

Ford Street Bridge and Washington Street Bridge Replacements City of Golden, Colorado

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ANDERSON CONSULTING ENGINEERS, INC.
Civil • Water Resources • Environmental

This was a multi-task, multi-discipline project which included raising approximately 500 feet of Ford Street (a major arterial in the City of Golden), a 100-foot span bridge over Clear Creek, filling of the right overbank upstream of Ford Street and enlargement of the Clear Creek channel. Specific tasks included:

- **hydraulic design of a 100-foot span bridge** over Clear Creek, including **100-and 500-year scour analyses**;
- **design of channel stabilization measures** in the vicinity of the bridge;
- **design of additional channel conveyance** upstream of the bridge for carrying split flows removed from the right overbank, and providing for a bicycle trail corridor;
- 100- and 500-year **floodplain evaluation and delineation** for existing and with-project conditions, for the creek and one divergent flow path;
- 1-foot **floodway evaluation and delineation** for existing and with-project conditions, for a 1.5-mile reach of the creek and one divergent flow path;
- preparation of all **CLOMR application** materials for Clear Creek and the split flow path;
- summarized as-built hydraulic conditions in a report and submittal of a **LOMR application** for the Clear Creek crossing of Ford Street.



Ford Street Bridge over Clear Creek, Golden, Colorado

A similar project was completed for the replacement of the Washington Street Bridge located approximately 1 mile upstream of the Ford Street Bridge on Clear Creek. **Hydraulic design, channel stabilization measures, and a CLOMR** were provided to support the design of this ‘feature’ bridge into the City of Golden by Loris and Associates, Inc.