



FREEBORN MOWER ELECTRIC COOPERATIVE NEW FACILITY UPDATE

As we transition into spring we will also soon be transitioning into our new facility. Construction remains on schedule and below budget, and we anticipate beginning relocation to our new permanent home in May. Thanks in large part to the sound building design provided by River Valley Architects, the team at Market & Johnson and all of the local subcontractors who have been involved in the project have been able to provide a state-of-the-art facility that FMEC can call home for many decades to come.

Energy efficiency was an important principle we incorporated into the facility design. For example, there are seventy-six one inch vertical geothermal wells drilled to just over 200 feet in depth and over 15,000 feet of vertical bore loops. These wells will provide all of the energy for the office, and in floor heating is gained or rejected through these wells. The new facility also has geothermal heat pumps serving the 73,000 feet of in-floor tubing in the warehouse and truck wash bay and can generate over 630,000 BTU's of heating capacity.

The office space will be conditioned by a "State of the Art" Variable Refrigerant Flow" (VRF) system. This system only works at the rate required to condition the space at a substantial energy savings. It's an excellent example of how new technologies are driving energy efficiency and reducing the amount of energy we need to use. Who knew that keeping cool could be so cool.

WHAT'S INSIDE FREEBORN MOWER ELECTRIC COOPERATIVE'S NEW FACILITY?

There are **48,377 FEET** of conduit throughout the building.

There are **189,500 FEET** of electrical wiring located throughout the building.

There are **107,875 FEET** of low voltage cable throughout the building.

A total of **2,697 SHEETS** of insulation were used for the exterior foundation walls and under slabs.

There are **118 TONS** of structural steel within the building.

There are just under **50 TONS** of steel rebar to reinforce the concrete.

