



# Uncovering the Past

## Emergency Replacement of 21" Sewer in Downtown OKC

Kimley»Horn

# About me



## **Underground Infrastructure Conference**

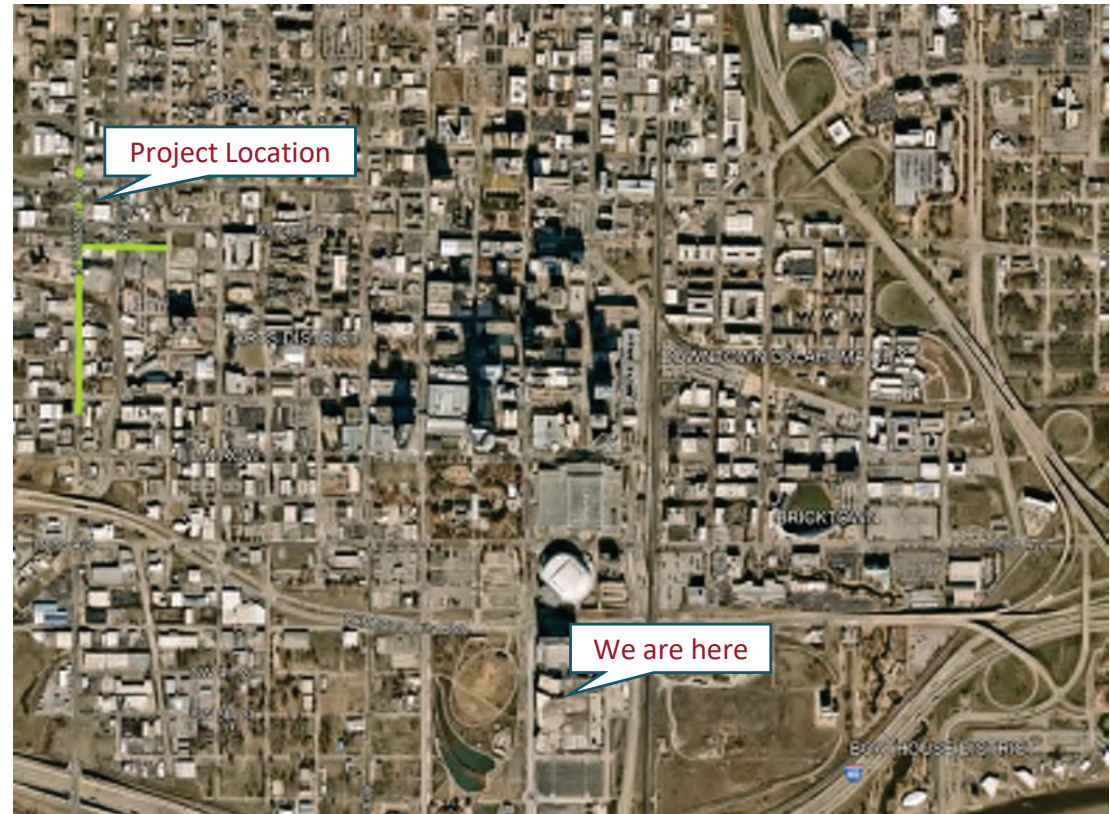
Construction. Rehabilitation. Asset Management.

