



# GROUNDWATER REDUCTION PLAN PROGRAM

MONTHLY PROGRESS REPORT - SEPTEMBER 2013



## TABLE OF CONTENTS

<b>Table of Contents</b>	1	4.2 Financial Reports	12
<b>Acronyms and Definitions</b>	2	4.3 Invoices/Applications for Payment	12
<b>1.0 Planning</b>	3	4.4 Contract Amendments and Change Orders	12
1.1 Strategic	3	4.5 Claims	13
1.2 Engineering and Construction	3	4.6 CIP Cash Flow	13
1.3 Meetings	3	4.7 CIP Budget Estimates at Completion	13
<b>2.0 Schedule</b>	4	4.7.1 GRP Program	13
2.1 Engineering	4	4.7.2 GRP Projects	13
2.2 State Agency Coordination	5	4.8 Land Acquisition	13
2.3 Construction	6	<b>5.0 Quality Assurance</b>	14
<b>3.0 Procurement</b>	11	5.1 Final Design	14
3.1 Solicitations	11	5.2 Pre-Construction	14
3.2 Contract Awards	11	5.3 Construction	14
3.3 Process and Procedures	11	<b>6.0 Exhibits</b>	15
3.4 Look Ahead	11		
<b>4.0 Cost Report and Financial Considerations</b>	12		
4.1 GRP Program and GRP Project CIP Budget(s)	12		



# ACRONYMS AND DEFINITIONS

## ACRONYMS

<b>CA&amp;I</b>	Construction Administration and Inspection
<b>CCT</b>	Construction Communication Team
<b>CIP</b>	Capital Improvement Project
<b>CM&amp;I</b>	Construction Management and Inspection
<b>CMAR</b>	Construction Manager at Risk
<b>CMT</b>	Construction Material Testing
<b>CSB / P</b>	Competitive Sealed Bid / Proposal
<b>EA</b>	Environmental Assessment
<b>EAC</b>	Estimate At Completion
<b>GIS</b>	Geographic Information System
<b>GRP</b>	Groundwater Reduction Plan
<b>GST</b>	Ground Storage Tank
<b>HSPS</b>	High Service Pump Station
<b>LSGCD</b>	Lone Star Groundwater Conservation District
<b>LVGU</b>	Large Volume Groundwater User
<b>PER</b>	Preliminary Engineering Report
<b>PMP</b>	Program Management Plan
<b>PSA</b>	Professional Services Agreement
<b>QA</b>	Quality Assurance
<b>RFB / Q / P</b>	Request For Bids / Qualifications / Proposals
<b>RWI / RWPS</b>	Raw Water Intake / Raw Water Pump Station
<b>SJRA</b>	San Jacinto River Authority
<b>SOQ</b>	Statement Of Qualifications
<b>SWF</b>	Surface Water Facilities (SWTP, HSPS and RWI)
<b>SWRF</b>	Surface Water Receiving Facilities
<b>SWTP</b>	Surface Water Treatment Plant
<b>TBD</b>	To Be Determined
<b>TCEQ</b>	Texas Commission on Environmental Quality
<b>TWDB</b>	Texas Water Development Board
<b>TxDOT</b>	Texas Department Of Transportation
<b>WIF</b>	Water Infrastructure Fund

## DEFINITIONS

<b>GROUNDWATER REDUCTION PLAN (GRP)</b>	The document developed and filed with the LSGCD indicating SJRA's plan to reduce the permitted 2009 groundwater pumpage of its GRP Participants by 30%. The GRP is administered by the SJRA, including any supplements, revisions, or amendments.
<b>GRP PROGRAM TEAM</b>	SJRA staff, Program Management Consultant (Brown & Gay Engineers, Inc.) staff, and technical consultants working interdependently toward meeting the goals of the Groundwater Reduction Plan.
<b>GRP ADMINISTRATOR</b>	The SJRA General Manager's designee who administers the SJRA Groundwater Reduction Plan and GRP Contract with GRP Participants.
<b>GRP CONTRACT</b>	Contract between the SJRA and a Participant to be included in the SJRA's efforts to meet the surface water conversion requirements mandated by the LSGCD.
<b>JOINT GRP</b>	GRP which is prepared to include (takes into account) LVGUs who have executed a GRP Contract with the SJRA to join the SJRA's GRP. Contracted LVGUs obtain LSGCD groundwater reduction regulation compliance through the SJRA's Joint GRP without preparing and submitting a GRP.
<b>LARGE VOLUME GROUNDWATER USER(S) (LVGU)</b>	Any person or entity that, through a single well or a combination of wells, actually produces or is authorized by permit(s) issued by the LSGCD to produce 10 million gallons or more of groundwater annually on or after January 1, 2008.
<b>PARTICIPANT(S)</b>	Regulated User(s) that enters into and remains subject to a written agreement with the SJRA to be included in the SJRA's GRP and includes the legal successors or assigns of Participant(s).
<b>REGULATED USER(S)</b>	Any public or private entity or person that is or becomes subject to the District Regulatory Plan established by the LSGCD and includes any amendments, revisions or supplements thereto as may be adopted by the LSGCD.
<b>SJRA GRP DIVISION</b>	Division of the SJRA responsible for GRP compliance, and the management, administration, operation and maintenance of the surface water facilities and surface water transmission system.



## 1.0 PLANNING

The GRP Program Team meets regularly for the purposes of setting performance expectations and goals of the GRP Program, identifying the efforts required to achieve these objectives, evaluating the effectiveness of such efforts, and modifying those efforts based upon both internal and external performance evaluations.

### 1.1 STRATEGIC

This month, the San Jacinto River Authority made every effort to keep the public informed of construction in areas that will potentially be effected by traffic congestion and delays in the upcoming months. SJRA staff met face-to-face with several merchants in and around the areas, to provide them with information and answer questions related to the project. Articles relative to the construction, traffic alerts, and alternate routes were just a few items that were publicized in various forms in the media to capture the attention of motorists traveling through the construction areas. The GRP call center, set up to address the public's comments and concerns, has been in operation throughout the course of the transmission line construction project and has been utilized by citizens to voice their opinions and concerns, ask questions, gain general information, and receive a personal tailored response. Operational twenty-four hours a day, seven days a week, the GRP call center and [www.sjra.net](http://www.sjra.net) are the best ways to access up-to-date information to ensure motorists the most convenient and efficient commute possible.

### 1.2 ENGINEERING AND CONSTRUCTION

Our engineering consultants continue to provide procurement services by preparing proposal packages and assisting in the evaluation of construction proposals. As construction contracts are awarded on the remaining transmission line segments, the engineering consultants will provide construction phase services by reviewing submittals and pay applications as work proceeds.

### 1.3 MEETINGS

The GRP Program Team continued meeting with GRP Program stakeholders this month. A listing of these meetings is attached as [Exhibit 9](#).



*Segment W2A—Removal of Concrete Paving at Research Forest Drive Near Forest Crossing Drive*

## 2.0 SCHEDULE

Currently, the GRP Program remains on schedule for the delivery of treated surface water to select Joint GRP Participants on or before January 1, 2016. A simplified GRP Program schedule can be found in attached **Exhibit 1**.

### 2.1 ENGINEERING

#### SURFACE WATER TRANSMISSION SYSTEM

**Segment T1** – Design is complete with construction underway. Engineering consultant is providing construction phase services.

**Segment T2** – Design is complete with construction underway. Engineering consultant is providing construction phase services.

**Segment T3** – Design is complete with construction underway. Engineering consultant is providing construction phase services.

**Segment W1** – Design is complete with construction underway for Segments W1A and W1B. Engineering consultant is providing construction phase services for both segments.

**Segment W2** – Design is complete with construction underway for Segments W2A and W2B. Engineering consultant is providing construction phase services for both segments.

**Segment W3** – Design submittal for Segments W3A and W3B is 100% complete. Engineering consultant is providing procurement support services for Segment W3A and will provide for W3B in the future.

**Segment W4** – Design is complete. Engineering consultant is providing procurement support services.

**Segment C1** – Design is complete for Segments C1A and C1B. Engineering consultant is providing procurement support services.

**Segment C2** – Design is complete. Engineering consultant is providing procurement support services.

**Segment C3** – Design is complete. Engineering consultant is providing procurement support services.

**Segment C4** – Design is complete. Engineering consultant is providing procurement support services.

**Surface Water Receiving Facilities-South** – Design is complete and construction is underway.

**Surface Water Receiving Facilities-North** - Engineering consultant is providing procurement support services.

**Standpipe** - 90% plans submitted in September as anticipated. Project scheduled to go out for bid in early October.

#### SURFACE WATER FACILITIES

**Raw Water Intake Pump Station** – Design is complete and construction continues.

**Surface Water Treatment Plant** – Design is complete and construction continues.

**High Service Pump Station and Ground Storage Tanks** – Design is complete and construction continues.

**Fiber Optic Communications System** – Consultant is working on 100% design submittal.

**Construction Management and Inspection (CM&I)** – The CM&I team is providing management and inspection for Transmission Segments T1, T2, T3, W1A, W1B, W2A and W2B.

**Construction Administration and Inspection (CA&I)** – The CA&I staff for the SWF is currently working with the CMAR and SJRA staff to review submittals and RFI's, and provide constant field monitoring and inspection of the systems being installed.

**Construction Materials Testing Consultant (CMT)** - The CMT staff for the SWF is currently working with the CMAR and CA&I staff to perform industry standard construction materials testing. Testing includes soil densities, compressive strength/properties of concrete placed, welding, coatings and masonry testing.

**Cathodic Protection** – The cathodic protection consultant has completed their design effort for both the transmission line segments and the Surface Water Facilities.

## 2.0 SCHEDULE

### 2.2 STATE AGENCY COORDINATION

**Segment C2** - TWDB reviewed final submitted documents and issued Notice to Proceed.

**Segment C3** - TWDB reviewed final submitted documents and issued Notice to Proceed.

**Segment C4** - TWDB reviewed final submitted documents and issued Notice to Proceed.

**Segment W4** - TWDB reviewed final submitted documents and issued Notice to Proceed.

**North Surface Water Receiving Facilities** - TWDB reviewed final submitted documents and issued Notice to Proceed.

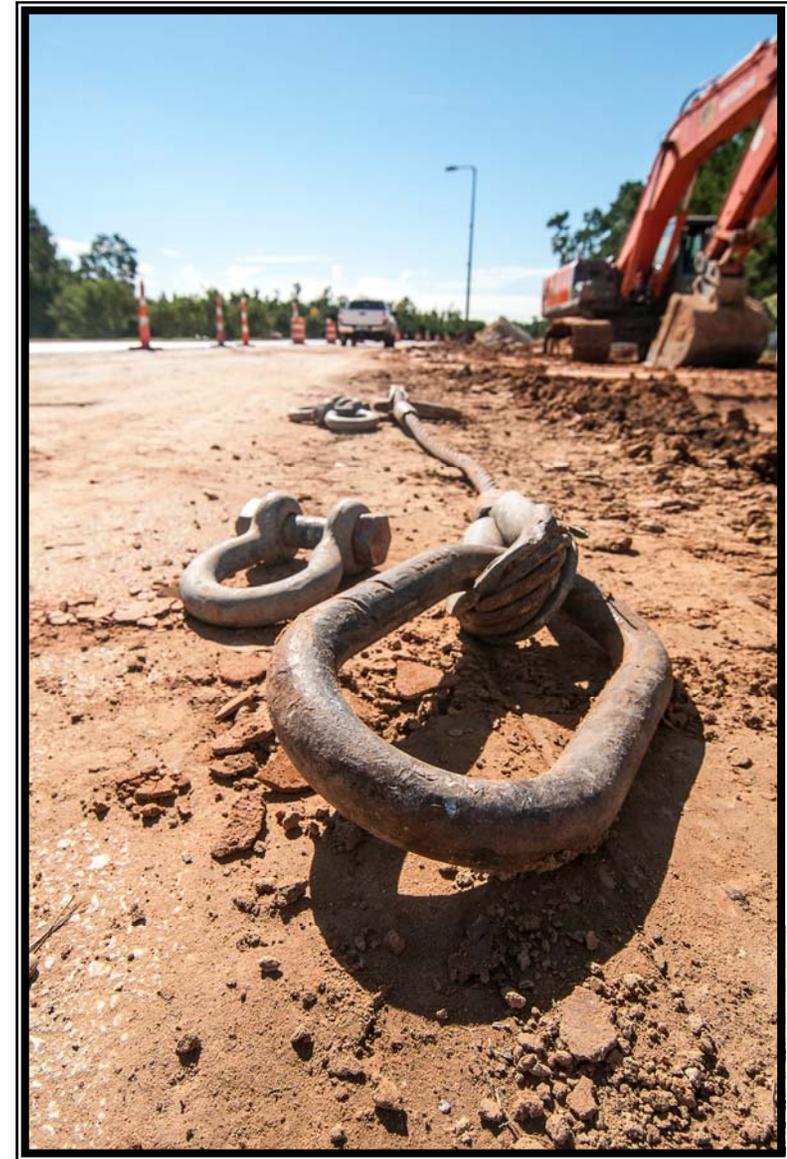
**Request For Release of Funds From Escrow** - TWDB approved the ninth request for release of escrowed funds. The released funds will cover construction of Transmission Line Segments C2, C3, C4, W4, Surface Water Receiving Facilities-North and Surface Water Receiving Facilities-South, as well as additional engineering services.

**Standpipe Plans and Specifications** - Plans and specifications submitted to TWDB for review and approval.

**Fiber Optic System** - Plans and specifications submitted to TWDB for review and approval.



*Segment W1A—Construction Signage Along FM 2978*



*Segment T2—Construction Materials at Fish Creek Near Woodforest Parkway*

## 2.0 SCHEDULE (CONTINUED)

### 2.3 CONSTRUCTION

#### SURFACE WATER TRANSMISSION SYSTEM

To date, thirteen of eighteen construction contracts have been awarded and a total of 33,482 linear feet of pipe has been installed. Construction contracts for the remaining waterline segments will continue to be awarded over the next few months and construction is scheduled to begin during the remainder of 2013. The graphs and charts below and on the following pages show the progress of Transmission Line Segments T1, T2, T3, W1A, W1B, W2A, W2B, W4, C2, C3, C4, Surface Water Receiving Facilities - North and Surface Water Receiving Facilities - South thus far.



