

REGULAR MEETING AGENDA

February 10, 2021



February 3, 2021

Board of Supervisors
Sunshine Water Control District

ATTENDEES:

Please identify yourself each time you speak to facilitate accurate transcription of meeting minutes.

Dear Board Members:

The Board of Supervisors of the Sunshine Water Control District will hold a Regular Meeting on February 10, 2021, at 6:30 p.m., at La Quinta Inn Coral Springs, 3701 N. University Drive, Coral Springs, Florida 33065. The agenda is as follows:

- 1. Call to Order
- 2. Roll Call
- 3. Pledge of Allegiance
- 4. Public Comments [3-Minute Time Limit] (Comments should be made from the microphone to ensure recording. Please state your name prior to speaking.)
- 5. Coral Springs Police Department Trespass/Barring Program
 - A. Overview from Officer Glenn Roberts, Community Services Component
 - B. Traffic Enforcement Request
 - C. Trespass Affidavit
- 6. Acceptance of Unaudited Financial Statements as of December 31, 2020
- 7. Approval of January 13, 2021 Regular Meeting Minutes
- 8. Public Comments
- 9. Supervisors' Communications
- 10. Staff Reports
 - A. District Counsel: Lewis, Longman & Walker, P.A.
 - B. District Engineer: Craig A. Smith & Associates
 - I. Presentation: Monthly Engineer's Report
 - II. Permit Applications

Board of Supervisors Sunshine Water Control District February 10, 2021, Regular Meeting Agenda Page 2

- a. Broward County Highway Construction and Engineering Division (Atlantic Blvd. from Coral Springs Drive to State Road 7/US 441)
- b. N.W. 24th Street Culverts Westchester Update
- III. PS1 and PS2 Electrical Engineering Design Update
 - Status of Electrical Engineering Plans for Pump Stations 1 & 2 (Mr. Larry Smith, Smith Engineering Company)
- IV. West Outfall Canal and Bridge Approach
- C. District Engineering Consultant: John McKune
- D. District Field Supervisor: Cory Selchan
- E. District Manager: Wrathell, Hunt & Associates, LLC
 - I. COVID Update
 - II. Notice of Violation Letters
 - III. NEXT MEETING DATE: March 10, 2021 at 6:30 P.M.
 - QUORUM CHECK

Joe Morera	IN PERSON	PHONE	☐ No
Daniel Prudhomme	☐ IN PERSON	PHONE	□ No
Ivan Ortiz	IN PERSON	PHONE	☐ No

11. Adjournment

Should you have any questions, please contact me directly at (561) 346-5294.

Sincerely,

Cindy Cerbone
District Manager

FOR BOARD MEMBERS AND STAFF TO ATTEND BY TELEPHONE

CALL-IN NUMBER: 1-888-354-0094 CONFERENCE ID: 8518503

From: Glenn Roberts [mailto:GRoberts@coralsprings.org]

Sent: Friday, January 22, 2021 5:12 AM

To: Cindy Cerbone

Subject: CSPD Trespass Program

Good Morning,

I received a message from the Chief's Office that Sunshine is interested in the Trespass/Barring Program. For details and enrollment forms to the program, please see the attached enrollment documents and/or hyperlink. Once completed, e-mail them back to me for processing. I will then review the site ingress points and determine the minimum signage requirements by Florida State Statues.

https://www.coralsprings.org/government/other-departments-and-services/police/programs-training/trespass-program

Trespass Program | Coral Springs, FL

Community Partnership: The Coral Springs Police Department is committed to fostering a partnership with the businesses and residential dwellings in our community as a means of ensuring public safety. www.coralsprings.org

Once the attached forms have been approved, Sunshine may purchase the required signage. Please ensure that the signage can be viewed upon entering the property from either the vehicle entrance areas or pedestrian walkways. Installation is the responsibility of the site property management or owner.

See the below listed single-source vendor where you can procure the signage necessary for implementation.

First Sign, Inc. 2085 N. Powerline Rd. STE 1 Pompano Beach, Fl. 33069 954-972-7222 https://www.firstsign.com/

Do not hesitate to contact us if you have any questions.

Stay safe,



OFFICER GLENN ROBERTS

Community Services Component Coral Springs Police Department

<u>groberts@coralsprings.org</u> • Phone 954-344-1835 • Fax 954-346-1360 City of Coral Springs • 2801 Coral Springs Drive • Coral Springs, Florida 33065

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5B

TRESPASS ENFORCEMENT REQUEST

TO:	Coral Springs Po	olice Department, Co	community Involvem	ent Unit		
FROM:	YOUR Name _					
	Mailing Address	s				
	City			State	Zip	_
	Phone ()	<u> </u>		Cell ()		
	E-Mail or Fax:				REQUIRED	
I, _ ADDRESS Coral Sprin Substantive make rease premises a arresting an The violations of the premise The is revoked, to remove	HERE): legs Police Department le Law 810.08 and 8 legs police Department legs Police Department legs Police Department legs Law 810.08 and 8 legs police Department legs police Law 810.08 and 8 legs police Department legs police	ent and its officers of to 10.09. Officers of to leave of any person public. Furthermore persons who refuse ees to cooperate fremises and certified er agrees to notify the is any change in cost and the property	er or person having to act as my agenthe Coral Springs Porons in or on the process or a reasonable required by the Coral Springs Porontact information.	ng lawful cont its in enforcing olice Departme oremises at a result and the authorized to leave give cution of persult of the country of the owner or persultice Departme Failure to do n.	rol of (PROPERTY NAME AI , hereby authorize to gethe provisions of Florida Statent are specifically authorized time or in a place wherein to act as agents of the owner wen by officers. sons subsequently arrested to erson having lawful control own tin writing when this author so will allow the City the right.	he to he in for rer
Authorizing	g Signature:		Date:			

Send completed form to the below listed address, attention to the "Community Involvement Unit" communityinvolvement@coralsprings.org. A survey of your property will then be completed to determine the signage requirements.







CORALSPRINGS POLICE DEPARTMENT TRESPASS AFFIDAVIT

Sworn officers of the Coral Springs Police Department are authorized representatives to enforce FS 810.08 and/or 810.09 (Trespass) and warn/direct any person to leave the premise of:

(Legal Business Name)	,
D.B.A	,
Address/Telephone:	,
Broward County, Florida. Authority is granted by (Name)	
in the position of (Manager/Owner)	
I hereby request and authorize sworn officers of the Coral Spring to act as my agent to enforce FS 810.08 and/or 810.09 (Trespa surrounding curtilage (including parking areas) of the above busin I also acknowledge I will assist with the prosecution of persons arragents of the above business.	ss) on property and ess or property.
Authorized Signature/Title	Date
STATE OF FLORIDA COUNTY OF BROWARD	
The foregoing instrument was acknowledged before me this	day of
, <u>20</u> by	, who is
personally known to me or who has produced	
as identification.	
NOTARY PUBLIC	
Print, Type, or Stamp Commissioned Name of Notary Public	

6

SUNSHINE
WATER CONTROL DISTRICT
FINANCIAL STATEMENTS
UNAUDITED
DECEMBER 31, 2020

SUNSHINE WATER CONTROL DISTRICT BALANCE SHEET GOVERNMENTAL FUNDS DECEMBER 31, 2020

	General Fund	Debt Service Fund Series 2011	Debt Service Fund Series 2018	Total Governmental Funds
ASSETS				
Centennial Bank	\$ 1,468,261	\$ -	\$ -	\$ 1,468,261
Centennial Bank - escrow	80,773	-	-	80,773
Investments				
State Board of Administration				
A Investment account	5,121	-	-	5,121
A Bank maintenance reserve account	2,682	-	-	2,682
A Renewal & replacement reserve account	1,996	-	-	1,996
A Equipment replacement reserve account	210	-	-	210
Centennial Bank - MMA	259,114	-	-	259,114
FineMark Bank - MMA	249,015	-	-	249,015
FineMark Bank - ICS	14,148,237	-	-	14,148,237
Iberia Bank - MMA	5,529	-	-	5,529
Debt service - Wells Fargo	-	61	-	61
Debt service - Regions	-	-	6,994	6,994
Reserve - Wells Fargo	-	83	-	83
Due from general fund			393,866	393,866
Total assets	\$16,220,938	\$ 144	\$ 400,860	\$ 16,621,942
LIABILITIES				
Liabilities:				
Accounts payable	\$ 121,703	\$ -	\$ -	\$ 121,703
Due to debt service	393,866	-	-	393,866
Deposits payable/trash bonds	144,500	-	-	144,500
Cost recovery deposits	16,594	-	-	16,594
Pension payable	7,423			7,423
Total liabilities	684,086	-		684,086
FUND BALANCES				
Assigned:				
3 months working capital	1,441,052	-	_	1,441,052
Disaster recovery	3,000,000	-	_	3,000,000
Truck replacement	114,000	-	_	114,000
Restricted for	,			•
Debt service	-	144	400,860	401,004
Unassigned	10,981,800	-	-	10,981,800
Total fund balances	15,536,852	144	400,860	15,937,856
Total liabilities and fund balances	\$16,220,938	\$ 144	\$ 400,860	\$ 16,621,942

SUNSHINE

WATER CONTROL DISTRICT

STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES GENERAL FUND

FOR THE PERIOD ENDED DECEMBER 31, 2020

	Current Month	Year to Date	Adopted Budget	% of Budget
REVENUES				
Assessments	\$ 2,244,954	\$ 2,732,940	\$ 3,286,254	83%
Interest and miscellaneous	784	1,947	9,000	22%
Permit review fees	350	3,500	4,200	83%
Cost recovery	-	-	17,500	0%
Insurance proceeds	2 246 000	350	2 246 054	N/A
Total revenues	2,246,088	2,738,737	3,316,954	83%
EXPENDITURES				
Administrative				
Supervisors	-	250	1,800	14%
Supervisors reimbursement	-	- 	7,500	0%
Management/accounting/recording	5,163	15,490	61,960	25%
DSF & CPF accounting	1,207	3,619	14,474	25%
Dissemination fee	83	250	1,000	25%
Arbitrage rebate calculation	-	4 000	750 5 000	0%
Trustee	-	4,000	5,000	80%
Audit	1 150	- 6 100	11,200	0% 6%
Legal	1,458 594	6,122 1,781	95,000 7,123	25%
Human resource services Communication	394	1,701	7,123 7,500	0%
Dues/subscriptions	-	4,175	4,500	93%
Rent - operations facility	7,646	11,466	45,873	25%
Insurance	7,040	22,575	30,994	73%
Legal advertising	-	22,373	2,500	8%
Office supplies and expenses	294	294	1,500	20%
Postage	113	275	1,200	23%
Postage-ROW clearing	-	213	500	0%
Printing and binding	116	350	1,400	25%
Website	-	-	3,000	0%
ADA website compliance	_	_	210	0%
Contingencies	_	_	5,000	0%
Total administrative expenses	16,674	70,853	309,984	23%
Total dallimorativo oxponess		. 0,000		
Field operations				
Salaries and wages	26,894	103,981	438,375	24%
FICA taxes	2,195	8,106	33,536	24%
Special pay	1,798	1,987	1,650	120%
Bonus program	-	-	1,000	0%
401a retirement plan	2,629	10,278	43,838	23%
Health insurance	16,020	48,039	278,434	17%
Workers' compensation insurance	-	11,605	21,000	55%
Engineering	4,725	7,665	75,000	10%
Engineering - capital outlay westchester	420	5,258	10,000	53%
Engineering - capital outlay ps1 & ps2	-	-	201,860	0%

SUNSHINE

WATER CONTROL DISTRICT STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES

GENERAL FUND

FOR THE PERIOD ENDED DECEMBER 31, 2020

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	Current Month	Year to Date	Adopted Budget	% of Budget
Consulting angineer convices	IVIOTILIT	Date		
Consulting engineer services	-	-	25,000	0%
Cost recovery	- 4 400	4 400	17,500	0%
Water quality testing	1,132	1,132	5,224	22%
Telephone	592	592	1,800	33%
Electric	19,487	35,231	85,000	41%
Insurance	-	51,723	38,000	136%
Repairs and maintenance				
Canal banks	-	-	20,000	0%
Canal dredging	-	-	50,000	0%
Culvert inspection & cleaning	-	-	100,000	0%
Dumpster service	1,343	1,343	13,000	10%
Truck & tractor	-	231	21,000	1%
Other	=	323	21,000	2%
Operating supplies				
Chemicals	20,097	20,097	90,000	22%
Fuel	1,364	1,364	20,000	7%
Fuel-pump station generator	-	-	35,000	0%
Triploid carp	-	-	19,755	0%
Uniforms	148	406	3,217	13%
Other	_	37	4,000	1%
Permit fees, licenses, schools	180	180	5,000	4%
Capital outlay - westchester	2,151	7,601	50,087	15%
Capital outlay - pump station 1 & 2	102,090	102,090	3,576,385	3%
Field equipment	-		35,000	0%
Pump station telemetry	594	718	40,000	2%
Contingencies	-	1,841	5,000	37%
Total field operations	203,859	421,828	5,385,661	8%
Other fees and charges	200,000	721,020	3,000,001	. 070
Tax collector	22,450	27,330	34,232	80%
Property appraiser	22,450	27,330	34,232	80%
	22,430	38	100	38%
Property tax bills - fire & EMS assessment	44,900	54,698	68,564	80%
Total overeditures				9%
Total expenditures	265,433	547,379	5,764,209	9%

SUNSHINE WATER CONTROL DISTRICT STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES GENERAL FUND

FOR THE PERIOD ENDED DECEMBER 31, 2020

	Current Month	Year to Date	Adopted Budget	% of Budget
Excess/(deficiency) of revenues				20.2901
over/(under) expenditures	1,980,655	2,191,358	(2,447,255)	
OTHER FINANCING SOURCES/(USES)				
Transfers in - from DSF Series 2018	289,777	352,766	408,255	86%
Total other financing sources/(uses)	289,777	352,766	408,255	86%
Net increase/(decrease) of fund balance	2,270,432	2,544,124	(2,039,000)	
Fund balance - beginning	13,266,420	12,992,728	9,580,392	
Fund balance - ending				
Assigned:				
3 months working capital	1,441,052	1,441,052	1,441,052	
Disaster recovery	3,000,000	3,000,000	3,000,000	
Truck replacement	114,000	114,000	114,000	
Unassigned	10,981,800	10,981,800	2,986,340	
Total fund balance - ending	\$15,536,852	\$ 15,536,852	\$ 7,541,392	

SUNSHINE WATER CONTROL DISTRICT STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES DEBT SERVICE FUND SERIES 2011 FOR THE PERIOD ENDED DECEMBER 31, 2020

	Current Month	Year To Date
REVENUES Total revenues	\$	\$ - -
EXPENDITURES Total expenditures		<u> </u>
Excess/(deficiency) of revenues over/(under) expenditures		
Fund balances - beginning Fund balances - ending	\$ 144	

SUNSHINE WATER CONTROL DISTRICT STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES DEBT SERVICE FUND SERIES 2018 FOR THE PERIOD ENDED DECEMBER 31, 2020

		Current Month	 Year To Date	Adopted Budget	% of Budget
REVENUES					
Assessment levy: on-roll	\$	625,831	\$ 761,868	\$ 916,037	83%
Interest			2		N/A
Total revenues		625,831	 761,870	 916,037	83%
EXPENDITURES					
Debt service					
Interest		-	280,440	531,668	53%
Total debt service		-	280,440	531,668	53%
Other fees and charges					
Tax collector		6,258	7,618	9,542	80%
Property appraiser		6,258	7,618	9,542	80%
Total other fees and charges		12,516	 15,236	 19,084	80%
Total expenditures		12,516	295,676	550,752	54%
Excess/(deficiency) of revenues					
over/(under) expenditures		613,315	466,194	365,285	128%
OTHER FINANCING SOURCES/(USES)					
Transfers (out) - to GF		(289,777)	(352,766)	(408,255)	86%
Total other financing sources/(uses)		(289,777)	(352,766)	(408,255)	86%
Net increase/(decrease) in fund balance		323,538	113,428	(42,970)	
Fund balances - beginning		77,322	287,432	264,985	
Fund balances - ending	\$	400,860	\$ 400,860	\$ 222,015	
3	<u> </u>		 ,	 ,	

SUNSHINE

Water Control District Special Assessment Revenue Improvement Bonds, Series 2018 \$11,685,000

