

EMERALD COAST UTILITIES AUTHORITY

BOARD MEMBERS

DISTRICT 1- Ms. VICKI CAMPBELL

DISTRICT 2- Ms. LOIS BENSON
BOARD CHAIRMAN

DISTRICT 3- Mr. LARRY WILLIAMS



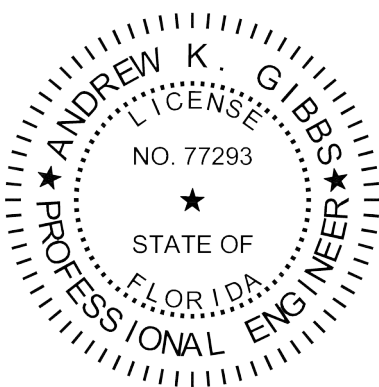
Mr. J. BRUCE WOODY, P.E.
EXECUTIVE DIRECTOR

BULK FUEL TANKS JUNE 2022

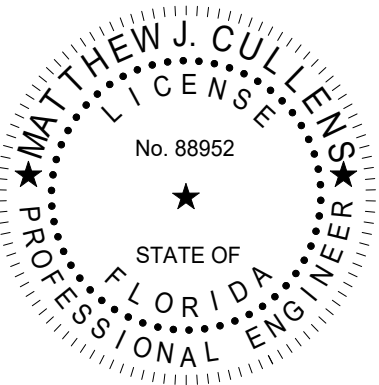
E.C.U.A. PROJECT NO. CA0014

Mr. DALE PERKINS -DISTRICT 4

Mr. KEVIN STEPHENS -DISTRICT 5
BOARD VICE CHAIRMAN



ANDREW K. GIBBS, P.E.
FL PE: 77293
THE ABOVE NAMED PROFESSIONAL
ENGINEER SHALL BE RESPONSIBLE ONLY
FOR THE "E" SHEETS IN ACCORDANCE WITH
RULE 61G15-23.004, F.A.C



MATTHEW CULLENS, P.E.
FL PE: 88952
THE ABOVE NAMED PROFESSIONAL
ENGINEER SHALL BE RESPONSIBLE ONLY
FOR THE "S" SHEETS IN ACCORDANCE WITH
RULE 61G15-23.004, F.A.C

IN ACCORDANCE WITH RULE 61G15-23.004,
F.A.C. PRINTED COPIES OF THIS
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BID NO. ITB 2022-18



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Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783

DRAWING LIST	
SHEET NO.	SHEET TITLE
E-000	COVER PAGE
E-001	ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES 1 OF 2
E-002	ELECTRICAL LEGEND, ABBREVIATIONS, AND NOTES 2 OF 2
E-020	GODWIN LANE ELECTRICAL PLAN
E-021	GODWIN LANE ONE-LINE DIAGRAMS
E-022	GODWIN LANE SCHEDULES
E-030	CWRF ELECTRICAL PLAN
E-031	CWRF SCHEDULES
S.1	SITE & SLAB PLANS
S.2	STRUCTURAL DETAILS

ALL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH
THE PROJECT MANUAL, THIS DOCUMENT & THE CURRENT
EDITION OF E.C.U.A.'S ENGINEERING MANUAL.

A. ECUA Engineering Manual Incorporated by Reference

The ECUA Engineering Manual, dated December 18, 2014, along with Update #1 dated September 1, 2016 (hereinafter "Manual"), located at www.ecua.fl.gov, is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and the Plans, Contractor shall consult Engineer of Record on the appropriate resolution.

B. Additional Documents (to be completed by the Engineer of Record)

Does this Project have additional technical specifications or construction details that supersede the Manual listed above? ☐ Yes ☐ No. If yes, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location	
	Specifi- cation	Detail	Plans	Project Manual*
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Project Manuals used only with ECUA CIP Projects

C. Engineer of Record Responsibilities

The Engineers of Record (EORs) that have affixed their seals and signatures on these plans warrant their portion of the plans have been designed in accordance with the Manual (unless otherwise directed by the ECUA Project Engineer). The EORs shall be knowledgeable of the Manual's contents and shall assume responsibility for its use on the Project.

B1	2022/06/03	HDE	ISSUED FOR BID	RL	AKG
P1	2022/03/10	HDE	REVIEW SUBMITTAL	RL	AKG
Rev	Date	Drawn	Description	Ch'k'd	App'd

M MOTT MACDONALD	Mott MacDonald Florida, LLC. 220 West Garden Street Suite 700 Pensacola, FL 32502 United States of America T +1 (850) 484 6011 www.mottmac.com/americas				
	Architects	Engineers	Surveyors	AA - C0000035 EB - 0000155 LB - 0006783	

Client	EMERALD COAST UTILITIES AUTHORITY ESCAMBIA COUNTY, FLORIDA	
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Title	ECUA FUEL SYSTEM MODIFICATION
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COVER PAGE

THIS DRAWING IS PART OF A DIGITALLY SIGNED
AND SEALED SET OF DRAWINGS. IN ACCORDANCE
WITH 61G15-23.004, F.A.C. PRINTED COPIES OF
THIS DRAWING ARE NOT CONSIDERED SIGNED
AND SEALED AND ALL SIGNATURES MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

Project Number 502100402-010		B/O 1	Total	
Designed S. RILEY		Eng check A. GIBBS		
Drawn H. ERSKINE		Coordination A. GIBBS		
Dwg check A. GIBBS		Approved A. GIBBS		
Scale at ANSI D AS NOTED	Status BID	Rev B1	Security STD	
Drawing Number E-000				

Drawing Path: C:\Users\es4516\Matt MacDonald\SOU Florida Electrical and C&A Team - Documents\02 - DOE\ECUA\Fuel Tanks\Drawings\

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH HAVE JURISDICTION.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS SHOWN. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.
- UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS TO BE PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT/MATERIAL.
- THE CONTRACTOR SHALL SUBMIT DETAILED EQUIPMENT LAYOUT PLANS, SECTIONS, AND MOUNTING DETAILS SHOWING PROPOSED LOCATION OF ALL EQUIPMENT AND REQUIRED WORKING/SERVICE CLEARANCES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VISIT THE PROJECT SITE AND EXAMINE AND CONFIRM EXISTING CONDITIONS. ALL CHANGES SHALL BE PRESENTED DURING SHOP DRAWING SUBMITTALS FOR ENGINEER'S APPROVAL.
- CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC, IF SIZE IS NOT SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH CONTRACT DRAWINGS. TAGS FOR CONDUITS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
- UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.
- UPDATE EXISTING PANELBOARD DIRECTORIES TO REFLECT THE CIRCUITING IN EXISTING PANELBOARDS AFFECTED BY THIS ALTERATION.
- CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF ANY EXISTING CIRCUITS AFFECTED BY THIS ALTERATION. RECONNECT ALL ALTERED OR REROUTED WORK TO ITS FULLY FUNCTIONAL STATE PRIOR TO ALTERATION.
- PROVIDE ALL NECESSARY TEMPORARY WIRING TO MAINTAIN EXISTING INSTALLATIONS WHICH MUST REMAIN IN SERVICE DURING CONSTRUCTION PERIOD.
- ALL BRANCH CIRCUITS OVER 75 FEET IN LENGTH SHALL BE RUN WITH #10 CONDUCTOR, UNLESS OTHERWISE NOTED.
- SCHEDULE ALL DISCONNECTION AND INTERRUPTIONS OF ELECTRICAL SERVICE, COMMUNICATIONS AND SUPERVISORY SYSTEMS WITH THE OWNER AND ENGINEER.
- CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES, FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSIES, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.
- CONTRACTORS SHALL COORDINATE ALL WORK ACTIVITIES WITH OPERATIONS, MAINTENANCE, AND OTHER CONTRACTORS.
- UNLESS SPECIFICALLY NOTED, ALL ELECTRICAL EQUIPMENT (GENERATORS, AUTOMATIC TRANSFER SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, WIRE, PANELBOARDS, SWITCHBOARDS, DISCONNECTS, LIGHTING, INSTRUMENTS, CONTROL PANELS, MOTOR, ETC) THAT MAY BE SHOWN AS TO BE REMOVED ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNER.

