

# The Critical Role of Documentation and Inspection in Construction Success

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# Agenda

- Documentation procedures
- Project overview
- Real-world examples
- Conclusion
- Questions



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# Procedures

- Field inspection
- Communication
- Documentation
- RFI responses
- Field changes



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# Field Inspection

- Inspection services
- Prove outs
- On-site verification/photos





# Communication

- Prompt and Open
- Field Staff
- Methods



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# Documentation: Inspection Report

- Completed after every visit
- Project engineer review
- Project record

## DAILY CONSTRUCTION REPORT

REPORT NO:	PROJECT NO: 102069	PROJECT NO: 130-10877-000				
DATE: 10/12/2023	TYPE OF WORK: Pipeline	SITE LOCATION: Sycamore Park to Cobb Park, Fort Worth				
Sycamore Creek Relief Interceptor - Phase 3						
CONTRACTOR:						
WEATHER:	Temp.(deg F):	SITE CONDITIONS: (Describe)				
<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cldy	High: 83	part-cloudy, breezy			
<input type="checkbox"/> Cloudy	<input type="checkbox"/> Rain	Low: 63				
FORCE AND EQUIPMENT ON PROJECT						
LABOR FORCE/SUBCONTRACTORS	QTY	HRS	EQUIPMENT	QTY	HRS IN USE	HRS STDBY
Foreman	1	10	RT Wheel Loader (CAT 966M)	1	10	
Operators	3	10	Track Excavator (CAT 390)	1	10	
Labor	7	10	Track Excavator (CAT 349)	1	10	
Armorock	0	0	Sheepfoot Roller (CAT CP44B)	1	0	
United Rental Fluid Solutions	0	0				
Daily Observations						
I was onsite approx. 1:00 PM.						
4man/ Fernando V. is onsite with crew performing operations: removing concrete and grading at sections of Park Trail to be removed and replaced, testing set up and performed on 48" FRP from station 101+80 to 106+90. **Testing was performed at 3.5psig for 3 Hours with no loss of air pressure - results of test is conforming to specifications "passing" for acceptance; crew is prepping piping for Siphon 2 for segment pressure testing of 42" and 27" lines scheduled for 10/13/23						
I am not aware of other operations onsite at this time. See attached sheet and project file for photos of today observations.						



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# RFI Response

- Tracking log
- Collect responses
- Review and issue
- **SPEED** and **ACCURACY**

## Request for Information Response

Project Name: Sycamore Creek Relief Interceptor - Phase 3

Owner: City of Fort Worth Water Department

COFW Project # 102069

Engineer: Lockwood, Andrews & Newnam, Inc.

LAN Project # 130-10877-000

Contractor:

RFI#:		Subject:				
Information Requested						
Engineer's Response						
Name:			Signature:		Date:	





# Field Changes

- No impact to **COST**
- No impact to **SCHEDULE**
- Revised drawings issued

Date \_\_\_\_\_

FIELD ORDER NO. \_\_\_\_\_

Project:	Project No.:
Contract For:	Contract Date:
Subject of Field Order:	
Description (List attachments, if any):	
<p><i>The Contractor is hereby directed as set forth below. These instructions are issued pursuant to the General Provisions in the Contract Documents. It is the Engineer's opinion that this FIELD ORDER does not alter the Contract Price or the Contract Time. The Contractor must notify the Engineer immediately and request a change order if the Contractor does not agree with the Engineer's opinion.</i></p>	