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I
11/01/2020		-	280,440.00	280,440.00
05/01/2021		4.800%	251,227.50	251,227.50
11/01/2021		-	222,015.00	222,015.00
05/01/2022		4.800%	222,015.00	222,015.00
11/01/2022		-	222,015.00	222,015.00
05/01/2023	430,000.00	4.800%	222,015.00	652,015.00
11/01/2023		-	213,845.00	213,845.00
05/01/2024	450,000.00	4.800%	213,845.00	663,845.00
11/01/2024		-	205,295.00	205,295.00
05/01/2025	465,000.00	4.800%	205,295.00	670,295.00
11/01/2025		-	196,460.00	196,460.00
05/01/2026	480,000.00	4.800%	196,460.00	676,460.00
11/01/2026		-	187,340.00	187,340.00
05/01/2027	500,000.00	4.800%	187,340.00	687,340.00
11/01/2027		-	177,840.00	177,840.00
05/01/2028	520,000.00	4.800%	177,840.00	697,840.00
11/01/2028		-	167,960.00	167,960.00
05/01/2029	540,000.00	4.800%	167,960.00	707,960.00
11/01/2029		-	157,700.00	157,700.00
05/01/2030	560,000.00	4.800%	157,700.00	717,700.00
11/01/2030		-	147,060.00	147,060.00
05/01/2031	580,000.00	4.800%	147,060.00	727,060.00
11/01/2031		-	136,040.00	136,040.00
05/01/2032	600,000.00	4.800%	136,040.00	736,040.00
11/01/2032		-	124,640.00	124,640.00
05/01/2033	625,000.00	4.800%	124,640.00	749,640.00
11/01/2033		-	112,765.00	112,765.00
05/01/2034	650,000.00	4.800%	112,765.00	762,765.00
11/01/2034		-	100,415.00	100,415.00
05/01/2035	675,000.00	4.800%	100,415.00	775,415.00
11/01/2035		-	87,590.00	87,590.00
05/01/2036	695,000.00	4.800%	87,590.00	782,590.00
11/01/2036		-	74,385.00	74,385.00
05/01/2037	730,000.00	4.800%	74,385.00	804,385.00
11/01/2037		-	60,515.00	60,515.00
05/01/2038	750,000.00	4.800%	60,515.00	810,515.00
11/01/2038		-	46,265.00	46,265.00
05/01/2039	780,000.00	4.800%	46,265.00	826,265.00
11/01/2039		-	31,445.00	31,445.00
05/01/2040	810,000.00	4.800%	31,445.00	841,445.00
11/01/2040		-	16,055.00	16,055.00
05/01/2041	845,000.00	4.800%	16,055.00	861,055.00
Total	\$11,685,000.00	-	\$5,906,957.50	\$17,591,957.50

DRAFT

1 2		ES OF MEETING TER CONTROL DISTRICT						
3 4	The Board of Supervisors of the Sunshine Water Control District held a Regular							
5	Meeting on January 13, 2021, at 6:30 p.m., at La Quinta Inn Coral Springs, 3701 N.							
6	University Drive, Coral Springs, Florida 330							
7	oe., oe, og,g,g	,,,,						
8	Present were:							
9								
10	Joe Morera	President						
11	Ivan Ortiz	Vice President						
12	Daniel Prudhomme	Secretary						
13								
14								
15	Also present were:							
16								
17	Cindy Cerbone	District Manager						
18	Daniel Rom	Wrathell, Hunt and Associates, LLC (WHA)						
19	Al Malefatto	District Counsel						
20	Orlando Rubio	District Engineer						
21	Steve Smith	Craig A. Smith & Associates, Inc. (CAS)						
22	Cory Selchan	Field Superintendent						
23	John McKune (via telephone)	Consultant Engineer						
24	com mename (ma corepment)	23.104.144.17						
25								
26	FIRST ORDER OF BUSINESS	Call to Order						
27								
28	Mr. Morera called the meeting to o	order at 6:31 n m						
20	wii. Worerd caned the meeting to	7 del de 0.31 p.m.						
29								
30	SECOND ORDER OF BUSINESS	Roll Call						
31								
32	All Supervisors were present, in pe	rson.						
	о арог того р. сос, ро							
33								
34	THIRD ORDER OF BUSINESS	Pledge of Allegiance						
35								
36	All present recited the Pledge of Al	legiance.						
37								
38 39 40	FOURTH ORDER OF BUSINESS	Public Comments [3-Minute Time Limit]						

41	There were no public comments.
42	■ District Manager: Wrathell, Hunt & Associates, LLC
43	This item, previously Item 9E, was presented out of order.
44	Ms. Cerbone stated that resident Milton Polo reported instances of motor bikes
45	trespassing along the right-of-way (ROW) behind his and his neighbors residences
46	Discussion ensued regarding when and the frequency of the incidents and suggesting that
47	the resident install cameras to provide evidence to the Police. Staff was directed to send the
48	annual letter to the Police Chief requesting continued monitoring of the area.
49	■ District Engineer: Craig A. Smith & Associates
50	I. Presentation: Monthly Engineer's Report
51	This item, previously 9BI, was presented out of order.
52	Mr. Rubio reported the following:
53	► Electrical Engineering Design Plans: CAS expected to receive the 60% redesign plans
54	for Pump Stations 1 and 2 from Mr. Larry Smith, at the end of the week. The plans would
55	be distributed upon receipt, before scheduling a meeting with Staff to review the plans.
56	> The Board previously approved proceeding with the 60% plan, in coordination with
57	input from Mr. Selchan and Staff.
58	250 horsepower was selected for the Pump Station 2 motors.
59	Mr. McKune joined the meeting via telephone.
60	Mr. Ortiz asked for a copy of the scope of work and an Outlook calendar invite to
61	attend the next meeting with Mr. Larry Smith.
62	 Permit Applications – No Permits to be Submitted This Month
63	Permitting: Crown Castle was reviewing the recommendations to address non
64	compliance installations. This item should be presented for approval at the next meeting.
65	II. Update: Interim Water Control Plan Incorporating New Costs from Radise
66	International, L.C., Information
67	This item, previously Item 9BII, was presented out of order.
68	Mr. Rubio presented the revised Interim Water Control Plan and budget, which
69	included updated costs and designs from Radise International, L.C. (Radise) for each cana

crossing. He recommended proceeding with the Figure 1, Partial Canal Improvement (PCI,) approach, as it was the most cost-effective option.

Mr. Larry Smith and Mr. Rubio discussed the method and the flow and cost differences between Figures 1 and 2. Mr. Selchan voiced his opinion that the option selected should not be based on cost alone; rather, it should be on sound engineering, as the improvements must be able to continue feeding water to the Pump Station so it does not cut off when levels are low. Discussion ensued regarding the budget, rearranging the order of upcoming projects, not divulging the budgeted amount when going out to bid and advertising a Request for Qualifications (RFQ) for design build for the bridge, so the Contractor can oversee the Engineers involved.

III. PS1 and PS2 Electrical Engineering Design Update

This item, previously Item 9BIII, was presented out of order.

Mr. McKune asked if the structural portion for the Pump Station 2 electrical unit was finalized. Mr. Steve Smith stated that Mr. Larry Smith believed it could work within the confines of the existing building. Some items may have to be relocated outside but he would not know until he can review the plans.

Ms. Cerbone asked about items for the upcoming agenda. Mr. Steve Smith stated he would provide recommendations, once he reviews Mr. Larry Smith's design, and input new data in the model to reevaluate it based on the recommendations. He planned to present the cost/performance benefit analysis table of all options and phases and submit the RFQ and bids to consolidate projects. Mr. Morera asked that Staff continue vetting projects before presenting recommendations to the Board.

Mr. McKune asked if there was a resolution on what to do with the parking lot. There was no resolution, so it would be considered as Phase 4.

FIFTH ORDER OF BUSINESS

Acceptance of Unaudited Financial Statements as of November 30, 2020

Mr. Rom presented the Unaudited Financial Statements as of November 30, 2020.

133 134	Α.	District Counsel: <i>Lewis, Longman</i>	& Walker, P.A.
132	NINTI	H ORDER OF BUSINESS	Staff Reports
131			
130	every	one to carry on with improvement	of the District in 2021.
129	hoped	d 2021 would give everyone more p	eace, tranquility and balance in life. He encouraged
128	him tl	hat the process went smoothly an	d was well organized. As 2020 was challenging, he
127	to rec	eive the COVID-19 vaccine would r	receive it soon, and stated that friends conveyed to
126		Mr. Morera wished everyone a ha	appy and healthy new year. He hoped those eligible
125		Mr. Ortiz hoped everyone had a s	afe and happy new year.
124	great	2021.	
122 123		Mr. Prudhomme hoped everybo	dy had a wonderful new year and wished them a
120 121	EIGHT	TH ORDER OF BUSINESS	Supervisors' Communications
118 119		There being no public comments,	the next item followed.
116 117	SEVEN	NTH ORDER OF BUSINESS	Public Comments
114 115		approved.	
112 113		<u> </u>	ne and seconded by Mr. Ortiz, with all in gular Meeting Minutes, as amended, were
110111		Line 23: Delete "(via telephone)"	
109	cnang	ge was made:	
108		·	er 9, 2020 Regular Meeting Minutes. The following
105 106 107	SIXTH	ORDER OF BUSINESS	Approval of December 9, 2020 Regular Meeting Minutes
103 104			
102		accepted.	
100 101		_	tatements as of November 30, 2020, were

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Mr. Malefatto distributed a letter from the City of Coral Springs indicating that the
Broward County Legislative Delegation Organization approved the proposed Bill related to
special districts, introduced by Representative Dan Daley, a former City Commissioner. He
discussed the details, which, if approved by the Legislature, would take effect November
2024. The Coral Springs Improvement District engaged his firm to lobby against the Bill and
the North Springs Improvement District engaged a lobbyist to fight against it.

Mr. Morera discussed proposed changes affecting Supervisors running for office and stated that, during the Commission meeting, he asked the City to correct the District's name from "Sunshine Drainage District" to "Sunshine Water Control District", as the name was officially changed in 1978. Mr. Malefatto stated he would mention suggesting a Supervisor Fee cost of living adjustment to Mr. Lewis and Mr. Ryan.

- B. District Engineer: Craig A. Smith & Associates
- I. Presentation: Monthly Engineer's Report
 - Permit Applications No Permits to be Submitted This Month
- 149 II. Update: Interim Water Control Plan Incorporating New Costs from Radise
 150 International, L.C., Information
- 151 III. PSI and PS2 Electrical Engineering Design Update
- These items were presented following the Fourth Order of Business.
- 153 C. District Engineering Consultant: John McKune
- 154 There being no report, the next item followed.
- 155 D. District Field Supervisor: Cory Selchan
- 156 Mr. Selchan reported the following:
- 157 > Very little rainfall was reported this month; however, the 2020 annual rainfall was
- 158 93.1", which was a record amount, as the District typically averages 60" to 75".
- Daily operations continue to proceed without any issues.
- 160 A few employees missed work due to COVID-19. Most employees were affected by 161 it in some way.
- 162 E. District Manager: Wrathell, Hunt & Associates, LLC
- 163 Mr. Rom stated that Staff would present a proposed COVID-19 policy for 2021, at 164 the next meeting. Mr. Malefatto explained that the legislation entitling employees up to 80

additional hours of COVID related sick leave expired December 31, 2020; however, private and public sectors could extend the benefit to employees and can continue as long as the Florida Governor's Emergency Order remains in effect. His firm was researching legislation to determine whether the District was exempt from withholding social security tax. Discussion ensued regarding adding a cap to the policy on compensating employees and requiring employees to use their sick or vacation time. When disability/workman's compensation policies go into effect and how benefits are accrued was discussed. The proposed COVID-19 policy to be presented at the next meeting should include a breakdown of the Employee Manual's current sick and vacation time policy.

I. **Discussion: Obstruction Removals and Subsequent Events**

Mr. Selchan stated that, aside from the report on the motorbike incident at the East Outfall Canal, he would provide recommendations for addressing obstructions in the ROW. Issues at the West Outfall Canal need to be addressed, as residents have encroached far into the ROW. Notice of Violation letters would be prepared and presented at the next meeting. The letters would outline the steps that the District would take if the property owner fails to take action and would include a deadline. The letters would be sent Certified Mail, with a copy forwarded to the appropriate party at the City of Coral Springs

II. NEXT MEETING DATE: February 10, 2021 at 6:30 P.M.

QUORUM CHECK

The next meeting will be held on February 10, 2021.

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TENTH ORDER OF BUSINESS

Adjournment

There being no further business to discuss, the meeting adjourned.

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On MOTION by Mr. Ortiz and seconded by Mr. Prudhomme, with all in favor, the meeting adjourned at 8:39 p.m.

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196 197 [SIGNATURES APPEAR ON THE FOLLOWING PAGE]

198		
199		
200		
201		
202		
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204		
205	Secretary/Assistant Secretary	President/Vice President

DRAFT

January 13, 2021

SUNSHINE WATER CONTROL DISTRICT

CRAIG A. SMITH & ASSOCIATES



21045 Commercial Trail · Boca Raton, FL 33486

CONSULTING ENGINEERS + SURVEYORS + UTILITY LOCATORS

www.craigasmith.com

February 3, 2021

Board of Supervisors Sunshine Water Control District 2300 Glades Road, Suite 410W Boca Raton, Florida 33073

RE: SUNSHINE WATER CONTROL DISTRICT
MONTHLY ENGINEER'S REPORT (MER) (February 10, 2021)
January 6, 2021 – February 3, 2021
CAS PROJECT NO. 15-1826

Dear Board of Supervisors:

Craig A. Smith & Associates, Inc. (CAS) is pleased to provide you with the MER summarizing activity performed by this office on behalf of SWCD during the referenced period including future work. Anything of significance occurring after this writing will be brought up at the February 10, 2021 BOS meeting.

Electrical Engineering Services for Pump Station 1 and Pump Station 2

CAS has been coordinating with Larry Smith, PE from SEC regarding status of the electrical engineering (EE) design plans. The EE plans for PS1 & PS2 are at 60% and have been submitted to SWCD team members which followed team virtual meeting with Supervisor Ivan Ortiz in attendance on 1.20.2021. The meeting went well with input from everyone and the following items were discussed.

- SEC-Larry Smith provided 60% percent plans for the discussion and the group was in agreement the plans are at 60%.
- Larry requested a follow-up field visit to both stations which has been tentatively scheduled for 2.5.2021 at 9:30 AM.
- Minor edits to notes on plans will be provided.
- Concrete pads (4" thick) to be used to support new panels; same to be provided for spare motor at each station.
- A "quick-connect" to be provided at each station for portable generator.
- Project(s) is to be bid as a lump sum price contract but schedule of values may be provided by SEC for guidance.
- 5 day fuel run time (or as close as possible) was suggested by Cory.
- As shown on the plans, pump motor HP is called out to be 200 HP and 250 HP for PS1 and PS2, respectively.

SUNSHINE WATER CONTROL DISTRICT MER (February 10, 2021 Agenda)
Page | 2

The EE plans are made part of this month's report for the BOS records.

West Outfall Canal and Bridge Approach for discussion

Right-of-Way (ROW) Permitting

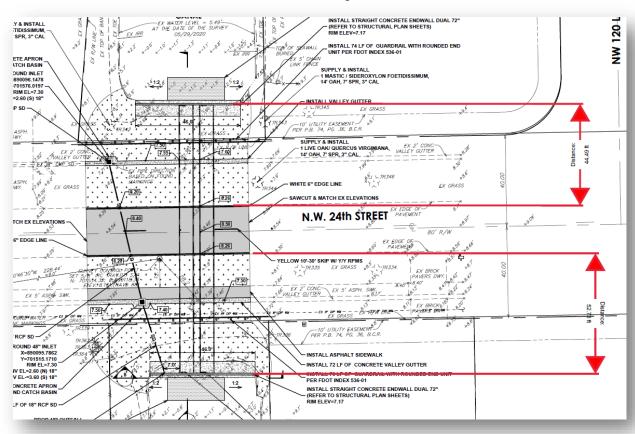
A ROW permit application submitted by Broward County proposes a directional bore of 4-2" conduits along the upland canal bank, bridge mounted installation of 4-2" conduits, and installation of four (4) total fiber optic pull boxes located on the upland canal bank. The proposed work will be located on the south right-of-way of Atlantic Blvd (bridge) crossing the West Outfall Canal and East Outfall Canal. The applicant has met SWCD applicable criteria and we recommend that the SWCD Board of Supervisors issue a ROW Permit.

City of Coral Springs - NW 24th St Culvert Upgrade

The City has made progress with the plans to replace and upsize this culvert crossing. As such, a ROW permit is in for review and SWCD/CAS is coordinating with the City and Chen Moore & Associates (CMA) on the review. The City has been asked to revisit the installation of guardrails in order to not impede SWCD's maintenance access as this was discussed on a few occasions. City standard requires a guardrail if the distance between edge of pavement and the terminal stormwater pipe headwall is less than 50 feet. Upon further review of the plans, the south ROW has the distance to avoid the installation of the guardrail but the north ROW is 5 feet short (see Figure 1 – CMA Plans). The City/CMA were asked to provide the cost differential for this additional 5 feet of pipe in lieu of a guardrail for the BOS consideration.

