

**TOWN OF SULLIVAN'S ISLAND**  
**WATER AND SEWER COMMITTEE OF COUNCIL**  
**MEETING MINUTES**  
**Thursday, May 23, 2019**  
**8:45 a.m.**

**1. Call to Order & Freedom of Information Act Requirements:**

The Water and Sewer Committee of Council met at 8:45 a.m. on Thursday, May 23, 2019 at Town Hall, all requirements of the Freedom of Information Act having been satisfied. Present were Council Committee members Mark Howard, Rita Langley and Bachman Smith, IV (Chair). Staff members present were Andy Benke, Jason Blanton and Greg Gress. There were no members of the public or media present.

Chair Smith called the meeting to order at 8:45 a.m., and stated the press and public were duly notified pursuant to State Law.

**2. Communications/Additional Items from WWTF Manager, Greg Gress: None.**

**3. Discussions/Motions:**

- a. Approval of Minutes- April 25, 2019.

**Motion was made by Councilmember Langley, seconded by Councilmember Howard, to approve the Water and Sewer Committee Minutes from April 25, 2019, carried unanimously.**

- b. Pump Station flood proofing project: Greg Gress presented the Sullivan's Island Lift Station Conversion Alternatives Analysis by WK Dickson (Attachment 1).

- c. Updates:

The Wastewater Treatment Plant Funding Timeline was reviewed (Attachment 2).

A Resolution to Increase Water and Sewer Fees for FY 20 was reviewed (Attachment 3).

Current and Potential Project Costs was reviewed (Attachment 4).

- d. Comply with Codification Review suggestions as to water shut-offs due to unpaid bills (on hold until after the Poe Avenue/Citadel Street sewer line replacement and budget season).

4. **Review of Active and Pending Projects:**

The current status of active and pending projects (a. through j. below) was reviewed.

- a. Poe Avenue/Citadel Street Sewer Line Replacement (work completed)
- b. Wastewater Treatment Plant Retrofit (design phase)
- c. Charleston CPW/ICW Water Main Project (originating in Stith Park)
- d. CCOD1 (Commercial Overlay District) sewer line extension on Sta. 20.5 from about Central to Middle Street
- e. CWS contract revisions
- f. I&I Phase II
- g. Cost Recovery Program
- h. Private Sewer Lateral Policy for I&I Reduction
- i. Submersible Pumps at lift stations
- j. ASR: Aquifer Storage and Recovery (explore use of Pre-Disaster Mitigation Grant funds)

5. **The next Water and Sewer Committee Meeting is scheduled for:** Thursday, June 27, 2019 8:45 a.m. at Sullivan's Island Town Hall.

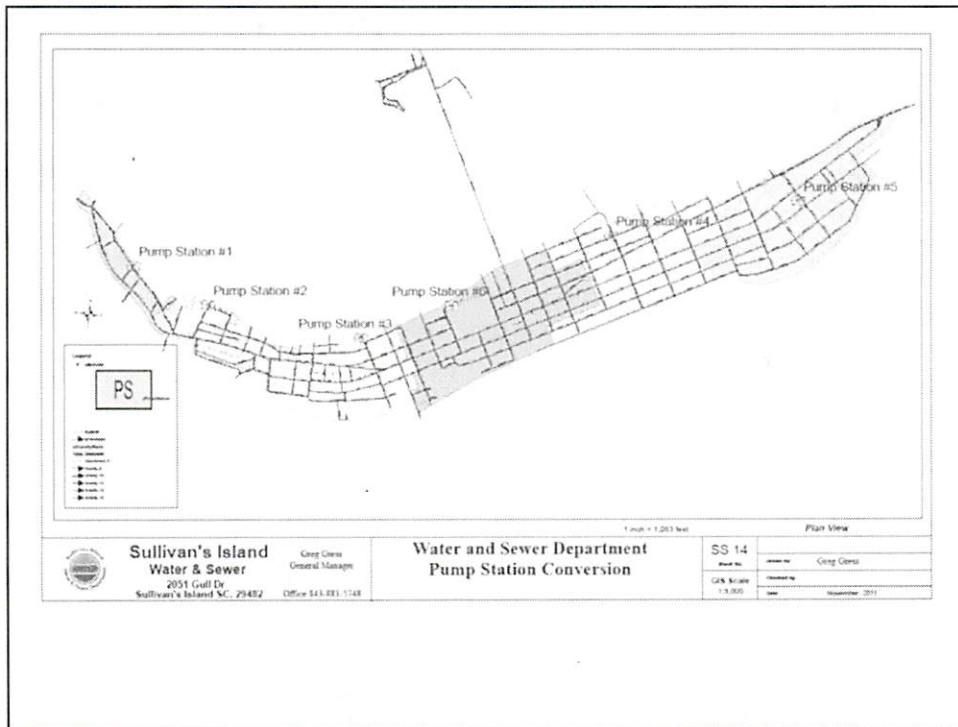
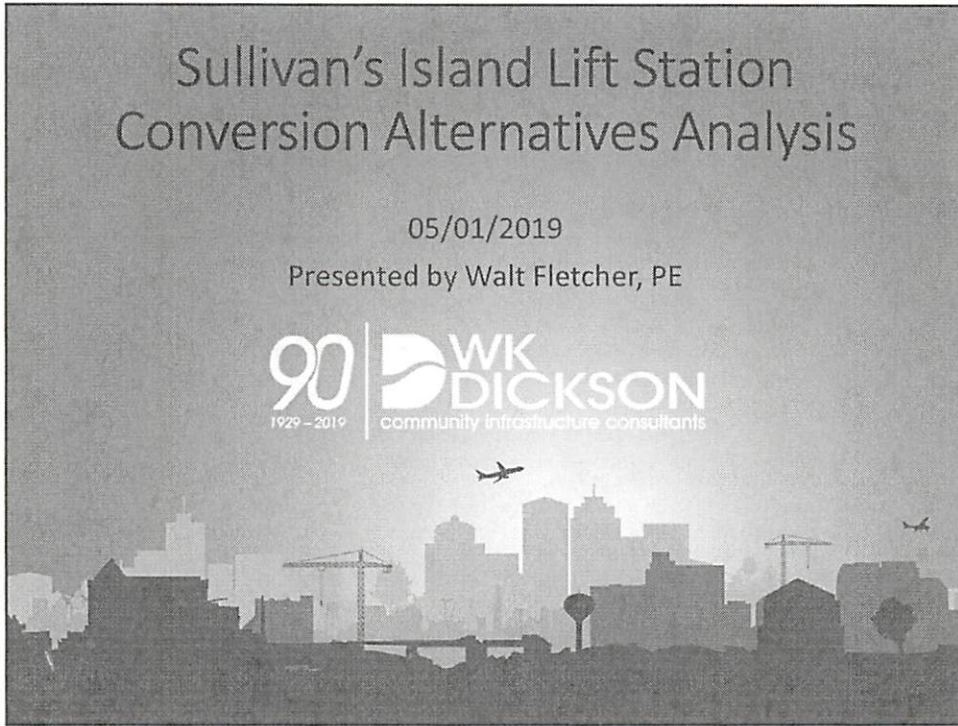
6. Chair Smith took a moment to thank Councilmembers Mark Howard and Rita Langley for their support on the Water and Sewer Committee.

7. **Adjournment:**

**Motion was made by Councilmember Langley, seconded by Councilmember Howard, to adjourn at 9:34 a.m., carried unanimously.**

Respectfully submitted,

  
Courtney Liles



## Lift Station Alternatives

- Retaining existing buildings is unfeasible with conversion to submersible pumps due to required height of electrical components to be above 100-yr flood elevation. Existing roof is too low.
- Alternative A – Use Existing Wet Well with Deeper Sump:
  - Demolish/remove existing building, floor slab, and wet well divider wall.
  - Reuse the existing wet well with a new concrete top slab for the conversion to a submersible pump station.
  - Install precast sump to increase the depth and eliminate surcharging of upstream collection system (except LS#3).
  - Electrical rack to be installed on a platform above 100-yr flood plain.
  - All piping and valves installed above grade
  - Privacy fence to be installed.
- Alternative B – Install New Adjacent Sump for Submersible Pumps
  - Install a new sump for submersible pumps adjacent to the existing building slab and connect to existing wet well.
  - Existing building to be demolished and new top slab to be constructed.
  - The new sump to be deeper than wet well bottom to eliminate surcharge of upstream collection system.
  - Electrical rack to be installed on a platform above 100-yr flood plain.
  - All piping and valves installed above grade
  - Privacy fence to be installed.

