

## **APPENDIX A: CONSTRUCTION PLAN**

**CONSTRUCTION PLAN**  
**for the**  
**APPALACHIAN NATIONAL SCENIC TRAIL AND SHENANDOAH**  
**NATIONAL PARK SERVICE PROPERTIES**  
**Albemarle and Augusta Counties, Virginia**

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- D. Typical Structure Diagrams
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## INTRODUCTION AND PROJECT LOCATION

Dominion Virginia Power (“Dominion” or the “Company”) proposes to upgrade its existing 115-kilovolt (kV) transmission line (constructed in 1957) that crosses National Park Service (“NPS”) park property in the vicinity of Jarman’s Gap to a 230-kV line design (the “Project”). The upgrade will occur entirely within the existing right-of-way. This Project lies between the existing Dooms Substation in Augusta County and Brems Substation in Fluvanna County, Virginia. An overview of the Project area is shown in Attachment A with an accompaniment of Attachment A.1. The need for the Project arises in order to ensure that Dominion can continue to provide reliable electrical service to customers served off this line, including the cooperatives Central Virginia Electric Cooperative and Appalachian Power Company and to keep the Company in compliance with mandatory North American Electric Reliability Corporation standards to increase capacity as well as Dominion’s own planning criteria. Power flow studies indicate Dominion’s transmission facilities will not meet North American Electric Reliability Corporation standards if the Project is not in service by summer 2014. Failure to address these projected North American Electric Reliability Corporation violations could lead to the loss of service and potentially damage the Company’s electrical facilities in this area, significantly impacting electrical service and the region’s economy. The new facilities will be operated at 115 kV until the 2017 timeframe, at which time power flow studies indicate the operation will need to be converted to 230-kV operation.

Attachment B.1 provides an exhibit showing the existing infrastructure across NPS property, and Attachment B.2 shows the proposed infrastructure using steel monopoles as it is proposed across NPS property. The approximate average height of the new structures is 100 feet versus the existing approximate average height 56 feet.

Dominion will file all necessary construction permits for road, stream, and railroad crossings with the appropriate agencies. Construction on the Project is scheduled to begin on the eastern end of the Project in Fall 2013 and is scheduled to be completed and energized in Spring 2014. Construction will be intermittent due to weather and scheduled outages.

This *Construction Plan* addresses a portion of the Project, approximately 2,926 feet long, that traverses property owned by the federal government and managed by the U.S. Department of the Interior, National Park Service in Augusta County, Virginia on an existing right-of-way.

The current 300-foot-wide right-of-way contains one single-circuit 500-kV transmission line, one double-circuit 230-kV transmission line, and the subject transmission facilities that are located between these other described lines.

All construction activities on NPS property will be in accordance with this *Construction Plan*, which will be considered final when the permit is issued. Where the Project crosses NPS properties, the new line will be installed completely within the existing 300-foot-wide corridor as described above. The Dominion line to be removed and replaced was originally constructed in 1957 prior to the adoption of the Appalachian Trail Amendments to the National Trails System Act in 1978 and prior to Shenandoah National Park acquiring its property. Subsequent to the acquisition of the property by Shenandoah, the Company acquired a special use permit. Attachment C provides the relevant right-of-way easement documents and the original special use permit.

This *Construction Plan* summarizes the procedures that Dominion will use to accomplish the following:

1. Maintain the unobstructed and safe passage of Appalachian Trail hikers and NPS visitors during construction.
2. Minimize adverse environmental effects.
3. Remove the existing 115-kV transmission line from the existing right-of-way on NPS property.
4. Upgrade an existing wooden H-frame 115-kV line as a proposed 230-kV steel H-frame.
5. Restore the impacted portions of NPS property after the completion of line installation.

## **CONSTRUCTION PROCEDURES FOR NPS PROPERTIES**

Dominion will adhere to Virginia Department of Conservation and Recreation, State Corporation Commission, U.S. Army Corps of Engineers, and Department of Environmental Quality regulatory requirements, and Dominion construction specifications, including those pertaining to safety, environmental inspection, storm water pollution prevention, and erosion and sediment control for the crossing of the park property. The erosion and sediment control specifications are detailed in Dominion's *2011 Erosion and Sedimentation Control Specifications*, which are provided in Attachment E. Dominion will coordinate the construction procedures with the NPS to include all reasonable control measures identified during the environmental review process.

## **NOTIFICATIONS AND COORDINATION WITH THE NPS**

### **PRECONSTRUCTION NOTICE AND CONFERENCE**

Dominion's anticipated start date is immediately following the issuance of the permit. Dominion will notify the park superintendents to arrange a preconstruction conference. The park superintendents' contact information is as follows:

Ms. Rita Hennessy (acting superintendent)  
Appalachian National Scenic Trail  
P.O. Box 50  
Cook Hall, 252 McDowell Street  
Harpers Ferry, W.VA 25425  
Telephone: 304-535-6170  
rita\_hennessy@nps.gov

Mr. Jim Northup (superintendent)  
Shenandoah National Park  
3655 U.S. Hwy. 211 East  
Luray, VA 22835  
Telephone: 540-999-3500 x3100  
Jim\_Northup@nps.gov

The park superintendents (and/or designated representatives) will attend a preconstruction conference with Dominion to review the terms and conditions of the easement across NPS properties, verify locations of sensitive resources in the field (the Appalachian Trail footpath, historic guard wall, Skyline Drive, Sawmill Run, etc.), and confirm the construction procedures to be used to minimize adverse effects to such resources. Dominion's field construction personnel (e.g., personnel from the construction staff and permitting/environmental staff) and representatives of Dominion's construction contractor will attend the preconstruction conference.

### **NOTIFICATION REQUIRED PRIOR TO ENTRY ONTO NPS PROPERTIES**

Dominion will provide the NPS park superintendent (or designated representative) with notification of construction work commencement at least 24 hours prior to entry onto NPS lands. The expected date of construction is immediately following the issuance of the special use permits for construction. Immediate notice will be provided to the park superintendent (or designated representative) for any emergency entry onto NPS property that will involve surface-disturbing activities following the period of construction.

### **COORDINATION WITH NPS REPRESENTATIVES, INSPECTION, AND ISSUE RESOLUTION**

During construction on NPS lands, Dominion will coordinate with NPS representatives who will be assigned to monitor the conformance of the construction on NPS lands, to the terms and conditions of the special use permits for construction. Dominion will provide NPS representatives with relevant contact information for Dominion and contractor representatives involved in work activities on NPS properties.

Dominion will appoint a construction coordinator who will be available and on duty during active construction activities across NPS lands and will be the primary point of contact with the NPS representatives. In the event an issue arises on NPS property, the park superintendent or designated representative will consult, if possible, with the construction coordinator to resolve the issue prior to issuing any stop work (task) directive. If the issue cannot be resolved, a stop work (task) directive may be issued, pending the resolution of the situation. The construction coordinator's contact information will be provided to the park at the preconstruction conference with the park and Dominion.

## **GENERAL CONSTRUCTION PROCEDURES**

Prior to construction, Dominion and the NPS will conduct an inventory of survey markers for comparison after the completion of construction. Any NPS monuments will be clearly marked with flagged stakes and colored flagging tape, which will be removed after construction. Stakes will be metal fence post stakes, approximately 4 feet tall. Any boundary markers damaged by Dominion or its contractors will be repaired or replaced (at Dominion expense) per NPS specifications. The boundaries of the right-of-way within NPS land is hereby referred to as the construction work area or CWA.

In an effort to help identify the NPS property line, Dominion will mark the NPS property line as it passes through the parks. Property boundaries will also be marked in a similar manner as the NPS monuments, that is, with flagging and stakes. This will clearly mark the NPS boundaries on either side of the crossings to ensure that all construction contractors know the right-of-way boundary and that no painted boundary trees or boundary monuments are damaged during construction.

It is not anticipated that trees will be removed for the project since the Dooms – Bremono line is in the center of a cleared 300-foot wide easement. Vegetative materials removed will be mulched or chipped, unless otherwise preferred by NPS. Such mulch/chips will be temporarily stockpiled within the CWA for subsequent use in restoring the CWA. Prior to use for restoration, Dominion will ensure that stockpiled mulch is free of weeds and/or invasive species. If necessary and at the direction of the park superintendent's representatives, large-diameter, merchantable trees may be (a) cut and windrowed if topographic conditions allow and adequate space is available within the CWA, (b) cut and chipped, or (c) cut and removed from the CWA.

During all construction activities on the right-of-way and within NPS lands, a construction monitor will be present to ensure that all measures and specifications described in the Construction Plan, the Environmental Assessment, and dictated in the special use and right-of-way permits are adhered to.

## CONSTRUCTION METHOD AND GENERAL SCHEDULE

As described above, any excess vegetation on the right-of-way will be trimmed prior to construction to maintain the existing 300-foot-wide right-of-way, and any danger trees that are identified will be selectively removed. A survey will be performed to stake the new structure locations. The NPS property line will be marked to ensure that it is well defined during construction.

Dominion will keep any NPS gates closed and locked when not in use and at the end of each workday. The right-of-way, east of Skyline Drive, currently contains a dirt two-track road in most areas, which Dominion typically uses for any maintenance activities along the transmission line corridor. A new road will be constructed west of Skyline Drive to access tower 39/336. Construction of this access road would require substantial grading given the steep slope on the west side of Skyline Drive.

All access roads must be an average of 12 feet wide during times of construction to accommodate large machinery and necessary construction equipment. Access roads may be wider in places to accommodate sharp turns in the road. Widening will include the clearing of vegetation on either side of the road; however, gravel will not be added to this road unless measures are required for erosion and sediment control. Given the steep slopes on the eastern Appalachian Trail parcel and the area west of Skyline Drive, gravel will likely be used. If gravel is added, it will be removed after the construction is complete.

The following activities will take place through the course of construction, and some activities may overlap during the process. During the construction process, construction pads (cleared, level areas for equipment) will be developed immediately adjacent to each of the existing and proposed structures and will be approximately 100-foot by 100-foot squares (or smaller) and located at each structure location. These areas will serve as a level surface for construction equipment to sit. After construction, the original contours will be restored as close as practical and the area rehabilitated. In the immediate vicinity of the new structures, a level area will remain for future use, should cranes or other large equipment be needed for repairs and other maintenance; however, these areas will be reseeded using the approved seed mix.

To construct the new transmission line, the primary activities that will occur on the right-of-way within the CWA are as follows. Minor variations to the below construction sequence may be required due to weather, site conditions, scheduling, or outage restraints. Any such variations will be reported to the NPS superintendent as soon as identified and prior to implementation. No change will be made to the CWA or access roads as previously described.

1. **Remove Vegetation and Construct Access Roads** (described above).

2. **Install Foundations.** Install foundations for all new structures on NPS property (one foundation per structure, for a total of four). It will take approximately three months to pour the new foundation and one month to remove the existing poles.
  - a. Construction foundation crews will access the right-of-way via Calf Mountain Road or up the right-of-way with augers and concrete trucks. Construction pads will be prepared adjacent to each foundation. Foundation holes will be dug and poured with concrete at all new structure locations.
  - b. The existing wooden H-frame structures are direct-buried; therefore, no concrete foundation removal is required. Each area will be graded to match the surrounding contour and seeded with an NPS-approved seed mix. If topsoil is needed for reclamation, it will be brought into the site. Any fill material or soil brought to the site for any reason needs will be certified as weed free.
  - c. No blasting will take place, neither during removal of existing structures or installation of new structures. The existing towers will be disassembled utilizing cranes and then cut into moveable pieces to be taken off NPS property via large trucks.
3. **Erect New Structures.** Bringing in and erecting the new steel towers will take approximately two months.
  - a. Steel poles will be brought in using tractor-trailers and cranes. Poles will then be placed on the right-of-way adjacent to the new foundations.
  - b. Poles will then be erected onto their relative foundation using cranes.
4. **String Wire.** Stringing in the wire conductor and energizing the line will take approximately two months,
  - a. Construction crews will bring in wire-pulling equipment, which includes trailers with spools of wire, a wirepuller, and a bulldozer. This equipment will be used to pull in the wire conductors on new structures.
  - b. Wire conductors will not lie across Skyline Drive or the Appalachian Trail during the stringing of wire. Guard structures may be used as a safety precaution in the area directly over Skyline Drive or the Appalachian Trail. These guard structures (an example shown

below) consist of wooden poles resembling goal posts. These poles will raise the conductors off the ground while the new steel poles are erected.



#### **Example of the Guard Structures for Stringing Conductors across a Linear Feature**

5. **Rehabilitation of the Right-of-Way.** Rehabilitation will take approximately 1.5 months, and it is discussed below in section 6.

#### **LINE AND RIGHT-OF-WAY MAINTENANCE**

Dominion will implement a vegetation management plan for maintaining a low-growing plant community on NPS lands. The NPS is developing a vegetation management plan that is specific for the crossing of Shenandoah National Park and the Appalachian National Scenic Trail by the Doods-Bremo transmission line. The parks vegetation management plan will include NPS approved herbicides. Dominion's program uses successive, low-volume, selective spot treatment applications of EPA-approved herbicides that are designed to reduce and eventually eliminate the existing root mass left after the clearing of trees. Once the competition from these sprouts or brush is removed, the more desirable grasses and low-growing shrubs fill in and thicken to resist the seeding-in of tree species on the right-of-way. This extends the length of the maintenance cycle from a three-year cycle to a four- to six-year cycle, depending on the vegetation type and conductor height. Dominion has found that this creates a more diverse plant community on the right-of-way that is beneficial to wildlife and requires fewer disturbances to maintain. To prevent damage to nontarget species, no broadcast spraying will be done. A variety of herbicides and surfactants is proposed and purposely varied from one application to the next to avoid the development of resistance within the species present or the encouragement of those brush species that are resistant to any particular

product. Herbicides will be chosen from an NPS approved list and a pesticide permit must be obtained prior to use on NPS land. All herbicides will be used carefully to prevent leaching into the groundwater. Forty-five days prior to use, Dominion must submit information on chemical pesticides it anticipates using to the NPS. The park integrated pest management coordinator is required to obtain approval from the regional integrated pest management coordinator through the NPS Pesticide Use Proposal System prior to pesticide use.

At the time when line maintenance is done, all trees species expected to mature over 10 feet high in this environment would have previously been removed. This height requirement addresses regulations by the Federal Energy Regulatory Commission that no outages occur due to vegetation and will be the maximum height allowed in the right-of-way. During all future maintenance, care shall be taken to prevent damage to Skyline Drive, the Appalachian Trail, and surrounding landscape planting.

#### **WATERCOURSE AND WETLAND CROSSINGS**

Field surveys were conducted within right-of-way (and an additional 10 feet on either side) to determine if any watercourses or wetlands are present on NPS property at this crossing. A small wetland was found on the eastern Appalachian Trail parcel, and will be avoided and flagged by a 10-foot buffer during construction.

#### **WILD FIRE PREVENTION MEASURES**

No activities that could create a fire danger are anticipated. However, should the need arise to use equipment such as welding, grinding, and other activities that would create sparks, fire control equipment will be available on site.

#### **STORAGE AND DISPOSAL OF WASTE AND CONSTRUCTION MATERIALS / EQUIPMENT**

Construction areas will be maintained in a sanitary condition at all times; waste materials (including but not limited to human waste, trash, garbage, refuse, oil and petroleum products, and ashes) will be disposed of promptly at a state-approved off-site waste disposal facility. Dominion's construction contractor will store equipment on the CWA. This will occur during regular work hours, as well as in the evenings and potential nonworking periods. During the crossing of Skyline Drive or the Appalachian Trail, no equipment or materials shall block the drive or the footpath. Once construction is complete across the NPS lands and restoration of the sites is finalized, all equipment and materials will be removed.

## **CULTURAL RESOURCE PROTECTION**

As part of preconstruction Project planning, Dominion conducted cultural resource surveys of the CWA, including the CWA on NPS properties. Also, Dominion would hire a construction monitor, who would also be a field archeologist, to be present on site at all times during construction.

In addition, Dominion has developed an unanticipated discoveries plan that defines the procedures to be followed in the event that cultural materials are uncovered during Project construction. If cultural and/or paleontological resources are discovered during construction activities on NPS property, Dominion will immediately inform the NPS superintendents (or representatives) and will work with the Virginia State Historic Preservation Office (SHPO) to define appropriate mitigation measures. Any artifacts found on NPS lands are recognized as the property of the NPS. The unanticipated discoveries plan is described below:

Dominion will ensure that construction documents contain the provisions that follow for the treatment of unexpected discoveries. First, in the event that a previously unidentified archeological resource is discovered during ground-disturbing activities, Dominion's contractor or staff will notify the appropriate NPS Superintendent or cultural resource staff. Dominion will then immediately notify the SHPO. All construction work involving subsurface disturbance will be halted in the area of the resource and in the surrounding area where further subsurface remains can be reasonably expected to occur. Dominion and the SHPO, or an archeologist meeting the Secretary of the Interior's Professional Qualifications Standards (48 FR 44 738-9), will immediately inspect the work site and determine the area and the nature of the affected archeological property. Construction work may then continue in the construction area outside the site. Second, Dominion will consult with the SHPO to determine the National Register of Historic Places eligibility of the previously unidentified resource. Potentially eligible historic properties will be evaluated using the National Register criteria in accordance with 36 CFR 800.4(c). If SHPO determines that the resource meets the National Register Criteria for Evaluation (36 CFR Part 60.6), Dominion shall ensure compliance with Section 800.13(b)(3) of the Advisory Council on Historic Preservation's regulations. Work in the affected area shall not proceed until a determination is made that the located resource is not eligible for inclusion on the National Register.

Additional cultural resources protection measures include:

1. To ensure protection to the historic guard wall, Dominion would install jersey barriers between the guard wall and the area of disturbance and between the guard wall and Skyline Drive for either action alternative. Additionally, Dominion would install orange construction and silt fencing on the west side of the guard wall. All jersey barriers and fencing would be placed about 10 feet, to the extent practical due to the topography, from the historic guard wall to further ensure protection of the resource.
2. Loading and unloading the drill rig from the tractor trailer to the construction pad and access road could potentially impact the roadbed. Dominion would try to avoid having the drill rig contact the roadbed; however, to ensure protection of the roadbed, rubber tire mats or fiberglass mats would be placed on the roadbed surface when moving the drill rig from the tractor trailer to the construction pad and moving the drill rig from the construction pad to the tractor trailer.
3. Given the weight of the construction materials required to access the project site from Skyline Drive, Dominion would inspect all bridges prior to construction to evaluate the structural integrity of the bridges and determine if reinforcements would be necessary for equipment to cross. If reinforcements are necessary, Dominion would submit a proposal to the NPS for approval, to ensure proposed reinforcements are completed in a way to avoid impacts to the cultural landscape.
4. Any damages to the roadbed surface in the vicinity of the construction site (including paving) would be the responsibility of Dominion to repair. Additionally, a bond (an amount to be determined as a condition to the permit) would be issued by Dominion to account for any potential future damages to the roadbed surface, underlying structure of Skyline Drive, and/or the historic bridges.

#### **STORM WATER POLLUTION PREVENTION PLAN**

Dominion will file a Virginia Storm Water Management Plan as required for this Project and will comply with all conditions of the related permit. Potential pollution sources on site include equipment fueling, sanitary waste facilities, limited chemical usage, construction debris, litter, and concrete wash down.

1. Equipment fueling will take place with a fuel truck that will visit each piece of equipment at its respective location, which will inherently be at or near each structure site. Crew cabs, pickups, concrete trucks, and other vehicles and equipment will be refueled off site. Equipment that may need fueling includes drill rigs, cranes, and generators.
2. Care will be taken to avoid spills onto the site. Any accidental spill will be cleaned up immediately to avoid potential discharge. Oil spill cleanup materials will be kept on site in the

event that limited quantities of petroleum products are spilled, such as in the event of a hydraulic line break or fuel spill.

3. Portable sanitary facilities will be available on site at all times and serviced as appropriate.
4. No chemicals other than fuels and oils will be used during excavation or construction other than concrete-curing compounds commonly used for foundation construction.
5. Construction debris will be loaded into a container and removed periodically as required.
6. Litter will be loaded into a container as it occurs and removed periodically as required.
7. Construction debris, including broken concrete, litter, and all other debris will be disposed of in mobile containers and removed from the site for disposal in licensed facilities.
8. Dominion will hire a full-time, on-site contractor to monitor and maintain storm water and erosion controls. The contractor will ensure compliance with erosion, sedimentation, and storm water requirements.

#### **EROSION AND SEDIMENTATION CONTROL PLAN AND STORM WATER POLLUTION PREVENTION PLAN**

Dominion will develop an erosion and sedimentation control plan and storm water pollution prevention plan (as part of the National Pollution Discharge Elimination System permitting), which will establish goals for the control of erosion and sedimentation as a result of land-disturbing activities performed during the construction and a plan for prevention of pollution to storm water. Specific provisions are made for work related to temporary access roads, construction adjacent to streams for overhead lines, construction associated with structure foundation and structure erection, and erosion control device maintenance.

Additional erosion and sediment control measures agreed on by the NPS and Dominion include the below and will be implemented on NPS property:

1. No access roads or construction equipment will cross Sawmill Run.
2. Dominion will use a product called Regreen for any temporary seeding.
3. Dominion will ensure that their equipment will be well cleaned of soil before entering NPS land.

4. When permanent or temporary soil stabilization is required, the rolled erosion control product should meet the specifications used in other park projects. Acceptable materials include the following:
  - a. Short-term netless erosion control blanket. Furnish an erosion control blanket composed of processed biodegradable natural fibers mechanically interlocked or chemically adhered together to form a continuous matrix with 12-month typical functional longevity designed for use on geotechnically stable slopes with gradients flatter than 1V:4H and channels with shear stress up to 0.5 pound per square foot.
  - b. Short-term single-net erosion control blanket. Furnish an erosion control blanket composed of 100-percent biodegradable natural fibers, and stitched with biodegradable jute netting with a nonfixed and loose netting joint to form a continuous matrix with 12-month typical functional longevity designed for use on geotechnically stable slopes with gradients between 1V:4H and 1V:2H and channels with shear stress up to 1.75 pounds per square foot. Products include Curlex I FibreNet from the American Excelsior Co. or approved equal.
  - c. Short-term double-net erosion control blanket. Furnish an erosion control blanket composed of 100-percent biodegradable natural fibers, stitched with biodegradable jute netting with nonfixed and loose netting joints to form a continuous matrix with 12-month typical functional longevity designed for use on geotechnically stable slopes with gradients between 1V:2H and 1V:1.5 H and channels with shear stress up to 2.25 pounds per square foot.  
Products include Curlex II FibreNet from the American Excelsior Co. or approved equal.
  - e. The rolled erosion control product should not contain any form of plastic netting or thread, even biodegradable plastic. Also, the stakes used to secure the rolled erosion control product should be metal or wood, and not plastic of any type.
5. A 100-foot no-construction buffer will be maintained along Sawmill Run where it crosses the right-of-way.
6. No work should occur in any watercourses.

## **SAFETY AND PUBLIC ACCESS PROCEDURES: TRAIL CROSSING AND TRAFFIC CONTROL ON SKYLINE DRIVE**

Appropriate safety measures will be implemented to remove and replace the existing transmission line and install the new Dominion transmission line across NPS properties. Trail crossing safety and public access procedures are as follows:

1. Dominion recognizes that visitors may use the trail at any time. As a result, continuous access along the trail will be maintained outside of those brief instances referred to below for maintaining user safety.
2. Appropriate barriers, safety fencing, and/or signs will be installed at or along the NPS property crossings, prior to the initiation of construction activities on NPS properties. The objective of these measures will be to protect hikers / park visitors and to allow a safe passage across or around the CWA. Safety measures will be maintained throughout the construction process on NPS properties. When appropriate, Dominion's construction contractor will post personnel along the trail at appropriate distances from the CWA. Likely times when personnel will be needed include during clearing and other active construction activities. The personnel will inform hikers of the construction and regulate pedestrian traffic along the trail in order to avoid conflicts with construction work.
3. Appropriate warning signs will be posted in a previously approved fashion, as utilized on similar NPS projects.
4. Across the trail, the removal and replacement of the existing transmission line and the installation of the new Dominion transmission line will be performed as expeditiously as possible over the construction period.
5. All construction materials and construction equipment in the vicinity of the park property will be appropriately secured prior to cessation of work at the end of each workday. Construction equipment will not be placed on or near the trail footpath in such a way that would obscure the route or markings along the footpath.

## **RESTORATION, RECLAMATION, LANDSCAPING, AND VEHICULAR ACCESS CONTROL**

### **RESTORATION AND RECLAMATION OF THE RIGHT-OF-WAY**

After construction is complete, Dominion will restore the right-of-way per specifications in the vegetation management plan. The CWA restoration includes re-grading any contours that may have been disturbed or changed, as close as practical to the original contours, particularly contours moved to construct the access road to structure access to tower 39/336 (proposed tower 2139/131). This will be accomplished through spreading previously stockpiled topsoil; dispersing rock; installing permanent erosion and sediment control devices as appropriate; and liming, fertilizing, seeding, and mulching. These standard techniques are detailed in the erosion and sedimentation specifications.

### **INTEGRATED VEGETATION MANAGEMENT PLAN**

A vegetation management plan has been developed for the section of the right-of-way within NPS lands. The plan addresses both restoration of areas disturbed by construction of the transmission line and long-term maintenance of vegetation within the project right-of-way. The plan was created using input from NPS Denver Service Center vegetation specialists and Shenandoah National Park staff. The plan will be attached to the SUP Construction Permits and Right-of-Way Permits.

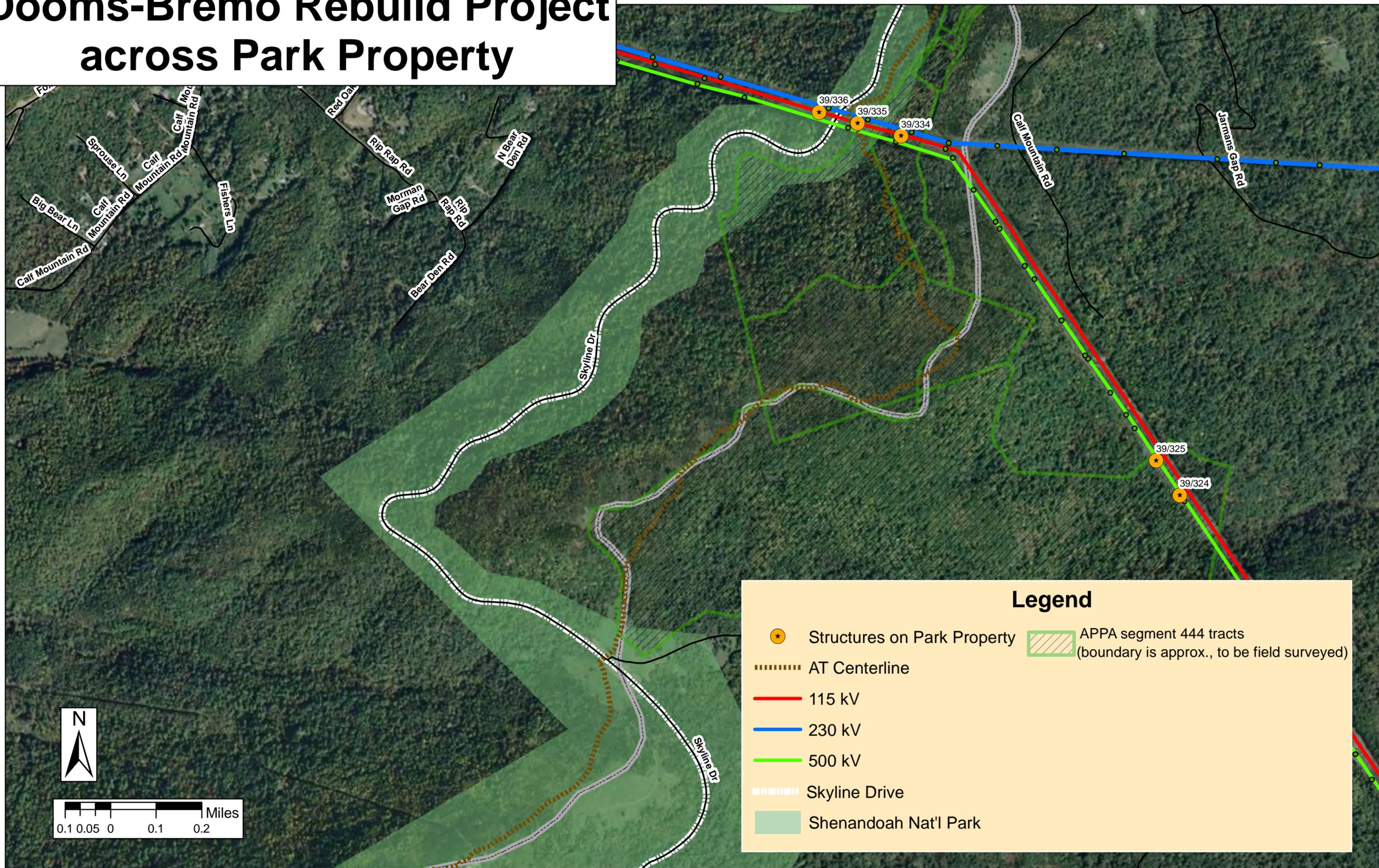
**Dooms – Bremono Rebuild Project**

**Attachment A**

**Project Maps**



# Dooms-Bremo Rebuild Project across Park Property



**Dooms – Bremono Rebuild Project**

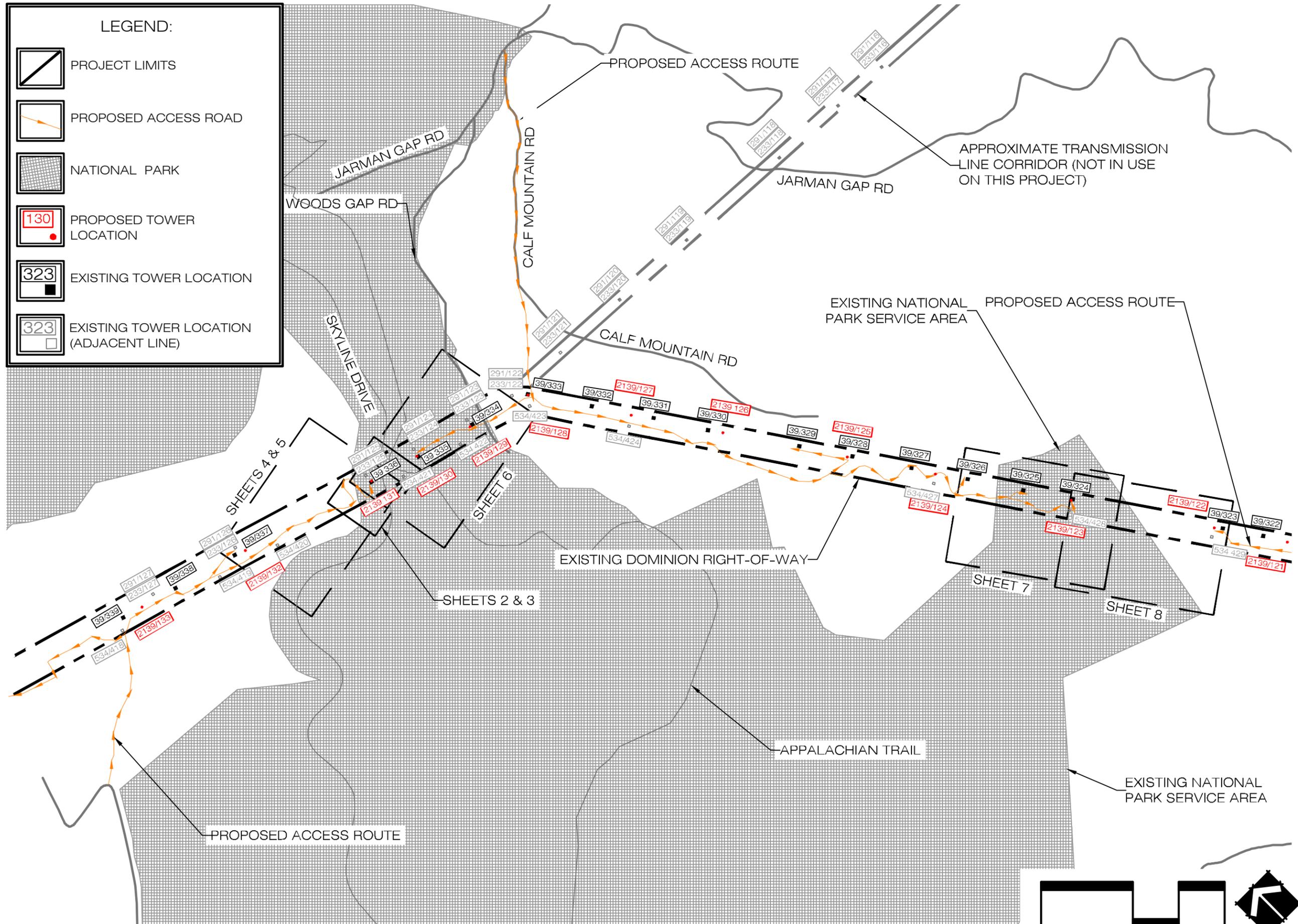
**Attachment B**

**NPS Crossing and Construction Work Area Map**

I:\4500s\4577-Dooms- Brems\Stormwater Analysis\E&S Plans\Phase 3\NPS Grading\Plan Set (8-21-13)\Master Summary and Sheets 6-8.dwg

