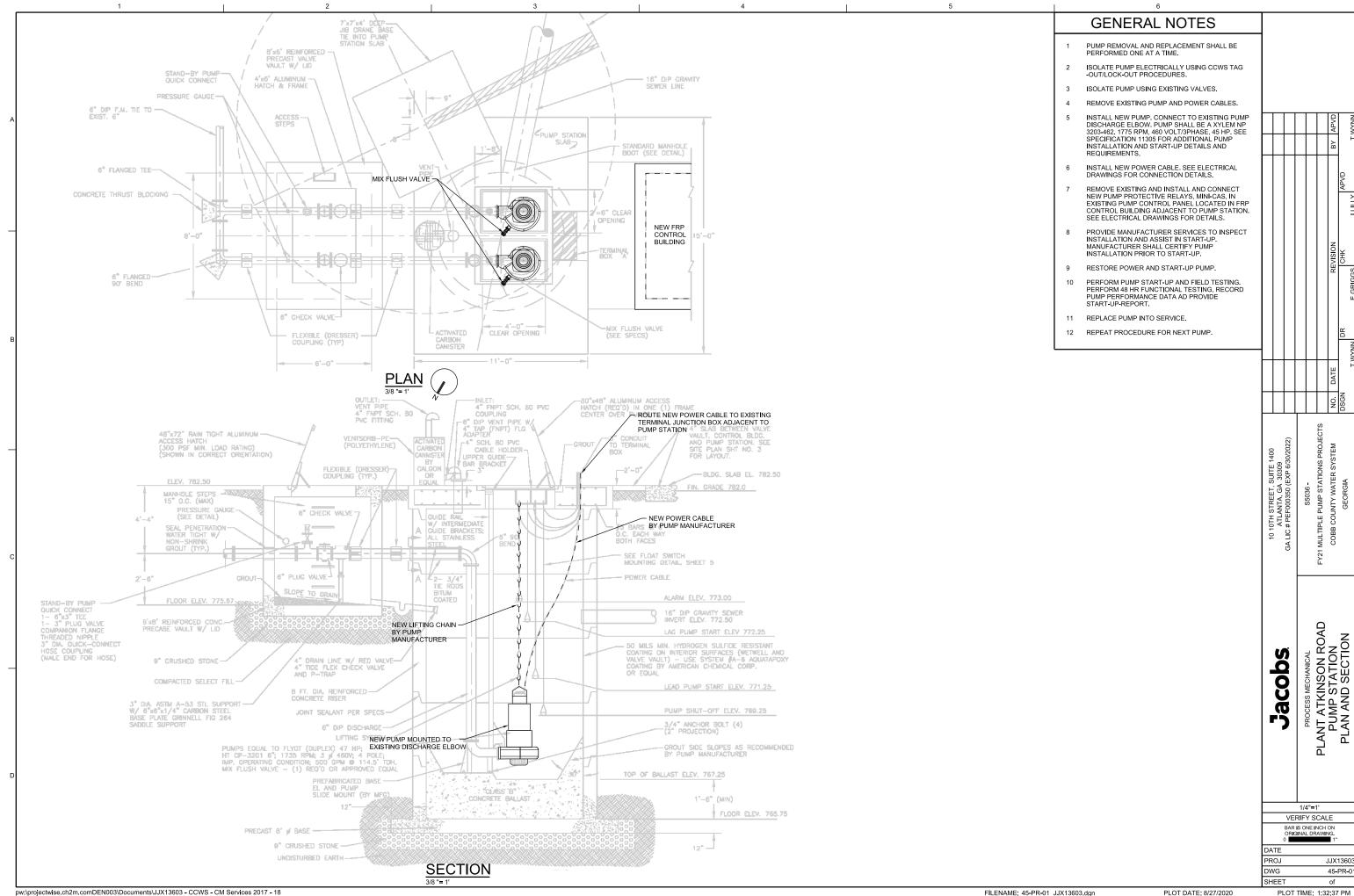
PLANT ATKINSON RC PUMP STATION PHOTO DETAILS

ALE HON WING.

JJX13603 VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 45-E-06 of

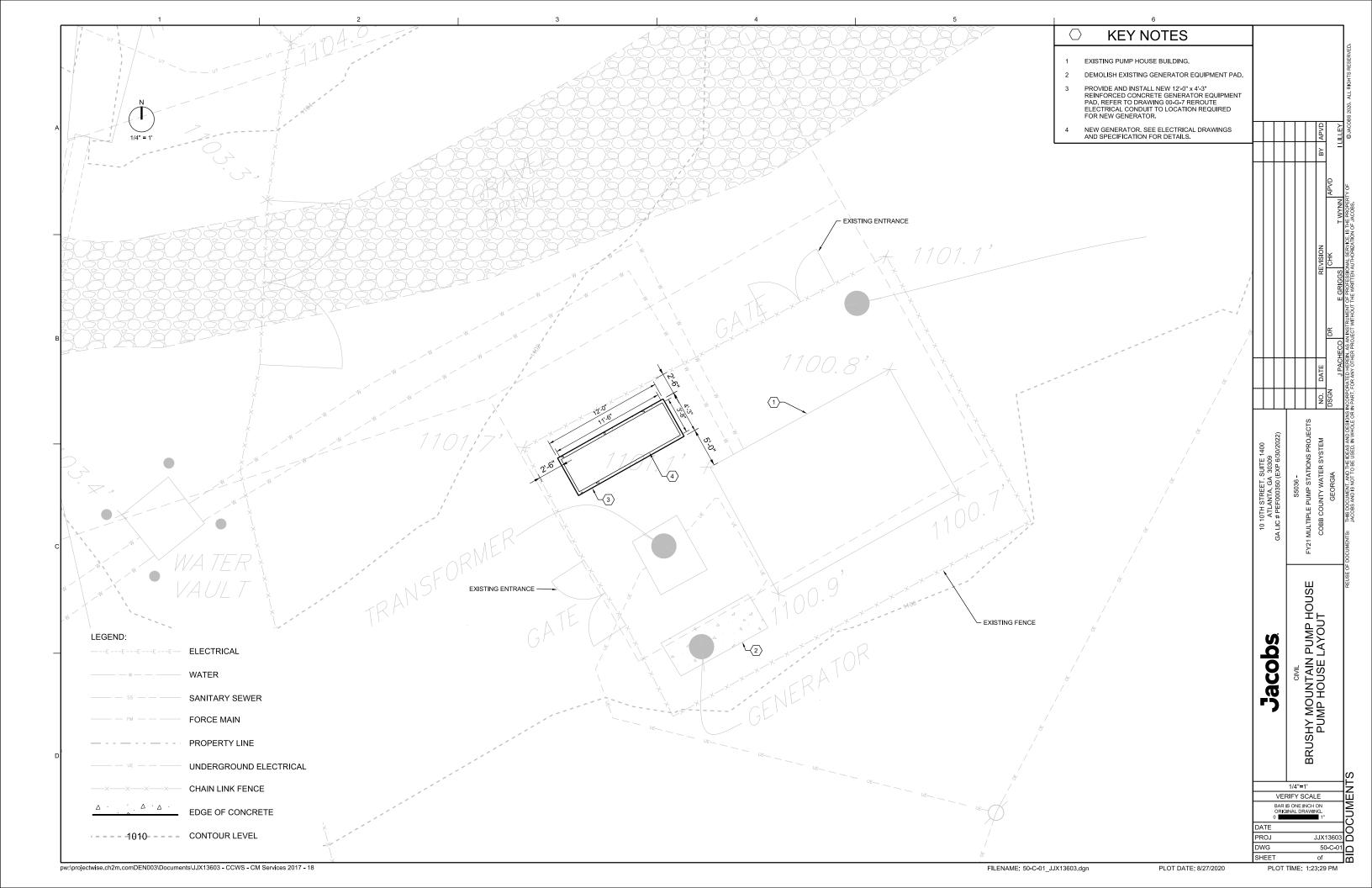
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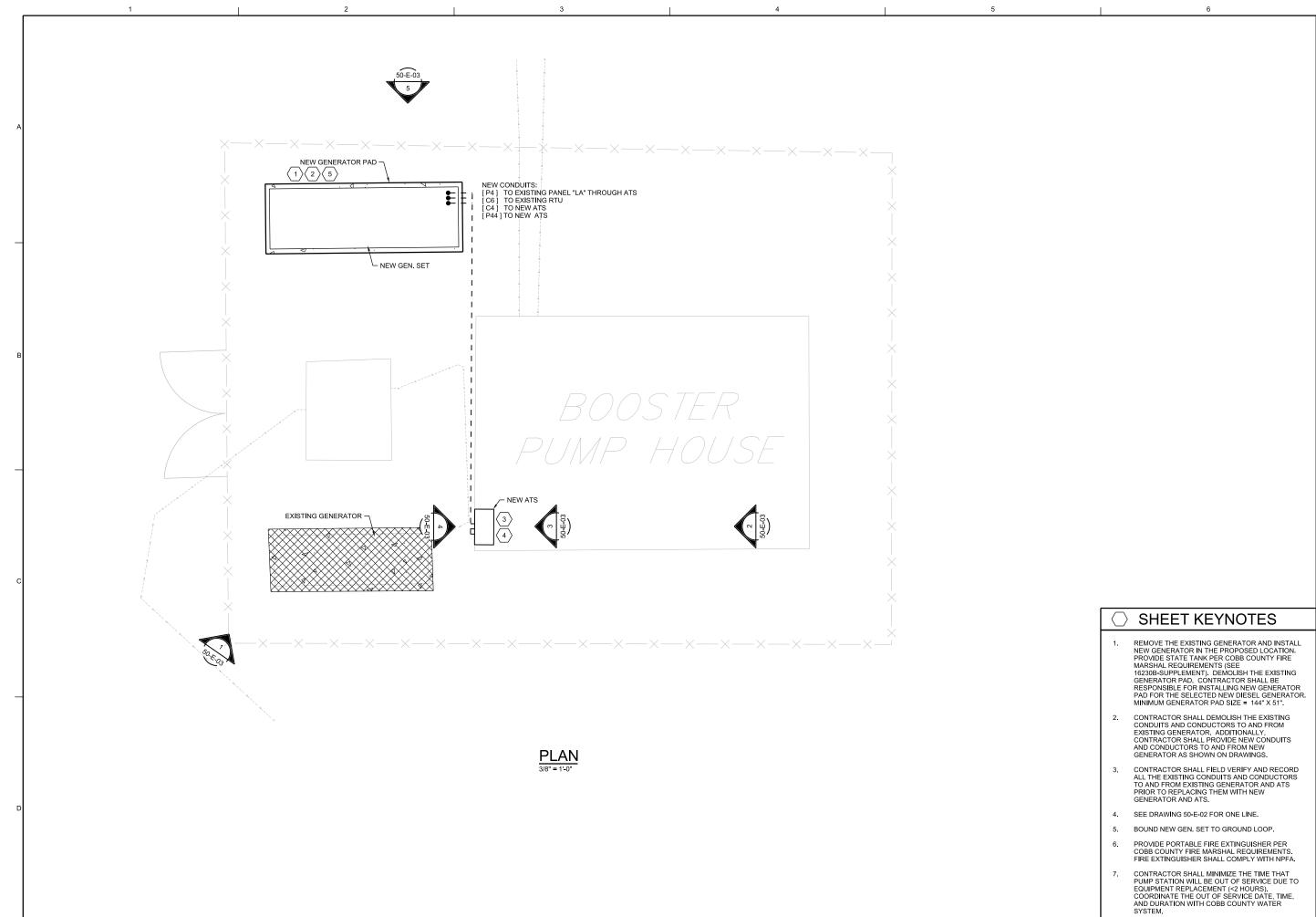
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Jacobs

