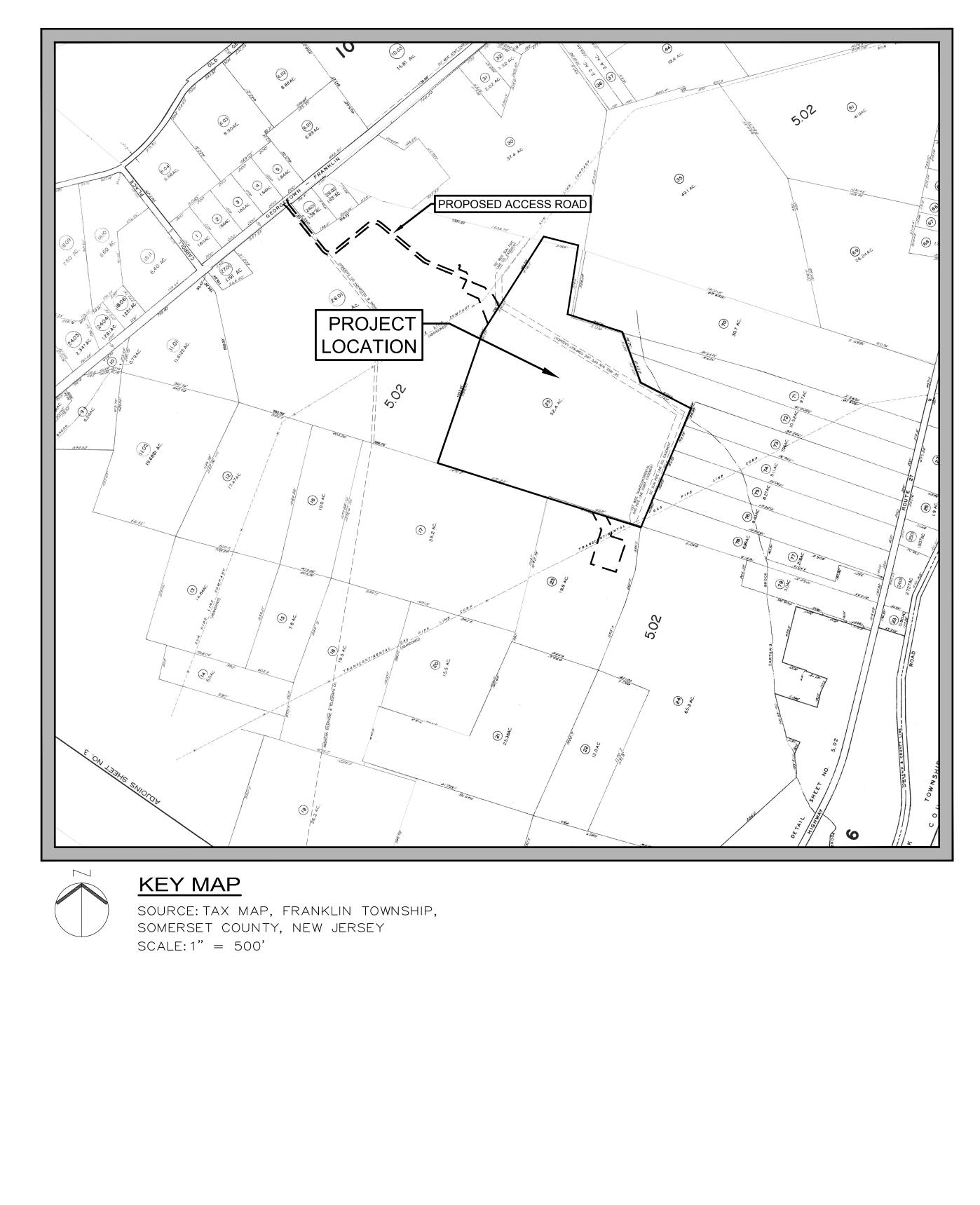
NJDEP LAND USE PERMIT PLANS FOR THE NORTHEAST SUPPLY ENHANCEMENT PROJECT COMPRESSOR STATION 206 - HIGGINS FARM ACCESS ROAD



FRESHWATER WETLANDS AND FLOOD HAZARD AREA PLANS

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC





AERIAL KEY MAP SOURCE: AERIAL MAPS, 2015 SCALE: 1'' = 500'

	DRAWING LIST		
DWG. NO.	DWG. TITLE	ISSUED	LAST REVISED
1	COVER SHEET	1/15/2020	-
2	OVERALL SITE PLAN AND GENERAL NOTES	1/15/2020	-
3	WETLAND PERMIT PLAN	1/15/2020	-
4	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	1/15/2020	-
5	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	1/15/2020	-
6	ACCESS ROADWAY PROFILE	1/15/2020	-
7	CONSTRUCTION DETAILS	1/15/2020	-
8	CONSTRUCTION DETAILS	1/15/2020	-

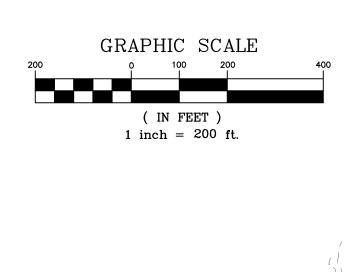
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	-	37207 COA NO. 24GA28122400
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I AM A OF THE PROPOS AND CC I 4433 I 4434 I 4434 I 4434 I 4445 I 4455 I 4455 I	DULY REGISTER STATE OF NEW SED ENVIRONMEN DRRESPOND WITH WILLIA HIGHWAY PROFES N.J. LIC. NO. WILLIA HIGHWAY PROFES N.J. LIC. NO. WILLIA ENTIFICATE OF SONS MUST BE VER RETIFICATE OF SONS SHALL BE A DO NOT SCALE THE ITRACT DRAWINGS OR SPEC SIONS SHALL BE A DO NOT SCALE THE ITRACT DRAWINGS OF SONS SHALL DE A DO NOT SCALE THE ITRACT DRAWINGS OF SONS SHALL NOT BE STRACTORS SHALL NOT ESE DRAWINGS ARE WINGS SHALL NOT BE STRACTORS SHALL NOT ENTRACTORS SHALL NOT ENTRACTORS SHALL NOT DE OLED T NOR AND/OR MODIFIC HE WRITTEN PERMIS SHALL NOT BE STRACTORS SHALL NOT ENTRACTORS SHALL NOT ENTRACTORS SHALL NOT ENTRACTORS SHALL NOT DO LIEDT TO PAULUS, SOKU	The DETAILED ENGINEER UNDER UNDER DERBY AND I HEREBY CERTFY THAT THE ITAL DISTURBANCES SHOWN ARE ACCURATE ITAL DISTURBANCES SHOWN ARE ACCURATE ITHE DETAILED ENGINEERING DRAWINGS. AM SALMON, P.E. PS&S, LLC 34, SUITE A-4, WALL, NJ 07727 SIONAL ENGINEER 1319 COA NO. 24GA28032700 DATE PAULUS, SOKOLOWSKI AND SARTOR, LLC. 1433 ROUTE 34 SUITE A4 WALL, NJ 07727 PHONE: (848) 206-2626 AUTHORIZATION NO. 24GA28032700 FIED BY THE COMMERCION. NOITY PAULUS, SOKOLOWSKI AND SARTOR, LLC. Solutions BEFORE PROCEEDING WITH CONSTRUCTION. IFUS SERVES, AMBIGUTE 30 DISCOLOUSING SOLUTIONS DEFORE NOITY PAULUS, SOKOLOWSKI SOLUTIONS DEFORE NOITY PAULUS, SOKOLOWSKI AND SARTOR, LLC SOLUTION INSULFY, SOLUTION OF THIS DOCUMENT OR ANY PORTION THEREOF DISCON OF AULUS, SOKOLOWSKI AND SARTOR, LLC. IS E SECONFICALLY DESIGNATED AS "CONSTRUCTION ISSUEF", ENGED FOR CONSTRUCTION OR IMPROYEMENTS DEPICTED NOTHER PROJECT. CATON OF THIS DOCUMENT OR ANY PORTION THEREOF E SECONFICALUS, SOKOLOWSKI AND SARTOR, LLC. IS E SECONFICALLY DESIGNATED AS "CONSTRUCTION ISSUEF", INTO A SARTOR, LLC ALL RIGHTS RESERVED. E SECONFICALLY DESIGNATED AS "CONSTRUCTION ISSUEF", E SECONFICALLY DESIGNATED AS "CONSTRUCTION ISSUEF", E SECONFICALLY SOLUS, SOKOLOWSKI AND SARTOR, LCC. IS E SECONFICALUS, SOKOLOWSKI AND SARTO
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	FLOOD HAZARD AREA AND FRESHWATER
NOTES ON USE OF PLANS:	WETLANDS NOTES:
 UNLESS THESE PERMIT DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE," THESE DRAWINGS SHALL NOT BE USED FOR PERMITTING ASSOCIATED WITH CONSTRUCTION OR THE IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN PERMITTING DOCUMENTS. THESE PLANS ARE FOR NJDEP PERMITTING ONLY, NO CONSTRUCTION IS TO BE BASED UPON THESE PLANS. 	1. THE PURPOSE OF THESE PLANS IS TO SECURE NEW JERSE FRESHWATER WETLANDS, FLOOD HAZARD AREA FLOODPLAIN VERIFICAT FOR THE PROPOSED CONSTRUCTION OF A COMPRESSION STATION T TOWNSHIP, SOMERSET COUNTY AS PART OF THE NORTHEAST SUPPLY
2. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD DURING CONSTRUCTION BY THE CONTRACTOR. NOTIFY PAULUS, SOKOLOWSKI AND SARTOR, LLC OF ANY CONFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE CONTRACT DRAWINGS OR SPECIFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.	A. FRESHWATER WETLAND INDIVIDUAL PERMIT – N.J.A.C. 7:7A–7.2 B. STORMWATER MANAGEMENT – N.J.A.C. 7:8
 ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS. 	2. THE APPLICANT/OWNER SHALL SECURE ALL PROPOSED PERMANEN ACCESS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE OWN
 THESE CONTRACT DRAWINGS CONTAIN DATA INTENDED SPECIFICALLY FOR THE NOTED PROJECT AND CLIENT. THEY ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS PROJECT OR FOR REUSE ON ANY OTHER PROJECT. 	EASEMENTS OR RIGHTS OF ACCESS BEYOND THE LIMITS SHOWN, AS 3. THE CONTRACTOR IS ADVISED THAT STAGING, STORING AND STOCK ACCOMPLISHED OUTSIDE NJDEP REGULATED FRESHWATER WETLAND
5. THE COPYING AND/OR MODIFICATION OF THIS DOCUMENT OR ANY OTHER PORTION THEREOF WITHOUT THE WRITTEN PERMISSION OF PAULUS, SOKOLOWSKI, AND SARTOR, LLC IS EXPRESSLY PROHIBITED.	RIPARIAN ZONES TO THE MAXIMUM EXTENT PRACTICABLE AND IN GUIDELINES.
6. INFORMATION FOR DESIGN LAYOUT IS CONTAINED SOLELY IN THE WRITTEN DIMENSIONS, BEARINGS, AND ANGLES CONTAINED ON THE DRAWINGS.	4. THE CONTRACTOR SHALL EXCAVATE, STORE AND REPLACE TOPSOIL N SHALL MATCH EXISTING GRADE. ALL EXCESS MATERIAL SHALL BE DIS
7. THIS DIMENSIONAL INFORMATION IS NOT WARRANTED NOR SHOULD IT BE CONSIDERED AS COMPLETE FOR EVERY ASPECT OF THE LAYOUT. STANDARD PRACTICE REQUIRES THAT THE LAYOUT PERSON CHECK THE DIMENSIONAL DATA CONSISTENCY AND TO PERFORM SURVEY CALCULATIONS WHICH ARE CUSTOMARY FOR CONSTRUCTION LAYOUT. IN THE EVENT THAT A QUESTION OR INCONSISTENCY IS DISCOVERED, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, PAULUS, SOKOLOWSKI, AND SARTOR, LLC.	 ALL OR A PORTION OF THE SITE LIES WITHIN A FLOOD HAZARD ARE ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONME PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONT (609) 292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCT
 THE GRAPHICAL INFORMATION CONTAINED IN ELECTRONIC FILES IS INTENDED AS DRAWING DATA ONLY. IT IS NOT INTENDED TO SERVE AS SURVEY LAYOUT DATA. 	6. NEW JERSEY STATE OPEN WATERS AND WETLANDS AND WATERS OF ECOLSCIENCES, ECOLOGY & ENVIRONMENTAL, INC., AND AMY S. 2016–2018 AND BY TRANSCONTINENTAL GAS PIPELINE COMPANY, L A MAPPING GRADE TRIMBLE GPS WAS USED TO COLLECT FRESHW
9. ALL PROPOSED FITTING ANGLES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CUTTING.	MAPPING GRADE LOCATIONS AND DATA WERE RECORDED BY C COMPANY, LLC TO MEET PLS CERTIFICATION REQUIREMENTS REQUIRE
GENERAL NOTES: 1. AS INDICATED IN THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," SUFFICIENT CONSTRUCTION WARNING	 WITHIN THE SURVEY CORRIDOR ECOLOGY AND ENVIRONMENT, INC. AN RIPARIAN ZONES UTILIZING WATERS OF THE UNITED STATES FIELD ECOLOGY AND ENVIRONMENT, INC. USED REMOTE SENSING FOR FEA
SIGNS ARE TO BE PROVIDED AND MAINTAINED BY CONTRACTORS PERFORMING CONSTRUCTION WORK. SAID SIGNS ARE TO BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND APPROVED BY THE APPROPRIATE MUNICIPAL INSPECTION PERSONNEL.	THE SURVEY CORRIDOR FROM OUTSIDE. 8. PROPOSED PROJECT IS SUBJECT TO SOMERSET-UNION SOIL CONSER
2. THE CONTRACTOR SHALL PROVIDE SUCH TEMPORARY DRAINAGE, SOIL EROSION, AND DUST CONTROL MEASURES AS MAY BE INDICATED ON THE PLANS AND/OR AS DIRECTED BY THE MUNICIPAL ENGINEER OR OTHER AGENCIES OR DEPARTMENTS TO SATISFY ENVIRONMENTAL CONCERNS.	9. PRIOR TO ANY SITE DISTURBANCE, ALL WETLANDS AND OR WETLA IDENTIFIED IN THE FIELD WITH ORANGE "MIRAFI" PROTECTIVE FENCING FIVE FEET UPSTREAM OF PROTECTIVE FENCING AND DOWNSTREAM OF SHALL VERIFY THAT ALL PERMITS AS MAY BE REQUIRED BY LOCAL,
3. LOCATION OF EXISTING INLETS, CATCH BASINS AND MANHOLES MUST BE FIELD VERIFIED BEFORE WORK MAY COMMENCE. ANY CONFLICTING INFORMATION FROM THAT SHOWN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER, PAULUS, SOKOLOWSKI, AND SARTOR, LLC.	HAND, ON THE JOB AND VALID PRIOR TO COMMENCING WORK. F CONSTRUCTION.
4. ALL ROADWAYS ARE TO BE PASSABLE FOR FIRE, POLICE, & EMERGENCY VEHICLES DURING CONSTRUCTION. NOTICE SHALL BE GIVEN TO AGENCIES 72 HOURS IN ADVANCE IF WORK MAY IMPACT EMERGENCY RESPONSE.	10. NON-PAVED AREAS IN FRESHWATER WETLANDS TO RECEIVE 18 INCHE
5. UNLESS SPECIFICALLY SHOWN HEREIN, THE DESIGN ENGINEER HAS NOT CONDUCTED AN INVESTIGATION OR	11. CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS SUBSTANCES (IF STORAGE OR PROCESSING OF HAZARDOUS SUBSTANCES IN REGULAT
PROVIDED DATA ON THE NATURE OF, OR STRUCTURAL SUITABILITY OF ANY SUBSURFACE MATERIALS. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IN WRITING OF ANY UNUSUAL SOIL OR ROCK CONDITIONS ENCOUNTERED.	11. THE NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD ASSOCIATED NJDEP METHOD 5 (FLOOD HAZARD AREA DETERMINED BY APPROXIM)
6. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE IN PLACE PRIOR TO ANY SITE DISTURBANCE.	12. STAGING, STORING AND STOCKPILING OF MATERIALS AND EQUIPMEN BE ACCOMPLISHED OUTSIDE THE RIPARIAN ZONE. WHERE IT IS NI RIPARIAN ZONE, THESE ACTIVITIES, AS WELL AS ACCESS TO THE UT
7. CONTRACTOR TO RESTORE GROUND SURFACE OF GAS PIPELINE TRENCH, CONSTRUCTION STAGING AREAS, AND ALL OTHER DISTURBED AREAS TO THEIR ORIGINAL CONDITION OR BETTER, OR AS SPECIFIED IN THESE PLANS.	MAXIMUM EXTENT PRACTICABLE, BE UNDERTAKEN IN ACTIVELY DISTU
8. NO CONSTRUCTION SHALL BE PERFORMED ON WEEKENDS OR DURING NIGHTS IN RESIDENTIAL AREAS WITHOUT PRIOR APPROVAL OF WILLIAMS.	
9. ALL TREES REMOVED DURING CLEARING SHALL BE TRIMMED AND PLACED AT EDGE OF EASEMENT FOR LANDOWNER UNLESS OTHERWISE NOTED ON PLANS.	
REFERENCE NOTES	
1. EXISTING CONDITIONS AND REGULATED FEATURES SHOWN HEREON ARE BASED UPON SURVEY INFORMATION PREPARED BY D.W. SMITH ASSOCIATES, INC. AND WILLIAMS TRANSCONTINENTAL PIPE LINE COMPANY, LLC.	
2. THE VERTICAL DATUM REFERS TO NAVD 88 TOPOGRAPHICAL DATA. (CONVERSION TO NVGD 1929; + 1.04 FT.)	
3. THE HORIZONTAL DATUM REFERS TO NAD83 NEW JERSEY STATE PLANE COORDINATE SYSTEM.	
4. LOT LINES AND RIGHT-OF-WAY LINES SHOWN HEREON WERE TAKEN FROM INFORMATION AS REFERENCED ABOVE.	

- 4. LOT LINES AND RIGHT-OF-WAY LINES SHOWN HEREON WERE TAKEN FROM INFORMATION AS REFERENCED ABOVE. TOPOGRAPHIC CONTOURS ON LOT 25 BASED UPON FIELD SURVEY PERFORMED BY D.W. SMITH ASSOCIATES, LLC OCTOBER 2016-JUNE 2017, PROVIDED BY TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. TOPOGRAPHY ON LOT 26.01 TAKEN FROM AVAILABLE LIDAR TOPOGRAPHY.
- 6. PROPOSED SITE IMPROVEMENTS AND PROPOSED LIMITS OF DISTURBANCE TAKEN FROM PLANS ENTITLED TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC POST CONSTRUCTION STORMWATER MANAGEMENT PLAN -COMPRESSOR STATION NO. 206 HIGGINS FARM ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM.
- 7. PRIOR TO ANY SITE DISTURBANCE, ALL WETLANDS AND OR WETLANDS TRANSITION AREA LIMITS SHALL BE CLEARLY IDENTIFIED IN THE FIELD WITH ORANGE "MIRAFI" PROTECTIVE FENCING OR APPROVED ALTERNATE. LOCATE SILT FENCE FIVE FEET UPSTREAM OF PROTECTIVE FENCING AND DOWNSTREAM OF CLEARING LIMITS AS SHOWN. THE CONTRACTOR SHALL VERIFY THAT ALL PERMITS AS MAY BE REQUIRED BY LOCAL, COUNTY, STATE, OR FEDERAL REGULATIONS ARE IN HAND, ON THE JOB AND VALID PRIOR TO COMMENCING WORK. PS&S SHALL STAKE THESE BOUNDARIES PRIOR TO CONSTRUCTION.
- 8. NEW JERSEY STATE PLANE COORDINATES IN NAD83 AT APPROXIMATELY 1000-FT INTERVALS ALONG PROJECT: #1 NORTH 573,432', EAST 462,945'
- #2 NORTH 573,265', EAST 463,676' #3 NORTH 572,706', EAST 464,467'
- #4 NORTH 571,780', EAST 464,630' #5 NORTH 571,911', EAST 465,195'

OWNER / APPLICANT

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC 2800 POST OAK BLVD. HOUSTON, TEXAS 77056



AREA AND FRESHWATER

THESE PLANS IS TO SECURE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION S, FLOOD HAZARD AREA FLOODPLAIN VERIFICATION AND FLOOD HAZARD AREA INDIVIDUAL PERMITS CONSTRUCTION OF A COMPRESSION STATION 206 AND ASSOCIATED IMPROVEMENTS IN FRANKLIN COUNTY AS PART OF THE NORTHEAST SUPPLY ENHANCEMENT PROJECT.

