



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Sept 19, 2018

- **Hauling soils**
- **Installing fence on south property line.**
- **Installing Storm drain from Pond 3 to Jack's Ditch**
- **Installing Storm drain from Pond 2 to Jack's Ditch**
- **Installing light poles with fixtures and conduit in craft parking lot and along Road 1**
- **Welding and pressure testing 20" Tap to 66" RW Main**





# Aerial View Map of Site Sep 12, 2018





# Installing Storm Drain from Pond 3 to Jack's Ditch





# Trenching and installing wire to light poles





# Installing Storm Drain from Pond 2 to Jack's Ditch





# Exposed, UT Tested, and welded collar and 20" nozzle on 66in RW Main





# Installed 20" Valve & Pressure Tested







# Construction Progress – EWP 4 – Raw Water Corridor

- **Maintaining dewatering system**
- **Cutting pipeline excavation, and installing shoring system**
- **Installing fence in East corridor**
- **Installing dewatering system in East corridor**
- **Installing tunnel shield and tunneling**
- **Laying 108” Pipe**
- **Pouring CLSM**





# Aerial View of 108in Pipe Trench Sep 12, 2018





# Lifting and Laying 108" RW Pipe Joints





# Pouring CLSM





# Installing Tunnel Shield and Line Plate in Shaft







# Construction Progress – EWP 2 Filter Structure & TPS

- **Installing formwork for base manifold slabs**
- **Tying rebar for base manifold slabs**
- **Poured base manifold slab**
- **Tying rebar for pump can slab**
- **Poured pump can slab**
- **Stripping formwork**



# Setting up wall forms





# Forming TPS Pump Can Walls (1<sup>st</sup> Section)



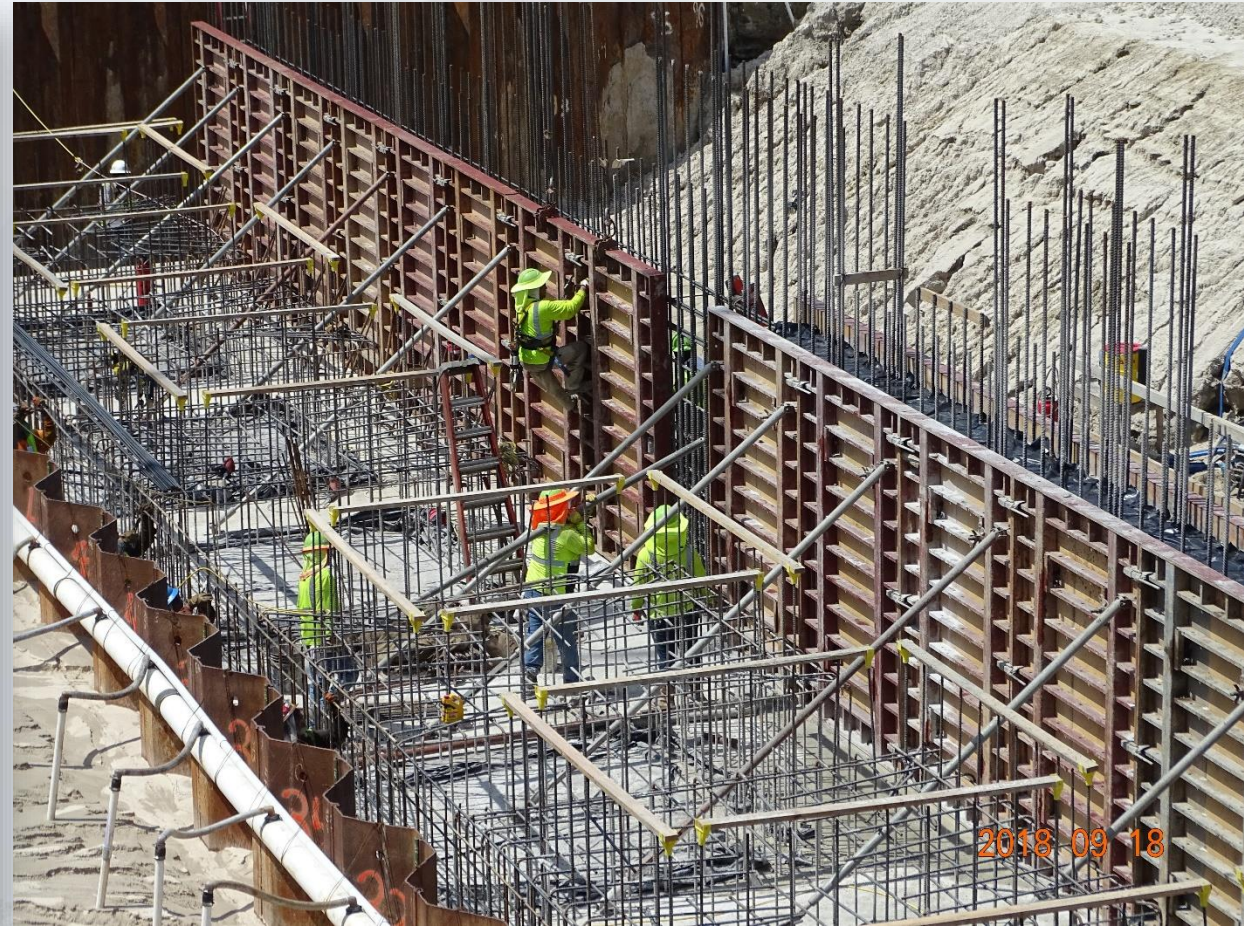


# Pouring TPS Pump Can Walls (1<sup>st</sup> Section)





# Installing Retaining Wall dowels, and Forming Walls (2<sup>nd</sup> Section)







# Construction Progress – EWP 6

- **Re-striking test piles at 14 days**





# Re-striking the Test Piles at Lake Houston





# Completed 14 Day Re-strike