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VERIFY SCALE

BRUSHY MOUNTAIN PUMP HOUSE ELECTRICAL SITE PLAN

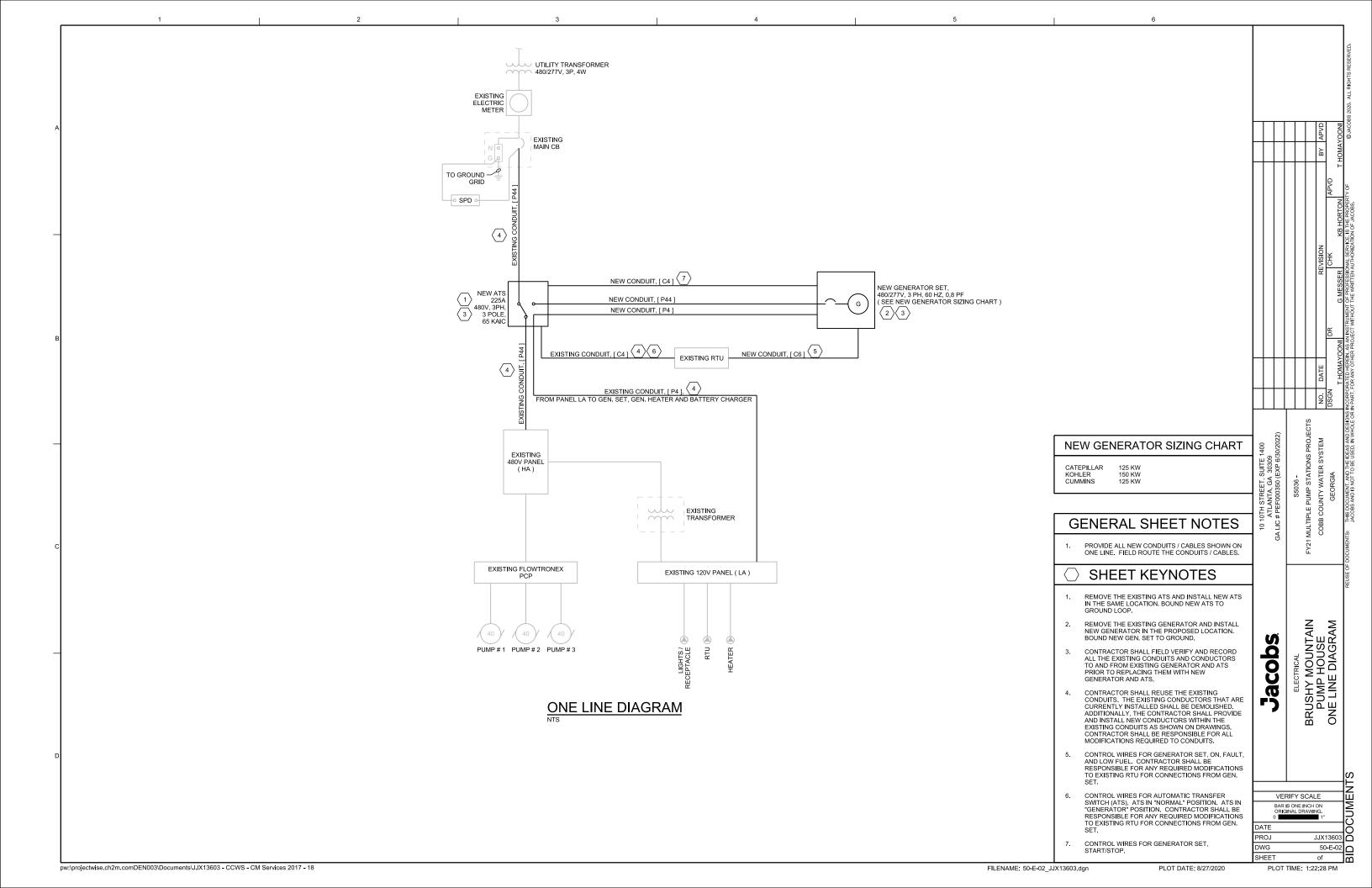


PHOTO DETAIL



PHOTO DETAIL







PROPOSED LOCATION — FOR NEW GENERATOR

PHOTO DETAIL

SHEET KEYNOTES

- EXISTING GENERATOR AND GENERATOR PAD TO BE REMOVED AND REPLACED WITH NEW GENERATOR AT PROPOSED LOCATION. BOND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 50-E-02 FOR ONE LINE AND GENERATOR SIZING CHART.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NEW GENERATOR PAD TO MATCH THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL INSTALL NEW CONDUITS AND CONDUCTORS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED.
- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE REMOVED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 50-E-02 FOR ONE LINE. BOUND NEW ATS TO GROUND LOOP.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- USE THE EXISTING PENETRATION TO CONNECT NEW CONDUCTORS FROM GENERATOR TO ATS AND RTU.

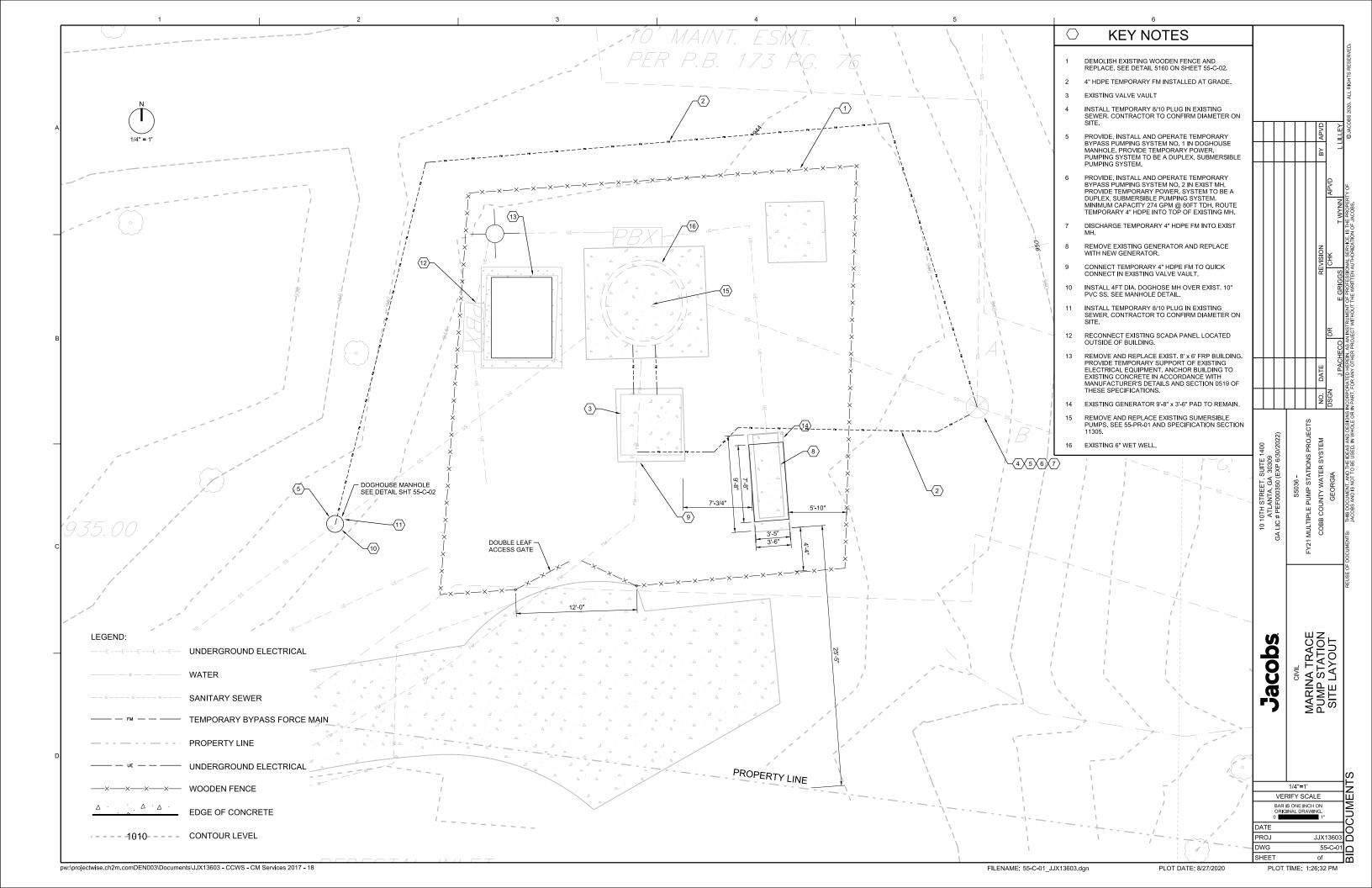
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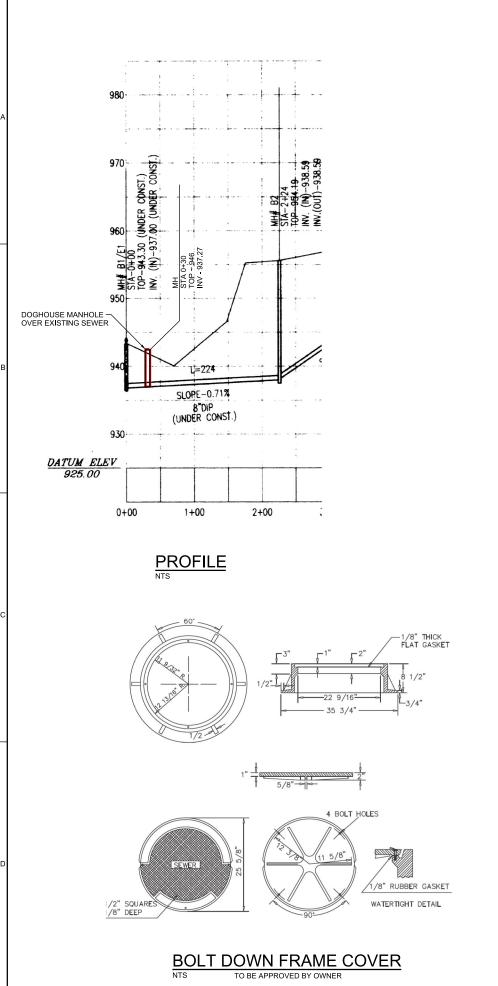
JJX13603 VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 50-E-03 of WG

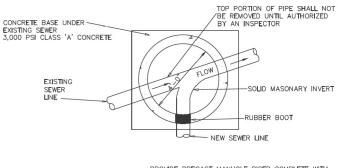
BRUSHY MOUNTAIN PUMP HOUSE PHOTO DETAILS

Jacobs

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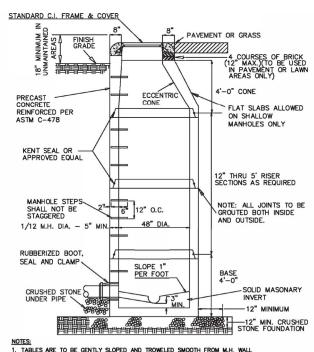






PROVIDE PRECAST MANHOLE RISER COMPLETE WITH UP-SIDE DOWN U-SHAPED OPENING TO SUIT EXISTING LINES NOTE: TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM MANHOLE WALL CORED AND BOOTED OPENING TO SUIT PROPOSED PIPELINES. TO INVERT WALL HEIGHT AND CONSTRUCTED OF SOLID MASONARY RUBBER BOOT PROPOSED LINE -3,000 PSI CLASS 'A' CONCRETE POURED UNDER EXISTING SEWER LINE DOGHOUSE OPENING -CAREFULLY GROUTED WITH NON-SHRINK -12" MINIMUM CEMENT -12" MIN. CRUSHED STONE FOUNDATION #4 REBAR @ 12" E.W. PRECAST INVERT

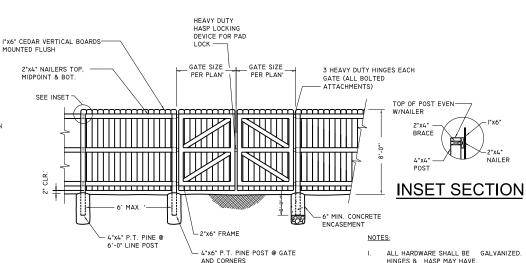
DOGHOUSE MANHOLE



TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM I TO INVERT WALL AND CONSTRUCTED OF SOLID MASONARY.

- CONES WITH CAST IN PLACE FRAMES ARE REQUIRED ON OUTFALL SEWERS IN UNMAINTAINED AREAS.
- 4. BOLT DOWN RING & COVER REQUIRED OUTSIDE OF PAVEMENT.

PRECAST MANHOLE SECTION



ALL HARDWARE SHALL BE GALVANIZED. HINGES & HASP MAY HAVE.

#2 SOUTHERN YELLOW PINE PRESSURE TREATED FOR IN GROUND USE.

