DOMINION ENERGY TRANSMISSION, INC.

Guidelines for Construction Activities on Rights-of-Way
And in the Vicinity of Dominion Energy Transmission, Inc. (DETI), Pipelines

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1. **NOTIFICATION**

A. Preliminary notification of construction plans should be made as early as possible in the planning process, allowing for accurate location of DETI facilities in the field. In many locations, DETI utilizes the design stage One Call System to initiate this request. DETI will field locate the horizontal alignment of pipelines when requested. When the vertical alignment is required, it will be the responsibility of the requesting party to determine the elevation by excavation with a DETI inspector present. If requested, DETI will determine the depth of cover and will bill the requesting party for all costs incurred. Pipeline depth may be determined utilizing a blunt T-bar only when the pipe is to be exposed. The pipe must be examined and any coating damage repaired and noted in the TFIR report before backfilling. Blunt T-bar probing without excavation to allow repairs is not allowed because this may result in damage to the pipelines protective coating. The preferred method to determine a pipelines depth is hand or vacuum excavation. The field location of any DETI facilities should then be accurately included in development / construction drawings. DETI will not be responsible for others’ inaccuracies in transferring those locations into surveys for development / construction drawings. DETI recommends the use of a licensed PLS (Professional Land Surveyor).

Dominion Energy Transmission, Inc. (DETI) shall be notified at least three (3) business days prior to any earth disturbance activities across, on, or within one hundred (100) feet of its facilities. Facilities shall include, but not be limited to, rights-of-way (ROW), fee properties, easements, pipelines, M&R buildings, and valve sites. No equipment shall enter onto DETI Facilities unless a DETI representative is present on location.

An earth disturbance activity is any activity that will result in a disturbance to the surface or subsurface of the earth. It includes but is not limited to excavations formed by cutting, grading, digging or scooping, boring, tunneling, strip mining operations, timber operations, blasting, construction of structures, demolition work, traversing easement with heavy equipment, etc.

B. No earth disturbance activity shall occur in the vicinity or within the ROW of DETI facilities until:

Proper notification has been made to the appropriate one call system, (various state one call system numbers are listed below) and a DETI inspector is on site to monitor the excavation activities.
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<table>
<thead>
<tr>
<th>State</th>
<th>One Call System</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maryland</td>
<td>Miss Utility</td>
<td>1-800-257-7777</td>
</tr>
<tr>
<td>New York</td>
<td>Dig Safely New York</td>
<td>1-800-962-7962</td>
</tr>
<tr>
<td>Ohio</td>
<td>Ohio Utilities Protection Service</td>
<td>1-800-362-2764</td>
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<tr>
<td>Pennsylvania</td>
<td>Pennsylvania One Call System</td>
<td>1-800-242-1776</td>
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<tr>
<td>Virginia</td>
<td>Virginia Utility Protection Service</td>
<td>1-800-552-7001</td>
</tr>
<tr>
<td>West Virginia</td>
<td>Miss Utility of West Virginia</td>
<td>1-800-245-4848</td>
</tr>
<tr>
<td>Federal Common Ground</td>
<td>One Call System</td>
<td>811</td>
</tr>
</tbody>
</table>

2. **DRAWINGS FOR PROPOSED CONSTRUCTION OR MAINTENANCE**

All proposed construction or maintenance in the vicinity of DETI’s facilities require the submittal of plan and profile drawings for review and approval by DETI. Three (3) copies of these drawings must be submitted to DETI’s local office prior to the beginning of any proposed construction or maintenance. All drawings must show, in detail, all DETI facilities and other landmarks that will allow DETI to determine the effects of the proposed construction or maintenance activity on its facilities. (Local office addresses and contact information attached)

3. **DETI EASEMENT / REIMBURSEMENT AGREEMENTS**

A. DETI will determine if an Encroachment Agreement will be required for any proposed construction or maintenance within DETI’s ROW. The agreement, prepared by DETI, will outline the responsibilities, conditions and liabilities of each party. This agreement shall be fully executed and in DETI’s possession prior to any work within the ROW.

B. DETI will determine if a Reimbursement Agreement will be required for any proposed construction or maintenance within DETI’s ROW. This agreement, prepared by DETI, will outline the reimbursement procedure for necessary and appropriate preliminary engineering and actual field inspection work to be completed by DETI. This fully executed agreement, including a check made payable to “Dominion Energy Transmission, Inc.” for the estimated cost of DETI's services, shall be in DETI’s possession prior to the start of preliminary engineering, field inspection services, or any work within the ROW.

