



CITY OF HOUSTON
Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Houston Waterworks Team



Site-wide BBQ for over 950,000 manhours worked with no lost time due to safety incident





Construction Progress – EWP 1 Site Development

May 29, 2019

- **Building subgrade for North Plant structures**
- **Placed CTB for entrance/exit ramps for truck wheel wash**
- **Added Tees and manholes, and installing final piping of 36in FW line**
- **Temporary power installation for construction trailers**



Embanking and compacting Floc-Sed pad



Installing piping on 36in FW for construction water



Potholed existing 36in FW, installed 36in piping, and prepping to flush and hydrostatic pressure test



Wired the Truck Wheel Wash Control Panel





Construction Progress – EWP 4 Raw Water Corridor

- **Cutting pipeline excavation, CLSM placement, and installing shoring system**
- **Laying 108 RW Pipe in East Corridor**
- **Welding joints**
- **Tunnel alignment corrections**
- **Installation of South Tunnel Exit Shaft**



Trench Excavation and Pipe Installation in East Corridor



CLSM Placement



Pipe Installation



Exit Shaft Excavation





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

- **Pouring Base Slab D1A.**
- **Forming/Pouring Exterior Walls.**
- **Grading Filter Slab Area.**

TPS:

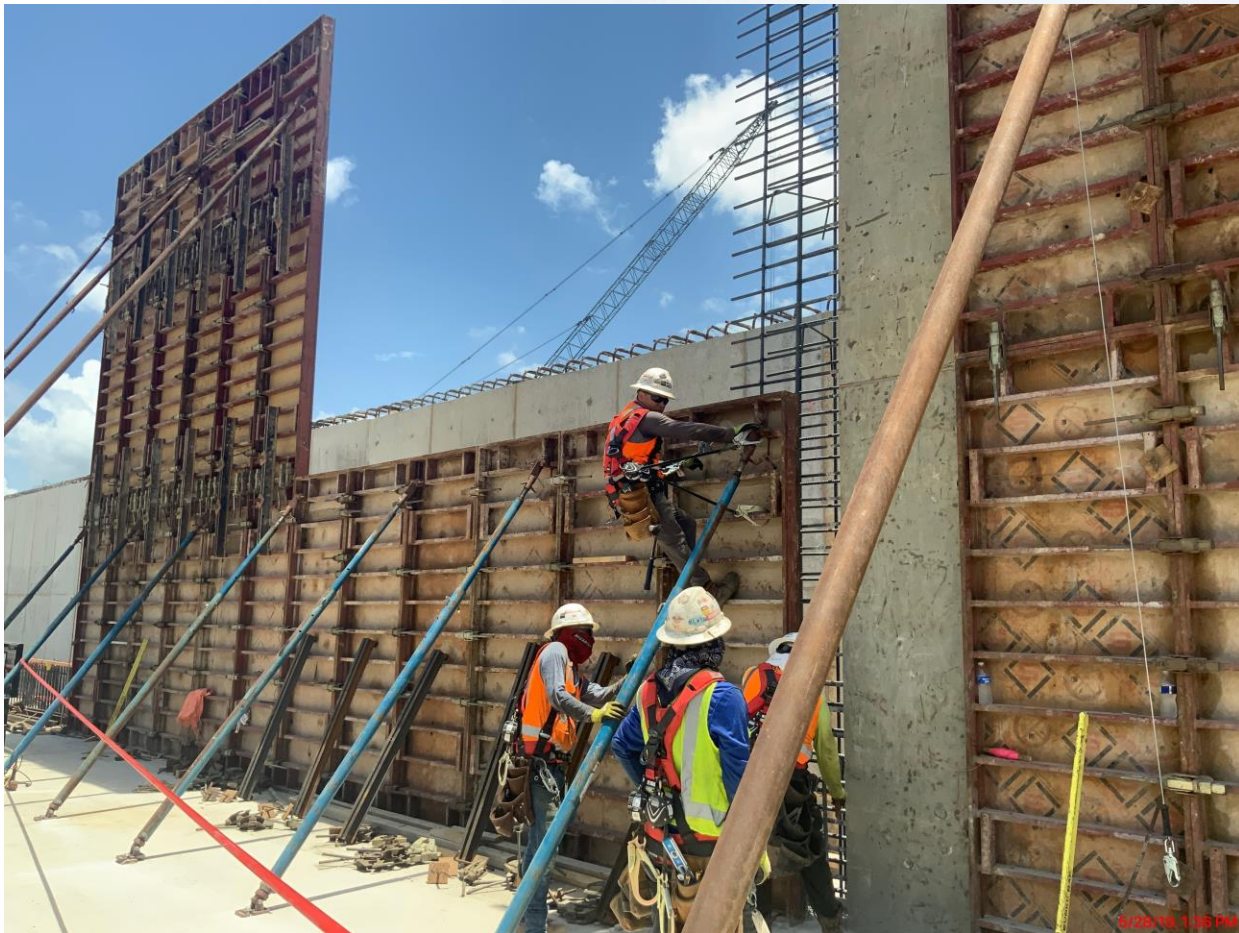
- **Forming/Pouring B4 Wall.**
- **Strip Forms Wall BW5**
- **Forming up Wall BW6**
- **Install Rebar for Walls A6, C6**



