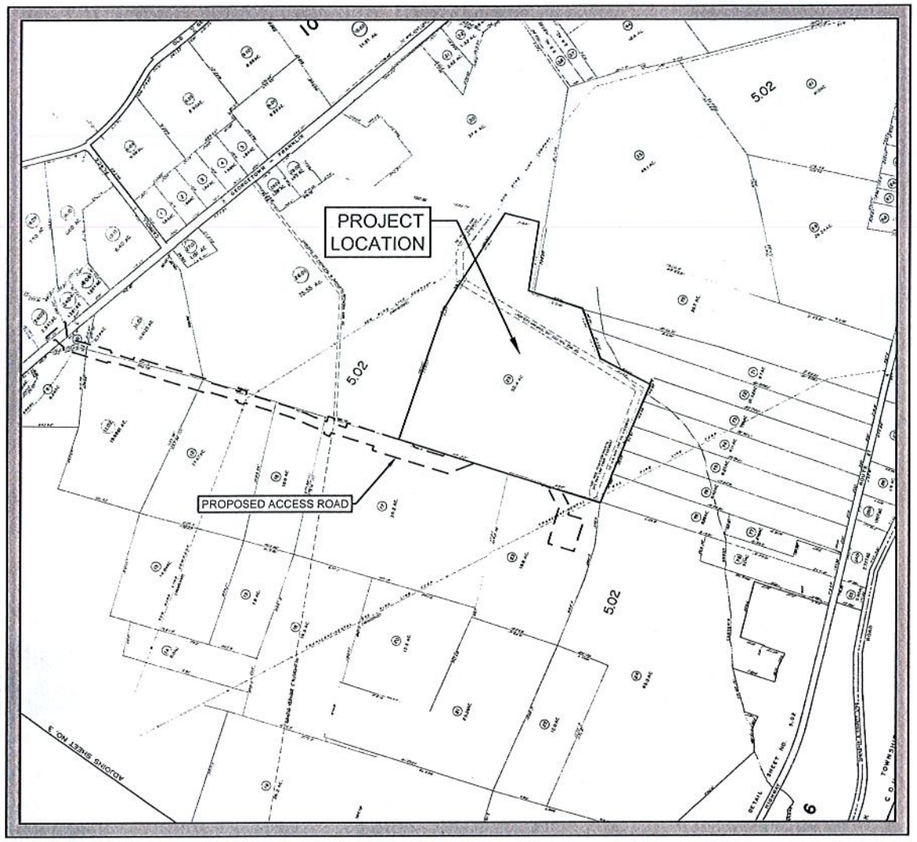
NJDEP LAND USE PERMIT PLANS

FOR THE

NORTHEAST SUPPLY ENHANCEMENT PROJECT

COMPRESSOR STATION 206

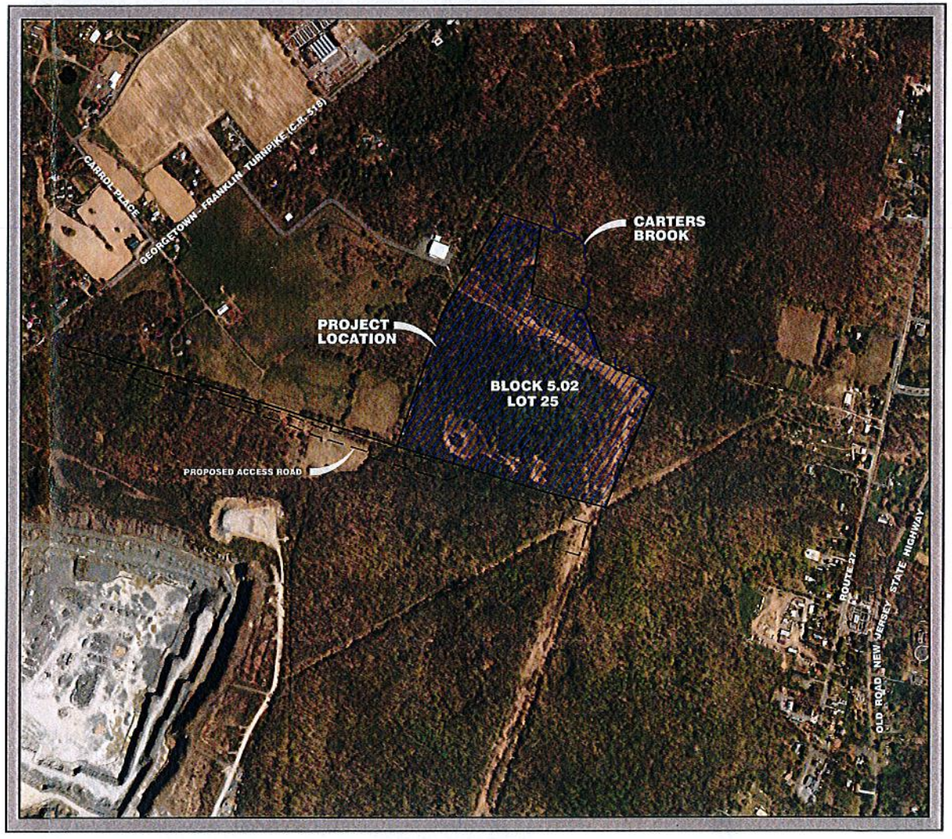
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC



N

KEY MAP

SOURCE: TAX MAP, FRANKLIN TOWNSHIP,
SOMERSET COUNTY, NEW JERSEY
SCALE: 1" = 500'



N

AERIAL KEY MAP

SOURCE: AERIAL MAPS, 2015
SCALE: 1" = 500'

DRAWING LIST			
DWG. NO.	DWG. TITLE	ISSUED	LAST REVISED
1	COVER SHEET	6/8/2018	6/7/2019
2	OVERALL SITE PLAN AND GENERAL NOTES	6/8/2018	6/7/2019
3	WETLAND PERMIT PLAN	6/8/2018	6/7/2019
4	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	6/8/2018	6/7/2019
5	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	6/8/2018	6/7/2019
6	RIPARIAN ZONE PERMIT PLAN	6/8/2018	6/7/2019
7	ACCESS ROADWAY PROFILE	6/8/2018	6/7/2019
8	CONSTRUCTION DETAILS	6/8/2018	6/7/2019
9	CONSTRUCTION DETAILS	6/8/2018	6/7/2019

FRESHWATER WETLANDS AND FLOOD HAZARD AREA PLANS

REV./ ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NJDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

06/07/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS MUST BE VERIFIED 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.

ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.

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.

THE COPYING AND/OR MODIFICATION OF THIS DOCUMENT OR ANY PORTION THEREOF WITHOUT THE WRITTEN PERMISSION OF PAULUS, SOKOLOWSKI AND SARTOR, LLC IS PROHIBITED.

UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR APPURTENANCES DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DRAWINGS.

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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206

BLOCK 5.02, LOT 25
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

COVER SHEET

PROJECT NO.: 05731.0003 | DRAWN BY: JPS
SCALE: AS SHOWN | CHECKED BY: WS
DATE: 06-08-2018 | SHEET 1 OF 9
SHEET NO. 1

NOTES ON USE OF PLANS:

1. 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.
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.
3. ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.
4. 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.
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.
6. INFORMATION FOR DESIGN LAYOUT IS CONTAINED SOLELY IN THE WRITTEN DIMENSIONS, BEARINGS, AND ANGLES CONTAINED ON THE DRAWINGS.
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.
8. THE GRAPHICAL INFORMATION CONTAINED IN ELECTRONIC FILES IS INTENDED AS DRAWING DATA ONLY. IT IS NOT INTENDED TO SERVE AS SURVEY LAYOUT DATA.
9. ALL PROPOSED FITTING ANGLES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CUTTING.

GENERAL NOTES:

1. AS INDICATED IN THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES," SUFFICIENT CONSTRUCTION WARNING 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.
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.
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.
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.
5. UNLESS SPECIFICALLY SHOWN HEREIN, THE DESIGN ENGINEER HAS NOT CONDUCTED AN INVESTIGATION OR 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.
6. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE IN PLACE PRIOR TO ANY SITE DISTURBANCE.
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.
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.

