

WIRELESS ENGINEERING SERVICES & SOLUTIONS



Congruex was formed in 2016 and provides digital infrastructure solutions including engineering, construction, and specialty services.

The company's wireless solutions enhance network deployments and infrastructure management, and address evolving operational challenges of mobile network operators and tower companies. Congruex has integrated over 20 specialty firms nationwide and helped establish the Mobile Infrastructure Engineering Consortium (MIEC) with top telecom structural engineering firms to elevate wireless engineering standards on a global scale.

Specializing in wireless engineering services for mobile network operators and tower companies, Congruex leverages proprietary software and patented tower modification techniques to deliver optimized structural designs and automated workflows for deploying, expanding, and maintaining cell site infrastructure. This data-driven approach accelerates time-to-value, maximizes operational efficiency, ensures compliance, and reduces risk.

FIELD SERVICES

- Site Acquisition & Permitting
- CD's / A&E Drawings
- Full Integrated Delivery Construction
 - Tower & Mount Modifications
 - Mount Installations
 - Civil Construction
 - Compound Expansion & Restoration
 - Charging Stations & Telecommunications Infrastructure
 - Outside Plant
 - Boring Fiber Installation
 - Fiber Splicing
 - Fiber Testing
 - Material Management
 - Freight
 - Storage
- Crane & Crane Management
- Generators
 - Installation
 - Service & Maintenance
- Antenna & Line Services
 - Gin Pole
 - Sweep & OTDR Testing
- Maintenance Condition Assessment (TIA) Inspections
 - Trouble tickets, PIM Mitigation, HVAC
 - SOW Review/Development
 - Remediation
- Small Cell Program - Full Deployment



ENGINEERING SERVICES

Mounts

- Mapping and Analysis
- Modification Design Drawings
- Post Modification Inspection (PMI)

Towers & Poles

- Analysis
- Modification Design Drawings
- Due Diligence Documents
 - Tower Mappings
 - Foundation Mappings
 - Geotechnical Reports

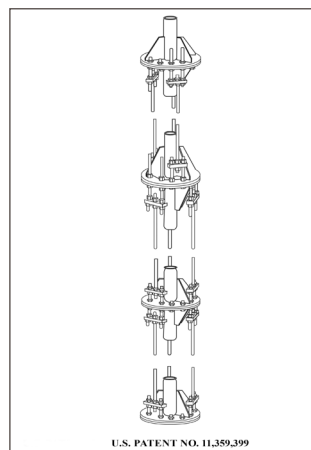


INTERPRETIVE SOFTWARE TOOLS & ENGINEERING SOLUTIONS

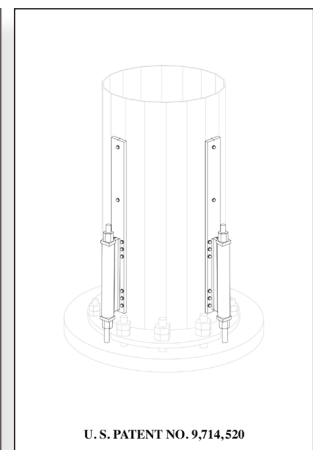
- Tower, Pole, & Mount Programs
- Construction Management Portal
- Maintenance Condition Assessment
- Mobile Application & On-Line Tool
- DAS & Venue - Full Deployment
- Integration Services
- Data Center
- RF Design
 - Initial Design & Drive Test

PATENTED TOWER MODIFICATION SOLUTIONS

- **Link-Plate™ & Direct Anchorage™ Termination**
For Monopoles
- **Spine Saver™**
For Concealed Design Structures
- **Guy-Lock™**
For Guyed Towers



Spine Saver™



**Direct Anchorage™
Termination**

Additional patents pending - see <https://www.congruex.com/patented-solutions/tes-patented-solutions>