

## ADEQUATE ENGINEERED PROTECTION PREVENTS POTENTIAL HAZARDS

### NEW SOUTH CREWS OVERCOME PROJECT SITE CHALLENGES FOR TRANSMISSION RELOCATION IN ILLINOIS

Four transmission towers each 260 ft. tall, the second tallest on ComEd's system, needed to be relocated to make room to install a new mile long bridge on I-294 for the tollway.

NEW SOUTH project managers had to come up with an access plan that would allow ComEd to relocate the towers, without disturbing the public or the land.

After walking the site and factoring in all of the challenges it presented, NEW SOUTH created an engineered matting design that utilized multiple mat types to protect the waterways and pipelines surrounding the area.

In order to maintain maximum protection for the pipelines and waterways, NEW SOUTH utilized engineered crossings and propping systems for any equipment over 80,000 lbs. This equipment included one 600 ton crane, three IMT 350 drill rigs with an operating weight of 275,000 lbs, a 300 ton Manitowoc crane used by the drilling contractor, 300 concrete trucks that brought concrete to the site and 300 loads of spoil trucks that removed spoil from the site.

Creating an access plan that detailed each step of the process made it easy for ComEd to avoid any negative impacts and get the job done safely.



 Access Planning

 ComEd

 NORTHEASTERN, IL

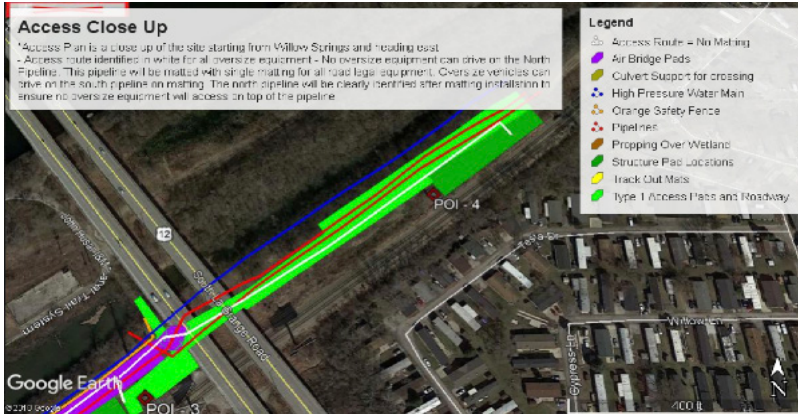
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### CHALLENGES

- Boundaries
- Consequences
- Seasonal Weather

## ACCESS PLANNING

Relocating 4 of the second largest transmission towers on ComEd's system, with challenges surrounding them, requires a well thought-out and detailed access plan.



## CHALLENGES

### BOUNDARIES

**1** The narrow right-of-way, only 80 ft. wide, fell between an active waterway to the North and two active railroad tracks to the South. The railroad line was a combination of freight and passenger trains that would go by the jobsite daily, at speeds in excess of 80 MPH.

### CONSEQUENCES

**2** On the right-of-way were two shallow water mains, only 11 inches deep in some areas, that supply water to around 200,000 people. Also, two pipelines in this corridor supply fuel to the airport. With these two underground facilities, not protecting these with adequate engineered protection could cause a catastrophe, potentially shutting water off to over 200,000 people or shutting down a major airport.

### SEASONAL CONDITIONS

**3** The different seasons complicated matters on the project site with extreme amounts of snow at the start of the project to early spring thawing toward the end, causing weekly issues needing to be overcome throughout the execution of this project.

## PROJECT STATS

**4,500**

### MATS

used to complete project

**4**

### MAT TYPES

emtek, CLT, Timber and Clean Exit Mats

**7**

### MONTH

project duration



**LET'S JOIN FORCES.**

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