

Heavy-Civil Underground

Traditional heavy-civil engineering construction projects require extensive knowledge of multiple construction techniques. While these projects benefit the communities they are in, they can take years to design and build. RP Constructors completes multiple scopes of work on heavy-civil construction projects such as grading, underground utilities and concrete paving. This fact alone helps us complete work in a timely manner—reducing impacts on the surrounding community.

Our Unique Approach

The management of heavy-civil construction projects is akin to juggling; there are multiple balls in the air at any one time and failing to catch/deal with one can impact all. Roadway construction also involves multiple “balls” in that several different skillsets or teams are required to successfully complete a project. Grading, shoring, underground utilities, paving or seeding at completion are all very different scope items requiring different skills, personnel and equipment. Schedule coordination and management between these different teams requires a tremendous amount of time and effort—it is even a tougher endeavor when these teams involve different companies’ subcontractors. Often RP Constructors will control a majority of the work on a project (laying underground utilities in one area while concrete paving in another) which provides our clients a major competitive advantage—we will get your project done faster, better and often cheaper. Our quality control (since we are self-performing much of the work) is ongoing and results in smaller punch lists and faster project closeout. RP Constructors is not a “suitcase” contractor subcontracting large amounts of work—the fact we self-perform a majority of scope items is a major advantage for us and our clients.

RP Constructors is the leading heavy-civil engineering contractor in the Siouxland area. We are members of the Associated General Contractors of Iowa (AGC) as well as the National Underground Contractor Association (NUCA) and our staff has decades of industry experience. Our ability to complete multiple scopes of work on projects lowers project costs, compresses the schedule, and results in smaller punch lists and faster project completion. We understand that heavy-civil engineering projects are highly visible to more than just the client. Major reconstruction projects affect the entire community with detours and slowed traffic. Our teams work together to help make sure projects are completed as quickly as possible.



Concrete Paving

There are two methods for paving with concrete, slipform and fixed form. Slipform paving uses a self-propelled machine that rides on tracks over the area to be paved. Portland cement concrete (PCC) is deposited in front of the machine, which spreads, consolidates, shapes, and float finishes the area in one continuous operation. Portland cement is the most common type of cement used around the world. It contains concrete, mortar, stucco, and non-specialty grout.

Fixed form paving uses stationary metal forms that are set and aligned on a solid foundation. This process uses more steps as forms need to be cleaned and oiled to prevent sticking, and two machines are required to spread, shape, consolidate, and float finish the concrete. Once the forms are removed, the edges must be cured immediately.

RP Constructors uses slipform paving for various projects, including highway and road construction for local and state governments, as well as runways, aprons, and taxiways for airports.

Slipform paving is ideal to use for large jobs that require high production rates. Our fleet of slipform pavers gives us the ability to self-perform concrete paving needs for private and governmental clients. This ability gives us an advantage over other concrete contractors.

“We take a lot of risk and heartache out of the equation because we do so much of the work.”

RYAN CALLAGHAN, CEO



Our Services

- Sewers (storm sewers for rainwater, sanitary sewers for bathroom waste)
- Water main distribution
- Gas mains
- Conduit for communications and electrical
- Shoring

Structural Concrete

Concrete work comes in many forms. Concrete is used for slipform paving on highways and roadways, as cellular concrete to fill voids and provide insulation, and as structural concrete for structures such as lift stations, buildings, etc. Structural concrete is used in big applications to ensure the integrity of the project. It is used in vertical construction projects, erecting buildings, and horizontal projects like paving driveways and sidewalks. Depending on the project's size or complexity, RP Constructors can either self-perform the work or assist. For example, RP Constructors can design the work and then hire a subcontractor to set the rebar.



Structural concrete is part of many concrete projects. Bridges, floodwalls, wind turbines, parking structures, and buildings all use structural concrete. RP Constructors has self-performed or assisted on various private and governmental projects, including the Iowa DOT, City of Sioux City, and local manufacturing facilities.



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Heavy-Civil Underground, Concrete Paving & Structural Concrete