4. **INSURANCE COVERAGE**

DETI, at its discretion, may request evidence of comprehensive general liability insurance coverage in the minimum amount of $1,000,000 prior to any construction or maintenance activity in the vicinity of its facilities.
5. CROSSING PIPELINES WITH HEAVY EQUIPMENT

To protect DETI’s facilities from external loading, DETI will perform a field survey and an engineering study to determine the effects of any proposed activity over its pipelines. Mats, timber bridges or other protective crossing method materials deemed necessary and appropriate by DETI must be placed over DETI’s facilities for the duration of any loading. Protective crossing method materials, including appropriate erosion and sedimentation controls, shall be purchased, placed, and removed at no cost to DETI. Dominion Energy Transmission’s ROW shall be restored to its original condition, including proper vegetative cover and removal of erosion and sedimentation controls, upon completion of work.

6. EXCAVATION, CUTS OR FILL IN THE VICINITY OF DETI’S PIPELINES

A. A DETI representative MUST be on location prior to construction activity or use of heavy equipment of any description within DETI’s right-of-way. In order to ensure public safety and to protect its pipeline facilities, DETI personnel must be informed of proposed activity and is to remain on-site to observe all excavation activity occurring within (or that has the potential to be within) ten (10) feet from the outside wall of its pipelines. This policy extends to all foreign line crossings and easement encroachments where excavation activities may result in coating or pipeline damage that is detrimental to the integrity of DETI’s pipelines. Direct observation of an excavation or foreign line crossing requires that DETI personnel remain on-site during the construction activity to ensure that the integrity of the pipeline is not compromised. Personnel shall locate the pipeline prior to commencement of construction activities and document their course of action on TFIR (Transmission Field Inspection Report) and respond appropriately to the One Call Ticket where applicable. Personnel shall communicate the potential hazards of working near a natural gas pipeline with the third party (i.e., contractor, developer, or homeowner, etc.) performing the work. Once construction work commences and is located within ten (10) feet of DETI’s pipeline, DETI personnel must remain on-site and be able to address any potential concerns by the excavating party.

B. For excavations, crossings and other construction activities that are greater than ten (10) feet from the outside wall of the pipeline, DETI personnel shall accurately locate and mark the pipeline prior to commencement of construction activities, but are not required to remain on-site for the duration of construction. Personnel will document their course of action on TFIR (Transmission Field Inspection Report) and respond appropriately to the One Call Ticket where applicable. DETI personnel shall periodically check the progress of the construction activity and verify it does not go beyond the initial construction boundaries. DETI personnel shall document revisits on the original TFIR. If the construction activity begins to encroach within ten (10)
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feet of DETI’s facilities, the requirements of Section 6A above shall apply and DETI personnel shall remain on-site and able to observe all construction activity until the project is safely completed. If it appears that excavation activities were conducted outside of the initial confines of the proposed activity and encroach within ten (10) feet of DETI’s pipeline, DETI personnel shall immediately stop all construction activity and notify their supervisor. DETI shall promptly investigate the potential impact of the encroachment. If deemed necessary, DETI shall excavate the area around the pipeline to ensure its integrity has not been jeopardized and may seek reimbursement of costs from the third party violating the encroachment authorization.

C. No heavy equipment of any type will be permitted to work directly over DETI’s pipelines without prior written approval from DETI. If approved, a limited number of crossings will be designated. Construction safety fencing is required to delineate ROW from construction area for large developmental projects.

D. All excavation within twenty-four (24) inches of any DETI pipeline will be performed by hand until the pipeline is fully exposed. At the discretion of DETI’s onsite representative, excavators may be required to hand dig beginning at a distance greater than twenty-four (24) inches. Once the pipeline is exposed by hand, the excavation company or Developer / Contractor may excavate by mechanical means from the test hole parallel to and on either side of the pipeline. The use of a backing bar on the excavator bucket teeth to protect pipe from potential damage, is recommended. The side cutters on the bucket shall be removed. Parallel excavation and the use of backing bars are at the discretion of the DETI inspector on site. If the complete circumference of the pipe must be exposed, as in a recoat project, excavator bucket may be utilized to push materials from under pipe once parallel excavation is completed, at the discretion of the DETI inspector. A thorough inspection of the pipe and coating must be made once exposed. DETI personnel must complete a Transmission Field Inspection Report (TFIR), and repair any coating damaged by excavation activity before backfilling the pipeline. Any damage resulting from Developer / Contractor negligence will be repaired at their expense.

NOTE: Excavation directly over the pipe with mechanical equipment should be avoided if at all possible, and is permitted only at the discretion of the DETI inspector on site. Under no circumstances shall a DETI Inspector allow an excavator to reach across a pipeline and ditch perpendicular to and toward DETI’s pipeline(s). Should perpendicular excavation be allowed, it must always be away from DETI’s facilities.

