

CITY OF HOUSTON Houston Public Works

DESIGN-BUILD SERVICES

Northeast Water Purification Plant Expansion

Mar 11, 2020



Drone Site Map: Mar 3, 2020



Construction Progress – EWP 1/3 & 6 Site Development

DCN-04/Pond 1 Expansion - J. Simmons Group:

Installed drainage swale

DCN-04/Pond 1 – Installed swale along access road 1



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Construction Progress – Site Electrical

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- Main Fiber Duct Bank Installation at 101 in Existing Plant
- Duct Bank Installation at 080 Admin Building
- Fiber Duct Bank Installation at 311

Building 111 Progress



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Main Fiber Ductbank Installation at 101 in Existing Plant



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Duct Bank Installation at 080 – Admin Building



Fiber Duct Bank Installation at 311



Construction Progress – EWP4 Raw Water Corridor

- Removing shoring at STA 128+50
- Setting ARV's near STA 142+50
- Preparing to place ARV's near STA 134

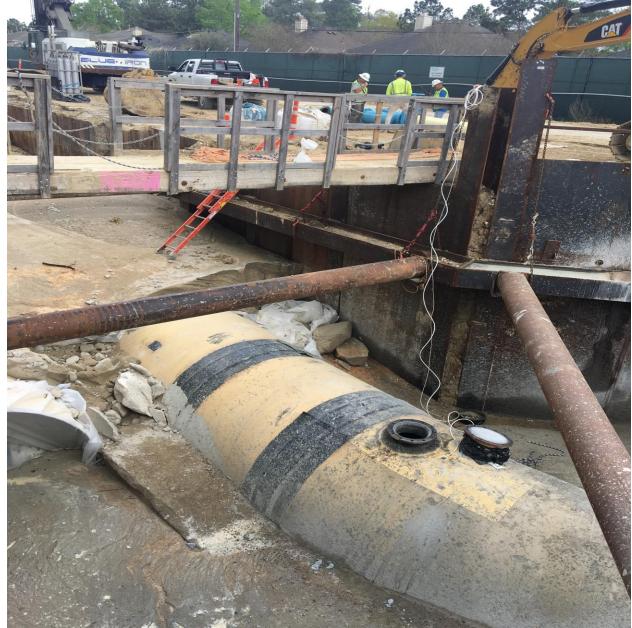
Removing shoring at STA 128+50



Setting ARV's Near Sta 142+50



Preparing to place ARV's near STA 134



Construction Progress – Central Plant

281-FILTER MODULE 1 :

- Stripping Gallery Deck, Area D.
- Backfilling Filter Slab 4&5 Area.
- Pouring Walls.
- Forming/Reinforcing Walls.
- Reinforcing/Pouring Filter 6 Slab.
- Backfilling outside Filter Building. 291-TRANSFER PUMP STATION 1:
- Poured CLSM under Overflow Channel
- Top Dack Shoring over Wet Well

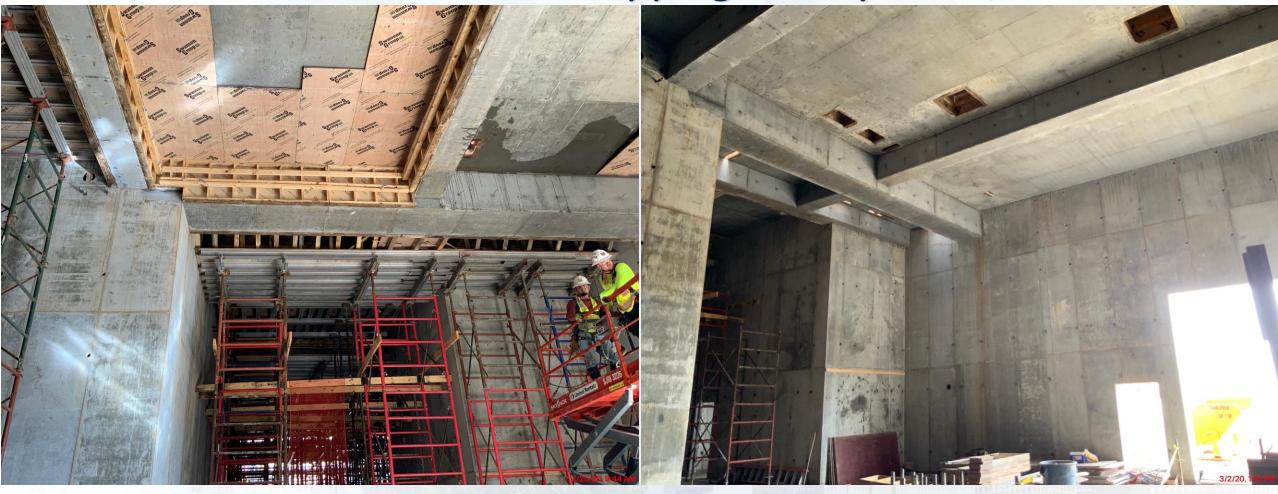
311-POST CHEMICAL FACILITY 1 SH/CS :

