



ADD-CHANGE FORM

New Project or Budget Change?

Assigned Project #

Requested by:
Project Manager / Area Manager

Date:

Project Name:

Company: Sanlando Utilities Corp

Business Unit: Sanlando Utilities Corp S

BU Type:

Project Owner:

Budget Owner / RVP: 03

Project Manager:

Region: 04

Start Date: Q4 2016

State:

Estimated End Date: Q2 2017

Project Type:

Will project replace/retire any assets:

Previously Requested:

This Request:	\$591,200
Still to be Requested:	\$0
Total Project Budget:	\$591,200

Description:

Procure and install an Ace Motorola RTU at each lift station within the Sanlando service area for a total of 55 sites. Project also includes engineering and bidding services as well as CEI costs.

Timeline Considerations:

This project is a proforma project included in the open rate case filing and must be completed by end of the 2017 calendar year.

Inter-dependant Project Project Number: Project Name (If applicable)

Have engineering evaluations been performed? Engineering project number (If applicable)



JUSTIFICATION / ALTERNATIVES

Justification and Benefits:

Currently there are 42 sanitary lift stations monitored by C&A Alarm Systems in the Sanlando service area and 13 lift stations with audio/visual alarms only. In 2016, SCADA was installed at the Wekiva WTP and WWTP, both of which were previously monitored by C&A Alarm Systems. Since we began monitoring alarms using the SCADA system, the Utility has reduced the lag time between an alarm event occurring and notifying field staff by 5 to 10 minutes. Operators can monitor plant activity remotely through the use of a laptop computer at all times. The reduction in alarm notification time is critical when addressing lift station issues that can lead to SSOs and potential backups in the system that can impact customers' homes and cause property damage. The ability to pull reports for all lift stations at the beginning of a work day will allow the Lift Station Technician to prioritize work activities and address a problem early in the day whereas under the current condition a problem might not be realized and readily addressed simply by not knowing in a timely manner that a problem exists. Events such as pulling a pump, replacing a pump, replacing floats or fixing electrical panel issues can be logged in the SCADA system for tracking purposes making that knowledge available to all Lift Station Technicians that rotate on call duties or substitute for vacation or an unscheduled absence.

In response to a 2016 emergency rule issued by DEP, Florida has implemented a stringent SSO reporting procedure that includes notification to the media through a television network and newspaper as well as Tallahassee FDEP and Central District FDEP offices for each SSO, regardless of the volume spilled, within 24 hours of the event and notification to any affected property owner within 48 hours should the spill create a threat to the public health and/or Florida's air and water resources. Legislation is currently under way to make the emergency rule a permanent regulation. This rule increases the need to improve monitoring and maintenance of the lift stations and collection system while also reducing response time.

Risk Evaluation

This project will improve response times for alarm events and further reduce SSO's. This is especially true for the 13 lift stations with only local alarms in place currently.

Alternatives Considered:

Use of a controller that uses texting as a notification method but would require a parallel VT SCADA package doubling maintenance costs and injecting a new technology that is not widely used and demonstrated.

Only install RTUs at the 42 stations that are currently monitored by C & A Alarm Systems and not at the 13 remaining stations. Doing so would increase risk of SSOs at these 13 stations and within the collection system. There have been several instances when local alarms have sounded and the adjacent neighbor doesn't call the Utility.

Technical Review Summary:

This project was presented to the CPRT on 12/8/2016 with no comments received that would require revisions or additions.



Financial and Regulatory Implications

Capital Plan

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	\$591,200				
Project Spend in Current Plan	\$591,200				
Variance	-	-	-	-	-
CIAC Collected					
Net Rate Base	591,200	591,200	591,200	591,200	591,200

(if applicable)

O&M Cost Impact B/(W)

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Financial Justification

This project is necessary to improve response times and reduce SSO's for alarm events at our 42 sanitary lift stations monitored by C&A Alarm Systems. O&M savings will be minimal during the 2-3 months between the project completion in June and the rate recovery period in September.

Estimated Revenue Impact per Customer:

Number of Customers Impacted:

Served	Rate Payers
(9.41)	(4.62)
5,915	12,050

Utility Financial Impact

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(5,912)				
Under-recovery on capital B/(W)	(49,736)				
Net EBIT Impact B/(W)	(55,648)				

Timing and Supporting Information on Rate Recovery

This project's estimated completion is June 2017 and rate recovery should begin in September 2017.

Regulatory Plan Implications

This is a proforma project included in the 2016 UIF consolidated rate case filed in 3Q of 2016.

