



# GROUNDWATER REDUCTION PLAN PROGRAM

MONTHLY PROGRESS REPORT - NOVEMBER/DECEMBER 2013



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# 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 Materials Testing
<b>CSB / P</b>	Competitive Sealed Bid / Proposal
<b>EA</b>	Environmental Assessment
<b>EAC</b>	Estimate At Completion
<b>FONCS</b>	Fiber Optics Network Communication System
<b>GIS</b>	Geographic Information System
<b>GRP</b>	Groundwater Reduction Plan
<b>GST</b>	Groundwater Storage Tank
<b>HSPS</b>	High Speed Pump Station
<b>LSGCD</b>	Lone Star Groundwater Conservation District
<b>LVGU</b>	Large Volume Groundwater User
<b>NTP</b>	Notice To Proceed
<b>PER</b>	Preliminary Engineering Report
<b>PMP</b>	Program Management Plan
<b>PVC</b>	Polyvinyl Chloride
<b>PSA</b>	Professional Services Agreement
<b>QA</b>	Quality Assurance
<b>RCCP</b>	Reinforced Concrete Cylinder Pipe
<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, HSPH and RWI)
<b>SWRF</b>	Surface Water Receiving Facilities
<b>SWTP</b>	Surface Water Treatment Plant
<b>TCEQ</b>	Texas Commission on Environmental Quality

## DEFINITIONS

<b>TWDB</b>	Texas Water Development Board
<b>TXDOT</b>	Texas Department of Transportation
<b>WIF</b>	Water Infrastructure Fund
<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

Now that all eighteen of the Surface Water Transmission Line Segment construction contracts have been awarded, construction and preparations for construction will be more visible in areas in and around Conroe and The Woodlands. Every effort is being made to ensure commuters traveling in the vicinity of construction areas are well prepared for potential inconveniences that construction projects entail. The latest construction information and traffic alerts can always be found at [www.sjra.net](http://www.sjra.net). In the coming months, alternate route maps for Transmission Line Segments C and T will be added to the website as construction becomes more prevalent in those areas. The GRP Call Center is available twenty-four hours a day, seven days a week, to accommodate all types of inquiries and suggestions related to this project. SJRA staff continues to work with and keep local entities, businesses and homeowners informed as construction progresses.

### 1.2 ENGINEERING AND CONSTRUCTION

All procurement services for construction proposals have been completed and all transmission line construction contracts have been awarded. The engineering consultants will provide construction phase services by reviewing submittals and requests for information 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](#).



*Restrained joint installation along Segment W2A*



## 2.0 PROJECT ACTIVITIES

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. Engineering consultant is providing construction phase services.

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

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

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

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

**Segment W3** – Design is complete. Construction phase services work orders for Segments W3A and W3B were approved at the December SJRA Board of Directors meeting.

**Segment W4** – Design is complete. Engineering consultant is providing construction phase services.

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

**Segment C2** – Design is complete. Engineering consultant is providing construction phase services.

**Segment C3** – Design is complete. Engineering consultant is providing construction phase services.

**Segment C4** – Design is complete. Engineering consultant is providing construction phase services.

**Surface Water Receiving Facilities-North** – Design is complete. Engineering consultant is providing construction phase services.

**Surface Water Receiving Facilities-South** – Design is complete. Engineering

consultant is providing construction phase services.

**Standpipe** - Design is complete. Construction phase services work order was approved at the December SJRA Board of Directors meeting.

**Construction Management and Inspection (CM&I)** – The CM&I consultant provided management and inspection services for Transmission Segments T1, T2, T3, W1A, W1B, W2A, W2B, W4, C1A, C1B, C2, C3, C4, WRF-N and WRF-S.

**Construction Materials Testing Consultant (CMT)** - CMT consultants are currently working with CM&I staff to perform industry standard construction materials testing. Testing includes subgrade and backfill soil densities and concrete pavement properties and compressive strengths.

#### **SURFACE WATER FACILITIES**

**Raw Water Intake Pump Station** – Design is complete. Engineering consultant is providing construction phase services.

**Surface Water Treatment Plant** – Design is complete. Engineering consultant is providing construction phase services.

**High Service Pump Station and Ground Storage Tanks** – Design is complete. Engineering consultant is providing construction phase services.

**Fiber Optic Communications System** – Design is complete. Construction phase services work order was approved at the December SJRA Board of Directors meeting.

**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 PROJECT ACTIVITIES (CONTINUED)**

### **2.2 STATE AGENCY COORDINATION**

**Segment W3A**- TWDB reviewed final submitted documents and issued Notice to Proceed.

**Segment W3B** - TWDB reviewed final submitted documents and issued Notice to Proceed.

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

**Fiber Optic Network System**- TWDB reviewed final submitted documents and issued Notice to Proceed.

**Escrowed Funds Release Request**—Received TWDB approval of escrowed funds release request for \$28,000,000.00



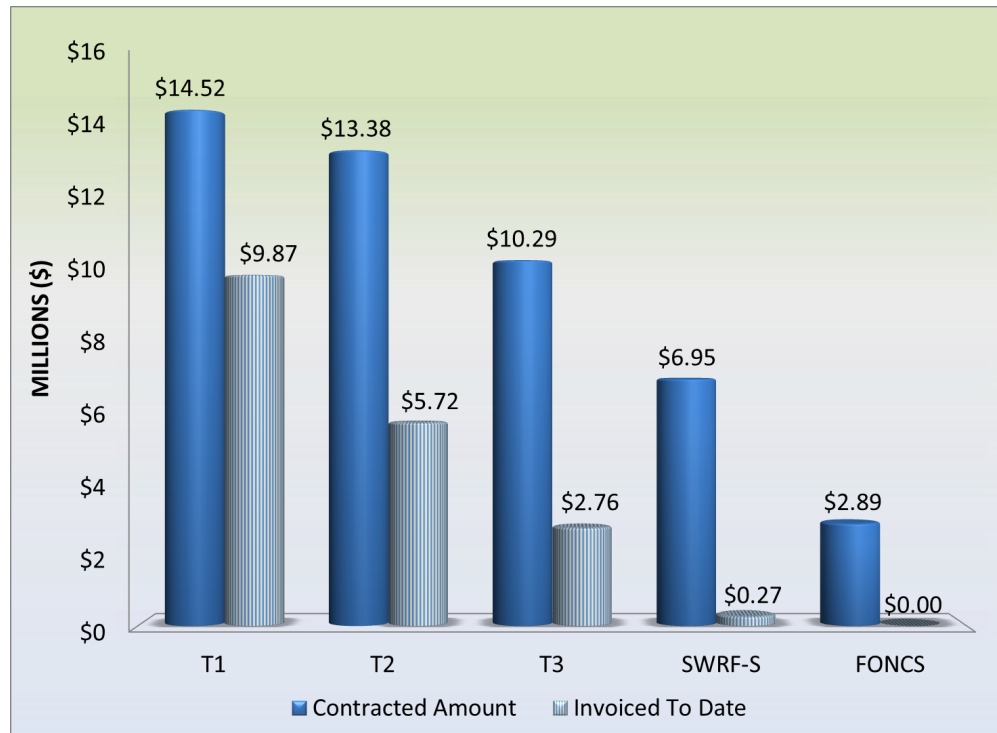
*Installation of valve access manhole along Segment W2A*



## 2.0 PROJECT ACTIVITIES (CONTINUED)

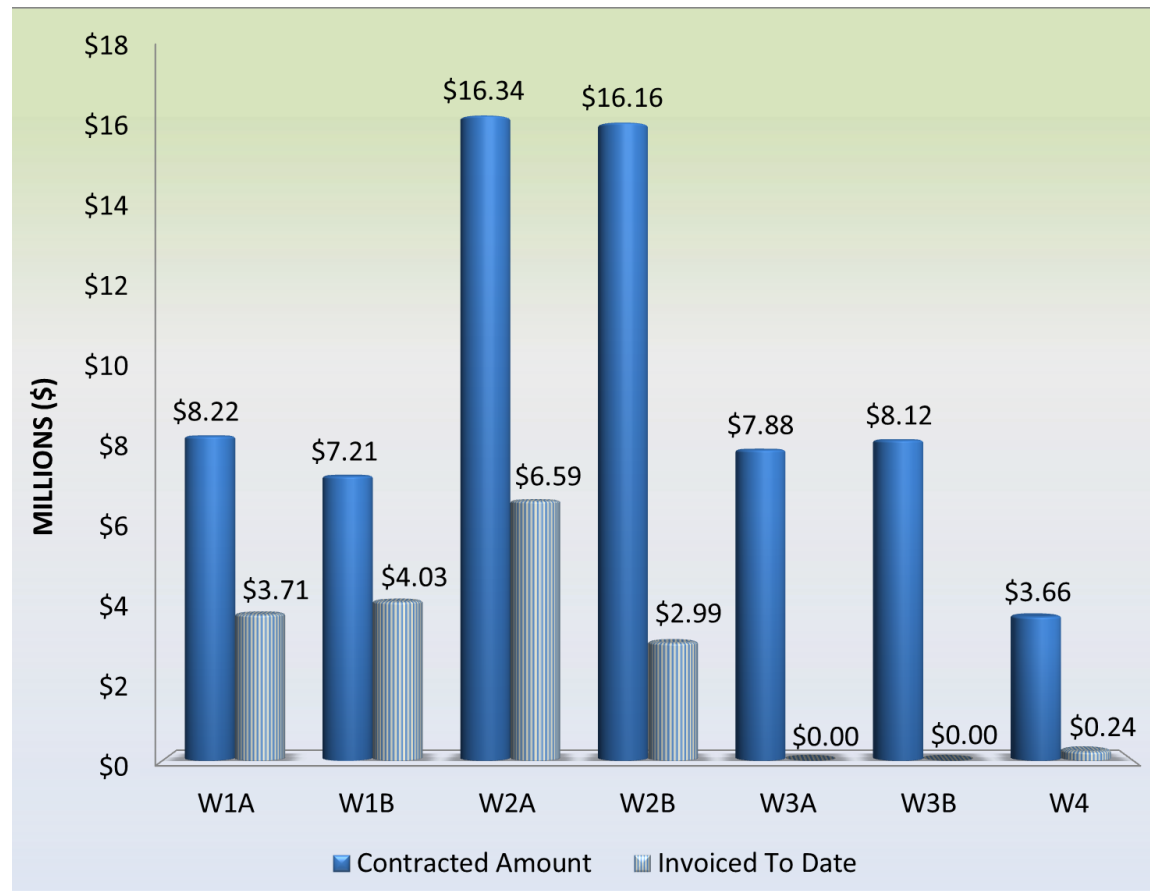
### 2.3 SURFACE WATER TRANSMISSION SYSTEM PROJECT DATA

To date, all eighteen construction contracts and the Fiber Optics Network Communication System contract have been awarded. The following graphs and charts show the progress of Transmission Line Segments T1, T2, T3, W1A, W1B, W2A, W2B, W3A, W3B, W4, C1A, C1B, C2, C3, C4, Surface Water Transmission North Water Receiving Facilities, Surface Water Transmission South Water Receiving Facilities, Standpipe and Fiber Optics Network Communication System thus far.



Segment	T1	T2	T3	SWRF-S	FONCS
Contracted Amount	\$14,521,937.14	\$13,383,928.25	\$10,287,576.00	\$6,952,400.00	\$2,885,432.35
Invoiced To Date	\$9,872,745.59	\$5,720,426.78	\$2,763,856.94	\$270,740.00	\$0.00
% Construction Complete	68%	43%	27%	4%	0%

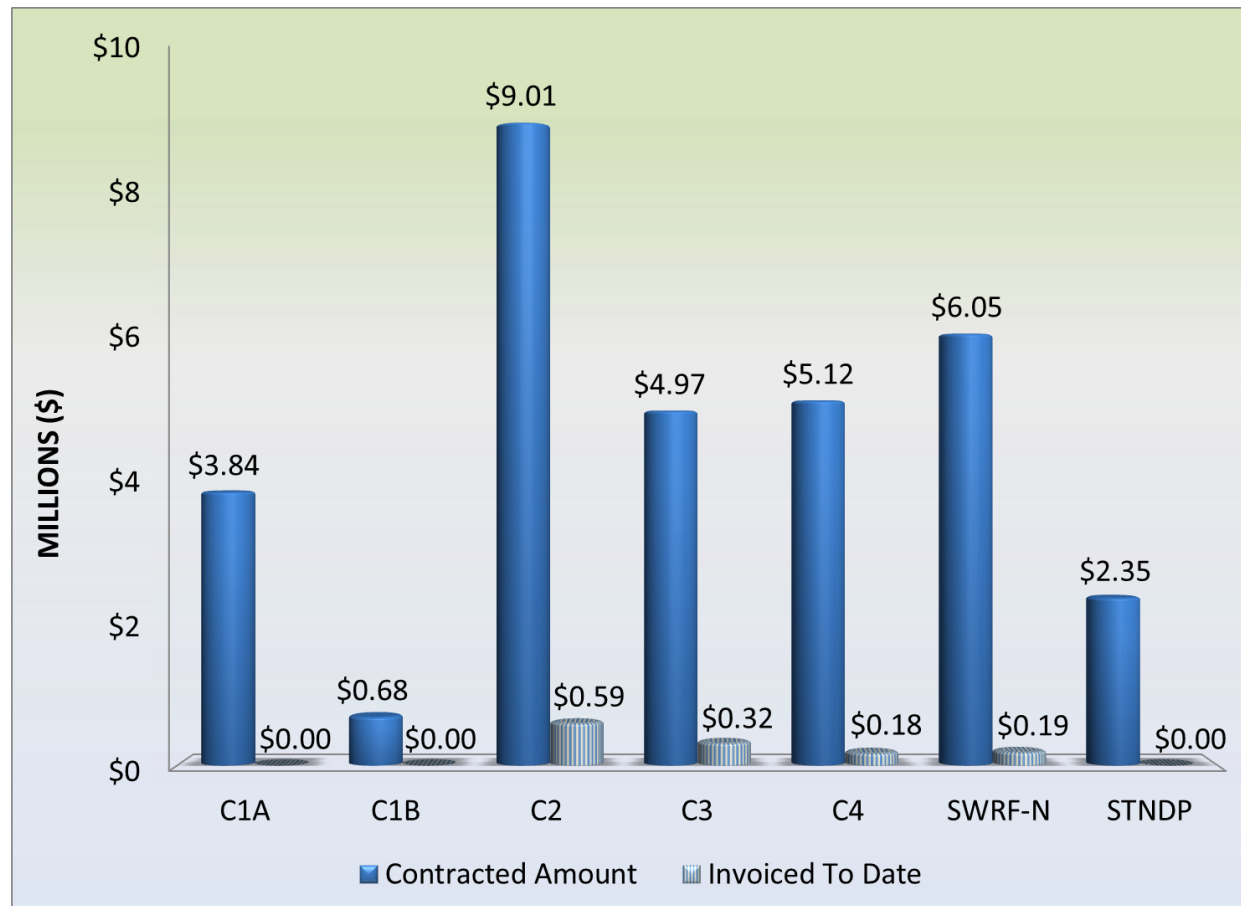
## 2.0 PROJECT ACTIVITIES (CONTINUED)