- Trenching for Underslab Electrical Conduit.
- Staking stub ups.
- Removal of existing 20" C900 pipe.
- Installation of Underslab Electrical Conduit.
 282 -FILTER MODULE 2:
- Tower Crane erection.
- Setting FD Pump Cans.
- Laying West Under-Slab 36" FTW.

292-TRANSFER PUMP STATION 2:

- Driving Sheet Piles
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281-FILTER MODULE- Stripping Gallery Deck, Area D



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281-FILTER MODULE- Backfilling Filter 4&5 Area





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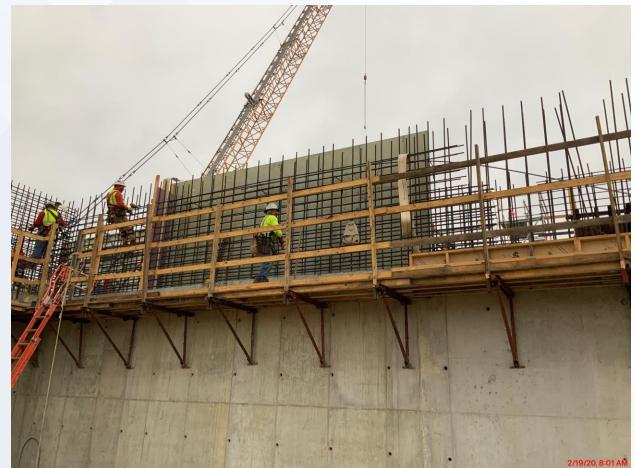
281-FILTER MODULE-Pouring Walls





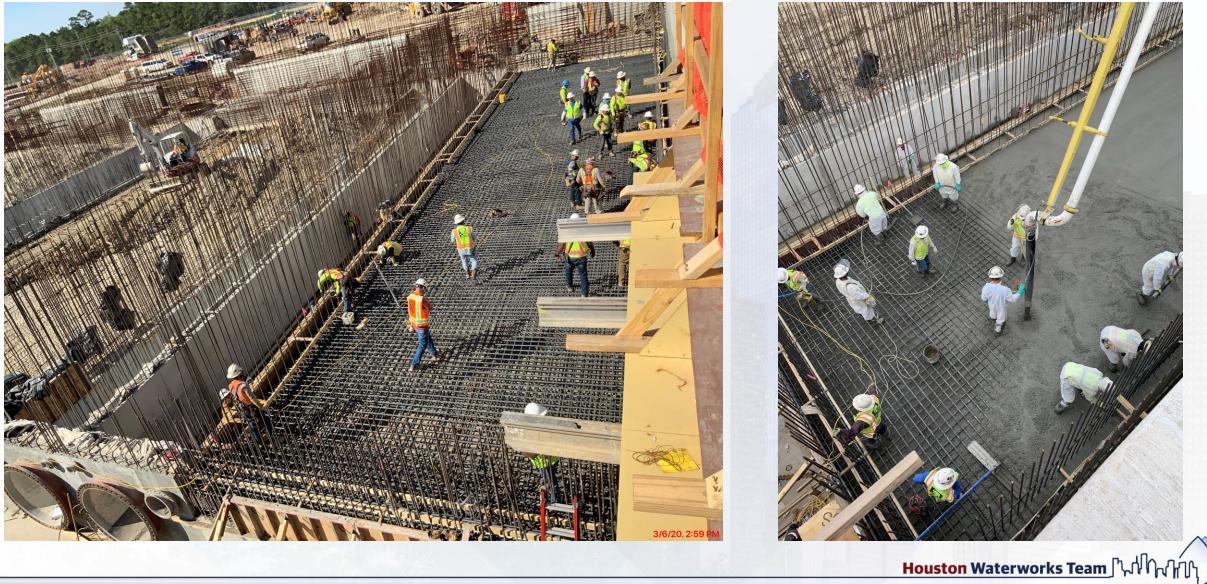
281-FILTER MODULE- Reinforcing/Forming Walls



