

CONTRACT AWARD – REHABILITATE MATANZAS SIPHON

Board of Public Utilities Board Meeting:
July 18, 2019

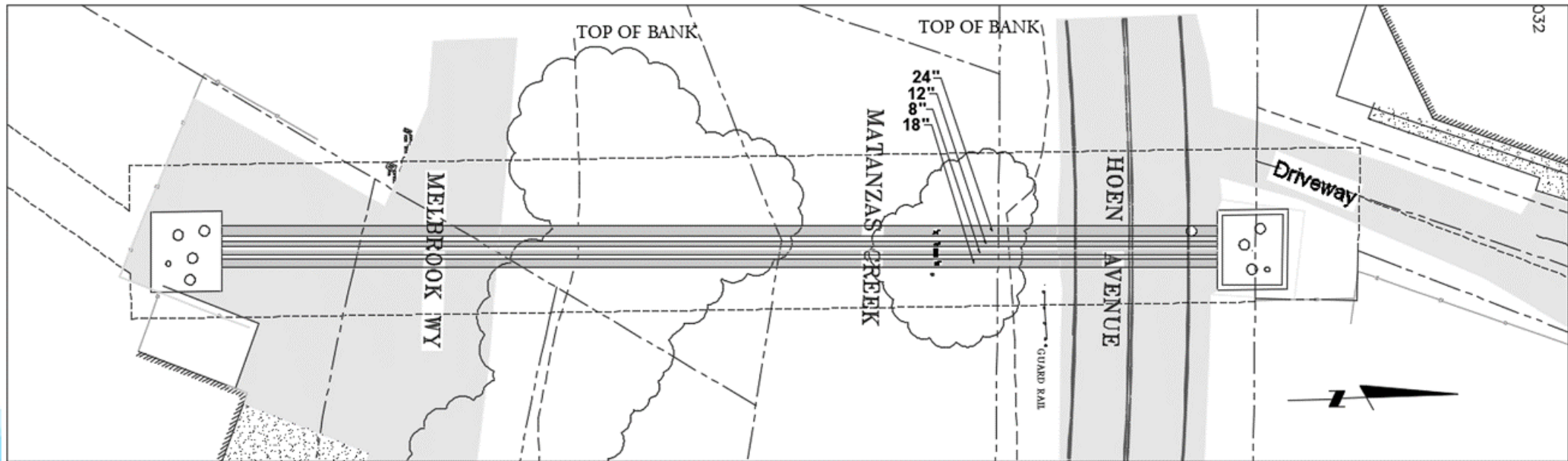
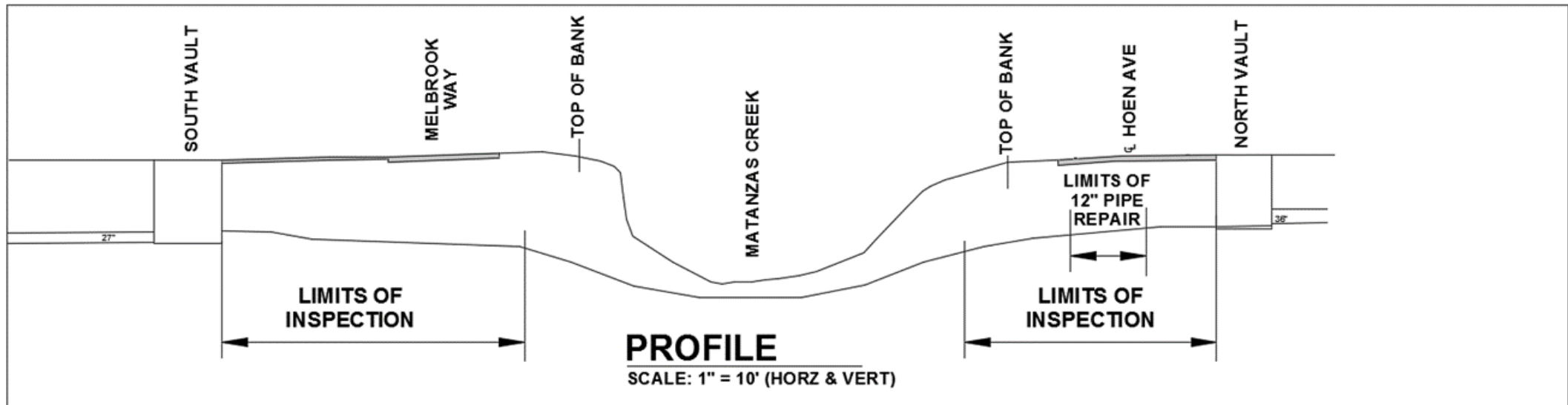
Lori Urbanek, Deputy Director
Transportation and Public Works