AGEMENT – N.J.A.C. 7:8

ER SHALL SECURE ALL PROPOSED PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS OF HE PLANS PRIOR TO CONSTRUCTION. THE OWNER/CONTRACTOR SHALL ALSO SECURE NECESSARY OF ACCESS BEYOND THE LIMITS SHOWN, AS DEEMED NECESSARY.

ADVISED THAT STAGING, STORING AND STOCKPILING OF MATERIALS AND EQUIPMENT SHALL BE DE NJDEP REGULATED FRESHWATER WETLANDS, WETLANDS BUFFERS OR FLOOD HAZARD AREA THE MAXIMUM EXTENT PRACTICABLE AND IN ACCORDANCE WITH NJDEP LINEAR CONSTRUCTION

ALL EXCAVATE, STORE AND REPLACE TOPSOIL WITHIN TRENCH LIMITS. PROPOSED FINISHED GRADE GRADE. ALL EXCESS MATERIAL SHALL BE DISPOSED OF LAWFULLY.

THE SITE LIES WITHIN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATIONS AT MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.

PEN WATERS AND WETLANDS AND WATERS OF THE U.S. DELINEATION DATA WERE COLLECTED BY OGY & ENVIRONMENTAL, INC., AND AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC. IN RANSCONTINENTAL GAS PIPELINE COMPANY, LLC AND ECOLOGY & ENVIRONMENT, INC. IN 2019. RIMBLE GPS WAS USED TO COLLECT FRESHWATER WETLANDS IN THE FIELD. IN NEW JERSEY CATIONS AND DATA WERE RECORDED BY CIVIL SURVEY OF WILLIAMS STRATEGIC SOURCING EET PLS CERTIFICATION REQUIREMENTS REQUIRED BY NJDEP LETTER OF INTERPRETATION (LOI).

ORRIDOR ECOLOGY AND ENVIRONMENT, INC. AND AMY GREENE ENVIRONMENTAL ESTABLISHED THE IZING WATERS OF THE UNITED STATES FIELD DATA. OUTSIDE SURVEY CORRIDOR FEATURES DNMENT, INC. USED REMOTE SENSING FOR FEATURES WHO'S TRANSITION AREAS ENCROACH INTO R FROM OUTSIDE.

SUBJECT TO SOMERSET-UNION SOIL CONSERVATION DISTRICT PLAN CERTIFICATION APPROVAL.

DISTURBANCE, ALL WETLANDS AND OR WETLANDS TRANSITION AREA LIMITS SHALL BE CLEARLY LD WITH ORANGE "MIRAFI" PROTECTIVE FENCING OR APPROVED ALTERNATE. LOCATE SILT FENCE OF PROTECTIVE FENCING AND DOWNSTREAM OF CLEARING LIMITS AS SHOWN. THE CONTRACTOR ALL PERMITS AS MAY BE REQUIRED BY LOCAL, COUNTY, STATE, OR FEDERAL REGULATIONS ARE IN AND VALID PRIOR TO COMMENCING WORK. PS&S SHALL STAKE THESE BOUNDARIES PRIOR TO

FRESHWATER WETLANDS TO RECEIVE 18 INCHES OF TOPSOIL/INSITU MATERIAL.

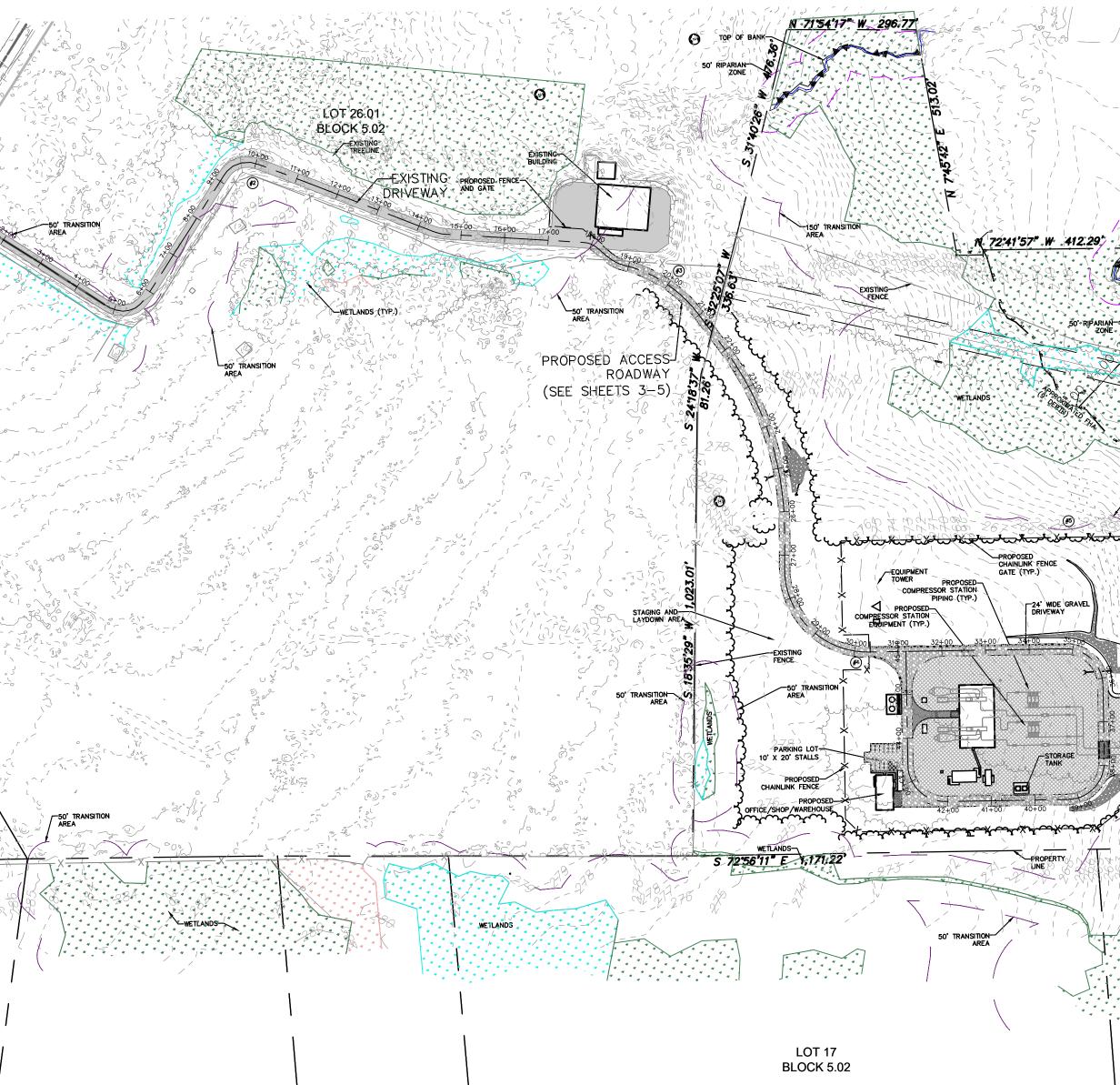
SPOSE OF ANY HAZARDOUS SUBSTANCES (IF ENCOUNTERED) OFF-SITE. NO PLACEMENT, SING OF HAZARDOUS SUBSTANCES IN REGULATED AREAS PERMITTED.

OOD HAZARD AREA DESIGN FLOOD ASSOCIATED WITH CARTER'S BROOK WERE DETERMINED USING OOD HAZARD AREA DETERMINED BY APPROXIMATION) ACCORDING TO N.J.A.C. 7:13-3.5.

ND STOCKPILING OF MATERIALS AND EQUIPMENT SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, JTSIDE THE RIPARIAN ZONE. WHERE IT IS NECESSARY TO CONDUCT THESE ACTIVITIES IN THE ACTIVITIES, AS WELL AS ACCESS TO THE UTILITY LINE DURING CONSTRUCTION, SHALL, TO THE CTICABLE, BE UNDERTAKEN IN ACTIVELY DISTURBED AREAS.

	FL	OOD HAZARD AREA	METES AND BOUN	IDS
Line #	Length	Direction	START	END
L1	16.390	S1° 12' 48.59"E	N=572590.5184 E=465198.0982	N=572574.1324 E=465198.4453
L2	33.609	S8• 58' 56.56"E	N=572574.1324 E=465198.4453	N=572540.9358 E=465203.6927
L3	88.932	S2• 03' 55.39"W	N=572540.9358 E=465203.6927	N=572452.0613 E=465200.4875
L4	25.330	S7• 07' 37.92"W	N=572452.0613 E=465200.4875	N=572426.9268 E=465197.3448
L5	31.203	S15° 04' 51.26"E	N=572426.9268 E=465197.3448	N=572396.7982 E=465205.4633
L6	22.074	S45° 27' 06.17"E	N=572396.7982 E=465205.4633	N=572381.3129 E=465221.1948
L7	40.335	S29° 15' 06.43"E	N=572381.3129 E=465221.1948	N=572346.1213 E=465240.9044
L8	28.747	S26° 08' 47.26"E	N=572346.1213 E=465240.9044	N=572320.3159 E=465253.5723
L9	56.168	S6° 44' 53.41"W	N=572320.3159 E=465253.5723	N=572264.5371 E=465246.9723
L10	35.727	S25° 39' 40.23"E	N=572264.5371 E=465246.9723	N=572232.3335 E=465262.4440
L11	35.388	S0° 25' 28.96"W	N=572232.3335 E=465262.4440	N=572196.9466 E=465262.1816
L12	42.555	S32• 13' 29.32"E	N=572196.9466 E=465262.1816	N=572160.9463 E=465284.8740
L13	15.355	S54° 19' 39.39"E	N=572160.9463 E=465284.8740	N=572151.9920 E=465297.3480
L14	18.974	S53° 14' 24.10"E	N=572151.9920 E=465297.3480	N=572140.6365 E=465312.5493
L15	87.262	S22* 28' 08.89"E	N=572140.6365 E=465312.5493	N=572059.9987 E=465345.8997
L16	20.786	S37° 39' 49.96"E	N=572059.9987 E=465345.8997	N=572043.5445 E=465358.6004
L17	82.215	S50° 12' 46.54"E	N=572043.5445 E=465358.6004	N=571990.9323 E=465421.7765
L18	25.279	S22° 47' 49.51"E	N=571990.9323 E=465421.7765	N=571967.6282 E=465431.5712
L19	25.259	S43° 14' 15.91"E	N=571967.6282 E=465431.5712	N=571949.2266 E=465448.8743
L20	23.886	S79° 07' 11.24"E	N=571949.2266 E=465448.8743	N=571944.7179 E=465472.3312

	FL	OOD HAZARD AREA	METES AND BOUN	IDS
Line #	Length	Direction	START	END
L21	25.796	S63* 22' 32.86"E	N=571944.7179 E=465472.3312	N=571933.157 E=465495.392
L22	35.893	S28° 15' 16.81"E	N=571933.1576 E=465495.3922	N=571901.541 E=465512.383
L23	35.710	S5° 12' 36.14"E	N=571901.5413 E=465512.3836	N=571865.979 E=465515.626
L24	32.903	S27° 01' 14.58"E	N=571865.9793 E=465515.6263	N=571836.668 E=465530.574
L25	33.298	S50° 27' 10.16"E	N=571836.6682 E=465530.5744	N=571815.466 E=465556.250
L26	22.493	S31° 48' 26.92"E	N=571815.4666 E=465556.2508	N=571796.351 E=465568.106
L27	43.134	S12* 25' 48.69"E	N=571796.3511 E=465568.1064	N=571754.228 E=465577.390
L28	14.152	S4° 55' 02.83"E	N=571754.2284 E=465577.3909	N=571740.128 E=465578.604
L29	12.587	S54° 03' 12.48"E	N=571740.1285 E=465578.6041	N=571732.739 E=465588.794
L30	20.359	S67• 59' 34.20"E	N=571732.7396 E=465588.7940	N=571725.110 E=465607.670
L31	14.865	S41° 53' 51.82"E	N=571725.1104 E=465607.6700	N=571714.045 E=465617.597
L32	35.715	S8* 38' 51.01"E	N=571714.0456 E=465617.5972	N=571678.736 E=465622.967
L33	38.061	S21° 59' 02.48"E	N=571678.7369 E=465622.9671	N=571643.443 E=465637.215
L34	30.232	S35* 06' 50.77"E	N=571643.4430 E=465637.2152	N=571618.712 E=465654.605
L35	1.443	S36° 14' 12.41"E	N=571618.7127 E=465654.6051	N=571617.549 E=465655.457
L36	8.205	S39° 30' 56.61"W	N=571617.5491 E=465655.4579	N=571611.219 E=465650.237
L37	44.559	S27* 49' 37.01"W	N=571611.2197 E=465650.2374	N=571571.813 E=465629.437
L38	53.036	S12° 40' 50.04"W	N=571571.8138 E=465629.4373	N=571520.071 E=465617.795
L39	14.238	S11° 25' 08.44"E	N=571520.0714 E=465617.7951	N=571506.114 E=465620.614
L40	19.244	S13° 14' 07.28"E	N=571506.1148 E=465620.6141	N=571487.381 E=465625.020



	FL	OOD HAZARD AREA	METES AND BOUN	IDS		
Line #	Length	Direction	START	END		
L41	73.495	S20° 13' 55.32"W	N=571487.3819 E=465625.0200	N=571418.4211 E=465599.6036		
L42	53.561	S17• 51' 25.33"E	N=571418.4211 E=465599.6036	N=571367.4408 E=465616.0276		
L43	74.181	S10° 41' 26.54"E	N=571367.4408 E=465616.0276	N=571294.5470 E=465629.7888		
L44	63.251	S10° 28' 55.63"E	N=571294.5470 E=465629.7888	N=571232.3517 E=465641.2959		
L 4 5	44.573	S29° 34' 14.34"E	N=571232.3517 E=465641.2959	N=571193.5846 E=465663.2925		
L47	56.087	S79° 34' 19.14"E	N=571193.5846 E=465663.2925	N=571183.4328 E=465718.4531		
L48	55.444	N42° 45' 03.26"E	N=571183.4328 E=465718.4531	N=571224.1459 E=465756.0891		
L49	16.388	N29° 44' 10.93"E	N=571224.1459 E=465756.0891	N=571238.3757 E=465764.2176		
L50	13.312	N13° 16' 42.62"E	N=571238.3757 E=465764.2176	N=571251.3320 E=465767.2752		
L51	17.292	N88° 04' 24.87"E	N=571251.3320 E=465767.2752	N=571251.9133 E=465784.5576		
L52	6.610	N29° 15' 50.40"E	N=571251.9133 E=465784.5576	N=571257.6793 E=465787.7886		
L53	19.566	N38° 38' 03.11"W	N=571257.6793 E=465787.7886	N=571272.9631 E=465775.5727		
L54	15.071	N22* 22' 03.75"E	N=571272.9631 E=465775.5727	N=571286.9000 E=465781.3079		
L55	22.779	N76° 30' 51.47"E	N=571286.9000 E=465781.3079	N=571292.2122 E=465803.4590		
L56	24.477	N28° 27' 40.07"E	N=571292.2122 E=465803.4590	N=571313.7310 E=465815.1239		
L57	17.038	N65° 52' 59.53"E	N=571313.7310 E=465815.1239	N=571320.6928 E=465830.6749		
L58	8.911	N83° 40' 51.67"W	N=571320.6928 E=465830.6749	N=571321.6736 E=465821.8179		
L59	35.806	N47° 11' 33.58"E	N=571321.6736 E=465821.8179	N=571346.0053 E=465848.0869		

REV. / DATE DESCRIPTION SSUE

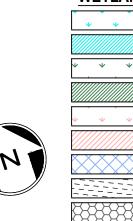
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SIGNATURE I AM A DULY REGISTERED PRO OF THE STATE OF NEW JERSE PROPOSED ENVIRONMENTAL DIS AND CORRESPOND WITH THE D WILLIAM S PS 1433 HIGHWAY 34, S PROFESSIO N.J. LIC. NO. 41319 JULO SIGNATURE CERTIFICATE OF AUTH ALL DIMENSIONS MUST BE VERIFIED BY AND SARTOR, LLC. OF ANY CONFLICTS, CONTRACT DRAWINGS OR SPECIFICATIONS ALL DIMENSIONS SHALL BE AS NOTED THESE CONTRACT DRAWINGS CONTAIN PROJECT OF FOR REUSE ON ANY OTHER THESE DRAWINGS SHALL BE AS NOTED THESE DRAWINGS SHALL BE AS NOTED THESE CONTRACT DRAWINGS CONTAIN PROJECT OF FOR REUSE ON ANY OTHER THESE DRAWINGS SHALL BE AS NOTED THESE DRAWINGS SHALL BE DRAWING THESE CONTRACT DRAWINGS CONTAIN PROJECT AND CLIENT. THEY ARE NOT THESE ON THE STATE ON ANY OTHER THESE DRAWINGS SHALL NOT BE USED OF ROHIBITED. UNLESS THESE DRAWINGS ARE SPECIFICATIONS ALL DIMENSIONS SHALL NOT BE USED OF ROHIBITED. UNLESS DRAWINGS SHALL NOT BE USED OF ROHIBITED. UNLESS TRAWINGS ARE SPECIFICATION OF ROHIBITED. COPYRIGHT 2017 PAULUS, SOKOLOWSKI DELOCK 5.02, LOTS 25, TOWNSHIP OF FRANKLIN, SI SHEET TITLE OVERALLANCE DRAWING GENERALLANCE DRAWING AGENERALLANCE DRAWING AGENERALLANCE DRAWING ALL DIMENSIONS SHALL NOT BE USED OF AND SARTOR, LIC. OT STALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT BE USED OF AND SARTOR, LIC. OT TRACTORS SHALL NOT	AND I HEREBY CERTIFY THAT THE AND I HEREBY CERTIFY THAT THE STURBANCES SHOWN ARE ACCURATE ETAILED ENGINEERING DRAWINGS. SALMON, P.E. &S, LLC UITE A-4, WALL, NJ 07727 NAL ENGINEER COA NO. 24GA28032700 <u>01/15/20</u> DATE AULUS, SOKOLOWSKI ND SARTOR, LLC. AULUS, SOKOLOWSKI AULUS, SOKOLOWSKI AULUS, SOKOLOWSKI AULUS, SOKOLOWSKI AULUS, SOKOLOWSKI AND SARTOR, LLC. IS DATA INTENDED SPECIFICALLY FOR THE NOTECTIVE IN WORDS OR NUMBERS ON THE CONTRACT IN WORDS OR NUMBERS ON THE CONTRACT STO DETERMINE DIMENSIONS. DATA INTENDED SPECIFICALLY FOR THE NOTECTIVE INTENDED OF USE ON EXTENSIONS OF THIS PROJECT. F THIS DOCUMENT OR ANY PORTION THEREOF PAULUS, SOKOLOWSKI AND SARTOR, LLC. IS CALLY DESIGNATED AS "CONSTRUCTION ISSUE" OR CONSTRUCTION OR IMPROVEMENTS DEPICTION AND SARTOR, LLC. – ALL RIGHTS RESERVED. AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN SITTE PLAN SITTE PLAN SITTE PLAN SITTE PLAN SITTE PLAN SITTE PLAN SITTE PLAN AL NOTES IN AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN SITTE PLAN AL NOTES IN AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN SITTE PLAN AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN SITTE PLAN AL NOTES IN AND SARTOR, LCC. SITTE PLAN AL NOTES IN AND SARTOR, LCC. AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN AL NOTES IN AND SARTOR, LCC. AND SARTOR, LLC. – ALL RIGHTS RESERVED. SITTE PLAN AL NOTES IN AND SARTOR, LCC. ALL RIGHTS RESERVED. AL NOTES IN AND SARTOR, LCC. ALL RIGHTS RESERVED. AL NOTES IN AND SARTOR, LCC. AL NOTES IN AND SARTOR, AND SARTOR, AND SARTOR, LCC. AL NOTES IN AND SAR