**LEGEND:**

-  PROJECT LIMITS
-  PROPOSED ACCESS ROAD
-  NATIONAL PARK
-  PROPOSED TOWER LOCATION
-  EXISTING TOWER LOCATION
-  EXISTING TOWER LOCATION (ADJACENT LINE)



5209 Center Street  
 Williamsburg, Virginia 23188  
 (757) 220-0869

1011 Boulder Springs Drive, Suite 225  
 Richmond, Virginia 23225  
 (804) 267-3474

150 Riverside Parkway, Suite 301  
 Fredericksburg, Virginia 22406  
 (540) 785-5544

**MEG**  
 ENVIRONMENTAL  
 GROUP, INC.

Environmental Consultants

**MASTER SUMMARY  
 CONSTRUCTION ACCESS PLAN  
 DOOMS TO BREMO TRANSMISSION LINE  
 AUGUSTA & ALBEMARLE COUNTIES, VA**

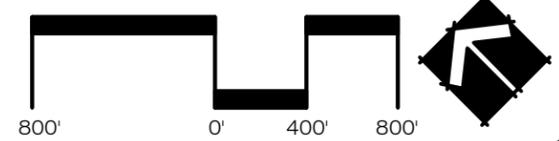
REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: JTJ  
 DATE: 8/2/13

DESIGNED BY: JTJ  
 CHECKED BY: JGM

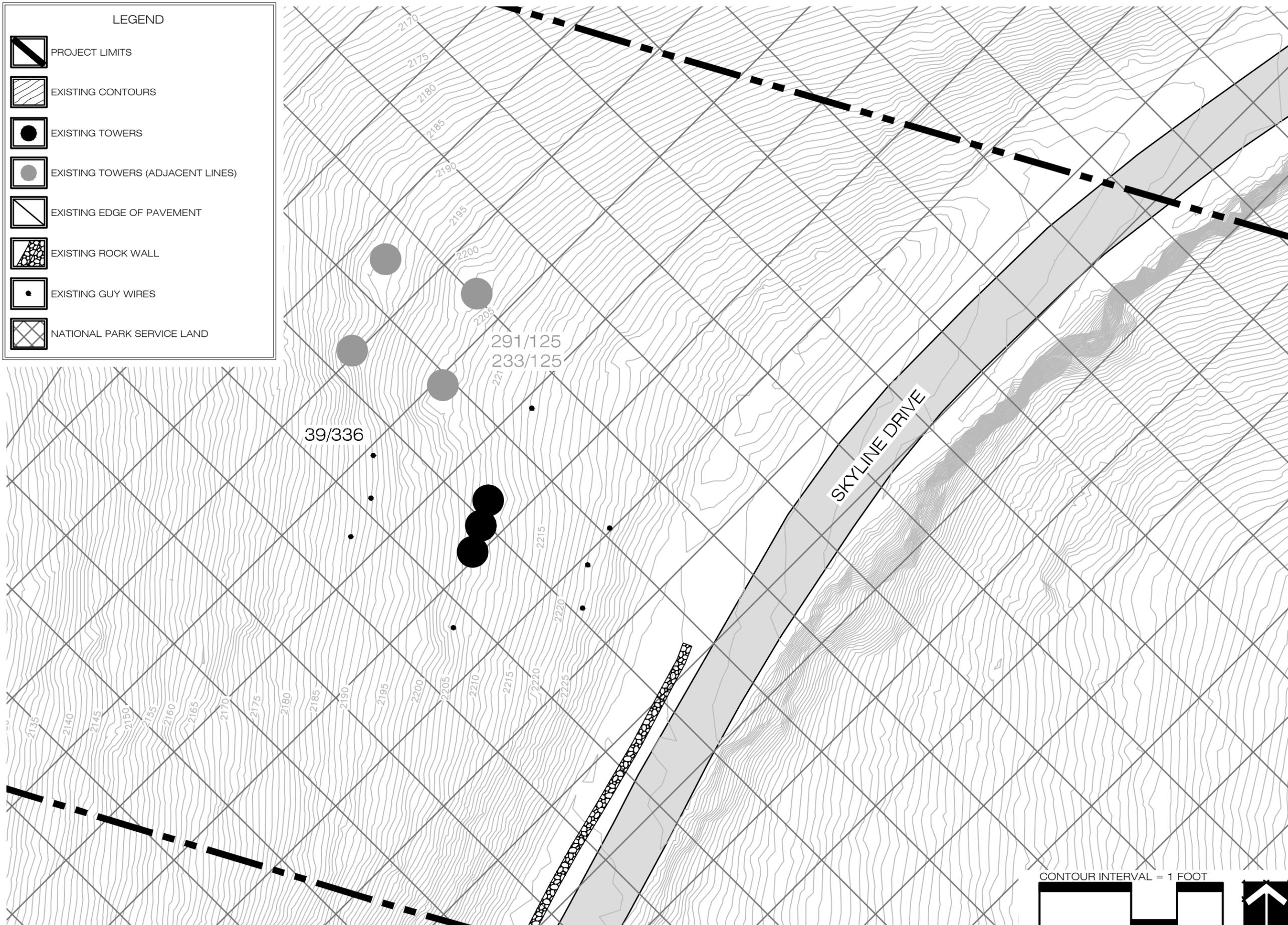
SHEET: 1  
 JOB#: 4577



C:\Users\johnstone\appdata\local\temp\AcPublish\_1056\Sheets 2-3 Update Per Dominion - New (9-13-13).dwg

**LEGEND**

-  PROJECT LIMITS
-  EXISTING CONTOURS
-  EXISTING TOWERS
-  EXISTING TOWERS (ADJACENT LINES)
-  EXISTING EDGE OF PAVEMENT
-  EXISTING ROCK WALL
-  EXISTING GUY WIRES
-  NATIONAL PARK SERVICE LAND



CONTOUR INTERVAL = 1 FOOT

30' 0' 15' 30'



5209 Center Street  
Williamsburg, Virginia 23188  
(757) 220-6869

1011 Boulder Springs Drive, Suite 225  
Richmond, Virginia 23225  
(804) 267-3474

150 Riverside Parkway, Suite 301  
Fredericksburg, Virginia 22406  
(540) 785-6544

**WEG**  
WILLIAMSBURG  
ENVIRONMENTAL  
GROUP, INC.

Environmental Consultants

**NATIONAL PARK SERVICE AREAS**  
**EXISTING CONDITIONS - STRUCTURE 39/336**  
**DOOMS TO BREMO TRANSMISSION LINE**  
**AUGUSTA & ALBEMARLE COUNTIES, VA**

REVISIONS:  
DATE:


DRAWN BY: JTJ  
DATE: 8/2/13

DESIGNED BY: JTJ/JGM  
CHECKED BY: JGM

SHEET: **2**  
JOB#: 4577

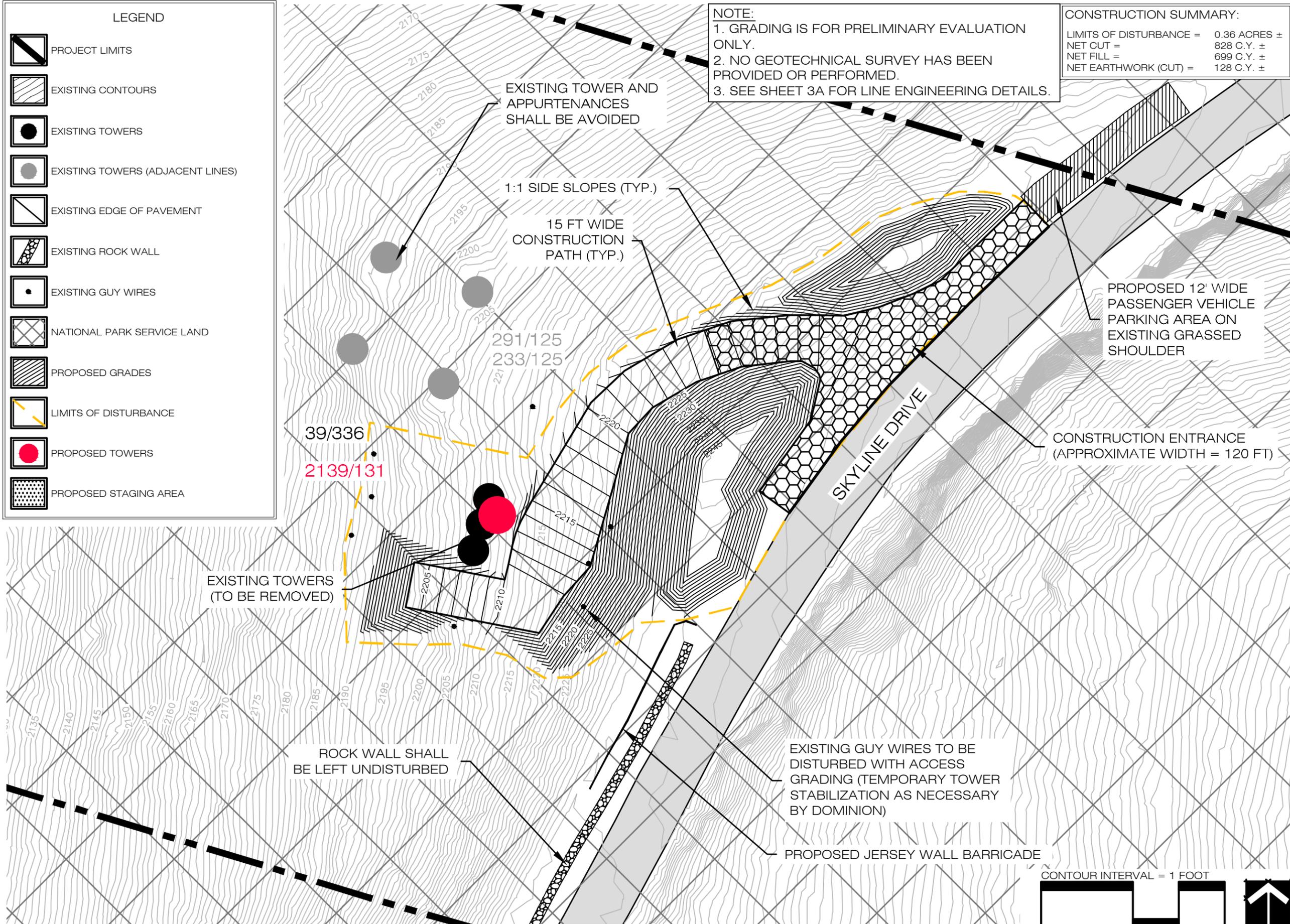
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LEGEND

-  PROJECT LIMITS
-  EXISTING CONTOURS
-  EXISTING TOWERS
-  EXISTING TOWERS (ADJACENT LINES)
-  EXISTING EDGE OF PAVEMENT
-  EXISTING ROCK WALL
-  EXISTING GUY WIRES
-  NATIONAL PARK SERVICE LAND
-  PROPOSED GRADES
-  LIMITS OF DISTURBANCE
-  PROPOSED TOWERS
-  PROPOSED STAGING AREA

**NOTE:**  
 1. GRADING IS FOR PRELIMINARY EVALUATION ONLY.  
 2. NO GEOTECHNICAL SURVEY HAS BEEN PROVIDED OR PERFORMED.  
 3. SEE SHEET 3A FOR LINE ENGINEERING DETAILS.

**CONSTRUCTION SUMMARY:**  
 LIMITS OF DISTURBANCE = 0.36 ACRES ±  
 NET CUT = 828 C.Y. ±  
 NET FILL = 699 C.Y. ±  
 NET EARTHWORK (CUT) = 128 C.Y. ±



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**WEG**  
 ENVIRONMENTAL  
 GROUP, INC.

Environmental Consultants

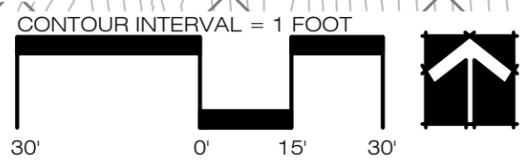
**NATIONAL PARK SERVICE AREAS**  
**CONSTRUCTION OPTION 1 - SKYLINE DRIVE**  
**DOOMS TO BREMO TRANSMISSION LINE**  
**AUGUSTA & ALBEMARLE COUNTIES, VA**

REVISIONS:  
 DATE:

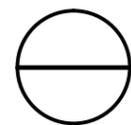
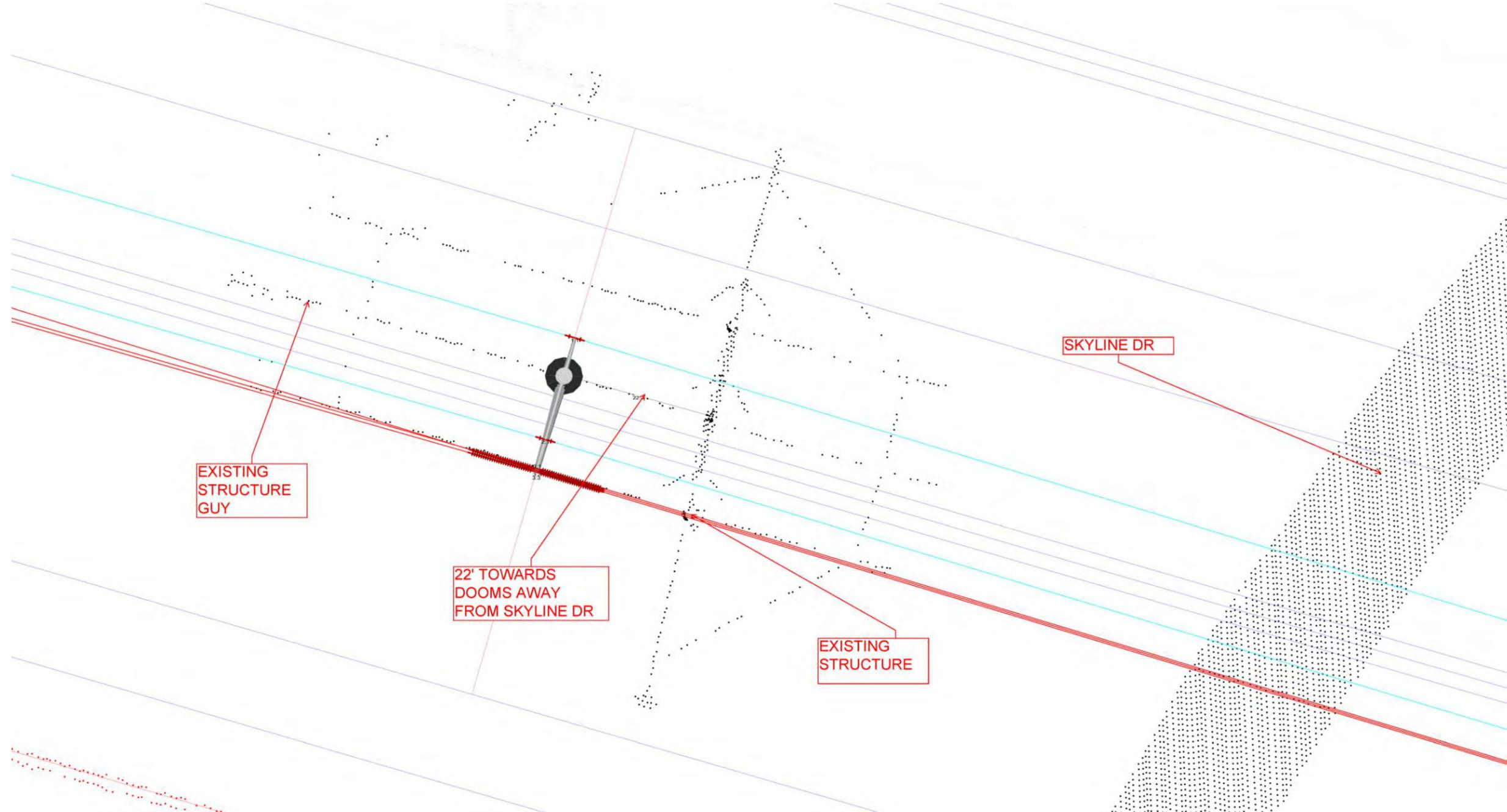

DRAWN BY: JTJ  
 DATE: 8/21/13

DESIGNED BY: JTJ/JGM  
 CHECKED BY: JGM

SHEET: **3**  
 JOB#: 4577



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**LINE ENGINEERING DETAILS**

PROVIDED BY DOMINION POWER

NTS

**NATIONAL PARK SERVICE AREAS  
CONSTRUCTION OPTION 1 - SKYLINE DRIVE  
DOOMS TO BREMO TRANSMISSION LINE  
AUGUSTA & ALBEMARLE COUNTIES, VA**

REVISIONS:	
DATE:	

DRAWN BY: N/A	DESIGNED BY: N/A
DATE: 8/21/13	CHECKED BY: N/A

SHEET: **3A**  
JOB#: 4577



5209 Center Street  
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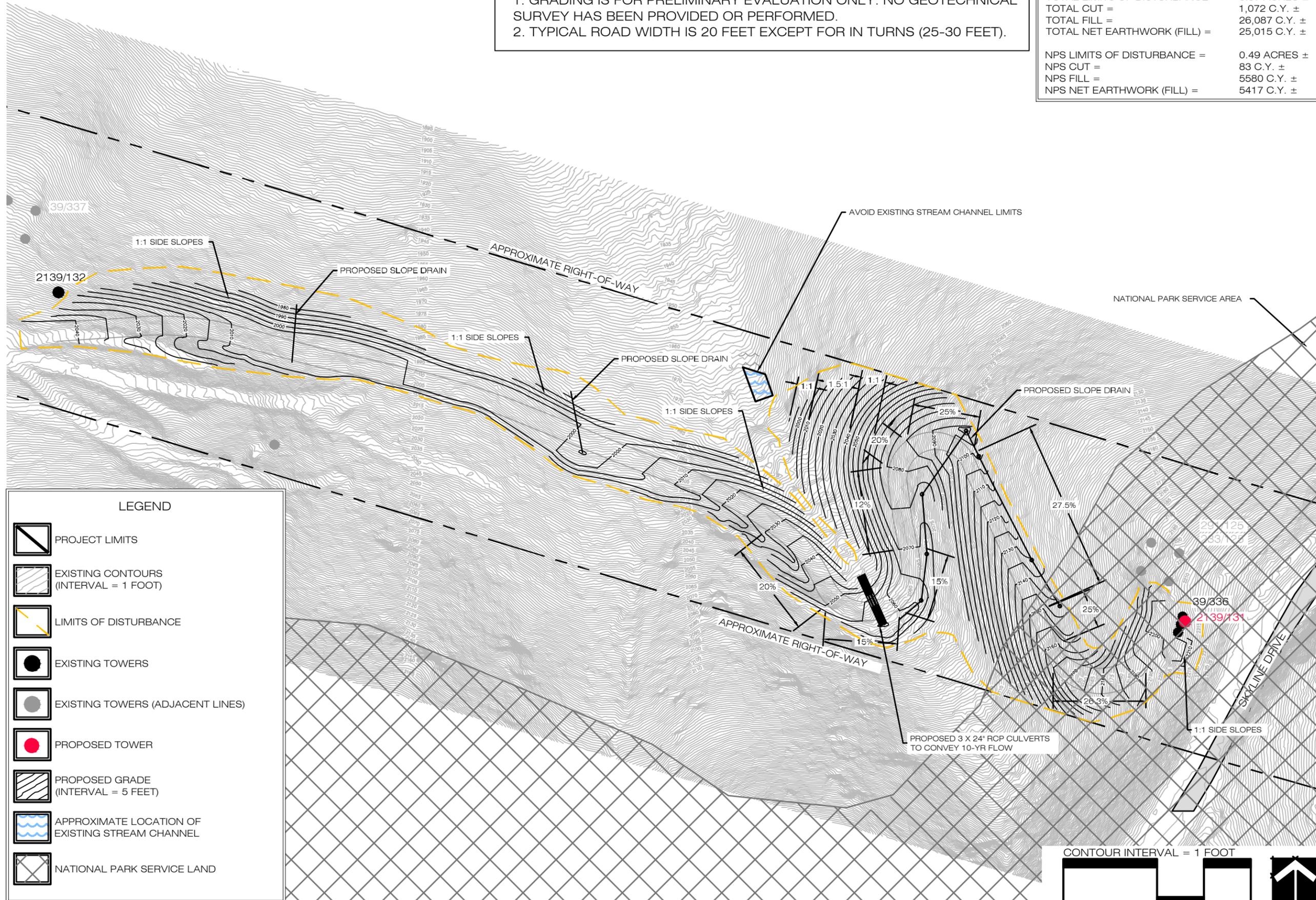
**NOTE:**

1. GRADING IS FOR PRELIMINARY EVALUATION ONLY. NO GEOTECHNICAL SURVEY HAS BEEN PROVIDED OR PERFORMED.
2. TYPICAL ROAD WIDTH IS 20 FEET EXCEPT FOR IN TURNS (25-30 FEET).

**CONSTRUCTION SUMMARY:**

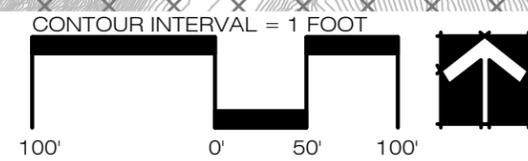
TOTAL LIMITS OF DISTURBANCE = 3.57 ACRES ±  
 TOTAL CUT = 1,072 C.Y. ±  
 TOTAL FILL = 26,087 C.Y. ±  
 TOTAL NET EARTHWORK (FILL) = 25,015 C.Y. ±

NPS LIMITS OF DISTURBANCE = 0.49 ACRES ±  
 NPS CUT = 83 C.Y. ±  
 NPS FILL = 5580 C.Y. ±  
 NPS NET EARTHWORK (FILL) = 5417 C.Y. ±



**LEGEND**

- PROJECT LIMITS
- EXISTING CONTOURS (INTERVAL = 1 FOOT)
- LIMITS OF DISTURBANCE
- EXISTING TOWERS
- EXISTING TOWERS (ADJACENT LINES)
- PROPOSED TOWER
- PROPOSED GRADE (INTERVAL = 5 FEET)
- APPROXIMATE LOCATION OF EXISTING STREAM CHANNEL
- NATIONAL PARK SERVICE LAND



**WMBG**  
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**NATIONAL PARK SERVICE AREAS  
 CONSTRUCTION OPTION 2 - WESTERN ACCESS  
 DOOMS TO BREMO TRANSMISSION LINE  
 AUGUSTA & ALBEMARLE COUNTIES, VA**

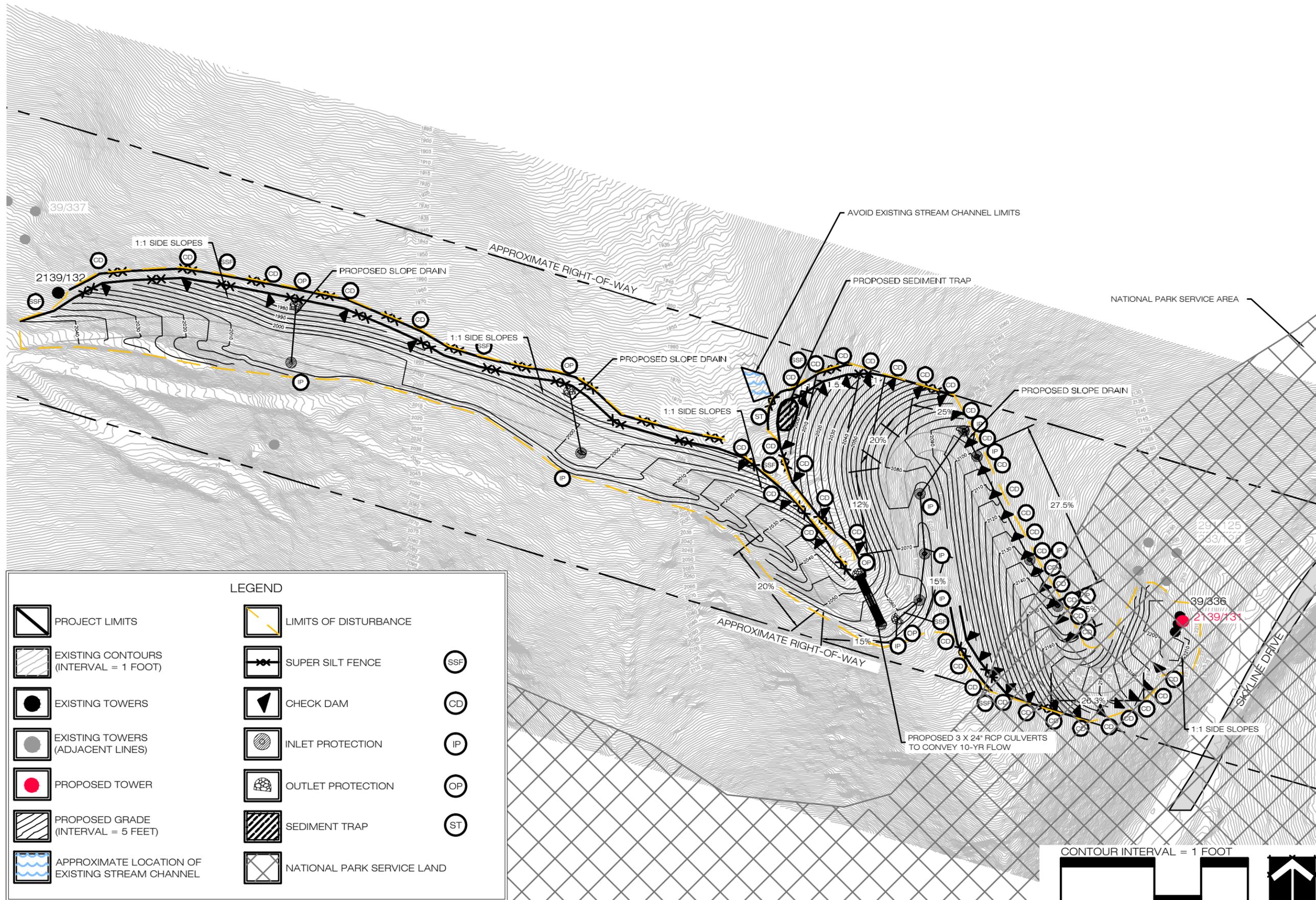
REVISIONS:

NO.	DATE	DESCRIPTION

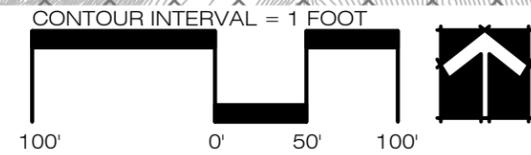
DRAWN BY: JTJ  
 DESIGNED BY: JTJ/JGM  
 DATE: 12/11/13  
 CHECKED BY: JGM

SHEET: **4**  
 JOB#: 4577

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LEGEND	
	PROJECT LIMITS
	EXISTING CONTOURS (INTERVAL = 1 FOOT)
	EXISTING TOWERS
	EXISTING TOWERS (ADJACENT LINES)
	PROPOSED TOWER
	PROPOSED GRADE (INTERVAL = 5 FEET)
	APPROXIMATE LOCATION OF EXISTING STREAM CHANNEL
	LIMITS OF DISTURBANCE
	SUPER SILT FENCE
	CHECK DAM
	INLET PROTECTION
	OUTLET PROTECTION
	SEDIMENT TRAP
	NATIONAL PARK SERVICE LAND
	SSF
	CD
	IP
	OP
	ST



