GRP PROGRAM CONSTRUCTION PROGRESS



GRP Review
Committee
Meeting
August 25, 2014



SJRA Board of Directors Meeting August 28, 2014

SURFACE WATER FACILITY CONSTRUCTION ADMINISTRATION

Project Data Thru 7/31/2014

Contracted Amount: \$190,704,740.00

Change Orders: \$ 0.00

Estimate to Complete: \$190,704,740.00

Amount Invoiced: \$132,709,131.00

Percent Complete: 70%

Completion Date: <u>June 2015</u>



SURFACE WATER FACILITY CONSTRUCTION ADMINISTRATION

Project Data Thru 7/31/2014

- Over 150,000 LF or 28.4 miles of medium voltage cable installed
- 3.8 Acres of roofing installed

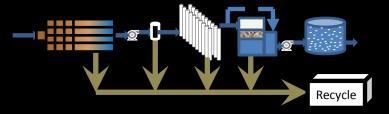






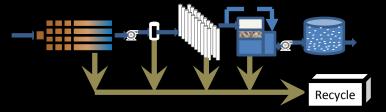
Raw Water Intake & Pump Station – Pump assembly and slide gate installation





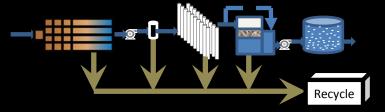


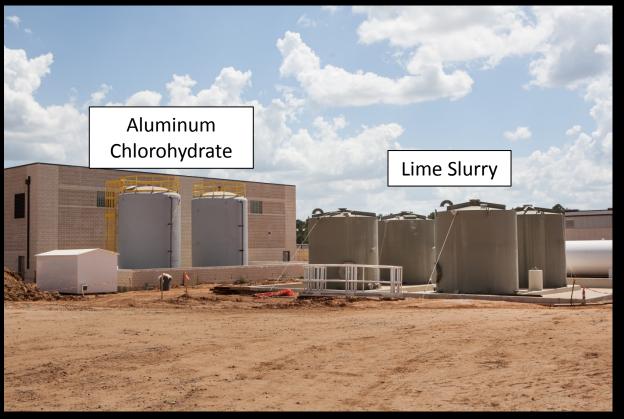
Membrane Building – Feed pump and piping installation





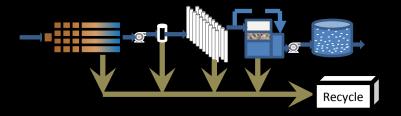
Granulated Activated Carbon – Carbon contactor process piping installation





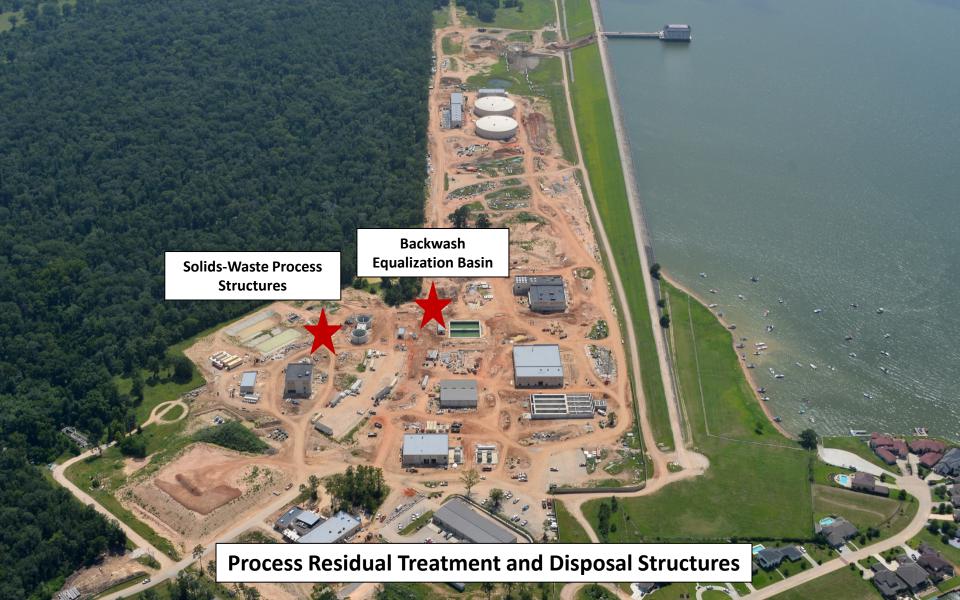
Chemical Building – Storage tank installation

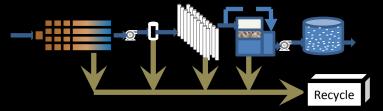






High Service Pump Station – Transformer installation (12470V:4160V)







Dewatering Building – Pedestal for belt filter press





Operations Building – Drywall installation and finishing

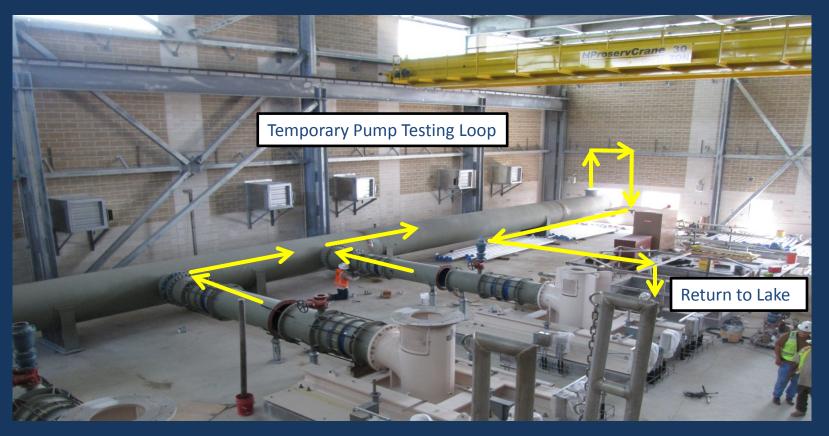
STRUCTURAL LEAK TESTING PLAN



Currently in Progress

Connection

RAW WATER PUMP TESTING PLAN



Beginning September 2014

SURFACE WATER FACILITY CONSTRUCTION PROGRESS

Questions?



SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS



TRANSMISSION LINE SYSTEM CONSTRUCTION ADMINISTRATION

Project Data Thru 7/31/2014

Original Contract Amount: \$ 146,610,000.60

Change Orders: \$ 2,391,349.69

Total Contract Amount: \$ 149,001,350.29

Amount Invoiced: \$105,535,314.02

Percent Complete: 71%

Estimated Completion Date: May 2015



TRANSMISSION LINE SYSTEM **CONSTRUCTION ADMINISTRATION**

Project Data Thru 7/31/2014

Average Daily workforce:

Piping installed to date: **38.0** miles

Average cost per day:

Percentage of pipe installed:

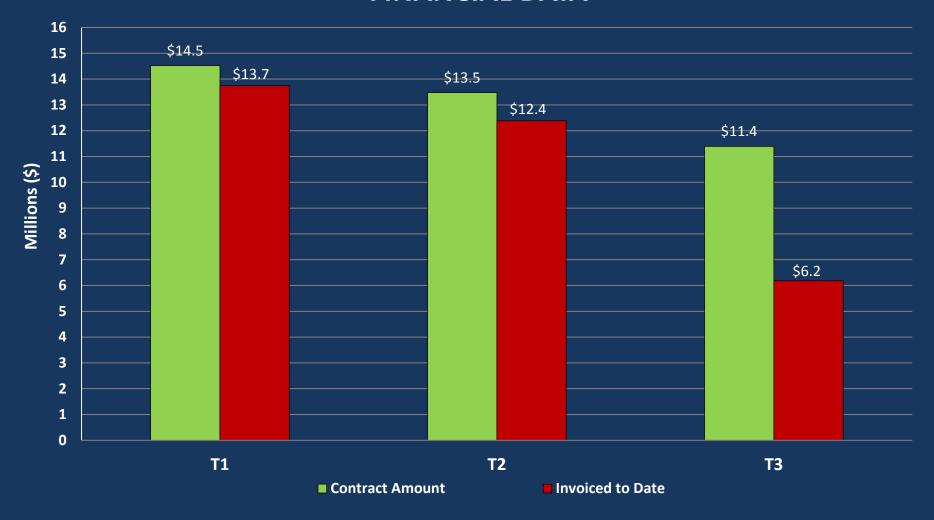