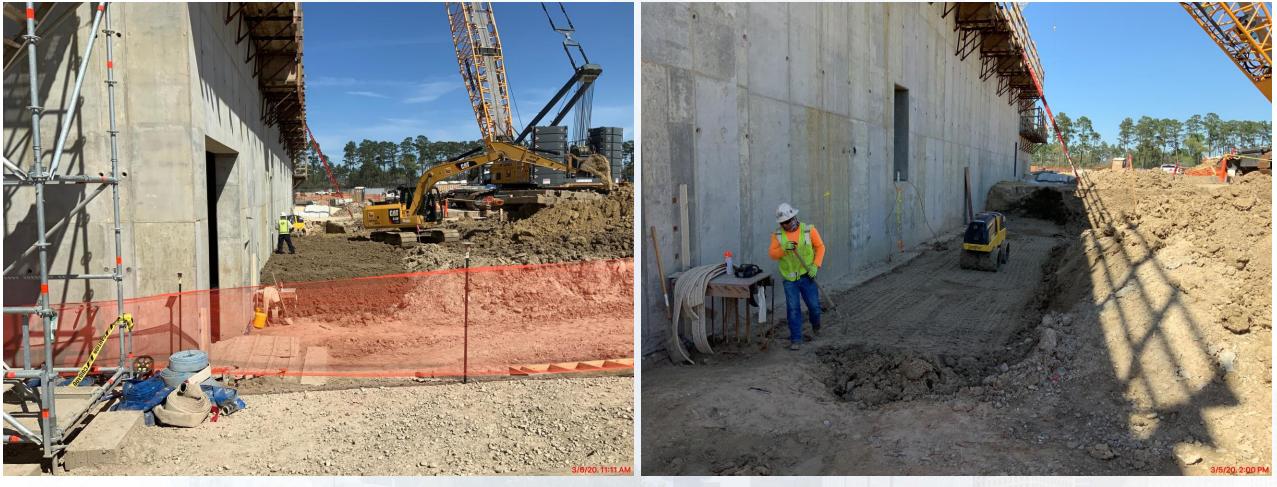




281-FILTER MODULE- Reinforcing/Pouring Filter 6 Slab

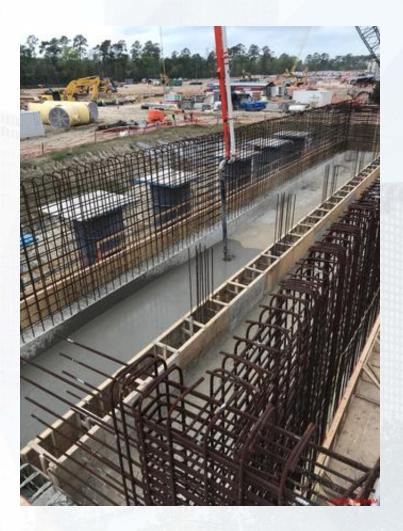


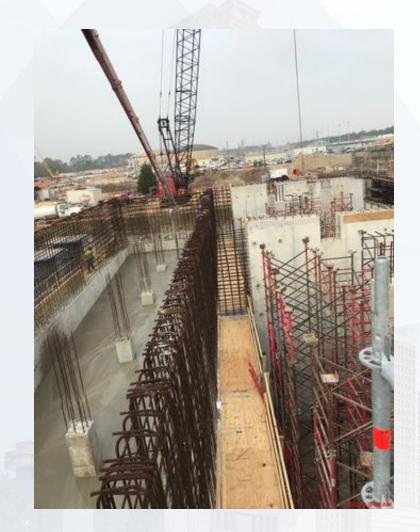
281-FILTER MODULE- Backfilling outside of Filter Building



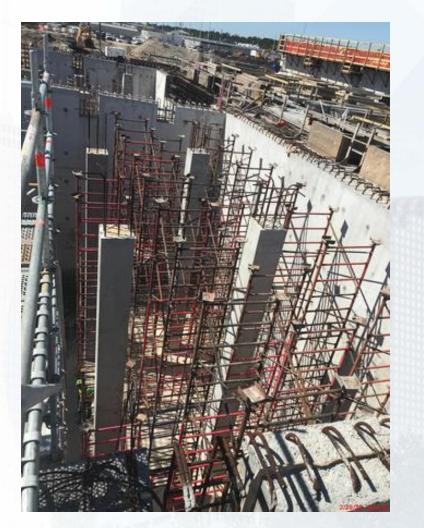


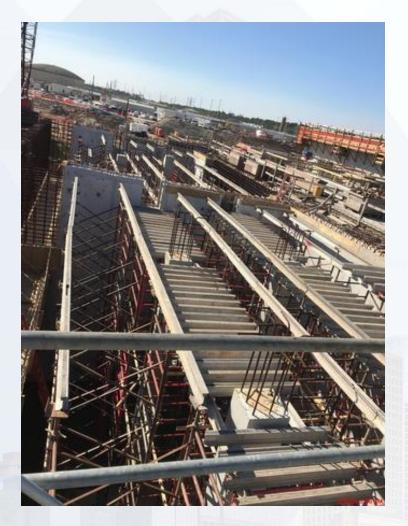
TPS – Poured CLSM under Overflow Channel