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# Setting the Stage

- Project background
- Fast tracked nature
- Stretch goals



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FUTURE  
DEVELOPMENT

NW 5TH STREET

CLASSEN BLVD

ROBERT S KERR AVE

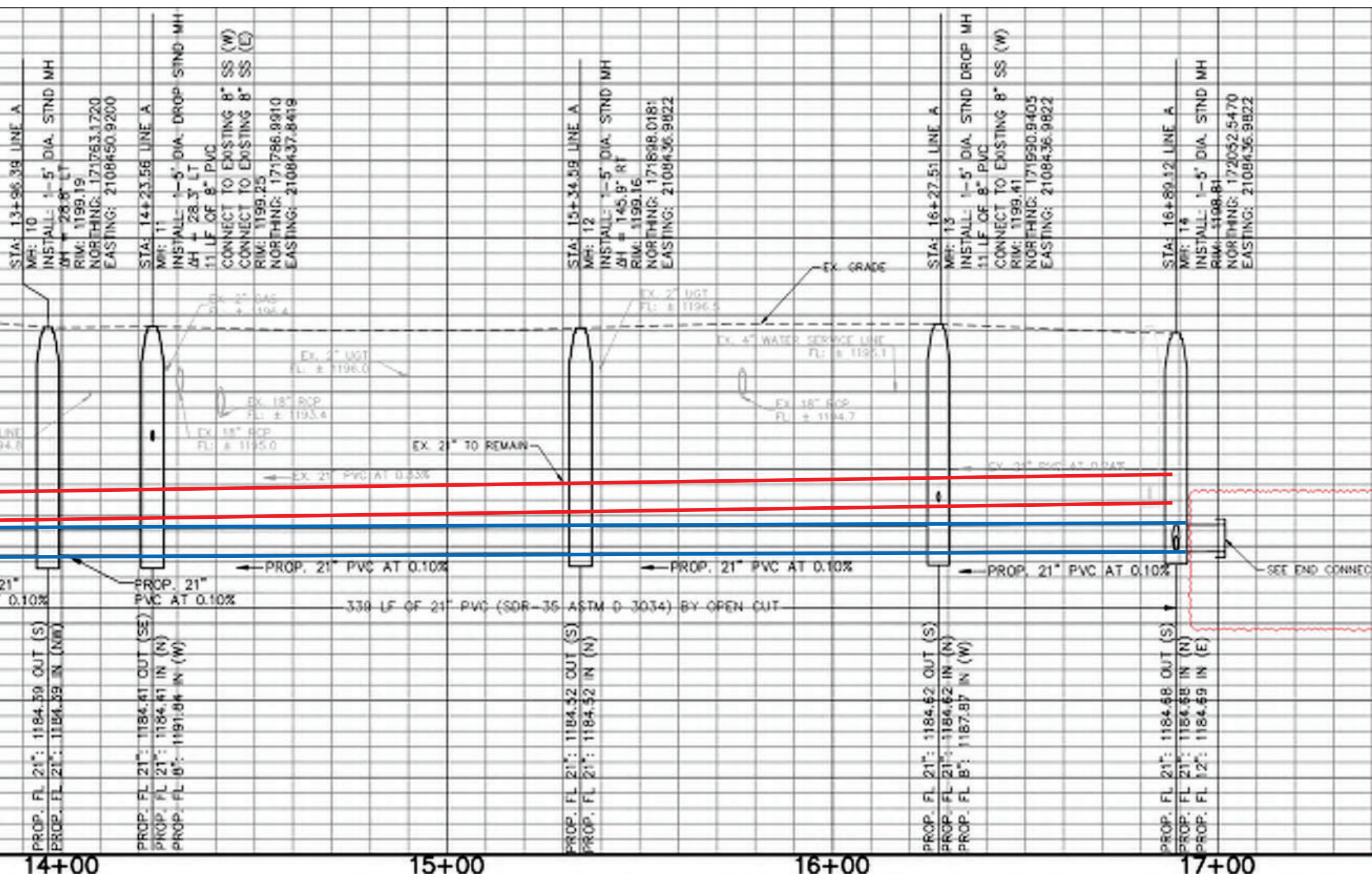
NW 4TH STREET

12" LINE B

WESTERN AVE

EX 21" SEWER

21" LINE A



# The Fast and Furious

- Survey and design
- Deliverable approach
- Flexibility and adaptability
- Room for unknowns



