



CITY OF HOUSTON
Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Houston Waterworks Team





Construction Progress – EWP 1 Site Development

May 22, 2019

- **Building subgrade for North Plant structures**
- **Commissioned truck wheel wash system**
- **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



Commissioned wheel wash system. Placed CTB for ramps.



Temporary power installation for construction trailers





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**
- **Tunneling demobilization**
- **Installation of South Tunnel Exit Shaft**



Trench Excavation and Pipe Installation in East Corridor



Pipe Installation and CLSM Placement



Exit Shaft Excavation





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

- **Placing Rebar for Base Slab**
- **Forming/Reinforcing/Pouring Walls.**
- **Installing Wall Pipes & Manifold Drain Penetrations.**
- **Reinforcing FD Pump Cans.**

TPS:

- **Forming/Pouring BW2 Wall.**
- **Strip Forms Wall B2**
- **Forming up Wall B4**
- **Install Rebar for Walls A6, C6**



FILTER STRUCTURE- Placing Rebar for Base Slabs



FILTER STRUCTURE- Reinforcing/Forming/Pouring Walls



FILTER STRUCTURE- Installing 72" BWW pipe & Manifold Wall Penetrations



FILTER STRUCTURE- Reinforcing FD Pump Cans



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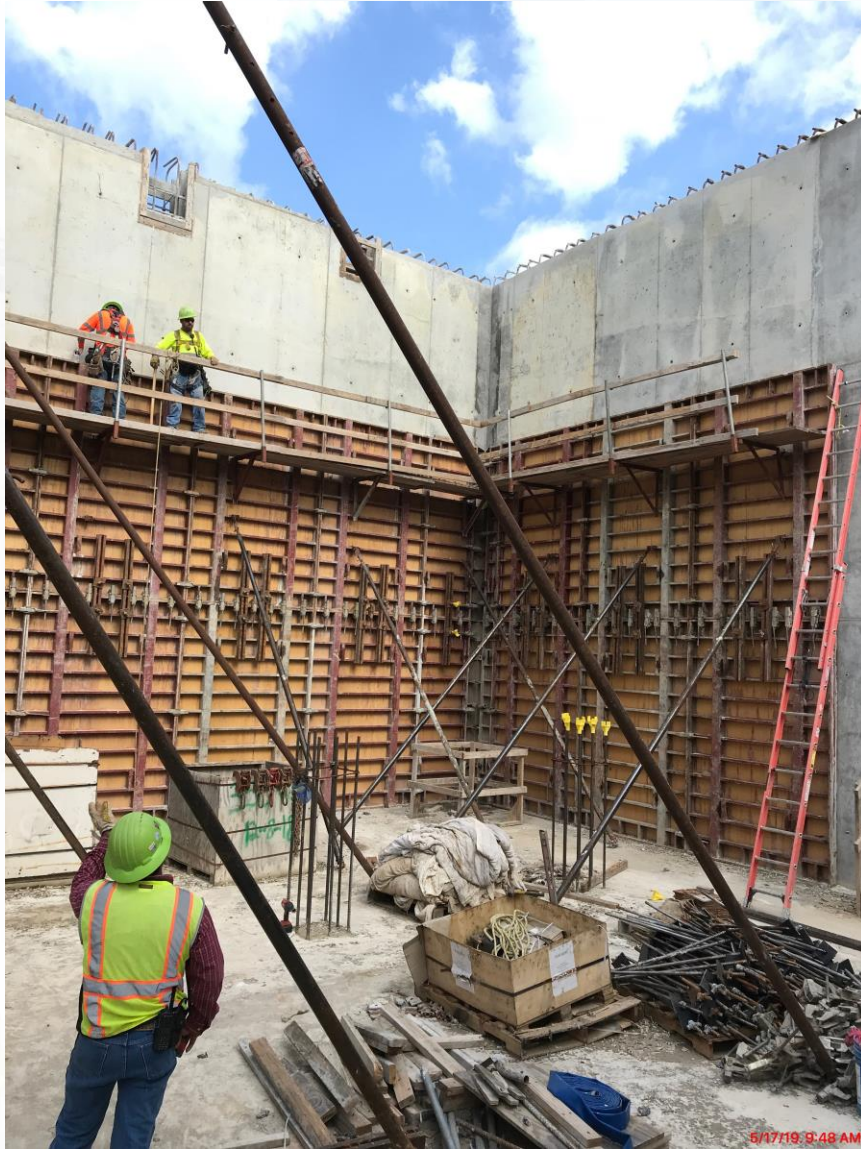
TPS- Forming/Pouring BW2 Wall



