PLANS FOR PROPOSED IMPROVEMENTS TO

SUNSWEPT ISLES WATER CONTROL STRUCTURE 2445 NE 207 ST

MIAMI-DADE COUNTY PROJECT NO. 20200047

INDEX OF SHEETS.

SHEET DESCRIPTION SHT. No.

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- 10 E-107 - ELECTRICAL PANEL SCHEDULES AND DETAIL

	SUMMARY OF QUANTITI	ES	
Item No.	Description	Unit	Quantit
639-1-021	ELECTRICAL POWER SERVICE (FPL)	L.S.	1
685-118B	TELEMETRY SYSTEM	L.S.	1

Note: Item 685-118B will include but is not limited to the installation of Rosemount 5408A Radar Sensors; Senix Ultrasonic Sensors; Protex-Max Explosion Proof Process Meter Pump Local Controller: Four Port Serial Communication Module; Replacement of Auma Actuator: Upgrade power conversion from 120v 1 phase to 240v 3phase service; Item 639-1-021 will include hew Electrical Panel; Demolition and Disposal of debris; Coordination of Electrical Service with Florida Power and Light and all appurtenant work.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARIMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARIMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.





111 NW 1 ST, SUITE 1510 MIAMI, FLORIDA 33128

Florida	Pompano Beach, Florida 33060-6 (954) 788-3400 rida Engineering Business License: Surveyor and Mapper Business Lice	CA7928 nse: LB6860
7 ENGINEZER 2004 200 RD:	dscape Architecture Business Licen	se: LC26000457
	DESIGNNM	CHECK TD
THOMAS F. DONAHUE, P.E. FLORIDA REGISTRATION P.F. No. 60529		DRAWN VC/MD/JN
KEITH CIVIL ENGINEER	DATE SEPTEMEBR 2022	SHEET <u>1</u> OF <u>10</u>

301 East Atlantic Boulevard

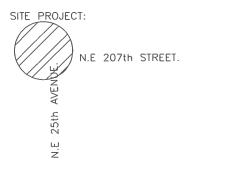
- PROJECT LOCATION

*



ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

NOTE:



LOCATION MAP: SCALE: N.T.S.

TREE TABLE:

Point Table													
Point #	Row Description	Elevation	Northing	Easting									
20	TREE	2.797	594586.0770	934919.2260									
21	TREE	0.631	594574.6330	934868.6690									
22	TREE	-0.587	594566.8180	934845.5450									
23	TREE	2.027	594573.8300	934834.0480									
24	TREE	2.308	594580.9340	934830.4450									
25	TREE	3.064	594645.0640	934789.9290									
26	TREE	2.162	594664.0740	934810.4230									

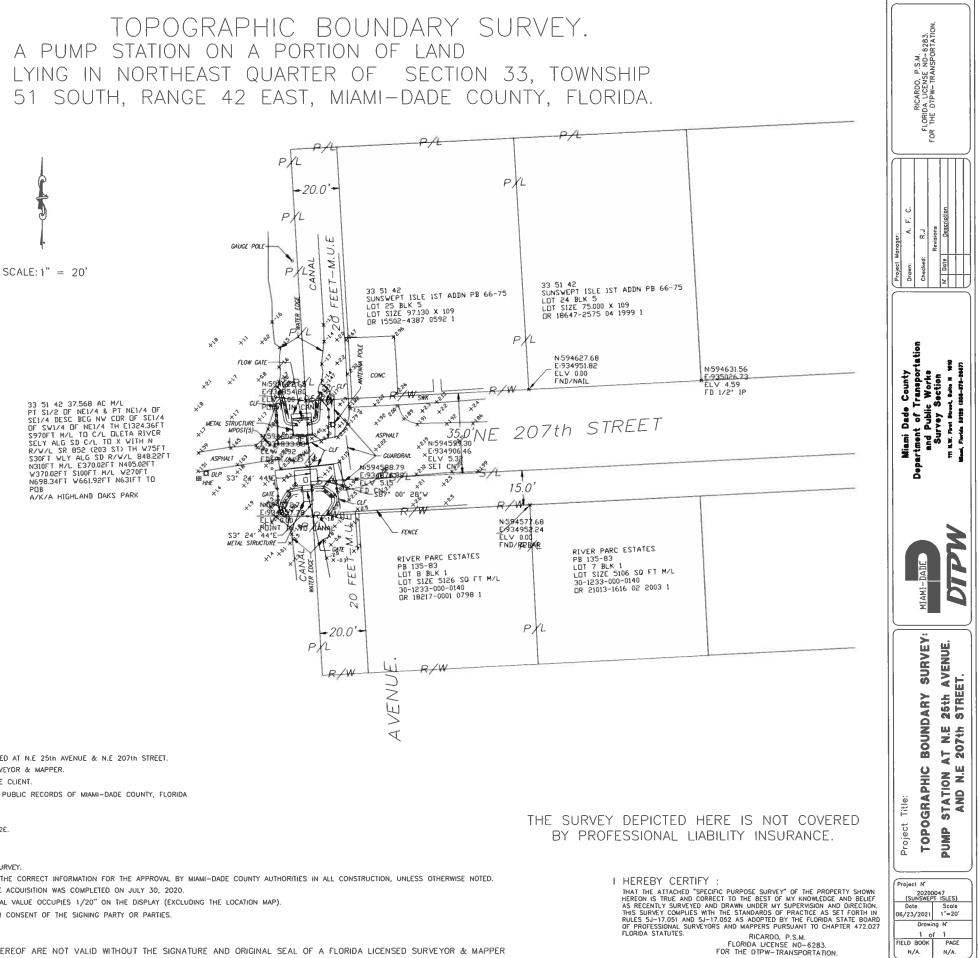
ABBREVIATIONS AND MEANINGS:

DTPW MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

- CENTERLINE
- APPROXIMATE DIAMETER OF TREE TRUNK
- APPROXIMATE HEIGHT OF TREE
- CITY OF MIAMI MONUMENT LINE
- PALM
- PSM PROFESSIONAL SURVEYOR AND MAPPER
- RIGHT-OF-WAY R/W
- APPROXIMATE DIAMETER OF TREE CANOPY S Т TREE

- LEGEND:
- A CONTROL POINT
- METAL PEDESTRIAN POLE
- EXISTING ELEVATIONS
- S SANITARY SEWER MANHOLE
- B STORM SEWER MANHOLE
- (H) MANHOLE UNKNOWN
- CONCRETE LIGHT POLE
- GAS VALVE
- WATER VALVE
- SEWER VALVE
- (V) VALVE UNKNOWN
- CATCH BASIN
- HAND-HOLE TRAFFIC SIGNAL
- SH SPRINKLER HEAD
- () TREE (VARIOUS)
- PALM TREE
- MAND-HOLE FIBER OPTIC
- M MONITORING WELL
- STANDPIPE
- HANDHOLE UNKNOWN

A PUMP STATION ON A PORTION OF LAND



LEGAL NOTES TO ACCOMPANY SPECIFIC PURPOSE SURVEY:

-THIS SURVEY MAP REPRESENTS A TOPOGRAPHIC BOUNDARY SURVEY.

-THE PURPOSE OF THIS SURVEY IS TO DEPICT THE LOCATION OF TOPOGRAPHIC FEATURES AND THE BOUNDARY SURVEY OF THE PUMP STATION LOCATED AT N.E 25th AVENUE & N.E 207th STREET.

- -THE SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR & MAPPER.
- -THIS SURVEY IS SUBJECT TO DEDICATIONS, LIMITATIONS, RESTRICTIONS, OR EASEMENTS OF RECORD; ALL EASEMENTS (IF ANY) WERE SUPPLIED BY THE CLIENT.

