

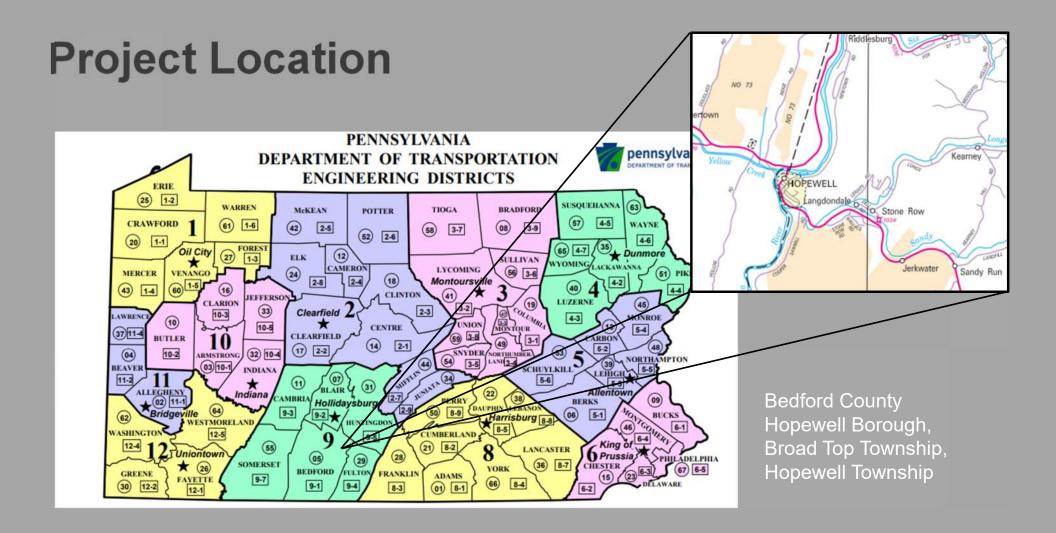




Hopewell Bridge and Intersection Project

SR 0915 Section 03B and SR 0026 Section 022

ASHE Altoona / PennDOT District 9-0 Joint Workshop April 18, 2022



Project Highlights

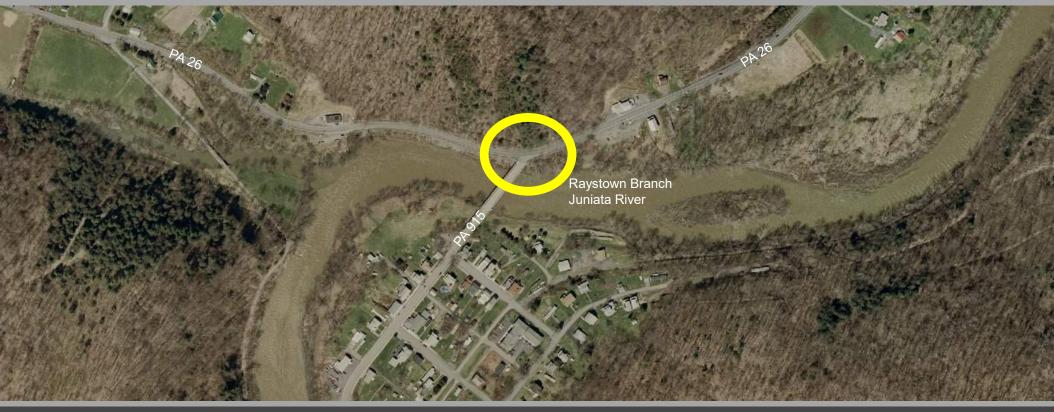
- Challenging geologic conditions
 - Bridge and retaining wall foundations, temporary shoring systems
 - Rock excavation and rock slope scaling
- Temporary traffic control through site to avoid lengthy detour routes
- Constructability challenges
 - Work space constrained by terrain, river, traffic maintained through project
 - Required close design attention to details constructability reviews and project sequence and CPM scheduling
- Flexibility during design
- Public involvement / information