OWNER / APPLICANT

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

FLOOD HAZARD AREA AND FRESHWATER WETLANDS NOTES:

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

   A. FRESHWATER WETLAND INDIVIDUAL PERMIT – N.J.A.C. 7:7A–7.2

   B. FLOOD HAZARD AREA INDIVIDUAL PERMIT REGULATED ACTIVITIES
   - N.J.A.C. 7:13–11.1 REGULATED ACTIVITY IN CHANNEL
   - N.J.A.C. 7:13–11.2 REGULATED ACTIVITY IN RIPARIAN ZONE
   - N.J.A.C. 7:13–11.6 REGULATED ACTIVITY IN OR AFFECTING A PRESENT OR DOCUMENTED HABITAT FOR THREATENED OR ENDANGERED SPECIES
   - N.J.A.C. 7:13–12.1 REGULATED ACTIVITY ALL REQUIREMENTS
   - N.J.A.C. 7:13–12.2 REGULATED ACTIVITY FOR STORMWATER MANAGEMENT
   - N.J.A.C. 7:13–12.3 REGULATED ACTIVITY FOR EXCAVATION, FILL AND GRADING ACTIVITIES
   - N.J.A.C. 7:13–12.6 REGULATED ACTIVITY FOR ROADWAY
   - N.J.A.C. 7:13–12.7 REGULATED ACTIVITY FOR CULVERT
   - N.J.A.C. 7:13–12.8 REGULATED ACTIVITY FOR UTILITY LINE

2. THE APPLICANT/OWNER SHALL SECURE ALL PROPOSED PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS OF ACCESS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE OWNER/CONTRACTOR SHALL ALSO SECURE NECESSARY EASEMENTS OR RIGHTS OF ACCESS BEYOND THE LIMITS SHOWN, AS DEEMED NECESSARY.
3. THE CONTRACTOR IS ADVISED THAT STAGING, STORING AND STOCKPILING OF MATERIALS AND EQUIPMENT SHALL BE ACCOMPLISHED OUTSIDE NJDEP REGULATED FRESHWATER WETLANDS, WETLANDS BUFFERS OR FLOOD HAZARD AREA RIPARIAN ZONES TO THE MAXIMUM EXTENT PRACTICABLE AND IN ACCORDANCE WITH NJDEP LINEAR CONSTRUCTION GUIDELINES.
4. THE CONTRACTOR SHALL EXCAVATE, STORE AND REPLACE TOPSOIL WITHIN TRENCH LIMITS. PROPOSED FINISHED GRADE SHALL MATCH EXISTING GRADE. ALL EXCESS MATERIAL SHALL BE DISPOSED OF LAWFULLY.
5. ANY PROPOSED TRENCH IN A STREAM CHANNEL, OPEN WATER OR RIPARIAN ZONE IS TO BE A MAXIMUM OF 20 FEET WIDE, UNLESS CONSTRUCTION STANDARDS DICTATE ADDITIONAL WIDTH.
6. A MINIMUM COVER OF FOUR (4) FEET SHALL BE PROVIDED FROM THE CHANNEL INVERT. THE ELEVATION OF THE TRANSMISSION GAS MAIN SHALL REMAIN HORIZONTAL UNTIL TEN (10) FEET BEYOND THE TOP OF BANK, OR TWICE THE HEIGHT OF THE STREAM BANK, WHICHEVER IS GREATER. THE INCLINED OF THE MAIN SHALL BE NO GREATER THAT 1:2 ENTERING AND EXITING THE CHANNEL BANK AREA.
7. ALL OR A PORTION OF THE SITE LIES WITHIN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATIONS AT (609) 292–0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.
8. NEW JERSEY STATE OPEN WATERS AND WETLANDS AND WATERS OF THE U.S. DELINEATION DATA WERE COLLECTED BY ECOLSCIENCES, ECOLOGY & ENVIRONMENTAL, INC., AND AMY S. GREENE ENVIRONMENTAL CONSULTANTS, INC. IN 2016–2018 AND BY TRANSCONTINENTAL GAS PIPELINE COMPANY, LLC AND ECOLOGY & ENVIRONMENT, INC. IN 2019. A MAPPING GRADE TRIMBLE GPS WAS USED TO COLLECT FRESHWATER WETLANDS IN THE FIELD. IN NEW JERSEY MAPPING GRADE LOCATIONS AND DATA WERE RECORDED BY CIVIL SURVEY OF WILLIAMS STRATEGIC SOURCING COMPANY, LLC TO MEET PLS CERTIFICATION REQUIREMENTS REQUIRED BY NJDEP LETTER OF INTERPRETATION (LOI).
9. WITHIN THE SURVEY CORRIDOR ECOLOGY AND ENVIRONMENT, INC. AND AMY GREENE ENVIRONMENTAL ESTABLISHED THE RIPARIAN ZONES UTILIZING WATERS OF THE UNITED STATES FIELD DATA. OUTSIDE SURVEY CORRIDOR FEATURES ECOLOGY AND ENVIRONMENT, INC. USED REMOTE SENSING FOR FEATURES WHO'S TRADITIONAL AREAS ENCROACH INTO THE SURVEY CORRIDOR FROM OUTSIDE.
10. PROPOSED PROJECT IS SUBJECT TO SOMERSET–UNION SOIL CONSERVATION DISTRICT PLAN CERTIFICATION APPROVAL.
11. 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.
12. NON–PAVED AREAS IN FRESHWATER WETLANDS AND/OR RIPARIAN ZONES TO RECEIVE 18 INCHES OF TOPSOIL/INSITU MATERIAL.
13. CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS SUBSTANCES (IF ENCOUNTERED) OFF–SITE. NO PLACEMENT, STORAGE OR PROCESSING OF HAZARDOUS SUBSTANCES IN REGULATED AREAS PERMITTED.
14. THE NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD ASSOCIATED WITH CARTER'S BROOK WERE DETERMINED USING NJDEP METHOD 5 (FLOOD HAZARD AREA DETERMINED BY APPROXIMATION) ACCORDING TO N.J.A.C. 7:13–3.5.
15. STAGING, STORING AND STOCKPILING OF MATERIALS AND EQUIPMENT SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, BE ACCOMPLISHED OUTSIDE THE RIPARIAN ZONE. WHERE IT IS NECESSARY TO CONDUCT THESE ACTIVITIES IN THE RIPARIAN ZONE, THESE ACTIVITIES, AS WELL AS ACCESS TO THE UTILITY LINE DURING CONSTRUCTION, SHALL, TO THE MAXIMUM EXTENT PRACTICABLE, BE UNDERTAKEN IN ACTIVELY DISTURBED AREAS.

REFERENCE NOTES

1. EXISTING CONDITIONS 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.
5. TOPOGRAPHIC CONTOURS BASED UPON FIELD SURVEY PERFORMED BY D.W. SMITH ASSOCIATES, LLC OCTOBER 2016–JUNE 2017, PROVIDED BY TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
6. PROPOSED SITE IMPROVEMENTS AND PROPOSED LIMITS OF DISTURBANCE TAKEN FROM PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC POST CONSTRUCTION STORMWATER MANAGEMENT PLAN", LAST REVISED JUNE 7, 2019, PROPOSED 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 572,290', EAST 461,603'
   #2 NORTH 571,931', EAST 462,514'
   #3 NORTH 571,628', EAST 463,461'
   #4 NORTH 571,304', EAST 464,405'
   #5 NORTH 571,911', EAST 465,195'