Segment	T1	T2	T3
Contracted Amount	\$14,521,937.14	\$13,383,928.25	\$10,287,576.00
Invoiced To Date	\$6,673,228.50	\$3,691,337.33	\$265,666.00
% Construction Complete	46%	28%	3%



## 2.0 SCHEDULE (CONTINUED)



Segment	W1A	W1B	W2A	W2B	W4
Contracted Amount	\$8,222,000.50	\$7,213,544.50	\$15,288,526.00	\$16,161,600.00	\$3,656,604.23
Invoiced To Date	\$2,125,767.35	\$1,838,309.45	\$0.00	\$0.00	\$0.00
% Construction Complete	26%	25%	0%	0%	0%

## 2.0 SCHEDULE (CONTINUED)



Segment	C2	C3	C4	SWRF-N	SWRF-S
Contracted Amount	\$9,014,837.00	\$4,972,314.80	\$5,115,396.90	\$6,054,860.00	\$6,952,400.00
Invoiced To Date	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% Construction Complete	0%	0%	0%	0%	0%

## **2.0 SCHEDULE (CONTINUED)**

**Segment T1** - Installation of 60-inch pipe by open cut operations completed along toe of dam including concrete encased section (manholes and testing not completed). A total of 8,330 linear feet of pipe (41% of total project length) installed through the month of September. Clearing has begun along McCaleb Road south of State Highway 105.

**Segment T2** - Installation of steel casings by trenchless and open cut construction methods continued in September. A total of 6,620 linear feet of pipe (28% of total project length) installed through the month of September.

**Segment T3** - Contractor began site clearing for pipeline installation in September. Pipe delivery and beginning of installation scheduled for October. No pipeline was installed in September.

**Segment W1A** - Contractor continued installation of 16-inch fusible PVC pipe from Water Plant No. 4 along FM 2978. A total of 11,266 linear feet of pipe (49% of total project length) installed through the month of September. Contractor began removal of concrete paving and installation of traffic control along Research Forest Drive.

**Segment W1B** - Contractor completed open cut installation of 20-inch pipe from casing under Alden Bridge to Water Plant No. 3. Contractor began installation of 42-inch pipe along Research Forest Drive. A total of 7,266 linear feet of pipe (42% of total project length) installed through the month of September.

**Segment W2A** - Contractor continued critical utility locates and construction surveying. The contractor also installed traffic control signs, signals, and future construction warning signs. No pipe was installed in September. The contractor submitted two proposals for methods to accelerate construction on the portion of the project located along Research Forest Drive between Shadow Bend and Grogans Mill.

**Segment W2B** - Contractor began critical utility location, construction surveying and site clearing in the project area south of Woodlands Parkway.

The contractor utilized temporary detours and traffic diversions to perform the work. The contractor also installed foundations for the aerial pipeline crossing. No pipe was installed in September.

**Segment C2** - Garney Companies, Inc., was awarded construction contract this month.

**Segment C3** - E.P. Brady, Ltd., was awarded construction contract this month.

**Segment C4** - BRH Garver Construction, L.P., was awarded construction contract this month.

**Segment W4** - Huff and Mitchell, Inc., was awarded construction contract this month.

### **SURFACE WATER RECEIVING FACILITIES**

**City of Oak Ridge North** - Construction for water plant modifications and surface water receiving facilities continued this month for the City of Oak Ridge North.

**Surface Water Receiving Facilities—South** - The construction contract for the Surface Water Receiving Facilities-South was approved by the SJRA Board on August 22, 2013. A Notice to Proceed and Pre-construction conference took place. Contractor prepared for site clearing operations.

**Surface Water Receiving Facilities—North** - Archer Western Construction, L.L.C., was awarded this construction contract this month.



## 2.0 SCHEDULE (CONTINUED)

### SURFACE WATER FACILITIES

**Raw Water Intake** - Structural steel building frame is currently in progress with the masons mobilizing the first part of October.

**Surface Water Treatment Plant** - Progress continues at the Operations, Warehouse, Chemical, Electrical, Generator, Pretreatment, Membrane, Backwash Equalization, Process Water Recovery Basins, Belt Filter Press Building and GAC Buildings. Structural earthwork and concrete placement are the main trades working on the site. The site electrical and process piping installation is currently underway as well.

**High Service Pump Station** - Progress continues with the installation of the exterior masonry structural system. Structural steel for the roof frame and overhead crane have been delivered.

**Ground Storage Tanks** - Ground Storage Tank Nos. 1 and 2 are both in their finishing stages. Leak testing of Ground Storage Tank No. 2 will begin in early October, with Ground Storage Tank No. 1 following.

The chart below represents the progress of the Surface Water Facilities through the month of September.

Name of Project	Contracted Amount	Invoiced To Date	% Construction Complete
Surface Water Facilities	\$190,704,740	\$53,792,302.00	28%



*Segment W2B— Removal of Concrete Paving at Grogans Mill Between North Millbend and South Millbend*

## **3.0 PROCUREMENT**

### **3.1 SOLICITATIONS**

This month, no solicitations for proposals for construction were advertised.

### **3.2 CONTRACT AWARDS**

The following contracts were awarded for construction this month:

- Work Order No. 9 for Preliminary and Final Design, Procurement, Topographic Survey, Metes and Bounds, and Geotechnical Investigation of Communication Conduit and Ground Boxes
- Construction Contract for Surface Water Transmission Line Segment C2
- Work Order No. 7 for Construction Phase Services during the Construction of Surface Water Transmission Line Segment C2
- Construction Contract for Surface Water Transmission Line Segment C3
- Work Order No. 6 for construction Phase Services during the Construction of Surface Water Transmission Line Segment C3
- Construction Contract for Surface Water Transmission Line Segment C4
- Work Order No. 6 for Construction Phase Services during the Construction of Surface Water Transmission Line Segment C4
- Construction Contract for Surface Water Transmission Line Segment W4
- Work Order No. 6 for Construction Phase Services during the Construction of Surface Water Transmission Line Segment W4
- Construction Contract for Surface Water Transmission North Water Receiving Facilities
- Work Order No. 6 for Construction Phase Services during the Construction of Surface Water Transmission North Water Receiving Facilities

### **3.3 PROCESS AND PROCEDURES**

The GRP Program continues to utilize traditional procurement methods for consultant services and alternative project delivery methods in the procurement of contractor services.

### **3.4 LOOK AHEAD**

The following list provides a very general look ahead at known and anticipated GRP Program professional services and construction contractor solicitations, contract awards, contract/work order amendments, and assorted agreements such as utility relocations and easement encroachments. Solicitations may be combined, modified, or canceled, or time frames may be modified as deemed necessary.

- Work Order No. 10 for Supplemental Field Investigations for Surface Water Transmission Line Segment W2
- Construction Contract for Surface Water Transmission Line Segment C1A
- Work Order No. 6 for Construction Phase Services by Design Consultant during construction of Surface Water Transmission Line Segment C1A
- Construction Contract for Surface Water Transmission Line Segment C1B
- Work Order No. 7 for Construction Phase Services by Design Consultant during construction of Surface Water Transmission Line Segment C1B
- Change Order No. 1 for Surface Water Transmission Line Segment W2A
- Amendment No. 1 to Work Order No. 2, Construction Management and Inspection Services for Accelerated Construction of Surface Water Transmission System, Segment W2A
- Amendment No. 1 to Work Order No. 2 for Additional Inspection Services for Segment W2A
- Work Order No. 3 for Additional Services during Construction
- Construction contract for Surface Water Transmission System Standpipe
- Work Order No. 14 for Construction Phase Services by Design Consultant during construction of Surface Water Transmission System Standpipe



## 4.0 COST REPORT AND FINANCIAL CONSIDERATIONS

### 4.1 GRP PROGRAM AND GRP PROJECT CIP BUDGET(S)

Through this month, the GRP Program remains under its construction cost estimate of \$500,000,000, and forecasts continue to indicate it will be completed under budget (see also subsection 4.6 and *Exhibit 2*). A summary of the GRP Program’s CIP budget and cost considerations as reported to the GRP Review Committee and the SJRA Board of Directors is provided as attached *Exhibit 2*.

Due to last month’s year-end processes, Exhibit 8 for the month of August was not included, however *Exhibit 8-1* now reflects August’s summary of the SJRA GRP Division’s Fiscal Year 2013 unaudited operating budget (revenue and expenditures). Also included in the exhibit is a summary of the SJRA GRP Division’s Fiscal Year 2014 operating budget marked as *Exhibit 8-2*. The budget includes all normal and customary expenses for operating a utility-based, non-profit business, including debt service, and is developed annually for approval by the SJRA Board of Directors.

The SJRA Board of Directors has authorized bond funding for the GRP Program in the amount of \$552,250,358.49 (Net \$479,746,021.87); see also *Exhibit 4*). This funding allows the SJRA to secure all of the resources required to perform professional services, construction services, and procure long lead time equipment during the design phase of the GRP Program.

### 4.2 FINANCIAL REPORTS

*Exhibit 5* illustrates the funding sources presently applied towards the GRP Program CIP budget which include the following:

- 1.) Texas Water Development Board’s (TWDB) Water Infrastructure Fund (WIF);
- 2.) The sale of open market Special Project Revenue Bonds, Series 2011;
- 3.) TWDB Dfund, Series 2011A;
- 4.) TWDB Dfund, Series 2012; and
- 5.) TWDB Dfund, Series 2012A
- 6.) TWDB Dfund, Series 2013

Available funding after costs represents approximately 95.9% of the planned Program budget. Contracted commitments are summarized in Table 4.1. The GRP Program’s funding and forecasted expenditures are further detailed in attached *Exhibits 2, 3 and 4*.

Please note that financial reports do not include investment income.

### 4.3 INVOICES/APPLICATIONS FOR PAYMENT

GRP Program Consultant Invoices and/or Construction Contractor Applications for Payment paid through the end of the report month are represented in Table 4.1 (Item F).

	Previous 8/31/2013	September 2013 Activity	Year to Date (Thru 9/30/13)
A. Approved Funding	512,400,358.49	39,850,000.00	552,250,358.49
B. Available Funding After Costs	446,812,553.05	32,933,468.82	479,746,021.87
C. Approved Contracts	387,634,347.06	30,437,356.88	418,071,703.94
D. Project Close Out	(801,638.57)	\$0.00	(801,638.57)
E. Uncontracted Funding	59,979,844.56	2,496,111.94	62,475,956.50
F. Invoices Paid	114,259,035.94	13,905,716.29	128,164,752.23
G. Remaining Funds	332,553,517.11	19,027,752.53	351,581,269.64

### 4.4 CONTRACT AMENDMENTS AND CHANGE ORDERS

Each of the GRP Program agreements, work orders, and amendments listed in Section 3.2 were presented at the GRP Review Committee and the SJRA Board of Directors meeting this month. Each item was authorized by the



## 4.0 COST REPORT AND FINANCIAL CONSIDERATIONS

SJRA Board of Directors for execution by the SJRA General Manager.

### 4.5 CLAIMS

No claims were identified this month.

### 4.6 CIP CASH FLOW

The GRP Program CIP cash flow through calendar year 2015 reflects known expenditures through this month as seen in Table 4.1. Estimates for future expenditures are included in [Exhibit 2](#). All active and currently identified future GRP Program projects and initiatives are included in the cash flow. A graph of forecasted monthly expenditures from the referenced cash flow is attached as [Exhibit 3](#).

### 4.7 CIP BUDGET ESTIMATES AT COMPLETION

#### 4.7.1 GRP Program

The **total gross funds** (including capitalized interest) required to execute Phase I of the GRP Program are currently estimated at \$564,335,358.49. Additionally, all current GRP Program contracts, including their respective SJRA Board of Director's approved budgeted amounts are listed in [Exhibit 6](#).

#### 4.7.2 GRP Projects

The GRP Program projects remained within their approved contract budgets this month. [Exhibit 6](#) indicates each active GRP Program project and GRP Program contract.

### 4.8 LAND ACQUISITION

The GRP Program Team, with the support of its assorted land acquisition consultants, continued to make progress in acquiring the land and easements necessary for the surface water transmission system. The preparation of metes & bounds descriptions for easements along the transmission line routes continued and are nearing completion. Six (6) easements were acquired in the month of September; four related to Segment C1, and two related to Segment C2. Negotiations to acquire other easements throughout the system are at varying stages of completion. A cumulative summary of easement acquisition activity is provided in [Exhibit 7](#).



Segment T2— Pipe Along Fish Creek Near Leah Drive

## **5.0 QUALITY ASSURANCE**

### **5.1 FINAL DESIGN**

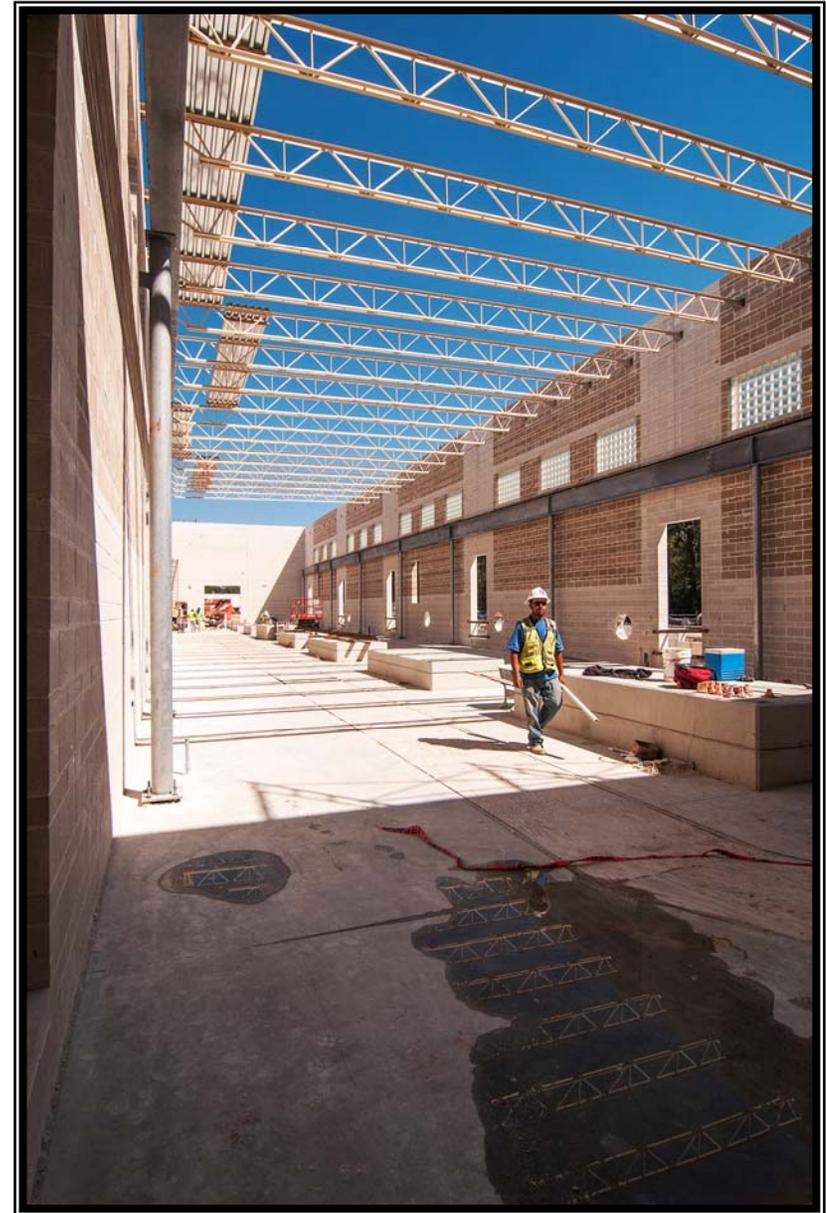
As final design nears completion and milestone submittals are received, the GRP Program Team will review and provide comments as applicable to each submittal. The review will be based on submittal compliance with the GRP Program’s Design Standards and Criteria Manual, completeness per Program Management Plan (PMP) Section 14.0 – Quality Management and Section 21.0 – Design Management, and general project understanding.

