



Orbit
Mariner South

Dual 20" Pipelines from Mont Belvieu to Nederland, Texas



Orbit
Mariner South

Orbit – Export of Ethane
Mariner South – Export of Propane



Scope of Work



Scope of Work

135 Miles of 20" Pipeline



Scope of Work

135 Miles of 20" Pipeline
Directional Drills / Road Bores



Scope of Work

135 Miles of 20" Pipeline
Directional Drills / Road Bores
Push Sections – Marsh (Trinity River Bottom)



Scope of Work

135 Miles of 20" Pipeline
Directional Drills / Road Bores
Push Sections – Marsh (Trinity River Bottom)
Matting

Scope of Work

135 Miles of 20" Pipeline

Directional Drills / Road Bores

Push Sections – Marsh (Trinity River Bottom)

Matting

Mainline Block Valves

Scope of Work

135 Miles of 20" Pipeline

Directional Drills / Road Bores

Push Sections – Marsh (Trinity River Bottom)

Matting

Mainline Block Valves

Facilities at Mont Belvieu Storage / Nederland Terminal



Original Construction Schedule



Original Construction Schedule

Mobilize ----- November 4, 2019



Original Construction Schedule

Mobilize ----- November 4, 2019

Mechanical Completion ----- October 31, 2020



Original Construction Schedule

Mobilize ----- November 4, 2019

Mechanical Completion ----- October 31, 2020

Construction Calendar Days ----- 360



Revised Construction Schedule



Revised Construction Schedule

Mobilize ----- January 6, 2020



Revised Construction Schedule

Mobilize ----- January 6, 2020

Mechanical Completion ----- November 16, 2020

Revised Construction Schedule

Mobilize ----- January 6, 2020

Mechanical Completion ----- November 16, 2020

Calendar Days ----- 315

Revised Construction Schedule

Mobilize ----- January 6, 2020

Mechanical Completion ----- November 16, 2020

Calendar Days ----- 315

Revised Schedule by 45 Days



Issues to Overcome During Construction



Issues to Overcome During Construction

Reduced Construction Schedule by 45 Days

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Corona Virus Pandemic



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Three (3) Named Storms

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Crystobal, Laura and Beta

Issues to Overcome During Construction

Reduced Construction Schedule by 45 Days

Corona Virus Pandemic

Three (3) Named Storms

Crystobal, Laura and Beta

10 Complete Missed Days

Issues to Overcome During Construction

Reduced Construction Schedule by 45 Days

Corona Virus Pandemic

Three (3) Named Storms

Cristobal, Laura and Beta

10 Complete Missed Days

62 Weather Days

Safety Statistics

Total Hours
Worked: 1,201,806

INJURY STATISTICS

(TRIR) Total Recordable Incident Rate: 0.41

Total Recordable Cases: 2

Total injuries, Recordable and
First Aid Combined: 16



OSHA

Number of OSHA Inspections:	1
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Number of OSHA Violations:	0
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Matting Construction / Environmental