296 workers

\$271,517

74%

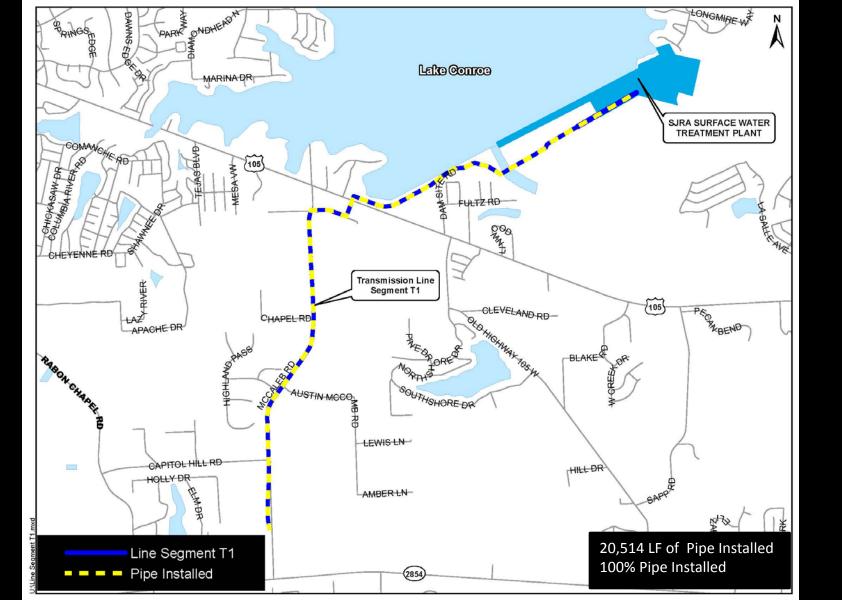


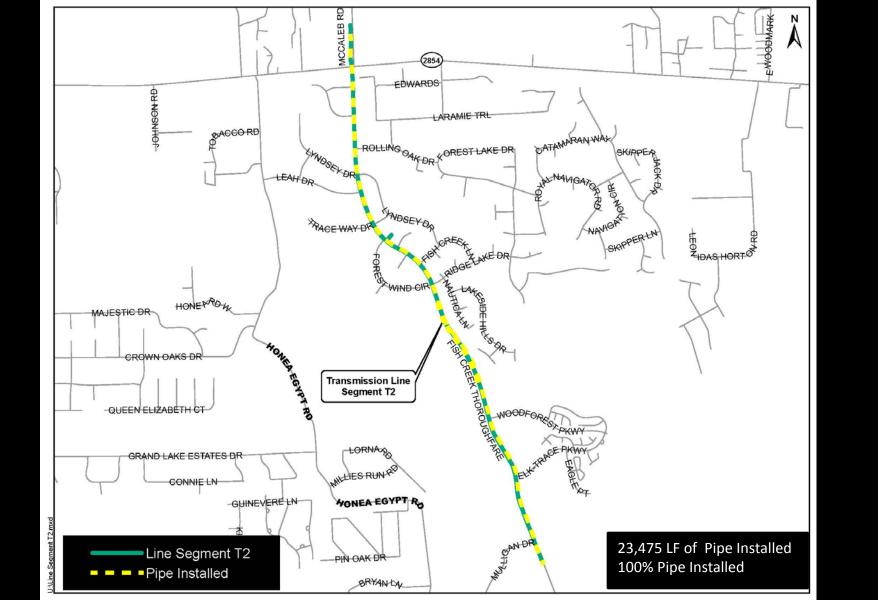
SURFACE WATER TRANSMISSION SYSTEM "T" ROUTES - FINANCIAL DATA

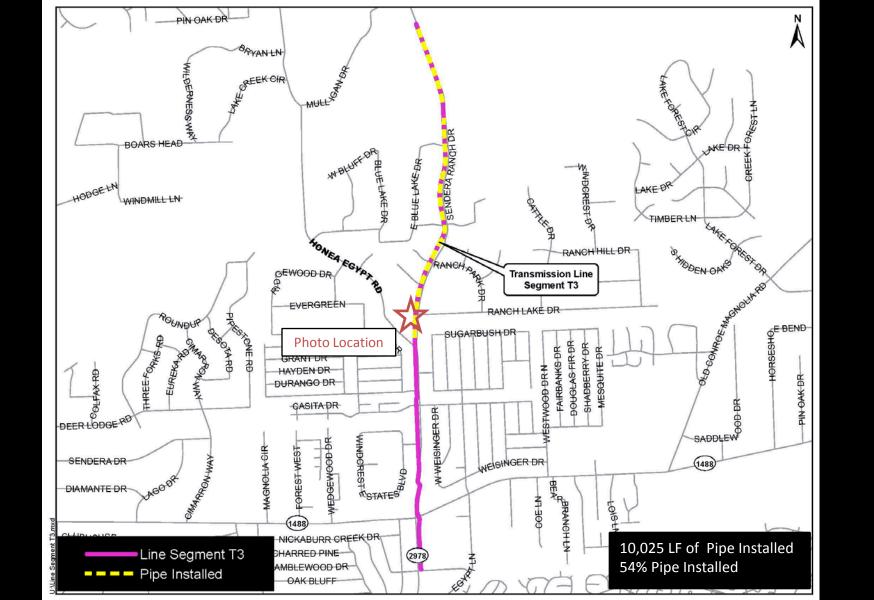


SURFACE WATER TRANSMISSION SYSTEM "T" ROUTES PROJECT STATUS

Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
T1	95%	25%		
T2	92%			
Т3	54%			



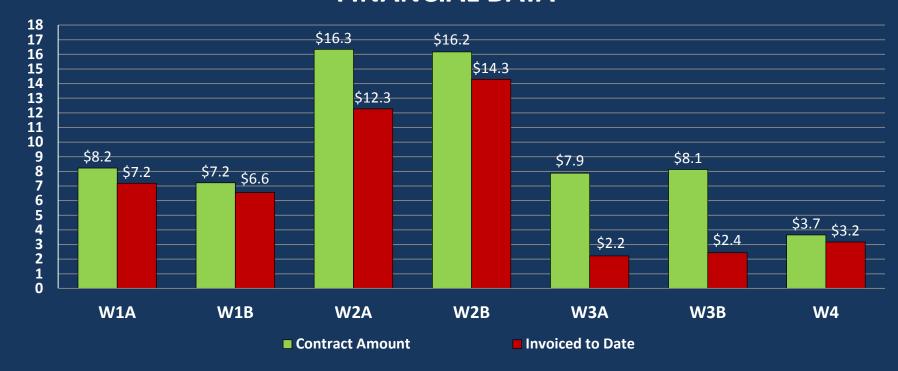






54-inch pipe installation along Sendera Ranch Road

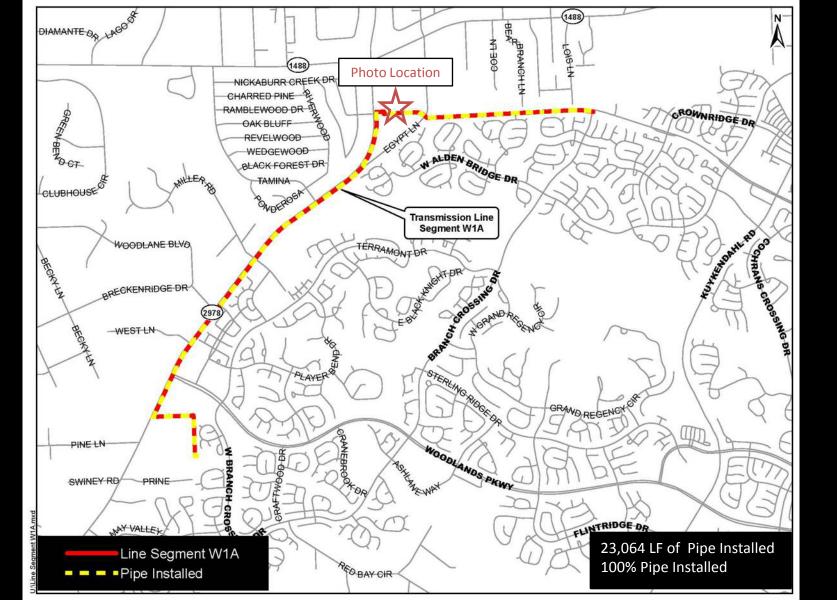
SURFACE WATER TRANSMISSION SYSTEM "W" ROUTES - FINANCIAL DATA



Millions (\$)