TPS – Top Deck Shoring and Forming Over Wet Well





311-PostChemical:Trench for underslab Electrical Conduit





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311-Post Chemical Facility: Staking stub ups





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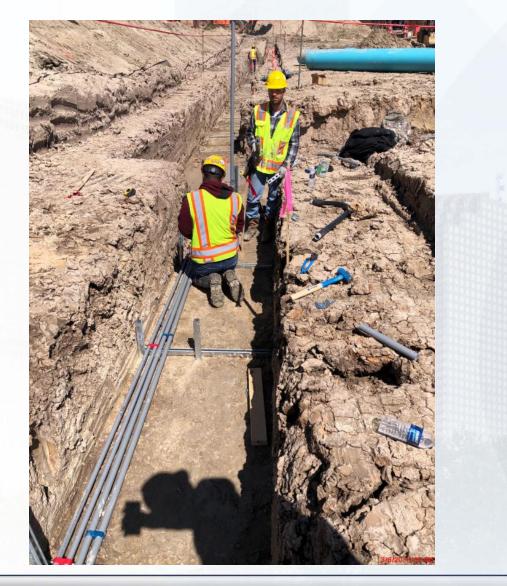
311-PostChemical:Removal of Existing C900 pipe

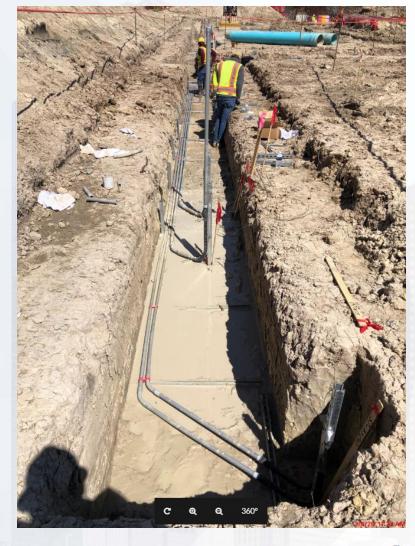




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311-PostChemical: Inst. Underslab Electrical Conduit.