**MEG**  
ENVIRONMENTAL  
GROUP, INC.

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Richmond, Virginia 23225  
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(540) 785-5544

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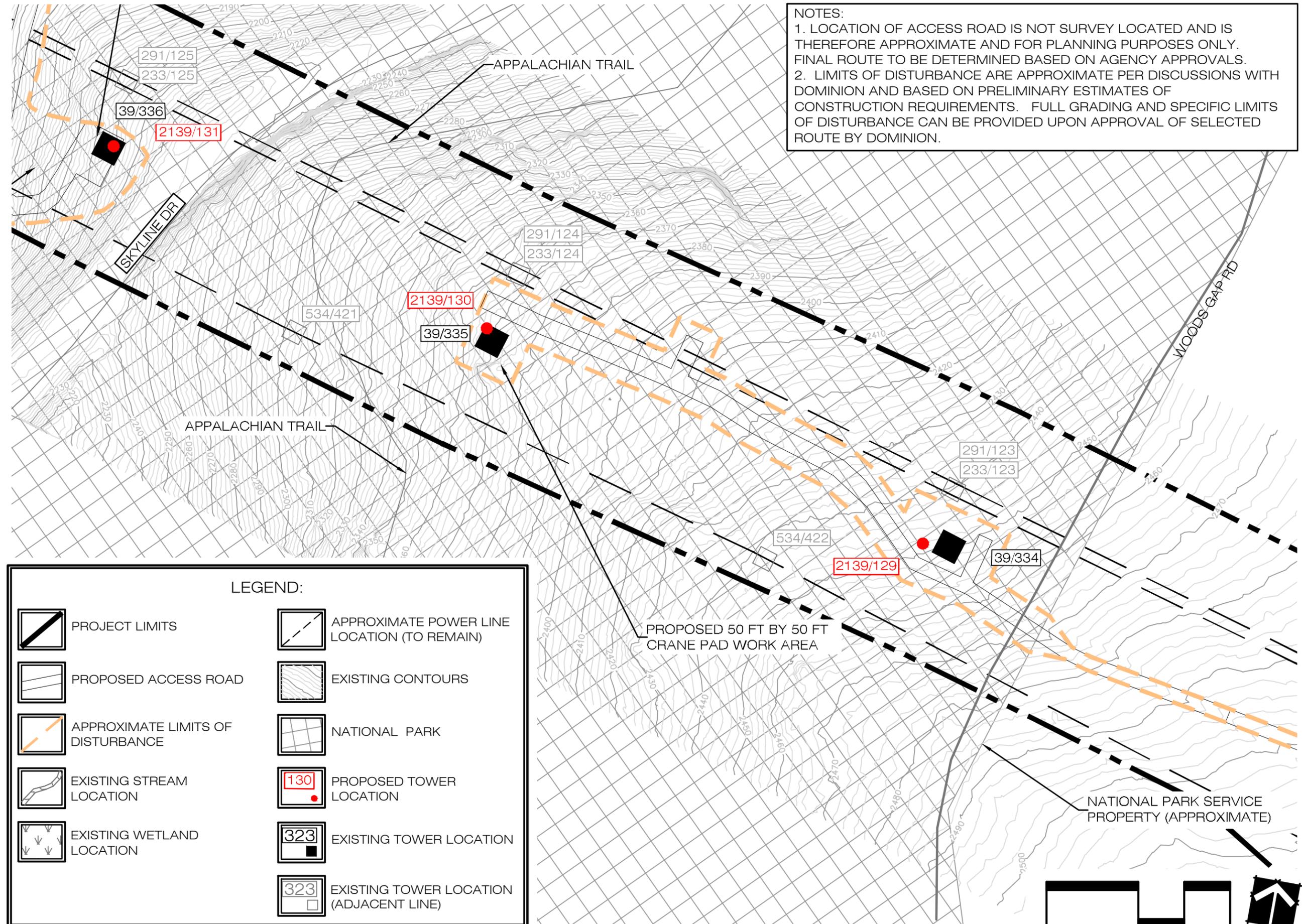
**NATIONAL PARK SERVICE AREAS**  
**PRELIMINARY E&S CONSTRUCTION - WESTERN ACCESS**  
**DOOMS TO BREMO TRANSMISSION LINE**  
**AUGUSTA & ALBEMARLE COUNTIES, VA**

REVISIONS:	
DATE:	

DRAWN BY: JTJ  
 DESIGNED BY: JTJ/JGM  
 DATE: 8/21/13  
 CHECKED BY: JGM

SHEET: **5**  
 JOB#: 4577

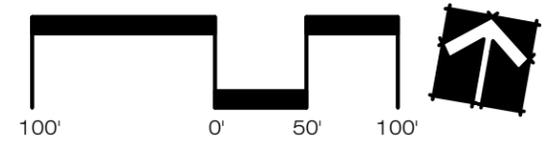
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**NOTES:**  
 1. LOCATION OF ACCESS ROAD IS NOT SURVEY LOCATED AND IS THEREFORE APPROXIMATE AND FOR PLANNING PURPOSES ONLY. FINAL ROUTE TO BE DETERMINED BASED ON AGENCY APPROVALS.  
 2. LIMITS OF DISTURBANCE ARE APPROXIMATE PER DISCUSSIONS WITH DOMINION AND BASED ON PRELIMINARY ESTIMATES OF CONSTRUCTION REQUIREMENTS. FULL GRADING AND SPECIFIC LIMITS OF DISTURBANCE CAN BE PROVIDED UPON APPROVAL OF SELECTED ROUTE BY DOMINION.

**LEGEND:**

	PROJECT LIMITS		APPROXIMATE POWER LINE LOCATION (TO REMAIN)
	PROPOSED ACCESS ROAD		EXISTING CONTOURS
	APPROXIMATE LIMITS OF DISTURBANCE		NATIONAL PARK
	EXISTING STREAM LOCATION		PROPOSED TOWER LOCATION
	EXISTING WETLAND LOCATION		EXISTING TOWER LOCATION
			EXISTING TOWER LOCATION (ADJACENT LINE)



**MEG**  
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**NATIONAL PARK SERVICE AREAS  
 CONSTRUCTION ACCESS PLAN  
 DOOMS TO BREMO TRANSMISSION LINE  
 AUGUSTA & ALBEMARLE COUNTIES, VA**

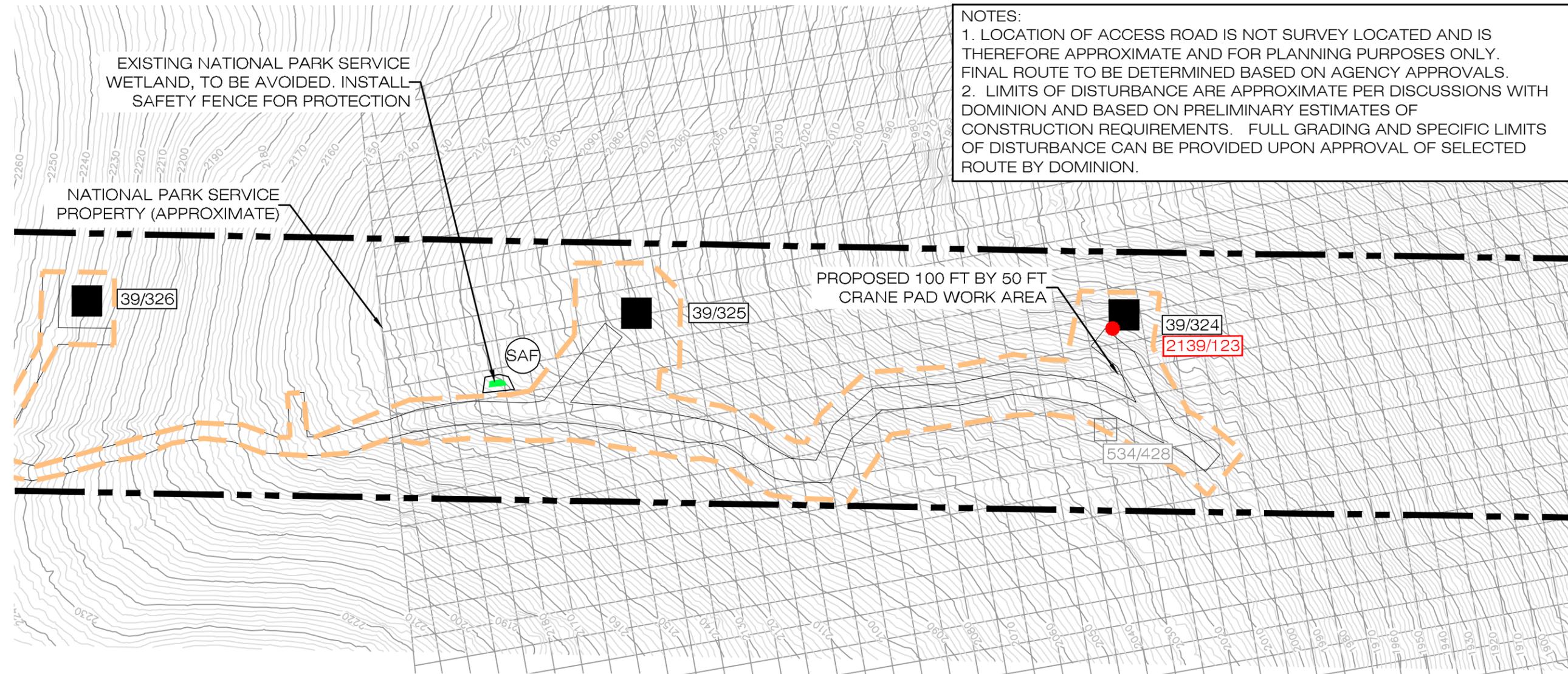
REVISIONS:  
 DATE:


DRAWN BY: JTJ  
 DATE: 8/21/13

DESIGNED BY: JTJ  
 CHECKED BY: JGM

SHEET: **6**  
 JOB#: 4577

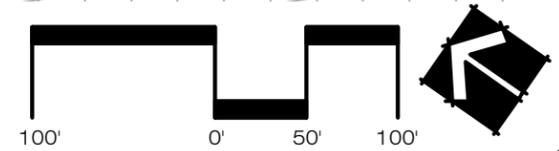
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**LEGEND:**

	PROJECT LIMITS		APPROXIMATE POWER LINE LOCATION (TO REMAIN)
	PROPOSED ACCESS ROAD		EXISTING CONTOURS
	APPROXIMATE LIMITS OF DISTURBANCE		NATIONAL PARK
	EXISTING STREAM LOCATION		EXISTING TOWER LOCATION
	EXISTING WETLAND LOCATION		EXISTING TOWER LOCATION (ADJACENT LINE)
	SAFETY FENCE		PROPOSED TOWER LOCATION
	SAF		



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 (540) 785-5544

**WEG**  
 WILLIAMSBURG  
 ENVIRONMENTAL  
 GROUP, INC.

Environmental Consultants

**NATIONAL PARK SERVICE AREAS  
 CONSTRUCTION ACCESS PLAN  
 DOOMS TO BREMO TRANSMISSION LINE  
 AUGUSTA & ALBEMARLE COUNTIES, VA**

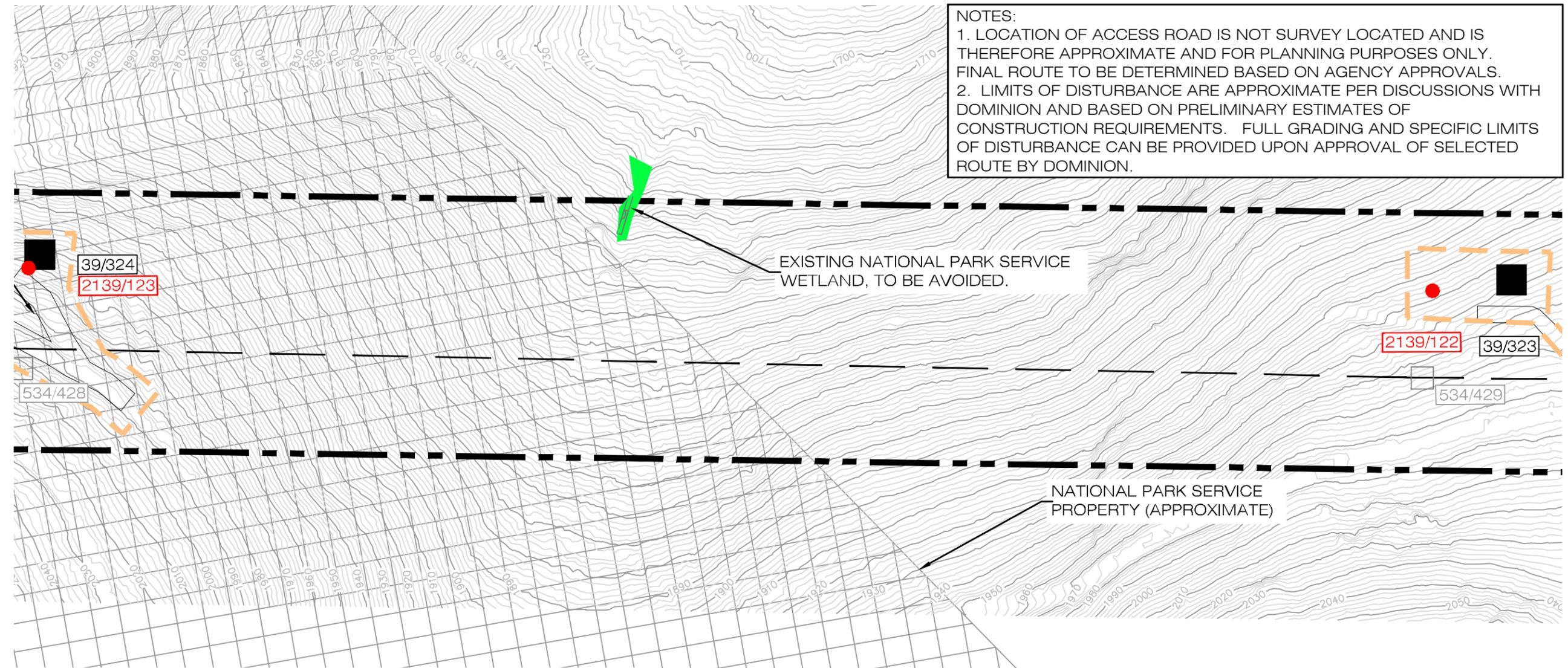
REVISIONS:  
 DATE:


DRAWN BY: JTJ  
 DATE: 8/21/13

DESIGNED BY: JTJ  
 CHECKED BY: JGM

SHEET: 7  
 JOB#: 4577

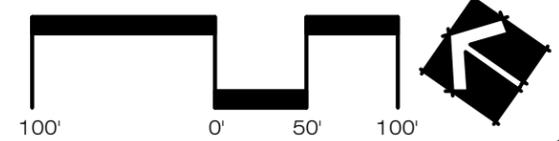
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**NOTES:**  
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**LEGEND:**

	PROJECT LIMITS		APPROXIMATE POWER LINE LOCATION (TO REMAIN)
	PROPOSED ACCESS ROAD		EXISTING CONTOURS
	APPROXIMATE LIMITS OF DISTURBANCE		NATIONAL PARK
	EXISTING STREAM LOCATION		EXISTING TOWER LOCATION
	EXISTING WETLAND LOCATION		EXISTING TOWER LOCATION (ADJACENT LINE)
			PROPOSED TOWER LOCATION



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**WEG**  
 WILLIAMSBURG  
 ENVIRONMENTAL  
 GROUP, INC.

Environmental Consultants

**NATIONAL PARK SERVICE AREAS  
 CONSTRUCTION ACCESS PLAN  
 DOOMS TO BREMO TRANSMISSION LINE  
 AUGUSTA & ALBEMARLE COUNTIES, VA**

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: JTJ  
 DESIGNED BY: JTJ/JGM  
 DATE: 8/21/13  
 CHECKED BY: JGM

SHEET: 8  
 JOB#: 4577

**Dooms-Bremo Rebuild Project**

**Attachment C**

**(Real Estate Documents & Permits)**



100 Row

THIS DEED, Made this 8th day of March 1924 by and between  
E. Gray Barnhart, Plaintiff and  
Nat. C. Barnhart, Defendant  
and, Nat. C. Barnhart, wife (or unmarried), party of the first part hereinafter called Owner, and Virginia-Western Power Company, party of the second part hereinafter called Company,

WITNESSETH:

That for and in consideration of \$ 1.00 cash in hand paid, the receipt of which is hereby acknowledged, the said OWNER doth hereby grant, bargain, sell and convey to the COMPANY, its successors and assigns an easement and right-of-way upon which to erect poles, towers and other supports, to guy, brace, re-locate, and maintain the same, and to string, stretch, suspend and construct thereon wires, cables and other fixtures and appliances, including telephone wires, necessary or convenient for the transmission of electric current, and the right to transmit electric current thereon across and over a certain tract of land belonging to said OWNER, located in Augusta County, Virginia, adjoining the lands of Fiville and Wright and located

and containing approximately 24.0 acres; together with the right of ingress and egress to and from said right-of-way, and the right to cut and trim from the lands of the OWNER such limbs, underbrush, trees and other growth, as may interfere with, or be likely to interfere with the foregoing uses.

The approximate route for said right-of-way, and the conditions of this deed are as follows: Beginning at a point in the line between Fiville, Wright and Barnhart and running thence in a Northwesterly direction about 200 feet to a point in the line between said Barnhart and Dr. Wright. It is further agreed that the Company shall have the right to clear a strip one hundred feet wide through the timber on this property for which the Company shall pay the owner the sum of seven hundred and fifty (\$750.00) dollars. It is further agreed that the Company shall place and maintain at least two poles or convenient places in line of poles of said line to give the Company support and access to their towers and poles.

Whenever the COMPANY shall erect upon said right-of-way any poles, towers or other supports, it shall pay the OWNER therefor according to the following schedule: For each unbraced or unguyed pole, \$ 1.00; for each guyed or braced pole, \$ 1.00; for each unguyed or unbraced tower, \$ 5.00; for each guyed or braced tower, \$ 10.00; for each pole or structure used for telephone wires only, \$ 2.00; but no payment is to be made if any tower or pole, re-located or re-placed by a similar tower or pole, and the tying of one tower or pole to another tower or pole in the line shall not be considered as guying or bracing. The COMPANY shall also pay the OWNER for any damages done to crops, fences or buildings of the OWNER during the construction or repair of said line, and in the event of their inability to agree upon the amount of such damages, the same shall be arbitrated in the usual manner.

The COMPANY may inspect, maintain, patrol and keep in repair all poles, towers, wires, fixtures, and appliances connected therewith on said land, and may remove the same from said premises whenever it may elect to do so.

The party of the first part covenant that they have the right to convey said right-of-way and that they will warrant and defend the same from the claims of all persons whomsoever.

Witness the following signatures and seals:

E. Gray Barnhart (SEAL)  
Nat. C. Barnhart (SEAL)  
Nat. C. Barnhart (SEAL)

VIRGINIA, County of Washington To-wit:

I, Mary E. Miller, a Notary Public in and for the County and State aforesaid do hereby certify that Nat. C. Barnhart, whose name is signed to the above writing, dated the 8th day of March 1924, has acknowledged the same before me in my said county.

My commission will expire February 5, 1927

Given under my hand this 8th day of March 1924



Mary E. Miller  
Notary Public

(This Form of Acknowledgment to be used for Rights of Way in ..... Virginia.)

STATE OF ..... VIRGINIA

COUNTY OF Augusta

TO-WIT:-

I, Wm. A. Pratt, a Notary Public in and for the County and State aforesaid, do certify that J. Gray Barnhart and O. P. Barnhart the wife of the said J. Gray Barnhart, whose names are signed to the writing hereto annexed bearing date on the 8th day of March, 1924, have this day acknowledged the same before me in my said county.

I further certify that my commission as Notary Public will expire on the 26th day of December, 1927.

Given under my hand this 11th day of April, 1924.

Notary Public in and for Augusta County

311 3 1924

Booked at 11/11/24

Page 150

Date 11/11/24

3448

Section 53

DEED BOOK No. 111

Page 110

11/11/24

11/11/24

(This Form of Acknowledgment to be used for Rights of Way in ..... Virginia)

STATE OF ..... VIRGINIA

COUNTY OF .....

TO-WIT:-

VIRGINIA--In the Clerk's Office of the Circuit Court for Augusta County,

The foregoing Deed

of July 8th - 1924  
from J. Gray Barnhart et al  
to  
Virginia Western Power Co.

was this day presented in the office aforesaid, the State Tax of \$ 96.00 being paid thereon, it is with the certificate of acknowledgment annexed, admitted to record. THE SAME BEING PAID BY THE SAME

Teste:

Nancy Bennett, Clerk.

12-9  
9018

CERTIFICATE OF TITLE

To a tract of land, containing 340 acres, more or less, lying in South River District, Augusta County, Va., on west side of the Blue Ridge Mountain, about four miles from Basic City, and about four miles east of Dooms Station on N. & W. R. R., on the south side of Jarman's Gap road, now owned by G. Gray Barnhart and Nat. G. Barnhart.

Examination made for Virginia-Western Power Company, through J. M. Perry, Esq., its attorney, on May 10th, 1924:

This is the same tract of land which was conveyed to G. Gray Barnhart and Nat. G. Barnhart by N. L. Kolner and J. Lee Kolner, Executors of the last will and testament of Henry Kolner, decd., by deed of date February 28th, 1917, duly recorded in the County Clerk's office of Augusta County, in D.B. 187, page 158.

The will of Henry Kolner, decd., which bears date on December 7th, 1898, and was duly probated in Augusta County Court, on April 2nd, 1898, recorded in W.B. 58, page 141, provides that the testator's Mountain Grazing Farm, (which is the tract of land above referred to), shall remain intact for use and benefit of his widow, and James M. Kolner and Kate H. Kolner, during the life of the widow, Jane C. Kolner; and that the same should be sold on the death of said widow, who died November 25th, 1916.

The will nominates N. L. Kolner and J. Lee Kolner as Executors, and the qualified as such at the same time, and before the same Court, that the said will was probated.

The deed above referred to vests fee simple title to said tract of land in the said Barnharts, the grantees therein.

This tract of land is subject to a deed of trust, recorded in D.B. 206, page 495, executed by G. Gray Barnhart, and G. Palmer Barnhart, his wife, and Nat. G. Barnhart, to H. H. Kerr, Trustee, dated March 8th, 1922, in which two bonds executed by said Barnharts are secured, one for \$1500.00, due two years after date, and the other for \$2000.00, due three years after date, both dated March 8th, 1922, and both payable to J. N. McFarland, Treasurer of Augusta County. This lien is not released.

This is the only recorded lien I find binding this property.

OPINION:

In my opinion C. Gray Barnhart, and Ola Palmer Barnhart, his wife, and Nat G. Barnhart, can convey good title to the said tract of 340 acres of land above referred to, clear and free of encumbrances save and except only the deed of trust lien above referred to.

In accordance with my invariable custom, however, this opinion must be accepted without financial responsibility on my part.

May 10th. 1924.

*J. B. Kennedy, Atty.*

John 21114  
(Rev. Dec. 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

This permit consists

of 3 pages

SPECIAL USE PERMIT

PERMIT NO. 14-10-137-62  
EXPIRES 5/31/58  
PREVIOUS PERMIT NO. 899 page 3

SHENANDOAH NATIONAL PARK

Virginia Electric and Power Co., of Richmond, Virginia, is hereby authorized during the period from May 19, 1957, to May 11, 1958, to use the following described land in the above-named area: approximately 540 feet of land within section 2-A of the Blue Ridge Parkway (section 2-A is administered by Shenandoah National Park) in the South River District of Augusta County, paralleling on the south side, an existing electric transmission tower line which crosses the Parkway in the vicinity of station 30+50. The existing and proposed lines are shown on the attached Plot No. 145

for the purpose of constructing and maintaining a 110 KV power transmission line extending westwardly from its Bryans Power Station on the James River in Fluvanna County to its Dooms Substation north of Waynesboro in Augusta County. The purpose of the line is to reinforce electrical service in the Shenandoah Valley Area.

subject to the conditions on the reverse hereof and attached pages and to the payment to the Government of the United States of the sum of Five and 00/100 Dollars (\$ 5.00-00-), in advance (Monthly, semiannually, etc.), or as follows: Annually

payment to be made to the Superintendent by Express or Postal Money Order, Certified Check, or Draft, payable to the National Park Service, or Cash.

Issued at Luray, Virginia, this 11th day of May, 1957.  
Francis D. Malone, Assistant Superintendent

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and provisions, expressed or implied, therein.

NAME: Virginia Electric and Power Company  
By: Miles Cary  
Title: Vice President  
Attest: Ralph Kilday - Secretary

APPROVED: (If required by higher authority) NAME: DATE:  
NAME: TITLE: DATE:  
\*Sign name or names as written in body of permit for corporation; permittee should sign as "members of firm" for corporation, the officer authorized to execute contracts, etc., should sign, with title, the authenticity of each signature being attested by the Secretary, with corporate seal, in lieu of witnesses.  
(This copy for the Region Office Use) Permittee

Bremo - Dooms - Staunton  
COR 0048

## CONDITIONS OF THIS PERMIT

**1. Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the area.

**2. Definition.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent, or the representative of the Director.

**3. Rights of the Director.**—Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails as well as of those already existing. If it is necessary to exercise such right, every effort will be made by the National Park Service to refrain from unduly interfering or preventing use of the land by the permittee for the purpose intended under this permit.

**4. Nondiscrimination.**—If use of the land covered by the permit will involve the employment by the permittee of a person or persons, the permittee agrees to observe the following nondiscrimination provisions in connection with the use of which the lands covered by this permit may be devoted:

In connection with the performance of work under this contract, the contractor agrees not to discriminate against any employee or applicant for employment, because of race, religion, color, or national origin. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rate of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the nondiscrimination clause.

The contractor further agrees to insert the foregoing provisions in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials. (Executive Order 10957, September 3, 1954)

**5. Damages.**—The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

**6. Construction.**—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all appurtenances thereto shall be kept in a safe, sanitary, and sightly condition.

**7. Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him, and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

**8. Water Rights.**—The United States reserves the right to perfect title to all rights for water which may be developed or used in connection with this permit and shall furnish water to the permittee, when available, at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same at his own expense, subject to such special requirements as may be prescribed.

**9. Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

**10. Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

**11. Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

**12. Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

**13. Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefit to arise therefrom. *Provided however:* That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

**14. Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

**15. Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

SPECIAL USE PERMIT CONTINUATION SHEET

SHENANDOAH NATIONAL PARK

PERMIT NO.  
11-10-137- 62

PAGE NO.  
3

16. The permittee may clear up to 50 feet from center line of the proposed line, within the boundary of the Blue Ridge Parkway, under the supervision of the National Park Service. Such existing plant material, up to 15 feet in height, as considered beneficial to the National Park Service, shall be left undisturbed and protected from damage during construction and maintenance of the new line and tower.

17. The permittee may also cut any tree within the boundary of the Blue Ridge Parkway more than 50 feet from center line of the proposed line which in falling or being felled could come within ten feet of any conductor, any such cutting, however, to be done only under the supervision of the National Park Service.

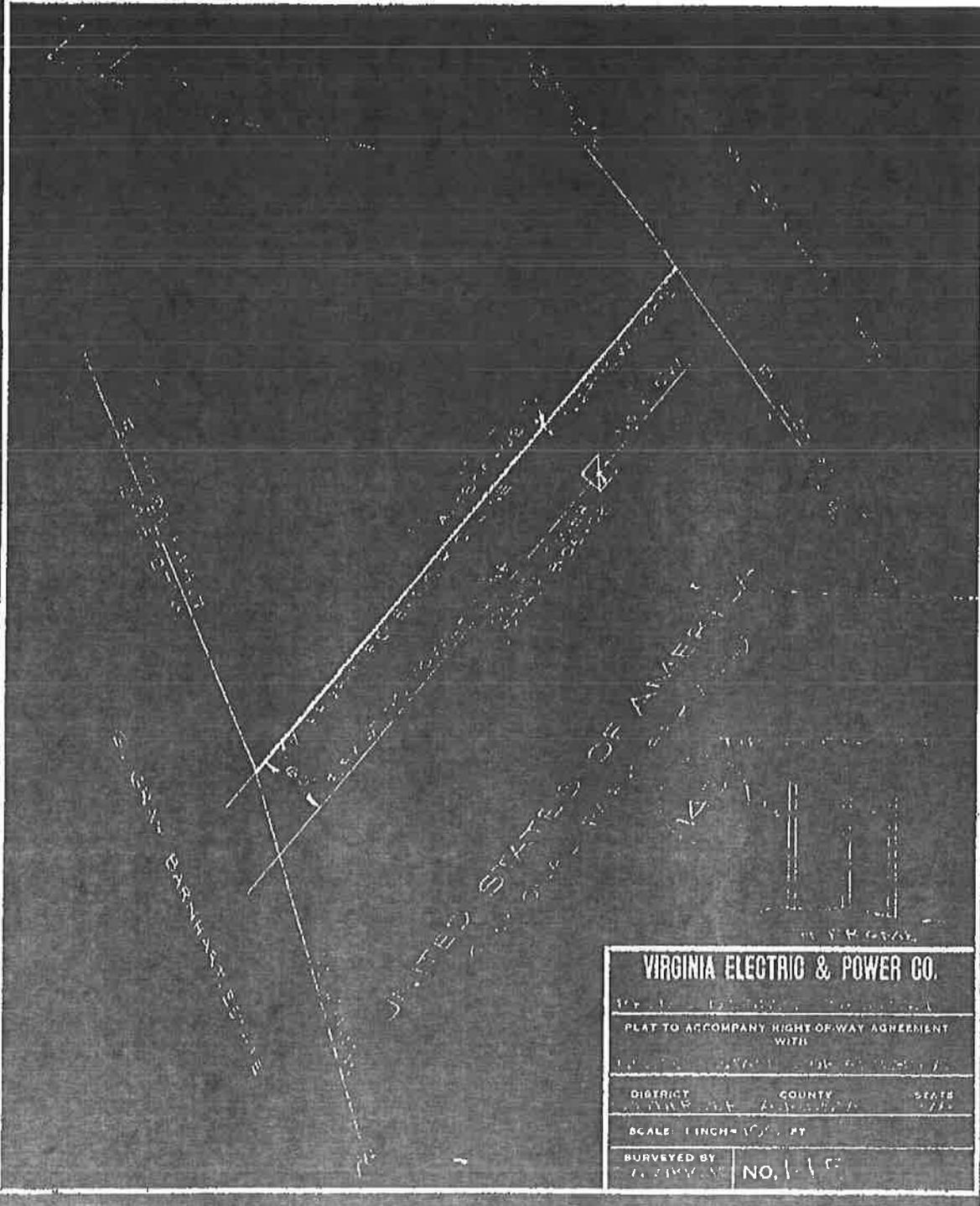
18. The permittee shall replace such suitable plant material, not to exceed 50 in total number of individual plants about 3 feet in height, as the National Park Service may consider necessary to provide a suitable screen between the Parkway and right of way clearing on the west side of the Parkway. All planting shall be done at no cost to the Government.