Sullivan's Island Lift Station Conversion Alternatives Analysis

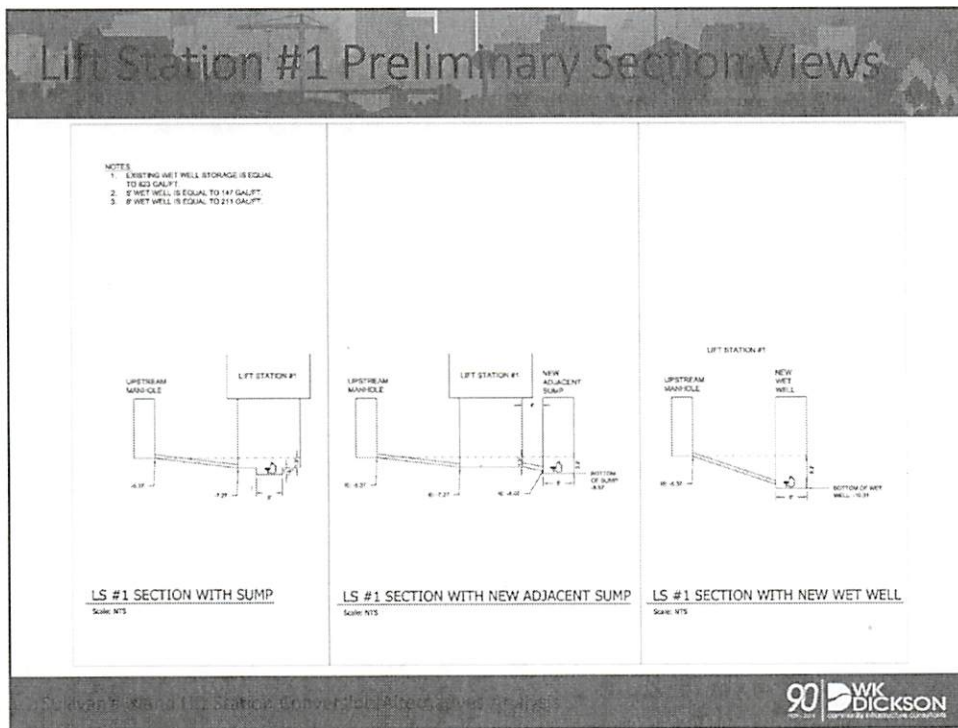


## Lift Station Alternatives

- Alternative C – Install New Wet Well
  - Install a new wet well and abandon existing wet well.
  - Existing building to be demolished and new top slab to be constructed.
  - The new wet well to be designed to eliminate surcharge of upstream collection system.
  - Electrical rack to be installed on a platform above 100-yr flood plain.
  - All piping and valves installed above grade
  - Privacy fence to be installed.

Sullivan's Island Lift Station Conversion Alternatives Analysis





## Lift Station #1 Preliminary Cost Estimate

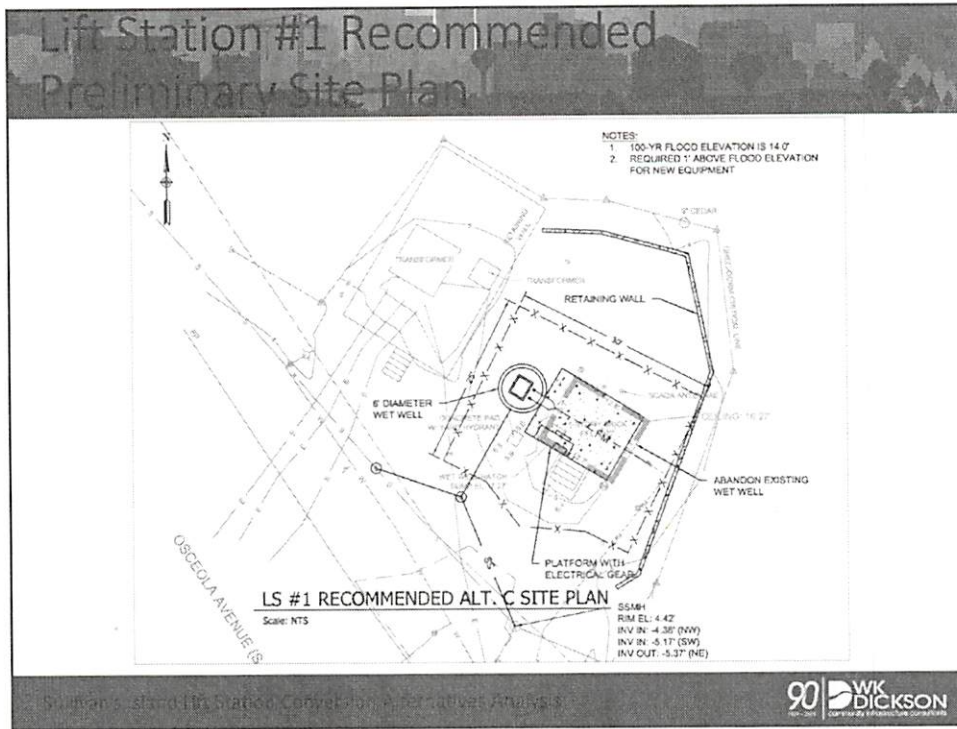
Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #1 Alternative A - Use Existing Wet Well w/ Deeper Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare system during construction	LS	\$ 15,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including piping, new pressure wet well sump, new post-tensioned floor slab, and flood proof hatch	LS	\$ 150,000.00
5	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 30,000.00
6	Replace Existing 6" CI Gravity Sewer with PVC	LS	\$ 14,000.00
7	Magnetic Flowmeter	LS	\$ 12,500.00
8	Retaining Wall	LS	\$ 75,000.00
9	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 9			\$ 303,500.00
Total (with Mobilization)			\$ 315,500.00
<b>Adder for Building</b>			
	Prefab Building	LS	\$ 20,000.00
	Explosion Proof Components	LS	\$ 20,000.00
Total			\$ 40,000.00

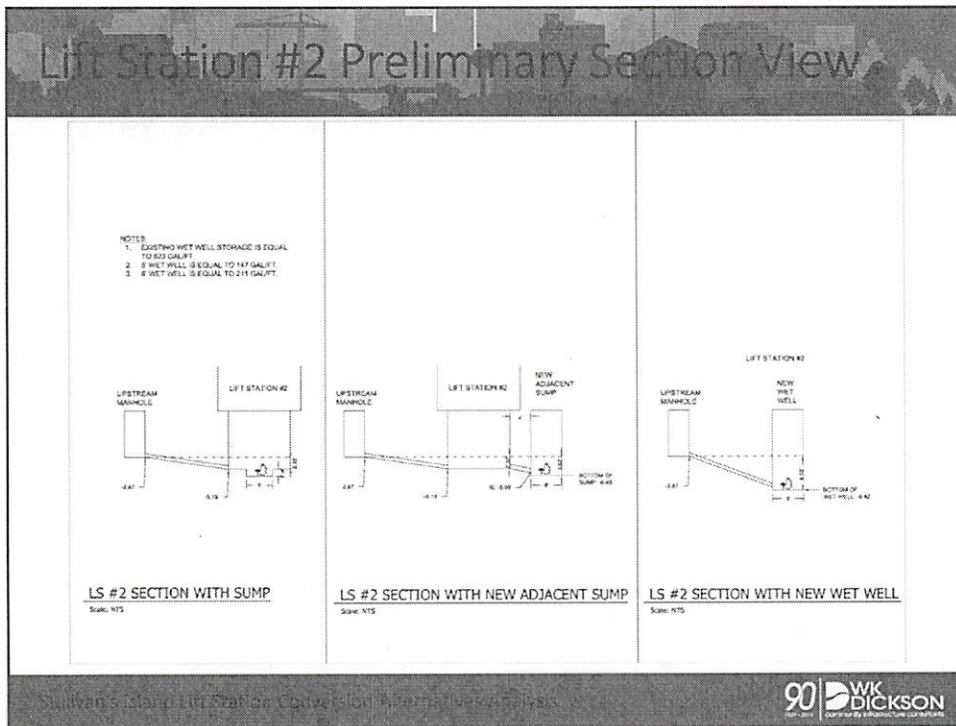
  

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #1 Alternative B - Install New Adjacent Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare system during construction	LS	\$ 15,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 175,000.00
5	5'-8" Diameter Pressure Sump	LS	\$ 90,000.00
6	Replace Existing 6" CI Gravity Sewer with PVC	LS	\$ 20,000.00
7	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 30,000.00
8	Magnetic Flowmeter	LS	\$ 12,500.00
9	Retaining Wall	LS	\$ 75,000.00
10	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 10			\$ 447,500.00
Total (with Mobilization)			\$ 459,500.00