Segment	W1A	W1B	W2A	W2B	W3A	W3B	W4
Contracted Amount	\$8,222,000.50	\$7,213,544.50	\$16,340,258.02	\$16,161,600.00	\$7,880,207.50	\$8,124,485.50	\$3,656,604.23
Invoiced To Date	\$3,706,039.71	\$4,034,005.62	\$6,585,012.95	\$2,993,437.04	\$0.00	\$0.00	\$240,897.22
% Construction Complete	45%	56%	40%	19%	0%	0%	7%



## 2.0 PROJECT ACTIVITIES (CONTINUED)



Segment	C1A	C1B	C2	C3	C4	SWRF-N	STANDPIPE
Contracted Amount	\$3,837,683.40	\$683,491.53	\$9,014,837.00	\$4,972,314.80	\$5,115,396.90	\$6,054,860.00	\$2,354,175.00
Invoiced To Date	\$0.00	\$0.00	\$594,941.00	\$316,233.68	\$175,209.07	\$188,440.00	\$0.00
% Construction Complete	0%	0%	7%	6%	3%	3%	0%

## 2.0 PROJECT ACTIVITIES (CONTINUED)

### 2.4 SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

**Segment T1** - Contractor continued open-cut installation of 60-inch concrete coated steel pipe along McCaleb Road in November and December. Tree clearing work along McCaleb Road was completed in November. Approximately 12,141 feet of 60-inch concrete coated steel pipe has been installed through December. (See Exhibit 11, Page 46 )

**Segment T2** - Contractor continued open-cut installation of 54-inch concrete coated steel pipe and tunnel casing installation along Fish Creek Thoroughfare in November and December. Approximately 8,899 feet of concrete coated steel pipe installed through December. (See Exhibit 11, Page 48)

**Segment T3** - Contractor began tree clearing work and open-cut installation of 54-inch concrete coated steel pipe in November. These activities continued in December. Approximately 3,907 feet of 54-inch concrete coated steel pipe installed through December. (See Exhibit 11, Page 50 )

**Segment W1A** - Contractor began open-cut installation of 48-inch concrete coated steel pipe along future Research Forest Drive and continued trenchless installation of 16-inch PVC pipe from SJRA Water Plant No. 4 along FM 2978 in November. These activities continued in December. Contractor also began boring pit excavation for fault line tunneling along Research Forest Drive in November and continued in December. Contractor also continued installation of traffic control appurtenances in November and December. Approximately 17,258 feet of concrete coated steel and 16-inch PVC pipe installed through December. (See Exhibit 11, Page 52 )

**Segment W1B** - Contractor completed open-cut installation of 20-inch PVC pipe along Panther Creek Tributary and Kuykendahl Road and 16-inch PVC pipe to SJRA Water Plant No. 3 in November. Contractor continued open-cut installation of 48-inch concrete coated steel pipe along Research Forest Drive in November and December. Approximately 11,533 feet of 16-inch and 20-inch PVC pipe and 48-inch concrete coated steel pipe installed through December. (See Exhibit 11, Page 54)

**Segment W2A** - Contractor continued 24/7 open-cut installation of 42-inch

concrete coated steel pipe and 30-inch PVC pipe along Research Forest Drive between Shadowbend Drive and Grogans Mill Road in November and December. Pipe installation for the accelerated portion of the project was completed in December. Contractor began placing pavement, approximately 9,000 square yards, along Research Forest Drive in November and December. Approximately 7,574 feet of 42-inch concrete coated steel pipe and 30-inch PVC pipe installed through December. (See Exhibit 11, Page 56)

**Segment W2B** - Contractor continued open-cut installation of 30-inch PVC pipe along Grogans Mill Road in November and December. Contractor installed traffic control appurtenances in November. Approximately 4,240 feet of 30-inch PVC pipe installed through December. (See Exhibit 11, Page 58)

**Segment W4** - Contractor began survey and critical locate work in November and continued in December. Contractor began fusing and laying out 20-inch PVC pipe and began installing filter fabric fence and tree protection appurtenances in December. No pipe installed through December.

**Segment C1A** - Contractor began submittal process in November and continued in December. No pipe installed through December.

**Segment C1B** - Contractor began tree clearing work along GRP access road in November and along Longmire Road in December. All project tree clearing work was completed in December. No pipe installed through December.

**Segment C2** - Contractor began open-cut installation of 12-inch PVC pipe along Entergy/Copano easement corridor in December. Pipe installation across O.A. Reaves Elementary School property and from City of Conroe Water Plant No. 6, to Longmire Road was completed in December. Contractor began tree clearing work in November and continued in December. Approximately 2,000 feet of 12-inch PVC pipe installed through December. (See Exhibit 11, Page 60)



## 2.0 PROJECT ACTIVITIES (CONTINUED)

**Segment C3** - Contractor began tree clearing work in November and continued in December. Contractor began open-cut installation of 20-inch PVC pipe along Tom Stinson Drive in December. Approximately 2,668 feet of 20-inch PVC pipe installed through November. (See Exhibit 11, Page 62)

**Segment C4** - Contractor began and completed tree clearing work and existing utility relocations in December. No pipe installed through December.

### **SURFACE WATER RECEIVING FACILITIES**

**Surface Water Receiving Facilities—North** - Contractor began and completed tree clearing work in November. Minimal work performed in December due to contractor awaiting delivery of long lead items. (See Exhibit 11, Page 64)

**Surface Water Receiving Facilities—South** - Contractor began tree clearing work in November and continued in December. Contractor began installing stormwater protection, building pads, electrical appurtenances, and underground conduit at various facilities in November and continued in December. (See Exhibit 11, Page 66)

### **2.5 SURFACE WATER FACILITY CONSTRUCTION PROGRESS AND PROJECT DATA**

**Raw Water Intake** - Erection of the steel and decking was completed. Roof panel installation is on-going. Masonry work began and electrical work is underway.

**Surface Water Treatment Plant** - Construction work continues at the Operations, Chemical, Electrical, Generator, Pretreatment, Membrane, Backwash, Equalization, Process Water Recovery Basin, Belt Filter Press Building, and GAC facilities. The Warehouse is complete. Electrical, Earthwork and structural concrete placement, structural steel and precast erection, and masonry are the main trades working on the site. Process piping installation is well underway.

**High Service Pump Station** - Masonry work is nearing completion at the HSPS. Discharge bay piping installation and electrical work is underway.

**Ground Storage Tanks** - The second Ground Storage Tank passed its required 48-hour water tightness and settlement tests. Aeration piping installation has begun in both tanks.

**Site Work** - Large diameter yard piping, potable water piping, sanitary sewer and drain line installation is in progress. Electrical duct bank installations are well underway.

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

Name of Project	Contracted Amount	Invoiced To Date	% Construction Complete
Surface Water Facilities	\$190,704,740	\$78,787,630.00	41%



*Surface Water Facilities — Concrete Mixers at Raw Water Intake*

## **3.0 PROCUREMENT**

### **3.1 SOLICITATIONS**

The following solicitations for proposals for construction were advertised in November:

- RFP 13-067—Fiber Optics Network Communication System
- RFP 13-035—Segment W3B—Proposed 12", 16", 18" and 20" Water Transmission Line
- RFP 13-045—Standpipe

### **3.2 CONTRACT AWARDS**

The following contracts were awarded for construction in December:

- 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
- Construction Contract for Surface Water Transmission Line Segment W3A
- Work Order No. 8 for Construction Phase Services by Design Consultant during construction of Surface Water Transmission Line Segment W3A
- Construction Contract for Surface Water Transmission Line Segment W3B
- Work Order No. 9 for Construction Phase Services during the Construction of Surface Water Transmission Line Segment W3B
- Construction Contract for Surface Water Transmission System Fiber Optic Network Communication System
- Work Order No. 5 for Construction Phase Services by Design Consultant during construction of Surface Water Transmission System Fiber Optic Network Communication System

### **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 relocation and easement encroachment agreements. Solicitations may be combined, modified, or canceled, or time frames may be modified as deemed necessary.

- Work Order No. 17 for Additional Services Associated with the Surface Water Treatment Plant
- Work Order No. 6 for Inspection of Surface Water Transmission System Fiber Optic Network Communication System
- Supplemental Agreement with MUD 99/115
- Work Order No. 1 for Preliminary Engineering of Surface Water Transmission Line, Segment W3C for the GRP Program
- Work Order No. 2 for Survey and Subsurface Utility Exploration of Surface Water Transmission Line, Segment W3C for the GRP Program
- Work Order No. 3 for Environmental Study of Surface Water Transmission Line, Segment W3C for the GRP Program
- Professional Services Agreement and Work Order No. 1 for Support of Extension of GRP Program Delivery System for the GRP Program
- Engagement Letter Agreement for Legal Services related to Land Acquisition of Extension of GRP Program Delivery System
- Professional Services Agreement—Work Order No. 1 for Land Acquisition Support Services for Extension of GRP Program Delivery System



## 4.0 COST REPORT AND FINANCIAL CONSIDERATIONS

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

Through December, 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**.

A summary of the SJRA GRP Division's Fiscal Year 2014 operating budget (revenue and expenditures) for the months of November and December are provided as **Exhibit 8-1** and **Exhibit 8-2**, respectively. 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 \$479,743,492.79); 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 5-1** and **Exhibit 5-2** illustrate the funding sources presently applied towards the GRP Program CIP budget for the months of November and December, 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 below in Tables 4.1a and 4.1b for the months of November and December, respectively. 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

The tables below represent November and December GRP Program Consultant Invoices and/or Construction Contractor Applications for Payment paid through the end of each report month (Item F).

Table 4.1a - GRP Program Funding and Contracted Commitments Summary - November			
	Previous 10/31/2013	November 2013 Activity	Year to Date (Thru 11/30/13)
A. Approved Funding	552,250,358.49	3,240.00	552,253,598.49
B. Available Funding After Costs	479,746,021.87	3,240.00	479,749,261.87
C. Approved Contracts	424,381,463.11	103,240.00	424,484,703.11
D. Project Close Out	(807,901.43)	(0.01)	(807,901.44)
E. Uncontracted Funding	56,172,460.19	(99,999.99)	56,072,460.20
F. Invoices Paid	139,750,703.74	24,121,766.89	163,872,470.63
G. Remaining Funds	339,995,318.13	(24,118,526.89)	315,876,791.24

Table 4.1b - GRP Program Funding and Contracted Commitments Summary - December			
	Previous 11/30/2013	December 2013 Activity	Year to Date (Thru 12/31/13)
A. Approved Funding	552,253,598.49	0.00	552,253,598.49
B. Available Funding After Costs	479,749,261.87	0.00	479,749,261.87
C. Approved Contracts	424,484,703.11	30,964,112.97	455,448,816.08
D. Project Close Out	(807,901.44)	(0.01)	(807,901.45)
E. Uncontracted Funding	56,072,460.20	(30,964,112.96)	25,108,347.24
F. Invoices Paid	163,872,470.63	17,676,922.90	181,549,393.53
G. Remaining Funds	315,876,791.24	(17,676,922.90)	298,199,868.34

## 4.0 COST REPORT AND FINANCIAL CONSIDERATIONS (CONTINUED)

### 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 meetings this month. Each item was authorized by the SJRA Board of Directors for execution by the SJRA General Manager.

### 4.5 CLAIMS

No claims were received 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 Tables 4.1a and 4.1b. 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 various land acquisition consultants, continued to make progress in acquiring the land and easements necessary for the surface water transmission system. Sixteen easements were acquired in November and December; two related to Segment

T3, one related to Segment W2; eight related to Segment W3; three related to Segment C2; and two related to Segment C3. Final negotiations to acquire the remaining easements throughout the system are at or near final stages of completion. A cumulative summary of easement acquisition activity is provided in Exhibit 7.



*Surface Water Facilities—View of aeration system inside Ground Storage Tank*

## **5.0 QUALITY ASSURANCE**

### **5.1 FINAL DESIGN**

Final design is complete for Surface Water Treatment Plant, Transmission Lines, Standpipe, Fiber Optic Network, and Water Receiving Facilities. Design of permanent access road and site landscaping will occur in the future.

### **5.2 PRE-CONSTRUCTION**

There were no pre-proposal conferences held in November or December. The CM&I, consultant and GRP Program Design Team conducted pre-construction conferences in November for Transmission Line Segments C1A, C1B, and C3.

### **5.3 CONSTRUCTION**

Quality assurance efforts by SJRA construction inspectors, as well as the CA&I consultant continued this month on the SWF project. Virtually every building on the Surface Water Facilities project site is progressing timely toward meeting the established SWF substantial completion date. Quality administration efforts include regular visits to the project site to monitor and document observed progress. Similar quality assurance efforts by SJRA construction inspectors and the CM&I consultant continued this month on the transmission lines.