ABBREVIATIONS

A OR AMP AMPERES
ACT ABOVE COUNTER TOP (6")
AF AMP FRAME
AFF ABOVE FINISHED FLOOR
AHU AIR HANDLING UNIT
AIC AMPERE INTERRUPTING CAPACITY
AM AMMETER
APPROX APPROXIMATELY
AS AMMETER SELECTION SWITCH
ASYM ASYMMETRICAL
AT AMP TRIP
ATS AUTOMATIC TRANSFER SWITCH
AUX AUXILIARY
AWG AMERICAN WIRE GAUGE
BLDG BUILDING
C CONDUIT
C, CDT CONDUIT
C, /C CONDUCTOR
CB CIRCUIT BREAKER
CKT CIRCUIT
CLF CURRENT LIMITING FUSE
CO COMPANY
COL COLUMN
CNTL CONTROL
CSLD CONTINUOUS STATISTICAL
CT LEAK DETECTION
Cu CURRENT TRANSFORMER
D CABLE
D DEPTH
DIA DIAMETER
DS OR DISC DISCONNECT SWITCH
DWG(S) DRAWING(S)
ELEC ELECTRIC, ELECTRICAL
EM EMERGENCY
EMT ELECTRICAL METALLIC TUBING
ESTOP EMERGENCY STOP
EX, EXIST. EXISTING
EXP EXPLOSION PROOF
EF EXHAUST FAN
EG EQUIPMENT GROUND
EGC EQUIPMENT GROUND CONDUCTOR
ETC ET CETERA
EXIST EXISTING
F FUSE
FCR FLOAT CONTROL RELAY
FL, FLR FLOOR
FT FEET
G OR GND GROUND
GA GAUGE
GALV GALVANIZED
GEC GROUNDING ELECTRODE CONDUCTOR
GEN GENERATOR
GF GROUND FAULT
GFCI GROUND FAULT CIRCUIT INTERRUPT
GFI GROUND FAULT INTERRUPTING
H-O-A HAND-OFF-AUTOMATIC
HP HORSEPOWER
HVAC HEATING, VENTILATION & AIR
IG ISOLATED GROUND
ISBR INTRINSICALLY SAFE BARRIER RELAY
IMC INTERMEDIATE METAL CONDUIT
IN INCH
IR INFRARED
ISCA INSTANTANEOUS SHORT CIRCUIT AVAILABLE
JB OR J JUNCTION BOX
kVA KILOVOLT - AMPS
kW KILOWATTS
kWH KILOWATT-HOUR
L LENGTH
LA LIGHTNING ARRESTOR
LFMC LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LTG LIGHTING
MAX MAXIMUM
MCB OR MB MAIN CIRCUIT BREAKER
MCC MOTOR CONTROL CENTER
MECH MECHANICAL
MER MECHANICAL EQUIPMENT ROOM
MFR MANUFACTURER
MH OR MTG MOUNTING HEIGHT
MIN MINIMUM
MLO MAIN LUGS ONLY
MTD MOUNTED
N NEUTRAL
NC NORMALLY CLOSED
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MFRS ASSOCIATION
NF NON-FUSIBLE
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
No. NUMBER
NO NORMALLY OPEN
NTS NOT TO SCALE
O.C. ON CENTER
OCPD OVERCURRENT PROTECTIVE DEVICE
O/F OVERFILL
OHE OVERHEAD ELECTRICAL
OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P POLE
PERM PERMANENT
PFC POWER FACTOR CAPACITOR
PH, Ø PHASE
PLC PROGRAMMABLE LOGIC CONTROLLER
PNL PANEL
PR PAIR
PVC POLYVINYLCHLORIDE CONDUIT
PWR POWER

ABBREVIATIONS

R&R REMOVE AND RELOCATE
R RELOCATE
RE RELOCATED
RECEPT RECEPTACLE
REF REFERENCE
RGS RIGID GALVANIZED STEEL
RMS ROOT MEAN SQUARE
SE SERVICE ENTRANCE
SF SEAL FITTING
SH SHIELDED
SS STAINLESS STEEL
SPD SURGE PROTECTION DEVICE
SW SWITCH
SWBD SWITCHBOARD
SYM SYMMETRICAL
TEL TELEPHONE
TEL TWIS TWISTED INDIVIDUAL SHIELD
TWOS TWISTED OUTER SHIELD
TYP TYPICAL
UG UNDERGROUND
UL UNDERWRITER'S LABORATORIES
UV ULTRAVIOLET
V VOLTS
VA VOLT AMPS
VAC VOLTS ALTERNATING CURRENT
VDC VOLTS DIRECT CURRENT
VFD VARIABLE FREQUENCY DRIVE
VM VOLTMETER
VMS VOLTMETER SELECTOR SWITCH
W WATT
W/ WITH
W/O WITHOUT
WM WATTMETER
WP WEATHER PROOF
XFMR TRANSFORMER

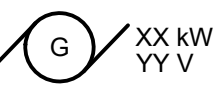
ONE-LINE DIAGRAM



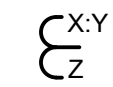
CONNECTION TO ELECTRICAL UTILITY. VOLTAGE, PHASES AS INDICATED



UTILITY METER



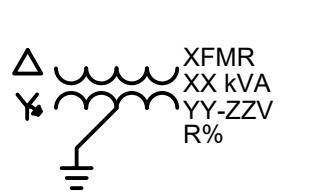
GENERATOR
- 'XX' DESIGNATES POWER RATING
- 'YY' DESIGNATES VOLTAGE



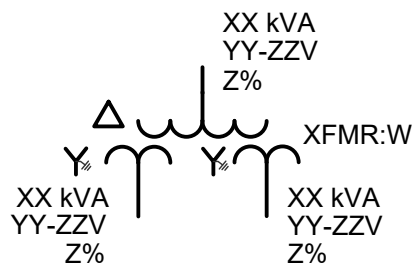
CURRENT TRANSFORMER (CT).
'X:'Y' INDICATES RATIO
'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)



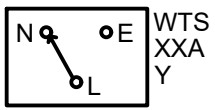
POTENTIAL TRANSFORMER (PT).
'X:'Y' INDICATES RATIO
'Z' INDICATES QUANTITY (1 PER PHASE UNLESS OTHERWISE INDICATED)



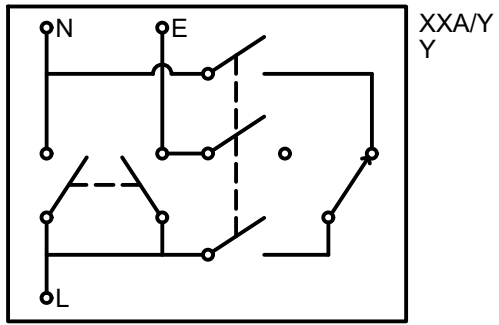
TWO WINDING TRANSFORMER, PHASES AS DETERMINED BY OCPD
- 'Z' INDICATES % IMPEDANCE ANSI STANDARD IF NOT SPECIFIED
- 'WW' INDICATES STRUCTURE DESIGNATION
- 'XX' INDICATES POWER RATING
- 'YY' INDICATES PRIMARY VOLTAGE
- 'QQ' INDICATES SECONDARY VOLTAGE WINDINGS AS INDICATED
- 'Δ' INDICATES DELTA CONNECTION
- 'Y' INDICATES WYE CONNECTION WITH GROUNDED NEUTRAL



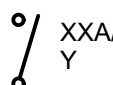
THREE WINDING TRANSFORMER
- 'W' INDICATES STRUCTURE DESIGNATION
- 'XX' INDICATES POWER RATING (BY WINDING)
- 'YY' INDICATES VOLTAGE RATING (BY WINDING)
- 'Z' INDICATES IMPEDANCE (BY WINDING)
- 'Δ' INDICATES DELTA CONNECTION
- 'Y' INDICATES WYE CONNECTION WITH GROUNDED NEUTRAL



TRANSFER SWITCH
- 'W' INDICATES
A: AUTOMATIC
M: MANUAL
- 'XX' INDICATES RATING IN AMPS
- 'Y' INDICATES NUMBER OF POLES



BYPASS ISOLATION TRANSFER SWITCH
- 'XX' INDICATES AMPERE RATING
- 'Y' INDICATES NUMBER OF POLES



SWITCH
- 'XX' INDICATES AMPERE RATING
- 'Y' INDICATES NUMBER OF POLES

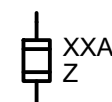


MEDIUM & HIGH VOLTAGE CIRCUIT BREAKER
- 'XX' INDICATES TRIP RATING IN AMPS
- 'YY' INDICATES FRAME RATING



LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER.
- 'XX' INDICATES TRIP RATING IN AMPS (IF TRIP INTEGRAL)
- 'YY' INDICATES FRAME RATING, ID SPECIFIED
- 'W' INDICATES NUMBER OF POLES (3 UNLESS OTHERWISE NOTED)
- 'Z' DESIGNATES TYPE:
BLANK: THERMAL MAGNETIC
LS: ELECTRONIC TRIP
MCP: MOTOR CIRCUIT PROTECTOR
GFI: GROUND FAULT INTERRUPTING

ONE-LINE DIAGRAM



FUSE
- 'XX' INDICATES TRIP RATING IN AMPS
- 'Z' INDICATES CLASSIFICATION (IF SPECIFIED)

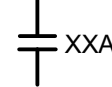


ANGLED BRACKETS INDICATE DRAWOUT DEVICE

PROTECTIVE RELAY, METERING, OR INTERLOCKING DEVICE.
'XX' DESIGNATIONS:
A: AMMETER
V: VOLTMETER
PF: POWER FACTOR
K: KIRK KEY INTERLOCK
I: ELECTRICAL INTERLOCK
25: SYNCHRONISM CHECK
27: UNDER VOLTAGE
46: CURRENT UNBALANCE
47: PHASE-SEQUENCE VOLTAGE
50: INSTANTANEOUS OVERCURRENT
51: TIME OVERCURRENT
52: AC CIRCUIT BREAKER
55: POWER FACTOR
59: OVER VOLTAGE
64: GROUND PROTECTIVE RELAY
81: FREQUENCY
86: LOCKING OUT RELAY
* SPECIFIC MINIMUM FUNCTIONS TO BE LISTED BY ANSI/IEEE DEVICE NUMBERS



FULL VOLTAGE NON REVERSING CONTACTOR
'X' DESIGNATES NEMA SIZE OR:
BC: BYPASS CONTACTOR
OC: OUTPUT ISOLATION CONTACTOR
IC: INPUT ISOLATION CONTACTOR



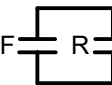
LIGHTING CONTACTOR
- 'XX' DESIGNATES AMPERE RATING
- 'Y' DESIGNATES NUMBER OF POLES



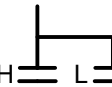
LIGHTING CONTACTOR
- 'XX' DESIGNATES AMPERE RATING
- 'Y' DESIGNATES NUMBER OF POLES



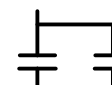
MOTOR OVERLOAD.
RATED FOR DEVICE PROTECTING.
CLASS 20 UNLESS OTHERWISE INDICATED.
- 'X' DESIGNATES TYPE:
T-THERMAL
E-ELECTRONIC.



