

PRE-CONSTRUCTION LAND COVER PLAN

MATCHLINE
SHEET 43,44

MATCHLINE SHEET 60,60A

LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EXISTING FENCE
- EXISTING STRUCTURE
- EXISTING EDGE OF ROAD
- EXISTING GRADE MAJOR CONTOURS (10' C.I.)
- EXISTING GRADE MINOR CONTOURS (2' C.I.)
- ENVIRONMENTAL SURVEY CORRIDOR
- DELINEATED WETLAND
- DELINEATED STREAM
- STREAM FLOW DIRECTION
- FEMA FLOODWAY
- FEMA 100-YEAR FLOODPLAIN
- EXISTING TREELINE/TREE/SHRUB
- EXISTING TGPL PIPELINES
- EXISTING GUIDERAIL
- EXISTING CULVERT
- EXISTING WATERBAR
- EXISTING ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING WATER LINE

PRE-CONSTRUCTION LAND USE LEGEND

- STORMWATER WAIVER AREAS¹
- FOREST

POST-CONSTRUCTION LAND USE LEGEND

- STORMWATER WAIVER AREAS¹
- FOREST (BRUSH SEED MIX W/TREE SEEDLINGS)
- FOREST TO MIXED OPEN CONVERSION

SOILS LEGEND

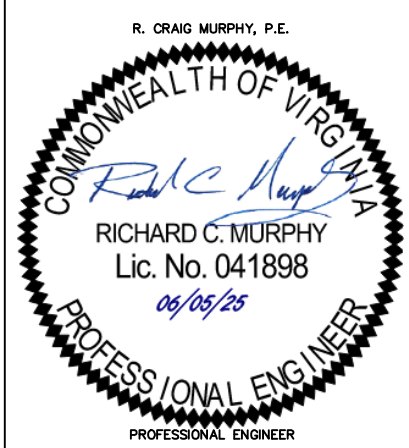
- 5B3 CLIFFORD SANDY CLAY LOAM, 2 TO 7 PERCENT SLOPES, SEVERELY ERODED

LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING UNDERGROUND CABLE LINE
- EXISTING STORM INLET
- EXISTING SANITARY MANHOLE
- EXISTING COMMUNICATION/ELECTRIC MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- PROPOSED PIPELINE
- PERMANENT RIGHT-OF-WAY
- PERMANENT WATERBAR
- MONITORING WELL
- GROUND TESTING VALVE
- PRIVATE WATER WELL

NOTE:

¹ STORMWATER WAIVER AREAS ARE THOSE THAT WILL RETURN TO EXISTING CONDITIONS. SEE PCSM/WATER QUANTITY PLANS FOR SPECIFIC LAND COVER.



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK. APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
WATER QUALITY LAND COVER

SITE PLAN

PITTSYLVANIA COUNTY, VIRGINIA

DRAWN BY: CMK	DATE: 5-30-25	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: JML	DATE: 5-30-25	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: RCM	DATE: 5-30-25	DRAWING NUMBER: VA-EDEN-SMQUAL-060	SHEET 60 OF 66
WO: C1009554	RID: 500		

POST-CONSTRUCTION LAND COVER PLAN

MATCHLINE
SHEET 43,44

MATCHLINE SHEET 60,60A

LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- EXISTING FENCE
- EXISTING STRUCTURE
- EXISTING EDGE OF ROAD
- EXISTING GRADE MAJOR CONTOURS (10' C.I.)
- EXISTING GRADE MINOR CONTOURS (2' C.I.)
- ENVIRONMENTAL SURVEY CORRIDOR
- DELINEATED WETLAND
- DELINEATED STREAM
- STREAM FLOW DIRECTION
- FEMA FLOODWAY
- FEMA 100-YEAR FLOODPLAIN
- EXISTING TREELINE/TREE/SHRUB
- EXISTING TGPL PIPELINES
- EXISTING GUIDERAIL
- EXISTING CULVERT
- EXISTING WATERBAR
- EXISTING ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING WATER LINE

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING UNDERGROUND CABLE LINE
- EXISTING STORM INLET
- EXISTING SANITARY MANHOLE
- EXISTING COMMUNICATION/ELECTRIC MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- PROPOSED PIPELINE
- PERMANENT RIGHT-OF-WAY
- PERMANENT WATERBAR
- MONITORING WELL
- GROUND TESTING VALVE
- PRIVATE WATER WELL

PRE-CONSTRUCTION LAND USE LEGEND

- STORMWATER WAIVER AREAS¹
- FOREST

POST-CONSTRUCTION LAND USE LEGEND

- STORMWATER WAIVER AREAS¹
- FOREST (BRUSH SEED MIX W/TREE SEEDLINGS)
- FOREST TO MIXED OPEN CONVERSION

NOTE:
1. STORMWATER WAIVER AREAS ARE THOSE THAT WILL RETURN TO EXISTING CONDITIONS. SEE PCSM/WATER QUANTITY PLANS FOR SPECIFIC LAND COVER.

SOILS LEGEND

- 5B3 CLIFFORD SANDY CLAY LOAM, 2 TO 7 PERCENT SLOPES, SEVERELY ERODED



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK. APP.