Project Site



Improve geometry at PA 915 and PA 26 intersection



Turning movements

Sight distance for Southbound left turns to PA 915

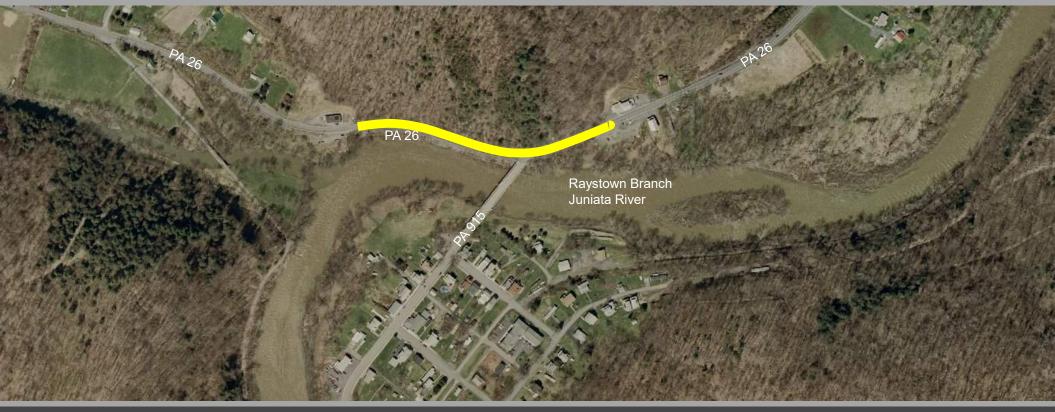








Improve sight distances and reduce potential for rock fall along PA 26



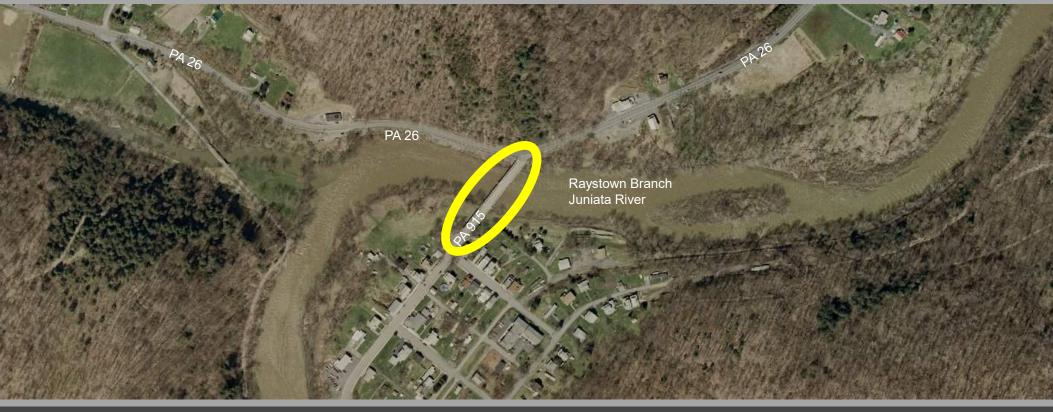




Address deficiencies in meeting current design criteria



Replace existing bridge





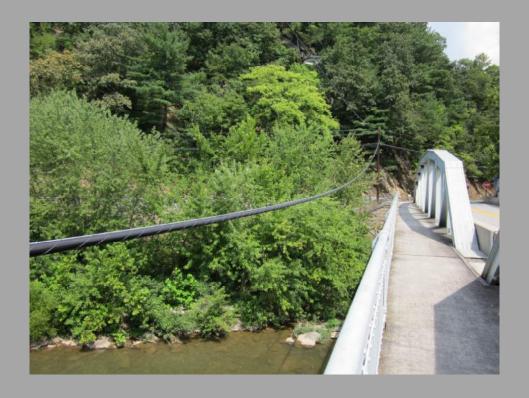




