



# GROUNDWATER REDUCTION PLAN PROGRAM

MONTHLY PROGRESS REPORT - OCTOBER 2014





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# ACRONYMS AND DEFINITIONS

## ACRONYMS

CA&I	Construction Administration and Inspection
CCT	Construction Communication Team
CIP	Capital Improvement Project
CM&I	Construction Management and Inspection
CMAR	Construction Manager At Risk
CMT	Construction Materials Testing
CSB / P	Competitive Sealed Bid / Proposal
EA	Environmental Assessment
EAC	Estimate At Completion
FONCS	Fiber Optics Network Communication System
GIS	Geographic Information System
GRP	Groundwater Reduction Plan
GST	Groundwater Storage Tank
HSPS	High Speed Pump Station
LSGCD	Lone Star Groundwater Conservation District
LVGU	Large Volume Groundwater User
NTP	Notice To Proceed
PER	Preliminary Engineering Report
PMP	Program Management Plan
PVC	Polyvinyl Chloride
PSA	Professional Services Agreement
QA	Quality Assurance
RCCP	Reinforced Concrete Cylinder Pipe
RFB / Q / P	Request For Bids / Qualifications / Proposals
RWI / RWPS	Raw Water Intake / Raw Water Pump Station
SJRA	San Jacinto River Authority
SOQ	Statement of Qualifications
SWF	Surface Water Facilities (SWTP, HSPH and RWI)
SWRF	Surface Water Receiving Facilities
SWTP	Surface Water Treatment Plant
TCEQ	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>GRP EXTENSION PROJECTS</b>	Safe harbor related projects not related to Phase 1, but tracked independently of Phase 1.
<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

During the month of October, the GRP Program Team worked on the process for closing out individual pipeline projects. As each section completes testing and disinfection, the pipeline ownership changes from the contractor to the SJRA's GRP Division. Those sections need to be maintained until the entire system is completed and ready to be placed in service.

### 1.2 ENGINEERING AND CONSTRUCTION

All procurement services for construction proposals for Phase I, with the exception of the permanent access road and Segment W3D, have been completed and fifteen transmission line construction contracts have been awarded. The engineering consultants will continue to provide construction phase services by reviewing submittals and requests for information as work proceeds.

### 1.3 MEETINGS

Various meetings continued this month with the GRP Program Team. A listing of these meetings is attached as *Exhibit 9*.



*Electrical and Fiber Optic Manholes*

## **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**

**Segments T1, T2, T3, W1A, W1B, W2A, W2B, W3A, W3B, W4, C1A, C1B, C2, C3, C4, Surface Water Receiving Facilities—North, Surface Water Receiving Facilities—South, Standpipe, and Fiber Optic Communications System** – Design is complete. Engineering consultants are providing construction phase services.

**Segment W3D** - Segment W3D includes approximately 6,200 linear feet of 16-inch and 12-inch waterline and 3-inch fiber optic conduit along Maplewood Drive and Robinson Road between Southern Montgomery County MUD Plant No. 3 and the City of Oak Ridge North Plant. 100% design was completed. Segment was advertised in October and anticipate awarding the construction contract in December.

**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, W3A, W3B, W4, C1A, C1B, C2, C3, C4, WRF-N, WRF-S, and the Standpipe.

**Construction Materials Testing Consultant (CMT)** - CMT consultant is currently working with CM&I staff to perform industry standard construction materials testing. Testing includes subgrade and backfill soil densities, compressive strengths, masonry, and coatings.

#### **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.

**Permanent Access Road** - 60% design review was completed and comments were provided to the consultant in August. Anticipate 90% submittal in November.

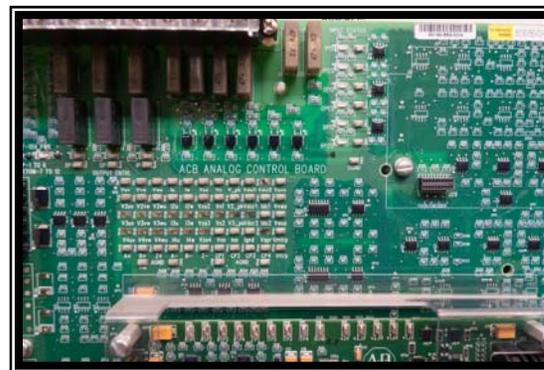
**Construction Administration and Inspection (CA&I)** – The CA&I consultant for the SWF is currently working with the CMAR and SJRA staff to review submittals and RFI's, and provide constant field monitoring and inspection of the systems being installed.

**Construction Materials Testing Consultant (CMT)** - The CMT consultant 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; and 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 and is providing construction phase services.

### **2.2 STATE AGENCY COORDINATION**

The Texas Water Development Board (TWDB) completed the field inspection of the Surface Water Facilities construction site on October 29, 2014. The next TWDB site inspection visits are tentatively scheduled for late November, 2014. TWDB reviewed and approved plans and specifications for Segment W3D and issued an approval letter on October 15, 2014. SJRA forwarded to TWDB Change Order (CO) No. 2 for Segment W4, CO No. 2 for Segment W1A, CO No. 1 for Segment W1B, CO No. 2 for Segment W2A, and CO No. 1 for Segment W2B for review and approval in October.



*Circuit board for pumps at High Service Pump Station*

## 2.0 PROJECT ACTIVITIES (CONTINUED)

### 2.3 SURFACE WATER TRANSMISSION SYSTEM PROJECT DATA

The month of October concluded with the installation of approximately 240,512 feet or 45.6 miles of various sized concrete coated steel pipe, PVC pipe, and bar wrapped concrete mortar pipe along the majority of the transmission line segments. This represents approximately 89% of the total planned pipe to be installed throughout Montgomery County by or before January 1, 2016. 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 (SWRF-N), Surface Water Transmission South Water Receiving Facilities (SWRF-S), Standpipe and Fiber Optics Network Communication System (FONCS) thus far.

*Transmission piping at High Service Pump Station*



Surface Water Transmission System Total		Progress To Date
Total Contracted Amount		\$149,001,350.29
Total Invoiced To Date		\$123,839,431.55
Total % Complete Based on Invoice Amount		83%

Segment	T1	T2	T3	SWRF-S	FONCS
Contracted Amount	\$14,521,937.14	\$13,475,718.33	\$11,393,193.97	\$7,127,383.00	\$2,885,432.35
Invoiced To Date	\$14,097,492.64	\$12,637,847.23	\$7,606,940.38	\$5,646,564.45	\$1,153,284.27
% Complete	97%	94%	67%	79%	40%



## 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	\$7,313,062.46	\$6,669,104.98	\$14,542,306.75	\$14,724,032.00	\$6,267,041.38	\$4,907,805.67	\$3,170,281.77
% Complete	89%	92%	89%	91%	80%	60%	87%



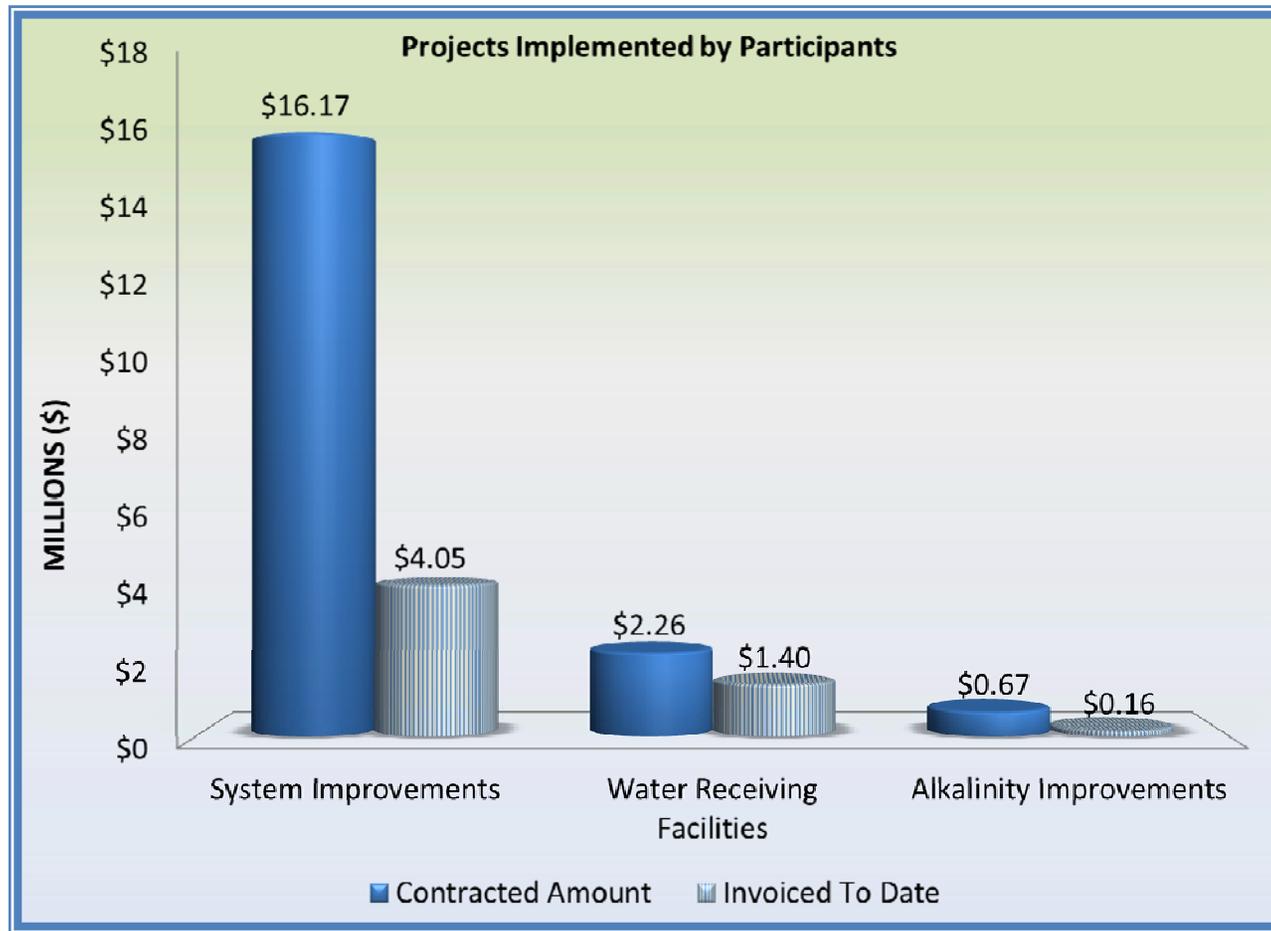
## 2.0 PROJECT ACTIVITIES (CONTINUED)



Segment	C1A	C1B	C2	C3	C4	SWRF-N	STANDPIPE
Contracted Amount	\$3,837,683.40	\$544,393.60	\$9,014,837.00	\$4,972,314.80	\$5,115,396.90	\$6,160,184.55	\$2,354,175.00
Invoiced To Date	\$3,482,666.22	\$544,939.60	\$5,898,089.57	\$4,520,059.86	\$3,396,434.45	\$5,491,301.11	\$1,750,722.76
% Complete	91%	100%	65%	91%	66%	89%	74%



## 2.0 PROJECT ACTIVITIES (CONTINUED)



Project	System Improvements	Water Receiving Facilities	Alkalinity Improvements
Contracted Amount	\$16,165,558.70	\$2,259,088.00	\$674,997.00
Invoiced To Date	\$4,053,473.41	\$1,395,551.91	\$164,669.00
% Complete	25%	62%	24%



## 2.0 PROJECT ACTIVITIES (CONTINUED)

### 2.4 SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

Significant progress continues to be made each month with regard to pipe installation on each of the fifteen Surface Water Transmission Line Segments. The chart below represents the overall pipe installation statistics through the month of October.

Transmission Line System Pipe Installation Statistics to Date	
Total Piping Installed to Date	45.6 miles
Total % of Pipe Installed to Date	89%

**Segment T1** - Contractor continued the disinfection process for the 60-inch concrete coated steel pipe. Contractor completed the fence installation at the day care center along Lake Business Drive and at various residents along McCaleb Road. Continued site restoration within the SJRA Campus, along McCaleb Road, and at the Highlands Ranch Subdivision entrance. 100% of pipe installation totaling 20,514 feet of 60-inch concrete coated steel pipe was installed and completed in May. (See Exhibit 11, Page 44)

**Segment T2** - Contractor continued hydrostatic pressure testing the 54-inch concrete coated steel pipe along Fish Creek Thoroughfare. Contractor addressed site restoration and erosion control measures along Fish Creek Thoroughfare. 100% of pipe installation totaling 23,475 feet of 60-inch and 54-inch concrete coated steel pipe was installed and completed in May. (See Exhibit 11, Page 45)

**Segment T3** - Contractor continued tunneling operations and open-cut installation of 54-inch concrete coated steel pipe and 54-inch steel pipe and site restoration along FM 2978 near the Target Shopping Center. Contractor completed the Aqua Texas waterline bypass at FM 1488. Approximately 14,000 feet of 54-inch concrete coated steel and steel pipe along Fish Creek Thoroughfare and FM 2978 has been installed through this month. (See Exhibit 11, Page 46)

**Segment W1A** - Contractor continued hydrostatic testing the 54-inch steel, 48-inch concrete coated steel, and 16-inch PVC pipe. Contractor completed the asphalt shoulder repair and the ditch lines along Research Forest and FM 2978. 100% of pipe installation totaling 23,064 feet of 54-inch steel pipe,

48-inch concrete coated steel, and 16-inch PVC pipe was installed and completed in July. (See Exhibit 11, Page 48)

**Segment W1B** - Contractor completed the hydrostatic pressure testing of entire waterline segment and addressed the fiber optic conduit and ground box deficiencies. 100% of pipe installation totaling 17,140 feet of 48-inch and 42-inch concrete coated steel pipe and 20-inch and 16-inch PVC pipe was installed and completed in October. (See Exhibit 11, Page 49)

**Segment W2A** - Contractor continued open-cut installation of 30-inch PVC pipe on either side of the Lake Woodlands Bridge along Research Forest. Contractor continued Fiber Optic Ground Box installation, Fiber Optic Conduit testing, and cleaning of the waterline segment. Approximately 20,132 feet of 30-inch and 20-inch PVC pipe and 42-inch concrete coated steel pipe was installed through this month. (See Exhibit 11, Page 50)

**Segment W2B** - Contractor continued the site restoration at the Waterway and making the waterline connection on the south side. Contractor completed the hydrostatic testing of the entire waterline segment, and continues to test the fiber optic conduit and ground boxes. 100% of pipe installation totaling 14,042 feet of 30-inch PVC pipe was installed and completed in October. (See Exhibit 11, Page 52)

**Segment W3A** - Contractor completed trenchless and open-cut installation of 20-inch PVC pipe along South Park Drive and Westridge Drive to Budde Road and the 24-inch PVC pipe trenchless installation along South Millbend to SJRA WP No. 1. Contractor continues concrete pavement installation along Grogans Mill Road between Blue Fox and Grogans Park Drive. Approximately 11,994 feet of 24-inch, 20-inch, and 12-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 53)

**Segment W3B** - Contractor completed all of the 16-inch PVC pipe installation along Montgomery County Drainage District No. 6 from Hanna Road to Southern Montgomery County MUD Water Plant No. 6. Began to install 18-inch PVC pipe along the drainage ditch from Robinson Road to Rayford Road MUD Water Plant No. 1 and installation of the 20-inch PVC pipe from Forestburg Court to UPRR. Approximately 14,880 feet of 20-inch, 18-inch, 16-inch, and 12-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 55)



