



DPZ Office Use only:
 Case No WP-21-061
 Date Filed 12/4/20

ALTERNATIVE COMPLIANCE COMMENT FORM

Date: 12/4/2020

Comment Due Date: ASAP

DPZ File No: WP-21-061

Plan Name: Columbia Gas Urgent Repair

This request for comments has been distributed to the following Departments.

DPZ – Comprehensive & Community Planning	DPZ – Development Engineering Division
DPZ – Research Division	DPZ – Resource Conservation Division
Department of Fire and Rescue Services	Recreation and Parks
Department of Inspections, Licenses & Permits	Office of Transportation
DPW, Real Estate Services & Directors Office	Office of Community Sustainability
<u>Health Department</u>	Soil Conservation District
Public School System	State Highway Administration

COMMENTS:

The Health Dept. does not oppose this proposal.
 'Approved!'

Robert Bricker 12/4/2020
 Print Name Date



Howard County Maryland
Department of Planning and Zoning
 3430 Courthouse Drive, Ellicott City, MD 21043

(410) 313-2350

DPZ Office Use only:

File No.

Date Filed

ALTERNATIVE COMPLIANCE APPLICATION

Site Description: Recent testing of Columbia Gas underground natural gas pipeline (Line MB) discovered three anomalies within seven feet of each other on this property. Line MB is located within an existing Columbia Gas Easement under an agricultural field.

Subdivision Name/Property Identification: Columbia Gas Transmission, LLC

Location of property: 13110 Greenberry Lane, Clarksville, MD 21029

Existing Use: Agricultural **Proposed Use:** Agricultural

Tax Map: 0028 **Grid:** 0009 **Parcel No:** 0048 **Election District:** 07

Zoning District: 28 **Total site area:** 0.31 AC

Please list all previously submitted or currently active plans on file with the County (subdivision plans, Board of Appeals petitions, alternative compliance petitions, etc.). If no previous plans have been submitted, please provide a brief history of the site and related information to the request:

No SDP on file. An SDP Waiver has been submitted for review and approval. The project site is located within an existing and maintained Columbia Gas Transmission natural gas pipeline easement.

In the area below, the petitioner shall enumerate the specific numerical section(s) from the Subdivision and Land Development Regulations for which an alternative compliance is being requested and provide a brief summary of the request. Please use the additional page if needed.

Section Reference No.	Brief Summary of Request
No. 16.155 (a)(1)(ii)(SDP)	1. Approval of a site development plans is required prior to issuance of Grading and Building Permits for non-residential development (which includes utility development).
No. 16.116 (a)(1) and (2) (Wetlands and Streams)	2. Grading and removal of vegetative cover is not permitted within 25 feet of any wetland. Grading and removal of vegetative cover is not permitted within 100 feet of a perennial stream bank for Use IV streams.

Section Reference No.	Brief Summary of Request

Signature of Property Owner: [Redacted] Date: [Redacted]

Signature of Petitioner Preparer: *Kristin J Aiosa* Date: 12/3/2020

Name of Property Owner: [Redacted] Name of Petition Preparer: Kristin J. Aiosa, JMT, Inc

Address: [Redacted] Address: Kristin J. Aiosa, JMT, Inc

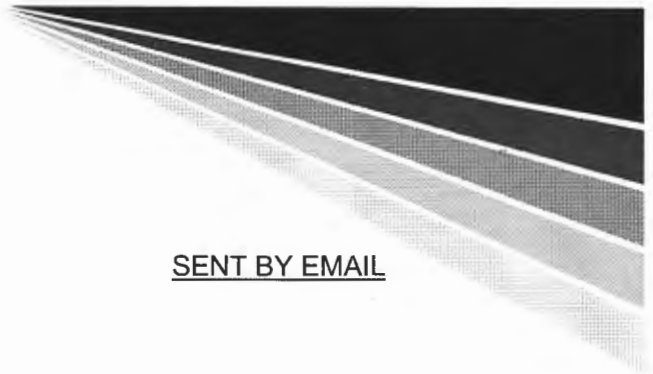
City, State, Zip: [Redacted] City, State, Zip: York, PA 17402

E-Mail: [Redacted] E-Mail: kaiosa@jmt.com

Phone No.: [Redacted] Phone No.: (717) 741-6243

Contact Person: [Redacted] Contact Person: Kristin J. Aiosa, Sr-Associate

Owner's Authorization Attached



November 23, 2020

SENT BY EMAIL

Howard County Department of Planning and Zoning
Division of Land Development
3430 Court House Drive
Ellicott City, Maryland 21043

Attn: Anthony M. Cataldo, AICP, Chief

RE: Request for Waiver of SDP Requirements
Line MB Urgent Dig Dent wML
Columbia Gas Transmission, LLC
Clarksville, Howard County, Maryland

Dear Mr. Cataldo:

On behalf of Columbia Gas Transmission, LLC (Columbia Gas), JMT, Inc. is requesting a waiver of the County Site Development Plan (SDP) requirements under Howard County Code Section 16.155. This request is being submitted for approval in conjunction with a separate request for Necessary Disturbance of a wetland buffer associated with this project under Section 16.116(c) of the Howard County Code.

The proposed Project is located at 13110 Greenberry Lane in Clarksville, Howard County on the Clarksville, Maryland, USGS 7.5 Minute Quadrangle (2019). See enclosed Project Location Map. Recent testing of Columbia Gas natural gas pipeline MB (Line MB) discovered three anomalies within seven feet of each other on this property. The anomalies have been identified as dents to Line MB with metal loss. The three Line MB dents are located at the following coordinates:

- 39.23817393, -76.96486714
- 39.23817124, -76.96486906
- 39.23815784, -76.96487857

Based on the degree of metal loss, Columbia Gas is required to classify the repair of these three anomalies as an "Urgent" dig that must be repaired within 90 days per PHMSA (Pipeline & Hazardous Materials Safety Administration) safety regulations. To meet this 90-day window the repair work must begin no later than January 13, 2021.

The Project will take place within a fallow agricultural field and a 25-foot wetland buffer. There will be no need for tree trimming or removal to complete the proposed project. The urgent repair will consist of excavation to expose the pipeline, evaluation of the dents, and repair followed by backfilling. The limit of disturbance (LOD), including the 25-foot wetland buffer, will be returned to original grade and land cover.