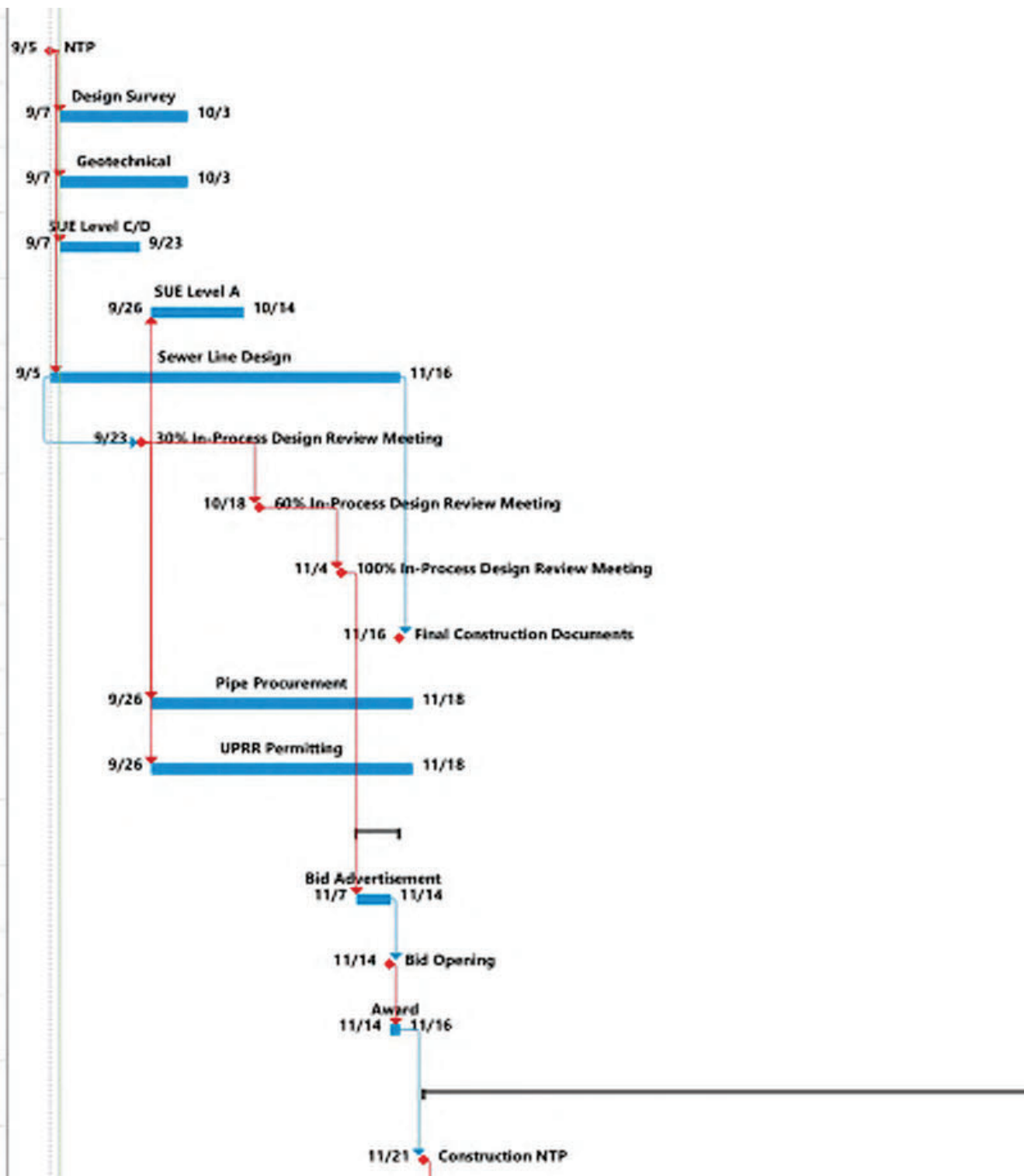
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2	NTP	0 days	Mon 9/5/22	Mon 9/5/22	
3	Design Survey	3.7 wks	Wed 9/7/22	Mon 10/3/22	2FS+2 days
4	Geotechnical	3.7 wks	Wed 9/7/22	Mon 10/3/22	2FS+2 days
5	SUE Level C/D	2.5 wks	Wed 9/7/22	Fri 9/23/22	2FS+2 days
6	SUE Level A	3 wks	Mon 9/26/22	Fri 10/14/22	8
7	Sewer Line Design	10.5 wks	Mon 9/5/22	Wed 11/16/22	2
8	30% In-Process Design Review Meeting	0 days	Fri 9/23/22	Fri 9/23/22	7SS+3 wks
9	60% In-Process Design Review Meeting	0 days	Tue 10/18/22	Tue 10/18/22	8FS+3.3 wks
10	100% In-Process Design Review Meeting	0 days	Fri 11/4/22	Fri 11/4/22	9FS+2.6 wks
11	Final Construction Documents	0 days	Wed 11/16/22	Wed 11/16/22	7
12	Pipe Procurement	8 wks	Mon 9/26/22	Fri 11/18/22	8
13	UPRR Permitting	2 mos	Mon 9/26/22	Fri 11/18/22	8
14	Task 3 - Bidding	7 days	Mon 11/7/22	Wed 11/16/22	
15	Bid Advertisement	1 wk	Mon 11/7/22	Mon 11/14/22	10FS+1 day
16	Bid Opening	0 days	Mon 11/14/22	Mon 11/14/22	15
17	Award	2 days	Mon 11/14/22	Wed 11/16/22	16
18	Task 4 - CCA	180 days	Mon 11/21/22	Mon 7/31/23	
19	Construction NTP	0 days	Mon 11/21/22	Mon 11/21/22	17FS+3 days



# Navigating the Unknown

- Unexpected discoveries
- Quick thinking, teamwork, innovative solutions
- Adverse soil conditions



