

UTILITY INFRASTRUCTURE

As utility companies strive to meet the needs of increasing power demands while incorporating green technologies, **M&S** has been there to provide them with overall civil support. As a multi-disciplined firm, we can offer services from the initial site feasibility screening through to construction services for new substations and transmittal lines as well as modifications to existing facilities. This depth of services allows **M&S** to address any problems that may arise throughout the design process with innovative and cost effective solutions.



Services:

- Site feasibility including:
 - Site screening for environmentally sensitive areas
 - Preparation of constraints maps
- Survey basemapping
- Environmental permitting
- Plans and testimony for municipal zoning and planning approvals
- Design of Transmission Lines ranging from 34.5 kV - 230 kV
- Structural design of monopole, dead end structures, wood and laminated poles
- Final construction documents for bid
- Construction stake-out
- Construction support

UTILITY COORDINATION & DESIGN

M&S understands that for a successful completion of any project, coordination with utility companies early in the design process is of paramount importance. **M&S** has the experience to follow utility coordination from concept through construction in compliance with the client's utility process particularly with the NJDOT, NJTA, and PennDOT procedures. This knowledge and experience allows for seamless coordination in making initial contact, obtaining as-built data, developing utility relocation plans, completing utility checklists, and preparing utility agreements. Relationships developed over years of working with various utility companies prove invaluable in getting the utility process completed.



Services:

- Utility Survey and Mapping
- Utility Coordination and Design
- Utility Plans, Checklists and Agreements
- Substation layout, grading and drainage design
- Transmission and distribution line design