There will be no new impervious, no changes to existing grades, and no changes to existing land covers as well as no new structures or improvements. All ground disturbance has been reduced to the greatest extent practicable and is limited to the existing Columbia Gas easement that runs through this property.

Please find enclosed a copy of the Standard Sediment Control Plan under County review for this project. A limit of work (LOW) is indicated on the Standard Sediment Control Plan for the temporary access to the work area from Greenberry Lane. No ground disturbance will result from the temporary access and coordination has been completed with the property owner to obtain approval to use this temporary access. Based on early coordination with the Howard County Soil Conservation District, Mr. Bob Robertson issued a letter on November 13, 2020 allowing for the use of a Howard County Standard Sediment Control Plan by this project even though there will be disturbance to the wetland buffer. Please see the enclosed letter. A Sediment Control Plan and Grading Permit Application are currently under review and approval and will be obtained prior to start of construction. Construction methods will be implemented in accordance with applicable best management practices included in the following documents:

- 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control;
- Maryland Department of the Environment Best Management Practices for Working in Nontidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplains; and
- 2020 TC Energy Environmental Construction Standards.

Implementation of these best management practices will be done under the supervision of the Howard County Sediment Control Inspector to avoid and minimize potential impacts to water quality, wildlife, and vegetative habitat.

As was mentioned above, temporary impacts to the 25-foot wetland buffer of an adjacent palustrine emergent (PEM) wetland are anticipated to occur as a result of the Project. Impacts to wetland buffers has been minimized to the greatest extent practicable. Temporary impacts to the 25-foot wetland buffer will total 2,143 square feet (0.492 acre) as a result of excavation and stockpiling activities required to complete the pipeline repairs. The enclosed Standard Sediment Control Plan has been highlighted to indicate the location of the impacted 25-foot wetland buffer. A modification of the enclosed Maryland Department of the Environment (MDE) parent authorization (20-NT-0050/202060274) for Columbia Gas individual repair and maintenance activities has been requested to authorize the Project and the resulting wetland buffer impacts.

Thank you in advance for your review of this request. To maintain the project schedule, it is requested that your findings be issued within 15 business days. If additional information is required, please do not hesitate to contact me by phone at 717-741-6243 or e-mail at kaiosa@jmt.com.

Thank you,

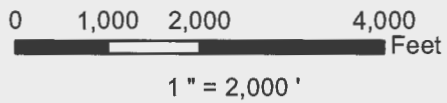
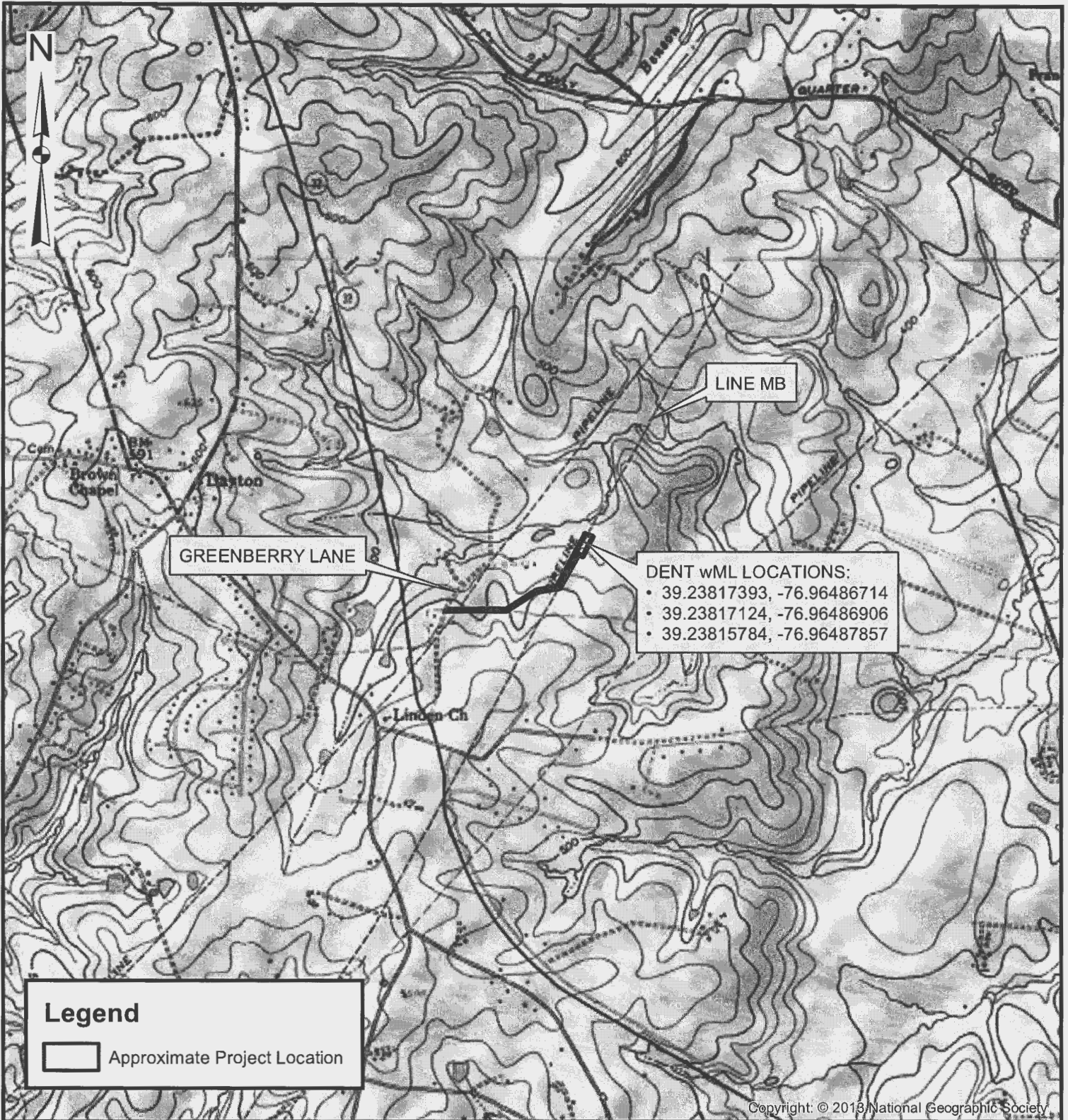
JOHNSON, MIRMIRAN & THOMPSON



Kristin J. Aiosa
Senior Environmental Scientist

Enclosures

cc: Jennifer Cannon, Columbia Gas Transmission, LLC



SOURCE: NGS USA TOPOGRAPHIC MAPS



PROJECT LOCATION MAP

LINE MB URGENT DIG DENT wML

CLARKSVILLE, HOWARD COUNTY, MD

DATE: NOVEMBER 2020

Highlighted Standard Sediment Control Plan will be inserted here.