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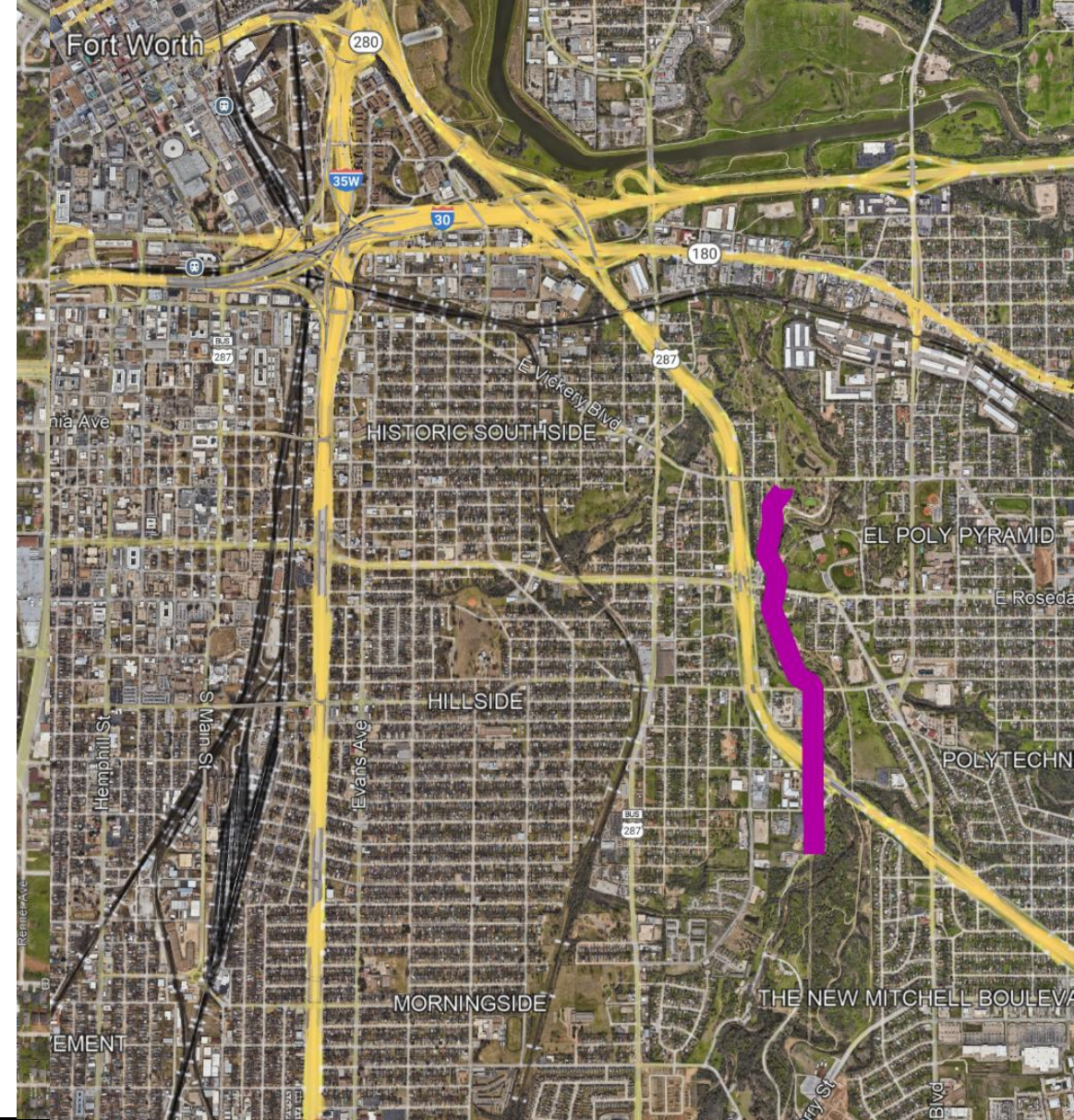
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# Project Overview

- 6,000 LF – 60” FRP parallel relief interceptor.
- 2 inverted siphons
- Interconnection w/ Existing 48”
- Highway crossing - tunnel
- Bypass Pumping (25 MGD)



