

SEWER INTERCEPTOR PROJECT

Public Meeting





September 25, 2018

MOLZENCORBIN ENGINEERS | ARCHITECTS | PLANNERS



D.T. Collins & Associates, PC

Project Background

- 2008 Flood Resulting in Damage to Sewer Interceptor
- Previous planning and 30% design effort focused on relocation of the existing interceptor
- Project budget greater than available funding
- Significant constructability concerns
- This Project Team hired to re-evaluate the project - find an alternative that accomplished primary goals:
 - Fix damaged pipeline (reducing I&I)
 - Provide infrastructure that is resistant to future flood damage
 - Bring the project within remainder of available funds



Sanitary Sewer Repair-Rehabilitation Project

Restoration of Existing Sewer Lines and Manholes

Trenchless Pipe Rehabilitation

Insitu Manhole Repair Lift Stations and Forcemains

Abandonment of Damaged and Vulnerable Locations

New Lift Stations and Forcemains to Convey Sewage

Hazard Mitigation and Stabilization for Sewer Lines

Protect River
Crossing Locations
of
Sewer Lines

Protect Sewer Lines
Parallel and
Proximate to the
River

Restoration of Existing Sewer Lines





- Trenchless Rehabilitation Methods:
 - ► Cured-In-Place Pipe
 - ► Thermoformed PVC
 - ► Spiral Wound PVC

Cured-In-Place Pipe (CIPP)





Thermoformed PVC





Spiral Wound PVC



35.2 ft.



Manhole Restoration

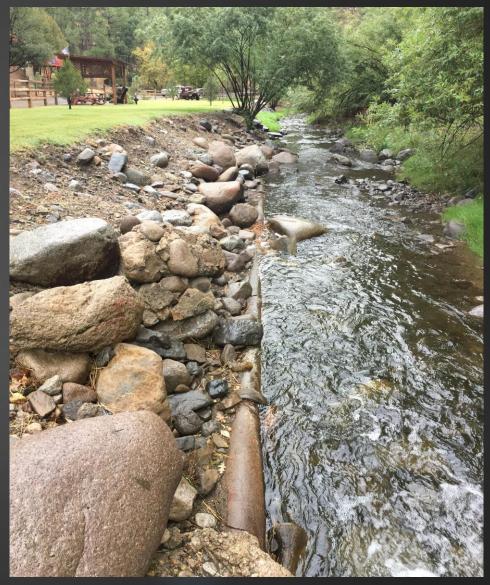


- Minimize replacement of manholes (less excavation)
- Improve accessibility for maintenance
- Reinforce structural integrity
- Prevent infiltration and inflow