Jennifer Cannon
Environmental Advisor
jennifer_cannon@tcenergy.com
Environmental Permitting
Stakeholder Relations | U.S. Environment
mobile: 540-233-0008 desk: 304-357-2040
TCEnergy.com

RE: Columbia Gas Pipeline
13110 Greenberry Ln
Clarksville, MD 21029

Ms. Cannon:

Please consider this letter as formal allowance for the use of the Howard SCD Standard Sediment Control Plan for the above referenced property.

The Howard SCD is aware of the environmental disturbances, however, due to the urgent nature of the project and the issuance of an "umbrella" permit by the Maryland Department of the Environment, the use of the Standard Plan seems applicable.

Please be aware this letter does not relieve you from obtaining any other permissions that may be necessary from other Howard County, Federal, or State agencies.

If the Howard SCD can be of any further help or answer any questions, please feel free to contact me.

Sincerely,

Bob Robertson
Engineering Specialist II

BRobertson@howardcountymd.gov
410-313-0681

Cc: Mr. Robert Frances, Director, Howard County Department of Inspections, Licenses and Permits

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
LETTER OF AUTHORIZATION

AUTHORIZATION NUMBER: 20-NT-0050/202060274

EFFECTIVE DATE: April 22, 2020

EXPIRATION DATE: April 22, 2025

AUTHORIZED PERSON: Columbia Gas Transmission, LLC
1700 MacCorkle Avenue, SE, PO Box 1273
Charleston, WV 25314
Attn: William Timmermeyer



IN ACCORDANCE WITH ENVIRONMENT ARTICLE §5-503(a) AND §5-906(b), ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME), COMAR 26.17.04 AND 26.23.01, AND 26.08.02 AND THE ATTACHED CONDITIONS OF AUTHORIZATIONS, Columbia Gas Transmission, LLC (AUTHORIZED PERSON"), IS HEREBY AUTHORIZED BY THE WATER AND SCIENCE ADMINISTRATION ("ADMINISTRATION") TO CONDUCT A REGULATED ACTIVITY IN A NONTIDAL WETLAND, BUFFER, OR EXPANDED BUFFER, AND/OR TO CHANGE THE COURSE, CURRENT OR CROSS-SECTION OF WATERS OF THE STATE, IN ACCORDANCE WITH ATTACHED CONDITIONS, INCLUDING THE SUBMISSION OF MODIFICATION REQUESTS ACCOMPANIED BY PLANS AS DESCRIBED BELOW:

This is a parent Authorization associated with natural gas transmission lines under which individual repair and maintenance activities, including installation of cathodic protection, may be subsequently approved. Work under this authorization is limited to repair and maintenance activities to existing facilities resulting in temporary impacts to nontidal wetlands, nontidal wetland buffers and waterways, including the 100-year floodplain. Potential project sites may be located in existing pipeline rights-of-way, temporary work space, and on property owned by Columbia Gas Transmission, LLC in Allegheny, Baltimore, Cecil, Garrett, Harford, Howard and Montgomery Counties. The actual work sites will be determined, as needed, based on line inspection data and operational needs.

A handwritten signature in black ink, appearing to read "Denise M. Keehner", written over a horizontal line.

Denise M. Keehner
Program Manager
Wetlands and Waterways Program

Attachments: Conditions of Authorization

cc: MDE WSA Compliance Program
Kristin J. Aiosa, JMT, Inc.

SPECIAL CONDITIONS

1. **Modification:** A Modification request must be submitted prior to the initiation of work in regulated areas, detailing each individual maintenance/repair site. The Modification request must be accompanied by a vicinity map, an impact matrix and detailed plans. The plans must depict all proposed work areas including construction access, the limits of nontidal wetlands, the nontidal wetland buffer, Waters of the State, as well as the Limits of Disturbance. Please note that leak inspections themselves are not a regulated activity, provided that only non-invasive technology is utilized.
2. **Rare, threatened or endangered species coordination:** Coordination has to be completed by the Authorized Person with the Maryland Department of Natural Resources - Wildlife and Heritage Service and the Project Review Division of the Integrated Policy and Review Unit for each worksite before the Department can issue a Modification.