19. All timber felled within the Parkway Boundary which is 2 inches in diameter and above, shall be cut into cord wood length and stock piled at a point designated by the Superintendent or his representative, to be used by the National Park Service.

20. This permit shall be automatically renewable annually for further periods of one year each, but not exceeding in all a total term of five years, terminating May 11, 1962, provided the conditions are adhered to and upon the payment in advance of \$5.00 each year.

21. The permittee shall exercise care in constructing and maintaining this facility across Government lands and assumes all liability of injury or damage to any person or property.

100  
100  
100



**VIRGINIA ELECTRIC & POWER CO.**

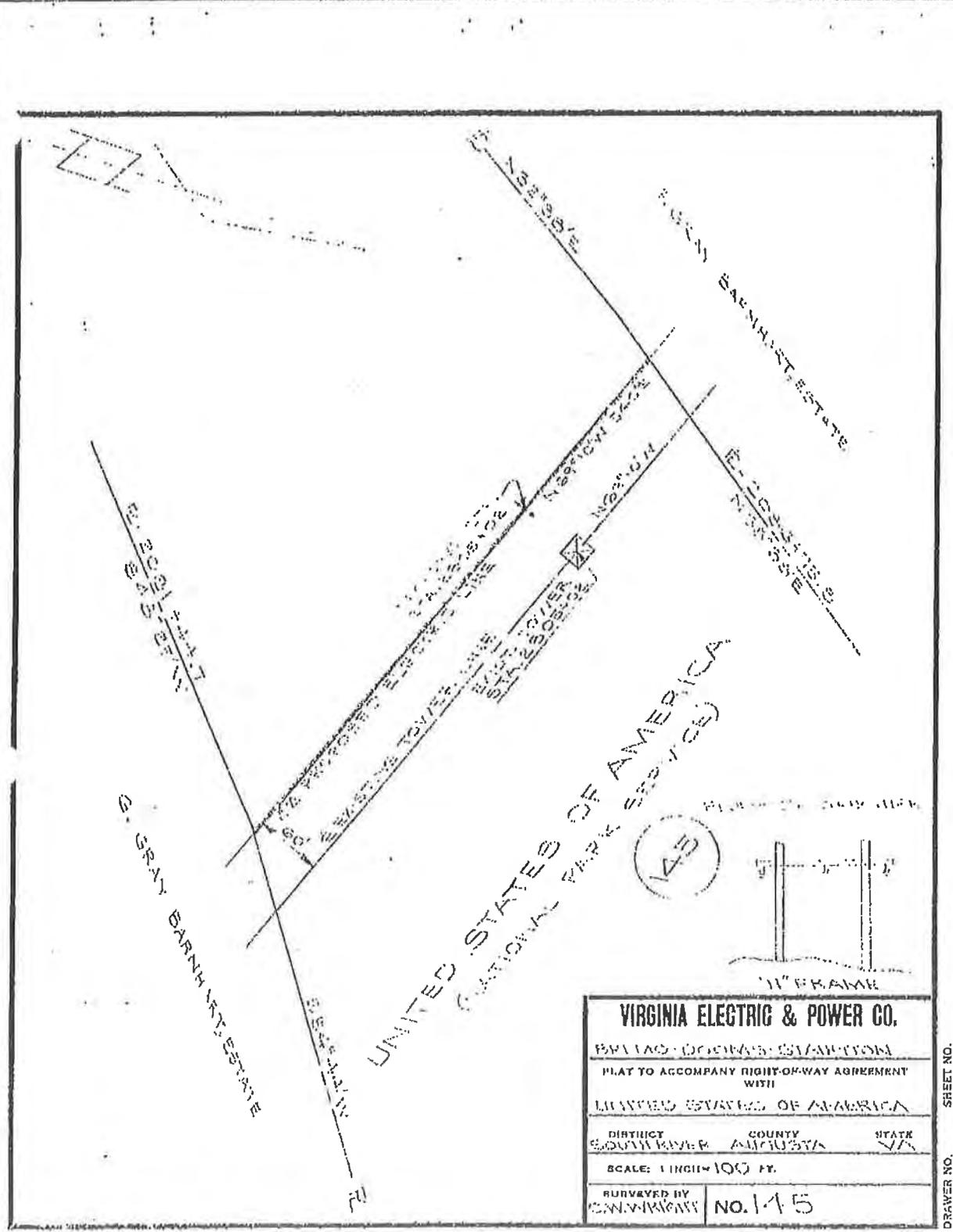
PLAT TO ACCOMPANY RIGHT-OF-WAY AGREEMENT WITH

DISTRICT COUNTY SEATS

SCALE: 1 INCH = 100 FT.

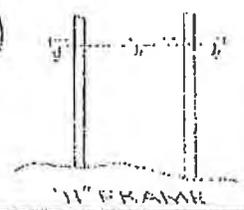
SURVEYED BY

NO. 1-100



UNITED STATES OF AMERICA  
 NATIONAL PARK SERVICE

145



<b>VIRGINIA ELECTRIC &amp; POWER CO.</b>		
PULASKI-DODD'S STATION		
PLAN TO ACCOMPANY RIGHT-OF-WAY AGREEMENT WITH		
UNITED STATES OF AMERICA		
DISTRICT	COUNTY	STATE
SOUTH RIVER	AUGUSTA	VA
SCALE: 1 INCH = 100 FT.		
SURVEYED BY C. W. WILSON		NO. 145

DRAWER NO. SHEET NO.



October 29, 1973  
Your File L30 (0014)

Mr. Robert R. Jacobsen, Superintendent  
United States Department of the Interior  
National Park Service  
Shenandoah National Park  
Luray, Virginia 22835

Dear Mr. Jacobsen:

This is in reference to your letter of October 18, 1973, forwarding to us Special Use Permit No. CX484040014 as a renewal of Special Use Permit No. 1:134:0247, which expires October 31, 1973 and which authorized Virginia Electric and Power Company to maintain a 115KV power transmission line and a 500KV power transmission line across Park property at Jarman's Gap in the South River District of Augusta County, Virginia.

We have reviewed renewal Special Use Permit No. CX484040014 and request that several changes be made:

1. The voltage of the 115KV power transmission line has been converted to 230KV, authorized by Addendum No. 1, approved September 10, 1971, copy attached; therefore, the references on page 1 to the "existing 115KV power transmission line" should be changed to read "existing 230KV power transmission lines".
2. Condition 21, in which Permittee agrees to indemnify and save harmless the Shenandoah National Park from any loss to it resulting from the exercise by the Permittee and its employees of the privileges granted herein, appears to make Virginia Electric and Power Company liable for any loss or damage. Virginia Electric and Power Company is agreeable to indemnify and save harmless the Shenandoah National Park from any loss or damage caused by negligence of the Company or its employees, but we feel that any loss or damage caused by the negligence of the Park or others should be their responsibility. With this in mind, we request that the words "resulting from the exercise" in Condition 21 be altered to read "resulting from negligence in the exercise".

Mr. Robert R. Jacobsen

2

We are returning Special Use Permit No. CX484040014 to you and request that the changes be made if you are in agreement.

Thank you for your cooperation in this matter.

Yours very truly,



Daniel F. Farley  
Manager - Real Estate

bc: Mr. C. A. Sherry

RCB:jbw



UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

This permit consists

of \_\_\_\_\_

SPECIAL USE PERMIT

PERMIT NO. GX484040014	EXPIR. 10/31
PREVIOUS PERMIT NO. 1:134:0247	

Shenandoah National Park

(Area)

Va. Electric & Power Company, of Richmond, Virginia 23209 is hereby authorized during the period from November 1, 1973, to October 31, 1983, to use the following-described land in the above-named area:

A right-of-way near Jarman's Gap within Section 1-A, 200 feet in width and approximately 515 feet in length whereon is situated an existing 115 KV transmission line crossing the Skyline Drive in the vicinity of Station 31 + 10, and whereon is situated an existing 500 KV transmission line crossing the Skyline Drive in the vicinity of Station 32 + 05; both lines and the right-of-way are shown on the attached drawings.

for the purpose of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvanna County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm Generating Station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia, as shown on attached Drawing No. 1-233-1-1.

subject to the conditions on the reverse hereof and attached pages and to the payment to the Government of the United States of the sum of Twenty-five and 00/100 Dollars (\$25.00) in advance annually (Monthly, semiannually, etc.), or as follows:

payment to be made to the Superintendent by Express or Postal Money Order, Certified Check, or Draft payable to the National Park Service, or Cash.

Issued at Luray, Virginia this \_\_\_\_\_ day of \_\_\_\_\_ 1973.

(City) \_\_\_\_\_ Superintendent

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and reservations, expressed or implied, therein.

TWO WITNESSES TO SIGNATURES		* PERMITTEE (Signature)	
NAME		NAME	
ADDRESS		ADDRESS	
NAME		NAME	
ADDRESS		ADDRESS	

APPROVED: (If approval is required by higher authority)

NAME	CORREL	DATE
------	--------	------

1. **Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the area.

2. **Definition.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent as the representative of the Director.

3. **Rights of the Director.**—Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails as well as of those already existing. If it is necessary to exercise such right, every effort will be made by the National Park Service to refrain from unduly interfering or preventing use of the land by the permittee for the purpose intended under this permit.

4. **Nondiscrimination.**—See attachment A.

5. **Damages.**—The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

6. **Construction.**—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all appurtenances thereto shall be kept in a safe, sanitary, and sightly condition.

7. **Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as is determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him, and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the

United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

8. **Water rights.**—The United States reserves the rights to perfect title to all rights for water which may be developed or used in connection with this permit and shall furnish water to the permittee, when available, at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same, at his own expense, subject to such special requirements as may be prescribed.

9. **Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

10. **Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

11. **Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

12. **Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

13. **Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefit to arise therefrom. *Provided however,* That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

14. **Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

15. **Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

RECEIVED APR 19 1934

SEARCHED	INDEXED
SERIALIZED	FILED
APR 19 1934	
FBI - WASHINGTON	

COPIED BY THE BUREAU OF LAND MANAGEMENT

SPECIAL USE PERMIT CONTINUATION SHEET

AREA

Shenandoah National Park

PERMIT NO.

01434040014

PAGE N

3

16. The lines crossing Skyline Drive must be maintained to meet safety requirements prescribed by the National Electrical Safety Code, the Commonwealth of Virginia, and the National Park Service. The right-of-way will be in use throughout the year.
17. No changes shall be made without prior approval of the Superintendent concerning the design and electrical loads of the lines and their supporting structures.
18. Right-of-way clearing shall not exceed the total width of 300 feet indicated for the deed easement and special use permit lands, except for necessary cutting of selected trees outside this clearing which may endanger the power lines. Laurel, azaleas, and other low growth plants and shrubs shall not be cleared from the 300 foot right-of-way unless they are determined to interfere with prescribed uses. Brush log and other clearing debris shall be removed from the right-of-way and disposed of by scattering in close contact with the ground over a sufficiently wide area outside the clearing to eliminate brush piles or windrows of debris along the clearing edge.
- Such large trees outside the specified right-of-way limits, which in falling could come within 10 feet of the power line, may be selectively felled only after receiving prior approval of the Superintendent, and then only under the supervision of the Superintendent's authorized representative.
19. General spraying of the right-of-way to control plant growth shall not be performed except that basal spraying of cut stumps to control sprouting may be accomplished by competent personnel. This spraying is to be done by means of low pressure type spray equipment and is not to be done unless the air is calm. If any wind is apparent, said spraying will be delayed until weather conditions permit. All spraying, including the use of the chemical selected, must be approved by the National Park Service beforehand.
20. If a line is abandoned, the Permittee is to remove all visible evidence and leave the area in as nearly the original condition as possible in a manner acceptable to the Superintendent.
21. In consideration for obtaining the privileges granted herein, the Permittee agrees to indemnify and save harmless the Shenandoah National Park from any loss to it, including not only damage to its government property and injury to its government employees but also judgments, settlements, or compromises for property damage or injury to all persons for which the United States may be liable, resulting from the exercise by the Permittee and its employees of the privileges granted herein.
22. In the event that damage to the Skyline Drive is caused by the Permittee in traveling to and from the site, the Permittee agrees to repair such damage immediately upon notification by the Superintendent. Vehicle Weight Limitations, as shown in Attachment "B", become effective December 1, 1973.
23. This permit shall be automatically renewable annually for periods of one year each, upon payment of the \$25.00 annual fee, but not exceeding in total a term of ten years, terminating on October 31, 1983.
24. Condition No. 4 has been revised as shown on Attachment "A", Continuation of Conditions of this permit.

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

SPECIAL USE PERMIT CONTINUATION SHEET

AREA

Shenandoah National Park

PERMIT NO.

0X484040014

FIG.

25. No refund of fee is due the Permittee by reason of cancellation or revocation of this permit.

26. Adequate measures are to be maintained to hold environmental impact to the lowest possible level.

ATTACHMENT A

CONTINUATION OF CONDITIONS OF THIS PERMIT (FORM 10-114)

The following provisions constitute Condition 4 in accordance with Executive Order No. 11246 of September 24, 1965, as amended by Executive Order No. 11375 of October 13, 1967.

Nondiscrimination. If use of the resource covered by the permit will involve the employment by the permittee of a person or persons, the permittee agrees as follows:

(1) The Permittee will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Permittee will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Permittee agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Superintendent setting forth the provisions of this nondiscrimination clause.

(2) The Permittee will, in all solicitations or advertisements for employees placed by or on behalf of the Permittee, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(3) The Permittee will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Superintendent, advising the labor union or workers' representative of the Permittee's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, as amended, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The Permittee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The Permittee will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, as amended, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the Superintendent and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Permittee's noncompliance with the nondiscrimination clauses of this permit or with any of such rules, regulations, or orders, this permit may be cancelled, terminated or suspended in whole or in part and the Permittee may be declared ineligible for further Government contracts or permits in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, as amended, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Permittee will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, as amended, so that such provisions will be binding upon each subcontract or purchase order as the Superintendent may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the Permittee becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Superintendent, the Permittee may request the United States to enter into such litigation to protect the interests of the United States.

ATTACHMENT B

Shenandoah National Park

Vehicle weight limitations. -- The weight limitations established by the Commonwealth of Virginia Code of 1950 shall apply to all park roads except as hereafter modified:

No vehicle including the load thereon shall exceed a maximum gross vehicle weight of 40,000 lb. during the period between May 1 and November 30.

No vehicle including the load thereon shall exceed 20,000 lb. during the period between December 1 and April 30.

In addition, the weight for any individual axle shall not exceed 600 lb/in. of tire width in contact with the road surface or 18,000 lb., whichever is less.

The superintendent of Shenandoah National Park, may when favorable road conditions prevail between December 1 and April 30, or as required for park operations, including emergencies and maintenance and construction activities, issue a permit in writing authorizing an operator to operate or move a vehicle exceeding the allowable maximum over park roads.

Whenever necessary by reason of rains, snow, ice, freezing, thawing, or for other cause, the superintendent of Shenandoah National Park may temporarily close roads or limit the weight and/or volume of vehicular travel.

Exceptions (1) through (3) shown above do not apply to the main entrance from U.S. Highway 211 to the headquarters maintenance area.

Effective date. -- This regulation will become effective December 1, 1973.

Robert R. Jacobsen  
Superintendent  
Shenandoah National Park

May 27 17  
Project 1A

Deed  
Easement  
Reservation

Nat'l Park Service  
Special Use Permit  
No. 12-10-0127-3153

100'

200

300'

185'

115'

Add  
PIN

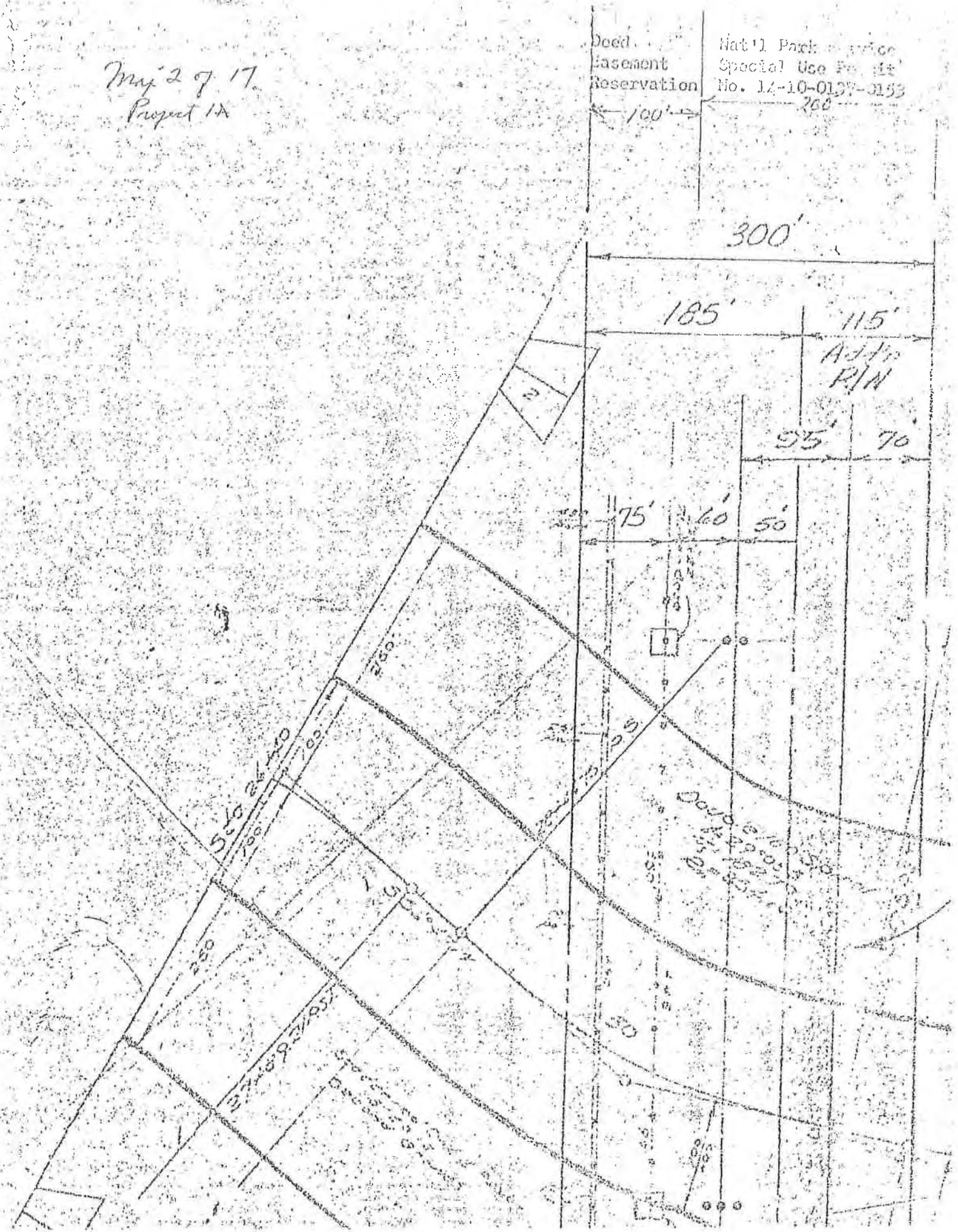
55'

70'

75'

60'

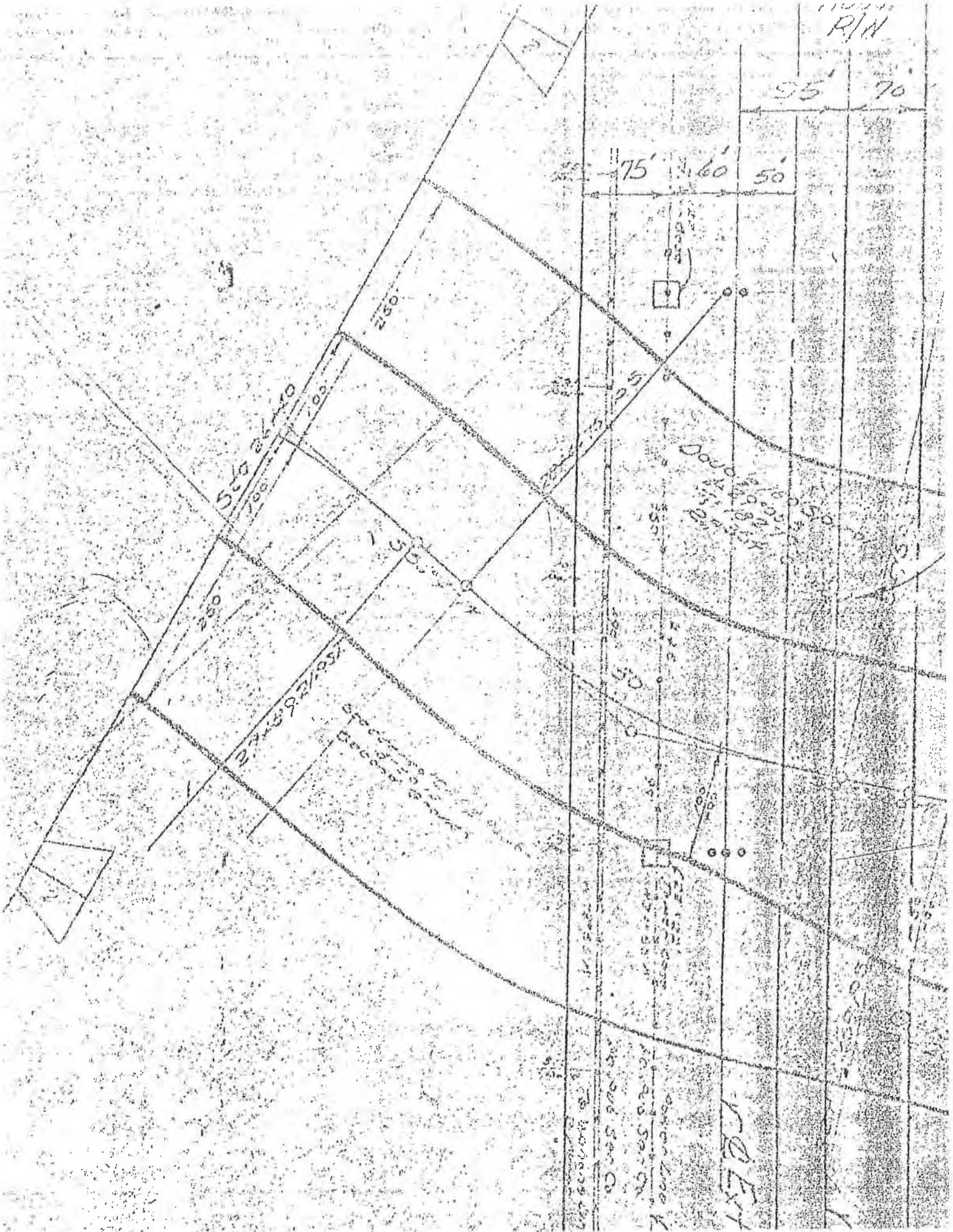
50'



RIN

95' 70'

75' 60' 50'



DO NOT  
REMOVE  
THIS  
MARKER

Specimens for  
Analysis

RD EXT

ON LINE  
FOR S.A.C.

FOR S.A.C.

EXIST. TOWER #122 981+80.3  
 PROPOSED TOWER 982+10  
 #124

SKYLINE DRIVE

EXIST. TOWER #123 986+45.3  
~~PROPOSED~~ TOWER 986+85  
 #125

990+00

EDGE R/W  
 CONVERTED TO 230 KV

EXISTING BREMO-DOOMS 115 KV T/L  
 EXISTING CHARLOTTEVILLE-DOOMS 115 KV T/L

EXISTING ELMONT-DOOMS 500 KV T/L  
 EDGE R/W

DRAWING NO.  
 1-233-1-1

NAME	DATE	IMPROVEMENT REQ. NO.	SHEET NO.
DRAWN <i>K.M.D.</i>	2-8-72	8-865	
INSPECTED <i>K.M.D.</i>	2-17-72	SCALE	
CHECKED <i>K.M.D.</i>	2-17-72	HOR. 1"=200'	
APPROVED <i>SMC</i>	2-17-72	VERT. 1"=20'	

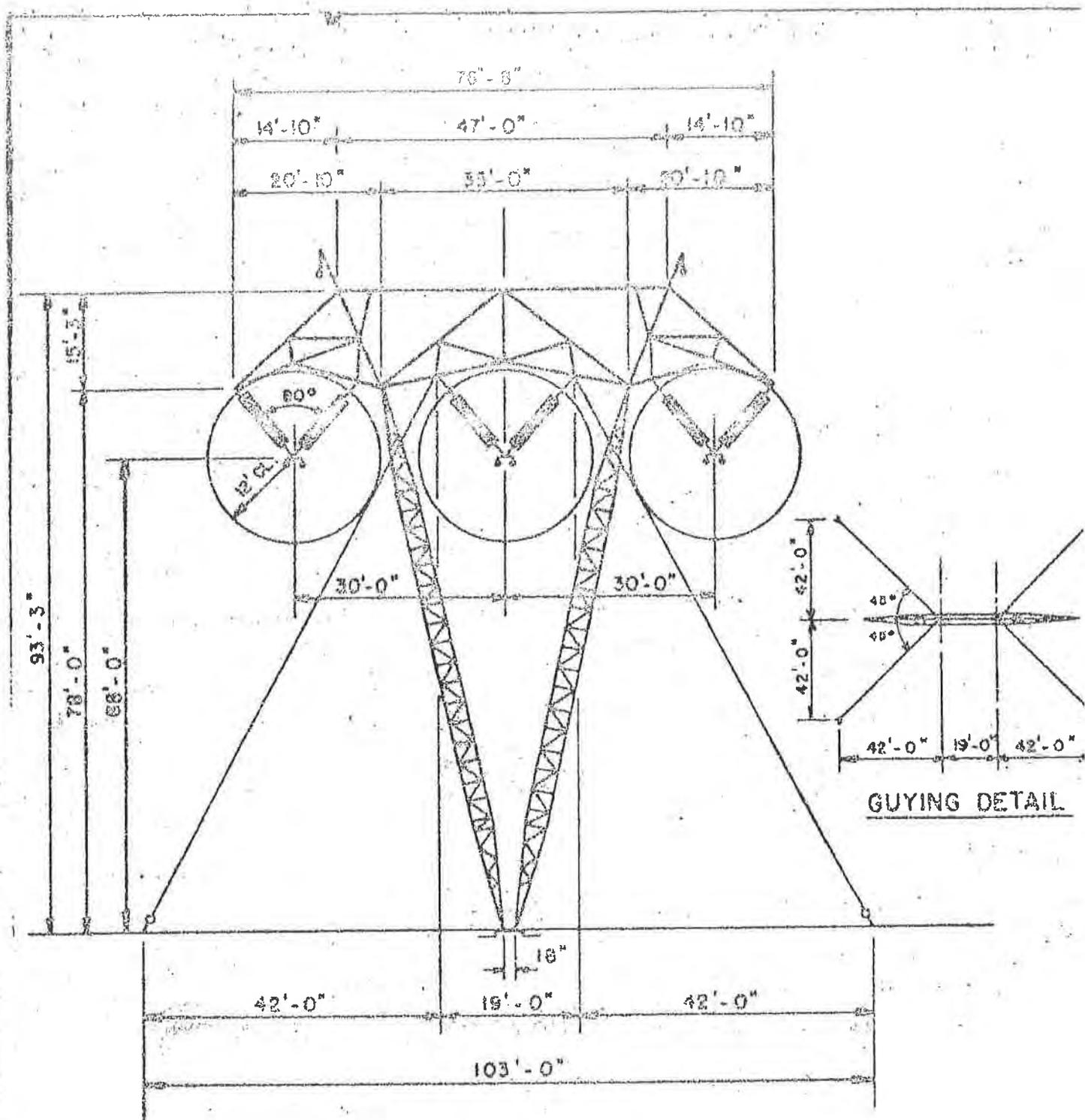
VIRGINIA ELECTRIC AND POWER CO.  
 230 KV TRANSMISSION LINE NO. 233  
 CHARLOTTEVILLE-DOOMS  
 CROSSING OF SKYLINE DRIVE

ON STEEL  
 SUSP.