Joe Schiavone, Deputy Director
Water

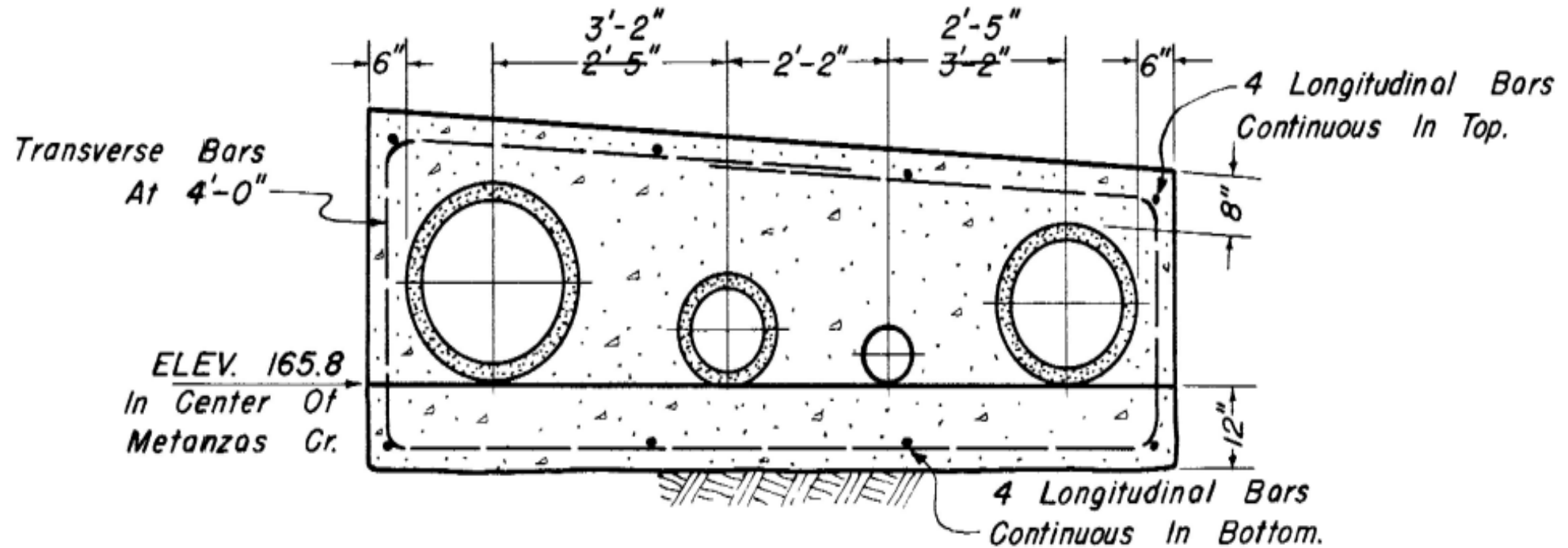


OUR FUTURE IN EVERY DROP

Matanzas Siphon Description



Matanzas Siphon Description



TYPICAL CONCRETE ENCASEMENT
METANZAS CREEK SIPHON

Issue Discovered

- Cleaning Crew discovers blockage
- Only 12" barrel is impacted
- Infrastructure history
- Further investigation/repair needed



Initial Investigation

- Water Operations starts investigation
- Divert all flows from 12" barrel



Initial Investigation

- Crews begin the dewatering process
- CCTV barrel from upstream and downstream
- Determine the impacted portion of barrel



