SH82/27TH ST GRADE SEPARATED PEDESTRIAN CROSSINGS GLENWOOD SPRINGS, COLORADO

UNIQUENESS AND/OR INNOVATIVE APPLICATIONS OF NEW OR EXISTING TECHNIQUES

- Designed two multimodal underpasses beneath one of SH82's busiest intersections with 28,000+ daily vehicles in summer.
- Designed for future light rail with Cooper E80 load standards—uncommon in pedestrian underpasses.
- Maintained four-lane traffic flow while constructing two grade-separated crossings under SH82.

ENHANCED PUBLIC AWARENESS/ENTHUSIASM OF THE ROLE OF ENGINEERING

- Transformed the site of a 2018 cyclist fatality into a vibrant and safe multimodal crossing.
- Public outreach included STEM tours for students and local professionals to showcase infrastructure engineering.
- Increased accessibility for multimodal travelers with recessed lighting in concrete tunnel walls and snowmelt system along 240-foot underpass ramp.

SOCIAL, ECONOMIC, AND SUSTAINABLE DEVELOPMENT CONSIDERATIONS

- Enhanced access to Rio Grande Trail and RFTA's regional transit hub, promoting car-free commuting.
- Supported City's tourism economy by maintaining access and improving connectivity.
- Incorporated transit signal priority (TSP) system, improving bus flow and reducing emissions.

COMPLEXITY

- Coordinated multiple utility relocations with 15-ft vertical shifts in constrained space, adjacent to active transit operations.
- Met aggressive 11-month design timeline with multiple engineering disciplines and agency coordination.

SUCCESSFUL FULFILLMENT OF CLIENT/OWNER NEEDS

- Delivered \$20.7M project under budget and ahead of schedule.
- Kept transit and traffic uninterrupted throughout four-year project.
- Exceeded three stakeholders' expectations through responsive design updates and contractor-informed revisions.











