



24210 - EJMT Drainage, Pumping, Heat Trace Project Overview



COLORADO

Department of Transportation



Agenda

- Purpose of the meeting / introductions
- Need for the project
- Project goals
- Benefits of design-build
- Project scope
- Funding
- Anticipated schedule and next steps



Purpose of the meeting

- Provide a project overview for potential submitters
- Generate interest in the project
- CDOT has not met with any contractors on this project



Need for the Project

- Issues with freezing of fire /water lines and seep lines
- Ongoing maintenance and repairs
- CDOT wants a long term, 20-year solution
- Reduce the need for maintenance closures / band aide repairs



North: Main Line Break





North: Main Line Break





South: Frost Heave





South: Frost Heave





Project Goals

1. Provide an innovative design solution that is durable, historically proven, easily maintained, and compatible with current and future improvements in the EJMT
2. Maximize the construction scope of the proposed design solution within the project budget
3. Minimize impacts to the traveling public, EJMT operations, and the EJMT fire life safety systems during construction and for the lifecycle of the constructed improvements
4. Meet and exceed the project requirements
5. Minimize the project delivery time



Benefits of Design-Build

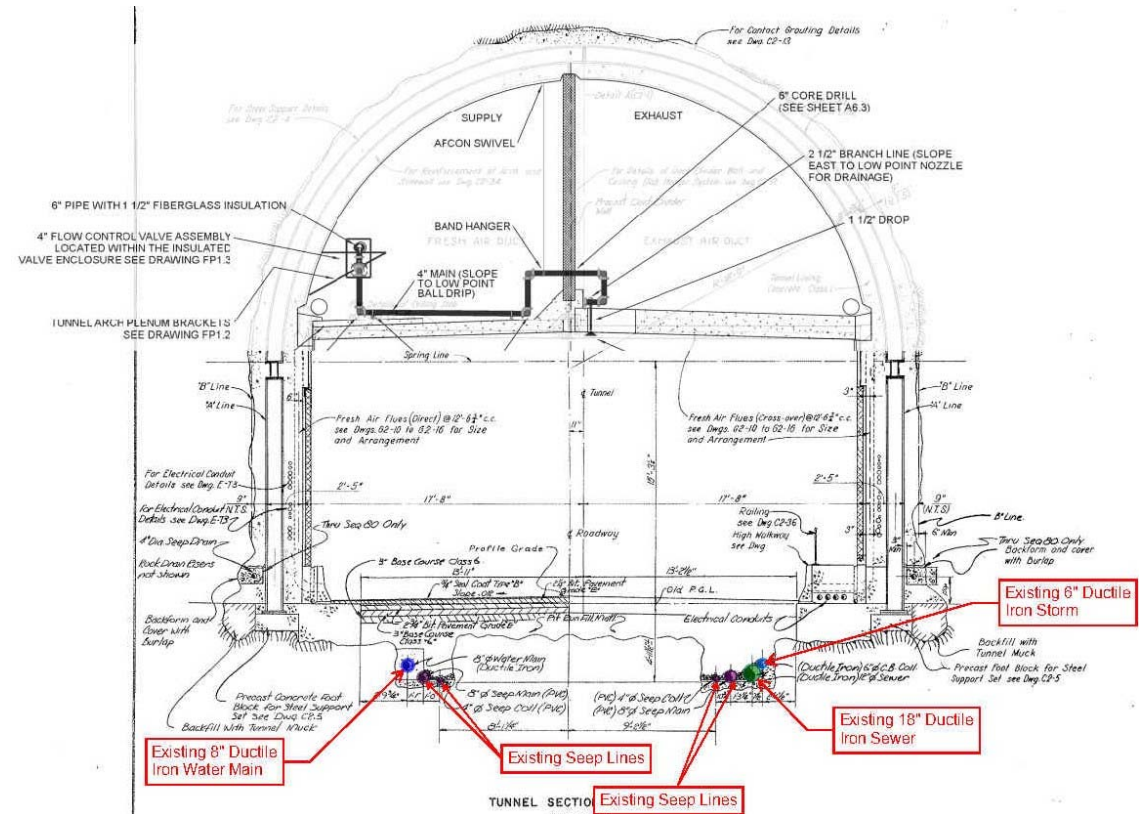
- Short list the most qualified teams
- Generate innovations from several teams
- Best value selection based on qualifications, innovation, price and schedule
 - Alternate solutions will be considered / encouraged
 - CDOT value's experience completing this type of work
 - Set up for future work in the tunnel
- NEPA Status - Working on completing a CATEX by Fall 2021.