GENERAL CONDITIONS

1. **Validity:** Authorization is valid only for use by Authorized Person. Authorization may be transferred only with prior written approval of the Administration. In the event of transfer, transferee agrees to comply with all terms and conditions of Authorization.
2. **Initiation of Work, Modifications and Extension of Term:** Authorized Person shall initiate authorized activities in waterways, including streams and the 100-year floodplain, within two (2) years of the Effective Date of this Authorization or the Authorization shall expire. [Annotated Code of Maryland, Environment Article 5-510(a)-(b) and Code of Maryland Regulations 26.17.04.12]. Authorized Person may submit written requests to the Administration for (a) extension of the period for initiation of work, (b) modification of Authorization, including the Approved Plan, or, (c) not later than 45 days prior to Expiration Date, an extension of term. Requests for modification shall be in accordance with applicable regulations and shall state reasons for changes, and shall indicate the impacts on nontidal wetlands, streams, and the floodplain, as applicable. The Administration may grant a request at its sole discretion. (Annotated Code of Maryland, Environment Article 5-510(c), and Code of Maryland Regulations 26.17.04.12, and Annotated Code of Maryland, Environment Article 5-907 and Code of Maryland Regulations 26.23.02.07).
3. **Responsibility and Compliance:** Authorized Person is fully responsible for all work performed and activities authorized by this Authorization shall be performed in compliance with this Authorization and Approved Plan. Authorized Person agrees that a copy of the Authorization and Approved Plan shall be kept at the construction site and provided to its employees, agents and contractors. A person (including Authorized Person, its employees, agents or contractors) who violates or fails to comply with the terms and conditions of this Authorization, Approved Plan or an administrative order may be subject to penalties in accordance with §5-514 and §5-911, Department of the Environment Article, Annotated Code of Maryland (2007 Replacement Volume).
4. **Failure to Comply:** If Authorized Person, its employees, agents or contractors fail to comply with this Authorization or Approved Plan, the Administration may, in its discretion, issue an administrative order requiring Authorized Person, its employees, agents and contractors to cease and desist any activities which violate this Authorization, or the Administration may take any other enforcement action available to it by law, including filing civil or criminal charges.
5. **Suspension or Revocation:** Authorization may be suspended or revoked by the Administration, after notice of opportunity for a hearing, if Authorized Person: (a) submits false or inaccurate information in Permit application or subsequently required submittals; (b) deviates from the Approved Plan, specifications, terms and conditions; (c) violates, or is about to violate terms and conditions of this Authorization; (d) violates, or is about to violate, any regulation promulgated pursuant to Title 5, Department of the Environment Article, Annotated Code of Maryland as amended; (e) fails to allow authorized representatives of the Administration to enter the site of authorized activities at any reasonable time to conduct inspections and evaluations; (f) fails to comply with the requirements of an administrative action or order issued by the Administration; or (g) does not have vested rights under this Authorization and new information, changes in site conditions, or amended regulatory requirements necessitate revocation or suspension.
6. **Other Approvals:** Authorization does not authorize any injury to private property, any invasion of rights, or any infringement of federal, State or local laws or regulations, nor does it obviate the need to obtain required authorizations or approvals from other State, federal or local agencies as required by law.
7. **Site Access:** Authorized Person shall allow authorized representatives of the Administration access to the site of authorized activities during normal business hours to conduct inspections and evaluations necessary to assure compliance with this Authorization. Authorized Person shall provide necessary assistance to effectively and safely conduct such inspections and evaluations.

8. **Inspection Notification:** Authorized Person shall notify the Administration's Compliance Program at least five (5) days before starting authorized activities and five (5) days after completion. For Allegany, Garrett, and Washington Counties, Authorized Person shall call 301-689-1480. For Carroll, Frederick, Howard, Montgomery and Prince George's Counties, Authorized Person shall call 301-665-2850. For Baltimore City, Anne Arundel, Baltimore, Calvert, Charles, Harford and St. Mary's Counties, Authorized Person shall call 410-537-3510. For Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico and Worcester Counties, Authorized Person shall call 410-901-4020. If Authorization is for a project that is part of a mining site, please contact the Land and Materials Administration's Mining Program at 410-537-3557 at least five (5) days before starting authorized activities and five (5) days after completion.
9. **Sediment Control:** Authorized Person shall obtain approval (if required) from the Soil Conservation District in each County where work will be performed, for a grading and sediment control plan specifying soil erosion control measures. The approved grading and sediment control plan shall be included in the Approved Plan, and shall be available at the construction site.
10. **Best Management Practices During Construction:** Authorized Person, its employees, agents and contractors shall conduct authorized activities in a manner consistent with the Best Management Practices specified by the Administration.
11. **Disposal of Excess:** Unless otherwise shown on the Approved Plan, all excess fill, spoil material, debris, and construction material shall be disposed of outside of nontidal wetlands, nontidal wetlands buffers, and the 100-year floodplain, and in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands.
12. **Temporary Staging Areas:** Temporary construction trailers or structures, staging areas and stockpiles shall not be located within nontidal wetlands, nontidal wetlands buffers, or the 100-year floodplain unless specifically included on the Approved Plan.
13. **Temporary Stream Access Crossings:** Temporary stream access crossings shall not be constructed or utilized unless shown on the Approved Plan. If temporary stream access crossings are determined necessary prior to initiation of work or at any time during construction, Authorized Person, its employees, agents or contractors shall submit a written request to the Administration and secure the necessary permits or approvals for such crossings before installation of the crossings. Temporary stream access crossings shall be removed and the disturbance stabilized prior to completion of authorized activity or within one (1) year of installation.
14. **Discharge:** Runoff or accumulated water containing sediment or other suspended materials shall not be discharged into waters of the State unless treated by an approved sediment control device or structure.
15. **Instream Construction Prohibition:** To protect important aquatic species, motor driven construction equipment shall not be allowed within stream channels unless on authorized ford crossings. Activities within stream channels are prohibited as determined by the classification of the stream (COMAR 26.08.02.08): **The appropriate instream construction prohibition will be determined based on the location of each individual repair site.**
16. **Instream Blasting:** Authorized Person shall obtain prior written approval from the Administration before blasting or using explosives in the stream channel.
17. **Minimum Disturbance:** Any disturbance of stream banks, channel bottom, wetlands, and wetlands buffer authorized by this Authorization or Approved Plan shall be the minimum necessary to conduct permitted activities. All disturbed areas shall be stabilized vegetatively no later than seven (7) days after construction is completed or in accordance with the approved grading or sediment and erosion control plan.
18. **Restoration of Construction Site:** Authorized Person shall restore the construction site upon completion of authorized activities. Undercutting, meandering or degradation of the stream banks or channel bottom, any deposition of sediment or other materials, and any alteration of wetland vegetation, soils, or hydrology, resulting directly or indirectly from construction or authorized activities, shall be corrected by Authorized Person as directed by the Administration.

FEDERALLY MANDATED STATE AUTHORIZATIONS

The State of Maryland issued a Water Quality Certification to the U.S. Army Corps of Engineers for projects receiving federal authorization under the Maryland State Programmatic General Permit, Regional General Permit for Chesapeake Bay Total Maximum Daily Load (TMDL) Activities and non-suspended Nationwide Permits. In addition, as applicable, this Authorization constitutes the State's concurrence with the Applicant's certification that the activities authorized herein are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act of 1972, as amended. Activities in the following counties are not subject to the Maryland Coastal Zone Management requirement: Allegany, Carroll, Frederick, Garrett, Howard, Montgomery, and Washington.

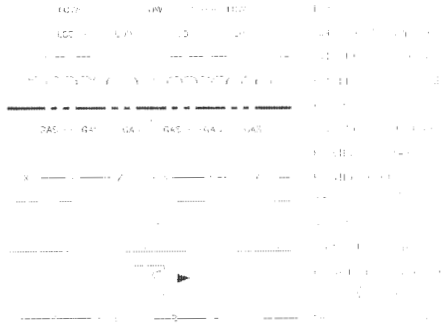
U.S. ARMY CORPS OF ENGINEERS AUTHORIZATION

The U.S. Army Corps of Engineers reviewed this activity under the Maryland State Programmatic General Permit (MDSPGP-5.), as a Category B. Federal authorization was sent directly from the Army Corps of Engineers and should be followed when performing the authorized work.