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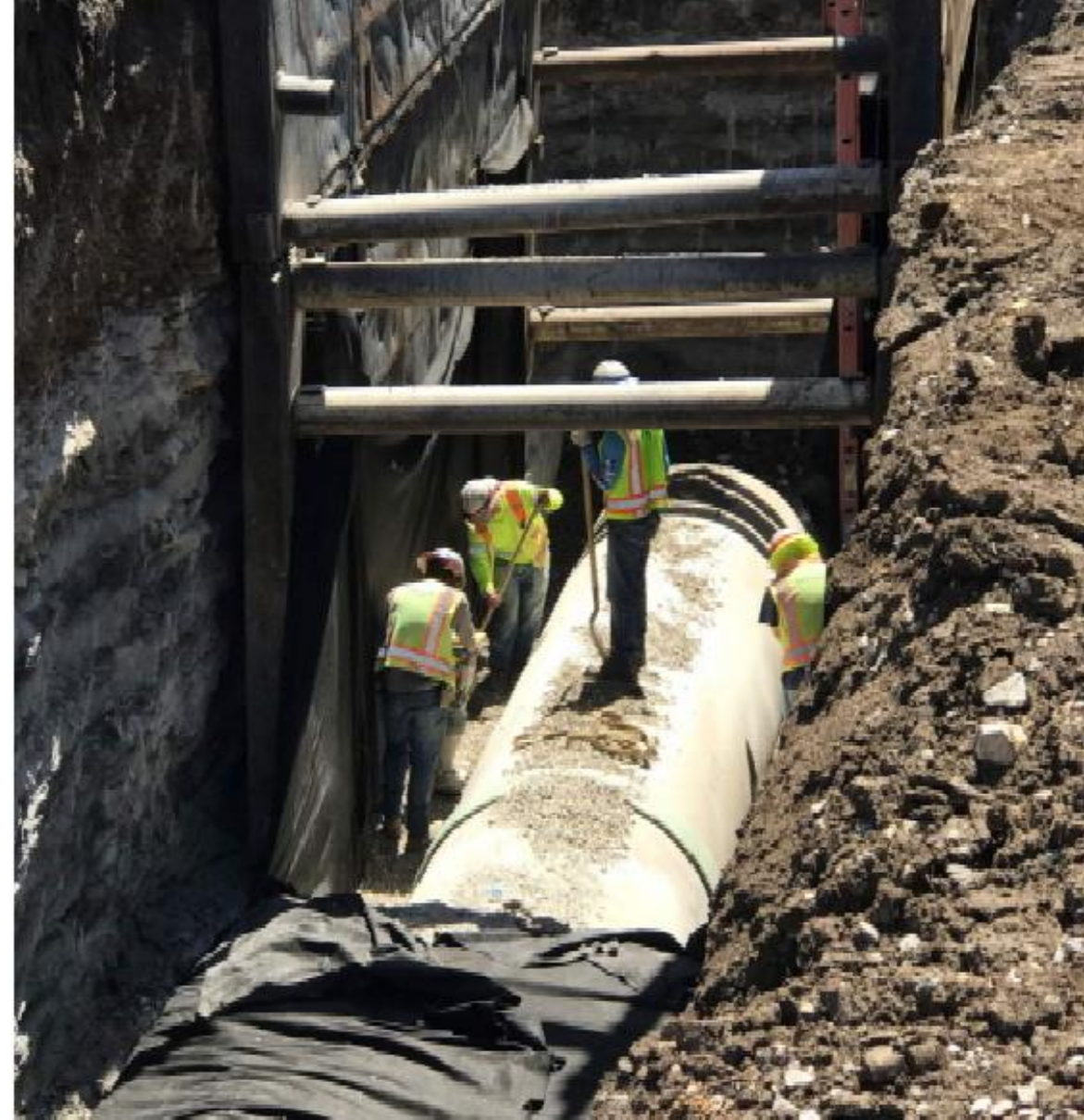
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# Pipe Prove Out

- Owner, engineer, and inspection staff
- Installation verification
- Compaction not achieved
- On-site recommendation



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# Pipe Prove Out, Continued

- Trench adjustment
- Successful installation
- Same-day approval
- Maintained schedule



PLANNING  
ENGINEERING  
PROGRAM MANAGEMENT

memo

Project Name: Sycamore Creek Relief Interceptor – Phase 3

Subject: Embankment Material Compaction Prove-Out

“The method of compaction performed by the contractor in the field on the above-mentioned date is generally approved”