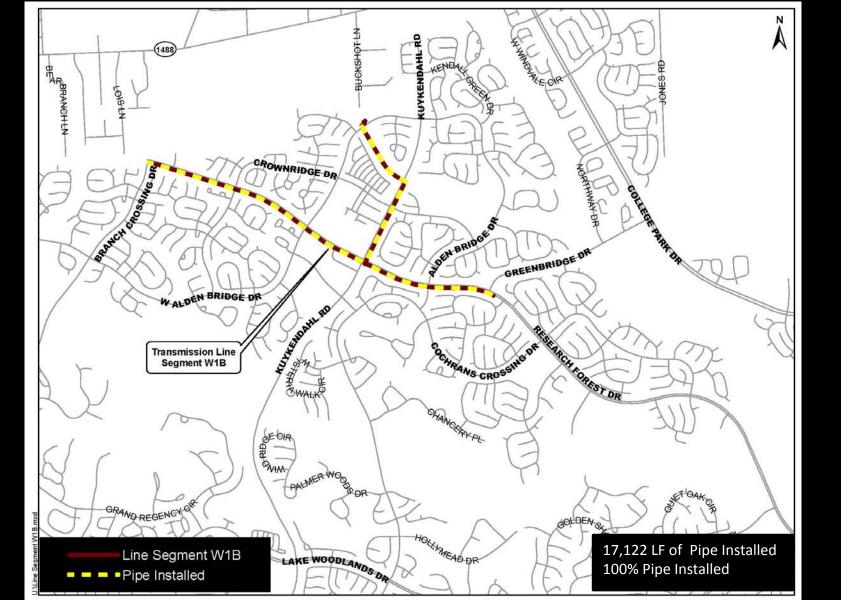
SURFACE WATER TRANSMISSION SYSTEM "W" ROUTES - PROJECT STATUS

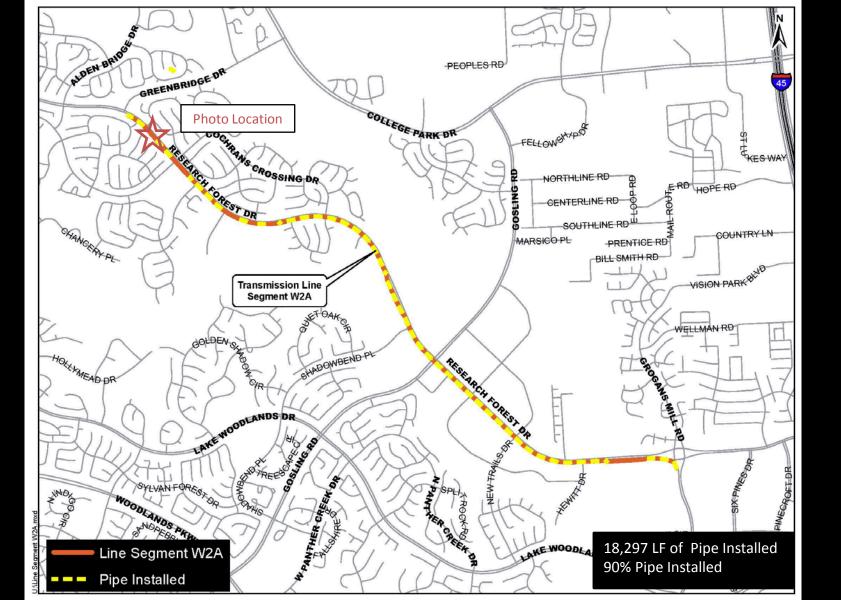
Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
W1A	87%			
W1B	91%	76%		
W2A	75%			
W2B	88%			
W3A	24%			
W3B	24%			
W4	87%			





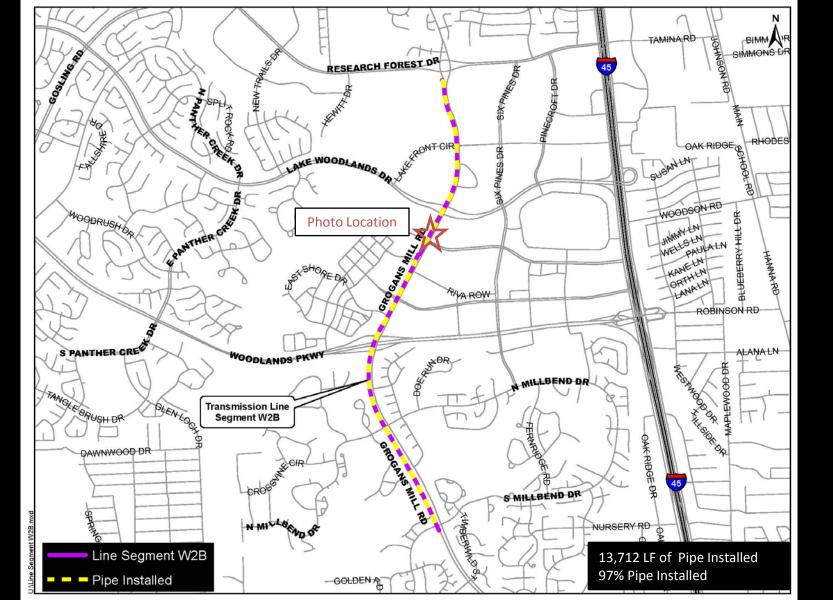
Traffic restoration along Research Forest Drive at FM 2978