Maintain traffic without detours

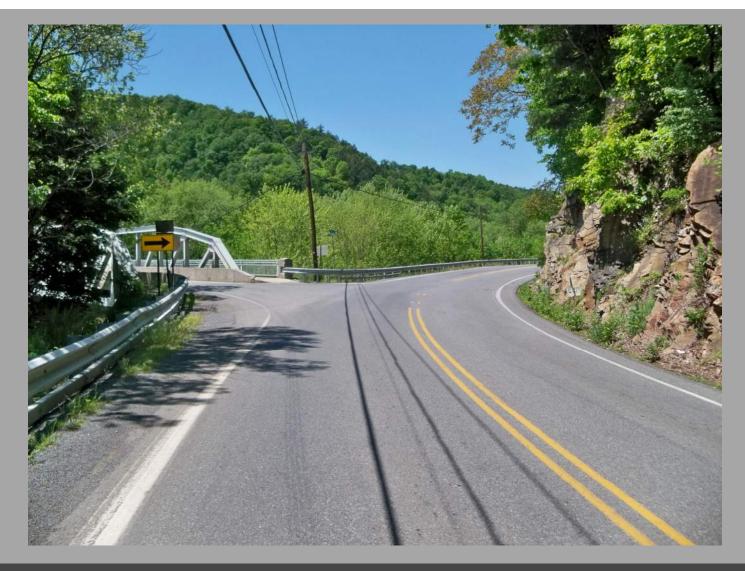


Utilities





Utilities



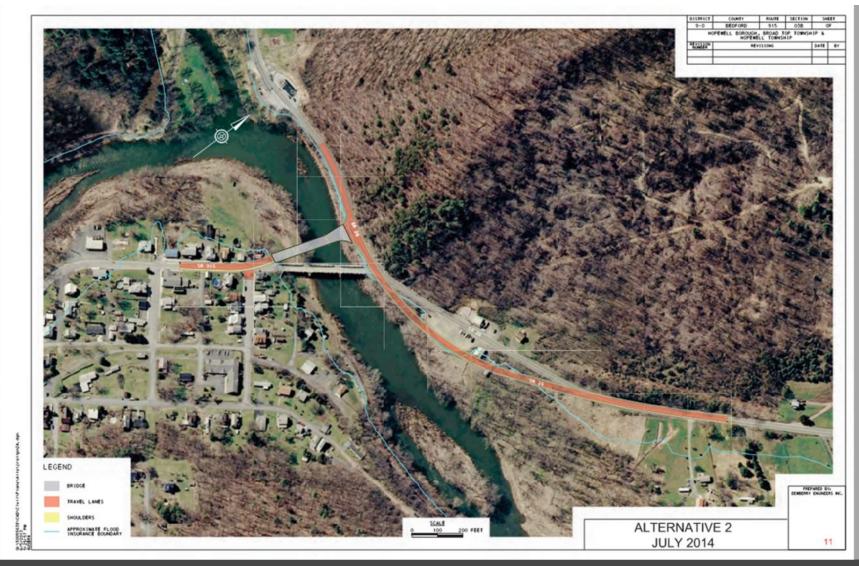
Adjacent Properties

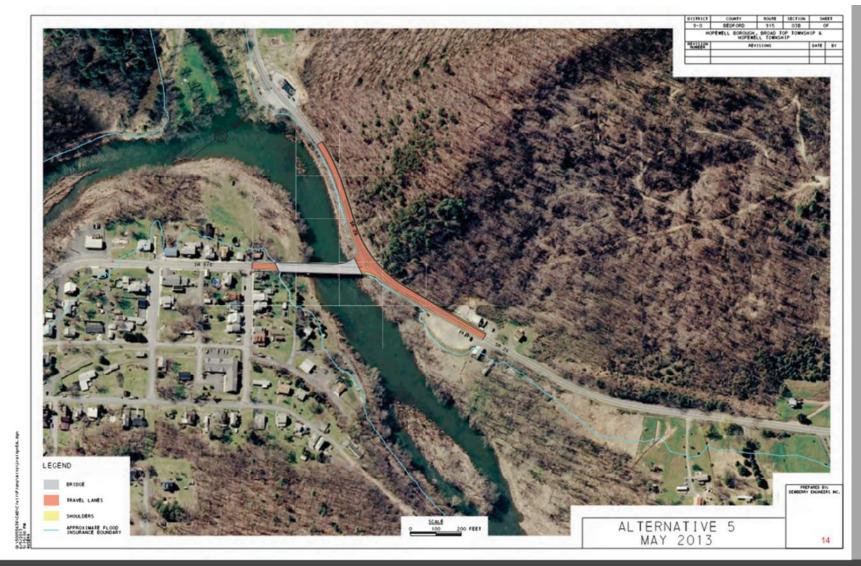




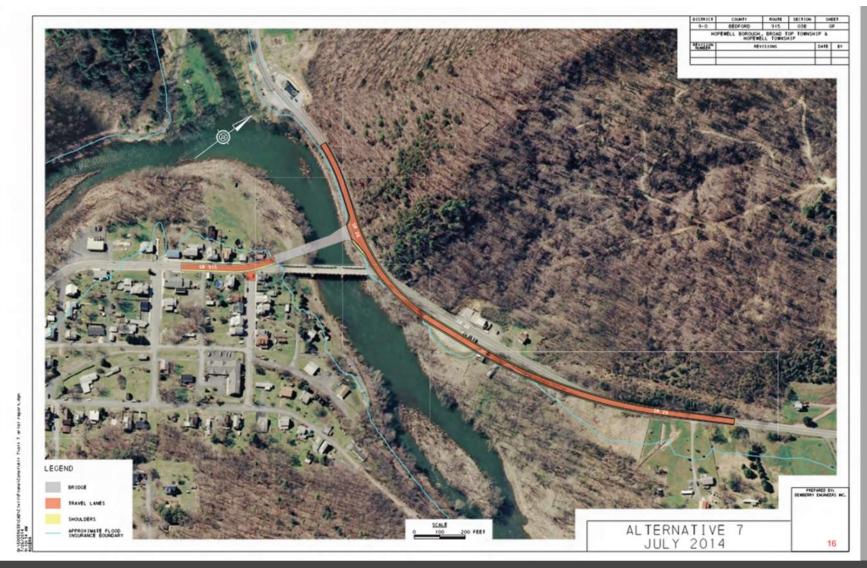


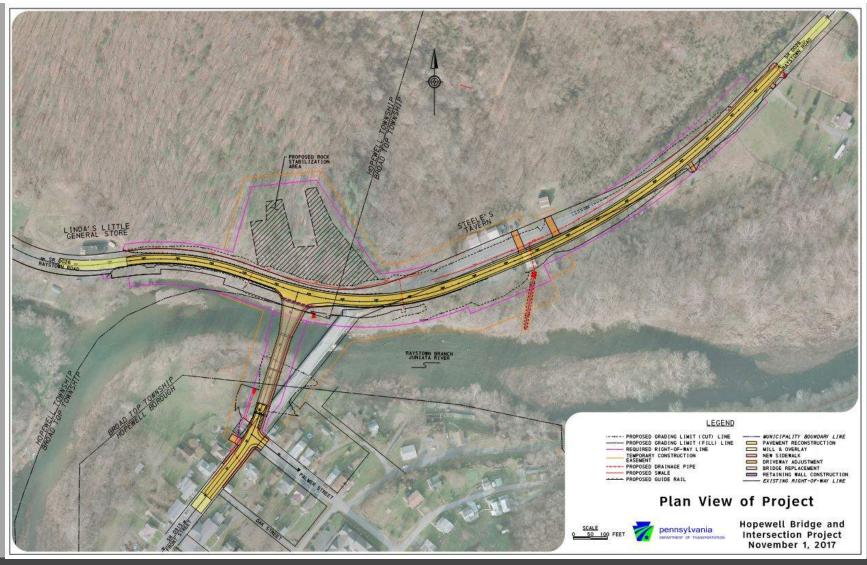
Alternatives Studied



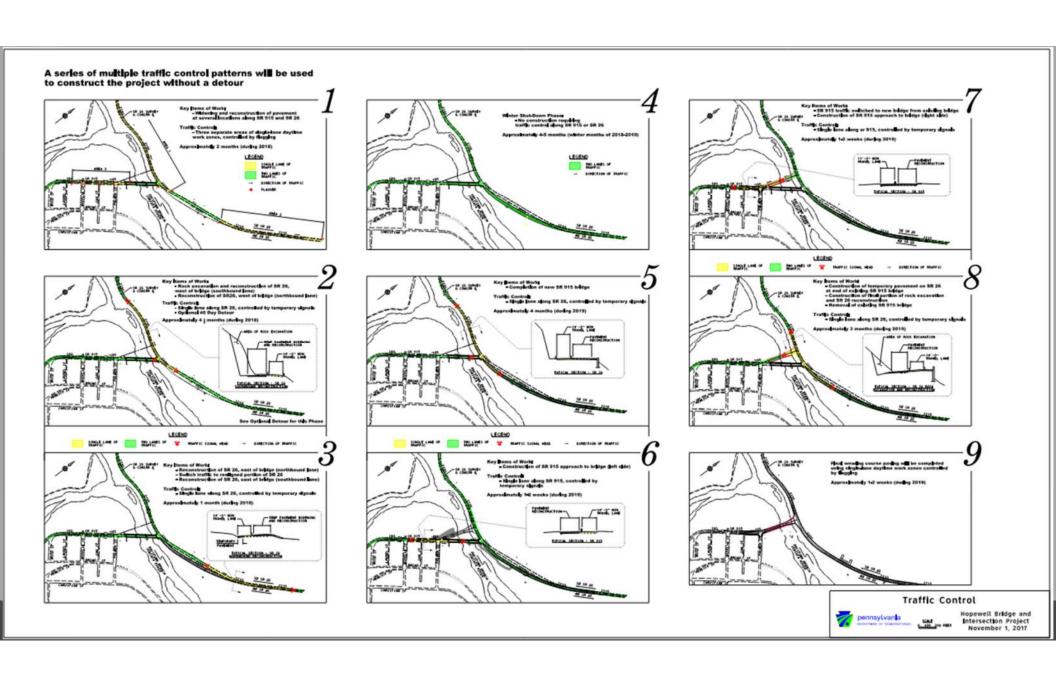








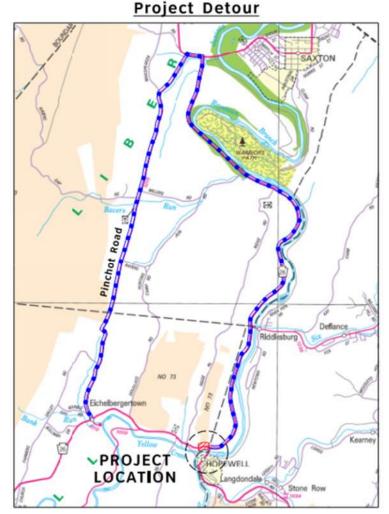
Temporary Traffic Control



Optional detour was added to the Traffic Control Plan to address the critical rock excavation phase

Detour Notes

- Maximum 40 Day duration (June 11 August 19, 2018)
- Used for rock slope stabilization & excavation only
- SR 26/ SR 915 Intersection will remain open
- Anticipated Summer 2018
- No impact to school bus routes
- Financial incentives for early removal of detour by Contractor
- Contractor assessed Liquidated Damages if detour duration is exceeded