Page | 3





We continue to look forward to working with the SWCD staff on current and future important projects. Should there be any questions, I can be reached at the letterhead numbers shown or by electronic mail at orubio@craigasmith.com.

Sincerely,

CRAIG A. SMITH & ASSOCIATES

Orlando A. Rubio, PE Sr. Supervising Engineer

Enclosures: EE Plans from SEC for PS1 & PS2, ROW Permit Recommendation for Broward County

cc: **SWCD** - Cory Selchan, John McKune, PE (via e-mail)

WHA - Cindy Cerbone, Debbie Tudor, Daphne Gillyard, Daniel Rom (via e-mail)

CAS - Steve C. Smith, PE, (via e-mail)

\cas-file\Projects\Districts\Sunshine_Water_Control\MONTHLY ENGINEERS REPORTS\2021 Monthly Engineer's Reports\2021-02\SWCD-MonthlyRpt-2021.02.03.docx

10BIIa

CRAIG A. SMITH & ASSOCIATES

21045 Commercial Trail · Boca Raton, FL 33486

CONSULTING ENGINEERS + SURVEYORS + UTILITY LOCATORS

www.craigasmith.com

January 25, 2021

Board of Supervisors Sunshine Water Control District 2300 Glades Road, Suite 410W Boca Raton, Florida 33073

RE: SWCD RIGHT-OF-WAY (ROW) PERMIT APPLICATION – West Outfall Canal & East Outfall Canal Broward County – Highway Construction & Engineering Division Project Site: Atlantic Blvd from Coral Springs Drive to State Road 7/US 441 CAS PROJECT NO. 15-1826

Dear Board of Supervisors:

We have reviewed a R/W permit application submitted by Broward County – Highway Construction and Engineering Division for directional bore of 4-2" conduits along the upland canal bank, bridge mounted installation of 4-2" conduits, installation of four (4) total fiber optic pull boxes located on the upland canal bank. The proposed work will be located on the south right-of-way of Atlantic Blvd (bridge) crossing the West Outfall Canal and East Outfall Canal. The applicant has met SWCD applicable criteria and we recommend that the SWCD Board of Supervisors issue a Right-of-Way Permit to the applicant, subject to the following Special Conditions to be made part of the Permit:

- 1. All work must be in compliance with the latest SWCD Permit Criteria Manual.
- 2. Permittee will ensure that all necessary Sediment & Erosion Control devices will be utilized at the SWCD right-of-way during construction.
- 3. A copy of Record As-builts and Engineer Certification shall be provided to SWCD upon completion of all work.
- 4. All applicable permits and approvals for Work shall be obtained.
- 5. SWCD shall be notified at least 48 hours prior to construction.

Sincerely,

CRAIG A. SMITH & ASSOCIATES

Kevin Nguyen, PE Project Manager

cc: BCHCED – Richard Tornese, PE (via-email)

WHA - Cindy Cerbone, Debbie Tudor, Daphne Gillyard, Daniel Rom (via e-mail)

SWCD – Cory Selchan, Field Superintendent (via e-mail)

CAS – Steven C. Smith, PE, Orlando A. Rubio, PE (via e-mail)

\cas-file\Projects\Districts\Sunshine_Water_Control\19-2064-1CP-SWCD Non recovery\01-RIGHT-OF-WAY\2021\15-1826-01AtlanticBlvd-FOC\04-Correspondence\02-Letters\SWCD-Atl Blvd FOC 2021.01.25.docx

954.782.8222 — 561.314.4445 — PHONE — 561.314.4453 — 305.940.4661 561.314.4458 — FAX — 561.314.4459

COMPONENTS OF CONTRACT PLANS SET

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

PUBLIC WORKS DEPARTMENT

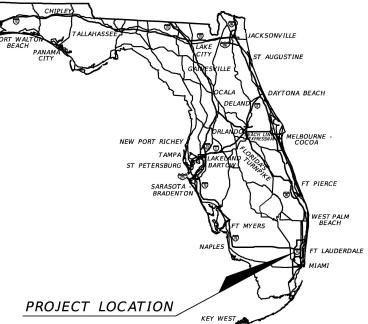
HIGHWAY CONSTRUCTION & ENGINEERING DIVISION

CONTRACT PLANS

BROWARD COUNTY PROJECT NO. FIBER003

ATLANTIC BOULEVARD FIBER OPTIC NETWORK IMPROVEMENTS

MARGATE



BEGIN PROJECT STA. 222+00

INTELLIGENT TRANSPORTATION SYSTEMS PLANS SHOP DRAWINGS TO BE SUBMITTED TO:

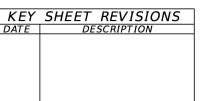
RICARDO J. GONZALEZ, P.E. METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224

PLANS PREPARED BY:

METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE, FLORIDA 32224

NOTE: THE SCALE OF THESE PLANS MAY

90% PLANS SEPTEMBER 24, 2020



INTELLIGENT TRANSPORTATION SYSTEMS ENGINEER OF RECORD: RICARDO J. GONZALEZ, P.E

P.E. NO.: 66564

SHEET YEAR NO.

INDEX OF ITS PLANS

SHEET NO.

1	KEY SHEET
2	SIGNATURE SHEET
3	TABULATION OF QUANTITIES
4	GENERAL NOTES
5	LEGEND
6	PROJECT LAYOUT
8, 15	PLAN SHEET
23 - 24	CANAL CROSSING DETAILS
25	DIRECTIONAL BORE AND TRENCHING DETAIL
26 - 27	PULL BOX AND CONDUIT DETAILS
28 - 30	SIGNAL CABINET DETAILS
31	LOGICAL DIAGRAM
32 - 38	SPLICING DIAGRAMS
39 - 40	STORMWATER POLLUTION PREVENTION PLAN
41	TRAFFIC CONTROL NOTES
42	TRAFFIC CONTROL TYPICALS

SHEET DESCRIPTION

END PROJECT STA. 8+00

GOVERNING STANDARDS AND SPECIFICATIONS:

All MOT and construction work performed in Broward County Right of Way shall be in accordance with the governing standards and specifications: Exhibit 25A, Broward County administrative code, Florida Department of Transportation 22020-2021 Standard Plans, and Standard Specifications for Road and Bridge Construction dated July 2020, as amended in the contract documents.

For Standard Plans click on the "Standard Plans" link at the following web site: http://www.fdot.gov/design/standardplans/

For the Standard Specifications for Road and Bridge Construction click on the "Specificationa" link at the following web site: http://www.fdot.gov/programmanagement/implemented/SpecBooks

LENGTH (OF PROJEC	T
	LINEAR FEET	MILES
ITS PROJECT LIMITS	21,500	4.072
NET LENGTH OF PROJECT	21,500	4.072
EXCEPTIONS	0	0.00
GROSS LENGTH OF PROJECT	21,500	4.072

LAUDERHILL

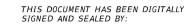
BROWARD COUNTY PROJECT MANAGER: CHRIS MASULLO

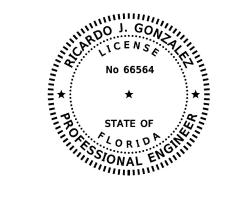
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HAVE CHANGED DUE TO REPRODUCTION.





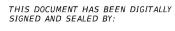
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED, THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 CERTIFICATE OF AUTHORIZATION 2294 RICARDO J GONZALEZ, P.E. NO. 66564

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INTELLIGENT TRANSPORTATION SYSTEM PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	TABULATION OF QUANTITIES
5	LEGEND
6	PROJECT LAYOUT
7 - 22	PLAN SHEET
23 - 24	CANAL CROSSING DETAILS
28 - 30	SIGNAL CABINET DETAILS
31	LOGICAL DIAGRAM
32 - 38	SPLICING DIAGRAMS





PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

HBC ENGINEERING COMPANY 13155 SW 134TH STREET, SUITE 207 MIAMI, FLORIDA 33186 CERTIFICATE OF AUTHORIZATION: 27160 JOSE A. LOPEZ, P.E. NO. 81014

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

TRAFFIC CONTROL PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4	GENERAL NOTES
25	DIRECTIONAL BORE AND TRENCHING DETAIL
26 - 27	PULL BOX AND CONDUIT DETAIL
39 - 40	STORMWATER POLLUTION PREVENTION PLAN
41	TRAFFIC CONTROL NOTES
42	TRAFFIC CONTROL TYPICALS

	REVISIONS
DATE	DESCRIPTION

RICARDO J. GONZALEZ, P.E. P.E. NO.: 66564 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE FLORIDA 32224



PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

CITY	ROADWAY	COUNTY PROJECT NO.
CORAL SPRINGS MARGATE	ATLANTIC BLVD	FIBER003

SHEET NO.

SIGNATURE SHEET

			SHEET NUMBERS													REF.								
PAY ITEM NO.	DESCRIPTION	UNIT		7		}	9	10		11		12		3	14		15		16		17		TOTAL	SHEET
77.1. 27. 1.0.	DESCRIPTION.		PLAN	FINAL	PLAN	FINAL	PLAN FINAL		L PLAN		 	_	_			FINAL		FINAL	_	FINAL		FINAL	PLAN FINAL	+
101-1	MOBILIZATION	LS																						
102-1	MAINTENANCE OF TRAFFIC	LS																						
110-1-1	CLEARING & GRUBBING	LS																						
339 - 1	MISCELLANEOUS ASPHALT PAVEMENT	TN			0.3																		0.3	
515-1-42	PIPE HANDRAIL - GUIDERAIL, RELOCATE, ALUMINUM	LF																						
515-2-500	PEDESTRIAN / BICYCLE RAILING, RELOCATE	LF																						
520 - 1 - 10	CONCRETE CURB & GUTTER, TYPE F	LF							3	0													30	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	5.2		4.2			9.2	18	2	9.9	9	7				6.9		5		6.5		72.1	
527 - 2	DETECTABLE WARNINGS	SF							3	0													30	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF			14			8	2	6	18	3											66	
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	799		1357		1441	1582	14:	1	1393	3	1453		1443		1272		1440		1441		15032	
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF			76																		76	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	273					355	6	6	60)	60		73	!	77				80		1044	
633-1-123	FIBER OPTIC ARMORED CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	786		1597		1491	1855	166	51	1780)	1703		1693	!	1737		1490		1641		17434	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	8					16		8	8	3	8		8		8				8		72	
633-3-11	FIBER OPTIC CONNECTION HARDWARE F&I, SPLICE ENCLOSURE	EA	1					2		1	1	1	1		1	1	1				1		9	
633-3-12	FIBER OPTIC CONNECTION HARDWARE F&I, SPLICE TRAY	EA						2		1	1	1	1		1		1				1		9	
633-3-16	FIBER OPTIC CONNECTION HARDWARE F&I, PATCH PANEL-FIELD TERMINATED	EA						2		1	1	1	1		1		1				1		9	
633-8-4	MULTI-CONDUCTOR COMMUNICATION CABLE, RELOCATE	LF							<u>.</u>	0													50	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	1					4		1	1	1											7	
635-2-12	PULL BOX, F&I, 24" X 36" COVER SIDE, 36" DEEP	EA	2		3		1	2		1	2	2	1		1	1	3		i				17	
635 - 2 - 13	SPLICE BOX, F&I, 30" X 48" COVER SIDE, 36" DEEP	EA						2		1	1	1	1		1		1				1		9	
635-2-60	PULL BOX, REMOVAL	EA	3					8		4	3	3	2		2		3		1		1		27	
676 - 1 - 600	TRAFFIC SIGNAL CONTROLLER CABINET, REMOVE	EA						1															2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF																						
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																						

										SHEET	NUMBERS							Τ0.	TAL	GRAND TOTAL	REF.			
PAY ITEM NO.	DESCRIPTION	UNIT	18		19	20		21		22									Τ		TOTAL		GRAND TOTAL	SHEET
			PLAN	FINAL	PLAN FINAL	PLAN FINA	AL PLA	V FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN FINA	
101-1	MOBILIZATION	LS																					1	
102 - 1	MAINTENANCE OF TRAFFIC	LS																					1	
110-1-1	CLEARING & GRUBBING	LS																					1	
339 - 1	MISCELLANEOUS ASPHALT PAVEMENT	TN																					0.3	
515-1-42	PIPE HANDRAIL - GUIDERAIL, RELOCATE, ALUMINUM	LF			12																12		12	
515-2-500	PEDESTRIAN / BICYCLE RAILING, RELOCATE	LF			11																11		11	
520 - 1 - 10	CONCRETE CURB & GUTTER, TYPE F	LF			28																28		58	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	5Y	11.5		29.8	12.2		17	3.2	2											73.7		145.8	
527 - 2	DETECTABLE WARNINGS	SF			36																36		66	
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF			16	8			14	1											38		104	
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	1443		1285	1443	14	43	499											6113		21145		
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF																		76				
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	147		66	72													<u> </u>	285		1329		
633-1-123	FIBER OPTIC ARMORED CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	1843		1793	1693	1.5	93	875	875											7797		25231	
	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	16		8	8			4	1													72	
	FIBER OPTIC CONNECTION HARDWARE F&I, SPLICE ENCLOSURE	EA	2		1	1														<u> </u>			9	
633-3-12	FIBER OPTIC CONNECTION HARDWARE F&I, SPLICE TRAY	EA	2		1	1														<u> </u>	4		13	
633-3-16	FIBER OPTIC CONNECTION HARDWARE F&I, PATCH PANEL-FIELD TERMINATED	EA	2		1	1														<u> </u>	4	ļ	13	
633-8-4	MULTI-CONDUCTOR COMMUNICATION CABLE, RELOCATE	LF																					50	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA			2																2		9	
635-2-12	PULL BOX, F&I, 24" X 36" COVER SIDE, 36" DEEP	EA			3	1		3		1											8		25	
635-2-13	SPLICE BOX, F&I, 30" X 48" COVER SIDE, 36" DEEP	EΑ	2		1	1															4		13	
635-2-60	PULL BOX, REMOVAL	EA	2		4	1		2													9		36	
676 - 1 - 600	TRAFFIC SIGNAL CONTROLLER CABINET, REMOVE	EA																					2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF			1059																1059		1059	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF			353																353		353	

PAY-ITEM NOTES:

- 1. PAY ITEM 635-2-60: INCLUDES ALL LABOR AND MATERIALS FOR THE REMOVAL OF EXCAVATED MATERIALS, EXISTING B.P.B., ANY ASSOCIATED CONCRETE PAD, AND COPPER CABLES, AS WELL AS BACKFILLING AND RESTORATION OF THE CONSTRUCTION AREA TO A CONDITION EQUAL OR BETTER THAN EXISTING.
- 2. PAY ITEM 676-1-600: INCLUDES ALL LABOR AND MATERIALS FOR THE REMOVAL OF EXCAVATED MATERIALS, EXISTING JUNCTION CABINET, ANY ASSOCIATED CONCRETE PAD, AND COPPER CABLES, AS WELL AS BACKFILLING AND RESTORATION OF THE CONSTRUCTION AREA TO A CONDITION EQUAL OR BETTER THAN EXISTING.