*Surface Water Facilities— Electrical duct bank installation near Electrical Building*



## **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

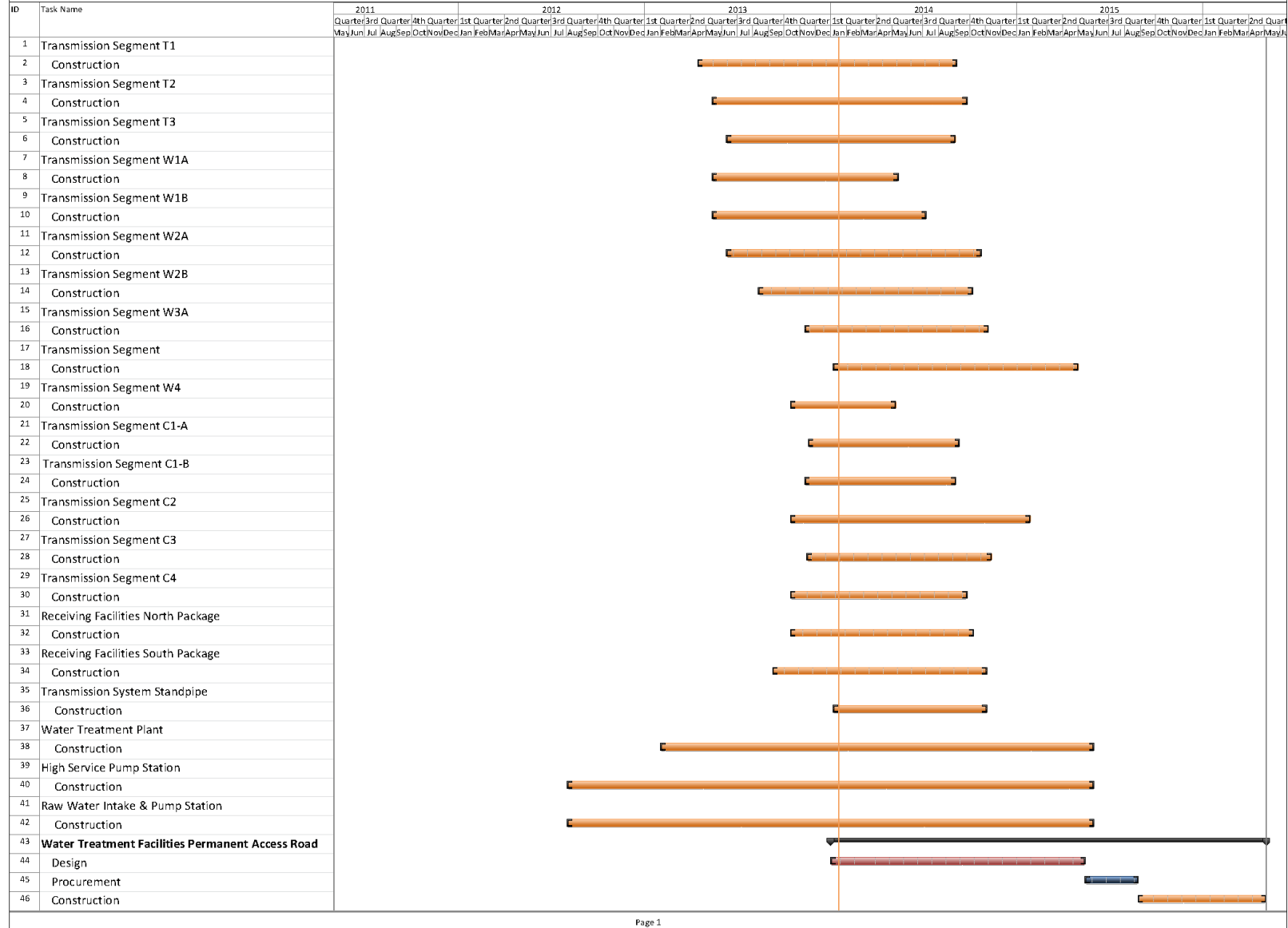
**Exhibit 10** - Surface Water Facilities (SWF) Construction Photos

**Exhibit 11** - Transmission Line System Construction Photos



*Surface Water Facilities—HSPS discharge header*

## Exhibit 1 - GRP Program Schedule



## Exhibit 2

### GRP Program Estimate-At-Completion As of December 31, 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>\$ 43,476,863</b>
(Planning, Preliminary Engineering, Final Engineering, Geotechnical, Survey, Metes & Bounds, Subsurface Utility Investigation, Environmental)	
<b>Construction Phase Services</b>	<b>\$ 28,830,764</b>
(Engineering Services During Construction, Construction Management & Inspection [Transmission System], Construction Administration & Inspection [SWF], Material Testing)	
<b>Construction</b>	<b>\$ 389,734,492</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	\$ 34,126,951
Transmission Segment W3 - Construction	\$ 16,804,928
Transmission Segment W4 - Construction	\$ 3,839,434
Transmission System Standpipe	\$ 2,486,884
Receiving Facilities - Construction	\$ 16,558,667
Surface Water Facilities CMAR (GMP)	\$ 190,704,740
Transmission System Fiber Optic - Construction	\$ 3,029,704
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)	\$ 19,716,328
Non-Project Specific Contingency	\$ 9,246,737
<b>Program Management</b>	<b>\$ 10,819,738</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>\$ 490,502,595</b>

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

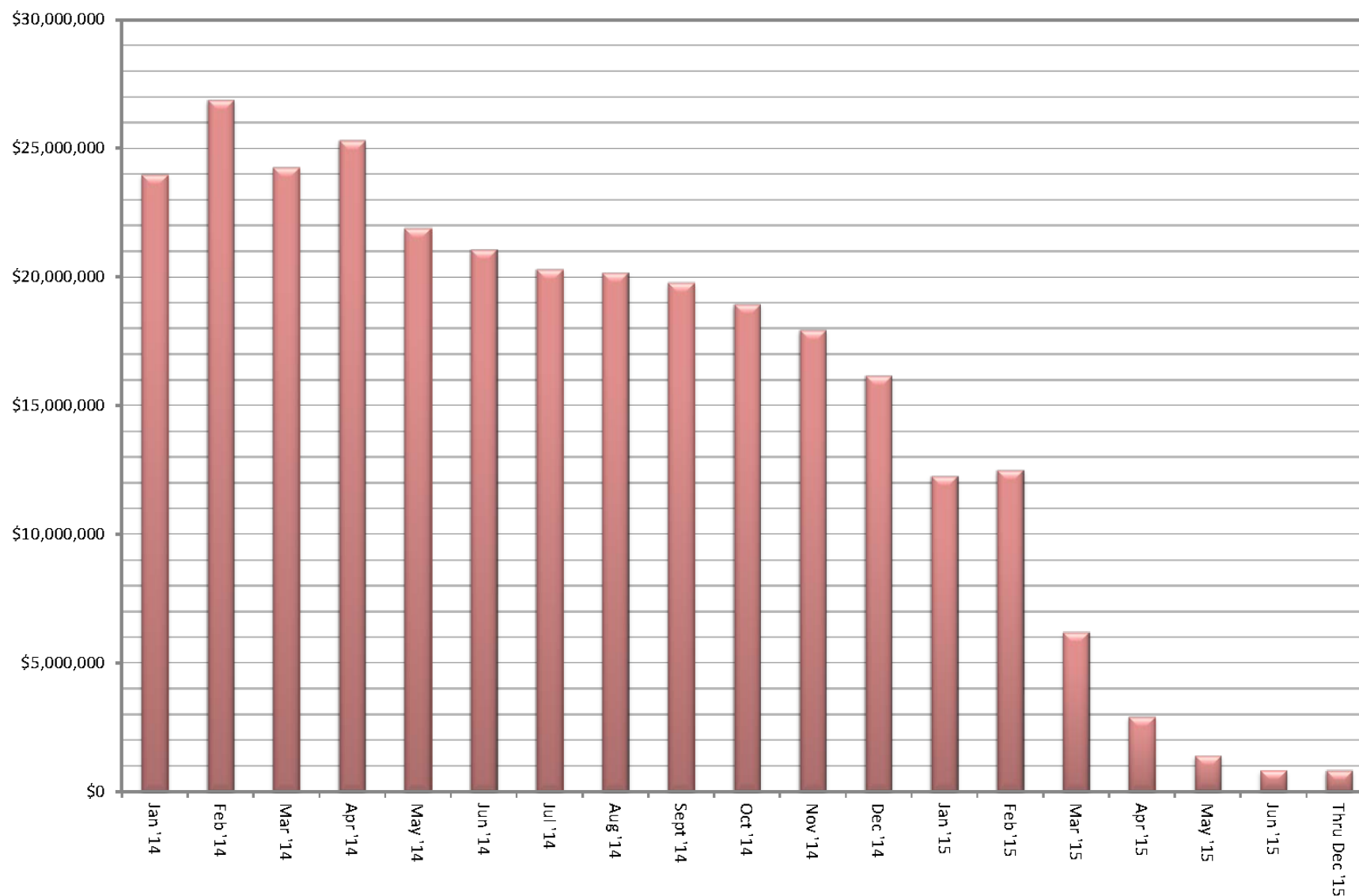
<sup>(2)</sup> Bond issuance costs are not included.





### Exhibit 3

#### GRP Program Monthly Forecasted Expenditures As of December 31, 2013



## Exhibit 4

### GRP Program Fund Data As of December 31, 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%	\$ 631,279.08	\$ 3,214,292.00	\$ 3,073,489.18	\$ 32,930,939.74	
<b>Subtotal Approved Amounts</b>	<b>\$ 552,250,358.49</b>		<b>\$ 5,826,615.00</b>	<b>\$ 43,247,610.52</b>	<b>\$ 23,432,640.18</b>	<b>\$ 479,743,492.79</b>	
<b>Future Series 2014 (Est.)</b>	<b>\$ 12,085,000.00</b>	<b>4.54%</b>	<b>\$ 321,200.00</b>	<b>\$ 1,004,698.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,759,102.00</b>
<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>\$ 6,147,815.00</b>	<b>\$ 44,252,308.52</b>	<b>\$ 23,432,640.18</b>	<b>\$ 479,743,492.79</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 5-1

## Monthly GRP Program Financing Report

### Fiscal Year 2014

### Through November 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)	Operating (Cash)	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
Operating Funds Commitment							\$ 3,240.00	\$ 3,240.00
<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>\$ 3,240.00</b>	<b>\$ 552,253,598.49</b>
<b>B. Contracted Costs</b>								
Contracts Completed	\$ 17,811,662.84	\$ 23,321,930.47	\$ 4,478,360.74	\$ -	\$ -	\$ -	\$ -	\$ 45,611,954.05
Current Contract Values	\$ 3,199,479.00	\$ 28,774,442.89	\$ 48,878,417.21	\$ 161,159,055.87	\$ 123,853,342.07	\$ 8,772,001.13	\$ 3,240.00	\$ 374,639,978.17
Change Orders	\$ -	\$ 2,873,912.12	\$ 307,126.75	\$ -	\$ 1,051,732.02	\$ -	\$ -	\$ 4,232,770.89
Project Close Out	\$ (315,554.78)	\$ (492,328.15)	\$ (18.51)	\$ -	\$ -	\$ -	\$ -	\$ (807,901.44)
<b>Total</b>	<b>\$ 20,695,587.06</b>	<b>\$ 54,477,957.33</b>	<b>\$ 53,663,886.19</b>	<b>\$ 161,159,055.87</b>	<b>\$ 124,905,074.09</b>	<b>\$ 8,772,001.13</b>	<b>\$ 3,240.00</b>	<b>\$ 423,676,801.67</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	\$ 78,344.24	\$ 6,983,141.16	\$ 3,753,069.84	\$ 19,153,726.68	\$ 19,645,152.77	\$ -	\$ -	\$ 49,613,434.69
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>\$ 20,994,285.87</b>	<b>\$ 58,701,668.38</b>	<b>\$ 27,046,025.06</b>	<b>\$ 68,739,865.41</b>	<b>\$ 53,978,431.35</b>	<b>\$ 6,916,531.18</b>	<b>\$ -</b>	<b>\$ 236,376,807.25</b>
<b>D. Remaining</b>								
Uncontracted Funds	\$ 334,075.86	\$ 19,044,395.25	\$ 4,029,534.48	\$ (0.00)	\$ 8,502,986.92	\$ 24,161,467.69	\$ -	\$ 56,072,460.20
Funding Balance *	\$ 505,714.13	\$ 24,728,690.11	\$ 40,423,974.94	\$ 106,260,134.59	\$ 111,021,568.65	\$ 32,933,468.82	\$ 3,240.00	\$ 315,876,791.24

\*Excluding net investment income





# Exhibit 5-2

## Monthly GRP Program Financing Report

### Fiscal Year 2014

### Through December 31, 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)	Operating (Cash)	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
Operating Funds Commitment							\$ 3,240.00	\$ 3,240.00
<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>\$ 3,240.00</b>	<b>\$ 552,253,598.49</b>
<b>B. Contracted Costs</b>								
Contracts Completed	\$ 17,811,662.84	\$ 25,127,544.42	\$ 4,524,046.32	\$ -	\$ 197,380.00	\$ -	\$ -	\$ 47,660,633.58
Current Contract Values	\$ 3,199,479.00	\$ 35,990,526.94	\$ 48,878,417.21	\$ 161,159,055.87	\$ 126,551,191.11	\$ 27,662,126.48	\$ 3,240.00	\$ 403,444,036.61
Change Orders	\$ -	\$ 2,873,912.12	\$ 418,501.75	\$ -	\$ 1,051,732.02	\$ -	\$ -	\$ 4,344,145.89
Project Close Out	\$ (315,554.78)	\$ (492,328.16)	\$ (18.51)	\$ -	\$ -	\$ -	\$ -	\$ (807,901.45)
<b>Total</b>	<b>\$ 20,695,587.06</b>	<b>\$ 63,499,655.32</b>	<b>\$ 53,820,946.77</b>	<b>\$ 161,159,055.87</b>	<b>\$ 127,800,303.13</b>	<b>\$ 27,662,126.48</b>	<b>\$ 3,240.00</b>	<b>\$ 454,640,914.63</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	\$ 78,344.24	\$ 8,749,085.13	\$ 5,148,887.74	\$ 25,187,467.68	\$ 28,126,572.80	\$ -	\$ -	\$ 67,290,357.59
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>\$ 20,994,285.87</b>	<b>\$ 60,467,612.35</b>	<b>\$ 28,441,842.96</b>	<b>\$ 74,773,606.41</b>	<b>\$ 62,459,851.38</b>	<b>\$ 6,916,531.18</b>	<b>\$ -</b>	<b>\$ 254,053,730.15</b>
<b>D. Remaining</b>								
Uncontracted Funds	\$ 334,075.86	\$ 10,022,697.26	\$ 3,872,473.90	\$ (0.00)	\$ 5,607,757.88	\$ 5,271,342.34	\$ -	\$ 25,108,347.24
Funding Balance *	\$ 505,714.13	\$ 22,962,746.14	\$ 39,028,157.04	\$ 100,226,393.59	\$ 102,540,148.62	\$ 32,933,468.82	\$ 3,240.00	\$ 298,199,868.34