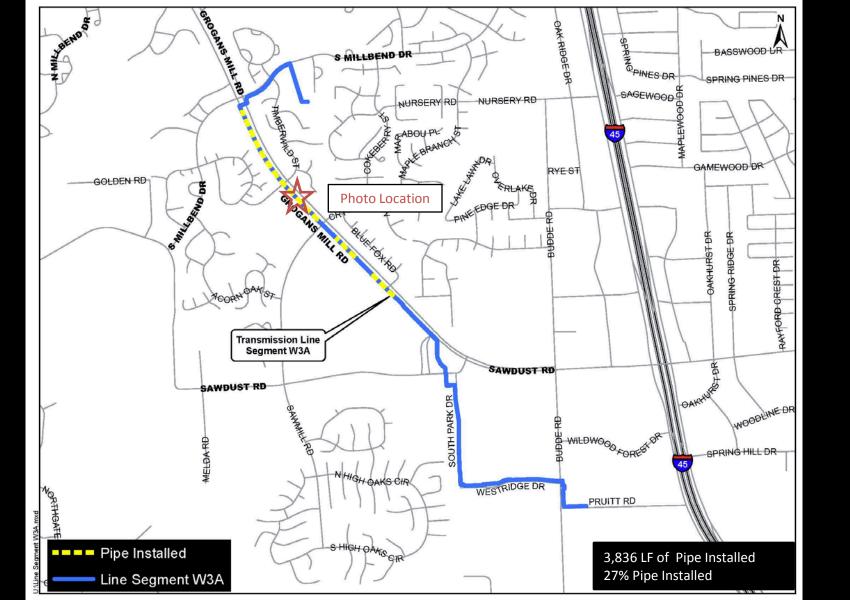


Expansion joint installation at Big Barn fault crossing



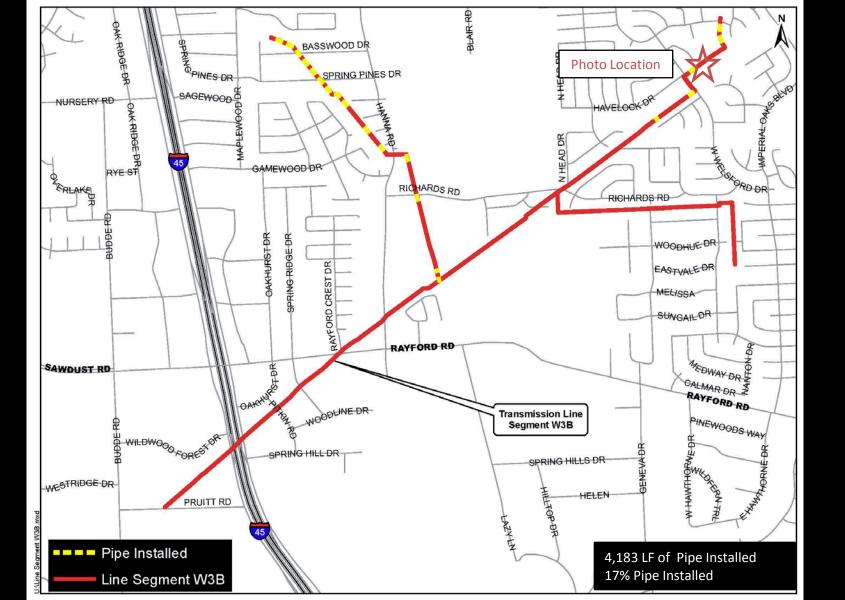


Bore Pit and Tunneling Bore Machine installation for Woodlands Waterway crossing



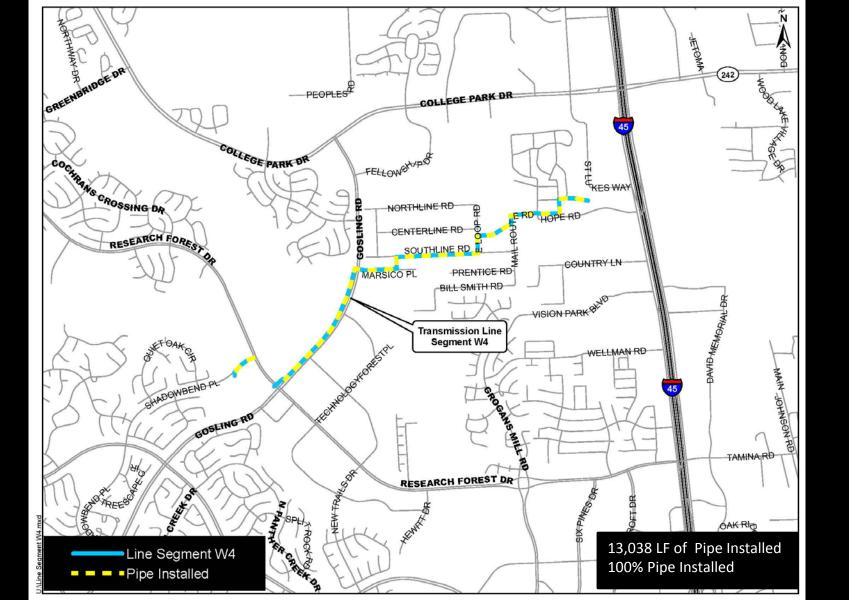


20-inch pipe installation along Grogans Mill Road





12-inch waterline installation along Montgomery County Drainage District No. 6

