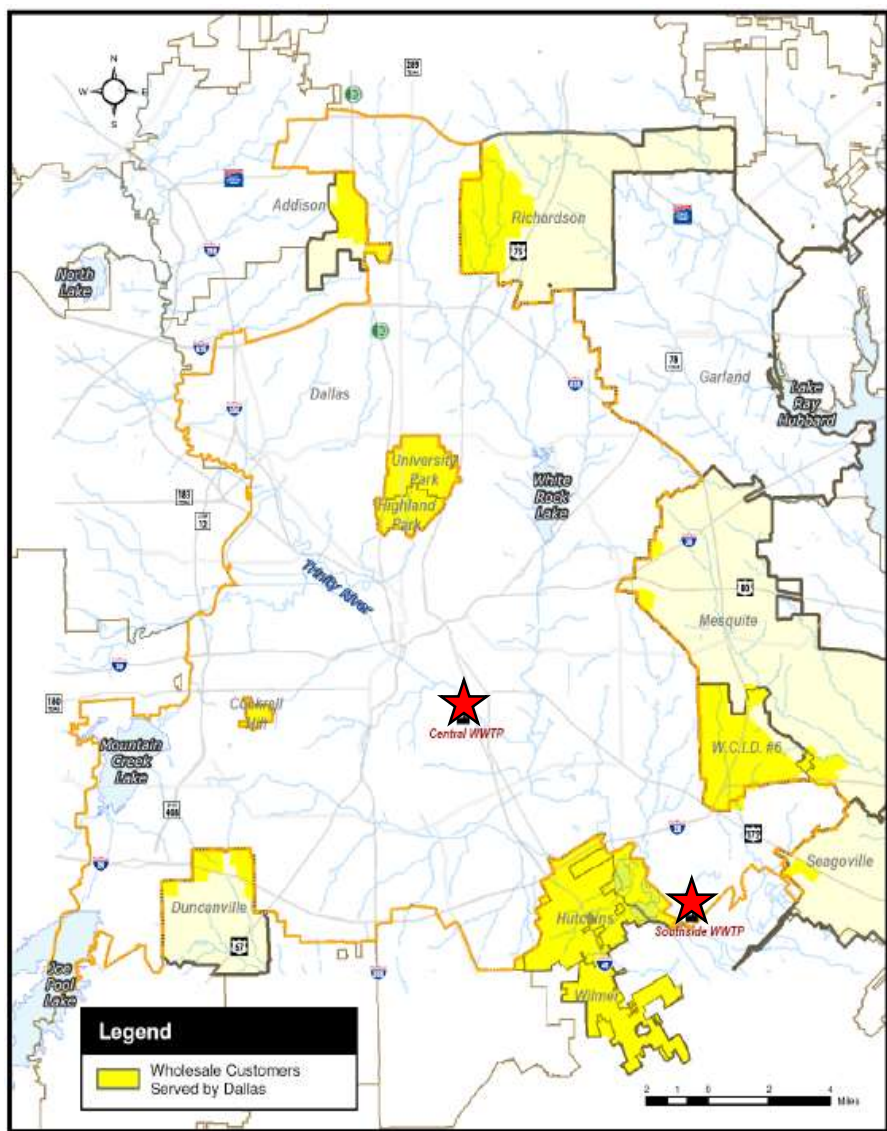


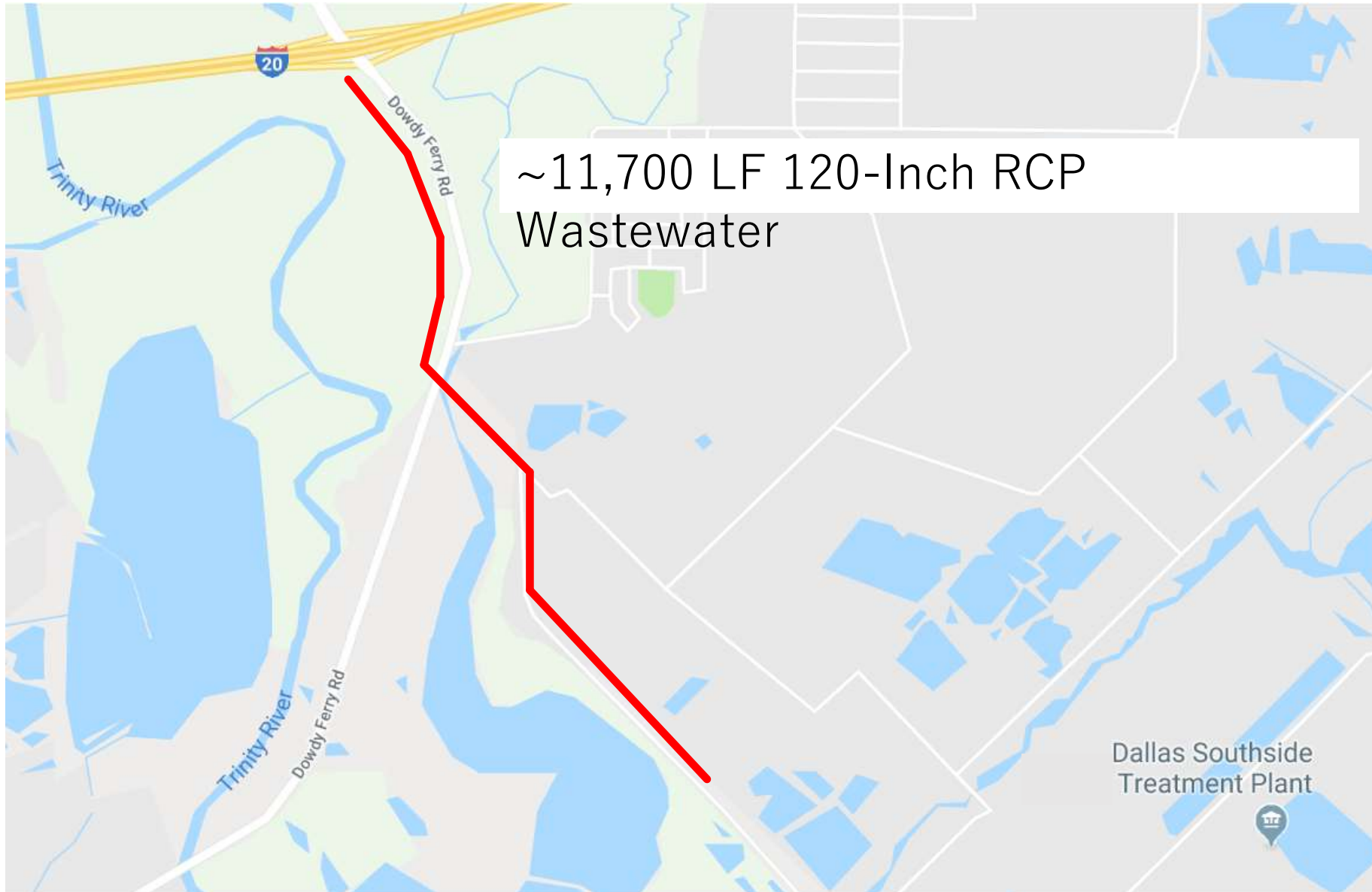
# Sliplining 120-Inch RCP Wastewater in Dallas, Texas – Part 2