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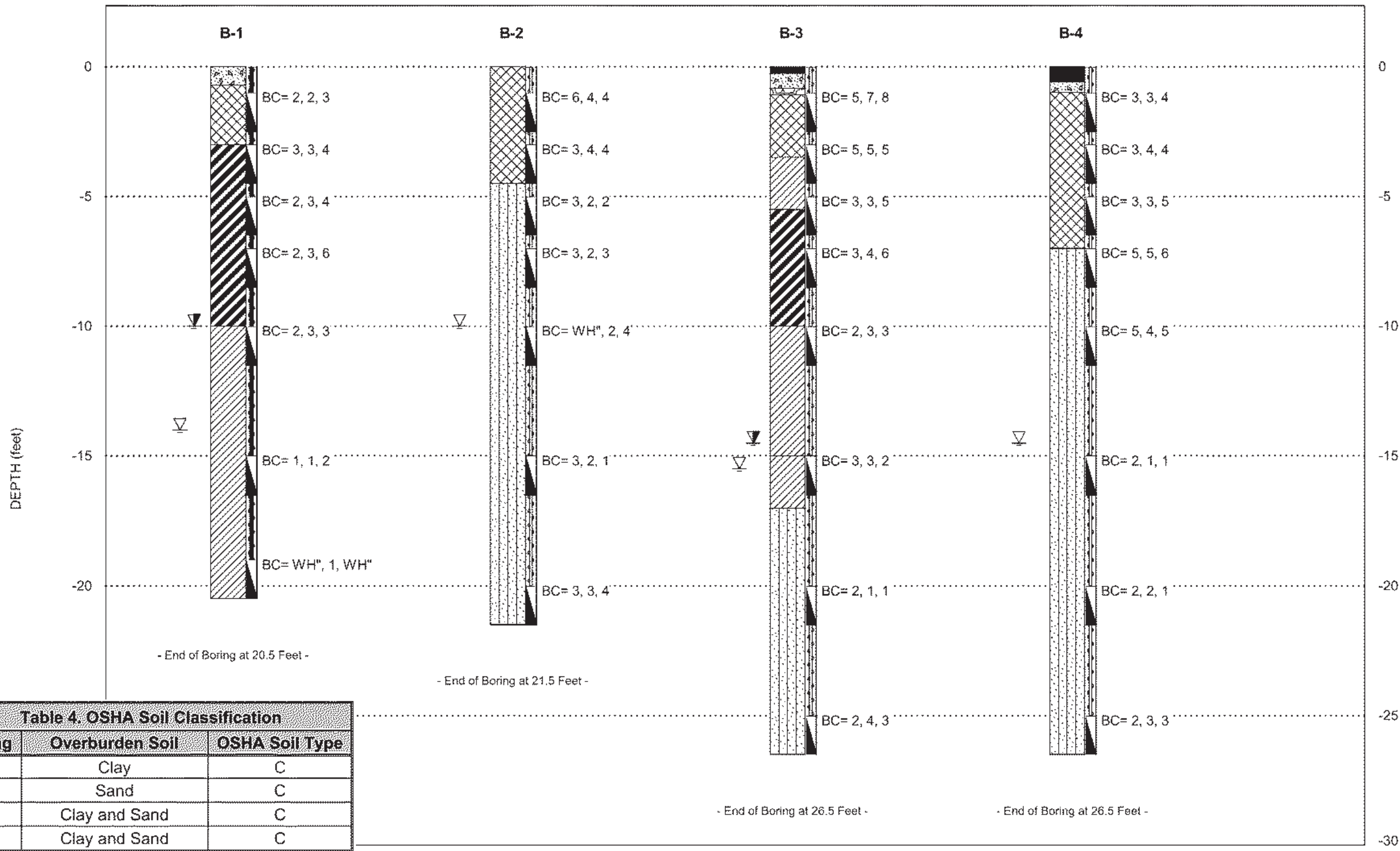