\*Excluding net investment income



## Exhibit 6

### GRP Program Current Authorizations As of December 31, 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	\$ 3,252,056.39
W3	Cobb Fendley	\$ 3,932,308.00
W4	LJA	\$ 1,366,335.57
C1	Dannenbaum	\$ 961,635.69
C2	Schaumburg & Polk	\$ 1,418,951.72
C3	Kimley Horn	\$ 897,638.59
C4	RG Miller	\$ 387,701.04
Fiber Optic	EMA	\$ 832,533.04
WRFs	Malcom Pirnie/Arcadis	\$ 2,680,366.57
CM&I	Kellog Brown & Root	\$ 8,657,135.48
<b>Subtotal - Surface Water Transmission System</b>		<b>\$ 33,090,114.95</b>

#### Surface Water Facilities - Consultant Services

Project	Firm	Amount Authorized by Board
WTP	HDR Engineering	\$ 18,583,396.92
HSPS	AECOM	\$ 4,904,794.39
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>\$ 32,983,878.66</b>

#### Program Consultant Services & Other Projects

Project	Firm	Amount Authorized by Board
Program Management	Brown & Gay	\$ 10,695,226.55
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	\$ 857,366.25
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	\$ 832,533.04
Program Corrosion	V&A Consulting Engineers	\$ 866,676.00
Program Legal Services & Projects	Multiple	\$ 5,729,235.44
<b>Subtotal - Program Consultant Services &amp; Other Projects</b>		<b>\$ 22,890,500.84</b>

#### Active or Completed Construction Contracts

## Exhibit 6 (con't)

### GRP Program Current Authorizations As of December 31, 2013

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	\$ 2,103,792.46
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 C1A	Garney Companies, Inc.	\$ 3,837,683.40
Transmission Segment C1B	E.P. Brady, LTD.	\$ 683,491.53
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	\$ 16,340,258.02
Transmission Segment W2B	Texas Sterling Construction Company	\$ 16,161,600.00
Transmission Segment W3A	Huff & Mitchell, Inc.	\$ 7,880,207.50
Transmission Segment W3B	Garney Companies, Inc.	\$ 8,124,485.50
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
Transmission SCADA - Fiber Optic Construction	Fisk Electric Company	\$ 2,885,432.35
Miscellaneous	Other Construction Contracts, Permits, Fees, etc.	\$ 305,163.05
<b>Subtotal - Construction Contracts</b>		<b>\$ 347,333,791.15</b>

#### Totals

	Amount Authorized by Board
Surface Water Transmission System - Consultant Services	\$ 33,090,114.95
Surface Water Facilities - Consultant Services	\$ 32,983,878.66
Program Consultant Services & Other Projects	\$ 22,890,500.84
Active or Completed Construction Contracts	\$ 347,333,791.15
<b>Total</b>	<b>\$ 436,298,285.60</b>



## Exhibit 7

### GRP Program Land Acquisition Summary As of December 31, 2013

Project	Anticipated Number of Easements to Acquire	Easements Acquired This Month	Total Easements Acquired and Filed	Total Easements Remaining to be Finalized <sup>1</sup>
Transmission System Segment T1	59	0	58	1
Transmission System Segment T2	0	0	0	0
Transmission System Segment T3	18	2	13	5
Transmission System Segment C1	19	0	17	2
Transmission System Segment C2	80	3	73	7
Transmission System Segment C3	34	2	21	13
Transmission System Segment C4	4	0	3	1
Transmission System Segment W1	32	0	32	0
Transmission System Segment W2	10	1	10	0
Transmission System Segment W3	177	8	158	19
Transmission System Segment W4	9	0	9	0
<b>Totals:</b>	<b>442</b>	<b>16</b>	<b>394</b>	<b>48</b>

<sup>1</sup> Note: Includes final cleanup of title on other legal issues, while right of entry may have been required

# Exhibit 8-1

## San Jacinto River Authority Groundwater Reduction Plan Schedule of Revenues & Expenses—Actual and Budget For the Three Months Ending November 30, 2013

San Jacinto River Authority  
Groundwater Reduction Plan  
For the Three Months Ending November 30, 2013

	Nov	Fiscal Year To Date				Fiscal Budget	
	Actual	Actual	Budget	Variance	% Variance	Total Year Budget	Actual YTD % of Total Year Budget
<b>OPERATING REVENUES</b>							
GRP pumping fees	\$ 2,052,380	\$ 7,836,811	\$ 9,623,197	\$ (1,786,386)	(19%)	\$ 34,118,874	23%
<b>TOTAL OPERATING REVENUES</b>	<b>\$ 2,052,380</b>	<b>\$ 7,836,811</b>	<b>\$ 9,623,197</b>	<b>\$ (1,786,386)</b>	<b>(19%)</b>	<b>\$ 34,118,874</b>	<b>23%</b>
<b>OPERATING EXPENSES</b>							
Payroll & employee benefit expenses	\$ 209,335	\$ 634,504	\$ 1,093,418	\$ 458,913	42%	\$ 4,644,900	14%
Professional fees	31,191	108,394	206,099	97,705	47%	813,000	13%
Purchased & contracted services	14,343	23,645	59,968	36,323	61%	239,871	10%
Supplies, materials & utilities	38,878	227,386	436,562	209,176	48%	3,747,401	6%
Maintenance repairs, parts & rentals	1,288	4,629	6,540	1,911	29%	17,160	27%
General & administration	51,421	139,350	212,124	72,774	34%	850,563	16%
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 346,456</b>	<b>\$ 1,137,908</b>	<b>\$ 2,014,710</b>	<b>\$ 876,803</b>	<b>44%</b>	<b>\$ 10,312,895</b>	<b>11%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES</b>							
Interest on investments	\$ 42,364	\$ 143,015	\$ 175,171	\$ (32,156)	(18%)	\$ 696,936	21%
Interest expense	(1,791,964)	(5,245,283)	(2,732,658)	(2,512,625)	92%	(14,844,597)	35%
<b>TOTAL NON-OPERATING (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (1,749,600)</b>	<b>\$ (5,102,268)</b>	<b>\$ (2,557,487)</b>	<b>\$ (2,544,781)</b>	<b>100%</b>	<b>\$ (14,147,661)</b>	<b>36%</b>
<b>NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (43,675)</b>	<b>\$ 1,596,635</b>	<b>\$ 5,050,999</b>	<b>\$ (3,454,364)</b>	<b>(68%)</b>	<b>\$ 9,658,318</b>	<b>17%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES (NOT BUDGETED)</b>							
Depreciation	\$ (22,829)	\$ (67,728)	\$ -	\$ (67,728)	100%	\$ -	0%
Amortized debt issuance expense	-	-	-	-	0%	-	0%
<b>TOTAL NON-OPERATING (NOT BUDGETED)</b>	<b>\$ (22,829)</b>	<b>\$ (67,728)</b>	<b>\$ -</b>	<b>\$ (67,728)</b>	<b>100%</b>	<b>\$ -</b>	<b>0%</b>
<b>NET INCOME (LOSS) (BUDGETED AND NOT BUDGETED)</b>	<b>\$ (66,504)</b>	<b>\$ 1,528,907</b>	<b>\$ 5,050,999</b>	<b>\$ (3,522,092)</b>	<b>(70%)</b>	<b>\$ 9,658,318</b>	<b>16%</b>

## Exhibit 8-1 (con't)

### GRP Division

#### Clarification of Actual & Budget Variances

Category	YTD - Driver	November 2013	FYTD 2014
GRP Pumping Fees	Usage variance due to weather conditions.	(343)	(1,786)
Payroll and related expenses	Budgeted positions not filled as scheduled	155	459
Professional Fees	Professional fees less than budgeted.	42	98
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	5	36
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Travel, fuel, office supplies, phones, utilities, recruiting and misc. expenses less than budgeted.	5	52
	Additional Water Supply	-	157
	Maintenance repairs, parts & rentals expense less than budgeted.	-	2
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	20	73
Non-Operating	Interest/Investment Income	(16)	(32)
	Depreciation expense	(23)	(68)
	Bond Issuance Cost Amort expense	-	-
	Bond interest expense	(727)	(2,513)
		<u>(882)</u>	<u>(3,522)</u>





## Exhibit 8-2

### San Jacinto River Authority Groundwater Reduction Plan Schedule of Revenues & Expenses—Actual and Budget For the Four Months Ending December 31, 2013

Dec	Fiscal Year To Date					Fiscal Budget	
	Actual	Actual	Budget	Variance	% Variance	Total Year Budget	Actual YTD % of Total Year Budget
<b>OPERATING REVENUES</b>							
GRP pumping fees	\$ 1,486,146	\$ 9,322,957	\$ 11,584,306	\$ (2,261,349)	(20%)	\$ 34,118,874	27%
<b>TOTAL OPERATING REVENUES</b>	<b>\$ 1,486,146</b>	<b>\$ 9,322,957</b>	<b>\$ 11,584,306</b>	<b>\$ (2,261,349)</b>	<b>(20%)</b>	<b>\$ 34,118,874</b>	<b>27%</b>
<b>OPERATING EXPENSES</b>							
Payroll & employee benefit expenses	\$ 221,055	\$ 855,559	\$ 1,457,890	\$ 602,331	41%	\$ 4,644,900	18%
Professional fees	56,522	164,916	273,932	109,016	40%	813,000	20%
Purchased & contracted services	13,637	37,282	79,957	42,675	53%	239,871	16%
Supplies, materials & utilities	20,661	248,047	481,649	233,602	49%	3,747,401	7%
Maintenance repairs, parts & rentals	2,502	7,130	7,720	590	8%	17,160	42%
General & administration	50,766	190,116	282,832	92,716	33%	850,563	22%
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 365,142</b>	<b>\$ 1,503,050</b>	<b>\$ 2,583,981</b>	<b>\$ 1,080,930</b>	<b>42%</b>	<b>\$ 10,312,895</b>	<b>15%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES</b>							
Interest on investments	\$ 2,735	\$ 145,750	\$ 233,850	\$ (88,100)	(38%)	\$ 696,936	21%
Interest expense	(1,791,964)	(7,037,247)	(3,798,126)	(3,239,121)	85%	(14,844,597)	47%
<b>TOTAL NON-OPERATING (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (1,789,229)</b>	<b>\$ (6,891,497)</b>	<b>\$ (3,564,276)</b>	<b>\$ (3,327,221)</b>	<b>93%</b>	<b>\$ (14,147,661)</b>	<b>49%</b>
<b>NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (668,225)</b>	<b>\$ 928,410</b>	<b>\$ 5,436,049</b>	<b>\$ (4,507,639)</b>	<b>(83%)</b>	<b>\$ 9,658,318</b>	<b>10%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES (NOT BUDGETED)</b>							
Depreciation	\$ (22,628)	\$ (90,356)	\$ -	\$ (90,356)	100%	\$ -	0%
Amortized debt issuance expense	-	-	-	-	0%	-	0%
<b>TOTAL NON-OPERATING (NOT BUDGETED)</b>	<b>\$ (22,628)</b>	<b>\$ (90,356)</b>	<b>\$ -</b>	<b>\$ (90,356)</b>	<b>100%</b>	<b>\$ -</b>	<b>0%</b>
<b>NET INCOME (LOSS) (BUDGETED AND NOT BUDGETED)</b>	<b>\$ (690,853)</b>	<b>\$ 838,054</b>	<b>\$ 5,436,049</b>	<b>\$ (4,597,995)</b>	<b>(85%)</b>	<b>\$ 9,658,318</b>	<b>9%</b>

## Exhibit 8-2 (con't)

### GRP Division

#### Clarification of Actual & Budget Variances

Category	YTD - Driver	December 2013	FYTD 2014
GRP Pumping Fees	Usage variance due to weather conditions.	(475)	(2,261)
Payroll and related expenses	Budgeted positions not filled as scheduled	143	602
Professional Fees	Professional fees less than budgeted.	11	109
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	7	43
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Travel, fuel, office supplies, phones, utilities, recruiting and misc. expenses less than budgeted.	23	75
	Additional Water Supply	-	157
	Maintenance repairs, parts & rentals expense less than budgeted.	(1)	1
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	20	93
Non-Operating	Interest/Investment Income	(56)	(88)
	Depreciation expense	(22)	(90)
	Bond Issuance Cost Amort expense	-	-
	Bond interest expense	(726)	(3,239)
		<u>(1,076)</u>	<u>(4,598)</u>



## Exhibit 9

### GRP Program Monthly Meeting Log For November and December 2013

Meeting	Subject of Meeting	Location	Date	Participants
RFP 13-067 Fiber Optics Network Communication System	RFP 13-067	G&A Building	11/5/2013	SJRA Staff, GRP Program Team and Potential Offerors
Surface Water Facilities Operations and Maintenance Coordination Meeting	SWF	GRP Building	11/7/2013	GRP Program Team
RFP 13-035 Segment W3B Proposed 12", 16", 18", ad 20" Water Transmission Line	RFP 13-035	G&A Building	11/8/2013	SJRA Staff, GRP Program Team and Potential Offerors
RFP 13-045 Proposal Opening - Standpipe	RFP 13-045	G&A Building	11/8/2013	SJRA Staff, GRP Program Team and Potential Offerors
Conroe City Council Meeting	GRP Presentation to Conroe City Council	City of Conroe City Hall	11/13/2013	SJRA Staff and General Public
White Oak Ranch HOA Meeting	GRP Presentation to White Oak Ranch HOA	GRP Building	11/14/2013	SJRA Staff and General Public
Segment C1A Pre-Construction Conference	Segment C1A	GRP Building	11/18/2013	SJRA Staff, GRP Program Team and Consultant Team
Segment C1B Pre-Construction Conference	Segment C1B	GRP Building	11/18/2013	SJRA Staff, GRP Program Team and Consultant Tem
Segment C3 Pre-Construction Conference	Segment C1A	GRP Building	11/19/2013	SJRA Staff, GRP Program Team and Consultant Team
Construction Communication Team Meeting	GRP	G&A Building	11/19/2013	GRP Review Committee, SJRA Staff and General Public
The Woodlands Township Board Meeting	GRP Presentation to The Woodlands Township	Township Offices	11/27/2013	SJRA Staff and General Public





