



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Mar 20, 2019

- **Preparing for 36in FW Pipe Tie-ins**
- **Placed second lift of asphalt on Road 1**
- **Building subgrade for North Plant structures**
- **Demolishing existing 20in RW line.**
- **Installing truck wheel wash**





# Importing/compacting lifts of structural fill subgrade for North Plant pads





# Building subgrade for North Plant structures



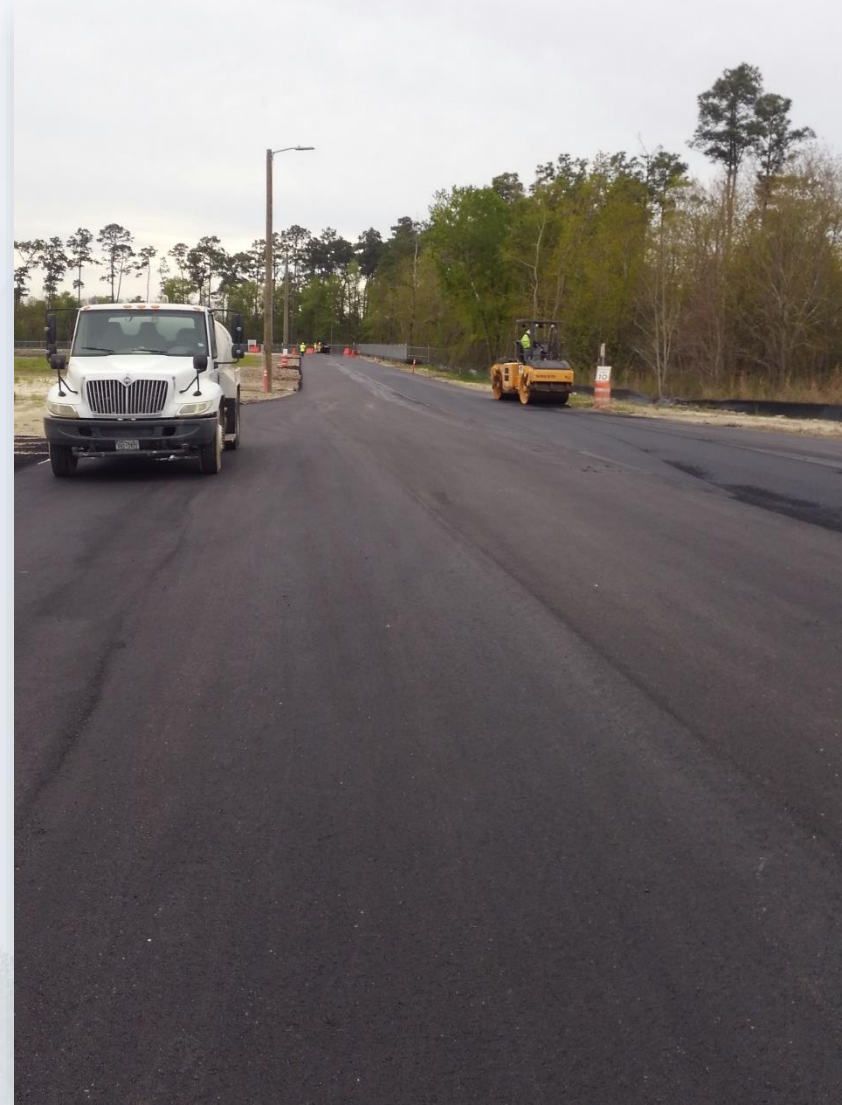


# Placing 2<sup>nd</sup> lift of asphalt





# Placing 2<sup>nd</sup> lift of asphalt





# Installing and backfilling the truck wheel wash





# Demolishing existing 20in RW Line







# Construction Progress – EWP 4 – Raw Water Corridor

- **Cutting pipeline excavation, and installing shoring system**
- **Delivering 108in Pipe Joints**
- **Laying 108in Pipe, & tack welding joints**
- **Placing CLSM & backfilling**
- **Tunneling operation**