FLOOD HAZARD AREA METES AND BOUNDS

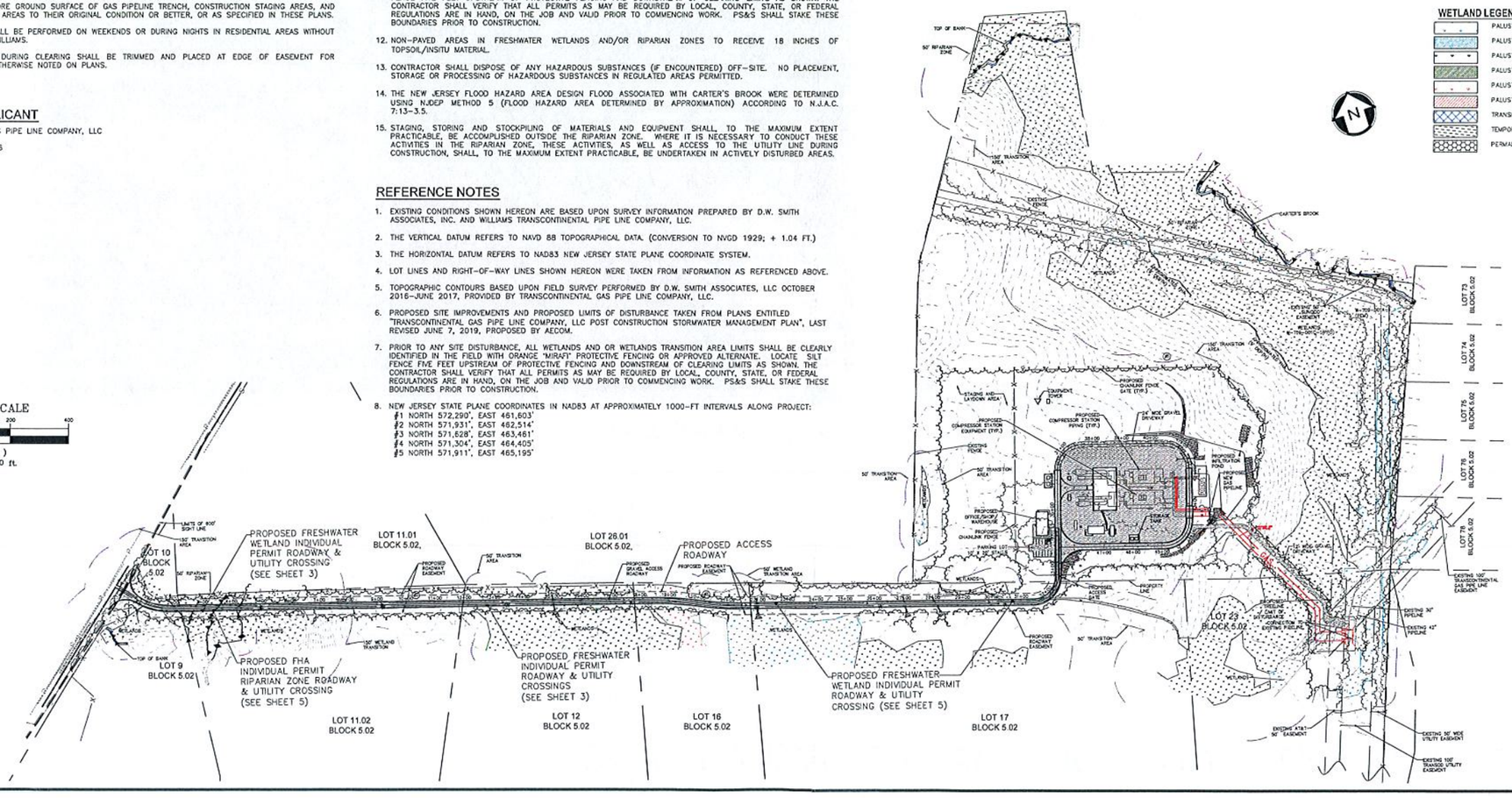
Line #	Length	Direction	START	END
L1	16.390	S1° 12' 48.59"E	N=572590.5184 E=465198.0583	N=572574.1324 E=465198.4453
L2	33.609	S8° 58' 56.56"E	N=572574.1324 E=465198.4453	N=572540.9358 E=465203.6937
L3	88.932	S2° 03' 55.39"W	N=572540.9358 E=465203.6937	N=572452.0613 E=465197.3448
L4	25.330	S7° 07' 37.92"W	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' 08.17"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	S8° 44' 53.41"W	N=572320.3159 E=465253.5723	N=572264.5371 E=465248.9723
L10	35.727	S25° 39' 40.23"E	N=572264.5371 E=465246.9723	N=572233.3335 E=465282.4440
L11	35.368	S0° 25' 28.99"W	N=572233.3335 E=465282.4440	N=572198.9466 E=465283.1818
L12	42.555	S32° 13' 29.32"E	N=572198.9466 E=465282.1818	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=572059.9587 E=465345.8999
L16	20.786	S37° 39' 49.96"E	N=572059.9587 E=465345.8999	N=572043.5445 E=465358.6004
L17	82.215	S50° 12' 46.54"E	N=572043.5445 E=465358.6004	N=571990.9323 E=465431.7765
L18	25.279	S22° 47' 49.51"E	N=571990.9323 E=465431.7765	N=571967.6282 E=465431.5712
L19	25.259	S43° 14' 15.91"E	N=571967.6282 E=465431.5712	N=571949.3265 E=465448.8743
L20	23.886	S79° 07' 11.24"E	N=571949.3265 E=465448.8743	N=571944.7179 E=465472.3312

FLOOD HAZARD AREA METES AND BOUNDS

Line #	Length	Direction	START	END
L21	25.796	S63° 22' 32.89"E	N=571944.7179 E=465472.3312	N=571933.1578 E=465495.2932
L22	35.893	S28° 15' 16.81"E	N=571933.1578 E=465495.3922	N=571901.5413 E=465512.3836
L23	35.710	S5° 12' 36.14"E	N=571901.5413 E=465512.3836	N=571865.9793 E=465515.8263
L24	32.903	S32° 01' 14.58"E	N=571865.9793 E=465515.8263	N=571836.6662 E=465530.5744
L25	33.298	S50° 27' 10.16"E	N=571836.6662 E=465530.5744	N=571815.4656 E=465556.2508
L26	22.493	S31° 48' 26.92"E	N=571815.4656 E=465556.2508	N=571796.3511 E=465568.1064
L27	43.134	S12° 25' 48.69"E	N=571796.3511 E=465568.1064	N=571754.2264 E=465577.3909
L28	14.152	S4° 55' 02.83"E	N=571754.2264 E=465577.3909	N=571740.1285 E=465578.6041
L29	12.567	S54° 03' 12.46"E	N=571740.1285 E=465578.6041	N=571732.7395 E=465588.7940
L30	20.359	S67° 59' 34.20"E	N=571732.7395 E=465588.7940	N=571725.1104 E=465607.6700
L31	14.865	S41° 53' 51.82"E	N=571725.1104 E=465607.6700	N=571714.0456 E=465617.5972
L32	35.715	S8° 38' 51.01"E	N=571714.0456 E=465617.5972	N=571678.7369 E=465622.9671
L33	36.061	S21° 59' 02.48"E	N=571678.7369 E=465622.9671	N=571643.4430 E=465639.2152
L34	30.232	S35° 06' 50.73"E	N=571643.4430 E=465639.2152	N=571618.7127 E=465654.5051
L35	1.443	S36° 14' 12.41"E	N=571618.7127 E=465654.5051	N=571617.5491 E=465655.4579
L36	8.205	S39° 30' 56.61"W	N=571617.5491 E=465655.4579	N=571611.2197 E=465650.2374
L37	44.559	S27° 49' 37.01"W	N=571611.2197 E=465650.2374	N=571571.8138 E=465629.4373
L38	53.036	S12° 40' 50.04"W	N=571571.8138 E=465629.4373	N=571520.0714 E=465617.7951
L39	14.238	S11° 25' 08.44"E	N=571520.0714 E=465617.7951	N=571506.1148 E=465620.6141
L40	19.244	S13° 14' 07.28"E	N=571506.1148 E=465620.6141	N=571487.3819 E=465625.0200

FLOOD HAZARD AREA METES AND BOUNDS

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=465616.0278
L43	74.181	S10° 41' 26.54"E	N=571367.4408 E=465616.0278	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
L45	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=465764.2178
L50	13.312	N13° 16' 42.62"E	N=571238.3757 E=465764.2178	N=571251.3320 E=465767.2752
L51	17.292	N68° 04' 24.83"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	22.719	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	35.808	N47° 11' 33.58"E	N=571321.6736 E=465821.8179	N=571346.0053 E=465848.0869



GRAPHIC SCALE
200 0 100 200 400
(IN FEET)
1 inch = 200 ft.

RIPARIAN ZONE LEGEND

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

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB–SHRUB (PSS)
- PALUSTRINE SCRUB–SHRUB DISTURBED
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE

REV. / ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NJDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- EXISTING STORM SEWER
- EXISTING ELECTRIC SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED SUCTION AND DISCHARGE PIPING
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- TOP OF BANK
- RIPARIAN BUFFER
- APPROXIMATE NJFHADF
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- STATE PLANE COORDINATES
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

