




**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Mar 13, 2019

- **Preparing for 36in FW Pipe Tie-ins**
- **Completed placing CTB on Road 3**
- **Building subgrade for North Plant structures**
- **Prepping for second lift of asphalt placement.**





# Exporting excavated unsuitable soils





# Completed placing CTB on Road 3







# Construction Progress – EWP 4 – Raw Water Corridor

- **Cutting pipeline excavation, and installing shoring system**
- **Tunneling in shaft**
- **Delivering 108in Pipe Joints**
- **Laying 108in Pipe, & Backfilling**
- **Placing CLSM**
- **Tack Welding joints**



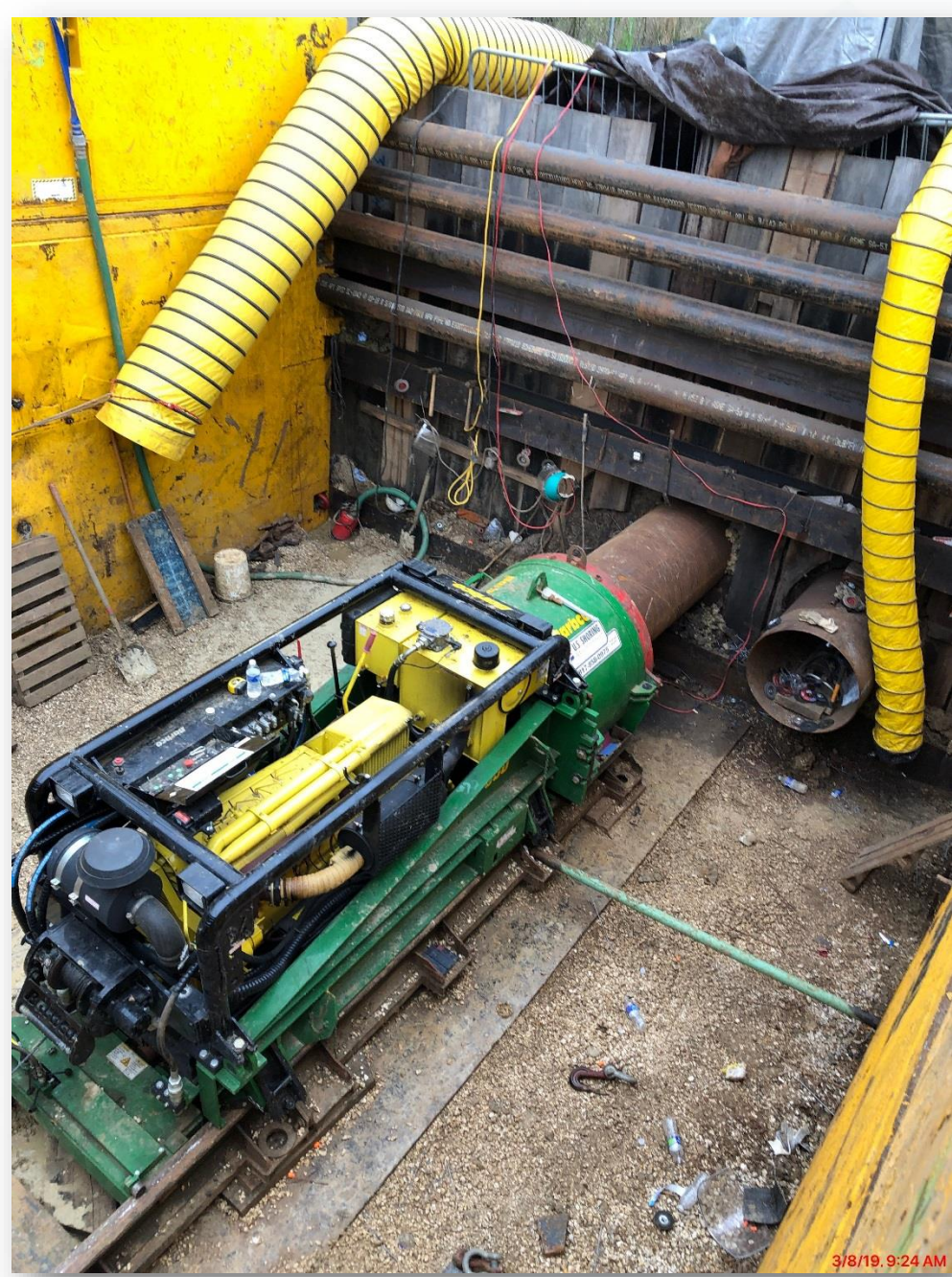


# Placing CLSM and backfilling pipe trench





# Auger bore operation and pushing casing







# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- Reinforcing/Forming walls
- Tying & Forming Pipe encasement.
- Pouring pipe encasement.
- Placing and aligning pipelines.

## **TPS:**

- Forming and reinforcing wall sections
- Stripping Wall Sections





# Filter Structure- Laying west CFE & FTW Pipeline





# Filter Structure- Installing Couplings & welding.





# Filter Structure- Pipe Encasement Rebar, Formwork & Pouring





# TPS – Wall B1 Forming and Pouring Concrete





# TPS – Wall C1 Stripping Forms





# TPS – Walls & Beams Reinforcement







# Construction Progress – EWP 6 – Intake Pump Station

- **Preparing for CTB for IPS Road**
- **Import and compacting CTB for IPS road**
- **Preparing for crane for temporary bulkhead**



# Preparing Site for Structural Fill for IPS pads





# Importing/Compacting Lifts of Structural fill subgrade for IPS Pads





# Mobilizing Crane



2019 03 11



# Building Crane For Temporary Bulkhead