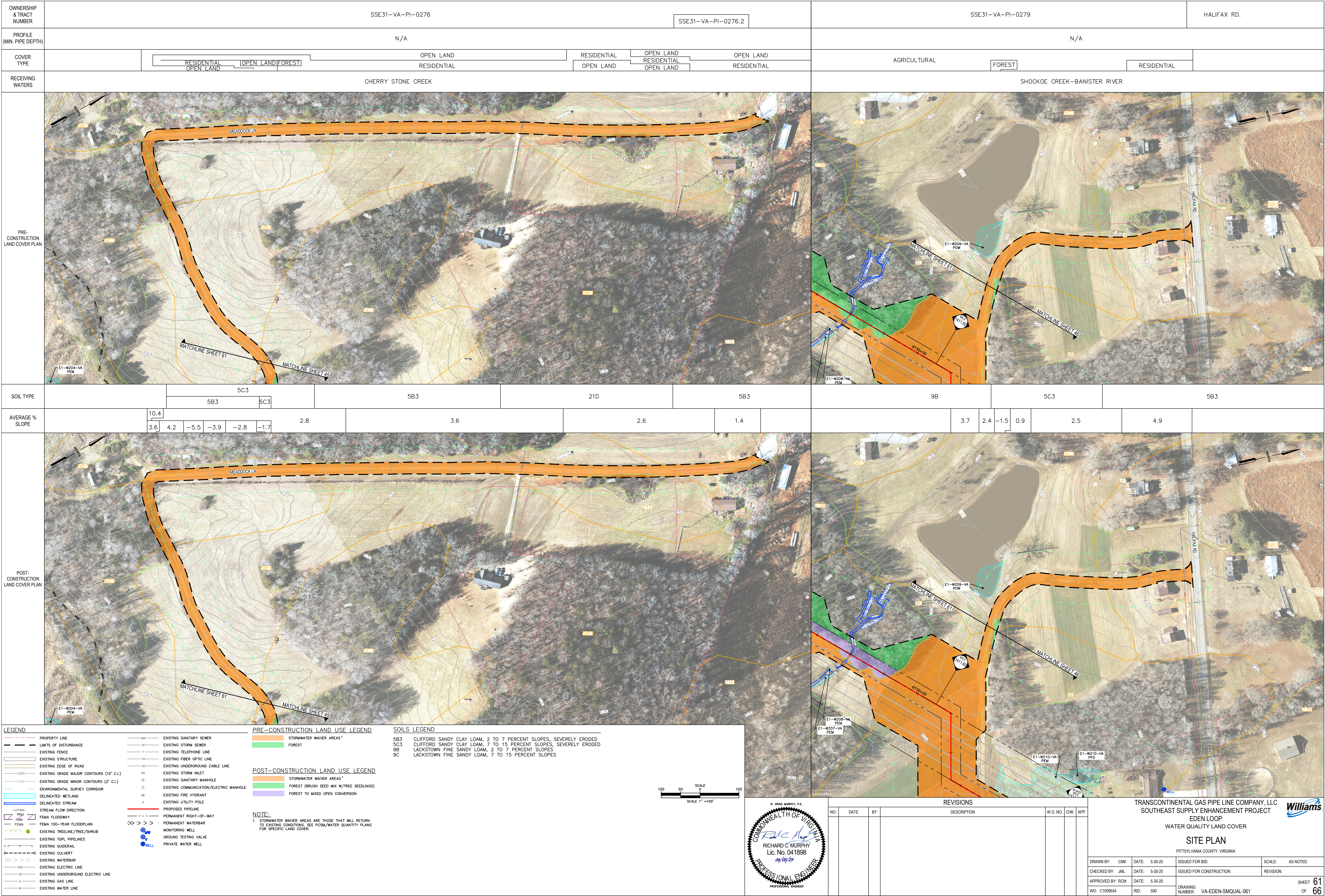
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
WATER QUALITY LAND COVER