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #1 Alternative C - Install New Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare system during construction	LS	\$ 15,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Abandonment of Existing Wet Well	LS	\$ 15,000.00
5	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 140,000.00
6	New 6'-8" Diameter Wet Well	LS	\$ 75,000.00
7	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 30,000.00
8	Replace Inflow Gravity Sewer	LS	\$ 20,000.00
9	Retaining Wall	LS	\$ 75,000.00
10	Magnetic Flowmeter	LS	\$ 12,500.00
11	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 11			\$ 462,500.00
Total (with Mobilization)			\$ 474,500.00





## Lift Station #2 Preliminary Cost Estimate

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #2 Alternative A - Use Existing Wet Well w/ Deeper Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 30,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including piping, new precast wet well sump, new poured in place top slab, and flood proof bench	LS	\$ 150,000.00
5	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
6	Replace Existing 8" CI Gravity Sewer with PVC	LS	\$ 1,000.00
7	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 7			\$ 490,000.00
Total (with Mobilization)			\$ 502,000.00

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #2 Alternative B - Install New Adjacent Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 30,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof bench	LS	\$ 175,000.00
5	5-ft Diameter Precast sump	LS	\$ 60,000.00
6	Replace Existing 8" CI Gravity Sewer with PVC	LS	\$ 1,000.00
7	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
8	Privacy Fence (PVC)	LS	\$ 8,000.00
Subtotal for items 2 through 8			\$ 363,000.00
Total (with Mobilization)			\$ 375,000.00

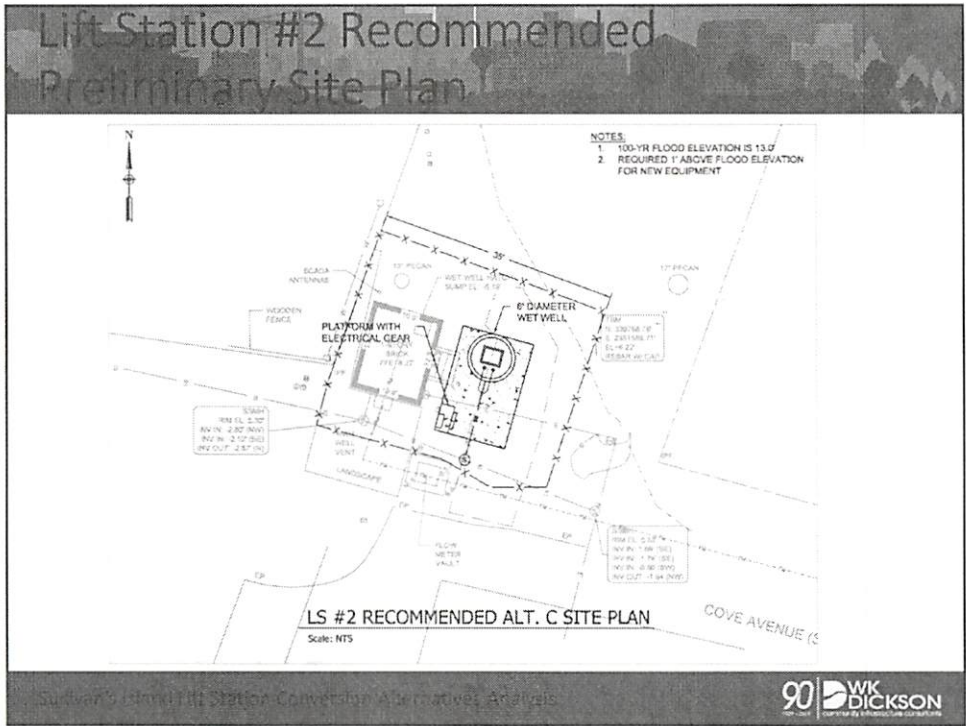
  

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #2 Alternative C - Install New Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 15,000.00
3	Settlement and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof bench	LS	\$ 150,000.00
5	Abandonment of Existing Wet Well	LS	\$ 15,000.00
6	New 6-ft Diameter Wet Well	LS	\$ 75,000.00
7	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
8	Replace 8" Inlet Gravity Sewer (PVC)	LS	\$ 15,000.00
9	Remove Force Main Relocate Flow Meter	LS	\$ 12,000.00
10	Privacy Fence (PVC)	LS	\$ 8,000.00
Subtotal for items 2 through 10			\$ 487,000.00
Total (with Mobilization)			\$ 499,000.00

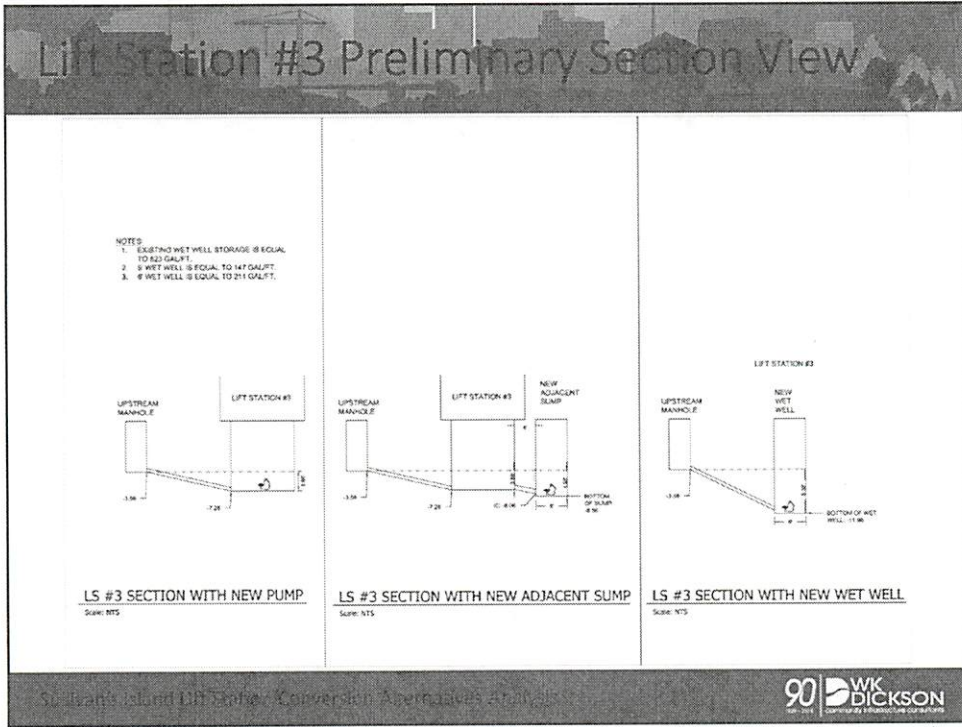
  

Adder for Building		
Prefab Building	LS	\$ 20,000.00
Explosion Proof Components	LS	\$ 20,000.00
<b>Total</b>		<b>\$ 40,000.00</b>

Sullivan Island Lift Station Conversion Alternative Analysis







## Lift Station #3 Preliminary Cost Estimate

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #3 Alternative A - Use Existing Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 35,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including opening new adjacent wet well sump, new concrete in place top slab, and flood proof hatch	LS	\$ 175,000.00
5	Base pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
6	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 6			\$ 324,000.00
Total with Mobilization			\$ 340,000.00

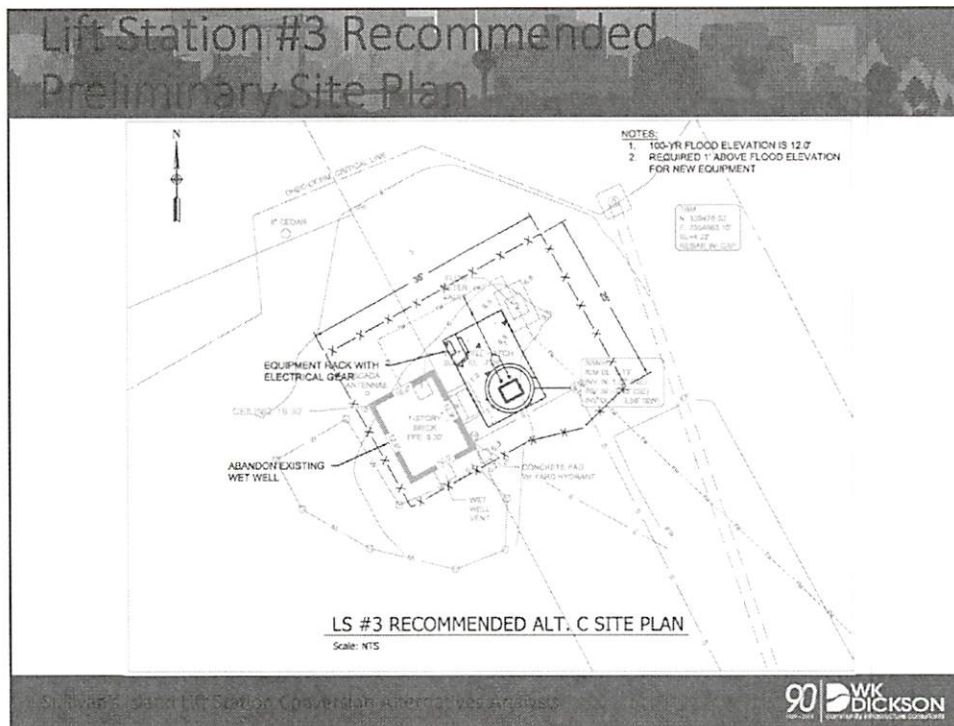
Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #3 Alternative B - Install New Adjacent Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 35,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 175,000.00
5	5-B Exhauster Precast setup	LS	\$ 90,000.00
6	Base pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
7	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 7			\$ 587,000.00
Total with Mobilization			\$ 600,000.00