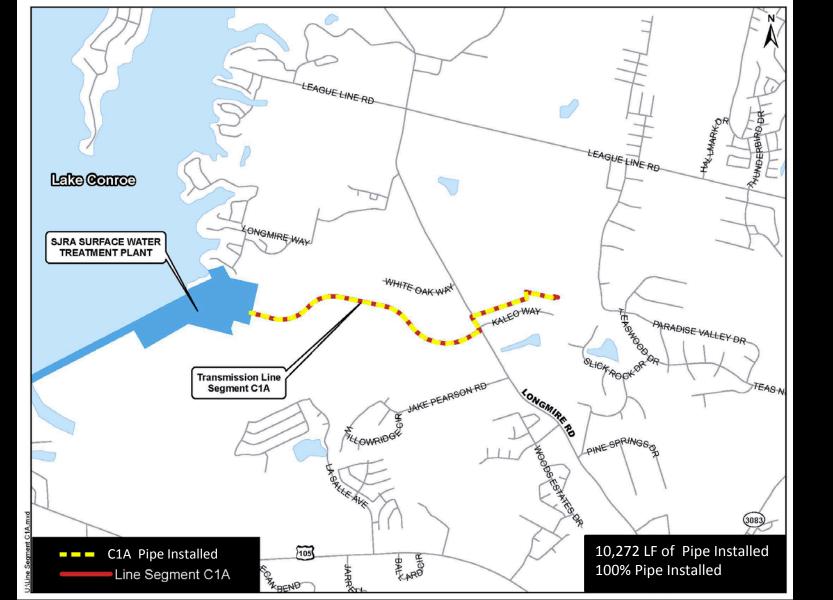


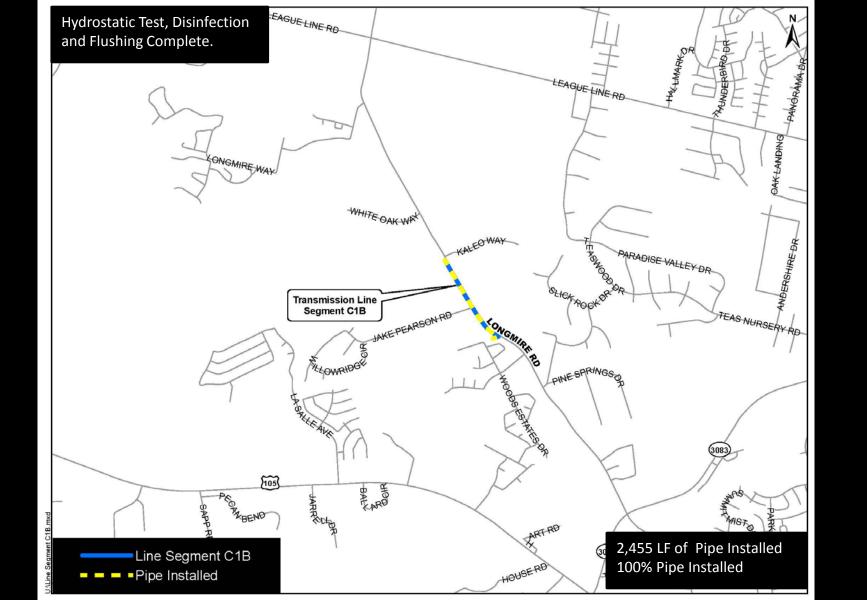
SURFACE WATER TRANSMISSION SYSTEM "C" ROUTES – FINANCIAL DATA

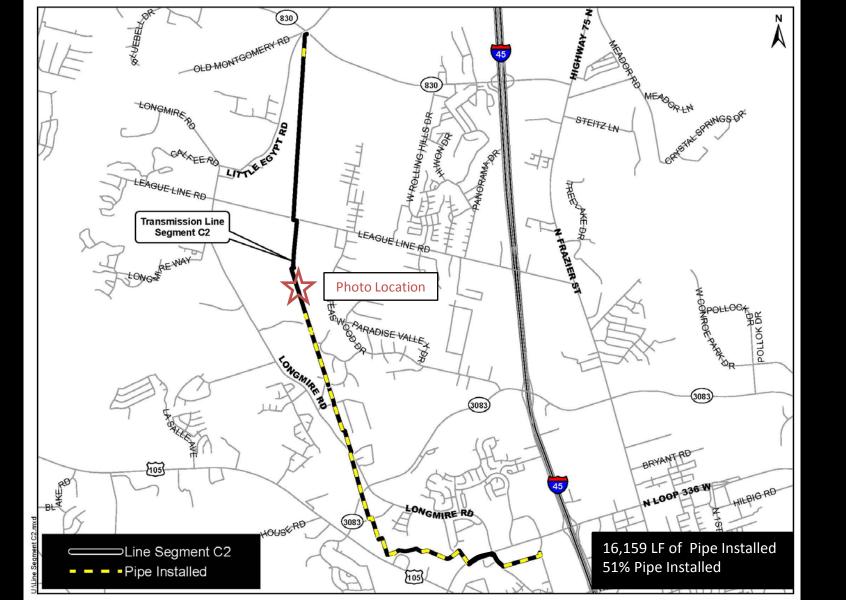


SURFACE WATER TRANSMISSION SYSTEM "C" ROUTES - PROJECT STATUS

Line	Overall % Complete	Testing % Complete	Substantial Completion	Final Completion
C1A	83%			
C1B	100%	100%	V	✓
C2	57%			
C3	70%			
C4	34%			