-SOURCES OF DATA: BASED ON A PROPERTY RECORDER LEGAL DESCRIPTION AND PLAT BOOK 66 PAGE 75 AND PLAT BOOK 135 PAGE 83 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

-ALL DISTANCE MEASUREMENTS WERE MADE IN UNITED STATES SURVEY FEET, UNLESS SHOWN OTHERWISE.

-THE PROJECT SITE IS LOCATED IN SECTION 33 TOWNSHIP 51 SOUTH, RANGE 42 EAST, IN MIAMI-DADE COUNTY, FLORIDA

-THE BEARING BASIS FOR THIS SURVEY IS NORTH 88:00'28" EAST (ASSUMED) ALONG THE SOUTH LINE OF N.E. ONE QUARTER OF SECTION 33-515-42E.

-ELEVATIONS SHOWN HEREON ARE REFERRED TO A RECORDED MIAMI-DADE COUNTY BENCH-MARK N-732, ELEVATION=5.78' N.G.V.D.-29.

-NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND UTILITIES, FOOTINGS, BUILDINGS, EXCEPT AS SHOWN HEREON, IF ANY,

-AN OPINION OF TITLE FOR THE SUBJECT PARCEL WAS NOT PROVIDED; THE SOURCES OF DATA LISTED ABOVE WERE USED AS THE BASIS FOR THIS SURVEY.

-ARCHITECTS SHALL VERIFY ZONING REGULATIONS, RESTRICTIONS AND SETBACKS AND THEY WILL BE RESPONSIBLE FOR SUBMITTING PLOT PLANS WITH THE CORRECT INFORMATION FOR THE APPROVAL BY MIAMI-DADE COUNTY AUTHORITIES IN ALL CONSTRUCTION, UNLESS OTHERWISE NOTED -AFRIAL BACKGROUND IMAGES ARE SHOWN FOR GRAPHICAL PURPOSES ONLY AND MAY NOT BE INDICATIVE OF EXISTING SITE CONDITIONS AFRIAL IMAGE ACQUISITION WAS COMPLETED ON JULY 30 2020.

-THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"= 20' OR SMALLER. AT THE MAXIMUM INTENDED DISPLAYED SCALE, THE MAP'S POSITIONAL VALUE OCCUPIES 1/20" ON THE DISPLAYED (EXCLUDING THE LOCATION MAP)

-ADDITIONS OR DELETIONS TO THE SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.



					REVISIONS						NAME	DATE	T	NAME	DATE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Sunswept Isles Water Control Structure SW 2445 NE 207 ST	DESIGNED	NV	0010	DRAWN	VC/MO/JN	SEPT. 2022	
					¥1				IMPROVEMENT PROJECT	CHECKED			CHECKED			MIAMI-DA
										SUPERVISED	34	L			1	

GENERAL ELECTRICAL NOTES & SPECIFICATIONS

- THE "GENERAL CONDITIONS OF THE CONTRACT", CURRENT EDITION, PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.
- IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF 2 CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN PROPER WORKING ORDER.
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE 3. FLORIDA BUILDING CODE (2020), NATIONAL ELECTRICAL CODE (NEC 2017) AND THE LATEST STATE AND OTHER LOCAL CODES THAT APPLY.
- THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY ALL FEES CONNECTED WITH HIS WORK. PERMIT FEES WILL BE REIMBURSED WITH A DEDICATED ALLOWANCE.
- 5. BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE BIDDERS TO VISIT THE SITE OF WORK AND ACQUAINT THEMSELVES WITH ALL AVAILABLE INFORMATION REGARDING THE EXISTING FACILITIES. FAILURE OF THE BIDDERS TO SO INFORM THEMSELVES OF EXISTING CONDITIONS AND TO INCLUDE IN THEIR PROPOSALS A SUM SUFFICIENT TO COVER SAME WILL NOT ENTITLE THEM TO AN EXTRA.
- THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS. 7.
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF ALL ELECTRICAL ITEMS. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED (UON).
- CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION IN WRITING TO THE ENGINEER, 10 WORKING 8 DAYS PRIOR TO BIDDING DATE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS. 9. SUBMIT A MINIMUM OF FOUR SETS TO THE A/E.
- GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (ARTICLE 250) AND REQUIREMENTS 10. OF THE INSPECTING AUTHORITY. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH UL APPROVED ACCESSIBLE GROUND CLAMPS, UNLESS OTHERWISE NOTED.
- UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK 11. AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.
- ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- 13. ALL ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL CIRCUITS AND APPARATUS SHALL BE IDENTIFIED.
- ALL POWER AND LIGHTING CIRCUIT WIRING SHALL BE COLOR CODED AS FOLLOWS: 14

120/24	V01		
PHASE	"A"	-	BLACK
PHASE	"B"	-	RED
PHASE	"C"	-	BLUE
NEUTRA			HITE
GROUN	D –	G	REEN

- 15. ALL CONDUCTORS SHALL BE COPPER, 600V. #10 AND SMALLER, SOLID TYPE THWN/THHN; #8 AND LARGER, STRANDED TYPE THWN/THHN.
- 16. ALL CONDUCTORS FOR POWER LIMITED CABLES SHALL COMPLY WITH ARTICLES 725 & 760 OF N.E.C. LATEST EDITION
- NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE OR BRICK WALLS SHALL ALL OCCUR WITHIN A STRUCTURAL COURSE. A MIN. AMOUNT OF BLOCK, TILE OR BRICK WALLS SHALL BE CUT. 17.
- 18. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE INDUSTRIAL GRADE, HEAVY-DUTY, AND U.L. LISTED UNLESS SPECIFIED OTHERWISE. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND THE INTENDED USE, OF THE FOLLOWING.
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - ILLUMINATING ENGINEERS SOCIETY (IES)
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NOTE: THESE STANDARDS ARE SUBORDINATE TO STANDARDS SET BY U.L. AND LOCAL CODES. WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM SIZE OF OUTLET BOXES SHALL BE 4" SQ. TRADE.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS. 20.
- ALL ELECTRICAL CONDUCTORS MUST BE IN CONDUIT. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED THAT ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILINGS OF FINISHED AREAS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, OR CORROSIVE CONDITIONS; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED IN WET OR DAMP LOCATIONS; (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS. ALL CONDUITS IN HAZARDOUS LOCATIONS SHALL MEET THE REQUIREMENTS
- OF NEC CHAPTER 5. THE USE OF ENT CONDUIT IS PROHIBITED. APPLY 2 COATS OF BITUMASTIC COATING TO ALL METALLIC CONDUITS INSTALLED UNDERGROUND. NO CONDUITS TO BE RUN IN DUCT WORK. A POLYESTER PULL CORD SHALL BE INSTALLED IN ALL EMPTY 22.
- CONDUITS
- SIZE ALL WIREWAYS ACCORDING TO N.E.C. ARTICLE 378-22. 23
- 24. ALL RATED WALL/FLOOR PENETRATIONS ARE TO BE SEALED WITH A FIRE RATED SEALER, PER ASTM E814.
- 25. ANY VARIATION FROM THE PLANS ARE TO BE PREVIOUSLY APPROVED BY THE ENGINEER IN WRITING.