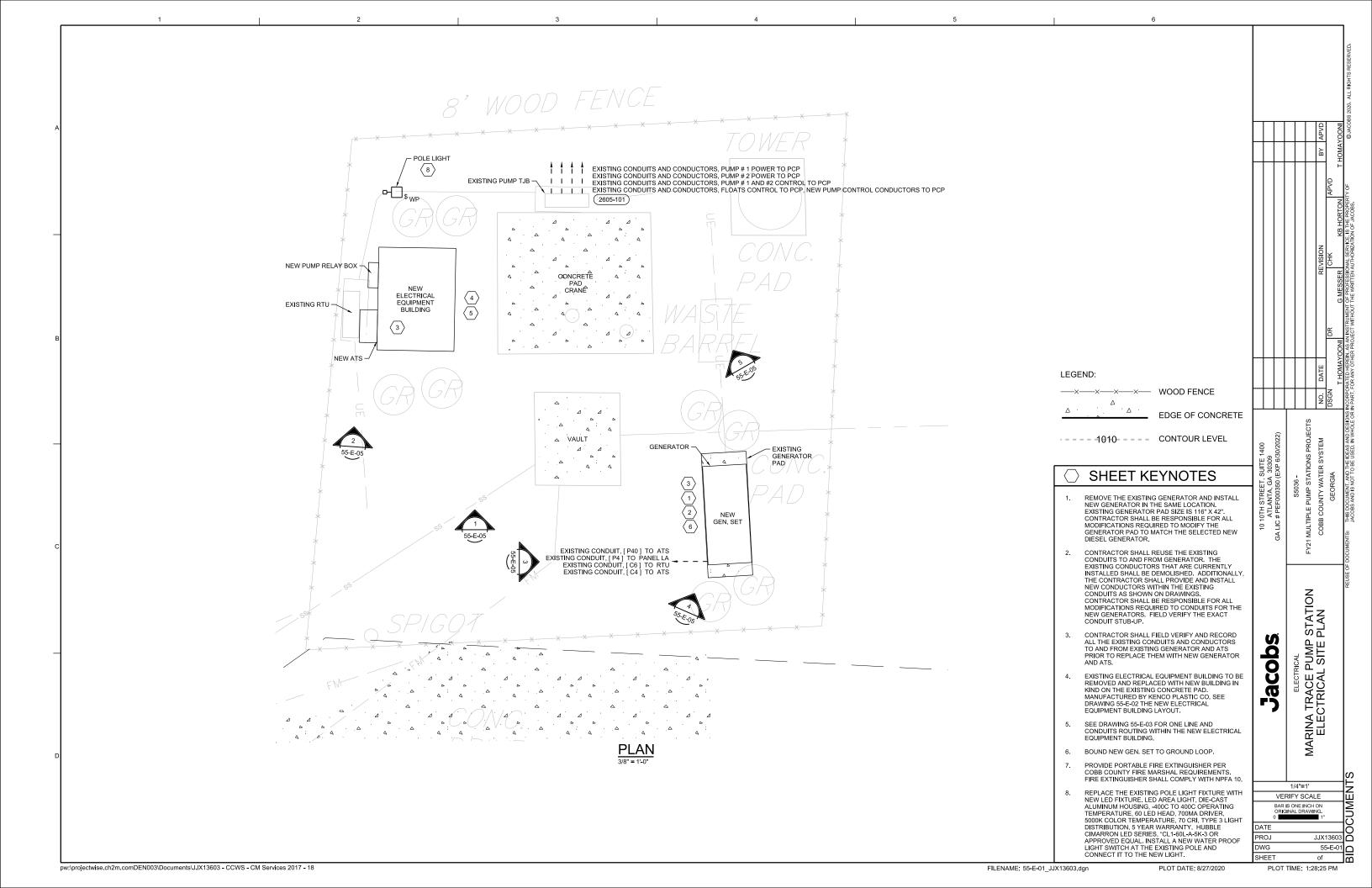
WOODEN FENCE (5160)

GA LIC MARINA TRACE MANHOLE AND FENCE DETAILS Jacobs ALE HON WING.

JJX13603 1/4"=1" VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

PROJ

DWG



LOCATION: MARINA TRACE P.S WIRE: 3 MAIN SIZE: 50A BUS SIZE: 50A NEUTRAL: FULL MOUNTING: SURFACE LOAD IN KVA A B RECEPTACLES
INT. LIGHT
SITE LIGHT 0.5 0.5 1.5 1.5 HEATER 2 GEN. BATT. CHARGER SPARE 1.0 20/2 17 18 20/2 SPARE SPARE

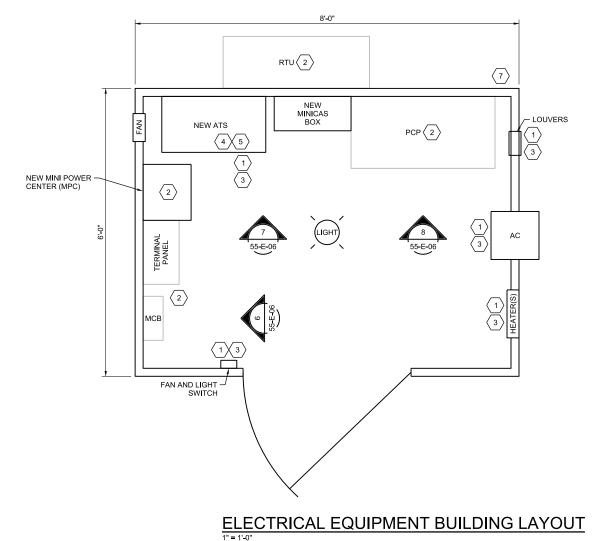
SERVICE VOLTAGE: 120/240V TOTAL LOAD KVA: 7.1

LOAD IN KVA

REMARKS:

0.4

0.5



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SHEET KEYNOTES

- EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND ON THE EXISTING CONCRETE PAD. FAN, HEATER, INTERIOR LIGHT, AC UNIT, RECEPTACLES, AND ASSOCIATED
 SWITCHES WILL BE FURNISHED BY BUILDING
 VENDOR (KENCO PLASTIC CO.) CONTRACTOR
- EXISTING EQUIPMENT AND SUPPORTS TO REMAIN. DISCONNECT THE EXISTING UNISTRUT FROM THE WALLS. PROVIDE TEMPORARY SUPPORT TO ENSURE EQUIPMENT AND ASSOCIATED CONDUITS ARE STABLE AND PROTECTED. RECONNECT TO NEW BUILDING STRUCTURE.
- COORDINATE WITH BUILDING VENDOR (KENCO PLASTIC CO.) TO ENSURE THE LOCATION FOR NEW AC, HEATER, FAN, AND LOUVERS DO NOT CONFLICT WITH EXISTING BUILDING LAYOUT AND EQUIPMENT THAT ARE TO BE REMAIN.
- REMOVE THE EXISTING ATS AND INSTALL NEW ATS IN THE LOCATION SHOWN. CONTRACTOR SHALL FIELD VERIFY AND RECORD ALL THE EXISTING CONDUITS AND CONDUCTORS TO AND FROM EXISTING ATS PRIOR TO REPLACE IT WITH NEW ATS. BOUND NEW ATS TO GROUND LOOP.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS.
- SEE DRAWING 55-E-03 FOR ONE LINE DIAGRAM.
- BOND NEW BUILDING, ALL RACK EQUIPMENT, AND
- CONTRACTOR SHALL MINIMIZE THE TIME THAT PUMP STATION WILL BE OUT OF SERVICE DUE EQUIPMENT REPLACEMENT (<2 HOURS). COORDINATE THE OUT OF SERVICE DATE, TIME

SHALL PROVIDE NEW CONDUITS AND CONDUCTORS.

- SUPPORT TO GROUND LOOP.
- PROVIDE PORTABLE FIRE EXTINGUISHER INSIDE THE BUILDING PER COBB COUNTY FIRE MARSHALL REQUIREMENTS.

ALE WING.

JJX13603 VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 55-E-02 of

MARINA TRACE PUMP STATION ELECTRICAL EQUIPMENT BUILDING LAYOUT AND PANEL SCHEDULE

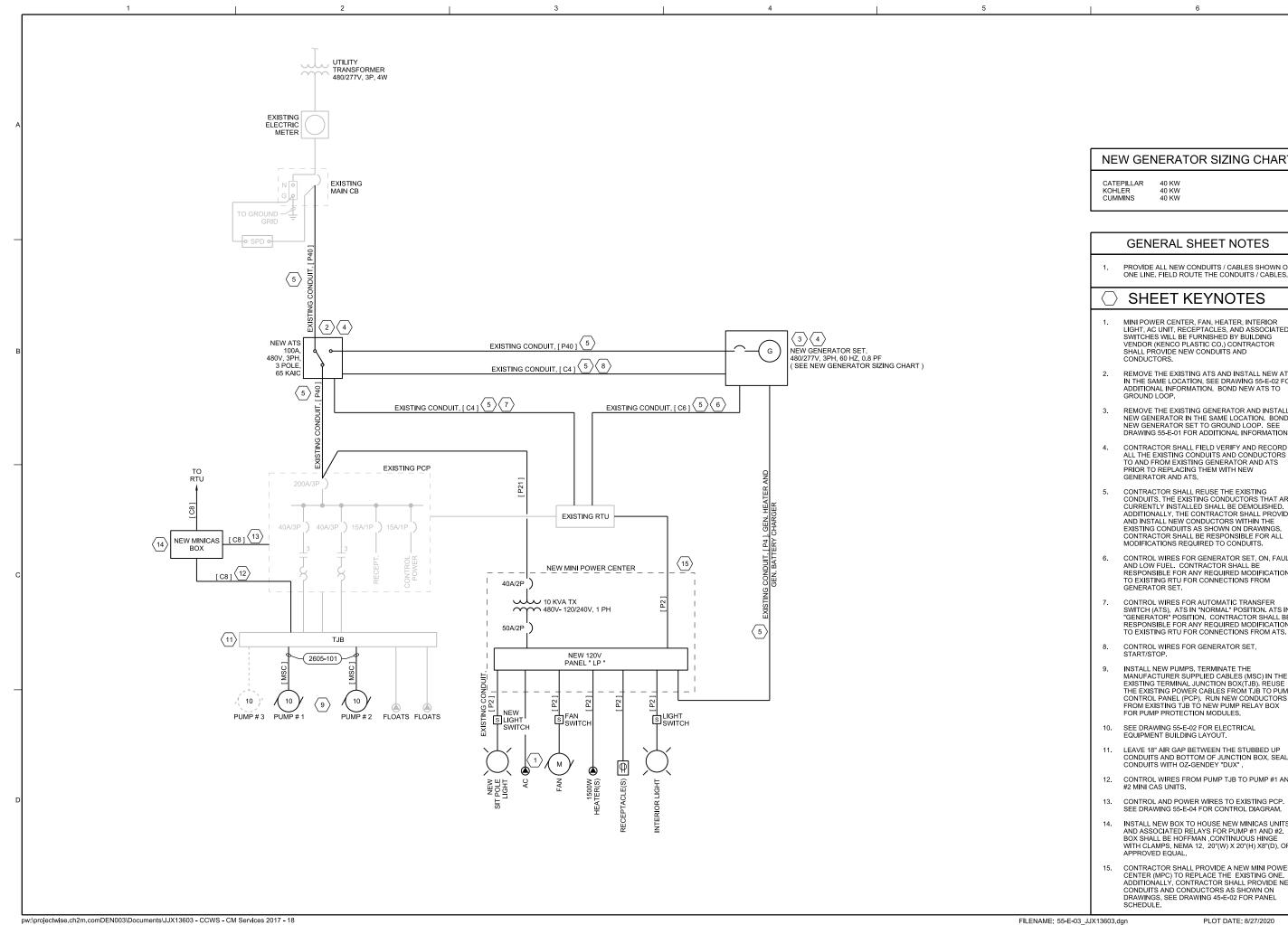
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FILENAME: 55-E-02 JJX13603.dgn

PLOT DATE: 8/27/2020

PROJ WG PLOT TIME: 1:28:40 PM



NEW GENERATOR SIZING CHART

40 KW 40 KW 40 KW

GENERAL SHEET NOTES

PROVIDE ALL NEW CONDUITS / CABLES SHOWN ON ONE LINE. FIELD ROUTE THE CONDUITS / CABLES.

SHEET KEYNOTES

- MINI POWER CENTER, FAN, HEATER, INTERIOR LIGHT, AC UNIT, RECEPTACLES, AND ASSOCIATED SWITCHES WILL BE FURNISHED BY BUILDING VENDOR (KENCO PLASTIC CO.) CONTRACTOR SHALL PROVIDE NEW CONDUITS AND
- REMOVE THE EXISTING ATS AND INSTALL NEW ATS IN THE SAME LOCATION, SEE DRAWING 55-E-02 FOR ADDITIONAL INFORMATION. BOND NEW ATS TO
- REMOVE THE EXISTING GENERATOR AND INSTALL NEW GENERATOR IN THE SAME LOCATION. BOND NEW GENERATOR SET TO GROUND LOOP. SEE DRAWING 55-E-01 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL FIELD VERIFY AND RECORD ALL THE EXISTING CONDUITS AND CONDUCTORS TO AND FROM EXISTING GENERATOR AND ATS PRIOR TO REPLACING THEM WITH NEW
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS.
- CONTROL WIRES FOR GENERATOR SET, ON, FAULT, AND LOW FUEL. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED MODIFICATIONS TO EXISTING RTU FOR CONNECTIONS FROM GENERATOR SET.
- CONTROL WIRES FOR AUTOMATIC TRANSFER SWITCH (ATS) ATS IN "NORMAL" POSITION ATS IN "GENERATOR" POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED MODIFICATIONS
- CONTROL WIRES FOR GENERATOR SET, START/STOP.
- INSTALL NEW PUMPS. TERMINATE THE MANUFACTURER SUPPLIED CABLES (MSC) IN THE EXISTING TERMINAL JUNCTION BOX(TJB). REUSE THE EXISTING POWER CABLES FROM TJB TO PUMP CONTROL PANEL (PCP). RUN NEW CONDUCTORS FROM EXISTING TJB TO NEW PUMP RELAY BOX
- 10. SEE DRAWING 55-E-02 FOR ELECTRICAL
- LEAVE 18" AIR GAP BETWEEN THE STUBBED UP CONDUITS AND BOTTOM OF JUNCTION BOX. SEAL CONDUITS WITH OZ-GENDEY "DUX".
- 12. CONTROL WIRES FROM PUMP TJB TO PUMP #1 AND #2 MINI CAS UNITS.
- CONTROL AND POWER WIRES TO EXISTING PCP. SEE DRAWING 55-E-04 FOR CONTROL DIAGRAM.
- INSTALL NEW BOX TO HOUSE NEW MINICAS UNITS AND ASSOCIATED RELAYS FOR PUMP #1 AND #2. BOX SHALL BE HOFFMAN ,CONTINUOUS HINGE WITH CLAMPS, NEMA 12, 20"(W) X 20"(H) X8"(D), OR APPROVED EQUAL.
- CONTRACTOR SHALL PROVIDE A NEW MINI POWER CENTER (MPC) TO REPLACE THE EXISTING ONE.
 ADDITIONALLY, CONTRACTOR SHALL PROVIDE NEW CONDUITS AND CONDUCTORS AS SHOWN ON DRAWINGS. SEE DRAWING 45-E-02 FOR PANEL SCHEDULE.