FULL VOLTAGE REVERSING CONTACTOR
- 'X' DESIGNATES NEMA SIZE
- 'F' INDICATES FORWARD CONTACTOR.
- 'R' INDICATES REVERSING CONTACTOR.



TWO SPEED STARTER
- 'X' DESIGNATES NEMA SIZE.
- 'H' INDICATES HIGH SPEED CONTACTOR.
- 'L' INDICATES LOW SPEED CONTACTOR.



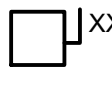
REDUCED VOLTAGE AUTOTRANSFORMER
- 'X' DESIGNATES NEMA SIZE.
- 'Y' INDICATES TAP PERCENTAGE.



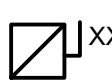
VARIABLE FREQUENCY DRIVE
- 'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, VFD TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).



REDUCED VOLTAGE SOFT START.
- 'XX' INDICATES MINIMUM AMP RATING (IF NOT SPECIFIED, RVSS TO MATCH HORSEPOWER RATING OF MOTOR SUPPLIED).



NON-FUSED DISCONNECT SWITCH
- 'XX' DESIGNATES AMPERE RATING OF DISCONNECT.
- 'Y' DESIGNATES NUMBER OF POLES



FUSED DISCONNECT SWITCH
- 'XX' DESIGNATES AMPERE RATING OF FUSE.
DISCONNECT AMPERE RATING TO BE EQUAL TO FUSE RATING OR THE NEXT LARGEST TRADE SIZE.
- 'Y' DESIGNATES NUMBER OF POLES

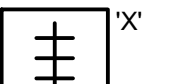
ONE-LINE DIAGRAM



INDUCTION MOTOR
- 'WW' INDICATES EQUIPMENT DESIGNATION.
- 'XX' INDICATES HORSEPOWER RATING.



SYNCHRONOUS MOTOR
- 'WW' INDICATES EQUIPMENT DESIGNATION.
- 'XX' INDICATES HORSEPOWER RATING.



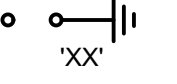
PANELBOARD
- 'X' INDICATES STRUCTURE DESIGNATION.



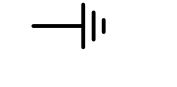
UNINTERRUPTIBLE POWER SUPPLY.



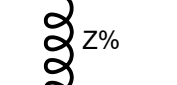
SURGE SUPPRESSION DEVICE.



LIGHTNING ARRESTORS
- 'XX' INDICATES
IC: INTERMEDIATE CLASS
DC: DISTRIBUTION CLASS
SC: STATION CLASS



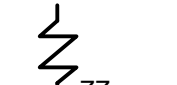
EARTH GROUND



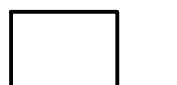
LINE OR LOAD REACTOR.
'Z' DESIGNATES % IMPEDANCE.



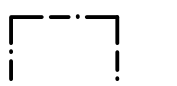
CAPACITOR
- 'XX' INDICATES KVAR RATING



RESISTOR
- 'ZZ' INDICATES IMPEDANCE IN OHMS



MISCELLANEOUS ELECTRICAL EQUIPMENT, SUCH AS PANEL, ETC. EQUIPMENT TYPE AND RATINGS TO BE INDICATED.



ELECTRICAL EQUIPMENT BOUNDARY.
INDICATES MULTIPLE DEVICES ENCLOSED WITHIN BORDER ARE LOCATED WITHIN THE SAME ENCLOSURE, OR MOUNTED TO SAME PANEL RACK.



PORTABLE POWER CONNECTION
- 'XX' INDICATES AMPERE RATING
- 'Y' DESIGNATES TYPE:
3: 3 WIRE + GROUND
4: 4 WIRE + GROUND

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B1	2022/06/03	HDE	ISSUED FOR BID	RL	AKG
P1	2022/03/10	HDE	REVIEW SUBMITTAL	RL	AKG
Rev	Date	Drawn	Description	Ch'k'd	App'd

MOTT MACDONALD		Mott MacDonald Florida, LLC. 220 West Garden Street Suite 700 Pensacola, FL 32502 United States of America T +1 (850) 484 6011 www.mottmac.com/americas			
Architects Engineers Surveyors AA - C0000035 EB - 00001155 LB - 0006783					

Client	EMERALD COAST UTILITIES AUTHORITY ESCAMBIA COUNTY, FLORIDA				
Title	ECUA FUEL SYSTEM MODIFICATION				

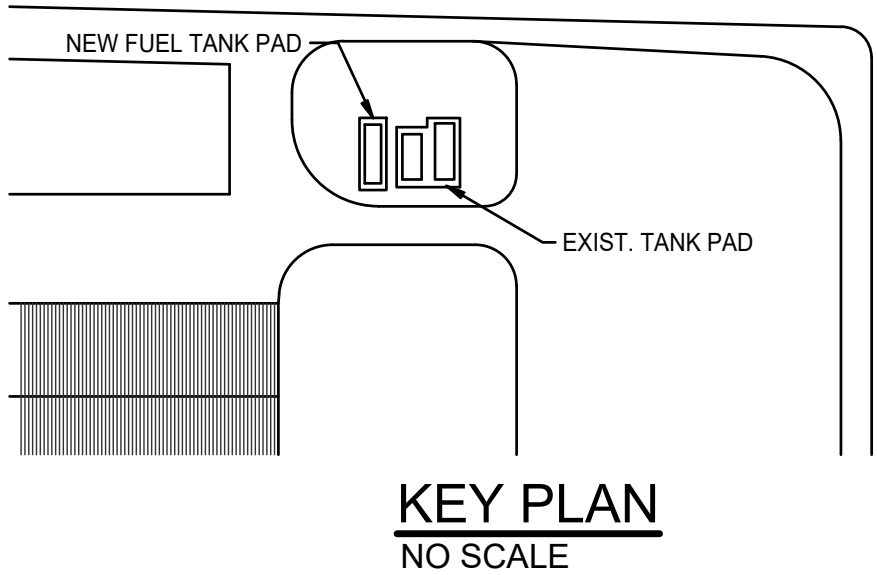
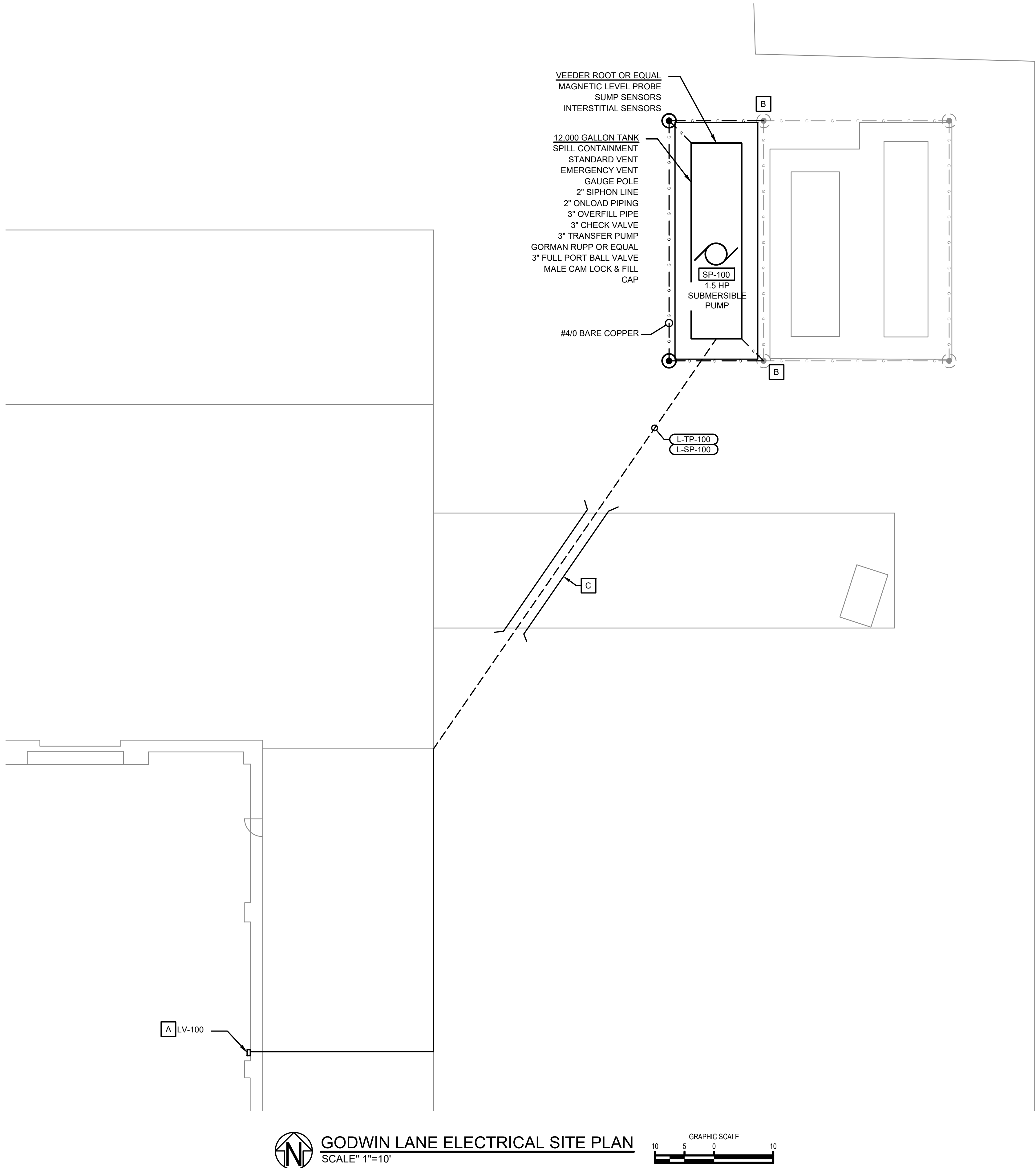
ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES

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Project Number		B/O		Total	
502100402-010					
Designed	S. RILEY		Eng check	A. GIBBS	
Drawn	H. ERSKINE		Coordination	A. GIBBS	
Dwg check	A. GIBBS		Approved	A. GIBBS	
Scale at ANSI D	Status	Rev	Security		
AS NOTED	BID	B1	STD		

Drawing Number
E-001

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GENERAL NOTES

- CONTRACTOR TO PROVIDE MATERIALS AND LABOR TO INSTALL THE FUEL TANK, WITH INSTRUMENTATION, CONTROLS, POWER, LOW VOLTAGE, CONTROL CONDUITS AND WIRE FOR A COMPLETE AND OPERATIONAL SYSTEM MEETING THE REQUIREMENTS AND STANDARDS APPLICABLE IN ESCAMBIA COUNTY, FLORIDA.
- COORDINATE REMOTE FILL LOCATION WITH OWNER FOR EXACT REMOTE FILL LOCATION.
- LOCATION OF 3" TRANSFER PUMP TO BE COORDINATED WITH OWNER.

KEY NOTES

- A. EXISTING LOW VOLTAGE PANEL TO BE REPLACED WITH LV-100.
- B. APPROXIMATE LOCATION OF EXISTING GROUND RODS TO TERMINATE PROPOSED GROUNDING GRID.
- C. CONCRETE ENCASE UNDER EXISTING PAVEMENT. CUT AND PATCH TO MATCH EXISTING PAVEMENT.

B1	2022/06/03	HDE	ISSUED FOR BID	RL	AKG
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EMERALD COAST
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Title