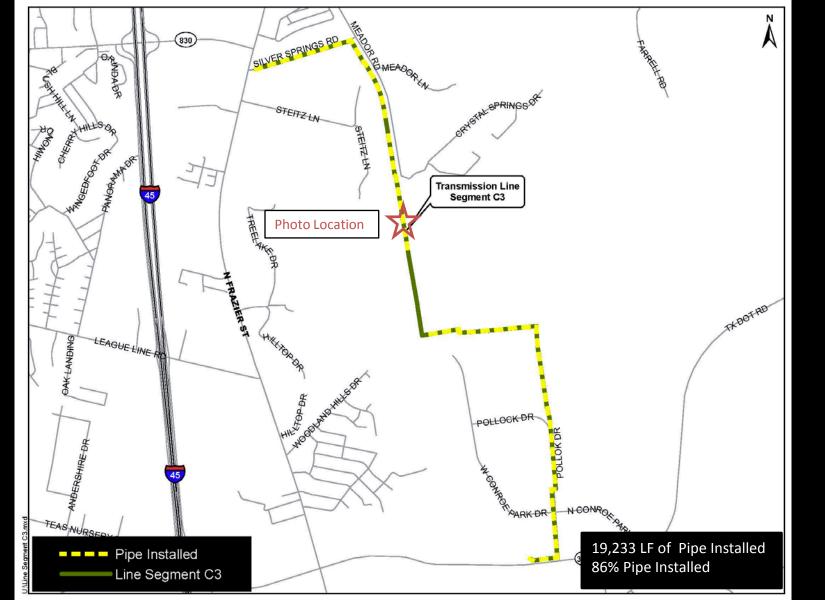






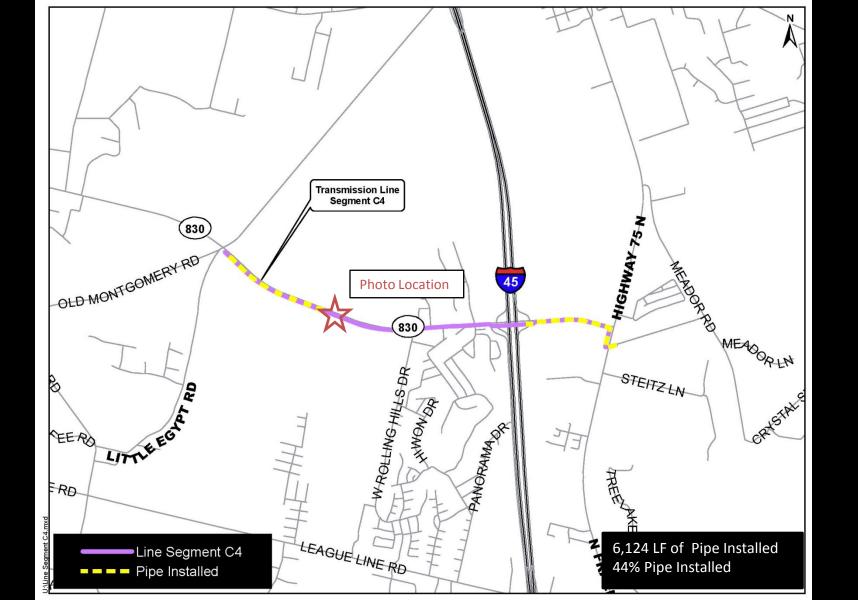


Tunnel bore pit installation along Entergy corridor





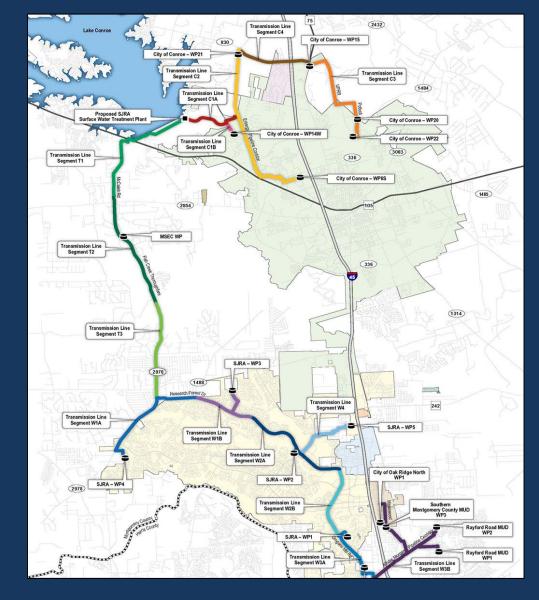
Manhole installation preparation along Silver Springs Road





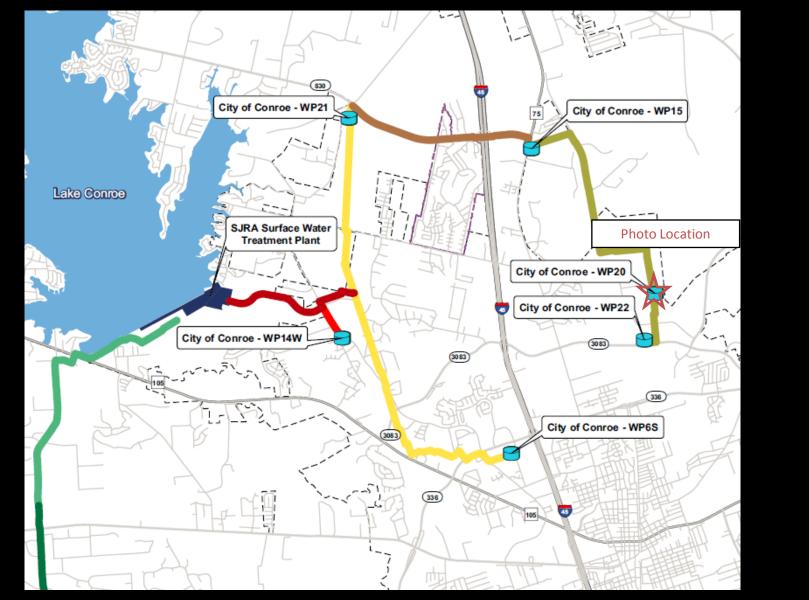
20-inch waterline installation along FM 830