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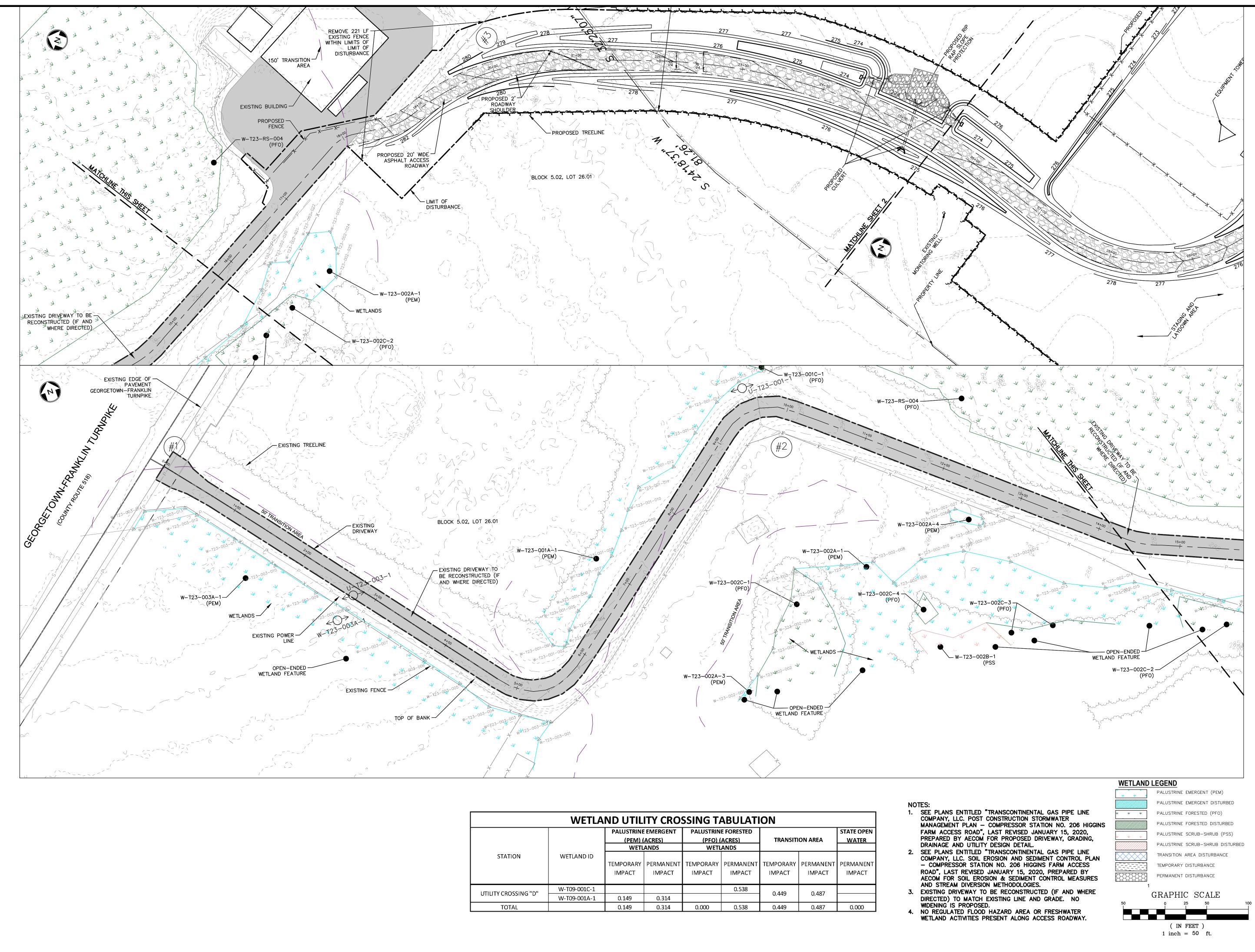
ROADWAY ACCESS AREA ACCESS TO THE PROJECT DISTURBANCE NEW UTILITY LINE DISTURBANCE

WETLAND LEGEND



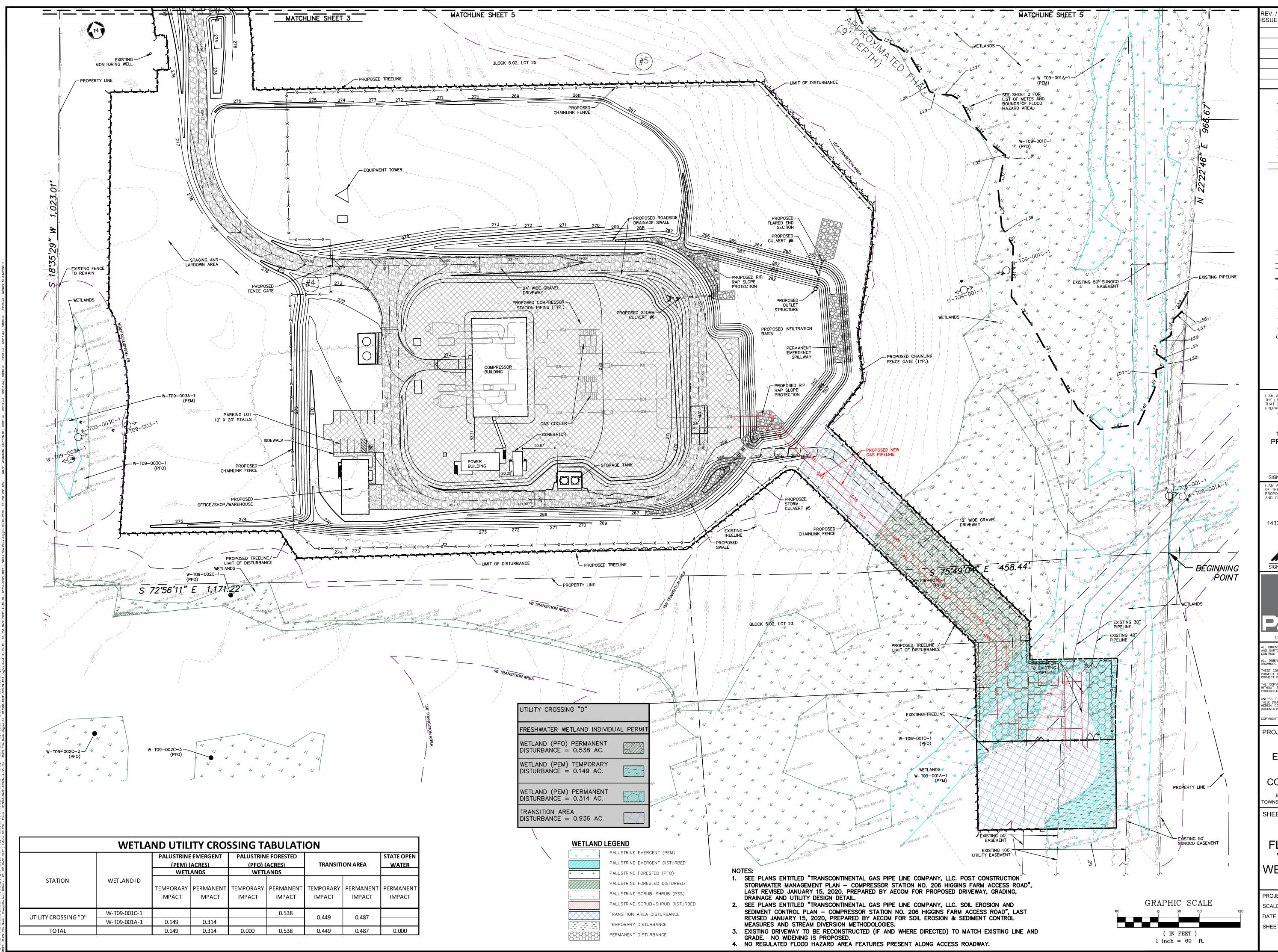
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N 63'58'17" W 435.63' BEGINNI LOT 23 BLOCK 5.02 EXISTING AT&T-50' EASEMENT EXISTING 50' WIDE UTILITY EASEMENT



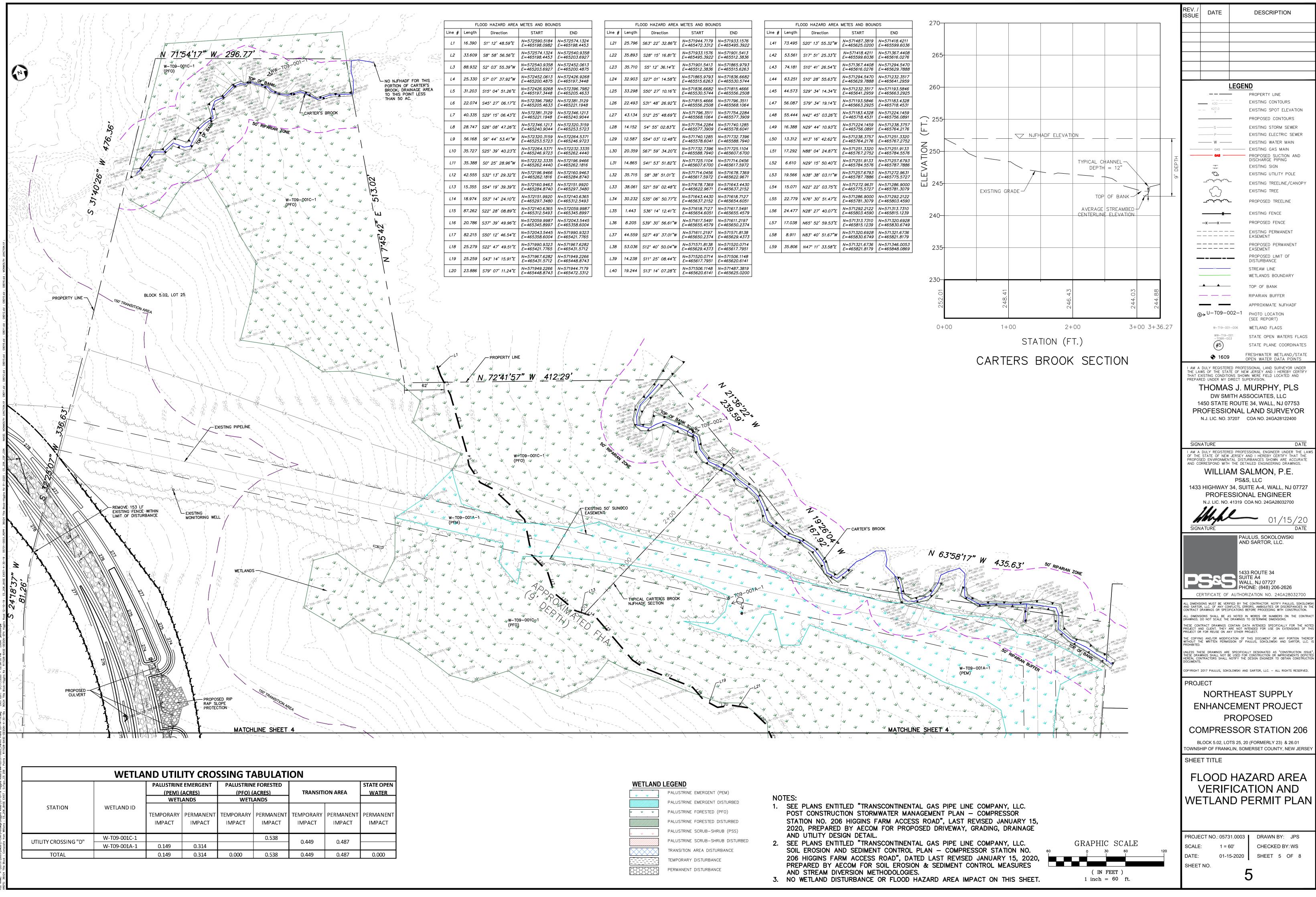
WETLAND UTILITY CROSSING TABULATION										
		PALUSTRINI	EMERGENT	PALUSTRIN	E FORESTED			STATE OPEN		
		(PEM) (ACRES)		(PFO) (ACRES)		TRANSITION AREA		WATER		
		WETL	WETLANDS		WETLANDS					
STATION	WETLAND ID	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	PERMANENT IMPACT		
	W-T09-001C-1				0.538	0.440	0.407			
UTILITY CROSSING "D"	W-T09-001A-1	0.149	0.314			0.449	0.487			
TOTAL		0.149	0.314	0.000	0.538	0.449	0.487	0.000		

REV. / ISSUE	DATE	DESCRIPTION
		LEGEND
-	430	PROPERTY LINE EXISTING CONTOURS
	427.0 X	EXISTING SPOT ELEVATION
-	S	 PROPOSED CONTOURS EXISTING STORM SEWER
_	S P	EXISTING STORM SEWER EXISTING ELECTRIC SEWER
_	W gas	EXISTING WATER MAIN EXISTING GAS MAIN
	GAS	PROPOSED SUCTION AND DISCHARGE PIPING
	÷÷ 6	EXISTING SIGN
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	\bigcirc	EXISTING TREE
		PROPOSED TREELINE
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	xx	PROPOSED FENCE EXISTING PERMANENT
		- EASEMENT
_		PROPOSED PERMANENT EASEMENT PROPOSED LINIT OF
-		DISTURBANCE
-		- STREAM LINE - WETLANDS BOUNDARY
-		- TOP OF BANK
-		- RIPARIAN BUFFER
• (!)→U-T09-C	 APPROXIMATE NJFHADF D02-1 PHOTO LOCATION
		(SEE REPORT)
	▲ W-T19-00 ▲ WW-T19-0	001 STATE OPEN WATERS FLAGS
	#5	STATE PLANE COORDINATES
	1609	FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS
		RED PROFESSIONAL LAND SURVEYOR UNDER TE OF NEW JERSEY AND I HEREBY CERTIFY
	N.J. LIC. NO. 3	37207 COA NO. 24GA28122400
	IATURE	DATE
OF THE PROPOS	STATE OF NEW SED ENVIRONMEN DRRESPOND WITH	IED PROFESSIONAL ENGINEER UNDER THE LAWS () JERSEY AND I HEREBY CERTIFY THAT THE UTAL DISTURBANCES SHOWN ARE ACCURATE H THE DETAILED ENGINEERING DRAWINGS. M SALMON, P.E. PS&S, LLC
1433	PROFE	34, SUITE A-4, WALL, NJ 07727 SSIONAL ENGINEER 41319 COA NO. 24GA28032700
h	Mh	(01/15/20
SIGN	IATURE	DATE
		PAULUS, SOKOLOWSKI AND SARTOR, LLC.
	290	1433 ROUTE 34 SUITE A4 WALL, NJ 07727
		PHONE: (848) 206-2626
ALL DIMENS	NONS MUST BE VER	AUTHORIZATION NO. 24GA28032700 IFIED BY THE CONTRACTOR. NOTIFY PAULUS, SOKOLOWSK INFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE
CONTRACT I ALL DIMENS DRAWINGS. THESE CON PROJECT A PROJECT OF THE COPYIN	DRAWINGS OR SPECI SIONS SHALL BE A DO NOT SCALE THE TRACT DRAWINGS (ND CLIENT. THEY R FOR REUSE ON AI NG AND/OR MODIFIC	IFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION. AS NOTED IN WORDS OR NUMBERS ON THE CONTRAC" DRAWINGS TO DETERMINE DIMENSIONS. CONTAIN DATA INTENDED SPECIFICALLY FOR THE NOTED ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS NY OTHER PROJECT. CATION OF THIS DOCUMENT OR ANY PORTION THEREOF
PROHIBITED.		SSION OF PAULUS, SOKOLOWSKI AND SARTOR, LLC. IS
THESE DRAY HEREIN, CO DOCUMENTS	NTRACTORS SHALL	E SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE" SE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION
COPYRIGHT	2017 PAULUS, SOK	OLOWSKI AND SARTOR, LLC. – ALL RIGHTS RESERVED.
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E	NHANC	HEAST SUPPLY EMENT PROJECT
	P	ROPOSED
CC	MPRES	SSOR STATION 206
		OTS 25, 20 (FORMERLY 23) & 26.01 KLIN, SOMERSET COUNTY, NEW JERSEY
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		VETLAND RMIT PLAN
PROJE	CT NO.: 0573	31.0003 DRAWN BY: JPS
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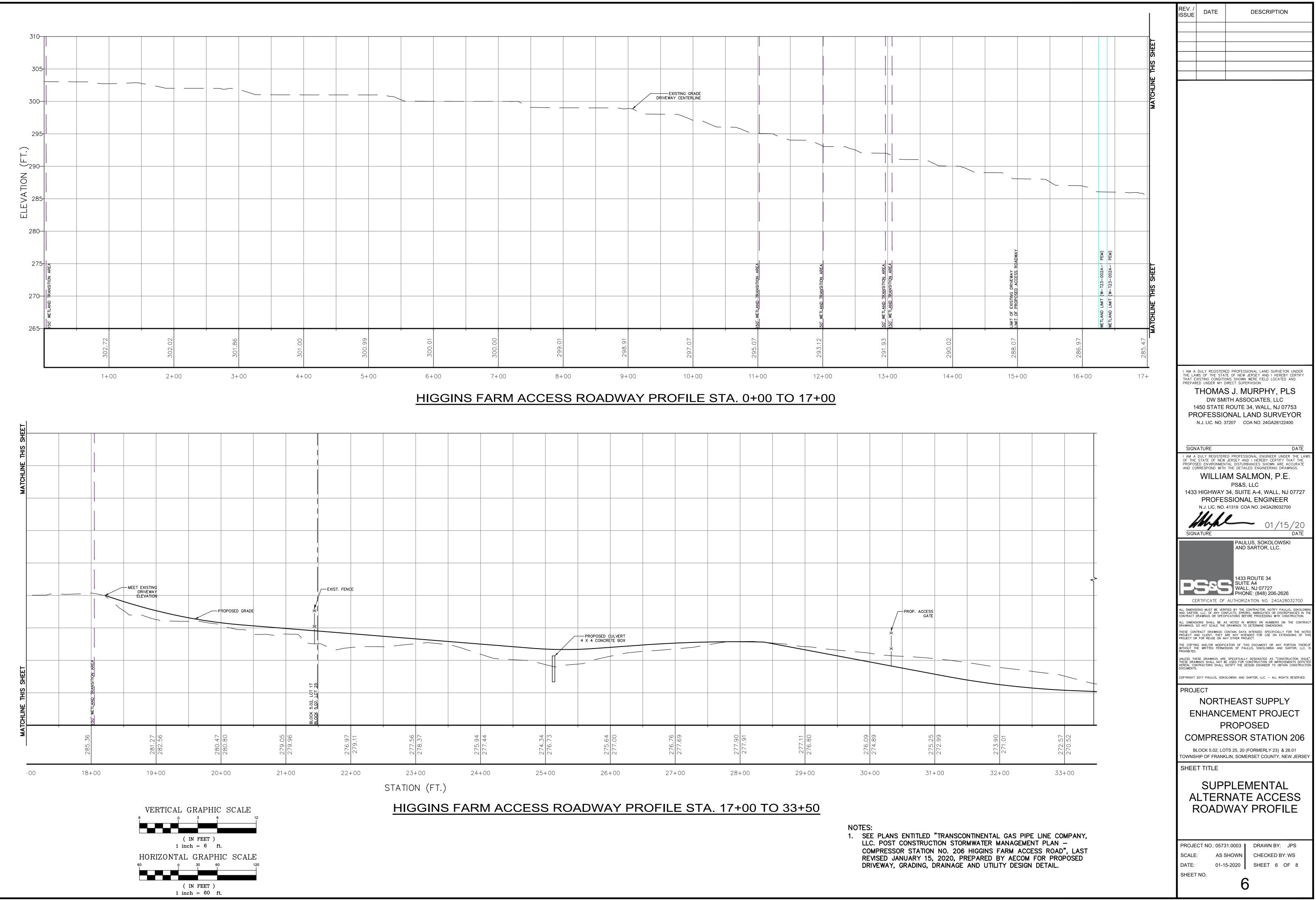
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STATION	WETLAND ID	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	PER II
UTILITY CROSSING "D"	W-T09-001C-1				0.538	0.449	0.487	
	W-T09-001A-1	0.149	0.314			0.449	0.487	
ΤΟΤΑΙ		0.149	0.314	0.000	0.538	0.449	0.487	