Over 90,000 Mats Were Utilized on the Project











Directional Drills/Bores



Directional Drills/Bores

241 Horizontal Directional Drills / Bores



Directional Drills/Bores

241 Horizontal Directional Drills / Bores
Longest Just Under 7200' HDD



Directional Drills/Bores

241 Horizontal Directional Drills / Bores
Longest Just Under 7200' HDD
Utilized 9 Rigs



Directional Drills/Bores

241 Horizontal Directional Drills / Bores

Longest Just Under 7200' HDD

Utilized 9 Rigs

35.7 Miles of Drilled / Bored Crossings (just over 25% of total footage)

Directional Drills/Bores

241 Horizontal Directional Drills / Bores

Longest Just Under 7200' HDD

Utilized 9 Rigs

35.7 Miles of Drilled / Bored Crossings (just over 25% of total footage)

Pulled an Average of 23 Crossings / Month

Directional Drills/Bores

241 Horizontal Directional Drills / Bores

Longest Just Under 7200' HDD

Utilized 9 Rigs

35.7 Miles of Drilled / Bored Crossings (just over 25% of total footage)

Pulled an Average of 23 Crossings / Month

124 Foreign Line Crossings







































135 Miles of 20" Pipeline























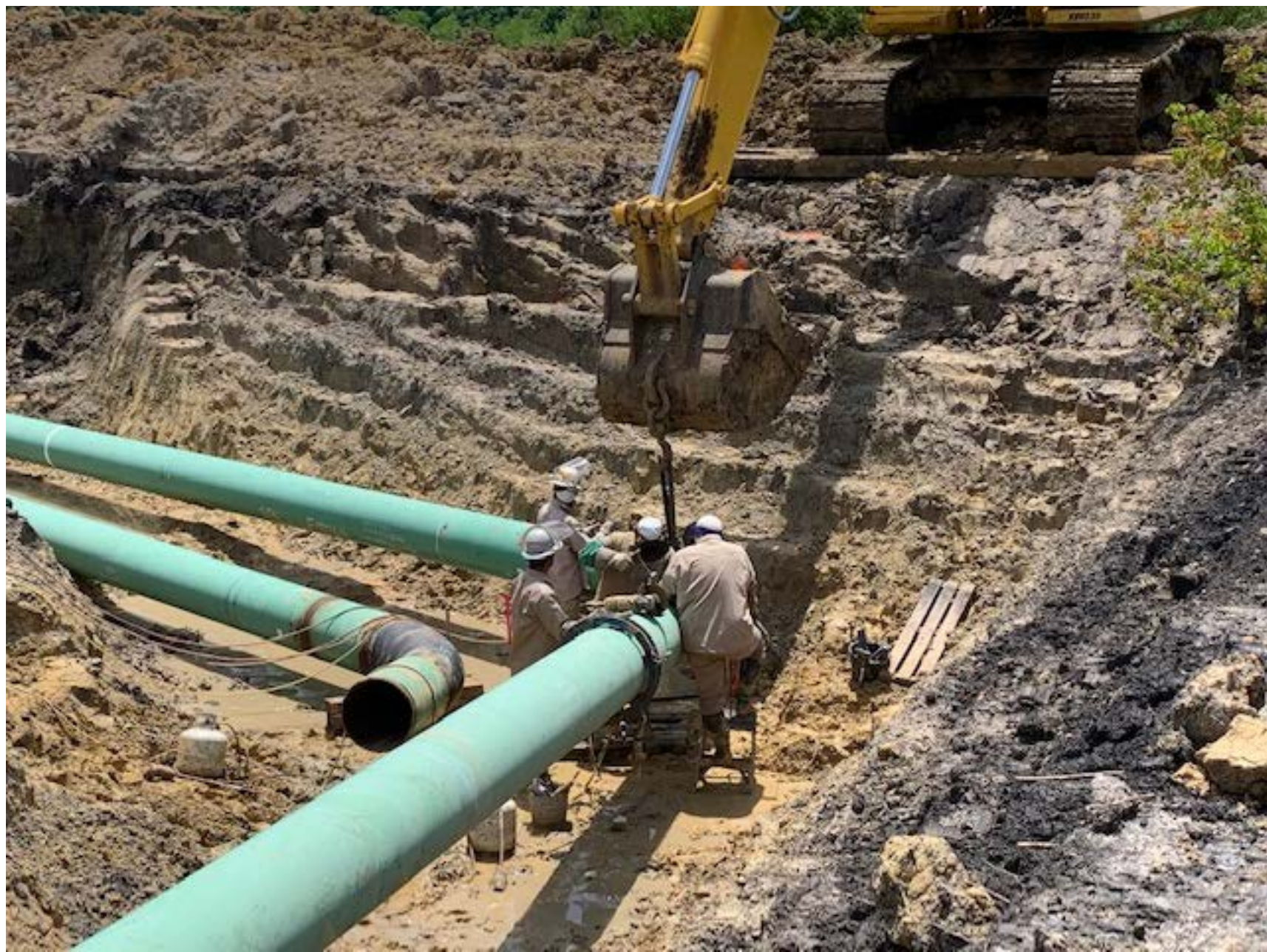






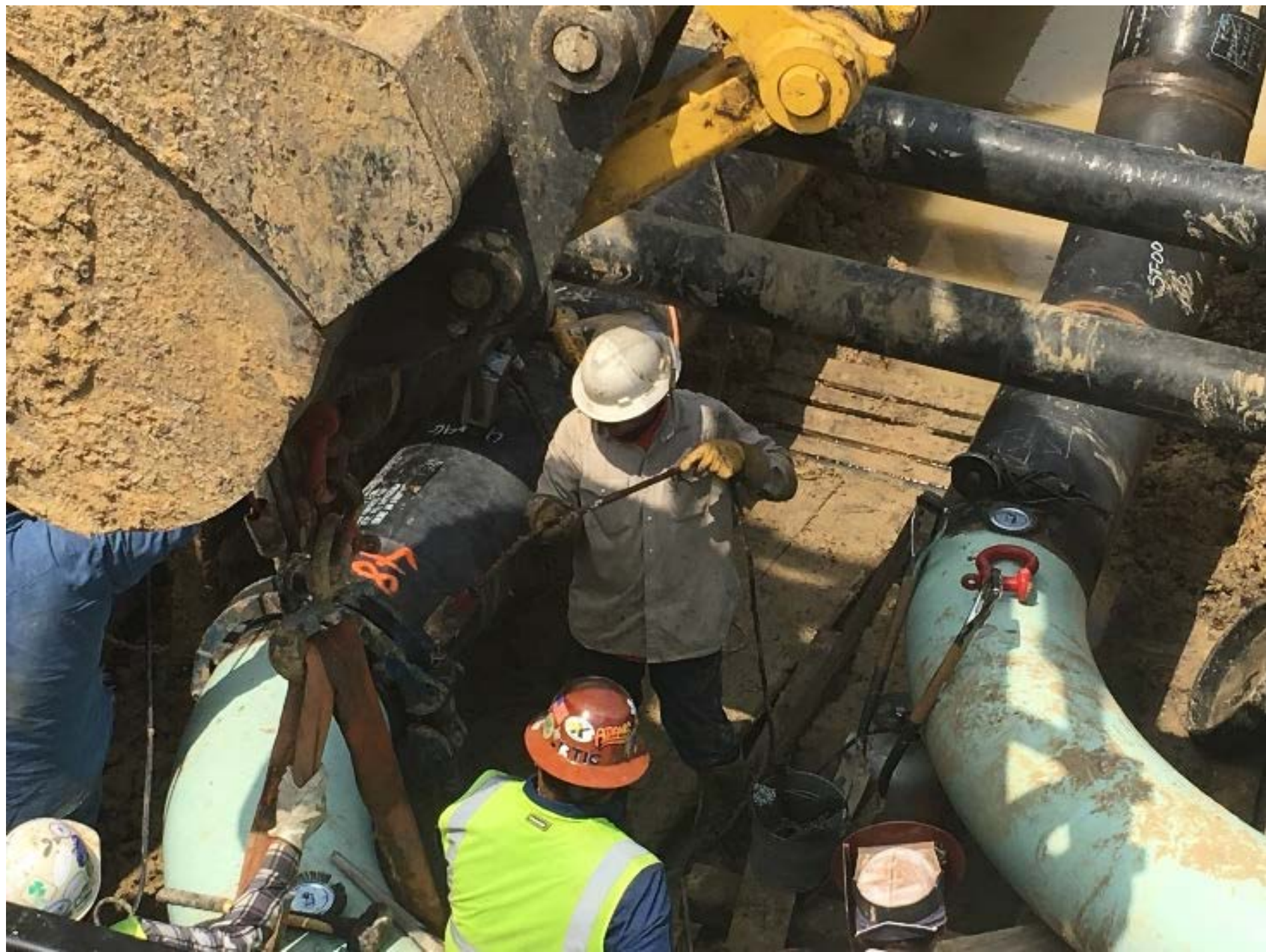
















































Concrete Coated Pipe

Just over 21,000 Feet



















Push Sections (Marsh)

Just under 10,000' of Push Sections in the Trinity River Bottom
Depth of water on ROW reached approximately 8'?