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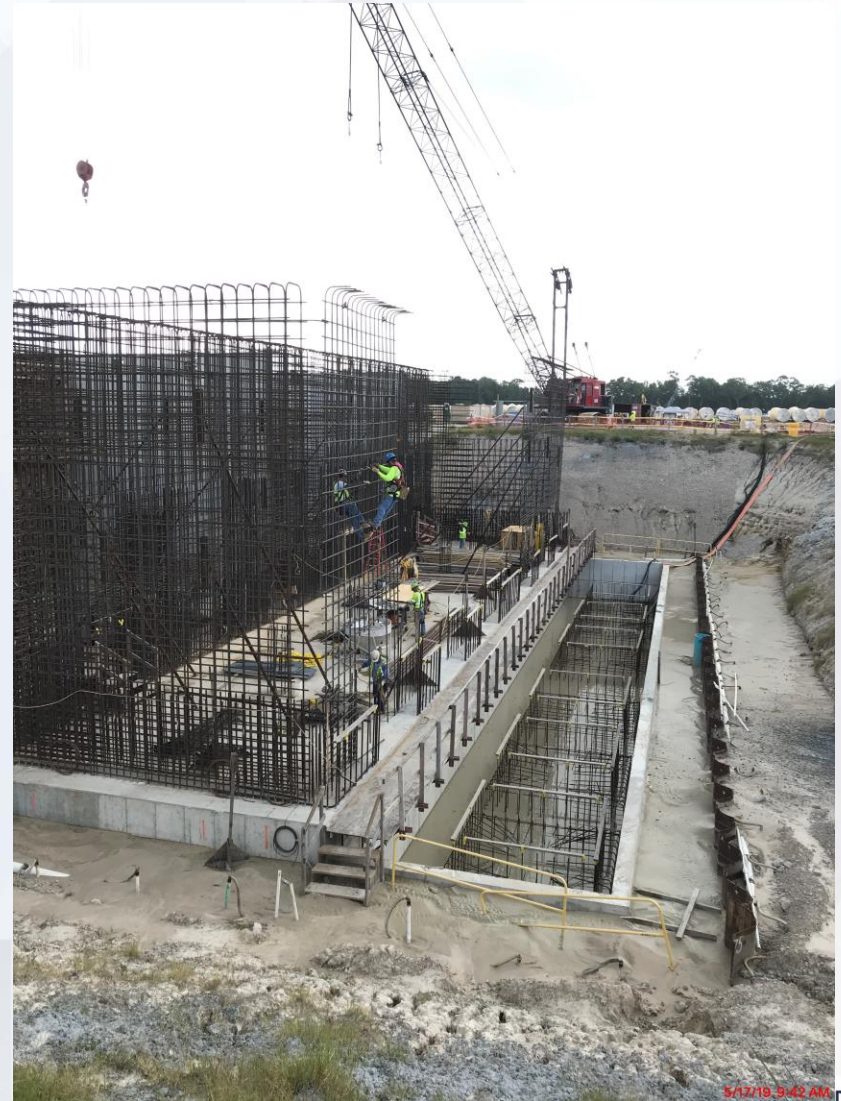
TPS- Stripping Wall B2