REV. / ISSUE	DATE	DESCRIPTION
		LEGEND
-	430	PROPERTY LINE EXISTING CONTOURS
_	427.0 X	EXISTING SPOT ELEVATION
_	s	 EXISTING STORM SEWER EXISTING ELECTRIC SEWER
_	₽ ──_₩ ──	- EXISTING WATER MAIN
	GAS	EXISTING GAS MAIN PROPOSED SUCTION AND DISCHARGE PIPING
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		- PROPOSED TREELINE
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_		EASEMENT PROPOSED LIMIT OF DISTURBANCE
-		- STREAM LINE - WETLANDS BOUNDARY
-		- WEILANDS BOUNDARY - TOP OF BANK
-		- RIPARIAN BUFFER
)→U-T09-C	
	▲ W-T19-00	(SEE REPORT) 1-006 WETLAND FLAGS
	(<i>""</i>) (1609	ERESHWATER WETLAND STATE
THE LA	WS OF THE STA	ED PROFESSIONAL LAND SURVEYOR UNDER TE OF NEW JERSEY AND I HEREBY CERTIFY ONS SHOWN WERE FIELD LOCATED AND
PREPAR	ED UNDER MY [S J. MURPHY, PLS
	DW SM	ITH ASSOCIATES, LLC
		ROUTE 34, WALL, NJ 07753 DNAL LAND SURVEYOR
	N.J. LIC. NO. 3	37207 COA NO. 24GA28122400
I AM A	DULY REGISTER STATE OF NEW	DATE ED PROFESSIONAL ENGINEER UNDER THE LAWS JERSEY AND I HEREBY CERTIFY THAT THE
PROPOS	SED ENVIRONMEN DRRESPOND WITH	ITAL DISTURBANCES SHOWN ARE ACCURATE I THE DETAILED ENGINEERING DRAWINGS. M SALMON, P.E.
4400		PS&S, LLC
1433	PROFE	34, SUITE A-4, WALL, NJ 07727 SSIONAL ENGINEER
		41319 COA NO. 24GA28032700
	ATURE	01/15/20 Date
		PAULUS, SOKOLOWSKI AND SARTOR, LLC.
		· · · · · · · · · · · · · · · · · · ·
	586	1433 ROUTE 34 SUITE A4 WALL, NJ 07727
CE	RTIFICATE OF	PHONE: (848) 206-2626 AUTHORIZATION NO. 24GA28032700
		FIED BY THE CONTRACTOR. NOTIFY PAULUS, SOKOLOWSKI NFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE IFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
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DOCUMENTS		
COPYRIGHT		OLOWSKI AND SARTOR, LLC. – ALL RIGHTS RESERVED.
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		NTS 25, 20 (FORMERLY 23) & 26.01 (LIN, SOMERSET COUNTY, NEW JERSEY
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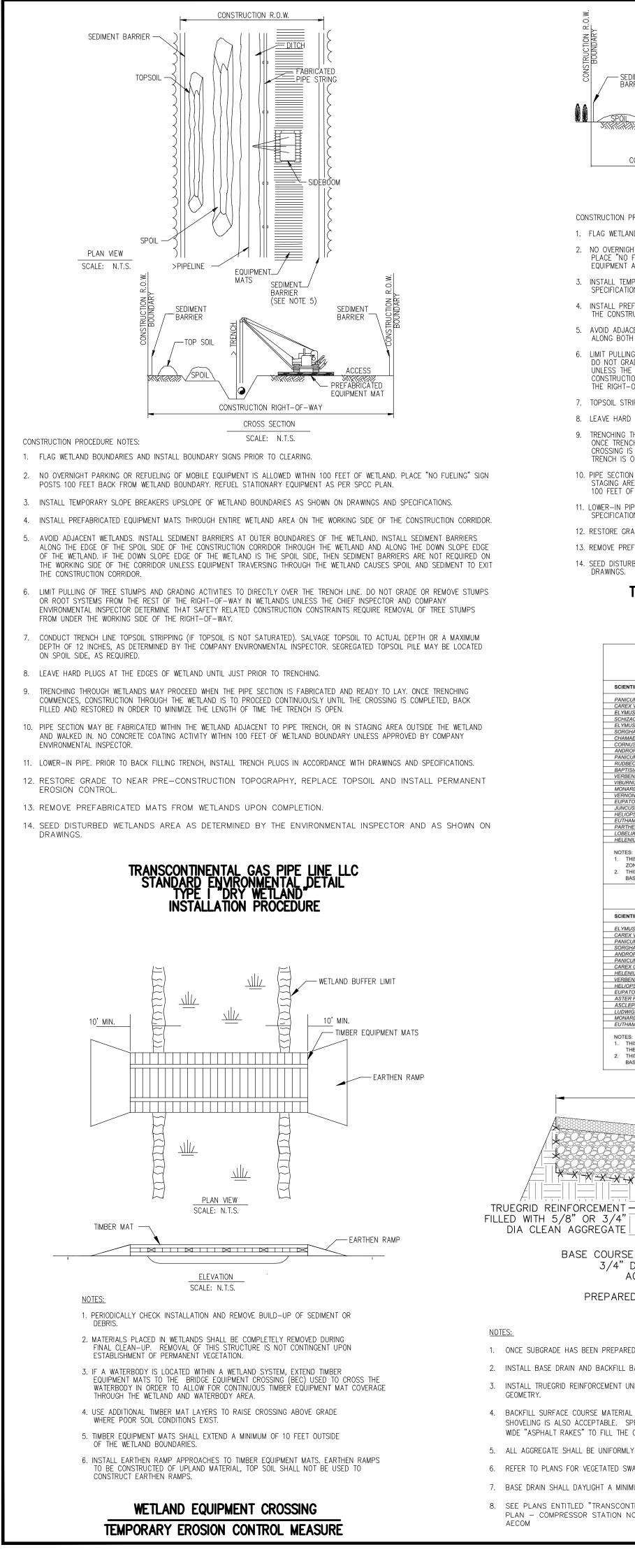


	FL	OOD HAZARD AREA	METES AND BOUN	IDS		FLOOD HAZARD AREA METES AND BOUNDS						FLOOD HAZARD AREA METES AND BOUNDS				
ine #	Length	Direction	START	END	Line #	Length	Direction	START	END	Line #	Length	Direction	START	END		
L1	16.390	S1• 12' 48.59"E	N=572590.5184 E=465198.0982	N=572574.1324 E=465198.4453	L21	25.796	S63• 22' 32.86"E	N=571944.7179 E=465472.3312	N=571933.1576 E=465495.3922	L41	73.495	S20° 13' 55.32"W	N=571487.3819 E=465625.0200	N=571418.42 E=465599.6		
L2	33.609	S8* 58' 56.56"E	N=572574.1324 E=465198.4453	N=572540.9358 E=465203.6927	L22	35.893	S28° 15' 16.81"E	N=571933.1576 E=465495.3922	N=571901.5413 E=465512.3836	L42	53.561	S17• 51' 25.33"E	N=571418.4211 E=465599.6036	N=571367.4 E=465616.0		
L3	88.932	S2° 03' 55.39"W	N=572540.9358 E=465203.6927	N=572452.0613 E=465200.4875	L23	35.710	S5° 12′ 36.14"E	N=571901.5413 E=465512.3836	N=571865.9793 E=465515.6263	L43	74.181	S10° 41' 26.54"E	N=571367.4408 E=465616.0276	N=571294.5 E=465629.7		
L4	25.330	S7° 07' 37.92"W	N=572452.0613 E=465200.4875	N=572426.9268 E=465197.3448	L24	32.903	S27° 01' 14.58"E	N=571865.9793 E=465515.6263	N=571836.6682 E=465530.5744	L44	63.251	S10° 28' 55.63"E	N=571294.5470 E=465629.7888	N=571232. E=465641.2		
L5	31.203	S15° 04' 51.26"E	N=572426.9268 E=465197.3448	N=572396.7982 E=465205.4633	L25	33.298	S50° 27' 10.16"E	N=571836.6682 E=465530.5744	N=571815.4666 E=465556.2508	L45	44.573	S29• 34' 14.34"E	N=571232.3517 E=465641.2959	N=571193.5 E=465663.2		
L6	22.074	S45° 27' 06.17"E	N=572396.7982 E=465205.4633	N=572381.3129 E=465221.1948	L26	22.493	S31* 48' 26.92"E	N=571815.4666 E=465556.2508	N=571796.3511 E=465568.1064	L47	56.087	S79° 34' 19.14"E	N=571193.5846 E=465663.2925	N=571183.4 E=465718.4		
L7	40.335	S29° 15' 06.43"E	N=572381.3129 E=465221.1948	N=572346.1213 E=465240.9044	L27	43.134	S12* 25' 48.69"E	N=571796.3511 E=465568.1064	N=571754.2284 E=465577.3909	L48	55.444	N42° 45' 03.26"E	N=571183.4328 E=465718.4531	N=571224. E=465756.		
L8	28.747	S26° 08' 47.26"E	N=572346.1213 E=465240.9044	N=572320.3159 E=465253.5723	L28	14.152	S4° 55' 02.83"E	N=571754.2284 E=465577.3909	N=571740.1285 E=465578.6041	L49	16.388	N29° 44' 10.93"E	N=571224.1459 E=465756.0891	N=571238. E=465764.		
L9	56.168	S6° 44' 53.41"W	N=572320.3159 E=465253.5723	N=572264.5371 E=465246.9723	L29	12.587	S54° 03' 12.48"E	N=571740.1285 E=465578.6041	N=571732.7396 E=465588.7940	L50	13.312	N13° 16' 42.62"E	N=571238.3757 E=465764.2176	N=571251. E=465767.		
L10	35.727	S25° 39' 40.23"E	N=572264.5371 E=465246.9723	N=572232.3335 E=465262.4440	L30	20.359	S67* 59' 34.20"E	N=571732.7396 E=465588.7940	N=571725.1104 E=465607.6700	L51	17.292	N88° 04' 24.87"E	N=571251.3320 E=465767.2752	N=571251. E=465784.		
L11	35.388	S0° 25' 28.96"W	N=572232.3335 E=465262.4440	N=572196.9466 E=465262.1816	L31	14.865	S41° 53' 51.82"E	N=571725.1104 E=465607.6700	N=571714.0456 E=465617.5972	L52	6.610	N29° 15' 50.40"E	N=571251.9133 E=465784.5576	N=571257. E=465787.		
L12	42.555	S32• 13' 29.32"E	N=572196.9466 E=465262.1816	N=572160.9463 E=465284.8740	L32	35.715	S8• 38' 51.01"E	N=571714.0456 E=465617.5972	N=571678.7369 E=465622.9671	L53	19.566	N38° 38' 03.11"W	N=571257.6793 E=465787.7886	N=571272. E=465775.		
L13	15.355	S54* 19' 39.39"E	N=572160.9463 E=465284.8740	N=572151.9920 E=465297.3480	L33	38.061	S21* 59' 02.48"E	N=571678.7369 E=465622.9671	N=571643.4430 E=465637.2152	L54	15.071	N22* 22' 03.75"E	N=571272.9631 E=465775.5727	N=571286. E=465781.		
L14	18.974	S53* 14' 24.10"E	N=572151.9920 E=465297.3480	N=572140.6365 E=465312.5493	L34	30.232	S35* 06' 50.77"E	N=571643.4430 E=465637.2152	N=571618.7127 E=465654.6051	L55	22.779	N76° 30' 51.47"E	N=571286.9000 E=465781.3079	N=571292 E=465803		
L15	87.262	S22* 28' 08.89"E	N=572140.6365 E=465312.5493	N=572059.9987 E=465345.8997	L35	1.443	S36° 14' 12.41"E	N=571618.7127 E=465654.6051	N=571617.5491 E=465655.4579	L56	24.477	N28° 27' 40.07"E	N=571292.2122 E=465803.4590	N=571313. E=465815.		
L16	20.786	S37* 39' 49.96"E	N=572059.9987 E=465345.8997	N=572043.5445 E=465358.6004	L36	8.205	S39° 30' 56.61"W	N=571617.5491 E=465655.4579	N=571611.2197 E=465650.2374	L57	17.038	N65* 52' 59.53"E	N=571313.7310 E=465815.1239	N=571320 E=465830		
L17	82.215	S50° 12' 46.54"E	N=572043.5445 E=465358.6004	N=571990.9323 E=465421.7765	L37	44.559	S27° 49' 37.01"W	N=571611.2197 E=465650.2374	N=571571.8138 E=465629.4373	L58	8.911	N83° 40' 51.67"W	N=571320.6928 E=465830.6749	N=571321 E=465821		
L18	25.279	S22* 47' 49.51"E	N=571990.9323 E=465421.7765	N=571967.6282 E=465431.5712	L38	53.036	S12* 40' 50.04"W	N=571571.8138 E=465629.4373	N=571520.0714 E=465617.7951	L59	35.806	N47° 11' 33.58"E	N=571321.6736 E=465821.8179	N=571346 E=465848		
L19	25.259	S43• 14' 15.91"E	N=571967.6282 E=465431.5712	N=571949.2266 E=465448.8743	L39	14.238	S11° 25' 08.44"E	N=571520.0714 E=465617.7951	N=571506.1148 E=465620.6141							
L20	23.886	S79* 07' 11.24"E	N=571949.2266 E=465448.8743	N=571944.7179 E=465472.3312	L40	19.244	S13° 14' 07.28"E	N=571506.1148 E=465620.6141	N=571487.3819 E=465625.0200							

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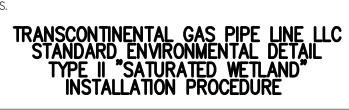
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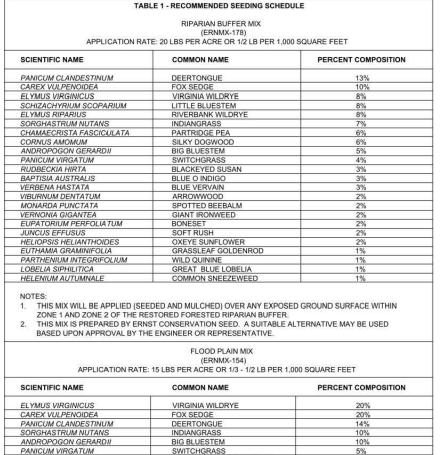


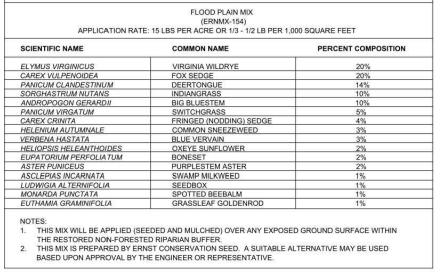
SEDIMEN SPOIL PRFFARE EQUIPMENT MA CONSTRUCTION RIGHT-OF-WAY CROSS SECTION SEDIMENT BARRIER (TYP € PIPELINE PLAN VIEW CONSTRUCTION PROCEDURE NOTES: SCALE. NTS 1. FLAG WETLAND BOUNDARIES AND INSTALL BOUNDARY SIGNS PRIOR TO CLEARING. NO OVERNIGHT PARKING OR REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY. REFUEL STATIONARY EQUIPMENT AS PER SPCC PLAN. 3. INSTALL TEMPORARY SLOPE BREAKERS UPSLOPE OF WETLAND BOUNDARIES AS SHOWN ON DRAWINGS AND SPECIFICATIONS. 4. INSTALL PREFABRICATED EQUIPMENT MATS THROUGH ENTIRE WETLAND AREA ON THE WORKING SIDE OF THE CONSTRUCTION CORRIDOR. 5. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT OUTER BOUNDARIES OF WETLAND AND ALONG BOTH WETLAND EDGES. 6. LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVERTHE TRENCHLINE.