**Speakers:** Marty S. Paris, P.E.  
Ashlyn Morgan, P.E.



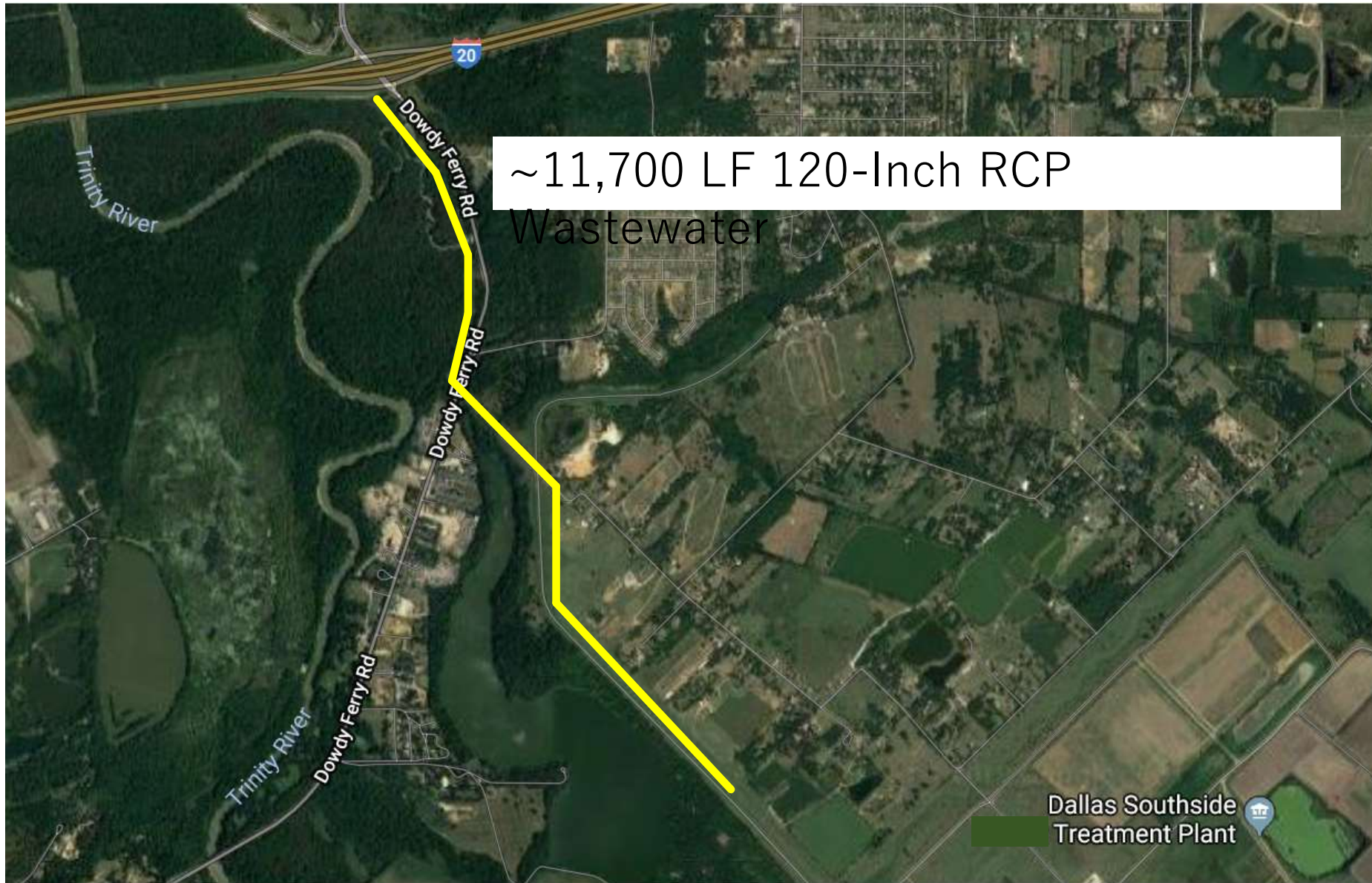
- 2 Wastewater Treatment Plants
- 280 MGD WW Treatment Capacity
- 1.2 Million (population served)
- 4,000 miles of wastewater pipe
- 6"to 144"Diameters

