

# 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

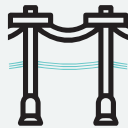


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- ▲ **Trenching:** Excavate trenches to precise depths, ensuring sufficient backfill cover to protect the cables. In rocky conditions, concrete slabs provide additional protection.
- ▲ **Directional Boring:** Utilize directional boring techniques to 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.

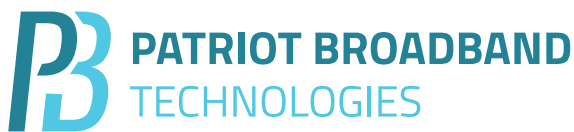


## EFFICIENT ABOVE GROUND SOLUTIONS



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.
- ▲ **Live Project Monitoring:** Using advanced project management software, we report on work in-progress or scheduled and maintain a photographic record of each location to keep you informed.
- ▲ **Safety & Compliance:** Adhere to all safety regulations and environmental guidelines, ensuring a safe and compliant work environment.