	REVISIONS
DATE	DESCRIPTION

RICARDO J. GONZALEZ, P.E. P.E. NO.: 66564 METRIC ENGINEERING, INC. 11760 MARCO BEACH DRIVE, SUITE 1 JACKSONVILLE FLORIDA 32224

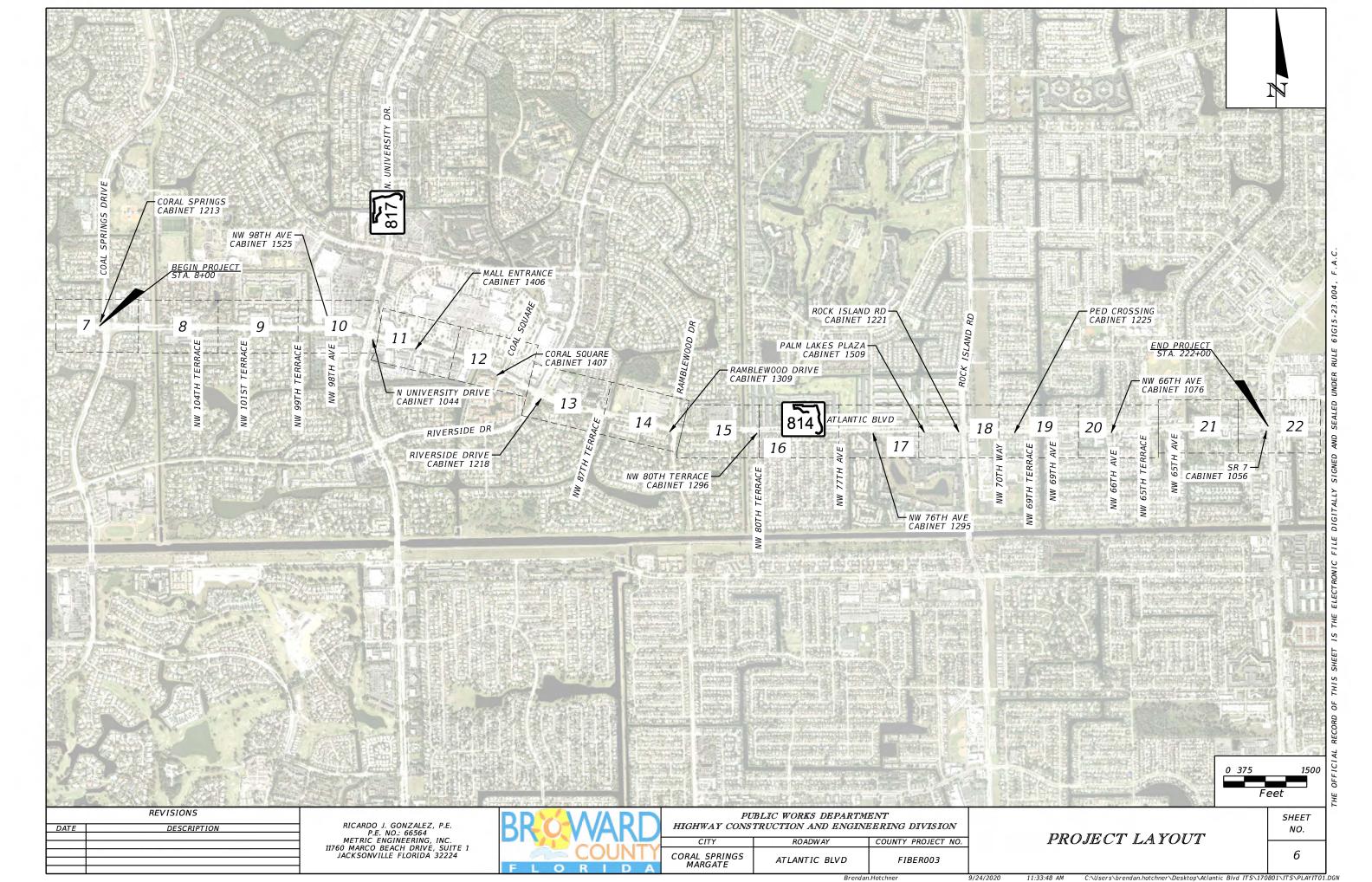


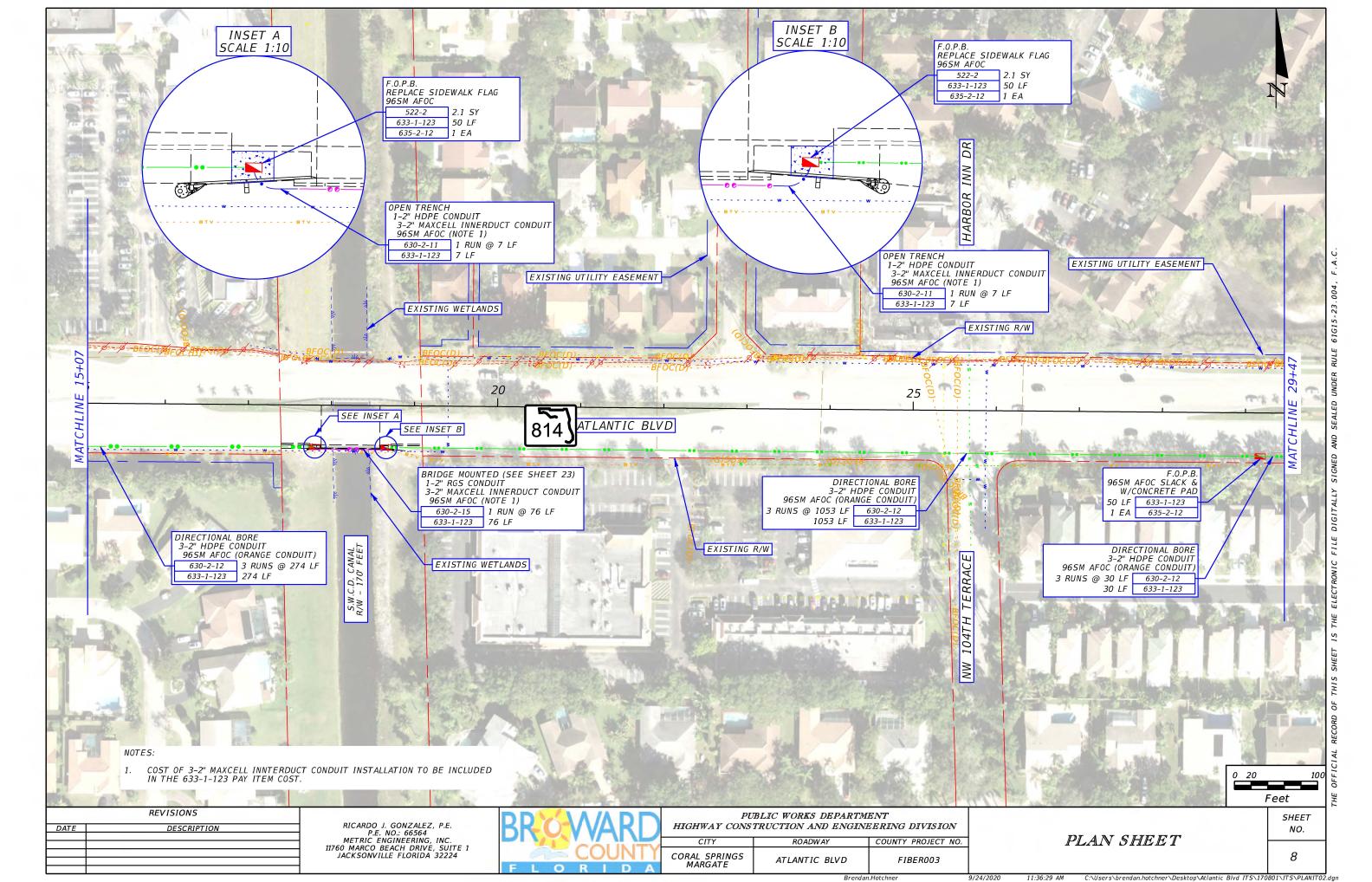
PUBLIC WORKS DEPARTMENT HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

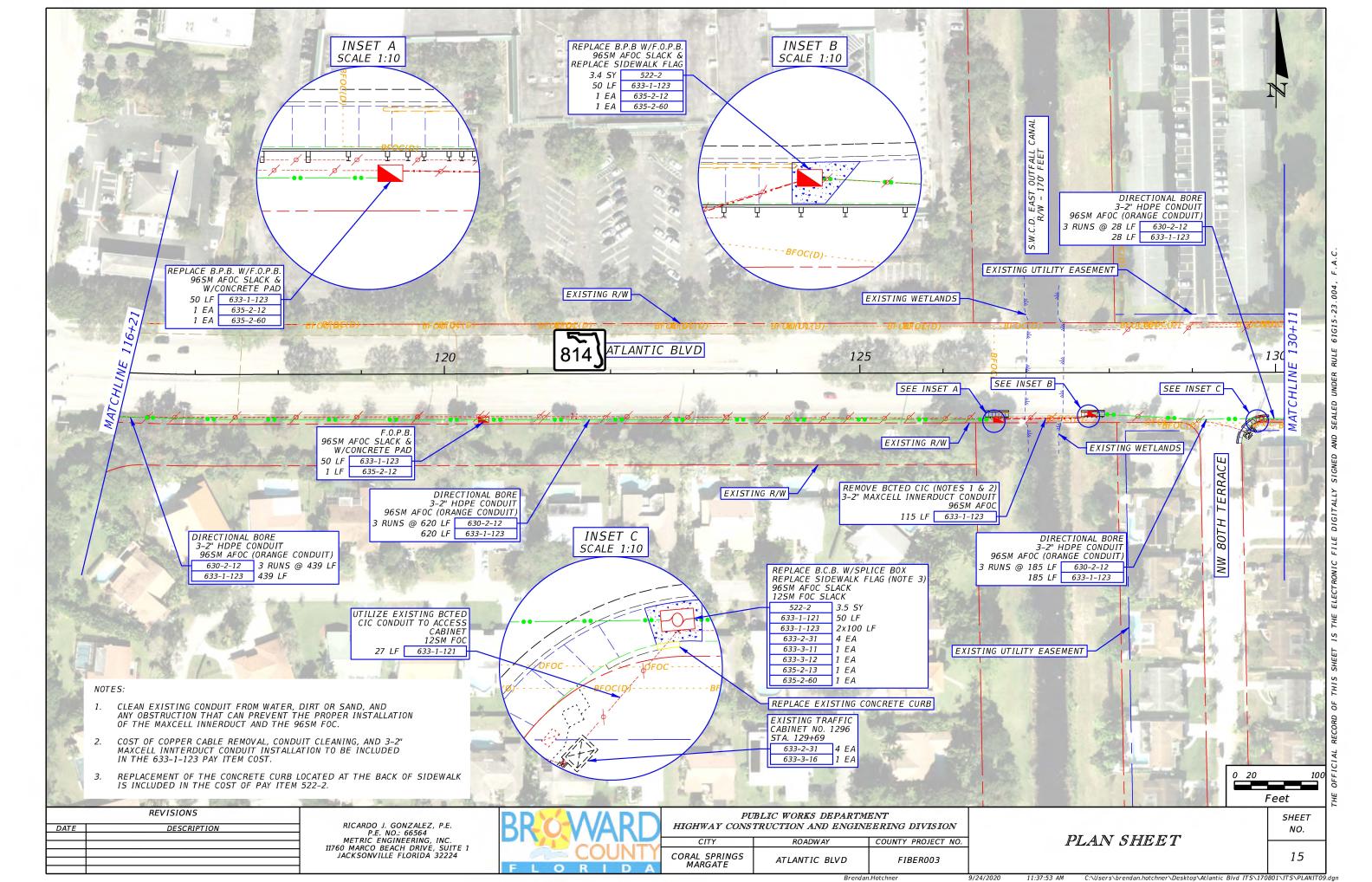
CITY ROADWAY COUNTY PROJECT NO. CORAL SPRINGS MARGATE ATLANTIC BLVD FIBER003

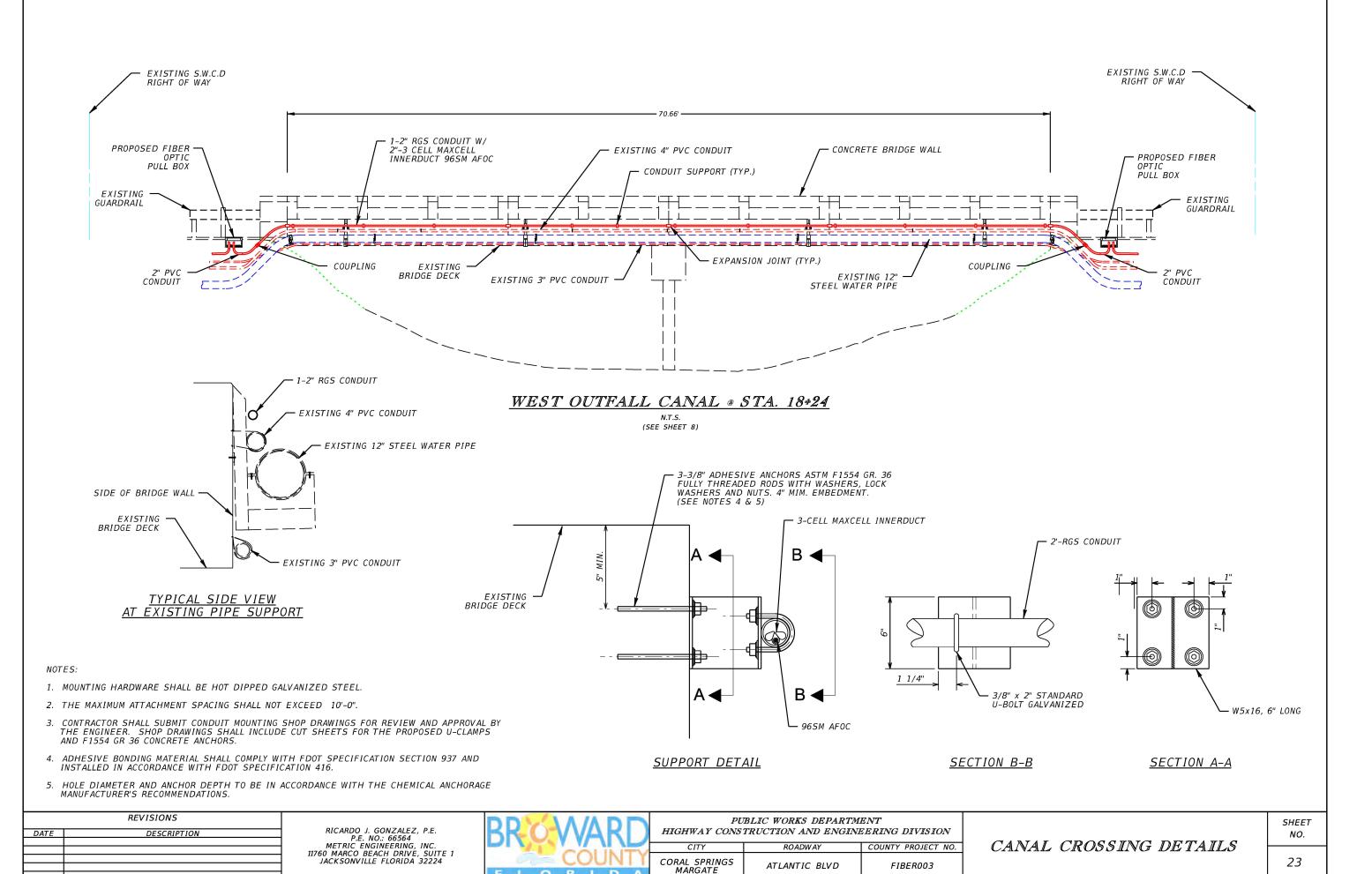
NO.

TABULATION OF QUANTITIES

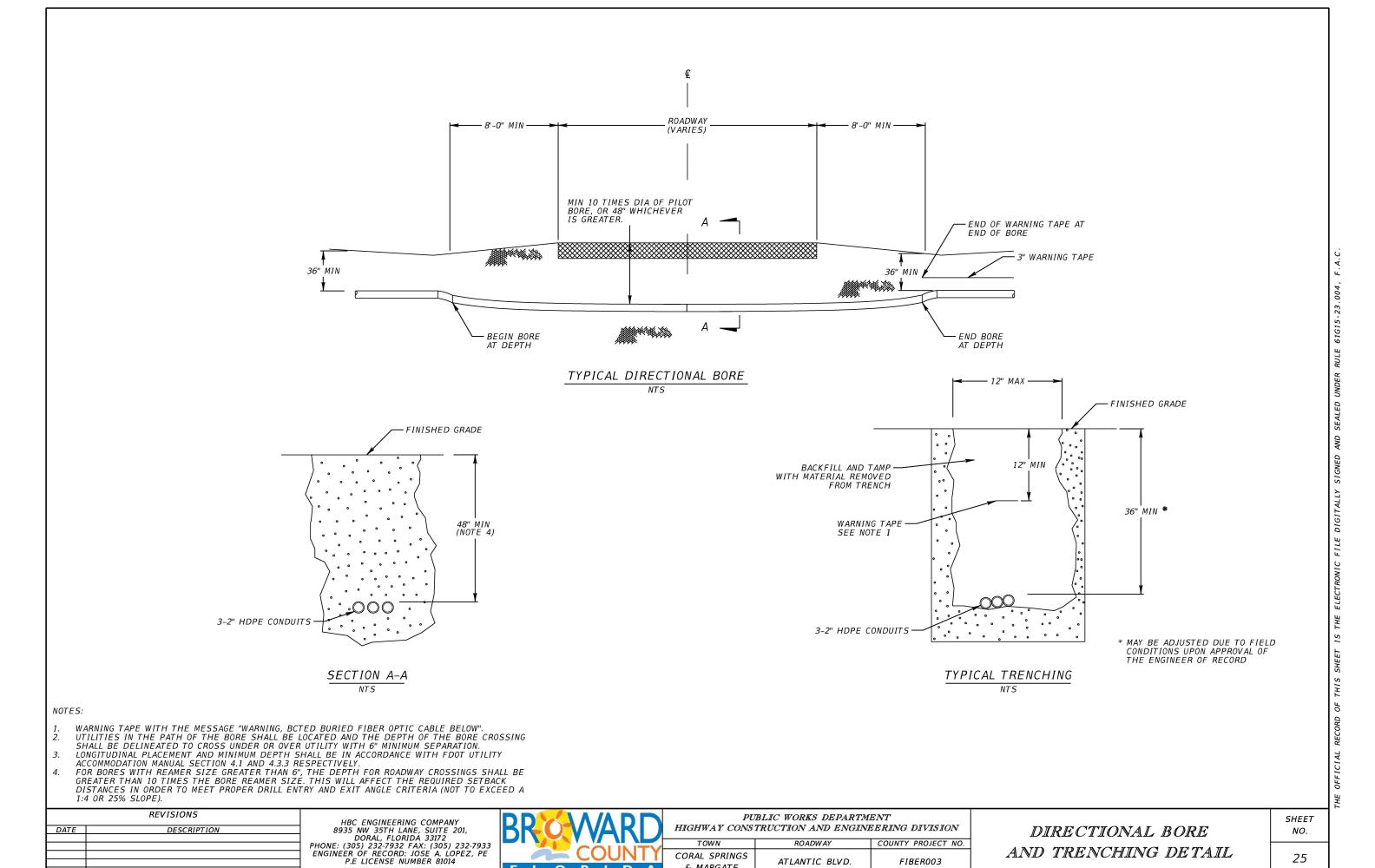








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CORAL SPRINGS

& MARGATE

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FIBER003

ATLANTIC BLVD.