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #3 Alternative C - Install New Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Bypass system during construction	LS	\$ 15,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 150,000.00
5	Abandonment of Existing Wet Well	LS	\$ 15,000.00
6	New Wet Well Enclosure Wet Well	LS	\$ 75,000.00
7	Base pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
8	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 8			\$ 542,000.00
Total with Mobilization			\$ 554,000.00

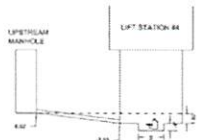
  

Adder for Building		
Prefab Building	LS	\$ 20,000.00
Explosion Proof Components	LS	\$ 20,000.00
<b>Total</b>		<b>\$ 40,000.00</b>



## Lift Station #4 Preliminary Section View

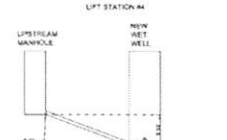
- NOTES:  
 1. EXISTING WET WELL STORAGE IS EQUAL TO 80 GALLONS  
 2. 8' WET WELL IS EQUAL TO 147 GALLONS  
 3. 6' WET WELL IS EQUAL TO 91 GALLONS



LS #4 SECTION WITH SUMP  
 Scale: NTS



LS #4 SECTION WITH NEW ADJACENT SUMP  
 Scale: NTS



LS #4 SECTION WITH NEW WET WELL  
 Scale: NTS

Stallman's Standard Lift Station Conversion Alternatives Analysis



## Lift Station #4 Preliminary Cost Estimate

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #4 Alternative A - Use Existing Wet Well w/ Deeper Pump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare existing during construction	LS	\$ 20,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including piping, new precast wet well using new panels in place top slab, and flood proof hatch	LS	\$ 150,000.00
5	Basin pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
6	Privacy Fence	LS	\$ 8,000.00
Subtotal for items 2 through 6			\$ 407,000.00
Total (with Mobilization)			\$ 449,000.00

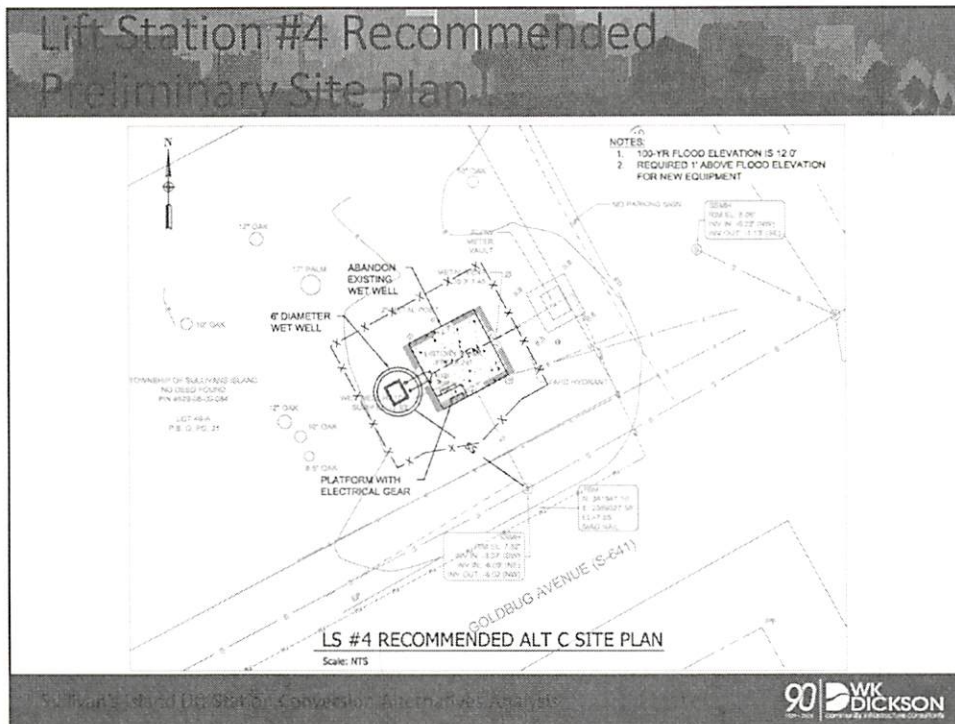
Adder for Building		
Prefab Building	LS	\$ 20,000.00
Explosion Proof Components	LS	\$ 20,000.00
		<b>Total \$ 40,000.00</b>

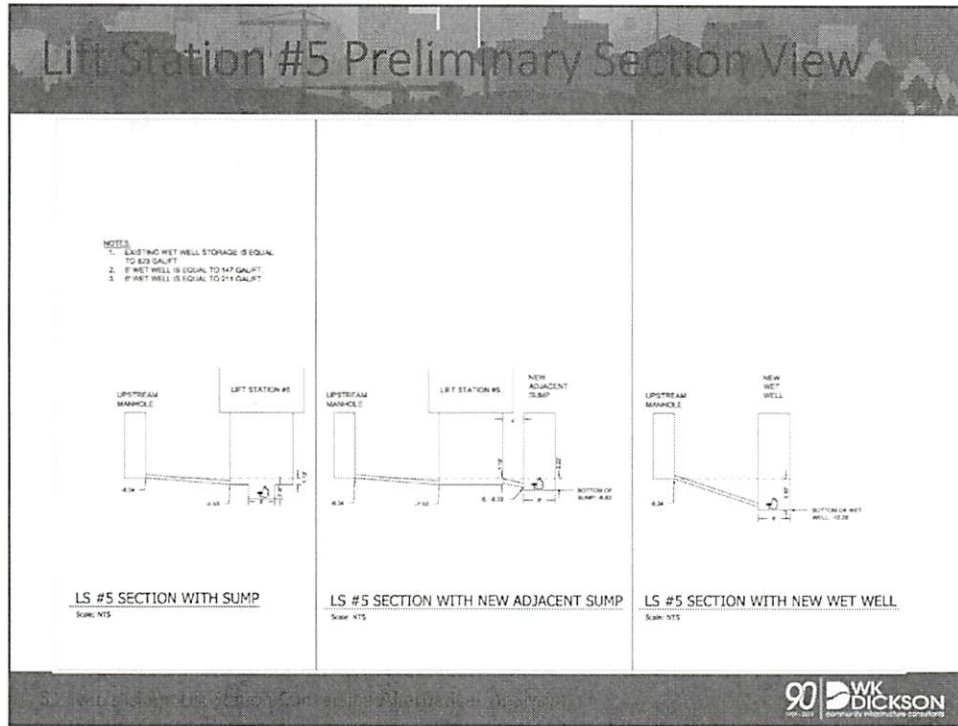
Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #4 Alternative B - Install New Adjacent Pump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare existing during construction	LS	\$ 19,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 175,000.00
5	6" Diameter Precast sump	LS	\$ 20,000.00
6	Basin pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
7	Privacy Fence (PVC)	LS	\$ 8,000.00
Subtotal for items 2 through 7			\$ 377,000.00
Total (with Mobilization)			\$ 409,000.00

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #4 Alternative C - Install New Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepare existing during construction	LS	\$ 15,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 150,000.00
5	Abandonment of Existing Wet Well	LS	\$ 15,000.00
6	New 6" Diameter Wet Well	LS	\$ 75,000.00
7	Basin pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
8	6" Inverse W' Influent Gravity Sewer (PVC)	LS	\$ 10,000.00
9	Privacy Fence (PVC)	LS	\$ 8,000.00
Subtotal for items 2 through 9			\$ 537,000.00
Total (with Mobilization)			\$ 589,000.00

Stallman's Standard Lift Station Conversion Alternatives Analysis







## Lift Station #5 Preliminary Cost Estimate

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #5 Alternative A - Use Existing Wet Well w/ Deeper Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepaw system during construction	LS	\$ 15,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including piping, new precast wet well sump, new pumphouse in place up-slab, and flood proof hatch	LS	\$ 150,000.00
5	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
6	Privacy Fence	LS	\$ 8,000.00
			Schedule for items 2 through 6
			\$ 487,000.00
			Total (with Mobilization)
			\$ 649,000.00