Sewer Line Relocations





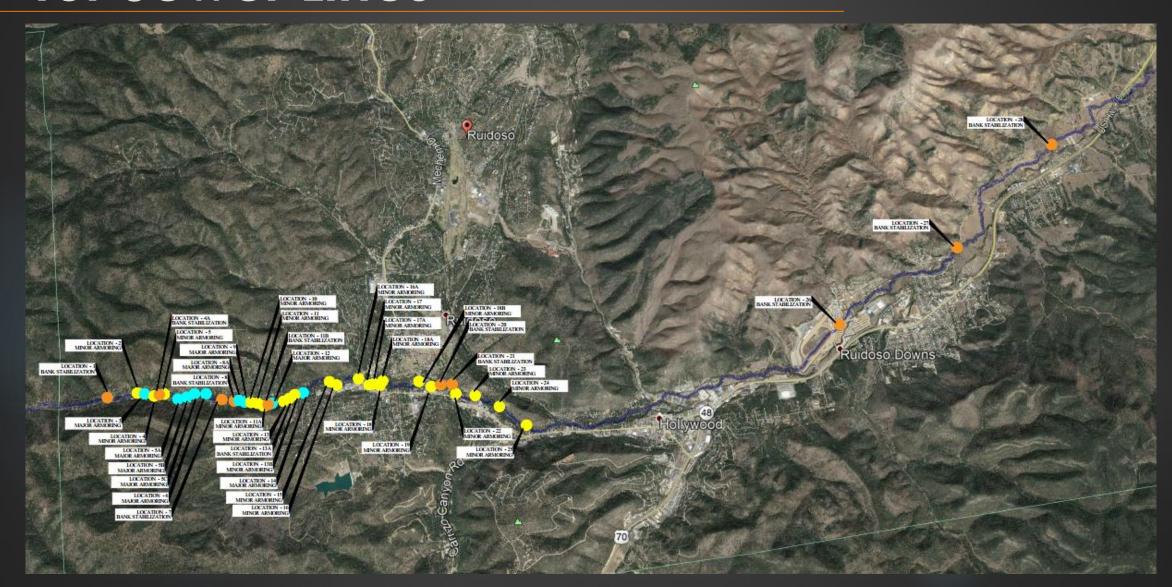
Lift Stations and Forcemains



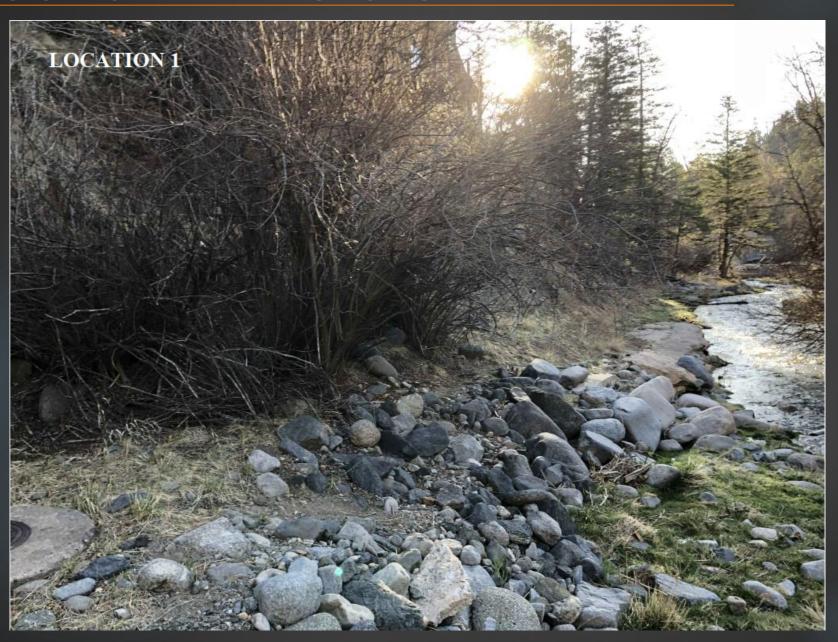




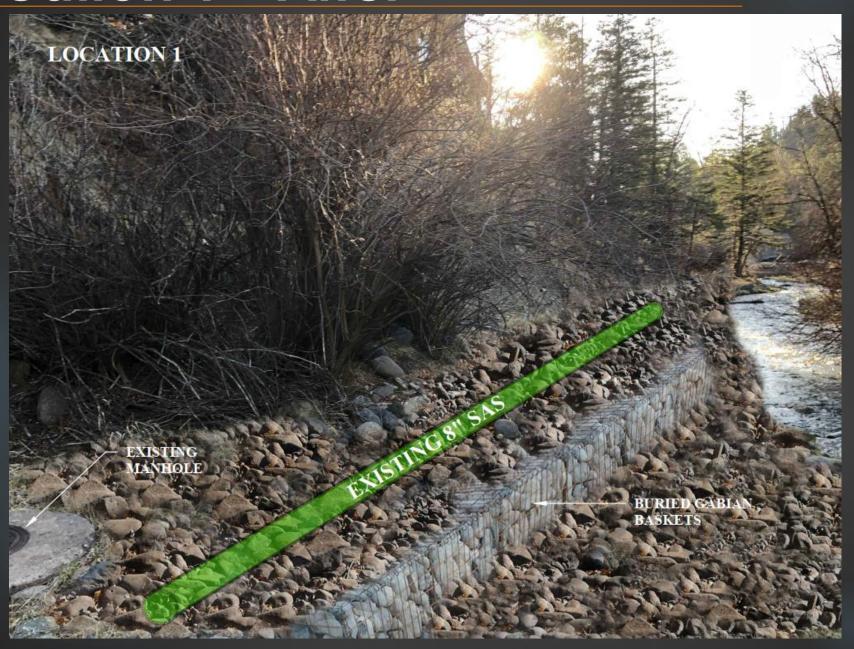
Hazard Mitigation and Stabilization for Sewer Lines