25

ELECTRICAL LEGEND SYMBOL DESCRIPTION SYMBOL **DESCRIPTION** ANTENNA MAST AND ANTENNA OR CONNECTION POINT TRANSFORMER. VOLTAGES. PHASE AND TO EQUIPMENT RATING INDICATED AS APPLICABLE $\overline{\infty}$ INDICATES RACEWAY AND CIRCUIT CONDUCTORS. FIRST 1"C,2#12,1#12G 1"C,1-25/C TYPE 1 NUMBER IS RACEWAY SIZE. THE FOLLOWING NUMBERS 15 KVA ARE THE CONDUCTOR QUANTITIES, SIZES, AND TYPES. 1 PH MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME MCC-A PUSH-BUTTON SWITCH, MOMENTARY CONTACT OR IDENTIFYING SYMBOL AS SHOWN. NORMALLY OPEN MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER 5 PUSH-BUTTON SWITCH, MOMENTARY CONTACT INDICATED NORMALLY CLOSED \odot ──□---||---□── REMOTE DEVICE GROUND ROD SELECTOR SWITCH: MAINTAINED CONTACT WITH H O AWALL SWITCH: 2- DOUBLE POLE P- PILOT LIGHT CONTACT POSITION INDICATED, CHART IDENTIFIES 3- THREE WAY K- KEY OPERATED X00 **OPERATION** 4- FOUR WAY D- DIMMER POSITION WP-WEATHERPROOF CRE-CORROSION 2 00X CKT. HAND OFF AUTO RESISTANT X — CLOSED CONTACT O — OPEN CONTACT MANUAL MOTOR STARTER SWITCH, NEMA 4X UNLESS S_{M} OTHERWISE NOTED. NUMBER OF POLES AS REQUIRED **YCX** INDICATING LIGHT - LETTER INDICATES COLOR YARD CONDUIT X A - AMBER G - GREEN B - BLUE R – RED CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED C – CLEAR W - WHITE OTHERWISE PUSH TO TEST AND CONNECT INDICATING LIGHT WP-WEATHERPROOF C- CLOCK HANGER CRE-CORROSION RESISTANT TL- TWIST LOCK **ABBREVIATIONS** TELEPHONE RECEPTACLE (OUTLET BOX, 18" AFF) DESCRIPTION **ABBREVIATIONS** DESCRIPTION **ABBREVIATIONS** W - WALL MOUNTED, 48" AFF MAIN DISTRIBUTION PANEL ABOVE FINISHED FLOOR **AFF** MOTOR HEATER, MANHOLE GENERAL CONTROL OR WIRING DEVICE. NEMA 4X BC BYPASS CONTACTOR MAIN LUGS ONLY ENCLOSURE UNLESS INDICATED OTHERWISE. LETTER MLO CONDUIT, CONTACTOR MOTOR STARTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE. CIRCUIT BREAKER MANUFACTURER SUPPLIED CABLE CIRCUIT CKT MOTOR TEMPERATURE DETECTOR NONFUSED DISCONNECT SWITCH, SIZE INDICATED, COMBINATION MOTOR STARTER CMS 3 POLE UNLESS INDICATED OTHERWISE. NEUTRAL CPT CONTROL POWER TRANSFORMER NORMALLY CLOSED CR CONTROL RELAY 60/40 F NATIONAL ELECTRIC FUSED DISCONNECT SWITCH, SIZE INDICATED NEMA CURRENT TRANSFORMER MANUFACTURER'S (60/40, 60 = SWITCH RATING: 40 = FUSE RATING)CP CONTROL PANEL ASSOCIATION 3 POLE UNLESS INDICATED OTHERWISE. ELAPSED TIME METER ETM NORMALLY OPEN MAGNETIC STARTER, NEMA SIZE INDICATED, EXST **EXISTING** NTS NOT TO SCALE FUSE SEE CONTROL SCHEMATIC DIAGRAM. OVERLOAD RELAY FLOW INDICATOR OHE OVERHEAD ELECTRICAL LINE COMBINATION (FUSE OR CIRCUIT BREAKER AS INDICATED) FLOW METER PULL BOX x - ENCLOSED DEVICE RATING FLOAT SWITCH **PHOTOCELL** y - NEMA ENCOSURE RATING FLOW TRANSMITTER PHASE PHASE MONITOR FUT FUTURE PANEL FULL VOLTAGE NON-REVERSING **FVNR** NONFUSED DISCONNECT SWITCH, SIZE INDICATED, POWER PANEL (480VAC) STARTER NEMA SIZE INDICATED, 3 POLE UNLESS INDICATED PRESSURE SWITCH GREEN, GROUND OTHERWISE. POLYVINYL CHLORIDE CONDUIT GALVANIZED GEN RIGID GALVANIZE STEEL **GENERATOR** CONTACT - NORMALLY OPEN WITH NEMA SIZE REMOTE TELEMETRY UNIT GFI GROUND FAULT INTERRUPTER RTU INDICATED OR COIL IDENTIFICATION AS APPLICABLE SUPPLY FAN **GFR** GROUND FAULT RELAY SPD SURGE PROTECTIVE DEVICE GND GROUND CONTACT - NORMALLY CLOSED WITH NEMA SIZE SSRVS SOLID STATE REDUCED GRS GALVANIZED RIGID STEEL INDICATED OR COIL IDENTIFICATION AS APPLICABLE VOLTAGE STARTER HH **HANDHOLE** STAINLESS STEEL HOA HAND/OFF/AUTO SOLENOID VALVE HOR HAND/OFF/REMOTE SWITCH HEATING, VENTILATING & AIR HVAC MAGNETIC STARTER WITH NEMA SIZE INDICATED **THERMOSTAT** CONDITIONING TERMINAL BOARD CIRCUIT BREAKER, MAGNETIC, 3 POLE UNLESS INTERRUPTING CAPACITY TIME DELAY RELAY INDICATED OTHERWISE. INSTRUMENTATION AND CONTROL 1 & C TERMINAL JUNCTION BOX INSTRUMENT PANEL THERMAL SWITCH CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, (PANELBOARD) TWISTED SHIELDED PAIR TRANSIENT VOLTAGE SURGE PROTECTION 400 3 POLE UNLESS INDICATED OTHERWISE. J, J-BOX JUNCTION BOX CIRCUIT BREAKER WITH CURRENT LIMITING FUSES. LIGHTING CONTACTOR TYPICAL TRIP AND FUSE RATING INDICATED, 3 POLE UNLESS LIGHTING PANEL (PANELBOARD) VOLTMETER, VOLT INDICATED OTHERWISE. LOCAL/REMOTE VARIABLE FREQUENCY DRIVE LIMIT SWITCH WEATHERPROOF - NEMA 4X FUSED SWITCH. SWITCH AND FUSE CURRENT RATING LEVEL TRANSMITTER 225 INDICATED, 3 POLE UNLESS INDICATED OTHERWISE. XFMR TRANSFORMER MAGNETIC CONTACTOR COIL OR MOTORIZED SWITCH - CURRENT RATING INDICATED, 3 POLE 100 MOTOR CONTROL CENTER UNLESS INDICATED OTHERWISE. MCP MOTOR CIRCUIT PROTECTION GROUND ROD •—|||I GENERAL 1ø, 3ø SINGLE PHASE OR 3 PHASE SYMBOL **DESCRIPTION** DEMOLITION TO BE REMOVED OR DELETED LINE WEIGHT

GENERAL NOTES AND SPECIFICATIONS:

- 1. THE SCOPE OF WORK IS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS, PRIMARILY CONSIST OF THE FOLLOWING: 1.A. REPLACE ALL 4-125HP PUMP MOTORS WITH NEW 200HP MOTORS COMPLETE IN PLACE.
- 1.B. PROVIDE AND INSTALL 4 NEW MOTOR STARTERS TO FEED NEW
- 1.C. REPLACE EXISTING 250AMP BREAKERS AT MCC BUCKETS WITH NEW 400AMP BREAKERS. RECONFIGURE MCC BUCKETS AS NECESSARY.
- 2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
- 3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL CODES, CITY CODES, PALM BEACH COUNTY CODES AND THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND SHALL COORDINATE HIS WORK WITH THE ENGINEER AND OWNER.
- 4. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
- 5. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
- 6. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED.
- 7. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- 8. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF A LIFT STATION ACCEPTANCE.
- 9. COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND VERIFY ALL OBSTRUCTIONS WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
- 10. ALL CONDUCTORS SHALL BE 600V, U.L. LISTED. POWER CABLES SHALL BE TYPE THHN/THWN IN DRY LOCATIONS EXCEPT FOR SIZES NO. 6 AND LARGER USE XHHW. INSTRUMENTATION CABLE SHALL BE TYPE B, #16 AWG TWISTED SHIELDED PAIR WITH DRAIN WIRE. ALL CONDUCTING MEDIA SHALL BE COPPER. NO ALUMINUM ALLOWED.
- 11. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS). PAINT ALL RGS CONDUITS AND SUPPORTS WITH 2 COATS OF ASPHALTUM PAINT TO 4" ABOVE GRADE.
- 12. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, CONTROLLERS AND PANELBOARDS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
- 13. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED EQUAL" BASIS.
- 14. ALL EXCAVATIONS FOR CONDUITS AND HANDHOLES SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
- 15. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
- 16. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION CONDUITS SHALL BE: <u>VOLTAGE</u> <u>DISTANCE</u> 480V

120V

1 FT

- 17. INSTRUMENTATION IS LOW VOLTAGE SIGNALS SUCH AS 4-20MA, TELEPHONE COMMUNICATION, POWER CONDUIT SHALL ONLY CROSS INSTRUMENTATION CONDUIT PERPENDICULARLY WITH 6" SEPARATION.
- 18. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE AND INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS) INCLUDING OWNER SUPPLIED AND USER-CHOICE PANELS. IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING
- 20. PROVIDE DUCT SEAL IN ALL EXISTING AND NEW CONDUITS INSIDE CONTROL PANEL, RTU AND JUNCTION BOX.
- 21. DEMOLISH ALL ITEMS AS INDICATED ON DRAWINGS. TURN OVER TO THE OWNER AT THE OWNER'S DISCRETION AND PROPERLY DISPOSE OF ALL DEMOLITION ITEMS NOT WANTED BY THE OWNER.
- 22. ALL INSTALLATION AND EQUIPMENT SHALL COMPLY WITH PALM BEACH COUNTY UPAP STANDARD. EXCEPT IF OTHERWISE SHOWN IN DRAWINGS.
- 23. ALL CONDUIT PENETRATIONS SHALL BE AT THE BOTTOM OF ANY ENCLOSURE. SIDE PENETRATION IS ONLY ALLOWED WHEN CONNECTING SURGE PROTECTIVE DEVICE (SPD) AND PANEL
- 24. ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
- 25. CONTRACTOR SHALL INCLUDE ALL COORDINATION WITH FPL AS NECESSARY FOR POWERING DOWN THE SERVICE FOR THE NEW SERVICE SWITCH INSTALLATION AND RE-ENERGIZING WHEN COMPLETE. DURING POWER OUTAGE, CONTRACTOR SHALL PROVIDE TEMPORARY GENERATOR POWER AS NEEDED FOR EQUIPMENT AND THE LIFT STATION.
- 26. CONTRACTOR SHALL, WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND RELATED FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED FOR THE DISTRIBUTION.
- 27. CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C405.7.4.2 OF THE 2014 FLORIDA BUILDING CODE - ENERGY CONSERVATION, INCLUDING ANY AMENDMENTS THERETO.



2161 Palm Beach Lakes Blvd., Suite 312 West Palm Beach, Florida 33409 (561) 616-3911 fax (561) 616-3912 www.smithengineeringconsultants.com

DATE REVISION

Date: 1/15/2021 SPH Designed: FR Drawn: **.** Checked:

APPROVED BY: LARRY M. SMITH, P.E. DATE

FLORIDA PROFESSIONAL ENGINEER NO. 45997

NEW

CRAIG A. SMITH & ASSOCIATES CONSULTING ENGINEERS-PLANNERS-SURVEYORS 21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 (561) 314-4445 CERTIFICATÉ. NO. LB0003110

EXISTING

PREPARED FOR: SUNSHINE WATER CONTROL DISTRICT PUMP STATION 1 **UPGRADES**

PUMP STATION No.1 IMPROVEMENTS ELECTRICAL GENERAL NOTES AND **LEGEND**

FILE NAME: S20035-E-1.0.dwg LAST SAVED: 01/15/21 - 6:03pm

CAS PROJECT NUMBER

E-1.0

SHEET

KEYED NOTES

- 1 REFER TO KEY NOTE 3 ON SHEET E-3.0.
- 2 PROVIDE AND INSTALL NEW 3#500KCMILS, 1#3(G), IN NEW OVERHEAD 4" CONDUIT COMPLETE. TO EACH NEW REPLACED PUMP MOTOR. REFER TO SEQUENCE OF CONSTRUCTION NOTES ON THIS SHEET.

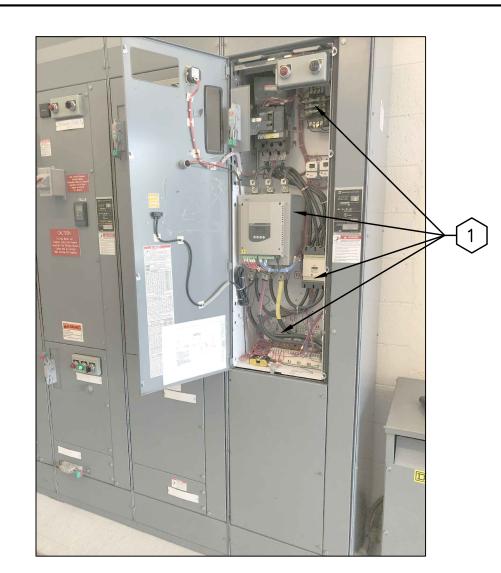
SEQUENCE OF CONSTRUCTION NOTES:

- 1- INSTALL NEW MOTOR STARTER PANELS ON THE WEST WALL NEXT TO THE EXISTING PANEL L1 COMPLETE . INSTALL ALL WIRING AND CONDUIT UP TO EXISTING MCC BUCKETS FOR MOTORS 1 THROUGH 4. REFER TO DRAWING KEY NOTES FOR WIRE AND CONDUIT SIZES.
- 2- INSTALL ALL CONDUIT AND WIRING FROM NEW MOTOR STARTERS OVERHEAD TO MOTORS 1, 2, 3, & 4 COMPLETE. INSTALL ALL WIRING NECESSARY FOR COMPLETE CONNECTION. EXTEND SUFFICIENT WIRE LENGTHS OF WIRING AT MOTOR ENDS OF CONDUITS FOR READY TO CONNECT TO NEW MOTORS. REFER TO DRAWING KEYNOTES FOR WIRE AND CONDUIT SIZES.
- 3- REPLACE EXISTING 125 HP MOTOR NUMBER 1 WITH NEW 200 HORSEPOWER MOTOR IN SAME LOCATION. REMOVE ALL EXISTING WIRING AND 250 AMP BREAKER IN MCC BUCKET. CAP EXISTING 2" CONDUIT AT BOTH ENDS.
- 4- CONNECT NEW WIRING AND CONDUITS FOR MOTOR POWER AND SPACE HEATER COMPLETE.
- 5- REPLACE EXISTING 250 AMP BREAKER IN MCC BUCKET WITH NEW 400 AMP BREAKER AND NEW WIRING FOR COMPLETE CONNECTION. REMOVE EXISTING VFD TERMINAL BLOCKS CONTACTORS AND AND RECONFIGURE EXISTING BUCKET TO ACCOMMODATE SINGLE 400 AMP BREAKER FOR MOTOR NUMBER ONE.
- 6- REPEAT FOR OTHER EXISTING MOTORS ONE AT A TIME

							PAN	IEL	"L1"				(1)(2)				
	MOUNTING: SHORT CIRCUIT RATING: POLES: FED FROM PANEL:	10K 30	AIC	IN MAII	N ELECTI	RICAL R	ООМ	(EXIS	TING)			MAIN BF		AMPS: AMPS:	100 100		
СКТ	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	СКТ
1	(EXIST.) INTERIOR LIGHTS	1	20	12	3/4"	6.7			12.5			3/4"	12	20	1	(EXIST.) PUMP CTRTL. PNL COOLER	2
3	(EXIST.) INTERIOR LIGHTS	1	20	12	3/4"		8.3			7.5		3/4"	12	20	1	(EXIST.) RECEPTACLES	4
5	(EXIST.) EXTERIOR LIGHTS	1	20	12	3/4"			6.7			4.2	3/4"	12	20	1	(EXIST.) BATTERY CHARGER	6
7	(EXIST.) EXTERIOR LTS AT PLATFORM	1	20	12	3/4"	8.3			10.0			3/4"	10	20	2/	(EXIST.) GENERATOR HEATER	8
9	(EXIST.) EXTERIOR LTS AT GENERATOR YARD	1	20	12	3/4"		2.5			10.0						+	10
11	(EXIST.) EXIT LIGHTS	1	20	12	3/4"			0.4			2.5	3/4"	12	20	1	(EXIST.) MAGNETIC FLOWMETER	12
13	SPARE	1	20						6.7			3/4"	12	20	1	(EXIST.) SITE SUMP PUMP RECEPT.	14
15	SPARE	1	20							7.5		3/4"	12	20	1	(EXIST.) SCADA	16
17	SPARE	1	20											20	1	SPARE	18
19	SPARE	1	20											20	1	SPARE	20
21	SPARE	1	20											20	1	SPARE	22
23	SPARE	1	20											20	1	SPARE	24
25	SPARE	1	20											20	1	SPARE	26
27	SPARE	1	20											20	1	SPARE	28
29	SPARE	1	20											20	1	SPARE	30
		TOTAL			AMPS =		10.8 35.8	7.1	29.2	25.0 11.26		(1) MAX	3% VD (ON BRA	NCH CIF	CUITS AS PER FBC	

(2) EXISTING CIRCUIT TO REMAIN

FLORIDA PROFESSIONAL ENGINEER NO. 45997



MOTOR #1 MCC BUCKET

REVISION

APPROVED BY: LARRY M. SMITH, P.E.