06/07/19
SIGNATURE DATE

PAULUS, SOKOLOVSKI AND SARTOR, LLC.
PS&S
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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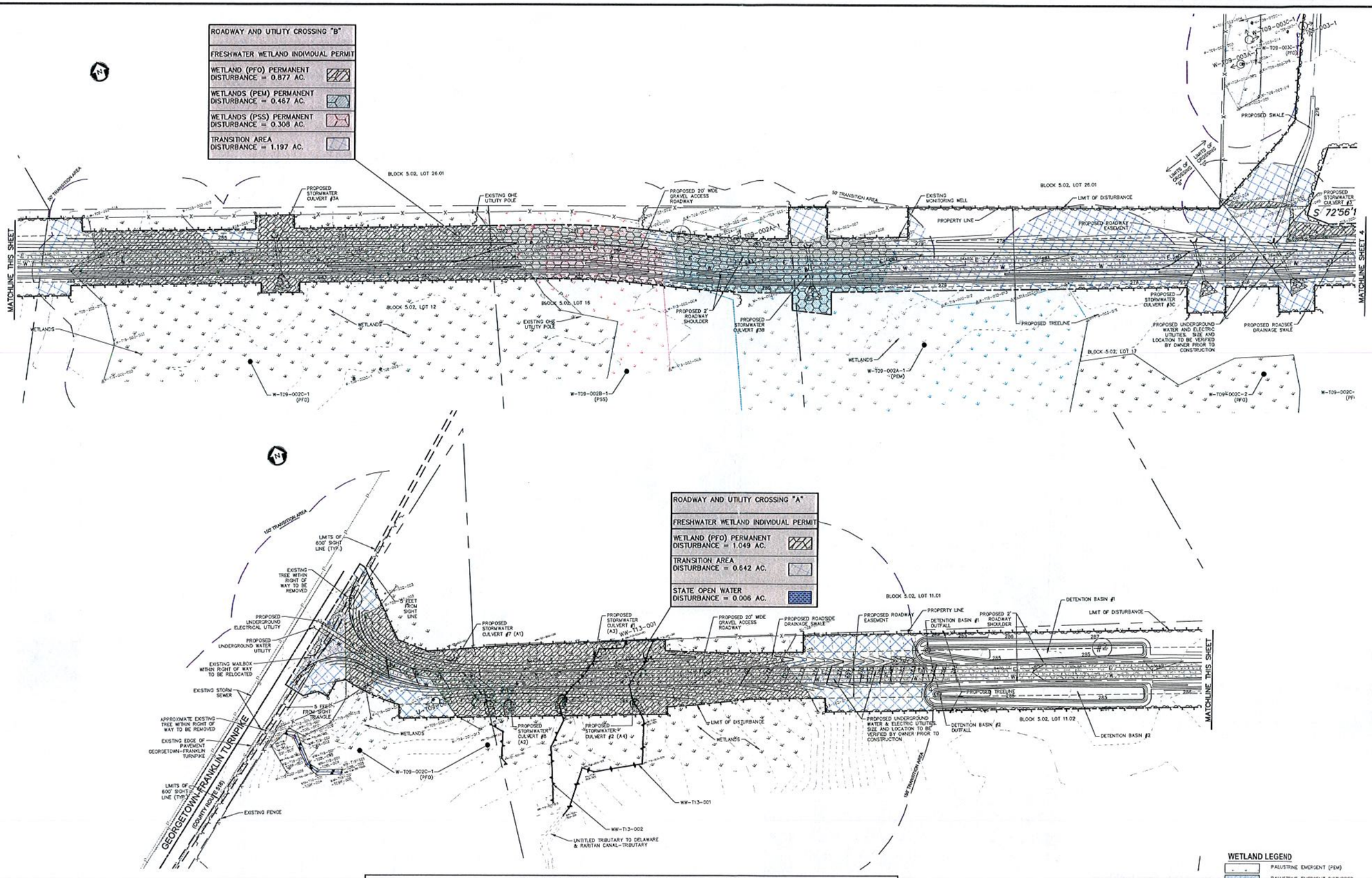
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206
BLOCK 5.02, LOT 26
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE
OVERALL SITE PLAN AND GENERAL NOTES

PROJECT NO.:	05731.0003	DRAWN BY:	JPS
SCALE:	1 = 200	CHECKED BY:	WS
DATE:	06-08-2018	SHEET	2 OF 9
SHEET NO.	2		



WETLAND UTILITY CROSSING TABULATION

STATION	WETLAND ID	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS		PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS		PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS		TRANSITION AREA		STATE OPEN WATER
		TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	PERMANENT IMPACT
ROADWAY AND UTILITY CROSSING "A"	W-T09-002C-1				1.049				0.642	
	STATE OPEN WATER									0.006
ROADWAY AND UTILITY CROSSING "B"	W-T09-002C-1				0.877				1.197	
	W-T09-002B-1						0.308			
	W-T09-002A-1		0.467							
ROADWAY CROSSING "C"	W-T09-002C-1				0.158				0.938	
	W-T09-002C-2									
	W-T09-002C-3									
UTILITY CROSSING "D"	W-T09-001C-1				0.538			0.449	0.562	
	W-T09-001A-1	0.149	0.314							
TOTAL		0.149	0.781	0.000	2.622	0.000	0.308	0.449	3.339	0.006

NOTES:
1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN", LAST REVISED JUNE 7, 2019, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
2. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN", LAST REVISED AUGUST 24, 2018, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

REV./ ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NJDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- EXISTING STORM SEWER
- EXISTING ELECTRIC SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED SUCTION AND DISCHARGE PIPING
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- TOP OF BANK
- RIPARIAN BUFFER
- APPROXIMATE NJFHADF
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

06/07/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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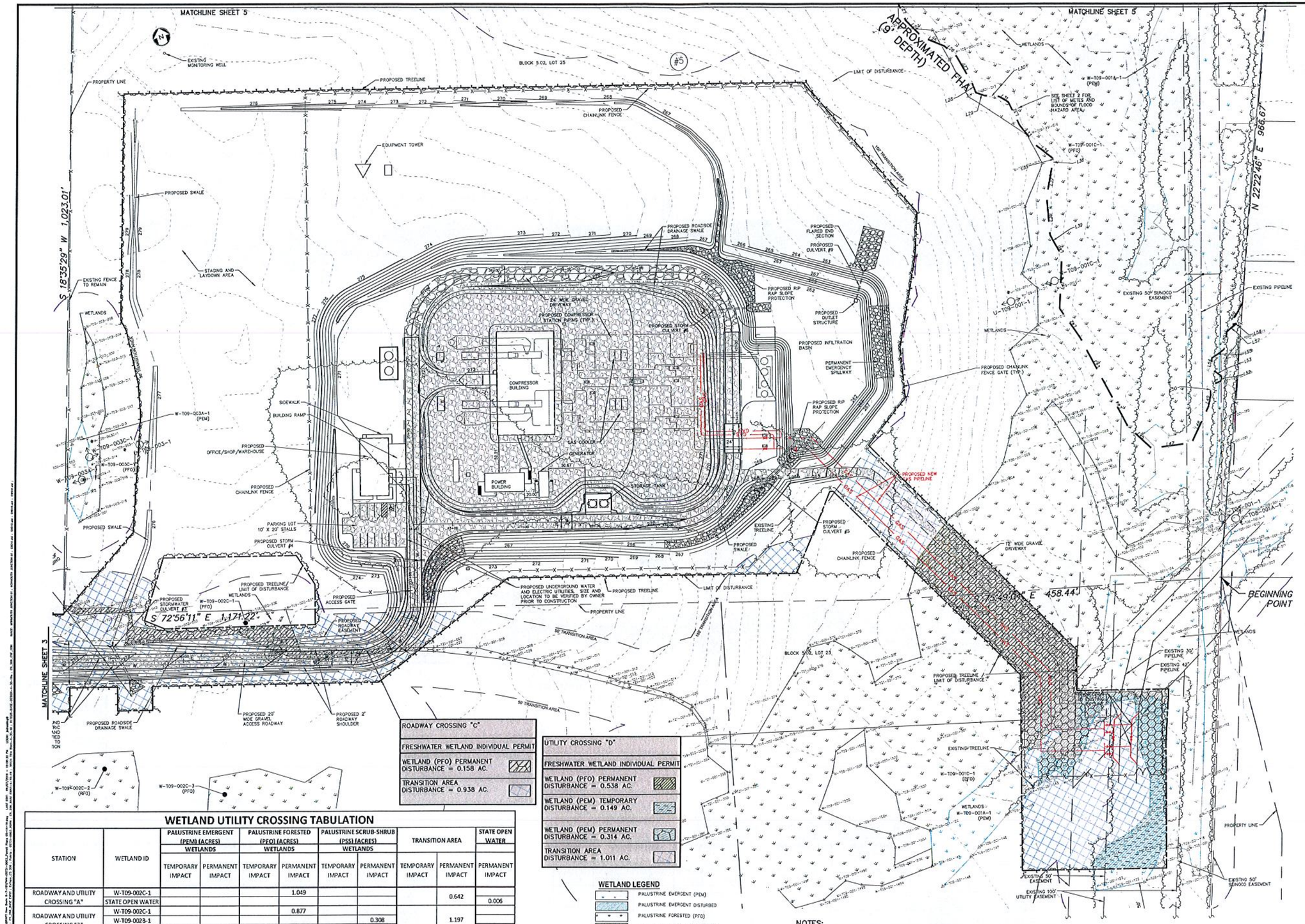
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206
BLOCK 5.02, LOT 25
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN

PROJECT NO.: 05731.0003	DRAWN BY: JPS
SCALE: 1 = 60'	CHECKED BY: WS
DATE: 06-08-2018	SHEET 3 OF 9
SHEET NO. 3	



ROADWAY CROSSING "C"
FRESHWATER WETLAND INDIVIDUAL PERMIT
WETLAND (PFO) PERMANENT DISTURBANCE = 0.158 AC.
TRANSITION AREA DISTURBANCE = 0.938 AC.