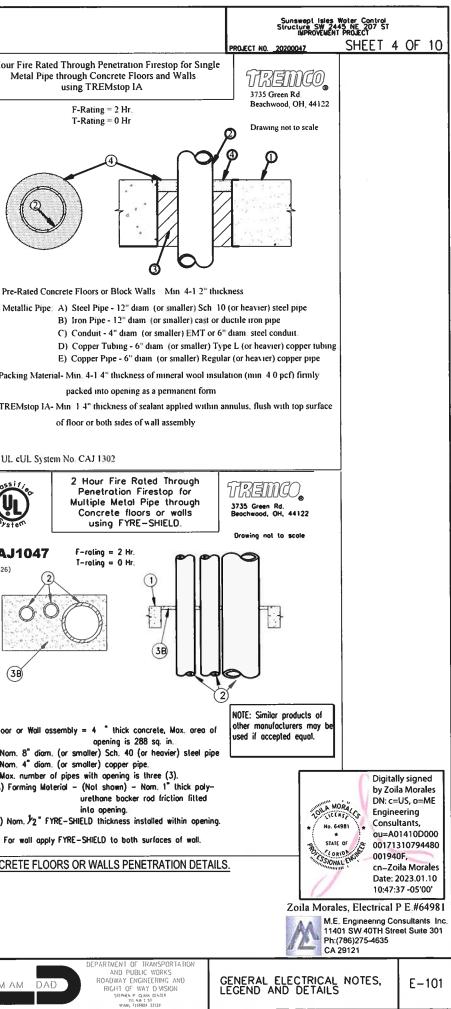
- ELECTRICAL SYMBOL LEGEND CEILING LIGHT FIXTURE-UPPER CASE LETTER DESIGNATES FIXTURE TYPE, LOWER CASE LETTER Og DESIGNATES SWITCHING. FLUORESCENT LIGHT FIXTURE SEE FIXTURE SCHEDULE EMERGENCY LIGHT TIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT DUAL HEAD EMERGENCY STAND-BY LIGHT, WITH BATTERY PACK, WALL MOUNTED. பீ MT. UP 9'0-" A.F.F. TO CL OF OUTLET BOX. SINGLE POLE TOGGLE SWITCH, 20 AMP, 120/277V.SPECIFICATION GRADE. LETTER DENOTES LIGHTS ON SWITCH "A". MOUNT AT 48" A.F.F. TO & OF OUTLET BOX UNLESS NOTED. \$. DUPLEX RECEPTACLE; 20 A., 120 V., GROUNDING TYPE. MOUNTED 18" A.F.F. TO Q OF OUTLET BOX. (EXCEPT AS NOTED). HUBBELL 52621 U.O.N. ю DUPLEX RECEPTACLE; 20 A., 120 V., GROUNDING TYPE. VERIFY MOUNTING HEIGHT. HUBBELL 52621 U.O.N. DUPLEX GFI RECEPTACLE MOUNTED HORIZONTALLY; 20 A., 120 V., GROUNDING TYPE. MOUNTED UP AS NOTED Þ DN PLANS. EXCEPT IN RESTROOMS NEXT TO SINKS WHERE IT SHALL BE MOUNTED AT 42" A.F.F. TO 👔 OF buti ft TELEPHONE/DATA OUTLET 4-11/16" X 4-11/16" 2-1/8" WITH BUSHED HOLE COVER PLATE-Þ NOUNTED 18" A.F.F. TO C OF OUTLET(EXCEPT AS NOTED) PROVIDED 3/4" E.C. FROM EACH OUTLET TO PHONE (LOCAL) PULL BOX IN CL'G SPACE (EXCEPT AS NOTED.) TELECOMMUNICATIONS ROOM. SAFETY SWITCH - HEAVY DUTY NEMA CLASS "A" IN NEMA 1 ENCLOSURE, OUTDOOR TYPE NEMA 3R. 330 designates switch rating, "3" designates poles; "20" time delay fuse; "30"switch AMPS. 11111 120/208V., 30, 4W. PANEL BOARD. EQUIPMENT JUNCTION BOX, FURNISHED WITH EQUIPMENT. IJ WALL CEILING MOUNTED JUNCTION BOX. MINIMUM 4" X 4" X 1 1/2" WITH BLANK PLATE. ው/ወ MT. WALL BOX UP AS SHOWN ON PLAN. 0 / D WALL/CEILING MOUNTED J.BOX FOR DATA OR POWER RESPECTIVELY. MT. WALL BOX UP AS SHOWN ON PLAN.
- NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

	ADDRE			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION
(TYP.)	TYPICAL	MIN.	MINIMUM	V.
PNL.	PANEL	(MFR) MANUF.	MANUFACTURER	AMP.
LT.	LIGHT	GFI.	GROUND FAULT INTERRUPTER	LTG.
ø	PHASE	M.C.B.	MAIN CIRCUIT BREAKER	H.P.
PVC	POLYVINYL-CHLORIDE	F/N	FULL NEUTRAL	J.B.
RGS	RIGID GALVANIZED STEEL	SURF.	SURFACE	GRS.

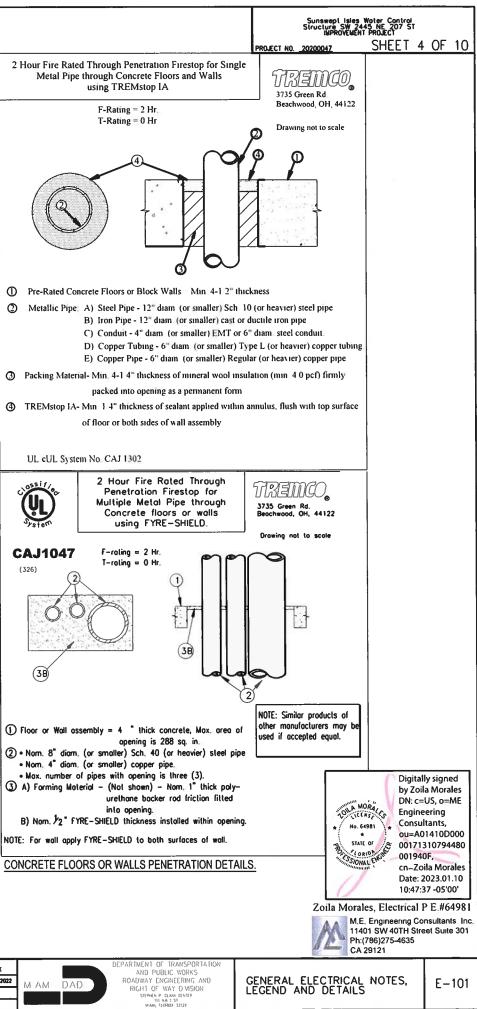
SCOPE OF WORK:

SCOPE UNDER THIS PROJECT INCLUDES THE FOLLOWING:

- INSTALLING TWO (2) NEW WATER LEVEL SENSORS (RADAR AND ٠ ULTRASONIC). NEW SENSORS TO BE CONNECTED TO EXISTING REMOTE TERMINAL UNIT (RTU) AS PER DIAGRAM ON E-105. NEW SENSORS WILL BE INTEGRATED INTO EXISTING CONTROL SEQUENCE.
- NEW SINGLE PHASE ELECTRICAL PANEL WILL BE INSTALLED TO FEED **RECENTLY INSTALLED 3 PHASE ACTUATOR VIA NEW PHASE** CONVERTER TO BE INSTALLED UNDER THIS PROJECT AS DEPICTED ON DRAWINGS E-102 & E-107.