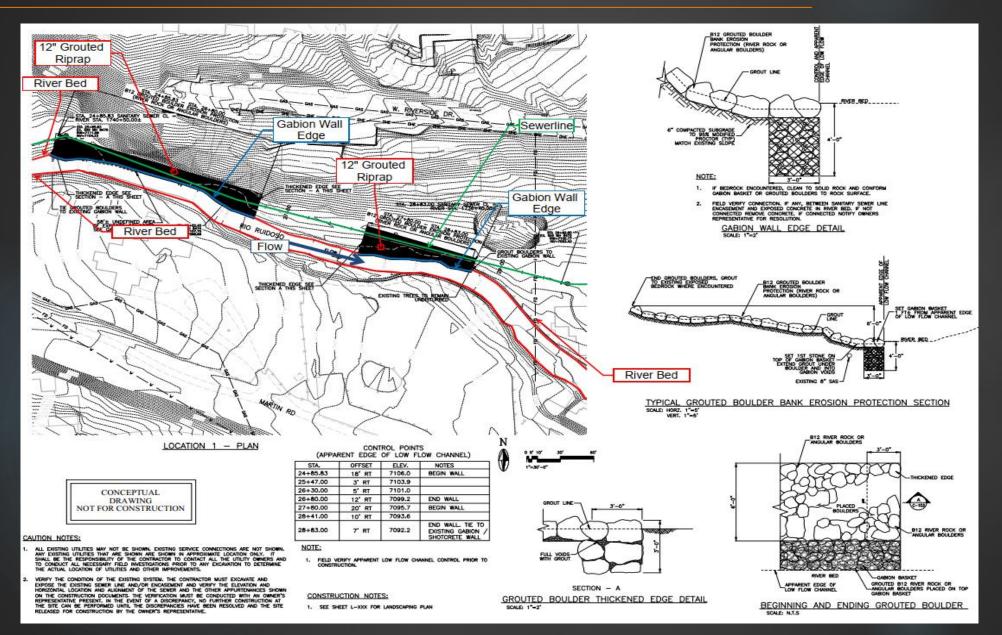
Location 1 - Before



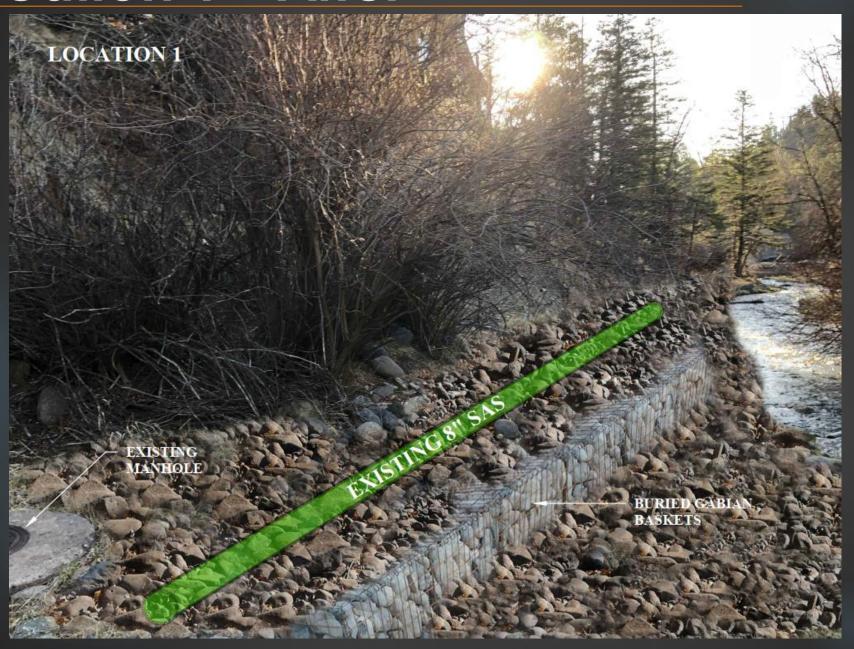
Location 1 - After



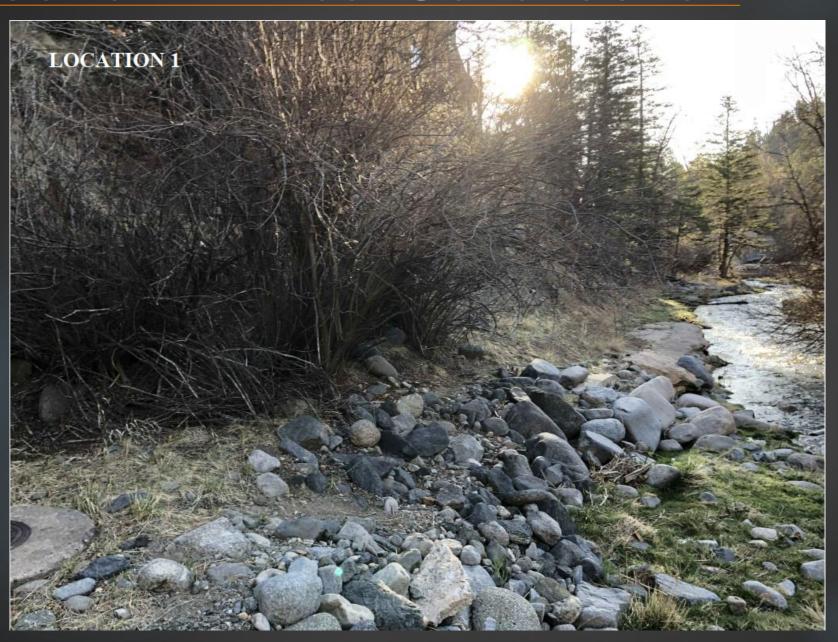
Location 1 – Bank Stabilization



Location 1 - After



