



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Feb 6, 2019

- **Excavating and laying 36in FW Pipeline**
- **Setting the FW Pipeline Manways and Manholes**
- **Embanking and grading South Areas E & F**
- **Stabilizing, laying fabric and flex base for Barnard Laydown area.**
- **Prepping road 1 for asphalt paving**





# Stabilizing/mixing subgrade for Barnard Laydown Pad





# Filling and grading Areas E & F





# Excavating & Installing 36in FW Pipeline







# 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**





# Transporting 108in RW Pipe Joints





# Excavating & Laying 108in RW Pipe





# Tack welding 108in Pipe Joints



Houston Waterworks Team





# Grouting activities at pipe trench







# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- Reinforcing/Forming walls
- Pouring walls
- Placing and aligning pipelines.
- Stripping forms and patching.
- Excavation and backfilling around structures

## **TPS:**

- Forming and reinforcing wall sections





# Mud mat for West Pipe Encasement, & Stripping forms from West IC Vault Walls





# Installing water stop and reinforcing wall B4, First Lift





# Repairing Pipe Coating, and Installing PVC Sanitary Drain Pipe





# Pouring Pipe Bellies and Setting 36in FTW Spool at Bypass Vault





# Tying rebar mats for A2A Foundation Slab









# TPS Wall A1 Reinforcement





# Forming TPS Wall A1





# Forming TPS Wall A1