### **5.2 PRE-CONSTRUCTION**

The CM&I Team conducted pre-proposal conferences for Transmission Line Segments C1A and W3. They assisted in the development of addenda, answered questions and participated in negotiations with the contractors. The CM&I Team also conducted a pre-construction conference for the North Water Receiving Facilities project.

### **5.3 CONSTRUCTION**

Quality assurance efforts by the SJRA Construction Inspectors as well as the SWF CA&I consultants continued this month with the continuation of SWF construction. Virtually every building on the Surface Water Facilities project site is making progress towards the substantial completion date. Quality Administration Efforts include regular visits to the project to monitor and document observed progress and confirmation of compliance with the construction contract. Similar quality assurance efforts by the SJRA Construction Inspectors and CM&I consultants continued this month on the transmission lines.



*Surface Water Facilities—Construction at High Service Pump Station*

## **6.0 EXHIBITS**

**Exhibit 1** - GRP Program Schedule

**Exhibit 2** - GRP Program Estimate-At-Completion

**Exhibit 3** - GRP Program Monthly Forecasted Expenditures

**Exhibit 4** - GRP Program Fund Data

**Exhibit 5** - Monthly GRP Program Financing Report

**Exhibit 6** - GRP Program Current Authorizations

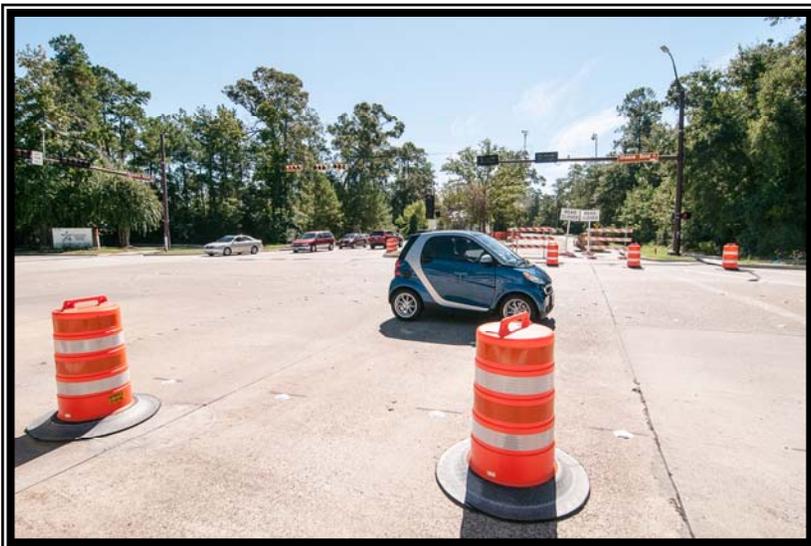
**Exhibit 7** - Land Acquisition Summary

**Exhibit 8** -GRP Schedule of Revenues & Expenses—Actual & Budget

**Exhibit 9** - GRP Program Monthly Meeting Log

**Exhibit 10** - Surface Water Facilities (SWF) Construction Photos

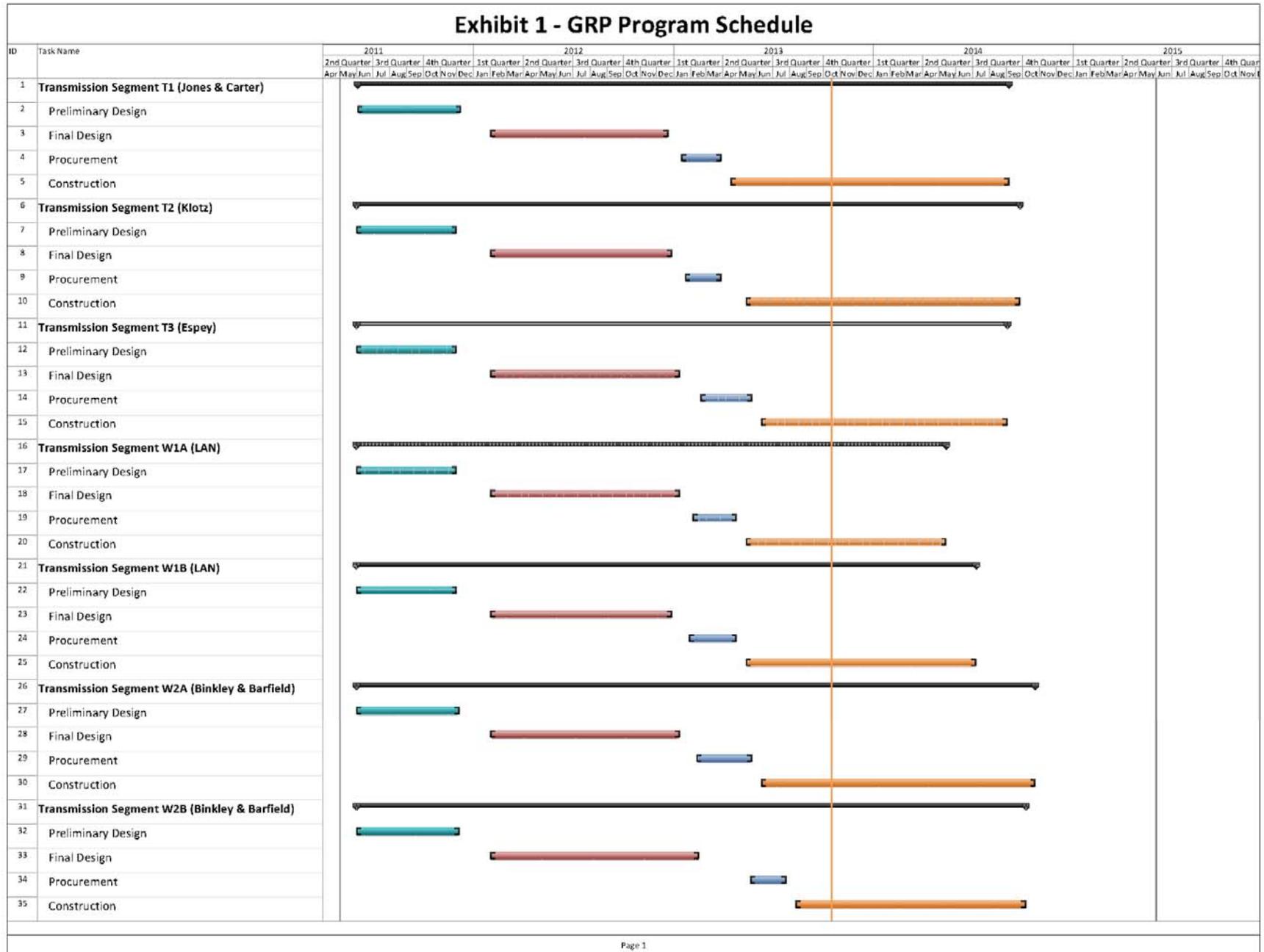
**Exhibit 11** - Transmission Line Construction Photos



*Above: Segment W1A—Construction Along FM 2978*

*Left: Segment W2B—View at Research Forest Drive at Shadowbend Drive*

### Exhibit 1 - GRP Program Schedule

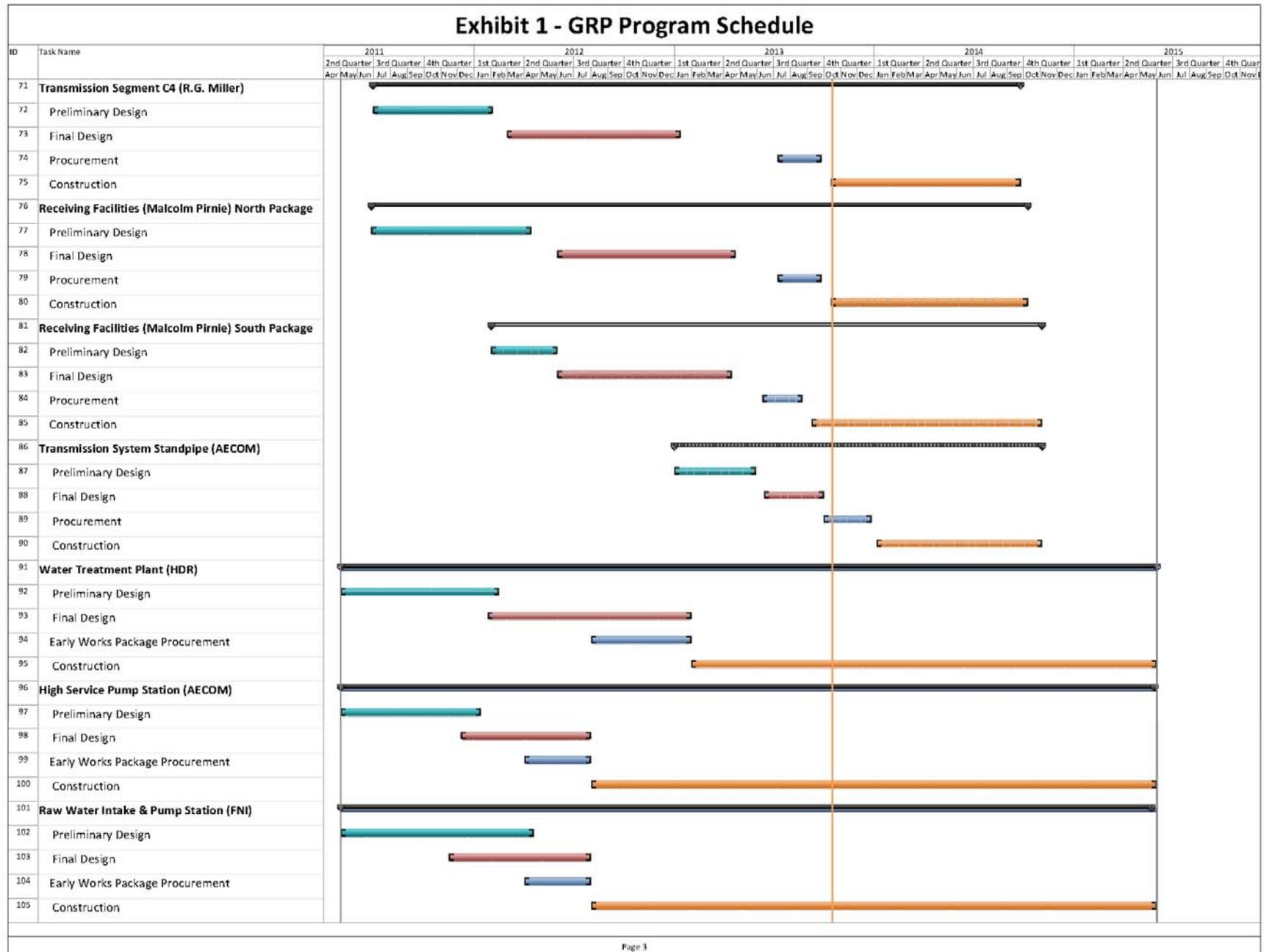


### Exhibit 1 - GRP Program Schedule

ID	Task Name	2011				2012				2013				2014				2015			
		2nd Quarter Apr	3rd Quarter May	4th Quarter Jun	1st Quarter Jul	2nd Quarter Aug	3rd Quarter Sep	4th Quarter Oct	1st Quarter Nov	2nd Quarter Dec	3rd Quarter Jan	4th Quarter Feb	1st Quarter Mar	2nd Quarter Apr	3rd Quarter May	4th Quarter Jun	1st Quarter Jul	2nd Quarter Aug	3rd Quarter Sep	4th Quarter Oct	
36	<b>Transmission Segment W3A (Cobb Fendley)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
37	Preliminary Design	[Bar: 2011 Q2-Q3]																			
38	Final Design					[Bar: 2012 Q1-Q2]															
39	Procurement									[Bar: 2013 Q3]											
40	Construction													[Bar: 2014 Q1-Q2]							
41	<b>Transmission Segment W3B (Cobb Fendley)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
42	Preliminary Design	[Bar: 2011 Q2-Q3]																			
43	Final Design					[Bar: 2012 Q1-Q2]															
44	Procurement									[Bar: 2013 Q3]											
45	Construction													[Bar: 2014 Q1-Q2]							
46	<b>Transmission Segment W4 (LJA)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
47	Preliminary Design	[Bar: 2011 Q2-Q3]																			
48	Final Design					[Bar: 2012 Q1-Q2]															
49	Procurement									[Bar: 2013 Q3]											
50	Construction													[Bar: 2014 Q1-Q2]							
51	<b>Transmission Segment C1-A (Dannenbaum)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
52	Preliminary Design	[Bar: 2011 Q2-Q3]																			
53	Final Design					[Bar: 2012 Q1-Q2]															
54	Procurement									[Bar: 2013 Q3]											
55	Construction													[Bar: 2014 Q1-Q2]							
56	<b>Transmission Segment C1-B (Dannenbaum)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
57	Preliminary Design	[Bar: 2011 Q2-Q3]																			
58	Final Design					[Bar: 2012 Q1-Q2]															
59	Procurement									[Bar: 2013 Q3]											
60	Construction													[Bar: 2014 Q1-Q2]							
61	<b>Transmission Segment C2 (Schaumburg &amp; Polk)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
62	Preliminary Design	[Bar: 2011 Q2-Q3]																			
63	Final Design					[Bar: 2012 Q1-Q2]															
64	Procurement									[Bar: 2013 Q3]											
65	Construction													[Bar: 2014 Q1-Q2]							
66	<b>Transmission Segment C3 (Kimley-Horn)</b>	[Timeline bar spanning from 2011 Q2 to 2014 Q4]																			
67	Preliminary Design	[Bar: 2011 Q2-Q3]																			
68	Final Design					[Bar: 2012 Q1-Q2]															
69	Procurement									[Bar: 2013 Q3]											
70	Construction													[Bar: 2014 Q1-Q2]							