## 2.0 PROJECT ACTIVITIES (CONTINUED)

**Segment W4** - Contractor continued hydrostatic testing the 24-inch and 20-inch PVC pipe from SJRA Water Plant No. 2 to Southline Road. Approximately 13,103 feet of 24-inch and 20-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 57)

**Segment C1A** - Contractor completed the hydrostatic testing of the 42-inch bar wrapped concrete mortar pipe and continues miscellaneous final site restoration items. 100% of pipe installation totaling 10,272 feet of 42-inch bar wrapped concrete mortar pipe was completed in August. (See Exhibit 11, Page 58)

**Segment C1B** - Completed. (See Exhibit 11, Page 59)

**Segment C2** - Contractor continued installation of 36-inch bar wrapped concrete mortar pipe valves and appurtenances along Entergy easement and completed the 24-inch PVC pipe installation for the Segment C4 tie-in. Approximately 21,847 feet of 36-inch bar wrapped concrete mortar pipe; 30-inch concrete coated steel pipe; and 24-inch, 16-inch, and 12-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 60)

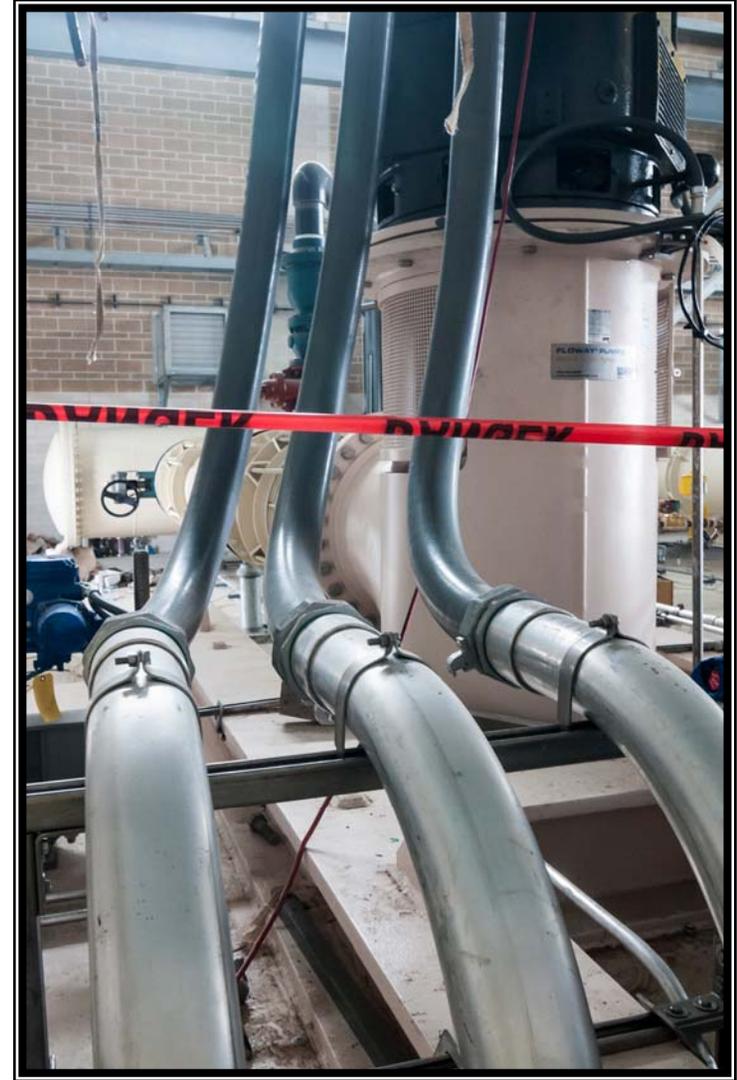
**Segment C3** - Contractor completed the installation of 20-inch PVC pipe on Girl Scouts property and adjacent to UPRR property. Fiber optic conduit, flushing hydrants, and valve installation began on the Girl Scout Property. Contractor completed the pipe installation for the waterline segment. 100% of pipe installation totaling 22,285 feet of 20-inch and 16-inch PVC pipe was installed and completed in October. (See Exhibit 11, Page 62)

**Segment C4** - Contractor continued trenchless and open-cut installation of 24-inch PVC pipe along FM 830 near Panorama Village. Contractor began trenchless installation across the I-45 Frontage Road. Approximately 11,309 feet of 24-inch and 20-inch PVC pipe has been installed through this month. (See Exhibit 11, Page 63)

**Standpipe** - 100% of the Standpipe tank panels was installed and completed in September. Overall Standpipe construction status is approximately 71% complete. (See Exhibit 12, Page 68)

**Fiber Optic Communications System** - Contractor completed the fiber optic cable installation from SJRA Water Plant No. 4 to the intersection of Waterline Segment W1A and T3 and from Chapel Hill Road to the intersection of

Waterline Segment T1 and T2. Contractor continues coordination efforts with water transmission line contractors. Fiber Optic Communications System construction is approximately 40% complete. (See Exhibit 13, Page 70).



*Conduit to pump motor at Raw Water Pump Station*

## 2.0 PROJECT ACTIVITIES (CONTINUED)

**Ground  
Storage  
Tanks**



### **SURFACE WATER RECEIVING FACILITIES**

**Surface Water Receiving Facilities–North** - Contractor completed the Site Acceptance testing for equipment at all North Water Receiving Facilities. Contractor received and has begun addressing Substantial Completion Punchlist Items. (See Exhibit 11, Page 65)

**Surface Water Receiving Facilities—South** - Contractor continued pulling wire and installing various electrical facilities into the FPCS Building at SJRA Water Plants No. 1 and No. 5 and Southern Montgomery County MUD Water Plants No. 2 and 3. Contractor continued driveway installation at SJRA Water Plant No.'s 3, 4, and 5. Contractor continued Ground Storage Tank modifications at Southern Montgomery County MUD Water Plant No. 3. (See Exhibit 11, Page 66)

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

**Raw Water Intake** - Contractor continued to install power, lighting, instruments support, and conduit at the pump and mechanical rooms. Contractor completed the 480V switchboard installation in the Electrical Room and completed the raw water pump variable frequency devices and related appurtenances. Contractor field tested the variable frequency devices and commissioned the HVAC No. 2. Subcontractor completed the roofing installation.

**Surface Water Treatment Plant** - Construction activities continue at the Operations, Chemical, Power Supply, Generator, Pretreatment, Membrane, Backwash Equalization, Process Water Recovery Basin, Belt Filter Press Building, Blower Building, and GAC facilities. Electrical power, data, and lighting conduit installation continues at the structures. Coatings and roofing activities are still occurring on the site this month. Testing and commissioning the electrical and mechanical equipment continues at various facilities. Coatings, overhead doors, grating, and chemical pipe installation occurred at the Chemical Building. Pulled conduit, terminated medium voltage cables and devices, and commissioned HVAC No. 2 at the Power Supply Building. Process piping and valve installation and coatings continues, and installation of lighting fixtures began at the GAC. Membrane pumps, process piping, HVAC, and coatings continues at the Membrane Building. Painting, flooring system, millwork, various electrical fixtures, and plumbing fixtures continue to be installed at the Operations Building.

**High Service Pump Station** - Contractor continues installation of electrical conduit and cable support, electrical equipment, HVAC, plumbing, and coatings. Contractor continues ceiling, exterior fixtures, handrails, and the stair system. Contractor completed the hydro tank installation.

**Ground Storage Tanks** - Contractor installed pipe supports and pedestals at the Ground Storage Tanks.

**Site Work** - Large diameter yard piping, potable water piping, sanitary sewer, manholes, junction boxes, drain line, and storm sewer installation continue to progress. Electrical duct bank testing continues, and Contractor began pulling medium and high voltage to various facilities. The chart below represents Surface Water Facilities progress through the month of October.

Name of Project	Contracted Amount	Invoiced To Date	% Complete Based on Invoice Amount
Surface Water Facilities	\$190,704,740	\$151,707,353.00	79.5%

## **2.0 PROJECT ACTIVITIES (CONTINUED)**

### **2.6 FACILITY IMPROVEMENTS**

Various projects are being implemented by GRP Participants on behalf of the GRP. These include system improvements that are required due to the delivery of surface water to the Participants' water receiving facilities and improvements at their wastewater treatment plants to address differences in alkalinity of surface water based wastewater.

#### **SYSTEM IMPROVEMENTS**

**Conroe Water Distribution** - A supplemental agreement was approved whereby the GRP will reimburse the City of Conroe for water system improvements needed for the distribution of surface water throughout the City's water system. The design is complete and construction will be starting in December 2014.

**16-inch Well Collection Line from Woodlands WW9 & WW10** - Contractor continues trenchless installation of 16-inch PVC pipe along Panther Creek Branch. Approximately 4,174 feet of 16-inch PVC pipe has been installed through this month.

**College Park 16-inch Well Collection Line & 12-inch Water Line Loop** - Contractor continues to install 12-inch and 16-inch PVC Pipe near I-45 and Harper's Landing Boulevard. Approximately 8,238 feet of 12-inch and 16-inch PVC pipe has been installed through this month.

#### **WATER RECEIVING FACILITIES**

**Oak Ridge North Water Plant** - Contractor is currently working on the brick fence and will start the driveway restoration. Current substantial completion date is December 7, 2014. Contractor is approximately 71% complete through this month.

**Rayford Road MUD Water Plants** - Contractor is currently installing electrical facilities at Rayford Road MUD WP1 and WP2 and has begun to perform testing on electrical equipment. Contractor is approximately 90% complete through this month.

**Mid-South Water Plant** - A supplemental agreement was approved whereby the GRP will reimburse Mid-South for the construction of improvements to its water plant so that it can receive surface water. Construction has not started on the Mid-South facility at this time.

#### **ALKALINITY IMPROVEMENTS**

**Woodlands Alkalinity Improvements** - The 100% design documents have been submitted to SJRA for their review. SJRA anticipates submitting review comments by first week of December. Anticipate advertising in spring of 2015 for construction contract.

**Southern Montgomery County (SMC) MUD** - A supplemental agreement with SMC MUD was approved by the SJRA Board on October 30, 2014. Certain modifications to SMC MUD's wastewater treatment plant are required to mitigate the impacts from the delivery and distribution of surface water. Under the GRP Contract with SMC MUD, the GRP is obligated to reimburse SMC MUD for the cost of the modifications. The funding for these improvements is budgeted in the GRP Program.



*Construction of concrete slab around a manhole along College Park*

## **3.0 PROCUREMENT**

### **3.1 SOLICITATIONS**

The following advertisements for solicitations occurred this month:

- RFP 14-049 Segment W3D 12- and 16-inch Water Line

### **3.2 CONTRACTS/AGREEMENTS/WORK ORDER APPROVALS**

The following contracts/agreements/work orders were approved this month:

- Supplemental Agreement with Southern Montgomery County MUD for System Improvements
- Work Order No. 2 for establishment and survey of geological monitoring system
- Professional Services Agreement and Work Order No. 1 for analysis of geological monitoring data
- Work Order No. 5 for Final Design and Procurement Phase Services for Transmission Line Segment W3C
- Work Order No. 6 for Land Acquisition Surveying of Transmission Line Segment W3C
- Professional Services Agreement and Work Order No. 1 for Final Design of Fiber Optic Network Communication System along Transmission Line W3C and Montgomery County MUD No. 99
- Work Order No. 2 for Final Design and Procurement Services of Corrosion Protection System for Transmission Line Segment W3C

- Work Order No. 16 for Final Transient Analysis, Transmission System Start-up and Commissioning Plan, Development of eOM, and Population of CMMS

- Work Order No. 19 for SWF startup and operation assistance

### **3.3 PROCESS AND PROCEDURES**

The GRP Program will utilize traditional procurement methods for consultant services and alternative project delivery methods in the procurement of contractor services, if those services are required.

### **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, agreements, and/or contract/work order amendments. Solicitations may be combined, modified, or canceled, or time frames may be modified as deemed necessary.

- Contract for Construction of Transmission Line Segment W3D
- Work Order No. 11 for Construction Phase Services during construction of Transmission Line Segment W3D
- Work Order No. 4 for Construction Materials Testing during construction of Transmission Line Segment W3D

## 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.

A summary of the SJRA GRP Division's Fiscal Year 2015 operating budget (revenue and expenditures) for the month of October is provided as Exhibit 8. 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 illustrates the funding sources presently applied towards the GRP Program CIP budget.

- 1.) 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
- 5.) TWDB Dfund, Series 2012A
- 6.) TWDB Dfund, Series 2013
- 7.) Operating Cash

Contracted commitments are summarized in Table 4.1 for the month of October. 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 table below represents the GRP Program Consultant Invoices and/or Construction Contractor Applications for Payment paid through the end of the report month (Item F).

	Previous 9/30/2014	October 2014 Activity	Year to Date (Thru 10/31/14)
<b>A. Approved Funding</b>	552,637,738.07	-	552,637,738.07
<b>B. Available Funding After Costs</b>	480,133,401.45	-	480,133,401.45
<b>C. Approved Contracts</b>			
Phase I	465,210,197.67	1,281,854.91	466,492,052.58
Extensions	772,269.00	-	772,269.00
<b>D. Project Close Out</b>			
Phase I	(1,456,106.64)	-	(1,456,106.64)
Extensions	-	-	-
<b>E. Uncontracted Funding</b>	15,607,041.42	(1,281,854.91)	14,325,186.51
<b>F. Invoices Paid *</b>			
Phase I	338,830,958.49	15,516,133.62	354,347,092.11
Extensions	172,033.34	45,307.35	217,340.69
<b>G. Remaining Funds **</b>	141,130,409.62	(15,561,440.97)	125,568,968.65

\*Invoices Paid -Figures reflect actual funds paid out as of period end dates noted.

\*\*Remaining Funds-Excludes net investment income



## 4.0 COST REPORT AND FINANCIAL CONSIDERATIONS (CONTINUED)

### 4.4 CONTRACT AMENDMENTS AND CHANGE ORDERS

Each of the GRP Program contracts, agreements and work orders listed in Section 3.2 were presented at the GRP Review Committee and the SJRA Board of Directors meetings in October. The following items were authorized by the SJRA Board of Directors for execution by the SJRA General Manager.

- Amendment No. 1 to Work Order No. 1 for Construction Materials Testing during Construction for Various Surface Water Transmission Line Segments
- Amendment No. 1 to Work Order No. 9 for Preliminary and Final Design, Procurement, Topographic Survey, Metes and Bounds, and Geotechnical Investigation
- Change Orders for time extensions related to waterline disinfection (no SJRA Board approval required because there was no adjustment in the contract amount):
  - ◇ Change Order No. 2 for Segment W1A
  - ◇ Change Order No. 1 for Segment W1B
  - ◇ Change Order No. 2 for Segment W2A
  - ◇ Change Order No. 1 for Segment W2B
  - ◇ Change Order No. 2 for Segment W4

### 4.5 CLAIMS

If and when claims are received, they will be addressed by the GRP Program Team. SJRA reserves the right to withhold certain claims information that is subject to ongoing investigation, pending or threatened litigation, or covered by attorney-client privilege.