## Exhibit 9 (con't)

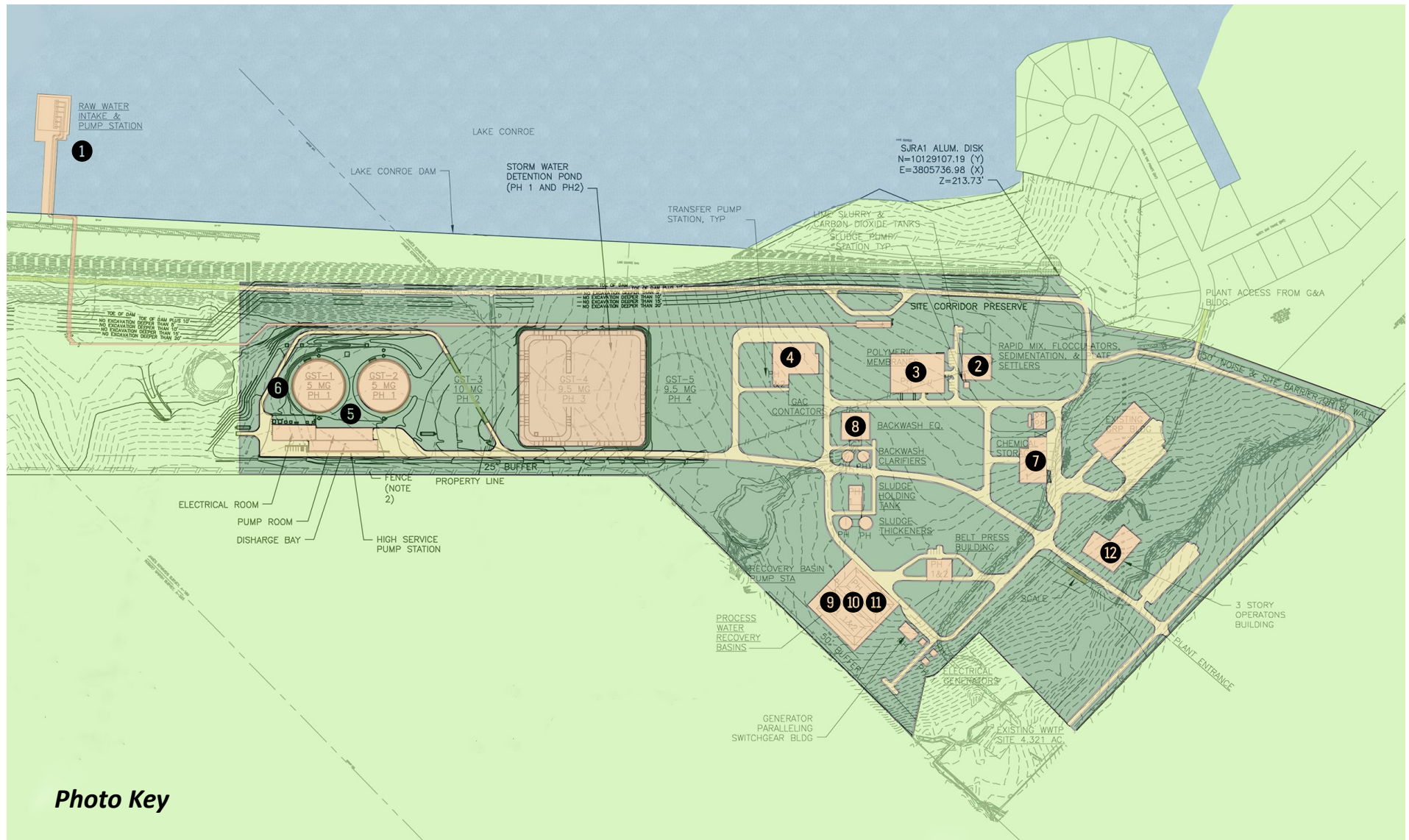
### GRP Program Monthly Meeting Log For November and December 2013

Meeting	Subject of Meeting	Location	Date	Participants
GRP Review Committee Meeting	Board Agenda Items	G&A Building	12/9/2013	GRP Review Committee, SJRA Staff and General Public
SJRA Board of Directors Meeting	Board Agenda Items	G&A Building	12/12/2013	SJRA Board of Directors, SJRA Staff and General Public
CMAR Coordination Meeting	CMAR	GRP Building	Weekly	SJRA Staff, GRP Program Team and Consultants
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, Andrews Kurth	Weekly	Andrews Kurth and SJRA Staff
Water Receiving Facilities-South Progress Meeting	WRF-N	GRP Building	Weekly	SJRA Staff, GRP Program Team and Consultant Team
Segments W2A and W2B Progress Meetings	Segments W2A and W2B	GRP Building	Weekly	SJRA Staff, GRP Program Team and Consultant Team
Segments W1A and W1B Progress Meetings	Segments W1A and W1B	GRP Building	Monthly	SJRA Staff, GRP Program Team and Consultant Team
Segments T1, T2 and T3 Progress Meetings	Segments T1, T2 and T3	GRP Building	Monthly	SJRA Staff, GRP Program Team and Consultant Team
Segments W3, W4, C1, C2 and C3 Monthly Status Meetings	Segments W3, W4, C1, C2 and C3	GRP Building	Monthly	SJRA Staff, GRP Program Team and Consultant Team
Surface Water Facility Progress Meeting	Surface Water Facilities	GRP Building	Bi-Monthly	SJRA Staff, CMAR, CA&I and Consultant Team

## Surface Water Facilities Construction Photos



## EXHIBIT 10 SWF Construction Photos





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



① Interior view of masonry installation at Raw Water Intake and Pump Station



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



② *Aerial view of intermediate concrete walls at the Pretreatment Facilities*



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



③ *Aerial view of masonry installation at Membrane Building*



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



④ Interior View of GAC pipe gallery



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



⑤ *Aerial view of Ground Storage Tanks and High Service Pump Station*



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



⑥ *Aerial View of Blower Building foundation*



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



⑦ *Aerial view of masonry installation at Chemical Facilities*



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



⑧ *Concrete walls complete, walkways under construction at Backwash Equalization Basin*



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



9 Aerial view of Dewatering Building foundation



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



⑩ Aerial view of concrete wall placement at thickeners



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



⑪ *Aerial view of water recovery basins and pump station foundations*



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



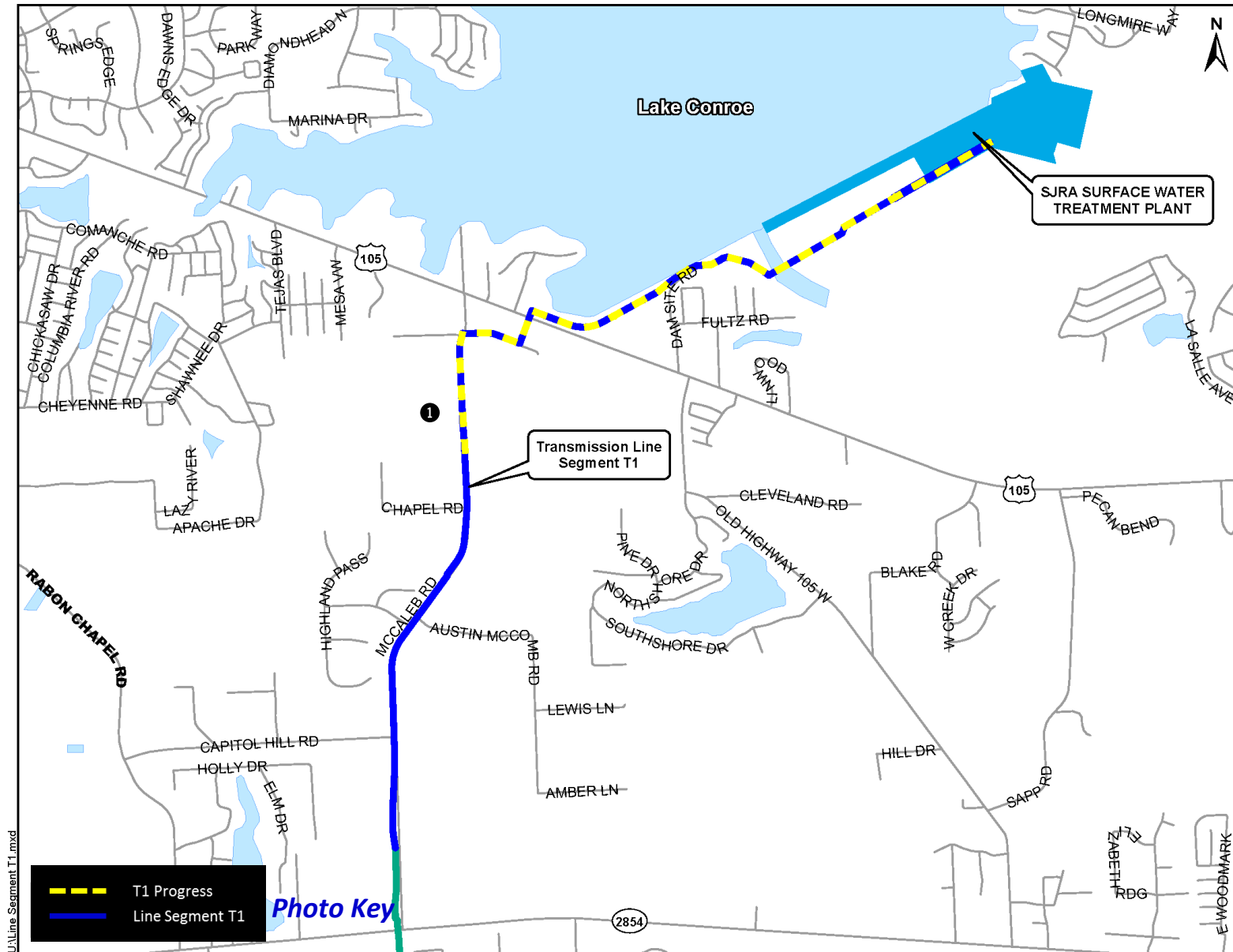
⑫ Aerial view of Operations Building foundation