**BEST MANAGEMENT PRACTICES FOR WORKING IN
NONTIDAL WETLANDS, WETLAND BUFFERS,
WATERWAYS AND 100-YEAR FLOODPLAINS**

- 1) No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 2) Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- 4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- 6) Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- 7) All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum* sp.), Oats (*Uniola* sp.), and/or Rye (*Secale cereale*). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division. **Kentucky 31 fescue shall not be utilized in wetland or buffer areas.** The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- 8) After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- 9) To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream:
 - Use I waters: In-stream work shall not be conducted during the period March 1 through June 15, inclusive, during any year.
 - Use III waters: In-stream work shall not be conducted during the period October 1 through April 30, inclusive, during any year.
 - Use IV waters: In-stream work shall not be conducted during the period March 1 through May 31, inclusive, during any year.
- 10) Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- 11) Culverts shall be constructed and any riprap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.

LEGEND



EROSION CONTROL PRACTICE LEGEND

- SSF SUPER SILT FENCE
- DA DRAINAGE AREA BOUNDARY
- SCS STABILIZED CONSTRUCTION ENTRANCE

SUPER SILT FENCE ID	LENGTH
SSF-01	299.00'
SSF-02	156.00'

NOTES

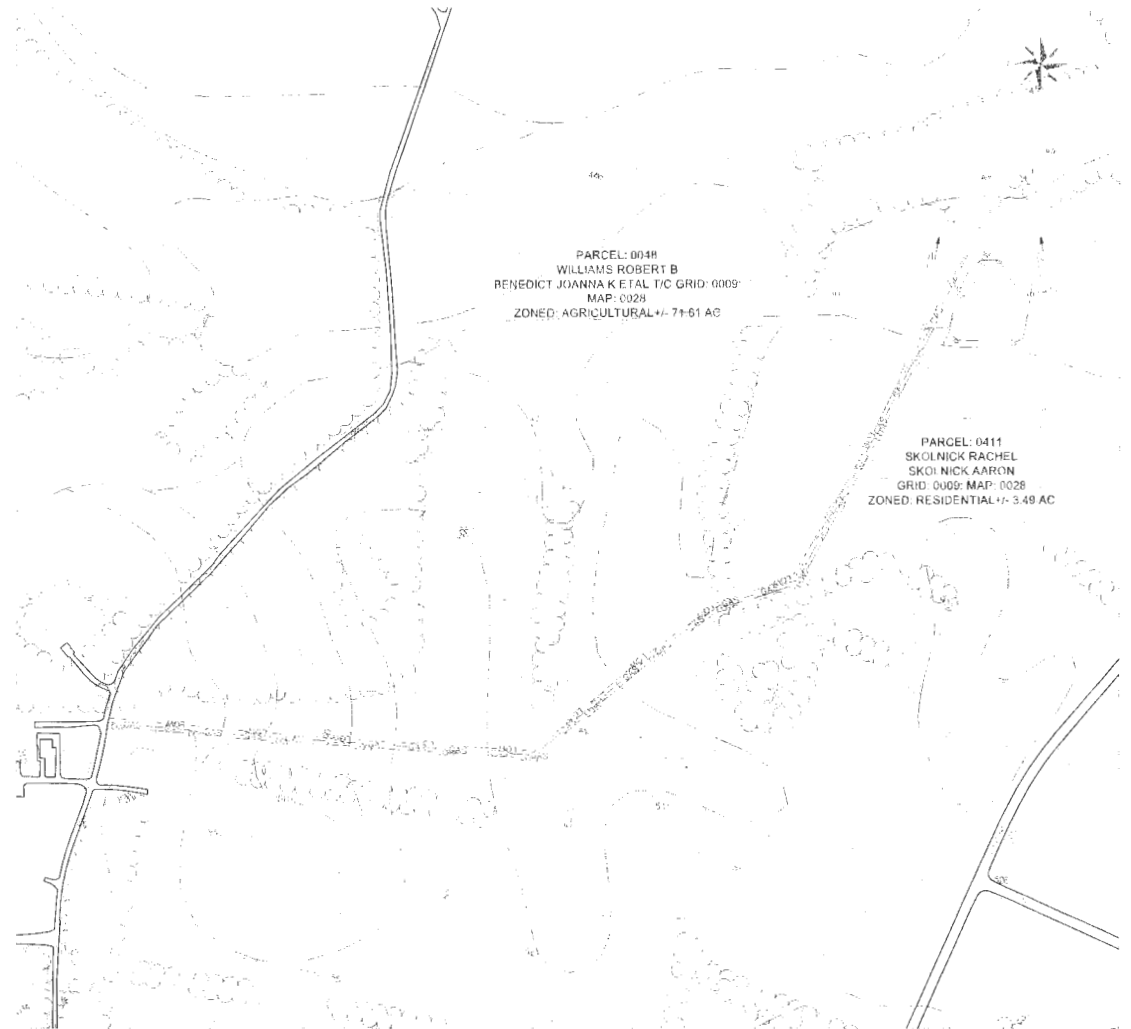
1. THE EXISTING SITE DOES NOT HAVE CURBS OR A STORM SYSTEM TO CONCENTRATE FLOW. PARTS SURROUNDING THE SITE SHEET FLOW ACROSS OPEN AGRICULTURAL FIELDS INTO A WOODED AREA NORTH OF THE DIG SITE.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE. ONLY THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO CONSTRUCTION.
3. NO DISTURBED AREA SHALL REMAIN UNSTABILIZED OVERNIGHT UNLESS DIRECTED TO AN MDE APPROVED SEDIMENT CONTROL DEVICE.
4. NO EARTH DISTURBANCE ACTIVITIES ARE PERMITTED WITHIN THE LOW FLOOD HAZARD DISTURBANCE AREA. IF EARTH DISTURBANCE OCCURS, THE AREA MUST BE STABILIZED IMMEDIATELY AND SHALL NOT BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TOWARD AN MDE APPROVED SEDIMENT CONTROL DEVICE.
5. EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