Assumptions

ROE: 10.25%, Cost of Debt: 6%, Equity Percentage: 50%, Tax Rate: 37.63%, Depreciation Rate: 1.5%
 After Tax Return on Rate Base = $10.25\% \times 50\% + 6\% \times 50\% \times (1 - 37.63\%) = 6.9961\%$
 Pretax Return on Rate Base = $6.9961\% / (1 - 37.63\%) = 11.217\%$
 Total Revenue Required = Pretax Return on Rate Base + Depreciation Rate = $11.217\% + 1.5\% = 12.717\%$
 Please note the under-recovery on capital includes equity, taxes, and debt portions



BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received?

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	North Lake Electric	\$217,250	Yes
2	Thompson Electric LLC	\$258,500	No
3	Economy Electric	No Bid	No

Component:	Amount
Value Bid Elements	217,250.00
Engineering	26,200.00
Direct Purchase of Parts / Materials	
Landscaping / Site Restoration	
Other Components (specify):	
Cap Time	
ScadaOne RTUs/Integration	341,320.00
Seminole County Electric Permits Fees	6,430.00

should match selected bid(s) above

Total Project Budget **591,200.00**

should match Total Budget on General Information

Object Account(s) to which project will be closed:

1295

Struct/Imprv Pump Plt Ls
 select from dropdown list
 select from dropdown list
 select from dropdown list
 select from dropdown list

[Go to Reference List](#)

General Comments:

Four electrical contracotrs were solicited - North Lake Electric, Thompson Electric, Chinchor Electric, and Economy Electric. Of these four vendors, only two bids were received reflecting an increase in demand for qualified electrical contractors locally.

ScadaOne has supplied all SCADA equipment and programming installed previously in Lake Utility Services and Sanlando Utilities facilities. ScadaOne was selected in this project as the sole source for the RTU installations and integration in order to avoid any conflicts or incompatibility that may arise if differing equipment and software were utilized. The unit cost of the RTU's in this project is in line with unit cost in previous projects for identical equipment.



Approvals

EAM Prime Review

Review Completed by Date:
Does project align with utility plan and meet technical requirements? Yes No

Comments

This project aligns with the utility plan and meets UIF technical requirements.

Technical Peer Review

Review Sponsored by Date Held
Approval to proceed Yes No

Comments (note if feedback received in review incorporated)

None.

FP&A Review

Review Completed by Date:
Does Project comply with current Utility Rate and Regulatory Plan? Yes No

Comments

Approvals

Applicable?

Regional Manager:	<input type="text" value="Bryan K. Gongre"/>	Date: <input type="text" value="12/8/2016"/>	<input checked="" type="checkbox"/>
VP Operations:	<input type="text" value="Patrick C. Flynn"/>	Date: <input type="text" value="12/13/2016"/>	<input checked="" type="checkbox"/>
President:	<input type="text" value="John P. Hoy"/>	Date: <input type="text" value="1/3/2017"/>	<input checked="" type="checkbox"/>