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CENTRAL PLANT- 1st PHASE

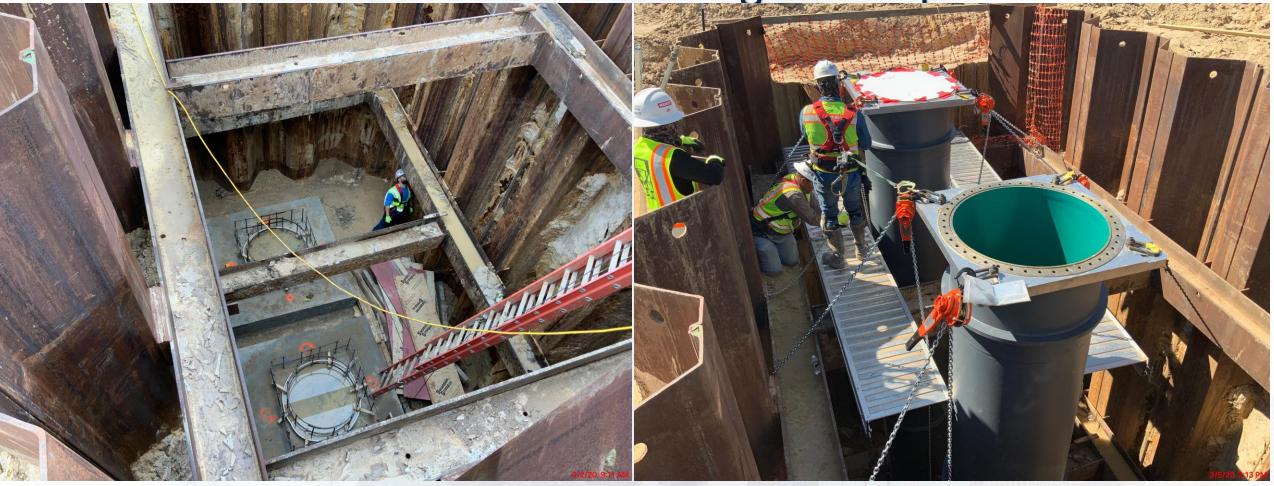


282-FILTER MODULE 2- West Tower Crane Erection





282-FILTER MODULE 2- Setting FD Pump Cans





282-FILTER MODULE 2- Laying West Under-slab 36" FTW





292 – Driving Sheet Piles



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CENTRAL PLANT - 2nd PHASE



Construction Progress – EWP6 North Plant

- Facility 213 Walls F/R/P
- Facility 221 Mass Excavation
- Facility 241 PDR Piping Installation
- Facility 242 PDR Piping, Flocculation Wall F/R/P
- Facility 252 Inlet and Outlet Boxes F/R/P, Setting Victualic W257 Coupling
- Facility 611 RCYS Valve Vault and Overflow Sump F/R/P
- Facility 502 Excavation and GT#3 and Service Bldg F/R/P

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Facility 213 WL-9 Striping Wall Formwork



Facility 242 FBDC and East Walls



Facility 242 96 inch CW Victaulic W257 Coupling



Facility 252 Striping Formwork for Inlet Box



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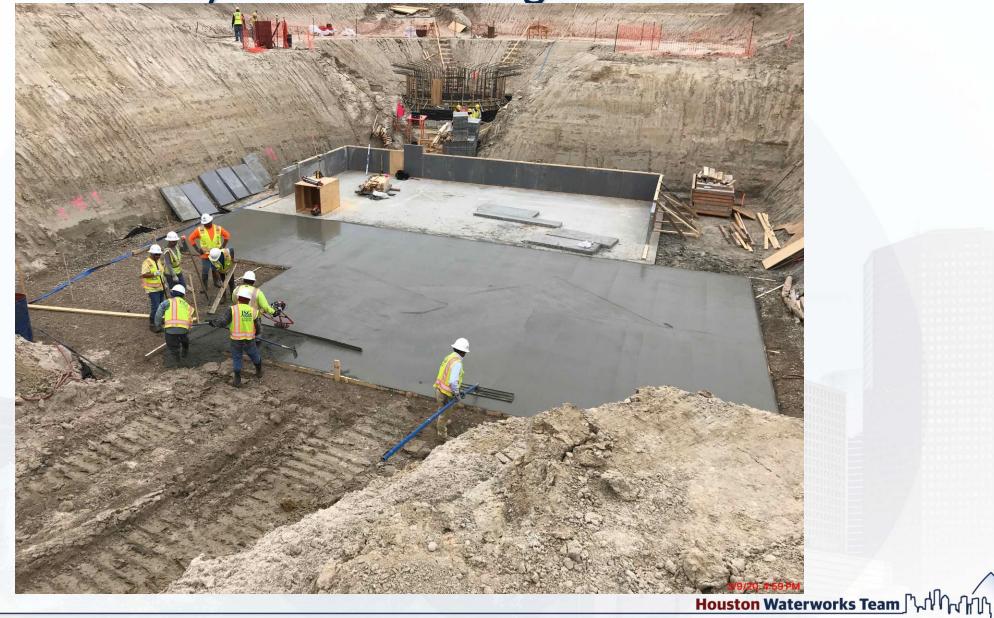
Facility 252 Outlet Box FRP