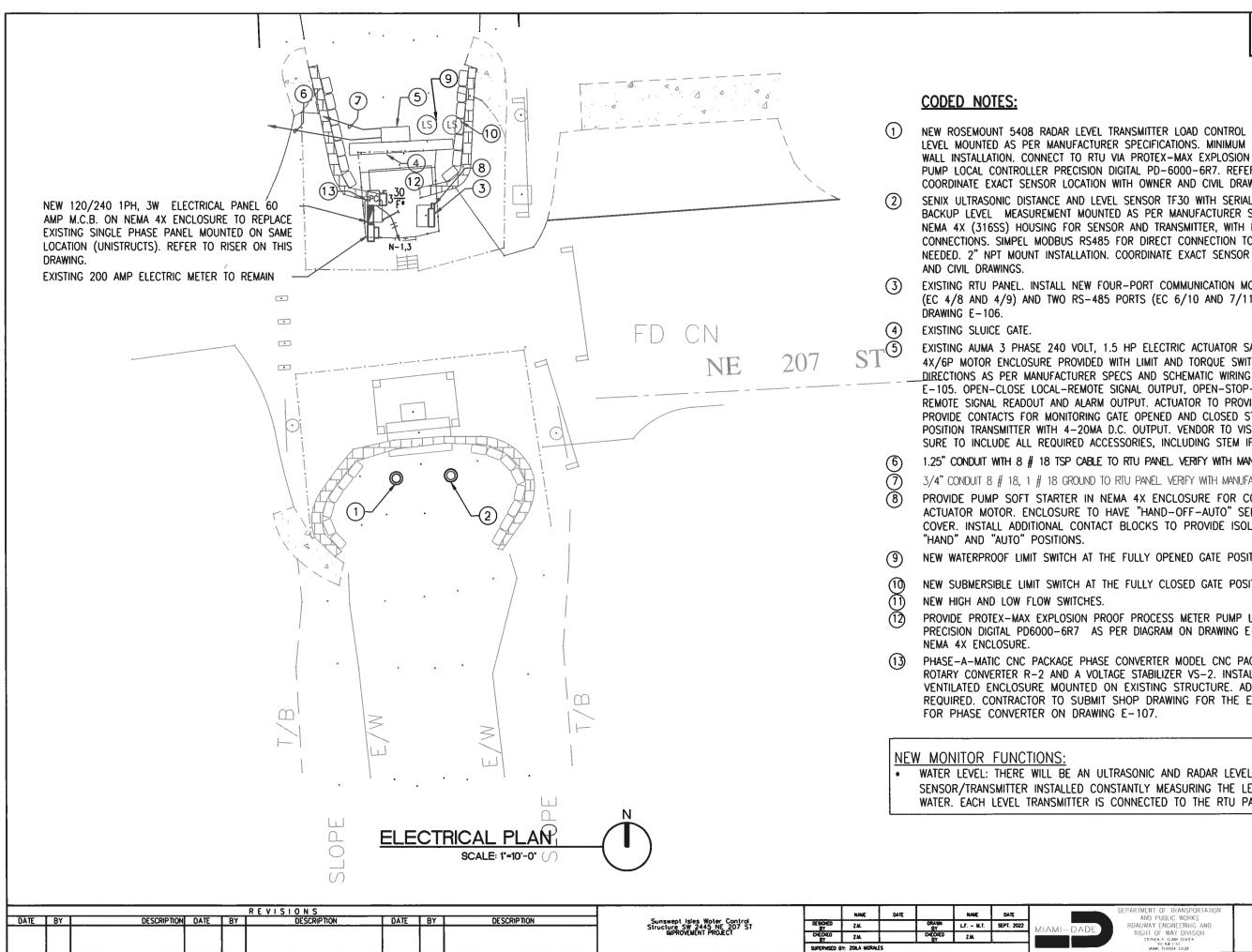






REVISIONS DATE NAME DATE RAME DESCRIPTION DATE BY DESCRIPTION DATE BY **DESCRIPTION** DATE BY Sunswept Isles Water Control Structure SW 2445 NE 207 ST L.F. - N.T. SEP1. 2022 ZM. OIEOED ZM. Z.M. SUPERVISED BY: 201A HORALE

ABBREVIATIONS



Sunswept Isles Water Control Structure SW 2445 NE 207 ST IMPROVEMENT PROJECT SHEET 5 OF 10

NEW ROSEMOUNT 5408 RADAR LEVEL TRANSMITTER LOAD CONTROL NON CONTACT WET WELL LEVEL MOUNTED AS PER MANUFACTURER SPECIFICATIONS. MINIMUM 1FT DISTANCE FROM TANK WALL INSTALLATION. CONNECT TO RTU VIA PROTEX-MAX EXPLOSION PROOF PROCESS METER PUMP LOCAL CONTROLLER PRECISION DIGITAL PD-6000-6R7. REFER TO DETAIL ON E-105. COORDINATE EXACT SENSOR LOCATION WITH OWNER AND CIVIL DRAWINGS.

ROJECT NO.

SENIX ULTRASONIC DISTANCE AND LEVEL SENSOR TF30 WITH SERIAL RS-485 INTERFACE FOR BACKUP LEVEL MEASUREMENT MOUNTED AS PER MANUFACTURER SPECIFICATIONS. USE A NEMA 4X (316SS) HOUSING FOR SENSOR AND TRANSMITTER, WITH POTTED CABLE CONNECTIONS. SIMPEL MODBUS RS485 FOR DIRECT CONNECTION TO SCADA; NO 4-20MA NEEDED. 2" NPT MOUNT INSTALLATION. COORDINATE EXACT SENSOR LOCATION WITH OWNER

EXISTING RTU PANEL. INSTALL NEW FOUR-PORT COMMUNICATION MODULE WITH TWO RS-232 (EC 4/8 AND 4/9) AND TWO RS-485 PORTS (EC 6/10 AND 7/11). REFER TO DETAIL ON

EXISTING AUMA 3 PHASE 240 VOLT, 1.5 HP ELECTRIC ACTUATOR SA16.2/AM02.1 IN NEMA 4X/6P MOTOR ENCLOSURE PROVIDED WITH LIMIT AND TORQUE SWITCHES BY PASS FOR BOTH DIRECTIONS AS PER MANUFACTURER SPECS AND SCHEMATIC WIRING ON DRAWINGS E-104 & E-105. OPEN-CLOSE LOCAL-REMOTE SIGNAL OUTPUT, OPEN-STOP-CLOSE SIGNAL INPUT, REMOTE SIGNAL READOUT AND ALARM OUTPUT. ACTUATOR TO PROVIDE OPEN/CLOSE SERVICE. PROVIDE CONTACTS FOR MONITORING GATE OPENED AND CLOSED STATUS AS WELL AS POSITION TRANSMITTER WITH 4-20MA D.C. OUTPUT. VENDOR TO VISIT THE SITE AND MAKE SURE TO INCLUDE ALL REQUIRED ACCESSORIES, INCLUDING STEM IF NEEDED, IN PRICE.

1.25" CONDUIT WITH 8 # 18 TSP CABLE TO RTU PANEL. VERIFY WITH MANUFACTURER DIAGRAM.

3/4" CONDUIT 8 # 18, 1 # 18 GROUND TO RTU PANEL. VERIFY WITH MANUFACTURER DIAGRAM.

PROVIDE PUMP SOFT STARTER IN NEMA 4X ENCLOSURE FOR CONTROLLING GATE ACTUATOR MOTOR. ENCLOSURE TO HAVE "HAND-OFF-AUTO" SELECTOR SWITCH ON COVER. INSTALL ADDITIONAL CONTACT BLOCKS TO PROVIDE ISOLATED CONTACTS FOR

NEW WATERPROOF LIMIT SWITCH AT THE FULLY OPENED GATE POSITION.

NEW SUBMERSIBLE LIMIT SWITCH AT THE FULLY CLOSED GATE POSITION.

