

COMPREHENSIVE OSP SOLUTIONS

At Patriot Broadband Technologies, we pride ourselves on delivering a turnkey solution for outside plant (OSP) projects.

Our team's unparalleled expertise, commitment to quality, and thorough project execution ensure every project is completed to the highest standards. We provide a personal touch and attention to detail that sets us apart from our competitors, offering our clients peace of mind and exceptional results.

PRECISION PLANNING



Enhance project efficiency and accuracy with our meticulous pre-build procedures. Our comprehensive approach ensures that every detail is accounted for before construction begins, setting the stage for a successful project.

- ▲ **Detailed Surveys:** Conduct thorough surveys to gather precise data on site conditions, utility locations, and other critical factors. This ensures all potential challenges are identified early, preventing delays and issues during construction.
- ▲ **Walk-Out Planning:** Perform physical walk-outs to inspect the route and identify any unique challenges that may not be evident from surveys alone. This hands-on approach allows for real-time adjustments and precise planning, ensuring the project stays on track and within budget.
- ▲ **Project Management Plan:** Develop a detailed Project Management Plan using data gathered from surveys and walk-outs. This plan includes timelines, resource allocation, risk management, and communication strategies to ensure smooth execution and coordination throughout the project.



COMPREHENSIVE UNDERGROUND CONSTRUCTION

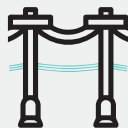


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- ▲ **Trenching:** Excavate trenches to precise depths, ensuring sufficient backfill cover to protect the cables. In rocky conditions, concrete slabs provide additional protection.
- ▲ **Directional Boring:** Utilize directional boring techniques to install conduits, minimizing surface disruption and ensuring robust pathways for cable placement. This method is especially useful for crossing roads and other obstacles.
- ▲ **Conduit Installation:** Install conduits efficiently, ensuring they are well-protected and easily accessible. Conductive marker tapes are used for future cable location.
- ▲ **Cable Pre-installation Procedures:** Inspect and test all cables upon delivery to ensure they are undamaged and ready for installation. Proper handling and storage are critical to maintaining cable integrity.
- ▲ **Pulling Tension & Bend Radius:** Monitor pulling tension and adhere to recommended bend radii to prevent damage during installation. Lubricants and proper pulling techniques ensure smooth cable deployment.
- ▲ **Duct Installation:** Implement best practices for duct installation, including using de-coilers to prevent twisting and bending, ensuring a smooth and efficient process.



EFFICIENT ABOVE GROUND SOLUTIONS



Deploying fiber optic cables above ground on poles or towers offers a cost-effective and rapid deployment method, especially in challenging terrains.

- ▲ **Pole Preparation & Installation:** Survey and prepare poles for cable installation, ensuring proper spacing and secure placement. Poles are set to precise depths for stability.
- ▲ **Cable Lashing:** Use both moving and stationary reel methods for lashing cables to messenger wires, ensuring secure and stable aerial cable installation.
- ▲ **ADSS Cable Installation:** Install All-Dielectric Self-Supporting (ADSS) cables without additional support wires, making them ideal for long spans and challenging environments.



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FINALIZATION AND QUALITY ASSURANCE



We ensure that all installations meet the highest standards of quality and compliance, providing a reliable and efficient network.

- ▲ **Splice Closures & Slack Management:** Carefully manage cable slack and secure splice closures to ensure network reliability and easy access for maintenance.
- ▲ **Post-Installation Repairs & Reinstatements:** Restore all surfaces to their original state or better, ensuring minimal disruption and a clean finish.
- ▲ **Safety & Compliance:** Adhere to all safety regulations and environmental guidelines, ensuring a safe and compliant work environment.