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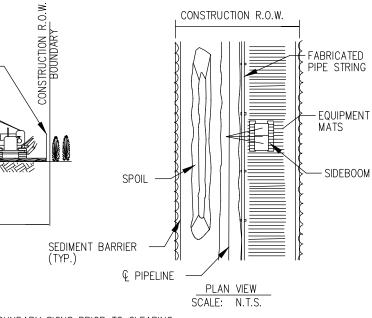
- CONSTRUCTION CONSTRAINTS REQUIRE REMOVAL OF TREE STUMPS FROM UNDER THE WORKING SIDE OF THE RIGHT-OF-WAY.
- 7. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
- 8. LEAVE HARD PLUGS AT THE EDGES OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
- TRENCH IS OPEN
- 10. PIPE SECTION MAY BE FABRICATED WITHIN THE WETLAND ADJACENT TO PIPE TRENCH, OR IN STAGING AREA OUTSIDE THE WETLAND AND WALKED IN. NO CONCRETE COATING ACTIVITY WITHIN
- SPECIFICATIONS.
- 13. REMOVE PREFABRICATED MATS FROM WETLANDS UPON COMPLETION. 14. SEED DISTURBED WETLAND AREA AS DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND AS SHOWN ON







- BASE COURSE 5/8" OR-3/4" DIA CLEAN AGGREGATE PREPARED SUBGRADE -
- 1. ONCE SUBGRADE HAS BEEN PREPARED, INSTALL GEOTEXTILE OR GEOGRID MESH.
- 2. INSTALL BASE DRAIN AND BACKFILL BASE COURSE MATERIAL IN 4-INCH LIFTS, LEVELED AND COMPACTED TO LOCK IN ANGULAR STONE. 3. INSTALL TRUEGRID REINFORCEMENT UNITS BY PLACING CELLS FACE UP, RE-CONFIGURED AND CUT AS NECESSARY TO MEET THE PROJECT
- 4. BACKFILL SURFACE COURSE MATERIAL BY BACK DUMPING DIRECTLY FROM DUMP TRUCKS OR FROM BUCKETS MOUNTED TO TRACTORS. HAND
- 5. ALL AGGREGATE SHALL BE UNIFORMLY GRADED AND CLEAN PRIOR TO INSTALLATION
- 6. REFER TO PLANS FOR VEGETATED SWALE LOCATIONS AND DETAILS FOR LINING AND DIMENSION REQUIREMENTS.
- 7. BASE DRAIN SHALL DAYLIGHT A MINIMUM OF 200' FEET OF LINEAR ROAD AT A MINIMUM SLOPE OF 0.5%
- 8. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 HIGGINS FARM ACCESS ROAD", LAST REVISED JA



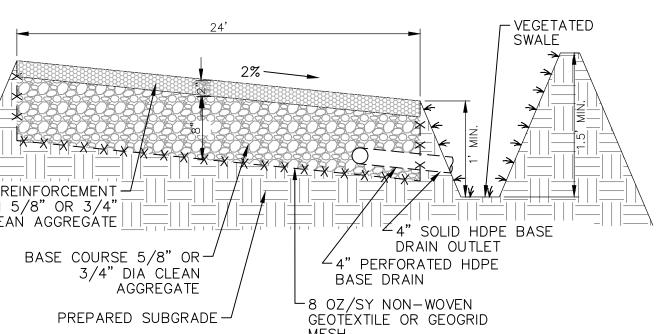
DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY IN WETLANDS UNLESS THE CHIEF INSPECTOR AND COMPANY ENVIRONMENTAL INSPECTOR DETERMINE THAT SAFETY RELATED

9. TRENCHING THROUGH WETLANDS MAY PROCEED WHEN THE PIPE SECTION IS FABRICATED AND READY TO LAY. ONCE TRENCHING COMMENCES, CONSTRUCTION THROUGH THE WETLAND IS TO PROCEED CONTINUOUSLY UNTIL THE CROSSING IS COMPLETED, BACKFILLED AND RESTORED IN ORDER TO MINIMIZE THE LENGTH OF TIME THE

100 FEET OF WETLAND BOUNDARY, UNLESS APPROVED BY COMPANY ENVIRONMENTAL INSPECTOR.

11. LOWER-IN PIPE. PRIOR TO BACKFILLING, INSTALL TRENCH PLUGS IN ACCORDANCE WITH DRAWINGS AND

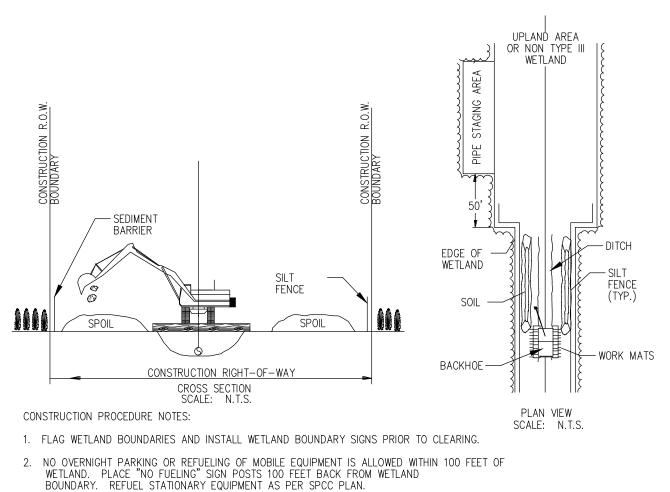
12. RESTORE GRADE TO PRE-CONSTRUCTION TOPOGRAPHY AND INSTALL PERMANENT EROSION CONTROL.



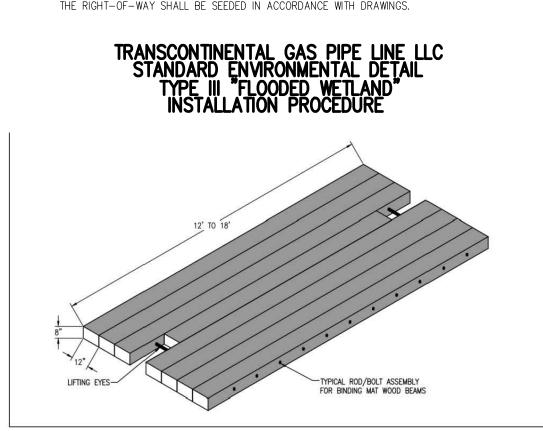
MESH SECTION VIEW

SHOVELING IS ALSO ACCEPTABLE. SPREAD MATERIAL USING STEER LOADERS, POWER BROOMS, BLADES, FLAT-BOTTOMED SHOVELS, AND/OR WIDE "ASPHALT RAKES" TO FILL THE CELLS. ONCE CELLS ARE AT CAPACITY, COMPACT AGGREGATE WITH A ROLLER OR VIBRATING PLATE.

REINFORCED GRAVEL ACCESS ROAD (PROPOSED)



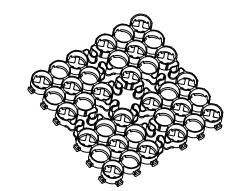
- 3. INSTALL TEMPORARY SLOPE BREAKERS UPSLOPE OF WETLAND BOUNDARIES AS SHOWN ON DRAWINGS
- AND SPECIFICATIONS. 4. AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT OUTER BOUNDARIES OF WETLAND AND
- ALONG BOTH WETLAND EDGES.
- 5. LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY IN WETLANDS UNLESS THE CHIEF INSPECTOR AND COMPANY ENVIRONMENTAL INSPECTOR DETERMINE THAT SAFETY RELATED CONSTRUCTION CONSTRAINTS REQUIRE REMOVAL OFTREE STUMPS FROM UNDER THE WORKING SIDE OF THE RIGHT-OF-WAY.
- 6. TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS. 7. UTILIZE AMPHIBIOUS EXCAVATORS (PONTOON MOUNTED BACKHOES) OR TRACKED BACKHOES SUPPORTED BY PREFABRICATED EQUIPMENT MATS OR FLOATS, TO EXCAVATE TRENCH. IF PREFABRICATED EQUIPMENT MATS ARE USED FOR STABILIZATION, THE BACKHOE SHALL GRADUALLY MOVE ACROSS THE WETLAND BY MOVING THE MATS FROM IMMEDIATELY BEHIND TO IMMEDIATELY IN FRONT OF THE BACKHOE'S PATH
- 8. FABRICATE PIPE IN A STAGING AREA OUTSIDE THE TYPE III WETLAND AS INDICATED ON THE CONSTRUCTION DRAWINGS.NO CONCRETE COATING ACTIVITY WITHIN 100 FEET OF WETLAND BOUNDARY, UNLESS APPROVED BY COMPANY ENVIRONMENTAL INSPECTOR.
- 9. LEAVE HARD PLUGS AT THE EDGE OF TYPE III WETLAND UNTIL JUST PRIOR TO PIPE PLACEMENT.
- 10. FLOAT PIPE IN PLACE, LOWER-IN, INSTALL TRENCH PLUGS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS, AND BACKFILL.
- 11. RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY AND INSTALL PERMANENT EROSION CONTROL.
- 12. REMOVE ANY MATS UTILIZED TO SUPPORT AMPHIBIOUS EQUIPMENT FROM WETLANDS UPON COMPLETION.
- 13. WETLANDS CROSSED USING PUSH/PULL METHOD TEND TO BE TOO WET FOR EFFECTIVE SEEDING. HOWEVER, IF THE SITE IS DRY ENOUGH AND IF DIRECTED BY THE ENVIRONMENTAL INSPECTOR,



PRE-FABRICATED CONSTRUCTION MATTING TEMPORARY EROSION CONTROL MEASURE

NOTE: 1. CONSTRUCTION MATTING SHALL BE INSTALLED THROUGHOUT ENTIRE WORKING SITE WORKSPACE

- WHEN WITHIN FRESHWATER WETLANDS, WETLANDS BUFFERS AND RIPARIAN ZONES. 2. RESTORATION AND STABILIZATION TO OCCUR UPON REMOVAL OF TEMPORARY ACCESS ROADS.



TRUEGRID BLOCK REFERENCE VIEW

PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. RECONFIGURE AS NEEDED. NO EXTRA TOOLING OR ACCESSORIES REQUIRED

	REV. / ISSUE	DATE	DESCRIPTION
REMOVABLE SILT FENCE (SEE NOTE 1)			
SEDIMENT BARRIER (SEE NOTE 4) FENCE (SEE NOTE 1)			
Image:			
SPOIL SIDE U <u>III III III III III III III III III </u>			
$\underline{\underline{W}} \qquad \underline{\underline{W}} \qquad \underline{\underline{W}} \qquad \underline{\underline{W}} \qquad \underline{\underline{W}} \qquad \underline{\underline{W}} \qquad \underline{\underline{W}} \qquad (\text{SEE NOTE 3})$			
DIVERSION TERRACE WETLAND BOUNDARY			
(SEE NOTE 2) <u>PLAN</u> SCALE: N.T.S.			
NOTES:			
 INSTALL REMOVABLE SEDIMENT BARRIERS (HAY BALES) OR DRIVEABLE BERMS ACROSS THE TRAVEL LANE AT BOTH WETLAND BOUNDARIES. THE REMOVABLE SEDIMENT BARRIERS CAN BE REMOVED DURING THE CONSTRUCTION DAY, BUT MUST BE RE–INSTALLED AFTER CONSTRUCTION HAS STOPPED FOR THE DAY AND/OR 			
WHEN HEAVY PRECIPITATION IS IMMINENT. 2. INSTALL DIVERSION TERRACES IMMEDIATELY UPSLOPE OF BOTH WETLAND BOUNDARIES TO PREVENT SEDIMENT			
FROM ENTERING THE WETLAND.			
3. INSTALL TRENCH PLUGS AT BOTH WETLAND BOUNDARIES TO PREVENT DIVERSION OF WATER INTO UPLAND PORTIONS OF THE PIPELINE TRENCH AND TO KEEP ANY ACCUMULATED UPLAND TRENCH WATER OUT OF WETLAND.			
4. FOR TYPE II ("SATURATED") AND TYPE III ("FLOODED") WETLANDS, INSTALL SEDIMENT BARRIERS AT WETLAND BOUNDARIES AND ALONG BOTH WETLAND EDGES. FOR TYPE I ("DRY") WETLANDS, INSTALL SEDIMENT BARRIERS AT WETLAND BOUNDARIES, ALONG THE EDGE OF THE SPOIL SIDE OF THE CONSTRUCTION CORRIDOR			
AND ALONG THE DOWNSLOPE EDGE OF THE WETLAND. IF THE DOWNSLOPE EDGE OF THE WETLAND IS THE SPOIL SIDE, THEN SEDIMENT BARRIERS ARE NOT REQUIRED ON THE WORKING SIDE OF THE CORRIDOR UNLESS EQUIPMENT TRAVERSING THROUGH THE WETLAND CAUSES SPOIL AND SEDIMENT TO EXIT THE CONSTRUCTION			
corridor. WETLAND CROSSING CONFIGURATION			
(TYPE I, II AND III WETLANDS)			
			ED PROFESSIONAL LAND SURVEYOR UNDER TE OF NEW JERSEY AND I HEREBY CERTIFY
	THAT EXI PREPARE	STING CONDITIO D UNDER MY [DNS SHOWN WERE FIELD LOCATED AND DIRECT SUPERVISION.
			S J. MURPHY, PLS ITH ASSOCIATES, LLC
			ROUTE 34, WALL, NJ 07753 DNAL LAND SURVEYOR
			37207 COA NO. 24GA28122400
	SIGNA		DATE
	OF THE S PROPOSE	STATE OF NEW D ENVIRONMEN	ED PROFESSIONAL ENGINEER UNDER THE LAWS JERSEY AND I HEREBY CERTIFY THAT THE ITAL DISTURBANCES SHOWN ARE ACCURATE
			THE DETAILED ENGINEERING DRAWINGS.
	1433	HIGHWAY	PS&S, LLC 34, SUITE A-4, WALL, NJ 07727
		PROFE	SSIONAL ENGINEER
			41319 COA NO. 24GA28032700
		MAN TUDE	01/15/20
	SIGNA	TURE	DATE PAULUS, SOKOLOWSKI
			AND SARTOR, LLC.
			1433 ROUTE 34 SUITE A4
		255	WALL, NJ 07727 PHONE: (848) 206-2626
	ALL DIMENSIO	NS MUST BE VER	AUTHORIZATION NO. 24GA28032700
	AND SARTOR, CONTRACT DR ALL DIMENSIO	LLC. OF ANY CO AWINGS OR SPECT	NFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE FICATIONS BEFORE PROCEEDING WITH CONSTRUCTION. S NOTED IN WORDS OR NUMBERS ON THE CONTRACT
	DRAWINGS. DO THESE CONTR PROJECT AND	O NOT SCALE THE RACT DRAWINGS (O CLIENT. THEY)	DRAWINGS TO DETERMINE DIMENSIONS. CONTAIN DATA INTENDED SPECIFICALLY FOR THE NOTED ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS
	THE COPYING	AND/OR MODIFIC	NY OTHER PROJECT. CATION OF THIS DOCUMENT OR ANY PORTION THEREOF SSION OF PAULUS, SOKOLOWSKI AND SARTOR, LLC. IS
	UNLESS THES	NGS SHALL NOT B	SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", IE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED
	DOCUMENTS.		NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION
	PROJE		
			HEAST SUPPLY
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			TS 25, 20 (FORMERLY 23) & 26.01 (LIN, SOMERSET COUNTY, NEW JERSEY
	SHEET		
			STRUCTION DETAILS
NOTES:		L	
1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN -			
COMPRESSOR STATION NO. 206 HIGGINS FARM ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED			
DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL AND LOCATION OF BRUSH SEED MIX APPLICATION.	PROJEC	CT NO.: 0573	31.0003 DRAWN BY: JPS
2. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR	SCALE:		SHOWN CHECKED BY: WS
STATION NO. 206 HIGGINS FARM ACCESS ROAD", LAST REVISED	DATE: SHEET N		5-2020 SHEET 7 OF 8
JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.			7