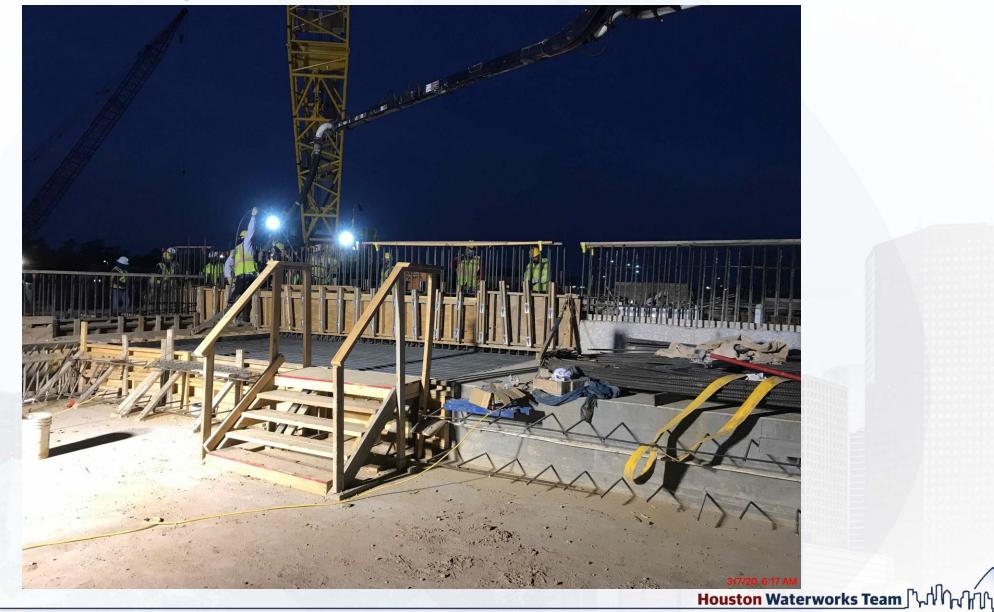
Facility 502 GT#3 FRP



Facility 502 Service Bldg Mud Slab



Facility 611 SL-4 Concrete Placement



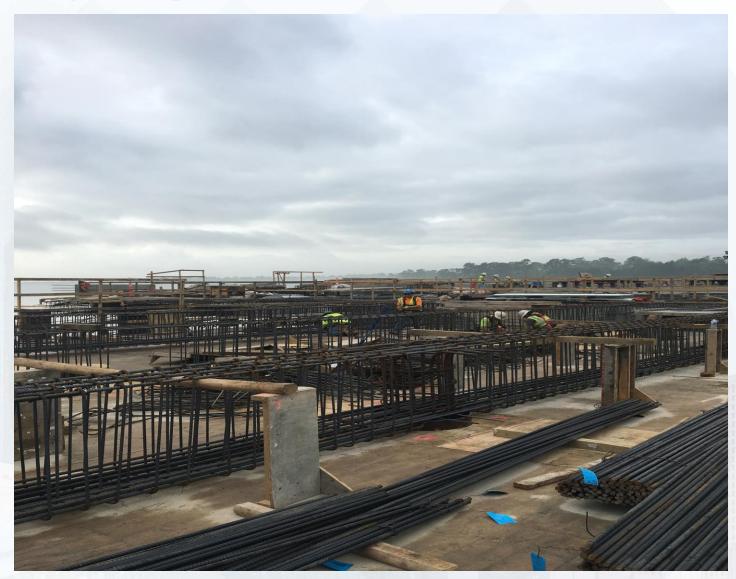
Facility 6118 inch RCYS Encasement



Construction Progress – EWP6 IPS

- Preparing Rebar For Area H Beam Pour
- Removing False Work And Friction Collars
- Driving Last Bridge Piles

Preparing Rebar For Area H Beam Pour



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Removing False Work And Friction Collars





Driving Last Bridge Piles

Construction Progress – EWP6 Substation Facility 102

Continue to install Building Foundation

Continue to Install Building Foundation



Construction Progress – BOP LREQ Basins Facilities 601/602

- Facility 601 Excavation Progress
- Underdrain Pipe Installation
- Limestone Rock Placement for 601 Underdrain
- Continue Mass Excavation South end of 601

Facility 601 Excavation Progress



Underdrain Pipe Installation





Limestone Rock Placement for 601 Underdrain







Continue Mass Excavation South end of 601



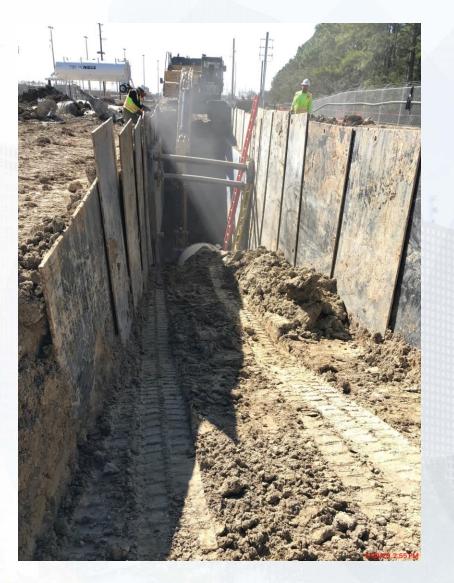


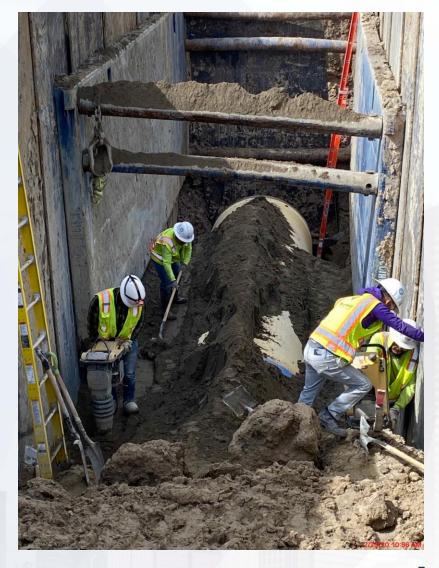
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Construction Progress – Yard Piping