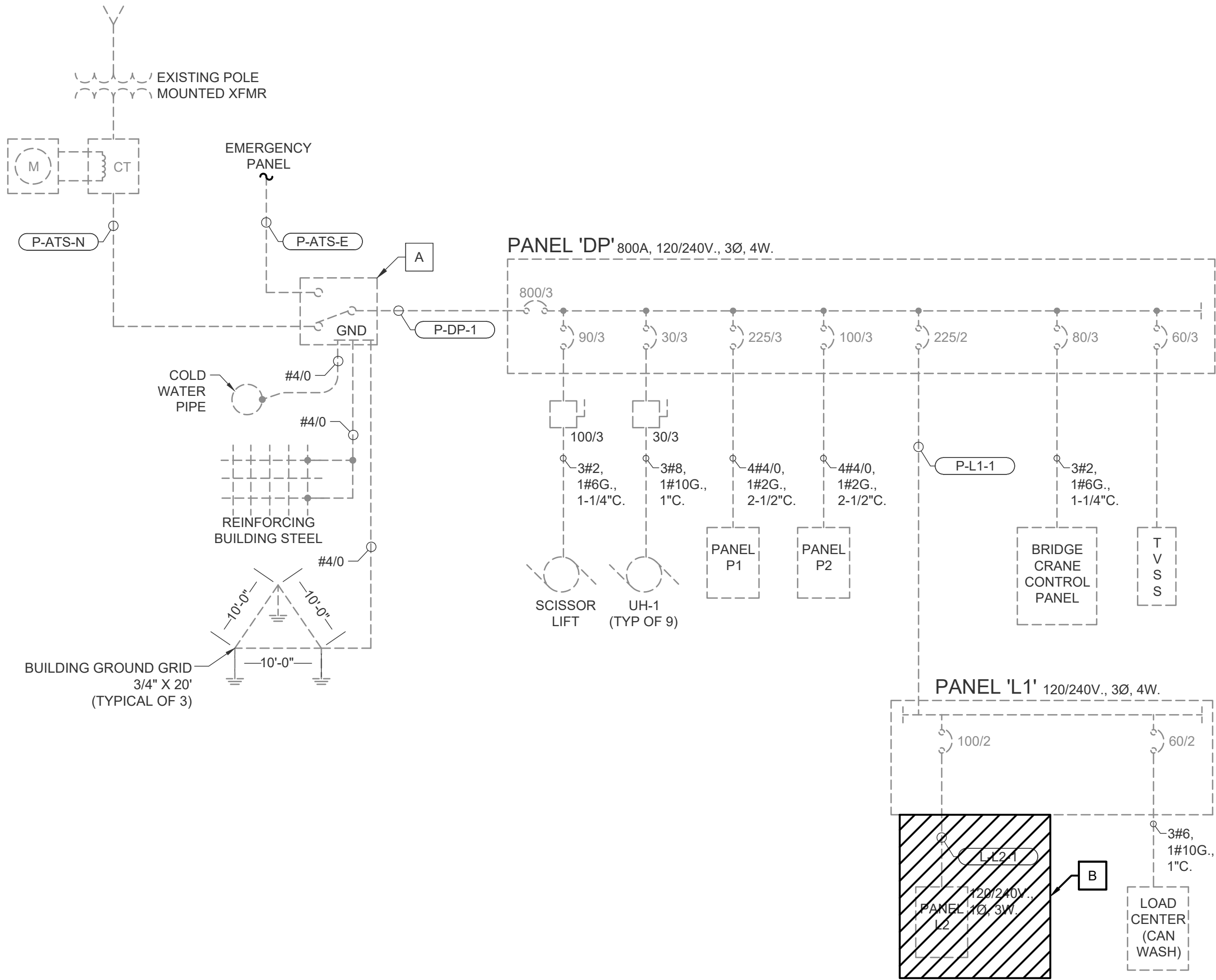
ECUA FUEL SYSTEM MODIFICATION

GODWIN LANE ELECTRICAL PLAN

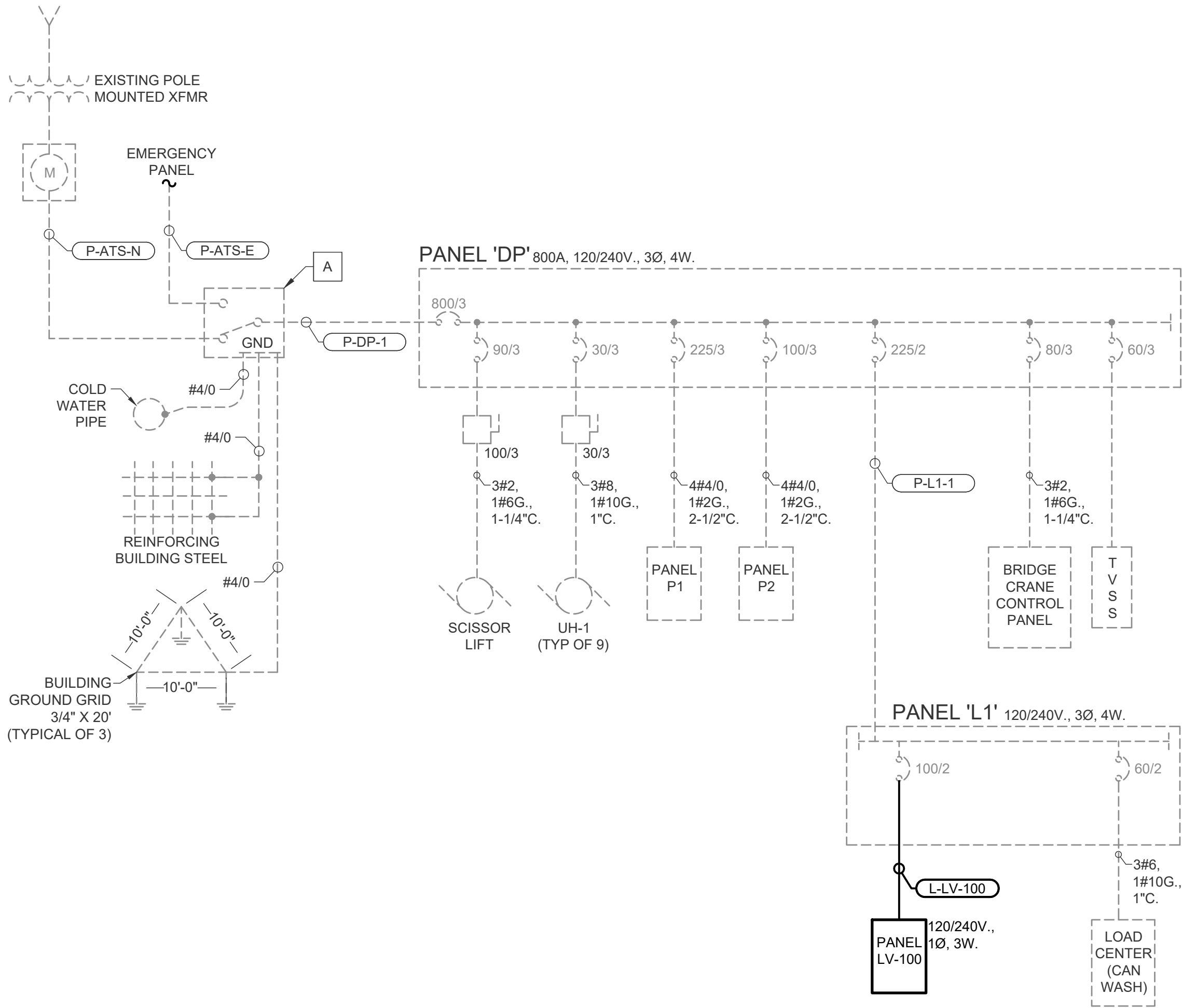
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Project Number 502100402-010		B/O		Total	
Designed	S. RILEY	Eng check	A. GIBBS		
Drawn	H. ERSKINE	Coordination	A. GIBBS		
Dwg check	A. GIBBS	Approved	A. GIBBS		
Scale at ANSI D AS NOTED	Status BID	Rev B1	Security STD	Drawing Number E-020	

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GODWIN LANE EXISTING ONE-LINE DIAGRAM
NOT TO SCALE



GODWIN LANE PROPOSED ONE-LINE DIAGRAM
NOT TO SCALE

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KEY NOTES

- A. 800A, 3P TRANSFER SWITCH-SERVICE ENTRANCE RATED.
- B. TO BE DEMOLISHED.

B1	2022/06/03	HDE	ISSUED FOR BID	RL	AKG
P1	2022/03/10	HDE	REVIEW SUBMITTAL	RL	AKG
Rev	Date	Drawn	Description	Ch'k'd	App'd

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EMERALD COAST UTILITIES AUTHORITY
ESCAMBIA COUNTY, FLORIDA



EMERALD COAST
UTILITIES AUTHORITY

Title

ECUA FUEL SYSTEM MODIFICATION

GODWIN LANE ELECTRICAL
ONE-LINE DIAGRAMS

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Project Number			B/O		Total	
502100402-010						
Designed	S. RILEY		Eng check	A. GIBBS		
Drawn	H. ERSKINE		Coordination	A. GIBBS		
Dwg check	A. GIBBS		Approved	A. GIBBS		
Scale at ANSI D		Status	Rev		Security	
AS NOTED		BID	B1		STD	
Drawing Number						

Drawing Path: C:\Users\as4516\OneDrive\ECUA Fuel Tanks\Drawings\

PANEL:		LV-100					LOCATION:		Godwin				
OPTIONS													
VOLTS L-L:		240	MAIN OVERCURRENT:		NONE	BUS MATERIAL:		Cu	MOUNTING:		SURFACE		
VOLTS L-N:		120	MAIN BUS RATING:		125A	NEUTRAL SIZE:		100%	ENCLOSURE TYPE:		NEMA 12		
PHASE:		1	MINIMUM A.I.C.:		22kA				GROUND:		EQUIPMENT		
WIRE:		3											
LOAD DATA													
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	L1	L2	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#
1	20A	1		TANK ALARM	192	792		600	GASOLINE DISPENSER	GFCI	1	20A	2
3	20A	1		TRAK SYSTEM	120		120						4
5	20A	1		RADIO	120	720		600	DIESEL DISPENSER	GFCI	1	20A	6
7	20A	2		GAS PUMP CONTACTOR	732		732						8
9					732	1464		732	DIESEL PUMP CONTACTOR		2	20A	10
11	20A	1		FUEL LEVEL	120		852	732					SUBMERSIBLE PUMP
13	20A	2		TRANSFER PUMP	720	1440		720			2	20A	
15							720						1440
17	20A	1		SPARE		0			SPARE		1	20A	18
19	20A	1		SPARE			0		SPARE		1	20A	20
21				SPACE		0			SPACE				22
23				SPACE			0		SPACE				24
TOTAL CONNECTED LOAD (VA) PER PHASE:						4416	3144						
CONNECTED LOAD (AMPS) PER PHASE						37	26						
TOTAL CONNECTED LOAD (VA):						7560	NEC ARTICLE 220 LOAD (VA):			4710			
AVERAGE CONNECTED LOAD (AMPS):						32	AVERAGE ARTICLE 220 LOAD (AMPS):			20			
NOTES:													
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA												
2.													

PANEL:				L2				LOCATION:		Godwin					
OPTIONS															
VOLTS L-L:		240		MAIN OVERCURRENT:		NONE		BUS MATERIAL:		Cu		MOUNTING:		SURFACE	
VOLTS L-N:		120		MAIN BUS RATING:		125A		NEUTRAL SIZE:		100%		ENCLOSURE TYPE:		NEMA 12	
PHASE:		1		MINIMUM A.I.C.:		22kA						GROUND:		EQUIPMENT	
WIRE:		3													
LOAD DATA															
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	L1	L2	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#		
1	20A	1		TANK ALARM	192	792		600	GASOLINE DISPENSER	GFCI	1	20A	2		
3	20A	1		TRAK SYSTEM	120		120						4		
5	20A			RADIO	120	720		600	DIESEL DISPENSER	GFCI	1	20A	6		
7	20A	2		GAS PUMP CONTACTOR	732		732						8		
9					732	1464		732	DIESEL PUMP CONTACTOR		2	20A	10		
11	20A	1		FUEL LEVEL	120		852	732					12		
TOTAL CONNECTED LOAD (VA) PER PHASE:						2976	1704								
CONNECTED LOAD (AMPS) PER PHASE						25	14								
TOTAL CONNECTED LOAD (VA):						4680	NEC ARTICLE 220 LOAD (VA):				4710				
AVERAGE CONNECTED LOAD (AMPS):						20	AVERAGE ARTICLE 220 LOAD (AMPS):				20				
NOTES:															
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA														
2.															

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B1	2022/06/03	HDE	ISSUED FOR BID			RL AKG
P1	2022/03/10	HDE	REVIEW SUBMITTAL			RL AKG
Rev	Date	Drawn	Description			Ch'k'd App'd