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JJX13603 VERIFY SCALE BAR IS ONE INCH ON ROJ 55-E-03 <u>M</u> WG HEET PLOT TIME: 1:28:35 PM

MARINA TRACE PUMP STATION ONE LINE DIAGRAM

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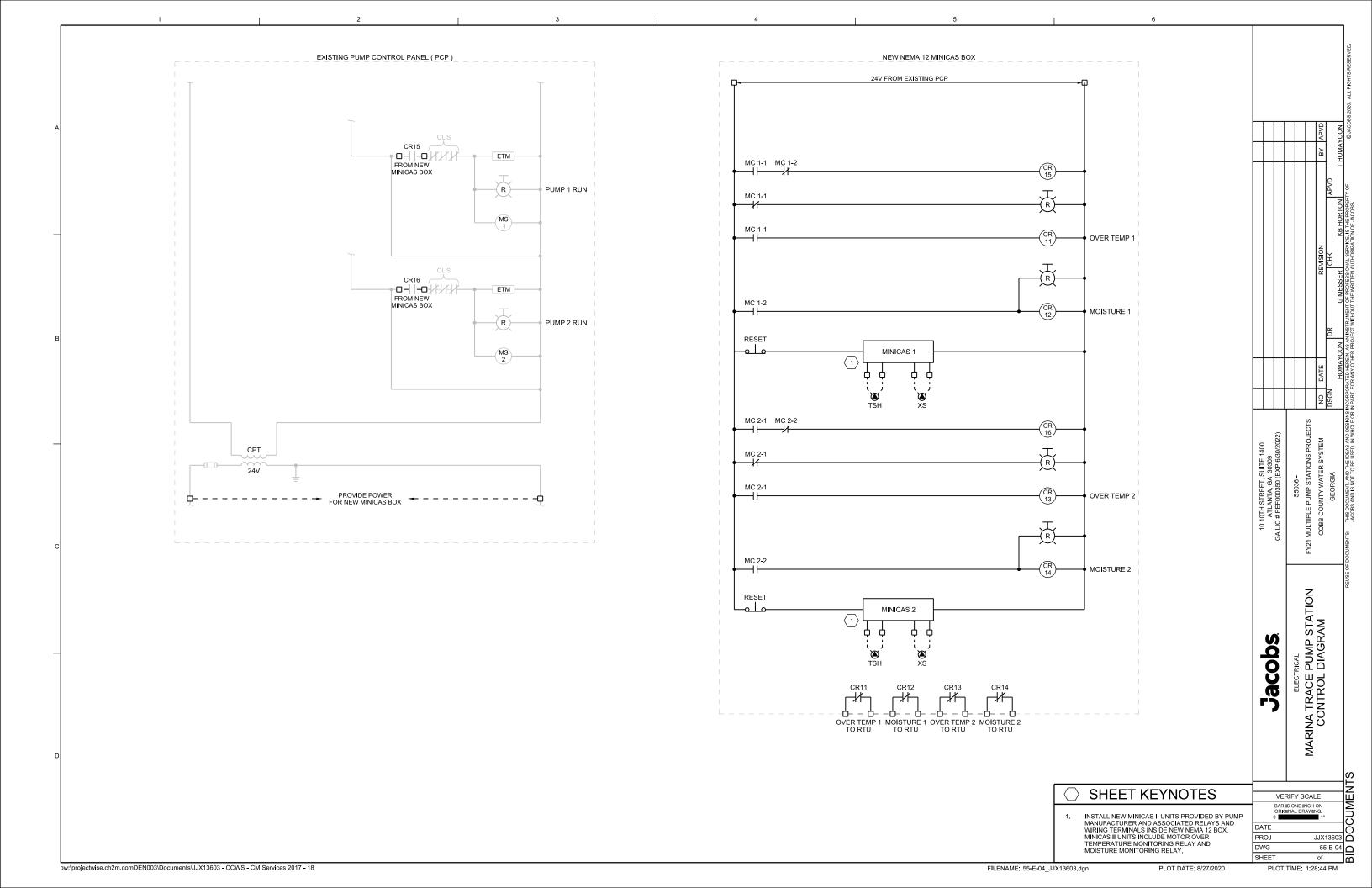










PHOTO DETAIL
NTS



5 PHOTO DETAIL





SHEET KEYNOTES

- EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. BOUND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 55-E-03 FOR ONE LINE AND GENERATOR SIZING
- EXISTING GENERATOR PAD SIZE IS 116" X 42". CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO MODIFY THE GENERATOR PAD TO MATCH THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND. SEE DRAWING 55-E-02 FOR ELECTRICAL EQUIPMENT BUILDING LAYOUT.
- TERMINATE THE MANUFACTURER SUPPLIED CABLES (MSC) FOR THE NEW PUMPS IN THE EXISTING TERMINAL JUNCTION BOX (TJB). REUSE THE EXISTING POWER CONDUCTORS FROM TJB TO PUMP CONTROL PANEL (PCP). RUN NEW CONDUCTORS FROM EXISTING TJB TO NEW PUMP RELAY BOX FOR PUMP PROTECTION MODULES.

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		GA LIC # PEF000350 (EXP 6/30/2022)	

MARINA TRACE PUMP ST PHOTO DETAILS

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

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MARINA TRACE PUMP STATION PHOTO DETAILS

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9 PHOTO DETAIL





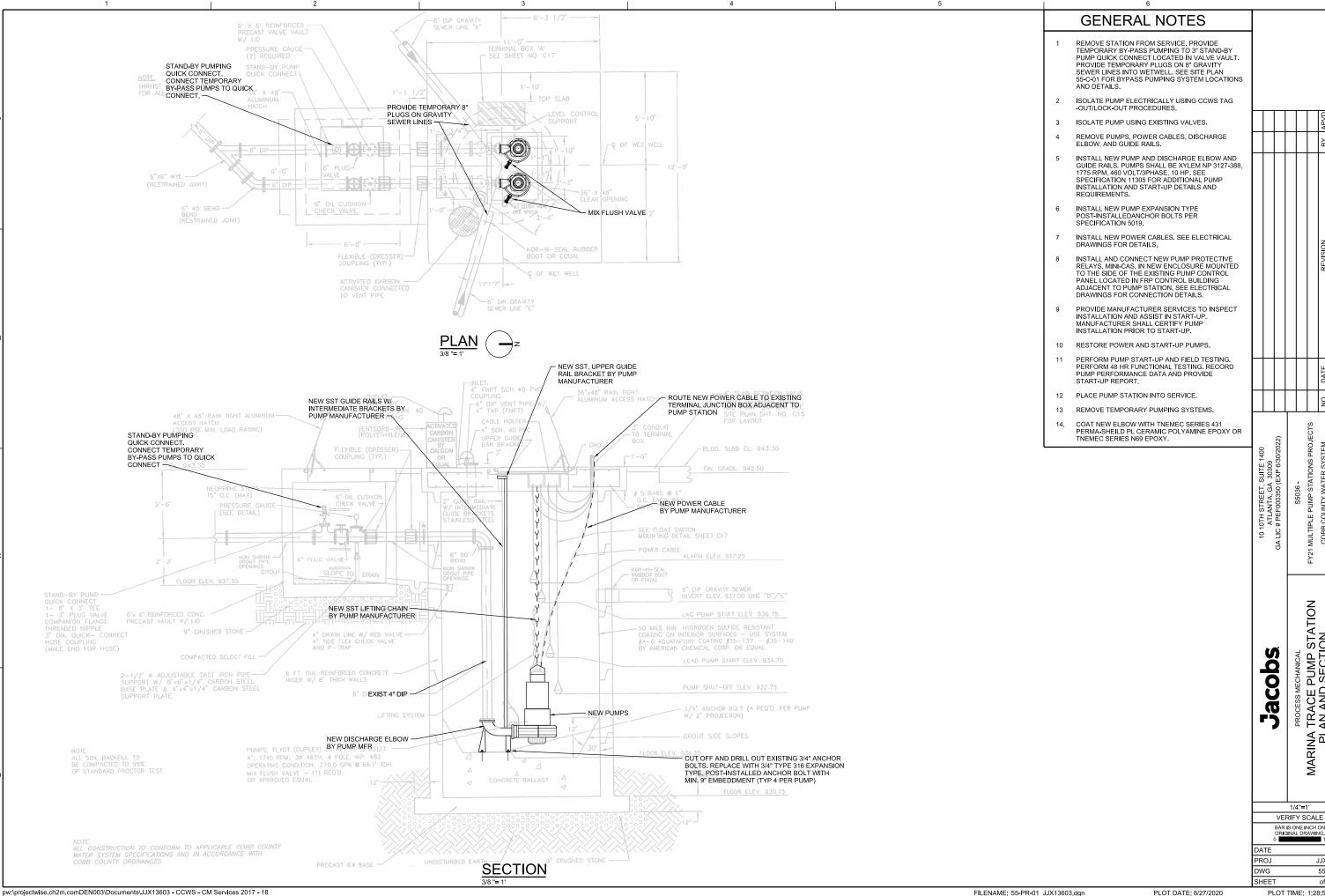
SHEET KEYNOTES

EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE REMOVED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 55-E-03 FOR ONE LINE. BOUND NEW ATS TO GROUND LOOP.

CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.

EXISTING BUILDING TO BE REMOVED AND REPLACED WITH NEW BUILDING IN KIND. FAN, HEATER, INTERIOR LIGHT, AC UNIT, RECEPTACLES, AND ASSOCIATED SWITCHES WILL BE FURNISHED BY BUILDING VENDOR (KENCO PLASTIC CO.) CONTRACTOR SHALL PROVIDE NEW CONDUITS AND CONDUCTORS.

EXISTING EQUIPMENT AND SUPPORTS TO REMAIN. DISCONNECT THE EXISTING UNISTRUT FROM THE WALLS. PROVIDE TEMPORARY SUPPORT TO ENSURE EQUIPMENT AND ASSOCIATED CONDUITS ARE STABLE AND PROTECTED. RECONNECT TO NEW BUILDING STRUCTURE.