### 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

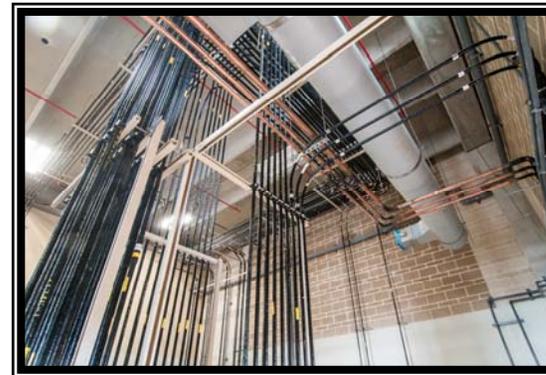
The **total gross funds** (including capitalized interest) required to execute Phase I of the GRP Program are currently estimated at \$564,335,358.49. Additionally, all current GRP Program contracts, including their respective SJRA Board of Director's approved budgeted amounts are listed in **Exhibit 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 various land acquisition consultants, are in the final stages of acquiring land and easements necessary for the surface water transmission system. A total of fourteen easements involving two property owners still remain to be finalized. Negotiations to acquire the remaining easements are at or near final stages of completion. A cumulative summary of easement acquisition activity is provided in **Exhibit 7**.



*Fiberglass electrical conduit  
at the Chemical Building*

## 5.0 QUALITY ASSURANCE

### 5.1 FINAL DESIGN

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

### 5.2 PRE-CONSTRUCTION

There were no pre-construction meetings held this month.

### 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 SWF project site is progressing timely toward meeting the established SWF substantial completion date. Quality Assurance 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.



*Left: Strainers at the Membrane Building  
Above: Water piping to membrane racks at the Membrane Building  
Bottom: Valve at the Membrane 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 Funding Report

**Exhibit 6**—GRP Program Current Authorizations

**Exhibit 7**—Land Acquisition Summary

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

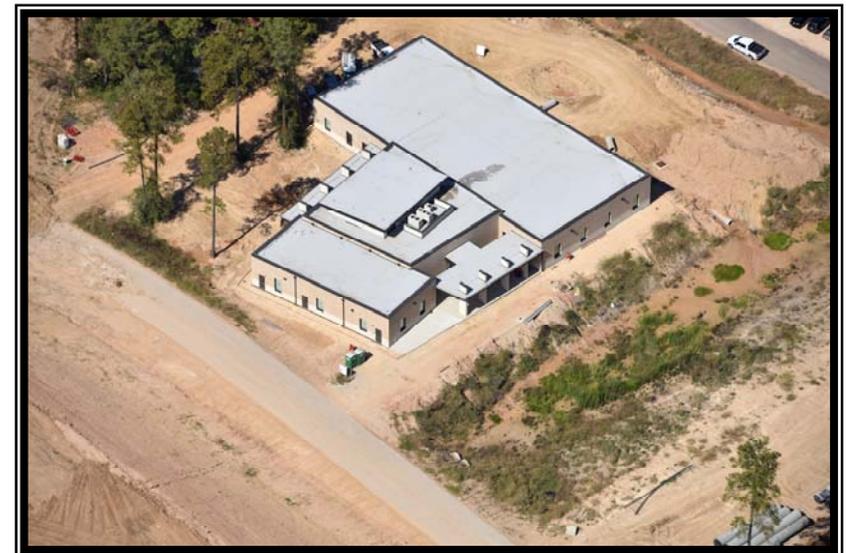
**Exhibit 9**—GRP Program Monthly Meeting Log

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

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

**Exhibit 12**—Surface Water Standpipe Construction Photos

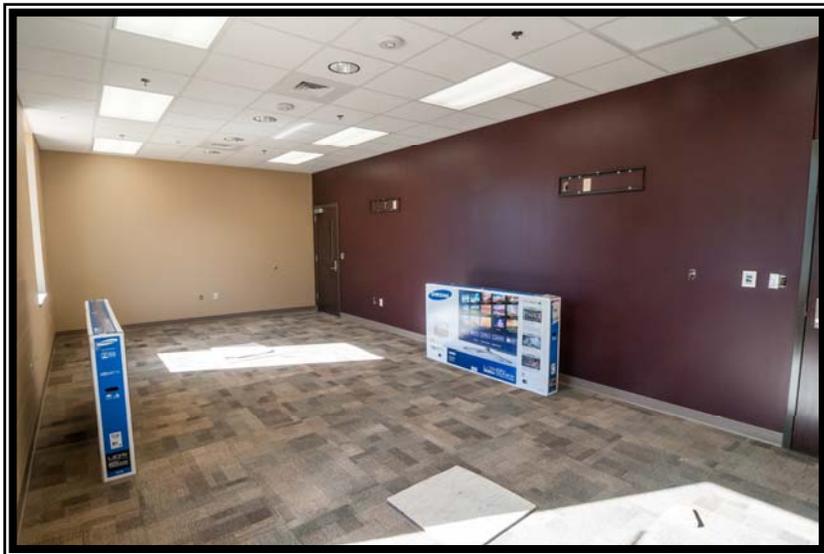
**Exhibit 13**—Fiber Optic Network Communication System



*Left: Operations Conference Room in the Operations Building*

*Above: Coffee Bar in the Operations Building*

*Bottom: Aerial view of the Operations Building*





## Exhibit 2

### GRP Program Estimate-At-Completion as of October 31, 2014

SERVICES	ESTIMATE-AT-COMPLETION
<b>Pre-Engineering Phase Services</b>	<b>\$ 4,702,612</b>
(GRP Development, Environmental Studies, Pilot Plant, Surface Water Treatment Plant Site Survey)	
<b>Engineering Phase Services</b>	<b>\$ 45,877,431</b>
(Planning, Preliminary Engineering, Final Engineering, Geotechnical, Survey, Metes & Bounds, Subsurface Utility Investigation, Environmental)	
<b>Construction Phase Services</b>	<b>\$ 28,966,006</b>
(Engineering Services During Construction, Construction Management & Inspection [Transmission System], Construction Administration & Inspection [SWF], Material Testing)	
<b>Construction</b>	<b>\$ 386,486,131</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	\$ 4,382,077
Transmission Segment C2 - Construction	\$ 9,015,577
Transmission Segment C3 - Construction	\$ 5,072,315
Transmission Segment C4 - Construction	\$ 5,115,397
Transmission Segment T1 - Construction	\$ 14,621,937
Transmission Segment T2 - Construction	\$ 13,475,718
Transmission Segment T3 - Construction	\$ 11,593,194
Transmission Segment W1 - Construction	\$ 15,435,545
Transmission Segment W2 - Construction	\$ 32,701,858
Transmission Segment W3 - Construction	\$ 16,259,693
Transmission Segment W4 - Construction	\$ 3,656,604
Transmission System Standpipe	\$ 2,354,175
Receiving Facilities - Construction	\$ 16,060,449
Surface Water Facilities CMAR (GMP)	\$ 190,704,740
Transmission System Fiber Optic - Construction	\$ 2,985,432
Permanent Access Roadway Construction	\$ 6,825,000
Building No. 1; Access Road; Vegetative Buffer; Construction Materials Testing; SWF Site Vegetation Management; Sanitary Sewer/Access Rd. Relocation	\$ 4,469,037
Other Offsite Construction (Transmission Line Utility Relocations, Receiving Facility Improvements)	\$ 27,396,120
Non-Project Specific Contingency	\$ 4,361,262
<b>Program Management</b>	<b>\$ 10,990,772</b>
(GRP Program Management, Survey, Geotechnical, Transient, Corrosion, Legal Consultants)	
<b>Land Acquisition</b>	<b>\$ 13,479,644</b>
(Legal, Appraisal, Title Research, Land Acquisition Consultants) <sup>(1)</sup>	
<b>Total <sup>(2)</sup>:</b>	<b>\$ 490,502,595</b>

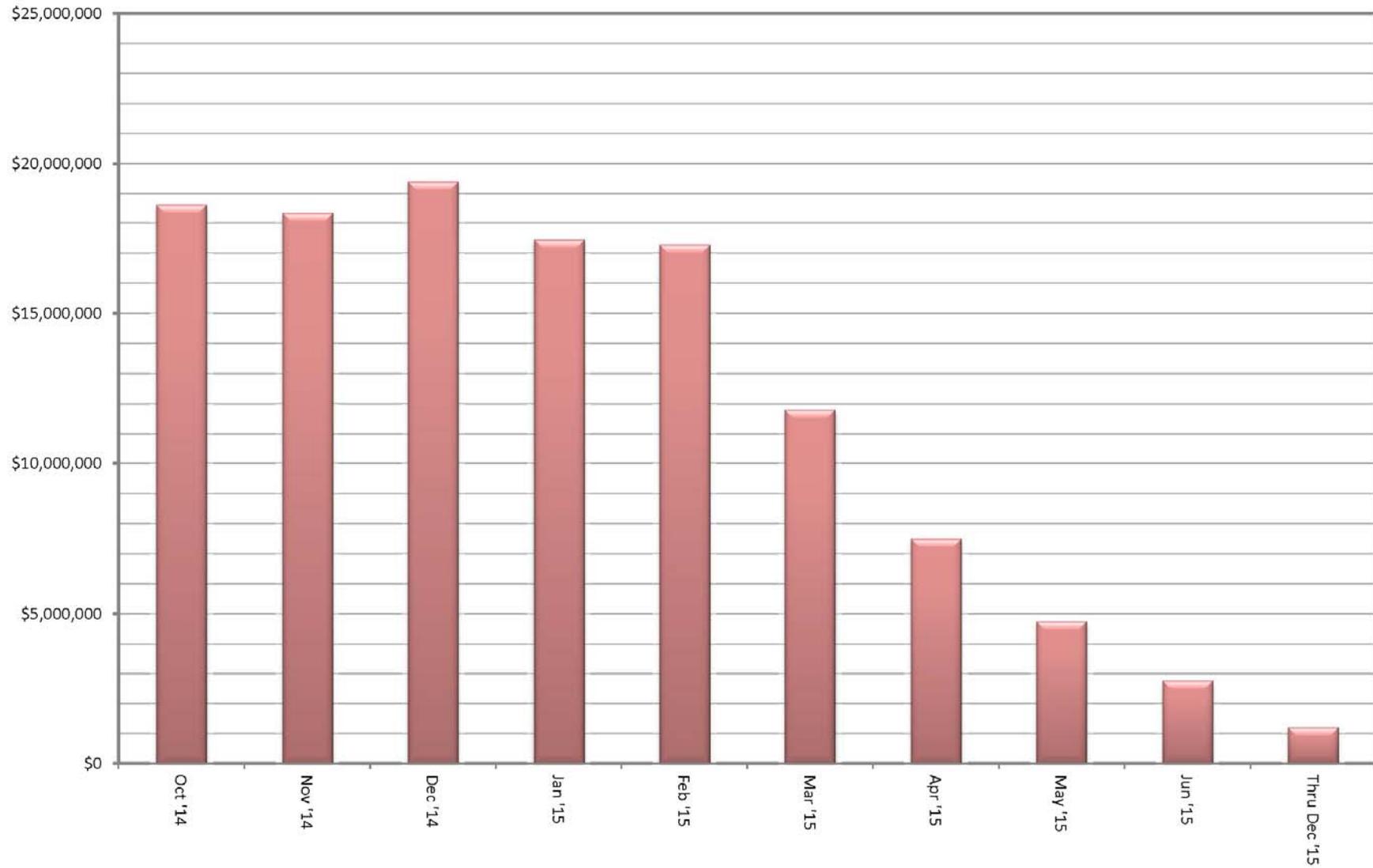
<sup>(1)</sup> Includes revisions to land acquisition cost estimates, land cost, and recategorizing of contingency.

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



### Exhibit 3

#### GRP Program Monthly Forecasted Expenditures as of October 31, 2014



## Exhibit 4

### GRP Program Fund Data as of October 31, 2014

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>	
Future Series 2015 (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>\$ 6,147,815.00</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

## Monthly GRP Program Funding Report

### Fiscal Year 2015

#### Through October 31, 2014

	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)	Contributions from MUDs	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							\$ 93,379.58		\$ 93,379.58
Contributions from MUDs								\$ 294,000.00	\$ 294,000.00
<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>\$ 93,379.58</b>	<b>\$ 294,000.00</b>	<b>\$ 552,637,738.07</b>
<b>B. Contracted Costs</b>									
<b>Phase I</b>									
Contracts Completed	\$ 18,348,030.84	\$ 20,975,701.01	\$ 8,449,314.73	\$ -	\$ 1,155,745.60	\$ 3,721,564.70	\$ 14,407.80	\$ -	\$ 52,664,764.68
Current Contract Values	\$ 2,663,111.00	\$ 39,496,749.31	\$ 47,652,707.93	\$ 161,159,055.87	\$ 126,190,501.51	\$ 28,763,182.48	\$ 78,971.78	\$ -	\$ 406,004,279.88
Change Orders	\$ -	\$ 4,701,445.12	\$ 1,010,780.46	\$ -	\$ 2,110,782.44	\$ -	\$ -	\$ -	\$ 7,823,008.02
Project Close Out	\$ (348,037.50)	\$ (870,739.84)	\$ (172,677.43)	\$ -	\$ (64,626.72)	\$ (25.15)	\$ -	\$ -	\$ (1,456,106.64)
<b>Phase I Total:</b>	<b>\$ 20,663,104.34</b>	<b>\$ 64,303,155.60</b>	<b>\$ 56,940,125.69</b>	<b>\$ 161,159,055.87</b>	<b>\$ 129,392,402.83</b>	<b>\$ 32,484,722.03</b>	<b>\$ 93,379.58</b>	<b>\$ -</b>	<b>\$ 465,035,945.94</b>
<b>Extensions</b>									
Contracts Completed	\$ -	\$ 10,175.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,175.00
Current Contract Values	\$ -	\$ 762,094.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 762,094.00
Change Orders	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Project Close Out	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Extensions Total:</b>	<b>\$ -</b>	<b>\$ 772,269.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 772,269.00</b>
<b>C. Expenditures</b>									
<b>Phase I</b>									
Paid Previous Fiscal Years	\$ 20,599,416.62	\$ 49,618,248.03	\$ 40,595,829.88	\$ 109,374,040.69	\$ 91,422,085.04	\$ 12,922,461.97	\$ 84,942.42	\$ -	\$ 324,617,024.65
Paid Current Fiscal Year	\$ -	\$ 2,121,866.58	\$ 3,809,408.95	\$ 10,818,672.58	\$ 6,937,450.65	\$ 6,041,956.29	\$ 712.41	\$ -	\$ 29,730,067.46
<b>Phase I Total:</b>	<b>\$ 20,599,416.62</b>	<b>\$ 51,740,114.61</b>	<b>\$ 44,405,238.83</b>	<b>\$ 120,192,713.27</b>	<b>\$ 98,359,535.69</b>	<b>\$ 18,964,418.26</b>	<b>\$ 85,654.83</b>	<b>\$ -</b>	<b>\$ 354,347,092.11</b>
<b>Extensions</b>									
Paid Previous Fiscal Years	\$ -	\$ 172,033.34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 172,033.34
Paid Current Fiscal Year	\$ -	\$ 45,307.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,307.35
<b>Extensions Total:</b>	<b>\$ -</b>	<b>\$ 217,340.69</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 217,340.69</b>
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>D. Remaining</b>									
Uncontracted Funds	\$ 366,558.58	\$ 8,446,927.98	\$ 753,294.98	\$ (0.00)	\$ 4,015,658.18	\$ 448,746.79	\$ -	\$ 294,000.00	\$ 14,325,186.51
Funding Balance *	\$ 430,246.30	\$ 21,564,897.28	\$ 13,288,181.84	\$ 40,966,342.60	\$ 35,048,525.32	\$ 13,969,050.56	\$ 7,724.75	\$ 294,000.00	\$ 125,568,968.65