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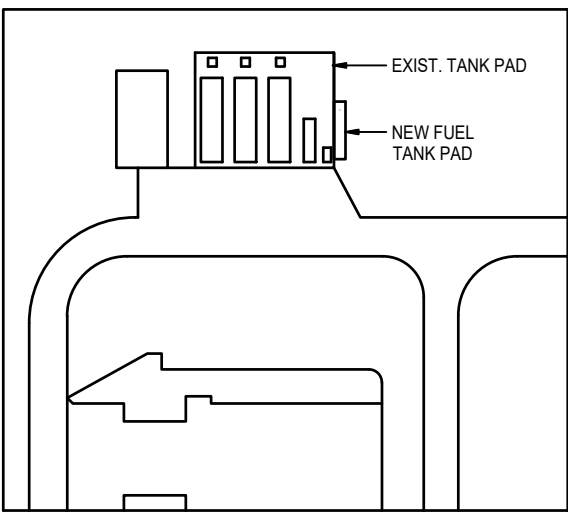
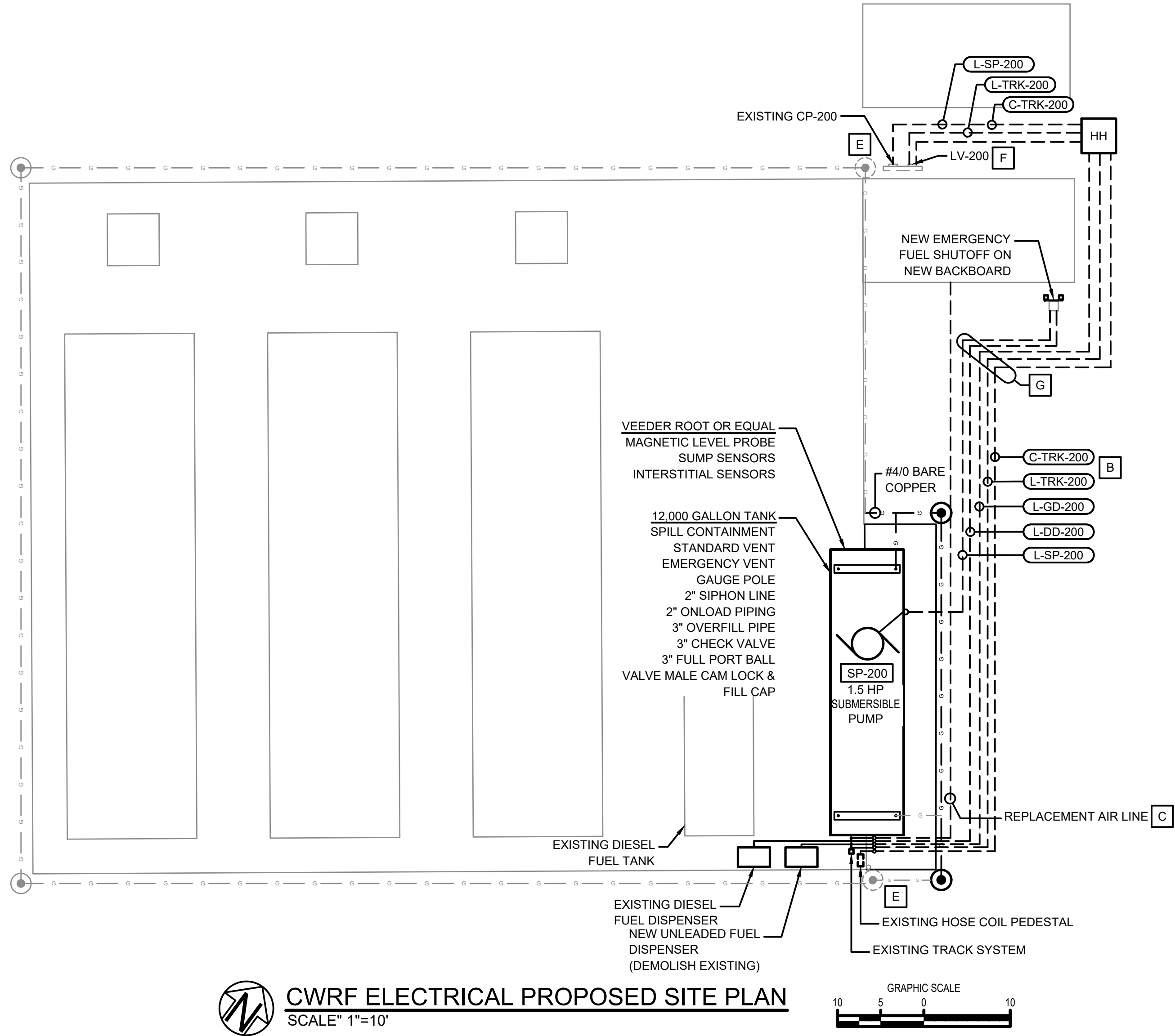
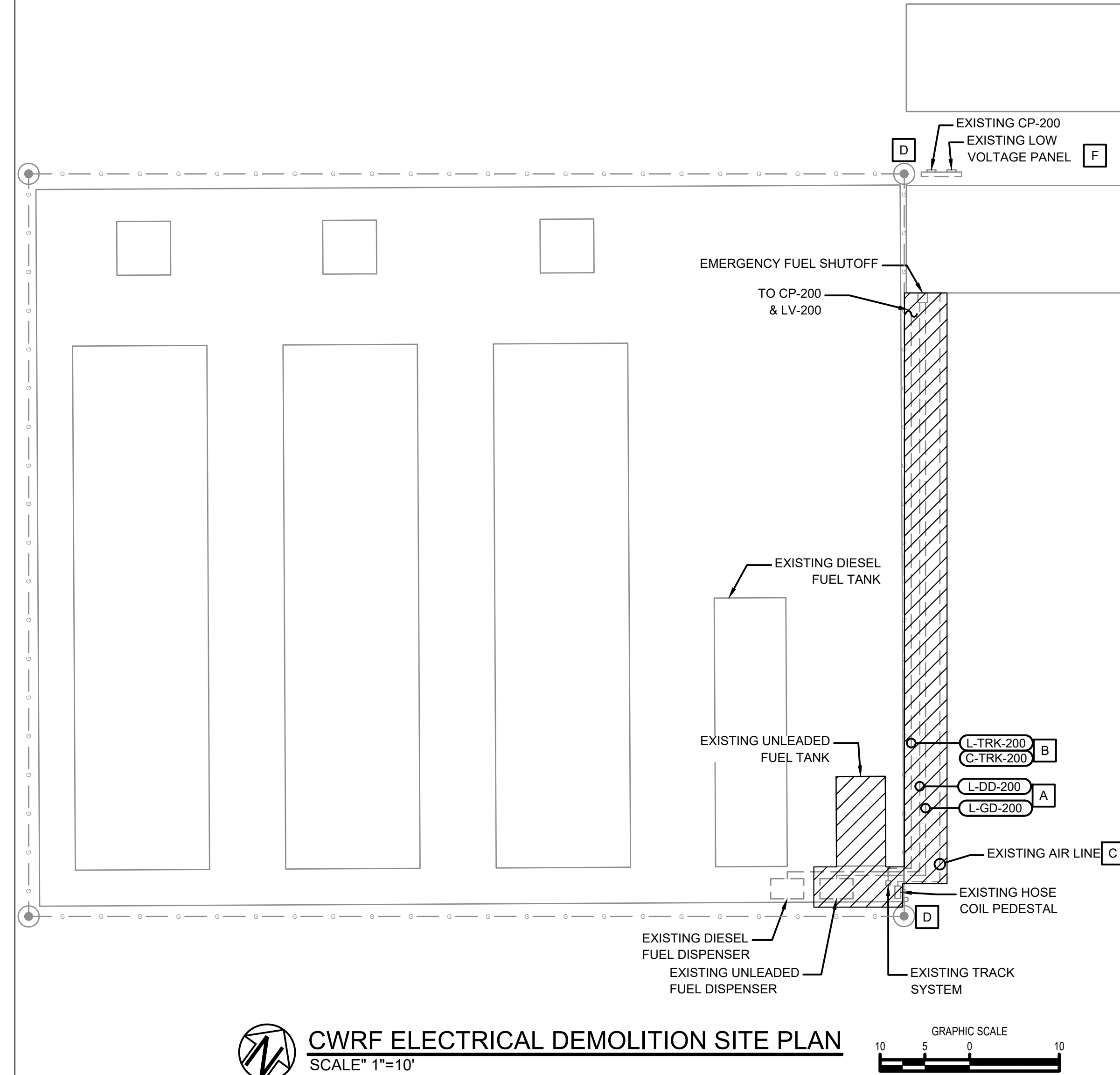
Title
ECUA FUEL SYSTEM MODIFICATION

GODWIN LANE ELECTRICAL SCHEDULES

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Project Number 502100402-010			B/O		Total	
Designed	S. RILEY		Eng check	A. GIBBS		
Drawn	H. ERSKINE		Coordination	A. GIBBS		
Dwg check	A. GIBBS		Approved	A. GIBBS		
Scale at ANSI D AS NOTED		Status BID	Rev B1		Security STD	
Drawing Number						

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- ### GENERAL NOTES
- CONTRACTOR TO PROVIDE MATERIALS AND LABOR TO INSTALL THE FUEL TANK, WITH INSTRUMENTATION, CONTROLS, POWER, LOW VOLTAGE, CONTROL CONDUITS AND WIRE FOR A COMPLETE AND OPERATIONAL SYSTEM MEETING THE REQUIREMENTS AND STANDARDS APPLICABLE IN ESCAMBIA COUNTY, FLORIDA.
 - COORDINATE REMOTE FILL LOCATION WITH OWNER FOR EXACT REMOTE FILL LOCATION.

- ### KEY NOTES
- EXISTING CONDUITS TO BE REROUTED AND RE-TERMINATED.
 - CONTRACTOR SHALL SEPARATE LOW VOLTAGE AND CONTROL CIRCUITS INTO TWO SEPARATE CONDUITS WHEN REPLACING THE TRACK SYSTEM'S CIRCUITS.
 - EXISTING AIR LINE TO BE REROUTED AND RECONNECTED.
 - DEMOLISH AND RELOCATE GROUNDING GRID ON NORTH-EAST SIDE OF CONCRETE PAD. GROUNDING RODS AT THE NORTH AND EAST CORNERS ARE TO REMAIN.
 - APPROXIMATE LOCATION OF EXISTING GROUND RODS TO TERMINATE RELOCATED GROUNDING GRID.
 - EXISTING LOW VOLTAGE PANEL TO BE REPLACED WITH LV-200.
 - CONDUIT IN THE GRAVEL DRIVE SHALL BE CONCRETE ENCASED.

