



**CITY OF HOUSTON**  
Houston Public Works

# DESIGN-BUILD SERVICES

# Northeast Water Purification Plant Expansion

**Houston Waterworks Team**





# Construction Progress – EWP 1 Site Development

## Dec 12, 2018

- **Embanking and compacting south area of site.**
- **Excavating and laying 36in FW Pipeline**
- **Installing fence along east site boundary**
- **Embanking and grading East Areas C & F**
- **Unloaded Finished Water line precast manholes**





# Embanking and grading Areas C & F





# Hanging fence at North East Corner





# Backfilling and compacting 36in FW Pipe





# Unloading FW Line Precast Manholes







# Construction Progress – EWP 4 – Raw Water Corridor

- **Cutting pipeline excavation, and installing shoring system**
- **Tunneling in shaft**
- **Excavating shaft in East Corridor**
- **Laying 108” Pipe, & Backfilling**
- **Excavating Exit Shaft in East Corridor**
- **Placing CLSM**





# 108in Pipe Delivery





# Laying and tack welding the 108in Pipe





# Auger Bore Casing Fit-up







# Construction Progress – EWP 2 Filter Structure & TPS

## **FILTER STRUCTURE:**

- Reinforcing/Forming walls
- Pouring walls
- Placing and aligning pipelines.
- Stripping forms and patching.

## **TPS:**

- Tying Rebar for main slab areas A6 & B1.
- Poured Slab Area C1





# Pouring Walls C3, B20, & B15,17 First Lift





# Backfilling/Compacting around Bypass Vault



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# Installing 96in OZW Pipe in Inlet Box (West)





# Welding 84in CFE



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# Tying Filter Wall Rebar





# Prepping and Pouring Sanitary Drain Pump Station Slab (West)





# Concrete placement and curing of TPS Slab Area C1





# TPS Slab Area C6 & B1 Reinforcement





# Repairing Foundation & backfilling TPS Slab Area A6