B. AGENCY COORDINATION WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES THE PROJECT SPONSOR MUST COORDINATE WITH THE APPROPRIATE LOCAL, STATE, AND FEDERAL AGENCIES AS OUTLINED IN THESE PROCEDURES AND IN THE FERC'S ORDERS. I. APPLICABILITY A. THE INTENT OF THESE PROCEDURES IS TO ASSIST PROJECT SPONSORS BY IDENTIFYING BASELINE V. WATERBODY CROSSINGS MITIGATION MEASURES FOR MINIMIZING THE EXTENT AND DURATION OF PROJECT-RELATED A. NOTIFICATION PROCEDURES AND PERMITS DISTURBANCE ON WETLANDS AND WATERBODIES. PROJECT SPONSORS SHALL SPECIFY IN THEIR 1. APPLY TO THE U.S. ARMY CORPS OF ENGINEERS (COE). OR ITS DELEGATED AGENCY, FOR APPLICATIONS FOR A NEW FERC AUTHORIZATION, AND IN PRIOR NOTICE AND ADVANCE NOTICE FILINGS, THE APPROPRIATE WETLAND AND WATERBODY CROSSING PERMITS. ANY INDIVIDUAL MEASURES IN THESE PROCEDURES THEY CONSIDER UNNECESSARY. TECHNICALLY 2. PROVIDE WRITTEN NOTIFICATION TO AUTHORITIES RESPONSIBLE FOR POTABLE SURFACE INFEASIBLE, OR UNSUITABLE DUE TO LOCAL CONDITIONS AND FULLY DESCRIBE ANY ALTERNATIVE WATER SUPPLY INTAKES LOCATED WITHIN 3 MILES DOWNSTREAM OF THE CROSSING AT LEAST MEASURES THEY WOULD USE. PROJECT SPONSORS SHALL ALSO EXPLAIN HOW THOSE ALTERNATIVE 1 WEEK BEFORE BEGINNING WORK IN THE WATERBODY, OR AS OTHERWISE SPECIFIED BY THAT MEASURES WOULD ACHIEVE A COMPARABLE LEVEL OF MITIGATION. AUTHORITY ONCE A PROJECT IS AUTHORIZED, PROJECT SPONSORS CAN REQUEST FURTHER CHANGES AS 3. APPLY FOR STATE-ISSUED WATERBODY CROSSING PERMITS AND OBTAIN INDIVIDUAL OR VARIANCES TO THE MEASURES IN THESE PROCEDURES (OR THE APPLICANT'S APPROVED GENERIC SECTION 401 WATER QUALITY CERTIFICATION OR WAIVER. PROCEDURES). THE DIRECTOR OF THE OFFICE OF ENERGY PROJECTS (DIRECTOR) WILL CONSIDER 4. NOTIFY APPROPRIATE FEDERAL AND STATE AUTHORITIES AT LEAST 48 HOURS BEFORE APPROVAL OF VARIANCES UPON THE PROJECT SPONSOR'S WRITTEN REQUEST, IF THE DIRECTOR BEGINNING TRENCHING OR BLASTING WITHIN THE WATERBODY, OR AS SPECIFIED IN AGREES THAT A VARIANCE: APPLICABLE PERMITS. 1. PROVIDES EQUAL OR BETTER ENVIRONMENTAL PROTECTION: **B. INSTALLATION** 2. IS NECESSARY BECAUSE A PORTION OF THESE PROCEDURES IS INFEASIBLE OR 1. TIME WINDOW FOR CONSTRUCTION UNWORKABLE BASED ON PROJECT-SPECIFIC CONDITIONS; OR UNLESS EXPRESSLY PERMITTED OR FURTHER RESTRICTED BY THE APPROPRIATE FEDERAL OR 3. IS SPECIFICALLY REQUIRED IN WRITING BY ANOTHER FEDERAL, STATE, OR NATIVE AMERICAN STATE AGENCY IN WRITING ON A SITE-SPECIFIC BASIS, INSTREAM WORK, EXCEPT THAT LAND MANAGEMENT AGENCY FOR THE PORTION OF THE PROJECT ON ITS LAND OR UNDER ITS REQUIRED TO INSTALL OR REMOVE EQUIPMENT BRIDGES, MUST OCCUR DURING THE JURISDICTION FOLLOWING TIME WINDOWS: A. COLDWATER FISHERIES - JUNE 1 THROUGH SEPTEMBER 30; AND SPONSORS OF PROJECTS PLANNED FOR CONSTRUCTION UNDER THE AUTOMATIC B. COOLWATER AND WARMWATER FISHERIES - JUNE 1 THROUGH NOVEMBER 30. AUTHORIZATION PROVISIONS IN THE FERC'S REGULATIONS MUST RECEIVE WRITTEN APPROVAL 2. EXTRA WORK AREAS FOR ANY VARIANCES IN ADVANCE OF CONSTRUCTION A. LOCATE ALL EXTRA WORK AREAS (SUCH AS STAGING AREAS AND ADDITIONAL SPOIL PROJECT-RELATED IMPACTS ON NON-WETLAND AREAS ARE ADDRESSED IN THE STAFF'S STORAGE AREAS) AT LEAST 50 FEET AWAY FROM WATER'S EDGE, EXCEPT WHERE THE UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN (PLAN). ADJACENT UPLAND CONSISTS OF CULTIVATED OR ROTATED CROPLAND OR OTHER **B. DEFINITIONS** DISTURBED LAND. 1. "WATERBODY" INCLUDES ANY NATURAL OR ARTIFICIAL STREAM, RIVER, OR DRAINAGE WITH B. THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY FOR REVIEW AND PERCEPTIBLE FLOW AT THE TIME OF CROSSING, AND OTHER PERMANENT WATERBODIES SUCH WRITTEN APPROVAL BY THE DIRECTOR, SITE-SPECIFIC JUSTIFICATION FOR EACH AS PONDS AND LAKES EXTRA WORK AREA WITH A LESS THAN 50-FOOT SETBACK FROM THE WATER'S EDGE. A. "MINOR WATERBODY" INCLUDES ALL WATERBODIES LESS THAN OR EQUAL TO 10 EXCEPT WHERE THE ADJACENT UPLAND CONSISTS OF CULTIVATED OR ROTATED FEET WIDE AT THE WATER'S EDGE AT THE TIME OF CROSSING; CROPLAND OR OTHER DISTURBED LAND. THE JUSTIFICATION MUST SPECIFY THE B. "INTERMEDIATE WATERBODY" INCLUDES ALL WATERBODIES GREATER THAN 10 CONDITIONS THAT WILL NOT PERMIT A 50-FOOT SETBACK AND MEASURES TO ENSURE FEET WIDE BUT LESS THAN OR EQUAL TO 100 FEET WIDE AT THE WATER'S EDGE AT THE WATERBODY IS ADEQUATELY PROTECTED. THE TIME OF CROSSING: AND C. LIMIT THE SIZE OF EXTRA WORK AREAS TO THE MINIMUM NEEDED TO CONSTRUCT C. "MAJOR WATERBODY" INCLUDES ALL WATERBODIES GREATER THAN 100 FEET WIDE THE WATERBODY CROSSING. AT THE WATER'S EDGE AT THE TIME OF CROSSING. 3. GENERAL CROSSING PROCEDURES 2. "WETLAND" INCLUDES ANY AREA THAT IS NOT IN ACTIVELY CULTIVATED OR ROTATED A. COMPLY WITH THE COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CROPLAND AND THAT SATISFIES THE REQUIREMENTS OF THE CURRENT FEDERAL CONDITIONS. METHODOLOGY FOR IDENTIFYING AND DELINEATING WETLANDS. B. CONSTRUCT CROSSINGS AS CLOSE TO PERPENDICULAR TO THE AXIS OF THE WATERBODY CHANNEL AS ENGINEERING AND ROUTING CONDITIONS PERMIT. II. PRECONSTRUCTION FILING C. WHERE PIPELINES PARALLEL A WATERBODY, MAINTAIN AT LEAST 15 FEET OF A. THE FOLLOWING INFORMATION MUST BE FILED WITH THE SECRETARY OF THE FERC (SECRETARY) UNDISTURBED VEGETATION BETWEEN THE WATERBODY (AND ANY ADJACENT PRIOR TO THE BEGINNING OF CONSTRUCTION, FOR THE REVIEW AND WRITTEN APPROVAL BY THE WETLAND) AND THE CONSTRUCTION RIGHT-OF-WAY, EXCEPT WHERE MAINTAINING DIRECTOR THIS OFFSET WILL RESULT IN GREATER ENVIRONMENTAL IMPACT. 1. SITE-SPECIFIC JUSTIFICATIONS FOR EXTRA WORK AREAS THAT WOULD BE CLOSER THAN 50 D. WHERE WATERBODIES MEANDER OR HAVE MULTIPLE CHANNELS, ROUTE THE FEET FROM A WATERBODY OR WETLAND; AND PIPELINE TO MINIMIZE THE NUMBER OF WATERBODY CROSSINGS. 2. SITE-SPECIFIC JUSTIFICATIONS FOR THE USE OF A CONSTRUCTION RIGHT-OF-WAY GREATER E. MAINTAIN ADEQUATE WATERBODY FLOW RATES TO PROTECT AQUATIC LIFE, AND THAN 75-FEET-WIDE IN WETLANDS. PREVENT THE INTERRUPTION OF EXISTING DOWNSTREAM USES. B. THE FOLLOWING INFORMATION MUST BE FILED WITH THE SECRETARY PRIOR TO THE BEGINNING OF F. WATERBODY BUFFERS (E.G., EXTRA WORK AREA SETBACKS, REFUELING CONSTRUCTION. THESE FILING REQUIREMENTS DO NOT APPLY TO PROJECTS CONSTRUCTED UNDER RESTRICTIONS) MUST BE CLEARLY MARKED IN THE FIELD WITH SIGNS AND/OR HIGHLY THE AUTOMATIC AUTHORIZATION PROVISIONS IN THE FERC'S REGULATIONS: VISIBLE FLAGGING UNTIL CONSTRUCTION-RELATED GROUND DISTURBING ACTIVITIES 1. SPILL PREVENTION AND RESPONSE PROCEDURES SPECIFIED IN SECTION IV.A; ARE COMPLETE. 2. A SCHEDULE IDENTIFYING WHEN TRENCHING OR BLASTING WILL OCCUR WITHIN EACH G. CROSSING OF WATERBODIES WHEN THEY ARE DRY OR FROZEN AND NOT FLOWING WATERBODY GREATER THAN 10 FEET WIDE, WITHIN ANY DESIGNATED COLDWATER FISHERY. MAY PROCEED USING STANDARD UPLAND CONSTRUCTION TECHNIQUES IN AND WITHIN ANY WATERBODY IDENTIFIED AS HABITAT FOR FEDERALLY-LISTED THREATENED ACCORDANCE WITH THE PLAN, PROVIDED THAT THE ENVIRONMENTAL INSPECTOR OR ENDANGERED SPECIES. THE PROJECT SPONSOR WILL REVISE THE SCHEDULE AS VERIFIES THAT WATER IS UNLIKELY TO FLOW BETWEEN INITIAL DISTURBANCE AND NECESSARY TO PROVIDE FERC STAFF AT LEAST 14 DAYS ADVANCE NOTICE. CHANGES WITHIN FINAL STABILIZATION OF THE FEATURE. IN THE EVENT OF PERCEPTIBLE FLOW, THE THIS LAST 14-DAY PERIOD MUST PROVIDE FOR AT LEAST 48 HOURS ADVANCE NOTICE; PROJECT SPONSOR MUST COMPLY WITH ALL APPLICABLE PROCEDURE 3. PLANS FOR HORIZONTAL DIRECTIONAL DRILLS (HDD) UNDER WETLANDS OR WATERBODIES, REQUIREMENTS FOR "WATERBODIES" AS DEFINED IN SECTION I.B.1. SPECIFIED IN SECTION V.B.6.D: 4. SITE-SPECIFIC PLANS FOR MAJOR WATERBODY CROSSINGS, DESCRIBED IN SECTION V.B.9; 4. SPOIL PILE PLACEMENT AND CONTROL 5. A WETLAND DELINEATION REPORT AS DESCRIBED IN SECTION VI.A.1, IF APPLICABLE; AND A. ALL SPOIL FROM MINOR AND INTERMEDIATE WATERBODY CROSSINGS, AND UPLAND 6. THE HYDROSTATIC TESTING INFORMATION SPECIFIED IN SECTION VII.B.3. SPOIL FROM MAJOR WATERBODY CROSSINGS, MUST BE PLACED IN THE CONSTRUCTION RIGHT-OF-WAY AT LEAST 10 FEET FROM THE WATER'S EDGE OR IN III. ENVIRONMENTAL INSPECTORS ADDITIONAL EXTRA WORK AREAS AS DESCRIBED IN SECTION V.B.2. A. AT LEAST ONE ENVIRONMENTAL INSPECTOR HAVING KNOWLEDGE OF THE WETLAND AND B. USE SEDIMENT BARRIERS TO PREVENT THE FLOW OF SPOIL OR SILT-LADEN WATER WATERBODY CONDITIONS IN THE PROJECT AREA IS REQUIRED FOR EACH CONSTRUCTION SPREAD. THE INTO ANY WATERBODY. NUMBER AND EXPERIENCE OF ENVIRONMENTAL INSPECTORS ASSIGNED TO EACH CONSTRUCTION 5. EQUIPMENT BRIDGES SPREAD SHALL BE APPROPRIATE FOR THE LENGTH OF THE CONSTRUCTION SPREAD AND THE A. ONLY CLEARING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF NUMBER/SIGNIFICANCE OF RESOURCES AFFECTED. EQUIPMENT BRIDGES MAY CROSS WATERBODIES PRIOR TO BRIDGE INSTALLATION. B. THE ENVIRONMENTAL INSPECTOR'S RESPONSIBILITIES ARE OUTLINED IN THE UPLAND EROSION LIMIT THE NUMBER OF SUCH CROSSINGS OF EACH WATERBODY TO ONE PER PIECE OF CONTROL, REVEGETATION, AND MAINTENANCE PLAN (PLAN). CLEARING EQUIPMENT. B. CONSTRUCT AND MAINTAIN EQUIPMENT BRIDGES TO ALLOW UNRESTRICTED FLOW IV. PRECONSTRUCTION PLANNING AND TO PREVENT SOIL FROM ENTERING THE WATERBODY, EXAMPLES OF SUCH A. THE PROJECT SPONSOR SHALL DEVELOP PROJECT-SPECIFIC SPILL PREVENTION AND RESPONSE BRIDGES INCLUDE: PROCEDURES THAT MEET APPLICABLE REQUIREMENTS OF STATE AND FEDERAL AGENCIES. A COPY (1) EQUIPMENT PADS AND CULVERT(S); MUST BE FILED WITH THE SECRETARY PRIOR TO CONSTRUCTION AND MADE AVAILABLE IN THE FIELD ON (2) EQUIPMENT PADS OR RAILROAD CAR BRIDGES WITHOUT CULVERTS: EACH CONSTRUCTION SPREAD. THIS FILING REQUIREMENT DOES NOT APPLY TO PROJECTS (3) CLEAN ROCK FILL AND CULVERT(S); AND CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION PROVISIONS IN THE FERC'S REGULATIONS. (4) FLEXI-FLOAT OR PORTABLE BRIDGES. 1. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT SPONSOR AND ITS CONTRACTORS TO ADDITIONAL OPTIONS FOR EQUIPMENT BRIDGES MAY BE UTILIZED THAT STRUCTURE THEIR OPERATIONS IN A MANNER THAT REDUCES THE RISK OF SPILLS OR THE ACHIEVE THE PERFORMANCE OBJECTIVES NOTED ABOVE. DO NOT USE SOIL ACCIDENTAL EXPOSURE OF FUELS OR HAZARDOUS MATERIALS TO WATERBODIES OR TO CONSTRUCT OR STABILIZE EQUIPMENT BRIDGES. WETLANDS. THE PROJECT SPONSOR AND ITS CONTRACTORS MUST, AT A MINIMUM, ENSURE C. DESIGN AND MAINTAIN EACH EQUIPMENT BRIDGE TO WITHSTAND AND PASS THE HIGHEST FLOW EXPECTED TO OCCUR WHILE THE BRIDGE IS IN PLACE. ALIGN A. ALL EMPLOYEES HANDLING FUELS AND OTHER HAZARDOUS MATERIALS ARE CULVERTS TO PREVENT BANK EROSION OR STREAMBED SCOUR. IF NECESSARY, PROPERLY TRAINED; INSTALL ENERGY DISSIPATING DEVICES DOWNSTREAM OF THE CULVERTS. B. ALL EQUIPMENT IS IN GOOD OPERATING ORDER AND INSPECTED ON A REGULAR D. DESIGN AND MAINTAIN EQUIPMENT BRIDGES TO PREVENT SOIL FROM ENTERING THE WATERBODY. C. FUEL TRUCKS TRANSPORTING FUEL TO ON-SITE EQUIPMENT TRAVEL ONLY ON E. REMOVE TEMPORARY EQUIPMENT BRIDGES AS SOON AS PRACTICABLE AFTER APPROVED ACCESS ROADS: PERMANENT SEEDING. D. ALL EQUIPMENT IS PARKED OVERNIGHT AND/OR FUELED AT LEAST 100 FEET FROM F. IF THERE WILL BE MORE THAN 1 MONTH BETWEEN FINAL CLEANUP AND THE A WATERBODY OR IN AN UPLAND AREA AT LEAST 100 FEET FROM A WETLAND BEGINNING OF PERMANENT SEEDING AND REASONABLE ALTERNATIVE ACCESS TO BOUNDARY. THESE ACTIVITIES CAN OCCUR CLOSER ONLY IF THE ENVIRONMENTAL THE RIGHT-OF-WAY IS AVAILABLE, REMOVE TEMPORARY EQUIPMENT BRIDGES AS INSPECTOR DETERMINES THAT THERE IS NO REASONABLE ALTERNATIVE, AND THE SOON AS PRACTICABLE AFTER FINAL CLEANUP. PROJECT SPONSOR AND ITS CONTRACTORS HAVE TAKEN APPROPRIATE STEPS G. OBTAIN ANY NECESSARY APPROVAL FROM THE CODE, OR THE APPROPRIATE (INCLUDING SECONDARY CONTAINMENT STRUCTURES) TO PREVENT SPILLS AND STATE AGENCY FOR PERMANENT BRIDGES. PROVIDE FOR PROMPT CLEANUP IN THE EVENT OF A SPILL; 6. DRY-DITCH CROSSING METHODS A. UNLESS APPROVED OTHERWISE BY THE APPROPRIATE FEDERAL OR STATE E. HAZARDOUS MATERIALS, INCLUDING CHEMICALS, FUELS, AND LUBRICATING OILS, AGENCY, INSTALL THE PIPELINE USING ONE OF THE DRY-DITCH METHODS OUTLINED ARE NOT STORED WITHIN 100 FEET OF A WETLAND, WATERBODY, OR DESIGNATED BELOW FOR CROSSINGS OF WATERBODIES UP TO 30 FEET WIDE (AT THE WATER'S MUNICIPAL WATERSHED AREA, UNLESS THE LOCATION IS DESIGNATED FOR SUCH USE EDGE AT THE TIME OF CONSTRUCTION) THAT ARE STATE-DESIGNATED AS EITHER BY AN APPROPRIATE GOVERNMENTAL AUTHORITY. THIS APPLIES TO STORAGE OF COLDWATER OR SIGNIFICANT COOLWATER OR WARMWATER FISHERIES, OR THESE MATERIALS AND DOES NOT APPLY TO NORMAL OPERATION OR USE OF FEDERALLY-DESIGNATED AS CRITICAL HABITAT. EQUIPMENT IN THESE AREAS; B. DAM AND PUMP F. CONCRETE COATING ACTIVITIES ARE NOT PERFORMED WITHIN 100 FEET OF A (1) THE DAM-AND-PUMP METHOD MAY BE USED WITHOUT PRIOR APPROVAL WETLAND OR WATERBODY BOUNDARY, UNLESS THE LOCATION IS AN EXISTING FOR CROSSINGS OF WATERBODIES WHERE PUMPS CAN ADEQUATELY INDUSTRIAL SITE DESIGNATED FOR SUCH USE. THESE ACTIVITIES CAN OCCUR TRANSFER STREAMFLOW VOLUMES AROUND THE WORK AREA. AND THERE CLOSER ONLY IF THE ENVIRONMENTAL INSPECTOR DETERMINES THAT THERE IS NO ARE NO CONCERNS ABOUT SENSITIVE SPECIES PASSAGE. REASONABLE ALTERNATIVE, AND THE PROJECT SPONSOR AND ITS CONTRACTORS (2) IMPLEMENTATION OF THE DAM-AND-PUMP CROSSING METHOD MUST HAVE TAKEN APPROPRIATE STEPS (INCLUDING SECONDARY CONTAINMENT MEET THE FOLLOWING PERFORMANCE CRITERIA: STRUCTURES) TO PREVENT SPILLS AND PROVIDE FOR PROMPT CLEANUP IN THE (I) USE SUFFICIENT PUMPS, INCLUDING ON-SITE BACKUP PUMPS, TO EVENT OF A SPILL: MAINTAIN DOWNSTREAM FLOWS; G. PUMPS OPERATING WITHIN 100 FEET OF A WATERBODY OR WETLAND BOUNDARY (II) CONSTRUCT DAMS WITH MATERIALS THAT PREVENT SEDIMENT UTILIZE APPROPRIATE SECONDARY CONTAINMENT SYSTEMS TO PREVENT SPILLS; AND OTHER POLLUTANTS FROM ENTERING THE WATERBODY (E.G., AND SANDBAGS OR CLEAN GRAVEL WITH PLASTIC LINER); H. BULK STORAGE OF HAZARDOUS MATERIALS, INCLUDING CHEMICALS, FUELS, AND (III) SCREEN PUMP INTAKES TO MINIMIZE ENTRAINMENT OF FISH; LUBRICATING OILS HAVE APPROPRIATE SECONDARY CONTAINMENT SYSTEMS TO (IV) PREVENT STREAMBED SCOUR AT PUMP DISCHARGE; AND PREVENT SPILLS. (V) CONTINUOUSLY MONITOR THE DAM AND PUMPS TO ENSURE 2. THE PROJECT SPONSOR AND ITS CONTRACTORS MUST STRUCTURE THEIR OPERATIONS IN A PROPER OPERATION THROUGHOUT THE WATERBODY CROSSING. MANNER THAT PROVIDES FOR THE PROMPT AND EFFECTIVE CLEANUP OF SPILLS OF FUEL AND C. FLUME CROSSING OTHER HAZARDOUS MATERIALS. AT A MINIMUM, THE PROJECT SPONSOR AND ITS THE FLUME CROSSING METHOD REQUIRES IMPLEMENTATION OF THE FOLLOWING CONTRACTORS MUST: STEPS: A. ENSURE THAT EACH CONSTRUCTION CREW (INCLUDING CLEANUP CREWS) HAS ON (1) INSTALL FLUME PIPE AFTER BLASTING (IF NECESSARY), BUT BEFORE ANY HAND SUFFICIENT SUPPLIES OF ABSORBENT AND BARRIER MATERIALS TO ALLOW THE TRENCHING: RAPID CONTAINMENT AND RECOVERY OF SPILLED MATERIALS AND KNOWS THE (2) USE SAND BAG OR SAND BAG AND PLASTIC SHEETING DIVERSION PROCEDURE FOR REPORTING SPILLS AND UNANTICIPATED DISCOVERIES OF STRUCTURE OR EQUIVALENT TO DEVELOP AN EFFECTIVE SEAL AND TO CONTAMINATION; DIVERT STREAM FLOW THROUGH THE FLUME PIPE (SOME MODIFICATIONS TO B. ENSURE THAT EACH CONSTRUCTION CREW HAS ON HAND SUFFICIENT TOOLS AND THE STREAM BOTTOM MAY BE REQUIRED TO ACHIEVE AN EFFECTIVE SEAL); MATERIAL TO STOP LEAKS; (3) PROPERLY ALIGN FLUME PIPE(S) TO PREVENT BANK EROSION AND C. KNOW THE CONTACT NAMES AND TELEPHONE NUMBERS FOR ALL LOCAL, STATE, STREAMBED SCOUR: AND FEDERAL AGENCIES (INCLUDING, IF NECESSARY, THE U. S. COAST GUARD AND (4) DO NOT REMOVE FLUME PIPE DURING TRENCHING, PIPELAYING, OR THE NATIONAL RESPONSE CENTER) THAT MUST BE NOTIFIED OF A SPILL; AND BACKFILLING ACTIVITIES, OR INITIAL STREAMBED RESTORATION EFFORTS; D. FOLLOW THE REQUIREMENTS OF THOSE AGENCIES IN CLEANING UP THE SPILL, IN EXCAVATING AND DISPOSING OF SOILS OR OTHER MATERIALS CONTAMINATED BY A (5) REMOVE ALL FLUME PIPES AND DAMS THAT ARE NOT ALSO PART OF THE SPILL, AND IN COLLECTING AND DISPOSING OF WASTE GENERATED DURING SPILL EQUIPMENT BRIDGE AS SOON AS FINAL CLEANUP OF THE STREAM BED AND CLEANUP. BANK IS COMPLETE.