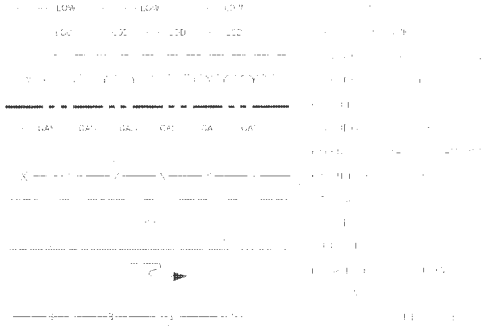
WATER QUALITY COMPLIANCE

TOTAL AREA OF FACILITY (LOW): 1.42 ACRES
 DISTURBED AREA (LUD): 0.21 ACRES



	PROPERTY OWNER: CHESAPEAKE GAS TRANSMISSION LLC 1104 SENECA WAY, SUITE 200 ANNAPOLIS, MD 21403		PROPERTY OWNER: ROBERT B. WILLIAMS 11231 ANNAPOLIS, MD 21403		PROPERTY OWNER: BENEDICT JOHANNA K ETAL TIC 1104 SENECA WAY, SUITE 200 ANNAPOLIS, MD 21403		PROJECT NUMBER: 1104S-200-001		PROJECT NAME: EROSION AND SEDIMENT CONTROL PLAN		PROJECT LOCATION: CHESAPEAKE GAS TRANSMISSION 1104 SENECA WAY, SUITE 200 ANNAPOLIS, MD 21403		PROJECT CLIENT: COLUMBIA GAS TRANSMISSION		
	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE	NO. REVISIONS

LEGEND



EROSION CONTROL PRACTICE LEGEND

- SUPER SILT FENCE
- DRAINAGE AREA BOUNDARY
- STABILIZED CONSTRUCTION ENTRANCE

SUPER SILT FENCE ID	LENGTH
SSF-01	382.00
SSF-02	154.00

NOTES

1. THE EXISTING SITE DOES NOT HAVE CURBS OR A STORM SYSTEM TO CONCENTRATE FLOW AROUND THE SITE. SHEET FLOW ACROSS OPEN AGRICULTURAL FIELDS INTO A WOODED AREA NORTH OF THE DIG SITE.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO CONSTRUCTION.
3. NO DISTURBED AREA SHALL REMAIN UNSTABILIZED OVERNIGHT UNLESS DIRECTED TO AN MGE APPROVED SEDIMENT CONTROL DEVICE.
4. NO FURTHER DISTURBANCE ACTIVITIES ARE PERMITTED WITHIN THE FLOW IF EARTH DISTURBANCE OCCURS. THE AREA MUST BE STABILIZED IMMEDIATELY AND SHALL NOT BE LEFT UNSTABILIZED OVERNIGHT UNLESS THE RUNOFF IS DIRECTED TOWARD AN MGE APPROVED SEDIMENT CONTROL DEVICE.
5. EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.



WATER QUALITY COMPLIANT
 TOTAL AREA OF FACILITY (LOW): 1.42 ACRES
 DISTURBED AREA (LOW): 0.31 ACRES

PARCEL: 0040
 WILLIAMS ROBERT B
 BENEDICT JOANNA K ETAL T/C GRID: 0009;
 MAP: 0026
 ZONED: AGRICULTURAL-V-71.61 AC

SSF-01
 DA = 0.21 ACRES

SSF-02
 DA = 0.09 ACRES

PARCEL: 0411
 SKOLNICK RACHEL
 SKOLNICK AARON
 GRID: 0009; MAP: 0028
 ZONED: RESIDENTIAL-V-3.49 AC

SCALE: 1"=60'



PROPERTY OWNER: COLUMBIA GAS TRANSMISSION, INC.
 1700 BROADWAY, FLOOR 12
 HARTFORD, CT 06183-4001

FOR DETAILS, VISIT: www.cgt.com

PROJECT: 15-1965-042
 PROJECT NAME: PROPOSED PROJECT 15-1965-042
 PROJECT LOCATION: 15-1965-042



EROSION AND SEDIMENT CONTROL PLAN

No.	REVISIONS	DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	CHKD

PROJECT NO: 15-1965-042
 PROJECT NAME: PROPOSED PROJECT 15-1965-042
 PROJECT LOCATION: 15-1965-042
 SHEET NO: 15-1965-042-001
 TOTAL SHEETS: 1

**HOWARD SOIL CONSERVATION DISTRICT
STANDARD SEDIMENT CONTROL NOTES**

- A PRE CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 430-333-1385 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MAILED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH DISTURBANCE,
 - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
 - PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
- OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIPS, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-5). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCIDENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH 1% OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET, ALL CONCENTRATED FLOW, STEEP SLOPES, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
- SITE ANALYSIS:

TOTAL AREA OF SITE: 0.31 ACRES
 AREA DISTURBED: 0.27 ACRES
 AREA TO BE ROOFED OR PAVED: 1,000 SQ. YDS.
 AREA TO BE VEGETATIVELY STABILIZED: 0.00 ACRES
 TOTAL FILL: 0.05 CU. YDS.
 TOTAL FILL: 0.0 CU. YDS.
 OFFSITE WASTE/BORROW AREA LOCATION: N/A

*FAIRWEATHER QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO START OF CONSTRUCTION.

7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY, AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, SHOULD INCLUDE:
 - INSPECTION DATE
 - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
 - NAME AND TITLE OF INSPECTOR
 - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LATEST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
 - EVIDENCE OF SEDIMENT DISCHARGES
 - IDENTIFICATION OF PLAN DEFICIENCIES
 - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS
 - MONITORING/SAMPLING
 - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (PDFS, ADE).