E. All excavations within the ROW shall be backfilled with a maximum of twelve (12) inch lifts using mechanical compaction equipment. Compaction equal to the existing undisturbed soil must be achieved.

F. No grade cuts will be permitted within DETI’s ROW unless agreed to in advance and in writing by DETI and with DETI’s representative on location. If appropriate, DETI may require that an engineering study be performed to ensure
that the lateral stability of DETI’s pipelines is not affected. The cost of this study shall be borne by the Developer/Contractor.

G. When boring under DETI pipelines, Developer / Contractor shall expose sixty (60) inches below the bottom of each pipeline to ensure maintaining appropriate clearance. Developer / Contractor will be required to verify proper clearance prior to the bore crossing beneath pipeline. This can be accomplished by excavation on the side of the pipeline closest to the bore pit. Plan and profile drawings are required for all proposed borings.

H. No fill is permitted over DETI’s pipelines unless agreed to in advance and in writing by DETI. If appropriate, DETI will perform an engineering study to ensure that the external loading and cathodic protection systems of DETI’s pipelines are not adversely affected. The cost of this study shall be borne by Developer / Contractor.

I. A minimum of thirty-six (36) inches of clean backfill over the top of DETI’s pipelines should be maintained. For landscaping or grading purposes, seventy-two (72) inches is permissible. The minimum earth cover over pipelines at all street and road crossings, including the adjacent ditch line, shall be thirty-six (36) inches. Thirty-six (36) inches of minimum cover shall be maintained at stream and river crossings.

J. No trash or debris shall be placed in any excavation or left in or on the ROW.

7. **ABOVEGROUND STRUCTURES**

In order to provide for adequate maintenance and operation of DETI’s facilities, no aboveground appurtenances or structures are to be located within DETI’s ROW. Unless otherwise specified in the easement, a minimum of twenty-five (25) feet of clearance on each side of the center of the pipeline should be maintained where permanent surface structures are being proposed. Likewise, when two or more pipelines share the same right of-way, structures should not be installed within twenty-five (25) feet of either outside pipeline. Permanent structures must be kept a minimum of one hundred (100) feet from natural gas wells unless otherwise specified in the easement. In the event the easement agreement contains the right for DETI to install additional pipelines, a minimum of twenty-five (25) feet of clearance must be maintained from the location of any possible future pipeline(s). The appurtenances and structures include, but are not limited to, the following: utility poles, steel towers, guy wires, other structures supporting aerial lines, satellite dishes, manholes, catch basins, utility pedestals, transformers, fire hydrants, utility sheds, buildings of any type, etc.

8. **PROPOSED PIPE AND UTILITY LINE CROSSINGS OR PARALLEL ENCROACHMENTS**
A. General Requirements

1. All underground utility lines should cross beneath DETI’s pipelines (if depth allows) and shall have a minimum of twenty-four (24) inches of vertical clearance. Despite any agreement to allow a foreign line to cross over or under DETI’s pipelines, the owner of the foreign line shall bear all costs of removing its line, if at any future date, DETI deems the removal or other accommodations necessary for the operation, maintenance or construction of DETI’s facilities.

2. All foreign lines shall cross DETI’s facilities at an angle of ninety (90) degrees, or as near as practicable thereto, but not less than forty-five (45) degrees. Buried utility lines must be identified with permanent aboveground markers where the lines enter and exit DETI’s ROW. It is the line owner’s responsibility to obtain any rights to install the markers, and to maintain the markers. Longitudinal occupancy of DETI’s ROW shall not be permitted.

3. No manholes, valves or other appurtenances shall be permitted within DETI’s ROW.

4. Vertical or horizontal bends are not permitted within DETI’s ROW for any utility line installed.

5. DETI’s facilities are cathodically protected. All other cathodically protected facilities that enter or cross DETI’s ROW must have test leads installed, at the crossing utilities’ expense. All necessary measures (coatings, electrical bonds, etc.) shall be taken to ensure that the proposed pipe or utility is adequately protected from potential interference effects. Any inquiries for cooperative testing should be directed to DETI’s local office.

6. All underground utilities (other than residential telephone, cable TV and 24 volt DC power lines) shall have plastic identification tape installed no closer than eighteen (18) inches above the line.

