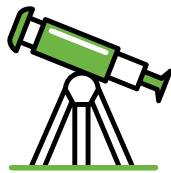


Case Study:

NUTRIEN HIGHLINE PHASE 1

Nutrien, one of the world's largest crop inputs and service providers, contracted Spark Power to plan and design high voltage cable tray infrastructure for the replacement of existing underground 15KV cables as part of the agrium Highline Phase 1. This replacement improved the reliability of the customer's overall power system. Spark has proudly worked with Nutrien for the past decade and, prior to this project, provided technical services and expertise for Nutrien's Redwater Plant Site, all within budget and on a tight schedule.



Scope

- Prepared civil, structural and electrical drawing packages to provide power to all 15KV substations onsite.
- Created structural steel, road crossing and foundation layout drawings.
- Built a 3D model for the new cable tray routing and structural steel.
- Delivered a modular structural design.



Testimonials

"I want to formally commend the entire project team at Spark for a job well done on meeting [the project's] target dates for the Highline piling, structural and electrical CWP's. The team has been extremely helpful in working through a project of this complexity and size, while meeting client expectations through all the changes and post 90% model review adjustments. The level of accountability to all client concerns is highly appreciated, and I look forward to continuing our professional relationship through to construction support and working together on future capital projects at Redwater."

- Redwater Fertilizer Operations



Solutions

- Developed highly detailed drawings with an onsite 3D laser scan.
- Provided a modular design for the structural steel, which helped to reduce on-site construction and installation costs.
- Modified the design, based on pile location Hydrovac results, to avoid interactions with underground utilities.
- Issued the project deliverables on a scheduled timeline.
- Ensured consistent compliance with all applicable codes and standards.



Challenges

- Located space for new piles due to the amount of underground utilities on site.
- Worked without pre-existing structural drawings for the existing pipe rack.
- Operated on a tight deadline.

Interested in learning more? Contact us at:
1-833-775-7697 or sales@sparkpowercorp.com

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