UTILITY CROSSING "D"
FRESHWATER WETLAND INDIVIDUAL PERMIT
WETLAND (PFO) PERMANENT DISTURBANCE = 0.538 AC.
WETLAND (PEM) TEMPORARY DISTURBANCE = 0.149 AC.
WETLAND (PEM) PERMANENT DISTURBANCE = 0.314 AC.
TRANSITION AREA DISTURBANCE = 1.011 AC.

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE

WETLAND UTILITY CROSSING TABULATION

STATION	WETLAND ID	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS		PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS		PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS		TRANSITION AREA		STATE OPEN WATER
		TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	PERMANENT IMPACT
ROADWAY AND UTILITY CROSSING "A"	W-T09-002C-1				1.049				0.642	
	STATE OPEN WATER									0.006
ROADWAY AND UTILITY CROSSING "B"	W-T09-002C-1				0.877				1.197	
	W-T09-002B-1						0.308			
	W-T09-002A-1		0.467							
ROADWAY CROSSING "C"	W-T09-002C-1				0.158				0.938	
	W-T09-002C-2									
	W-T09-002C-3									
UTILITY CROSSING "D"	W-T09-001C-1				0.538				0.562	
	W-T09-001A-1	0.149	0.314					0.449		
TOTAL		0.149	0.781	0.000	2.622	0.000	0.308	0.449	3.339	0.006

NOTES:
1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN", LAST REVISED JUNE 7, 2019, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
2. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN", LAST REVISED AUGUST 24, 2018, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

REV./ ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
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3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- EXISTING STORM SEWER
- EXISTING ELECTRIC SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED SUCTION AND DISCHARGE PIPING
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- TOP OF BANK
- RIPARIAN BUFFER
- APPROXIMATE NJFHADF
- PHOTO LOCATION (SEE REPORT)
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PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

06/07/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
PS&S
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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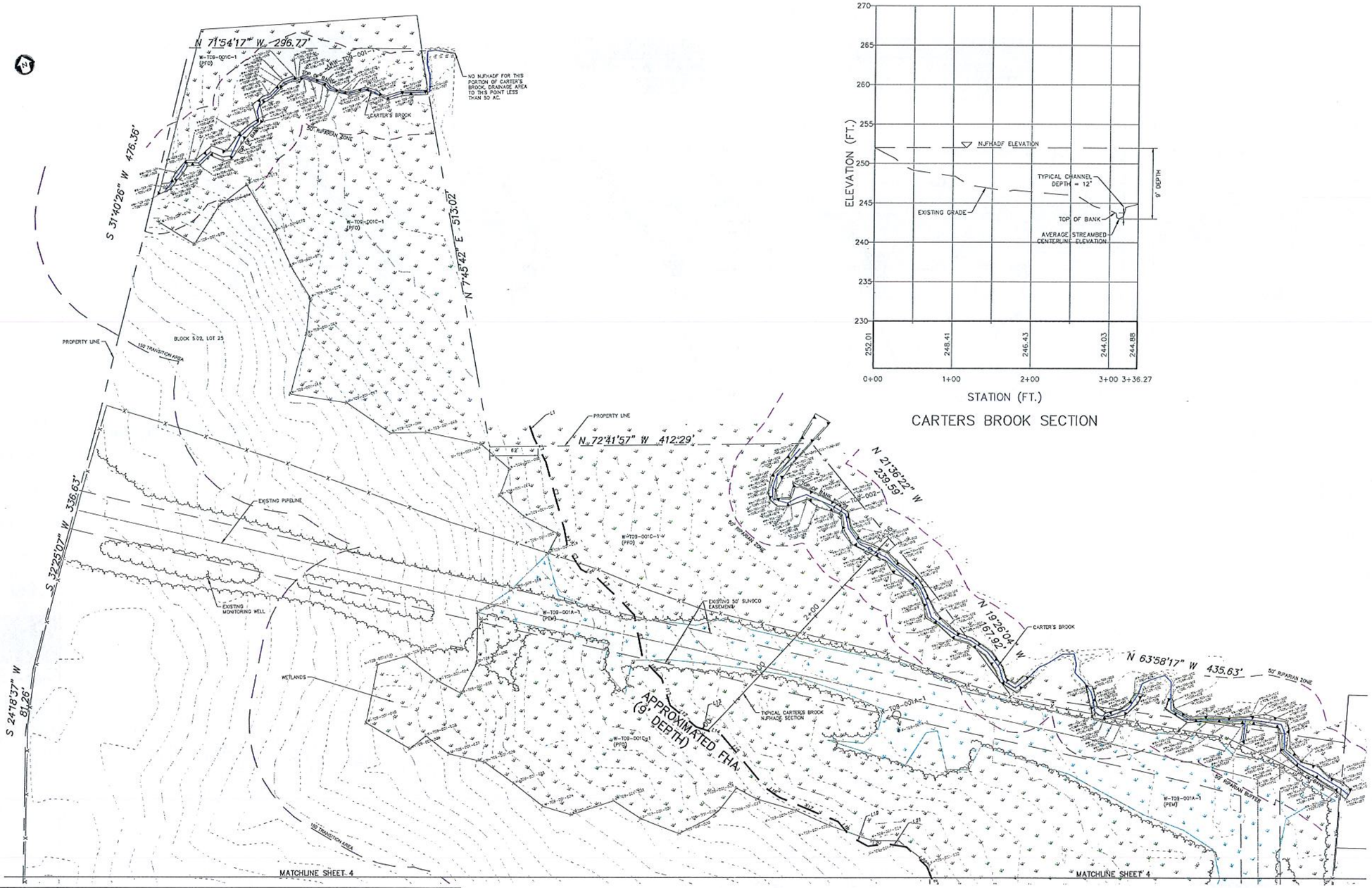
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206
BLOCK 5.02, LOT 25
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE
FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN

PROJECT NO.: 05731.0003		DRAWN BY:	JPS
SCALE:	1 = 60'	CHECKED BY:	WS
DATE:	06-08-2018	SHEET	4 OF 9
SHEET NO.	4		



CARTERS BROOK SECTION

WETLAND UTILITY CROSSING TABULATION

STATION	WETLAND ID	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS		PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS		PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS		TRANSITION AREA		STATE OPEN WATER
		TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	PERMANENT IMPACT
ROADWAY AND UTILITY CROSSING "A"	W-T09-002C-1				1.049				0.642	
	STATE OPEN WATER									0.006
ROADWAY AND UTILITY CROSSING "B"	W-T09-002C-1				0.877				1.197	
	W-T09-002B-1						0.308			
	W-T09-002A-1		0.457							
ROADWAY CROSSING "C"	W-T09-002C-1				0.158				0.938	
	W-T09-002C-2									
	W-T09-002C-3									
UTILITY CROSSING "D"	W-T09-001C-1				0.538				0.562	
	W-T09-001A-1	0.149	0.314					0.449		
TOTAL		0.149	0.781	0.000	2.622	0.000	0.308	0.449	3.339	0.006

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE

NOTES:

1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN", LAST REVISED JUNE 7, 2019, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
2. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN", DATED LAST REVISED AUGUST 24, 2018, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.
3. NO WETLAND DISTURBANCE OR FLOOD HAZARD AREA IMPACT ON THIS SHEET.

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)

1 inch = 60 ft.

REV./ ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NJDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
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LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
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- EXISTING ELECTRIC SEWER
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- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- TOP OF BANK
- RIPARIAN BUFFER
- APPROXIMATE NJPHADF
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- STATE PLANE COORDINATES
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

06/07/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

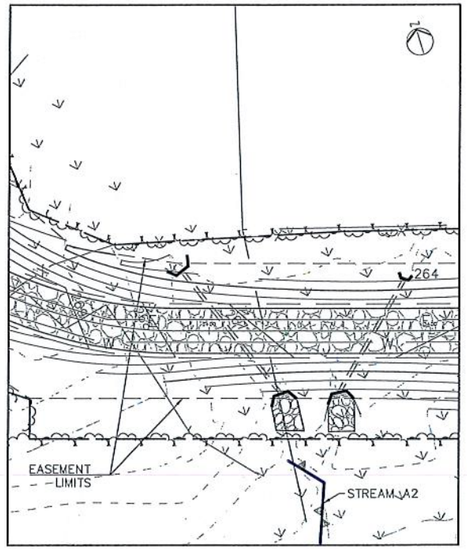
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206