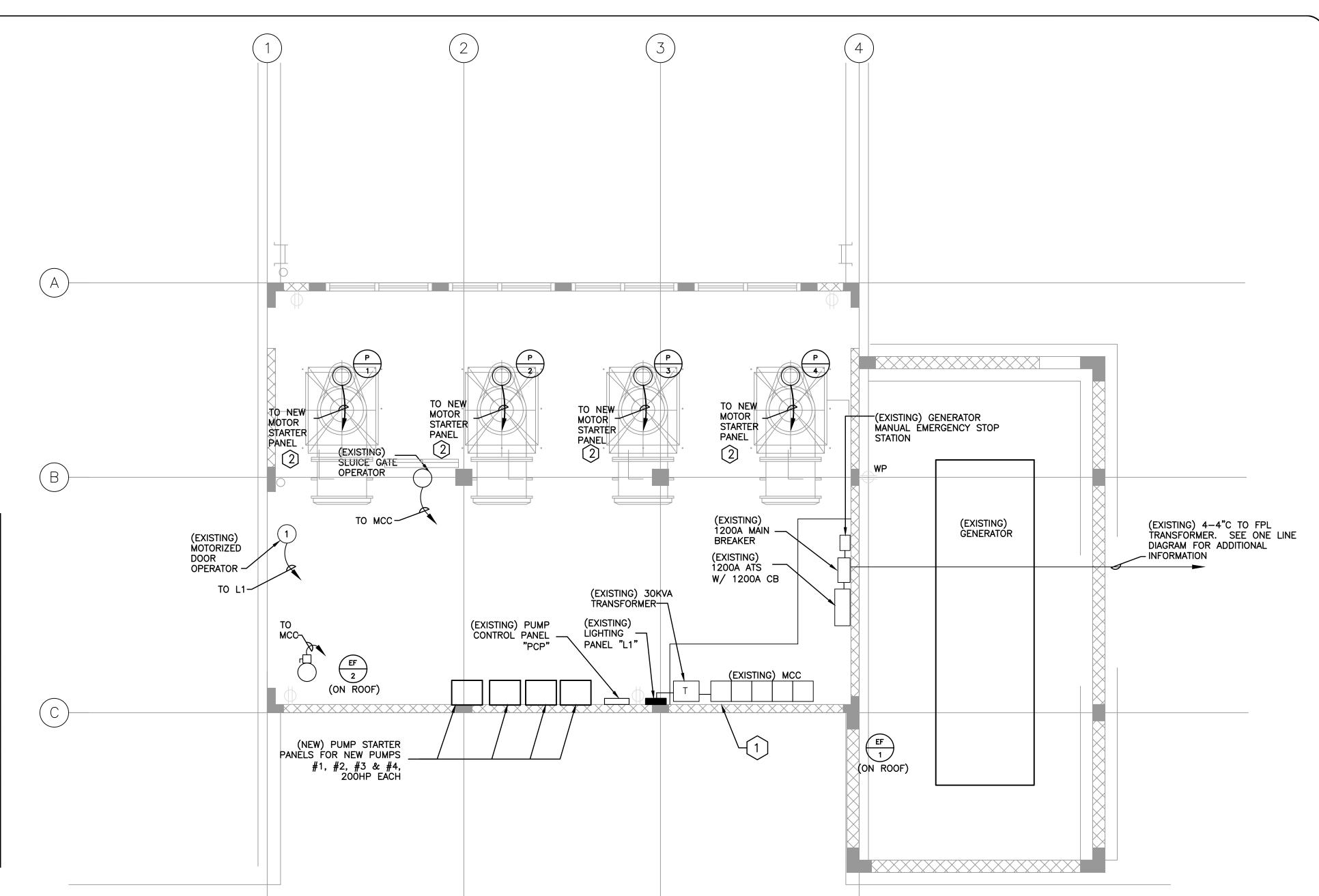
PREPARED FOR: SUNSHINE WATER CONTROL **DISTRICT PUMP STATION 1 UPGRADES**

PUMP STATION No.1 IMPROVEMENTS POWER PLAN

FILE NAME: S20035-E-2.0.dwg CAS PROJECT NUMBER

LAST SAVED: 01/15/21 - 6:12pm

E-2.0







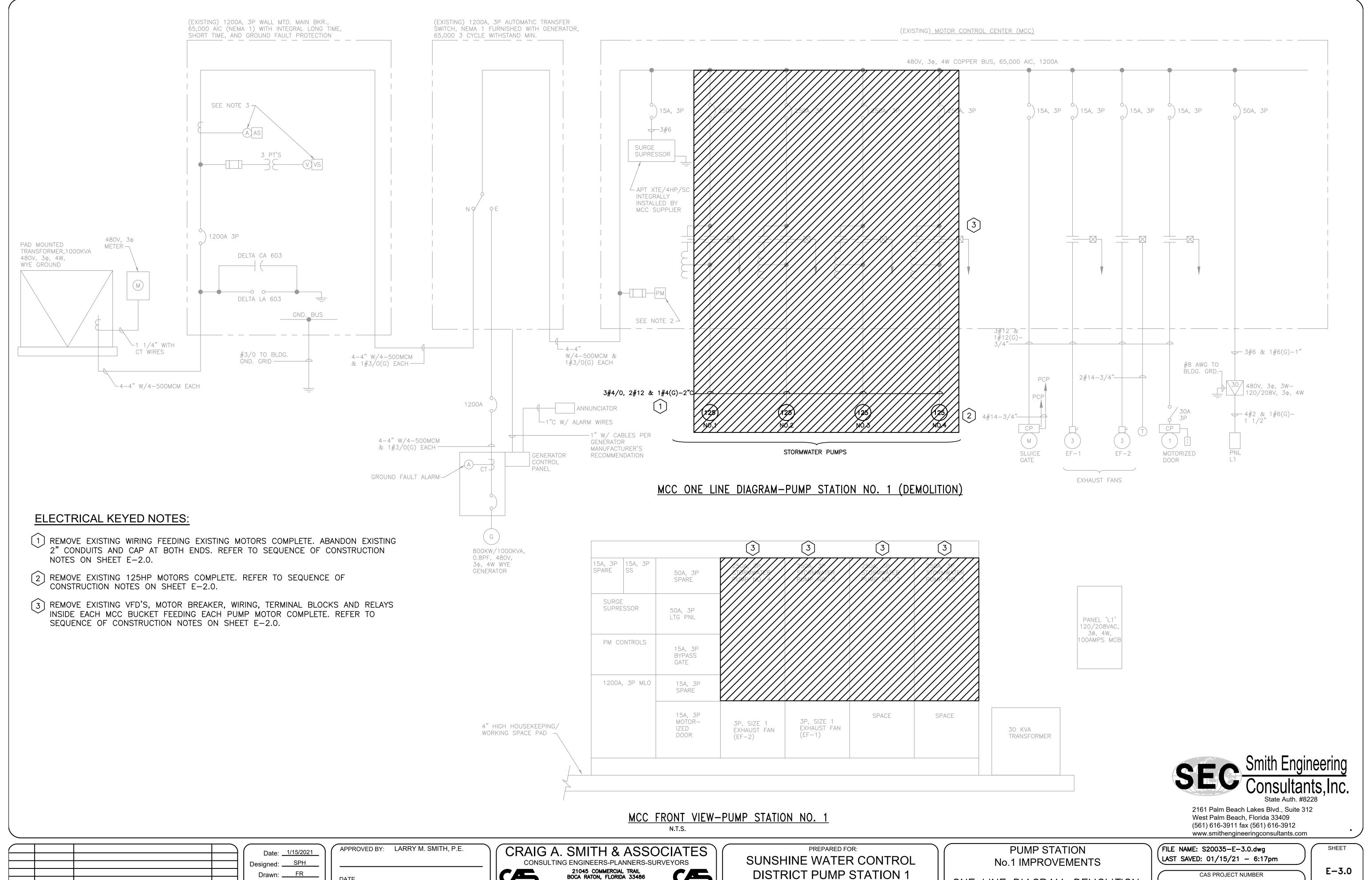
NOTES:

1. REFER TO DRAWINGS E-3.0 & E-4.0 FOR PUMP STATION NO. 1 ONE LINE DIAGRAM.



2161 Palm Beach Lakes Blvd., Suite 312 West Palm Beach, Florida 33409 (561) 616-3911 fax (561) 616-3912 www.smithengineeringconsultants.com

CRAIG A. SMITH & ASSOCIATES)	. (
CONSULTING ENGINEERS-PLANNERS-SURVEYORS	
21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 (561) 314—4445 CERTIFICATE, NO. LB0003110	

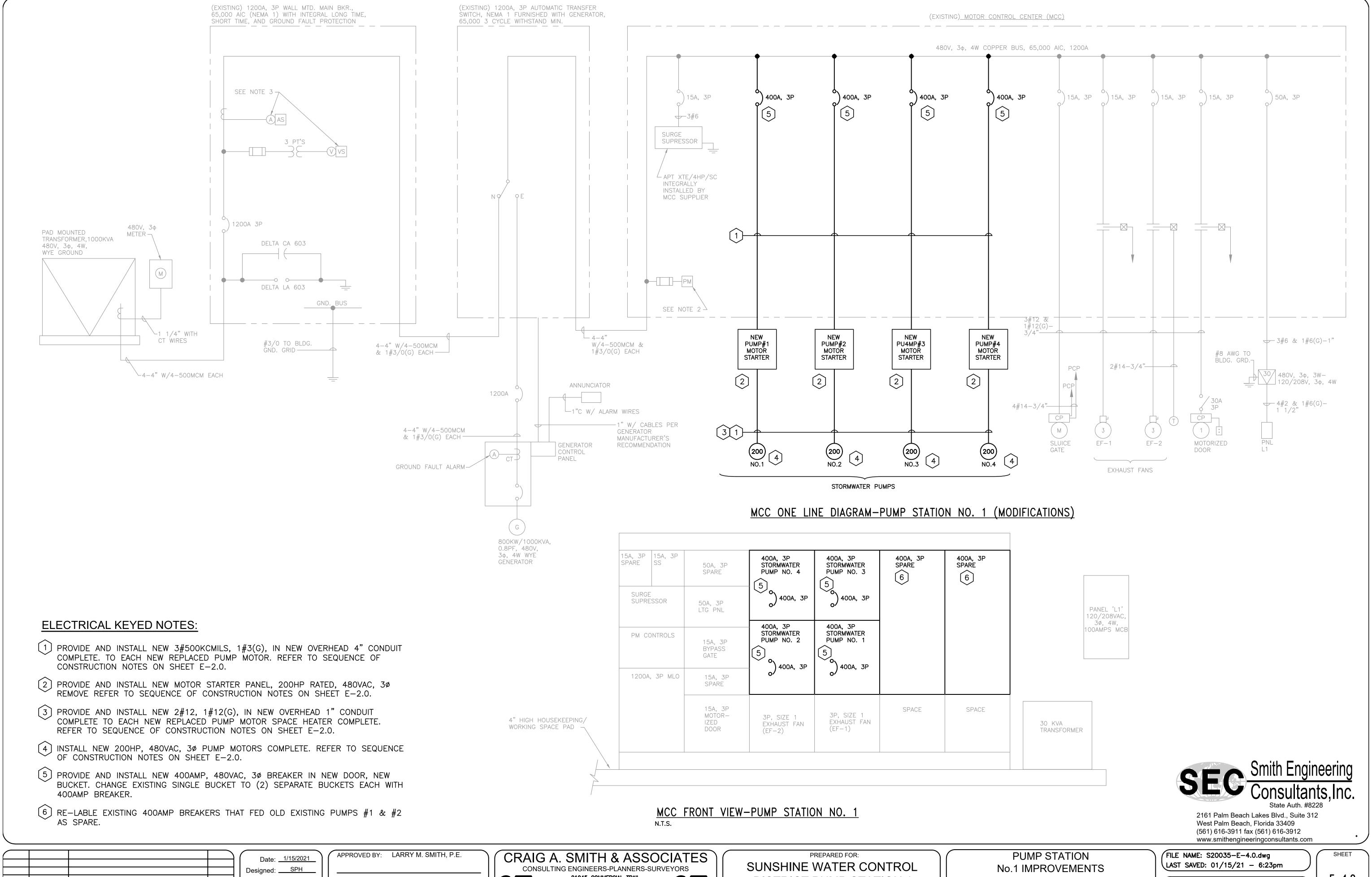


DATE REVISION Checked: _

DATE ___ FLORIDA PROFESSIONAL ENGINEER NO. 45997 21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 (561) 314-4445 CERTIFICATE. NO. LB0003110

DISTRICT PUMP STATION 1 UPGRADES

ONE LINE DIAGRAM-DEMOLITION



DATE REVISION

FR Drawn: **-**Checked:

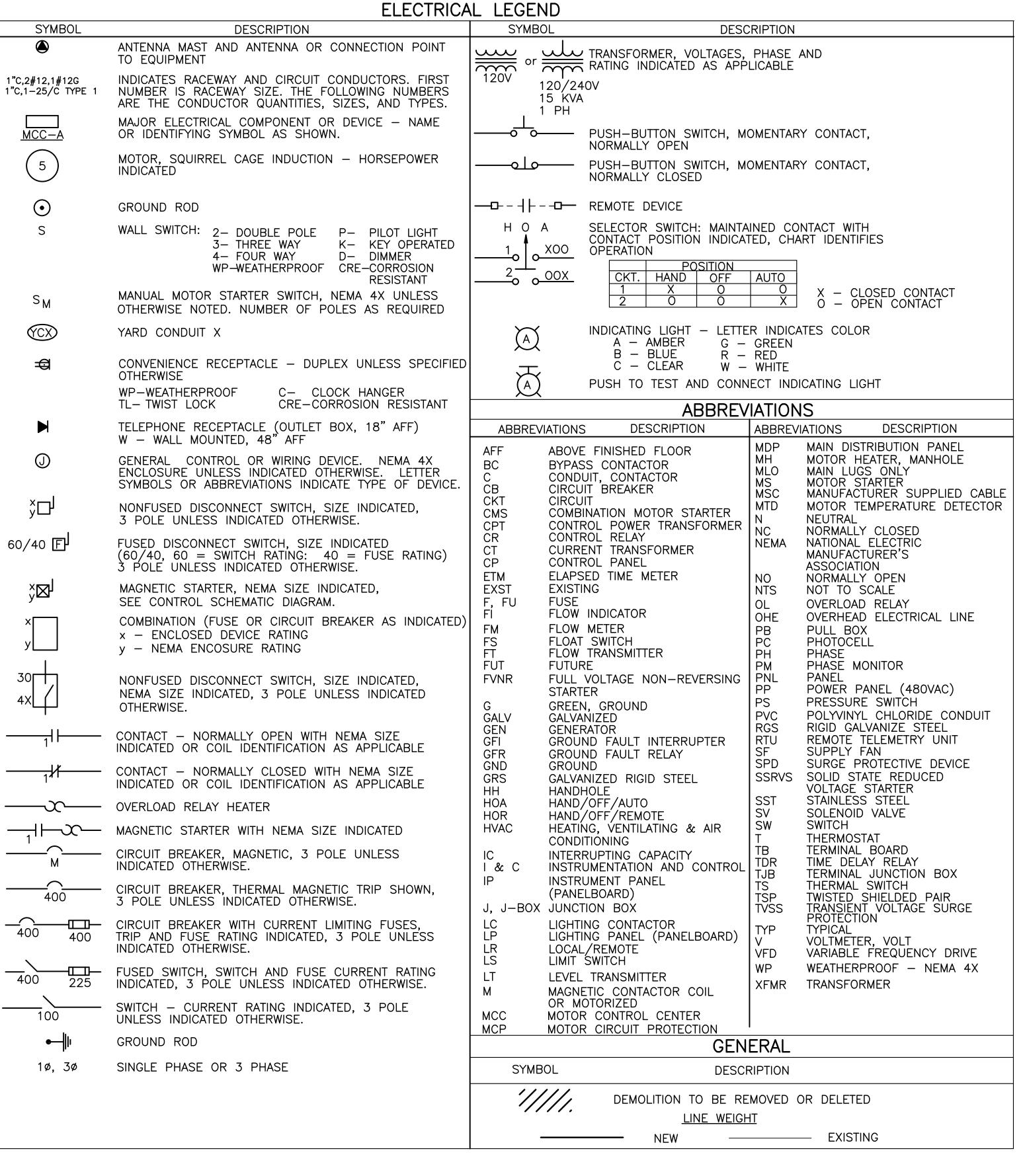
DATE FLORIDA PROFESSIONAL ENGINEER NO. 45997 21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 **4** (561) 314-4445 CERTIFICATE. NO. LB0003110

DISTRICT PUMP STATION 1 UPGRADES

ONE LINE DIAGRAM-MODIFICATIONS

E-4.0

CAS PROJECT NUMBER



GENERAL NOTES AND SPECIFICATIONS:

- 1. THE SCOPE OF WORK IS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS, PRIMARILY CONSIST OF THE FOLLOWING:

 1.A. REPLACE ALL 4-200HP PUMP MOTORS WITH NEW 250HP MOTORS
- COMPLETE IN PLACE.

 1.B. PROVIDE AND INSTALL 4 NEW MOTOR STARTERS TO FEED NEW
- 1.C. PROVIDE AND INSTALL NEW FPL ELECTRICAL SERVICE COMPLETE IN
- PLACE FOR NEW 1600AMP SERVICE ENTRANCE A.T.S.

 1.D. PROVIDE NEW A.T.S. 1600AMPS, SERVICE ENTRANCE RATED,480V, 3ø,
- 1.E. PROVIDE NEW 1000KW, 480VAC, 3ø GENERATOR.
- 2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
- 3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LOCAL CODES, CITY CODES, PALM BEACH COUNTY CODES AND THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND SHALL COORDINATE HIS WORK WITH THE ENGINEER AND OWNER.
- 4. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
- 5. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
- 6. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED.
- 7. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- 8. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF A LIFT STATION ACCEPTANCE.
- 9. COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS AND VERIFY ALL OBSTRUCTIONS WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
- 10. ALL CONDUCTORS SHALL BE 600V, U.L. LISTED. POWER CABLES SHALL BE TYPE THHN/THWN IN DRY LOCATIONS EXCEPT FOR SIZES NO. 6 AND LARGER USE XHHW. INSTRUMENTATION CABLE SHALL BE TYPE B, #16 AWG TWISTED SHIELDED PAIR WITH DRAIN WIRE. ALL CONDUCTING MEDIA SHALL BE COPPER. NO ALUMINUM ALLOWED.
- 11. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS). PAINT ALL RGS CONDUITS AND SUPPORTS WITH 2 COATS OF ASPHALTUM PAINT TO 4" ABOVE GRADE.
- 12. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, CONTROLLERS AND PANELBOARDS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
- 13. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED EQUAL" BASIS.
- 14. ALL EXCAVATIONS FOR CONDUITS AND HANDHOLES SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
- 15. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.

16. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION CONDUITS SHALL BE:

<u>VOLTAGE</u>

480V

2 FT

1 FT

120V

- 17. INSTRUMENTATION IS LOW VOLTAGE SIGNALS SUCH AS 4-20MA, TELEPHONE COMMUNICATION, POWER CONDUIT SHALL ONLY CROSS INSTRUMENTATION CONDUIT PERPENDICULARLY WITH 6" SEPARATION.
- 18. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE AND INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS) INCLUDING OWNER SUPPLIED AND USER—CHOICE PANELS. IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING.
- 20. PROVIDE DUCT SEAL IN ALL EXISTING AND NEW CONDUITS INSIDE CONTROL PANEL, RTU AND JUNCTION BOX.
- 21. DEMOLISH ALL ITEMS AS INDICATED ON DRAWINGS. TURN OVER TO THE OWNER AT THE OWNER'S DISCRETION AND PROPERLY DISPOSE OF ALL DEMOLITION ITEMS NOT WANTED BY THE OWNER.
- 22. ALL INSTALLATION AND EQUIPMENT SHALL COMPLY WITH PALM BEACH COUNTY UPAP STANDARD, EXCEPT IF OTHERWISE SHOWN IN DRAWINGS.
- 23. ALL CONDUIT PENETRATIONS SHALL BE AT THE BOTTOM OF ANY ENCLOSURE. SIDE PENETRATION IS ONLY ALLOWED WHEN CONNECTING SURGE PROTECTIVE DEVICE (SPD) AND PANEL.
- 24. ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL.
- 25. CONTRACTOR SHALL INCLUDE ALL COORDINATION WITH FPL AS NECESSARY FOR POWERING DOWN THE SERVICE FOR THE NEW SERVICE SWITCH INSTALLATION AND RE-ENERGIZING WHEN COMPLETE. DURING POWER OUTAGE, CONTRACTOR SHALL PROVIDE TEMPORARY GENERATOR POWER AS NEEDED FOR EQUIPMENT AND THE LIFT STATION.
- 26. CONTRACTOR SHALL, WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, PROVIDE TO THE BUILDING OWNER RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING A SINGLE LINE DIAGRAM OF THE ELECTRICAL DISTRIBUTION SYSTEM AND RELATED FLOOR PLANS INDICATING THE LOCATION AND AREA SERVED FOR THE DISTRIBUTION.
- 27. CONTRACTOR SHALL PROVIDE TO THE BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C405.7.4.2 OF THE 2014 FLORIDA BUILDING CODE ENERGY CONSERVATION, INCLUDING ANY AMENDMENTS THERETO.

SEC Smith Engineering Consultants, Inc.

2161 Palm Beach Lakes Blvd., Suite 312 West Palm Beach, Florida 33409 (561) 616-3911 fax (561) 616-3912 www.smithengineeringconsultants.com

NO. DATE REVISION BY

Date: 1/15/2021

Designed: SPH

Drawn: FR

Checked: LMS

APPROVED BY: LARRY M. SMITH, P.E.

FLORIDA PROFESSIONAL ENGINEER NO. 45997

DATE

CRAIG A. SMITH & ASSOCIATES

CONSULTING ENGINEERS-PLANNERS-SURVEYORS

21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE. NO. LB0003110

SUNSHINE WATER CONTROL
DISTRICT PUMP STATION 2
UPGRADES

PUMP STATION
No.2 IMPROVEMENTS
ELECTRICAL GENERAL NOTES AND
LEGEND

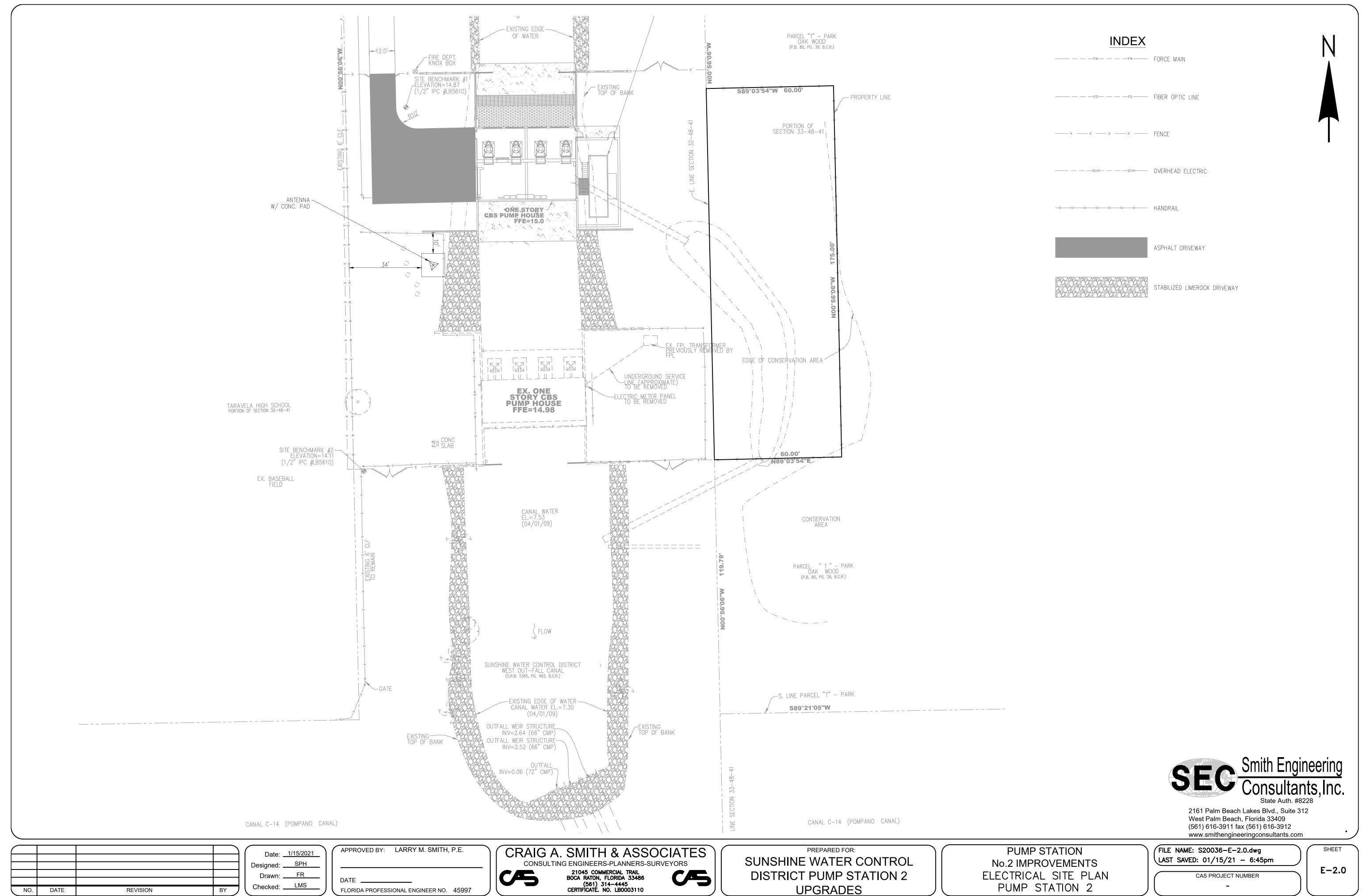
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CAS PROJECT NUMBER

E-1.0

SHEET



DATE

REVISION

KEYED NOTES

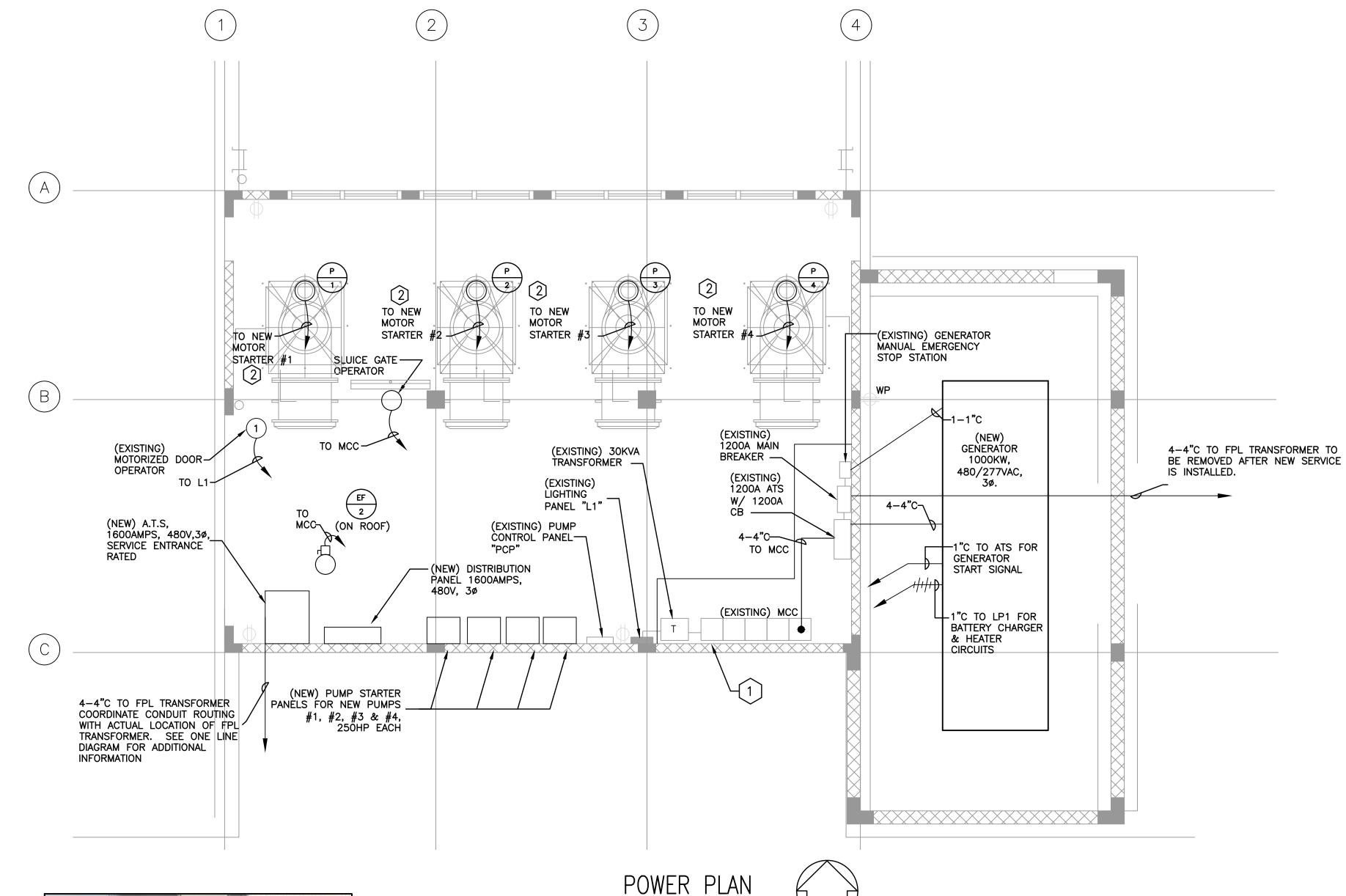
- (1) REFER TO KEY NOTE 3 ON SHEET E-4.0.
- (2) PROVIDE AND INSTALL NEW 2 SETS OF 3#250KCMILS, 1#2(G), IN 3-1/2" COMPLETE TO EACH NEW REPLACED PUMP MOTOR. REFER TO SEQUENCE OF CONSTRUCTION NOTES ON THIS SHEET.
- 3 REFER TO KEY NOTE 4 ON SHEET E-4.0.

