



CITY OF HOUSTON
Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Houston Waterworks Team





Construction Progress – EWP 1 Site Development

June 19, 2019

- **Disinfected 30in and 24in FWM**
- **Installing tapping saddles on existing 30in FWM for bypass piping**
- **Site crew installing walking path to back of IPS**
- **Temporary power installation T211 North Plant**



Drone Site Map June 1, 2019



Installing tapping saddles on 30 FWM



Site Crew placing walking path to back of IPS



North Plant Temporary Power T211 NW





Construction Progress – EWP 4 Raw Water Corridor

- **CLSM placement**
- **Laying 108 RW Pipe in East Corridor**
- **Shoring Removal and Grouting**
- **Dewatering Well Abandonment**
- **Welding joints**
- **Installation of South Tunnel Exit Shaft**



Drone Map of Entrance and Exit Shafts June 1, 2019



Placing CLSM



Pipe Installation in East Corridor



Exit Shaft Excavation





Construction Progress – EWP 2 Filter Structure & TPS

FILTER STRUCTURE:

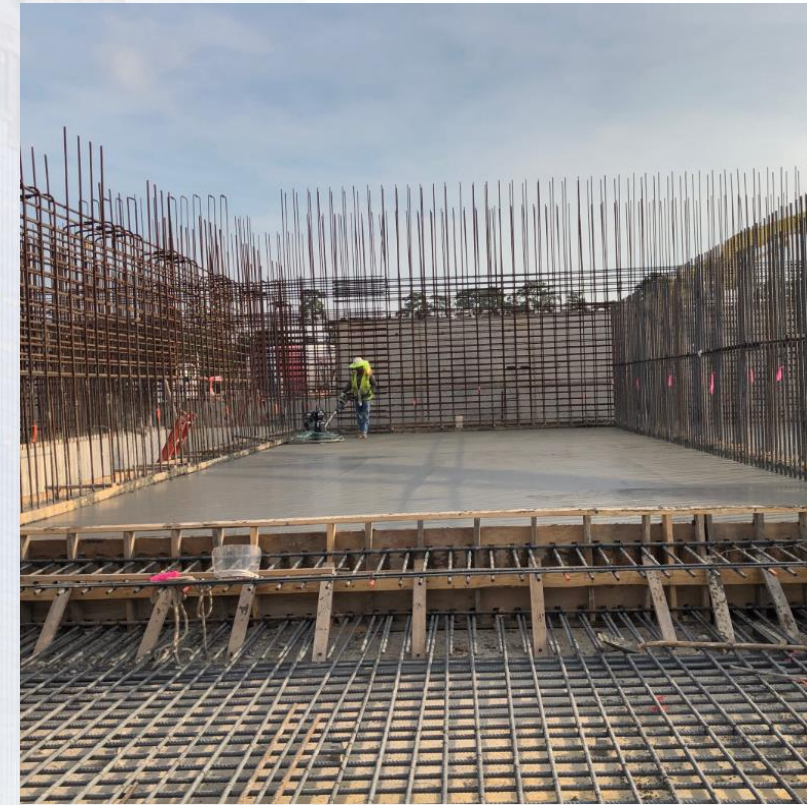
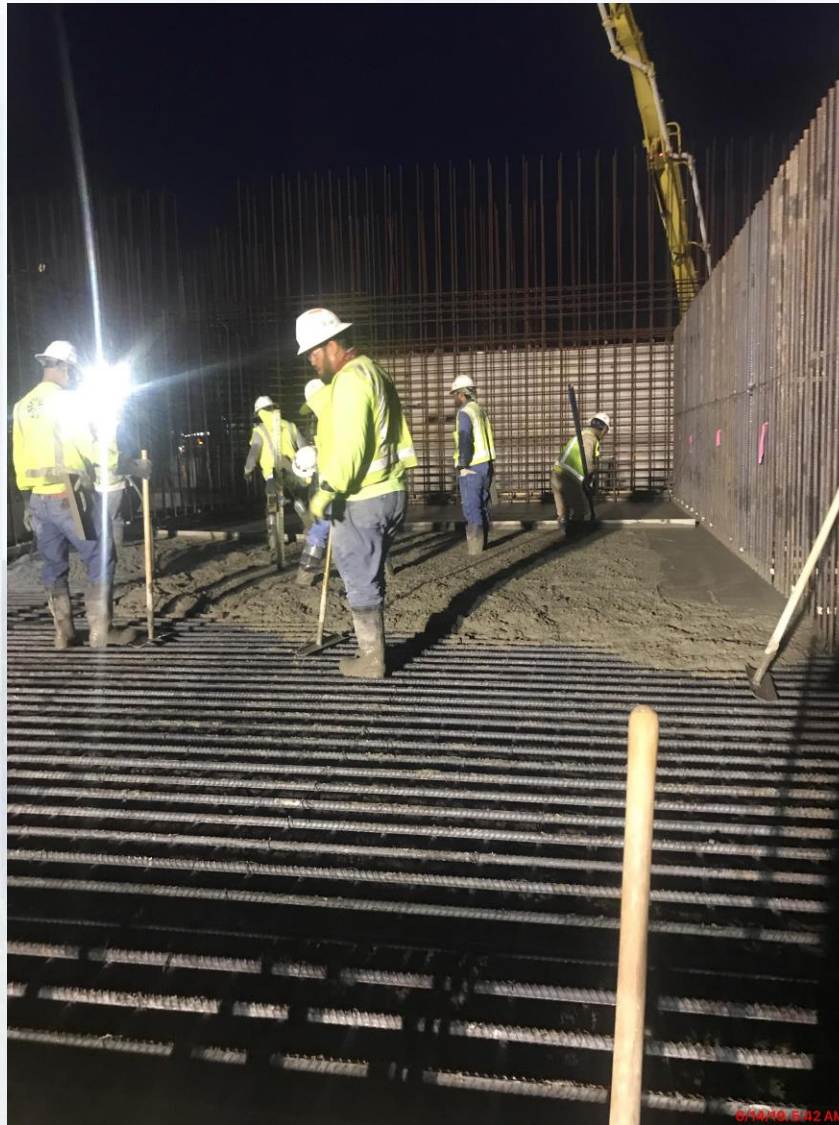
- **Pouring Filter Slabs 8/9(North) & 11**
- **Forming/Pouring C8 Exterior Walls.**
- **Set up rebar for filter Slabs 10 & 8/9(South).**