PROVIDE PROTEX-MAX EXPLOSION PROOF PROCESS METER PUMP LOCAL CONTROLLER PRECISION DIGITAL PD6000-6R7 AS PER DIAGRAM ON DRAWING E-105. INSTALL THEM IN

PHASE-A-MATIC CNC PACKAGE PHASE CONVERTER MODEL CNC PAC-7 WHICH INCLUDES A ROTARY CONVERTER R-2 AND A VOLTAGE STABILIZER VS-2. INSTALLED IN NEMA 4X VENTILATED ENCLOSURE MOUNTED ON EXISTING STRUCTURE. ADD UNISTRUCTS IF REQUIRED. CONTRACTOR TO SUBMIT SHOP DRAWING FOR THE ENCLOSURE. SEE DETAIL

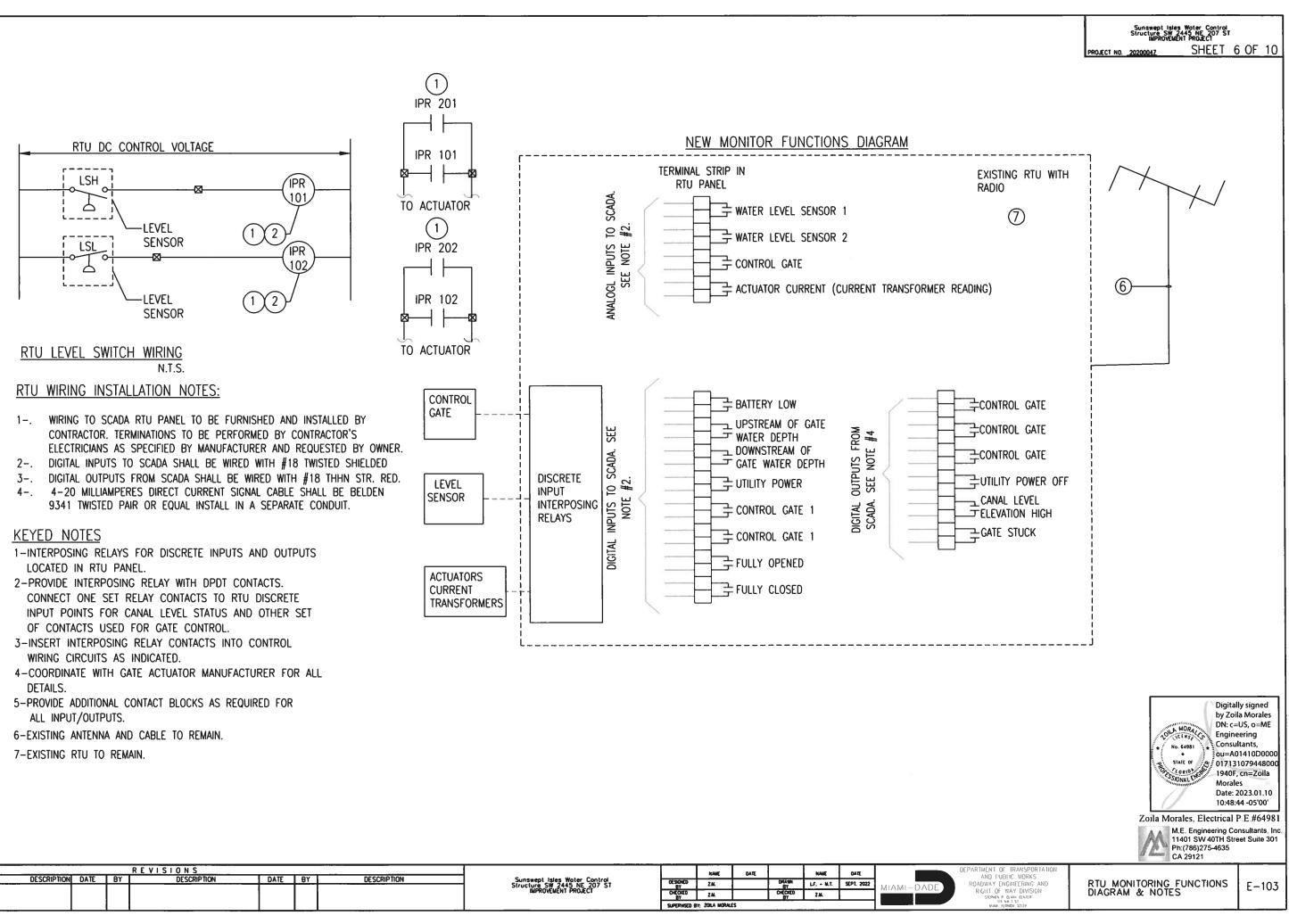
SENSOR/TRANSMITTER INSTALLED CONSTANTLY MEASURING THE LEVEL OF WATER. EACH LEVEL TRANSMITTER IS CONNECTED TO THE RTU PANEL.



M.E. Engineering Consultants, Inc 11401 SW 40TH Street Suite 301 Ph:(786)275-4635

CA 29121

ELECTRICAL PLAN



DATE BY

	FOR EACH LIMIT SWITCH.	
	CONTROLS WIRING -	SYMBOL LEGEND
	CONTROLS WIRING.	
	LEVEL TYRANSMITTER	
		J (T) NEW LEVEL TRANSMITTER.
	ட் இடைய குடியில் குடியில் குடியில் குடியில் குடையில் குடையில் குடையில் குடியில் குடியில் குடியில் குடியில் குடிய	U J NEW JUNCTION BOX.
	NEW MOTOR	
	FOR LOCK IN 1"C	- ç
	REFER TO PANEL-	
	SCHEDULE FOR WRES AND CONDUIT	
	NOTES:	
	1. CONTROLS WIRING & CONDUITS BY EMERSON	
	CONTROLS CONTRACTOR. 2. EMERSON SHALL PROGRAM A BASE LEVEL POINT	
	TO PROVIDE LEVEL WATER MEASURE.	
	GATE CONTROL SC	HEMATIC DIAGRAM
		N.T.S.
	<u>CONTROLS SEQUENCE OF OPERATION:</u> GATE OPENS WHEN HI LEVEL FLOAT SWITCH REACHES SET P	POINT DETERMINED BY CIVIL ENGINEER/OWNER.
	GATE CLOSES WHEN LOW LEVEL FLOAT SWITCH REACHES ITS THERE SHALL BE A MANUAL OVERRIDE SWITCH IN THE ELE	SET POINT DETERMINED BY CIVIL ENGINEER/OWNER.
	LOCAL RECORDERS TO CONSTANTLY RECORD THE WATER LEV	
	NEW MONITOR FUNCTIONS:	
	LEVEL OF WATER. EACH LEVEL TRANSMITTER IS CONNECTED	
	OTHER LOCATED AT THE FULLY CLOSED GATE POSITION. EAC	CHES, ONE LOCATED AT THE FULLY OPENED GATE POSITION AND THE H LIMIT SWITCH SHALL BE CONNECTED TO THE RTU PANEL. THESE
	LIMIT SWITCHES WILL PROVIDE INFORMATION TO OWNER VIA F CLOSED POSITION. (DIGITAL INPUT)	RTU PANEL AS TO WHETHER GATE IS IN FULLY OPENED OR FULLY
	 AC FAILURE (DIGITAL INPUT). BATTERY LOW (DIGITAL INPUT). 	
	· DATERT LOW (DIGHAL INPUT).	
REVISIONS DESCRIPTION DATE BY DESCRIPTION DATE BY	DESCRIPTION Sunswept Isles Water Control Structure SW 2445 NE 207 ST IMPROVEMENT PROJECT	NAME DATE NAME DATE OFSIGNO ZM. BRANN BY L.F M.T. SEP1. 2022 OFCOED ST ZM. OFCOED BY ZM. MIAMI-C

EXISTING 3#12 AWG IN 1/2" C ----

CONTROLS WIRING. TYPICAL -FOR EACH LIMIT SWITCH.