SURFACE WATER RECEIVING FACILITIES CONSTRUCTION PROGRESS



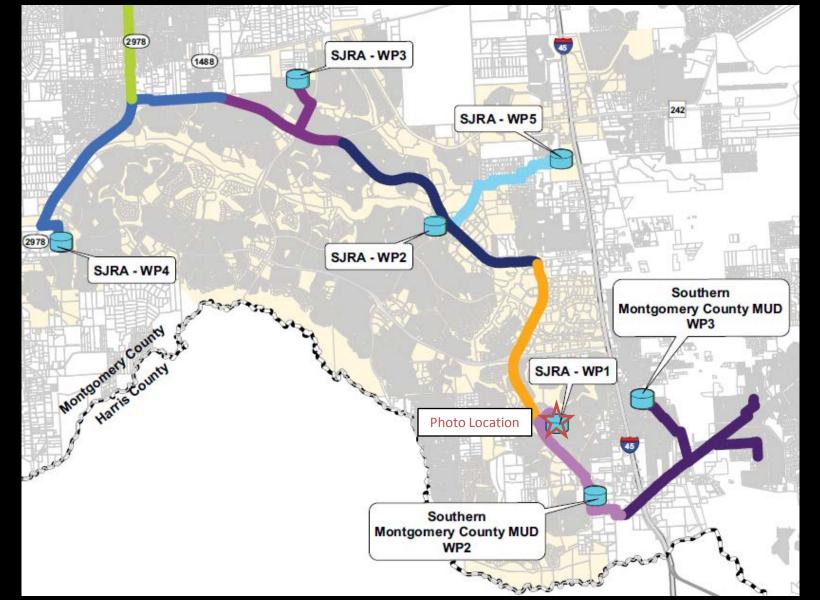
SURFACE WATER TRANSMISSION SYSTEM RECEIVING FACILITIES – FINANCIAL DATA







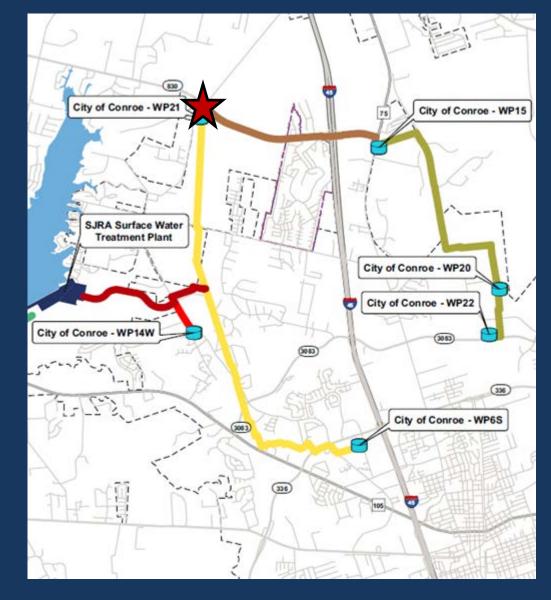
Flow Control Pressure Station assembly at Conroe Water Plant No. 20



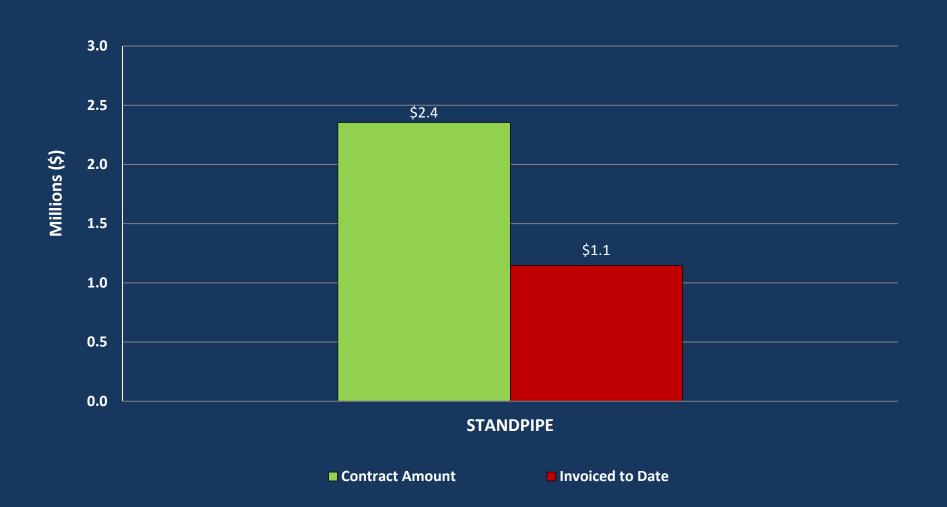


Riser pipe installation at Woodlands Water Plant No. 1

SURFACE WATER STANDPIPE CONSTRUCTION PROGRESS



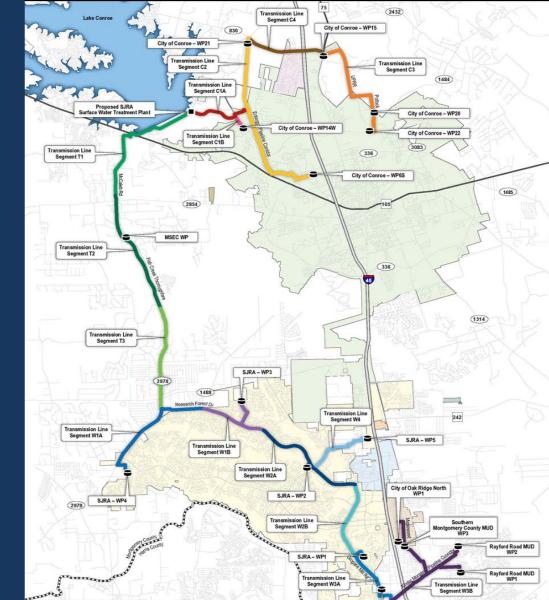
SURFACE WATER TRANSMISSION SYSTEM STANDPIPE – FINANCIAL DATA





Standpipe tank panel installation

FIBER OPTIC
COMMUNICATION
CONSTRUCTION
ADMINISTRATION



SURFACE WATER TRANSMISSION SYSTEM FIBER OPTIC—FINANCIAL DATA





Fiber Optic cable stored materials

SCADA SYSTEM PROGRAMMING AND CONFIGURATION PROGRESS



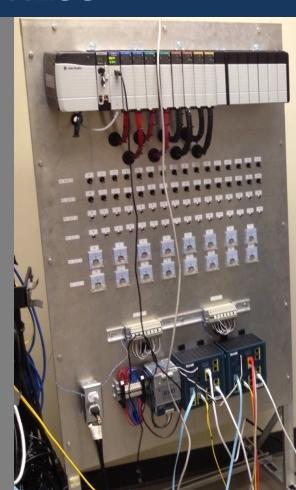
SCADA SYSTEM PROGRAMMING AND CONFIGURATION PROGRESS

PLC Programming

- Control Strategies (90%)
- "Soft" I/O Configuration (67%)

Human-Machine Interface (HMI)

- Templates (100%)
- Graphic Screens (90%)
- I/O Database (90%)
- Alarm Database (90%)
- History Database (90%)
- Reporting (5%)



Production Servers, PLCs, and Network Set Up Testing (10%)



SURFACE WATER TRANSMISSION SYSTEM CONSTRUCTION PROGRESS

QUESTIONS?