TPS:

- **Pouring BW3 Wall.**
- **Forming up Wall C4**
- **Install Rebar for Wall C4, and continued for walls A6, C6**
- **Drilling Dowels at BW4**



FILTER STRUCTURE- Pouring Filter 8/9(North) & 11 Slab



FILTER STRUCTURE- Forming/Pouring Exterior Wall C8



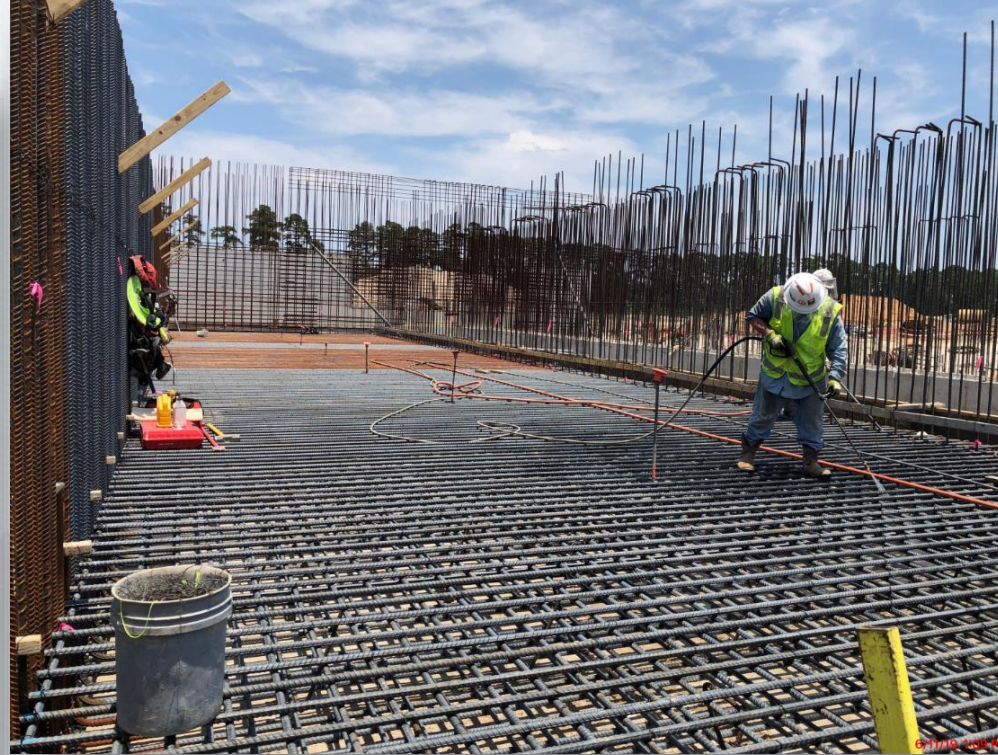
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FILTER STRUCTURE- Forming/Rebar work Exterior Wall C7