Excavation Begins



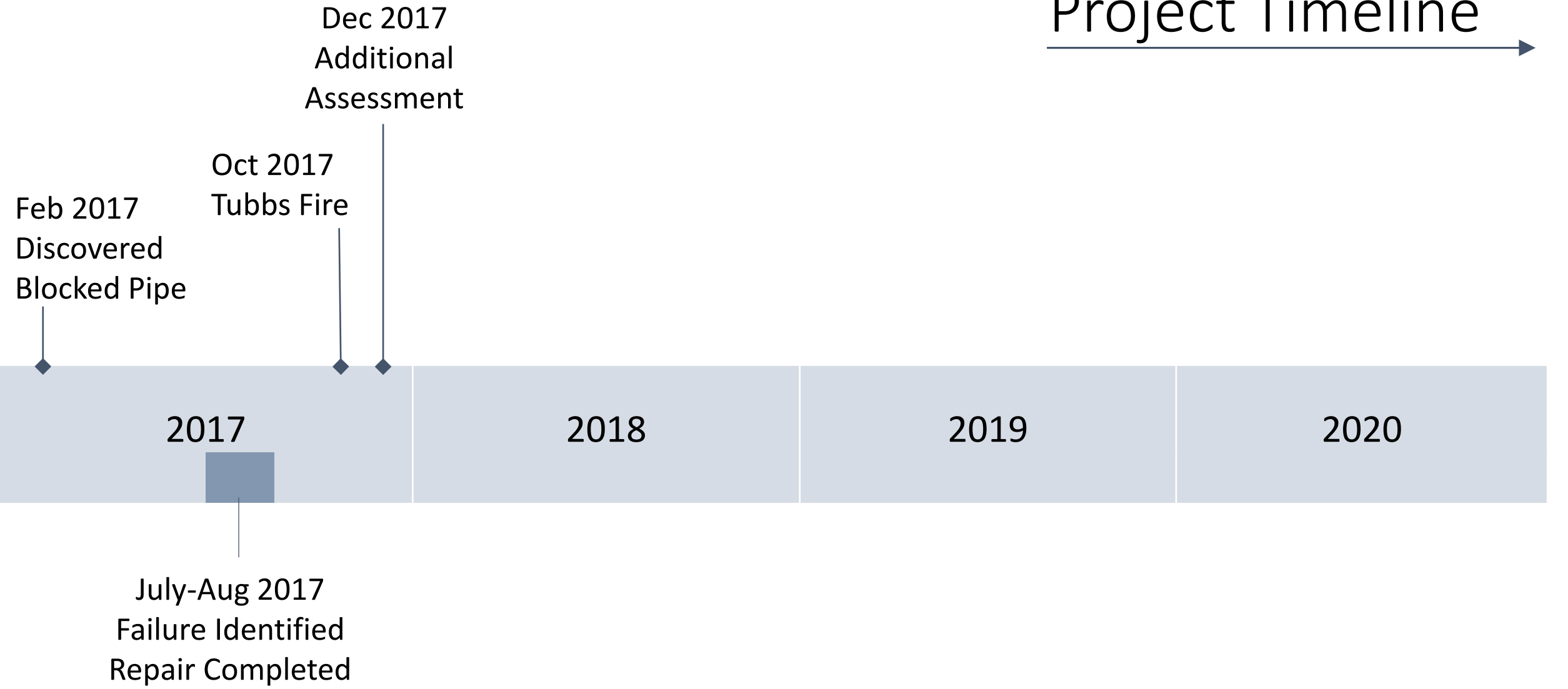
Excavation Begins



Large Repair



Project Timeline



Investigate 18"



25' In from Inlet Vault



28' In from Inlet Vault

Investigate 24"