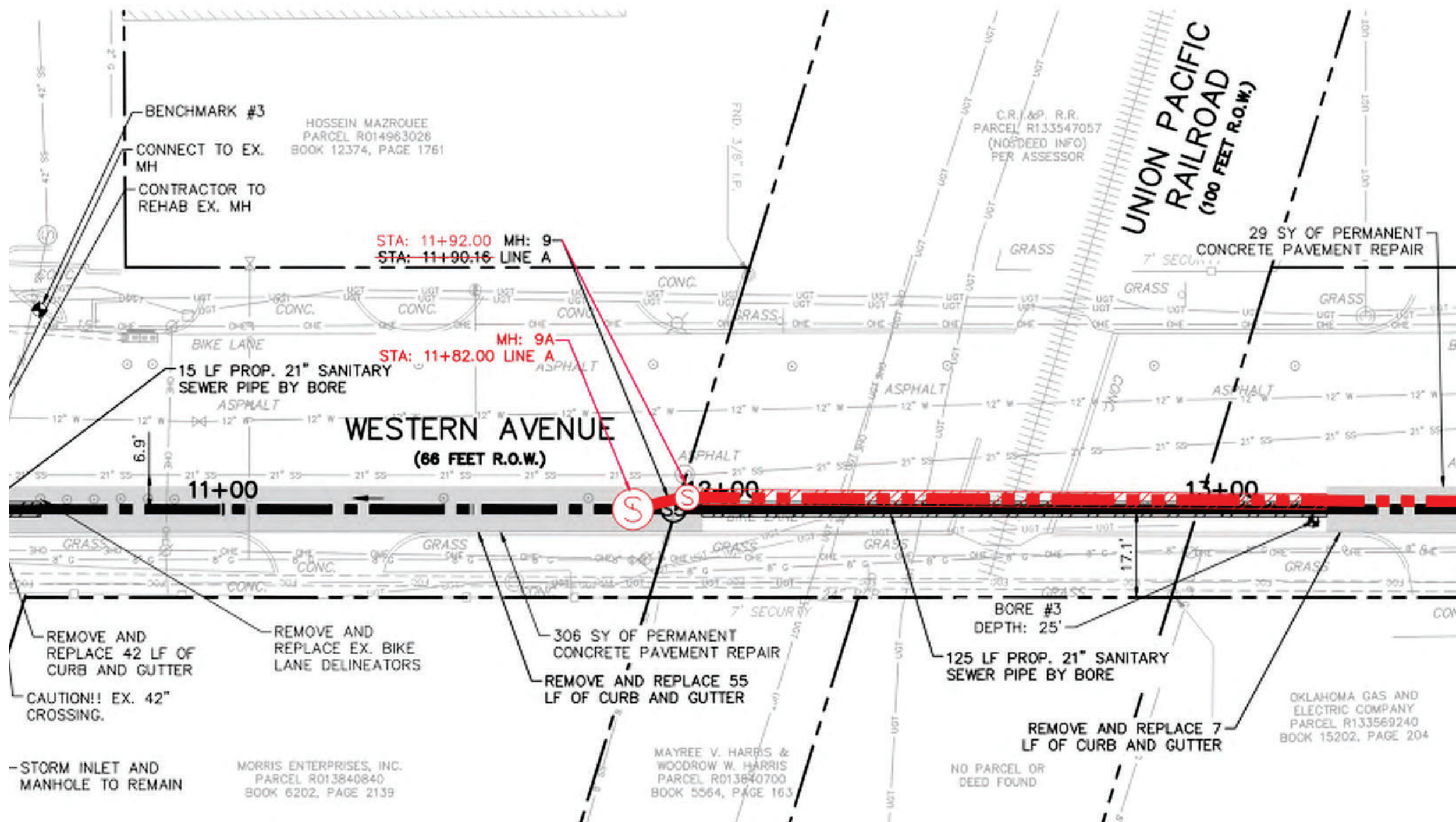














MATCHLINE STA: 4+00

CLASSEN  
(110 FEET)

CONTRACTOR TO REMOVE AND REPLACE  
80 SY OF GRAVEL PAVEMENT

BORE #2  
DEPTH: 20'

REMOVE AND REPLACE 57  
SY OF CONCRETE DRIVEWAY

REMOVE EX. MH

105 LF PROP. 12" SANITARY  
SEWER PIPE BY BORE

BRACE EX. PP

BRACE EX. PP

00

5+00

6+00

ALLEY (20 FEET)

ISLAND VIEW ENTERPRISES, LLC  
PARCEL R133589250  
BOOK 10720, PAGE 361

MH: 15  
STA: 4+47.03 LINE B

REPLACE EX. MH  
SEE NOTE 3.

CONTRACTOR TO  
REHAB MH IF CANNOT  
REPLACE

CONTRACTOR TO REESTABLISH  
SERVICE CONNECTIONS

CONTRACTOR TO REVEGETATE  
REMAINING ALLEY LIMITS

REMOVE EX. 8"  
SANITARY SEWER

BRACE EX. PP

BRACE EX. PP

NO PARCEL OR  
DEED FOUND  
(00&F???)

↓ ROBERT S KERR AVE

12" SANITARY SEWER LINE B

IN AREA.  
TIFY ONG TWO  
CONSTRUCTION.

CP MH

(S)

# Coordinating the Chaos

- Streets and Traffic Divisions
- Full street shutdown
- Water main break
- Working with multiple departments



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# Lessons Learned

- Teamwork and collaboration
- Prepare for the unexpected
- Stay positive & solution oriented



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# Conclusion

- Henry Ford: "Coming together is a beginning, staying together is progress, and working together is success."



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# THANK YOU!

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