B. Water and Sewer Lines

All water and sewer lines shall be: (1) ductile iron pipe (adequately protected from DETI’s Cathodic Protection System), (2) plastic pipe installed in coated rigid steel casing (minimum of schedule 40) for the full width of the right-of-way, or (3) reinforced concrete pipe. No piping connections will be allowed within five (5) feet of any DETI line. A variation to this requirement needs to be reviewed and approved in writing by the area field engineer.
C. Communication, Power or Combustible Material Lines

1. All buried telephone, television or data cables (other than residential telephone and cable TV) crossing DETI’s facilities shall be installed in either (1) coated rigid steel casing (minimum of schedule 40) or (2) PVC pipe (minimum of schedule 80) covered by a minimum of 6” of concrete for the full width of the right-of-way.

2. All buried fiber optic and electrical cables except 24-volt DC power lines (including single residential service drops) crossing DETI’s facilities shall be installed in either (1) coated rigid steel casing (minimum of schedule 40) or (2) PVC pipe (minimum of schedule 80) covered by a minimum of 6” of concrete for the full width of the ROW.

3. All buried residential telephone, television and 24-volt DC power lines shall be encased in plastic conduit for the full width of the ROW.

4. All buried plastic combustible material lines (including single residential service drops) crossing DETI’s facilities shall either be installed in (1) coated rigid steel casing (minimum of schedule 40) for the full width of the ROW or (2) PVC pipe (minimum of schedule 80) covered by a minimum of 6” of concrete for the full width of the ROW. The Area Engineer can approve the final casing design.

5. All buried steel combustible material lines crossing DETI’s facilities shall be coated with an industry standard cathodic protective coating for the full width of the ROW.

NOTE: Additional protection may be required in certain situations.

9. PROPOSED ROADS, STREETS AND COMMERCIAL DRIVEWAYS

A. Field surveys and engineering studies must be conducted for all roads, streets, driveways, etc. proposed to be constructed on DETI’s ROW. Reinforced concrete slabs or other protection required by DETI will be installed at no expense to DETI.

B. The minimum earth cover over DETI’s pipelines will be thirty-six (36) inches at all roads, highways, streets, etc. including adjacent ditch lines. In many cases, additional earthen cover will be required.

C. Roads and streets crossing over DETI’s pipelines shall cross at an angle of 90 degrees, or as near as possible thereto. All crossings must be over straight pipe
D. Vibratory rollers for compacting road sub-base shall be turned off at pipeline crossing to reduce potential coating damage.

E. A permanent pipeline marker, supplied by DETI, will be installed at all road crossings.

F. Paving of any type will necessitate an encroachment agreement. DETI will retain the right to cut all present and proposed paved areas for maintenance and operation of its facilities and for the construction of future facilities, and will have no responsibility for the restoration of the pavement, loss of use of the paved area, loss of access road across the paved area, or any other associated costs.

G. Access to the earth above each pipeline for leak detection (flame ionization) and cathodic protection surveys must be maintained.

10. **DISPOSAL SYSTEMS**

No septic tanks, leach fields, liquid disposal systems or hazardous waste disposal systems will be allowed on, to drain across or pool on DETI’s right-of-ways. This will include, but not be limited to, effluent from sewage disposal systems, the discharge of any hydrocarbon substance, the discharge or disposal of any regulated waste, or any other discharge that may prove damaging or corrosive to DETI’s facilities.

11. **IMPOUNDMENT OF WATER**

A. In order to provide for adequate operation and maintenance of DETI’s facilities, impoundment of water on DETI’s ROW is not permitted.

B. Temporary soil erosion and sediment control devices and storm water detention basins/traps are not permitted on DETI’s ROW unless agreed to in advance and in writing by DETI.

12. **BLASTING**

A. No explosive detonations will be permitted within two-hundred (200) feet of DETI’s facilities without (1) prior analysis and written approval from DETI and (2) DETI’s representative on site during blasting to determine if the detonation stresses will be detrimental to the safety of DETI’s facilities. Information required to complete DETI’s “Blasting Data Sheet” must be submitted to DETI for evaluation and approval at least two (2) weeks prior to the proposed date of
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blasting activity. The blasting Developer/Contractor will be required to verify, by signature, the proposed blasting plan.

B. When blasting is used in the vicinity of DETI's facilities, the peak particle velocity (PPV) measurement at the facility shall not exceed two (2) inches per second. When multiple charges are used, the minimum time between detonations shall be eight (8) milliseconds. The seismic shock from any blasting affecting DETI's facilities shall be monitored and recorded at the facility by a seismograph to be furnished by the blasting contractor. Copies of any such readings shall be provided to DETI when requested at no cost to DETI.

13. LANDSCAPING

A. Trees are not permitted on DETI’s right-of-way.

B. No large, deep-rooted shrubs are permitted on DETI’s right-of-way.

C. On properties subject to easement agreements with undefined right of way widths, trees must be kept a minimum of twenty-five (25) feet from the edge of the outermost pipelines.