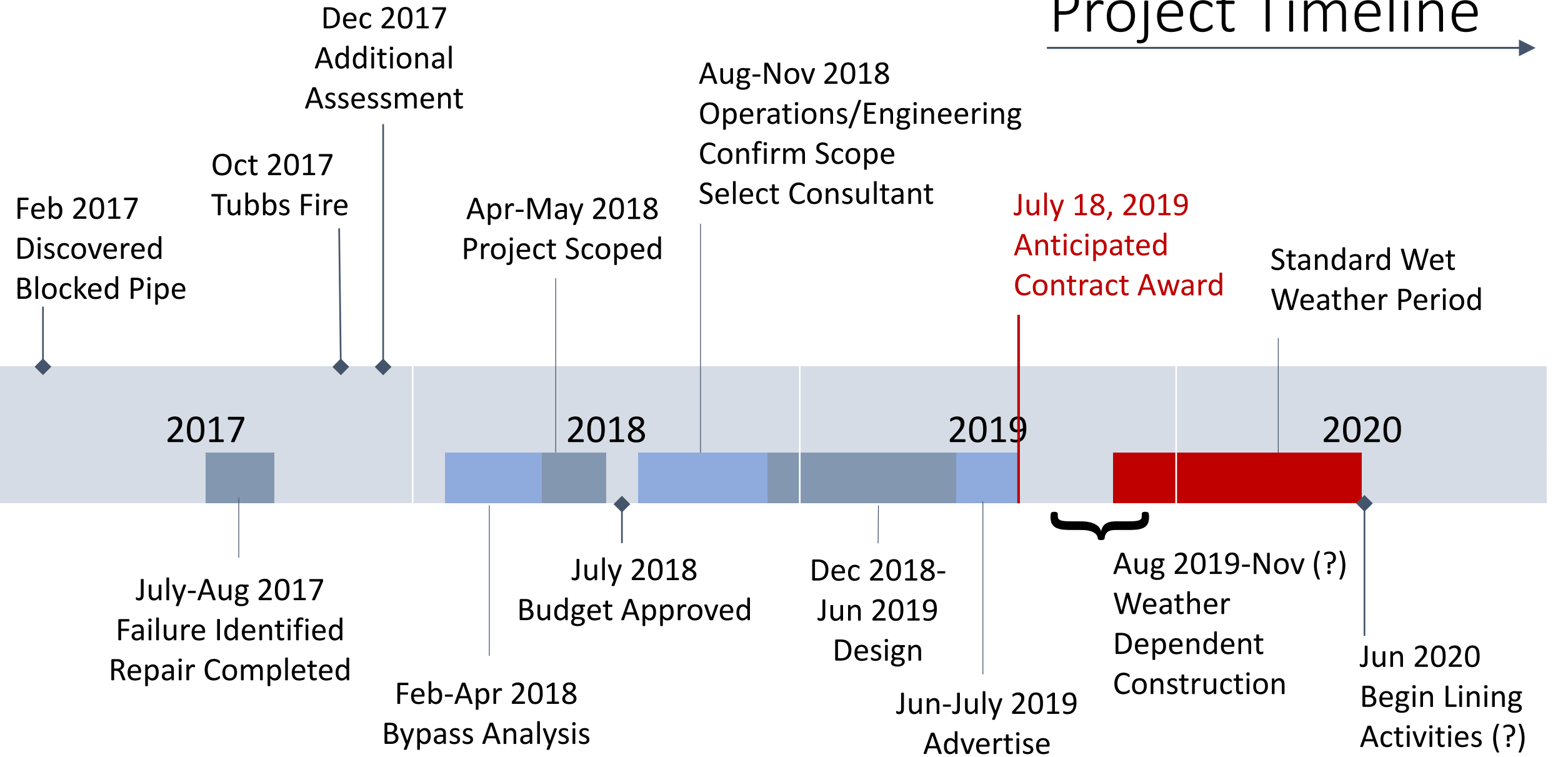


24' In from Inlet Vault



38' In from Inlet Vault

Project Timeline



Bid Summary – One Bidder

ENGINEERS ESTIMATE	\$2,001,897.00
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SAK CONSTRUCTION, LLC	\$3,449,500.00
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72.31% OVER ESTIMATE

Bid Abstract

Bid Item	Engineer's Estimate	SAK Bid Price
1 TRUNK SIPHON STRUCTURE REHABILITATION ALLOWANCE (F)	\$ 60,000.00	\$ 60,000.00
2 MOBILIZATION/DEMOBILIZATION	\$ 188,450.00	\$ 161,000.00
3 TRAFFIC CONTROL	\$ 13,552.00	\$ 174,000.00
4 12" CIPP LINER REHABILITATION - MATANZAS SIPHON	\$ 55,440.00	\$ 165,100.00
5 18" CIPP LINER REHABILITATION - MATANZAS SIPHON	\$ 77,616.00	\$ 204,700.00
6 24" CIPP LINER REHABILITATION - MATANZAS SIPHON	\$ 94,248.00	\$ 246,000.00
7 BYPASS PIPING SYSTEM MATANZAS SIPHON	\$ 215,000.00	\$ 750,000.00
8 BYPASS PUMPING MOBILIZATION AND DEMOBILIZATION - PUMP STA. #1 - MATANZAS SIPHON	\$ 247,200.00	\$ 40,800.00
9 BYPASS PUMPING MOBILIZATION AND DEMOBILIZATION - PUMP STA. #2 AND #3 - MATANZAS SIPHON	\$ 19,377.00	\$ 6,900.00
10 BYPASS PUMPING - PUMP STA. #1 - MATANZAS SIPHON WET WEATHER FLOW OPERATIONAL	\$ 341,200.00	\$ 442,000.00
11 BYPASS PUMPING - PUMP STA. #1 - MATANZAS SIPHON WET WEATHER FLOW STAND BY	\$ 161,114.00	\$ 298,000.00
12 BYPASS PUMPING - PUMP STA. #1 - MATANZAS SIPHON	\$ 497,700.00	\$ 663,000.00
13 BYPASS PUMPING - PUMP STA. #2 AND #3 - MATANZAS SIPHON	\$ 31,000.00	\$ 238,000.00
	\$ 2,001,897.00	\$ 3,449,500.00