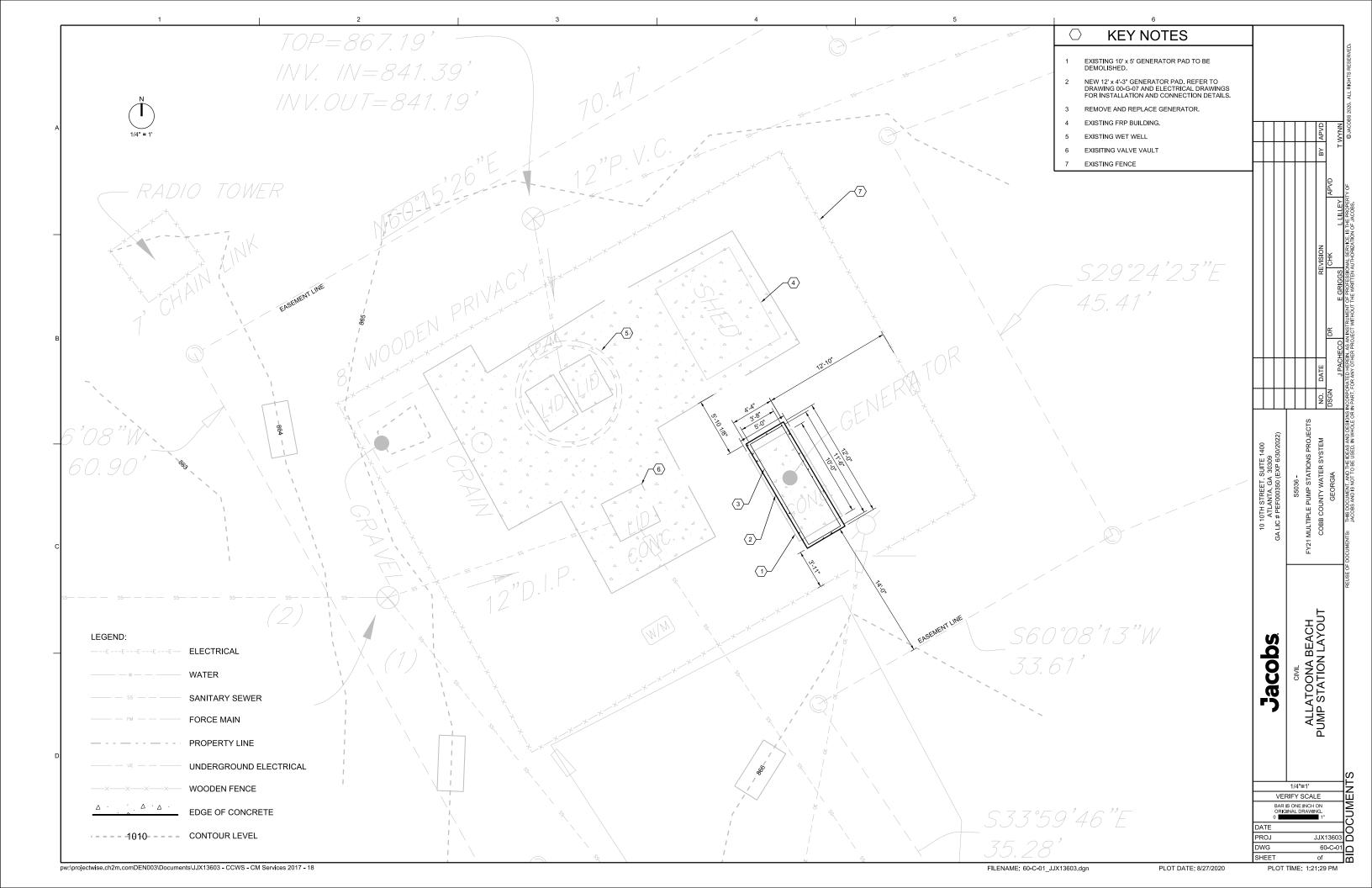


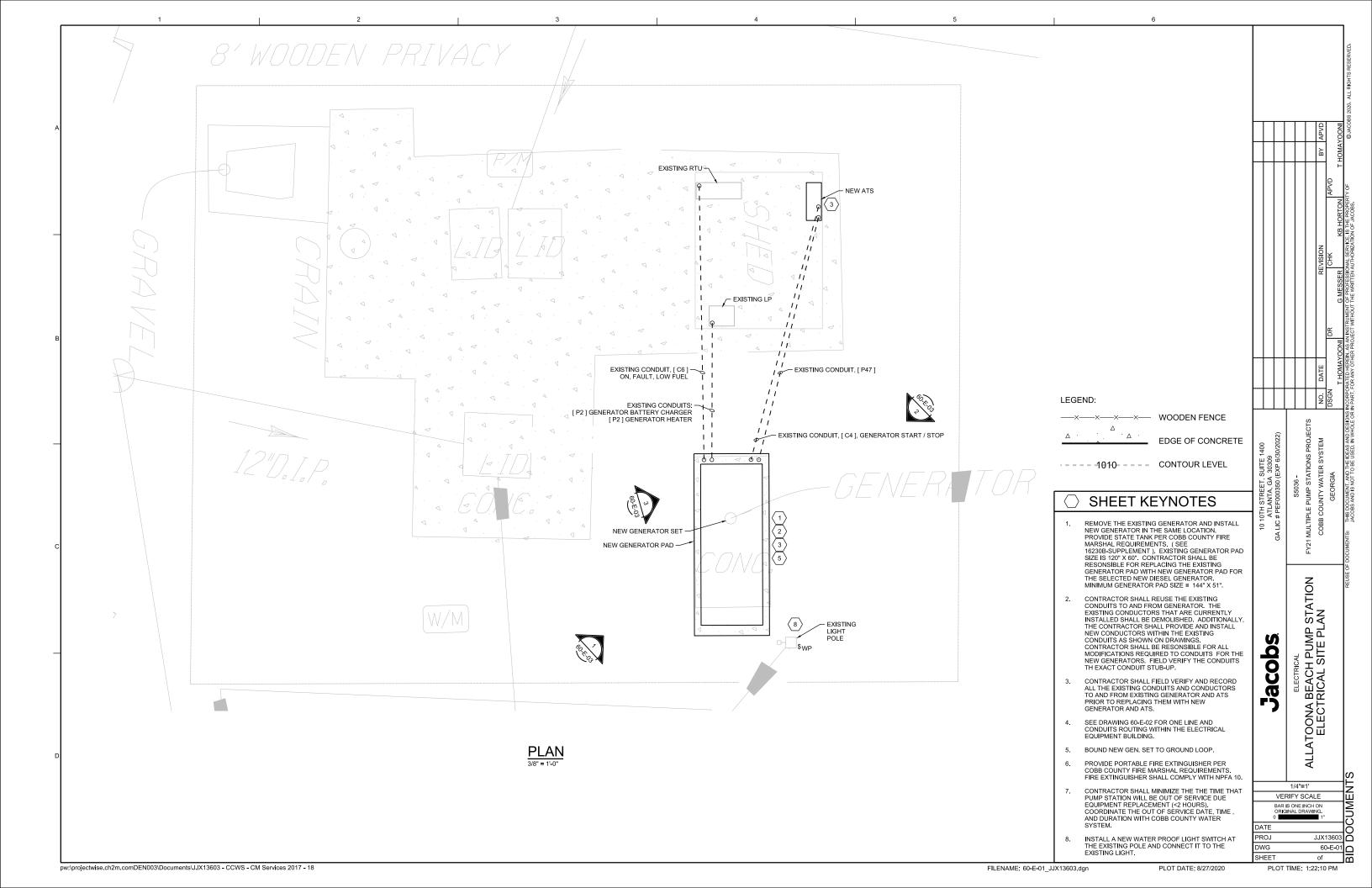
PROCESS MECHANICAL
MARINA TRACE PUMP STATION
PLAN AND SECTION

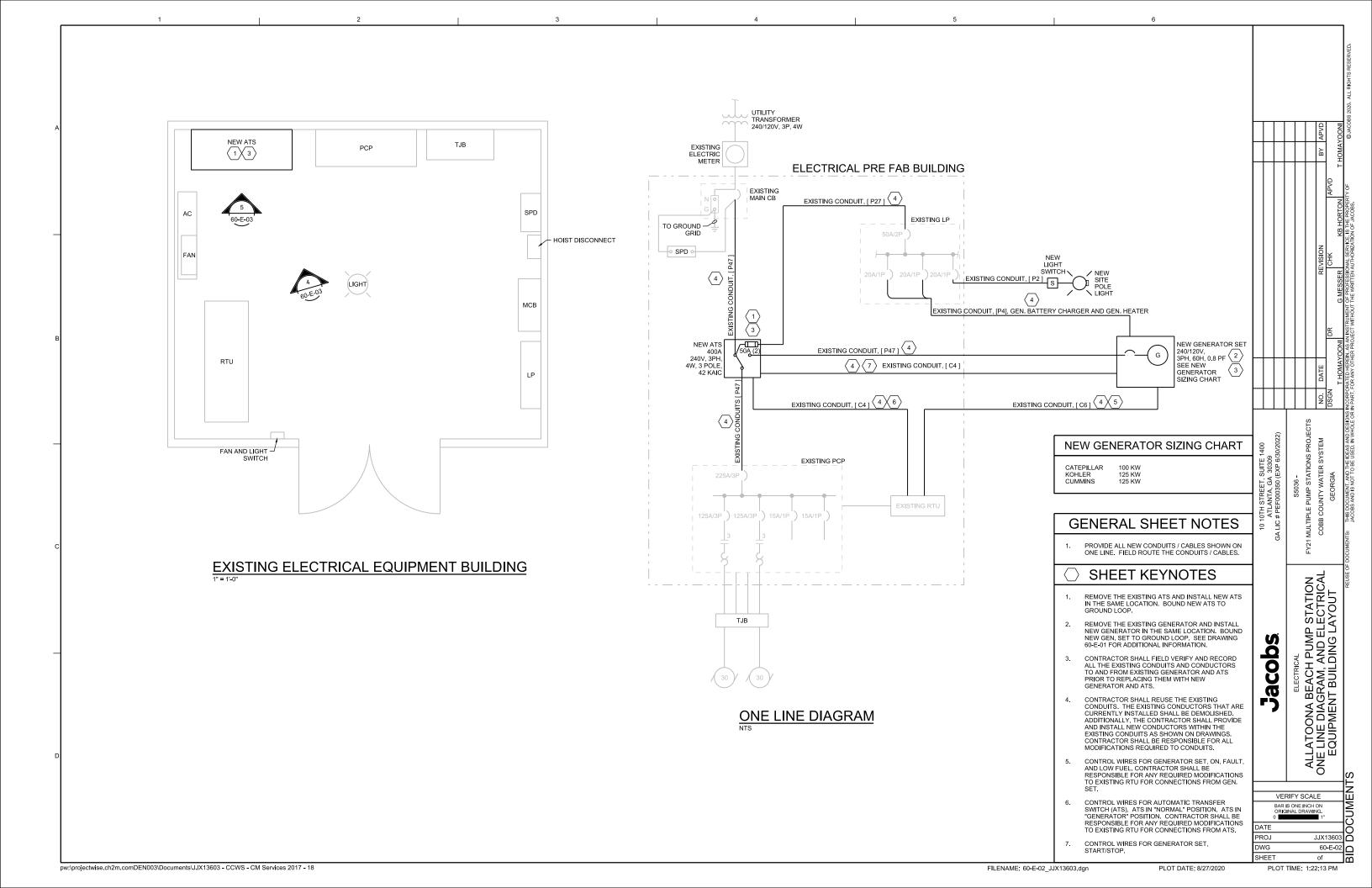
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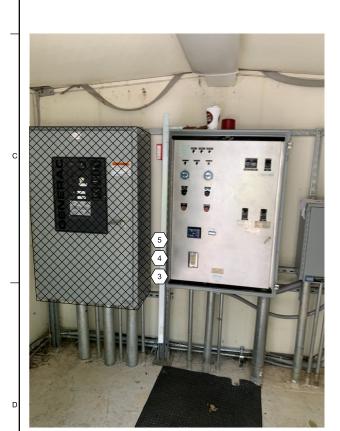


















SHEET KEYNOTES

- EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. BOUND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 60-E-02 FOR ONE LINE AND GENERATOR SIZING
- EXISTING GENERATOR PAD SIZE IS 120" X 60". CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE GENERATOR PAD WITH NEW GENERATOR PAD TO MATCH THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE DEMOLISHED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 60-E-02 FOR ONE LINE. BOUND NEW ATS TO GROUND LOOP.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.