- Installing and welding 66" RW steel pipe line in Corridor 1
- Installing and welding 84" & 96" FW steel pipe in Corridor 4
- Installing 16" SPD ductile iron pipe line in Corridor 3
- Installing Double 8'x4' storm box culverts in Admin area
- Installing 12" PW in Corridor 3, and 24" PW in Corridor 4

Installing 66" RW steel pipe line in Corridor 1





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Installed 84"BFV at GST 1



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Installing 96" FW steel pipe in Corridor 4





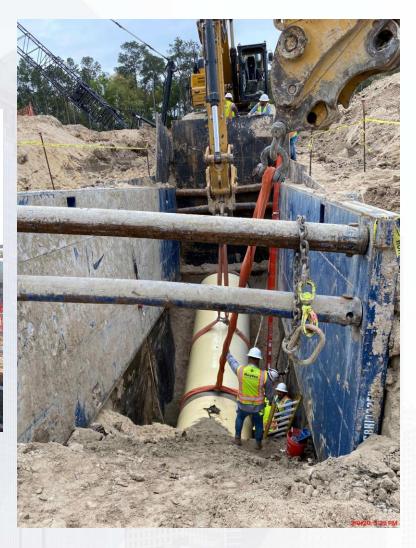


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Installing 60" BWS steel pipe in Corridor 4



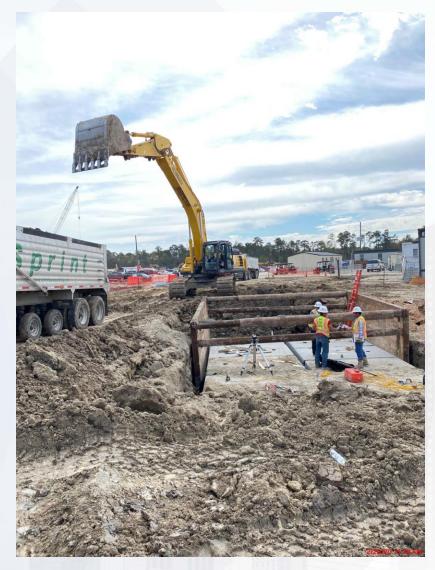




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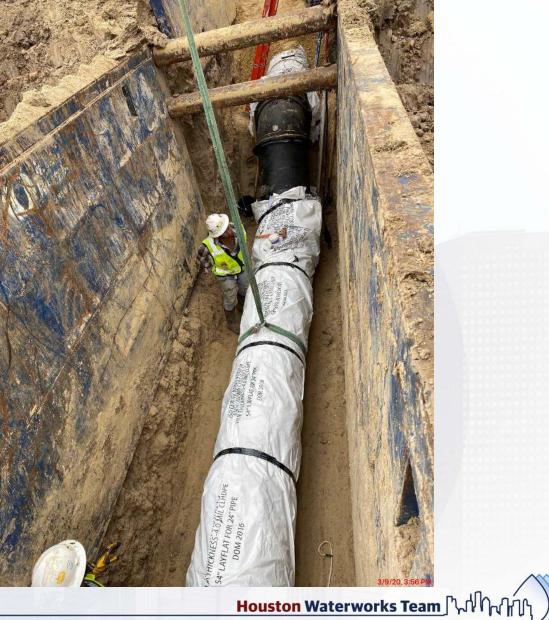
Installing Double 8'x4' storm box culverts in Admin area