\*Excluding net investment income



## Exhibit 6

### GRP Program Current Authorizations as of October 31, 2014

#### Surface Water Transmission System - Consultant Services

Project	Firm	Amount Authorized by Board
T1	Jones & Carter	\$ 2,166,221.02
T2	Klotz Associates	\$ 1,822,718.66
T3	Espey	\$ 1,892,282.82
W1	LAN	\$ 2,479,560.65
W2	Binkley & Barfield	\$ 3,311,241.40
W3	Cobb Fendley	\$ 3,923,518.50
W4	LJA	\$ 1,009,006.98
C1	Dannenbaum	\$ 959,193.01
C2	Schaumburg & Polk	\$ 2,211,922.28
C3	Kimley Horn	\$ 1,248,690.98
C4	RG Miller	\$ 597,788.37
Fiber Optic	EMA	\$ 1,062,569.67
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>\$ 34,022,216.39</b>

#### Surface Water Facilities - Consultant Services

Project	Firm	Amount Authorized by Board
WTP	HDR Engineering	\$ 19,763,803.92
HSPS	AECOM	\$ 5,455,218.39
StandPipe	AECOM	\$ 192,235.38
RWI&PS	Freese & Nichols	\$ 3,929,369.64
CA&I	CDMSmith	\$ 5,348,633.00
<b>Subtotal - Surface Water Facilities</b>		<b>\$ 34,689,260.33</b>

#### Program Consultant Services & Other Projects

Project	Firm	Amount Authorized by Board
Program Management	Brown & Gay	\$ 10,695,226.55
Program Survey	Landtech	\$ 553,621.50
Program Geotechnical	Raba Kistner	\$ 145,260.00
Prog Transient Analyses	AECOM	\$ 5,647,453.77
Access Rd/Misc Service	ACES	\$ 857,366.25
SWF Surveying	S&V Surveying	\$ 66,875.00
Land Acq	KDM	\$ 431,592.70
Land Acq	PAS	\$ 1,413,334.88
Program Environmental	Halff Associates	\$ 1,063,698.87
Program Fiber Optics	EMA	\$ 1,062,569.67
Program Corrosion	V&A Consulting Engineers	\$ 866,676.00
Program Legal Services & Projects	Multiple	\$ 5,700,577.48
<b>Subtotal - Program Consultant Services &amp; Other Projects</b>		<b>\$ 28,504,252.67</b>

#### Surface Water Transmission System Extensions - Consultant Services

Project	Firm	Amount Authorized by Board
MUD99/115	IDS Engineering Group - x	\$ 293,710.00
MUD99/115	Andrews & Kurth - x	\$ 100,000.00
MUD99/115	PAS - x	\$ 200,000.00
MUD99/115	Arcadis - x	\$ 36,843.00
MUD99/115	V&A Consulting Engineers - x	\$ 20,500.00
MUD99/115	Brown & Gay - x	\$ 121,216.00
<b>Subtotal - Surface Water Transmission System Extensions</b>		<b>\$ 772,269.00</b>



## Exhibit 6 (con't)

### GRP Program Current Authorizations as of October 31, 2014

#### Active or Completed Construction Contracts Managed by GRP

Project	Firm	Amount Authorized by Board
GRP Bldg No. 1	Brookstone	\$ 2,008,673.00
Bldg No. 1/Aqua Tx CMT	Aviles Engineering	\$ 123,814.55
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	\$ 547,341.17
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	\$ 2,062,614.14
Transmission System CMT (T3, W1, W2, W3, W4)	Aviles	\$ 1,851,330.00
Transmission System CMT (T1, T2, C1, C2, C3, C4)	Terracon	\$ 756,711.25
Transmission Segment T1	S.J. Louis Construction of Texas Ltd	\$ 14,521,937.14
Transmission Segment T2	Texas Sterling Construction Company	\$ 13,475,718.33
Transmission Segment T3	S.J. Louis Construction of Texas Ltd	\$ 11,393,193.97
Transmission Segment C1A	Garney Companies, Inc.	\$ 3,837,683.40
Transmission Segment C1B	E.P. Brady, LTD.	\$ 544,393.60
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	\$ 7,127,383.00
Receiving Facilities North	Archer Western	\$ 6,160,184.55
Transmission SCADA - Fiber Optic Construction	Fisk Electric Company	\$ 2,885,432.35
Miscellaneous	Other Construction Contracts, Permits, Fees, etc.	\$ 233,666.23
<b>Subtotal - Construction Contracts</b>		<b>\$ 348,631,365.08</b>

#### Active or Completed Engineering/Construction Contracts Managed by Participants

Project	Participant	Amount Authorized by Board
Distribution and Well Collection Lines	Woodlands Water	\$ 5,041,296.91
Distribution and Water Plants Improvements	City of Conroe Water	\$ 11,017,026.00
Receiving Facilities	Rayford Road MUD Water	\$ 1,752,244.00
Receiving Facilities	City of Oak Ridge North Water	\$ 506,844.00
Wastewater Alkalinity Improvements	Southern Montgomery County MUD Wastewater	\$ 455,975.00
<b>Subtotal -Engineering/Construction Managed by Participants</b>		<b>\$ 18,317,410.91</b>

#### Totals

	Amount Authorized by Board
Surface Water Transmission System - Consultant Services	\$ 34,022,216.39
Surface Water Facilities - Consultant Services	\$ 34,689,260.33
Program Consultant Services & Other Projects	\$ 28,504,252.67
Surface Water Transmission System Extensions - Consultant Services	\$ 772,269.00
Active or Completed Construction Contracts	\$ 348,631,365.08
Engineering/Construction Managed by Participants	\$ 18,317,410.91
<b>Total</b>	<b>\$ 464,936,774.38</b>



## Exhibit 7

### GRP Program Land Acquisition Summary as of October 31, 2014

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	59	0
Transmission System Segment T2	0	0	0	0
Transmission System Segment T3	18	0	18	0
Transmission System Segment C1	19	0	19	0
Transmission System Segment C2	80	0	80	0
Transmission System Segment C3	34	0	21	13
Transmission System Segment C4	4	0	4	0
Transmission System Segment W1	32	0	32	0
Transmission System Segment W2	10	0	10	0
Transmission System Segment W3	177	0	176	1
Transmission System Segment W4	9	0	9	0
Totals:	442	0	428	14

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



## Exhibit 8

### San Jacinto River Authority Groundwater Reduction Plan

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

For the Two Months Ending October 31, 2014

	Oct	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	\$ 3,241,102	\$ 7,182,291	\$ 9,128,817	\$ (1,946,526)	(21%)	\$ 41,992,101	17%
GRP Surface Water Sales	-	-	-	-	0%	4,942,463	0%
<b>TOTAL OPERATING REVENUES</b>	<b>\$ 3,241,102</b>	<b>\$ 7,182,291</b>	<b>\$ 9,128,817</b>	<b>\$ (1,946,526)</b>	<b>(21%)</b>	<b>\$ 46,934,564</b>	<b>15%</b>
<b>OPERATING EXPENSES</b>							
Payroll & employee benefit expenses	\$ 317,644	\$ 631,272	\$ 800,418	\$ 169,145	21%	\$ 5,108,247	12%
Professional fees	20,689	23,689	92,800	69,111	74%	556,800	4%
Purchased & contracted services	7,081	10,785	51,289	40,504	79%	307,732	4%
Supplies, materials & utilities	267,436	278,708	621,202	342,494	55%	6,815,340	4%
Maintenance repairs, parts & rentals	573	686	13,167	12,481	95%	105,750	1%
General & administration	52,879	83,936	157,721	73,786	47%	946,329	9%
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 666,302</b>	<b>\$ 1,029,075</b>	<b>\$ 1,736,597</b>	<b>\$ 707,521</b>	<b>41%</b>	<b>\$ 13,840,198</b>	<b>7%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES</b>							
Interest on investments	\$ 89,261	\$ 92,204	\$ 33,280	\$ 58,924	177%	\$ 199,680	46%
Interest expense	(1,769,346)	(3,556,846)	(3,556,847)	1	(0%)	(21,360,309)	17%
<b>TOTAL NON-OPERATING (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ (1,680,085)</b>	<b>\$ (3,464,642)</b>	<b>\$ (3,523,567)</b>	<b>\$ 58,925</b>	<b>(2%)</b>	<b>\$ (21,160,629)</b>	<b>16%</b>
<b>NET INCOME (LOSS) (EXCLUDING ITEMS NOT BUDGETED)</b>	<b>\$ 894,715</b>	<b>\$ 2,688,574</b>	<b>\$ 3,868,653</b>	<b>\$ (1,180,080)</b>	<b>(31%)</b>	<b>\$ 11,933,737</b>	<b>23%</b>
<b>NON-OPERATING REVENUES &amp; EXPENSES (NOT BUDGETED)</b>							
Depreciation	\$ (32,978)	\$ (65,956)	\$ -	\$ (65,956)	100%	\$ -	0%
<b>TOTAL NON-OPERATING (NOT BUDGETED)</b>	<b>\$ (32,978)</b>	<b>\$ (65,956)</b>	<b>\$ -</b>	<b>\$ (65,956)</b>	<b>100%</b>	<b>\$ -</b>	<b>0%</b>
<b>NET INCOME (LOSS) (BUDGETED AND NOT BUDGETED)</b>	<b>\$ 861,737</b>	<b>\$ 2,622,618</b>	<b>\$ 3,868,653</b>	<b>\$ (1,246,036)</b>	<b>(32%)</b>	<b>\$ 11,933,737</b>	<b>22%</b>



# Exhibit 8 (con't)

## GRP Division

### Clarification of Actual & Budget Variances

### For Two Months Ending October 31, 2014

Category	YTD - Driver	October 2014	FYTD 2015
GRP Pumping Fees	Usage variance due to weather conditions and change in consumer behavior. This trend began in FY2014 and has continued into FY2015. If the trend persists, pumpage and surface water rates may be impacted in future fiscal years.	(939)	(1,947)
Payroll and related expenses	Budgeted positions not filled as scheduled.	82	169
Professional Fees	Professional fees less than budgeted.	26	69
Purchased & Contracted Services	Purchased and contracted services less than budgeted.	19	41
Supplies, Materials, Utilities, Maintenance, Repairs, Parts & Rentals	Fuel, office supplies, phones, recruiting and misc. expenses less than budgeted.	21	71
	Chemicals-no usage this month	188	376
	Utilities-less than budgeted	67	134
	TRA Reservation Fee/Paid October-14 Budgeted in January-15	(238)	(238)
	Maintenance repairs, parts & rentals expense less than budgeted.	6	12
General & Administration	Allocated labor and related expenses less than budgeted, anticipated a quicker rate of growth than has been actualized.	26	74
Non-Operating	Interest/Investment Income	73	59
	Other Revenues	-	-
	Bond interest expense	-	-
	Capital Contributions	-	-
	Depreciation expense	(33)	(66)
	Bond Issuance Cost Amort expense	-	-
		<b>(702)</b>	<b>(1,246)</b>



## Exhibit 9

### GRP Program Monthly Meeting Log for October 2014

Meeting	Subject of Meeting	Location	Date	Participants
RFP 14-049 Pre-Proposal Meeting for WTL Segment W3D	Segment W3D	G&A Building	10/14/2014	SJRA Staff, GRP Program Team and Consultant Team
Catahoula Well Discussion with City of Willis	Catahoula Well	G&A Building	10/21/2014	SJRA Staff, Consultant Team, and City of Willis
GRP Review Committee Meeting	Board Agenda Items	G&A Building	10/27/2014	GRP Review Committee, SJRA Staff and General Public
RFP 14-049 Proposal Receipt for Segment W3D	Segment W3D	G&A Building	10/28/2014	SJRA Staff, GRP Program Team and Consultant Team
SJRA Board of Directors Meeting	Board Agenda Items	G&A Building	10/30/2014	SJRA Board of Directors, SJRA Staff and General Public
CMAR Coordination Meeting	CMAR	GRP Building	Weekly	SJRA Staff, GRP Program Team and Consultant Team
Construction Administration and Inspection Meetings	Construction	GRP Building	Weekly	SJRA Staff, GRP Program Team and CA&I Team
Water Receiving Facilities-South Progress Meeting	WRF-S	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team



## Exhibit 9 (con't)

### GRP Program Monthly Meeting Log for October 2014

Meeting	Subject of Meeting	Location	Date	Participants
Water Receiving Facilities-North Progress Meeting	WRF-N	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team and Consultant Team
Segments W1A, W1B, W2A, W2B, W3A, W3B, and W4 Progress Meetings	Segments W1A, W1B, W2A, W2B, W3A, W3B, and W4	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team, and Consultant Team
Segments T1 and T2 Progress Meetings	Segments T1 and T2	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team, and Consultant Team
Segment T3 Bi-Weekly Progress Meeting	Segment T3	GRP Building	Bi-Weekly	Contractor, SJRA Staff, GRP Program Team, and Consultant Team
Segments C1A, C1B, C2, C3 and C4 Monthly Status Meetings	Segments C1A, C1B, C2, C3 and C4	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team, and Consultant Team
Standpipe Progress Meeting	Standpipe	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team, and Consultant
FONCS Monthly Progress Meetings	FONCS	GRP Building	Monthly	Contractor, SJRA Staff, GRP Program Team, and Consultant
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



❶ *Raw Water Intake—Pump demonstration testing*

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



① *Raw Water Intake—Return of water to Lake Conroe*

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



② Pretreatment—Installation of hoseless sludge collection system and inclined plate settlers

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



③ *Membrane Building—Pipe connections to membrane micro-filtration assemblies*

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



④ *Chemical Building—FRP supports for grating*

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



⑤ *Granulated Activated Carbon Building—Installation of piping and GAC transfer pumps*