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ELECTRICAL NA BEACH PUMP STATION PHOTO DETAILS	S5036 - FY21 MULTIPLE PUMP STATIONS P COBB COUNTY WATER SYST GEORGIA
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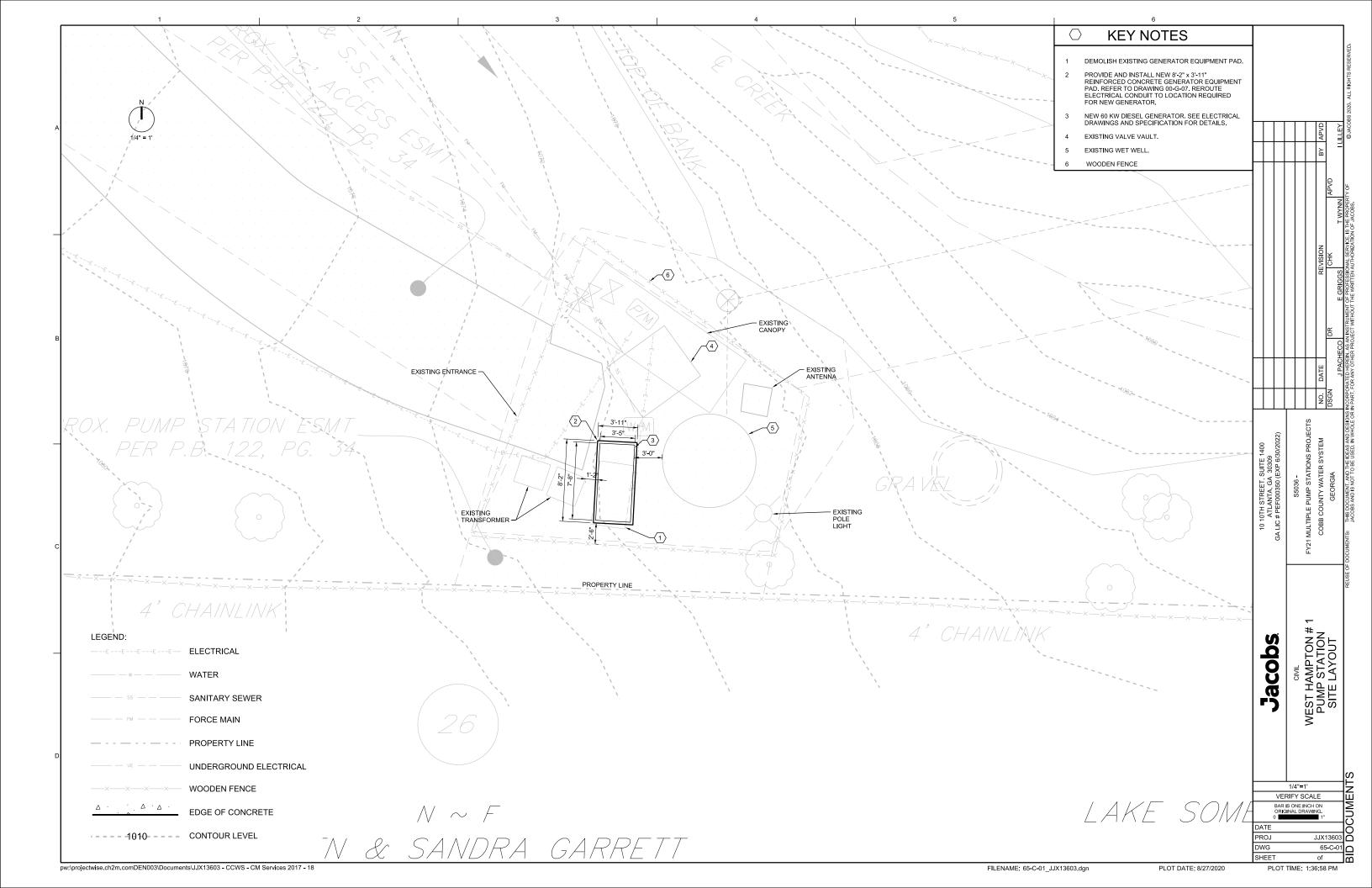
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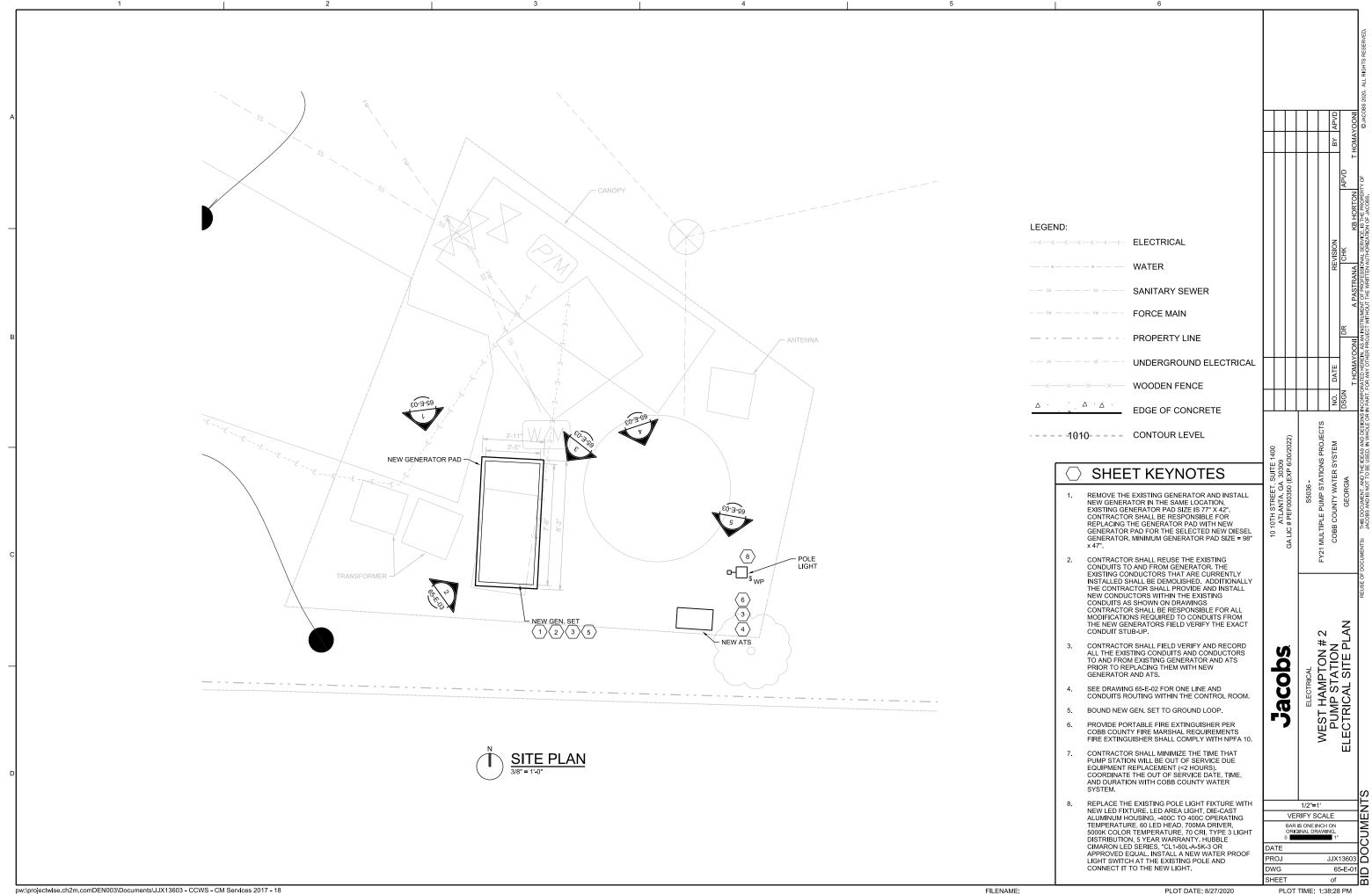
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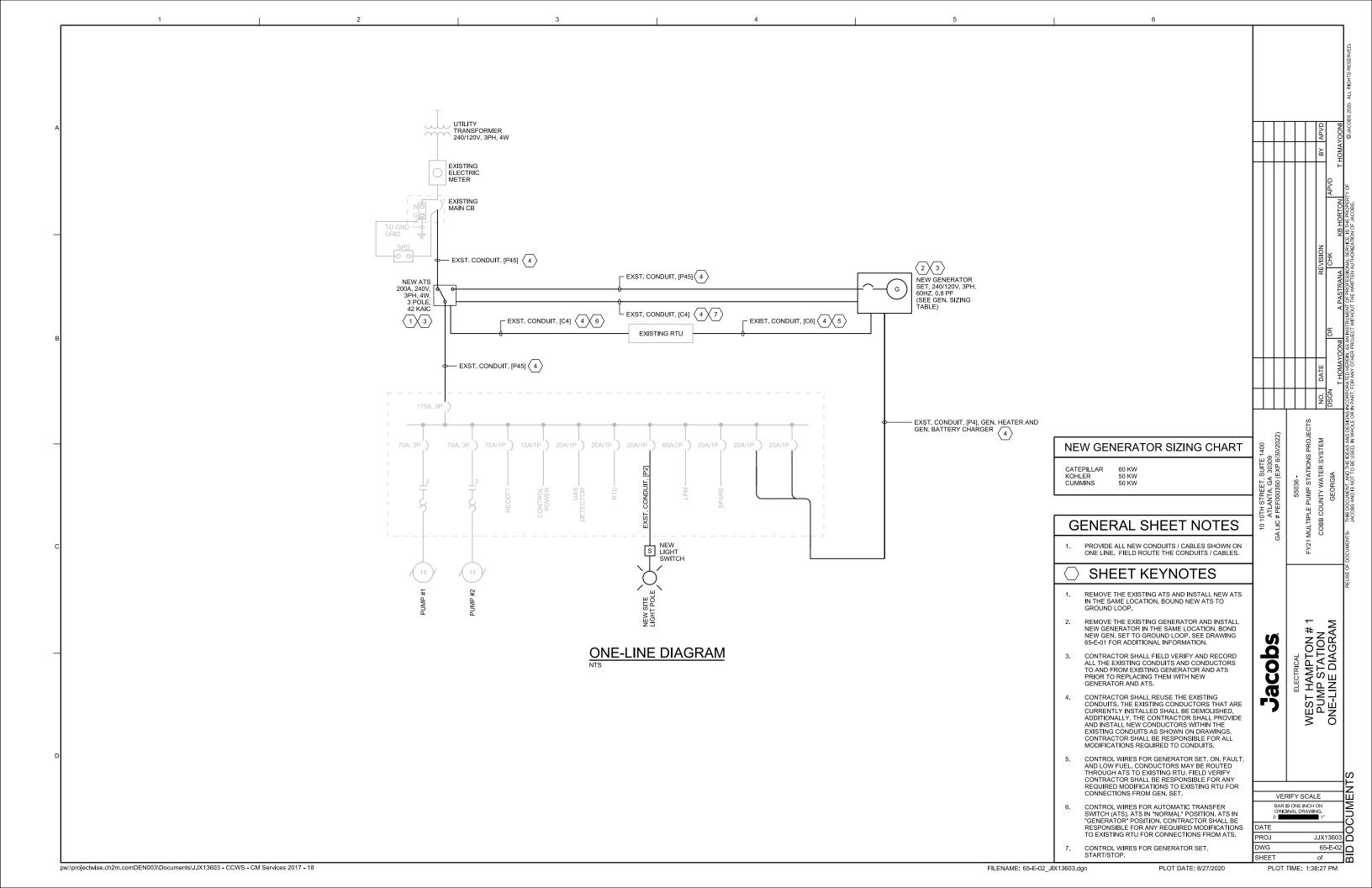
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EXISTING GENERATOR TO BE REPLACED WITH NEW GENERATOR SET LEXISTING UTILITY TRANSFORMERS

PHOTO DETAIL

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3

POWER CONDUCTORS TO ATS

CONTROL CONDUCTORS TO ATS POWER CONDUCTORS TO PCP

SHEET KEYNOTES

- EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. BOUND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 65-E-02 FOR ONE-LINE DIAGRAM AND GENERATOR
- SIZING CHART. EXISTING GENERATOR PAD SIZE IS 77" X 42". CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE GENERATOR PAD WITH NEW GENERATOR PAD FOR THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE REMOVED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. BOUND NEW ATS TO GROUND LOOP. SEE DRAWING 65-E-02 FOR ONE LINE.
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.

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WEST HAMPTON # 1 PUMP STATION PHOTO DETAILS

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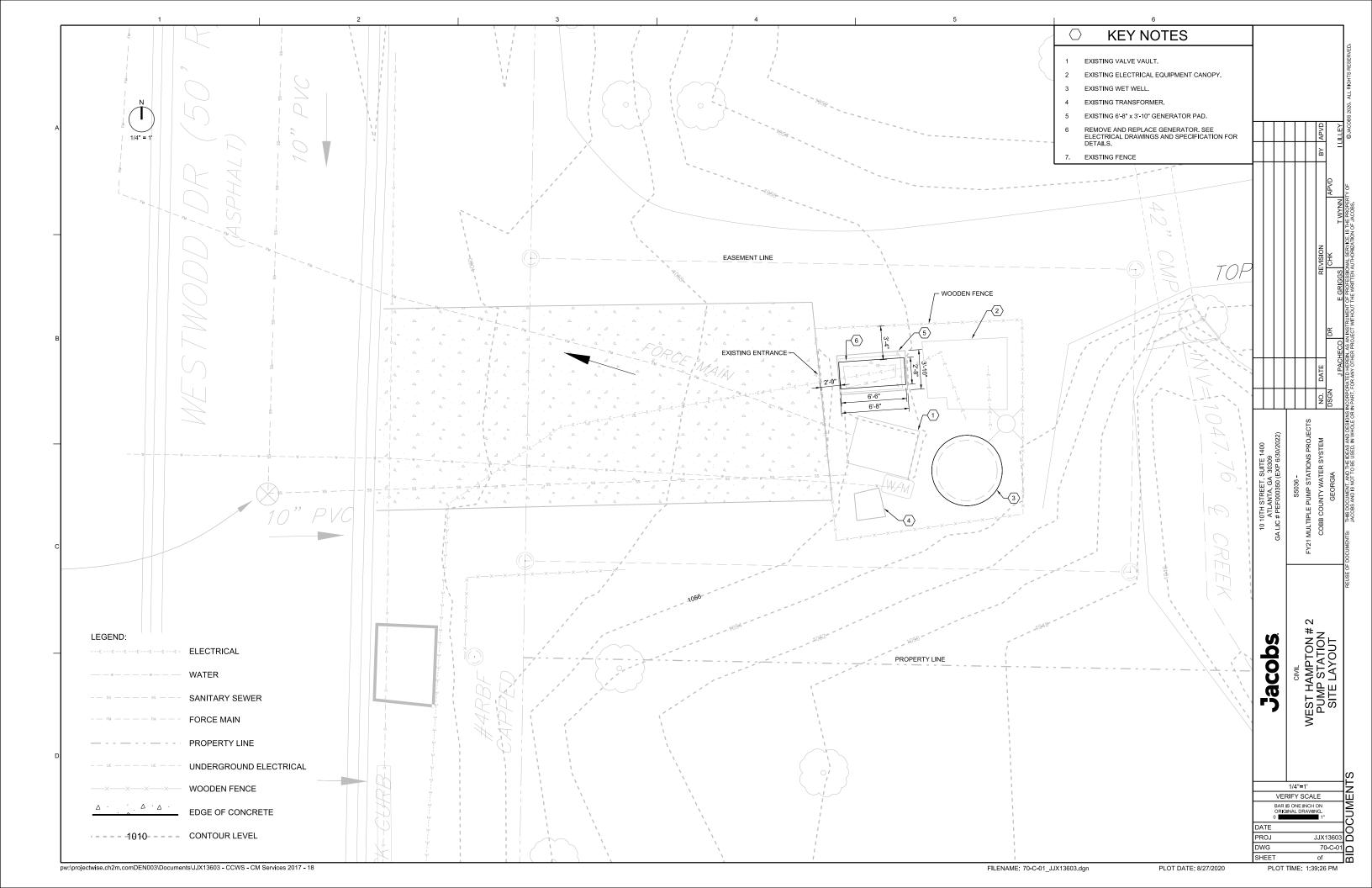
EXISTING ATS TO BE REPLACED WITH