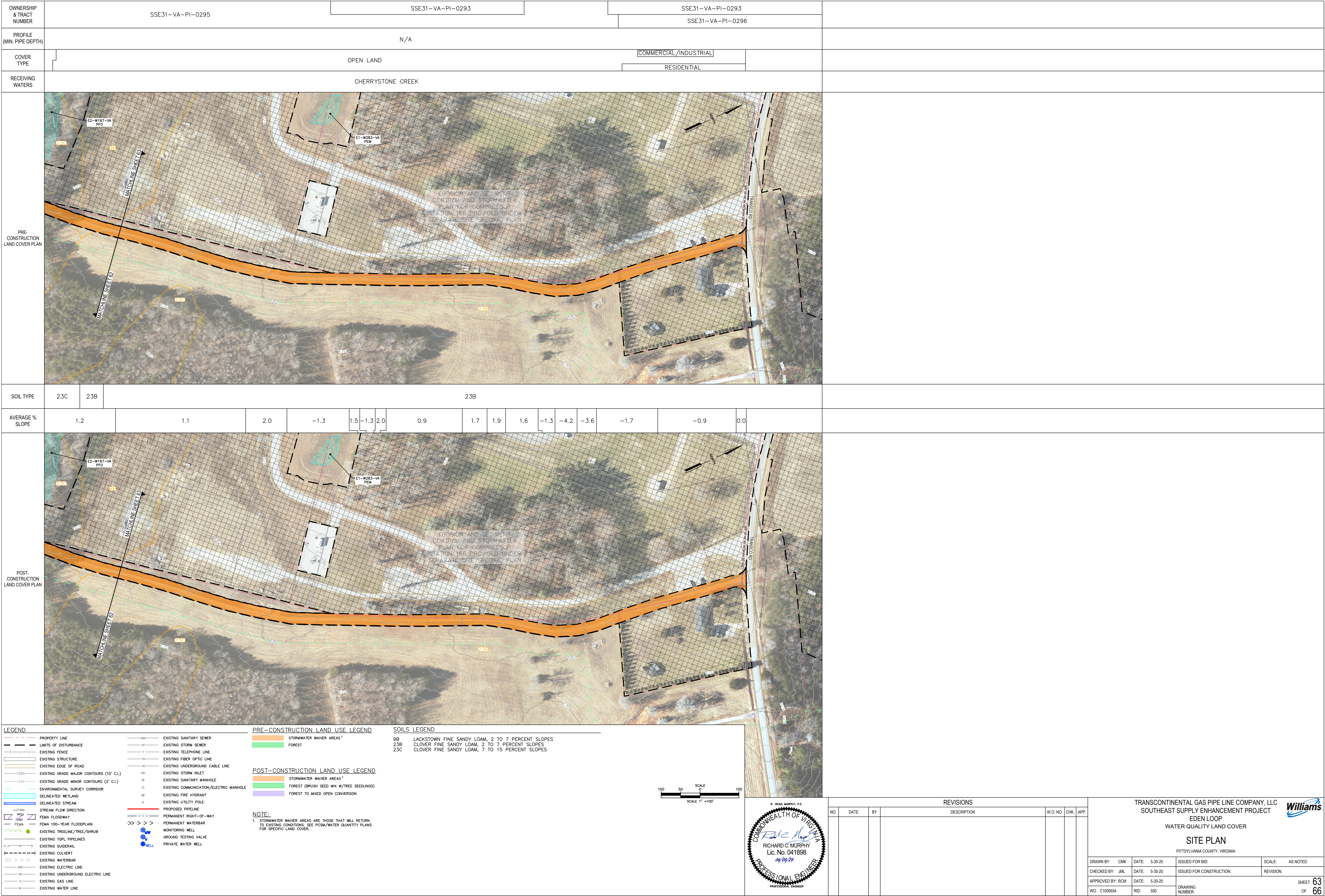


SITE PLAN

PITTSYLVANIA COUNTY, VIRGINIA

DRAWN BY: CMK	DATE: 5-30-25	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: JML	DATE: 5-30-25	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: RCM	DATE: 5-30-25	DRAWING NUMBER: VA-EDEN-SMQUAL-060A	SHEET 60A OF 66
WO: C1009554	RID: 500		





1.0 SITE RESTORATION DESIGN SUMMARY

1.1 INTRODUCTION

THE FOLLOWING METHODOLOGY AND CALCULATIONS WERE DEVELOPED TO ENSURE COMPLIANCE WITH VADEQ REGULATIONS (9VAC-25-875 PART V, ARTICLE 3) FOR WATER QUALITY AND WATER QUANTITY FOR THE LINEAR PIPELINE PORTIONS OF THE PROJECT. THE EDEN-MLV-02 AND EDEN-MLV-03 SITES DRAINAGE AREAS ARE NOT INCORPORATED IN THE FOLLOWING CALCULATIONS AND ARE INCLUDED IN A SEPARATE CALCULATION PACKAGE; HOWEVER, THE WATER QUALITY COMPONENTS OF THE MLVs HAVE BEEN INCLUDED IN THE NUTRIENT CREDIT SUMMARY ON THIS SHEET.

1.2 TYPICAL PIPELINE CORRIDOR POST-CONSTRUCTION CONDITIONS

THE PIPELINE CONSTRUCTION CORRIDOR WILL BE RESTORED FOLLOWING CONSTRUCTION IN THE MANNER DESCRIBED BELOW. THE DISTINCTION BETWEEN TEMPORARY AND PERMANENT RIGHT-OF-WAY (ROW) PRACTICES CONSIDERS THE DEVELOPER'S OPERATIONAL CONTROL OVER AREAS WITHIN ITS EASEMENT.

- THE PERMANENT ROW WILL BE SEEDED AND RESTORED IN THE FOLLOWING MANNER.
 - PRE-CONSTRUCTION AGRICULTURAL LAND USE WILL RETURN TO AGRICULTURAL LAND USE POST-CONSTRUCTION.
 - PRE-CONSTRUCTION IMPERVIOUS COVER WILL REMAIN IMPERVIOUS POST-CONSTRUCTION.
 - PRE-CONSTRUCTION FORESTED COVER WITHIN THE PERMANENT ROW, WILL BE CONVERTED TO MEADOW IN POST-CONSTRUCTION.
 - PALUSTRINE FORESTED (PFO) AND PALUSTRINE SCRUB SHRUB (PSS) WETLANDS WILL BE CONVERTED POST-CONSTRUCTION IN THE FOLLOWING MANNER:
 - 10-FOOT MAINTENANCE CORRIDOR CENTERED ON THE PIPELINE: ONLY PEM WETLANDS ARE RESTORED TO INITIAL CONDITIONS. PFO AND PSS WETLANDS WILL BE PERMANENTLY CONVERTED TO PEM.
 - 10-FOOT TO 30-FOOT TREE MAINTENANCE CORRIDOR CENTERED ON THE PIPELINE: PEM AND PSS WETLANDS ARE RESTORED TO INITIAL CONDITIONS. PFO WILL BE PERMANENTLY CONVERTED TO PSS.
 - OUTSIDE OF 30-FOOT CORRIDOR CENTERED ON THE PIPELINE: ALL WETLANDS RESTORED TO INITIAL CONDITIONS. PFO WILL BE ALLOWED TO GROW BACK THUS CONSIDERED TEMPORARY BUT VOLUNTARILY MITIGATED AS PERMANENT CONVERSION AND FOR TEMPORAL LOSS WHILE PFO REGROWS.
 - OTHER PRE-CONSTRUCTION CONDITIONS SUCH AS RESIDENTIAL LAWNS, MEADOW, AND PALUSTRINE EMERGMENT (PEM) WETLANDS WILL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
- THE TEMPORARY CONSTRUCTION ROW WILL BE RESTORED IN THE FOLLOWING MANNER.
 - IF PRE-CONSTRUCTION LAND USE IS AGRICULTURAL LAND, POST-CONSTRUCTION CONDITION WILL RETURN TO AGRICULTURAL USE.
 - IF PRE-CONSTRUCTION LAND USE IS IMPERVIOUS COVER, THESE IMPERVIOUS SURFACES WILL REMAIN IN THE POST-CONSTRUCTION CONDITION.
 - IF PRE-CONSTRUCTION LAND USE IS FORESTED COVER, POST-CONSTRUCTION CONDITION WILL RETURN TO FORESTED COVER UTILIZING A BRUSH SEED MIX SUPPLEMENTED WITH TREE SEEDLINGS THAT WILL RETURN THE AREA TO FORESTED COVER THROUGH NATURAL SUCCESSION.
 - IN SELECT INSTANCES, EXISTING FORESTED COVER WITHIN THIS PROJECT'S TEMPORARY CONSTRUCTION ROW THAT IS CO-LOCATED WITHIN THE EXISTING TRANSCO PERMANENT ROW (E.G. WITHIN 25 FEET OF TRANSCO'S EXISTING LINES) WILL RETURN TO MEADOW.
 - OTHER PRE-CONSTRUCTION CONDITIONS SUCH AS RESIDENTIAL LAWNS, BRUSH, MEADOW, WETLANDS, ETC. WILL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