Detour Length: 12.0 Miles

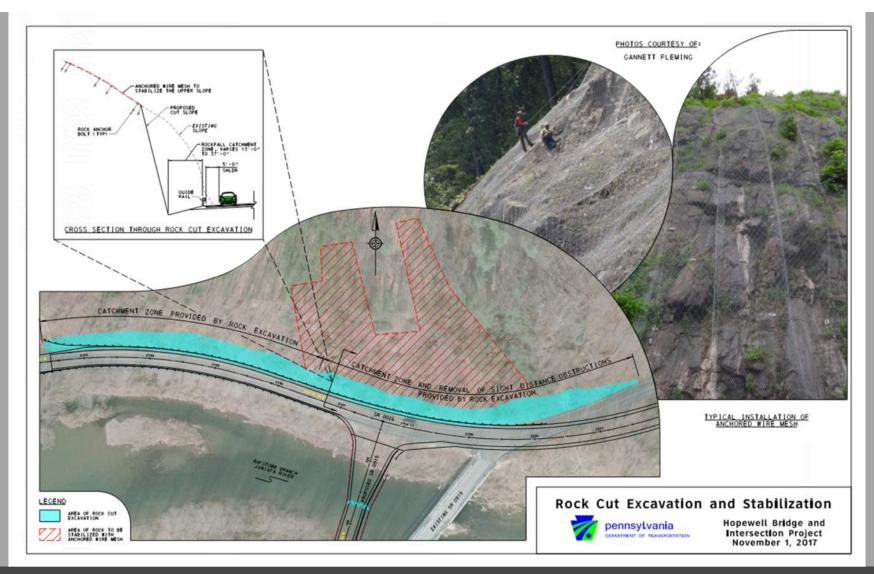
Single lane traffic zone along PA 26

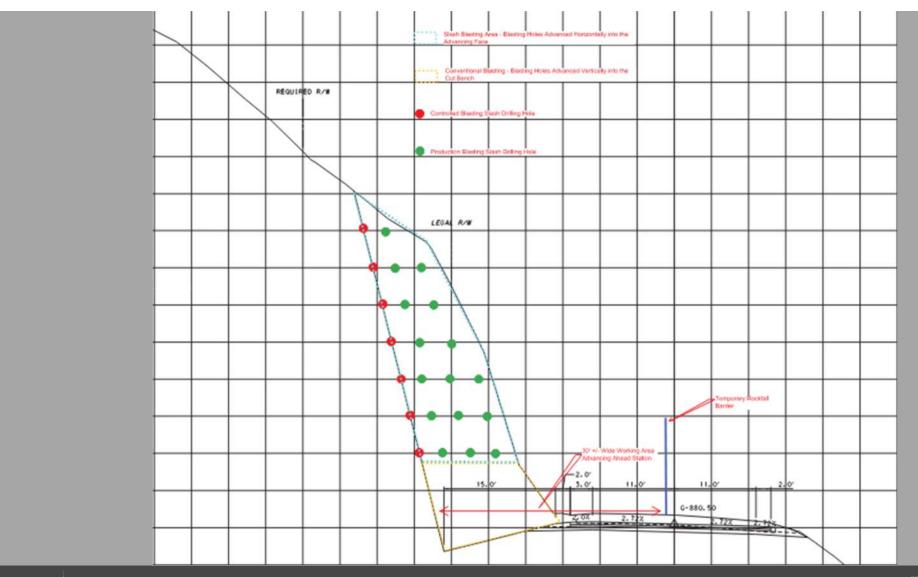


Temporary signalization at intersection



Rock Slope Excavation and Rock Scaling