						REVISIONS						NAME	DATE		NAME	DATE	
DATE	BY	DI	SCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Sunswept Istes Water Control	0090900	7.1		DRAWN	I.F NT	SEP1. 2022	
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											BY	Z.M.		BY	2.84.	1	
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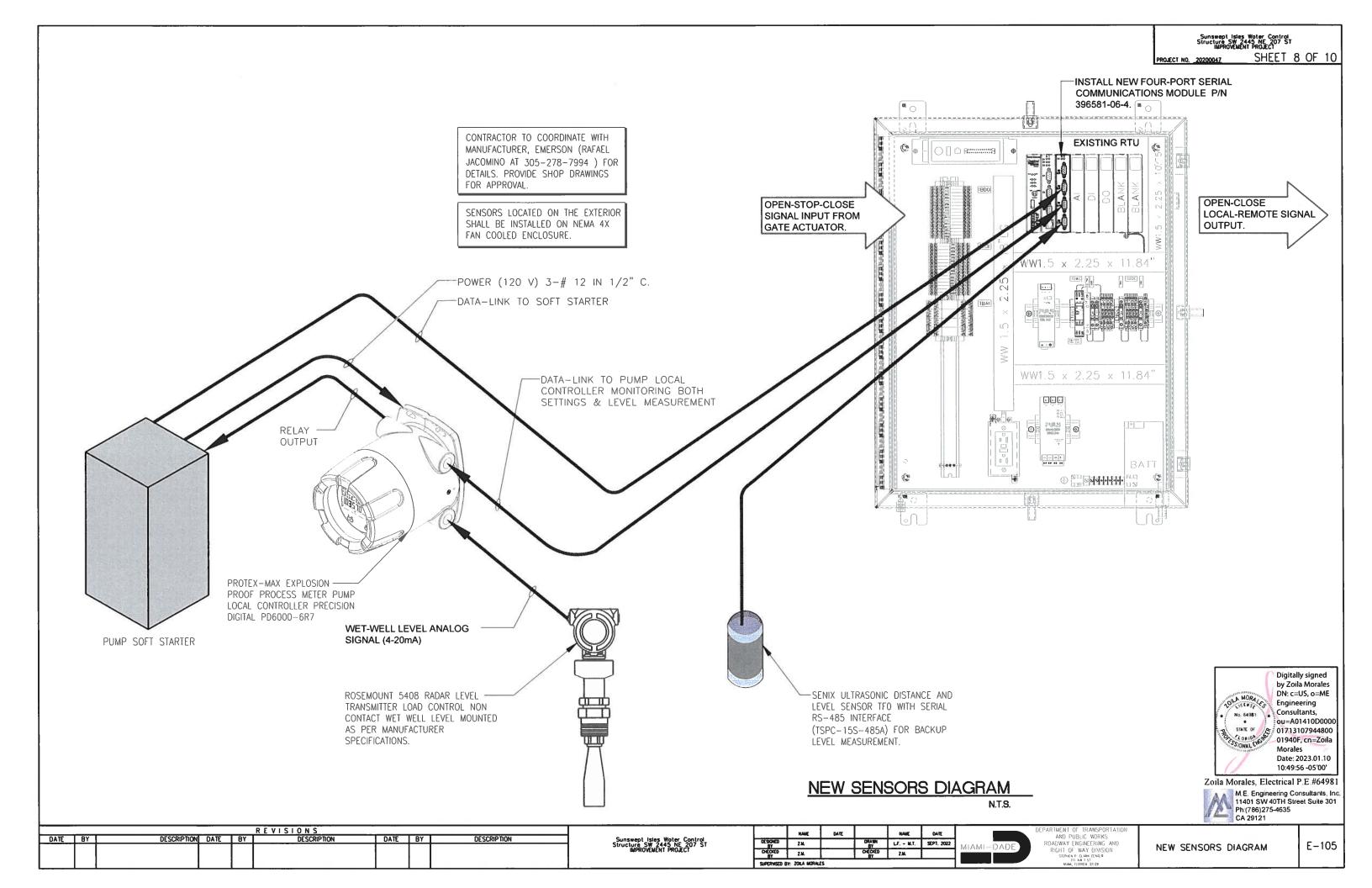
Sunswept Isles 1 Structure SW 244 IMPROVEMENT	Noter Control 15 NE 207 ST PROJECT	r		
PROJECT NO20200047	SHEET	7	OF	10

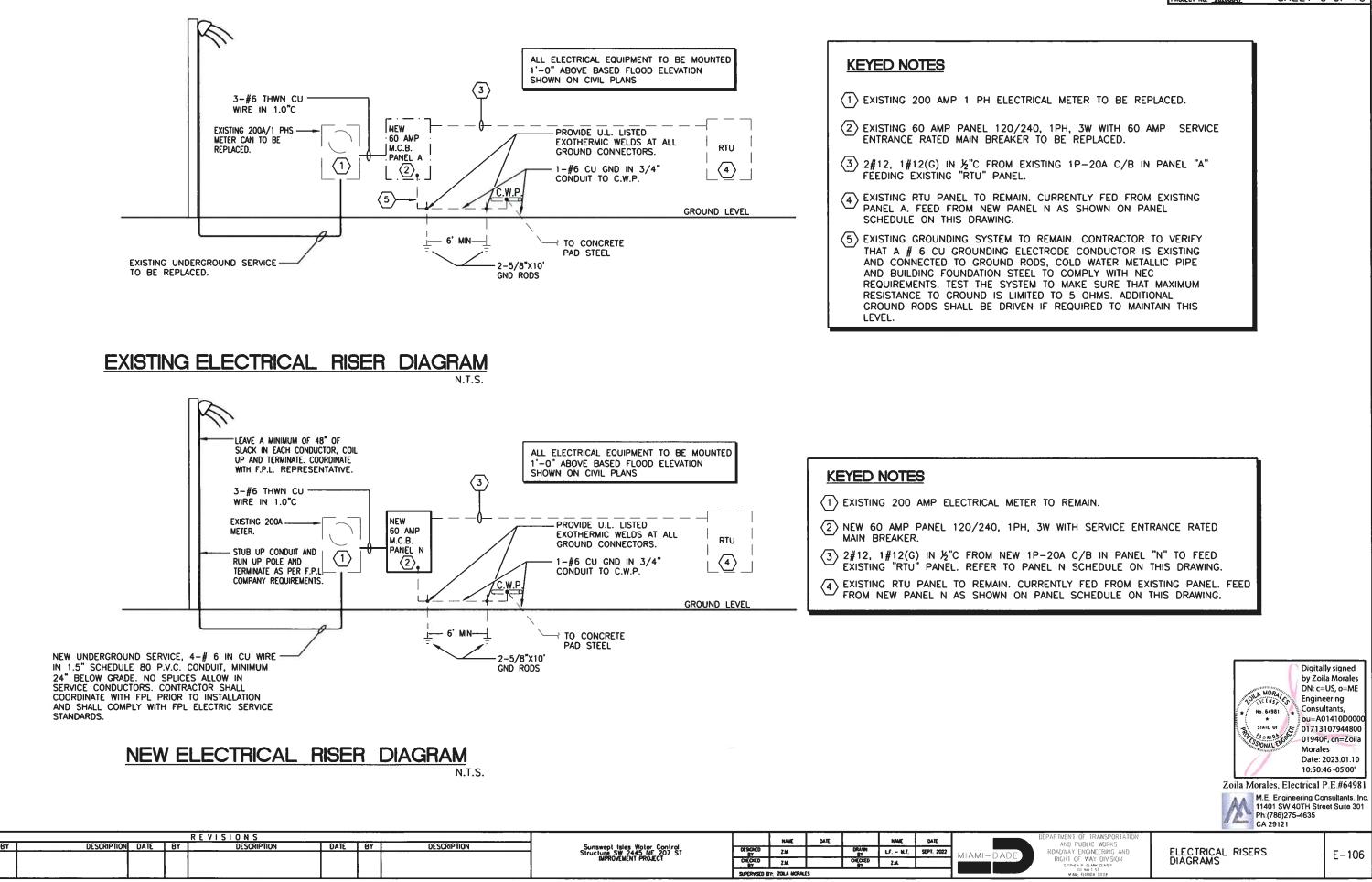


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DEPARIMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STORA P CAME CALLE UN ANT ST WAY, NICOLA STOP