9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
11. DISTURBANCES SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK SHALL PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CONJUGATELY MAY BE DISTURBED AT A GIVEN TIME.
12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION TO FINAL GRADE.
14. ALL UTILITY FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTIGUOUS, AND BE IMBARRICATED AT 25' MINIMUM INTERVALS WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.
15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
 - USE I AND II: MARCH 1 - JUNE 15
 - USE III AND IIIA: OCTOBER 1 - APRIL 30
 - USE IV: MARCH 1 - MAY 31
16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE AT THE SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

GENERAL NOTES:

- BASE MAPPING SHOWN IS FROM A COMBINATION OF SOURCES BY OTHER FIRMS RESPONSIBLE FOR THE DESIGN OF THE GAS EQUIPMENT, AND FROM PUBLICLY AVAILABLE SOURCES. PROFESSIONAL RESPONSIBILITY OF A/E IS TO VERIFY THE CONSISTENCY OF THE EROSION CONTROL PLAN WITH THE BASE FILES PROVIDED, AND NOT THE ACCURACY OF THE BASE FILES THEMSELVES.
- CONSTRUCTION SURVEY STAKEOUT FOR EROSION CONTROL WILL BE INTEGRATED WITH CONSTRUCTION STAKEOUT FOR THE NEW FACILITY TO ENSURE CONSISTENCY.
- PROJECT HORIZONTAL DATUM IS MARYLAND GRID NAD83.
- NO CLEARING, GRUBBING, LAND GRADING, ROADS, OR BUILDINGS ARE INCLUDED IN THIS PROJECT.
- THE PRIMARY TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICE FOR THE PROJECT SHALL BE SILT FENCE AND SUPER SILT FENCE CONSISTING OF FILTER FABRIC ATTACHED TO THE EXISTING SECURITY CHAINLINK FENCE. ENSURE PROPER TRENCH DIMENSIONS AND COMPACTION OF THE ANCHOR TRENCH FOR THE EMBODDED FILTER FABRIC. EXISTING DIVERSION FENCE, SUPER SILT FENCE, TEMPORARY ASPHALT BEHAM, A RIPRAP OUTFALL, AND MOUNTABLE BEAMS OUTSIDE THE LOD ARE ALSO PROVIDING EROSION AND SEDIMENT CONTROL AND SHALL BE MAINTAINED.
- MAINTENANCE SILT FENCE, SUPER SILT FENCE, AND STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSPECTED AND MAINTAINED EACH DAY AND AFTER STORM EVENTS. MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO REMOVAL OF ALL ACCUMULATED SEDIMENT, AND REPLACEMENT OF DAMAGED FILTER FABRIC.
- SEQUENCE OF CONSTRUCTION:
 - NOTIFY HOWARD COUNTY INSPECTOR (SEE HOWARD SCD STANDARD NOTE 1) AND NOTIFY MARYLAND DEPARTMENT OF ENVIRONMENT INSPECTION AND COMPLIANCE PROGRAM (410) 632-3510 AT LEAST 15 DAYS PRIOR TO BEGINNING WORK.
 - INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS. (1-2 DAYS)
 - NOTIFY HOWARD SCD INSPECTOR UPON COMPLETION OF EROSION AND SEDIMENT CONTROL MEASURES.
 - WITH THE APPROVAL OF THE INSPECTOR, COMPLETE SITE PREPARATIONS OF THE REMAINDER OF THE CONSTRUCTION AREA, AND INSTALL INTERNAL EROSION CONTROLS, IF APPLICABLE. (1-4 DAYS)
 - CONSTRUCTION AND MATERIAL STAGING. (1-2 DAYS)
 - AFTER CONSTRUCTION IS COMPLETE, PROVIDE RESTORATION SEEDING AND MULCHING. (1-7 DAYS)
 - AFTER VEGETATION REESTABLISHMENT AND RECEIVING PERMISSION FROM HOWARD COUNTY INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL PRACTICES AND STABILIZE THE AREAS DISTURBED BY THIS PROCESS.
- EXCAVATED TOPSOIL AND SUBSOIL SHALL BE KEPT SEPARATE AND PROTECTED AS FOLLOWS:
 - STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD).
 - STOCKPILES SHALL DRAIN TO A FUNCTIONING DRAINAGE AND SEDIMENT CONTROL DEVICE.
 - STOCKPILES SHALL BE POSITIONED TO NOT IMPROVE UPON, OR IMPAIR THE FUNCTION OF THE SEDIMENT CONTROL DEVICE.
 - STOCKPILES SHALL BE POSITIONED TO NOT INTERFERE WITH DRAINAGE DITCHES.
- TRACKOUT SHALL BE PREVENTED BY STABILIZED CONSTRUCTION ENTRANCES AT THE CONNECTION TO EXISTING DRIVEWAYS AND ROADS.
- STABILIZATION DOES NOT APPLY TO THOSE AREAS WHICH ARE BEING USED FOR MATERIAL STORAGE OF FOR THOSE AREAS ON WHICH ACTUAL CONSTRUCTION ACTIVITIES ARE CURRENTLY BEING PERFORMED.
 - ANY DEWATERING DISCHARGE SHALL BE FILTERED BY AN APPROVED PRACTICE.
 - COMPLETE UNDERGROUND UTILITY LOCATION INFORMATION IS NOT AVAILABLE. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT EXISTING UTILITIES.
 - THIS PLAN HAS BEEN DEVELOPED IN ACCORDANCE WITH SDP-35-042, WHICH IS ON FILE WITH THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 - A PER SECTION 16.1201(S)(2)(b), THIS PROJECT IS LESS THAN 200,000 SF AND IS NOT SUBJECT TO FOREST CONSERVATION.

B-4.4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

FAST GROWING VEGETATION IS REQUIRED ON DISTURBED SOILS FOR AN EXPECTED DURATION OF LESS THAN 6 MONTHS BEFORE RE-DISTURBANCE OR PERMANENT SEEDING.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SEEDING: SEE TABLE B.1 BELOW FOR ACCEPTABLE CHOICES OF TEMPORARY SEEDING. SEEDING DATES PER ZONE 6B.

FERTILIZER: PER SOIL TEST OR 436 LB/AC OF 10-20-20

LIME: PER SOIL TEST OR 3 TONS/AC

MULCHING: APPLY 3 TONS/AC (140 LBS/1000 SF) OR UNPOTTED WEED FREE, 5-MALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL.

B-4.5 STANDARDS AND SPECIFICATIONS FOR PERMANENT SEEDING

SEEDBED PREPARATION: IF NOT PREVIOUSLY LOOSENED, LOOSEN UPPER FOUR INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SEEDING: NO CERTIFIED SEED, 350 LB/AC (8.0 LB/1000 SF) TALL FESCUE. PERMANENT SEEDING SHALL BE WITHIN MARCH 15 OR AUG 15-OCT 15

FERTILIZER: IN ACCORDANCE WITH RESULTS OF SOIL TEST. IF REQUESTED, PROVIDE SOIL TEST RESULTS TO THE HOWARD SCD INSPECTOR.