### Exhibit 1 - GRP Program Schedule



## Exhibit 2

### GRP Program Estimate-At-Completion As of September 30, 2013

SERVICES	ESTIMATE-AT-COMPLETION
<b>Pre-Engineering Phase Services</b>	<b>\$ 4,692,437</b>
(GRP Development, Environmental Studies, Pilot Plant, Surface Water Treatment Plant Site Survey)	
<b>Engineering Phase Services</b>	<b>\$ 45,743,158</b>
(Planning, Preliminary Engineering, Final Engineering, Geotechnical, Survey, Metes & Bounds, Subsurface Utility Investigation, Environmental)	
<b>Construction Phase Services</b>	<b>\$ 28,107,208</b>
(Engineering Services During Construction, Construction Management & Inspection [Transmission System], Construction Administration & Inspection [SWF], Material Testing)	
<b>Construction</b>	<b>\$ 388,291,262</b>
(Surface Water Transmission System, Raw Water Intake and Pump Station, Surface Water Treatment Plant, High Service Pump Station and Ground Storage Tanks, Surface Water Receiving Facilities, Infrastructure, Buildings, Roadways, Site Security, Access Roadways)	
Transmission Segment C1 - Construction	\$ 4,747,234
Transmission Segment C2 - Construction	\$ 9,465,579
Transmission Segment C3 - Construction	\$ 5,220,931
Transmission Segment C4 - Construction	\$ 5,371,167
Transmission Segment T1 - Construction	\$ 15,248,034
Transmission Segment T2 - Construction	\$ 14,053,125
Transmission Segment T3 - Construction	\$ 10,801,955
Transmission Segment W1 - Construction	\$ 16,207,322
Transmission Segment W2 - Construction	\$ 34,074,364
Transmission Segment W3 - Construction	\$ 20,495,064
Transmission Segment W4 - Construction	\$ 3,839,434
Transmission System Standpipe	\$ 2,058,234
Receiving Facilities - Construction	\$ 16,558,667
Surface Water Facilities CMAR (GMP)	\$ 190,704,740
Transmission System Fiber Optic - Construction	\$ 4,483,728
Permanent Access Roadway Construction	\$ 7,705,000
Building No. 1; Access Road; Vegetative Buffer; Construction Materials Testing; SWF Site Vegetation Management; Sanitary Sewer/Access Rd. Relocation	\$ 4,399,773
Other Offsite Construction (Transmission Line Utility Relocations, Receiving Facility Improvements)	\$ 16,787,355
Non-Project Specific Contingency	\$ 6,069,556
<b>Program Management</b>	<b>\$ 10,722,757</b>
(GRP Program Management, Survey, Geotechnical, Transient, Corrosion, Legal Consultants)	
<b>Land Acquisition</b>	<b>\$ 12,948,302</b>
(Legal, Appraisal, Title Research, Land Acquisition Consultants) <sup>(1)</sup>	
<b>Total<sup>(2)</sup>:</b>	<b>\$ 490,505,124</b>

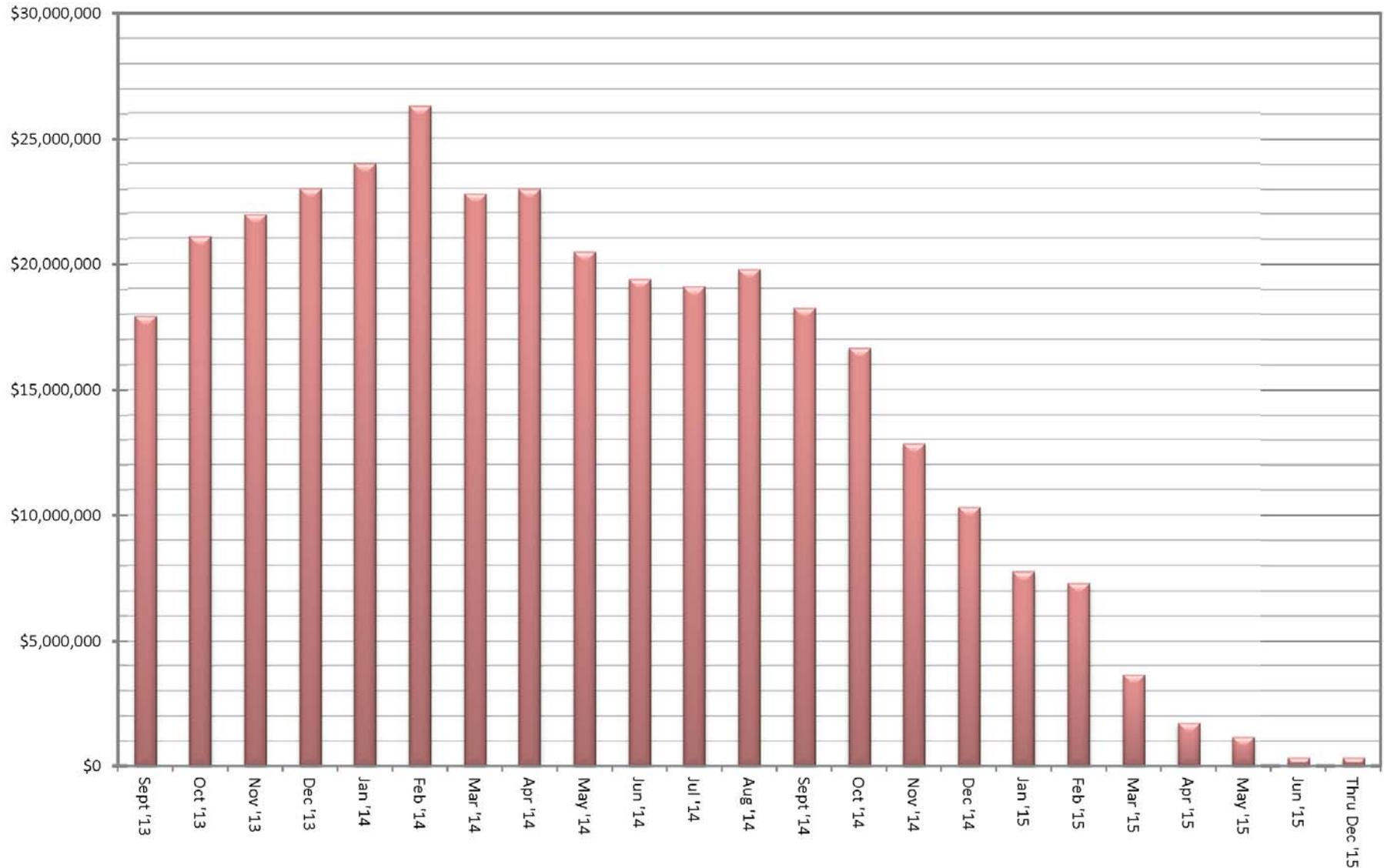
<sup>(1)</sup> Includes revisions to land acquisition cost estimates and recategorizing of contingency.

<sup>(2)</sup> Bond issuance costs are not included.



### Exhibit 3

## GRP Program Monthly Forecasted Expenditures As of September 30, 2013



## Exhibit 4

### GRP Program Fund Data As of September 30, 2013

Funding Source	Amount Authorized by Board To-Date	Interest Rate	Bond Costs	Capitalized Interest	Debt Service Reserve Fund	Net Amount Currently Available	Pending Funding Source
TWDB WIF Bond Issue	\$ 21,500,000.00	.854% - 2.706%	\$ 470,337.08	\$ -	\$ -	\$ 21,029,662.92	
Open Market Bond Issue (Series 2011)	\$ 83,430,358.49	3% - 5.25%	\$ 2,049,764.39	\$ 7,858,241.52	\$ -	\$ 73,522,352.58	
TWDB DFund Series 2011A	\$ 67,470,000.00	1.22% - 4.97%	\$ 751,195.33	\$ 5,166,233.00	\$ 3,859,151.00	\$ 57,693,420.67	
TWDB DFund Series 2012	\$ 175,000,000.00	1.17% - 4.62%	\$ 971,769.13	\$ 12,869,175.00	\$ -	\$ 161,159,055.87	
TWDB DFund Series 2012A	\$ 165,000,000.00	1.26% - 4.62%	\$ 952,269.99	\$ 14,139,669.00	\$ 16,500,000.00	\$ 133,408,061.01	
TWDB Dfund Series 2013	\$ 39,850,000.00	4.50%	\$ 628,750.00	\$ 3,214,292.00	\$ 3,073,489.18	\$ 32,933,468.82	
<b>Subtotal Approved Amounts</b>	<b>\$ 552,250,358.49</b>		<b>\$ 5,824,085.92</b>	<b>\$ 43,247,610.52</b>	<b>\$ 23,432,640.18</b>	<b>\$ 479,746,021.87</b>	
Future Series 2014 (Est.)	\$ 12,085,000.00	4.54%	\$ 321,200.00	\$ 1,004,698.00	\$ -	\$ -	\$ 10,759,102.00
<b>Subtotal Future Amounts</b>	<b>\$ 12,085,000.00</b>		<b>\$ 321,200.00</b>	<b>\$ 1,004,698.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,759,102.00</b>
<b>Totals</b>	<b>\$ 564,335,358.49</b>		<b>\$ 6,145,285.92</b>	<b>\$ 44,252,308.52</b>	<b>\$ 23,432,640.18</b>	<b>\$ 479,746,021.87</b>	<b>\$ 10,759,102.00</b>

Notes:

1. These values do not include investment income.
2. Green items are estimates only.
3. Series 2011 bond costs include \$681,132.45 for bond insurance and \$459,709.50 for underwriter's discount.



# Exhibit 5

## Monthly GRP Program Financing Report

### Fiscal Year 2013

### Through September 30, 2013

	TWDB WIF Bond Issue	Open Market Bond Issue (Series 2011)	TWDB Dfund (Series 2011A)	TWDB Dfund (Series 2012)	TWDB Dfund (Series 2012A)	TWDB Dfund (Series 2013)	Totals
<b>A. Program Budget</b>							
Bond Issue Amount	\$ 21,500,000.00	\$ 83,430,358.49	\$ 67,470,000.00	\$ 175,000,000.00	\$ 165,000,000.00	\$ 39,850,000.00	\$ 552,250,358.49
<b>Total Investment</b>	<b>\$ 21,500,000.00</b>	<b>\$ 83,430,358.49</b>	<b>\$ 67,470,000.00</b>	<b>\$ 175,000,000.00</b>	<b>\$ 165,000,000.00</b>	<b>\$ 39,850,000.00</b>	<b>\$ 552,250,358.49</b>
<b>B. Contracted Costs</b>							
Contracts Completed	\$ 17,811,662.84	\$ 19,567,001.51	\$ 2,612,800.74	\$ -	\$ -	\$ -	\$ 39,991,465.09
Current Contract Values	\$ 3,199,479.00	\$ 32,471,512.24	\$ 46,906,293.81	\$ 161,159,055.87	\$ 122,624,979.29	\$ 8,772,001.13	\$ 375,133,321.34
Change Orders	\$ -	\$ 2,773,912.12	\$ 173,005.39	\$ -	\$ -	\$ -	\$ 2,946,917.51
Project Close Out	\$ (315,554.78)	\$ (486,083.79)	\$ -	\$ -	\$ -	\$ -	\$ (801,638.57)
<b>Total</b>	<b>\$ 20,695,587.06</b>	<b>\$ 54,326,342.08</b>	<b>\$ 49,692,099.94</b>	<b>\$ 161,159,055.87</b>	<b>\$ 122,624,979.29</b>	<b>\$ 8,772,001.13</b>	<b>\$ 417,270,065.37</b>
<b>C. Expenditures</b>							
Paid Previous Fiscal Years	\$ 20,445,604.55	\$ 41,810,521.31	\$ 13,516,375.89	\$ 35,745,194.60	\$ 2,741,339.59	\$ -	\$ 114,259,035.94
Paid Current Fiscal Year	\$ 31,919.59	\$ 631,084.65	\$ 908,318.18	\$ 5,938,609.25	\$ 6,395,784.62	\$ -	\$ 13,905,716.29
Issuance Costs	\$ 470,337.08	\$ 2,049,764.39	\$ 751,195.33	\$ 971,769.13	\$ 952,269.99	\$ 628,750.00	\$ 5,824,085.92
Debt Service Reserve Fund	\$ -	\$ -	\$ 3,859,151.00	\$ -	\$ 16,500,000.00	\$ 3,073,489.18	\$ 23,432,640.18
Capitalized Interest	\$ -	\$ 7,858,241.52	\$ 5,166,233.00	\$ 12,869,175.00	\$ 14,139,669.00	\$ 3,214,292.00	\$ 43,247,610.52
<b>Total</b>	<b>\$ 20,947,861.22</b>	<b>\$ 52,349,611.87</b>	<b>\$ 24,201,273.40</b>	<b>\$ 55,524,747.98</b>	<b>\$ 40,729,063.20</b>	<b>\$ 6,916,531.18</b>	<b>\$ 200,669,088.85</b>
<b>D. Remaining</b>							
Uncontracted Funds	\$ 334,075.86	\$ 19,196,010.50	\$ 8,001,320.73	\$ (0.00)	\$ 10,783,081.72	\$ 24,161,467.69	\$ 62,475,956.50
Fund Balance *	\$ 552,138.78	\$ 31,080,746.62	\$ 43,268,726.60	\$ 119,475,252.02	\$ 124,270,936.80	\$ 32,933,468.82	\$ 351,581,269.64

\*Excluding net investment income



## Exhibit 6

### GRP Program Current Authorizations As of September 30, 2013

#### Surface Water Transmission System - Consultant Services

Project	Firm	Amount Authorized by Board
T1	Jones & Carter	\$ 2,202,879.75
T2	Klotz Associates	\$ 1,878,727.49
T3	Espey	\$ 1,892,322.47
W1	LAN	\$ 2,729,523.15
W2	Binkley & Barfield	\$ 3,247,291.19
W3	Cobb Fendley	\$ 3,592,808.00
W4	LJA	\$ 1,325,401.17
C1	Dannenbaum	\$ 815,523.94
C2	Schaumburg & Polk	\$ 1,418,951.72
C3	Kimley Horn	\$ 897,638.60
C4	RG Miller	\$ 387,701.04
WRFs	Malcom Pirnie/Arcadis	\$ 2,680,366.57
CM&I	Kellog Brown & Root	\$ 8,124,254.62
<b>Subtotal - Surface Water Transmission System</b>		<b>\$ 31,193,389.71</b>

#### Surface Water Facilities - Consultant Services

Project	Firm	Amount Authorized by Board
WTP	HDR Engineering	\$ 18,583,396.92
HSPS	AECOM	\$ 4,799,416.39
StandPipe	AECOM	\$ 192,281.00
RWI&PS	Freese & Nichols	\$ 3,954,773.35
CA&I	CDMSmith	\$ 5,348,633.00
<b>Subtotal - Surface Water Facilities</b>		<b>\$ 32,878,500.66</b>

#### Program Consultant Services & Other Projects

Project	Firm	Amount Authorized by Board
Program Management	Brown & Gay	\$ 10,695,245.06
Program Survey	Landtech	\$ 514,524.00
Program Geotechnical	Raba Kistner	\$ 145,260.00
Prog Transient Analyses	AECOM	\$ 284,178.11
Access Rd/Misc Service	ACES	\$ 860,610.60
SWF Surveying	S&V Surveying	\$ 66,875.00
Land Acq	KDM	\$ 421,592.70
Land Acq	PAS	\$ 1,413,334.88
Program Environmental	Half Associates	\$ 1,063,698.87
Program Fiber Optics	EMA	\$ 736,357.00
Program Corrosion	V&A Consulting Engineers	\$ 866,676.00
Program Services & Projects	Multiple	\$ 5,673,735.44
<b>Subtotal - Program Consultant Services &amp; Other Projects</b>		<b>\$ 22,742,087.66</b>