GATE CONTROL SCHEMATIC DIAGRAM





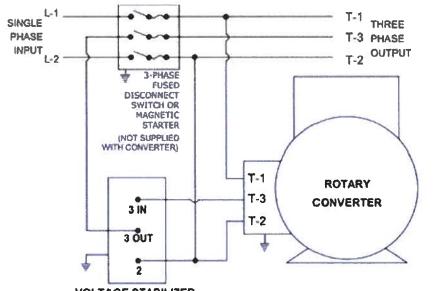
DATE BY

Sunswept Isles Water Control Structure SW 2445 NE 207 ST SHEET 9 OF 10 PROJECT NO. 20200047

																		PROJECT N		swept Isle ture SW 7 IMPROVEME 047			0 OF 10
	25.1	QOD						an					VOLTS: BUS:		120/240V, 1Ø, 3W 60 Amp	_							
	MOUNTING EX				•		EXI	STING	IO BE I	KEPLA	JED		TYPE N AIC:	AINS:	60A, MCB 10K	_	ļ						
скт #	DESCRIP	TION P	OLE	C.B. TRIP (AMPS)	WIRE	CON- DUIT	VA	"A" VA	"B" VA LOAD	VA	CON- DUIT	WIRE	C.B. TRIP (AMPS)	POLE	DESCRIPTION	 СКТ #							
1	SPACE			(ARFS)				500	LUAD	500	E	E	20	1	EXISTING	2	-(A)						
	SPACE								501	501	E	E	20	2	EXISTING	4	-(A)						
	SPACE							502		502	E	E	20	3	EXISTING	6	-(A)						
	SPACE SPACE				 	ļ	 	4.500	0				20		EXISTING	8							
-	SPACE							1,500	0	1,500	E	E	30		EXISTING	10 12	-(A)						
	MAIN		2	60	Ε	E		0	<u> </u>							14	1						
15			-	/					0							16	1						
		L		-	-	ТОТ	TALS	2,502	501		-	-	-	-	-	-	1						
С	NNECTED LOA	AD (KVA):	3	0.0	D	EMAN) (KVA):	3.0		AMPS/I	PHASE	1	3									
	XISTING WIRE			i io ita		•																	
	EQUAL TO: SO	QUARE D					D	an		N			VOLTS:		120/240V, 1Ø, 3W								
	TYPE: NO		4X				P	an		N			BUS:		60 Amp								
	TYPE: NO	QOD NEMA	4X				Ρ	an	el New	Ν			BUS: TYPE M		60 Amp 60A, MCB								
	TYPE: NO	QOD NEMA	4X				P		NEW	N			BUS:		60 Amp]						
	TYPE: NO MOUNTING SU LOCATION: EX	QOD NEMA JRFACE KTERIOR	OLE	C.B. TRIP (AMPS)	WIRE	CON- DUIT		"A" VA			CON- DUIT	WIRE	BUS: TYPE M AIC:	AINS:	60 Amp 60A, MCB 10K	 скт #							
#	TYPE: NO MOUNTING SU LOCATION: E)	QOD NEMA JRFACE KTERIOR	OLE	TRIP	WIRE #12		VA 1,245	"A" VA LOAD 1,745	NEW "B" VA LOAD	VA 500		WIRE	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING		-(A)						
# 1 3	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745	NEW "B" VA LOAD	VA 500 501	E	E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING	# 2 4	-(A) -(A)						
# 1 3 5	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE	TRIP (AMPS)		DUIT	VA 1,245	"A" VA LOAD 1,745	NEW "B" VA LOAD	VA 500 501 502	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING	# 2 4 6	-(A) -(A) -(A)						
# 3 5 7	TYPE: N MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745	NEW "B" VA LOAD	VA 500 501 502	E	E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING	# 2 4 6 8	-(A) -(A)						
# 3 5 7 9	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702	NEW "B" VA LOAD	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING	# 2 4 6	-(A) -(A) -(A)						
# 3 5 7 9 11	TYPE: NO MOUNTING SU LOCATION: ED DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702	NEW 'B'' VA LOAD 1,746 1,500	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE	# 2 4 6 8 10	-(A) -(A) -(A)						
# 1 3 5 7 9 11 13 15	TYPE: N MOUNTING SI LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0	NEW 'B'' VA LOAD 1,746 1,500	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16	-(A) -(A) -(A)						
# 1 3 5 7 9 11 13 15 17	TYPE: N MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0	NEW 'B'' VA LOAD 1,746 1,500 0 0 0	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18	-(A) -(A) -(A)						
# 1 3 5 7 9 11 13 15 17 19	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0	NEW VA LOAD 1,746 1,500 0	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20	-(A) -(A) -(A)						ly signed
# 1 3 5 7 9 11 13 15 17 19 21	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0	NEW 'B'' VA LOAD 1,746 1,500 0 0 0	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22	-(A) -(A) -(A)				ALCO MOLECTION	by Zoil DN: c=	la Morales US, o=ME
# 1 3 5 7 9 11 13 15 17 19 21	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE (TERIOR TION PO OR	OLE 2	TRIP (AMPS) 15		DUIT 1/2"	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0 0 0	NEW VA LOAD 1,746 1,500 0 0 0 0	VA 500 501 502 1,500	E	E E E	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20	AINS: POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20	-(A) -(A) -(A)			TOTA I	MORA 64981	by Zoil DN: c= Engine Consu	la Morales US, o=ME ering Itants,
# 1 3 5 7 9 11 13 15 17 19 21 23	TYPE: NO MOUNTING SU LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA JRFACE KTERIOR TION PO OR 1	OLE 2	TRIP (AMPS) 15	#12	DUIT 1/2"	VA 1,245 1,245 200	"A" VA LOAD 1,745 702 0 0 0 0	NEW 'B'' VA LOAD 1,746 1,746 0 0 0 0 0 3,246	VA 500 501 502 1,500	E		BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20 20 30	AINS: POLE 1 2 3 1 	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22	-(A) -(A) -(A)			* No.		by Zoil DN: c= Engine Consul ou=A0 00171: 001940 cn=Zo Date: 2	la Morales EUS, o=ME eering Itants, 01410D000 310794480 0F, ila Morales 2023.01.10
1 3 5 7 9 11 13 15 17 19 21 23 CC A)- B)-	TYPE: N MOUNTING SI LOCATION: E) DESCRIPT NEW ACTUAT SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	QOD NEMA	0LE 2 1 5 5	TRIP (AMPS) 15 20 20 5.7 Y FED F RANCH	#12	DUIT 1/2"	VA 1,245 1,245 200 	"A" VA LOAD 1,745 702 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NEW ''B'' VA LOAD 1,746 1,746 0 0 0 0 0 0 0 0 0 0 3,246 5,7 0 STING	VA 500 501 502 1,500		E E E E E E E E E ING	BUS: TYPE M AIC: C.B. TRIP (AM PS) 20 20 20 20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	AINS: POLE 1 2 3 1 	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22	-(A) -(A) -(A)		Z	nila Mora	ales, Ele	by Zoil DN: c= Engine Consul 00171: 001940 cn=Zo Date: 2 10:51: ectrical 1 eering Co	la Morales US, o=ME eering Itants, 01410D000 310794480 0F, ila Morales