THE FOLLOWING PRACTICES WILL APPLY TO THE AREAS OF PERMANENT ROW THAT WILL BE SEEDED AND RESTORED TO MEADOW CONDITIONS:

- MOWING AND GENERAL MAINTENANCE WILL BE CONSISTENT WITH THE MIXED OPEN PRACTICES LISTED IN THE VIRGINIA RUNOFF REDUCTION METHOD (VRRM) V.4.1 COVER MEMO AND VRRM V.4.1 USER GUIDE (JANUARY 2024), TABLE 1.
- THE FULL WIDTH OF PERMANENT ROW WILL NOT BE MOWED ANY MORE FREQUENTLY THAN ONCE EVERY THREE YEARS.
- A CORRIDOR NOT EXCEEDING 10 FEET IN WIDTH LOCATED DIRECTLY OVER THE PIPELINE WILL BE MOWED ANNUALLY FOR INSPECTION PURPOSES IN ACCORDANCE WITH FEDERAL ENERGY REGULATORY COMMISSION (FERC) PLAN AND PROCEDURES.

1.3 STORMWATER METHODOLOGY

AS DESCRIBED ABOVE, THE TEMPORARY ROW WILL RETURN TO PRE-DEVELOPMENT OR BETTER HYDROLOGIC CONDITIONS BASED ON TR-55 CURVE NUMBER CLASSIFICATIONS. DUE TO THE MAJORITY OF THE PROJECT BEING CO-LOCATED ALONG EXISTING ROW, PERMANENT LAND COVER WILL ONLY CHANGE PRE- TO POST-DEVELOPMENT IN THE PERMANENT ROW FOR THE TREE CLEARING AREAS, MLV SITES, AND COMPRESSOR STATION. STORMWATER CALCULATIONS FOR THE MLV SITES AND COMPRESSOR STATION ARE PROVIDED UNDER SEPARATE COVERS.

PRE-CONSTRUCTED FORESTED COVER

THE VRRM NEW DEVELOPMENT SPREADSHEET WAS USED FOR AREAS WHERE THE LANDCOVER WILL CHANGE FROM FORESTED TO MIXED OPEN IN THE PROPOSED OR EXISTING PERMANENT ROW. A SEPARATE SPREADSHEET HAS BEEN PREPARED FOR EACH HUC-12 WATERSHED TO DETERMINE THE NUTRIENT CREDITS REQUIRED TO BE PURCHASED TO MEET WATER QUALITY STANDARDS. THE RESULTS ARE SHOWN IN THE TABLE BELOW.

WATERSHED	TP LOAD REDUCTION REQUIRED (LB/YR) FOR PIPELINE CONSTRUCTION TREE CLEARING	TP LOAD REDUCTION REQUIRED (LB/YR) FOR EDEN-MLV-02 VALVE SITE	TP LOAD REDUCTION REQUIRED (LB/YR) FOR EDEN-MLV-03 VALVE SITE	TP LOAD REDUCTION REQUIRED (LB/YR) FOR COMPRESSOR STATION 165	TOTAL TP LOAD REDUCTION REQUIRED (LB/YR)
TROTTERS CREEK - DAN RIVER (030101030903)	1.45	-	-	-	1.45
LOWER SANDY RIVER (030101031003)	0.44	0.05	-	-	0.49
SANDY CREEK (WEST) - DAN RIVER (030101031004)	0.67	-	-	-	0.67
WHITE OAK CREEK - BANISTER RIVER (030101050103)	1.18	-	TARGET TP REDUCTION EXCEEDED BY 0.12 LB/YR	-	1.18
CHERRYSTONE CREEK (030101050104)	0.64	-	-	0.09	0.73
SHOCKOE CREEK-BANISTER RIVER (030101050203)	-	-	-	8.41	8.41
					12.93

1.4 STORMWATER MANAGEMENT WAIVER REQUEST

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO), IS REQUESTING A WAIVER FOR ALL AREAS RETURNING TO PRE-DEVELOPMENT CONDITIONS AND LAND COVERS. THE WAIVER AREAS ENCOMPASS THE ENTIRETY OF THE PROJECT AREA EXCEPT FOR AREAS CONVERTED FROM FOREST TO MIXED OPEN, THE MLV SITES, AND THE COMPRESSOR STATION.

AFFIDAVIT OF PHOSPHORUS CREDIT SALE

Eco-Cap, LLC, a Virginia limited liability company (the "Company"), hereby certifies the following:

1. Pursuant to that certain Nutrient Credit Purchase and Sale Agreement dated April 4, 2025 (the "Agreement"), between the Company ("Seller") and **TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC** ("Buyer"), the Company, for the benefit of the Buyer, agreed to sell from its Birch Creek Nutrient Bank in Halifax County, Virginia, **19.75** pounds of nonpoint source phosphorus credits to Buyer and retire the associated ratio of nonpoint source nitrogen credits at the credit generating facility in the amount of **152.15** pounds of nitrogen credits;

2. The Company and the Buyer, as of April 14th, 2025, have closed the transaction contemplated by the Agreement and the Company has sold to Buyer the **19.75** pounds of phosphorus credits.