## Exhibit 6 (con't)

### GRP Program Current Authorizations As of September 30, 2013

#### Active or Completed Construction Contracts

Project	Firm	Amount Authorized by Board
GRP Bldg No. 1	Brookstone	\$ 2,008,673.00
Bldg No. 1/Aqua Tx CMT	Aviles Engineering	\$ 64,343.15
Landscape Buffer	Key-Scape Landscape	\$ 53,090.00
Temp Access Road	Lindsey Construction	\$ 977,583.60
Access Road CMT	Terracon Consultants	\$ 10,359.70
Access Road Overlay and Detention	AAA Asphalt	\$ 412,284.59
Access Road Landscape	TreeScapes	\$ 34,165.00
Aqua Texas Sewer	Randy Roan Construction	\$ 535,181.17
Bldg No. 1 Fiber Line	Preferred Technologies	\$ 231,157.56
Surface Water Plant (CMAR)	McCarthy	\$ 190,704,740.00
SWF CMT	Geotest	\$ 1,976,659.00
Transmission Sytem Utility Relocations	Various	\$ 1,992,417.46
Transmission System CMT (T3, W1, W2, W3, W4)	Aviles	\$ 1,601,330.00
Transmission System CMT (T1, T2, C1, C2, C3, C4)	Terracon	\$ 1,006,711.25
Transmission Segment T1	S.J. Louis Construction of Texas Ltd	\$ 14,521,937.14
Transmission Segment T2	Texas Sterling Construction Company	\$ 13,383,928.25
Transmission Segment T3	S.J. Louis Construction of Texas Ltd	\$ 10,287,576.00
Transmission Segment C2	Garney Companies, Inc.	\$ 9,014,837.00
Transmission Segment C3	E.P. Brady, LTD.	\$ 4,972,314.80
Transmission Segment C4	BRH-Garver Construction, L.P.	\$ 5,115,396.90
Transmission Segment W1A	Huff & Mitchell, Inc.	\$ 8,222,000.50
Transmission Segment W1B	Texas Sterling Construction Company	\$ 7,213,544.50
Transmission Segment W2A	Texas Sterling Construction Company	\$ 15,288,526.00
Transmission Segment W2B	Texas Sterling Construction Company	\$ 16,161,600.00
Transmission Segment W4	Huff & Mitchell, Inc.	\$ 3,656,604.23
Receiving Facilities South	CSA	\$ 6,952,400.00
Receiving Facilities North	Archer Western	\$ 6,054,860.00
Miscellaneous	Other Construction Contracts, Permits, Fees, etc.	\$ 308,163.05
<b>Subtotal - Construction Contracts</b>		<b>\$ 322,762,383.85</b>

#### Totals

	Amount Authorized by Board
Surface Water Transmission System - Consultant Services	\$ 31,193,389.71
Surface Water Facilities - Consultant Services	\$ 32,878,500.66
Program Consultant Services & Other Projects	\$ 22,742,087.66
Active or Completed Construction Contracts	\$ 322,762,383.85
<b>Total</b>	<b>\$ 409,576,361.88</b>



## Exhibit 7

### GRP Program Land Acquisition Summary As of September 30, 2013

Project	Anticipated Number of Easements to Acquire	Easements Acquired This Month	Total Easements Acquired and Filed
Transmission System Segment T1	62	0	61
Transmission System Segment T2	0	0	0
Transmission System Segment T3	22	1	9
Transmission System Segment C1	16	4	14
Transmission System Segment C2	77	2	30
Transmission System Segment C3	32	0	17
Transmission System Segment C4	4	0	2
Transmission System Segment W1	32	0	17
Transmission System Segment W2	8	0	0
Transmission System Segment W3	178	14	93
Transmission System Segment W4	7	2	3
Totals:	438	23	246



# Exhibit 8-1

## San Jacinto River Authority Groundwater Reduction Plan

### Unaudited Schedule of Revenues & Expenses—Actual and Budget

#### For the Twelve Months Ending August 31, 2013

	August	Fiscal Year To Date				Fiscal Budget	
	Actual	Actual	Budget	Variance	% Variance	Total Year Budget	Actual YTD % of Tot Yr. Budget
<b>OPERATING REVENUES</b>							
Water sales							
GRP pumping fees	\$ 3,559,572	\$ 23,955,203	\$ 21,997,181	\$ 1,958,022	9%	\$ 21,997,181	109%
<b>TOTAL OPERATING REVENUES</b>	<b>\$ 3,559,572</b>	<b>\$ 23,955,203</b>	<b>\$ 21,997,181</b>	<b>\$ 1,958,022</b>	<b>9%</b>	<b>\$ 21,997,181</b>	<b>109%</b>
<b>OPERATING EXPENSES</b>							
Payroll & employee benefit expenses	\$ 280,262	\$ 2,712,491	\$ 4,044,146	\$ 1,331,655	33%	\$ 4,044,146	67%
Professional fees	226,501	402,832	344,000	(58,832)	(17%)	344,000	117%
Purchased & contracted services	14,363	116,556	236,750	120,194	51%	236,750	49%
Supplies, materials & utilities	720,776	2,894,330	2,533,168	(361,162)	(14%)	2,533,168	114%
Maintenance repairs, parts & rentals	2,812	13,449	15,360	1,911	12%	15,360	88%
General & administration	111,908	884,811	1,124,319	239,508	21%	1,124,319	79%
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 1,356,623</b>	<b>\$ 7,024,469</b>	<b>\$ 8,297,743</b>	<b>\$ 1,273,274</b>	<b>15%</b>	<b>\$ 8,297,743</b>	<b>85%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES</b>							
Interest on investments	\$ 108,099	\$ 971,262	\$ 2,369,785	\$ (1,398,523)	(59%)	\$ 2,369,785	41%
Other revenues	-	1,430	-	1,430	100%	-	100%
Interest expense	(2,250,508)	(18,333,910)	(17,540,882)	(793,028)	5%	(17,540,882)	105%
<b>TOTAL NON-OPERATING (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (2,082,409)</b>	<b>\$ (17,361,218)</b>	<b>\$ (15,171,097)</b>	<b>\$ (2,190,121)</b>	<b>14%</b>	<b>\$ (15,171,097)</b>	<b>114%</b>
<b>NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ 120,540</b>	<b>\$ (430,483)</b>	<b>\$ (1,471,659)</b>	<b>\$ 1,041,175</b>	<b>(71%)</b>	<b>\$ (1,471,659)</b>	<b>29%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES (NOT BUDGETED)</b>							
Depreciation	\$ (36,709)	\$ (268,358)	\$ -	\$ (268,358)	100%	\$ -	100%
Amortized debt issuance expense	(42,594)	(198,157)	-	(198,157)	100%	-	100%
<b>TOTAL NON-OPERATING (NOT BUDGETED)</b>	<b>\$ (79,302)</b>	<b>\$ (466,515)</b>	<b>\$ -</b>	<b>\$ (466,515)</b>	<b>100%</b>	<b>\$ -</b>	<b>100%</b>
<b>NET INCOME (LOSS) (BUDGETED AND NOT BUDGETED)</b>	<b>\$ 41,238</b>	<b>\$ (896,998)</b>	<b>\$ (1,471,659)</b>	<b>\$ 574,661</b>	<b>100%</b>	<b>\$ (1,471,659)</b>	<b>61%</b>



## Exhibit 8-1 (con't)

### GRP Division

#### Clarification of Actual & Budget Variances

Category	Driver	August 2013	FYTD 2013
GRP Pumping Fees	Usage variance due to weather conditions.	1,115	1,958
Payroll and related expenses	Budgeted positions not filled per schedule.	57	1,332
Professional Fees	Professional fees more than budgeted.	(210)	(59)
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	6	120
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Additional Water Supply	(676)	(376)
	Reservation Fees 2012 true-up	-	33
	Travel, fuel, office supplies, phones, utilities, recruiting and misc. expenses more than budgeted.	(24)	(17)
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	(18)	240
Non-Operating	Interest/Investment Income	(27)	(1,397)
	Depreciation expense	(37)	(268)
	Bond Issuance Cost Amort expense	(42)	(198)
	Bond interest expense	(549)	(793)
		<b><u>(406)</u></b>	<b><u>575</u></b>



## Exhibit 8-2

### San Jacinto River Authority Groundwater Reduction Plan

#### Schedule of Revenues & Expenses—Actual and Budget For the One Month Ending September 30, 2013

	September	Fiscal Year To Date				Fiscal Budget	
	Actual	Actual	Budget	Variance	% Variance	Total Budget Year	Actual YTD % of Tot Yr. Budget
<b>OPERATING REVENUES</b>							
Water sales							
GRP pumping fees	\$ 2,078,619	\$ 2,078,619	\$ 4,001,667	\$ (1,923,048)	(48%)	\$ 34,118,874	6%
<b>TOTAL OPERATING REVENUES</b>	<b>\$ 2,078,619</b>	<b>\$ 2,078,619</b>	<b>\$ 4,001,667</b>	<b>\$ (1,923,048)</b>	<b>(48%)</b>	<b>\$ 34,118,874</b>	<b>6%</b>
<b>OPERATING EXPENSES</b>							
Payroll & employee benefit expenses	\$ 203,560	\$ 203,560	\$ 364,473	\$ 160,912	44%	\$ 4,644,900	4%
Professional fees	38,254	38,254	67,433	29,179	43%	813,000	5%
Purchased & contracted services	610	610	19,989	19,380	97%	239,871	0%
Supplies, materials & utilities	18,145	18,145	347,087	328,942	95%	3,747,401	0%
Maintenance repairs, parts & rentals	-	-	4,180	4,180	100%	17,160	0%
General & administration	26,659	26,659	70,708	44,049	62%	850,563	3%
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 287,228</b>	<b>\$ 287,228</b>	<b>\$ 873,870</b>	<b>\$ 586,642</b>	<b>67%</b>	<b>\$ 10,312,895</b>	<b>3%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES</b>							
Interest on investments	\$ 1,486	\$ 1,486	\$ 58,200	\$ (56,714)	(97%)	\$ 696,936	0%
Interest expense	(1,661,355)	(1,661,355)	(601,722)	(1,059,633)	176%	(14,844,597)	11%
<b>TOTAL NON-OPERATING EXPENSES (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (1,659,869)</b>	<b>\$ (1,659,869)</b>	<b>\$ (543,522)</b>	<b>\$ (1,116,346)</b>	<b>205%</b>	<b>\$ (14,147,661)</b>	<b>12%</b>
<b>NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ 131,522</b>	<b>\$ 131,523</b>	<b>\$ 2,584,274</b>	<b>\$ (2,452,752)</b>	<b>(95%)</b>	<b>\$ 9,658,318</b>	<b>1%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES (NOT BUDGETED)</b>							
Depreciation	\$ -	\$ -	\$ -	\$ -	100%	\$ -	100%
Amortized debt issuance expense	(14,142)	(14,142)	-	(14,142)	100%	-	100%
<b>TOTAL NON-OPERATING (NOT BUDGETED)</b>	<b>\$ (14,142)</b>	<b>\$ (14,142)</b>	<b>\$ -</b>	<b>\$ (14,142)</b>	<b>100%</b>	<b>\$ -</b>	<b>100%</b>
<b>NET INCOME (LOSS)</b>	<b>\$ 117,380</b>	<b>\$ 117,380</b>	<b>\$ 2,584,274</b>	<b>\$ (2,466,894)</b>	<b>(95%)</b>	<b>\$ 9,658,318</b>	<b>1%</b>



## Exhibit 8-2 (con't)

### GRP Division

#### Clarification of Actual & Budget Variances

Category	Driver	September 2013	FYTD 2014
GRP Pumping Fees	Usage variance due to weather conditions.	(1,923)	(1,923)
Payroll and related expenses	Budgeted positions not filled as scheduled	161	161
Professional Fees	Professional fees less than budgeted.	29	29
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	19	19
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Travel, fuel, office supplies, phones, utilities, recruiting and misc. expenses less than budgeted.	29	29
	Additional Water Supply	300	300
	Maintenance repairs, parts & rentals expense less than budgeted.	4	4
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	44	44
Non-Operating	Interest/Investment Income	(57)	(57)
	Depreciation expense	-	-
	Bond Issuance Cost Amort expense	(14)	(14)
	Bond interest expense	(1,059)	(1,059)
		<b>(2,467)</b>	<b>(2,467)</b>



