



Overview: 3-Span, Steel Slant-Leg Girder & Composite Deck; Cast-in-Place Concrete Retaining Walls

Owner: Town of Breckenridge, CO

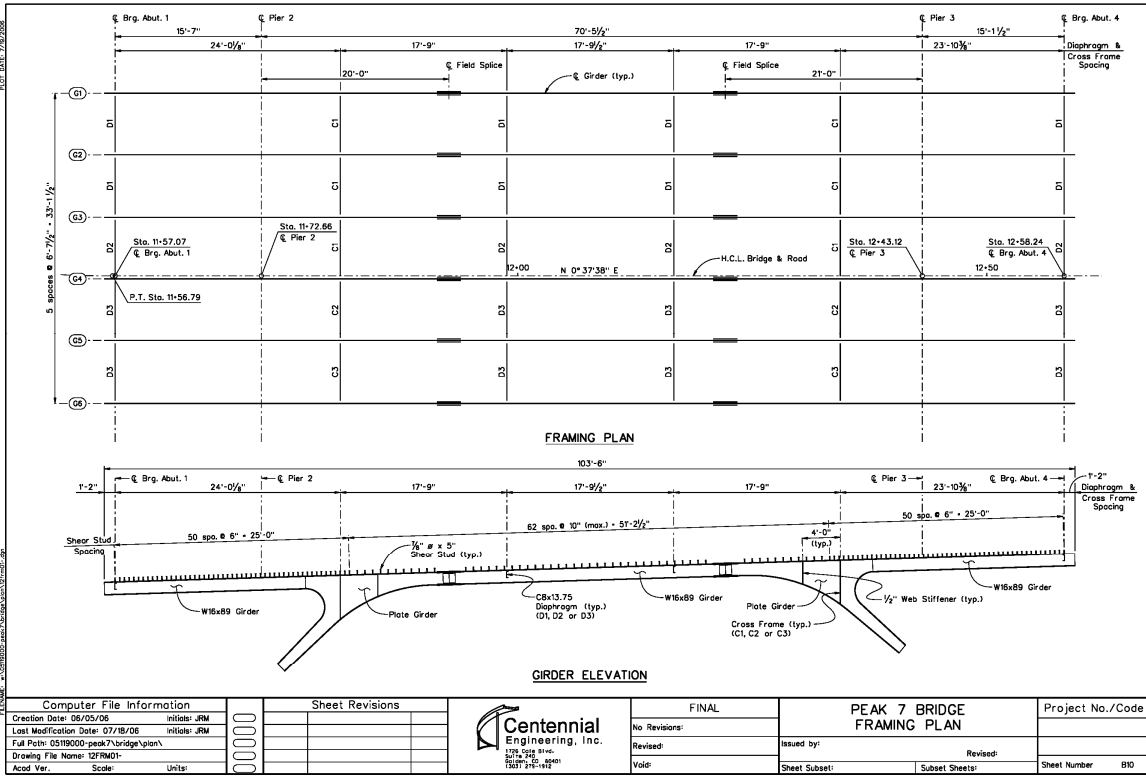
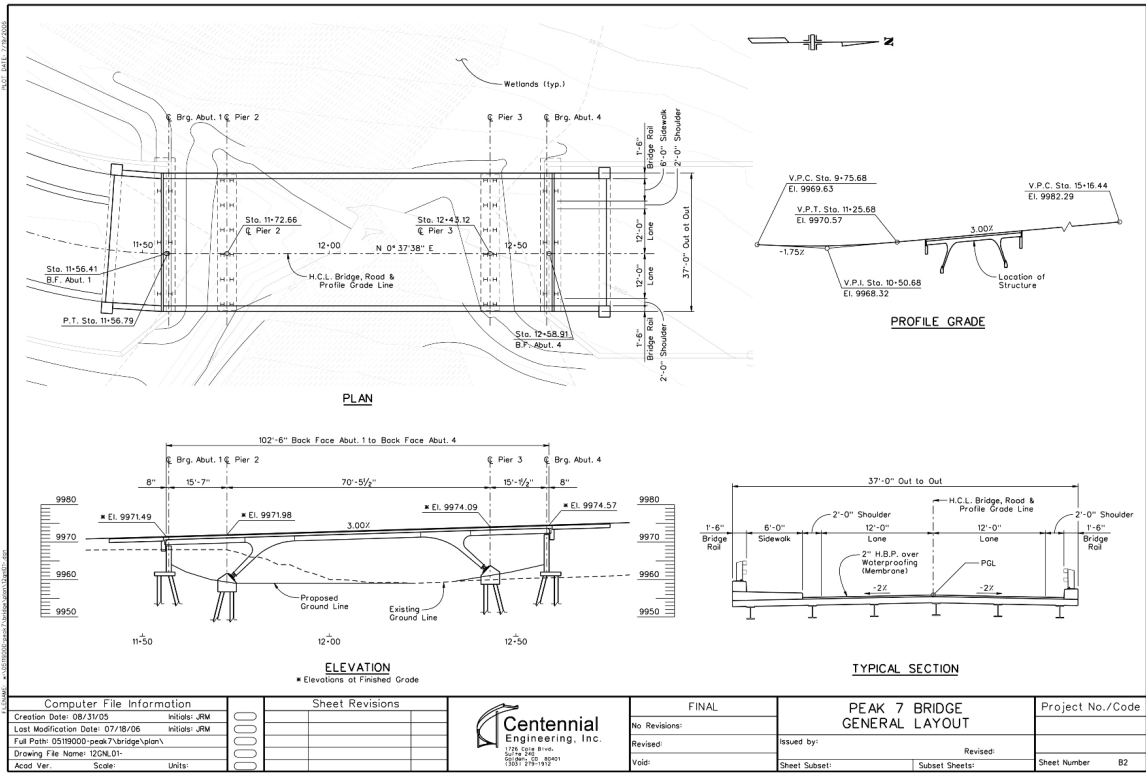
Completion: 2007

Peak 7 – Ski Hill Road

Project Description

The Peak 7 Bridge is a steel slant-leg roadway bridge which spans sensitive alpine wetlands at an elevation of nearly 10,000 feet. The structure type was chosen to minimize structure depth and reduce retaining wall heights and costs; not only reducing the impact to the environmentally sensitive wetlands, but also allowing larger wild animals (moose, elk, deer and bear) to cross under the roadway. The higher elevation of the site necessitated a short construction season. Centennial worked closely with the prime contractor (Stan Miller Inc.), the bridge contractor (Colorado Constructors Inc.), the fabricator (Capitol Steel), and Vail Resorts to complete the bridge superstructure before the end of the 2006 construction season, which in turn facilitated the

installation of deep and shallow utilities on schedule for the Peak 7 development project. Over 10,000 S.F. of retaining wall was required for this project, primarily to reduce wetlands impact, but also to provide much needed parking. Cast-in-place cantilever walls on driven steel H-piling were chosen for maximum service life and reduced wetlands impact during construction. Colored concrete for the walls, with a multi-use form liner for the exposed face helped reduce the visual impact of the wall faces for this high profile project. The success of the project is a direct result of stakeholders, design team members and contractors working together to resolve issues in a timely manner.



SERVICES

- Structural Engineering & Design
- Roadway Design
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- Traffic Engineering
- Intelligent Transportation Systems (ITS)
- Surveys & Right-of-Way
- Information Technology Systems

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