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# Junction Box

- Elevation discrepancies
- Inspection & on-site flowline confirmation
- Communication
- Action taken



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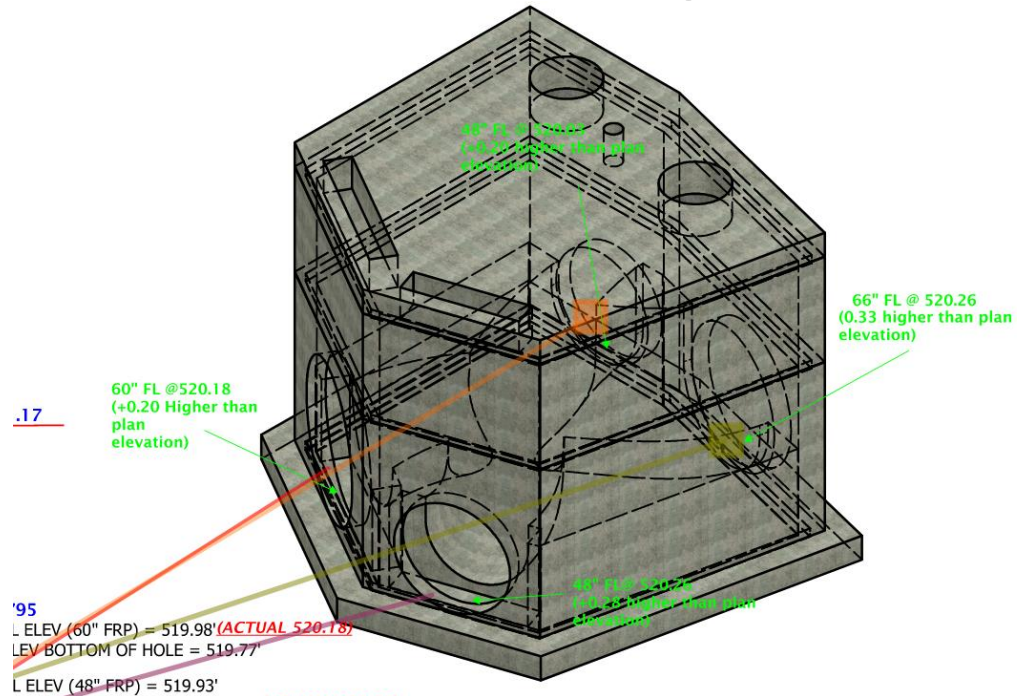
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# Junction Box