## Transmission Line System Construction Photos





## EXHIBIT 11 Transmission Line System Construction Photos

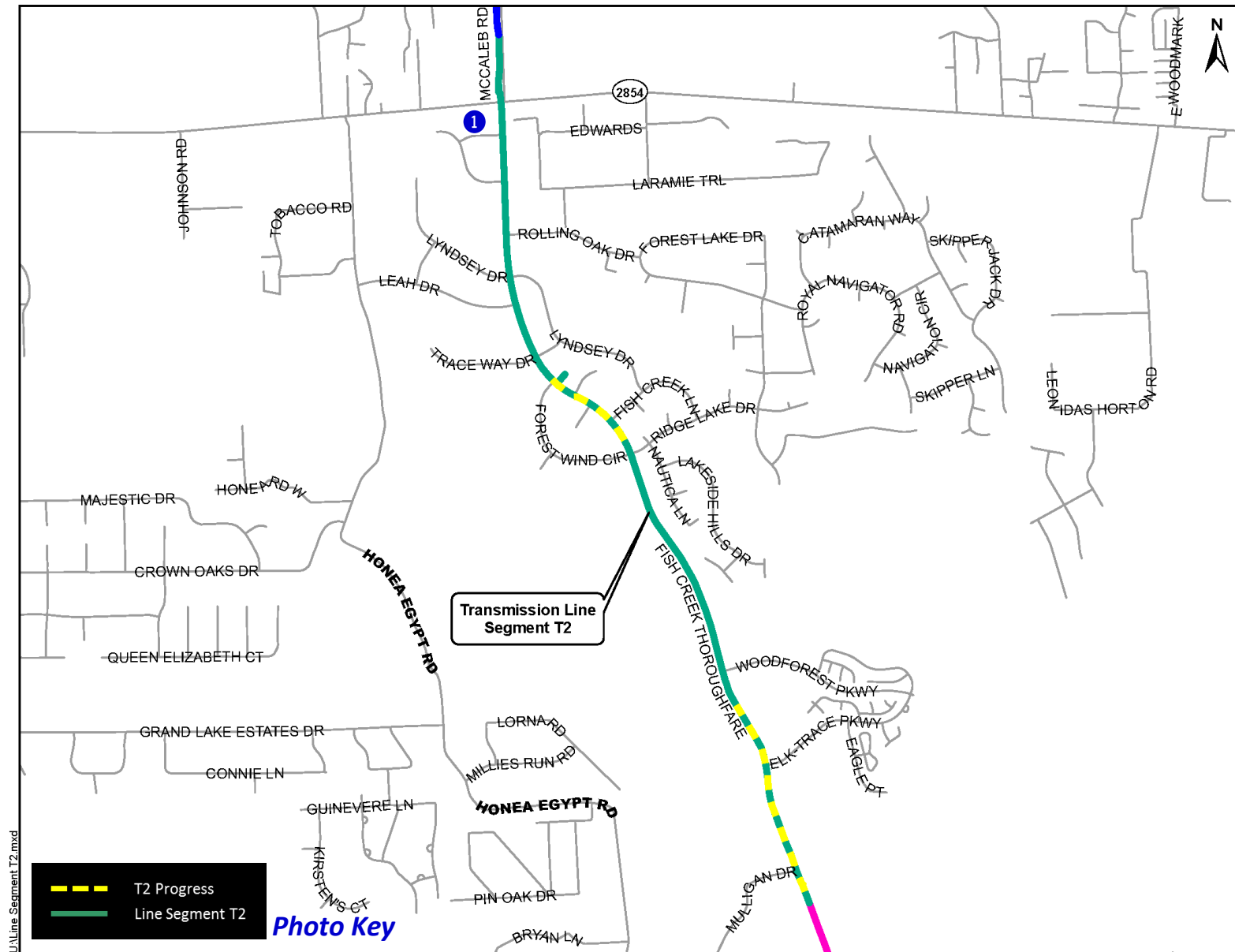


## EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ Segment T1 - 60-inch pipe installation along McCaleb Road

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





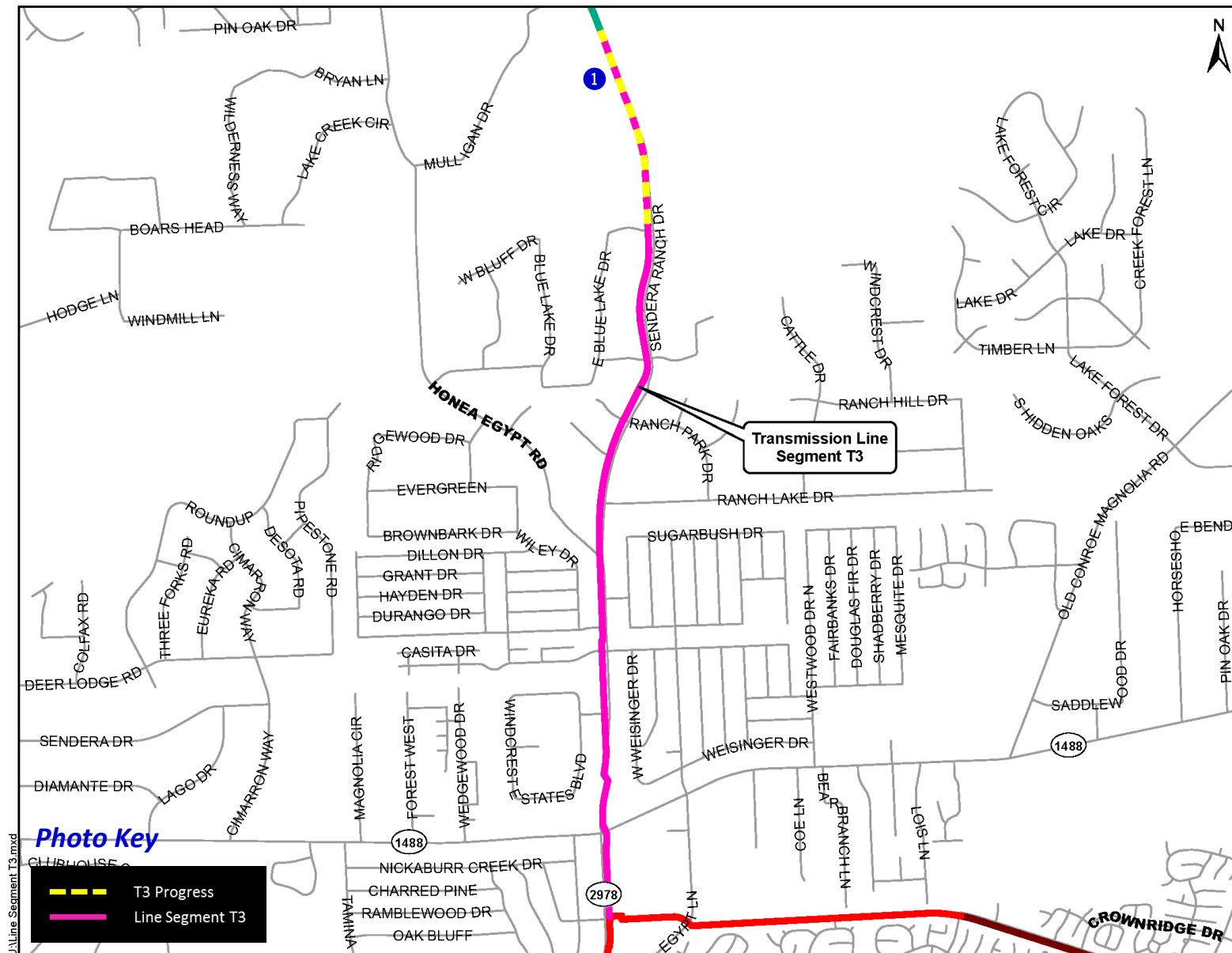
## EXHIBIT 11 (con't) Transmission Line System Construction Photos



① Segment T2 - Tunnel operation along Fish Creek Thoroughfare near FM 2854



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

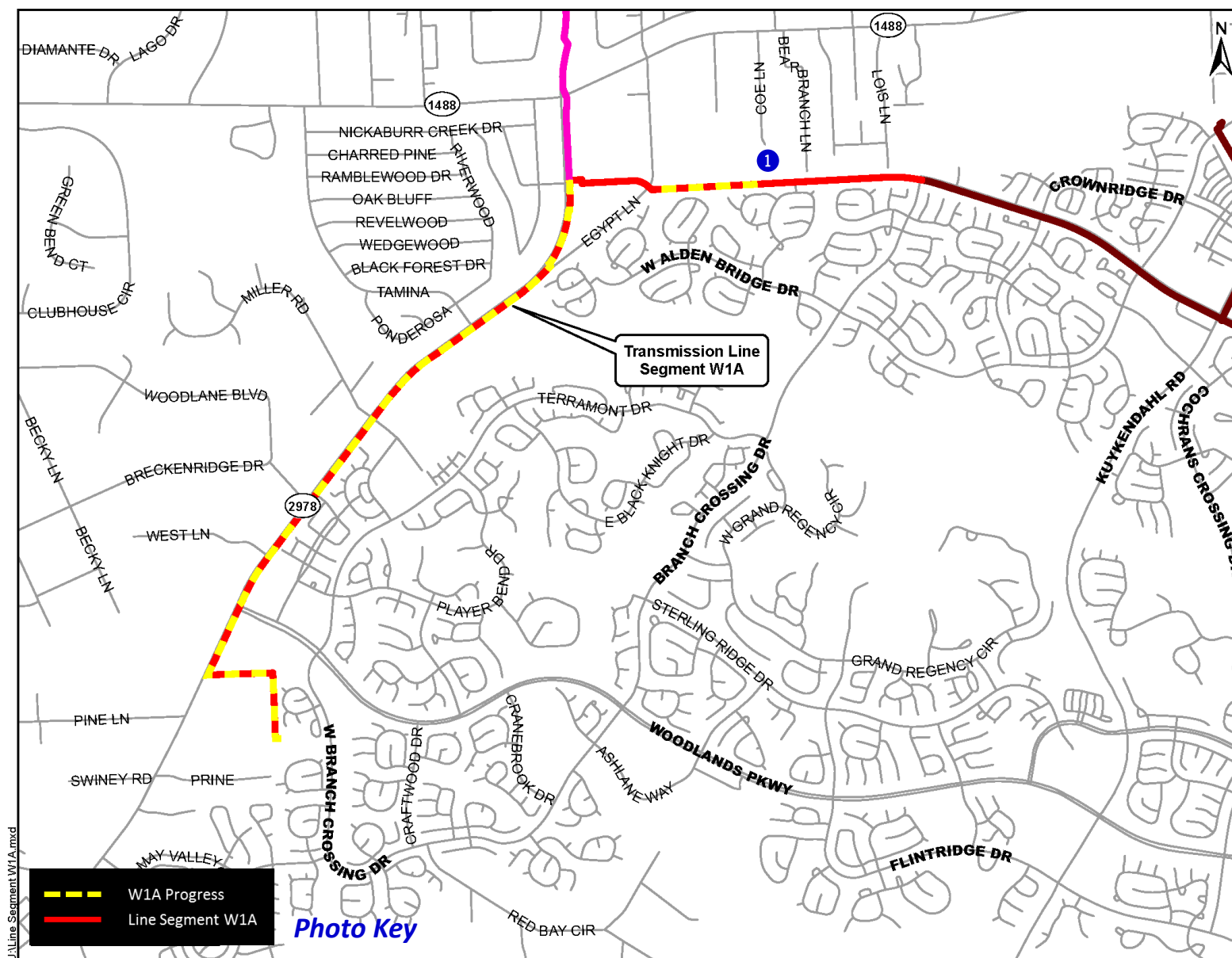


## EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ Segment T3—54-inch pipe installation along Fish Creek Thoroughfare near Lake Creek

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



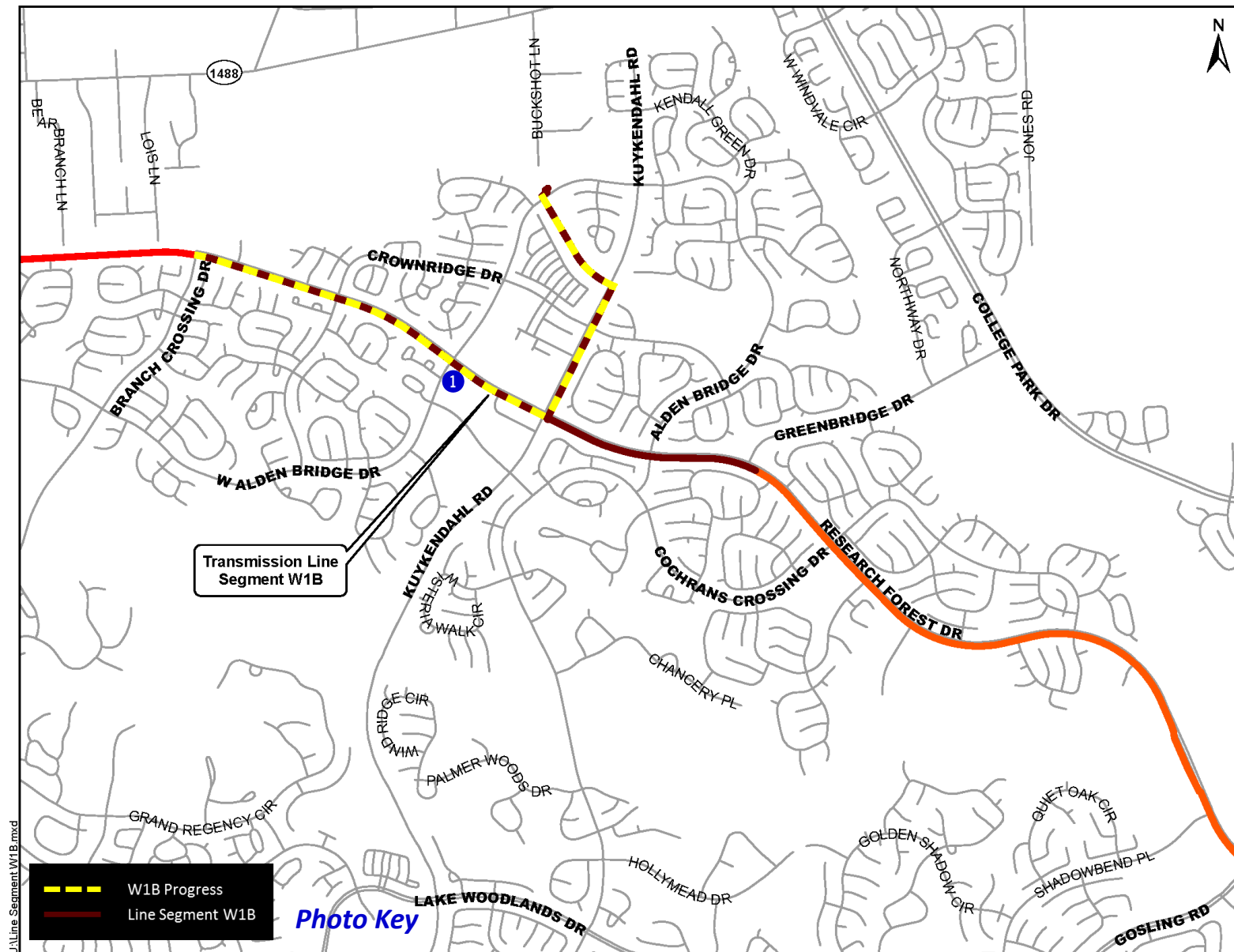


## EXHIBIT 11 (con't) Transmission Line System Construction Photos



① Segment W1A—48-inch pipe and butterfly valve installation along future Research Forest Drive

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





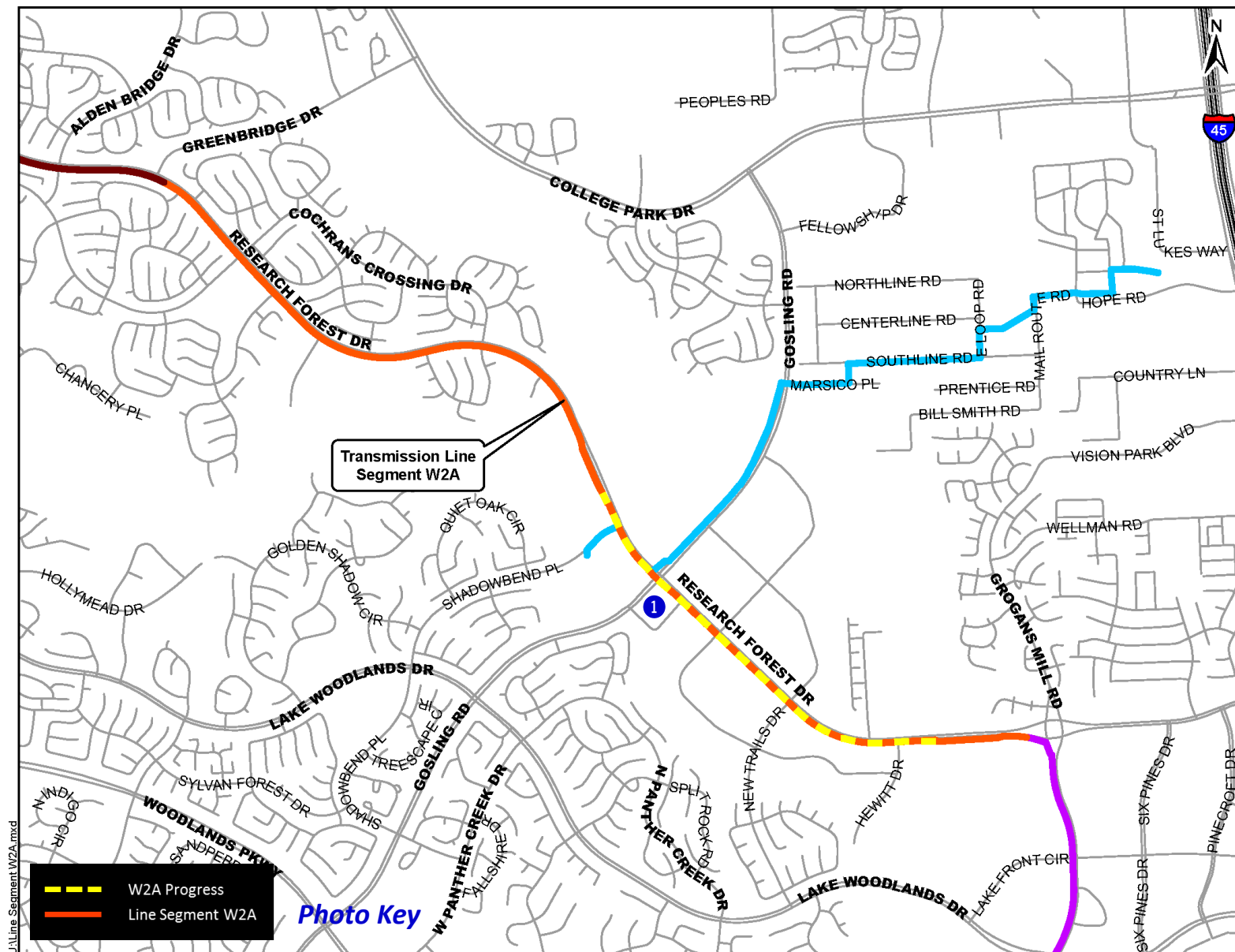
## EXHIBIT 11 (con't) Transmission Line System Construction Photos