WITNESS the following signature:

Eco-Cap, LLC, a Virginia limited liability company

By: Casey Jensen, President

Date: 4/14/25

Commonwealth of Virginia

County of Chesapeake, to-wit

Sworn to and subscribed before me this 14 day of April, 2025, by Casey Jensen, President, on behalf of Eco-Cap, LLC, a Virginia limited liability company.

My commission expires: 9/30/27

Lellene Renee Saunders
Notary Public

Project Name: Transcontinental Gas Pipe Line Company, LLC
Permittee: TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
Phosphorus Credits: 19.75 lbs.
Associated Nitrogen Credit: 152.15 lbs.

9

NOTE:
AN ANALYSIS OF THE RECEIVING WATERS HAS DETERMINED THAT THE PROJECT DOES NOT DRAIN DIRECTLY TO IMPAIRED WATERS THAT WOULD PRECLUDE THE EXCHANGE OF NUTRIENT CREDITS TO SATISFY THE WATER QUALITY REQUIREMENTS.

Eco-Cap, LLC

BILL OF SALE

THIS BILL OF SALE is made as of April 14th, 2025, by Eco-Cap, LLC, a Virginia limited liability company ("Seller"), to **TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC** ("Buyer").

WHEREAS, Seller and Buyer have entered into that certain Nutrient Credit Sale Agreement as of April 4, 2025 (the "Agreement") for the sale by the Seller and purchase by the Buyer of nonpoint source phosphorus credits generated within the Birch Creek Nutrient Bank in Halifax County, Virginia (the "Bank").

NOW, THEREFORE, for and in consideration of the payment of the Purchase Price (as defined in the Agreement) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller hereby sells, transfers, assigns, conveys, delivers and sets over to Buyer; its successors and assigns, **19.75** pounds of phosphorus credits and retires **152.15** pounds of nitrogen credits associated with the phosphorus credits generated at the Bank as such are described in the Agreement.

TO HAVE AND TO HOLD all such phosphorus credits hereby sold and transferred to Buyer and its successors and assigns forever.

IN WITNESS WHEREOF, Seller has caused this Bill of Sale to be executed by its duly authorized representative as of the date first above written.

Eco-Cap, LLC

By: Casey Jensen, President

Project Name: Transcontinental Gas Pipe Line Company, LLC
Permittee: TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
Phosphorus Credits: 19.75 lbs.
Associated Nitrogen Credit: 152.15 lbs.