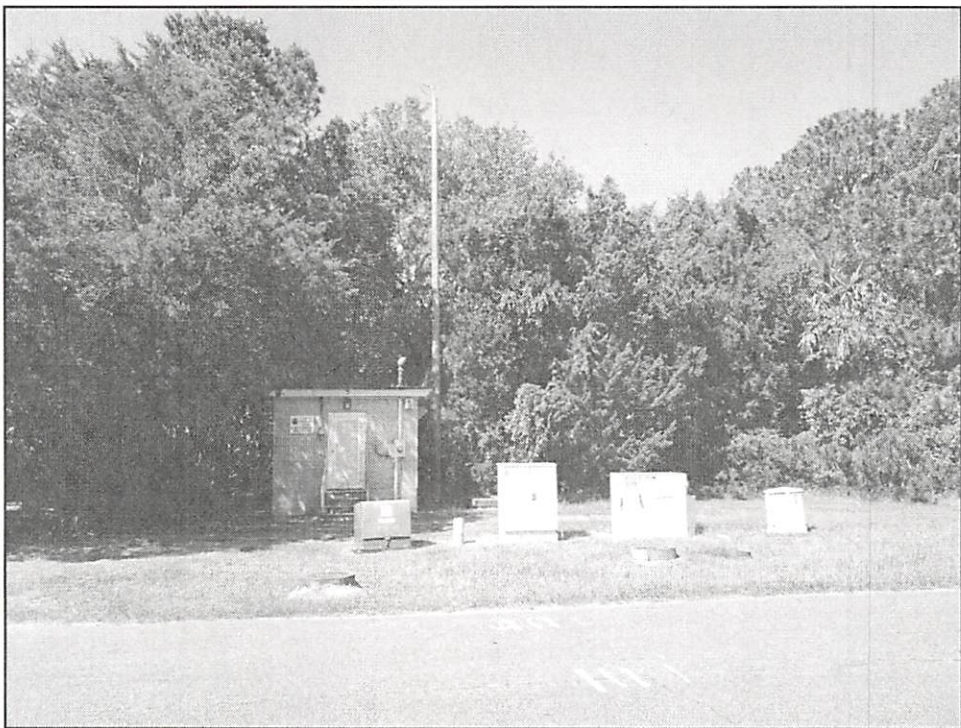
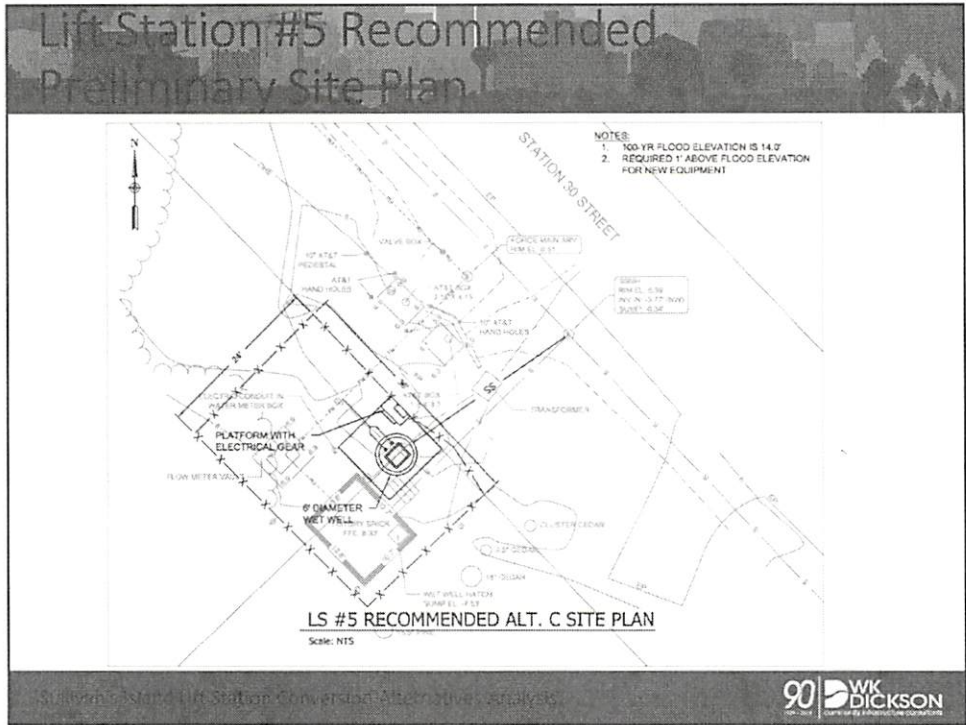
Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #5 Alternative B - Install New Adjacent Sump</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepaw system during construction	LS	\$ 15,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 175,000.00
5	54" Diameter Precast sump	LS	\$ 90,000.00
6	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
7	Privacy Fence (PVC)	LS	\$ 8,000.00
			Schedule for items 2 through 7
			\$ 577,000.00
			Total (with Mobilization)
			\$ 829,000.00

Item No.	Item Description	Unit	Total Bid Price
<b>Lift Station #5 Alternative C - Install New Wet Well</b>			
1	Mobilization	LS	\$ 12,000.00
2	Prepaw system during construction	LS	\$ 15,000.00
3	Sediment and Erosion Control	LS	\$ 4,000.00
4	Conversion to submersible pumps, including new concrete slab and flood proof hatch	LS	\$ 150,000.00
5	Abandonment of Existing Wet Well	LS	\$ 15,000.00
6	New 18" Diameter Wet Well	LS	\$ 75,000.00
7	Raise pump control panel and other electrical equipment, including concrete platform	LS	\$ 75,000.00
8	Remove 4" Influent County Sewer (PVC)	LS	\$ 10,000.00
9	Privacy Fence (PVC)	LS	\$ 8,000.00
			Schedule for items 2 through 9
			\$ 637,000.00
			Total (with Mobilization)
			\$ 894,000.00

Adder for Building		
Prefab Building	LS	\$ 20,000.00
Explosion Proof Components	LS	\$ 20,000.00
<b>Total</b>		<b>\$ 40,000.00</b>



## Summary of Analysis

### Considerations:

- Overall cost of upgrade for EACH lift station and individual alternatives
- Proximity to residence for feasible construction
- Capacity of site to accommodate construction materials and spoils.
- Bypass pumping during construction

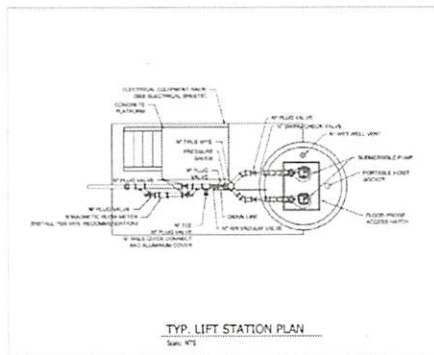
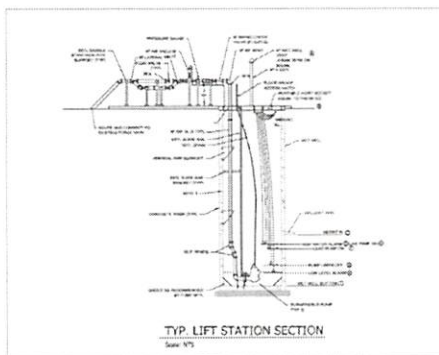
Lift Station	Alternative	Cost
1	C	\$416,500.00
2	C	\$379,000.00
3	C	\$354,000.00
4	C	\$364,000.00
5	C	\$364,000.00
TOTAL		\$1,877,500.00

Sullivan's Island Lift Station Conversion Alternatives Analysis



## Additional Notes

### Typical Lift Station Design:

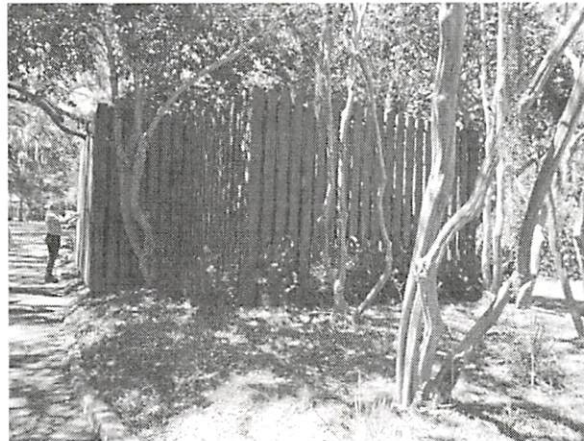


Sullivan's Island Lift Station Conversion Alternatives Analysis



## Additional Notes

Privacy Fence for Seabrook Island Utility Commission:

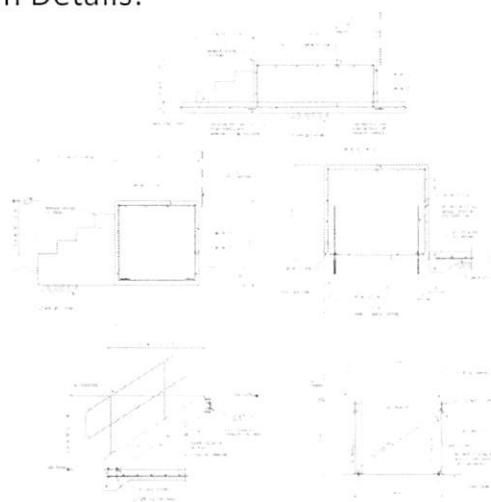


Seabrook Island Lift Station Conversion Alternatives Analysis



## Additional Notes

Platform Details:



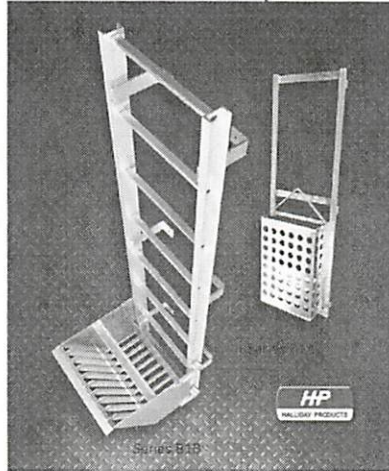
Seabrook Island Lift Station Conversion Alternatives Analysis





## Additional Notes

### Debris Basket Options:



- Halliday Debris Baskets
  - Series B1A: 316 SST
  - Cost: ~\$1,600 per station (installed)

Submit a bid for Station 10 on the attached drawings.



## Additional Notes

### Approach Pipe

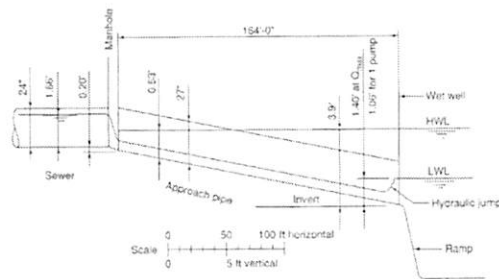


Figure 12-26. Sketch of approach pipe

Series B1B

Submit a bid for Station 10 on the attached drawings.





**A RESOLUTION TO INCREASE WATER AND SEWER FEES  
For FY20**

**WHEREAS**, the water and sewer fees should cover for the expense incurred by the Town when service is provided; and,

**WHEREAS**, one residential equivalent unit is equal to six thousand two hundred gallons (6,200 gls)

**WHEREAS**, it is necessary from time-to-time to raise such rates to more accurately reflect said expenses;

**NOW, THEREFORE, BE IT RESOLVED** that Town Council, in a meeting duly assembled revises and establishes the following rates and fees for water and sewer service:

**1. Monthly Fixed Charges                      Water, Irrigation & Water Only                      Sewer**

*All customer accounts are assigned Residential Equivalent Units (REU).  
One REU = 6,200 gls for purposes of determining Nonresidential customers REU's.  
REU's assigned to Nonresidential customers will be based on usage levels during peak season (May – September). (to be reviewed triennially).  
Residential Multifamily customers will be assigned 1 REU for the first dwelling unit + .5 REU for each additional dwelling unit.*

Base Charge per REU	<del>18.82</del> <u>19.03</u>	<del>31.29</del> <u>31.47</u>
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**2. Variable Usage Rates                      Water, Irrigation & Water Only                      Sewer**

		Per 1,000 gallons	Per 1,000 gallons
<b>Water Usage Rates</b>			
0 to 4,000 gls	Essential Usage Rate	<del>3.09</del> <u>3.10</u>	<del>8.36</del> <u>8.84</u>
4,000 to 8,000 gls	Average Rate	<del>6.70</del> <u>6.73</u>	<del>10.19</del> <u>10.78</u>
> 8,000 gls	Discretionary Usage Rate	<del>11.19</del> <u>11.24</u>	<del>17.23</del> <u>18.22</u>
<b>Drought Surcharge Rates</b>			
0 to 4,000 gls	Essential Usage Rate	<del>3.09</del> <u>3.10</u>	<del>8.36</del> <u>8.84</u>
4,000 to 8,000 gls	Average Rate	<del>10.05</del> <u>10.09</u>	<del>10.19</del> <u>10.78</u>
> 8,000 gls	Discretionary Usage Rate	<del>16.78</del> <u>16.86</u>	<del>17.23</del> <u>18.22</u>

3. **HYDRANT METER**

*Due at time meter is picked up*

- A. **Permit Fee**  
5/8"-3/4" \$100.00  
2" \$250.00
- B. **Security Deposit**  
*Refunded upon return of meter with no unpaid balance*  
5/8"-3/4" \$250.00  
2" \$850.00
- D. **Volumetric Rate/1000 gals**  
*Same as Water Rates*

4. **MISCELLANEOUS CUSTOMER CHARGES:**

- A. **Delinquent Customer Fee \$1+1.5%**  
*(Late if not paid 15 days following rendition) 1.5% charged per month on balance due*
- B. **Deferred Payment Agreement Fee \$10+1.5% of Balance**
- C. **Returned Check Fee**  
1 check returned \$35.00  
2 checks returned \$35.00  
*(After 2 checks returned, cash only will be accepted)*
- D. **Late Fee (Penalty) \$10.00**  
*If not paid by 15<sup>th</sup> of month following rendition*
- E. **Delinquent Service**  
**Non Payment Fee \$50**
- F. **Service Call (Not SI's responsibility)**  
Monday – Friday 8:00am to 5:00pm \$30.00  
All other hours \$80.00
- G. **Meter Reread/Check for Leak \$30.00 (Original reading correct)**
- H. **Meter Test 5/8"-3/4" \$100**
- I. **Sewer Adjustment Investigation Fee \$50.00**
- J. **Construction Services**

**Demolition:**

**Removal of water meter \$50.00 plus cost for tree/structure removal.**

**Cap sewer \$900.00 plus cost for tree/structure removal**

**Inspection fee for disconnect or reconnect from system ~~\$100.00~~\$150**

**Re-inspection fee \$50**

- K. **Septage Tipping Fee (per 100 gals) \$7.00/100 gals**  
Sludge Dewatering & Disposal Fee \$60.00/1,000 gals
- L. **Damaged Meter**  
Cut Wire \$30.00  
5/8"  
Replace Customer Shut-Off \$80.00  
Replace Meter Box Lid \$50.00  
Replace Meter Box Top \$90.00

Replace Meter Box ~~\$250.00~~\$300  
Replace Register & Touch Read System ~~\$155.00~~\$200  
Replace Complete Meter & Box ~~\$440.00~~\$490

1"  
Replace Customer Shut-Off \$110.00  
Replace Meter Box Lid \$55.00  
Replace Meter Box \$405.00  
Replace Register & Touch Read System \$240.00  
Replace Complete Meter & Box \$714.00  
1 1/2" to 2"

Replace Customer Shut-Off \$245.00  
Replace Meter Box Lid \$92.00  
Replace Meter Box \$450.00  
Replace Register & Touch Read System \$294.00  
Replace Complete Meter & Box \$1200.00

M. **Bacteriological Testing For Water Samples** \$40.00

N. **Cross-Connection Services:**

Application fee for permit to install Backflow Device \$60.00  
Inspection for Backflow Device Installations (*per device*) \$50.00  
Annual Backflow Device Testing (*Per device*) \$50.00

O. ~~O.~~ **Grease Trap Inspection Fee** (*per inspection*) \$50.00

**Grease Trap Application fee \$80**

~~O.P.~~ **Damaged Sewer Clean Out**

Replace Clean Out Lid \$35.00  
Replace Clean Out Riser \$100.00  
Replace Clean Out Protector Ring \$160.00  
Install 6" Double Sweep Clean Out \$1,400.00 plus cost for tree/structure removal

5. **ACCOUNT, CONNECTION & DISCONNECTION FEES:**

A. **Renter's Security Deposit** \$300.00

B. **Security Deposits Construction Water Only Accounts** \$300.00  
*Volumetric Rate/1000 gals for Water Only Same as Water Rates*

C. **Security Deposit Dock Only Accounts** \$1,000.00

D. **New Account Fee**

*Non refundable*

Water Only \$30.00

Water and Wastewater \$60.00

E. **Transfer Account Fee** \$25.00

F. **Final Bill Reading** \$30.00

G. **Water Re-Connect Fee** \$100.00

*After a meter removal*

H. **Water Meter Connection Fee:** (*if no service line to property exists*)

5/8"-3/4" \$920.00+ Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut,  
or Bore