# PROJECT LOCATION





# PROJECT LOCATION



## 120-Inch RCP Existing Condition





## REHABILITATION ALTERNATIVES

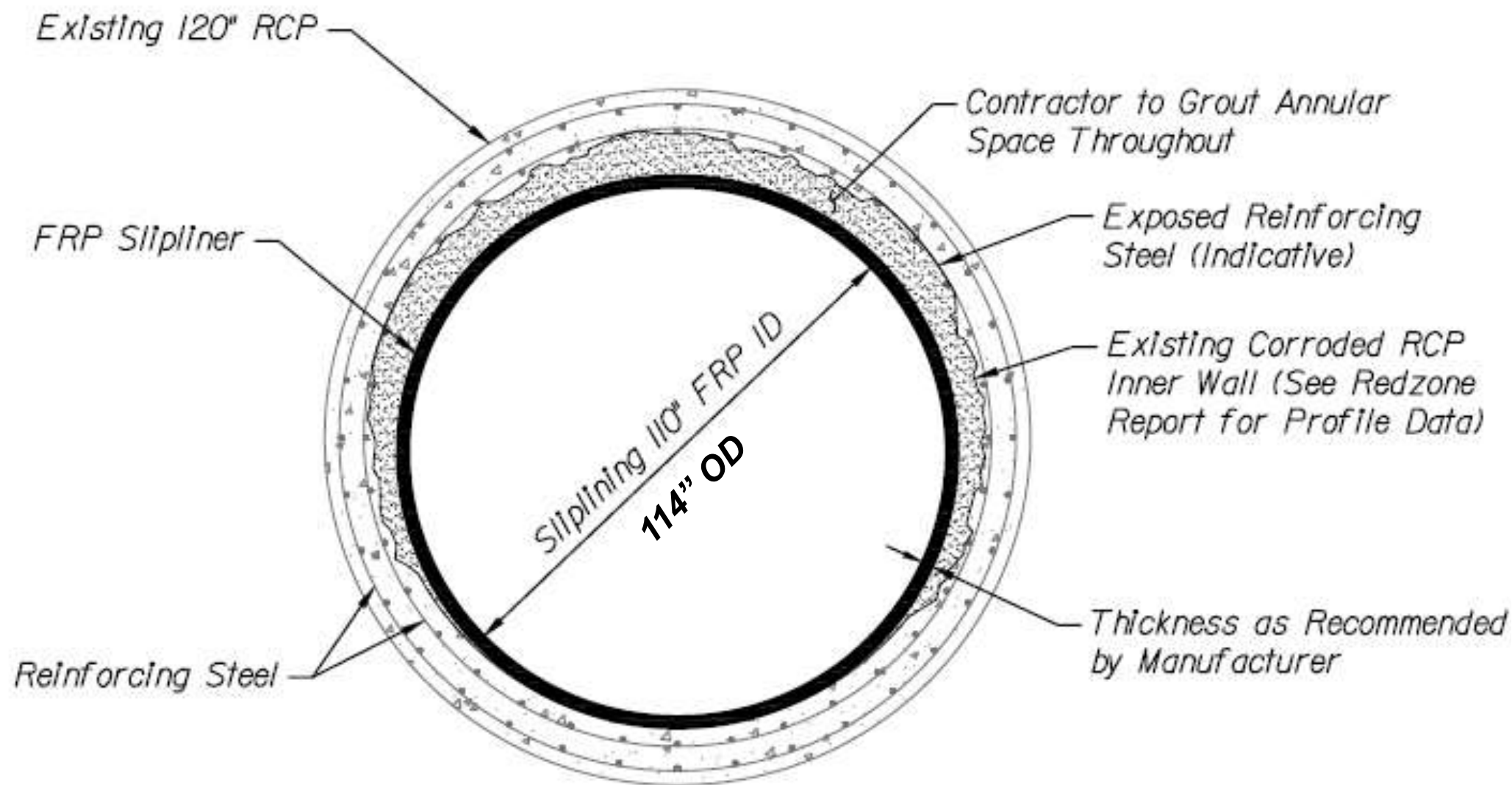
- Sliplining
- Cured-in-Place
- Spiral Wind PVC/HDPE
- Spray Line with Geopolymer or Epoxy
- Open Cut Replacement





## BID RESULTS

Contractor	Total Bid Price
Oscar Renda Contracting, Inc.	\$22,436,985.50
S.J. Louis Construction of Texas, LTD.	\$22,618,945.15
Ric-Man Construction, Inc.	\$24,560,844.00