## Exhibit 9

### GRP Program Monthly Meeting Log For September 2013

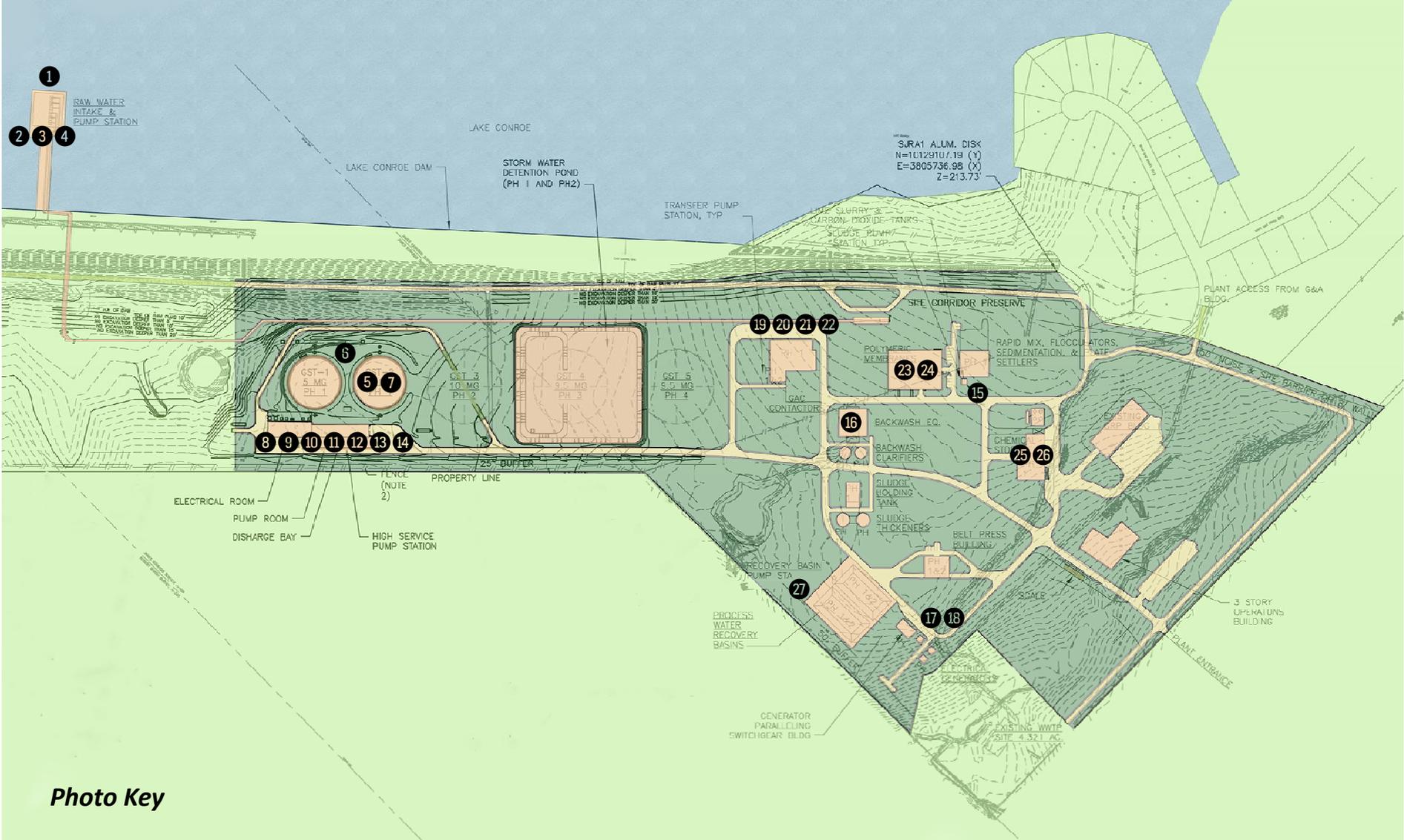
Meeting	Subject of Meeting	Location	Date	Participants
Proposal Opening for Segment C1B	RFP-13-044	G&A Building	9/3/2013	SJRA Staff, GRP Program Team and Offerors
Segment C1A Pre-Proposal Meeting	RFP 13-023	G&A Building	9/5/2013	SJRA Staff, GRP Program Team and Potential Offerors
Surface Water Receiving Facilities - South Pre-Construction Meeting	SWRF-S	GRP Building	9/9/2013	SJRA Staff, GRP Program Team and Consultant Team
Pre-Proposal Conference - Transmission Line Segment W3A	RFP 13-034	G&A Building	9/10/2013	SJRA Staff, GRP Program Team and Potential Offerors
Proposal Opening - Transmission Line	RFP 13-023	G&A Building	9/17/2013	SJRA Staff, GRP Program Team and Offerors
GRP Review Committee Meeting	Agenda Items for September	G&A Board Room	9/23/2013	GRP Review Committee, GRP Staff, SJRA Staff and General Public
Proposal Opening - Transmission Line	RFP 13-034	G&A Building	9/24/2013	SJRA Staff, GRP Program Team and Offerors
SJRA Board of Directors Meeting	Agenda Items for September	G&A Board Room	9/26/2013	SJRA Board of Directors, SJRA Staff and General Public
Construction Administration and Inspection Meetings	CA&I	GRP Building 1	Weekly	SJRA Staff, GRP Program Team and CA&I Team
Land Acquisition Conference Calls	Land Acquisition	GRP Building 1, Andrews Kurth	Weekly	Andrews Kurth, SJRA Staff
Segments W1A and W1B Progress Meetings	Segments W1A and W1B	GRP Building 1	Monthly	SJRA Staff, GRP Program Team and
Segments W2A and W2B Progress Meetings	Segments W2A and W2B	GRP Building 1	Weekly	SJRA Staff, GRP Program Team and
Segments T1, T2 and T3 Progress Meetings	Segments T1, T2 and T3	GRP Building 1	Monthly	SJRA Staff, GRP Program Team and
Segments W3, W4, C1, C2 and C3 Monthly	Segments W3, W4, C1,	GRP Building 1	Monthly	SJRA Staff, GRP Program Team and
Surface Water Facility Progress Meeting	Surface Water Facilities	GRP Building 1	Bi-Monthly	SJRA Staff, CMAR, CA&I and Consultant



## Surface Water Facilities Construction Photos



# EXHIBIT 10 SWF Construction Photos



**Photo Key**



## EXHIBIT 10 SWF Construction Photos



*Overall Aerial View of Surface Water Plant Site - September 25, 2013*

## EXHIBIT 10 (con't) SWF Construction Photos



①②③④ Building Steel Erection Begins at Raw Water Pump Station

## EXHIBIT 10 (con't) SWF Construction Photos



⑤ *Inside Ground Storage Tank No. 2 Showing Baffle Walls and Supports*

## EXHIBIT 10 (con't) SWF Construction Photos



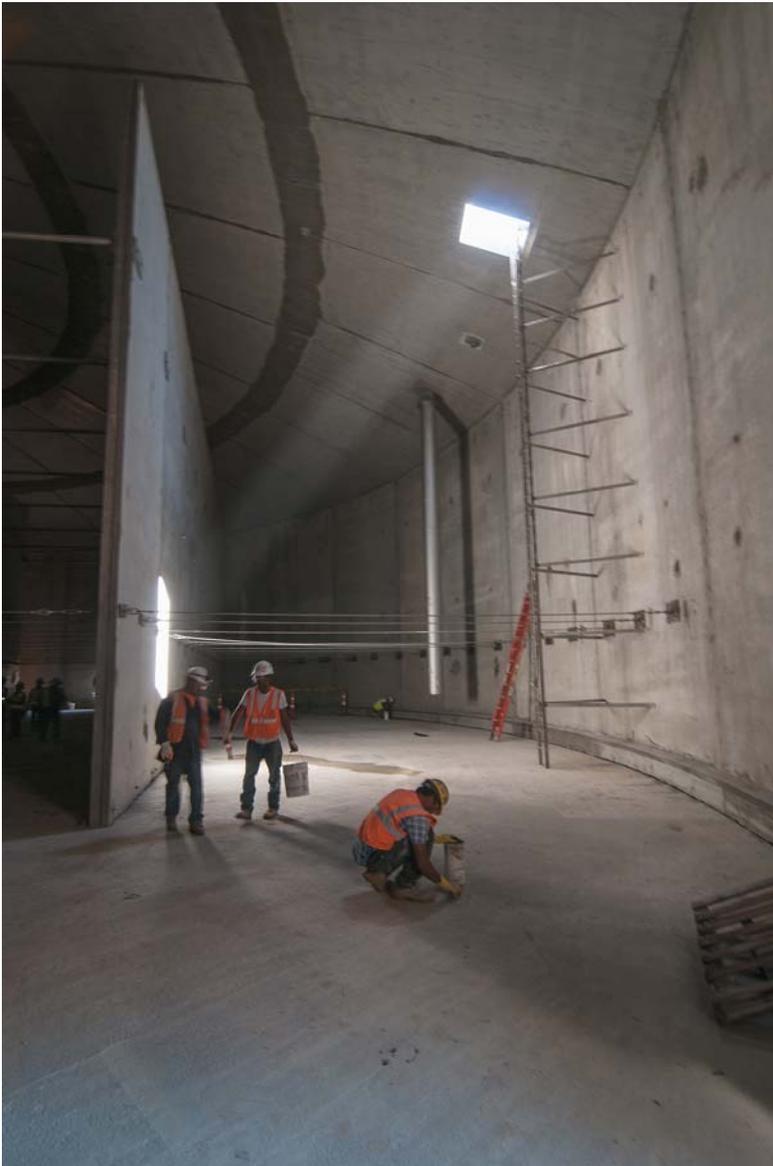
**6789** *Aerial View of Ground Storage Tanks And High Service Pump Station*

## EXHIBIT 10 (con't) SWF Construction Photos



⑥ *Ground Storage Tank Nos. 1 and 2 - Exterior Coating Completed. High Service Pump Station masonry nears completion.*

