

Site Civil Engineering Services

- Site Planning
- Site Circulation Design
- Vehicular Parking Design
- Pedestrian and Bicycle Facilities Design
- Utilities Design
- Grading and Drainage Design
- Storm Water Treatment and Disposal
- Geotechnical Design
- Structural Design
- Surveying
 - Property Boundary
 - Topographic
 - Construction Staking
- Materials Testing
- Construction Observation



JACKSON HOLE HIGH SCHOOL
Jackson, WY

Nelson Engineering has been the principal site civil engineering design engineer on many public school facilities across the state of Wyoming. The roster of these facilities includes:

Big Piney Elementary School, Clear Creek Middle School (Buffalo), Buffalo High School, Coulter Elementary School (Jackson), Jackson Hole Middle School, Jackson Hole High School, Summit High School (Jackson), LaBarge Elementary School, Lander Elementary School, Lander Middle School, Rock Springs East Elementary School, and Wind River Elementary School.

Two of the more complex of these projects are described below:

Jackson Hole High School—Nelson Engineering provided site civil design including utilities, drainage, and parking for the new high school on a 40-acre site. Project elements included street, parking, pedestrian, and bicycle facilities design, curb, gutter, culvert, storm water treatment and disposal facilities, sewer, water, gas, power, telephone, and intra-district communication utilities, and artificial outdoor athletic fields.

Buffalo High School—Developing a grading and drainage plan for this project was challenging—the site is located on a hill, with slopes varying from 4 to in excess of 10%, had two irrigation canals that cut across it, and also was subject to the presence of high groundwater, coupled with fine-grained soils, on its lower end. Successfully addressing these conditions required extensive and creative site civil engineering measures. Nelson Engineering was also responsible for design and permitting of water and sanitary sewer along with access approaches; in addition, all utilities were routed and coordinated with the respective providing entities.



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BUFFALO HIGH SCHOOL
Buffalo, WY