Location 1 – Post Construction



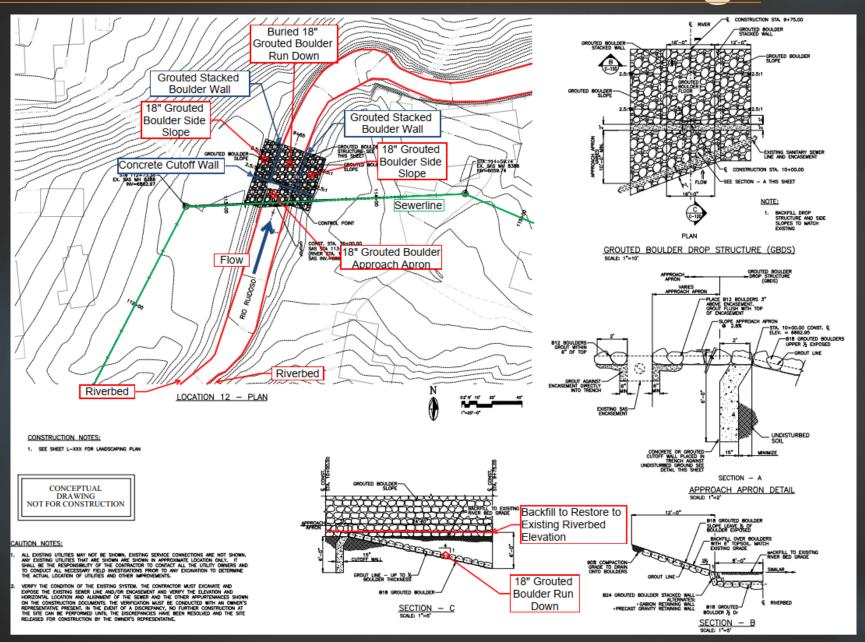
Location 12 - Before



Location 12 - After



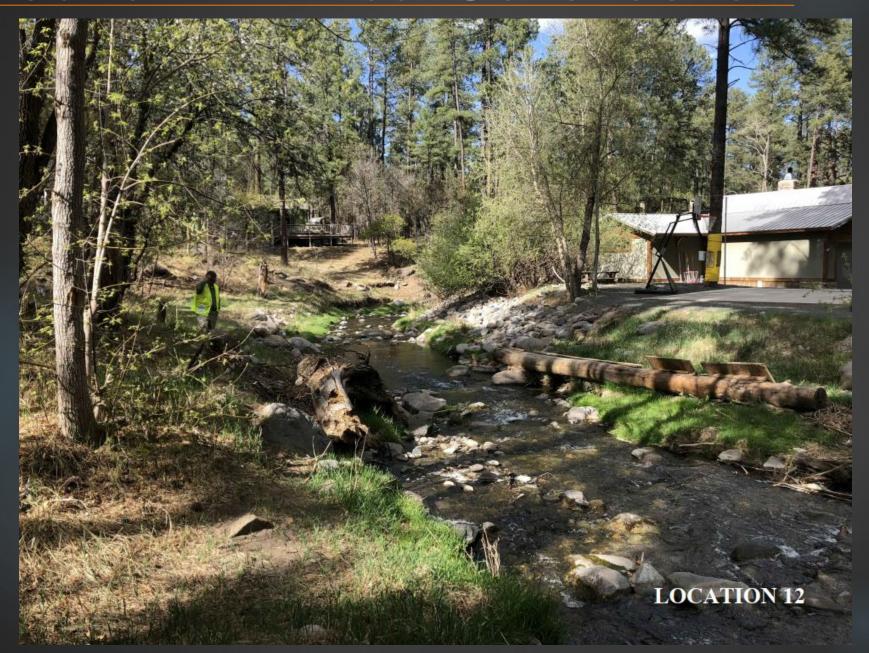
Location 12 – Minor Armoring



Location 12 - After