FOR EACH WATERBODY OR WETLAND THAT WOULD BE CROSSED USING THE HDD METHOD, FILE WITH THE SECRETARY FOR THE REVIEW AND WRITTEN APPROVAL BY

THE DIRECTOR, A PLAN THAT INCLUDES: (1) SITE-SPECIFIC CONSTRUCTION DIAGRAMS THAT SHOW THE LOCATION OF MUD PITS, PIPE ASSEMBLY AREAS, AND ALL AREAS TO BE DISTURBED OR CLEARED FOR CONSTRUCTION;

> (2) JUSTIFICATION THAT DISTURBED AREAS ARE LIMITED TO THE MINIMUM NEEDED TO CONSTRUCT THE CROSSING; (3) IDENTIFICATION OF ANY ABOVEGROUND DISTURBANCE OR CLEARING BETWEEN THE HDD ENTRY AND EXIT WORKSPACES DURING CONSTRUCTION; (4) A DESCRIPTION OF HOW AN INADVERTENT RELEASE OF DRILLING MUD

> WOULD BE CONTAINED AND CLEANED UP; AND (5) A CONTINGENCY PLAN FOR CROSSING THE WATERBODY OR WETLAND IN THE EVENT THE HDD IS UNSUCCESSFUL AND HOW THE ABANDONED DRILL

HOLE WOULD BE SEALED. IF NECESSARY THE REQUIREMENT TO FILE HDD PLANS DOES NOT APPLY TO PROJECTS

CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION PROVISIONS IN THE FERC'S REGULATIONS. 7. CROSSINGS OF MINOR WATERBODIES

WHERE A DRY-DITCH CROSSING IS NOT REQUIRED, MINOR WATERBODIES MAY BE CROSSED USING THE OPEN-CUT CROSSING METHOD, WITH THE FOLLOWING RESTRICTIONS: A. EXCEPT FOR BLASTING AND OTHER ROCK BREAKING MEASURES, COMPLETE

INSTREAM CONSTRUCTION ACTIVITIES (INCLUDING TRENCHING, PIPE INSTALLATION, BACKFILL, AND RESTORATION OF THE STREAMBED CONTOURS) WITHIN 24 HOURS. STREAMBANKS AND UNCONSOLIDATED STREAMBEDS MAY REQUIRE ADDITIONAL RESTORATION AFTER THIS PERIOD;

B. LIMIT USE OF EQUIPMENT OPERATING IN THE WATERBODY TO THAT NEEDED TO CONSTRUCT THE CROSSING; AND C. EQUIPMENT BRIDGES ARE NOT REQUIRED AT MINOR WATERBODIES THAT DO NOT

HAVE A STATE-DESIGNATED FISHERY CLASSIFICATION OR PROTECTED STATUS (E.G., AGRICULTURAL OR INTERMITTENT DRAINAGE DITCHES). HOWEVER, IF AN EQUIPMENT BRIDGE IS USED IT MUST BE CONSTRUCTED AS DESCRIBED IN SECTION V.B.5. 8. CROSSINGS OF INTERMEDIATE WATERBODIES

WHERE A DRY-DITCH CROSSING IS NOT REQUIRED, INTERMEDIATE WATERBODIES MAY BE CROSSED USING THE OPEN-CUT CROSSING METHOD, WITH THE FOLLOWING RESTRICTIONS: A. COMPLETE INSTREAM CONSTRUCTION ACTIVITIES (NOT INCLUDING BLASTING AND OTHER ROCK BREAKING MEASURES) WITHIN 48 HOURS, UNLESS SITE-SPECIFIC CONDITIONS MAKE COMPLETION WITHIN 48 HOURS INFEASIBLE:

B. LIMIT USE OF EQUIPMENT OPERATING IN THE WATERBODY TO THAT NEEDED TO CONSTRUCT THE CROSSING; AND C. ALL OTHER CONSTRUCTION EQUIPMENT MUST CROSS ON AN EQUIPMENT BRIDGE

AS SPECIFIED IN SECTION V.B.5. 9. CROSSINGS OF MAJOR WATERBODIES

BEFORE CONSTRUCTION, THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY FOR THE REVIEW AND WRITTEN APPROVAL BY THE DIRECTOR A DETAILED, SITE-SPECIFIC CONSTRUCTION PLAN AND SCALED DRAWINGS IDENTIFYING ALL AREAS TO BE DISTURBED BY CONSTRUCTION FOR EACH MAJOR WATERBODY CROSSING (THE SCALED DRAWINGS ARE NOT REQUIRED FOR ANY OFFSHORE PORTIONS OF PIPELINE PROJECTS). THIS PLAN MUST BE DEVELOPED IN CONSULTATION WITH THE APPROPRIATE STATE AND FEDERAL AGENCIES AND SHALL INCLUDE EXTRA WORK AREAS, SPOIL STORAGE AREAS, SEDIMENT CONTROL STRUCTURES, ETC., AS WELL AS MITIGATION FOR NAVIGATIONAL ISSUES. THE REQUIREMENT TO FILE MAJOR WATERBODY CROSSING PLANS DOES NOT APPLY TO PROJECTS CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION PROVISIONS OF THE FERC'S REGULATIONS. THE ENVIRONMENTAL INSPECTOR MAY ADJUST THE FINAL PLACEMENT OF THE EROSION AND SEDIMENT CONTROL STRUCTURES IN THE FIELD TO MAXIMIZE EFFECTIVENESS.

10. TEMPORARY EROSION AND SEDIMENT CONTROL INSTALL SEDIMENT BARRIERS (AS DEFINED IN SECTION IV.F.3.A OF THE PLAN) IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE WATERBODY OR ADJACENT UPLAND.SEDIMENT BARRIERS MUST BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION AND REINSTALLED AS NECESSARY (SUCH AS AFTER BACKFILLING OF THE TRENCH) UNTIL REPLACED BY PERMANENT EROSION CONTROLS OR RESTORATION OF ADJACENT UPLAND AREAS IS COMPLETE. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE ADDRESSED IN MORE DETAIL IN THE PLAN; HOWEVER, THE FOLLOWING SPECIFIC MEASURES MUST BE IMPLEMENTED AT

STREAM CROSSINGS A. INSTALL SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION RIGHT-OF-WAY AT ALL WATERBODY CROSSINGS, WHERE NECESSARY TO PREVENT THE FLOW OF SEDIMENTS INTO THE WATERBODY. REMOVABLE SEDIMENT BARRIERS (OR DRIVEABLE BERMS) MUST BE INSTALLED ACROSS THE TRAVEL LANE. THESE REMOVABLE SEDIMENT BARRIERS CAN BE REMOVED DURING THE CONSTRUCTION DAY, BUT MUST BE RE-INSTALLED AFTER CONSTRUCTION HAS STOPPED FOR THE DAY AND/OR WHEN

HEAVY PRECIPITATION IS IMMINENT; B. WHERE WATERBODIES ARE ADJACENT TO THE CONSTRUCTION RIGHT-OF-WAY AND THE RIGHT-OF-WAY SLOPES TOWARD THE WATERBODY, INSTALL SEDIMENT BARRIERS ALONG THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY AS NECESSARY TO CONTAIN SPOIL WITHIN THE CONSTRUCTION RIGHT-OF-WAY AND PREVENT SEDIMENT FLOW

INTO THE WATERBODY; AND C. USE TEMPORARY TRENCH PLUGS AT ALL WATERBODY CROSSINGS, AS NECESSARY, TO PREVENT DIVERSION OF WATER INTO UPLAND PORTIONS OF THE PIPELINE TRENCH AND TO KEEP ANY ACCUMULATED TRENCH WATER OUT OF THE WATERBODY.

11 TRENCH DEWATERING DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY. REMOVE THE DEWATERING STRUCTURES AS SOON AS PRACTICABLE AFTER THE COMPLETION OF DEWATERING ACTIVITIES.

C. RESTORATION

1. USE CLEAN GRAVEL OR NATIVE COBBLES FOR THE UPPER 1 FOOT OF TRENCH BACKFILL IN ALL WATERBODIES THAT CONTAIN COLDWATER FISHERIES. 2. FOR OPEN-CUT CROSSINGS, STABILIZE WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24 HOURS OF COMPLETING INSTREAM CONSTRUCTION ACTIVITIES. FOR DRY-DITCH CROSSINGS, COMPLETE STREAMBED AND BANK STABILIZATION

BEFORE RETURNING FLOW TO THE WATERBODY CHANNEL. 3. RETURN ALL WATERBODY BANKS TO PRECONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR.

4. INSTALL EROSION CONTROL FABRIC OR A FUNCTIONAL EQUIVALENT ON WATERBODY BANKS AT THE TIME OF FINAL BANK RECONTOURING. DO NOT USE SYNTHETIC MONOFILAMENT MESH/NETTED EROSION CONTROL MATERIALS IN AREAS DESIGNATED AS SENSITIVE WILDLIFE HABITAT UNLESS THE PRODUCT IS SPECIFICALLY DESIGNED TO MINIMIZE HARM TO WILDLIFE. ANCHOR EROSION CONTROL FABRIC WITH STAPLES OR OTHER APPROPRIATE DEVICES. 5. APPLICATION OF RIPRAP FOR BANK STABILIZATION MUST COMPLY WITH COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CONDITIONS.

6. UNLESS OTHERWISE SPECIFIED BY STATE PERMIT, LIMIT THE USE OF RIPRAP TO AREAS WHERE FLOW CONDITIONS PRECLUDE EFFECTIVE VEGETATIVE STABILIZATION TECHNIQUES SUCH AS SEEDING AND EROSION CONTROL FABRIC.

7. REVEGETATE DISTURBED RIPARIAN AREAS WITH NATIVE SPECIES OF CONSERVATION GRASSES, LEGUMES, AND WOODY SPECIES, SIMILAR IN DENSITY TO ADJACENT UNDISTURBED LANDS.

8. INSTALL A PERMANENT SLOPE BREAKER ACROSS THE CONSTRUCTION RIGHT-OF-WAY AT THE BASE OF SLOPES GREATER THAN 5 PERCENT THAT ARE LESS THAN 50 FEET FROM THE WATERBODY, OR AS NEEDED TO PREVENT SEDIMENT TRANSPORT INTO THE WATERBODY. IN ADDITION, INSTALL SEDIMENT BARRIERS AS OUTLINED IN THE PLAN. IN SOME AREAS, WITH THE APPROVAL OF THE ENVIRONMENTAL INSPECTOR, AN EARTHEN BERM MAY BE SUITABLE AS A SEDIMENT BARRIER ADJACENT TO THE WATERBODY. 9. SECTIONS V.C.3 THROUGH V.C.7 ABOVE ALSO APPLY TO THOSE PERENNIAL OR INTERMITTENT STREAMS NOT FLOWING AT THE TIME OF CONSTRUCTION.

D. POST-CONSTRUCTION MAINTENANCE

1. LIMIT ROUTINE VEGETATION MOWING OR CLEARING ADJACENT TO WATERBODIES TO ALLOW A RIPARIAN STRIP AT LEAST 25 FEET WIDE, AS MEASURED FROM THE WATERBODY'S MEAN HIGH WATER MARK, TO PERMANENTLY REVEGETATE WITH NATIVE PLANT SPECIES ACROSS THE ENTIRE CONSTRUCTION RIGHT-OF-WAY. HOWEVER, TO FACILITATE PERIODIC CORROSION/LEAK SURVEYS, A CORRIDOR CENTERED ON THE PIPELINE AND UP TO 10 FEET WIDE MAY BE CLEARED AT A FREQUENCY NECESSARY TO MAINTAIN THE 10-FOOT CORRIDOR IN AN HERBACEOUS STATE. IN ADDITION, TREES THAT ARE LOCATED WITHIN 15 FEET OF THE PIPELINE THAT HAVE ROOTS THAT COULD COMPROMISE THE INTEGRITY OF THE PIPELINE COATING MAY BE CUT AND REMOVED FROM THE PERMANENT RIGHT-OF-WAY. DO NOT CONDUCT ANY ROUTINE VEGETATION MOWING OR CLEARING IN RIPARIAN AREAS THAT ARE BETWEEN HDD ENTRY AND EXIT POINTS.

2. DO NOT USE HERBICIDES OR PESTICIDES IN OR WITHIN 100 FEET OF A WATERBODY EXCEPT AS ALLOWED BY THE APPROPRIATE LAND MANAGEMENT OR STATE AGENCY. 3. TIME OF YEAR RESTRICTIONS SPECIFIED IN SECTION VII.A.5 OF THE PLAN (APRIL 15 - AUGUST 1 OF ANY YEAR) APPLY TO ROUTINE MOWING AND CLEARING OF RIPARIAN AREAS.

VI. WETLAND CROSSINGS A. GENERAL

1. THE PROJECT SPONSOR SHALL CONDUCT A WETLAND DELINEATION USING THE CURRENT FEDERAL METHODOLOGY AND FILE A WETLAND DELINEATION REPORT WITH THE SECRETARY BEFORE CONSTRUCTION. THE REQUIREMENT TO FILE A WETLAND DELINEATION REPORT DOES NOT APPLY TO PROJECTS CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION PROVISIONS IN THE FERC'S REGULATIONS.

THIS REPORT SHALL IDENTIFY:

A. BY MILEPOST ALL WETLANDS THAT WOULD BE AFFECTED; B. THE NATIONAL WETLANDS INVENTORY (NWI) CLASSIFICATION FOR EACH WETLAND:

C. THE CROSSING LENGTH OF EACH WETLAND IN FEET; AND

D. THE AREA OF PERMANENT AND TEMPORARY DISTURBANCE THAT WOULD

OCCUR IN EACH WETLAND BY NWI CLASSIFICATION TYPE THE REQUIREMENTS OUTLINED IN THIS SECTION DO NOT APPLY TO WETLANDS IN ACTIVELY CULTIVATED OR ROTATED CROPLAND. STANDARD UPLAND PROTECTIVE MEASURES, INCLUDING WORKSPACE AND TOPSOILING REQUIREMENTS, APPLY TO

THESE AGRICULTURAL WETLANDS. 2. ROUTE THE PIPELINE TO AVOID WETLAND AREAS TO THE MAXIMUM EXTENT POSSIBLE. IF A WETLAND CANNOT BE AVOIDED OR CROSSED BY FOLLOWING AN EXISTING RIGHT-OF-WAY, ROUTE THE NEW PIPELINE IN A MANNER THAT MINIMIZES DISTURBANCE TO WETLANDS. WHERE LOOPING AN EXISTING PIPELINE, OVERLAP THE EXISTING PIPELINE RIGHT-OF-WAY WITH THE NEW CONSTRUCTION RIGHT-OF-WAY. IN ADDITION, LOCATE THE LOOP LINE NO MORE THAN 25 FEET AWAY FROM THE EXISTING PIPELINE UNLESS SITE-SPECIFIC CONSTRAINTS WOULD ADVERSELY AFFECT THE STABILITY OF THE EXISTING

PIPELINE. 3. LIMIT THE WIDTH OF THE CONSTRUCTION RIGHT-OF-WAY TO 75 FEET OR LESS. PRIOR WRITTEN APPROVAL OF THE DIRECTOR IS REQUIRED WHERE TOPOGRAPHIC CONDITIONS OR SOIL LIMITATIONS REQUIRE THAT THE CONSTRUCTION RIGHT-OF-WAY WIDTH WITHIN THE BOUNDARIES OF A FEDERALLY DELINEATED WETLAND BE EXPANDED BEYOND 75 FEET EARLY IN THE PLANNING PROCESS THE PROJECT SPONSOR IS ENCOURAGED TO IDENTIFY SITE-SPECIFIC AREAS WHERE EXCESSIVELY WIDE TRENCHES COULD OCCUR AND/OR WHERE SPOIL PILES COULD BE DIFFICULT TO MAINTAIN BECAUSE EXISTING SOILS LACK ADEQUATE UNCONFINED COMPRESSIVE STRENGTH.

4. WETLAND BOUNDARIES AND BUFFERS MUST BE CLEARLY MARKED IN THE FIELD WITH SIGNS AND/OR HIGHLY VISIBLE FLAGGING UNTIL CONSTRUCTION-RELATED GROUND DISTURBING ACTIVITIES ARE COMPLETE.

5. IMPLEMENT THE MEASURES OF SECTIONS V AND VI IN THE EVENT A WATERBODY CROSSING IS LOCATED WITHIN OR ADJACENT TO A WETLAND CROSSING. IF ALL MEASURES OF SECTIONS V AND VI CANNOT BE MET, THE PROJECT SPONSOR MUST FILE WITH THE SECRETARY A SITE-SPECIFIC CROSSING PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE DIRECTOR BEFORE CONSTRUCTION. THIS CROSSING PLAN SHALL ADDRESS AT A MINIMUM:

A. SPOIL CONTROL;

B. EQUIPMENT BRIDGES; C. RESTORATION OF WATERBODY BANKS AND WETLAND HYDROLOGY;

D. TIMING OF THE WATERBODY CROSSING: E. METHOD OF CROSSING: AND

F. SIZE AND LOCATION OF ALL EXTRA WORK AREAS.

6. DO NOT LOCATE ABOVEGROUND FACILITIES IN ANY WETLAND, EXCEPT WHERE THE LOCATION OF SUCH FACILITIES OUTSIDE OF WETLANDS WOULD PROHIBIT COMPLIANCE WITH U.S. DEPARTMENT OF TRANSPORTATION REGULATIONS.

B. INSTALLATION 1. EXTRA WORK AREAS AND ACCESS ROADS

A. LOCATE ALL EXTRA WORK AREAS (SUCH AS STAGING AREAS AND ADDITIONAL SPOIL STORAGE AREAS) AT LEAST 50 FEET AWAY FROM WETLAND BOUNDARIES, EXCEPT WHERE THE ADJACENT UPLAND CONSISTS OF CULTIVATED OR ROTATED CROPLAND OR OTHER DISTURBED LAND B. THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY FOR REVIEW AND

WRITTEN APPROVAL BY THE DIRECTOR, SITE-SPECIFIC JUSTIFICATION FOR EACH EXTRA WORK AREA WITH A LESS THAN 50-FOOT SETBACK FROM WETLAND BOUNDARIES, EXCEPT WHERE ADJACENT UPLAND CONSISTS OF CULTIVATED OR ROTATED CROPLAND OR OTHER DISTURBED LAND. THE JUSTIFICATION MUST SPECIFY THE SITE-SPECIFIC CONDITIONS THAT WILL NOT PERMIT A 50-FOOT SETBACK AND MEASURES TO ENSURE THE WETLAND IS ADEQUATELY PROTECTED C. THE CONSTRUCTION RIGHT-OF-WAY MAY BE USED FOR ACCESS WHEN THE WETLAND SOIL IS FIRM ENOUGH TO AVOID RUTTING OR THE CONSTRUCTION RIGHT-OF-WAY HAS BEEN APPROPRIATELY STABILIZED TO AVOID RUTTING (E.G. WITH TIMBER RIPRAP, PREFABRICATED EQUIPMENT MATS, OR TERRA MATS). IN WETLANDS THAT CANNOT BE APPROPRIATELY STABILIZED, ALL CONSTRUCTION EQUIPMENT OTHER THAN THAT NEEDED TO INSTALL THE WETLAND CROSSING

USE ACCESS ROADS LOCATED IN UPLAND AREAS. WHERE ACCESS ROADS IN UPLAND AREAS DO NOT PROVIDE REASONABLE ACCESS, LIMIT ALL OTHER CONSTRUCTION EQUIPMENT TO ONE PASS THROUGH THE WETLAND USING THE CONSTRUCTION RIGHT-OF-WAY.