LIME: IN ACCORDANCE WITH RESULTS OF SOIL TEST.

MULCHING: APPLY 3 TONS/AC (140 LBS/1000 SF) OF UNPOTTED WEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL.

DISCLAIMER:

THE INFORMATION SET FORTH ON THIS PLAN THAT WAS PREPARED BY AND/OR APPROVED BY JMT AND THE PROFESSIONAL ENGINEER SIGNING AND SEALING THIS PLAN (COLLECTIVELY "THE ENGINEER") CONSISTS SOLELY OF THE REDUCED PORTIONS OF THE DOCUMENTS, THE UNDERLYING PLANS AND INFORMATION WERE GENERATED BASED UPON INFORMATION AND RECORD PLANS OBTAINED FROM AND/OR FURNISHED BY THE COUNTY, PREPARED BY OTHERS, AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER. THE ENGINEER HAS EXERCISED REASONABLE JUDGMENT CONSISTENT WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN RELYING ON THE INFORMATION IN ORDER TO PREPARE THE REDUCED PORTIONS TO BE SUBMITTED FOR PERMITTING; BUT MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WITH RESPECT TO THE ACCURACY OR COMPLETENESS OF THE EXISTING CONDITIONS OR ANY ACCURACY OR CONTENTS OF THE UNDERLYING RECORD PLANS OR ANY INFORMATION SET FORTH ON SUCH PLANS WHICH WAS NOT PREPARED BY OR UNDER THE DIRECT SUPERVISION OF THE ENGINEER. THE ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DEFECTS, DEVIATIONS OR INCONSISTENCIES ARISING FROM INACCURACIES OR OMISSIONS IN THE REDUCED PLANS AND ACTUAL OR EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS.

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate *		Seeding Depth (inches)	Recommended Seeding Dates by Plant Hardiness Zone *		
	lb/ac	lb/1000 ft ²		Zone 4	Zone 5	Zone 6
<i>Chlorophytum</i>						
<i>Comet Ryegrass (Lolium perenne)</i>	65	1.8	0.5	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Sep 30	Feb 15 to Apr 30; Aug 15 to Sep 30
<i>Hardy ryegrass (Lolium perenne)</i>	70	2.2	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Sep 30	Feb 15 to Apr 30; Aug 15 to Sep 30
<i>Orchard Grass (Lolium)</i>	75	1.1	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Sep 30	Feb 15 to Apr 30; Aug 15 to Sep 30
<i>White (Frustrated) fescue</i>	120	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Sep 30	Feb 15 to Apr 30; Aug 15 to Sep 30
<i>Comet Ryegrass (Lolium perenne)</i>	112	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Sep 30	Feb 15 to Apr 30; Aug 15 to Sep 30
<i>White (Frustrated) fescue</i>						
<i>Frustrated fescue (Lolium)</i>	80	0.7	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 15
<i>Frustrated fescue (Lolium)</i>	30	0.3	0.1	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 15

Table B.2: Recommended Permanent Seeding Mixtures by Site Condition or Purpose

Site Condition or Purpose of the Planting	Recommended Mix (see Table B.1)											
	1	2	3	4	5	6	7	8	9	10	11	12
Slopes, Roadside	R	R	R	A	R	A					A	A
Stead and Gravel Pits, Stationary Landfills	R	R	R	A	R	A					A	A
Salt-Degraded Areas	A											R
Mud Spill, Damaged Material, and Spoil Banks	R	R	R	A	R	A						R
Utility Rights-of-Way	R	R	R	R	R	A					R	R
Ditches and Dams	A	A	A	R	A	R	A				R	R
Beaver and Low Embankments (that on Ponds)	R	R	R	R	R	A	R	A			R	R
Pond and Channel Banks, Streambanks	R	R	R	A	R	A					A	A
Grassed Waterways, Diversion, Terrace, Spillways	A						A	R	A	R	R	A
Bottom of Drainage Channels, Swales, Detention Basins							A	R	A		A	R
Field Borders, Filter Strips, Contour Buffer Strips	R	R	R	A	R	A	R	A	R	R	R	A
Wastewater Treatment Strips and Areas										R	A	A
Heavy Use Areas (Game-Landing Publiclands for Livestock)											R	
Athletic Fields, Residential and Commercial Lawns											A	R
Recreation Areas											R	R

R = Recommended mix for this site condition or purpose.
 A = Alternative mix, depending on site conditions.



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11225, EXPIRATION DATE 12/31/2024.

NOTES		PROJECT OWNER COLUMBIA GAS TRANSMISSION LLC 1400 MACCORRLE AVENUE, 11 CHARLESTON, WV USA 25304	JOB NAME GREENBELT PROJECT NO. 9077 ELECTRICAL DISTRICT 5 DATE: 12/23/2024	DESIGNED BY ROBERT B. WILLIAMS AND JENNIFER BERNECT ETAL 13115 GREENBERRY LANE QUINCYVILLE, MD 21777	DATE OF ISSUE NOV 15, 2024 PROJECT NO. 0065 PARCEL NO. 0042 ELECTRICAL DISTRICT 5 DATE: 12/23/2024	PROJECT DELIVERY PROJECT ENGINEERING DATE: 12/23/2024 LINE: MARYLAND DISTRICT 5	
TITLE EROSION AND SEDIMENT CONTROL PLAN							
No.	REVISIONS	DATE	No.	REVISIONS	DATE	DWG. NO.	REFERENCE
							3 OF 4

Columbia Gas Transmission, LLC
1700 MacCorkle Ave., SE
PO Box 1273
Charleston, WV 25314
Tel: 832-320-5516
kim_myers@tcenergy.com



December 3, 2020

Kristin J. Aiosa, QP
Johnson, Mirmiran & Thompson, Inc.
220 St. Charles Way, Suite 200
York, PA 17402

RE: Line MB Urgent Dig Dent wML Alternative Compliance Application Package

Dear Ms. Aiosa:

Please take this letter as authorization for a representative from Johnson, Mirmiran & Thompson, Inc. to be an authorized agent on behalf of Columbia Gas Transmission, LLC.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Myers".

Kimberly Myers, CHMM

Manager, US Environmental Permitting