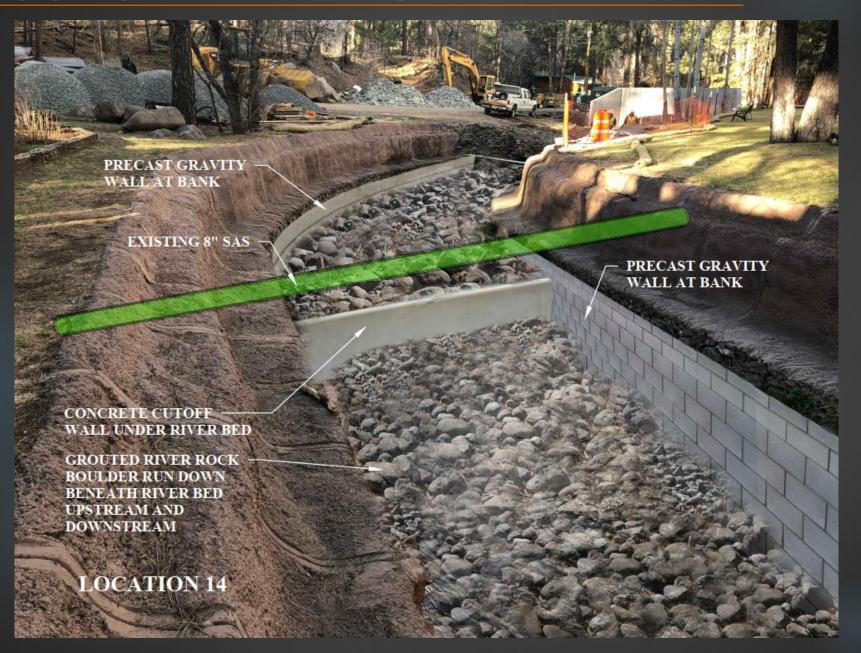
Location 12 – Post Construction



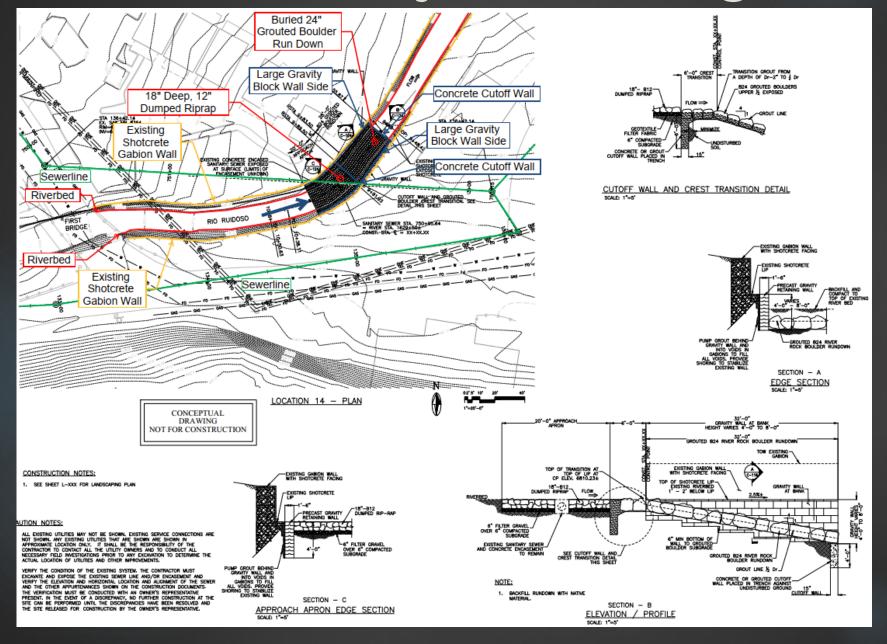
Location 14 - Before



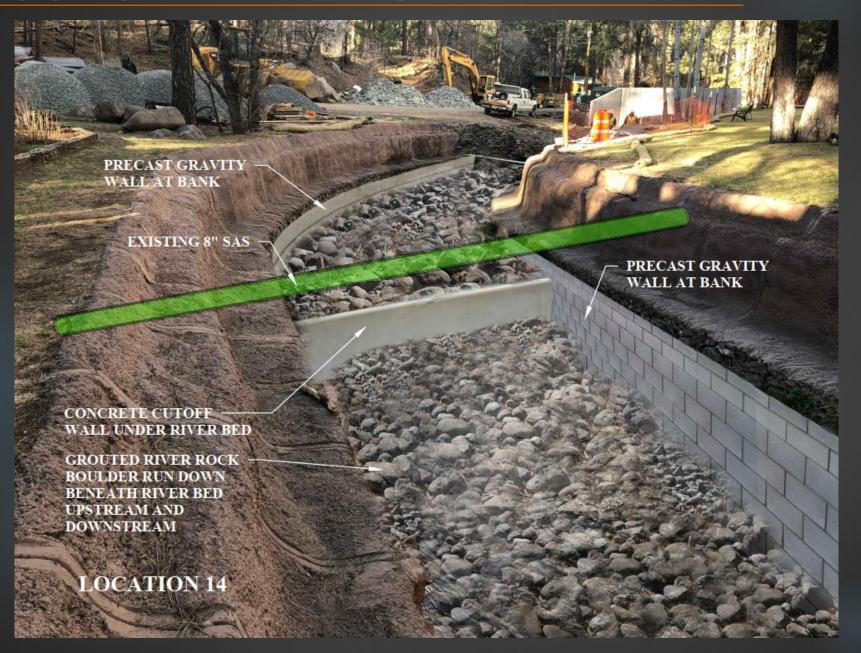
Location 14 - After