❶ *Segment W1B - Fiber optic conduit installation along Research Forest Drive near Alden Bridge Drive*



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



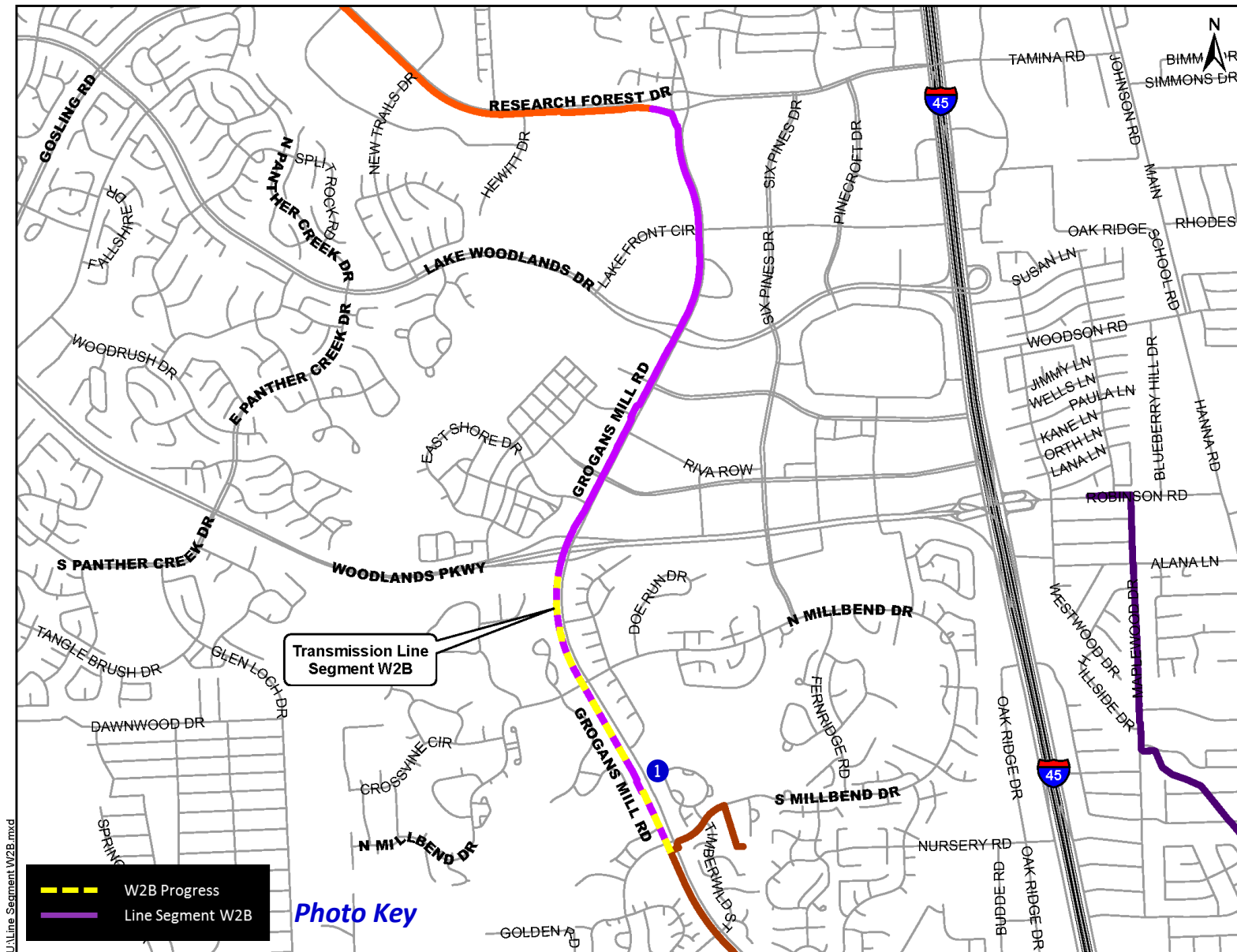
## EXHIBIT 11 (con't) Transmission Line System Construction Photos



① *Segment W2A - Roadway paving operation along Research Forest Drive near Gosling Road*



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



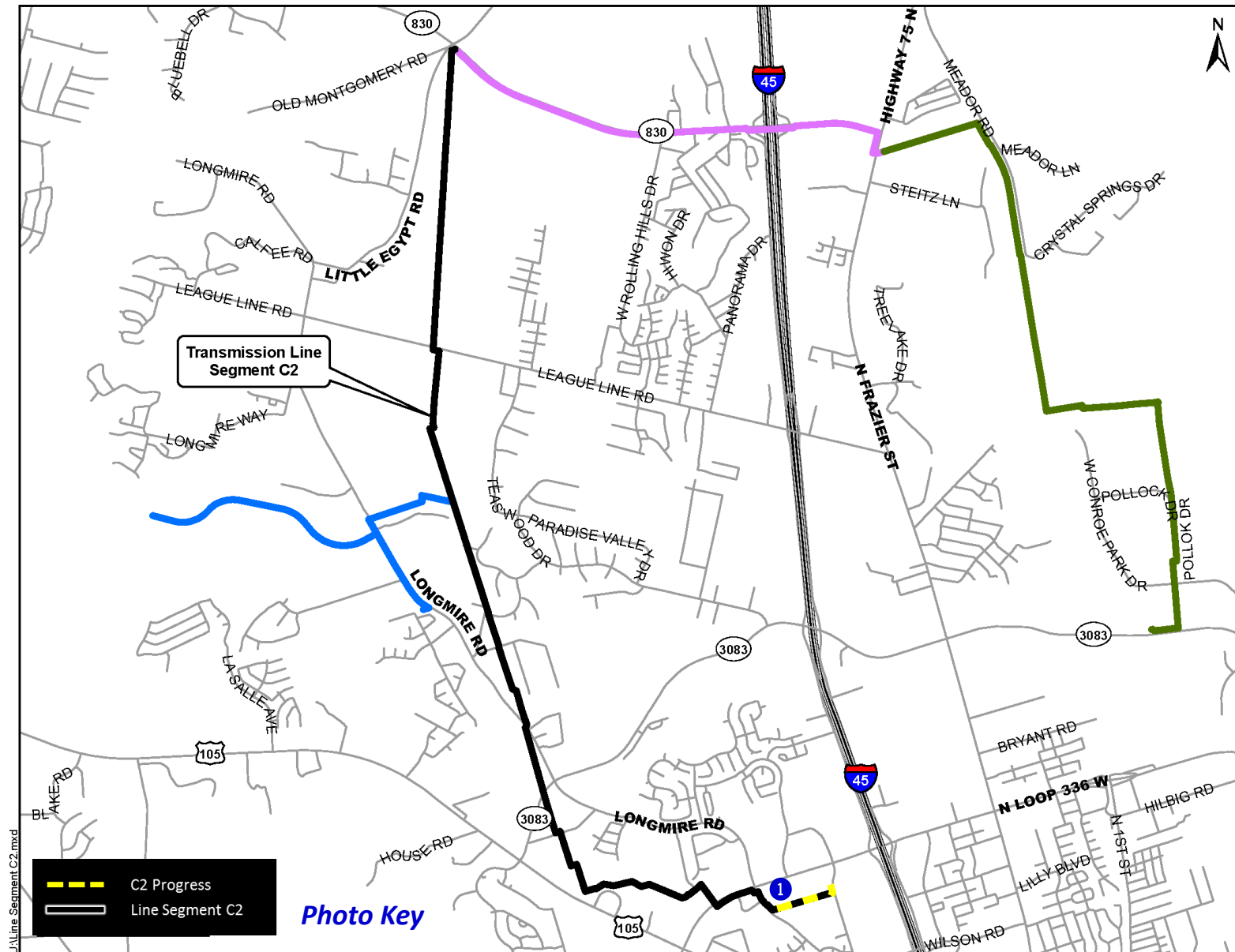


## EXHIBIT 11 (con't) Transmission Line System Construction Photos



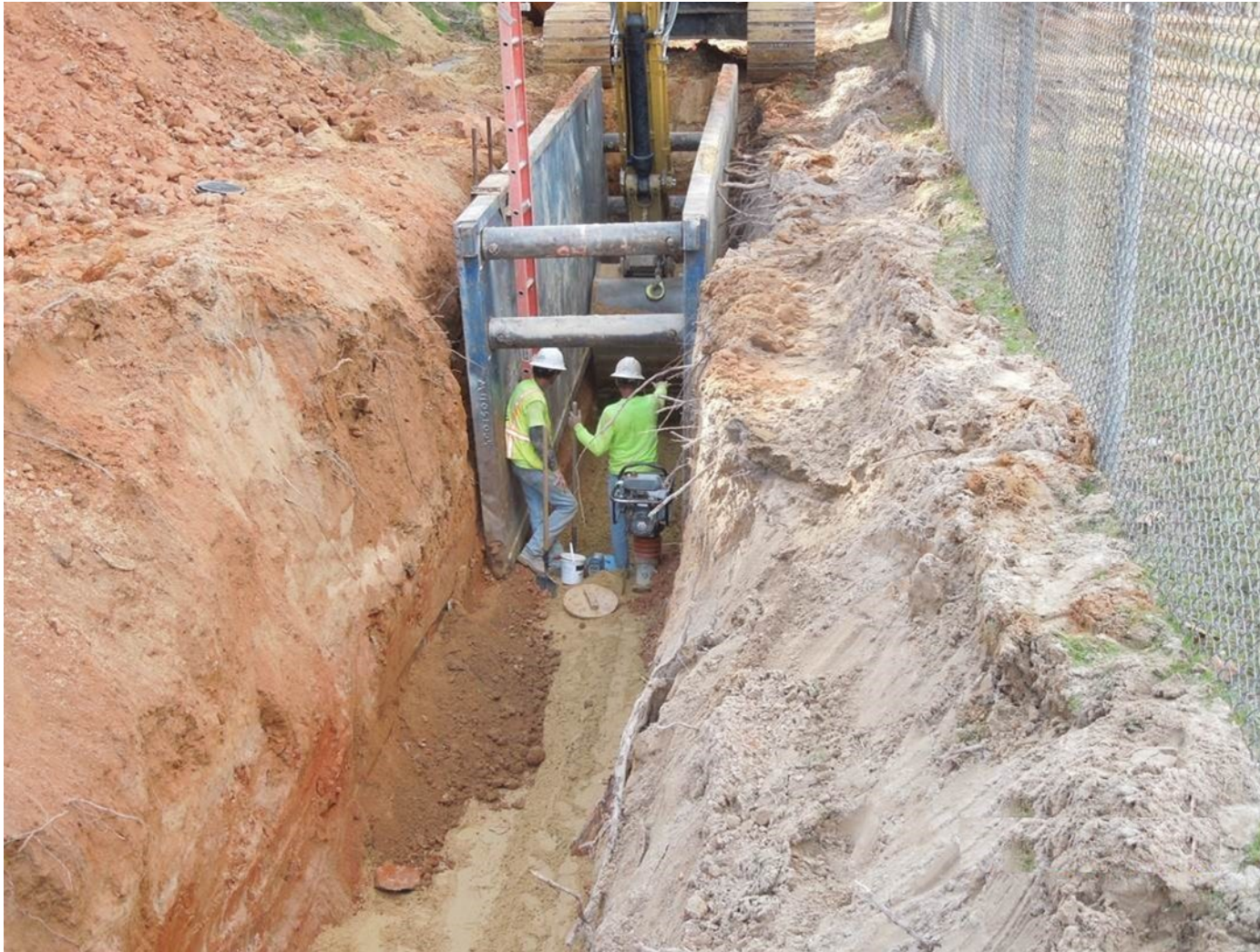
❶ Segment W2B - 30-inch pipe installation along Grogan's Mill Road