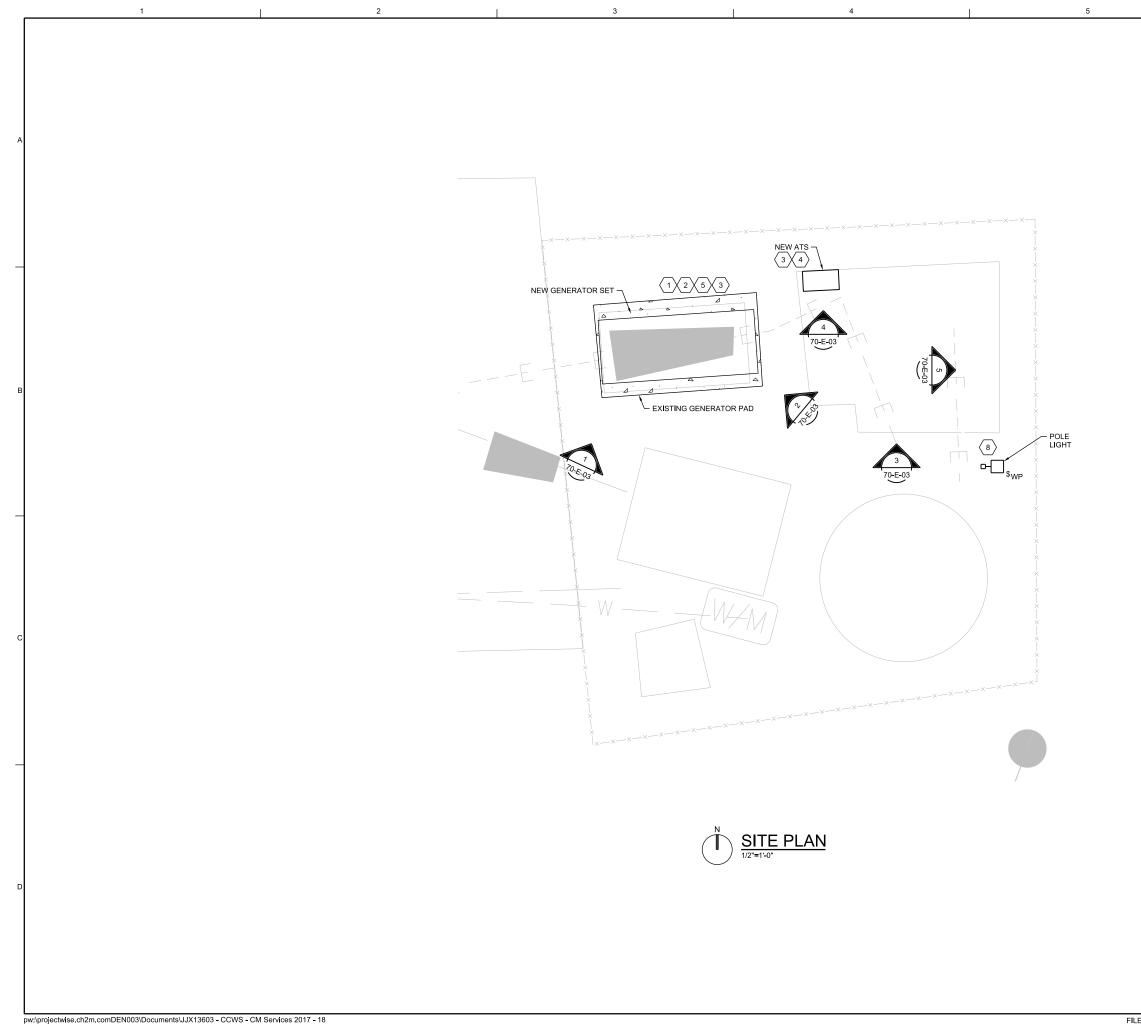
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THE EXACT CONDUIT STUB-UP. FILENAME: 65-E-03_JIX13603.dgn





SHEET KEYNOTES

- REMOVE THE EXISTING GENERATOR AND INSTALL REMOVE THE EXISTING GENERATOR AND INSTALL NEW GENERATOR IN THE SAME LOCATION. EXISTING GENERATOR PAD SIZE IS 84" X 48". CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO MODIFY THE EXISTING GENERATOR PAD FOR THE SELECTED NEW DIESEL GENERATOR.
- CONTRACTOR SHALL REUSE THE EXISTING
 CONDUITS TO AND FROM GENERATOR. THE
 EXISTING CONDUCTORS THAT ARE CURRENTLY
 INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY
 THE CONTRACTOR SHALL PROVIDE AND INSTALL
 NEW CONDUCTORS WITHIN THE EXISTING
 CONDUITS AS SHAWINGS NEW CONDUCTORS WITHIN THE EXISTING
 CONDUITS AS SHOWN ON DRAWINGS
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL
 MODIFICATIONS REQUIRED TO CONDUITS FROM
 THE NEW GENERATORS FIELD VERIFY THE EXACT
 CONDUIT STUB-UP.
- CONTRACTOR SHALL FIELD VERIFY AND RECORD ALL THE EXISTING CONDUITS AND CONDUCTORS TO AND FROM EXISTING GENERATOR AND ATS PRIOR TO REPLACING THEM WITH NEW
- SEE DRAWING 70-E-02 FOR ONE LINE AND
- BOUND NEW GENERATOR SET TO GROUND LOOP.
- PROVIDE PORTABLE FIRE EXTINGUISHER PER COBB COUNTY FIRE MARSHAL REQUIREMENTS FIRE EXTINGUISHER SHALL COMPLY WITH NPFA 10.
- CONTRACTOR SHALL MINIMIZE THE TIME THAT PUMP STATION WILL BE OUT OF SERVICE DUE EQUIPMENT REPLACEMENT (<2 HOURS). COORDINATE THE OUT OF SERVICE DATE, TIME, AND DURATION WITH COBB COUNTY WATER SYSTEM.
- REPLACE THE EXISTING POLE LIGHT FIXTURE WITH NEW LED FIXTURE. LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, -400C TO 400C OPERATING TEMPERATURE, 60 LED HEAD, 700MA DRIVER, 5000K COLOR TEMPERATURE, 70 CRI, TYPE 3 LIGHT DISTRIBUTION, 5 YEAR WARRANTY. HUBBLE CIMARON LED SERIES, "CL1-60L-A-5K-3 OR APPROVED EQUAL INSTALL A NEW WATER PROOF LIGHT SWITCH AT THE EXISTING POLE AND CONNECT IT TO THE NEW LIGHT.

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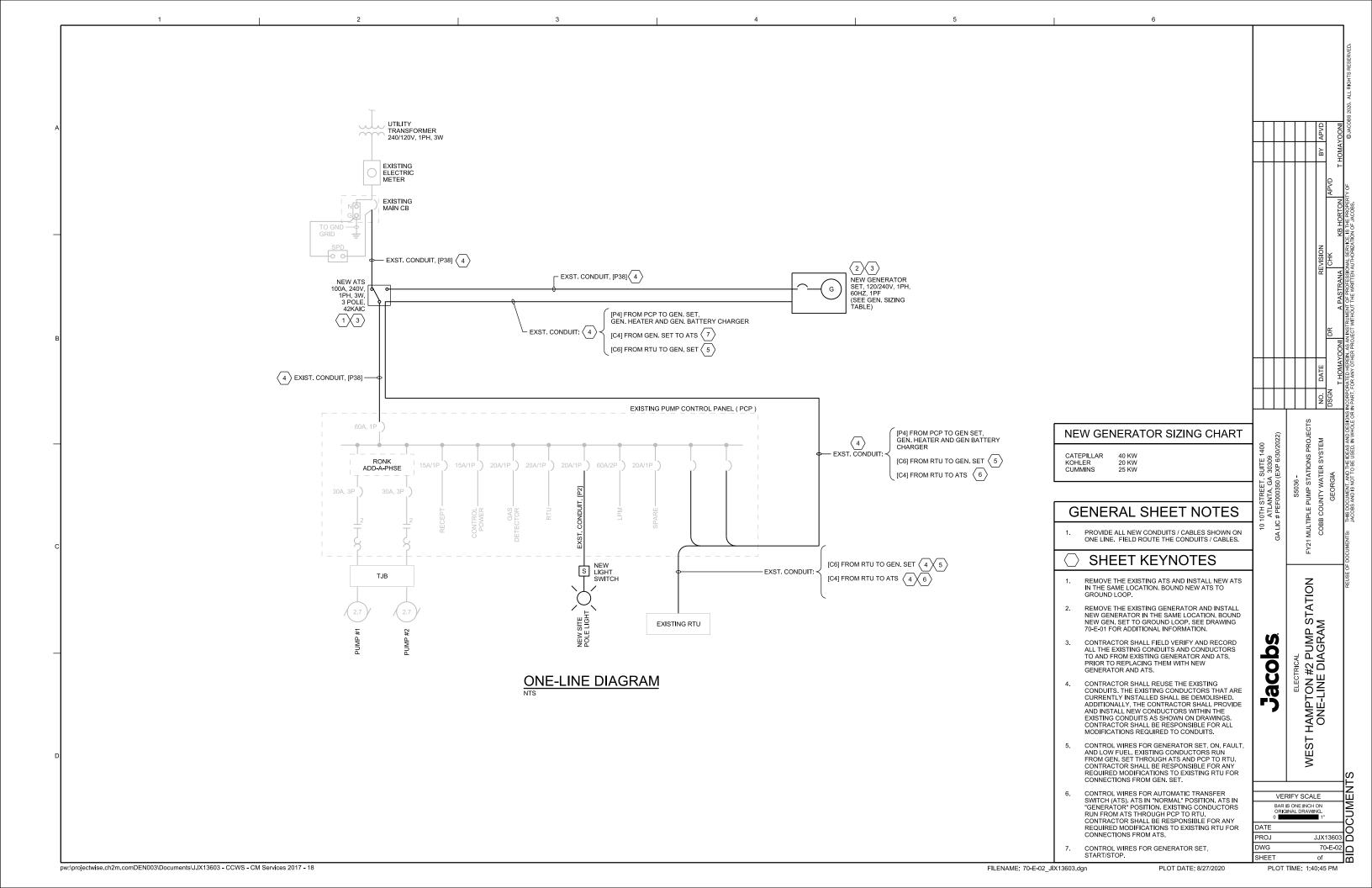
JJX13603 1/2"=1" VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1 ROJ 70-E-01 of HEET of

WEST HAMPTON # 2 PUMP STATION ELECTRICAL SITE PLAN

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EXISTING MAIN CB -AND SPD EXISTING METER -INCOMING POWER FROM -GEN. SET CONTROL CONDUCTORS TO FROM RTU TO ATS CONTROL CONDUCTORS TO FROM RTU TO GEN. SET OWER CONTUCTORS FROM PCP TO GEN. SET FOR BATT. CHARGER AND HEATER

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INCOMING POWER -

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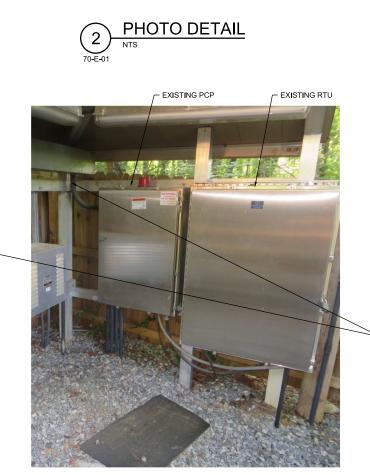


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- CONTROL CONDUCTORS FROM RTU TO ATS CONTROL CONDUCTORS FROM RTU TO GEN. SET POWER CONDUCTORS FROM PCP TO GEN. SET FOR BATT. CHARGER AND HEATER POWER CONDUCTORS FROM ATS TO PCP MAIN CB

- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO
- CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM ATS. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW ATS. FIELD VERIFY THE EXACT CONDUIT STUB-UP. THE EXACT CONDUIT STUB-UP.

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- RONK ADD-A-PHASE

EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. BOUND NEW GEN. SET TO GROUND LOOP. SEE DRAWING 70-E-02 FOR ONE-LINE DIAGRAM AND GENERATOR SIZING CHART.

EXISTING GENERATOR PAD SIZE IS 84" X 48". CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE EXISTING GENERATOR PAD FOR THE SELECTED NEW DIESEL GENERATOR.

BE DEMOLISHED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 70-E-02 FOR ONE LINE. BOUND NEW ATS TO GROUND LOOP.