Approval or Re-Direction Comments

Sanlando Lift Station Listing

No.	ACCOUNT	DESCRIPTION	LOCATION	VOLT	PH	HP	AMP
1	7005961694	L/S A-01	125 WESTERN FORK @ PLAYGROUND	240	3	20.0	40
2	6969095132	L/S A-02	109 WILLOW TREE LANE-WOODLANDS	240	1	1.3	5
3	6946917591	L/S A-03	90 SWEETBRIAR BRANCH-WOODLANDS	240	3	5.0	10
4	0056370631	L/S A-04	500 DEVONSHIRE BLVD @ RANGELINE	240	3	5.0	11
5	6222226633	L/S A-05	147 SHERIDAN AVE-WINSOR MANOR	240	3	6.1	11
6	7058813369	L/S A-06	136 LEA AVE NEAR 123 TARREYTOWN	240	3	9.4/10	20
7	6902706527	L/S A-07	165 SPRINGWOOD CIRCLE-LONGWOOD VILLAGE	240	3	9.4	11
8	0148105006	L/S A-08	1580 GRACE LAKE CIRCLE-N COVE	240	3	3.0	6
9	0138888365	L/S A-09	1352 N MARCY DR-BAY LAGOON	240	3	3.0	7
10	0098997598	L/S A-10	10 GRAND OAK CT-NORTHRIDGE	240	3	10.0	20
11	7044412363	L/S A-11	1902 BOOTHE CIRCLE-CMBRG SQRE	240	3	2.0	4
12	0162361999	L/S A-12	1355 SHADY KNOLL CT-OAK CRESTE	240	3	2.0	4
13	0567144030	L/S C-01	225 MARKHAM WOODS RD@ COMFORT INN	240	3	9.4/10	21
14	2976276447	L/S C-02	98 FAIRWAY DRIVE	240	3	5.0	11
15	2955539001	L/S C-03	125 WISTERIA DRIVE	240	3	5.0	11
16	2956691082	L/S C-04	105 WISTERIA DRIVE	240	3	9.4	21
17	2891310546	L/S C-06	201 RIVERBEND COURT	240	3	10.0	20
18	3001622209	L/S C-07	162 WOODBRIDGE ROAD	240	3	5.0	11
19	3367084378	L/S C-08	WEKIVA SPRINGS LANE @ SR 434	240	3	9.4	21
20	0610203024	L/S C-09	196 MARKHAM WOODS RD-RIVERSIDE	240	3	3.0	5
21	2919392495	L/S C-10	RAINTREE & HUMMINGBIRD (THE SPRINGS)	240	3	5.0	10
22	2910607888	L/S C-11	310 SPRINGRUN CIRCLE	240	3	3.0	8
23	0606170745	L/S C-12	2191 SPRINGS LANDING BLVD	240	3	9.4	21
24	7987324566	L/S C-13	147 CROWN POINT CIRCLE	240	3	9.4/9.7	21
25	0593497860	L/S C-14	110 FOREST POINT LN	240	3	3.0	7
26	0588745537	L/S C-15	653 RIVERPARK CIRCLE	240	3	3.0	8
27	8503690022	L/S F-01	421 TIMBER RIDGE DRIVE-REMOTE CONN	480	3	47.0	103
28	1171608406	L/S F-02	367 SABAL PALM DR MEDIAN	480	3	47.0	103
29	7983004269	L/S F-03	596 VILLAGE PLACE-VILLAGE ON THE GREEN	480	3	5.0	5
30	3139692580	L/S H-01	401 FOX VALLEY DRIVE-REMOTE CONN	240	3	9.4/10	21
31	3011667694	L/S H-02	310 VALLEY DRIVE	240	3	10.0	20
32	3033989242	L/S H-03	211 SWEETWATER CREEK DRIVE	240	3	9.4/10	20
33	8399570791	L/S H-04	717 RIVERBEND BLVD	240	3	20.0	41
34	8118373665	L/S H-05	SWEETWATER COVE BLVD @ N END	240	1	5.0	11
35	8390786186	L/S H-06	992 STONE CREEK	240	3	3.0	7
36	7742184333	L/S H-07	3699 WATERCREST DR @ LAUREL FERN	240	3	3.0	6
37	7742040327	L/S H-08	985 BEARDED OAKS TERRACE	240	3	10.0	21
38	8202565113	L/S L-02	112 WHEATLAND COURT-REMOTE	240	3	10.0	21
39	8226182750	L/S L-03	103 YORK COURT	480	3	GEN/20	41
40	1219995768	L/S L-04	115 CUMBERLAND CIRCLE EAST-REMOTE	240	1	3.8/5	16
41	8238855633	L/S L-06	STAG RIDGE CT/HUNTERS POINT	480	3	20.0	21
42	1302801511	L/S L-07	157A DUNCAN TRAIL-WEKIVA HILLS-REMOTE	480	3	20.0	21
43	8041616333	L/S M-01	2629 JENNIFER HOPE BLVD @ BACK-REMOTE	240	3	9.4/10	20
44	6060481643	L/S M-02	ENTRANCE TO FOREST PARK EST @ WALL	240	3	5.0	11
45	1346436549	L/S M-03	176 BRISTOL POINT-WEKIVA COVE 1-REMOTE	480	3	5.0	5
46	1355941204	L/S M-04	486 WEKIVA COVE RD-WEKIVA COVE 2	240	3	3/4.69	11
47	5784846505	L/S M-05	4080 E. S.R. 436-APTS-REMOTE	240	3	20.0	40
48	7981996193	L/S M-06	590 CAMPUS LOOP @ FOREST LAKE ACADEMY	240	3	20.0	21
49	6173961527	L/S M-07	3357 E. SR 436/ NURSING HOME/REAR	240	3	20.0	20
50	5678161231	L/S M-08	3008 SAND LAKE ROAD-TERRA OAKS	240	3	10.0	21
51	4626272459	L/S M-09	1201 W. SR 436 @ WALGREENS	208	3	15.0	30
52	6096685448	L/S M-10	3009 SAND LAKE RD - BELLA VISTA	480	3	15.0	14
53	2967024597	L/S N-01	241 SHADOWBAY BLVD	240	3	9.4	20
54	8136681544	L/S N-02	885 CUTLER ROAD	240	1	3.0	26
55	9503986140	L/S N-03	443 WEKIVA SPRINGS RD-HICROFT PT	240	3	15.0	34