Project Scope - North Tunnel Section

➤ New fire lines and hydrants

- Construct new hydrants along the tunnel wall and connect to the existing FFSS in the plenum
- Replace heat tape on 8-inch seep lines on the west end of the tunnel (1/2 mile to one mile of new tape on both lines)
- Upgrade electrical connections to heat tape
- New electrical monitoring system for heat tape failure
- Upgrade electrical panels and wiring as needed





North tunnel - access behind panels

- Panel and hydrant details



Figure 218: Typical debris around the hydrant



Figure 219: Typical corrosion of the hydrants

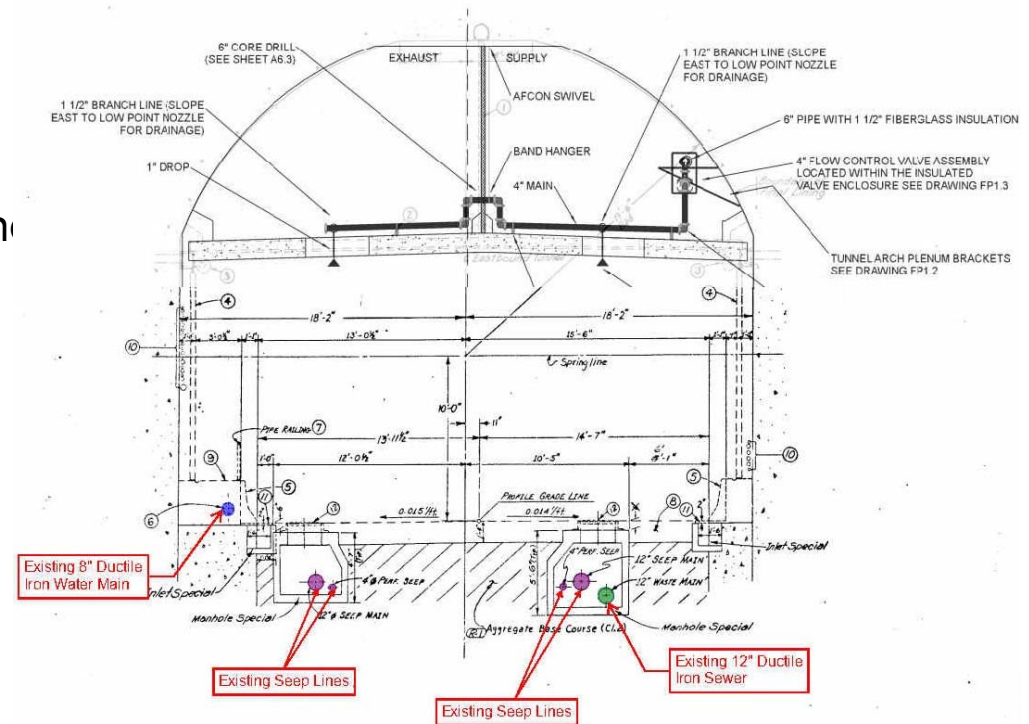




South Tunnel Section

➤ New Heat Tape

- Replace heat tape on the fire line under the walkway. Replace pipe insulation and heat tape fixtures
- Replace heat tape on 12-inch seep lines on the west end of the tunnel (1/2 mile to one mile of new tape on both lines)
- Upgrade electrical connections to heat tape
- New electrical monitoring system for heat tape failure
- Upgrade electrical panels and wiring as needed
- Potential to place water line on the circulation / boiler system
- May require upgrades to the pumps and boiler





Project Budget

- CDOT currently has \$3M
- Could add funds up to approximately \$10M if stimulus funds become available from SB 21-260 or Federal programs
- Part of future \$150M program at EJMT



Anticipated Schedule/Next Steps

- Request for Letters of Interest: May 3, 2021
- Letter of Interest Due: June 21, 2021
- Request for Qualifications: June 24, 2021, Due Aug 05, 2021
- Announce Short list: Sept 02, 2021
- RFP: Draft Sept 09, 2021, Final Nov 04, 2021
- Proposals Due: Jan 13, 2021
- Notice of Award: Feb 2022
- Notice to Proceed Design: Apr 14, 2022, Construction: June 2022
- Project Complete Summer 2023



Questions and Comments?