BLOCK 502, LOT 25
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

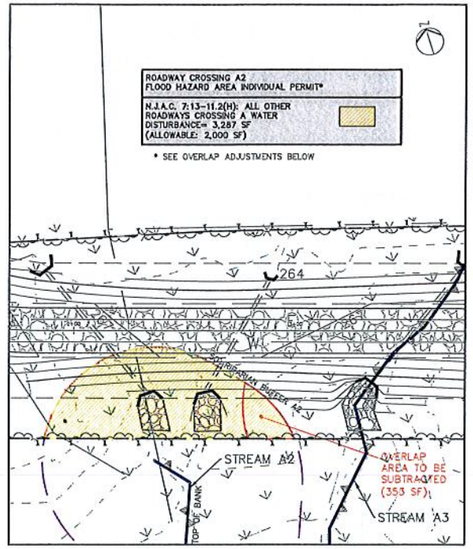
SHEET TITLE

FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN

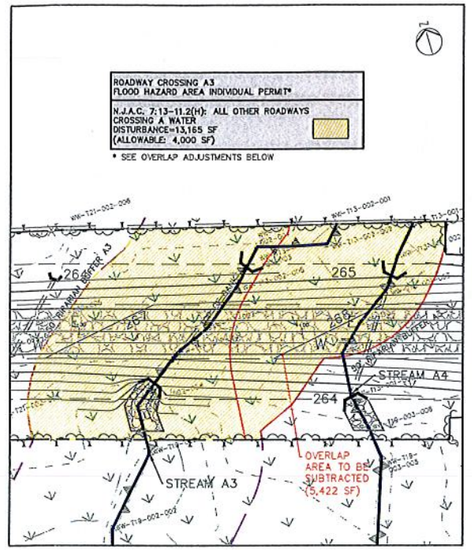
PROJECT NO.: 05731.0003	DRAWN BY: JPS
SCALE: 1 = 60'	CHECKED BY: WS
DATE: 06-08-2018	SHEET 5 OF 9
SHEET NO.	5



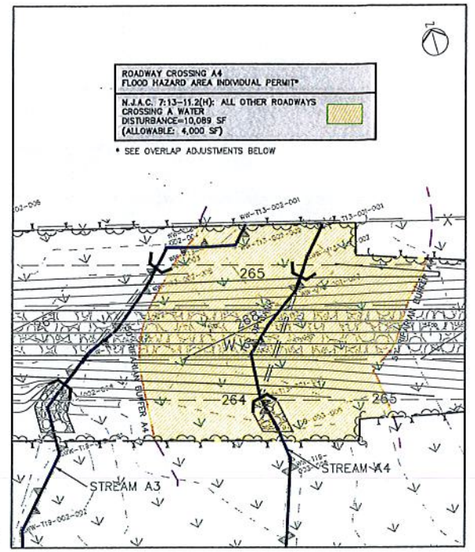
CROSSING A1 DETAIL



CROSSING A2 DETAIL



CROSSING A3 DETAIL

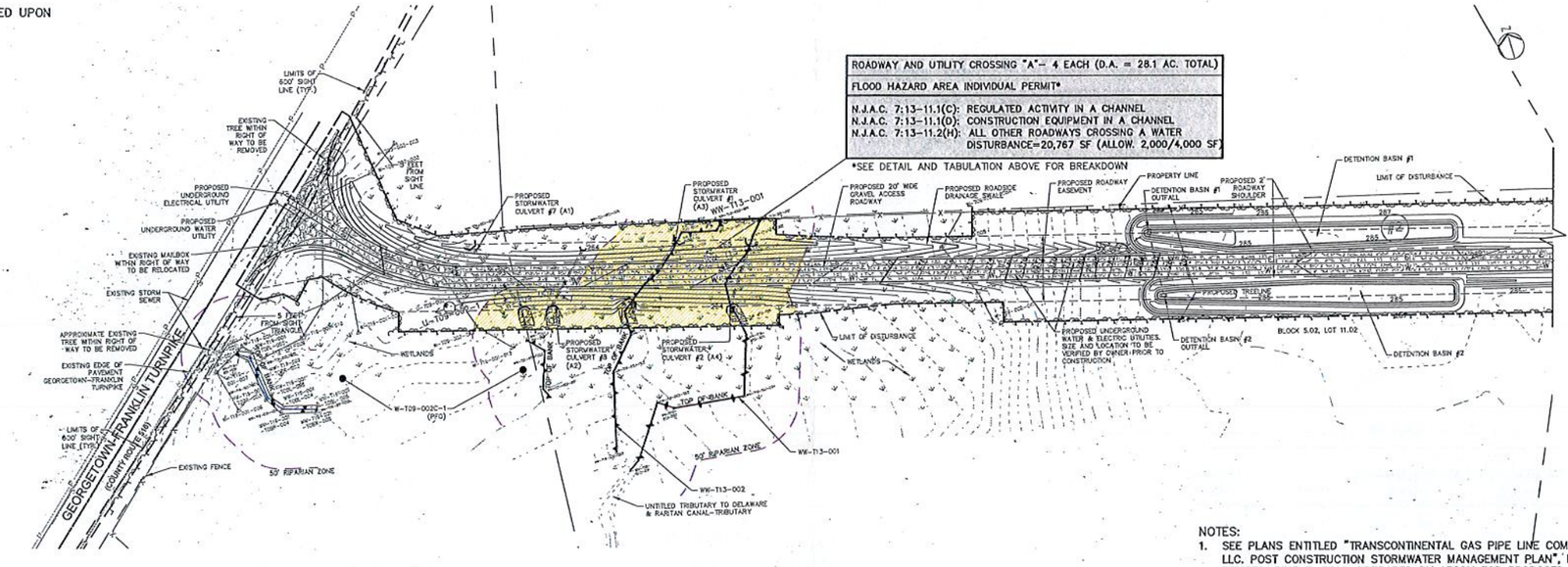


CROSSING A4 DETAIL

AREA OF DISTURBANCE SUMMARY TABLE / OVERLAP ADJUSTMENTS				
	ROADWAY CROSSING A WATER (SF)			
CROSSING LABLE	TOTAL DISTURBANCE	ALLOWABLE DISTURBANCE	EXCEEDED LIMITS	OVERLAP AREA
A1	–	–	–	–
A2	3,287	2,000	1,287	– 353
A3	13,165	4,000	9,165	–5,422
A4	10,089	4,000	6,089	
TOTAL	26,541	10,000	16,541	–5,775
TOTAL NET			10,766	

*NOTES:
1. TOTAL NET COMPENSATION=ROAD DISTURBANCE IN EXCEEDANCE OF ALLOWABLE LIMITS LESS OVERLAP AREA.
2. STREAM A1 ELIMINATED BASED UPON NJDEP WALK THROUGH.

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.



GRAPHIC SCALE
60 0 30 60 120
(IN FEET)
1 inch = 60 ft.

NOTES:
1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN", LAST REVISED JUNE 7, 2019, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
2. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN", LAST REVISED AUGUST 24, 2018, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.
3. SEE SHEET 4 FOR LOCATION OF APPROXIMATED FLOODPLAIN OF CARTER'S BROOK.

REV./ ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NJDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NJDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- EXISTING STORM SEWER
- EXISTING ELECTRIC SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED SUCTION AND DISCHARGE PIPING
- EXISTING SIGN
- EXISTING UTILITY POLE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
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N.J. LIC. NO. 37207 COA NO. 24GA28122400
SIGNATURE DATE