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WEST HAMPTON #2 PUMP PHOTO DETAILS

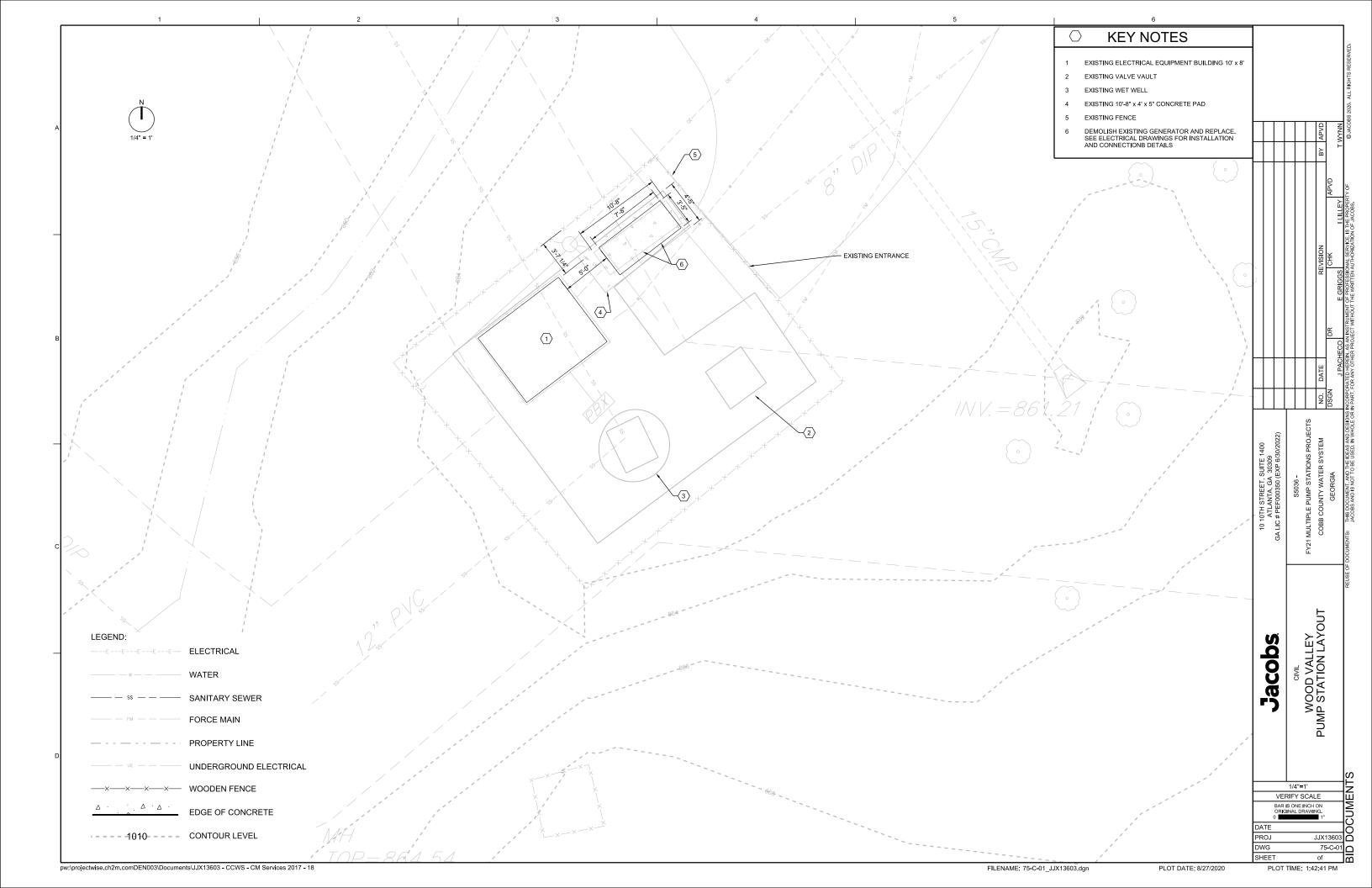
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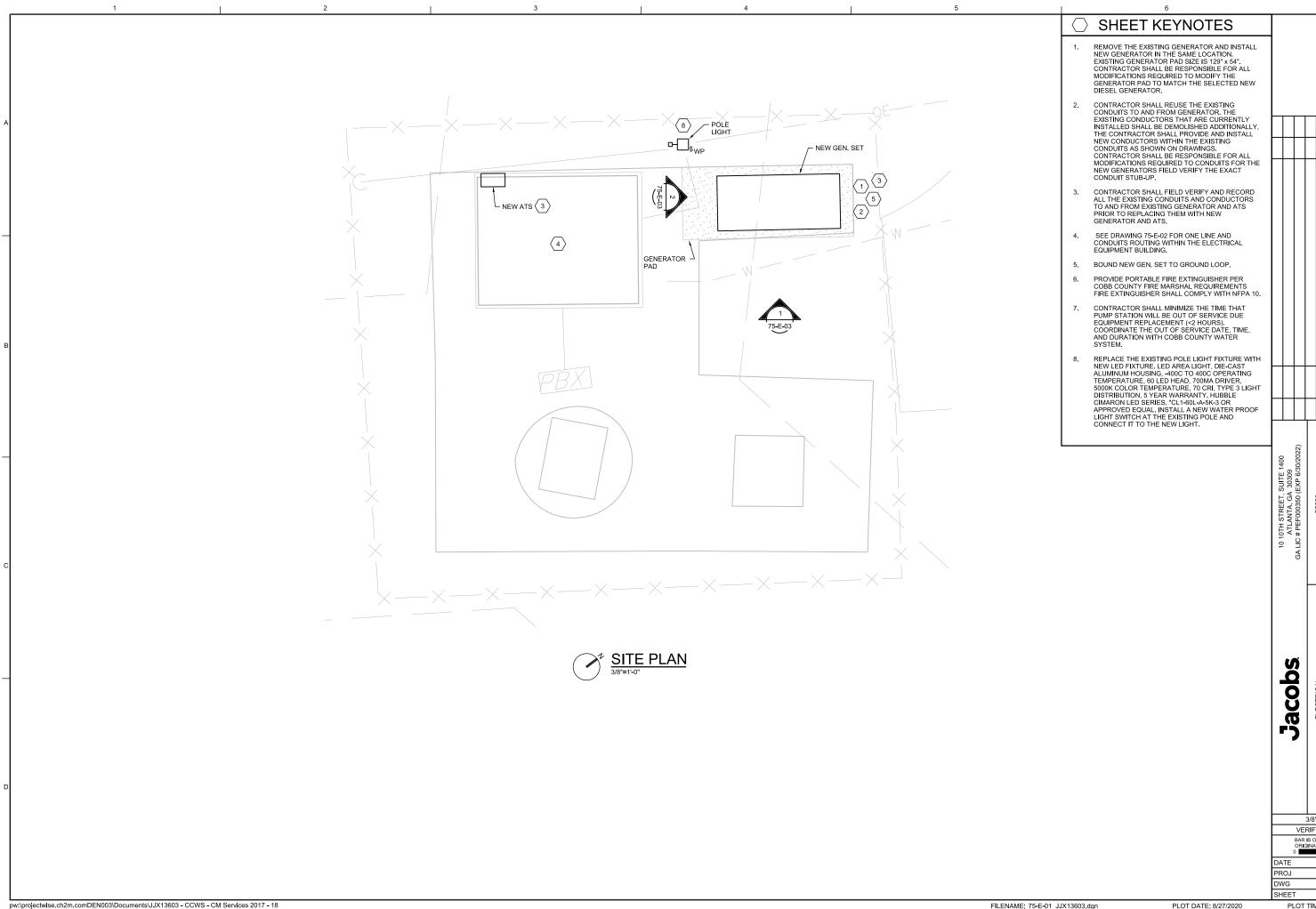
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WOOD VALLEY PUMP STATION ELECTRICAL SITE PLAN 3/8"=1'-0" VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 75-E-01 of of PLOT DATE: 8/27/2020 PLOT TIME: 1:43:14 PM

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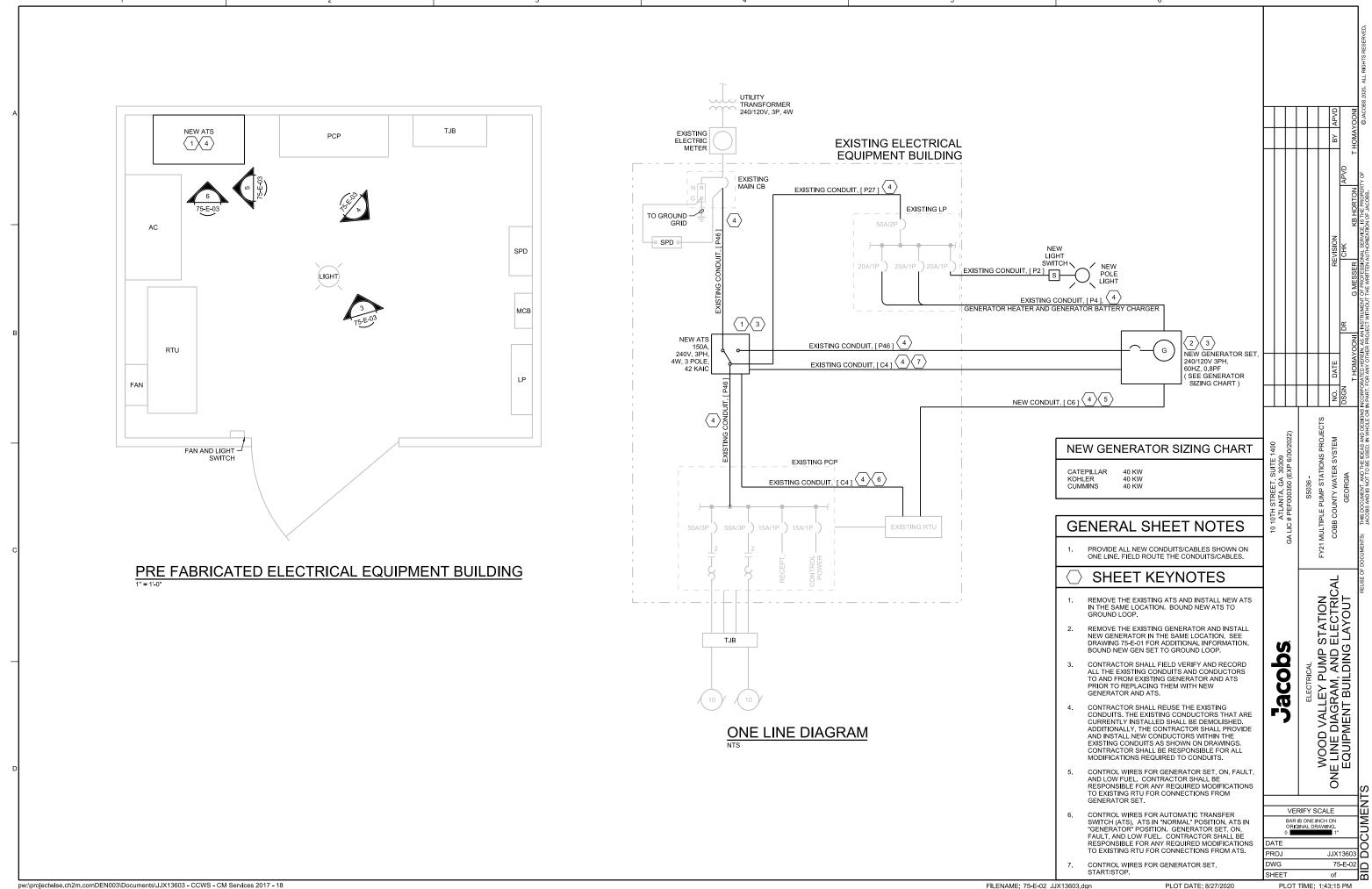


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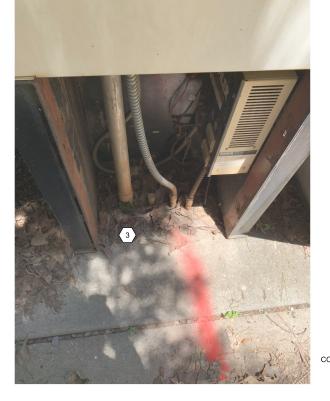




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6 PHOTO DETAIL

> SHEET KEYNOTES

- EXISTING GENERATOR TO BE REMOVED AND REPLACED WITH NEW GENERATOR. SEE DRAWING 75-E-02 FOR ONE LINE AND GENERATOR SIZING
- CHART.

 EXISTING GENERATOR PAD SIZE IS 129" X 54".
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL
 MODIFICATIONS REQUIRED TO MODIFY THE
 GENERATOR PAD TO MATCH THE SELECTED NEW
 DIESEL GENERATOR.
- DIESEL GENERATOR.

 CONTRACTOR SHALL REUSE THE EXISTING CONDUITS TO AND FROM GENERATOR. THE EXISTING CONDUCTORS THAT ARE CURRENTLY INSTALLED SHALL BE DEMOLISHED. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUCTORS WITHIN THE EXISTING CONDUITS AS SHOWN ON DRAWINGS.

 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS REQUIRED TO CONDUITS FOR THE NEW GENERATORS. FIELD VERIFY THE EXACT CONDUIT STUB-UP.
- EXISTING AUTOMATIC TRANSFER SWITCH (ATS) TO BE REMOVED AND REPLACED WITH NEW ATS AT THE SAME LOCATION. SEE DRAWING 75-E-02 FOR ONE LINE.
 - ONE LINE.

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WOOD VALLEY PUMP STATION PHOTO DETAILS

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