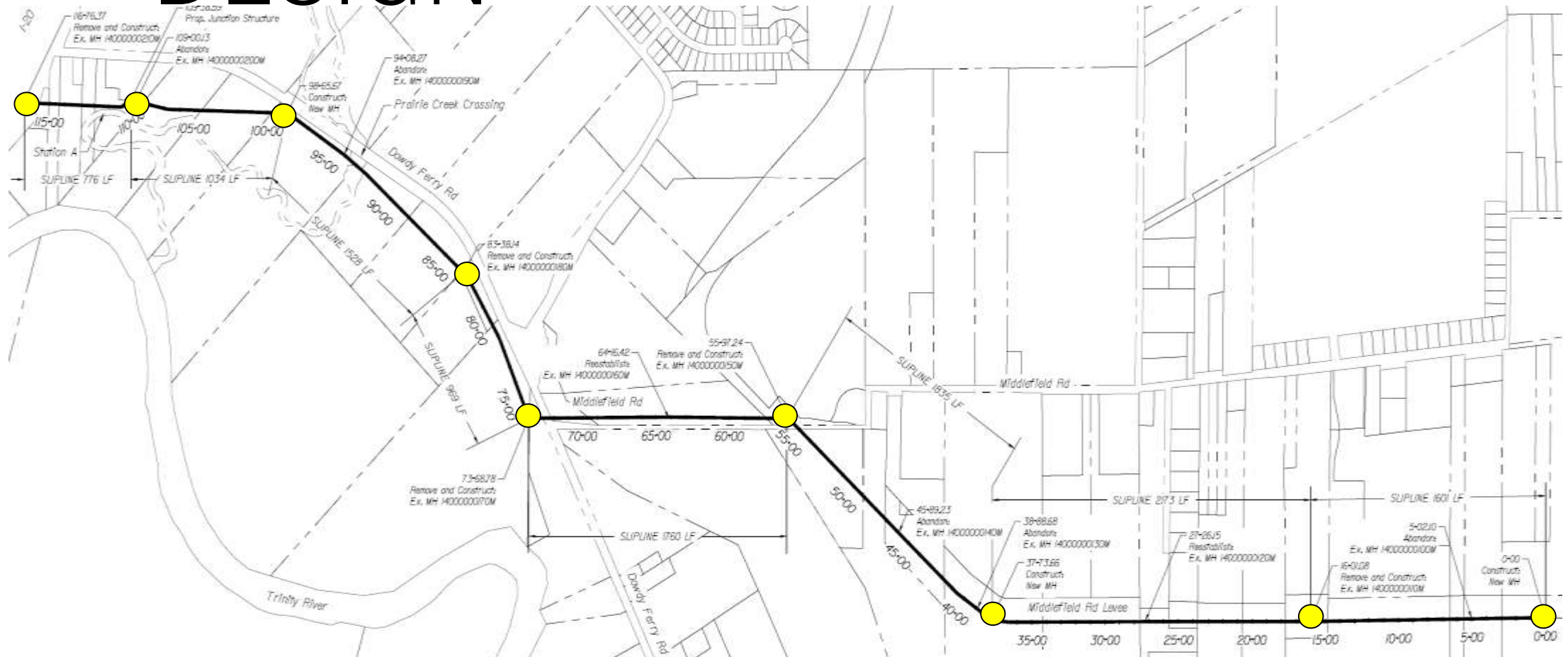




# The Underground Utilities Event

Underground Construction Technology | January 28-30, 2020 | Fort Worth, TX

## ACCESS SHAFTS PER DESIGN

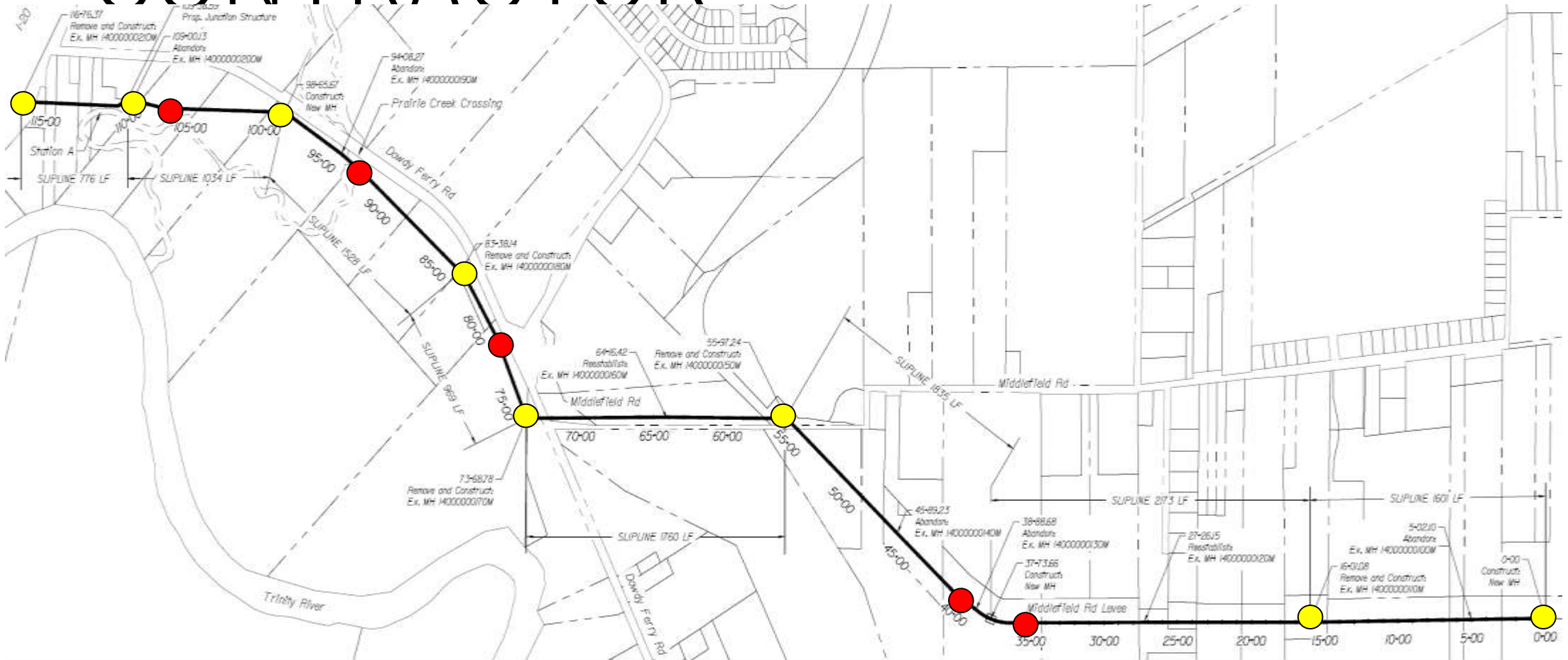