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



⑥ *Blower Building—Installation of piping in pipe rack*

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



① *Backwash Equalization Basin—Mechanical installation in pump room*

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



⑥ *Sludge Thickeners—Stilling well and catwalk installation*

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



⑨ *Entry signage at the Operations Building*

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

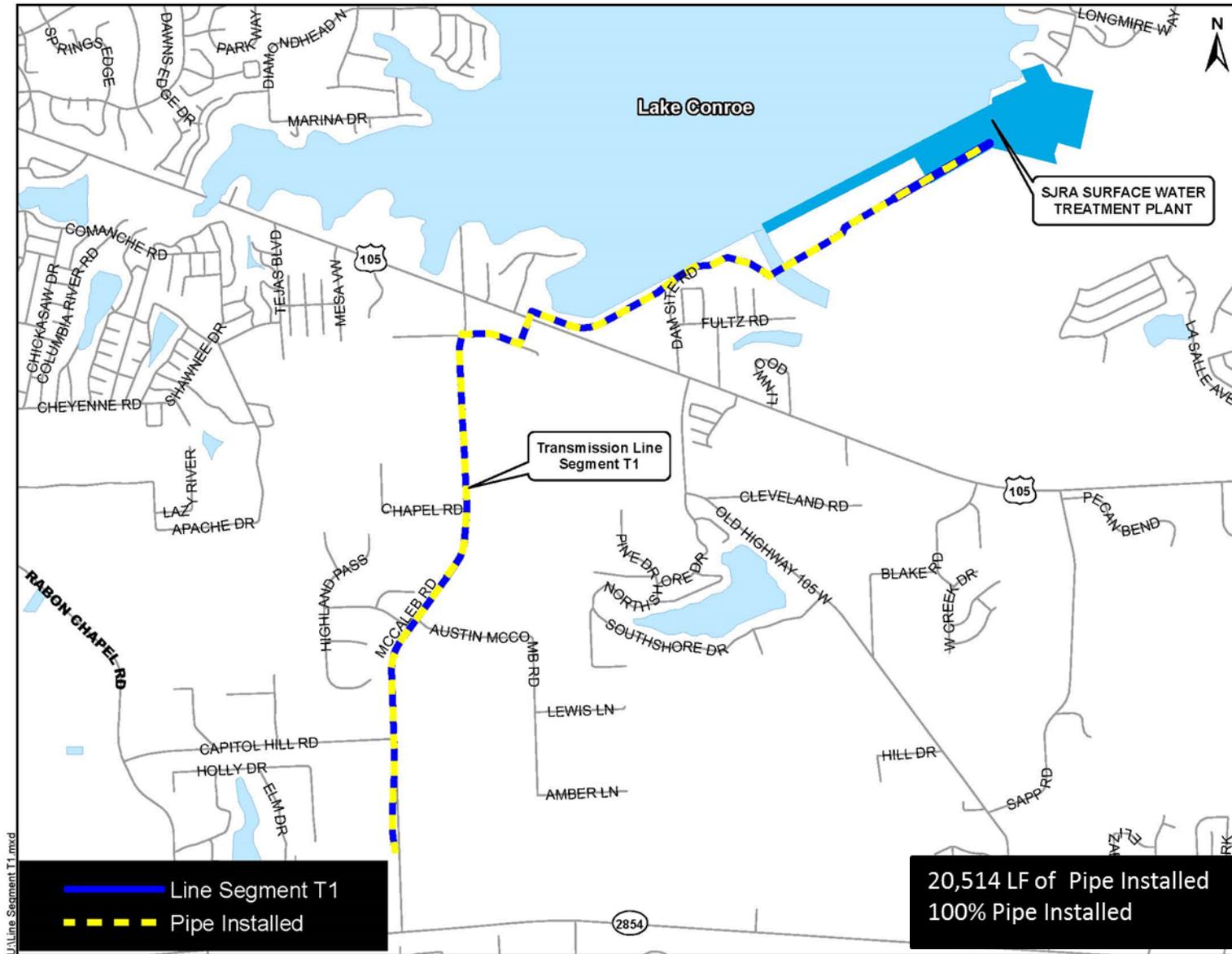


⑨ *Operations Building—Server Room*

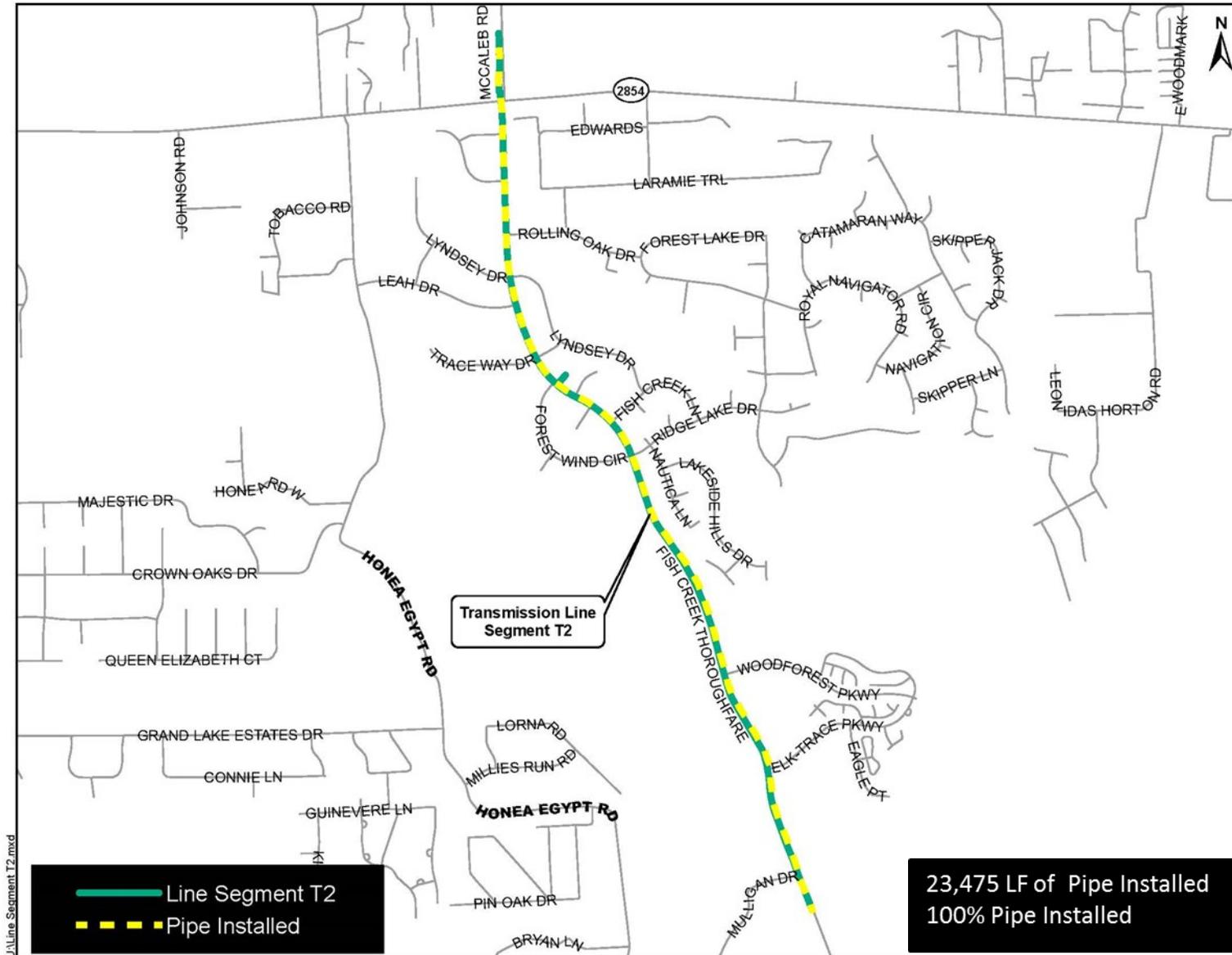
## Transmission Line System Construction Photos



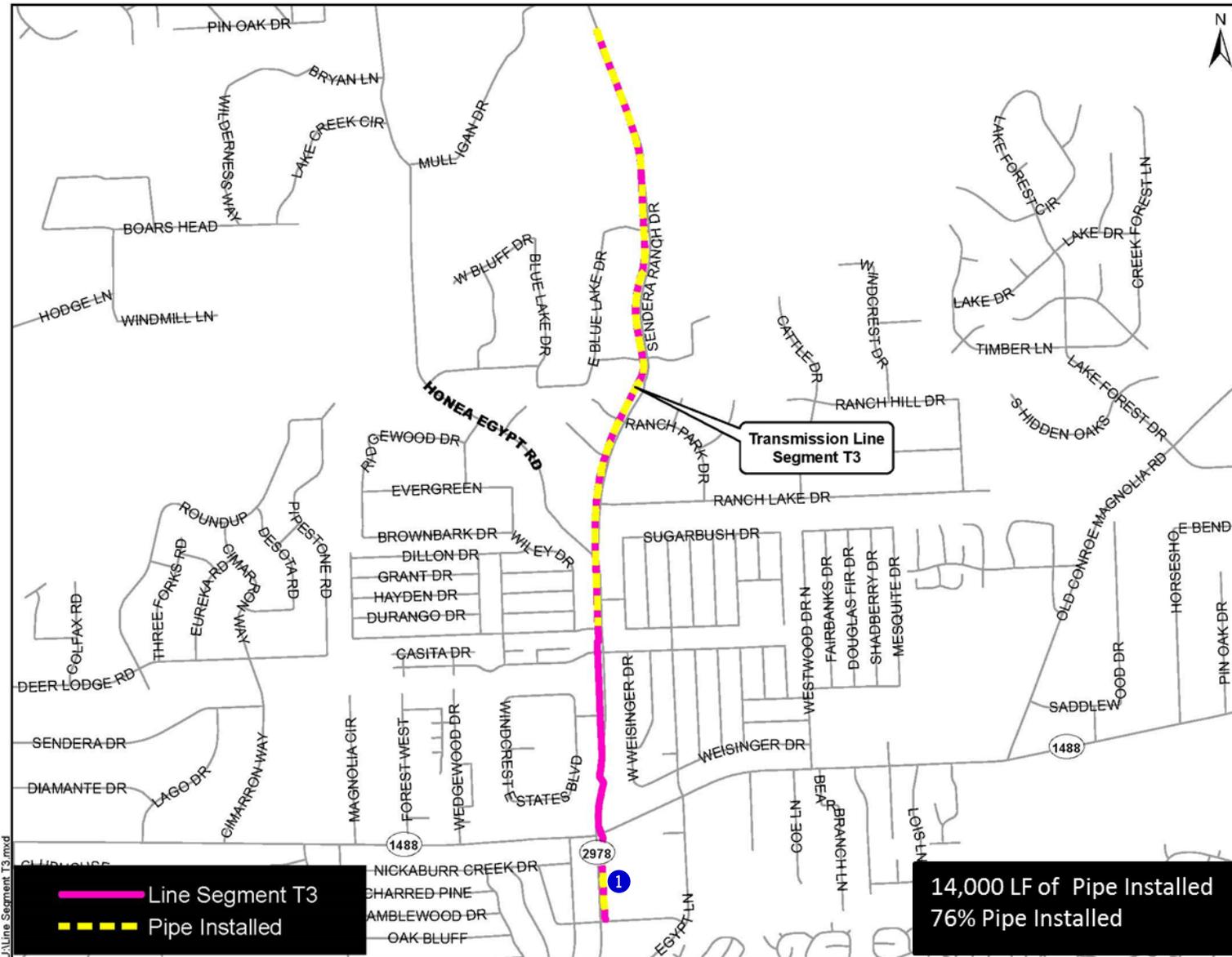
# EXHIBIT 11 Transmission Line System Construction Photos