Installing 24" PW in Corridor 4





60

Construction Progress – Administration Building

- Achieved Backfill to EL 50
- Completed Density Tests on 14 Lifts

AMB Progress Photos





Achieved Backfill and Compaction to EL 51 in Admin

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AMB Progress Photos





Compaction & Density Test of 15th Lift in Admin



AMB Progress Photos





Placement of Communication Fiber Duct Bank

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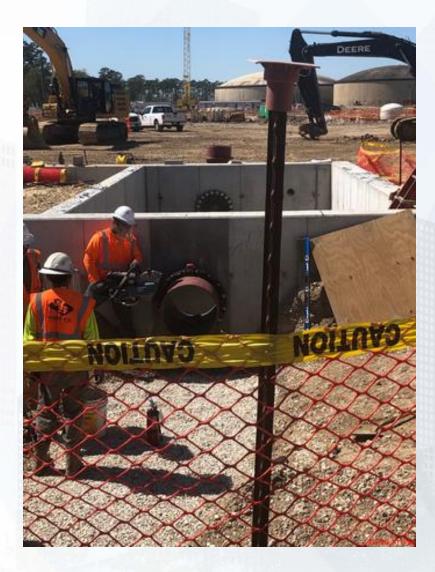
Construction Progress – South Plant

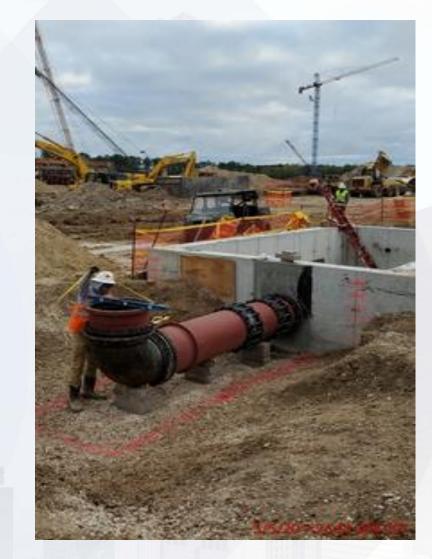
- 84" pipe butterfly valve installed at GST 361
- Installing 24" pipe at the overflow box at GST 361 and 362
- Placing reinforcement at Facility 520
- Placing reinforcement at Facility 111
- Pump can foundation concrete poured at HSPS 401

84" pipe butterfly valve installed at GST 361



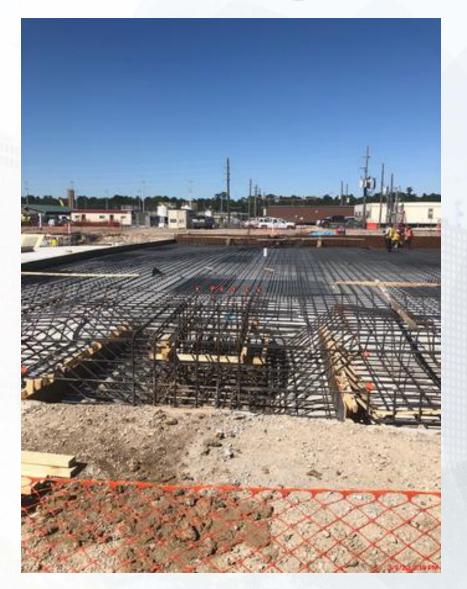
Installing 24" pipe at the overflow box at GST 361 and 362





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Placing reinforcement at Facility 520

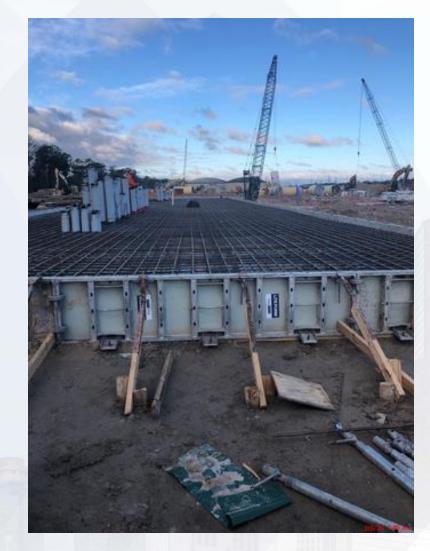




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Placing reinforcement at Facility 111

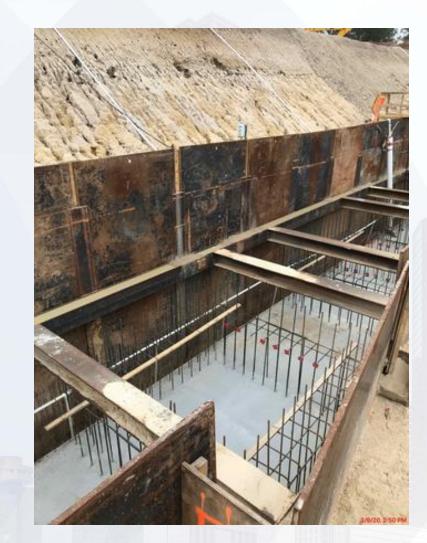




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Pump can foundation poured at HSPS 401





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