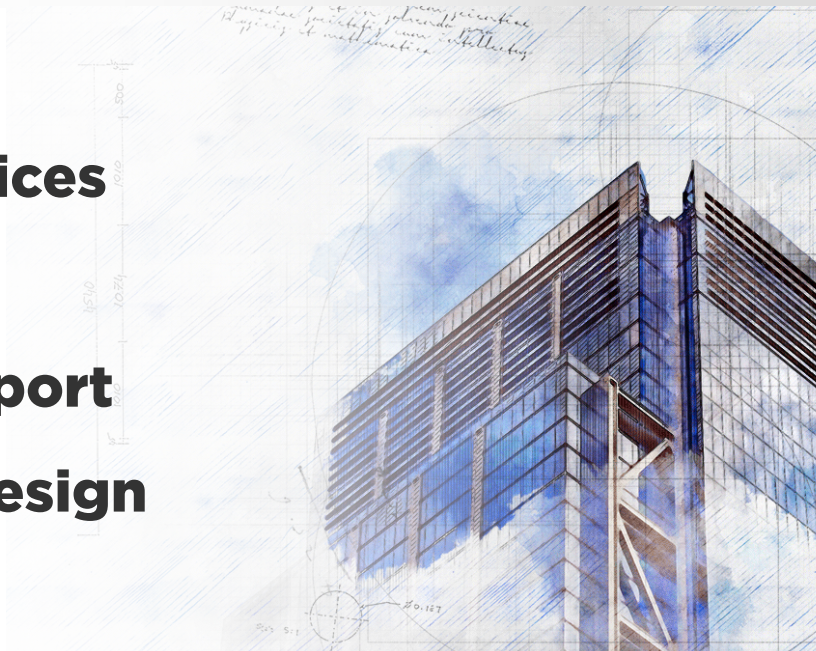


## Engineering Design Services

### Civil 3D Experts

### Design / Drafting Support

### Analysis to Support Design



## WE ARE YOUR FORCE MULTIPLIER

### Providing Support in Technical Areas Including:

#### Roads and Rail

- Road Safety Requirements
- Horizontal and Vertical Alignments
- Plan and Profiles
- Intersections and Parking Lots
- Typical Sections and Details
- Swept Path Analysis



#### Site Grading and Earthworks

- Grading Plans
- Earthworks Design
- Cut / Fill Optimization
- Surface Drainage Strategy
- Pad and Finished Floor Elevations



- ROW and Utility Protections
- Layout of Utility Networks
- Typical Sections and Details
- Pump Sizing and Details
- Plan and Profiles for Pipe Networks



#### Sewer, Water, and Utilities



- Storm Drain System Design
- Retention / Detention Basin Design
- Open Channels, Culverts, etc.
- Plan and Profiles
- Energy Dissipators / Outfall Facilities
- Stormwater Pollution Prevention Plan (SWPPP)

#### Stormwater Drainage

## About Us

Fassbender Group can quickly mobilize several experienced civil design teams with scale to meet the requirements of our clients. Our group draws from extensive experience on a wide range of both domestic and international projects, ranging from small land development projects to major infrastructure projects.

Our organizational structure consists of a North American – based program manager to coordinate and interface between our international design managers and the client project managers. This team structure enables us to maintain quality and efficiency helping our clients deliver their projects.