## EXHIBIT 10 (con't) SWF Construction Photos



**7** GST No. 2 - Workers Prepare for Formal Inspection Inside the Tank



**8** High Service Pump Station - Pump Room



**9** High Service Pump Station - Building Façade Nears Completion

## EXHIBIT 10 (con't) SWF Construction Photos



**10** High Service Pump Station - Pump Room



**11** High Service Pump Station - Scaffolding and Building Masonry Work



**12** High Service Pump Station - Scaffolding and Building Masonry Work



**13** GST Nos. 1 and 2 and High Service Pump Station Building

## EXHIBIT 10 (con't) SWF Construction Photos



14 Installation of Discharge Piping Manifold at High Service Pump Station

## EXHIBIT 10 (con't) SWF Construction Photos



15 Pretreatment Facility



16 Slab Installation at Equalization Basin



17 Installation of the Generator Building



18 Electrical Switchgear Building

## EXHIBIT 10 (con't) SWF Construction Photos



19 20 21 22 Aerial View of Granular Activated Carbon Facilities

## EXHIBIT 10 (con't) SWF Construction Photos



19 20 Rebar Installation at GAC Facilities



21 Walls Backfilled at GAC Facilities



22 GAC Facilities with Membrane Building in Background

## EXHIBIT 10 (con't) SWF Construction Photos



23 Membrane Facilities



24 Pump Room and Piping Channels Inside Membrane Building



25 Masonry Wall Installation at the Warehouse Building



26 Chemical Feed Facilities

## EXHIBIT 10 (con't) SWF Construction Photos



27 *Process Water Recovery Basins*

## Transmission Line Construction Photos Segment T1



# EXHIBIT 11 Transmission Line Construction Photos

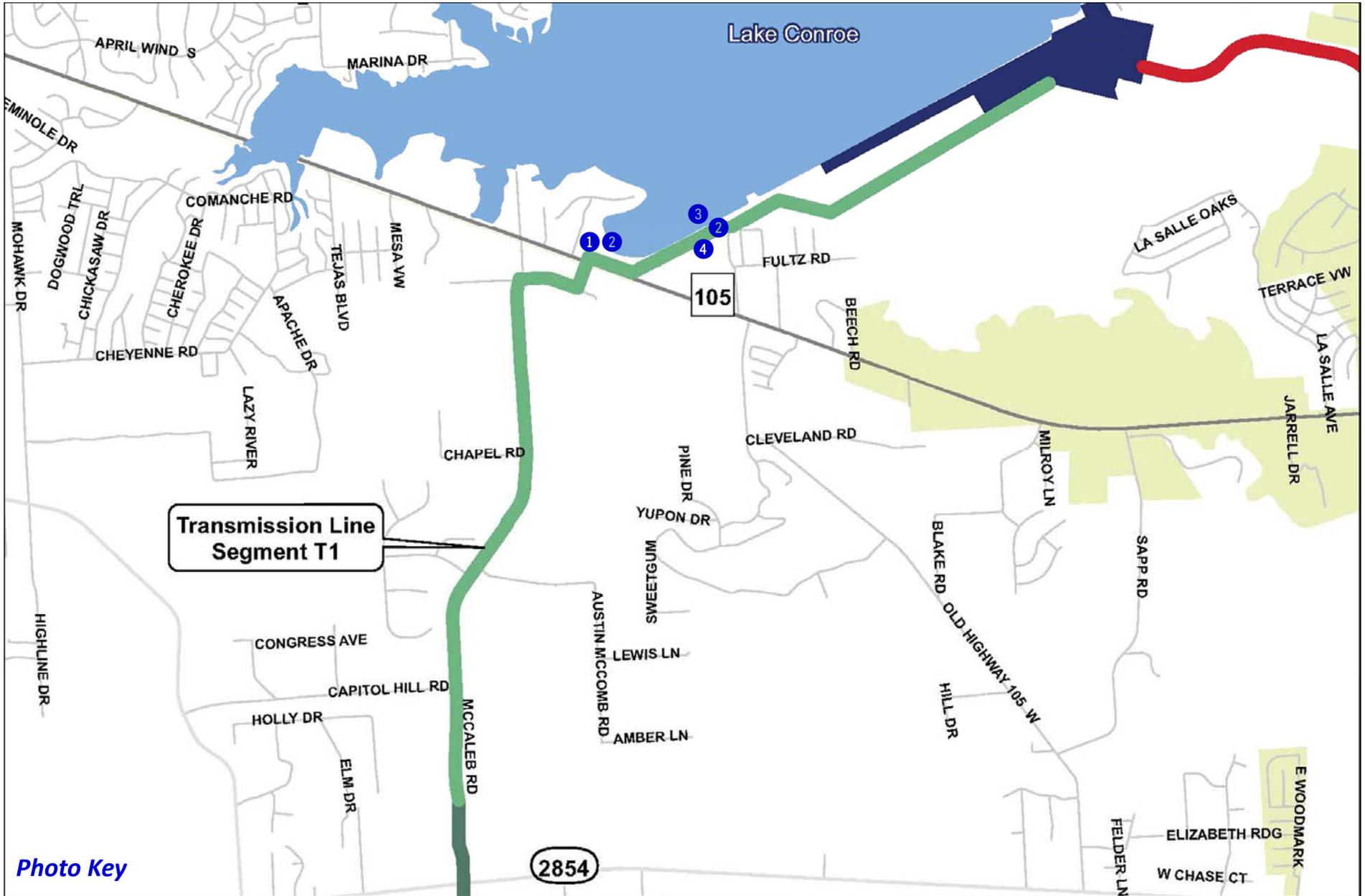


Photo Key



## EXHIBIT 11 (con't) Transmission Line Construction Photos



① *Segment T1 Valve Installation at Highway 105*

## EXHIBIT 11 (con't) Transmission Line Construction Photos



② Segment T1 Valve Installation near Highway 105



③ Segment T1 - Liner Pipe Delivery along Business Lake Drive at Highway 105

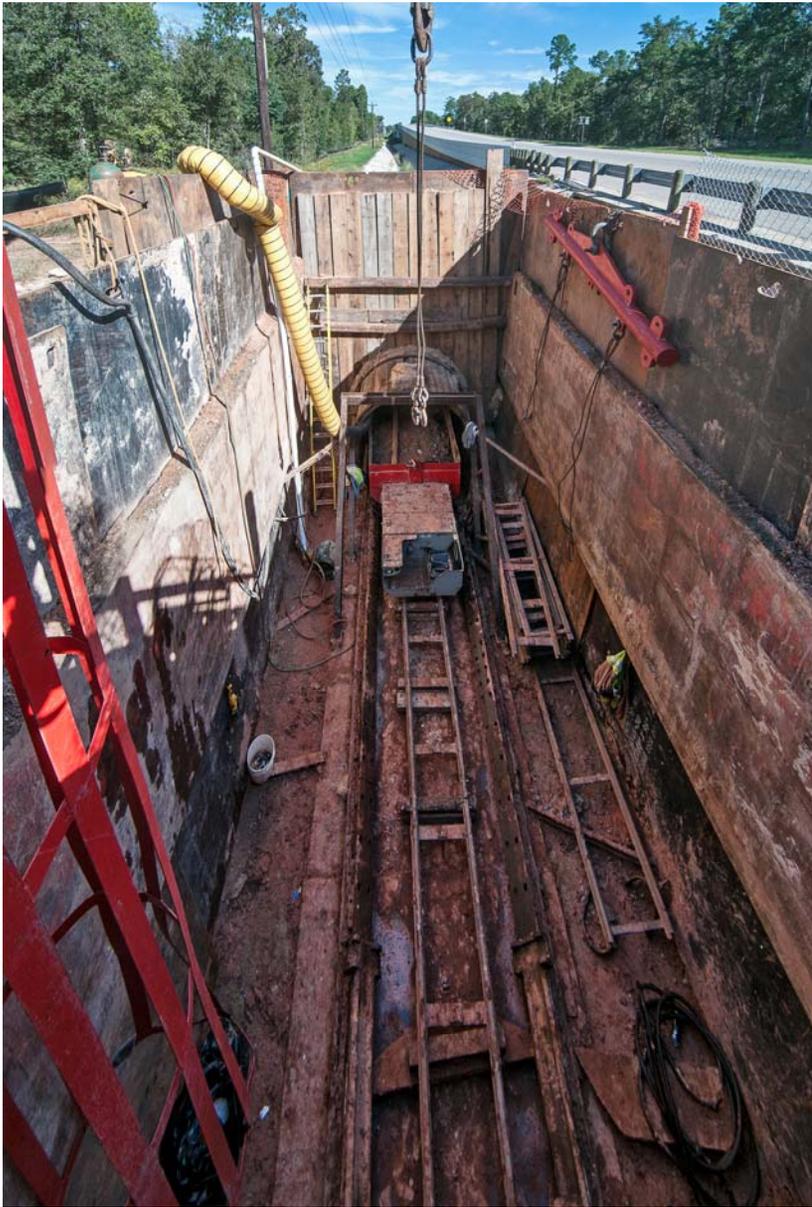
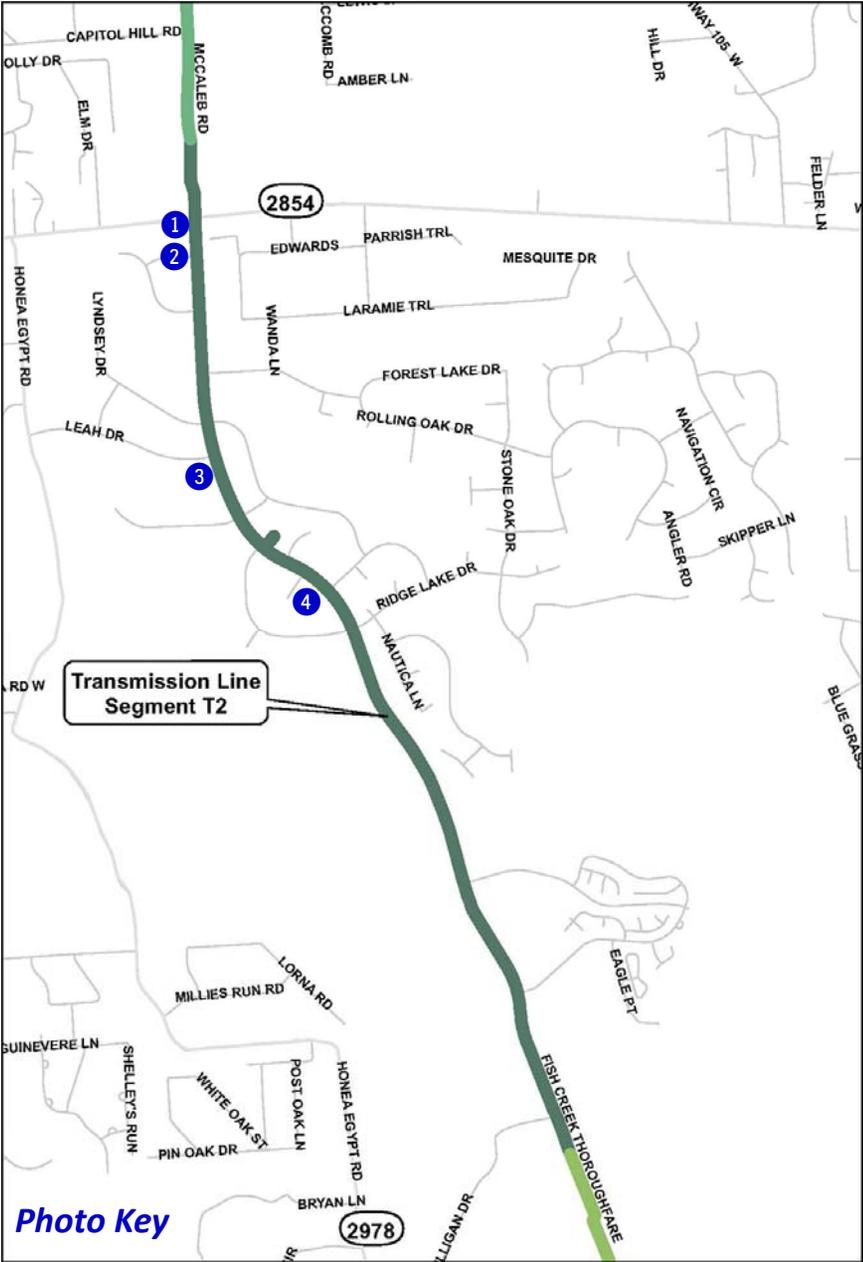


④ Segment T1 - 60-inch Pipe Installation along Lake Business Drive

## Transmission Line Construction Photos Segment T2



# EXHIBIT 11 (con't) Transmission Line Construction Photos



1 Segment T2 Bore Pit Installation along Fish Creek near Railroad Crossing on FM 2854



## EXHIBIT 11 (con't) Transmission Line Construction Photos



② Segment T2 Bore Pit Installation along Fish Creek near Railroad Crossing on FM 2854



③ 60-inch Pipeline Staged for Open-cut Construction along Fish Creek

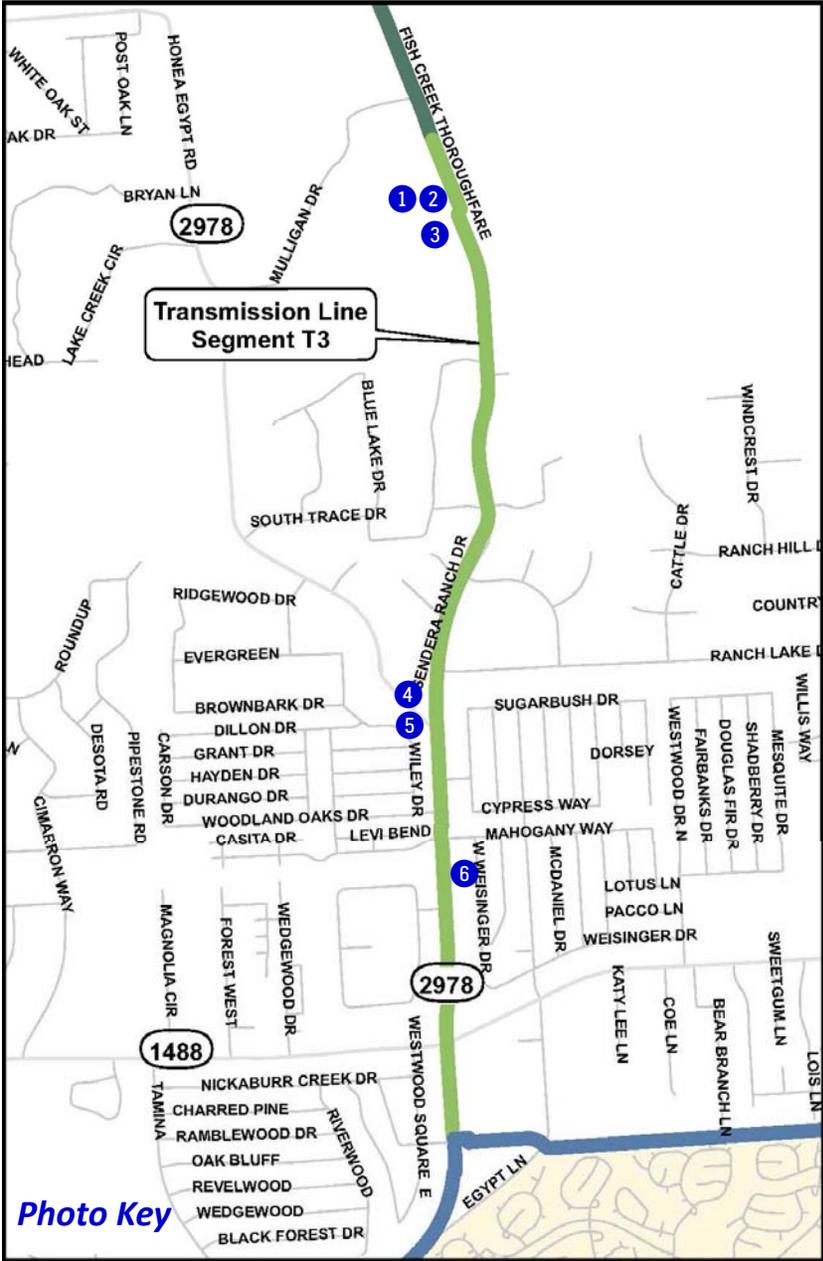


④ 60-inch Open-cut Pipe Installation Along Fish Creek Thoroughfare

## Transmission Line Construction Photos Segment T3



# EXHIBIT 11 (con't) Transmission Line Construction Photos



**1 2** Pipe staged for Installation Along Fish Creek Thoroughfare



## EXHIBIT 11 (con't) Transmission Line Construction Photos



③ *Bore Pit Installation South of Lake Creek Crossing Along Fish Creek Thoroughfare*