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PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700
06/07/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
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WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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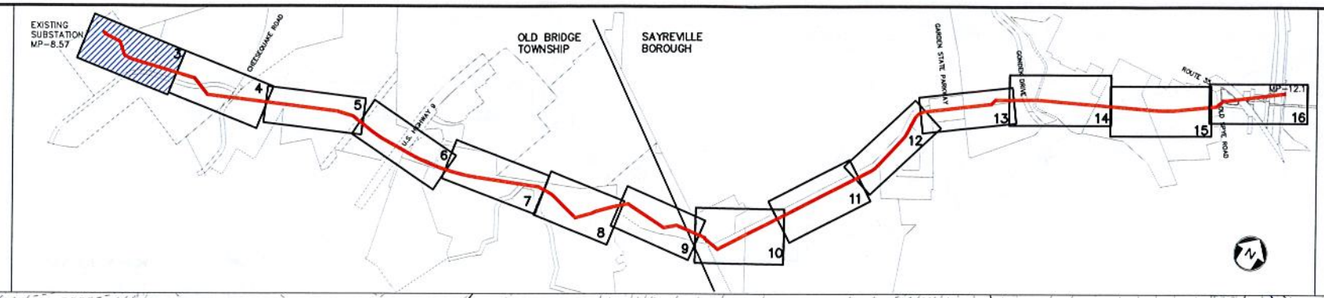
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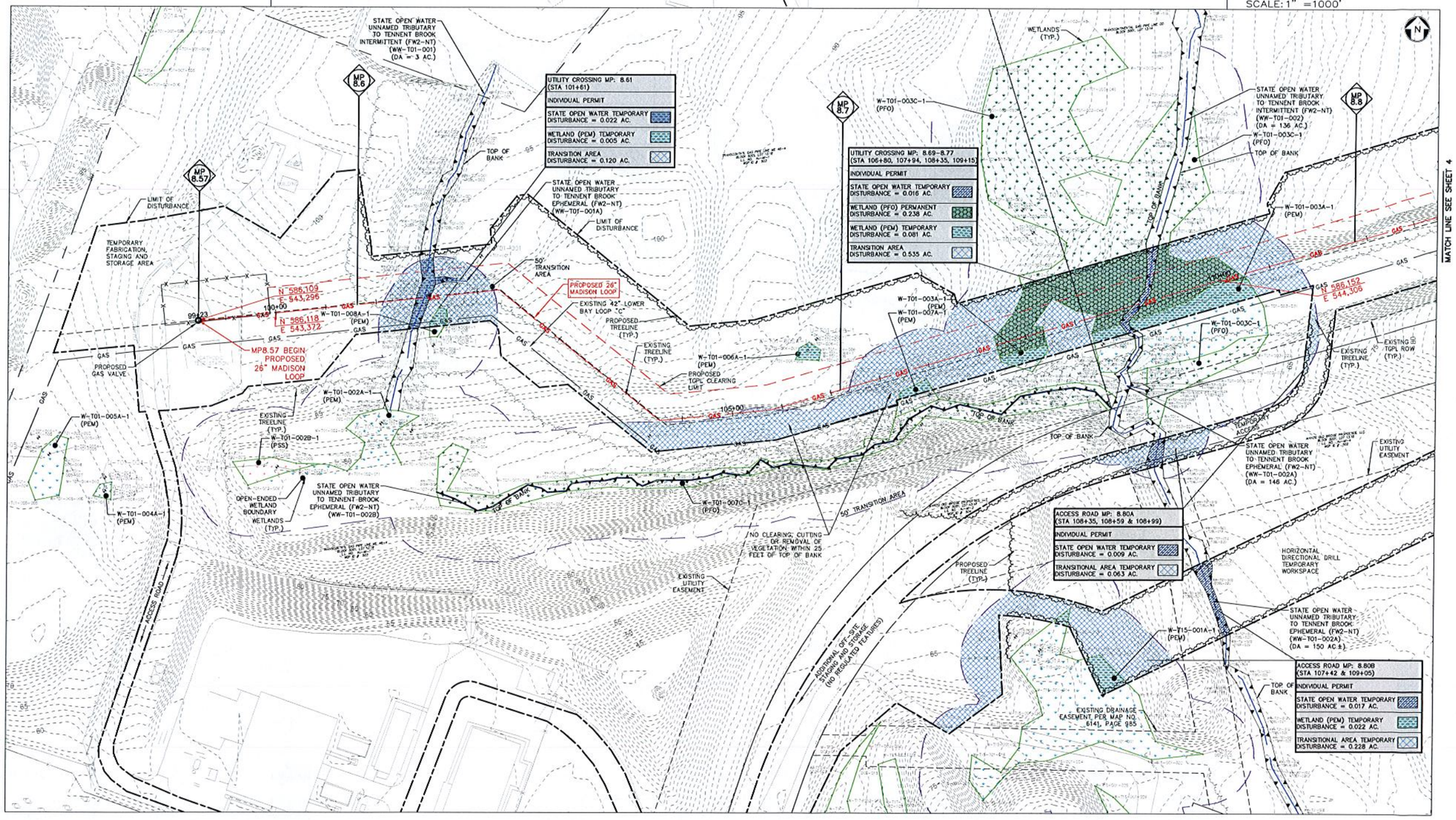
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206
BLOCK 5.02, LOT 25
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN

PROJECT NO.: 05731.0003	DRAWN BY: JPS
SCALE: 1 = 60'	CHECKED BY: WS
DATE: 06-08-2018	SHEET 6 OF 9
SHEET NO. 6	



KEY MAP
SCALE: 1" =1000'



WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

NOTES:

1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. SEE SHEET 4 FOR WETLAND UTILITY CROSSING TABULATION.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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PROFESSIONAL LAND SURVEYOR
N.J LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J LIC. NO. 41319 COA NO. 24GA28032700

SIGNATURE 04/24/19 DATE

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WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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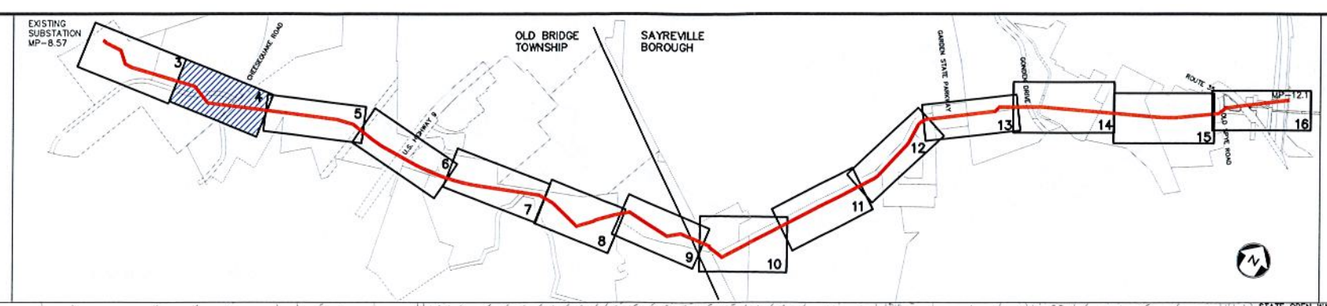
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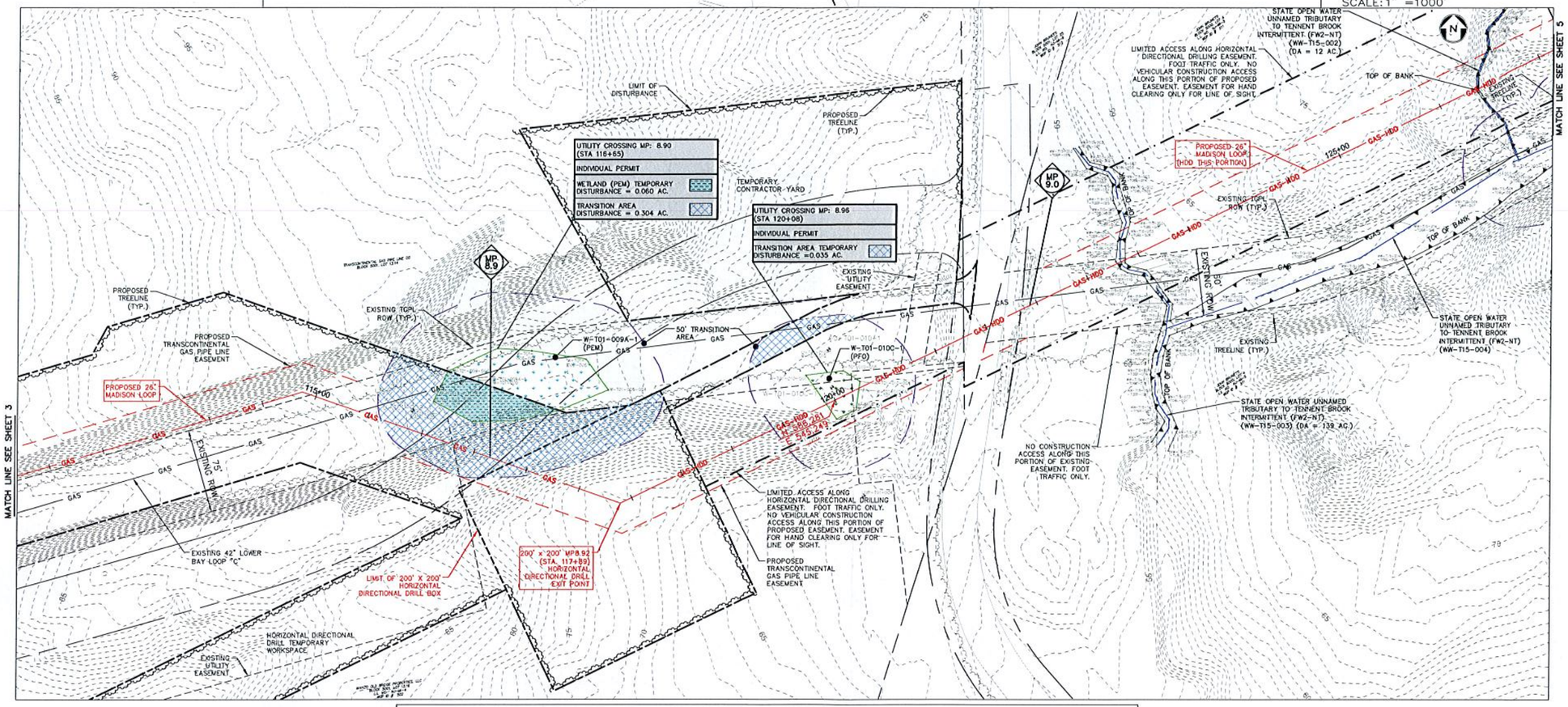
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 8.57 - MP 8.8