																	PROJECT NO		pt Isles Woto s SW 2445 I ROVEMENT PRI S		<u>0 OF 10</u>
	EQUAL TO: SQUA TYPE: NQOD			-			Pan					VOLTS: BUS:		120/240V, 1Ø, 3W 60 Amp	_						
	MOUNTING EXISTI			-		EX	ISTING	IO BE I	KEPLA	CED		TYPE M AIC:	AINS.	60A, MCB 10K	_						
скт #	DESCRIPTION	POLE	C.B. TRIP (AMPS)	WIRE	CON- DUIT	VA	"A" VA	"B" VA LOAD	VA	CON- DUIT	WIRE	C.B. TRIP (AMPS)	POLE	DESCRIPTION	 Скт #						
1	SPACE						500		500	E	E	20		EXISTING	2	-(A)					
3	SPACE							501	501	E	E	20	2	EXISTING	4	-(A)					
	SPACE						502		502	E	Е	20	3	EXISTING	6	-(A)					
	SPACE							0							8						
	SPACE						1,500		1,500	E	E	30	1	EXISTING	10	-(A)					
	SPACE							0							12						
13	MAIN	2	60	Ε	E		0								14						
15								Ô							16	l					
					TOT	TALS	2,502	501													
со	NNECTED LOAD (K	VA):	3.0	- D	EMAN	DLOAD) (KVA) :	3.0	- /	amps/f	PHASE	1	3								
E- E)	XISTING WIRE AN	D CONDL	IIIOR		I																
	EQUAL TO: SQUA	RE D				F	Pan	el	N			VOLTS:		120/240V, 1Ø, 3W	_						
	EQUAL TO: SQUAL TYPE: NQOD	RE D NEMA 4X				P	Pan		N			BUS:	•	60 Amp	_						
	EQUAL TO: SQUAF TYPE: NQOD MOUNTING SURF/	RED NEMA 4X ICE		- ·		P	Pan	el NEW	N			BUS:	AINS:		-						
	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER	RED NEMA 4X ICE				1		NEW				BUS: TYPE M AIC:	AINS:	60 Amp 60A, MCB	-						
	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER	RED NEMA 4X ICE	C.B.	WIRE	CON	1	"A" VA			CON- DUIT	WIRE	BUS: TYPE M AIC:	AINS:	60 Amp 60A, MCB 10K	– – – – – –						
скт #	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER	RE D NEMA 4X ICE IOR	C.B. TRIP	WIRE	CON-	VA	"A" VA	NEW "B" VA LOAD			WIRE	BUS: Type M AIC: C.B. Trip	AINS:	60 Amp 60A, MCB 10K	#	-(A)					
CKT # 1	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS)	WIRE	CON- DUIT	VA	"A" VA LOAD 1,745	NEW "B" VA LOAD 1,746	VA		WIRE	BUS: TYPE M AIC: C.B. TRIP (AMPS)	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING	#	-(A) -(A)					
CKT # 1 3 5	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS)	WIRE	CON- DUIT	VA	"A" VA LOAD 1,745	NEW "B" VA LOAD 1,746	VA 500 501 502	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	AINS POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING	# 2 4 6	-(A) -(A)					
CKT # 1 3 5 7	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702	NEW "B" VA LOAD 1,746 1,500	VA 500 501	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20	AINS POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING	# 2 4 6 8	-(A)					
CKT # 1 3 5 7 9	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745	NEW "B" VA LOAD 1,746 1,500	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE	# 2 4 6 8 10	-(A) -(A)					
CKT # 1 3 5 7 9 11	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0	NEW "B" VA LOAD 1,746 1,500 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE	# 2 4 6 8 10 12	-(A) -(A)					
CKT # 1 3 5 7 9 11 13	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702	NEW "B" VA LOAD 1,746 1,746 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE	# 2 4 6 8 10 12 14	-(A) -(A)					
CKT # 1 3 5 7 9 11 13 15	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0	NEW "B" VA LOAD 1,746 1,500 0 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16	-(A) -(A)					
CKT # 1 3 5 7 9 11 13 15 17	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0	NEW ''B'' VA LOAD 1,746 1,500 0 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18	-(A) -(A)					
CKT # 1 3 5 7 9 11 13 15 17 19	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0 0 0	NEW "B" VA LOAD 1,746 1,746 0 0 0 0 0 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20	-(A) -(A)		Г			Illy signed
CKT # 1 3 5 7 9 11 13 15 17 19 21	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0	NEW "B" VA LOAD 1,746 1,746 0 0 0 0 0 0 0 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22	-(A) -(A)		Γ	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	by Zo	ila Morales =US, o=ME
CKT # 1 3 5 7 9 11 13 15 17 19 21	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE	C.B. TRIP (AMPS) 15	WIRE	CON- DUIT 1/2"	VA 1,245 1,245	"A" VA LOAD 1,745 702 0 0 0 0 0	NEW "B" VA LOAD 1,746 0 1,500 0 0 0 0 0 0 0 0 0 0 0 0	VA 500 501 502 1,500	E	WIRE E E	BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20	POLE	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20	-(A) -(A)		1400.	No. 64981	by Zo DN: c Engin	ila Morales
CKT # 1 3 5 7 9 11 13 15 17 19 21 23 CO	EQUAL TO: SQUAI TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE 2 1 1 	C.B. TRIP (AMPS) 15 20 5.7	WIRE #12	CON- DUIT 1/2"	VA 1,245 200 	"A" VA LOAD 1,745 702 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NEW "B" VA LOAD 1,746 1,746 0 1,746 0 0 0 0 0 0 0 0 0 0 0 0 0	VA 500 501 502 1,500			BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20 20 20 20 20 20 20 20 20 20 20	AINS: POLE 1 2 3 1 2 3 1 2 4	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22	-(A) -(A)		"Ang Harmen and	No. 64981 STATE OF STORAL OF Morales, M.E. Eng	by Zo DN: c Engin Consu Cou=A 00177 00194 cn=Zc Date: 10:51 Electrical gineering C	ila Morales =US, o=ME eering ultants, 01410D000 31079448 i0F, bila Morale 2023.01.10 30 -05'00' P.E.#649 onsultants,
CKT # 1 3 5 7 9 11 13 15 17 19 21 23 CO (A)- E (B)- 1	EQUAL TO: SQUAR TYPE: NQOD MOUNTING SURF/ LOCATION: EXTER DESCRIPTION NEW ACTUATOR SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	RE D NEMA 4X ICE IOR POLE 2 1 1 	C.B. TRIP (AMPS) 15 20 5.7 5.7	WIRE	CON- DUIT 1/2" TOT	VA 1,245 200	"A" VA LOAD 1,745 702 00 00 00 00 00 00 00 00 00 00 00 00 0	NEW "B" VA LOAD 1,746 1,746 0 1,746 0 0 0 0 0 0 0 0 0 0 0 0 0	VA 500 501 502 1,500			BUS: TYPE M AIC: C.B. TRIP (AMPS) 20 20 20 20 20 20 20 20 20 20 20 20 20	AINS: POLE 1 2 3 1 2 3 1 2 4	60 Amp 60A, MCB 10K DESCRIPTION EXISTING EXISTING EXISTING EXISTING SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	# 2 4 6 8 10 12 14 16 18 20 22 24	-(A) -(A) -(A)		"Ang Harmen and	Morales, M.E. En, 11401 S	by Zo DN: c: Engin ou=A 00171 00194 cn=Z: Date: 10:51 Electrical gineering C W 40TH Sti 1275-4635	ila Morales =US, o=ME eering JItants, 01410D000 310794480 i0F, bila Morales 2023.01.10 :30 -05'00'

					REVISIONS						HANE	DATE		MART	CAT	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Sunswept Isles Water Control Structure SW 2445 NE 207 ST	OE SOMED	ZM.		ORANN BY	LT MT.	SEP1. 2022	MIANI-DAD
1									IMPROVEMENT PROJECT	CHECKED	2.14.		CHECHED BY	Z.M.		WITAWI - DAD
										SUPERVISE) BY: ZOLA NOR	ues				



VOLTAGE STABILIZER