D. With prior approval from DETI, the planting of lawn and shallow-rooted, low growing shrubs (less than five (5) feet in height at maturity) will be permitted provided that the shrubs are located at least five (5) feet from the edge of each pipeline, thus allowing clearance over each pipeline for periodic inspections of DETI’s facilities.

E. Under no circumstances will mechanical equipment, of any type, be permitted in the planting of shrubs.

F. DETI reserves the right to cut and/or remove landscape plantings placed on DETI’s right-of-way as required in the operation, inspection and maintenance of its pipeline facilities; further, DETI assumes no responsibility for any cost involved in the replacement of said cut and/or removed landscape plantings.

G. DETI will determine if an Encroachment Agreement, outlining the responsibilities, conditions and liabilities of each party, will be required. If it is determined that an encroachment agreement is required, the agreement must be fully executed and in DETI’s possession prior to the commencement of any planting.
14. **PIPELINE MARKERS**

Developer/Contractor will ensure that all temporary and permanent pipeline markers installed by DETI are protected and maintained at all times during construction. Any permanent markers damaged or removed by the Developer/Contractor will be replaced by DETI at the Developer/Contractor’s expense. No work will be allowed to commence until, in the opinion of DETI, sufficient pipeline markers are in place.

15. **RIGHT OF INGRESS AND EGRESS**

DETI must have unrestricted right of ingress and egress to all of its facilities at all times. DETI, at its discretion, may require that new fences have a twelve (12) foot wide gate installed by the Developer/Contractor where the fence crosses the ROW. The gate shall be installed as to minimize vehicular and equipment travel over DETI’s facilities.

16. **COMPENSATION FOR DAMAGES**

DETI shall be fully and completely compensated for any damage to its facilities resulting from the acts of third parties who are working in the vicinity of DETI’s facilities with or without DETI’s consent.

17. **INDEMNIFICATION**

DETI shall be indemnified from and against all claims, losses, demands, damages, causes of action, suits, and liability of every type and character, including all expenses of litigation, court costs, and attorneys fees, for injury to or death of any person, or for damage to any property, arising out of or in connection with work undertaken by or on behalf of the Developer/Contractor in the vicinity of DETI’s facilities.

18. **STATEMENT REGARDING EXISTING RIGHTS**

Nothing contained herein shall be construed to convey, waive, or subordinate any of DETI’s existing rights whatsoever.

19. **STATEMENT REGARDING REQUIREMENTS FOR CONSTRUCTION OR MAINTENANCE**

Some construction and maintenance activities are reviewed and approved at one point in time, and it may be a long period of time before the actual work takes place. Therefore, all construction and maintenance activities are subject to DETI’s requirements in effect at
the time the work actually takes place. In addition, the requirements described in this document represent the minimum acceptable standards regarding third party construction and maintenance activities in the vicinity of DETI’s facilities. DETI’s review of these proposed activities may require more stringent protective measures.

20. **WAIVER OF REQUIREMENTS BY DETI**

All provisions contained within these guidelines are required and must be followed by the Developer/Contractor unless DETI provides a written waiver, in advance, of any of these requirements.
DEVELOPER / CONTRACTOR VERIFICATION

This form serves as formal documentation that I have met with a DETI representative concerning the One-Call notice number ______________. Once DETI personnel have approved plans for earth disturbance, any modifications to the approved plan must be re-approved before any earth is disturbed except as originally approved by DETI.

During the course of this meeting the following information was presented and explained to me to allow a full understanding of the below mentioned information. *(Please mark the box indicating understanding.)*

- Guidelines for Construction Activities
- Specific notification contacts for coordinating pipeline line encroachments
- Emergency notification numbers
- The pipeline(s) in question were marked by the DETI representative.
- I was made aware that there are separate Dominion Energy companies that operate in the one-call system. Therefore separate notices may be distributed to DETI’s interstate transmission pipeline operations, DETI’s gathering and production operations, and Dominion Energy Hope with separate identification codes. I understand that all members marked on the one call must have responded before excavation activity can begin.

I hereby acknowledge that I have reviewed the aforementioned information and agree to abide by the terms of the guidelines.

Person Performing Excavation Activity:

(Please print) ___________________________ Date: __________

Signature ___________________________

Title/Position ___________________________

Address ___________________________ Daytime Phone ___________________________

Company you are Representing ___________________________

DETI Representative:

Please Print ___________________________ Date: __________

Signature ___________________________

Facility ID ___________________________ GPS Coordinates ___________________________

24-Hour Emergency Number
1-888-264-8240