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



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

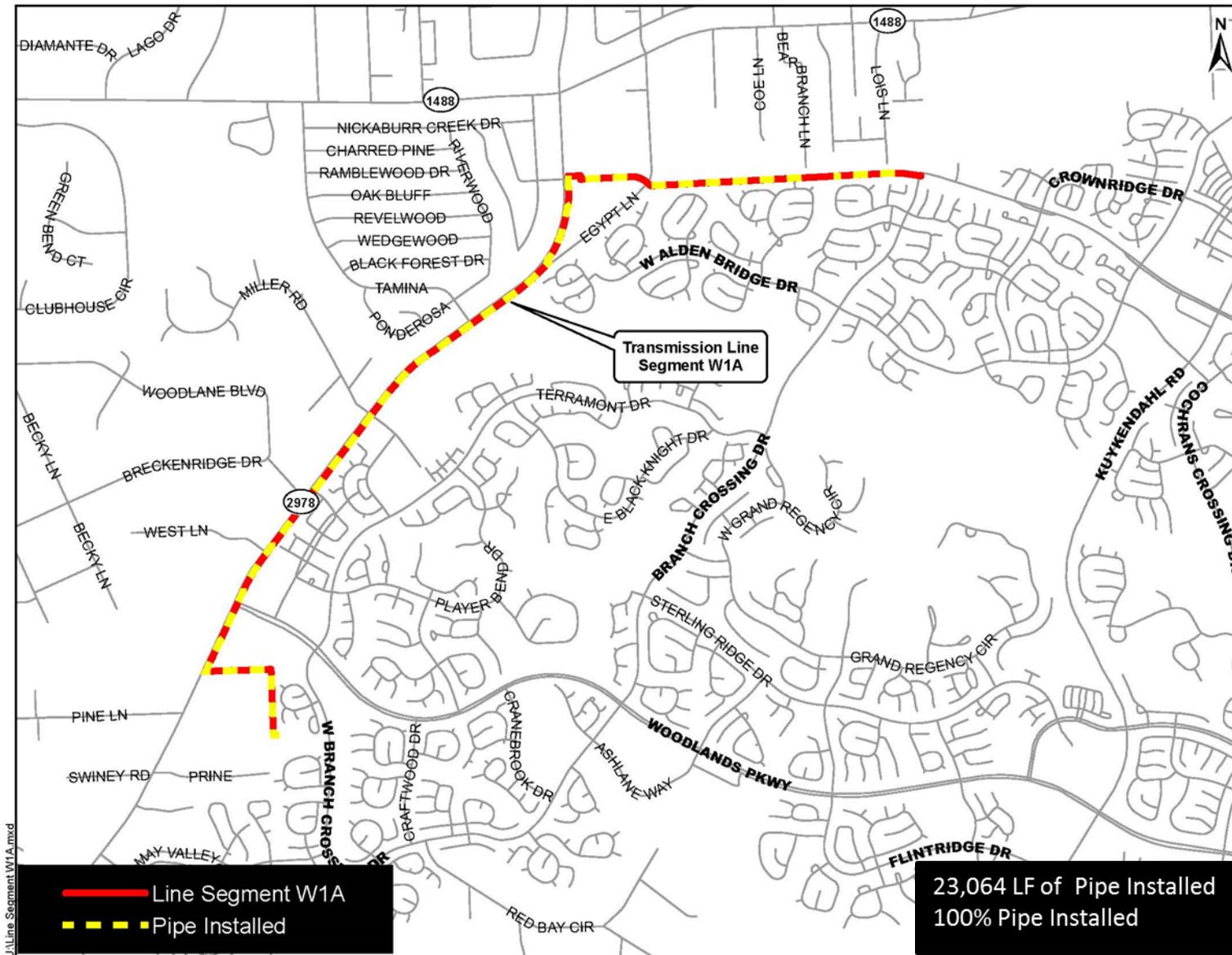


## EXHIBIT 11 (con't) Transmission Line System Construction Photos

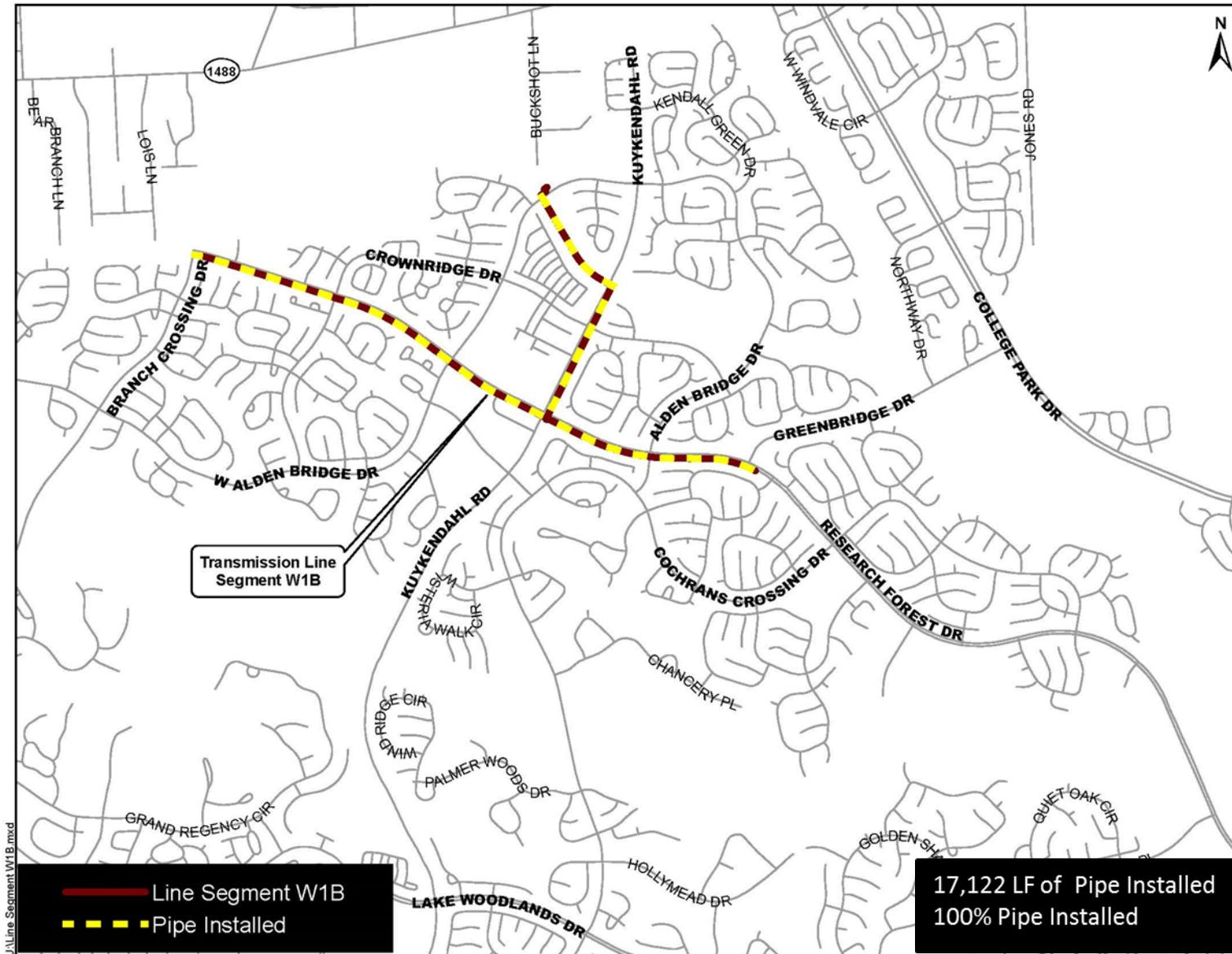


① Site restoration along FM 2978 south of FM 1488

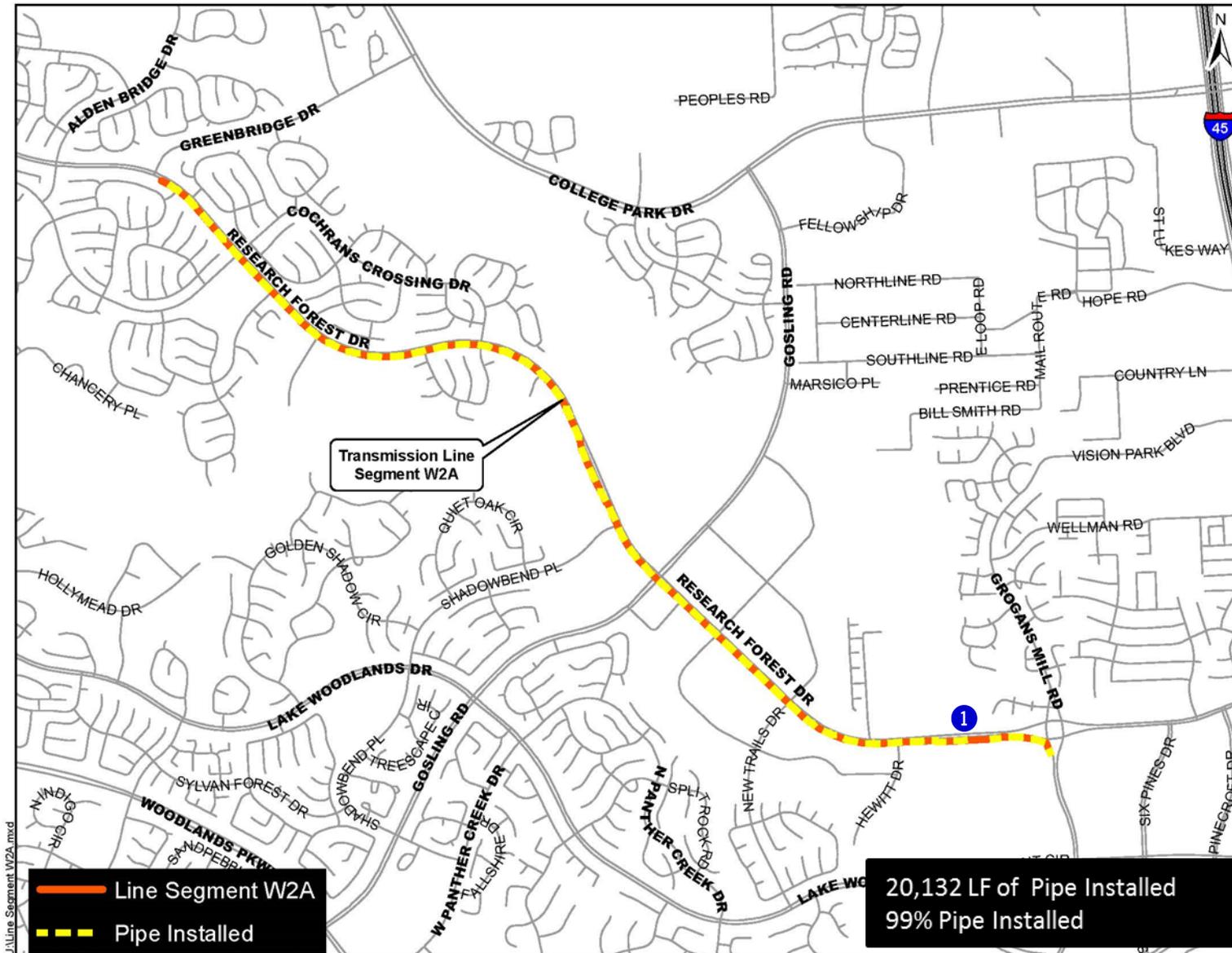
# EXHIBIT 11 (con't) Transmission Line System Construction Photos



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



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



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

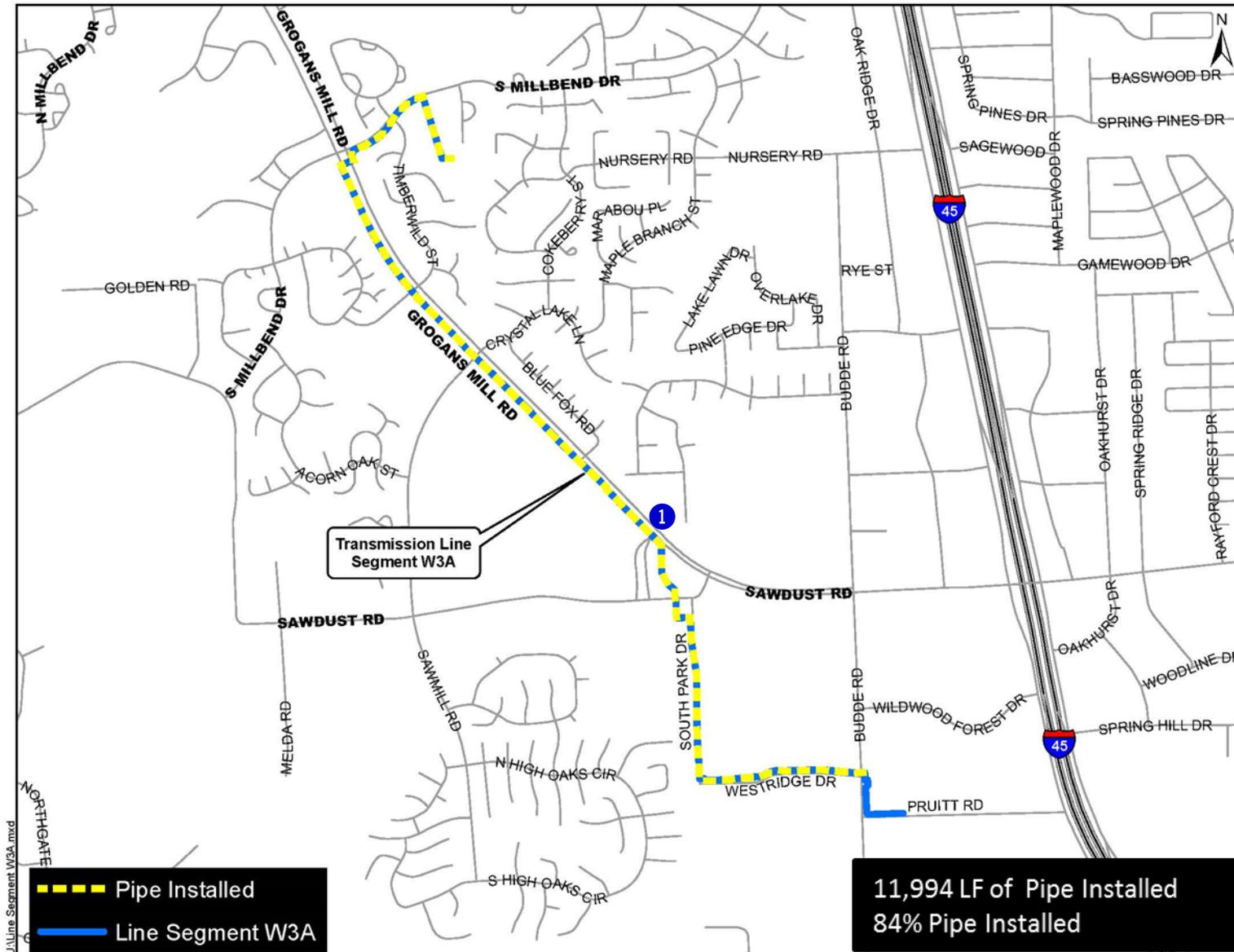


❶ 30-inch open-cut pipe installation along Research Forest Drive at the Lake Woodlands bridge