- Surveyors on-site
- Alternate design



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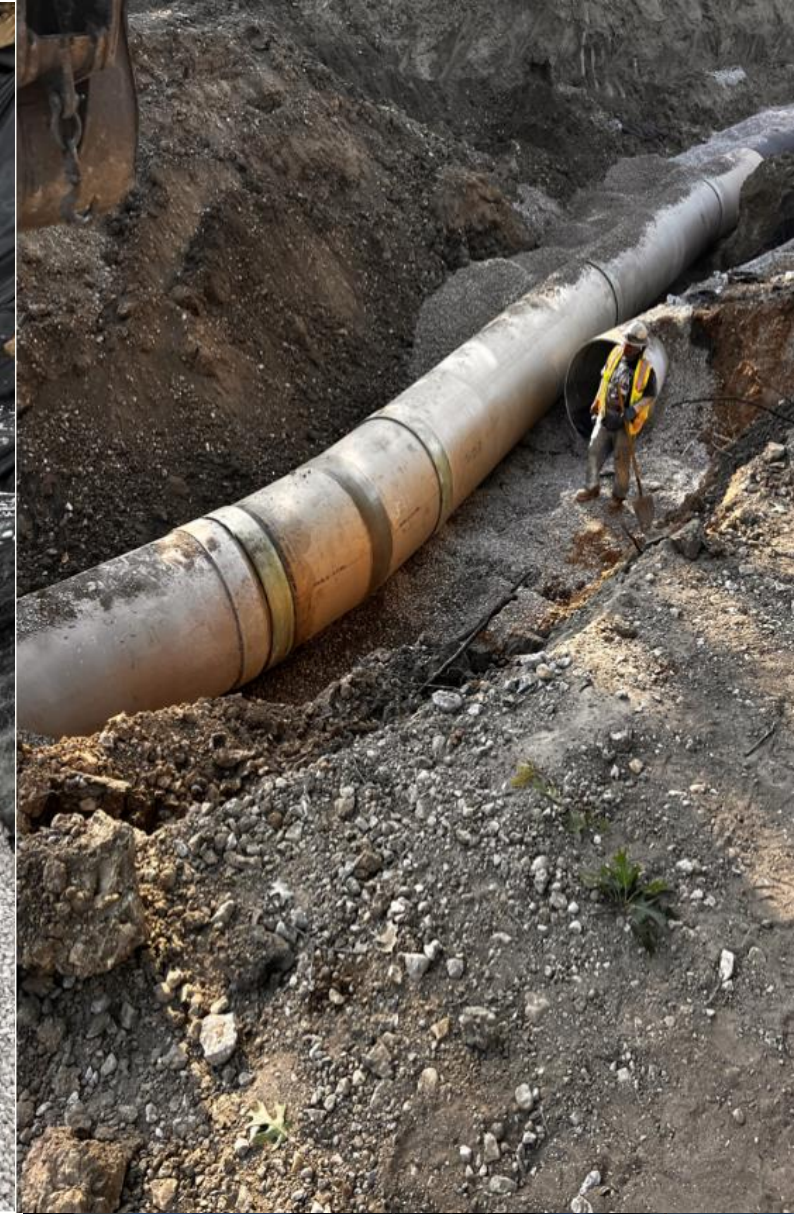
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# Pipe Slope