1" \$1720.00 + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or  
Bore

1-1/2" \$2950.00 + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or Bore

2" \$3500.00 + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or Bore

3" \$5500.00 + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or Bore

**I. Unmetered Private Fire Line Tie-In Application & Inspection Fee**

\$150.00

*(Actual cost to install will be the applicants' responsibility)*

**J. Wastewater Permit Application Fee \$60.00**

**K.** *left blank*

**L. Wastewater Tap Fee: *(if no service line to property exists)***

6" \$3,700.00 + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or Bore

6" \$700.00 *(if service line to property exists)*

8" Actual Cost + Street Cut & Restoration, [Street Mill & Fill](#), Sidewalk & Curb Cut, or Bore

**M. Wastewater Re-Connect Fee \$100.00**

*After a disconnect*

**N.** Street Cut & Restoration for 5/8" to 3" Water Connection ~~\$3,000.00~~ [\\$1,000](#)

**O.** Street Cut & Restoration for 4" to 6" Sewer Connection ~~\$3,000.00~~ [\\$1,000](#)

**P.** Sidewalk / Curb Cut for items H, I & L above \$800.00

**Q.** Bore for up to 4" pipe 100 feet long \$1700.00

**R.** [Street Mill & Fill \\$2,000](#)

**RESOLVED** this 18th day of ~~September~~ [June](#), 2018.

Town of Sullivan's Island

\_\_\_\_\_  
Pat O'Neil, Mayor

Attest:

\_\_\_\_\_  
Courtney Liles, Town Clerk

**A RESOLUTION TO INCREASE WATER AND SEWER FEES  
For FY20**

**WHEREAS**, the water and sewer fees should cover for the expense incurred by the Town when service is provided; and,

**WHEREAS**, one residential equivalent unit is equal to six thousand two hundred gallons (6,200 gls)

**WHEREAS**, it is necessary from time-to-time to raise such rates to more accurately reflect said expenses;

**NOW, THEREFORE, BE IT RESOLVED** that Town Council, in a meeting duly assembled revises and establishes the following rates and fees for water and sewer service:

**1. Monthly Fixed Charges                      Water, Irrigation & Water Only                      Sewer**

*All customer accounts are assigned Residential Equivalent Units (REU).*

*One REU = 6,200 gls for purposes of determining Nonresidential customers REU's.*

*REU's assigned to Nonresidential customers will be based on usage levels during peak season (May – September). (to be reviewed triennially).*

*Residential Multifamily customers will be assigned 1 REU for the first dwelling unit + .5 REU for each additional dwelling unit.*

Base Charge per REU	19.03	31.47
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**2. Variable Usage Rates                      Water, Irrigation & Water Only                      Sewer**

	Per 1,000 gallons	Per 1,000 gallons
<b>Water Usage Rates</b>		
0 to 4,000 gls      Essential Usage Rate	3.10	8.84
4,000 to 8,000 gls      Average Rate	6.73	10.78
> 8,000 gls      Discretionary Usage Rate	11.24	18.22
<b>Drought Surcharge Rates</b>		
0 to 4,000 gls      Essential Usage Rate	3.10	8.84
4,000 to 8,000 gls      Average Rate	10.09	10.78
> 8,000 gls      Discretionary Usage Rate	16.86	18.22

3. **HYDRANT METER**

*Due at time meter is picked up*

A. **Permit Fee**

5/8"-3/4" \$100.00

2" \$250.00

B. **Security Deposit**

*Refunded upon return of meter with no unpaid balance*

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D. **Volumetric Rate/1000 gals**

*Same as Water Rates*

4. **MISCELLANEOUS CUSTOMER CHARGES:**

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*(Late if not paid 15 days following rendition) 1.5% charged per month on balance due*

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1 check returned \$35.00

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*(After 2 checks returned, cash only will be accepted)*

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E. **Delinquent Service**

**Non Payment Fee \$50**

F. **Service Call (Not SI's responsibility)**

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All other hours \$80.00

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H. **Meter Test 5/8"-3/4" \$100**

I. **Sewer Adjustment Investigation Fee \$50.00**

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**Re-inspection fee \$50**

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L. **Damaged Meter**

Cut Wire \$30.00

5/8"

Replace Customer Shut-Off \$80.00

Replace Meter Box Lid \$50.00

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Replace Meter Box \$300  
Replace Register & Touch Read System \$200  
Replace Complete Meter & Box \$490  
1"  
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Replace Meter Box Lid \$55.00  
Replace Meter Box \$405.00  
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G. **Water Re-Connect Fee** \$100.00

*After a meter removal*

H. **Water Meter Connection Fee:** (*if no service line to property exists*)

5/8"-3/4" \$920.00+ Street Cut & Restoration, Street Mill & Fill, Sidewalk & Curb Cut,  
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1" \$1720.00 + Street Cut & Restoration, Street Mill & Fill, Sidewalk & Curb Cut, or  
Bore

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2" \$3500.00 + Street Cut & Restoration, Street Mill & Fill, Sidewalk & Curb Cut, or Bore

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6" \$700.00 *(if service line to property exists)*

8" Actual Cost + Street Cut & Restoration, Street Mill & Fill, Sidewalk & Curb Cut, or Bore

**M. Wastewater Re-Connect Fee \$100.00**

*After a disconnect*

**N.** Street Cut & Restoration for 5/8" to 3" Water Connection \$1,000

**O.** Street Cut & Restoration for 4" to 6" Sewer Connection \$1,000

**P.** Sidewalk / Curb Cut for items H, I & L above \$800.00

**Q.** Bore for up to 4" pipe 100 feet long \$1700.00

**R.** Street Mill & Fill \$2,000

**RESOLVED** this 18th day of June, 2018.

Town of Sullivan's Island

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Pat O'Neil, Mayor

Attest:

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Courtney Liles, Town Clerk

# Attachment 4

## Installment Purchase Revenue Bond

\$20,000,000.00      Lot sale funds  
\$2,300,000.00

Project	PO Number	Original Project Amount	Revised Project Quote	Project Balance
WWTP		\$ 12,000,000.00	\$ 12,434,325	\$ 11,461,474.63
I&I Phase II		\$ 4,500,000.00	\$ 4,577,245	\$ 2,681,783.29
CCOD #2 Sewer			\$ 305,520	\$ 300,852.93
Pump Station Floodproofing		\$ 3,500,000.00	\$ 3,500,000	\$ 3,467,219.00
		\$ 20,000,000.00	\$ 20,511,569.40	\$ 17,610,476.92

**Request for Payment from Bond Proceeds**

Req#	Date Submitted	Amount		
<u>1</u>	09/13/18	\$ 399,041.88	HDR	WWTP Design
<u>2</u>	10/08/18	\$ 28,209.54	HDR	WWTP Design
<u>3</u>	11/26/18	\$ 85,272.12	HDR	WWTP Design
<u>4</u>	12/12/18	\$ 76,572.37	HDR	WWTP Design
<u>5</u>	01/21/19	\$ 75,257.31	HDR	WWTP Design
<u>6</u>	01/23/19	\$ 591,073.35	1 Arcadis	I&I Phase II
<u>7</u>	03/12/19	\$ 135,059.68	HDR	WWTP Design
<u>8</u>	03/12/19	\$ 330,325.36	2 Arcadis	I&I Phase II
<u>9</u>	03/22/19	\$ 22,860.44	HDR	WWTP Design
<u>10</u>	04/16/19	\$ 595,681.74	3 Arcadis	I&I Phase II
<u>11</u>	04/16/19	\$ 4,587.92	HDR	WWTP Design
<u>12</u>	04/24/19	\$ 325,431.58	4 Arcadis	I&I Phase II
13				
14				
15				
16				
17				
18				
19				
20				

\$ 2,669,373.29

as of	Paid	4/24/2019	\$ 826,861.26	HDR	WWTP Design
as of	Paid	4/24/2019	\$ 1,842,512.03	Arcadis	I&I Phase II