Rev	Date	Drawn	Description	Ch'k'd	App'd
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Title

ECUA FUEL SYSTEM MODIFICATION

CWRP ELECTRICAL PLANS

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Project Number			B/O		Total	
502100402-010						
Designed	S. RILEY		Eng check	A. GIBBS		
Drawn	H. ERSKINE		Coordination	A. GIBBS		
Dwg check	A. GIBBS		Approved	A. GIBBS		
Scale at ANSI D		Status	Rev		Security	
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Drawing Number						

E-030

Drawing Path: C:\Users\es4516\Matt MacDonald\SOU Florida Electrical and ICA Team - Documents\02 - DOE\ECUA\Fuel Tanks\Drawings\

PANEL:				LV-200				LOCATION:				CWRP			
OPTIONS															
VOLTS L-L:		240		MAIN OVERCURRENT:		100A MCB		BUS MATERIAL:		Cu		MOUNTING:		SURFACE	
VOLTS L-N:		120		MAIN BUS RATING:		125A		NEUTRAL SIZE:		100%		ENCLOSURE TYPE:		NEMA 3R	
PHASE:		1		MINIMUM A.I.C.:								GROUND:		EQUIPMENT	
WIRE:		3													
LOAD DATA															
CKT#	BKR.	POLE	TYPE	DESCRIPTION		VA	L1	L2	VA	DESCRIPTION		TYPE	POLE	BKR.	CKT#
1	20A	1		OPERATORS SHED RECEPTACLE		180	2004		1824	AIR COMPRESSOR			2	20A	2
3	20A	1		OPERATORS SHED LIGHTS		120		1944	1824						
5	20A	1		OPERATORS SHED RECEPTACLE		180	180			UNKNOWN			2	40A	6
7	20A	1		TRAK SYSTEM		120		120							
9	20A	1	GFCI	PUMP 2 (GAS DISPENSER)		528	648		120	SHED LIGHTS			1	30A	10
11	20A	1	GFCI	PUMP 1 (DIESEL DISPENSER)		528		708	180	A/C + RECEPTACLE			1	20A	12
13	20A	2		SUMBERSIBLE GAS PUMP		720	720			SPARE			1	20A	14
15	20A						720		720		SPARE			1	20A
17		1		SPARE			0			SPACE			1		18
19		1		SPARE				0		SPACE			1		20
21		1		SPACE			0			SPACE			1		22
23		1		SPACE				0		SPACE			1		24
TOTAL CONNECTED LOAD (VA) PER PHASE:							2832	2772							
CONNECTED LOAD (AMPS) PER PHASE							24	23							
TOTAL CONNECTED LOAD (VA):							5604	NEC ARTICLE 220 LOAD (VA):				6732			
AVERAGE CONNECTED LOAD (AMPS):							23	AVERAGE ARTICLE 220 LOAD (AMPS):				28			
NOTES:															
1.		DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA													
2.															

PANEL:		CWRP FUEL (EXISTING)				LOCATION:		CWRP					
OPTIONS													
VOLTS L-L:		240		MAIN OVERCURRENT:		NONE		BUS MATERIAL:		Cu		MOUNTING: SURFACE	
VOLTS L-N:		120		MAIN BUS RATING:		125A		NEUTRAL SIZE:		100%		ENCLOSURE TYPE: NEMA 3R	
PHASE:		1		MINIMUM A.I.C.:								GROUND: EQUIPMENT	
WIRE:		3											
LOAD DATA													
CKT#	BKR.	POLE	TYPE	DESCRIPTION	VA	L1	L2	VA	DESCRIPTION	TYPE	POLE	BKR.	CKT#
1	20A	1		OPERATORS SHED RECEPTACLE	180	2004		1824	AIR COMPRESSOR		2	20A	2
3	20A	1		OPERATORS SHED LIGHTS	120		1944	1824				4	
5	20A	1		OPERATORS SHED RECEPTACLE	180	180			UNKOWN		2	40A	6
7	20A	1		TRAK SYSTEM	120		120					8	
9	20A	1		PUMP 2	528	648		120	SHED LIGHTS		1	30A	10
11	20A	1		PUMP 1	528		708	180	A/C + RECEPTACLE		1	20A	12
TOTAL CONNECTED LOAD (VA) PER PHASE:						2832	2772						
CONNECTED LOAD (AMPS) PER PHASE						24	23						
TOTAL CONNECTED LOAD (VA):						5604	NEC ARTICLE 220 LOAD (VA):			6732			
AVERAGE CONNECTED LOAD (AMPS):						23	AVERAGE ARTICLE 220 LOAD (AMPS):			28			
NOTES:													
1.	DEMAND LOAD CALCULATIONS BASED ON REMOVING REDUNDANT LOADING AND RECEPTACLES VA												
2.													

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B1	2022/06/03	HDE	ISSUED FOR BID		RL AKG
P1	2022/03/10	HDE	REVIEW SUBMITTAL		RL AKG
Rev	Date	Drawn	Description		Ch'k'd App'd

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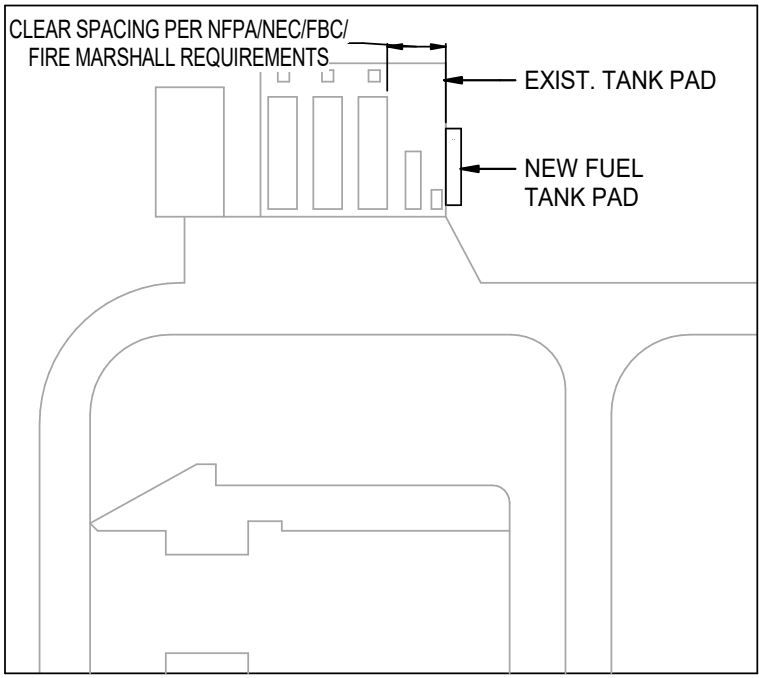
EMERALD COAST
UTILITIES AUTHORITY