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



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



① *Site restoration along Grogans Mill*

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

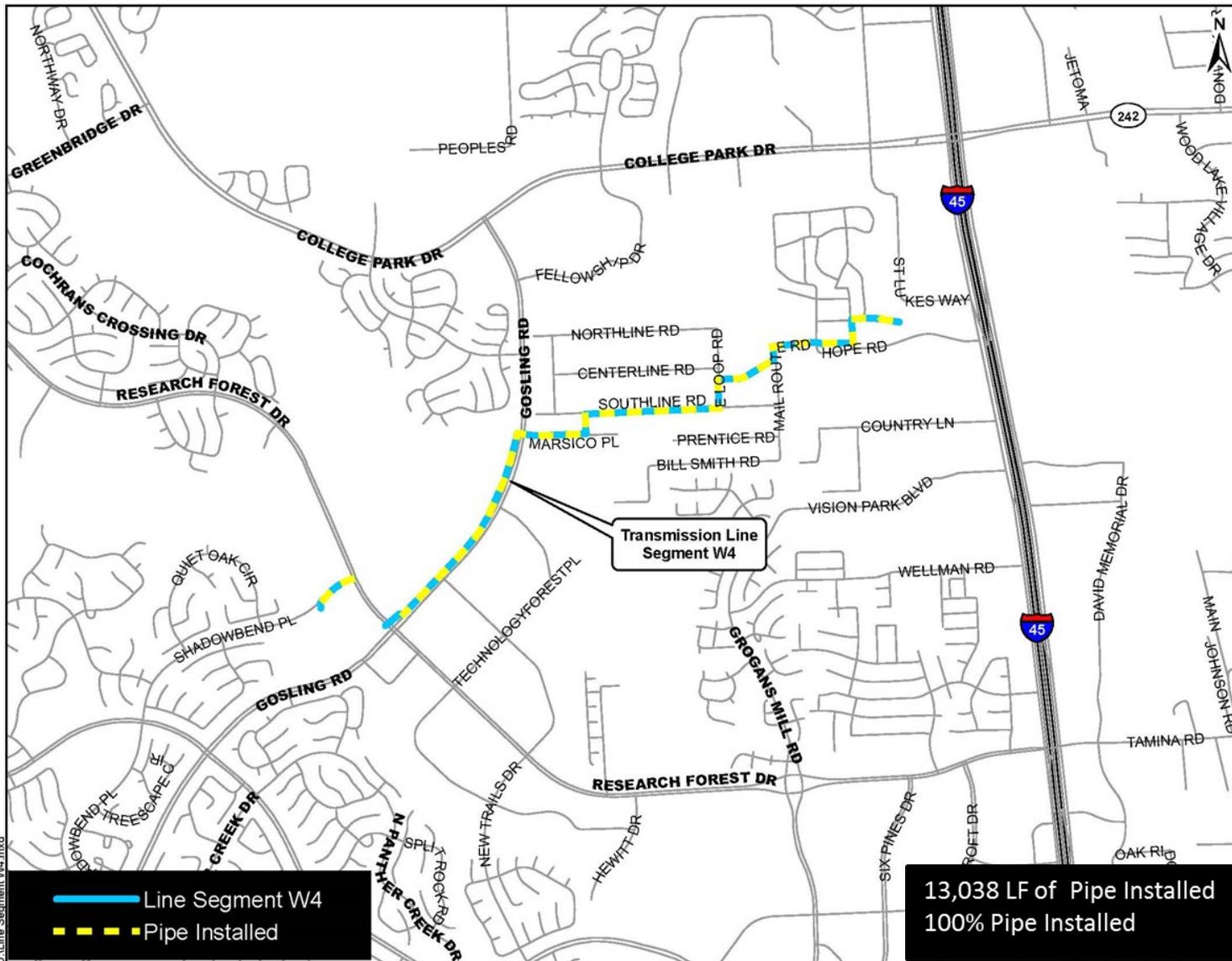


## EXHIBIT 11 (con't) Transmission Line System Construction Photos

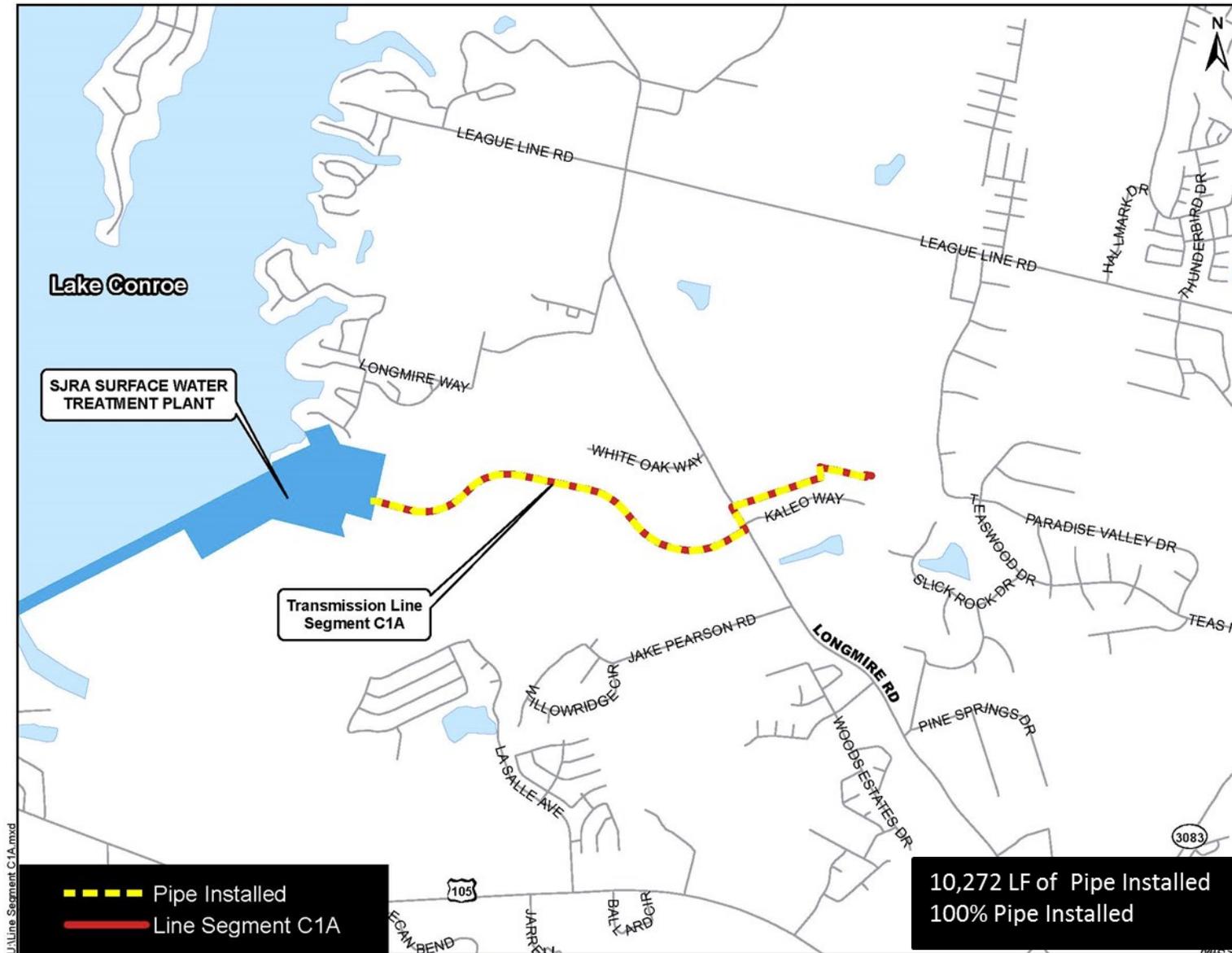


① 20-inch open-cut pipe installation along Kinder Morgan Pipeline easement

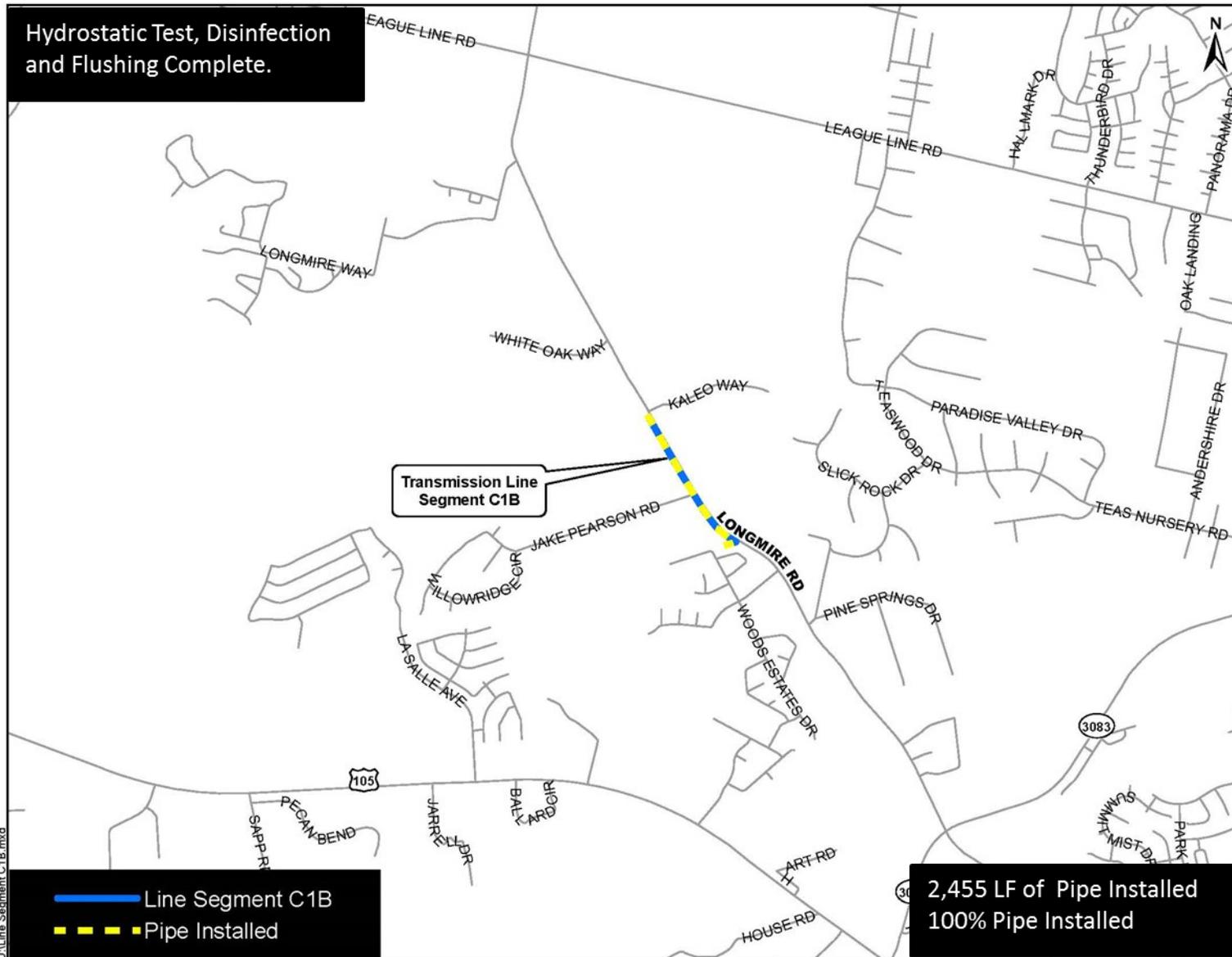
# EXHIBIT 11 (con't) Transmission Line System Construction Photos



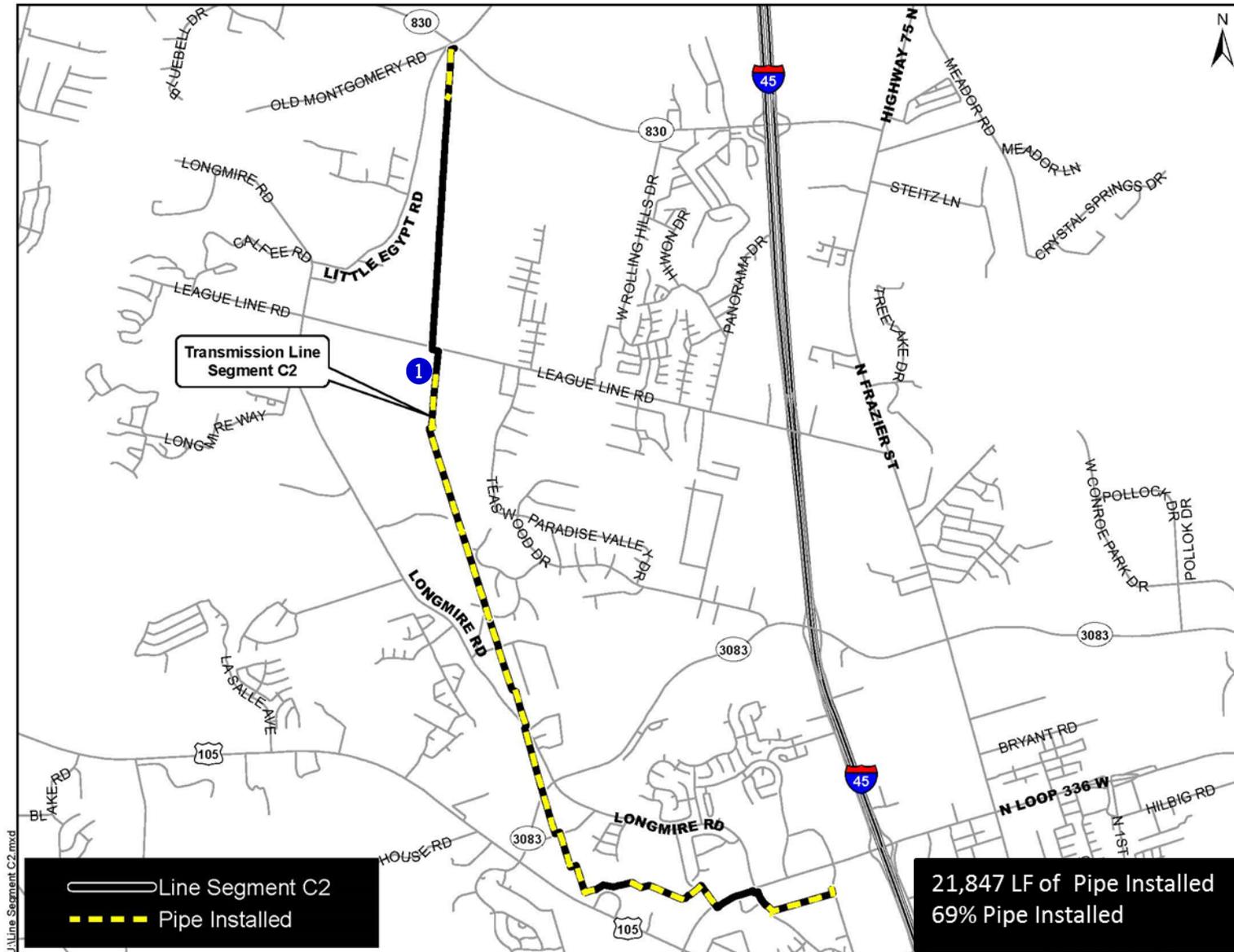
# EXHIBIT 11 (con't) Transmission Line System Construction Photos