- Grade discrepancies identified
- Action taken



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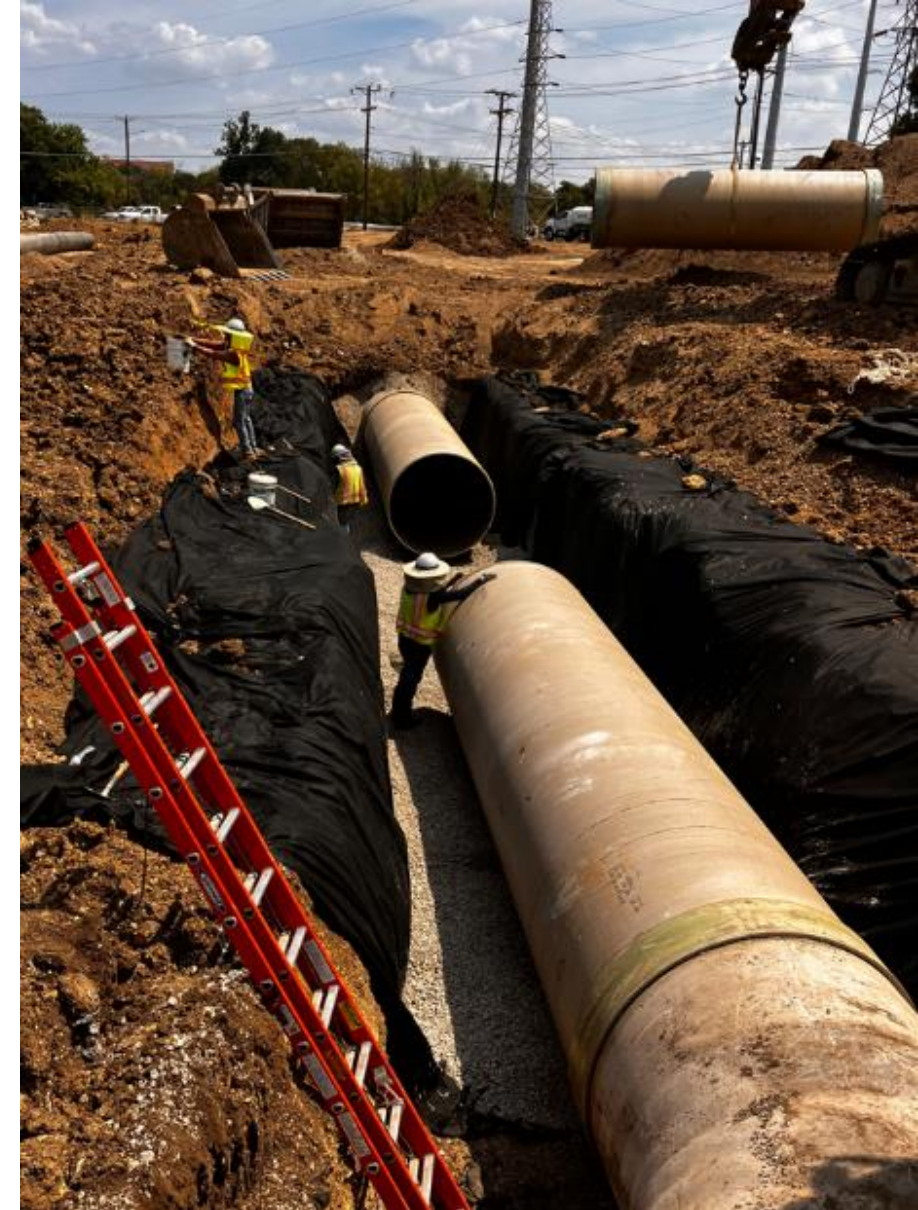
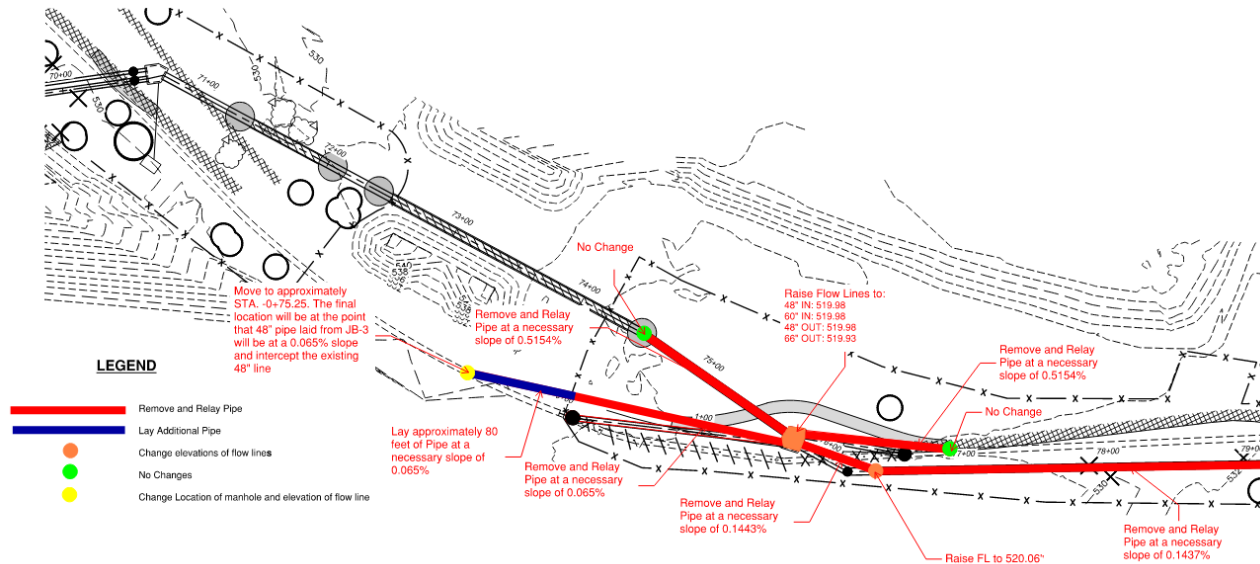
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# Pipe Slope