Location 14 – Major Armoring



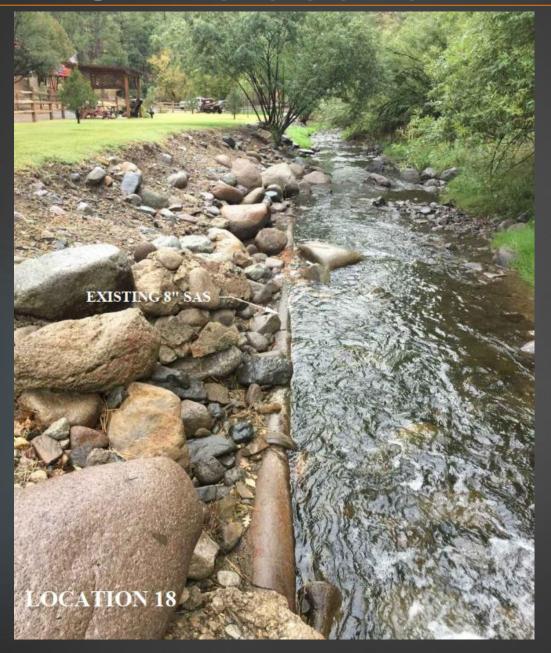
Location 14 - After



Location 14 – Post Construction



Location 18 – Relocation



Construction



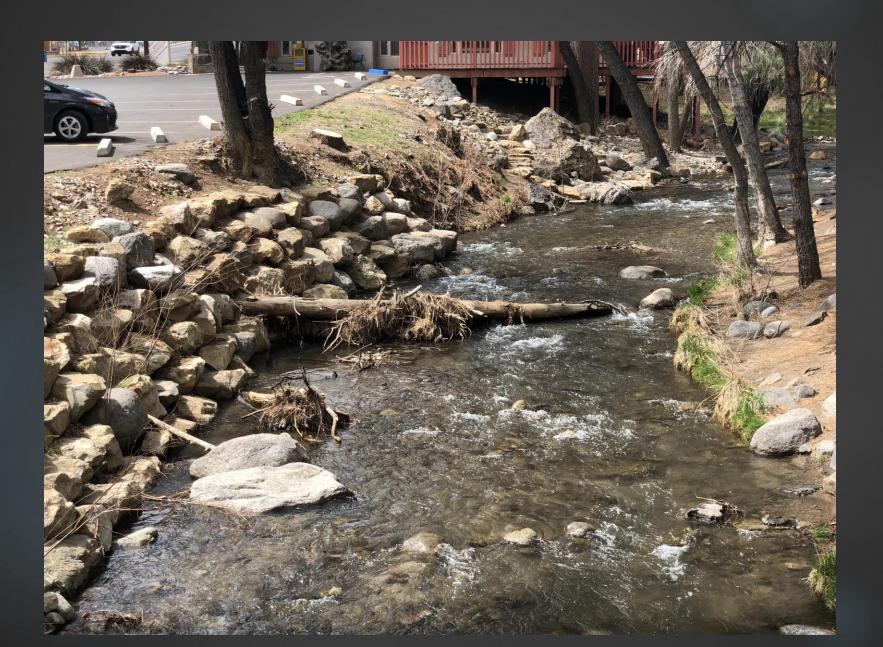
Construction