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



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

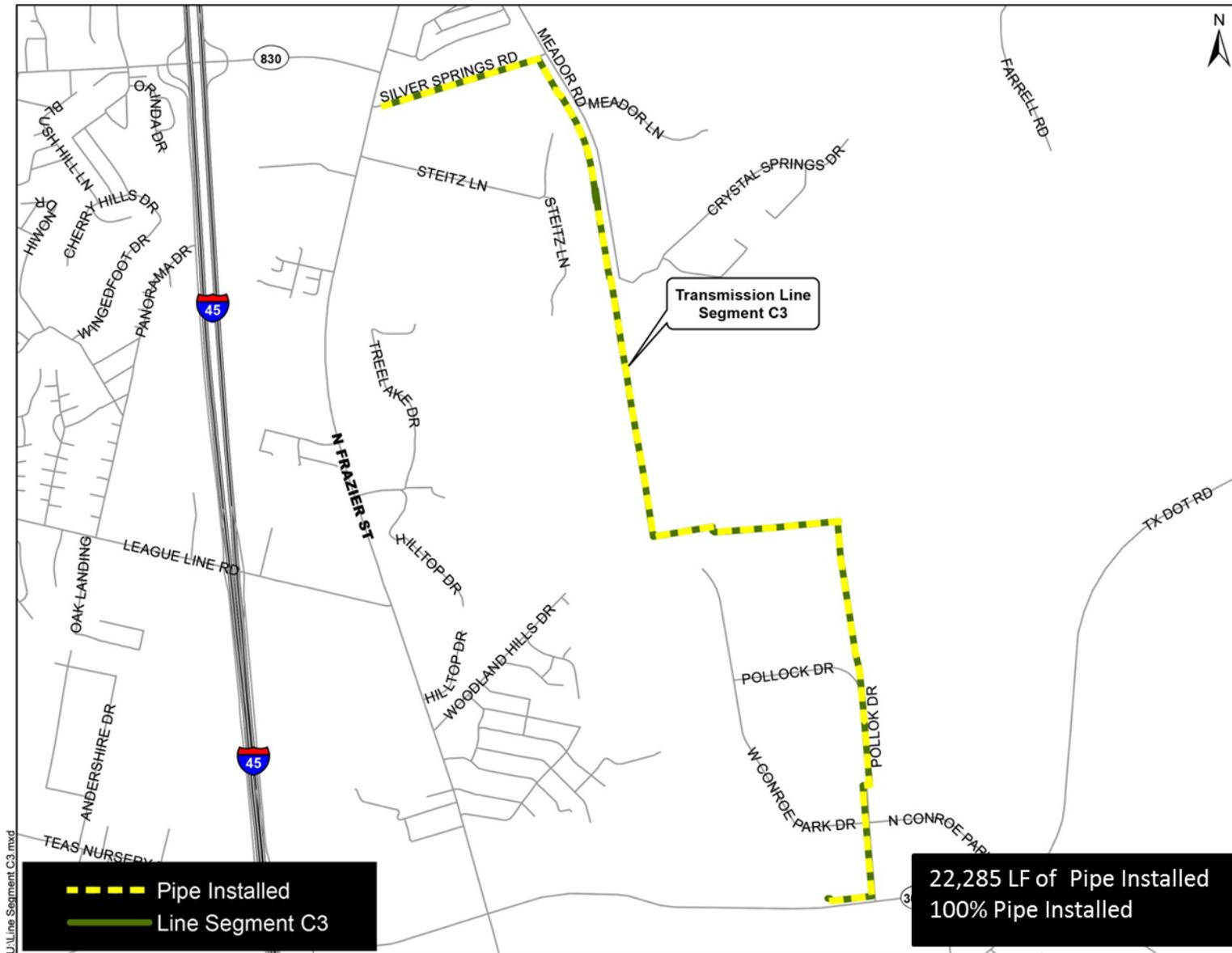


## EXHIBIT 11 (con't) Transmission Line System Construction Photos

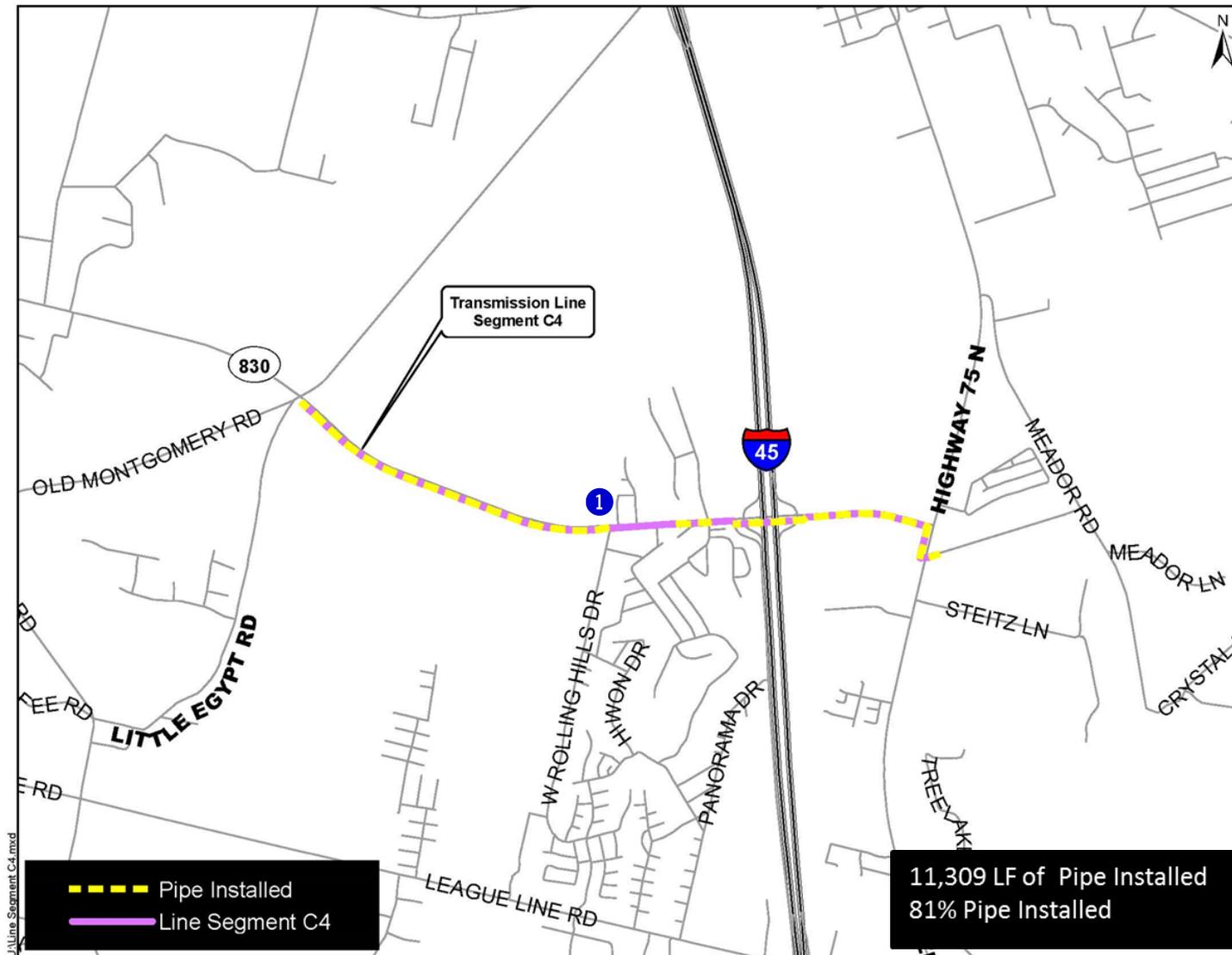


① 36-inch open-cut pipe installation along Entergy Corridor

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



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



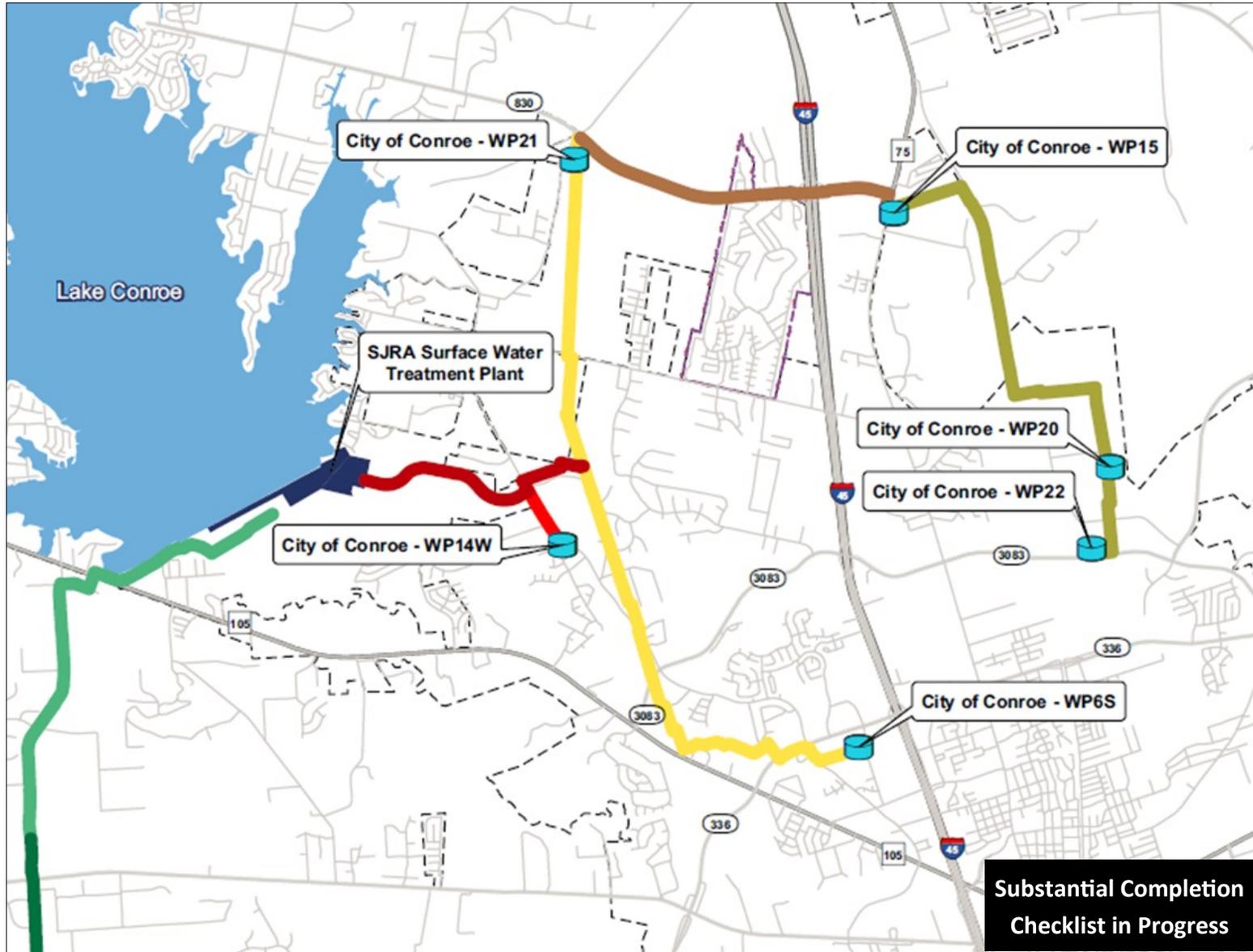
## EXHIBIT 11 (con't) Transmission Line System Construction Photos



① 24-inch PVC pipe fusing operation along FM 830

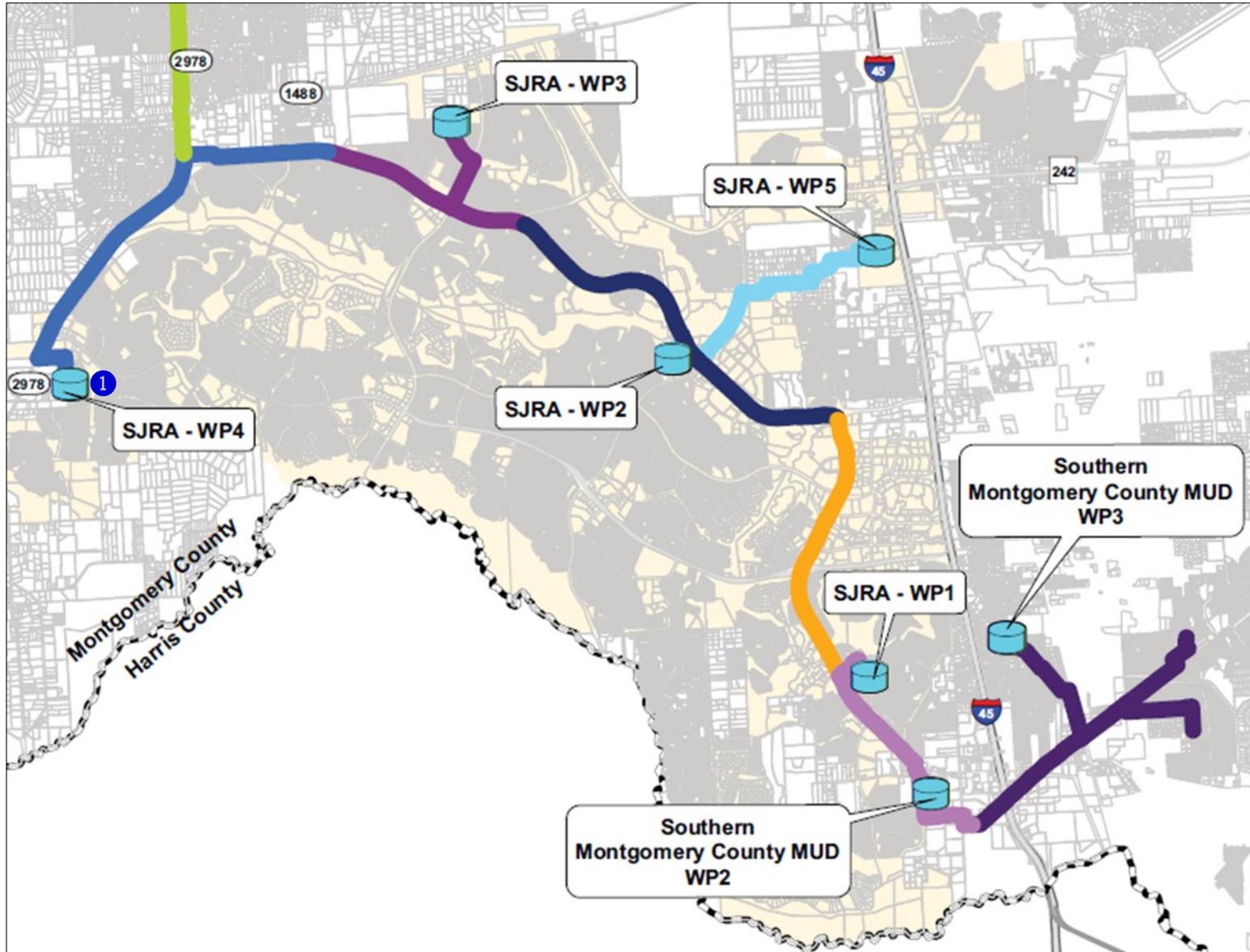
# EXHIBIT 11 (con't) Transmission Line System Construction Photos

## WATER RECEIVING FACILITIES—NORTH



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

## WATER RECEIVING FACILITIES—SOUTH



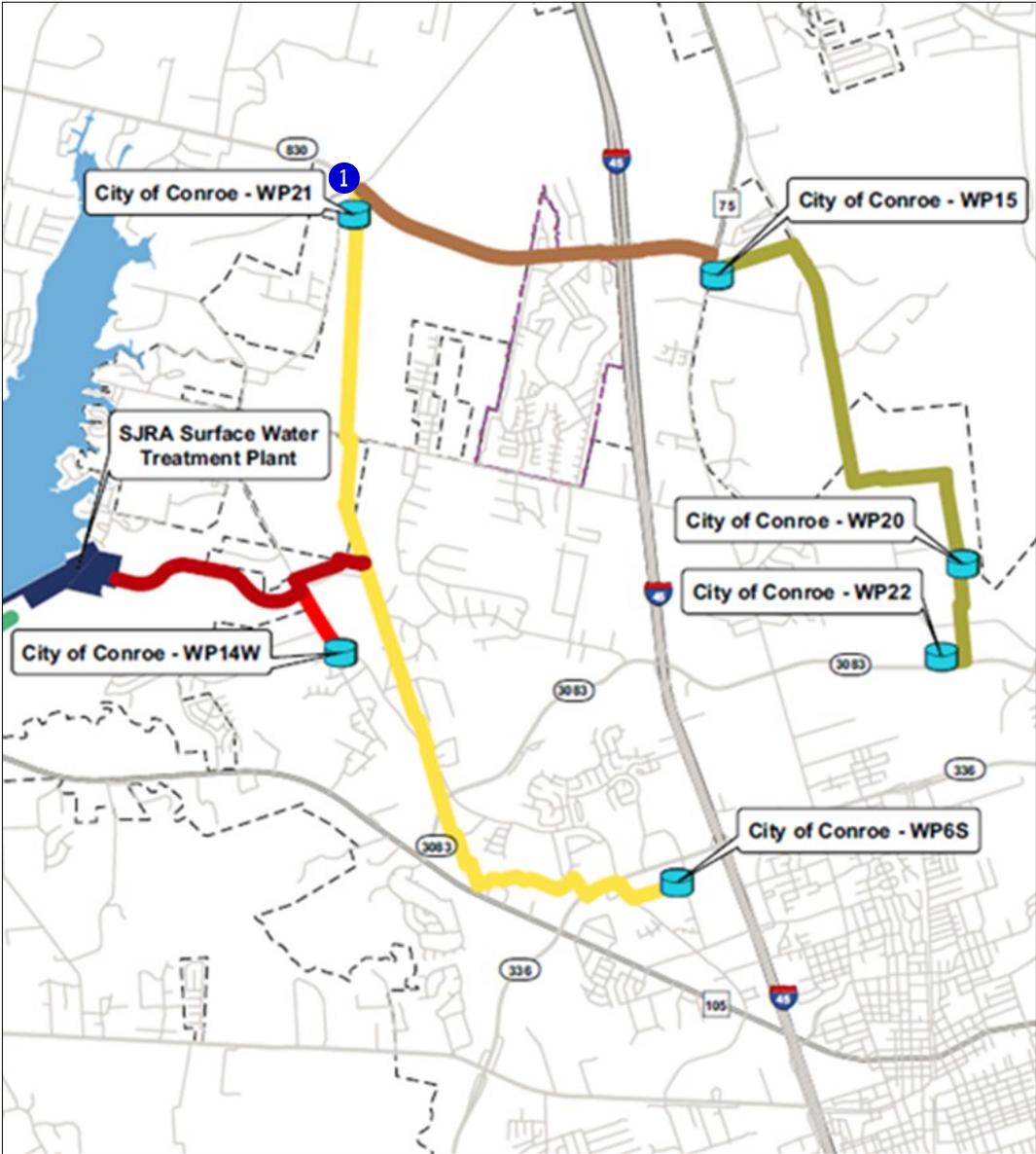
## EXHIBIT 11 (con't) Surface Transmission System Line Construction Photos



① *Flow Control Pressure Station at Woodlands Water Plant No. 4*

# EXHIBIT 12 Surface Water Standpipe Construction Photos

Surface Water Standpipe



## EXHIBIT 12 (con't) Surface Water Standpipe Construction Photos



❶ *Overflow pipe installation to Standpipe*

# Fiber Optic Network Communication System Photos



## EXHIBIT 13 Fiber Optic Network Communication System



*Fiber optic cable and innerduct installation along Segment T1*

## EXHIBIT 13 Fiber Optic Network Communication System



*Prepping innerduct for pulling along Segment W4*

# 7.0 GRP PROGRAM EXTENSIONS

## 7.1 ENGINEERING

Design efforts are underway for the GRP Program Extension projects. Below is a summary of the of the extension projects through the month of October.

**Transmission Segment W3C** - Segment W3C includes approximately 6,900 linear feet of 12-inch pipe to be constructed east of and connecting to Segment W3B along the Kinder Morgan (Tennessee Gas) pipeline corridor east of I-45, to northward along Aldine Westfield Road to the Montgomery County MUD 99 Water Plant No. 1. The W3C 30% design drawings and the Preliminary Engineering Design Report (PER) was submitted in September for review.

**MUD 99 Receiving Facilities** — The 90% design drawings and specifications were submitted in September for review.