# The Underground Utilities Event

Underground Construction Technology | January 28-30, 2020 | Fort Worth, TX

## ACCESS SHAFTS PER CONTRACTOR





## ACCESS SHAFTS BID ITEMS

- Item No. 3521 **Rehabilitation of 120" Concrete Sewer by 110" Sliplining**
  - **\$14.4 Million**
- Item No. 6926 **Excavation Safety and Support for Access Pits**
  - **\$4 Million**



# Access Shaft #1





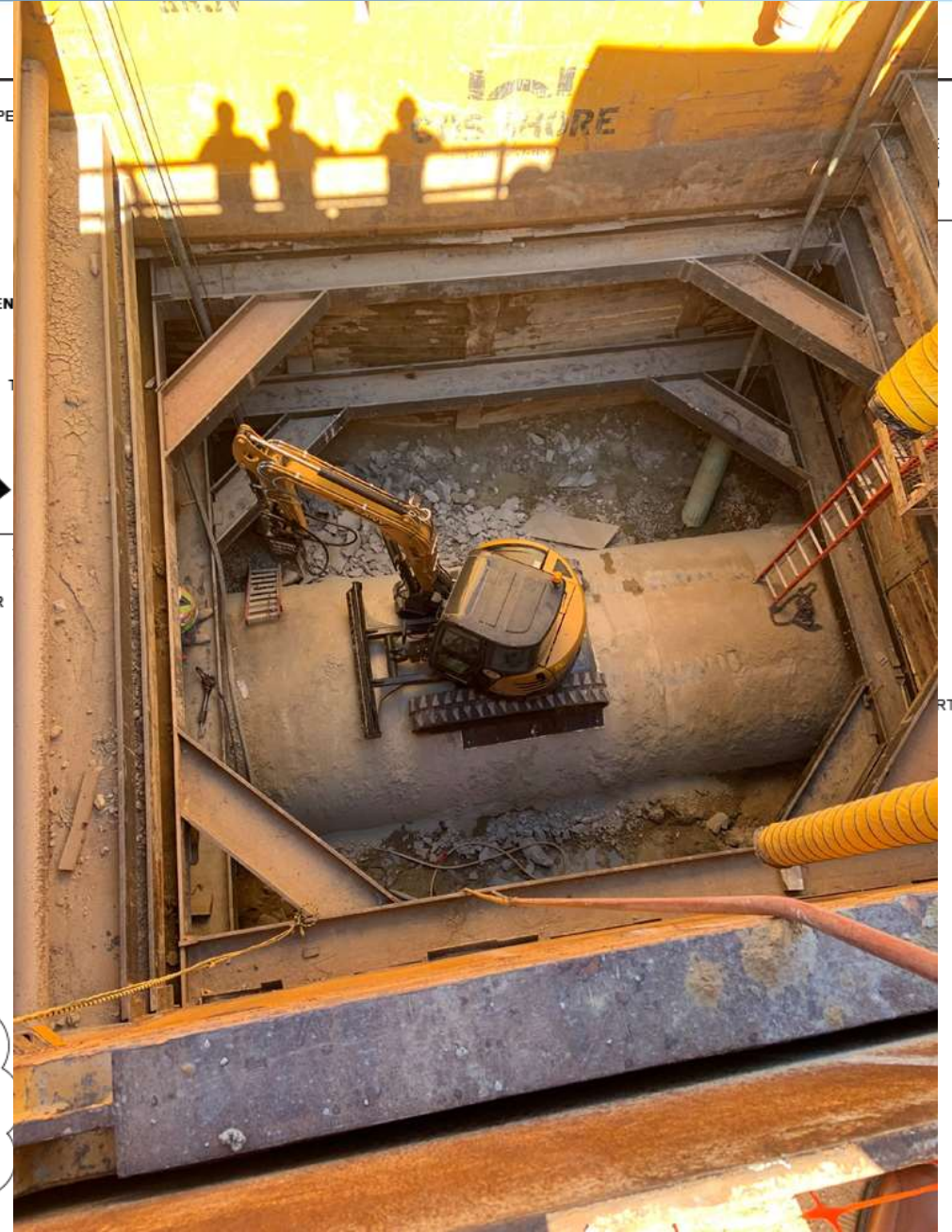
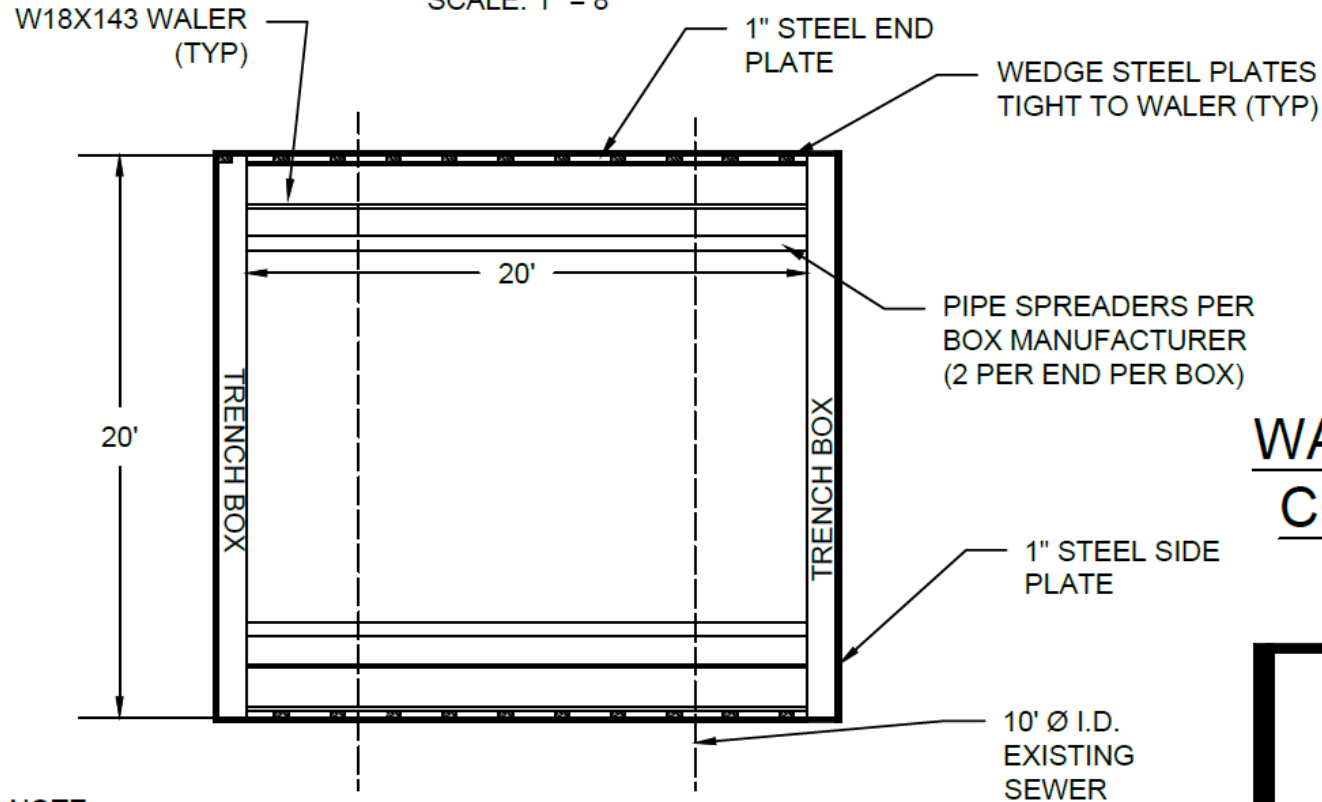
# Access Shaft #1 (28' L x 24' W)