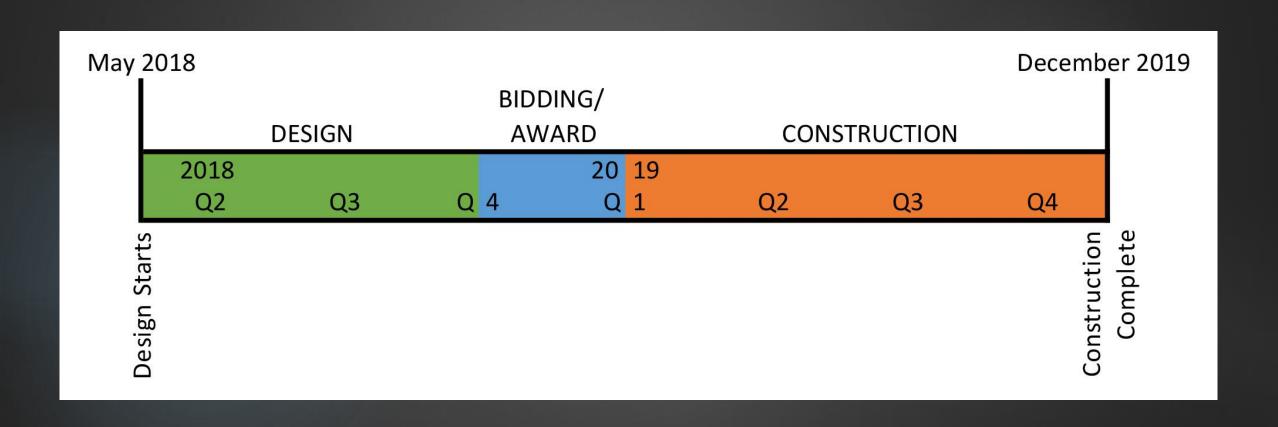
Construction



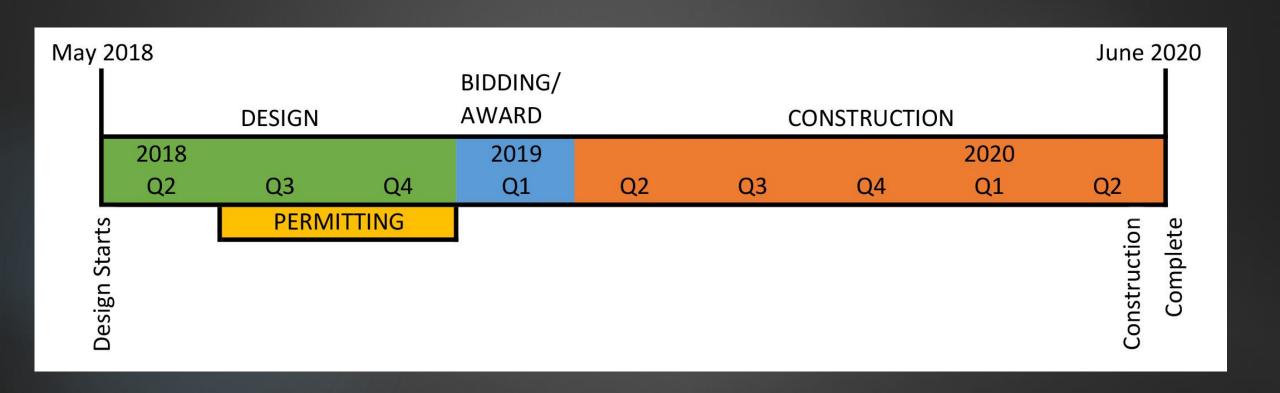
Post-Construction



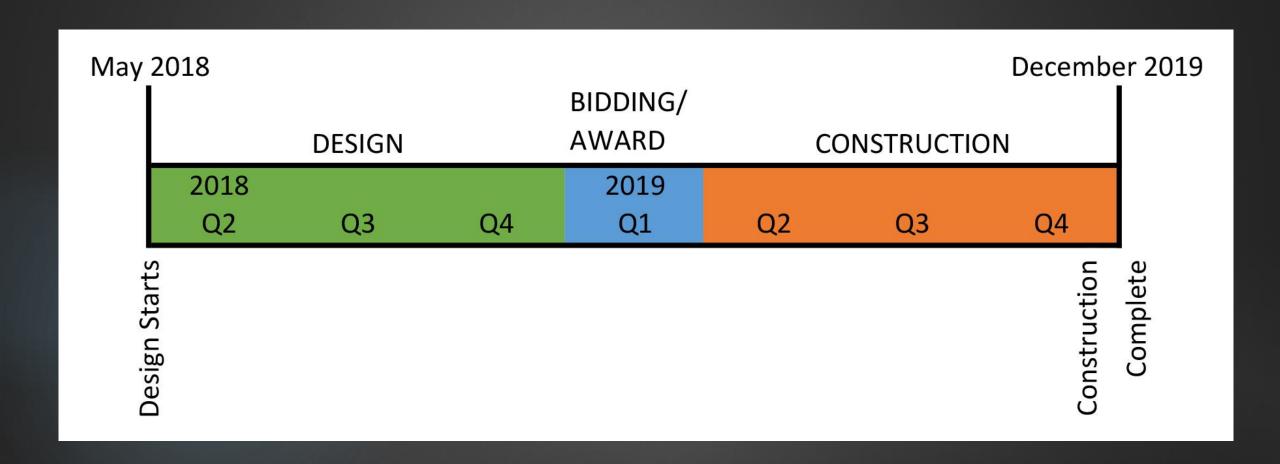
Restoration of Existing Sewer Lines and Manholes