## EXHIBIT 11 (con't) Transmission Line Construction Photos



**4 5** *Bore Pit Installation for Minor Creek Crossing*



**6** *Bore Pit Installation for Fish Creek Road Crossing north of Kroger Shopping Center on FM 1488*

## Transmission Line Construction Photos Segment W1A



# EXHIBIT 11 (con't) Transmission Line Construction Photos



## EXHIBIT 11 (con't) Transmission Line Construction Photos



①②③ Segment W1A Along FM 2978 - Trenchless Construction of 16-inch Waterline

## EXHIBIT 11 (con't) Transmission Line Construction Photos



④ Segment W1A Along FM 2978 - Fusing 16-inch Waterline

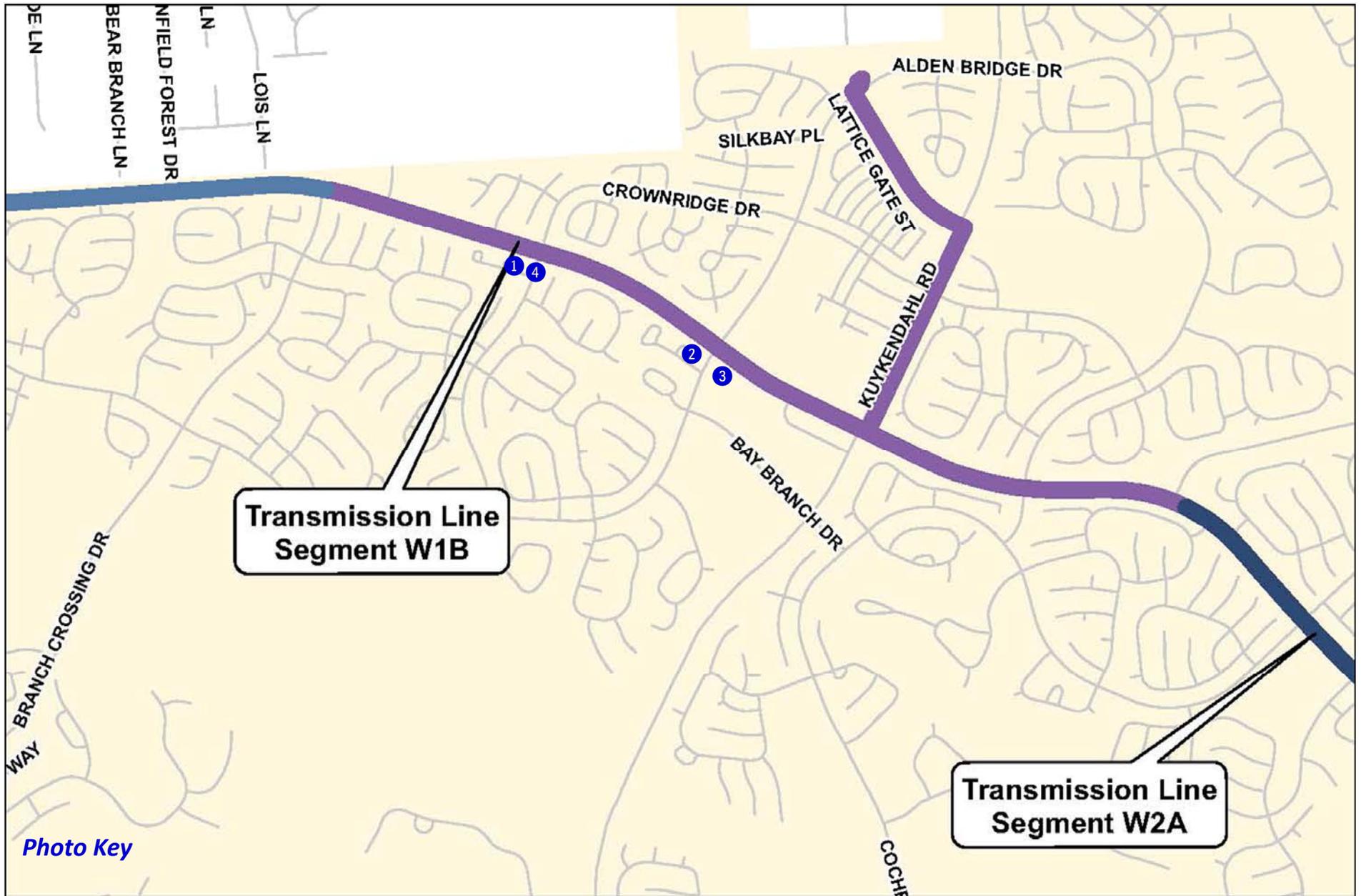


⑤ ⑥ Segment W1A - 42-inch Pipe Along Easement South Of Research Forest

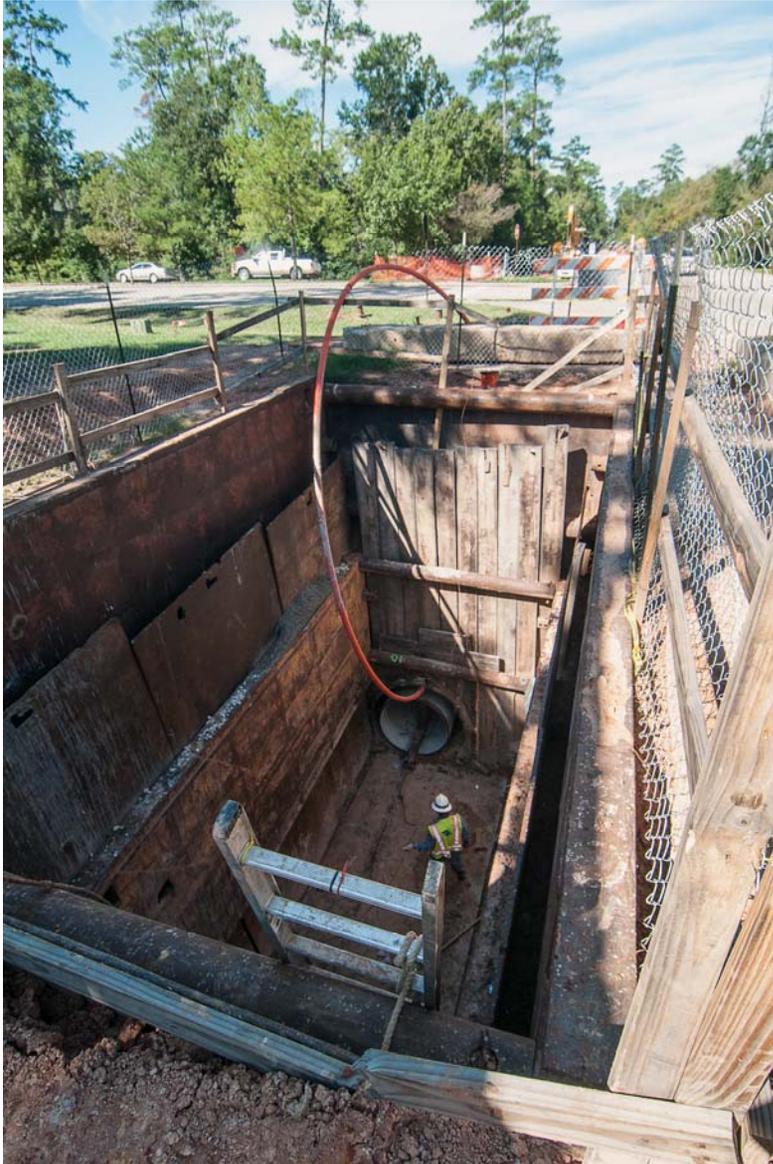
**Transmission Line Construction Photos  
Segment W1B**



# EXHIBIT 11 (con't) Transmission Line Construction Photos



## EXHIBIT 11 (con't) Transmission Line Construction Photos



① Segment W1B - Installation of Tunnel Shaft for Boring Under Crownridge at Research Forest



②③ Segment W1B - Installation of Tunnel Shafts for Boring Under Alden Bridge Drive at Research Forest

## EXHIBIT 11 (con't) Transmission Line Construction Photos

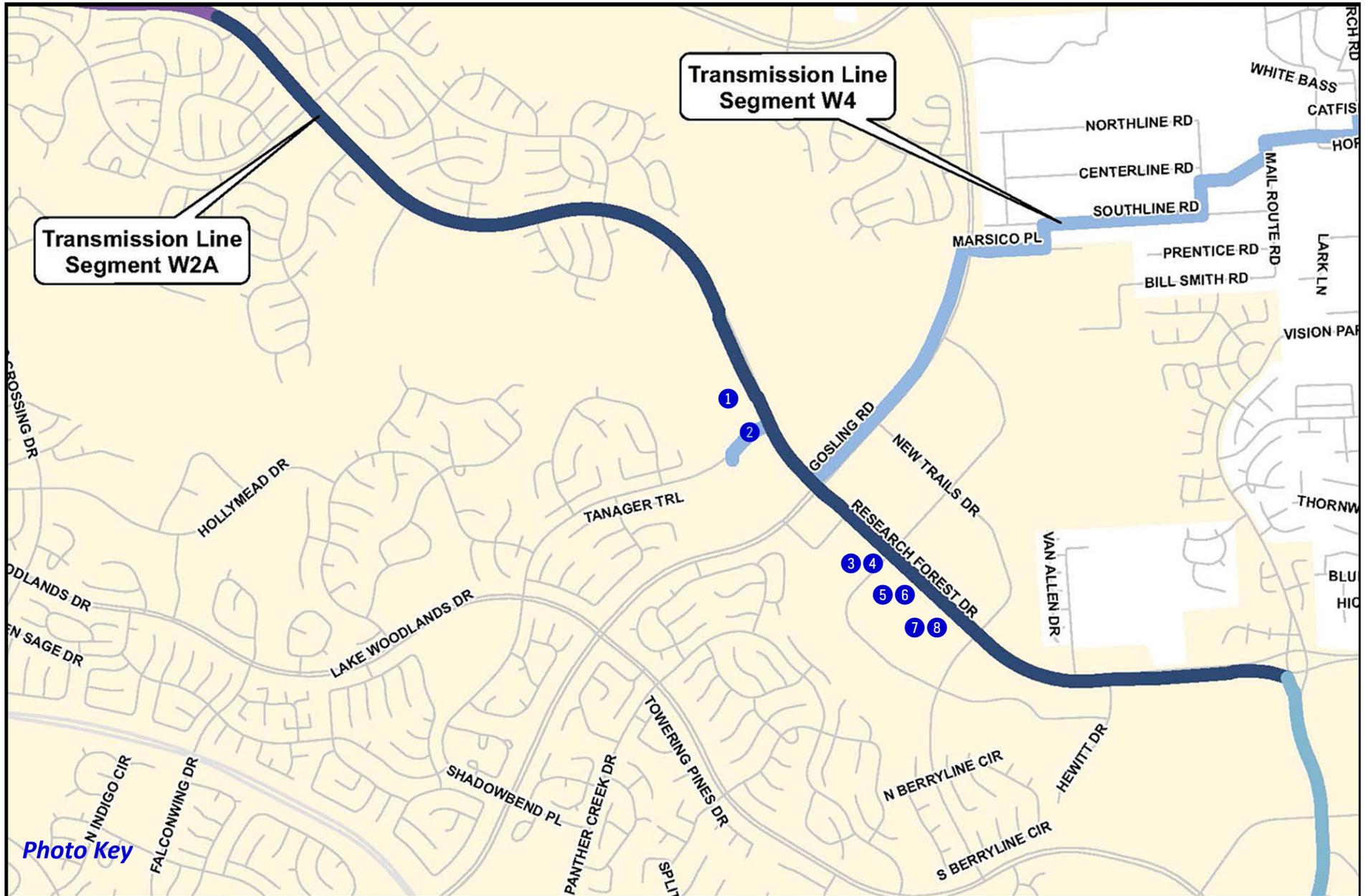


④ Segment W1B - 48-inch Pipeline in Future Research Forest Right-of-Way

**Transmission Line Construction Photos  
Segment W2A**



# EXHIBIT 11 (con't) Transmission Line Construction Photos



## EXHIBIT 11 (con't) Transmission Line Construction Photos



① *Segment W2A - Tunnel Pit Installation Begins in Research Forest at Shadowbend*

## EXHIBIT 11 (con't) Transmission Line Construction Photos



② Segment W2A Traffic Detours at Research Forest and Shadowbend



③ Pavement Removal Begins along Research Forest



④ Pavement Removal along Research Forest near Forest Crossing Drive

## EXHIBIT 11 (con't) Transmission Line Construction Photos



5 Pavement Removal along Research Forest near Forest Crossing



6 Pavement Removal along Research Forest near Forest Crossing



7 Pavement Removal along Research Forest near Forest Crossing

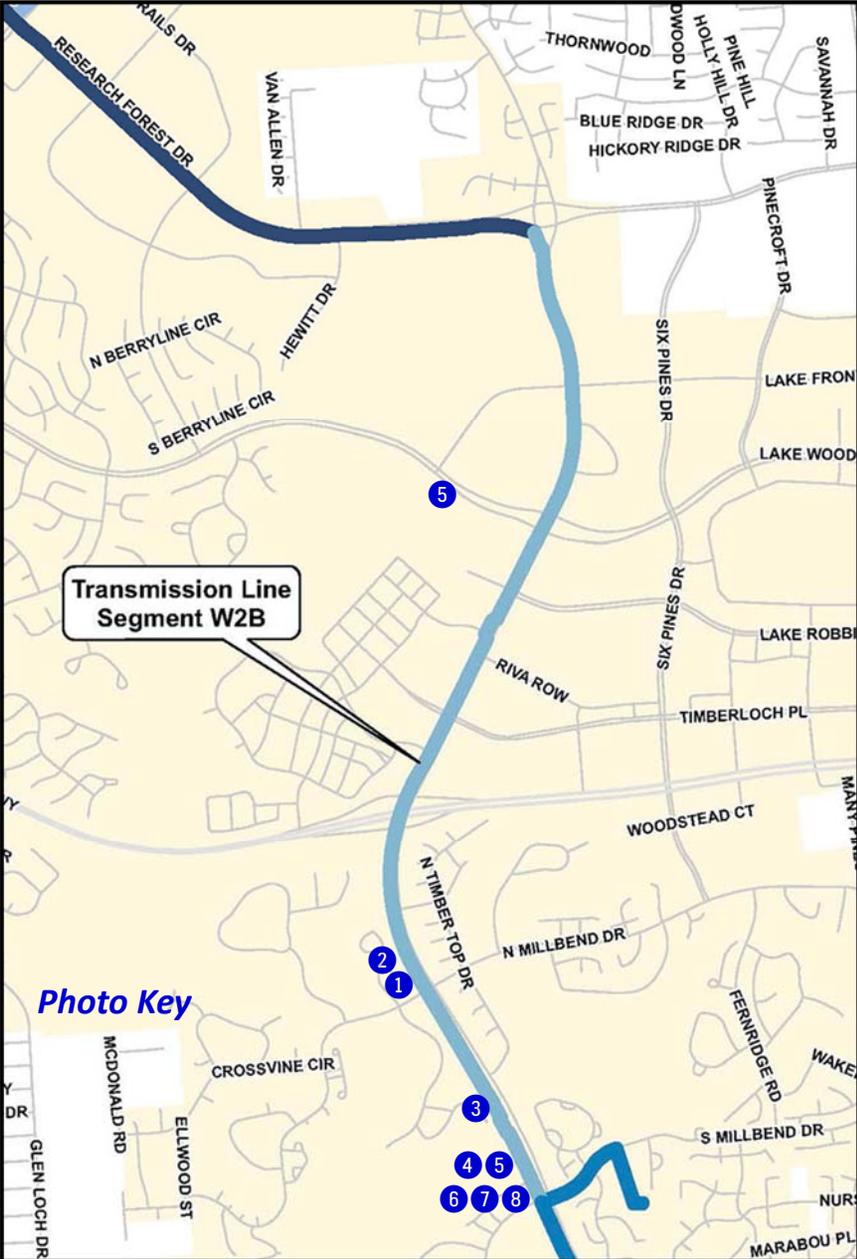


8 30-inch Pipe to be Installed under Research Forest Drive

## Transmission Line Construction Photos Segment W2B



# EXHIBIT 11 (con't) Transmission Line Construction Photos



**1** Tunnel Bore Pit on Grogan's Mill at N. Millbend



## EXHIBIT 11 (con't) Transmission Line Construction Photos



② *First segments of Pipe Installed and Backfilled with Stabilized Sand*



③ *24-inch Pipe Stockpiled for Installation*



④ *Pavement Removal along Grogan's Mill near South Millbend*



⑤ *Tunnel Bore Pit Installation and Traffic Control near South Millbend*

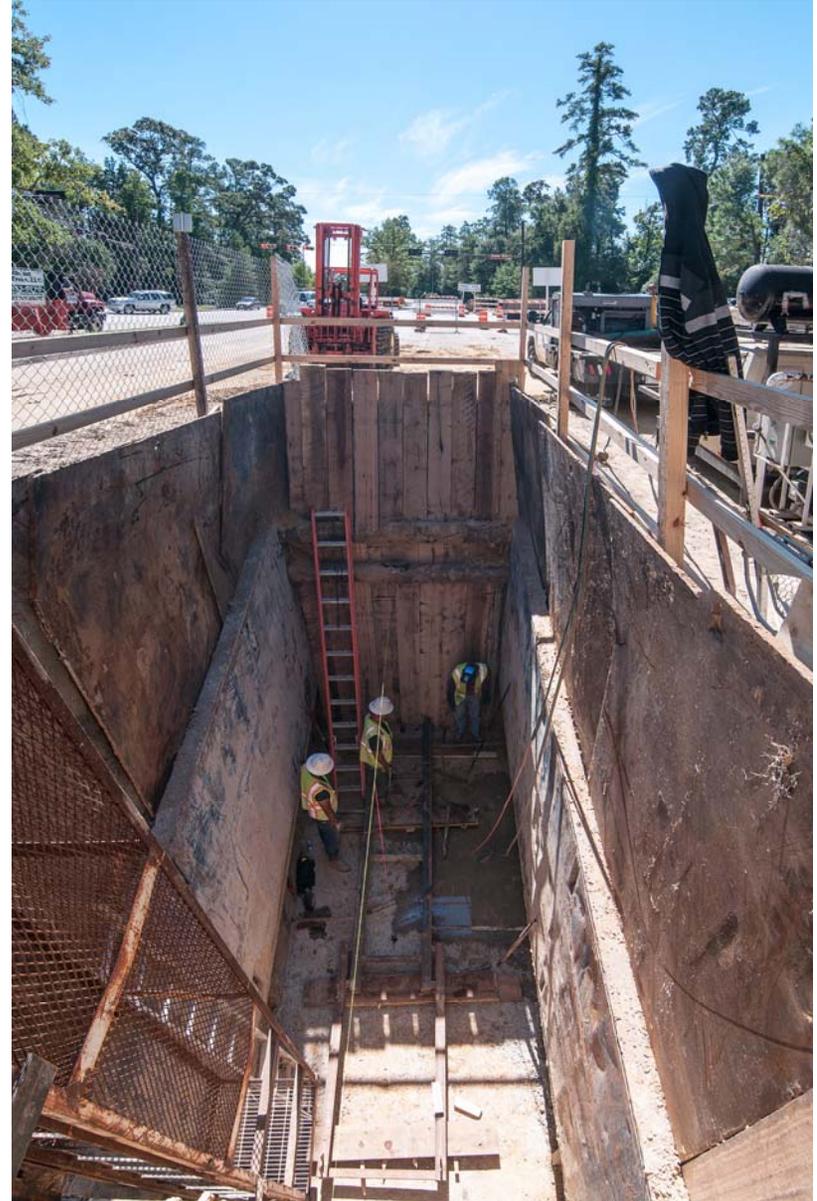
## EXHIBIT 11 (con't) Transmission Line Construction Photos



6 Tunnel Boring Machine Readied for Installation at Grogan's Mill and South Millbend



7 Tunnel Boring Pit at South Millbend



8 Tunnel Boring Pit below Grade at South Millbend