## PLAN VIEW SHAFT 2 STA. 16+01

SCALE: 1" = 8'





# Access Shaft #3 (31' Diameter)



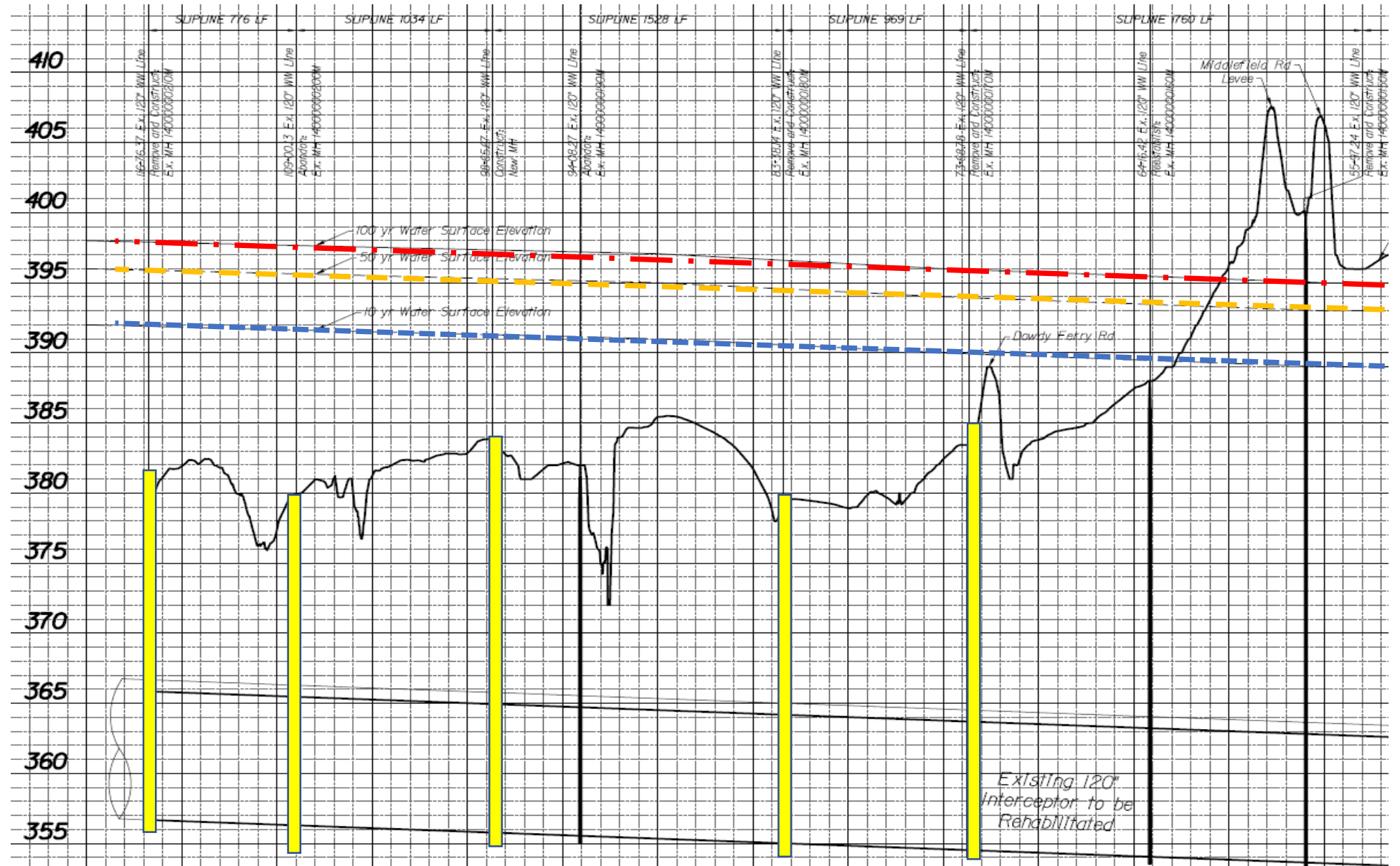


# Access Shaft #3 (44' Deep)





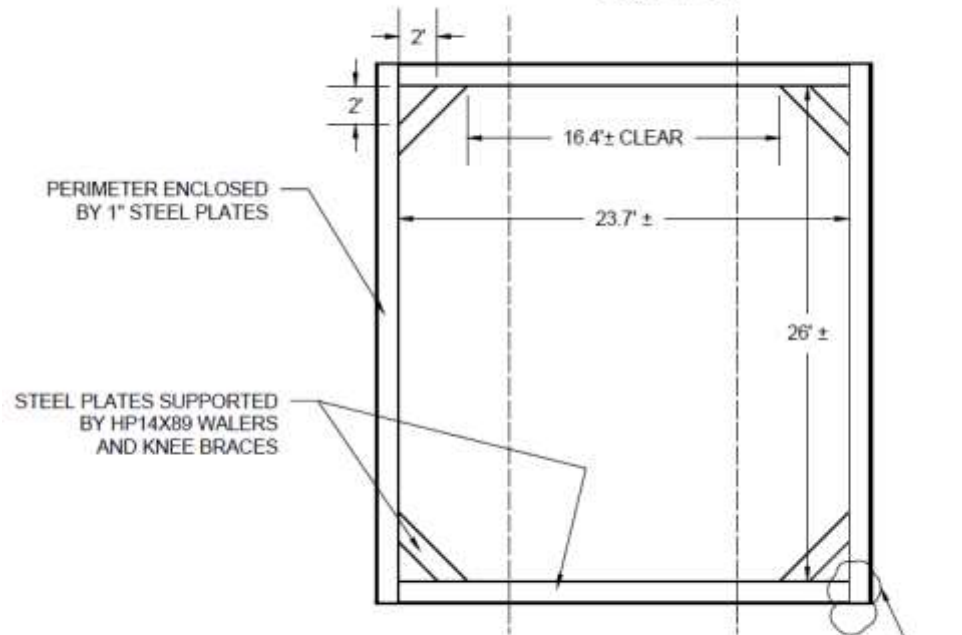
100 year WSE  
50 year WSE  
10 year WSE



# Access Shaft Flood Protection

**PLAN VIEW FLOOD CONTROL  
 OPTION 1 - 21 FT OF HEAD**

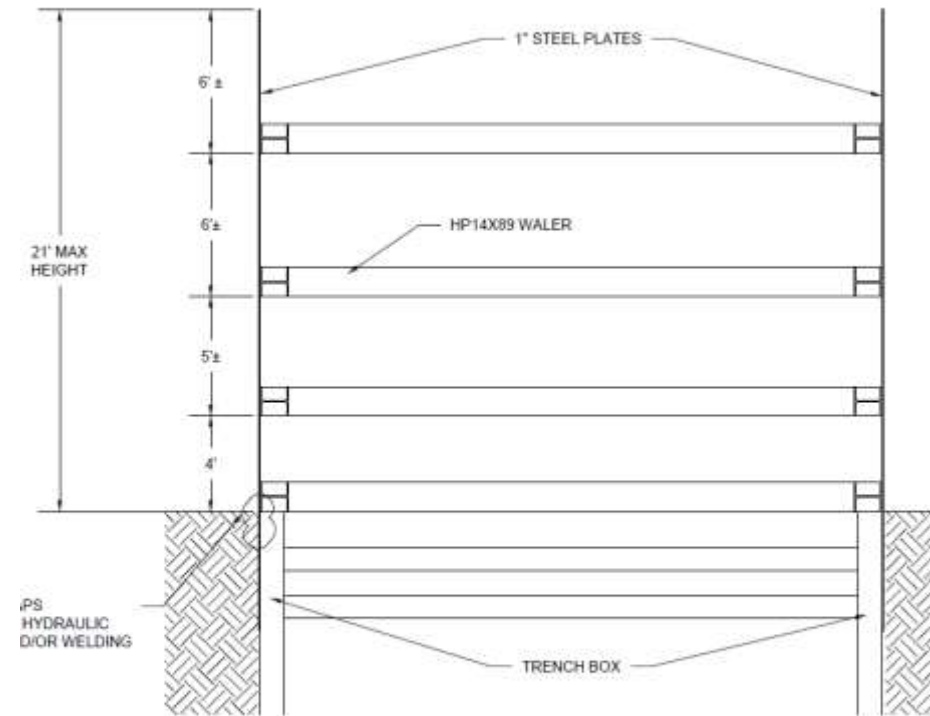
SCALE: 1" = 8'