FILTER STRUCTURE- Pouring Base Slab D1A



FILTER STRUCTURE- Forming/Pouring Exterior Walls



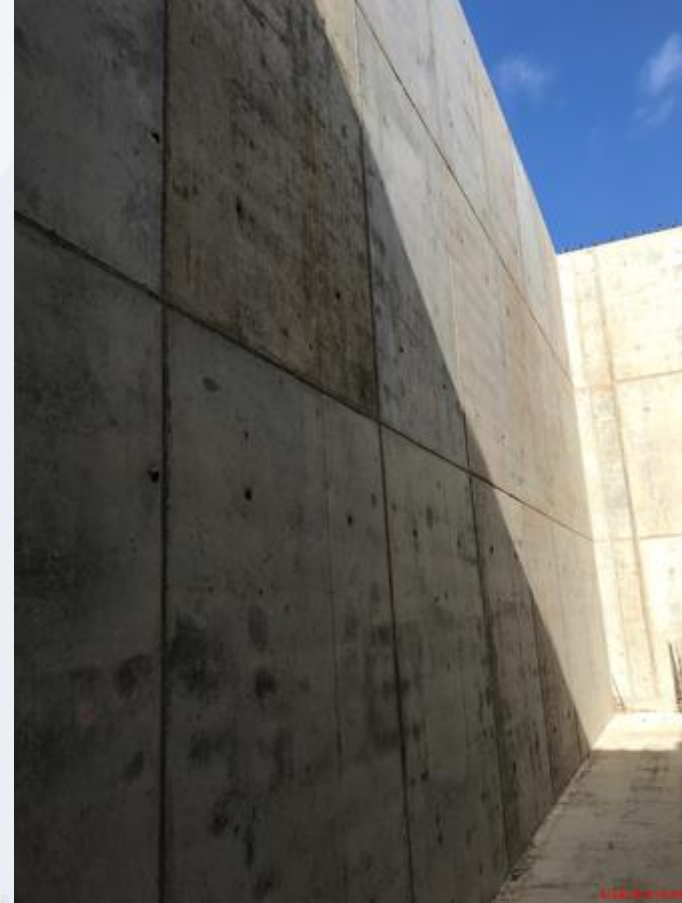
FILTER STRUCTURE- Grading Filter Slab Area



TPS- Forming/Pouring B4 Wall



TPS- Stripping Wall BW5



Forming up Wall BW6



Aerial View of Filter and TPS





Construction Progress – EWP 6 North Plant

- **Excavation and Subgrade prep for North/South Corridor between Floc Sed Basins**
- **Excavation for 242 Cross Collector**
- **Set formwork and install rebar for 242 Overflow Structure**
- **Form and Pour 241 Sump slab-on-grade**



241 Sump Formwork



Houston Waterworks Team



241 Sump Rebar and Concrete Placement



242 Overflow Sump Foundation and 60 inch pipe



242 Cross Collector Excavation





Construction Progress – EWP 6 IPS

- **Crane Assembly For Pile Driving**



Crane Assembly