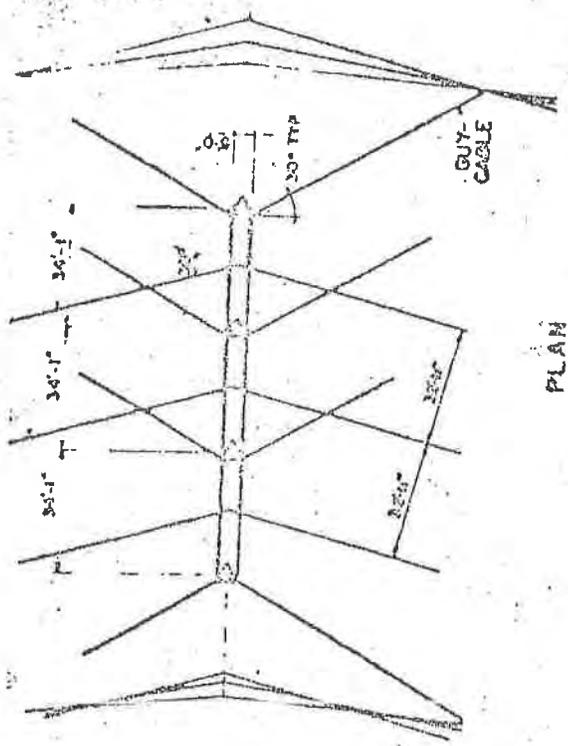
RULING SPAN --

Pole-Tower Location Sheets, Drawing No.  
 Work Order No. 726493

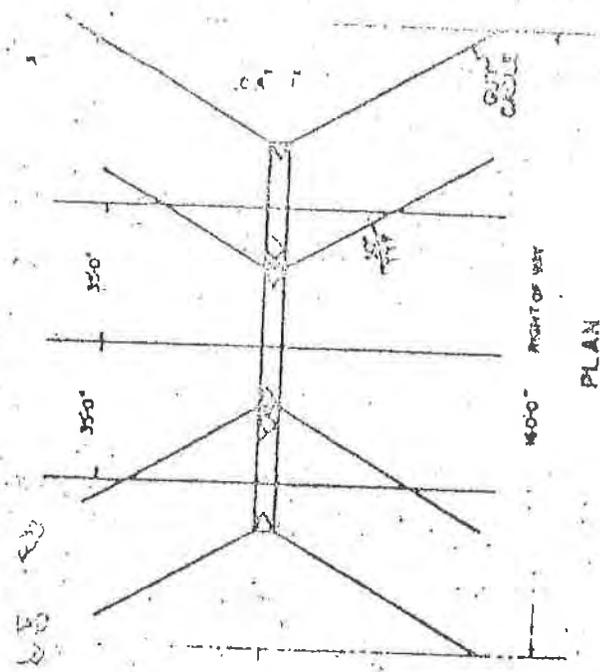
Bill of Material #014



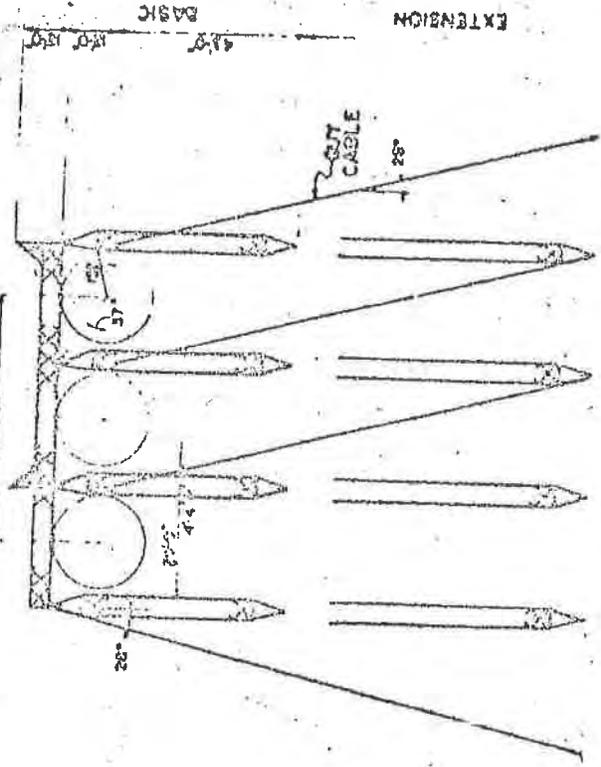
GUYED VEE TOWER



PLAN

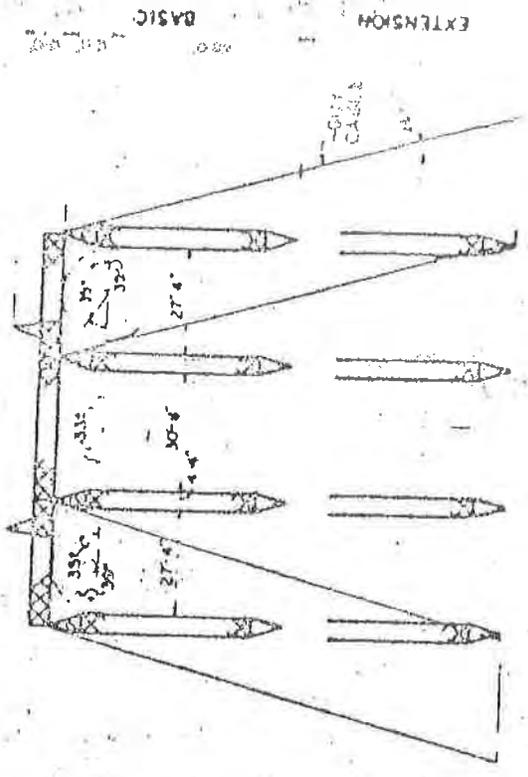


PLAN



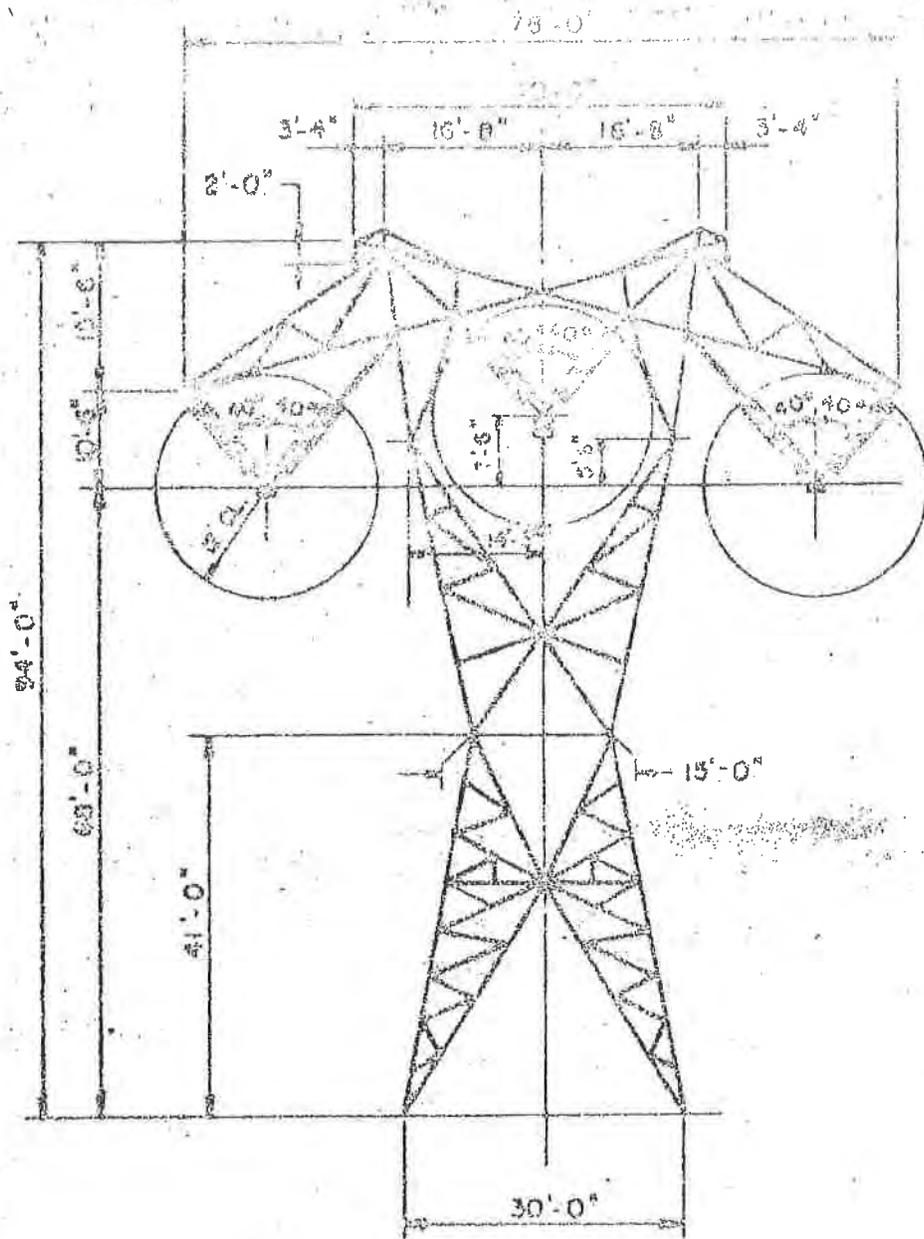
ELEVATION

2°-30° ANGLE TOWER - TYPE FMA-GM

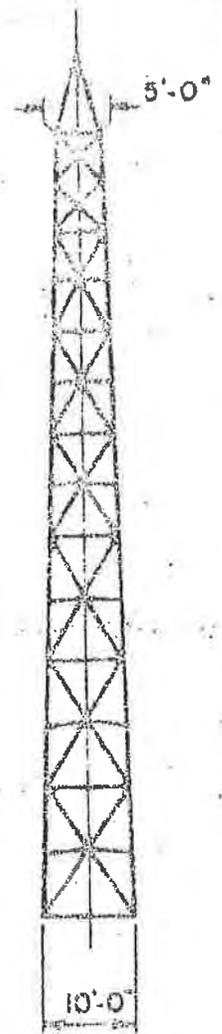


ELEVATION

SPECIAL TANGENT TOWER - TYPE FST-GM



LATERAL ELEV.



LONG ELEV.

SELF-SUPPORTING TOWER  
12' CLEARANCE

EXHIBIT No. 3

EXHIBIT NO.

October 11, 1973

Mr. R. Taylor Hoskins, Superintendent  
United States Department of the Interior  
National Park Service Shenandoah National Park  
Luray, Virginia 22835

Dear Mr. Hoskins:

By letter dated April 9, 1973, the Virginia Electric and Power Company requested that Special Use Permit No. 1:134:0247, dated September 30, 1968, be renewed. This permit covers a 115 KV power transmission line which is being converted to 230 KV and a 500 KV power transmission line across Park property in the South River District of Augusta County, Virginia.

Would you please review your file and our previous correspondence and advise us the status of the renewal permit.

Yours very truly,

ORIGINAL SIGNED BY  
DANIEL F. FARLEY

Daniel F. Farley  
Manager-Real Estate

cc: Mr. C. A. Sherry

Mr. Sherry:

This is on the Doods-Elmont 500 KV line and the Doods-Charlottesville 230 KV Line Rebuild.

D.F.F.

RCB:jbw

RCB

Mr. C. A. Sherry

Richmond, Virginia

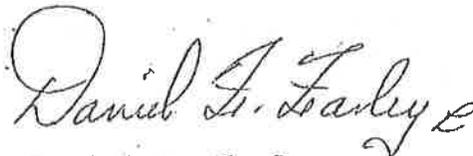
Daniel F. Farley

December 4, 1973

SHENANDOAH NATIONAL PARK  
RENEWAL PERMIT

Attached is a copy of renewal Special Use Permit No. CX484040014 which authorizes Virginia Electric and Power Company to operate and maintain the Bremo-Dooms 115 KV Line and the Dooms-Elmont 500 KV Line across the Shenandoah National Park for an additional period of ten years.

Should you have any questions regarding the Permit, please contact us.



Daniel F. Farley

cc: Mr. A. S. Hadfield

RCB/sej

RCB



# United States Department of the Interior

NATIONAL PARK SERVICE  
SHENANDOAH NATIONAL PARK  
LURAY, VIRGINIA 22835

November 29, 1973

NOTED O. F. FARLEY

DEC 3 1973

IN REPLY REFER TO:

L30(CX484040014)

NOTED DEC 3 1973 J.G.L.

Mr. Daniel F. Farley  
Manager-Real Estate  
Virginia Electric and Power Co.  
Richmond, Virginia 23219

Dear Mr. Farley:

We acknowledge your letter of November 21, 1973, enclosing the signed copies of Special Use Permit No. CX484040014 effective November 1, 1973, and your check in the amount of \$25.00 in payment of the annual fee.

My signature of approval has been added and the yellow copy of the permit is returned for your file.

Sincerely yours,

Robert R. Jacobsen  
Superintendent

November 21, 1973  
Your File: 130 (0014)

Mr. Robert R. Jacobsen, Superintendent  
United States Department of the Interior  
National Park Service  
Shenandoah National Park  
Luray, Virginia 22835

Dear Mr. Jacobsen:

In reference to our previous correspondence, enclosed is Special Use Permit No. CX484040014 received as a renewal of Special Use Permit No. 1:134:0247, which expired October 31, 1973 and which authorized Virginia Electric and Power Company to maintain a 115KV power transmission and a 500KV power transmission line across park property at Jarmans Gap in the South River District of Augusta County, Virginia. The Permit has been signed on behalf of the Company.

Also enclosed is Company check number 28287, in the amount of \$25.00, in payment of the rental for the period November 1, 1973 to October 31, 1974. After the Permit is approved by you, please forward the yellow copy to us for our records.

We regret any inconvenience we may have caused you with regards to our letter of October 29, 1973 and thank you for extending the life of the Permit to ten years.

Yours very truly,

ORIGINAL SIGNED BY  
DANIEL F. FARLEY

Daniel F. Farley  
Manager-Real Estate

BC: Mr. C. A. Sherry

RCB:jbw

RCB



United States Department of the Interior

NATIONAL PARK SERVICE

SHENANDOAH NATIONAL PARK

LURAY, VIRGINIA 22835

IN REPLY REFER TO:

L30(0014)

October 18, 1973

NOTED D. F. FARLEY

OCT 19 1973

Mr. Daniel F. Farley  
Manager Real Estate Department  
Virginia Electric and Power Company  
Richmond, Virginia 23261

Dear Mr. Farley:

This is in reference to Special Use Permit No. 1:134:0247 which expires on October 31, 1973, and which authorizes the Virginia Electric and Power Company to maintain a 115 KV power transmission line and a 500 KV power transmission line across Park property at Jarman's Gap in the South River District of Augusta County, Virginia.

We enclose a renewal Special Use Permit No. CX184040014, to expire October 31, 1983. The ten years duration is in response to the request in your letter of April 9, 1973. Please examine carefully the terms and attachments. The standard charge is now \$25.00, instead of \$10.00 annually.

Your signature and those of two witnesses should be added, and all enclosed copies returned to this office so that my approval signature may be added. At that time, an approved signed copy will be returned to you.

Sincerely yours,

Robert R. Jacobsen  
Superintendent

Enclosures (2)











DESCRIPTION

Date

Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvanna County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating Station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/84 - 10/31/85.

25 00

PAYMENT DUE DATE NOV 09 1984  
 CHARGES FOR LATE PAYMENT WILL BE  
 AT THE RATE OF .75% OF THE  
 OVERDUE PAYMENT FOR EACH 30-DAY  
 PERIOD OR PORTION THEREOF AND AN  
 ADMINISTRATIVE SERVICE CHARGE OF  
 \$5.00 FOR EACH TRANSACTION RELATED  
 TO THE UNPAID BALANCE."

AMOUNT DUE THIS BILL, \$ 25 00

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Bremo Power Station on the James River in Fluvana County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/86-10/31/87.  PAYMENT DUE DATE <u>NOV 28 1986</u> "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF <u>.67%</u> OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE."				25 00
AMOUNT DUE THIS BILL;					\$..... 25 00

136-241

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Bremo Power Station on the James River in Fluvana County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating Station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/85 - 10/31/86.  PAYMENT DUE DATE <u>NOV 4 1985</u> "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF <u>.75%</u> OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE."				25 00
AMOUNT DUE THIS BILL,					\$..... 25 00

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvana County to the Doms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating stations in West Virginia to a substation near Doms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/88 - 10/31/89.

25 00

PAYMENT DUE DATE DEC 1 1988  
 "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF .5% OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE"

*136-24*  
 98496221  
~~98030221~~

AMOUNT DUE THIS BILL, \$ 25 00

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvana County to the Doms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating station in West Virginia to a substation near Doms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/87-10/31/88.				25 00
	PAYMENT DUE DATE JAN 1 1988 "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF .583% OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE"				
AMOUNT DUE THIS BILL,					\$ 25 00

*136-24*

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

# OFFICIAL RECEIPT

136-24

Bill No. 1840-1-0025

DEPARTMENT OF THE INTERIOR - NPS

Date 10/29/90

Make Remittance Payable To:

(Bureau or Office)

Mail Payment To:

Route 4 - Box 348, Shenandoah National Park, Luray, Virginia 22835-9051

(Address)

PAYER:

Virginia Electric & Power Co.  
 P. O. Box 26666  
 Richmond, Virginia 23261

ATTN: *N. H. Higgins*  
 Nancy Hunley  
 Dir. Real Est. Fac.

To be issued as official receipt for all cash remittances and for all other remittances when required by applicable procedures.

Amount of Payment \$ 25.00

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Bremo Power Station on the James River in Fluvanna County to the Booms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating stations in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX4840-4-0014 for the period 11/01/90 - 10/31/91.				25 00
<p>PAYMENT DUE DATE NOV 29 1990</p> <p>CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF _____ OF THE OVER-DUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE.</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">HAS BEEN PAID</p>					
AMOUNT DUE THIS BILL,					\$ 25 00

RECEIVED as payment on above bill

\$ 25.00

Date

12/06/90

Signature

*F. S. [Signature]*

Title

Budget Assistant

# OFFICIAL RECEIPT

Bill No. BC4800-0-0015

Make Remittance Payable To: NATIONAL PARK SERVICE  
(Bureau or Office)

Date 07/06/90

Mail Payment To: 3725 EAST BROAD STREET, RICHMOND, VIRGINIA 23223  
(Address)

PAYER:

VIRGINIA POWER COMPANY  
P.O. BOX 26666  
RICHMOND, VIRGINIA 23261

To be issued as official receipt for all cash remittances and for all other remittances when required by applicable procedures.

Amount of Payment \$ 50.00

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
07/06/90	APPLICATION FEE FOR RICHES OF WAY GRANTS				50 00
AMOUNT DUE THIS BILL,					\$ 50 00

RECEIVED as payment on above bill.

\$ 50.00

Date 07/06/90

Signature

*Shirley Denise Joyner*

Title

*Administrative Clerk*

# OFFICIAL RECEIPT

Bill No. 4840-2-0058

DEPARTMENT OF THE INTERIOR - NPS

Date 07/23/92

Make Remittance Payable To:

(Bureau or Office)

Mail Payment To: Route 4 - Box 348, Shenandoah National Park, Luray, Virginia 22835-9051

(Address)

PAYER:

VIRGINIA POWER  
DIRECTOR OF REAL ESTATE, ADM. & ACQ.  
P. O. BOX 26666  
RICHMOND, VA. 23261

To be issued as official receipt for all cash remittances and for all other remittances when required by applicable procedures.

Amount of Payment \$ 144.20

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	<u>10 YEAR RIGHT-OF-GRANT</u> PERMIT NUMBER - 4840-92-022  833 <span style="margin-left: 200px;">136-24</span>  PAYMENT DUE DATE <u>AUG 23 1992</u> CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF <u>.67%</u> OVERDUE PAYMENT FOR EACH PERIOD OR PORTION THEREOF ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE"				144.20
AMOUNT DUE THIS BILL, \$					144.20

RECEIVED as payment on above bill

Date 08/17/92

Signature [Signature]

Title Budget Assistant

\$ 144.20

OFFICIAL RECEIPT

PERMIT #

136-24

Bill No.

4840-4-0048

DEPARTMENT OF THE INTERIOR -- NPS

Date 06/23/94

Make Remittance Payable To:

(Bureau or Office)

Mail Payment To:

Route 4 - Box 348, Shenandoah National Park, Luray, Virginia 22835-9051

(Address)

PAYER:

ATTN BETTY S MAUCK - ADMIN ASSISTANT  
VIRGINIA POWER  
P. O. BOX 26666  
RICHMOND, VA 23261

To be issued as official receipt for all cash remittances and for all other remittances when required by applicable procedures.

Amount of Payment \$ 94.20

Date :	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	10 YEAR RIGHT OF WAY GRANT PERMIT NUMBER - 4840-92-0022				94 20
	PAYMENT DUE DATE 07/23/94 "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF 25% OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE."				

AMOUNT DUE THIS BILL, \$ 94.20

RECEIVED as payment on above bill.

Date

08/10/94

Signature

L. Shackelford

Title

Budget Assistant

DI-1040  
Revised  
(Aug. 1973)

# BILL FOR COLLECTION

Bill No. 4840-4-0048

DEPARTMENT OF THE INTERIOR - NPS  
Make Remittance Payable To: \_\_\_\_\_  
(Bureau or Office)

Date 06/23/94

Mail Payment To: Route 4 - Box 348, Shenandoah National Park, Luray, Virginia 22835-9051  
(Address)

PAYER:

ATTN BETTY S MAUCK - ADMIN ASSISTANT  
VIRGINIA POWER  
P. O. BOX 26666  
RICHMOND, VA 23261

136-24

Please detach top portion of this bill and return with remittance.

Amount of Payment \$ \_\_\_\_\_

Date	DESCRIPTION	Quantity	Unit Price		Amount																																																		
			Cost	Per																																																			
	10 YEAR RIGHT OF WAY GRANT PERMIT NUMBER - 4840-92-0022				94 20																																																		
<table border="1"> <tr> <td>Purpose</td> <td colspan="3">Annual Fee</td> <td>Dist.</td> </tr> <tr> <td>ID</td> <td>Job/Project No.</td> <td>Budget</td> <td>Unit</td> <td>Type</td> </tr> <tr> <td>4</td> <td>714/1316215141012/131612</td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>Performance Approval:</td> <td>Betty Mauck</td> <td>Payment Approval:</td> <td colspan="2">K.S. Higgins</td> </tr> <tr> <td colspan="5">SPECIAL INSTRUCTIONS</td> </tr> <tr> <td>Return Check To:</td> <td colspan="4">Location</td> </tr> <tr> <td>Please Call:</td> <td colspan="4">Phone No:</td> </tr> <tr> <td colspan="2">PAYMENT DUE DATE 07/23/94</td> <td colspan="2">Pay By:</td> <td>7-23-94</td> </tr> <tr> <td colspan="5">           "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF .25% OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE."         </td> </tr> <tr> <td colspan="5" style="text-align: right;">AMOUNT DUE THIS BILL, \$.....94.....20.....</td> </tr> </table>						Purpose	Annual Fee			Dist.	ID	Job/Project No.	Budget	Unit	Type	4	714/1316215141012/131612			3	Performance Approval:	Betty Mauck	Payment Approval:	K.S. Higgins		SPECIAL INSTRUCTIONS					Return Check To:	Location				Please Call:	Phone No:				PAYMENT DUE DATE 07/23/94		Pay By:		7-23-94	"CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF .25% OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF AND AN ADMINISTRATIVE SERVICE CHARGE OF \$5.00 FOR EACH TRANSACTION RELATED TO THE UNPAID BALANCE."					AMOUNT DUE THIS BILL, \$.....94.....20.....				
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AMOUNT DUE THIS BILL, \$.....94.....20.....																																																							

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.

April 9, 1973

Mr. R. Taylor Hoskins, Superintendent  
United States Department of the Interior  
National Park Service  
Shenandoah National Park  
Luray, Virginia 22835

Dear Mr. Hoskins:

By Special Use Permit No. 1:134:0247 dated September 30, 1968, the National Park Service authorized the Company to maintain a 115 KV power transmission line (being converted to 230 KV) and to construct and maintain a 500 KV power transmission line across Park property in the South River District of Augusta County, Virginia, as shown on a print of map 2 of 17 dated September 7, 1963, hereto attached.

The permit will expire on October 31, 1973 and we request that the permit be renewed. These lines are permanent facilities which we desire to use for many years; therefore, we would appreciate it if the renewal permit could be for a longer duration than the five years on the previous permits.

Very truly yours,



C. M. Wilkinson, Manager  
Real Estate Department

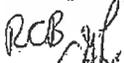
cc: Mr. C. A. Sherry

Mr. Sherry:

This is on the Dooms-Elmont 500 KV Line and the Dooms-Charlottesville 230 KV Line Rebuild.

C.M.W.

RCB:jbw



BILL FOR COLLECTION

NOTED OCT. 18 1982 BB7  
Bill No. 1840-3-15

Make Remittance Payable To: Shenandoah National Park Date: 10/06/82  
(Bureau or Office)

Mail Payment To: Luray, Virginia 22835-9051  
(Address)

PAYER:

Virginia Electric & Power Company  
P. O. Box 26666  
Richmond, Virginia 23261  
ATTN: Mr. D. F. Farley  
Manager-Real Est.

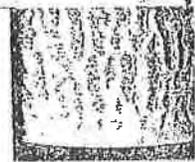
Please detach top portion of this bill and return with remittance.

Amount of Payment \$ \_\_\_\_\_

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvana County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating Station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia - in accordance with Special Use Permit No. CX1840-4-0014 for the period 11/01/82 - 10/31/83.				25 00
PAYMENT DUE DATE <u>NOV 6 1982</u> NEW FEDERAL REGULATIONS REQUIRE THAT; "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF <u>.998%</u> OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF THAT PAYMENT IS DELAYED."					
AMOUNT DUE THIS BILL,					\$ 25 00

*Paid*  
*10-26-82*  
*Check No. 88804*

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.





# BILL FOR COLLECTION

Bill No. 1840-2-19

Make Remittance Payable To: Shenandoah National Park  
(Bureau or Office)

Date 10/09/81

Mail Payment To: Luray, Virginia 22835-9051  
(Address)

PAYER:

Virginia Electric & Power Co.  
P. O. Box 26666  
Richmond, Virginia 23261

ATTN: Mr. D. F. Farley  
Manager-Real Est.

Please detach top portion of  
this bill and return with  
remittance.

Amount of Payment \$ \_\_\_\_\_

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	<p>Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Brems Power Station on the James River in Fluvanna County to the Dooks Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm generating Station in West Virginia to a substation near Dooks and to Elmont Substation, near Richmond, Virginia, in accordance with Special Use Permit No. CX184040014 for the period 11/1/81 - 10/31/82.</p> <p><i>Chq. 98050221</i></p> <p>PAYMENT DUE DATE <u>NOV 9 1981</u> NEW FEDERAL REGULATIONS REQUIRE THAT; "CHARGES FOR LATE PAYMENT WILL BE AT THE RATE OF <u>1.53%</u> OF THE OVERDUE PAYMENT FOR EACH 30-DAY PERIOD OR PORTION THEREOF THAT PAYMENT IS DELAYED."</p>				25 00
AMOUNT DUE THIS BILL,					\$ 25 00

*Paid  
10-29-81  
Check # 51545*

NOTE: A receipt will be issued for all cash remittances and for all other remittances when required by applicable procedures. Failure to receive a receipt for cash payment should be promptly reported to the bureau or office shown above.







# BILL FOR COLLECTION

Bill No. 136  
1840-9-10

Make Remittance Payable To: Shenandoah National Park  
 (Bureau or Office)

Date 10/13/78

Mail Payment To: Luray, Virginia 22635  
 (Address)

PAYER:

Virginia Electric & Power Company  
 P. O. Box 26666  
 Richmond, Virginia 23261

Amount of Payment \$ \_\_\_\_\_

Date	DESCRIPTION	Quantity	Unit Price		Amount
			Cost	Per	
	<p>Annual fee for the purposes of maintaining the existing 115 KV power transmission line extending from the Bremo Power Station on the James River in Fluvanna County to the Dooms Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Stern Generating Station in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia, in accordance with Special Use Permit No. CX484040014 for the period 11/1/78 to 10/31/79.</p> <p>BILLING IS PAST DUE - PLEASE REMIT THE AMOUNT OF \$25.00 -</p> <p>THANK YOU            ACCOUNTING DEPT.            SHENANDOAH NATIONAL PARK            LURAY, VIRGINIA 22635</p>				25
AMOUNT DUE THIS BILL,					\$ 25.00



March 5, 1979

Accounting Department  
Shenandoah National Park  
Luray, Virginia 22835

Dear Sir:

Enclosed is a check for \$25.00 for the annual fee for permit number CX-484040014 for the period of November 1, 1978 to October 31, 1979 as shown by the attached copy of your bill.

Yours very truly,

ORIGINAL SIGNED BY  
DANIEL F. FARLEY

Daniel F. Farley  
Manager - Real Estate

DBZ/dkw

FILE COPY



VIRGINIA POWER

November 17, 1988

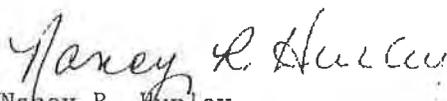
Department of the Interior - NPS  
Route 4  
Box 348  
Shenandoah National Park  
Luray, Virginia 22835-9051

Re: Special Use Permit No. CX4840-4-0014

Gentlemen:

Enclosed is Virginia Power's check in the amount of \$25.00, covering the annual fee for the purposes of maintaining the existing 115KV transmission line extending from the Breomo Power Station in Fluvanna County to the Dooms Substation north of Waynesboro, and maintaining the 500KV power transmission line extending from the Mt. Storm generating stations in West Virginia to a substation near Dooms and to Elmont Substation, near Richmond, Virginia, in accordance with Special Use Permit No. CX4840-4-0014 for the period of November 1, 1988 to October 31, 1989.

Yours very truly,

  
Nancy R. Hunley  
Director-Real Estate Acquisition/  
Administration

Enclosure

General Notice

Debt Collection

On October 25, 1983, Public Law 97-365, the Debt Collection Act of 1982, was enacted. The legislation significantly amends, among other laws, the Federal Claims Collection Act of 1966 (31 U.S.C. 951-953). The amendment allows Federal agencies means to more aggressively pursue delinquent debt owed the Federal Government. This notice lists the actions that the Department of the Interior plans to execute in the event of a delinquency.

If payment is not received within 30 days of the date of the first billing, the following actions will be taken:

1. Interest will be assessed for each day the bill is delinquent.
2. An administrative (processing) charge will be added to each follow-up billing necessitated by the delinquency.
3. On all bills delinquent for 90 days or more, a 6% per year interest penalty will be added to the bill.
4. All bills delinquent for 120 days or more will be forwarded to a private debt collection agency for collection, and any fee incurred by the Department for the collection will be added to the bill.
5. The Department reserves the right to submit debtor information to a private credit bureau for inclusion in its debtor data file. The debtor will be provided a 60-day notice before the information is forwarded to a credit bureau.
6. Questions concerning this bill and an explanation of a debtor's due process rights should be addressed to:

SHENANDOAH NATIONAL PARK

Route 4 - Box 348

Luray, Virginia 22835

THIS GENERAL NOTICE PERTAINS TO ALL BILLS FOR COLLECTION THAT ARE PAST DUE.

October 11, 1983

Mr. W. W. Loftis, Jr.  
Assistant Superintendent  
United States Department of The Interior  
National Park Service  
Shenandoah National Park  
Luray, Virginia 22835

Dear Mr. Loftis:

In reference to your letter dated September 30, 1983, enclosed is Special Use Permit No. CX-4840-4-0014, which authorizes Virginia Electric and Power Company to maintain a 115kV power transmission and a 500kV power transmission line across park property Jarman's Gap in Augusta County, Virginia. The Permit has been signed on behalf of the Company.

