

EFCO'S NEWSLETTER FEATURING A SUCCESSFUL CONCRETE CONSTRUCTION PROJECT

# CIRCULAR FORMWORK REQUIRED FOR CONCRETE SHAFT

Washburn, North Dakota

1.5 Minute Read Time

# **CONSTRUCTION OF THE MISSOURI RIVER INTAKE**

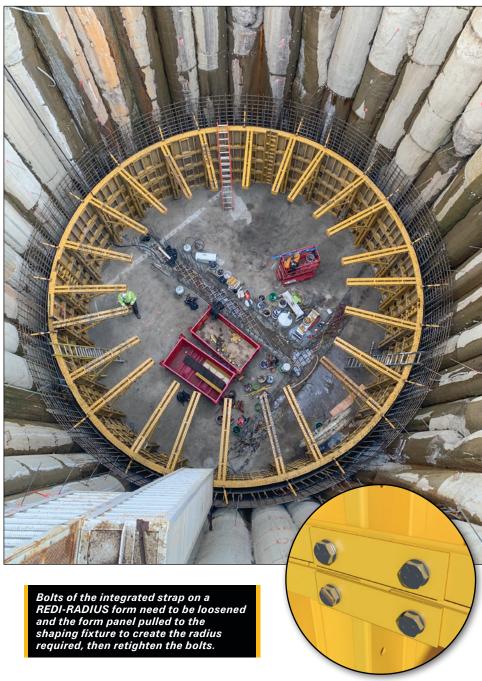
Michels Construction, Inc. partnered with EFCO to build the Missouri River Intake as part of the Red River Valley Water Supply Project. This project is being carried out to install an underground pipeline with the purpose of bringing water from the Missouri River to central and eastern North Dakota. The main goal of this project is to provide emergency water for the area.

### **REDI-RADIUS PROVIDES** A RELIABLE SOLUTION

The Michels companies have a long history of providing safe, reliable solutions for global energy and infrastructure requirements. Construction of the concrete shaft of the Missouri River Intake, measuring 40' in diameter x 62' in height (Ø12.2 m x 18.9 m), used EFCO's innovative REDI-RADIUS® EFCO's formwork system. all-steel REDI-RADIUS panels have adjustable steel straps that allow them to be shaped to any radius. For this project, EFCO provided a 40' in diameter x 13' in height (Ø12.2 m x 4.0 m) set of REDI-RADIUS formwork which acted as a compression ring, thus eliminating the need for ties. ▶

Using the EFCO full 360-degree picking form system was a game changer for our project. We increased our efficiency significantly and cycled each jump (12'-6") in less than a week. The EFCO system and their support directly impacted the successful completion of our project.

> Troy Paczesny Superintendent



INTEGRATED STRAP

#### **CONSTRUCTION OF CONCRETE DIVIDER WALLS**

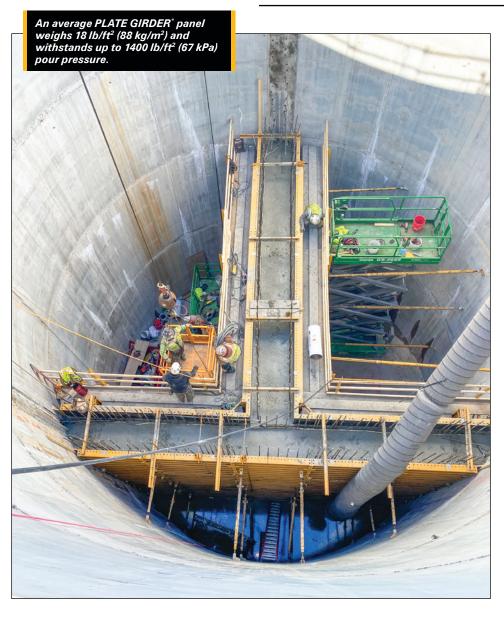
For constructing the 26' (7.9 m) tall T-shaped divider walls in a subsequent project phase, Michels Construction once again partnered with EFCO. They opted to use the PLATE GIRDER® system with SUPERSTUD® stiffbacks, which provided additional rigidity for the lifted pours. PLATE GIRDER formwork requires minimal ties and bracing, a crucial requirement considering the limited working space inside the shaft to work around the formwork.

# WHY MICHELS CONSTRUCTION **CHOSE EFCO**

#### **TIME & LABOR SAVINGS**

Michels Construction, Inc. found the benefit of quality engineered systems like REDI-RADIUS and PLATE GIRDER formwork systems to gain the lowest in-place concrete costs for this project. Time and labor savings came from robust and rigid formwork, few or no ties, minimal obstructions in limited space, and minimal finishing.

EFCO's REDI-RADIUS system offered Michels Construction a significant advantage to accelerate its schedule. Using a four-person crew, they were able to cycle the forms and achieve a rate of progress of 21 ft<sup>2</sup> (1.95 m<sup>2</sup>) per man-hour. SUPER STUD® bracing made it possible to safely strip the 360 degrees of formwork by unbolting it at four relief points in preparation to cycle the gang up as one unit.



#### **EFCO EQUIPMENT**

REDI-RADIUS, PLATE GIRDER, SUPER STUD

# **MICHELS CONSTRUCTION TEAM**

Cory McLean..... Senior Project Manager Troy Paczesny ...... Superintendent

# **EFCO FORMWORK** SPECIALISTS-CHICAGO

Joben Grimmius . . . . . Territory Manager Matt Harrington . . . . . . . Sr. Field Supervisor Zach Scholten..... District Engineer

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