Title
ECUA FUEL SYSTEM MODIFICATION

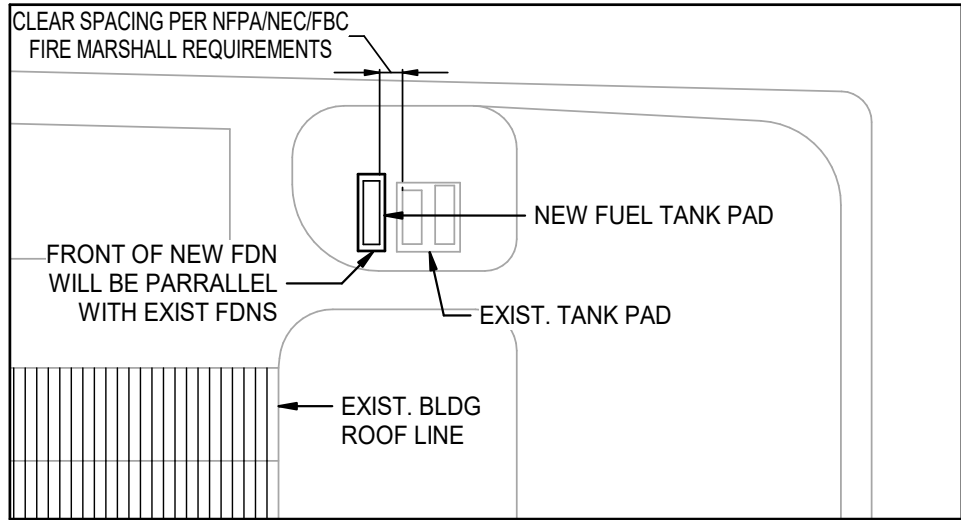
CWRP ELECTRICAL SCHEDULES

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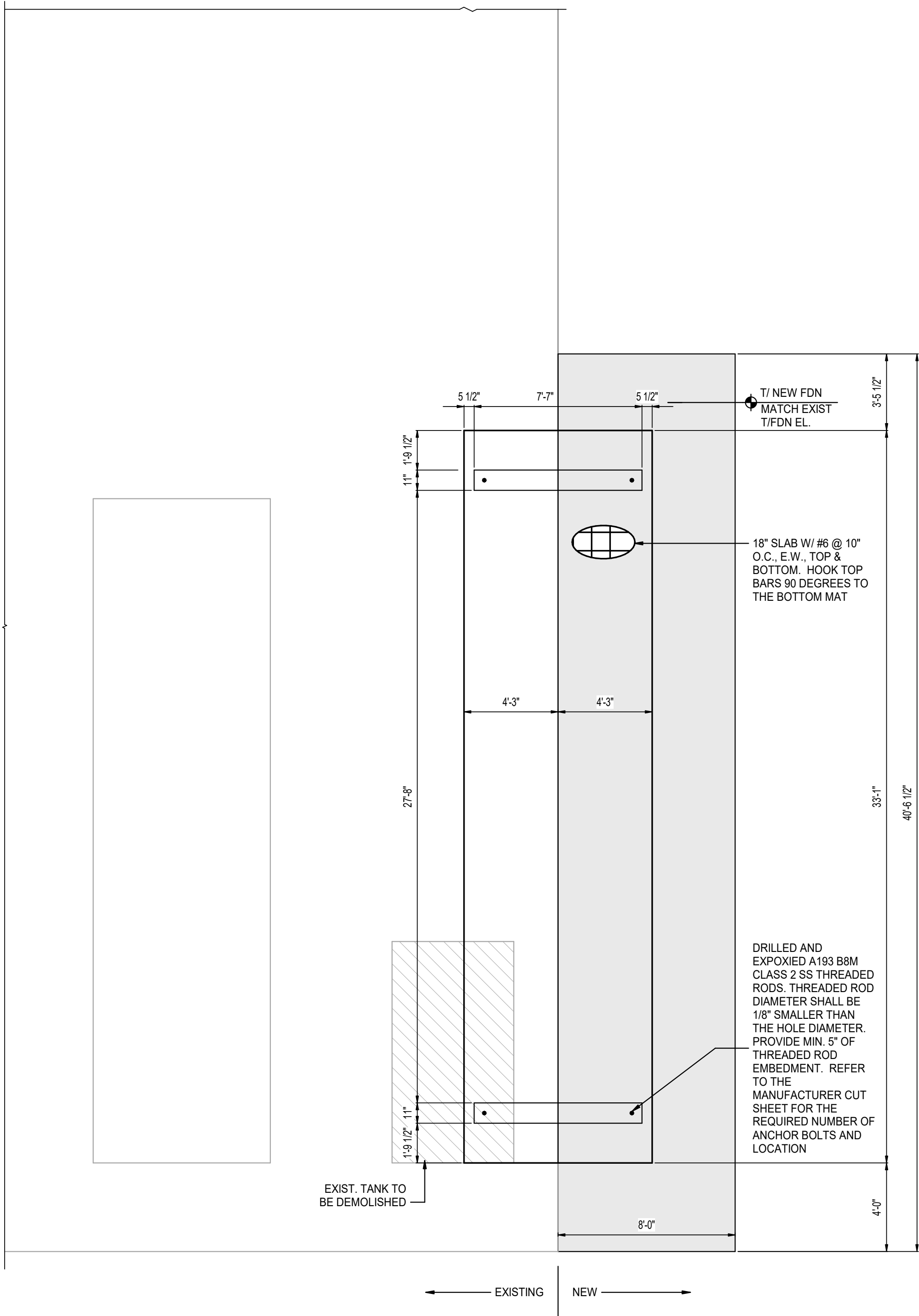
Project Number 502100402-010			B/O		Total	
Designed	S. RILEY		Eng check	A. GIBBS		
Drawn	H. ERSKINE		Coordination	A. GIBBS		
Dwg check	A. GIBBS		Approved	A. GIBBS		
Scale at ANSI D AS NOTED	Status BID		Rev B1	Security STD		
Drawing Number						



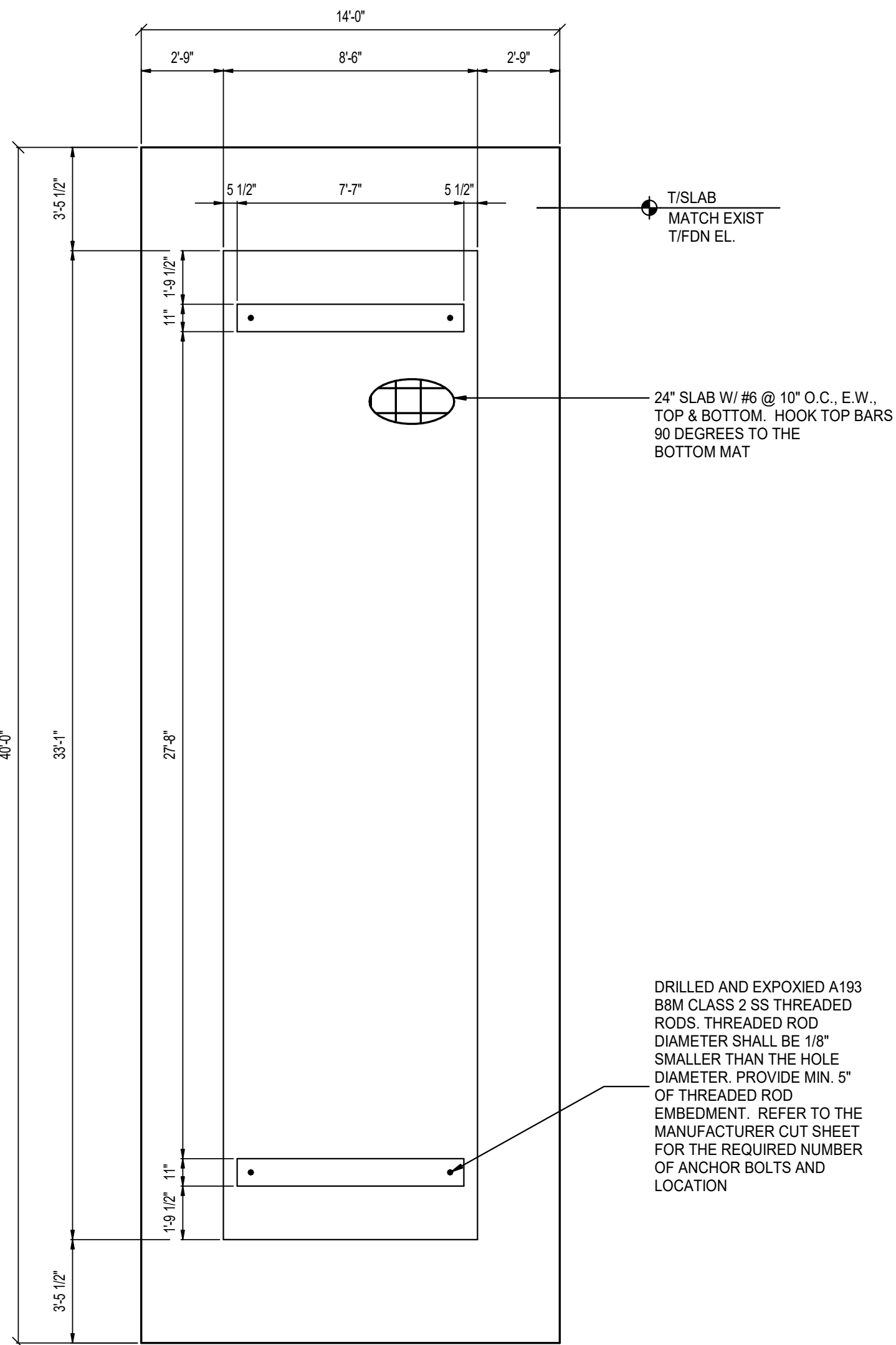
1 OVERALL SITE PLAN - CWRW
1" = 100'-0"



2 OVERALL SITE PLAN - GODWIN LANE
1" = 100'-0"



3 CWRW FUEL TANK SLAB PLAN
1/4" = 1'-0"



4 GODWIN LANE FUEL TANK SLAB PLAN
1/4" = 1'-0"



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B1	2022/06/03	MJC	ISSUED FOR BID	CEL	CEL
P1	2022/03/10	MJC	REVIEW SUBMITTAL	CEL	CEL
Rev	Date	Drawn	Description	Ch'k'd	App'd

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EMERALD COAST UTILITIES AUTHORITY
ESCAMBIA COUNTY, FLORIDA



Title
CWRW & GODWIN LN - FUEL TANK
FOUNDATION DETAILS

SITE & SLAB PLANS

ISSUED FOR BID SUBMITTAL

Project Number 502100402-019			B/O		Total
Designed	M. CULLENS		Eng check	C. LYNER	
Drawn	M. CULLENS		Coordination		
Dwg check	C. LYNER		Approved	C. LYNER	
Scale at ANSI D AS NOTED		Status BID	Rev B1		Security STD
Drawing Number			S.1		