10

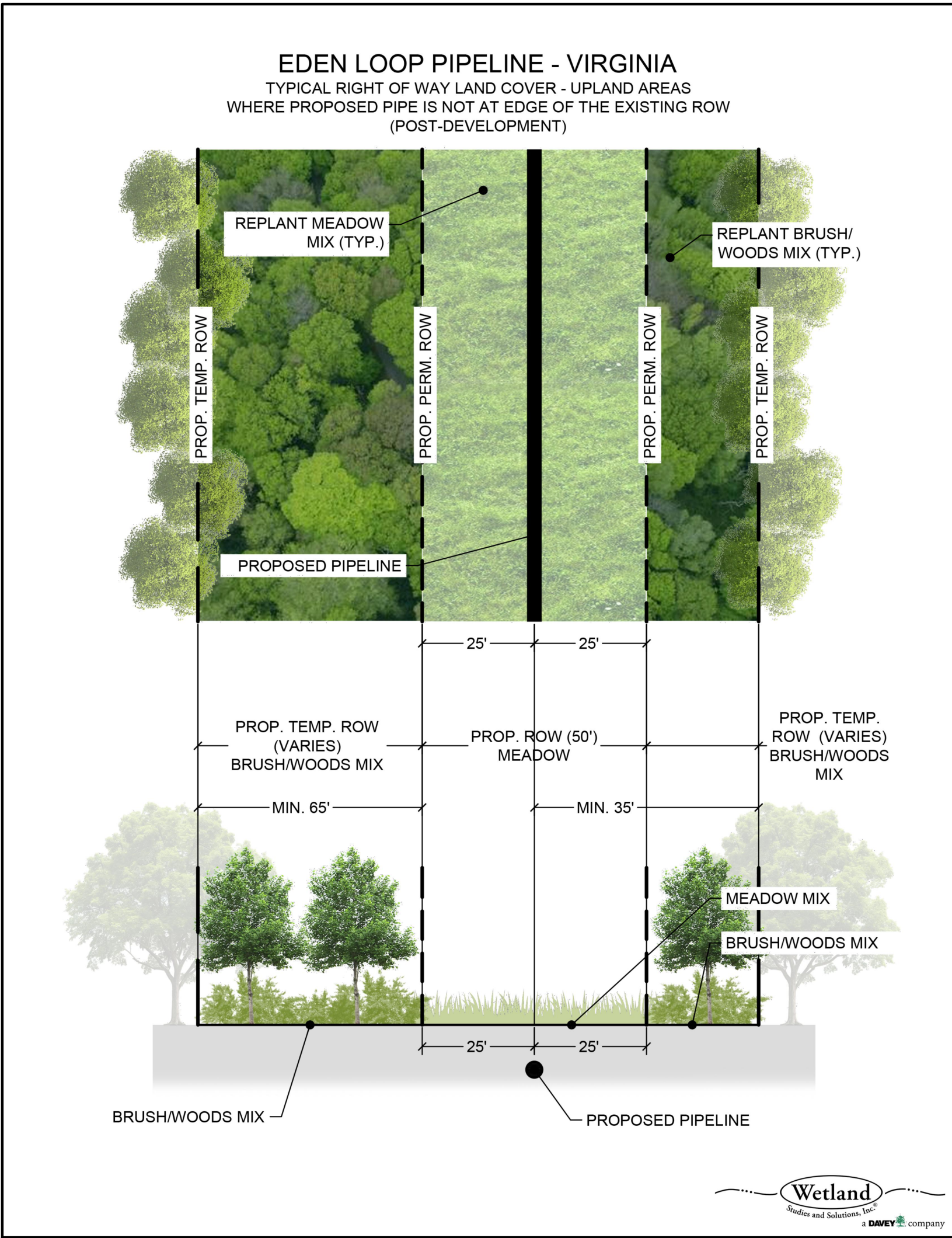
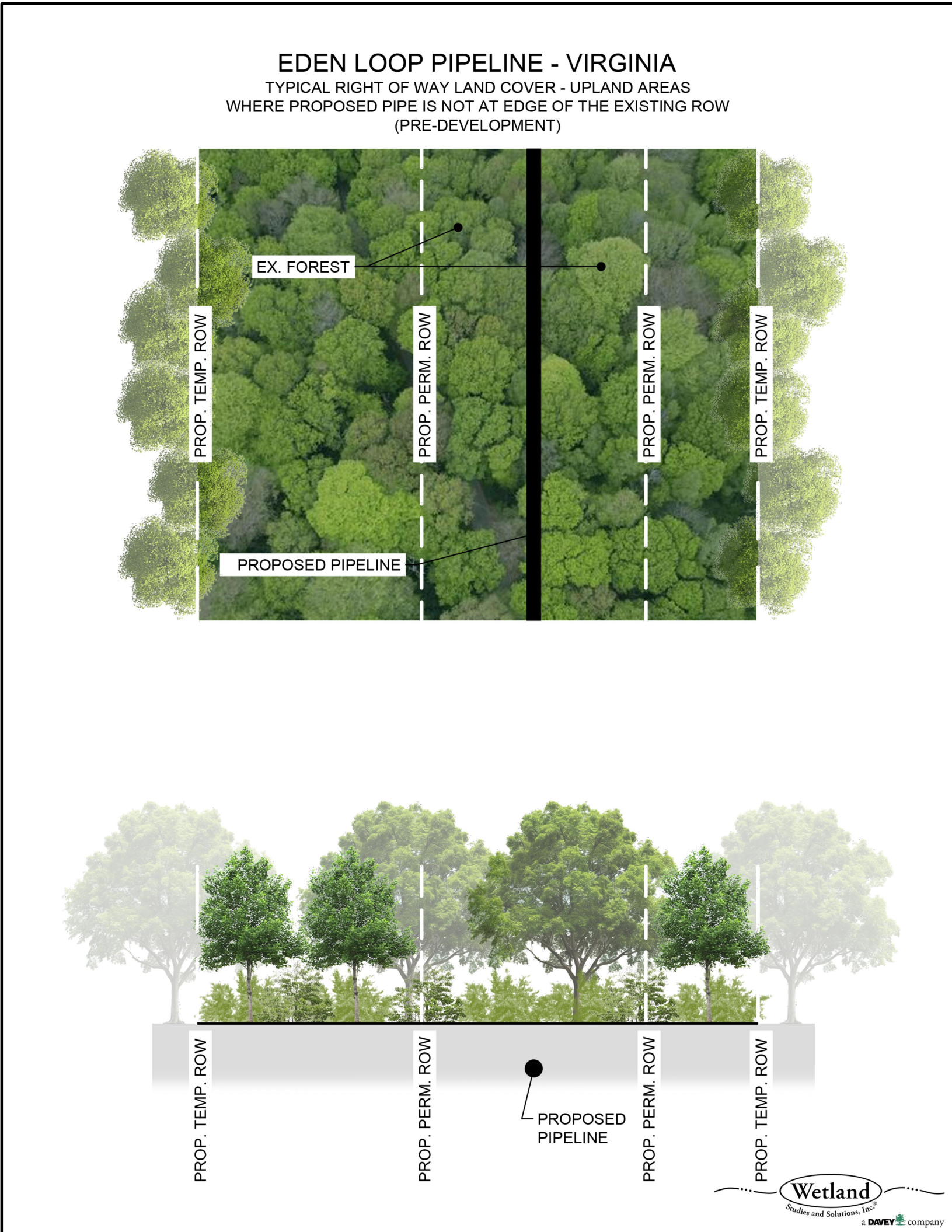