# Installing shoring system and laying pipe





# Auger bore operation and pushing casing

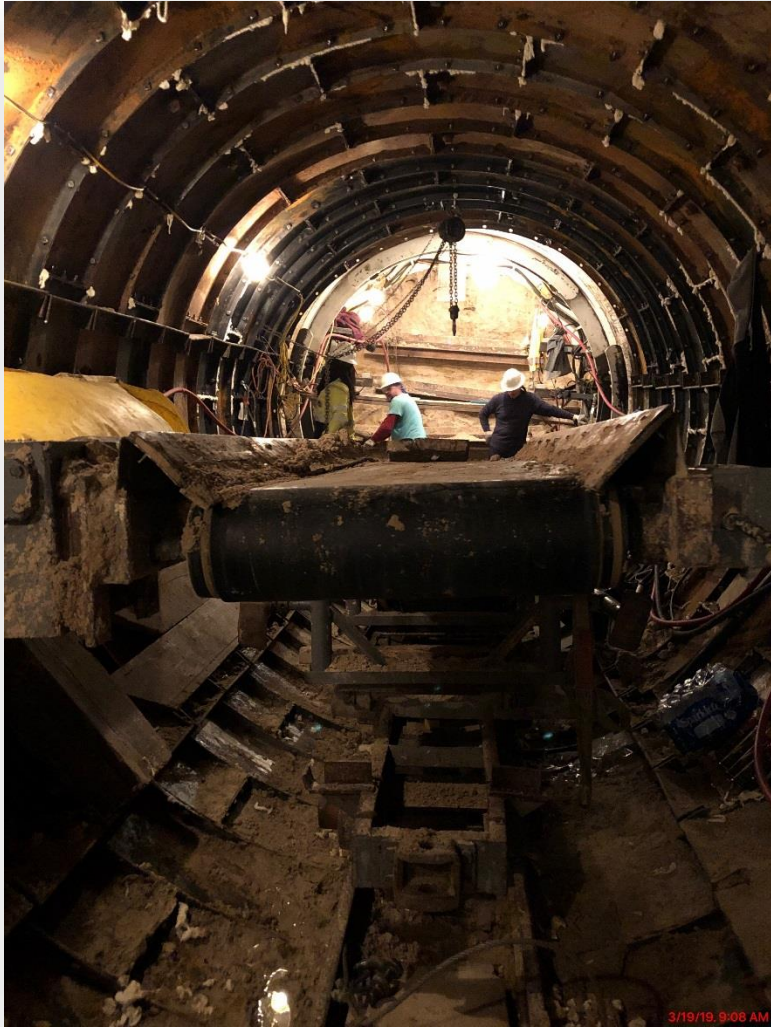


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# Tunneling operation







# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- Reinforcing/Forming walls
- Pouring walls
- Placing and aligning pipelines.
- Sheet piling for Pump Can Excavation.

## **TPS:**

- Forming and reinforcing wall sections.
- Stripping wall sections.





# FILTER STRUCTURE- Reinforcing/Forming walls





# FILTER STRUCTURE- Pouring walls





# FILTER STRUCTURE- Pipe Aligning & Welding



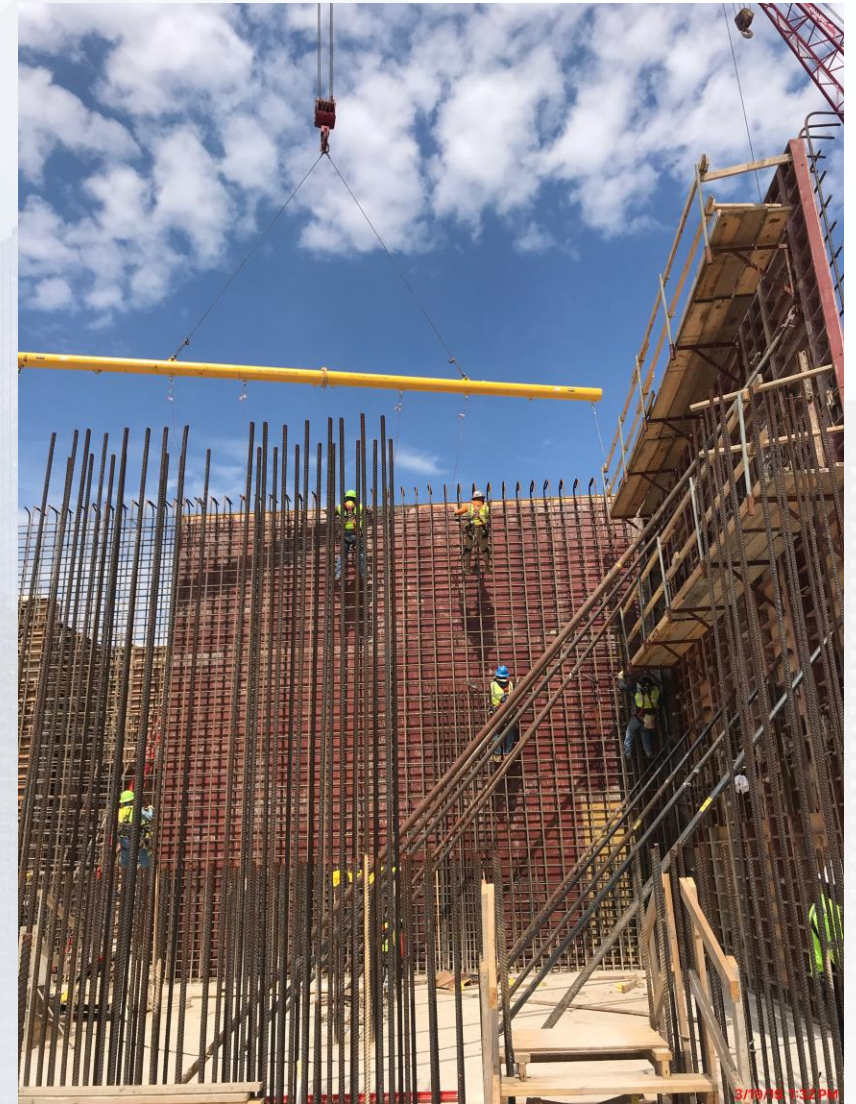


# FILTER STRUCTURE- Sheet Piling for Pump Can Excavation





# TPS- Forming & tying Wall Rebar





# TPS- Stripping Wall







# Construction Progress – EWP 6 – Intake Pump Station

- **Preparing for temporary bulkhead installation**
- **Setting up vibration hammer for temporary bulkhead**





# Vibration hammer setup for temporary bulkhead

