

PAR Electrical Contractors, Inc.

X178 Work Plan

Eversource New Hampshire





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Background

PAR Electrical Contractors, Inc. (PAR) has been asked by Eversource NH to develop a work plan to remove debris from a past project in the White Mountain National Forest. The debris mainly consists of old poles, pole pieces and miscellaneous hardware. The area in question has extremely limited access for the appropriate equipment to complete the job with conventional methods. PAR is proposing a predominantly aerial approach via helicopter to mobilize manpower into the work areas as well as the removal of the debris. Winco Powerline Services, a Division of PAR Electric, would conduct the aerial operations for the project.

Safety

There are two key elements in construction – pre-construction planning and performance accountability – that will provide a workplace free of hazards and negligible acts that cause incidents. PAR will utilize its team of experienced safety professionals to implement and manage these pre-established elements.

PAR is committed to safety and believes that the proper management will result in the successful completion of this project, on time and within budget. Our Safety Plan consists of various programs and procedures including:

- Project safety orientation
- Job hazard analysis
- Pre-task analysis or tailboard
- Work site inspection
- Work environment
- Equipment inspections
- SDS
- Lift plans
- Subcontractor accountability

When properly observed, these processes provide a solid foundation for the prevention of incidents that may cause property loss, financial setback, schedule delays and a loss of project morale or personnel resources. Joe Dionne, PAR's Senior Safety Coordinator in the region, will implement the safety program for this project. He, and/or his designee, will be on-site at all times.

One of the most critical aspects of producing a successful Project Safety and Health Program is to set the tone from the beginning. A No Tolerance standard for unsafe workplace conditions and acts must be established at the start of the project. Our field employees as well as the subcontractors and their employees are made aware from the onset that safety will play a significant role in the success of the project.



PAR requires all employees to go through a pre-employment orientation. The orientation is comprised of many topics, from company policy to safety procedures and expectations to specific project requirements. In addition, all new employees are required to have completed a drug and alcohol test to be eligible for employment on any PAR project.

All PAR crew members will have constant communication, via 2-way radios and/or satellite phones, with the Winco Pilot. In addition, the General Foreman will monitor all communication throughout the project to ensure compliance with the project requirements and safety plan.

Please see the attached Health and Safety Plan for detailed information.

Given Scope of Work

The debris to be removed is scattered over three towns; Easton, Lincoln and Woodstock. The scope in each town is consistent with varying amounts of debris in each town, see attached spreadsheet. We will only be removing poles that can be accessed safely, are not completely rotted, and can be removed with minimal impacts to wetlands or sensitive areas.

To ensure environmental compliance, PAR will work closely with Normandeau Associates, Eversources Environmental Contractor, throughout the project.

1. Easton, NH
 - a. Approximately 27 old poles to be removed.
 - b. Debris located between X178 structure 266 and 291
2. Woodstock, NH
 - a. Approximately 41 old poles to be removed
 - b. Debris located between X178 structure 199 and 210
3. Lincoln, NH
 - a. Approximately 147 old poles/pieces to be removed.
 - b. Debris located between X178 structure 211 and 264



Execution Plan

Prior to construction, designated landing zones / staging areas will be established. We anticipate needing two of these areas, one at each end of the 8 mile project. Once these locations are established, multiple dumpsters will be spotted. These landing zones will also serve as staging and re-fueling areas. Prior to any flight operations, all affected towns, applicable organizations and local emergency responders will be notified of the aerial activity.

Extraction operations would commence in Woodstock at the approximate half way point of the project. Three, three man crews will be flown to each work location via the Human External Cargo (Longline) method. When applicable they will hike from one location to another. If permitted, low impact ATV's could be air lifted in which would reduce the amount of crew transfers and expedite the extraction process. These crews will be equipped with chainsaws and hand tools to chunk the poles into manageable sizes. All debris will be placed at the outside of the ROW, towards the tree line, for removal. Waste Management: 3CY Bagsters will be filled to approximately 800 pounds for the extraction. A dynamometer will be attached to the rigging to verify the load. The helicopter will fly the Bagster to the nearest landing zone where the support crew will release the load and place the debris into dumpsters. Each Bagster will be limited to a one-time use on this project. This process will be repeated until all debris has been removed.

We are contracting with Pinard Waste to complete the disposal for all items removed from the ROW. All debris will be hauled to approved waste facilities.

Schedule

Upon receiving a Notice to Proceed, PAR requests a minimum of two weeks to prepare our crews and equipment fleet for the project. We will begin the project working Monday – Friday from 6:30am to 6:30pm. The helicopter would arrive to the landing zones at approximately 7:30am each day.



Resources

Equipment List

- (3) Pick Up Trucks
- (2) Flatbed Man Hauls
- (1) 30/60 Digger
- (1) Huse MD-500E Helicopter
- (1) Excavator

Manpower

- (1) General Foreman
- (1) Foreman
- (5) Journeyman Lineman
- (2) Apprentices
- (1) Pilot
- (1) Fuel Man