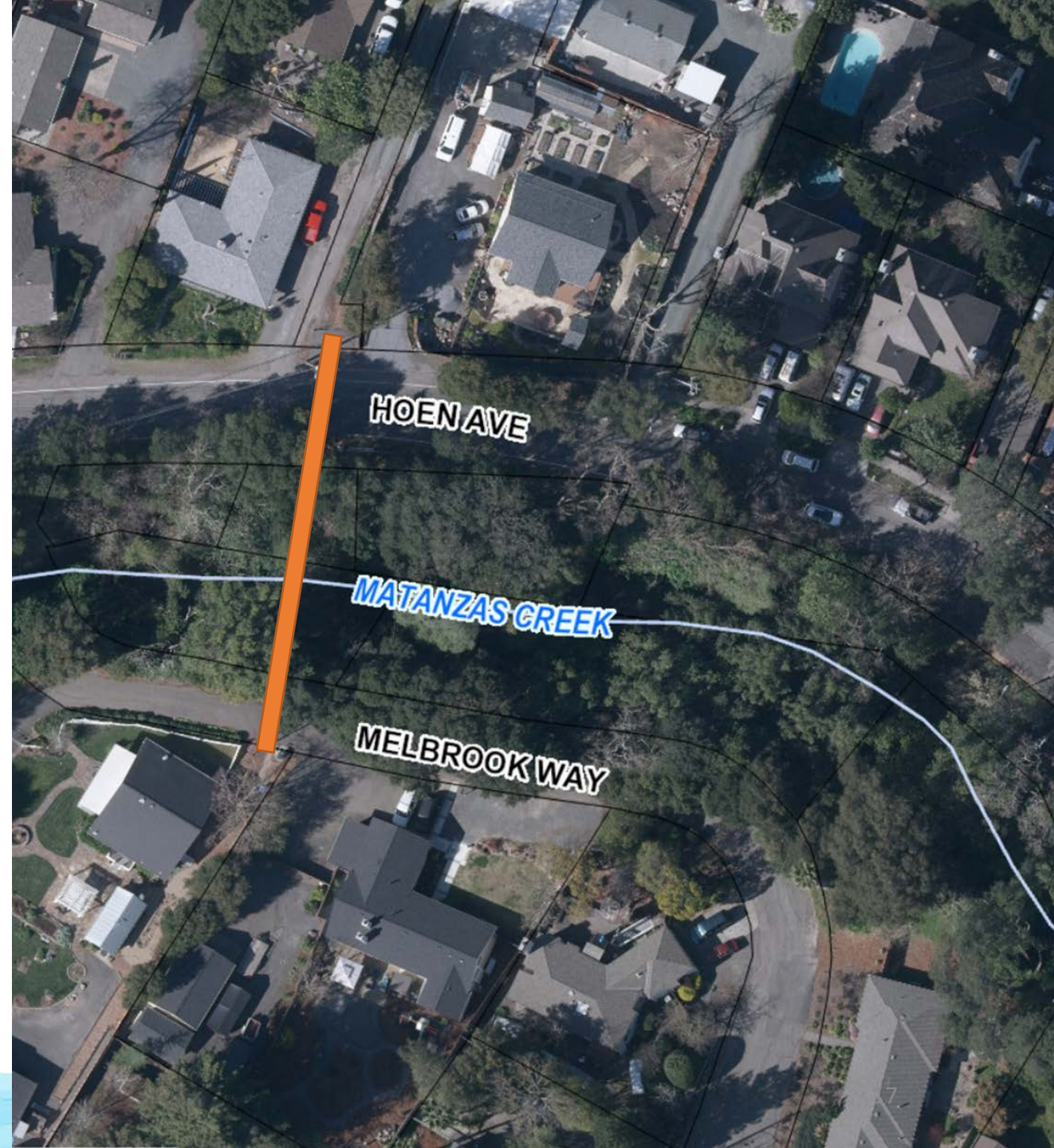
Bid Analysis

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Estimated Cost of Wet Weather Operations \$740,000.00

Bypass System

- Close Proximity to Homes
- Bypass Pumps
- Traffic Control – One Way
- Pumping Operations 24/7



CIPP Operations



CIPP Operations



CIPP Operations



Pumping Operations



Risk

- Pipe Failure
 - Sanitary Sewer Overflows
 - Discharge to the creek
 - Public Health and Safety
- Extensive delays without a contract in place
- Local Operations does not have equipment to bypass the system
- Delay to lining projects schedule on the same trunk next year
- Increased costs in emergency situations



RECOMMENDATION

- It is recommended by the Transportation and Public Works Department and the Water Department that the Board of Public Utilities, by motion, approve the project and award Construction Contract No. C02190 in the amount of \$3,449,500.00 to the lowest responsive bidder, SAK Construction, LLC, of O'Fallon, Missouri, to Rehabilitate Matanzas Siphons, approve a 15% contingency, and authorize a total contract amount of \$3,996,925.00.

Questions?