Also enclosed is this Company's check in the amount of \$25 in payment of the rental for the period October 31, 1983 to October 29, 1984. After the permit is approved by you, please forward the yellow copy to us for our records.

Yours very truly,

Daniel F. Farley  
Manager - Real Estate

Enclosures

MLD:dkw



IN REPLY REFER TO:

# United States Department of the Interior

NATIONAL PARK SERVICE  
SHENANDOAH NATIONAL PARK  
LURAY, VIRGINIA 22835

September 30, 1983

L30(4-0014)

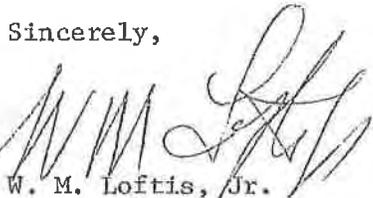
Mr. Daniel F. Farley  
Manager - Real Estate  
Virginia Electric and Power Company  
Richmond, Virginia 23261

Dear Mr. Farley:

As requested in your letter dated August 1, we are enclosing two copies of Addendum No. 1 to Special Use Permit No. CX-4840-4-0014 which will extend the permit to October 31, 1993.

Please sign both copies of Addendum No. 1, have them witnessed in the spaces provided for that purpose, and return both copies to this office, together with your \$25.00 fee. Please make checks payable to "Department of the Interior - NPS," not to Shenandoah National Park. After execution in this office, we will return a copy to you.

Sincerely,



W. M. Loftis, Jr.  
Assistant Superintendent

Enclosure

98050221



IN REPLY REFER TO:

# United States Department of the Interior

NATIONAL PARK SERVICE

SHENANDOAH NATIONAL PARK  
LURAY, VIRGINIA 22835

October 13, 1983

L30(4-0014)

Mr. Daniel F. Farley  
Manager - Real Estate  
Virginia Electric and Power Company  
Richmond, Virginia 23261

Dear Mr. Farley:

We acknowledge your letter of October 11, 1983, enclosing the signed copies of Addendum No. 1 to Special Use Permit No. CX-4840-4-0014 which will extend the permit to October 31, 1993.

We are enclosing your executed copy of the addendum.

Sincerely,

W. M. Loftis, Jr.  
Assistant Superintendent

Enclosure

# 034.16 J

VIRGINIA ELECTRIC AND POWER COMPANY  
ROUTING SLIP  
REAL ESTATE DEPARTMENT

- ~~Mr. Daniel F. Farley~~
- Mr. J. G. Love
- Mr. L. E. Ludeke
- Mr. G. D. Crosby
- Mr. H. E. Dickson
- Mr. M. L. Rawls
- Mr. M. L. Dickerson
- Mr. G. E. Dodson
- Mr. C. F. Branum
- Mr. M. D. Melancon
- ~~Mr. K. D. Adams~~
- Mr. R. C. Bailey
- Mr. C. C. Wright
- Mrs. Betty Mauck

Remarks

*Den: Raymond and  
I have checked this permit. They would  
not change #21. After you sign  
return to Raymond to request  
check. Jim*



COR 0126/15

GOV PERMIT

136-24

additional 150'

total width  
300'

United States Department of the Interior  
National Park Service  
SHENANDOAH NATIONAL PARK  
Luray, Virginia 22835

ADDENDUM NO. 1

Amend SPECIAL USE PERMIT NO. CX-4840-4-0014 to continue in effect  
for an additional 10 year(s) to October 31, 1993

All other provisions remain unchanged and apply to this addendum.

Virginia Electric and Power Company

Meredith L. Robinson  
1) Witness' Signature

Address  
P.O. Box 26666  
Richmond, Va 23261

2) Witness' Signature  
Cynthia C. Jesse

Address  
P.O. Box 26666  
Richmond, VA 23261

By: Daniel T. Harley  
Permittee's Signature  
Manager - Real Estate

Address  
P.O. Box 26666, Richmond, VA 23261

Issued at Luray, Virginia, this 13 day of October, 1983

[Signature]  
Superintendent's Signature

SPECIAL USE PERMIT

Shenandoah National Park

(Area)

Va. Electric & Power Company, of Richmond, Virginia 23209

is hereby authorized

during the period from November 1, 1973, to October 31, 1983, to use the following-described land in the above-named area:

A right-of-way near Jarman's Gap within Section 1-A, 200 feet in width and approximately 310 feet in length whereon is situated an existing 115 KV transmission line crossing the Skyline Drive in the vicinity of Station 31 + 10, and whereon is situated an existing 500 KV transmission line crossing the Skyline Drive in the vicinity of Station 32 + 05; both lines and the right-of-way are shown on the attached drawings. This permit may not be transferred or assigned without the consent of the Director, National Park Service. The permit may not be transferred to another person or corporation without the consent of the Director, National Park Service. The permit is subject to the terms, conditions, covenants, and reservations expressed or implied herein. The permit is issued for the purpose of maintaining the existing 115 KV power transmission line extending from the Breno Power Station on the James River in Fluvanna County to the Deems Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm Generating Station in West Virginia to a substation near Deems Road to Element Substation, near Richmond, Virginia, as shown on attached Drawing No. 1-233-1-1. # Augusta County

subject to the conditions on the reverse hereof and attached pages and to the payment to the Government of the United States of the sum of twenty-five and 00/100 (\$25.00) Dollars (\$25.00) annually in advance (Monthly, semiannually, etc.) or as follows: The beneficiary and substation. The beneficiary is the National Park Service. The permit is issued for the purpose of maintaining the existing 115 KV power transmission line extending from the Breno Power Station on the James River in Fluvanna County to the Deems Substation north of Waynesboro, and maintaining the 500 KV power transmission line extending from the Mt. Storm Generating Station in West Virginia to a substation near Deems Road to Element Substation, near Richmond, Virginia, as shown on attached Drawing No. 1-233-1-1. # Augusta County

Issued at Waynesboro, Virginia this 20th day of November, 1973.  
By: Robert H. Jacobson Superintendent.

The undersigned hereby accepts this permit subject to the terms, covenants, conditions, and reservations expressed or implied herein.  
DIRECTOR: Robert H. Jacobson  
TWO WITNESSES TO SIGNATURES  
NAME: Barbara C. Bailey  
ADDRESS: Richmond, Virginia  
NAME: Daniel F. Farley  
ADDRESS: Richmond, Va.

APPROVED: (If approval is required by higher authority)  
NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
CONDITIONS OF THIS PERMIT

136-c

Contractor, etc., shall not be held responsible for the accuracy of such information unless it is specifically stated on the contract that the contractor is to be held responsible for the accuracy of such information.

NAME

CONDITIONS OF THIS PERMIT

DATE

APPROVED: (Signature)

1. **Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the areas...

2. **Definitions.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent as the representative of the Director.

3. **Rights of the Director.**—Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails, as well as of those already existing.

4. **Nondiscrimination.**—See attachment A.

5. **Damages.**—The permittee shall pay the United States for any damage to the land covered hereby which may be reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

6. **Construction.**—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all improvements thereon shall be kept in safe, sanitary, and suitable condition.

7. **Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as is determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him or her and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the United States.

United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

8. **Water rights.**—The United States reserves the rights and title to all rights for water which may be developed or utilized in connection with this permit and shall furnish water to the permittee, when available, at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same at his own expense, subject to such special requirements as may be prescribed.

9. **Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

10. **Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

11. **Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires, and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

12. **Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

13. **Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit for their personal, direct or indirect, any pecuniary benefit to arise therefrom: Provided however, That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

14. **Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

15. **Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

to the following-described land in the above-named area...

of [Name] [Address]

SPECIAL USE PERMIT

Form with fields for permit number and expiration date.

NATIONAL PARK SERVICE

SPECIAL USE PERMIT CONTINUATION SHEET

AREA Shenandoah National Park	PERMIT NO. GK484020014	PAGE NO. 3
----------------------------------	---------------------------	---------------

16. The lines crossing Skyline Drive must be maintained to meet safety requirements prescribed by the National Electrical Safety Code, the Commonwealth of Virginia, and the National Park Service. The right-of-way will be in use throughout the year.
17. No changes shall be made without prior approval of the Superintendent concerning the design and electrical loads of the lines and their supporting structures.
18. Right-of-way clearing shall not exceed the total width of 300 feet indicated for the deed easement and special use permit lands, except for necessary cutting of selected trees outside this clearing which may endanger the power lines. Laurel, azaleas, and other low growth plants and shrubs shall not be cleared from the 300 foot right-of-way unless they are determined to interfere with prescribed uses. Brush logs and other clearing debris shall be removed from the right-of-way and disposed of by scattering in close contact with the ground over a sufficiently wide area outside the clearing to eliminate brush piles or windrows of debris along the clearing edge.
- Such large trees outside the specified right-of-way limits, which in falling could come within 10 feet of the power line, may be selectively felled only after receiving prior approval of the Superintendent, and then only under the supervision of the Superintendent's authorized representative.
19. General spraying of the right-of-way to control plant growth shall not be performed except that basal spraying of cut stumps to control sprouting may be accomplished by competent personnel. This spraying is to be done by means of low pressure type spray equipment and is not to be done unless the air is calm. If any wind is apparent, said spraying will be delayed until weather conditions permit. All spraying, including the use of the chemical selected, must be approved by the National Park Service beforehand.
20. If a line is abandoned, the Permittee is to remove all visible evidence and leave the area in as nearly the original condition as possible in a manner acceptable to the Superintendent.
21. In consideration for obtaining the privileges granted herein, the Permittee agrees to indemnify and save harmless the Shenandoah National Park from any loss to it, including not only damage to its government property and injury to its government employees but also judgments, settlements, or compromises for property damage or injury to all persons for which the United States may be liable, resulting from the exercise by the Permittee and its employees of the privileges granted herein.
22. In the event that damage to the Skyline Drive is caused by the Permittee in traveling to and from the site, the Permittee agrees to repair such damage immediately upon notification by the Superintendent. Vehicle Weight Limitations, as shown in Attachment "B", become effective December 1, 1973.
23. This permit shall be automatically renewable annually for periods of one year each, upon payment of the \$25.00 annual fee, but not exceeding in total a term of ten years, terminating on October 31, 1983.
24. Condition No. 4 has been revised as shown on Attachment "A", Continuation of Conditions of this permit.

SPECIAL USE PERMIT CONTINUATION SHEET

AREA Shenandoah National Park	PERMIT NO. CX484040014	PAGE NO. 4
----------------------------------	---------------------------	---------------

25. No refund of fee is due the Permittee by reason of cancellation or revocation of this permit.

26. Adequate measures are to be maintained to hold environmental impact to the lowest possible level.

ATTACHMENT A

CONTINUATION OF CONDITIONS OF THIS PERMIT (FORM 10-114)

The following provisions constitute Condition 4 in accordance with Executive Order No. 11246 of September 24, 1965, as amended by Executive Order No. 11375 of October 13, 1967.

Nondiscrimination. If use of the resource covered by the permit will involve the employment by the permittee of a person or persons, the permittee agrees as follows:

- (1) The Permittee will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Permittee will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Permittee agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Superintendent setting forth the provisions of this nondiscrimination clause.
- (2) The Permittee will, in all solicitations or advertisements for employees placed by or on behalf of the Permittee, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (3) The Permittee will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the Superintendent, advising the labor union or workers' representative of the Permittee's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, as amended, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Permittee will comply with all provisions of Executive Order No. 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Permittee will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, as amended, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the Superintendent and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the Permittee's noncompliance with the nondiscrimination clauses of this permit or with any of such rules, regulations, or orders, this permit may be cancelled, terminated or suspended in whole or in part and the Permittee may be declared ineligible for further Government contracts or permits in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, as amended, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The Permittee will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, as amended, so that such provisions will be binding upon each subcontract or purchase order as the Superintendent may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the Permittee becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Superintendent, the Permittee may request the United States to enter into such litigation to protect the interests of the United States.

ATTACHMENT B

Shenandoah National Park

Vehicle weight limitations. -- The weight limitations established by the Commonwealth of Virginia Code of 1950 shall apply to all park roads except as hereafter modified:

No vehicle including the load thereon shall exceed a maximum gross vehicle weight of 40,000 lb. during the period between May 1 and November 30.

No vehicle including the load thereon shall exceed 20,000 lb. during the period between December 1 and April 30.

In addition, the weight for any individual axle shall not exceed 600 lb/in. of tire width in contact with the road surface or 18,000 lb., whichever is less.

The superintendent of Shenandoah National Park, may when favorable road conditions prevail between December 1 and April 30, or as required for park operations, including emergencies and maintenance and construction activities, issue a permit in writing authorizing an operator to operate or move a vehicle exceeding the allowable maximum over park roads.

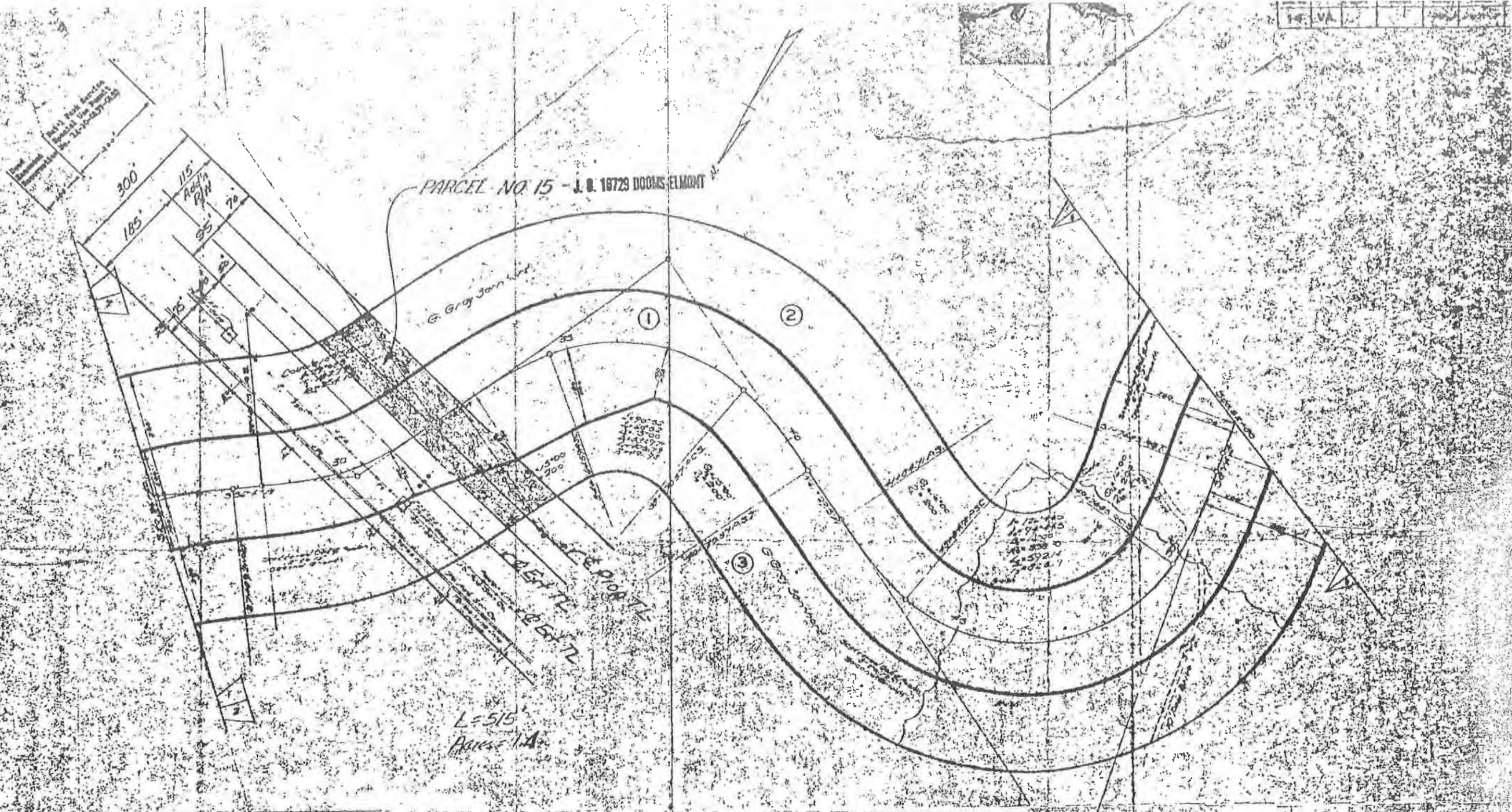
Whenever necessary by reason of rains, snow, ice, freezing, thawing, or for other cause, the superintendent of Shenandoah National Park may temporarily close roads or limit the weight and/or volume of vehicular travel.

Exceptions (1) through (3) shown above do not apply to the main entrance from U.S. Highway 211 to the headquarters maintenance area.

Effective date. -- This regulation will become effective December 1, 1973.

Robert R. Jacobsen  
Superintendent  
Shenandoah National Park

RECEIVED  
1915



I HEREBY CERTIFY THAT THIS MAP WAS PREPARED UNDER MY SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 12/19/15 TO W. SIGNATURE *A. H. Bell*  
 NAME A. H. BELL  
 TITLE ASST. CHIEF SURVEYOR & PLAIN  
 VA. DEPT. OF HIGHWAYS

THIS MAP IS APPROVED AND IS ACCEPTED FOR RECORD.  
 NEWTON B. DRURY  
 DIRECTOR, NATIONAL PARK SERVICE

DATE 12/13/15 TO W. SIGNATURE *C. K. Simmers*  
 NAME C. K. SIMMERS  
 TITLE CHIEF OF WAY ENGINEER

MARKED TO INDICATE PROPOSED R/W  
 9/7/16  
 UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 NATIONAL PARK SERVICE  
 MAR OF LANDS ACQUIRED FOR  
 THE BLUERIDGE PARKWAY  
 PREPARED BY VIRGINIA DEPARTMENT OF HIGHWAYS  
 AUGUSTA COUNTY, VIRGINIA  
 SCALE 1 IN. = 100 FT. DATE MAP COMPLETED  
 FROM SURVEY STATION 28 + 40 TO SURVEY STATION 62 + 20

**Dooms – Bremo Rebuild Project**

**Attachment D**

**Typical Structure Diagrams**

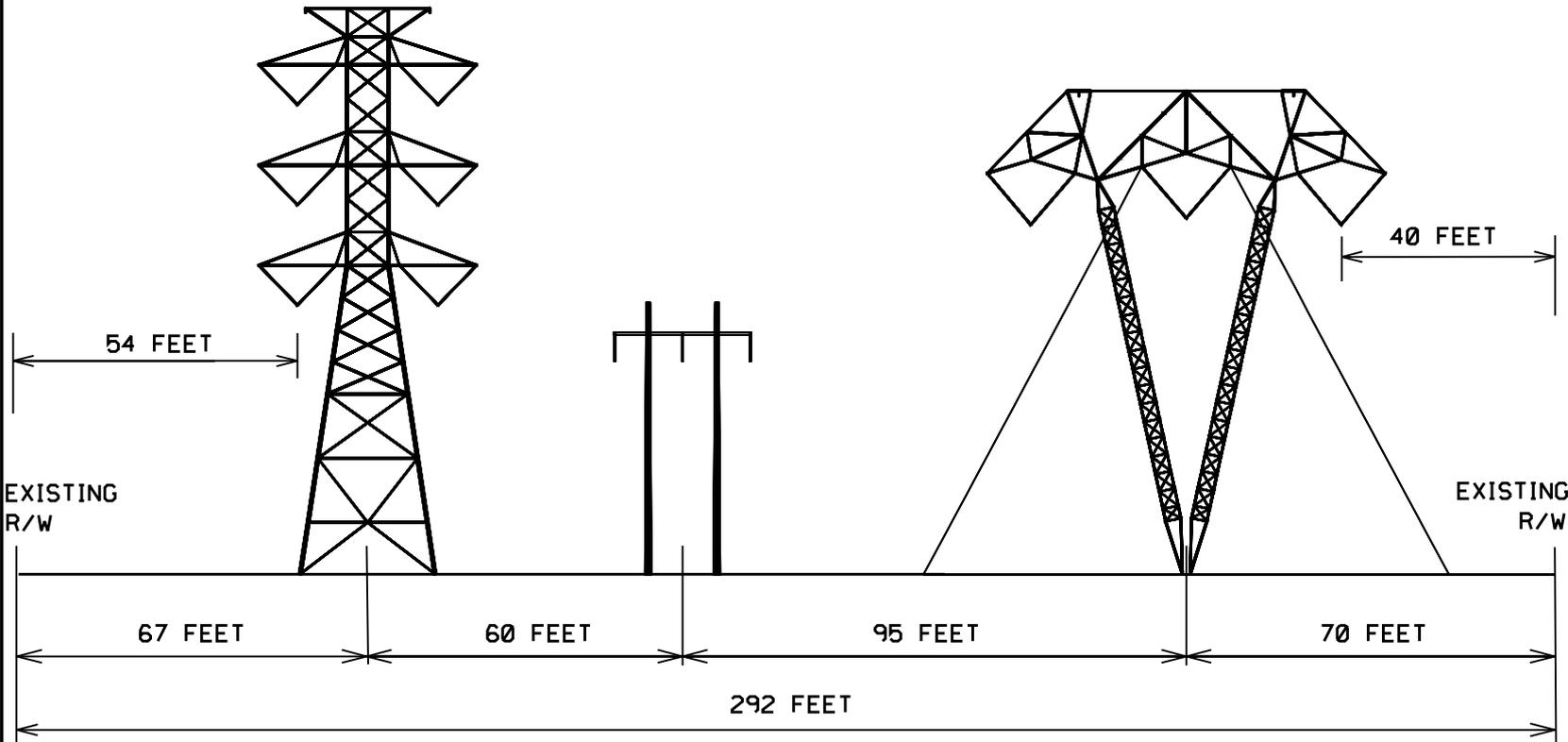
STR. #39/346 - 333

PRELIMINARY

EXISTING  
230KV CIRCUIT  
(LINE #233 & #291)

EXISTING  
115KV CIRCUIT  
(LINE #39)

EXISTING  
500KV CIRCUIT  
(LINE #534)



EXISTING CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD BREMO SUBSTATION

	EXISTING 230KV CIRCUITS (LINE #233 & #291)	EXISTING 115KV CIRCUIT (LINE #39)	EXISTING 500KV CIRCUIT (LINE #534)
TYPE OF STRUCTURE:	LATTICE TOWER	WOOD H-FRAME	LATTICE TOWER
FOUNDATION :	CONCRETE	DIRECT BURIED	CONCRETE
APPROXIMATE AVERAGE HEIGHT:	114 FEET	56 FEET	96 FEET
WIDTH AT CROSSARM:	42 FEET	27.5 FEET	77 FEET
WIDTH AT BASE:	26 FEET	15 FEET	1.5 FEET
APPROX. AVERAGE SPAN LENGTH:	892 FEET	833 FEET	981 FEET
CONDUCTOR TYPE:	2-545 ACAR	477 ACSR	2-2049.5 AAAC
RIGHT OF WAY WIDTH:	292 FEET	292 FEET	292 FEET
APPROXIMATE LENGTH OF LINE :	2.05 MILES	2.05 MILES	2.05 MILES

\$DGN\$SPEC\$

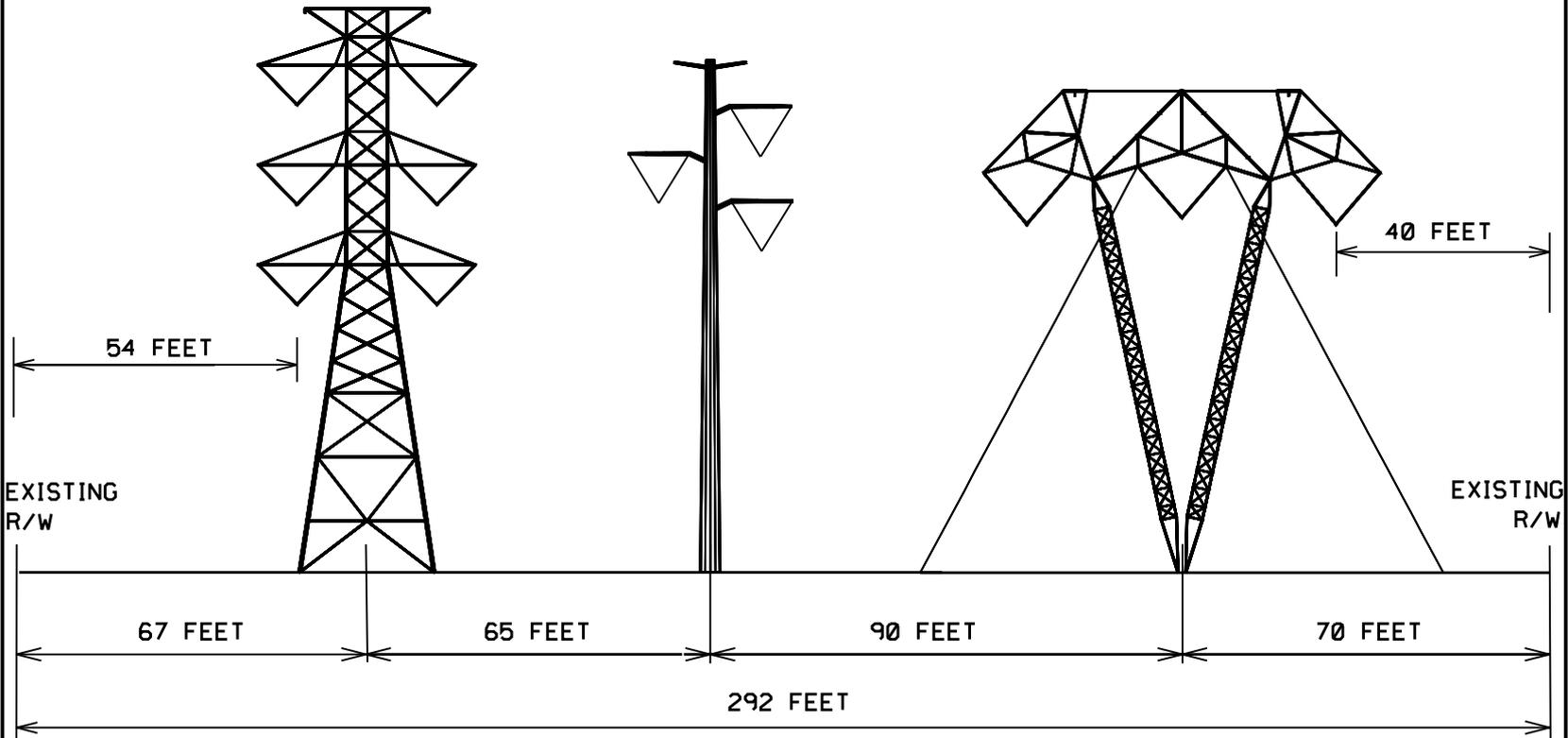
STR. #39/346 - 333

PRELIMINARY

EXISTING  
230KV CIRCUIT  
(LINE #233 & #291)

PROPOSED  
230KV CIRCUIT  
(LINE #2139)

EXISTING  
500KV CIRCUIT  
(LINE #534)



PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD BREMO SUBSTATION

	EXISTING 230KV CIRCUITS (LINE #233 & #291)	PROPOSED 230KV CIRCUIT (LINE #2139)	EXISTING 500KV CIRCUIT (LINE #534)
TYPE OF STRUCTURE:	LATTICE TOWER	STEEL POLE	LATTICE TOWER
FOUNDATION :	CONCRETE	CONCRETE	CONCRETE
APPROXIMATE AVERAGE HEIGHT:	114 FEET	100 FEET	96 FEET
WIDTH AT CROSSARM:	42 FEET	32 FEET	77 FEET
WIDTH AT BASE:	26 FEET	4 FEET	1.5 FEET
APPROX. AVERAGE SPAN LENGTH:	892 FEET	892 FEET	981 FEET
CONDUCTOR TYPE:	2-545 ACAR	2-636 ACSR	2-2049.5 AAAC
RIGHT OF WAY WIDTH:	292 FEET	215 FEET	292 FEET
APPROXIMATE LENGTH OF LINE :	2.05 MILES	2.05 MILES	2.05 MILES

**Dooms – Bremo Rebuild Project**

**Attachment E**

***Dominion's Erosion and Sedimentation Control Specifications***



**DOMINION SPECIFICATION TE VEP 8000**  
**GENERAL EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS**  
**FOR THE CONSTRUCTION AND MAINTENANCE OF**  
**ELECTRIC TRANSMISSION LINES**

**TE VEP 8000-11-00**

**EROSION AND**  
**SEDIMENTATION**  
**CONTROL**

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**General Erosion and Sedimentation Control Specification  
For  
Construction and Maintenance of Electric Transmission Lines**

**A. PURPOSE**

The intent of this document is to establish general specifications for the control of erosion and sedimentation as a result of land disturbing activities performed during the construction and maintenance of electric transmission lines. While these controls may not be applicable to the existing exemptions (i.e. individual service connections, disturbed areas of less than 10,000 square feet west of I-95, disturbed areas less than 2,500 square feet east of I-95 and installation of electric poles) they will be utilized if site specific conditions warrant.

**B. TRANSMISSION LINE CONSTRUCTION OVERVIEW**

1. Overhead Transmission Lines

Transmission line right-of-ways are cleared to a specific width depending on the voltage of the line. Clearing of right-of-ways is performed by shear cutting with a shear dozer and by hand cutting with power saws. All brush, trees, and old stumps are cut at a maximum height of 3" above the ground. The right-of-way is not grubbed, thus leaving the root mass intact and the soil undisturbed. Structures that are placed on the right-of-way include wood, steel, or concrete poles and steel towers. Structures are either direct embedded or installed on concrete foundations.

2. Underground Transmission Lines

Underground transmission lines are placed in a trench excavated approximately 5 feet deep and backfilled with fluidized thermal backfill (slurry concrete mix), sand and native soil. The right-of-way is cleared similarly to the overhead transmission line except that a narrower right-of-way is acceptable because underground lines have tree clearance requirements only in the immediate vicinity of the trench and construction area.

3. Contractor Responsibility

The Contractor shall be responsible complying with the intent of this specification to provide erosion and sedimentation control both within and outside the limits of the right-of-way that he utilizes. The Contractor shall follow a policy of keeping land disturbing activities to a minimum consistent with good construction practices and long term environmental considerations. The Contractor shall be responsible for temporary stabilization of all areas disturbed during construction activities until final rehabilitation is complete.