\$ 2,669,373.29

# WWTP 100% Opinion of Probable Construction Cost

Updated 4/25/2019

Additional Engineering costs outside of contract

Civil	\$	923,380.00		
Influent Pump Station	\$	303,990.00		
Headworks	\$	1,083,060.00		
Oxidation Ditches	\$	1,834,690.00		
Secondary Clarifiers	\$	366,020.00		
Chlorine Contact Basin	\$	22,000.00		
Elevated Equipment Building	\$	1,220,910.00		
Control Building	\$	361,670.00		
Administration Building	\$	4,690.00		
Instrumentation	\$	273,890.00		
Electrical	\$	371,890.00		
	\$	6,766,190.00		
Pole Barn (to be done outside this contract)	\$	-	\$	300,000.00
2 New Clarifier Drives (pre purchased outside this contract)	\$	-	\$	47,818.30
2 New Chlorine Contact Basin Mixers (pre purchased outside this contract)	\$	-	\$	8,698.00
Service crane for F350 (for pulling new inf pumps for service)			\$	18,576.00
New sludge and blower panels			\$	37,828.62
<b>Total Direct Costs</b>	\$	6,766,190.00	\$	412,920.92
<b>ALLOWANCES</b>				
Business Licenses fro Town	\$	100,000.00		
System Integrator	\$	575,000.00		
Testing & Inspections	\$	76,516.00		
Irrigation System Design	\$	50,000.00		
	\$	801,516.00		
Contractors Overhead, General Conditions, Mobilization	12%	\$	811,942.80	
Sales Tax	9%	\$	340,550.00	
<b>Subtotal</b>	\$	8,720,198.80		
Escalation to Mid-Point of Construction (mid - 2019)	3%	\$	224,460.00	
Contractor's Fee (Profit)	10%	\$	748,190.00	
Bonds and Insurance	1.50%	\$	112,230.00	
Contingency	10%	\$	872,019.88	
<b>Total Construction Cost</b>	\$	10,677,098.68		
Engineering	\$	1,188,008.00		
Amendment #1	\$	39,943.00		
Amendment #2	\$	96,000.00		
Amendment #3	\$	20,354.00		
Amendment #4 (add 6 m onsite inspection & const mgmt)	\$	205,611.00		
	\$	1,549,916.00		
<b>Subtotal Project Cost</b>	\$	12,227,014.68		
costs outside of contract	\$		\$	412,920.92

WWTP Project

	Lot sale funds remaining			Project Fund Balance	
	\$20,000,000.00	\$2,300,000.00	\$22,300,000.00	\$11,461,474.63	
Contractor Name	PO Number	Original PO Amount	Invoice#	Invoice Amount	PO Balance
HDR FEMA Application					
HDR answer FEMA RFI			\$1.00		
HDR Phase I not paid by FEMA					
HDR Design	1800991	\$ 1,344,305.00	1200130634	\$ 227,317.99	\$1,116,987.01
			1200138372	\$ 171,723.89	\$945,263.12
			1200143748	\$ 28,209.54	\$917,053.58
Add add scope items	Adendum #1 signed \$39,943		1200148311	\$ 23,113.78	\$893,939.80
			1200143748	\$ 23,209.54	\$870,730.26
	Adendum #2 signed \$96,000		1200152827	\$ 62,158.34	\$808,571.92
			1200158683	\$ 76,572.37	\$731,999.55
			1200164710	\$ 75,257.31	\$656,742.24
			1200172354	\$ 135,059.68	\$521,682.56
			1200177879	\$ 22,860.44	\$498,822.12
			1200183591	\$ 4,587.92	\$494,234.20
	Adendum #2 signed \$20,354		1200188938	\$ 2,728.25	\$491,505.95
Bundy McDonald					
	1/19/2018		10269	\$ 800.00	
	3/21/2018		10290	\$ 4,255.00	
	5/11/2018		10349	\$ 1,925.00	
	7/27/2018		10388	\$ 150.00	
Construction		\$ 10,677,098.68	1		
			2		
			3		
			4		
			5		
			6		
			7		
			8		
Pole Barn (to be done outside this contract)		\$ 300,000.00			
2 New Clarifier Drives (pre purchased outside this contract)	1801631	\$ 47,818.30	8475247	\$ 47,818.30	
2 New Chlorine Contact Basin Mixers (pre purchased outside this contract)	1801535	\$ 8,698.00	123212	\$ 8,698.00	
Service crane for F350 (for pulling new inf pumps for service)	1802189	\$ 17,200.00	20064238	\$ 18,576.00	
New sludge and blower panels (MR Systems installed 3/29/19)	1802038	\$ 37,828.62	8777-SG	\$ 37,828.62	
Total Costs outside of Contract		\$ 412,920.92			
	Total	\$12,434,324.60		\$972,849.97	

# Poe & Citadel Sewer Project

Lot sale funds remaining				Project Fund Balance	
\$2,300,000.00				\$756.52	
Contractor Name	PO Number	Original PO Amount	Invoice#	Invoice Amount	PO Balance
URS Design	1800756	\$ 70,700.00	2000030207	\$ 10,370.76	\$60,329.24
			2000044929	\$ 16,348.77	\$43,980.47
			2000086729	\$ 15,462.33	\$28,518.14
			2000100861	\$ 3,939.61	\$24,578.53
			2000112704	\$ 830.50	\$23,748.03
			2000141292	\$ 4,307.32	\$19,440.71
			2000152243	\$ 5,893.01	\$13,547.70
			2000165964	\$ 5,648.82	\$7,898.88
			2000174276	\$ 2,411.75	\$5,487.13
			2000182389	\$ 2,000.00	\$3,487.13
Yellowstone Clear ROW	1801149	\$ 12,933.34	1	\$ 14,784.95	
ARS Replumb 1706 Poe	1801547	\$ 1,314.00	1	\$ 1,314.00	
ARS Replumb 1715 Middle	190	\$ 2,700.00	2077125	\$ 2,590.00	
Maner Building Supply Fence	1801532	\$ 7,380.00	3304491	\$ 8,460.00	
Carol Antman Fire pit	1801811	\$ 8,000.00		\$ 8,000.00	
Bill Watson Sod ROW	1801979	\$ 4,950.00	1763	\$ 4,459.00	
Mahoney Sign	1801921	\$ 872.00		\$ 872.00	
Mr Rooter private side sewers	1801855	\$ 32,090.20		\$ 32,090.20	
Bundy Mr. Rooter			10567	\$ 500.00	
Moore Landscaping 1723 Middle	1902426	\$ 748.00		\$ 748.00	
Yardworks	1902450	\$ 1,175.62	2272019	\$ 1,175.62	
RH More Construction		\$ 404,433.00	Pay Req #1	\$ 106,992.57	\$297,440.43
			Pay Req #2	\$ 114,298.15	\$183,142.28
Chang Order #1 private services		\$ 139,400.00			\$322,542.28
			Pay Req #3	\$ 158,769.13	\$163,773.15
Pay request had net qty overages		\$ 9,988.00	Pay Req #4	\$ 142,936.81	\$30,824.34
Change Ored #2		\$ 17,875.00			\$48,699.34
			Pay Req #5	\$ 48,599.34	\$100.00
		\$ 543,833.00			
		\$ 714,559.16		\$ 713,802.64	\$756.52
URS Design for CCOD#2		\$ 36,400.00	2000182389	\$ 4,667.07	\$31,732.93
Additional sewer along Sta 20.5		\$ 269,120.00			
Additional sewer along Middle to Sta 21					
		\$ 305,520.00		\$ 4,667.07	\$300,852.93

## I&I Phase II Project

		Lot sale funds remaining		Project Fund Balance	
	\$20,000,000.00		\$2,300,000.00		\$2,681,783.29
Contractor Name	PO Number	Original PO Amount	Invoice#	Invoice Amount	PO Balance
Arcadis		\$ 5,965,092.00		1 \$ 276,416.75	\$5,688,675.25
				2 \$ 314,656.40	\$5,374,018.85
				3 \$ 330,325.36	\$5,043,693.49
				4 \$ 595,681.74	\$4,448,011.75
				5 \$ 325,431.58	\$4,122,580.17
		\$ 4,426,896.00		6	
Bundy Arcadis				\$ 245.00	
Mahoney Sign	1802027	\$ 348.80			
Dun Right MH Rehab	1801890	\$ 75,000.00	3718	\$ 52,704.68	\$22,295.32
					\$0.00
Bionomics MH Rehab	1801889	\$ 75,000.00			
XPR's ???		\$ -			
In House CIPPR		\$ -			
		\$ 4,577,244.80		\$ 1,895,461.51	



# Pump Station Floodproofing Project

	Lot sale funds remaining			Project Fund Balance	
\$20,000,000.00	\$2,300,000.00	\$22,300,000.00		\$3,467,219.00	
Contractor Name	PO Number	Original PO Amount	Invoice#	Invoice Amount	PO Balance
WK Dickson Design		\$ 234,150.00			\$234,150.00
			89296	\$ 4,683.00	\$229,467.00
			89600	\$ 2,341.50	\$227,125.50
			89918	\$ 16,390.50	\$210,735.00
			90055	\$ 3,512.25	\$207,222.75
			90663	\$ 1,170.75	\$206,052.00
			90917	\$ 4,683.00	\$201,369.00
Construction		\$ 3,265,850.00	1		
		\$ 2,500,000.00	2		
			3		
			4		
			5		
			6		
			7		
			8		
			9		
			10		
			11		
			12		
	Total	\$3,500,000.00		\$32,781.00	