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





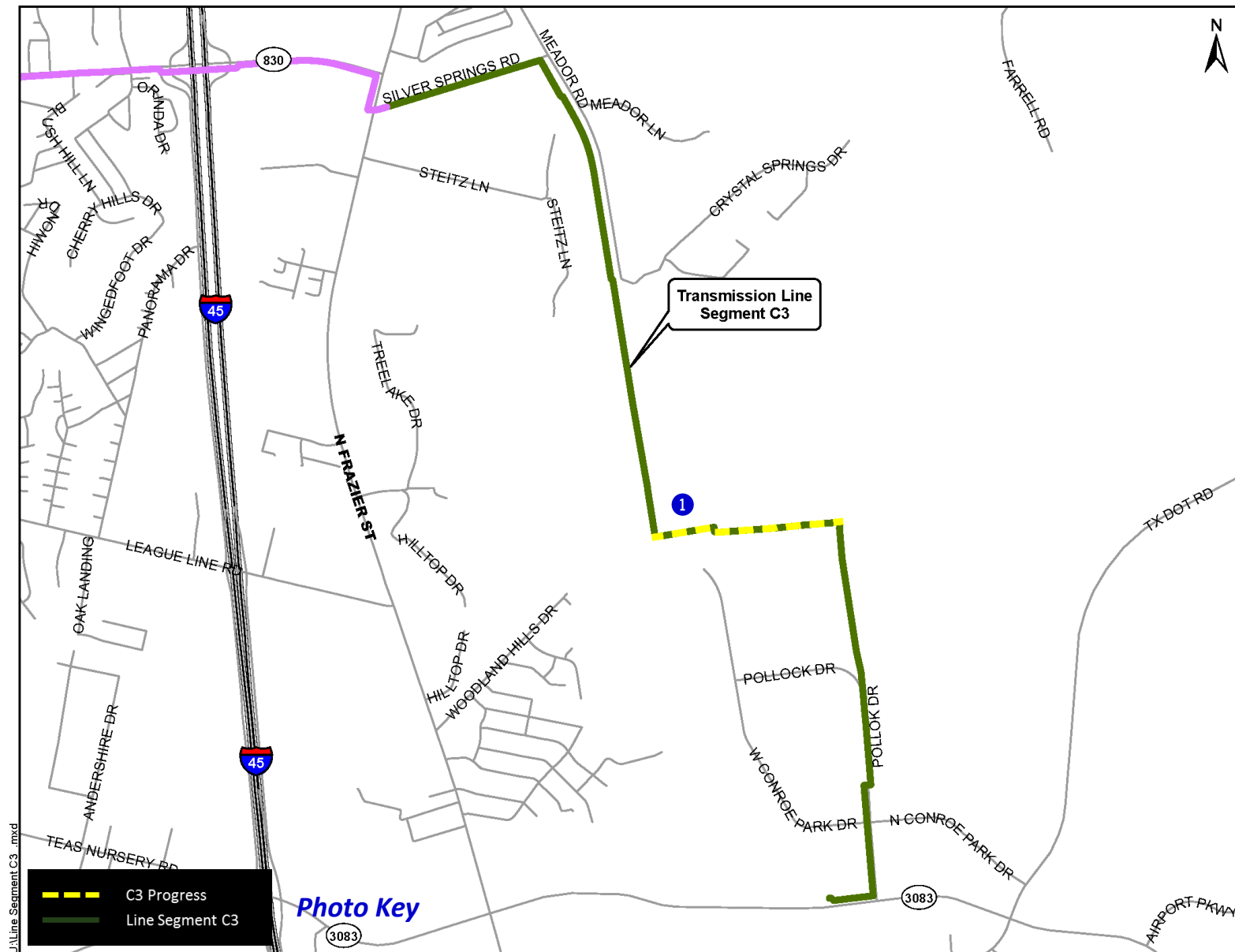
## EXHIBIT 11 (con't) Transmission Line System Construction Photos



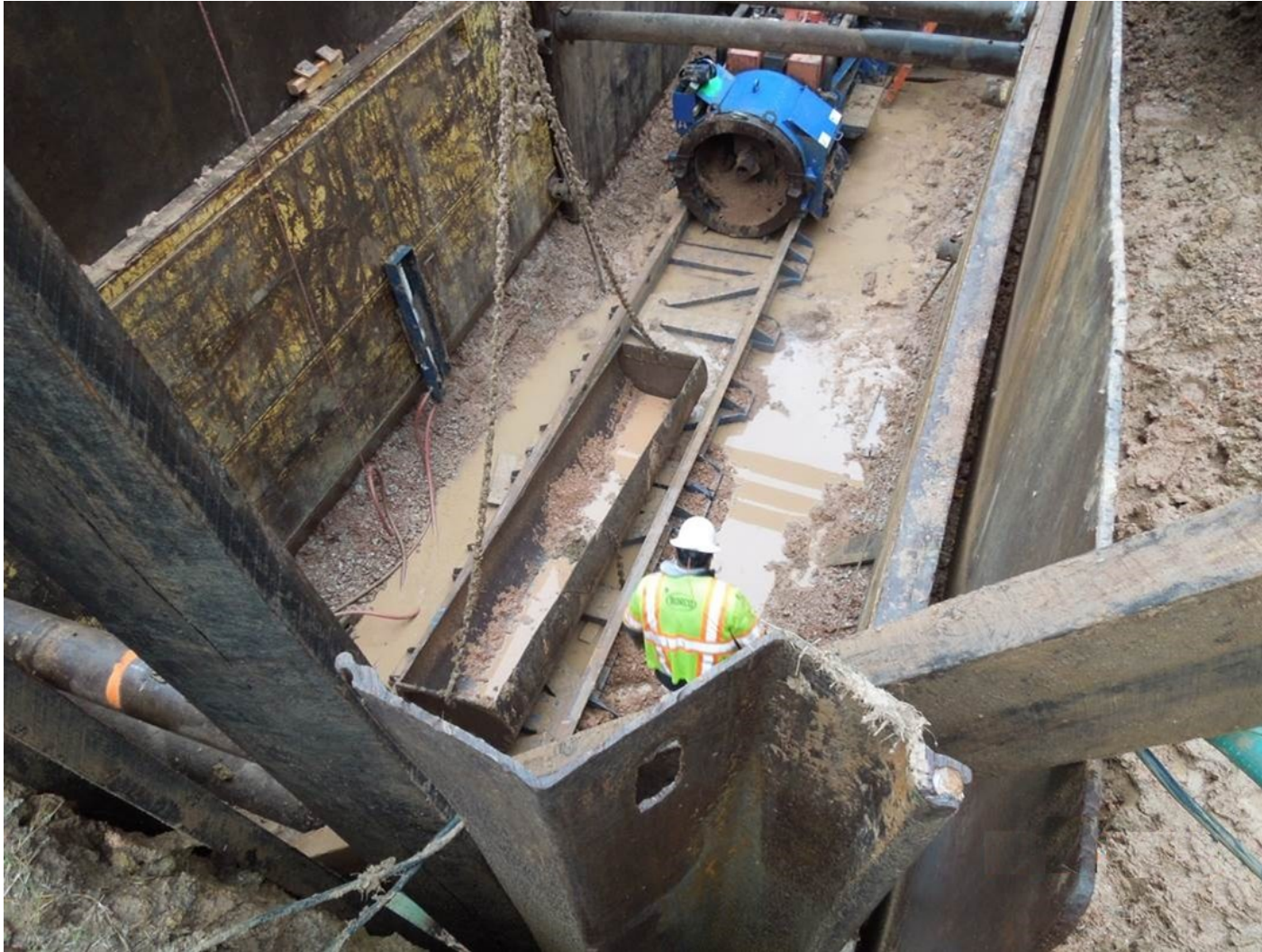
❶ *Segment C2—12-inch pipe installation near O.A. Reaves Elementary School*



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



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

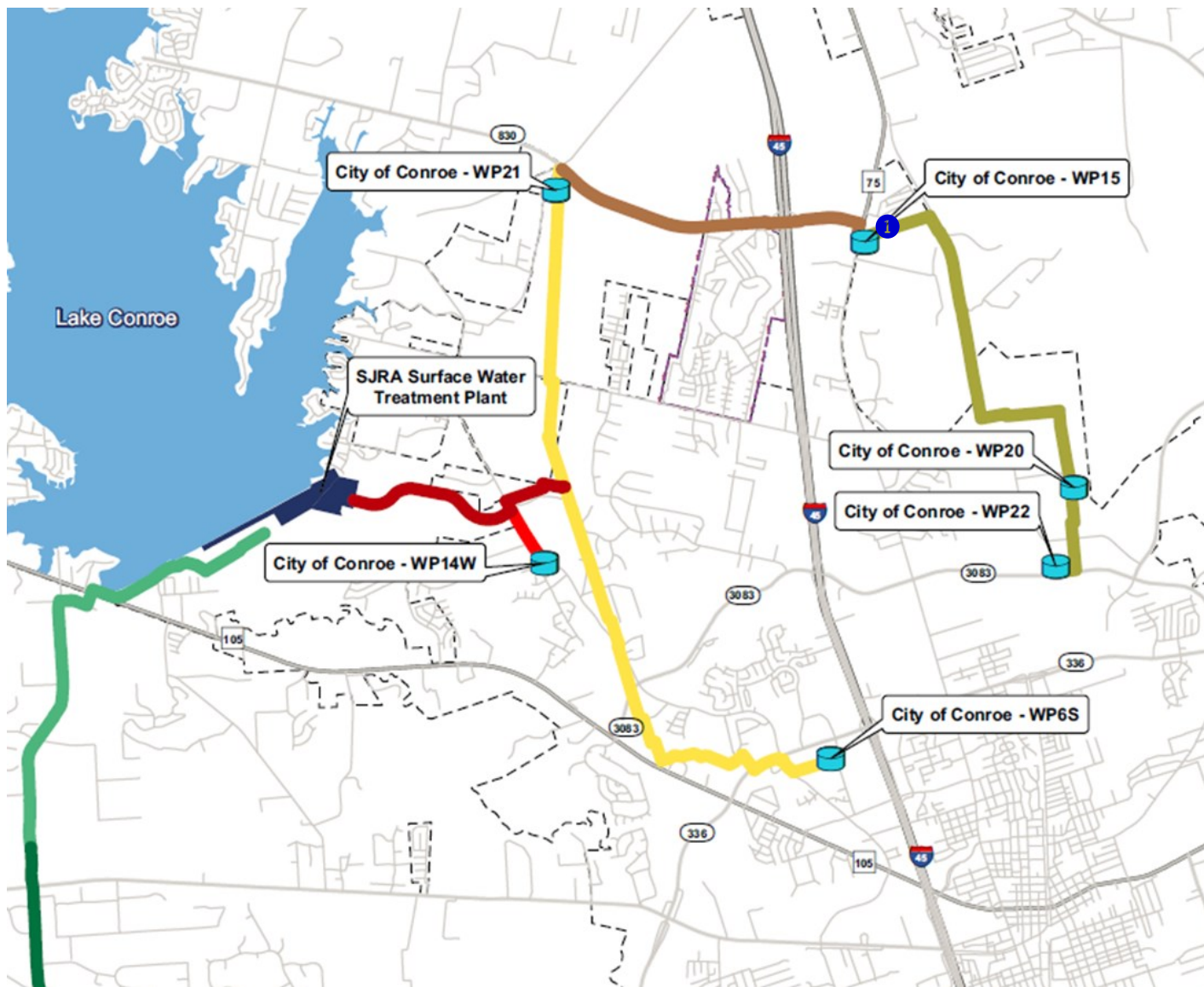


① Segment C3—20-inch trenchless pipe installation along Tom Stinson Drive



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

### WATER RECEIVING FACILITIES—NORTH





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

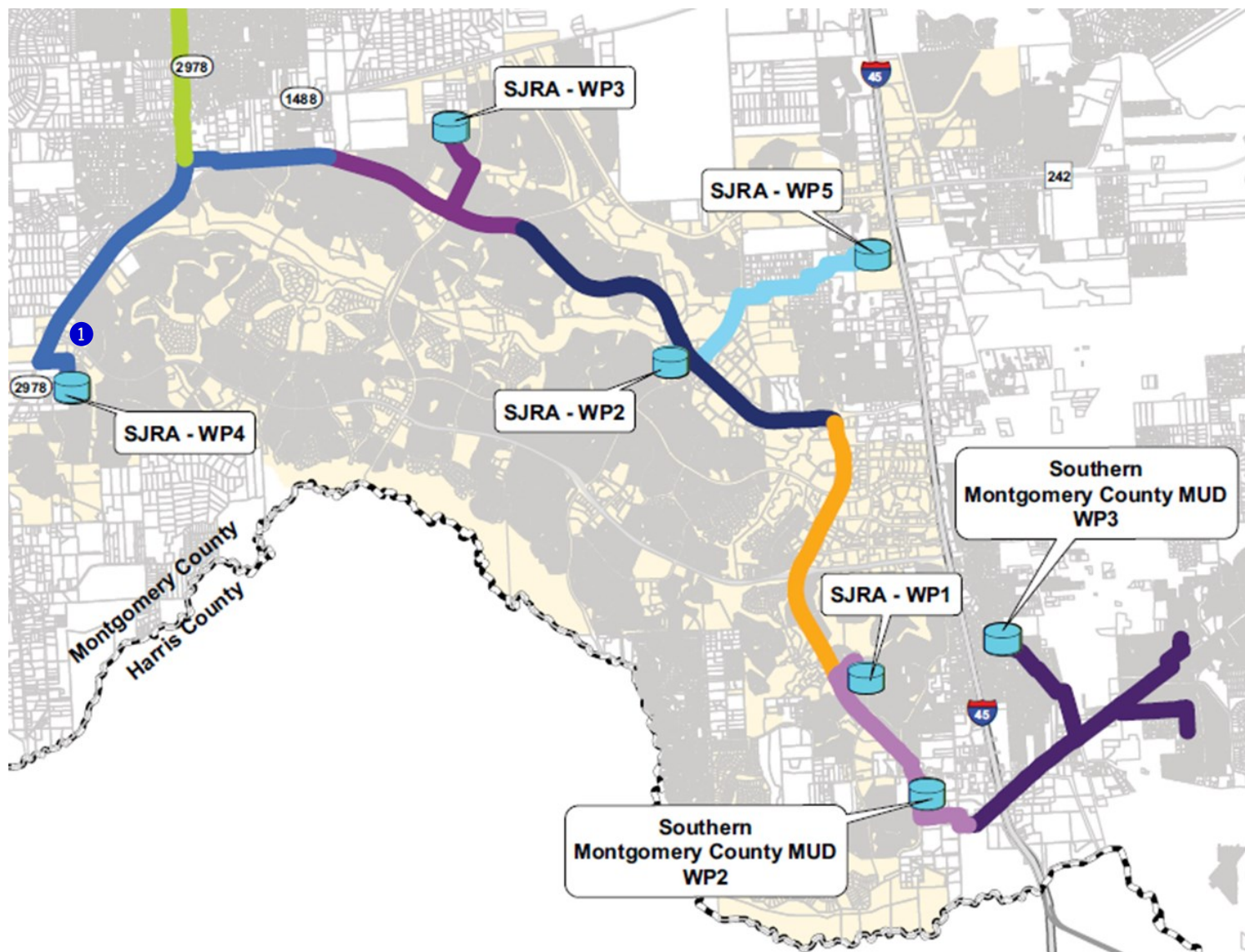


❶ *Water Receiving Facilities—North— Tree clearing at City of Conroe Water Plant No. 15*



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

### WATER RECEIVING FACILITIES—SOUTH





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



❶ *Water Receiving Facilities—South—Stormwater pipe installation at SJRA Water Plant No. 4*