

**GRAND VALLEY ENGINEERING SOLUTIONS LLC
ELECTRICAL ENGINEERING/SOFTWARE**

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Energy Production and Support Facilities:

The three keys to successful design and construction of energy production and support facilities are time, flexibility, and durability. The old saying 'time is money' is particularly true in the oil and gas industry. When a decision is made to build a building, the need to occupy that building is immediate. Every day lost results in a loss of income and a loss of market share. Because the owner's needs are often not entirely known when a building project is started, and

because those needs often change before the building is complete, flexibility in the design of the electrical systems is extremely important. Finally, because these buildings are often used to service large vehicles and equipment, and because they are often used far more than just 40 hours a week, they must be durable.

Having been in business in Grand Junction for more than 30 years, I have quite a bit of experience meeting the needs of the oil and gas industry. We are currently working on a 60 man man-camp in Williston North Dakota, and have designed electrical systems for metal building office/shops and office/warehouses for numerous oil and gas service companies here in Grand Junction. Over the last few years, I have developed power distribution system software which allows me to rapidly model the system and fine tune it to the building being designed. I have also developed an approach to drawing showing more information on the plans than most engineers without wasting time drawing conduit connections to every device. This approach allows me to respond to owner changes rapidly and in a cost effective manner. The following is a list of Grand Valley Engineering Solutions' oil and gas industry projects.

- 2011 Mancamp Cyclone Drilling, Williston, North Dakota
- 2011 Maintenance shop, Compressed Natural Gas Vehicles, City of Grand Junction
- 2009 Mancamp Global Geophysical
- 2009 Office/Shop Whiting Oil & Gas
- 2008 Office/shop Perfalog Corporation, Grand Junction, CO
- 2008 Office/shop MB Construction, Debeque, CO
- 2007 Mancamp Conoco-Phillips
- 2007 Encanna Corporation Mancamp Design Review, Parachute, CO
- 2006 Office/shop Key Energy Services Corporation, Grand Junction, CO
- 2006 Office/warehouse Joel Sax, Grand Junction, CO
- 2005 Office/shop Power Motive Corporation, Grand Junction, CO
- 2005 Office/shop Vermeer, Grand Junction, CO
- 2005 Office/shop Key Fishing & Rental Corporation, Grand Junction, CO
- 2005 Office/shop Scientific Drilling Corporation, Grand Junction, CO
- 2005 Office/warehouse D & M Wire Rope, Grand Junction, CO
- 2004 Office/warehouse Walker Metal, Grand Junction, CO