Hazard Mitigation and Stabilization for Sewer Lines



Lift Stations and Forcemains



Update on Stakeholder Agency Coordination and Reporting for the Project



Detailed Project Timeline

Start		_
Date	Task Name	
07/01/08	Start of Disaster 1783	
08/01/08	End of Disaster 1783	
08/01/08	Disaster 1783 Declared	
08/01/08	VOR begins emergency work on sewer line and project planning	
01/01/09	Zia Engineering begins environmental consultation process.	
02/01/09	VOR submits initial application into FEMA	
03/01/09	Initial Grant Awarded	
04/01/09	VOR continues with environmental and engineering	
10/01/09	Wilson Engineering Preliminary Engineering Report Finalized	
10/01/09	Zia completed a Biological Survey of Project Area	
11/01/09	Zia completed a Cultural Survey	
11/01/09	Zia and VOR submit additional environmental paperwork to FEMA, USACE, EPA	
09/01/10	Environmental Assessment (EA) Finalized for Project	
11/01/10	Finding of No Significant Impact (FONSI) for the Project Approved	
04/01/11	Amendment Documentation submitted to FEMA to increase funding	
04/01/11	VOR and Zia submit additional information to FEMA and NMDHSEM	
04/01/12	Amendment Disapproved due to error	
04/01/12	VOR addresses FEMA issues	
09/01/13	CH2M begins and continues working on sewer line project	
07/01/14	30 Percent CH2M Drawings	

Start		
Date	Task Name	
11/20/17	Field Visit with USACE, Molzen Corbin, the Village of Ruidoso and High Water Mark.	
11/30/17	Ruidoso Business After Hours - Public Outreach	
02/16/18	Molzen Corbin submits Draft 30% Design Evaluation to the Village of Ruidoso, NMED, USACE and High Water Mark	
02/28/18	Meeting with Molzen Corbin and High Water Mark to discuss comments and provide clarifications regarding the Draft 30% Design Evaluation	
03/14/18	Meeting with the Village, Molzen Corbin, High Water Mark and NMED	
03/27/18	Site Visit to review potential areas for armoring and bank stabilizations.	
04/04/18	Task Order #2 with the Village of Ruidoso and Molzen Corbin has been signed and initiated.	
04/18/18	Molzen Corbin responds to comments to High Water Mark, NMED, USACE and the Village regarding the draft 30% Design Evaluation.	
04/19/18	High Water Mark's Site Visit regarding permitting.	
04/24/18	Meeting with NMDHSEM regarding funding with the Village and High Water Mark	
05/01/18	Meeting regarding the permitting for armoring and bank stabilizations with Molzen Corbin, High Water Mark and USACE.	
05/02/18	Version #2 of Draft 30% Design Evaluation is submitted to review by Molzen Corbin to the Village and High Water Mark	
05/07/18	High Water Mark and the Village sent back comments regarding the recent Draft 30% Design Evaluation	
05/10/18	Progress meeting to discuss design and procurement with the Village, Molzen Corbin, High Water Mark, USACE, NMED. Molzen Corbin also submit final 30% Design to Village	
05/24/18	Meeting regarding permitting with USACE, High Water Mark and Molzen Corbin	
05/31/18	Progress Meeting with the Village, Molzen Corbin and High Water Mark. Public Meeting with the community of Ruidoso.	
May 2018: Public meeting with the community of Ruidoso		
June 2018: HWM prepares for site visit at the end of the month to begin the permitting process.		

Agency Stakeholder Coordination









NMED

- Primarily concerned about future flood damage and sewer overflows into river
- Agreeable to rehabilitation for this FEMA funded project
- Responsible for Section 401 Water Quality Permitting

USACE

- Require LEDPA
- Recognize constructability issues and environmental impact of relocation
- Agreeable to rehabilitation for this FEMA funded project
- Will administer the Section 404 Permit for the Project

FEMA/NMDHSEM

- HWM has coordinated keeping these agencies abreast of project progress
- Rehabilitation more closely reflects restoring "form and function" of the damaged infrastructure

High Water Mark will be performing the necessary steps to obtain all permitting requirements with the help of Molzen Corbin and D.T. Collins

Keeping up with the project

Website Address:

http://ruidososewerproject.com

Contact Information:

- Email info@RuidosoSewerProject.com
- Project hotline phone number: (844) 543-5729

Questions?

