

PUSHING THE ROPE

UTILITY COORDINATION

Why Coordinate

•Avoid Delays

Identify Conflicts

•Save Money

•Maintain Good Relationships

•Safety



When Things Go Wrong

Raymond Rd Bridge Replacement

- Communications conduit not identified prior to construction
- Conduit contained asbestos
- D Drive N Bridge Replacement
 - Overhead electric line in conflict with crane
- Partello Rd Phase I
 - Large high pressure gas pipeline crossing road
- West Drive
 - Communication line installed under road 1 week after paving
- ■25 ½ Mile Rd.
 - Pipeline company dugs up trench 2 days after compaction



When Things Go Right

- Emmett Township Local Road Program
 - 77 miles of road construction over 3 years
 - Gas, water, & sewer conflicts
- Changed design procedures
 - Submit MISSDig design tickets
 - Local utility database
- Hold an annual utility meeting to discuss upcoming projects and potential conflicts
- Learn from our mistakes!



Utility Issues for the Miller Road over Honey Creek Bridge Replacement Project





Nate P. Murphy, P.E.

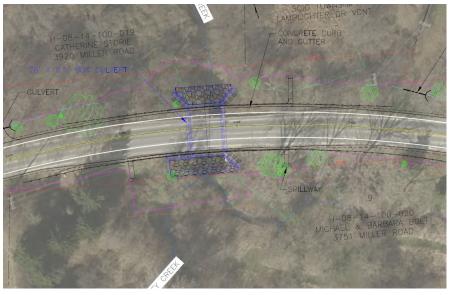
Project Manager and Bridge Engineer Design & Construction

Direct: (734) 327-6647 | Main: (734) 761-1500 murphyn@wcroads.org

Miller Road Projects

Project included:

Bridge Replacement



Contract Start date: July 6, 2020

Roundabout Intersection



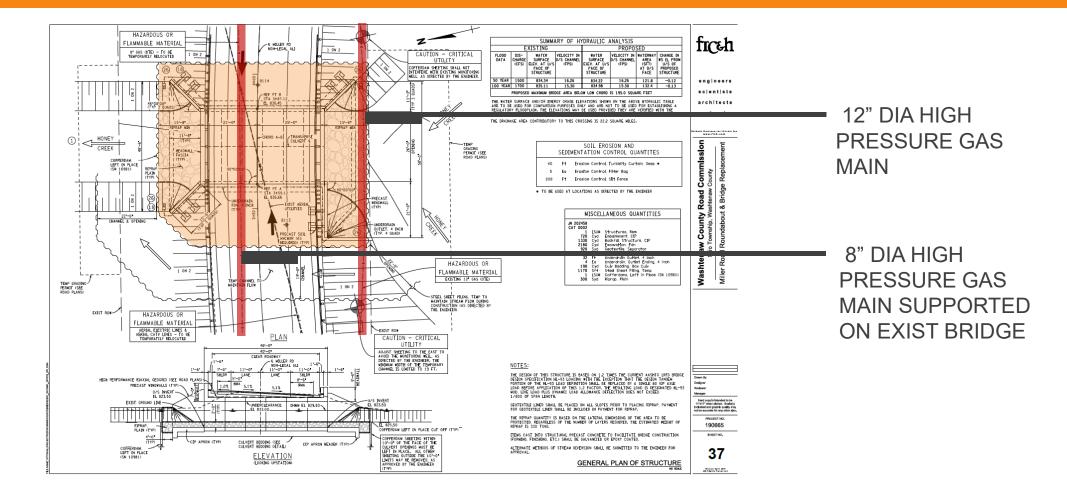
Contract Start date: June 15, 2020

Contract Project Completion: September 30, 2020

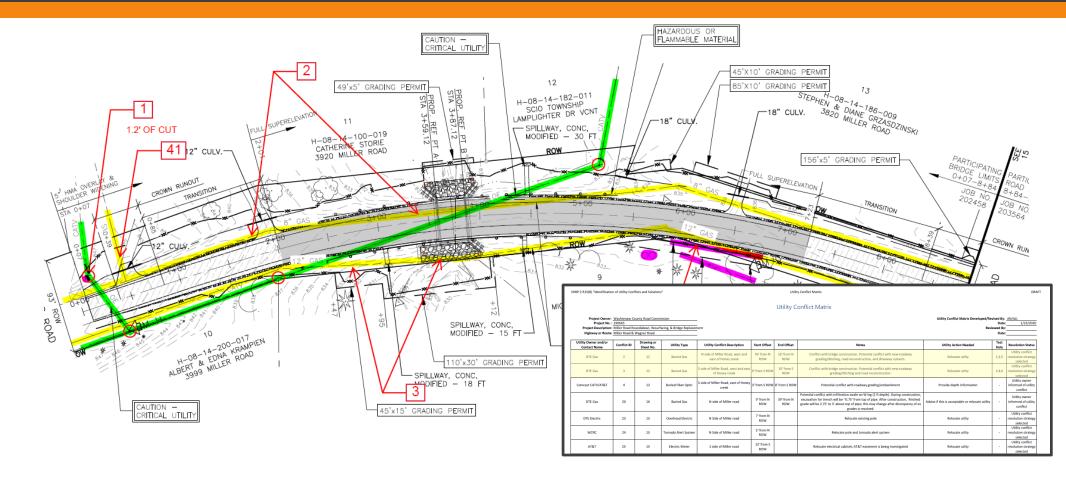
Existing Gas Main Locations



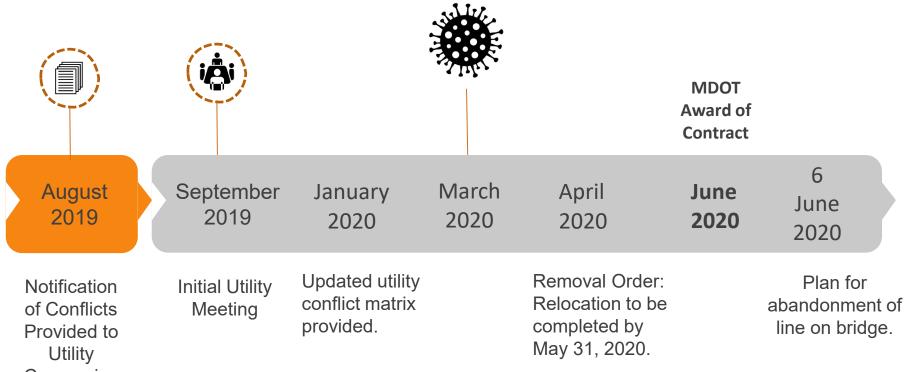
Design Phase – Major Utilities



Conflict Matrix and Coordination

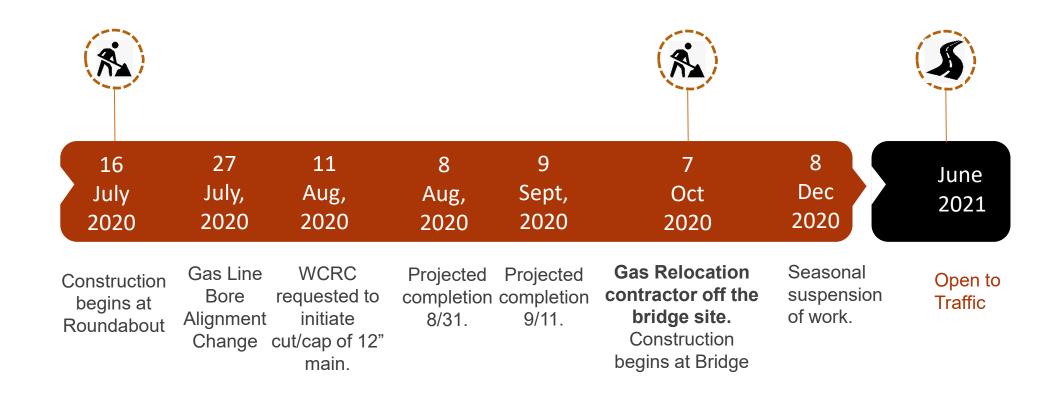


Project Timeline

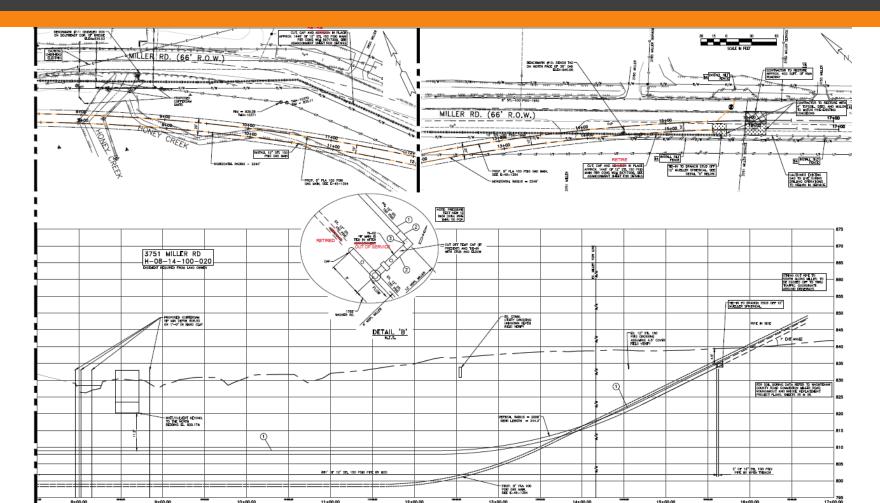


Companies

Project Timeline



Gas Relocation Plan



Gas Relocation: West bore pit location.

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Gas Relocation: Stockpiled materials

Gas Relocation: Drill shaft for test bore.

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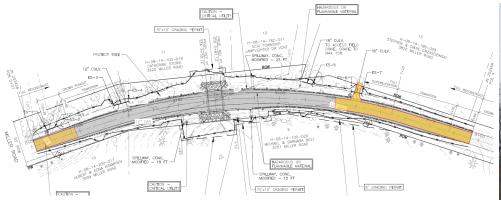
Gas Relocation: Welding new gas lines.

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Project Delayed to Following Year



Placement of Temporary Pavement





Spring 2021 Work and Completion



Lessons Learned

- Start earlier. Communicate often.
- Understand the utility design constraints.
- Determine complicating factors.
- Planning and communication can diffuse adversarial situations.

Questions

What do you tell the public when your project runs into utility delays?