- Communication
- Solution
- Success



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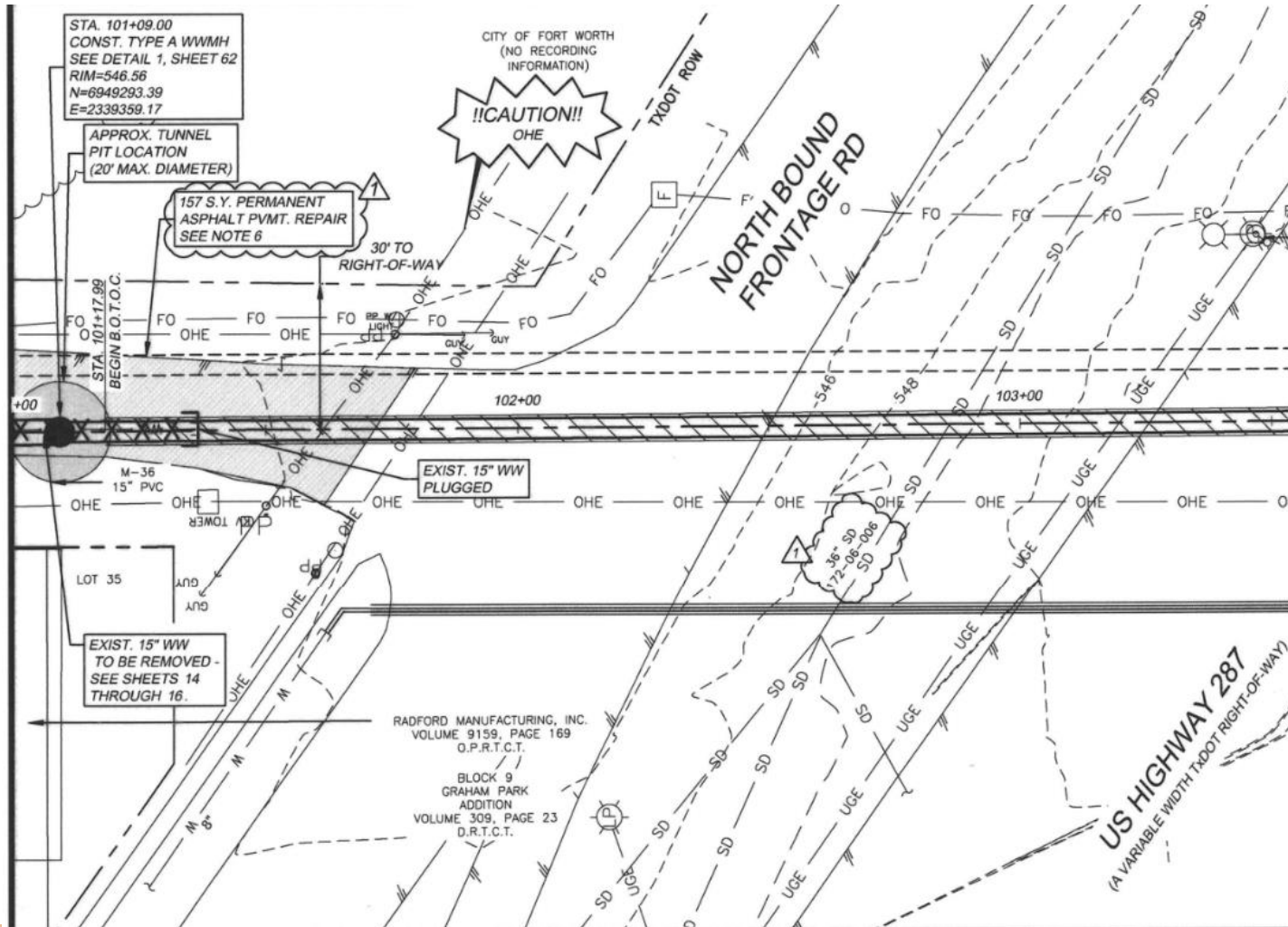
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# Highway Crossing