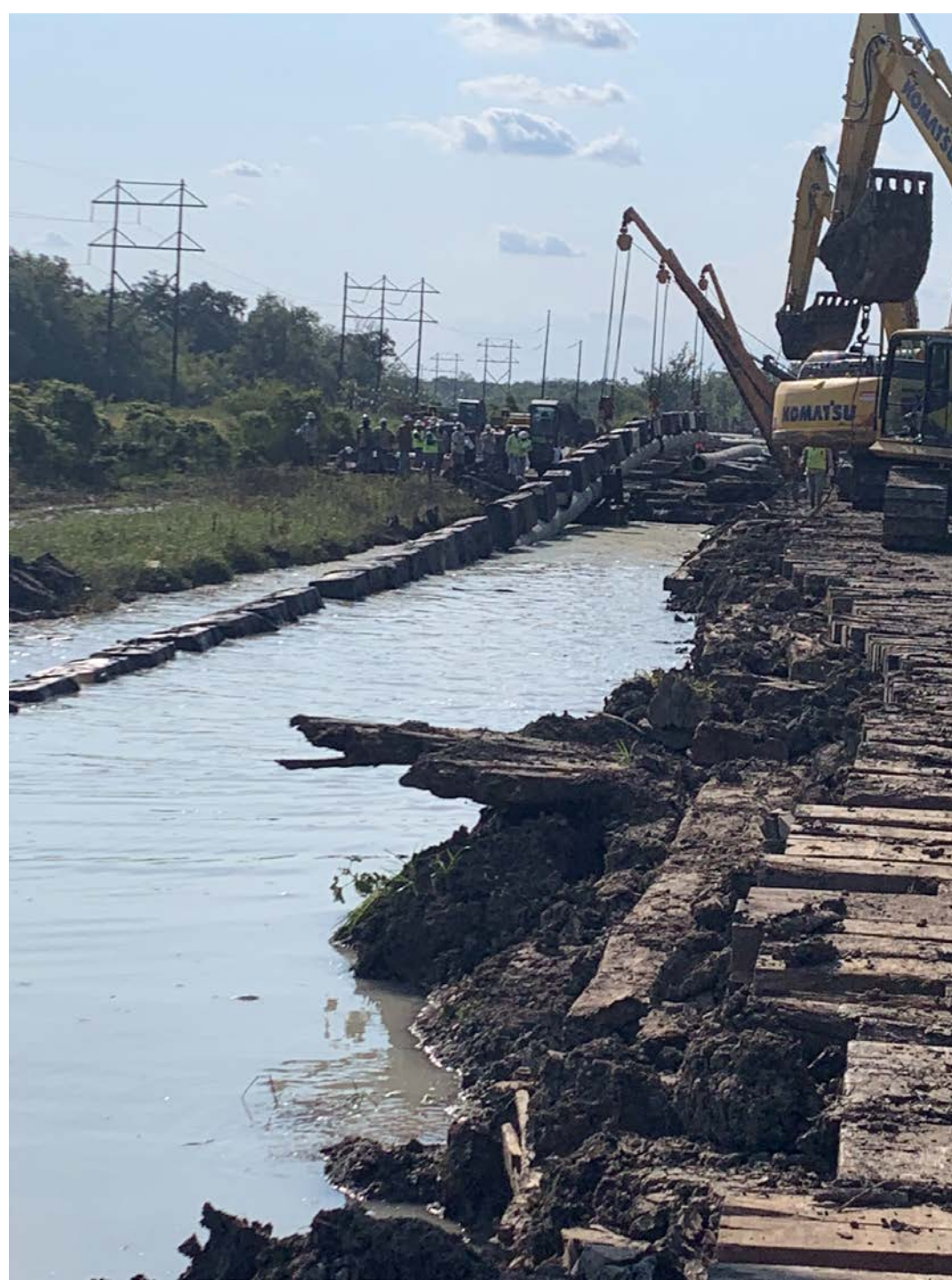


























Mainline Block Valves (MLBV)

21



ORBIT

MLV-20 Hatcherville Rd



ORBIT

MLV-20 Hatcherville Rd



ORBIT

MLV-20 Hatcherville Rd























Facilities Pipeline

Mont Belvieu / Nederland

























John Lohman 713.725.7458
Sam Samudio 832.364.9323