D. THE ONLY ACCESS ROADS, OTHER THAN THE CONSTRUCTION RIGHT-OF-WAY, THAT CAN BE USED IN WETLANDS ARE THOSE EXISTING ROADS THAT CAN BE USED WITH NO MODIFICATIONS OR IMPROVEMENTS, OTHER THAN ROUTINE REPAIR, AND NO IMPACT ON THE WETLAND.

2. CROSSING PROCEDURES

A. COMPLY WITH COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CONDITIONS.

B. ASSEMBLE THE PIPELINE IN AN UPLAND AREA UNLESS THE WETLAND IS DRY ENOUGH TO ADEQUATELY SUPPORT SKIDS AND PIPE.

C. USE "PUSH-PULL" OR "FLOAT" TECHNIQUES TO PLACE THE PIPE IN THE TRENCH WHERE WATER AND OTHER SITE CONDITIONS ALLOW. D. MINIMIZE THE LENGTH OF TIME THAT TOPSOIL IS SEGREGATED AND THE

TRENCH IS OPEN. DO NOT TRENCH THE WETLAND UNTIL THE PIPELINE IS ASSEMBLED AND READY FOR LOWERING IN. E. LIMIT CONSTRUCTION EQUIPMENT OPERATING IN WETLAND AREAS TO THAT

NEEDED TO CLEAR THE CONSTRUCTION RIGHT-OF-WAY, DIG THE TRENCH, FABRICATE AND INSTALL THE PIPELINE, BACKFILL THE TRENCH, AND RESTORE THE CONSTRUCTION RIGHT-OF-WAY.

F. CUT VEGETATION JUST ABOVE GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE, AND REMOVE IT FROM THE WETLAND FOR DISPOSAL. THE PROJECT SPONSOR CAN BURN WOODY DEBRIS IN WETLANDS, IF APPROVED BY THE COE AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS, ENSURING THAT ALL REMAINING WOODY DEBRIS IS REMOVED FOR DISPOSAL G. LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER THE TRENCHLINE. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE CONSTRUCTION RIGHT-OF-WAY IN WETLANDS UNLESS THE CHIEF INSPECTOR AND ENVIRONMENTAL INSPECTOR DETERMINE THAT SAFETY-RELATED CONSTRUCTION CONSTRAINTS REQUIRE GRADING OR THE REMOVAL OF TREE STUMPS FROM UNDER THE WORKING SIDE OF THE

CONSTRUCTION RIGHT-OF-WAY. H. SEGREGATE THE TOP 1 FOOT OF TOPSOIL FROM THE AREA DISTURBED BY TRENCHING, EXCEPT IN AREAS WHERE STANDING WATER IS PRESENT OR SOILS ARE

SATURATED. IMMEDIATELY AFTER BACKFILLING IS COMPLETE, RESTORE THE SEGREGATED TOPSOIL TO ITS ORIGINAL LOCATION.

I. DO NOT USE ROCK, SOIL IMPORTED FROM OUTSIDE THE WETLAND, TREE STUMPS, OR BRUSH RIPRAP TO SUPPORT EQUIPMENT ON THE CONSTRUCTION RIGHT-OF-WAY.

J. IF STANDING WATER OR SATURATED SOILS ARE PRESENT, OR IF CONSTRUCTION EQUIPMENT CAUSES RUTS OR MIXING OF THE TOPSOIL AND SUBSOIL IN WETLANDS, USE LOW-GROUND-WEIGHT CONSTRUCTION EQUIPMENT, OR OPERATE NORMAL EQUIPMENT ON TIMBER RIPRAP, PREFABRICATED EQUIPMENT MATS, OR TERRA MATS.

K. REMOVE ALL PROJECT-RELATED MATERIAL USED TO SUPPORT EQUIPMENT ON THE CONSTRUCTION RIGHT-OF-WAY UPON COMPLETION OF CONSTRUCTION. 3. TEMPORARY SEDIMENT CONTROL

INSTALL SEDIMENT BARRIERS (AS DEFINED IN SECTION IV.F.3.A OF THE PLAN) IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE WETLAND OR ADJACENT UPLAND. SEDIMENT BARRIERS MUST BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION AND REINSTALLED AS NECESSARY (SUCH AS AFTER BACKFILLING OF THE TRENCH). EXCEPT AS NOTED BELOW IN SECTION VI.B.3.C, MAINTAIN SEDIMENT BARRIERS UNTIL REPLACED BY PERMANENT EROSION CONTROLS OR RESTORATION OF ADJACENT UPLAND AREAS IS COMPLETE. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE ADDRESSED IN MORE DETAIL IN THE PLAN.

A. INSTALL SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION	REV. /	DATE	DESCRIPTION
RIGHT-OF-WAY IMMEDIATELY UPSLOPE OF THE WETLAND BOUNDARY AT ALL WETLAND CROSSINGS WHERE NECESSARY TO PREVENT SEDIMENT FLOW INTO THE WETLAND.	ISSUE		
B. WHERE WETLANDS ARE ADJACENT TO THE CONSTRUCTION RIGHT-OF-WAY AND THE RIGHT-OF-WAY SLOPES TOWARD THE WETLAND, INSTALL SEDIMENT			
BARRIERS ALONG THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY AS NECESSARY TO CONTAIN SPOIL WITHIN THE CONSTRUCTION RIGHT-OF-WAY AND PREVENT SEDIMENT FLOW INTO THE WETLAND.			
C. INSTALL SEDIMENT BARRIERS ALONG THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY AS NECESSARY TO CONTAIN SPOIL AND SEDIMENT WITHIN THE CONSTRUCTION RIGHT-OF-WAY THROUGH WETLANDS. REMOVE THESE SEDIMENT			
BARRIERS DURING RIGHT-OF-WAY CLEANUP. 4. TRENCH DEWATERING			
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WETLAND. REMOVE THE DEWATERING STRUCTURES AS SOON AS			
PRACTICABLE AFTER THE COMPLETION OF DEWATERING ACTIVITIES. C. RESTORATION			
1. WHERE THE PIPELINE TRENCH MAY DRAIN A WETLAND, CONSTRUCT TRENCH BREAKERS AT THE WETLAND BOUNDARIES AND/OR SEAL THE TRENCH BOTTOM AS NECESSARY TO MAINTAIN THE ORIGINAL WETLAND HYDROLOGY.			
2. RESTORE PRE-CONSTRUCTION WETLAND CONTOURS TO MAINTAIN THE ORIGINAL WETLAND HYDROLOGY.			
3. FOR EACH WETLAND CROSSED, INSTALL A TRENCH BREAKER AT THE BASE OF SLOPES NEAR THE BOUNDARY BETWEEN THE WETLAND AND ADJACENT UPLAND AREAS. INSTALL A PERMANENT SLOPE BREAKER ACROSS THE CONSTRUCTION RIGHT-OF-WAY AT THE BASE			
OF SLOPES GREATER THAN 5 PERCENT WHERE THE BASE OF THE SLOPE IS LESS THAN 50 FEET FROM THE WETLAND, OR AS NEEDED TO PREVENT SEDIMENT TRANSPORT INTO THE WETLAND. IN ADDITION, INSTALL SEDIMENT BARRIERS AS OUTLINED IN THE PLAN. IN SOME			
AREAS, WITH THE APPROVAL OF THE ENVIRONMENTAL INSPECTOR, AN EARTHEN BERM MAY BE SUITABLE AS A SEDIMENT BARRIER ADJACENT TO THE WETLAND.			
4. DO NOT USE FERTILIZER, LIME, OR MULCH UNLESS REQUIRED IN WRITING BY THE APPROPRIATE FEDERAL OR STATE AGENCY. 5. CONSULT WITH THE APPROPRIATE FEDERAL OR STATE AGENCIES TO DEVELOP A			
PROJECT-SPECIFIC WETLAND RESTORATION PLAN. THE RESTORATION PLAN SHALL INCLUDE MEASURES FOR RE-ESTABLISHING HERBACEOUS AND/OR WOODY SPECIES, CONTROLLING THE INVASION AND SPREAD OF INVASIVE SPECIES AND NOXIOUS WEEDS			
(E.G., PURPLE LOOSESTRIFE AND PHRAGMITES), AND MONITORING THE SUCCESS OF THE REVEGETATION AND WEED CONTROL EFFORTS. PROVIDE THIS PLAN TO THE FERC STAFF			
UPON REQUEST. 6. UNTIL A PROJECT-SPECIFIC WETLAND RESTORATION PLAN IS DEVELOPED AND/OR IMPLEMENTED, TEMPORARILY REVEGETATE THE CONSTRUCTION RIGHT-OF-WAY WITH			
ANNUAL RYEGRASS AT A RATE OF 40 POUNDS/ACRE (UNLESS STANDING WATER IS PRESENT).			
7. ENSURE THAT ALL DISTURBED AREAS SUCCESSFULLY REVEGETATE WITH WETLAND HERBACEOUS AND/OR WOODY PLANT SPECIES. 8. REMOVE TEMPORARY SEDIMENT BARRIERS LOCATED AT THE BOUNDARY BETWEEN			
WETLAND AND ADJACENT UPLAND AREAS AFTER REVEGETATION AND STABILIZATION OF ADJACENT UPLAND AREAS ARE JUDGED TO BE SUCCESSFUL AS SPECIFIED IN SECTION VII.A.4 OF THE PLAN.			
D. POST-CONSTRUCTION MAINTENANCE AND REPORTING 1. DO NOT CONDUCT ROUTINE VEGETATION MOWING OR CLEARING OVER THE FULL WIDTH			
OF THE PERMANENT RIGHT-OF-WAY IN WETLANDS. HOWEVER, TO FACILITATE PERIODIC CORROSION/LEAK SURVEYS, A CORRIDOR CENTERED ON THE PIPELINE AND UP TO 10 FEET WIDE MAY BE CLEARED AT A FREQUENCY NECESSARY TO MAINTAIN THE 10-FOOT	I AM A	DULY REGISTER	ED PROFESSIONAL LAND SURVEYOR UNDER
CORRIDOR IN AN HERBACEOUS STATE. IN ADDITION, TREES WITHIN 15 FEET OF THE PIPELINE WITH ROOTS THAT COULD COMPROMISE THE INTEGRITY OF PIPELINE COATING	THE LA THAT E PREPAR	WS OF THE STA XISTING CONDITI RED UNDER MY	TE OF NEW JERSEY AND I HEREBY CERTIFY ONS SHOWN WERE FIELD LOCATED AND DIRECT SUPERVISION.
MAY BE SELECTIVELY CUT AND REMOVED FROM THE PERMANENT RIGHT-OF-WAY. DO NOT CONDUCT ANY ROUTINE VEGETATION MOWING OR CLEARING IN WETLANDS THAT ARE BETWEEN HDD ENTRY AND EXIT POINTS.		DW SM	S J. MURPHY, PLS IITH ASSOCIATES, LLC ROUTE 34, WALL, NJ 07753
2. DO NOT USE HERBICIDES OR PESTICIDES IN OR WITHIN 100 FEET OF A WETLAND, EXCEPT AS ALLOWED BY THE APPROPRIATE FEDERAL OR STATE AGENCY. 3. TIME OF YEAR RESTRICTIONS SPECIFIED IN SECTION VII.A.5 OF THE PLAN (APRIL 15 -	PF	ROFESSIO	DNAL LAND SURVEYOR 37207 COA NO. 24GA28122400
AUGUST 1 OF ANY YEAR) APPLY TO ROUTINE MOWING AND CLEARING OF WETLAND AREAS. 4. MONITOR AND RECORD THE SUCCESS OF WETLAND REVEGETATION ANNUALLY UNTIL			
WETLAND REVEGETATION IS SUCCESSFUL. 5. WETLAND REVEGETATION SHALL BE CONSIDERED SUCCESSFUL IF ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:	I AM A		DATE ED PROFESSIONAL ENGINEER UNDER THE LAWS
A. THE AFFECTED WETLAND SATISFIES THE CURRENT FEDERAL DEFINITION FOR A WETLAND (I.E., SOILS, HYDROLOGY, AND VEGETATION); B. VEGETATION IS AT LEAST 80 PERCENT OF EITHER THE COVER DOCUMENTED	OF THE PROPOS AND CC	SED ENVIRONMEN DRRESPOND WITH	ADERSEY AND I HEREBY CERTIFY THAT THE ITAL DISTURBANCES SHOWN ARE ACCURATE THE DETAILED ENGINEERING DRAWINGS.
FOR THE WETLAND PRIOR TO CONSTRUCTION, OR AT LEAST 80 PERCENT OF THE COVER IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY	1433		PS&S, LLC 34, SUITE A-4, WALL, NJ 07727
CONSTRUCTION; C. IF NATURAL RATHER THAN ACTIVE REVEGETATION WAS USED, THE PLANT SPECIES COMPOSITION IS CONSISTENT WITH EARLY SUCCESSIONAL WETLAND		-	SSIONAL ENGINEER 41319 COA NO. 24GA28032700
PLANT COMMUNITIES IN THE AFFECTED ECOREGION; AND D. INVASIVE SPECIES AND NOXIOUS WEEDS ARE ABSENT, UNLESS THEY ARE ABUNDANT IN ADJACENT AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION.		M.h	(01/15/20
6. WITHIN 3 YEARS AFTER CONSTRUCTION, FILE A REPORT WITH THE SECRETARY	SIGN	IATURE	DATE PAULUS, SOKOLOWSKI
IDENTIFYING THE STATUS OF THE WETLAND REVEGETATION EFFORTS AND DOCUMENTING SUCCESS AS DEFINED IN SECTION VI.D.5, ABOVE. THE REQUIREMENT TO FILE WETLAND RESTORATION REPORTS WITH THE SECRETARY DOES NOT APPLY TO PROJECTS			AND SARTOR, LLC.
CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION, PRIOR NOTICE, OR ADVANCE NOTICE PROVISIONS IN THE FERC'S REGULATIONS.			1433 ROUTE 34
FOR ANY WETLAND WHERE REVEGETATION IS NOT SUCCESSFUL AT THE END OF 3 YEARS AFTER CONSTRUCTION, DEVELOP AND IMPLEMENT (IN CONSULTATION WITH A		585	SUITE A4 WALL, NJ 07727 PHONE: (848) 206-2626
PROFESSIONAL WETLAND ECOLOGIST) A REMEDIAL REVEGETATION PLAN TO ACTIVELY REVEGETATE WETLANDS. CONTINUE REVEGETATION EFFORTS AND FILE A REPORT ANNUALLY DOCUMENTING PROGRESS IN THESE WETLANDS UNTIL WETLAND			AUTHORIZATION NO. 24GA28032700 IFIED BY THE CONTRACTOR. NOTIFY PAULUS, SOKOLOWSKI INFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THE IFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
REVEGETATION IS SUCCESSFUL.	ALL DIMENS DRAWINGS.	SIONS SHALL BE A DO NOT SCALE THE	AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT E DRAWINGS TO DETERMINE DIMENSIONS.
A. NOTIFICATION PROCEDURES AND PERMITS 1. APPLY FOR STATE-ISSUED WATER WITHDRAWAL PERMITS, AS REQUIRED.		NG AND/OR MODIFI HE WRITTEN PERMI	CONTAIN DATA INTENDED SPECIFICALLY FOR THE NOTED ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS NY OTHER PROJECT. CATION OF THIS DOCUMENT OR ANY PORTION THEREOF SSION OF PAULUS, SOKOLOWSKI AND SARTOR, LLC. IS
2. APPLY FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OR STATE-ISSUED DISCHARGE PERMITS, AS REQUIRED. 3. NOTIFY APPROPRIATE STATE AGENCIES OF INTENT TO USE SPECIFIC SOURCES AT LEAST		ESE DRAWINGS AR WINGS SHALL NOT E NTRACTORS SHALL	E SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION
48 HOURS BEFORE TESTING ACTIVITIES UNLESS THEY WAIVE THIS REQUIREMENT IN WRITING. B. GENERAL	COPYRIGHT	2017 PAULUS, SOK	OLOWSKI AND SARTOR, LLC ALL RIGHTS RESERVED.
1. PERFORM 100 PERCENT RADIOGRAPHIC INSPECTION OF ALL PIPELINE SECTION WELDS OR HYDROTEST THE PIPELINE SECTIONS, BEFORE INSTALLATION UNDER WATERBODIES OR WETLANDS.	PROJ		HEAST SUPPLY
WEILANDS. 2. IF PUMPS USED FOR HYDROSTATIC TESTING ARE WITHIN 100 FEET OF ANY WATERBODY OR WETLAND, ADDRESS SECONDARY CONTAINMENT AND REFUELING OF THESE PUMPS IN	E		EMENT PROJECT
THE PROJECT'S SPILL PREVENTION AND RESPONSE PROCEDURES. 3. THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY BEFORE CONSTRUCTION A LIST IDENTIFYING THE LOCATION OF ALL WATERBODIES PROPOSED FOR USE AS A			ROPOSED SSOR STATION 206
HYDROSTATIC TEST WATER SOURCE OR DISCHARGE LOCATION. THIS FILING REQUIREMENT DOES NOT APPLY TO PROJECTS CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION	В	LOCK 5.02, LC	DTS 25, 20 (FORMERLY 23) & 26.01 KLIN, SOMERSET COUNTY, NEW JERSEY
PROVISIONS OF THE FERC'S REGULATIONS. C. INTAKE SOURCE AND RATE 1. SCREEN THE INTAKE HOSE TO MINIMIZE THE POTENTIAL FOR ENTRAINMENT OF FISH.			ALIN, OUWLROET OUUNTY, NEW JERSEY
2. DO NOT USE STATE-DESIGNATED EXCEPTIONAL VALUE WATERS, WATERBODIES WHICH PROVIDE HABITAT FOR FEDERALLY LISTED THREATENED OR ENDANGERED SPECIES, OR WATERBODIES DESIGNATED AS DURING WATER SUBDIES. UNITES ADDRODDIATE EEDERAL		CON	STRUCTION
WATERBODIES DESIGNATED AS PUBLIC WATER SUPPLIES, UNLESS APPROPRIATE FEDERAL, STATE, AND/OR LOCAL PERMITTING AGENCIES GRANT WRITTEN PERMISSION. 3. MAINTAIN ADEQUATE FLOW RATES TO PROTECT AQUATIC LIFE, PROVIDE FOR ALL		Ι	DETAILS
WATERBODY USES, AND PROVIDE FOR DOWNSTREAM WITHDRAWALS OF WATER BY EXISTING USERS. 4. LOCATE HYDROSTATIC TEST MANIFOLDS OUTSIDE WETLANDS AND RIPARIAN AREAS TO			
THE MAXIMUM EXTENT PRACTICABLE. D. DISCHARGE LOCATION, METHOD, AND RATE			
1. REGULATE DISCHARGE RATE, USE ENERGY DISSIPATION DEVICE(S), AND INSTALL SEDIMENT BARRIERS, AS NECESSARY, TO PREVENT EROSION, STREAMBED SCOUR, SUSPENSION OF SEDIMENTS, OR EXCESSIVE STREAMFLOW.	PROJE SCALE	CT NO.: 057:	31.0003DRAWN BY:JPSSHOWNCHECKED BY: WS
2. DO NOT DISCHARGE INTO STATE-DESIGNATED EXCEPTIONAL VALUE WATERS, WATERBODIES WHICH PROVIDE HABITAT FOR FEDERALLY LISTED THREATENED OR ENDANGERED SPECIES, OR WATERBODIES DESIGNATED AS PUBLIC WATER SUPPLIES,	DATE: SHEET		5-2020 SHEET 8 OF 8
UNLESS APPROPRIATE FEDERAL, STATE, AND LOCAL PERMITTING AGENCIES GRANT WRITTEN PERMISSION.			8