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# Highway Crossing



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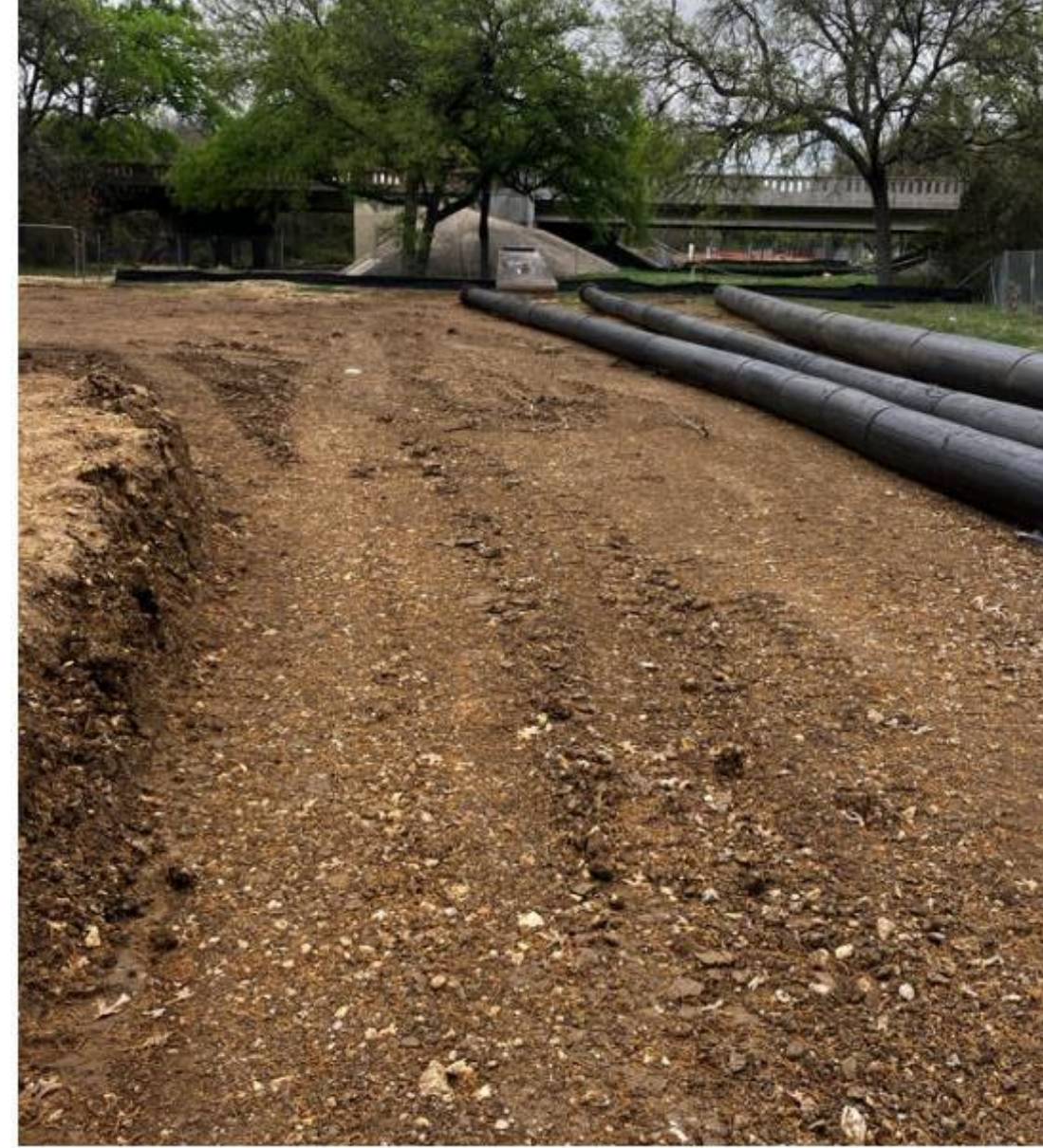
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# Bypass Pumping





# Conclusion

- Daily inspection
- Speedy turn-arounds
- Clear and effective communication
- Provide on-time and quality project







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# Questions?



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