RECEIVED
OCT 06 2016

3006381
PJ# 227459
Receipt# 237326



Bill To:

Utilities Inc. of Florida
200 Weathersfield Avenue
Altamonte Springs, FL 32714
Attn: Bryan K. Gongre

Invoice

Date	Invoice #
10/3/2016	UI16001.4
BEC Project #	Client Project #
UI16001	

Description	Contract Amount	Previously Invoiced	% Complete	Current Amount
RTU Additions Sanlando Lift Stations Utilities Inc. of Florida				
Task 1 - Design Services	16,400.00	14,760.00	100.00%	1,640.00
Task 2 - Construction Services	9,800.00		0.00%	0.00

Payments/Credits \$0.00

Current Amount Due \$1,640.00

**Utilities Inc.
Bid Responses
November 2016**

Sanlando Lift Stations RTU Additions

Installation of RTUs		
Contractor	Proposed Fee	Proposed Fee Including Cost of RTUs
North Lake Electric	\$217,250.00	\$558,570.00
Thompson Electric, LLC	\$258,500.00	\$599,820.00

Quote for RTUs	
Contractor	Proposed Fee
SCADAOne, LLC	\$341,320.00



11/18/2016

Bailey Engineering
Attn: : Stephen Bailey
RE: Sanlando RTU Install

North Lake Electric is pleased to submit the following price for the above referenced project. This price includes all materials, labor, taxes, and permits for a complete system per plans and specs. Please see the scope of work listed below.

Included in Scope

1. Conduit and Wire
2. Stands For RTU Cabinets Where Required
3. Concrete Around Stands for RTUs
4. Termination of 32 Wires Per Station termination Points Provided by others.

Not included In Scope

1. RTU Cabinets
2. Relays
3. Permitting Fees
4. Testing of Control Components
5. Wind Load Calculations for Stands.

The Price for this project is \$ 217,250.00

Respectfully,

X

Ryan Strong
Vice President

North Lake Electric, Inc. is not responsible for errors or omissions in the design of this project with respect to local and state codes.

BILL BAHLER

THOMPSON ELECTRIC, LLC

PO BOX 2531 INVERNESS, FL 34451

CELL: (407) 947-9499 ▲ PHONE: (352) 637-0702 ▲ FAX: (352) 637-0702

Email: bill.bahler@thompsolecfl.com

PROPOSAL
No. P726-1116

November 18, 2016

Utilities Inc. of Florida
200 Weathersfield Ave.
Altamonte Springs, FL 32714

Re: Sanlando Lift Stations RTU Additions, Project UI-16-001DG

Dear Bryan Gongre,
Thompson Electric, LLC is pleased to offer the following proposal for your review.

Furnish and install electrical material and equipment for the Sanlando Lift Stations RTU Additions as shown on the plan sheets E-01 through E-14 and as called out in Section 16000 of the electrical specifications dated October 21, 2016.

TOTAL PRICE - \$ 258,500.00

This proposal may be withdrawn by us if not accepted within 30 days.

Respectfully submitted,



William P. Bahler
Project Manager

WPB

Proposal

Date	Proposal #
11/18/2016	1763

Name / Address
Lake Utility Services, Inc. Utilities Inc. of Florida Accounts Payable 200 Weathersfield Avenue Altamonte Springs, FL 32714

Ship To
Lake Utility Services, Inc. Utilities Inc. of Florida 200 Weathersfield Avenue Altamonte Springs FL 32714

Project	55 Sanlando Lift Stations		Terms	Net 15
Description	Qty	Cost	Total	
Materials for the modifications to existing PLC equipment and panels to be installed by others	1	8,542.00	8,542.00	
Remote Telemetry Unit including enclosers and relays	55	5,508.00	302,940.00	
Project management, documentation, Software, etc.	1	15,864.00	15,864.00	
Start up, testing and training	1	9,820.00	9,820.00	
Miscellaneous (not included in above items, including spare parts)	1	4,154.00	4,154.00	

Signature: _____

Estimate Total	\$341,320.00
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