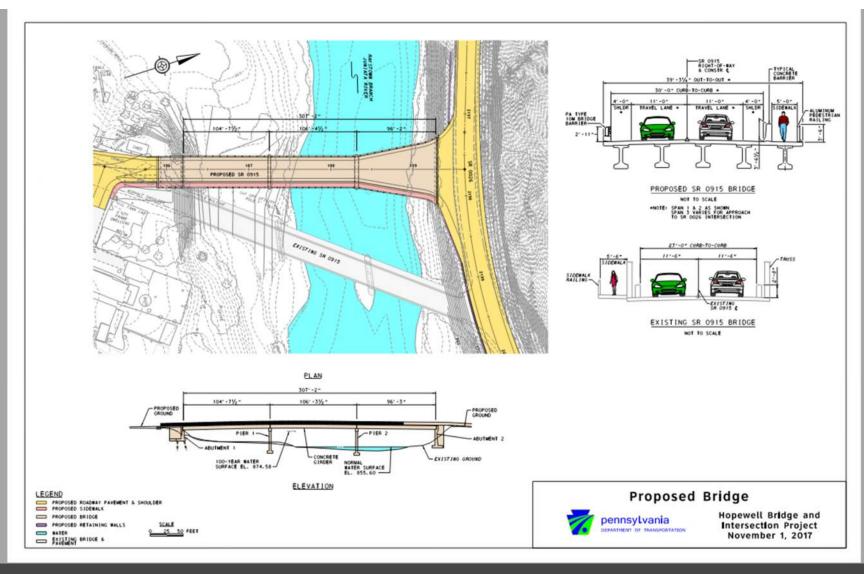


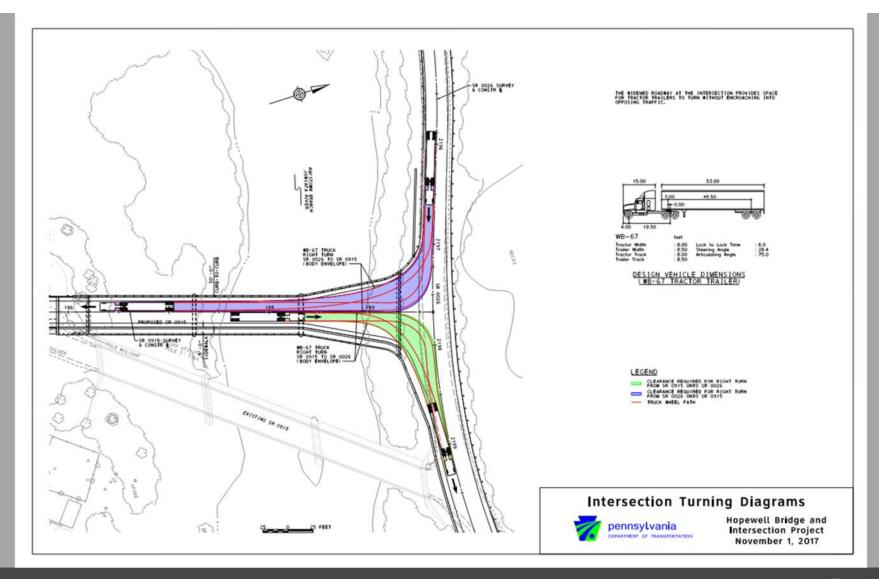


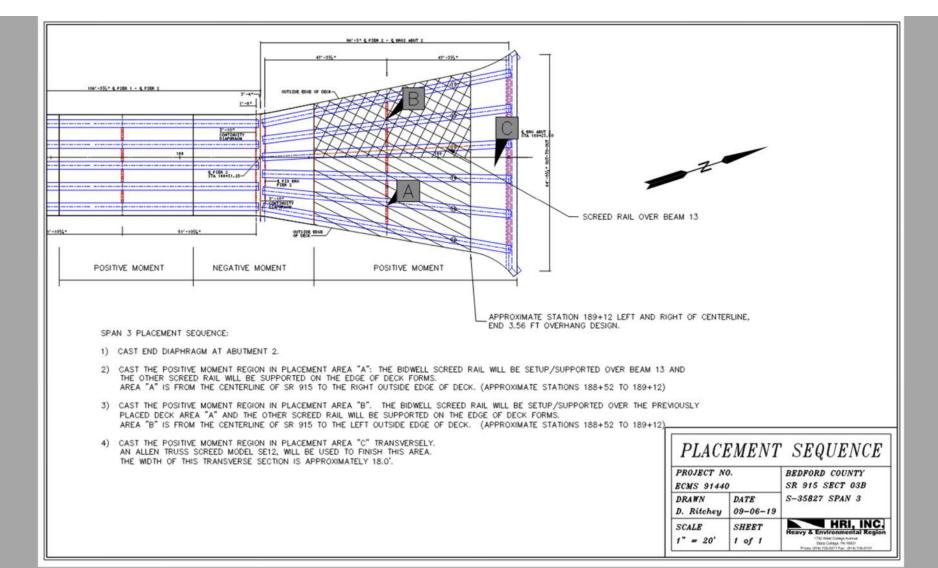




Bridge Replacement

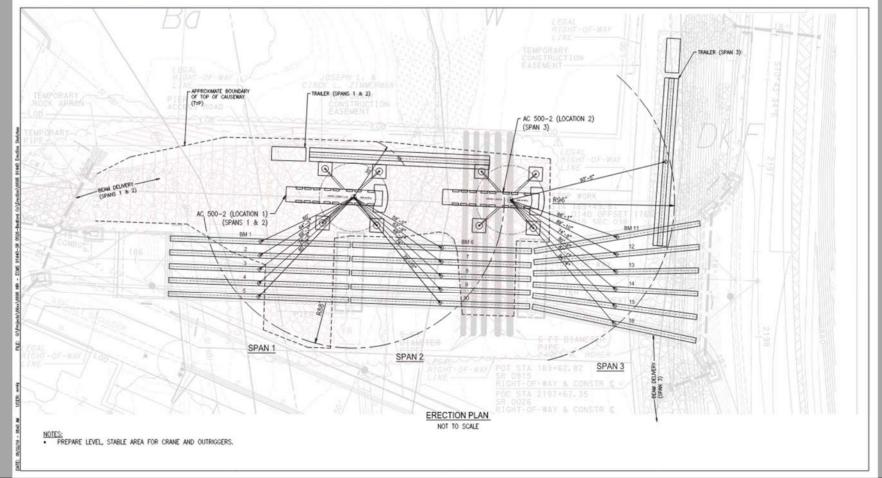




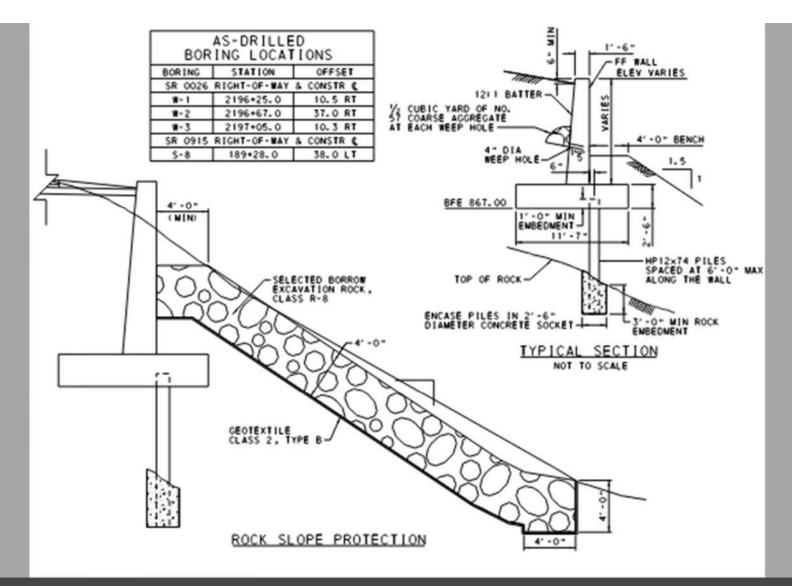


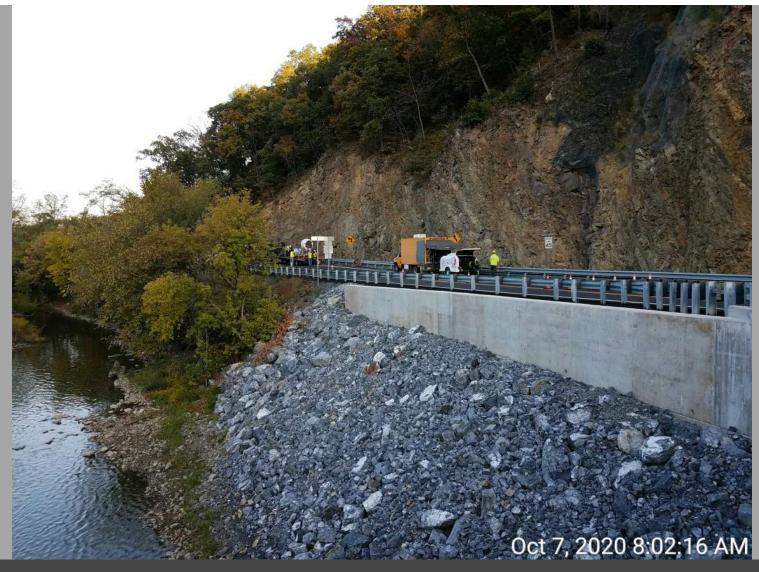