#### 4. Dominion Responsibility

The Erosion and Sediment Control (ESC) plan shall be included in all transmission construction specifications and Dominion shall assure that the contractor is aware of their responsibility prior to starting any construction activities by covering this specification during the pre-construction meeting. Dominion shall provide quality assurance for the ESC plan as well as guidance, as needed, for implementation of ESC measures on all projects.

#### 5. Dominion Construction Coordinator

Each Dominion construction project shall have a Construction Coordinator designated to serve as on site quality assurance for Dominion. The Construction Coordinator shall be trained and certified by the Virginia Department of Conservation & Recreation "Responsible Land Disturber" program. The Coordinator, or his qualified designee, shall work with the contractor to identify need, in accordance with the ESC Specification and assure that all measures are implemented prior to any construction. The Coordinator shall also assure that all maintenance and rehabilitation activities are performed in accordance with this specification.

Where land disturbance activities are required and a site specific erosion and sedimentation control (ESC) plan is warranted, a notebook containing the ESC plans and inspection reports shall be completed, maintained and made available on-site for review upon request by any local or state agency representative.

The notebook shall contain, at a minimum: a project summary including key contact information, a copy of the Dominion standard erosion and sedimentation control specification TE VEP 8000, initial plans showing the right-of-way, road crossings, and existing features, plan sheets showing limits of land disturbance and proposed stabilization measures, seeding schedules and inspection reports.

The initial plan required for the notebook can be the transmission line plan and profile drawings with sensitive areas labeled as referenced in section D.

For overhead transmission projects, typical structure and access road plans have been developed for use as plan sheets. These plans show an estimated footprint of disturbance, general stabilization measures, reference notes and an installation/ maintenance schedule. The Construction Coordinator is responsible for adding specific measures to the typical plans as needed for site stabilization.

The Certified Responsible Land Disturber shall provide for and document inspections at the following frequency: during or immediately following initial installation of erosion and sediment controls, at least once in every two-week period, within 48 hours following any runoff producing storm event, and at the completion of the project.

### C. TRANSMISSION LINE MAINTENANCE OVERVIEW

Many of the activities associated with the maintenance of Electric Transmission Lines mirror the activities of Transmission Line Construction. Dominion intends to employ the same applicable guidelines for erosion and sedimentation controls for Transmission Line Maintenance as for Transmission Line Construction.

### D. EROSION AND SEDIMENTATION CONTROLS

Dominion employs the following erosion and sedimentation controls during soil disturbing activities associated with the construction of transmission lines. At a minimum, **sensitive areas to be protected are identified on the transmission line plan and profile drawings.** The majority of the transmission line construction is for overhead lines with soil disturbing activities limited to construction of temporary access roads and the installation of structures. The most visible activity, right-of-way clearing, is not considered a soil disturbing activity as it is essentially timbering with the root mass and soil left undisturbed.

All measures for the purpose of containing sediment are to be installed prior to up-slope land disturbing activities occurring.

The intent of this specification is to assure that the Minimum Standards set forth in the 2003 Virginia Erosion and Sedimentation Control Regulations are implemented during the construction of the Dominion transmission project. The following is a brief synopsis of the ESC Minimum Standards:

- MS-1**    **Stabilization of Denuded Areas** Within seven days permanent or temporary soil stabilization shall be applied to denuded areas that may remain dormant for longer than 30.
- MS-2**    **Stabilization of Soil Stockpiles** During construction, soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures.
- MS-3**    **Establishment of Permanent Vegetation** A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.
- MS-4**    **Timing and Stabilization of Sediment Trapping Measures** Sediment traps, and all other sediment barriers shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
- MS-5**    **Stabilization of Sediment Trapping Measures** Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.

- MS-6** **Sediment Basins** Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap of basin. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres. Sediment basins are not typically used because disturbed and drainage areas are usually not greater than three acres.
- MS-7** **Design, Construction and Stabilization of Cut and Fill Slopes** Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion.
- MS-8** **Concentrated Runoff Contained in Adequate Temporary or Permanent Channel** Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure. Not applicable for transmission facilities.
- MS-9** **Adequate Drainage Protection From Water Seeps** Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.
- MS-10** **Storm Sewer Inlet Protection** All storm sewer inlets that are made operable during construction shall be protected against sediment-laden water.
- MS-11** **Stabilization of On-Site Waterways and Outlets** Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection shall be installed. On site stormwater conveyance channels are not installed on transmission line construction projects.
- MS-12** **Work in Live Watercourse** When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction.
- MS-13** **Crossing Live Watercourse** When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
- MS-14** **Comply With All Applicable Federal, State, and Local Regulations for Work in Live Watercourses.**
- MS-15** **Stabilization of Watercourse Bed and Banks** The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

**MS-16 Underground Utility Construction** At a minimum, underground utility lines be installed using the following standards:

- a) No more than 500 linear feet of trench may be opened at one time.
- b) Excavated material shall be placed on the uphill side of trenches.
- c) Effluent from dewatering operations shall be appropriately filtered and discharged in a manner that does not adversely affect flowing streams or off-site property.
- d) Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
- e) Stabilization shall be accomplished in accordance with appropriate regulations.
- f) Applicable safety regulations shall be complied with.

**MS-17 Construction Access Road** Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface.

**MS-18 Disposition of Temporary Measures** All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or when temporary measures are no longer needed.

**MS-19 Stormwater Management for Controlling of Off-Site Erosion** Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow runoff.

**Virginia Uniform Coding System for Erosion and Sedimentation Control Practices**

The following are the more commonly used practices used for transmission line construction. Details for those practices marked \* are included in Appendix A. Refer to the 1992 Virginia Erosion and Sedimentation Control Handbook (VESCH) for full details.

<u>Practice</u>	<u>Title</u>	<u>Key</u>
*3.02	Temporary Stone Construction Entrance.....	CE
3.03	Construction Road Stabilization.....	CRS
*3.04	Straw Bale Barrier.....	STB
*3.05	Silt Fence.....	SF
3.06	Bush Barrier.....	BB
*3.07	Storm Drain Inlet Protection.....	IP
*3.09	Temporary Diversion Dike.....	DD
*3.10	Temporary Fill Diversion.....	FD
*3.11	Temporary Right-Of-Way Diversion.....	RWD
*3.12	Diversion.....	DV
3.13	Temporary Sedimentation Trap.....	ST
3.14	Temporary Sediment Basin.....	SB
3.15	Temporary Slope Drain.....	TSD

3.16	Paved Flume.....	PF
3.17	Stormwater Conveyance Channel.....	SCC
*3.18	Outlet Protection.....	OP
*3.19	Riprap.....	RR
*3.20	Rock Check Dams.....	CD
3.21	Level Spreader.....	LS
3.22	Vegetative Streambank Stabilization.....	VSS
3.23	Structural Streambank Stabilization.....	SSS
*3.24	Temporary Vehicular Stream Crossing.....	SC
*3.25	Utility Stream Crossing.....	USC
*3.26	Dewatering Structure.....	DS
3.28	Subsurface Drain.....	SD
3.29	Surface Roughening.....	SR
3.31	Temporary Seeding.....	TS
3.32	Permanent Seeding.....	PS
3.33	Sodding.....	SO
3.34	Bermudagrass & Zoysiagrass Est. ....	BE/ZE
3.35	Mulching.....	MU
*3.36	Soil Stabilization Blankets & Matting.....	B/M
3.37	Trees, Shrubs, Vines & Ground Cover.....	VEG
3.38	Tree Preservation & Protection.....	TP

The Contractor shall take every reasonable precaution, including the use of temporary and permanent measures, throughout the project to minimize the effects of erosion and sedimentation on site and adjacent streams. The following are specific erosion and sedimentation controls to be used:

1. Temporary Access Roads

Controls to be utilized with the placement of temporary roads shall include, but not be limited to terraces, cutouts, diversions, mulching, the installation of non-erosion outlets, straw bales, brush barriers, cross drains, and water bars.

- a) Roads will be built along the shortest practical route.
- b) The road edges shall be graded to the lowest possible angle and mulched or temporary seeded within 7 days after final grade is reached.
- c) Roads exceeding a 5% grade within 200-foot lengths shall have adequate water bars, terraces or diversions spaced at 50-foot intervals. The low side of the water bars will be protected with straw bales.
- d) Wherever construction roads access paved public roads temporary gravel construction entrance pads shall be installed to prevent mud tracking by construction vehicles.

- e) Pipe culverts will be installed only in areas where the road is crossing a defined drainage way. At low areas the road shall remain as close to grade as possible and shall be stabilized in accordance with VESCH Std. & Spec. 3.03 to trap or minimize erosion. A pipe culvert installed in a defined drainage way shall be installed as if the road were crossing a flowing watercourse. See "f" below.
- f) When a flowing watercourse must be crossed, temporary stream vehicular stream crossings shall be established in accordance with VESCH, Std. & Spec. 3.24. When culverts are used as a temporary crossing, the culvert must be sized to carry a 10-year frequency storm without appreciably altering the stream flow characteristics, using the specific watershed of the stream being crossed. If the crossing will be in place for less than 14 days, it shall be sized to handle a 2-year frequency storm and Table 3.24-A may be used to size the culvert. The contractor building the temporary access is responsible for sizing the culverts.

## 2. Construction Adjacent to Streams for Overhead Transmission Line

Trees and brush located within 100 feet of a stream or ditch with running water shall be cleared by hand. All material 3 inches in diameter and above shall be sawed or cut and removed from the buffer. Material less than 3 inches in diameter will be left undisturbed, and care shall be taken to prevent the disturbance of soil within the 100-foot buffer zone around streams and ditches. Creeks and streams shall be crossed at right angles in one location on the right-of-way using culverts, temporary bridges, or large aggregate stone. All work related to stream crossings shall be in accordance with VESCH Std. & Spec. 3.24. The Contractor shall remove all materials from temporary stream crossings at the completion of the project.

With appropriate permits, brush and logs may be placed across the right-of-way in areas of permanently standing water. This material shall be cut in short lengths and placed in such a manner to enable construction equipment to use the right-of-way. No logs, trimmings, or brush of any description shall be left in ditches, creeks, or drains. Dominion's Construction Coordinator shall designate areas where this procedure is to be used.

When construction activities in streams require a U.S. Army Corps permit, Virginia Marine Resources Commission approval, or approval from the Wetlands Board, Dominion will coordinate or obtain such permits.

## 3. Construction Associated with Structure Foundations and Structure Erection

Before work begins at any site, the Contractor and the Construction Coordinator will evaluate the site with respect to earth disturbance and erosion potential. Sensitive areas to be protected are identified on the transmission line plan and profile drawings. The Coordinator shall generate and implement a written site-specific plan as outlined in section B.5.

The Contractor shall be responsible for stabilizing the work site before moving to the next location. Areas damaged during foundation construction and structural erection activities shall be restored to the approximate original grade and protected by installing erosion and sedimentation control measures specified by the Construction Coordinator. All temporary erosion and sedimentation controls shall remain in place until permanent stabilization is achieved.

#### 4. Construction Associated with Underground Transmission Lines

The primary effort to lessen impacts associated with underground construction is to minimize construction time. During construction all spoils shall be placed on the uphill side of the trench or hauled away to a spoil storage site. The spoils site shall be controlled with either silt fence or straw bale barriers. Should it be necessary to place spoils on the downhill side of the trench, the Construction Coordinator may require the installation of silt fences or straw bales. Where construction occurs in the vicinity of streams or storm drains, the Construction Coordinator may require that these drainage areas to be protected with silt fences or straw bales. Whenever stormwater runoff is pumped out of the trench during construction, this water shall be filtered through straw bales or filter fabric before it enters any drainage system or drain. When installing the underground pipe across a stream, the contractor shall follow the VESCH practice 3.25. All stream protection measures covered in the VESCH shall be followed for an underground stream crossing.

#### 5. Erosion Control Device Maintenance

It is the responsibility of the Contractor to maintain all erosion control devices. Upon inspection, if an erosion control device is damaged or if the capacity is approaching its limit, proper steps of repair or maintenance shall be taken. The Construction Coordinator shall direct the contractor to take the necessary steps should he feel that conditions warrant repair or maintenance.

#### E. SITE REHABILITATION

Site rehabilitation on a transmission project is a continuous operation. Each contractor performing work on the project is responsible for temporary stabilization of all soil disturbing activities performed. The temporary measures, including straw bales, silt fence, mulching, stone and temporary seeding shall be applied to denuded areas within 7 days. If a portion of transmission line is to be left dormant for more than a year the Construction Coordinator shall require permanent restoration of that section of line.

Permanent site rehabilitation shall be performed after all work on a section of the transmission line is completed or may be left dormant for more than a year. The rehabilitation of the right of way shall include the stabilizing and permanent seeding of transmission construction roads, tower sites, stockpiles and all other areas disturbed as a result of the various construction activities. All temporary sedimentation and erosion control measures shall be disposed of within 30 days after final stabilization is achieved. Stabilization will be considered final when the vegetative cover is uniform and mature enough to survive and will inhibit erosion.

The contractor responsible for permanent rehabilitation shall, at a minimum, establish permanent vegetative cover on all denuded areas not otherwise permanently stabilized following the specific measures below in conjunction with applicable VESCH Std. & Spec.

1. Soil Preparation

- a) All bare soil areas resulting from construction, including construction roads and tower sites, shall be worked by disking to a depth of three inches. Discing shall be perpendicular to the line of slope when possible. Water bars or other drainage facilities, if destroyed, must be repaired.
- b) In lieu of a soil test, apply 500 pounds of 10-20-10 fertilizer per acre, and lime at a minimum rate of two tons per acre to insure successful germination and growth. The application shall be made prior to discing to work the fertilizer and lime into the soil. The fertilizer must be applied uniformly over the bare soil and shall not be applied more than four weeks before seeding.
- c) Cross drains may be installed on all construction roads on and off the right-of-way as directed by the Coordinator, Transmission Construction or Forestry Representative and are installed as a part of the cleanup activity.

Cross drains are to be located as follows:

<u>Percent Slope</u>	<u>Distance Between Cross Drain (Ft)</u>
2 .....	240
5 .....	140
10 .....	80
15 .....	60
20 .....	45
25 .....	40
30 .....	35
40 .....	30

Cross drains shall be constructed to carry the amount of excess surface water anticipated at each location. Cross drains are not to be constructed at right angles to the direction of slope, but are angled to carry the excess water with the direction of the slope.

## 2. Site Stabilization

In order to stabilize disturbed areas and establish permanent vegetation the following seeding program will be implemented:

- a. Seeding shall be done with a tractor-mounted cyclone-type or no till seeder. Hydroseeding may be considered.
- b. After fertilizing and discing, or if no till equipment is used, the applicable grass mixtures shall be uniformly applied at the rates specified in standard specification 3.32 of the "Virginia Erosion and Sediment Control Handbook".
- c. Seeding shall not be done in July or August or from November to spring thaw when weather conditions prevent proper operation. Weather conditions (soil moisture) may permit alterations in this requirement.
- d. When grading is complete, seeding and mulching shall be performed. Mulch will be used on hillside and in cross drains.
- e. Permanent or temporary soil stabilization will be applied to denuded areas within 7 days after final grade is reached on any portion of the site. Soil stabilization will also be applied within 7 days to denuded areas which may not be at final grade but will remain undisturbed for longer than 30 days.

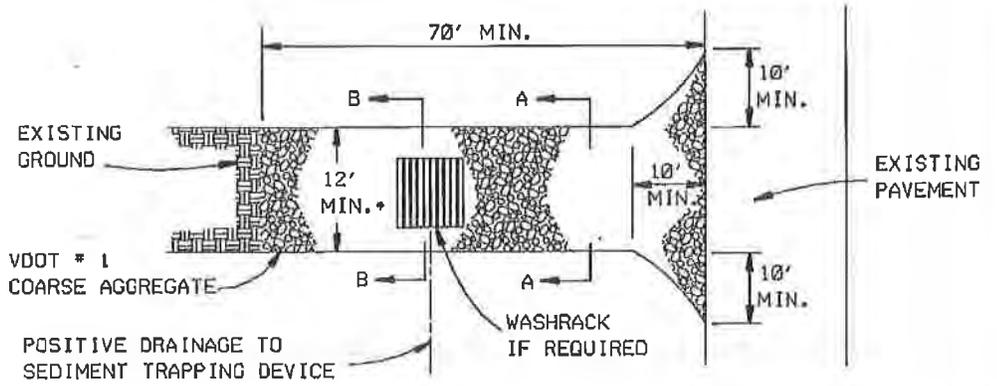
**APPENDIX A**

The following Construction details are taken from the Virginia Erosion and Sediment Control Handbook,(VESCH) Third Edition. Specific details and guidelines are covered more completely in Chapter 3 of the VESCH.

The Contractor shall go to the VESCH to reference practices that are covered in the specification but not listed below.

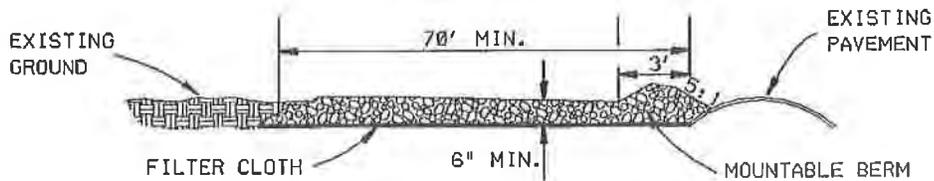
<b><u>Practice</u></b>	<b><u>Title</u></b>	<b><u>Key</u></b>
3.02	Temporary Stone Construction Entrance.....	CE
3.04	Straw Bale Barrier.....	STB
3.05	Silt Fence .....	SF
3.07	Storm Drain Inlet Protection.....	IP
3.09	Temporary Diversion Dike .....	DD
3.10	Temporary Fill Diversion .....	FD
3.11	Temporary Right-Of-Way Diversion.....	RWD
3.12	Diversion.....	DV
3.18	Outlet Protection .....	OP
3.19	RipRap .....	RR
3.20	Rock Check Dams.....	CD
3.24	Temporary Vehicular Stream Crossing .....	SC
3.25	Utility Stream Crossing.....	USC
3.26	Dewatering Structure.....	DW
3.36	Soil Stabilization Blankets & Matting.....	B/M

## STONE CONSTRUCTION ENTRANCE - 3.02

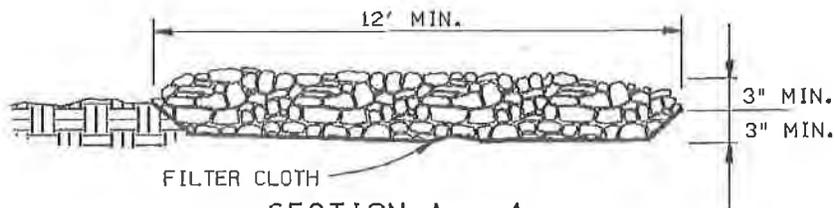


▪ MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

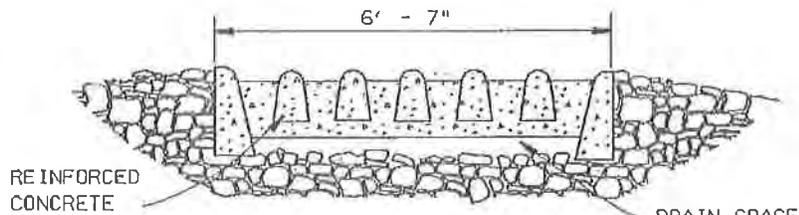
PLAN VIEW



ELEVATION



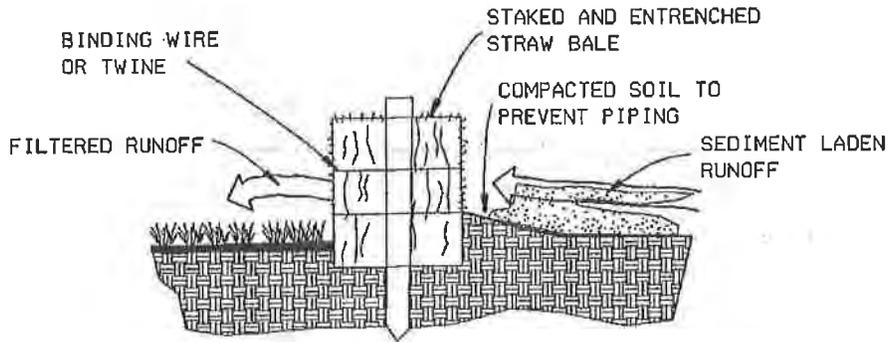
SECTION A - A



SECTION B - B

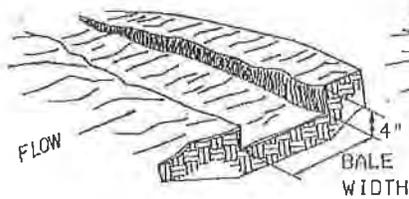
cna302.dgn

## STRAW BALE BARRIER - 3.04

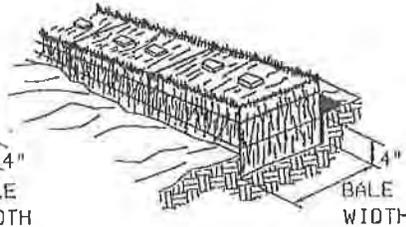


PROPERLY INSTALLED STRAW BALE  
CROSS SECTION

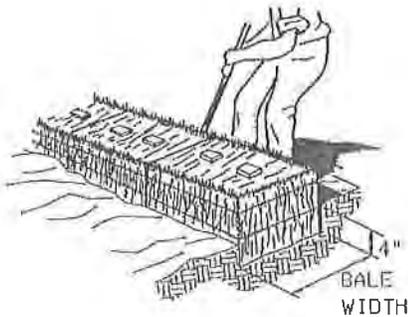
1. EXCAVATE THE TRENCH



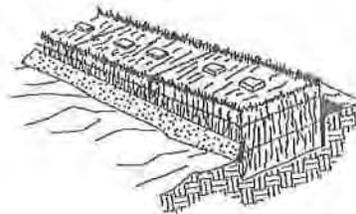
2. PLACE AND STAKE STRAW BALES



3. WEDGE LOOSE STRAW BETWEEN BALES



4. BACKFILL AND COMPACT THE EXCAVATED SOIL

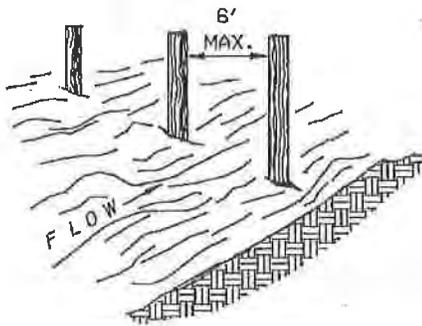


CONSTRUCTION OF STRAW BALE BARRIER

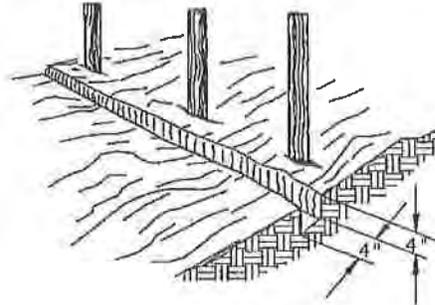
## SILT FENCE - 3.05

### CONSTRUCTION OF SILT FENCE

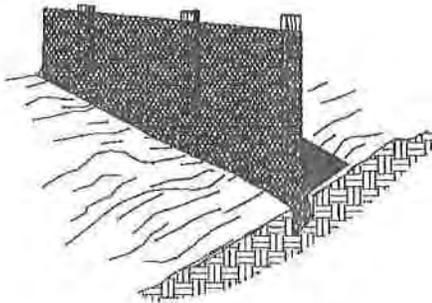
1. SET THE STAKES



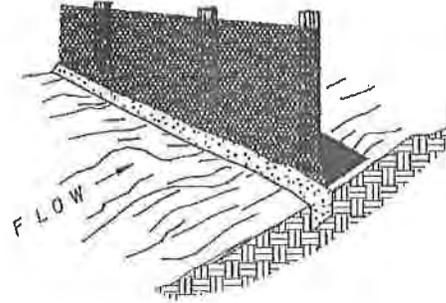
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO TRENCH.

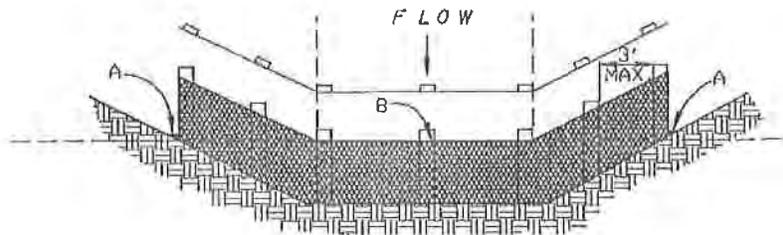


4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



### SHEET FLOW INSTALLATION

(PERSPECTIVE VIEW)

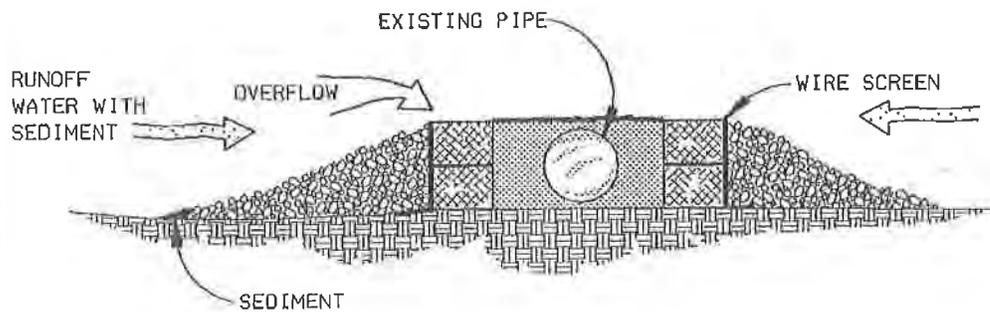
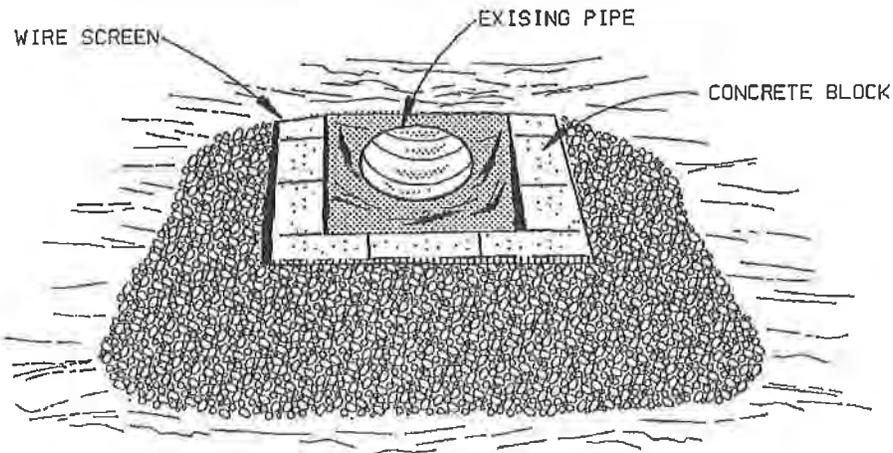


POINTS A SHOULD BE HIGHER THAN POINT B

### DRAINAGEWAY INSTALLATION

(ELEVATION)

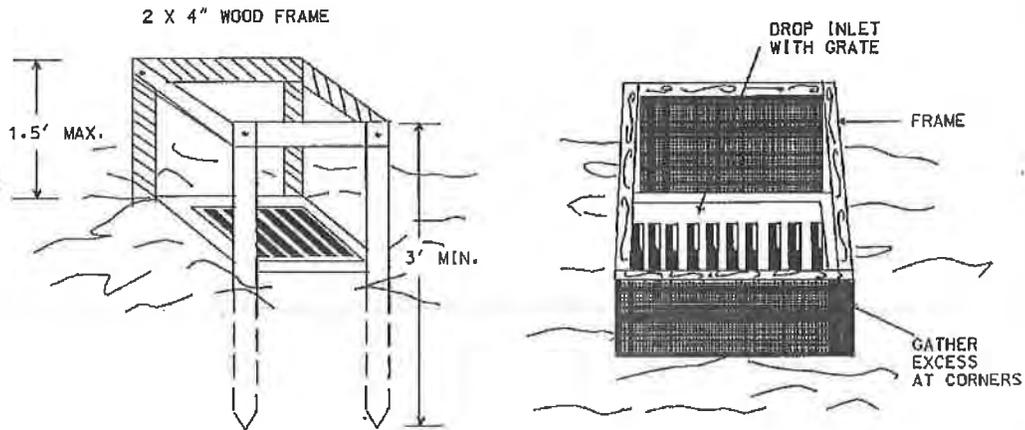
## INLET PIPE PROTECTION - 3.07



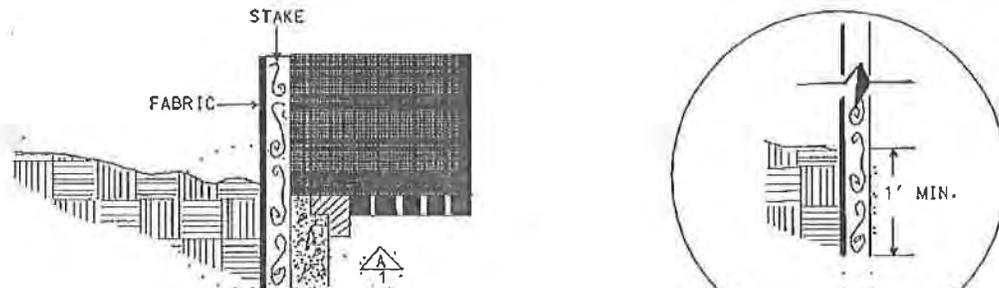
### BLOCK AND GRAVEL PIPE INLET SEDIMENT FILTER

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED, AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

