



CITY OF HOUSTON
Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Houston Waterworks Team





Construction Progress – EWP 1 Site Development

June 5, 2019

- **Completed building subgrade for North Plant structures**
- **Passed hydrostatic pressure test, and started disinfection of 36in FWM**
- **Temporary power installation T211 North Plant**



Completed embanking and compacting Floc-Sed pad



Saw-cutting road to prep for wheel wash asphalt placement



Performed and passed hydrostatic pressure test on 36in FWM, at 150 psi for 8 hours



Started disinfection of the 36in FWM, with chlorination injection “bazooka”



North Plant Temporary Power T211 Power Conduit Directional Bore 395ft





Construction Progress – EWP 4 Raw Water Corridor

- **CLSM placement**
- **Laying 108 RW Pipe in East Corridor**
- **Welding joints**
- **Tunnel Subcontractor Demobilization**
- **Installation of South Tunnel Exit Shaft**



CLSM Placement and Native Backfill



Pipe Installation East Corridor



Exit Shaft Excavation





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

- **Flowfilling & Forming Pump Cans (Final Lift).**
- **Forming/Reinforcing Exterior Walls.**
- **Preparing base for Filter Slabs 10/11 & 8/9.**
- **Assembling BWW Pipes.**

TPS:

- **Forming/Pouring BW6 Wall.**
- **Strip Forms Wall B4**
- **Forming up Wall BW3**
- **Install Rebar for Wall BW3, and continued for walls A6, C6**
- **84" BVF's Delivery and Storage**



FILTER STRUCTURE- Flow-filling/Forming Pump Cans(Final Lift)



FILTER STRUCTURE- Forming/Reinforcing Exterior Walls



FILTER STRUCTURE- Preparing base for Filter Slabs 10/11 & 8/9



FILTER STRUCTURE- Assembling BWW Pipes



TPS- Forming/Pouring BW6 Wall



TPS- Stripping Wall B4



Tying Rebar & Forming up Wall BW3



84" BFVs Delivery and Storage



Aerial View of Filter and TPS





Construction Progress – EWP 6 North Plant

- **Subgrade prep and structural fill placement for 242 Cross Collector**
- **Set formwork and install rebar for 241 Sump**
- **Form and Pour 242 Overflow Sump**
- **Excavate 611 Cross Collector**



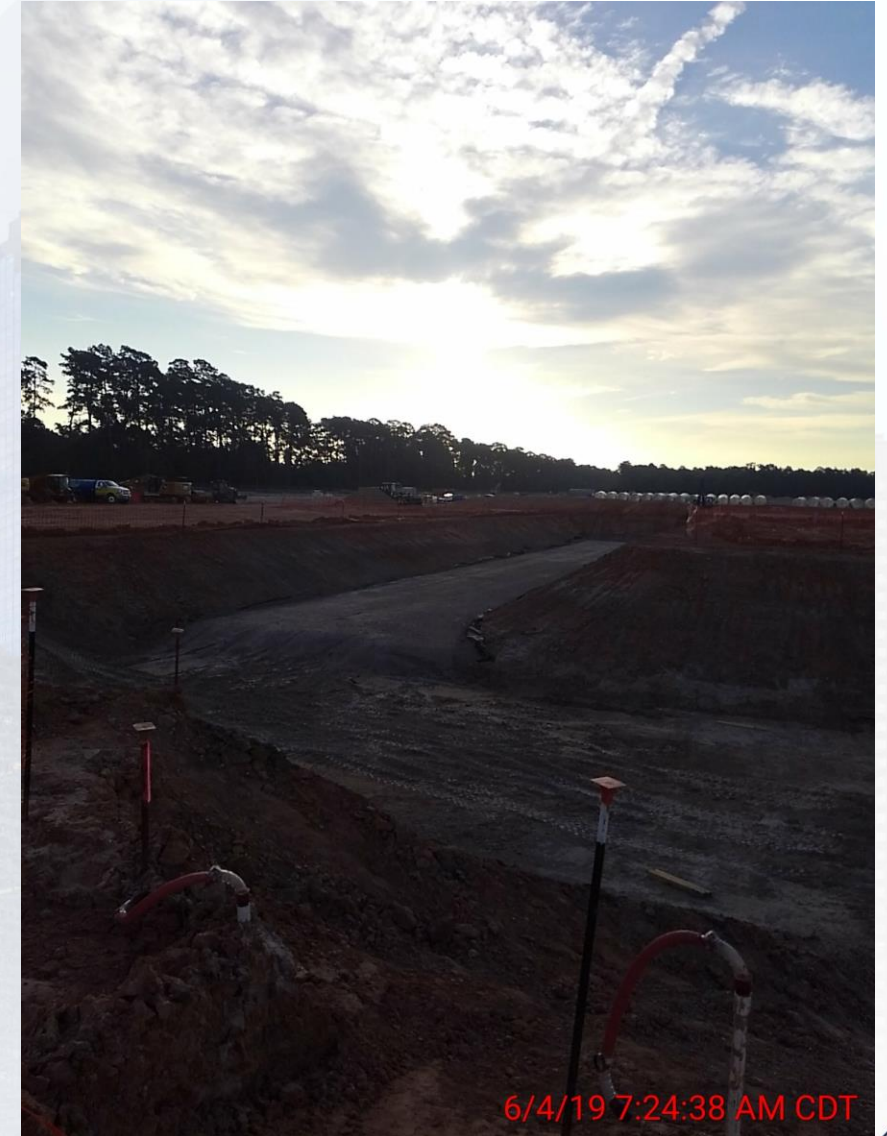
241 Sump Formwork and Rebar Placement



611 Cross Collector Excavation



242 Cross Collector and Stem Wall Excavation



242 Ductile Iron Pipe Delivery



6/4/19, 8:23 AM

Houston Waterworks Team





Construction Progress – EWP 6 IPS

- **Pile Hammer For Pile Driving**



Crane Driving Hammer for Pile Driving Activity