FILTER STRUCTURE- Installation of Rebar for filters 10/11 & 8/9



TPS- Pouring Concrete C4 Wall



TPS – Wall BW4 Reinforcement, Form-up, and Pour



Aerial View of Filter and TPS





Construction Progress – EWP 6 North Plant

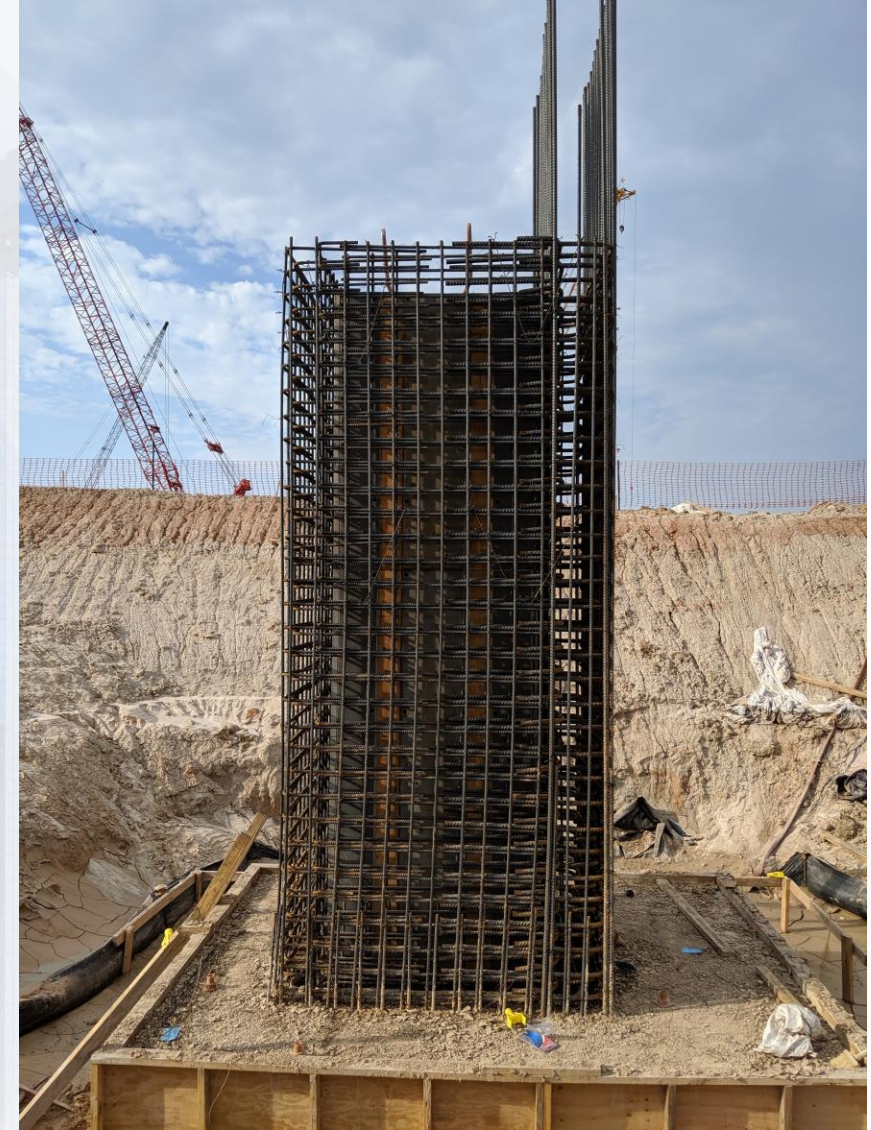
- **Subgrade prep and structural fill placement for 242 Cross Collector**
- **Set formwork and install rebar for 241 Sump**
- **Form and Pour 242 Overflow Sump**
- **Excavate 611 Cross Collector**



Drone Map of North Plant June 1, 2019



241 Rebar Placement



611 Cross Collector Excavation





242 Concrete Foundation, sump and rebar reinforcement



242 Ductile Iron Pipe Delivery



6/4/19, 8:23 AM

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Construction Progress – EWP 6 IPS

- **Surveying to set the pile template**
- **Preparing For Pile Driving Activity**
- **Setting Phase II turbidity curtain**



Drone Map of IPS June 1, 2019



Surveying to set the pile template



Setting phase II turbidity curtain



Preparing for Pile Driving Activity