SEQUENCE OF CONSTRUCTION NOTES:

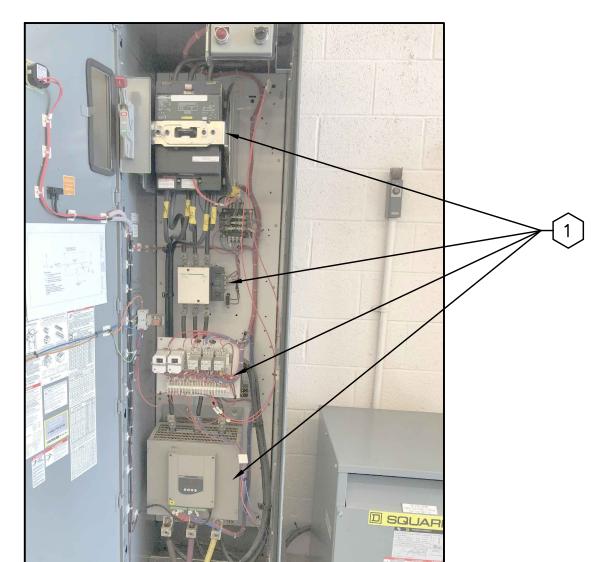
- 1- INSTALL NEW MOTOR STARTER PANELS, NEW A.T.S, AND NEW DISTRIBUTION PANEL 'DP' ON THE WEST WALL NEXT TO THE EXISTING PANEL L1 COMPLETE. INSTALL ALL WIRING AND CONDUIT FOR MOTORS ONE THRU 4. REFER TO DRAWING KEYNOTES FOR WIRE AND CONDUIT SIZES.
- 2- REPLACE EXISTING GENERATOR WITH NEW 1000KW GENERATOR AND INSTALL ALL WIRING AND CONDUIT TO PANELS 'L1' AND TRANSFER SWITCH COMPLETE.
- 3- INSTALL ALL CONDUIT AND WIRING FROM NEW MOTOR STARTERS OVERHEAD TO MOTORS 1, 2, 3 AND 4. INSTALL ALL WIRING NECESSARY FOR COMPLETE CONNECTION. EXTEND SUFFICIENT WIRE LENGTHS OF WIRING AT MOTOR ENDS OF CONDUITS FOR READY TO CONNECT TO NEW MOTORS. REFER TO DRAWING KEYNOTES FOR WIRE AND CONDUIT SIZES.
- 4- INSTALL ALL CONDUIT AND WIRING BETWEEN NEW MOTOR STARTERS AND NEW DISTRIBUTION PANEL COMPLETE.
- 5- CONNECT NEW FPL SERVICE TO NEW SERVICE ENTRANCE RATED A.T.S., READY FOR USE.
- 6- REPLACE EXISTING 200 HP MOTOR NUMBER ONE WITH NEW 250 HORSEPOWER MOTOR IN SAME LOCATION. REMOVE ALL EXISTING WIRING AND DISCONNECT FROM MCC.
- 7- CONNECT NEW WIRING AND CONDUITS FOR MOTOR POWER AND SPACE HEATER COMPLETE.
- 8- RE-LABLE EXISTING 400 AMP BREAKERS IN MCC BUCKETS AS SPARE AND DISCONNECT FEED TO MOTOR STARTERS.
- 9- REPEAT FOR OTHER EXISTING MOTORS ONE AT A TIME

							PAN	IEL	"L1"				(1)(2)				
	MOUNTING:	SURFA	ACE					(EXIS	TING)					VOLT:	208/120	0V,3Ø,4W	
	SHORT CIRCUIT RATING:	10K	AIC									M/	AIN BUS	AMPS:	100	A	
	POLES:	30										MAIN BF	REAKER	AMPS:	100		
	FED FROM PANEL:	PANEL	'MCC'	IN MAII	N ELECT	RICAL R	MOC					MANUFA	CTURER	VTYPE:	SIEMEI	NS, SQ-D, GE	
СКТ	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD SERVED	СКТ
1	(EXIST.) INTERIOR LIGHTS	1	20	12	3/4"	6.7			12.5			3/4"	12	20	1	(EXIST.) PUMP CTRTL. PNL COOLER	2
3	(EXIST.) INTERIOR LIGHTS	1	20	12	3/4"		8.3			7.5		3/4"	12	20	1	(EXIST.) RECEPTACLES	4
5	(EXIST.) EXTERIOR LIGHTS	1	20	12	3/4"			6.7			4.2	3/4"	12	20	1	(EXIST.) BATTERY CHARGER	6
7	(EXIST.) EXTERIOR LTS AT PLATFORM	1	20	12	3/4"	8.3			10.0			3/4"	10	20	2/	(EXIST.) GENERATOR HEATER	8
9	(EXIST.) EXTERIOR LTS AT GENERATOR YARD	1	20	12	3/4"		2.5			10.0						1	10
11	(EXIST.) EXIT LIGHTS	1	20	12	3/4"			0.4			2.5	3/4"	12	20	1	(EXIST.) MAGNETIC FLOWMETER	12
13	SPARE	1	20						6.7			3/4"	12	20	1	(EXIST.) SITE SUMP PUMP RECEPT.	14
15	SPARE	1	20							7.5		3/4"	12	20	1	(EXIST.) SCADA	16
17	SPARE	1	20											20	1	SPARE	18
19	SPARE	1	20											20	1	SPARE	20
21	SPARE	1	20											20	1	SPARE	22
23	SPARE	1	20											20	1	SPARE	24
25	SPARE	1	20											20	1	SPARE	26
27	SPARE	1	20											20	1	SPARE	28
29	SPARE	1	20											20	1	SPARE	30
		TOTAL			AMPS =		10.8 35.8	7.1	29.2	25.0 11.26	6.7 KVA						

												(2) EXIST	ING CIR	CUIT TO	REMAI	N		
					DIST	TRIB	UTI	ON	PAN	IEL	"DP	"	(1)(2)					
\$	MOUNTING: SHORT CIRCUIT RATING: POLES: FED FROM PANEL:	65K 30)				(NEW)			MAIN BF MANUFA		AMPS:	1600 MLO			
СКТ	LOAD SERVED	POLE	TRIP	WIRE	COND	AMPS 'A'	AMPS 'B'	AMPS 'C'	AMPS 'A'	AMPS 'B'	AMPS 'C'	COND	WIRE	TRIP	POLE	LOAD	SERVED	скт
	SPACE	3 /	1												3/	SPACE		2
3																		4
5	<u> </u>	/													/		<u> </u>	6
	SPACE	3/	1												3/	SPACE		8
9		-	-															10
11 13	▼ SPACE	3 /	_												3/	SPACE	<u> </u>	12 14
15	SPACE	3/		+											3/	SPACE		16
17		/		+													<u> </u>	18
	SPACE	3 /	+												3 /	SPACE	<u>*</u>	20
21		/													/			22
23	+																 	24
25	SPACE	3 /	1												3/	SPACE	•	26
27																		28
29																		30
		TOTAL			AMPS =		0.0	0.0	0.0	0.00	0.0 KVA							
		.01/10	. 30111		7.1111	0.0	0.0	0.0		3.00		(1) MAX (2) SERV (3) NEMA	ICE ENT	RANCE	RATED	RCUITS AS I	PER FBC	



3/16"=1'-0"



MOTOR #1 MCC BUCKET N.T.S.



1. REFER TO DRAWINGS E-4.0 & E-5.0 FOR PUMP STATION NO. 2 ONE LINE DIAGRAM.

NOTES:



(EXIST.) ELECTRICAL EQUIPMENT

2161 Palm Beach Lakes Blvd., Suite 312 West Palm Beach, Florida 33409 (561) 616-3911 fax (561) 616-3912 www.smithengineeringconsultants.com

DATE REVISION

Drawn: FR

APPROVED BY: LARRY M. SMITH, P.E

FLORIDA PROFESSIONAL ENGINEER NO. 45997

(4) ESTIMATED EXISTING VALUES

(5) 2 SETS Of CONDUCTORS

Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC

CRAIG A. SMITH & ASSOCIATES CONSULTING ENGINEERS-PLANNERS-SURVEYORS 21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 (561) 314-4445 CERTIFICATE. NO. LB0003110

PREPARED FOR: SUNSHINE WATER CONTROL DISTRICT PUMP STATION 2 **UPGRADES**

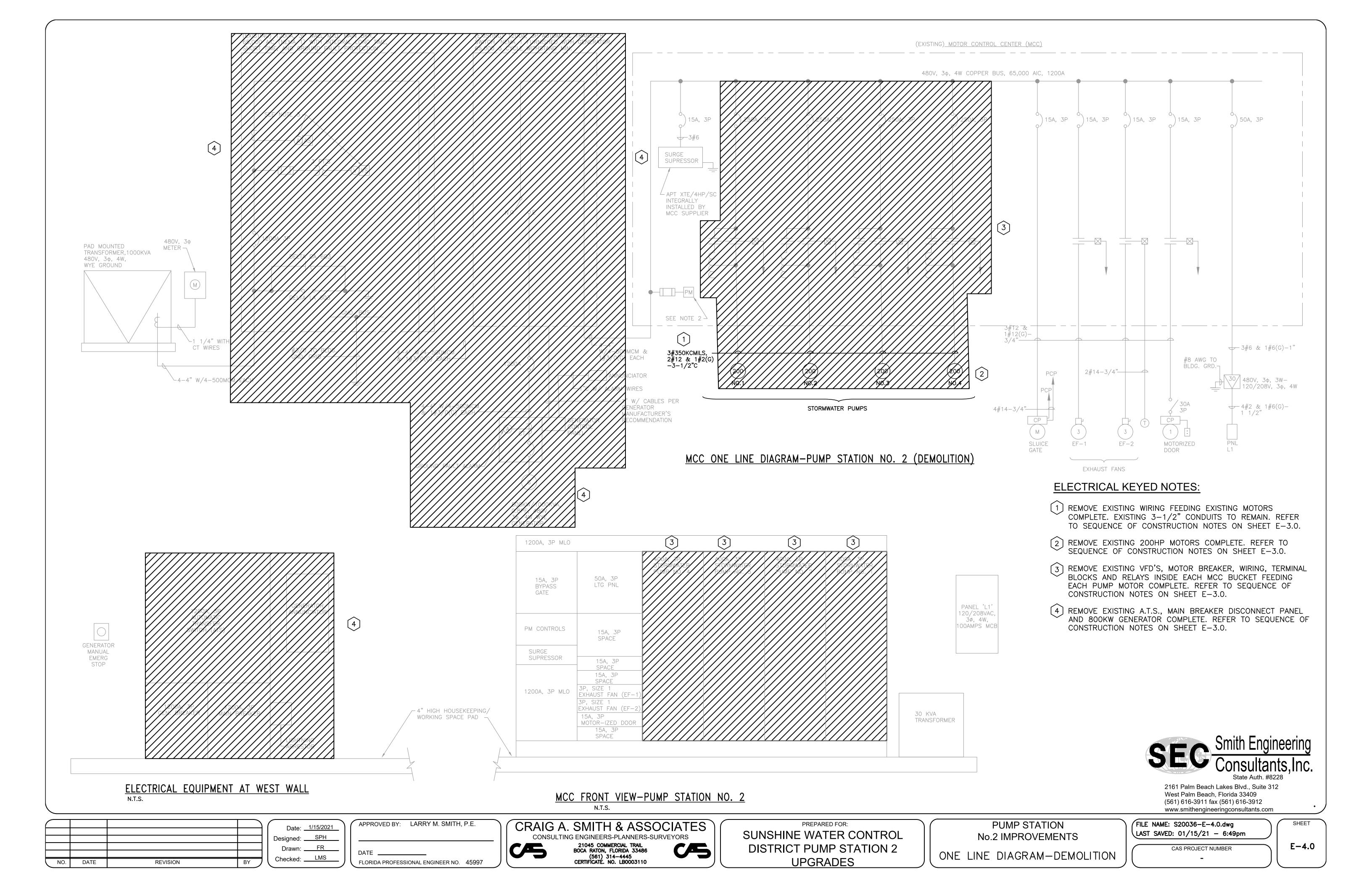
PUMP STATION No.2 IMPROVEMENTS POWER PLAN

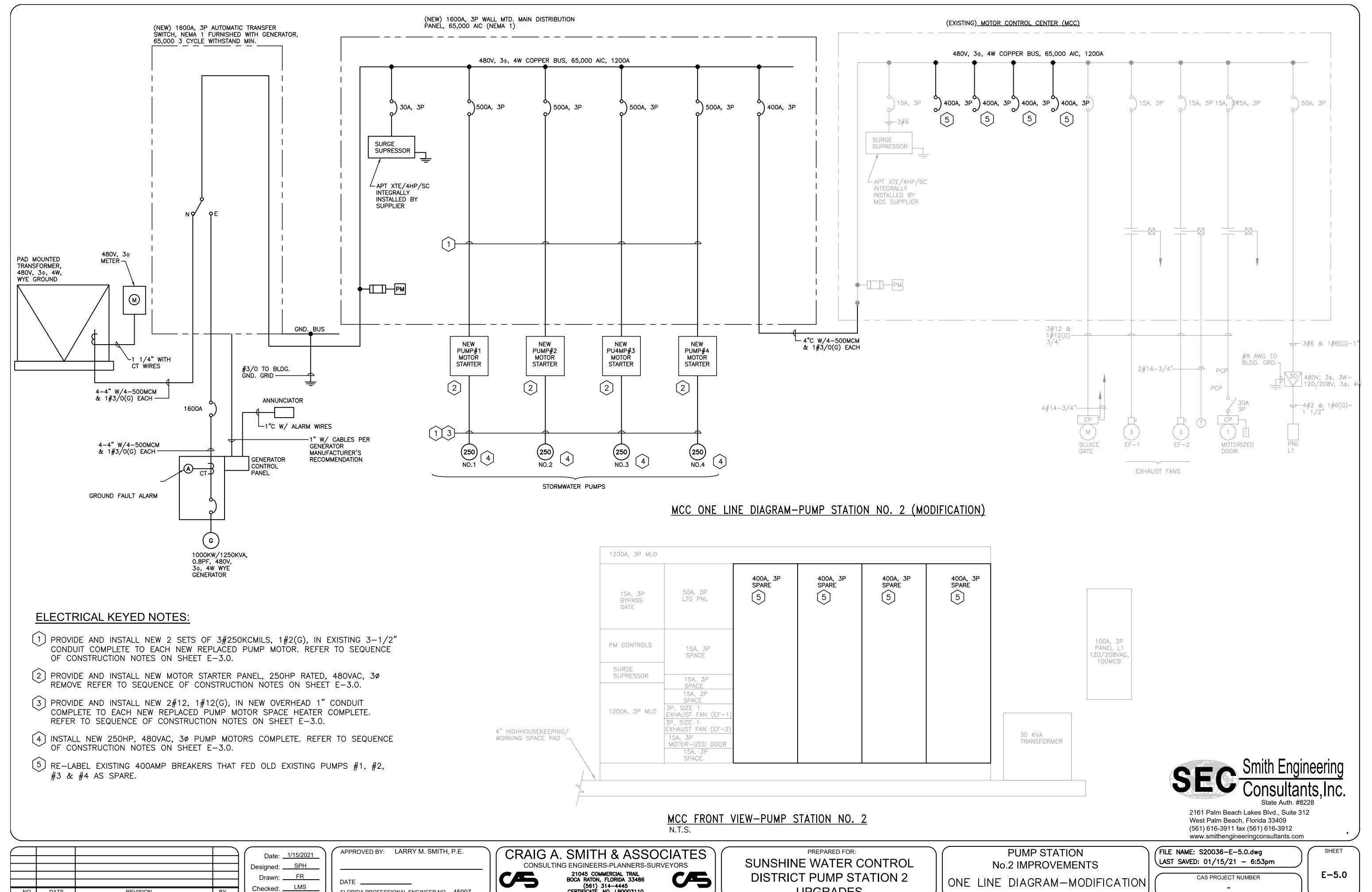
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E - 3.0

SHEET





DATE REVISION FLORIDA PROFESSIONAL ENGINEER NO. 45997

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UPGRADES

SUNSHINE WATER CONTROL DISTRICT

10EIII

SUNSHINE WATER CONTROL DISTRICT

BOARD OF SUPERVISORS FISCAL YEAR 2020/2021 MEETING SCHEDULE

LOCATION

La Quinta Inn Coral Springs, 3701 N. University Drive, Coral Springs, Florida 33065

DATE	POTENTIAL DISCUSSION/FOCUS	TIME
October 14, 2020	Regular Meeting	6:30 PM
November 4, 2020*	Regular Meeting	6:30 PM
December 0, 2020	Pagular Masting	6:30 PM
December 9, 2020	Regular Meeting	6:30 PIVI
January 13, 2021	Regular Meeting	6:30 PM
		0.000
February 10, 2021	Regular Meeting	6:30 PM
March 10, 2021	Landowners' Meeting & Regular Meeting	6:30 PM
April 14, 2021	Regular Meeting	6:30 PM
May 12, 2021	Regular Meeting	6:30 PM
June 9, 2021	Regular Meeting	6:30 PM
July 14, 2021	Regular Meeting	6:30 PM
August 11, 202	Regular Meeting	6:30 PM
, 105031 11, 202	negatar Weeting	0.50 1 141
September 8, 2021	Public Hearing & Regular Meeting	6:30 PM

Exceptions:*

November meeting is one week earlier to accommodate Veteran's Day Holiday