**WALER TO WALER AND PLATE  
 TO WALER CONNECTION DETAIL**

**PROFILE VIEW SHAFT FLOOD  
 CONTROL OPTION 1 - 21 FT OF HEAD**

SCALE: 1" = 5'



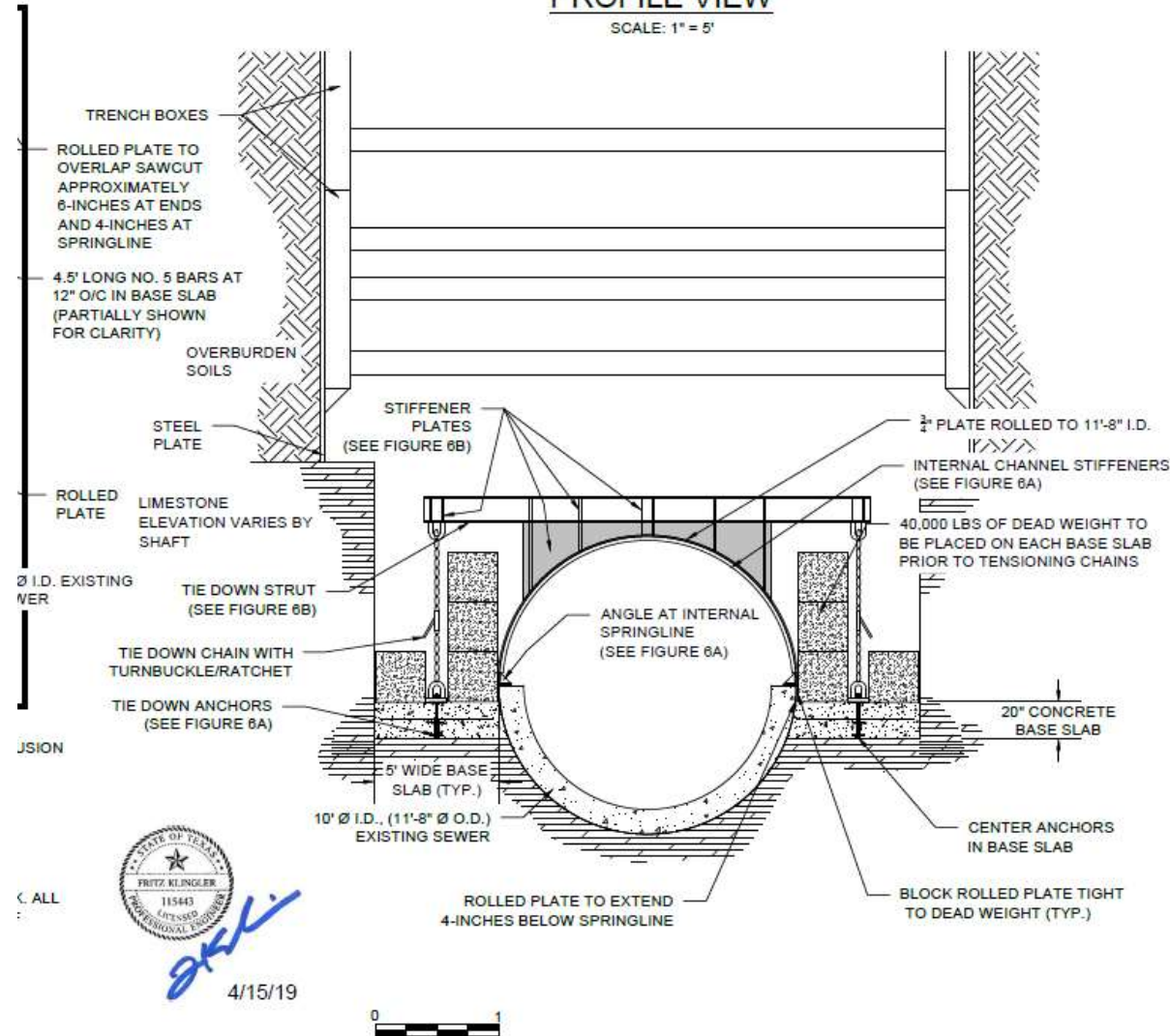
NOTE: FLOOD PROTECTION METHODS SHOWN ON THIS FIGURE ARE APPLICABLE TO ALL SHAFTS SHOWN ON FIGURE 1 AND FIGURE 2.


# Access Shaft Flood Protection

EW

## TYPICAL FLOOD PROTECTION CAP PROFILE VIEW

SCALE: 1" = 5'



CND-HLS 1000 18-120 Southland SS 15-Apr-19 TRENCHING SOILS AS SHOWN 15-Apr-19	 <b>FKE</b> 248.817.2948 Madison Heights, MI	REV # DATE REVISION TITLE	SOUTHLAND FLOOD PROTECTION CAP SOUTHSIDE INTERCEPTOR REHABILITATION GENERAL DESIGN	FIGURE NO. <b>6</b>
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# PIPE CLEANING

- Item No. 300125T **Cleaning of 120" Concrete Sewer**
  - **Lump Sum - \$100,000**
- Item No. 300126T **Debris Removal and Disposal from 120" Concrete Sewer**
  - **275 CY @ \$100 = \$27,500**





# Sliplining Jacking Frame (Shaft #2)





## CONSTRUCTION SCHEDULE

- NTP on November 5, 2018
- Contract Time = 523 Working Days
- Final Completion by December 7, 2020
- Begin Pushing Pipe in January 2020





# The Underground Utilities Event

Underground Construction Technology | January 28-30, 2020 | Fort Worth, TX

## QUESTIONS?



### Contact Information:

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**Kimley»Horn**