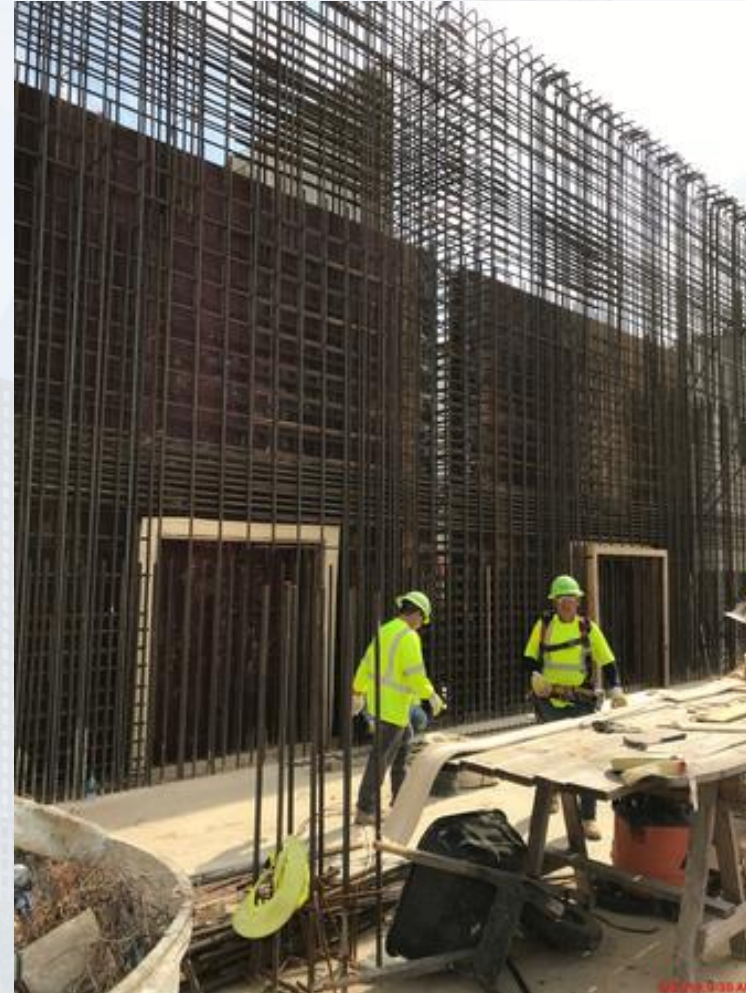
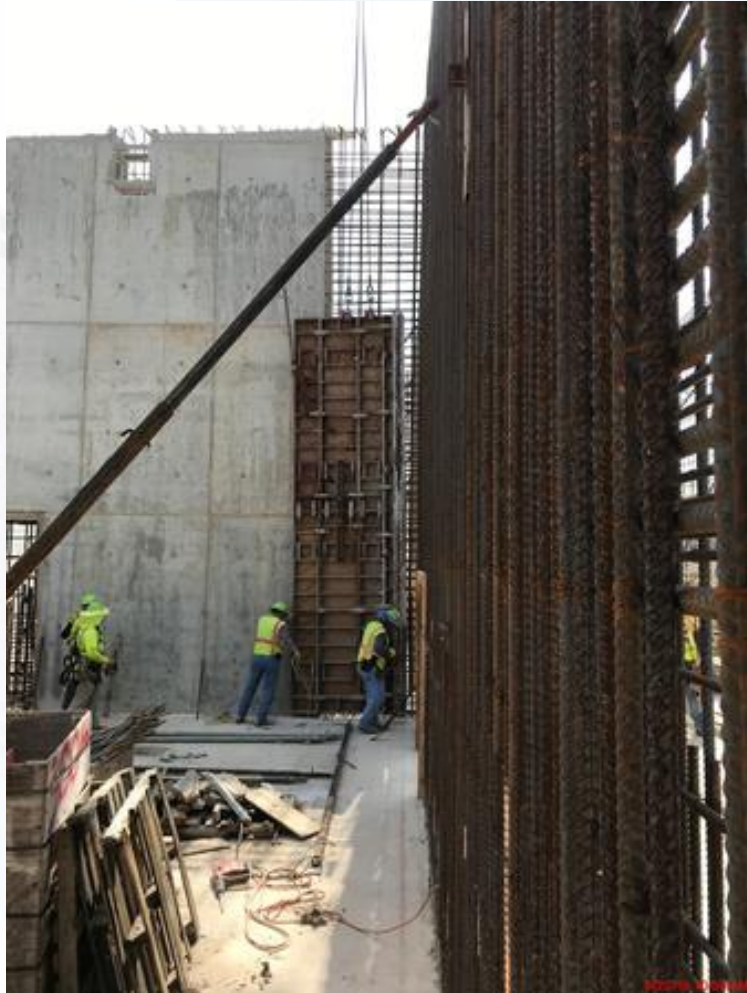
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TPS – Tying Rebar for walls A6 & C6



Forming up Wall B4



Aerial View of Filter and TPS





Construction Progress – EWP 6 North Plant

- **Excavation and Subgrade prep for North/South Corridor between Floc Sed Basins**
- **Set formwork and install rebar for 242 Overflow Structure**



Excavation for 242 Sump and Mud Mat Placement



242 Overflow Sump and Pre-tied Pipe encasement rebar





Construction Progress – EWP 6 IPS

- **Dredging Activities Cont.**



Dredging Activity Phase 1