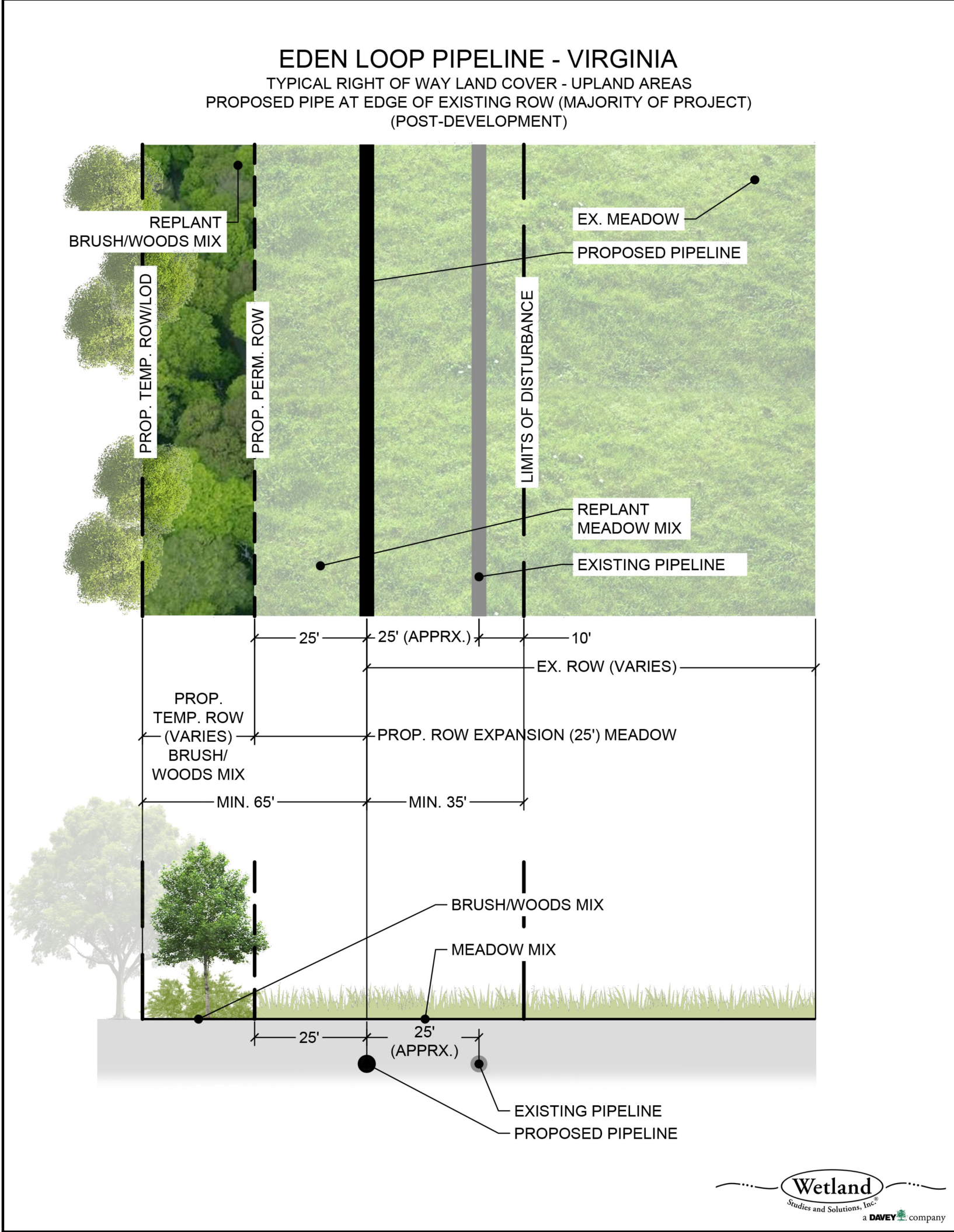
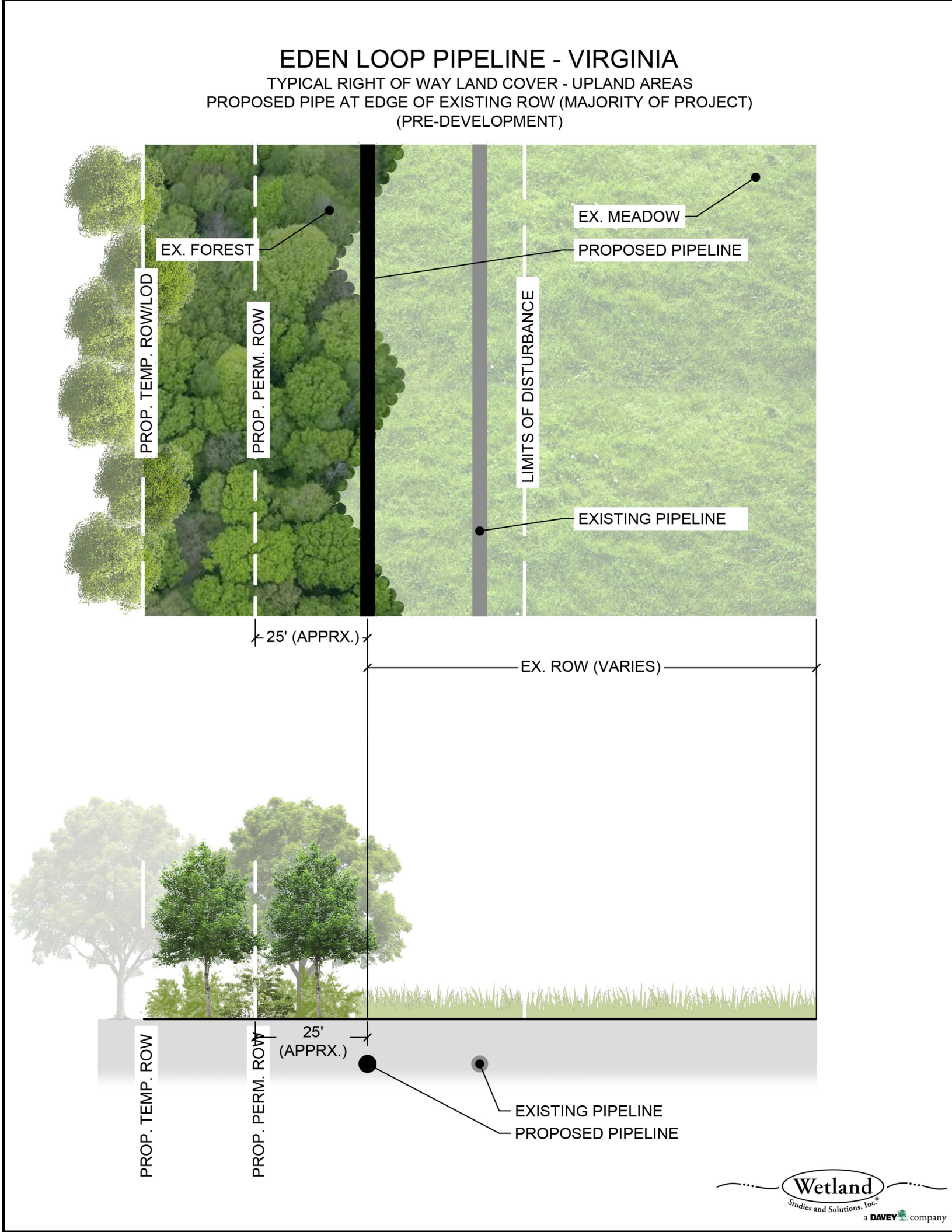


REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK. APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
WATER QUALITY LAND COVER
DETAILS
PITTSYLVANIA COUNTY, VIRGINIA



DRAWN BY: JAB	DATE: 5-30-25	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: JML	DATE: 5-30-25	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: RCM	DATE: 5-30-25	DRAWING NUMBER: VA-EDEN-SMQUAL-064	SHEET 64 OF 66
WO: C1009564	RID: 500		



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK. APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC SOUTHEAST SUPPLY ENHANCEMENT PROJECT EDEN LOOP WATER QUALITY LAND COVER DETAILS PITTSYLVANIA COUNTY, VIRGINIA				Williams	
DRAWN BY: JAB	DATE: 5-30-25	ISSUED FOR BID:	SCALE: AS NOTED		
CHECKED BY: JML	DATE: 5-30-25	ISSUED FOR CONSTRUCTION:	REVISION:		
APPROVED BY: RCM	DATE: 5-30-25	DRAWING NUMBER: VA-EDEN-SMQUAL-065		SHEET 65 OF 66	
WO: C1009554	RID: 500				

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 4.1

BMP Design Specifications List: 2024 Sds & Specs

Site Summary

Project Title: Trotters Creek - Dan River (030101030903)

Date: 05/28/2025

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0
Mixed Open (acres)	0.00	9.32	0.00	3.59	12.91	100
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0
					12.91	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.12
Treatment Volume (ft ³)	5,676
TP Load (lb/yr)	4.81
TN Load (lb/yr)	21.98

Total TP Load Reduction Required (lb/yr)

1.45

Site Compliance Summary

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	4.81
Remaining TP Load Reduction (lb/yr) Required	1.45

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	0.00	6.00	0.00	0.00	0.00
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Total Area (acres)	0.00	0.00	0.00	0.00	0.00	0.00

Summary Print

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 4.1

BMP Design Specifications List: 2024 Sds & Specs

Site Summary

Project Title: Lower Sandy River (030101031003)

Date: 05/28/2025

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0
Mixed Open (acres)	0.00	5.43	0.00	0.00	5.43	100
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0
					5.43	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.11
Treatment Volume (ft ³)	2,188
TP Load (lb/yr)	1.85
TN Load (lb/yr)	8.47

Total TP Load Reduction Required (lb/yr)

0.64

Site Compliance Summary

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	1.85
Remaining TP Load Reduction (lb/yr) Required	0.64

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Total Area (acres)	0.00	0.00	0.00	0.00	0.00	0.00

Summary Print

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 4.1

BMP Design Specifications List: 2024 Sds & Specs

Site Summary

Project Title: Sandy Creek (West) - Dan River (030101031004)

Date: 05/28/2025

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0
Mixed Open (acres)	0.00	7.42	0.00	0.34	7.76	100
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0
					7.76	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.11
Treatment Volume (ft ³)	5,148
TP Load (lb/yr)	2.88
TN Load (lb/yr)	12.27

Total TP Load Reduction Required (lb/yr)

0.67

Site Compliance Summary

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	2.88
Remaining TP Load Reduction (lb/yr) Required	0.67

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Total Area (acres)	0.00	0.00	0.00	0.00	0.00	0.00

Summary Print

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 4.1

BMP Design Specifications List: 2024 Sds & Specs

Site Summary

Project Title: White Oak Creek - Banister River (030101050103)

Date: 05/28/2025

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0
Mixed Open (acres)	0.00	12.75	0.00	0.77	13.52	100
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0
					13.52	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.11
Treatment Volume (ft ³)	5,510
TP Load (lb/yr)	4.70
TN Load (lb/yr)	21.48

Total TP Load Reduction Required (lb/yr)

1.18

Site Compliance Summary

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	4.70
Remaining TP Load Reduction (lb/yr) Required	1.18

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Total Area (acres)	0.00	0.00	0.00	0.00	0.00	0.00

Summary Print

Virginia Runoff Reduction Method Worksheet

DEQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 4.1

BMP Design Specifications List: 2024 Sds & Specs

Site Summary

Project Title: Cherrystone Creek (030101050104)

Date: 05/28/2025

Site Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0
Mixed Open (acres)	0.00	1.66	0.08	2.56	4.30	100
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0
					4.30	100

Site Tv and Land Cover Nutrient Loads

Site Rv	0.13
Treatment Volume (ft ³)	2,195
TP Load (lb/yr)	1.76
TN Load (lb/yr)	8.04

Total TP Load Reduction Required (lb/yr)

0.64

Site Compliance Summary

Total Runoff Volume Reduction (ft ³)	0
Total TP Load Reduction Achieved (lb/yr)	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00
Remaining Post Development TP Load (lb/yr)	1.76
Remaining TP Load Reduction (lb/yr) Required	0.64

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Mixed Open (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Total Area (acres)	0.00	0.00	0.00	0.00	0.00	0.00

Summary Print

REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK APP

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC

SOUTHEAST SUPPLY ENHANCEMENT PROJECT

EDEN LOOP

WATER QUALITY LAND COVER

DETAILS

PITTSYLVANIA COUNTY, VIRGINIA

DRAWN BY: JAB

CHECKED BY: JML

APPROVED BY: RCM

W.O. C1009554

DATE: 5-30-25

DATE: 5-30-25

DATE: 5-30-25

ISSUED FOR BID:

ISSUED FOR CONSTRUCTION:

SCALE: AS NOTED

REVISION:

SHEET 66

OF 66