SR 26 Retaining Wall

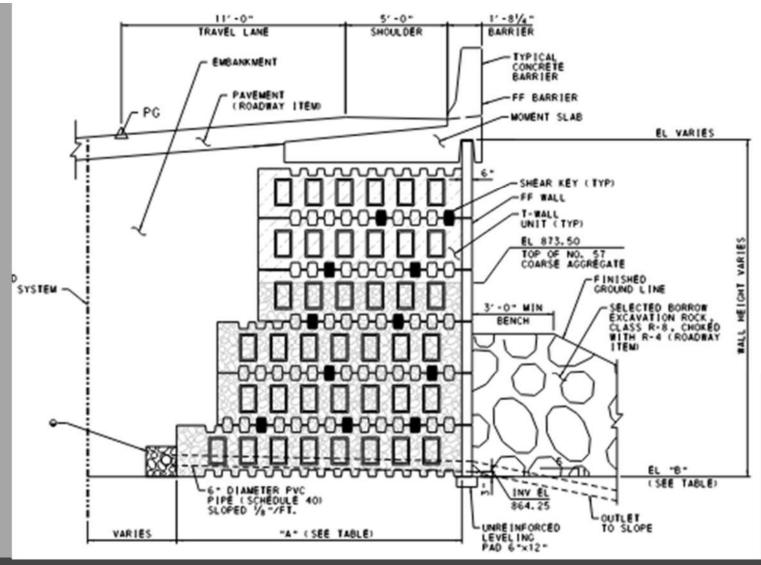


T-Wall

Precast Modular Block Retaining Wall

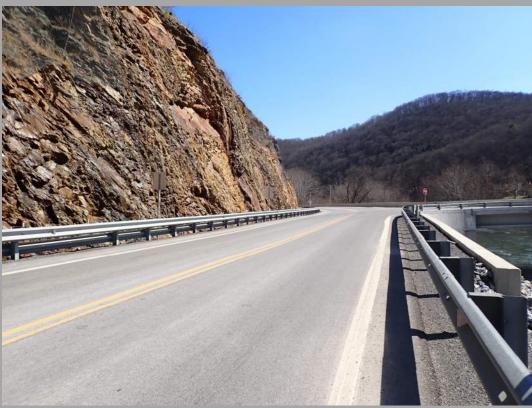
Max. Wall Ht. ~19'

Stem Lengths varied from 8' to 20'

























Design Consultant Team

- Dewberry
- Gannett Fleming, Inc.
 - Rock cut geotechnical engineering
- Monaloh Basin Engineers
 - Field surveys
 - Right-of-Way plan
- Stell Environmental Enterprises, Inc.
 - Environmental studies, NEPA clearance



Questions?