## SILT FENCE DROP INLET PROTECTION - 3.07-1



PERSPECTIVE VIEWS



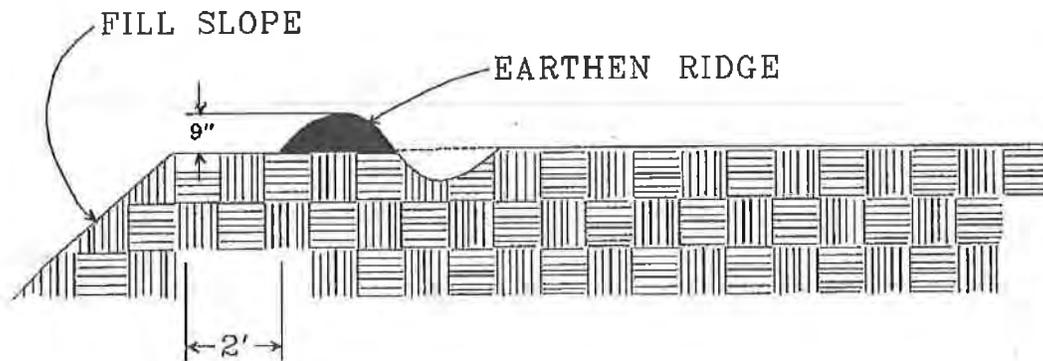
ELEVATION OF STAKE AND FABRIC ORIENTATION

DETAIL A

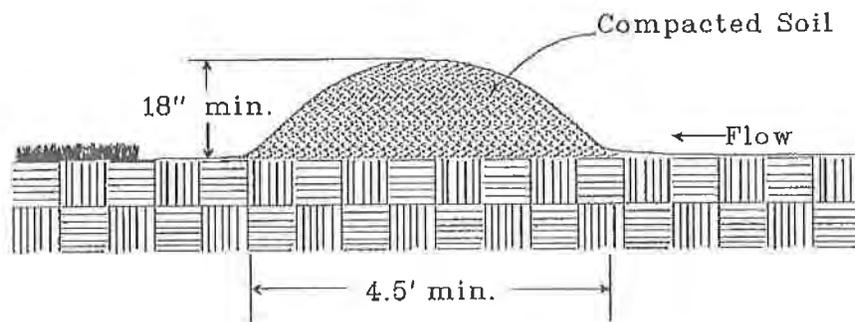
### SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

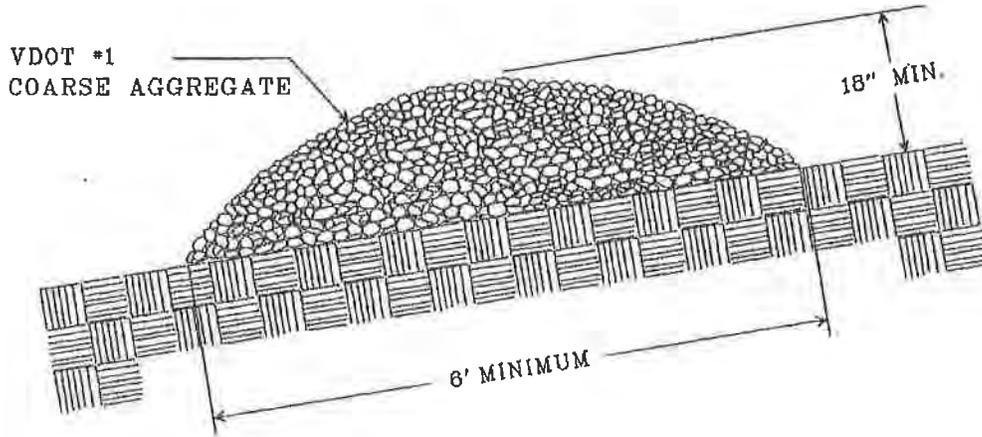
### TEMPORARY FILL DIVERSION - 3.10



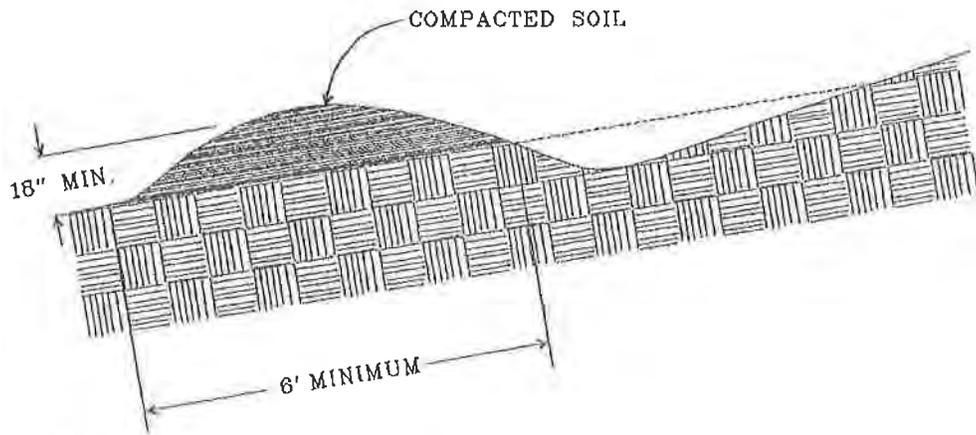
### TEMPORARY DIVERSION DIKE - 3.09



TEMPORARY RIGHT-OF-WAY DIVERSIONS - 3.11

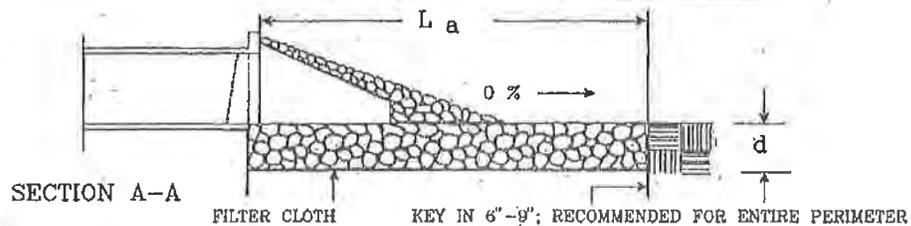
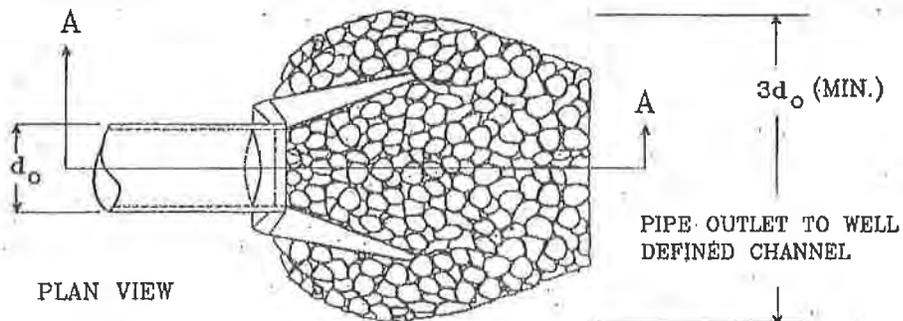
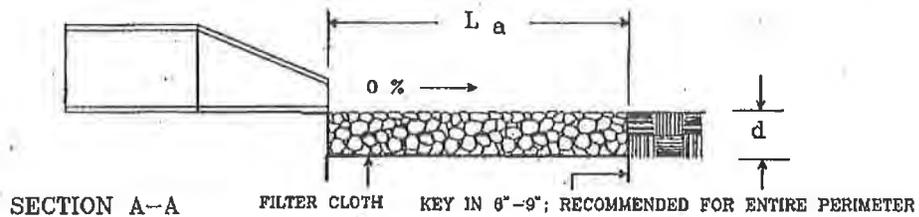
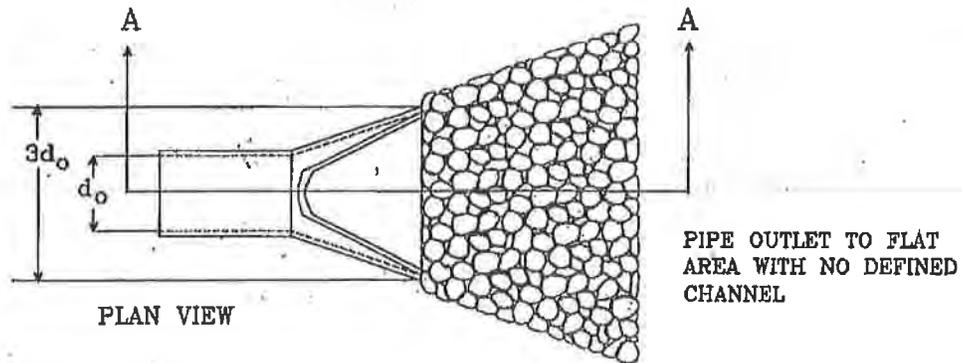


TYPICAL GRAVEL STRUCTURE



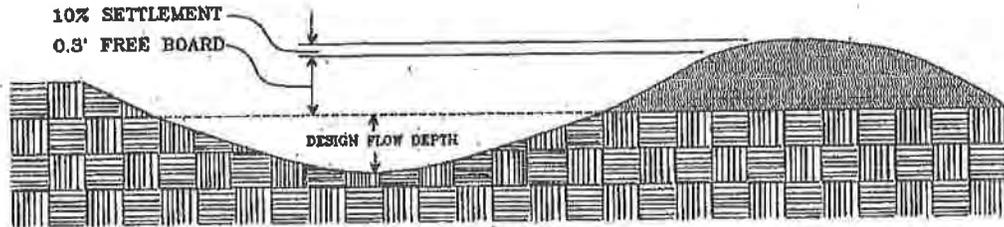
TYPICAL EARTHEN STRUCTURE

## PIPE OUTLET CONDITIONS 3.12

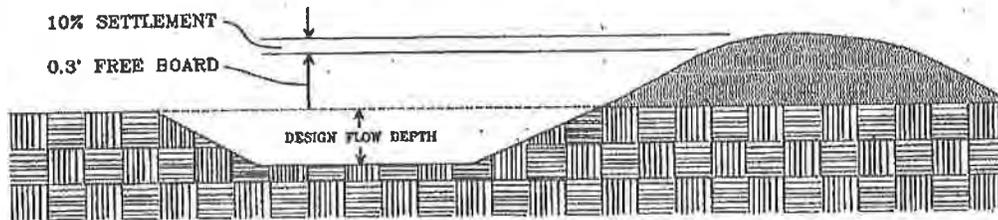


- NOTES: 1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.  
 2.  $L_a$  IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.  
 3.  $d = 1.5$  TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

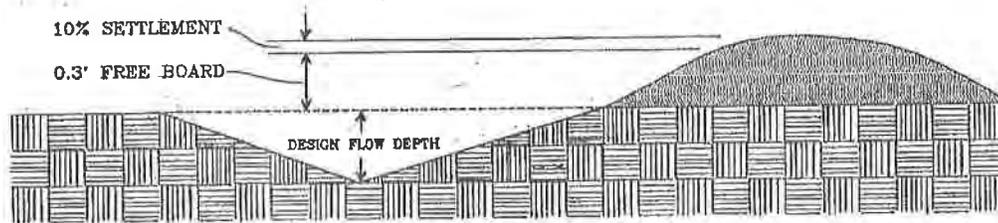
## DIVERSION 3.18



TYPICAL PARABOLIC DIVERSION



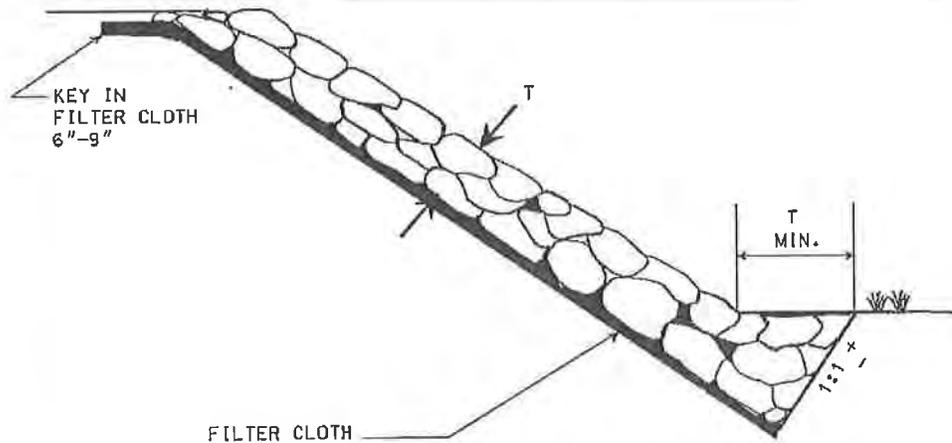
TYPICAL TRAPEZOIDAL DIVERSION



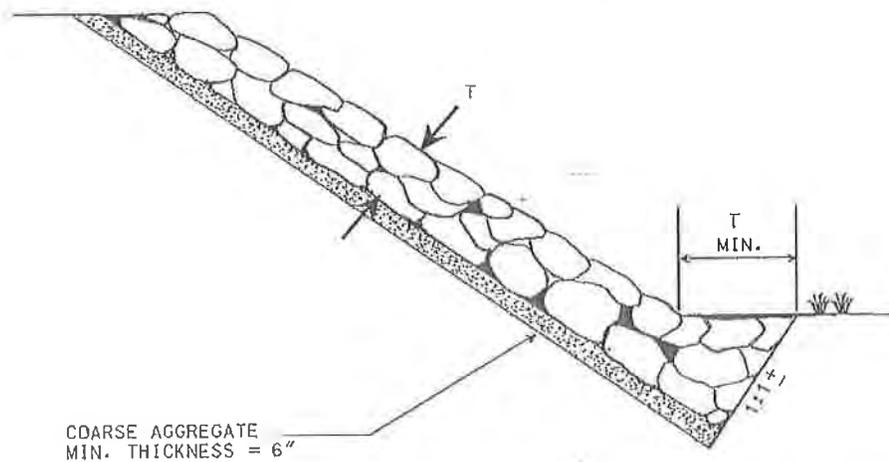
TYPICAL VEE-SHAPED DIVERSION

*TOE REQUIREMENTS FOR  
BANK STABILIZATION - 3.19*

FILTER CLOTH UNDERLINER  
(PREFERRED)

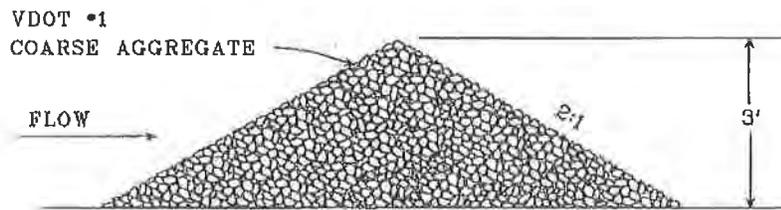
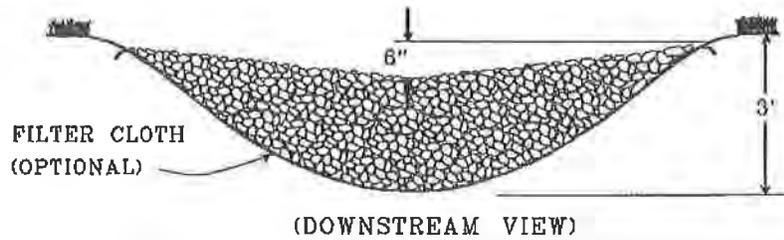


GRANULAR FILTER

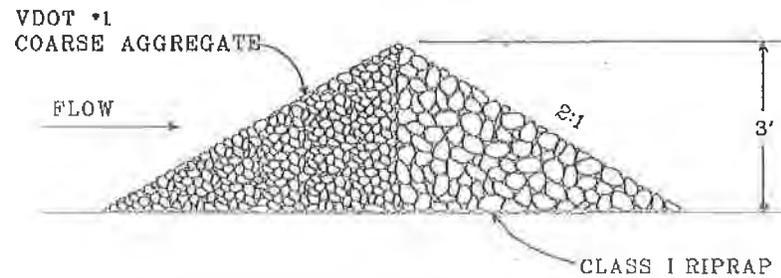
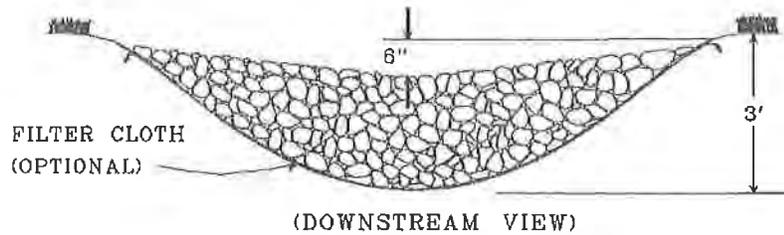


## ROCK CHECK DAM - 3.20

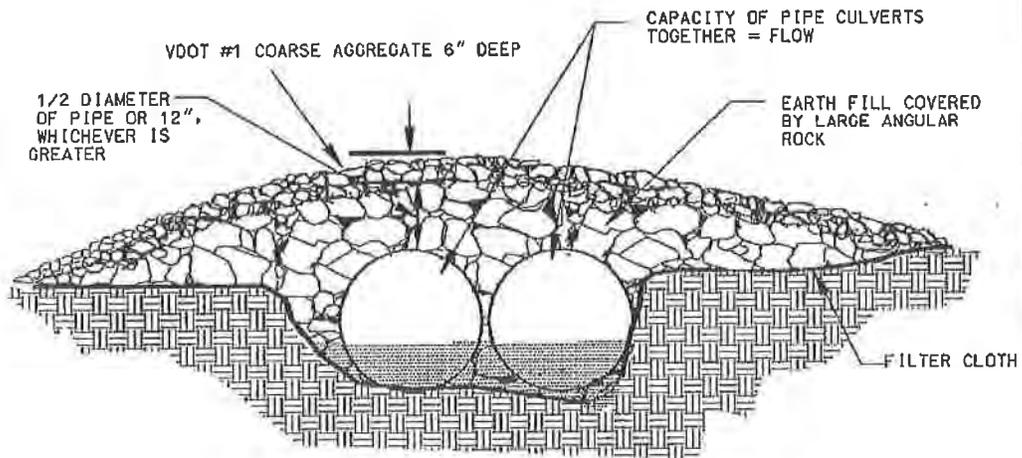
2 ACRES OR LESS OF DRAINAGE AREA:



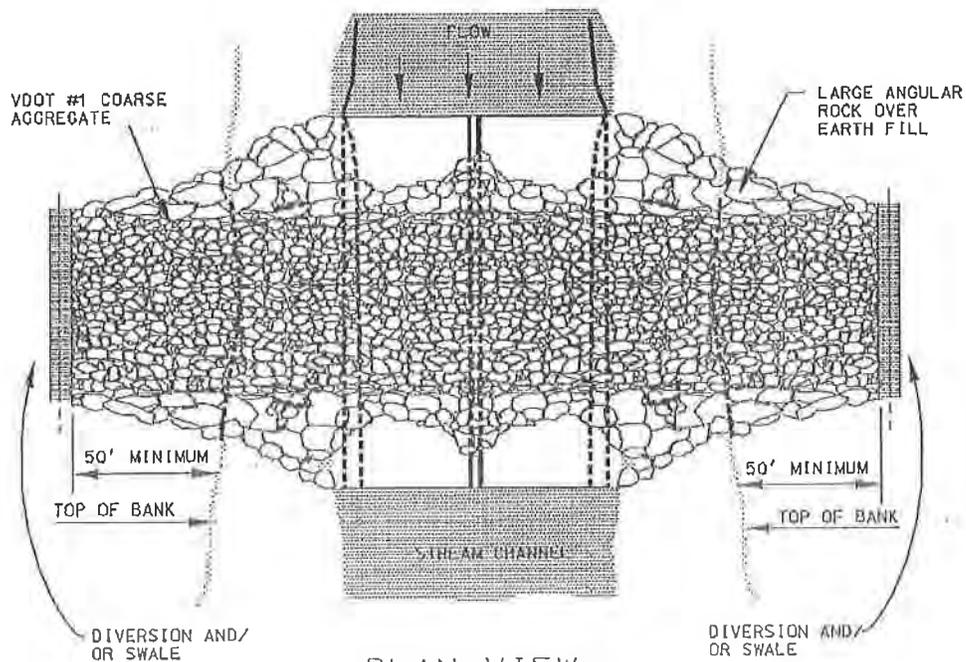
2-10 ACRES OF DRAINAGE AREA:



# TEMPORARY CULVERT CROSSING - 3.24

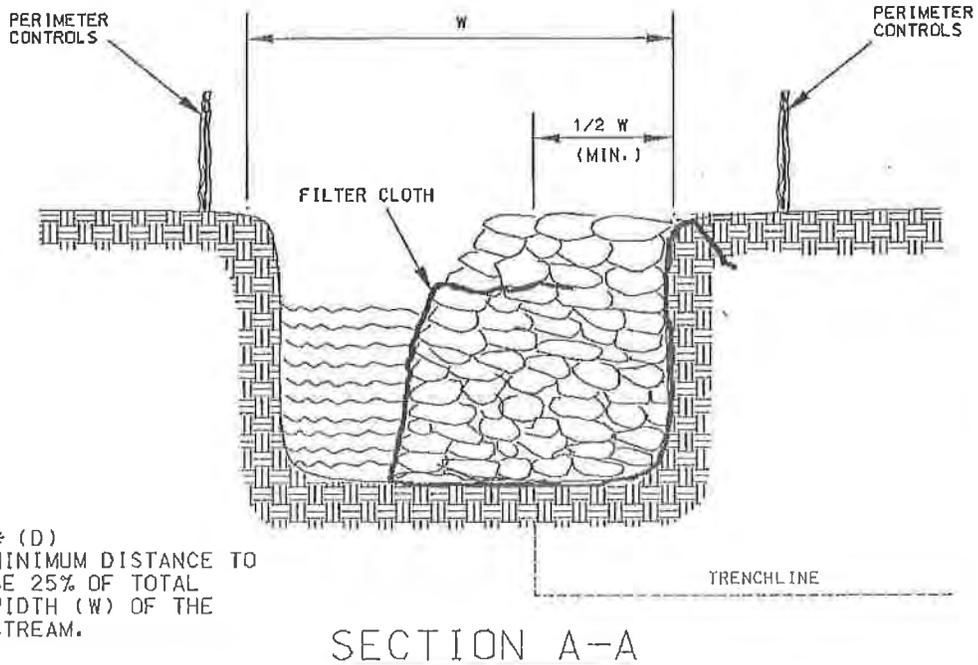
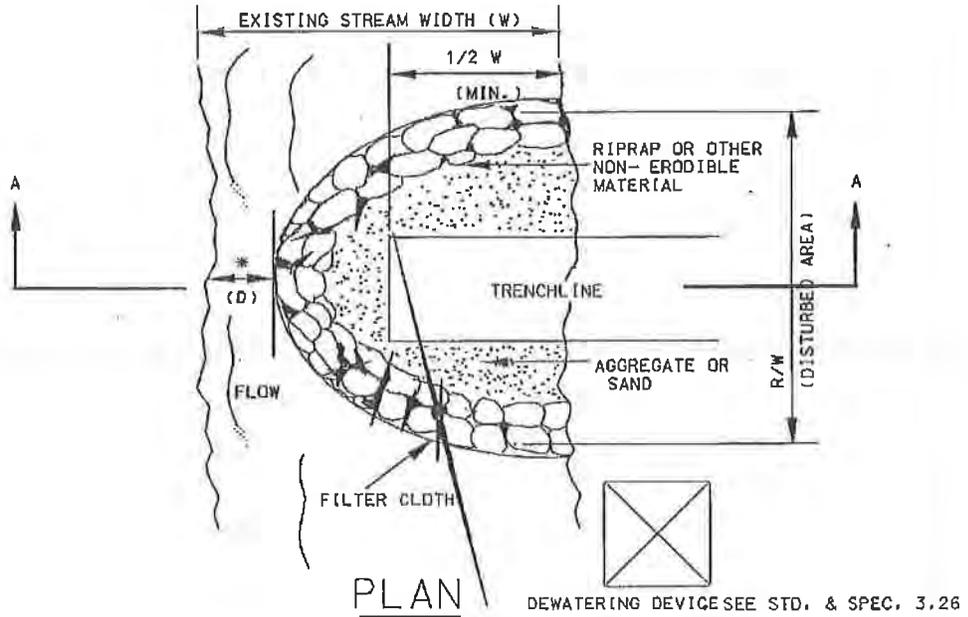


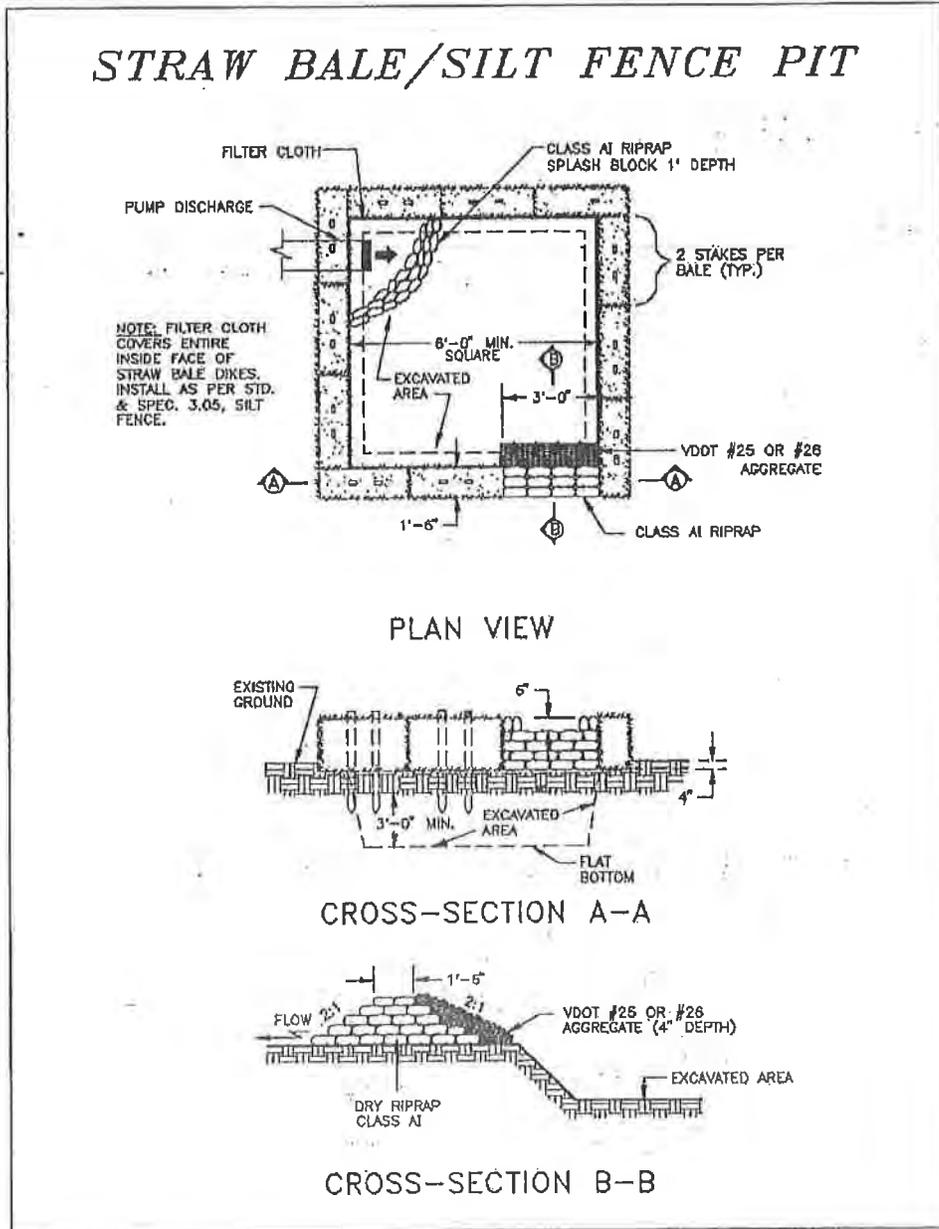
ELEVATION



PLAN VIEW

# COFFERDAM CROSSING - 3.25



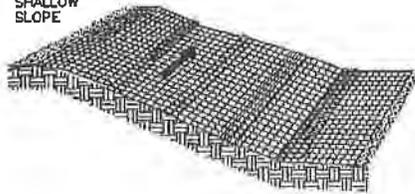


Source: Va. DSWC

Plate 3.26-3

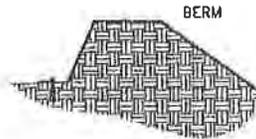
## TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)

SHALLOW  
SLOPE

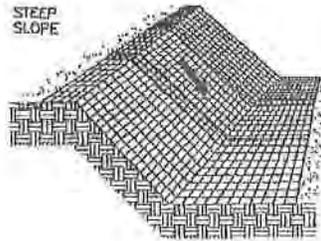


ON SHALLOW SLOPES, STRIPS OF NETTING PROTECTIVE COVERINGS MAY BE APPLIED ACROSS THE SLOPE.

WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE MATERIAL OVER THE BERM AND ANCHOR IT BEHIND THE BERM.

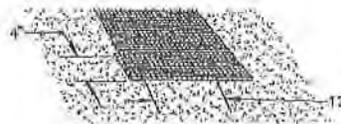


STEEP  
SLOPE

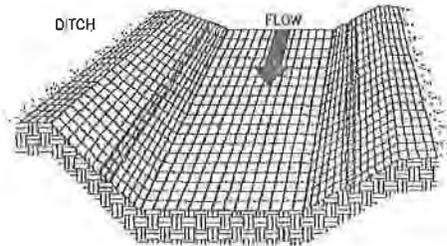


ON STEEP SLOPES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY.

BRING MATERIAL DOWN TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION. TURN THE END UNDER 4" AND STAPLE AT 12" INTERVALS.



DITCH



IN DITCHES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS AS REQUIRED. AVOID JOINING MATERIAL IN THE CENTER OF THE DITCH IF AT ALL POSSIBLE.

Source: Adapted from Ludlow Products Brochure

Plate 3.36-1

**ORIGINAL:**

**Submitted by:** D. L. Clarke  
**Approved by:** M. S. Allen

**Date:** 02-03-04  
**Date:** 02-03-04

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**REVISION:**

**Submitted by:** D. L. Clarke  
**Approved by:** M. S. Allen

**Date:** 03/15/06  
**Date:** 03/15/06

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**REVISION:**

**Submitted by:** D. L. Clarke  
**Approved by:** M. S. Allen

**Date:** 01/29/07  
**Date:** 01/29/07

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**REVISION:**

**Submitted by:** D. L. Clarke  
**Approved by:** M. S. Allen

**Date:** 11/14/07  
**Date:** 11/14/07

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**REVISION:**

**Submitted by:** J. R. Klotz  
**Approved by:** M. S. Allen

**Date:** 10/30/08  
**Date:** 10/30/08

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