PROJECT NO.: 05731.0002		DRAWN BY:	JPS
SCALE:	1 = 50'	CHECKED BY:	WS
DATE:	06/08/18	SHEET	3 OF 20
SHEET NO.	3		



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-008A-1	8.88	101+61	0.305												0.052	0.068		
STATE OPEN WATER		101+61																0.022
W-T01-008A-1	8.89 - 8.77	105+89	0.007												0.231	0.304		
W-T01-007A-1		106+80	0.074															
W-T01-003A-1		107+94																
W-T01-003C-1		108+35					0.338											
STATE OPEN WATER		109+15																0.058
W-T01-007C-1	8.804	108+59														0.063		
W-T01-003C-1		108+35																
STATE OPEN WATER		108+99																0.009
W-T15-002A-1	8.808	109+42	0.022														0.228	
STATE OPEN WATER		109+05																0.017
W-T01-009A-1	8.90	110+65	0.060												0.118	0.179	0.306	
W-T01-010C-1	8.96	120+08														0.035		
W-T15-002A-1	9.20 - 9.32	118+68	0.012												0.141	0.183	0.142	
W-T15-003A-1		132+54	0.072															
W-T15-003C-1		134+00					0.045											
STATE OPEN WATER		134+29																0.033
W-T15-004C-1	10.05 - 10.19	178+17					0.030								1.093	0.136	0.549	
W-T01-014A-1		178+96	0.454															
W-T01-014C		181+88					0.034											
W-T01-014B-1		184+06							0.007									
STATE OPEN WATER		177+44																0.058
W-T01-010D-1	10.45	188+70														0.021	0.040	
W-T01-010A-1	10.69 - 10.74	213+85	0.544												0.263	0.001	0.016	
W-T01-010D-1		210+39																
W-T07-002A-1	10.87-10.94	224+34	0.001												0.079	0.013	0.168	
W-T07-001D-1		223+23																
W-T07-001C-1		220+70																
W-T07-003A-1	11.36 - 11.42	244+38	0.581												0.448	0.036	0.177	
W-T07-003B-1		248+38																
W-T07-004D-1	11.43 - 11.50	250+31										0.004				0.002	0.038	
W-T01-017A-1	11.77 - 11.84	268+16	0.014															
W-T01-017D-1		270+67													0.031	0.101	0.228	
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.443	3.143	1.592	0.157

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
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- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
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- EXISTING TREE
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- MEAN HIGH WATER LINE 500' BUFFER
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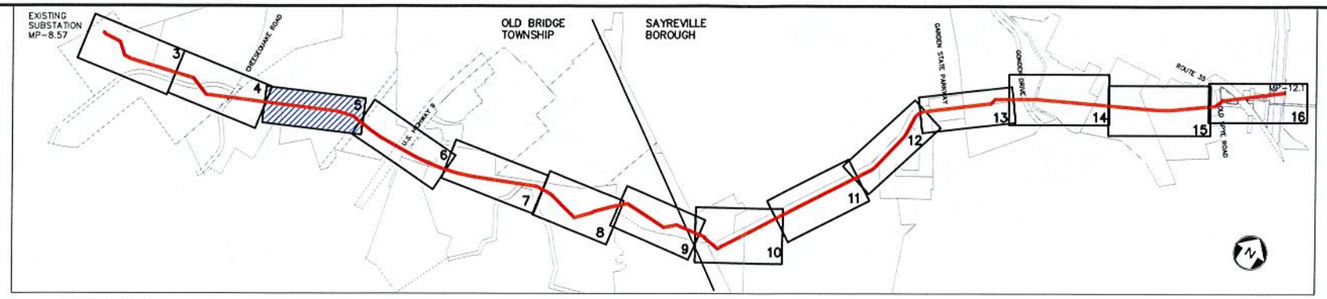
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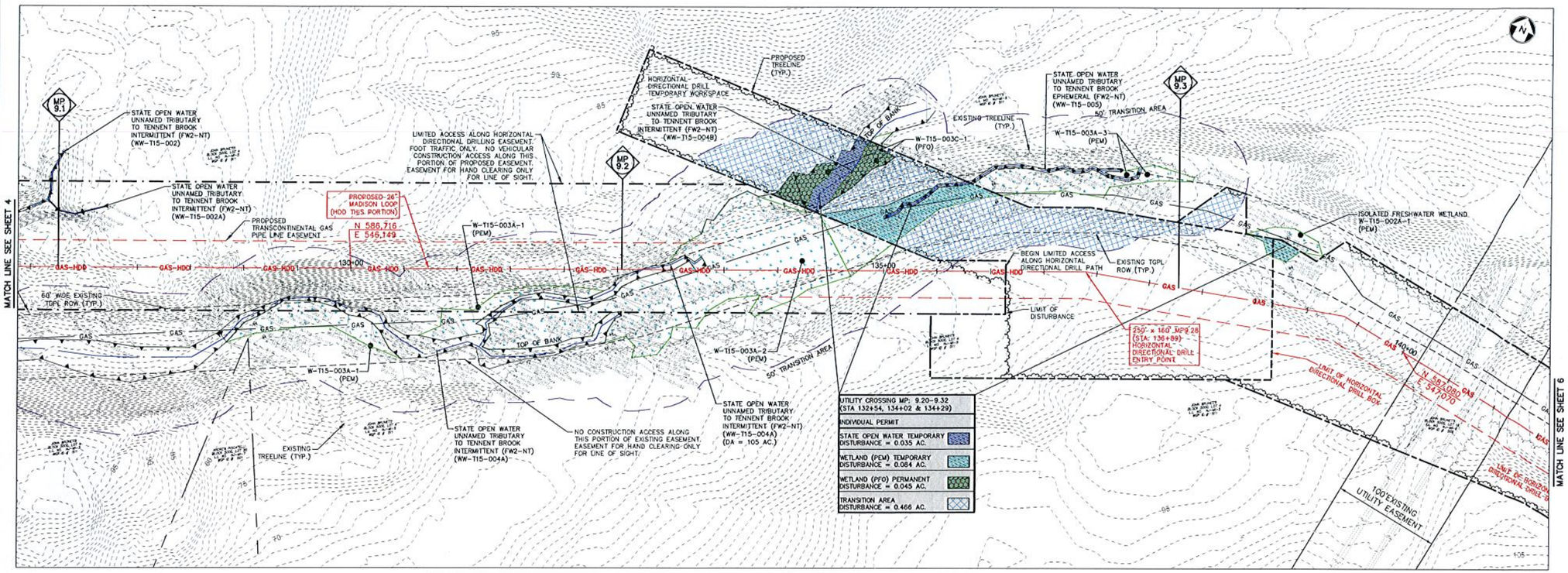
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 8.8 - MP 9.1

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 4 OF 20
SHEET NO. 4



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-008A-1	8.61	101+61	0.005												0.052	0.068		
STATE OPEN WATER		101+83																0.022
W-T01-006A-1	8.69 - 8.77	105+89	0.007												0.231	0.804		
W-T01-007A-1		106+80	0.074															
W-T01-003A-1		107+94																
W-T01-003C-1		108+35				0.238												
STATE OPEN WATER		109+15																0.016
W-T01-007C-1	8.80A	108+59																
W-T01-008C-1		108+35														0.063		
STATE OPEN WATER		108+19																0.009
W-T15-002A-1	8.80B	107+42	0.022														0.228	
STATE OPEN WATER		109+05																0.017
W-T01-009A-1	8.90	115+15	0.060												0.119	0.179	0.006	
W-T01-010C-1	8.96	120+08														0.035		
W-T15-002A-3	9.20 - 9.32	138+58	0.012															
W-T15-003A-3		133+54	0.072												0.141	0.183	0.142	
W-T15-003C-1		134+02				0.045												
STATE OPEN WATER		134+29																0.035
W-T15-004C-1	10.05 - 10.19	178+17				0.030												
W-T01-014A-1		178+96	0.494															
W-T01-014C		181+58				0.034									1.093	0.136	0.549	
W-T01-014B-1		184+08							0.007									
STATE OPEN WATER		177+44																0.058
W-T01-018D-1	10.45	198+70														0.021	0.040	
W-T01-013A-1	10.69 - 10.74	213+85	0.544												0.263	0.002	0.016	
W-T01-012D-1		212+29																
W-T07-002A-1	10.87-10.94	234+14	0.001												0.079	0.013	0.168	
W-T07-001D-1		223+23																
W-T07-003C-1		220+70																
W-T07-003A-1	11.36 - 11.42	244+98	0.581												0.448	0.016	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.43 - 11.50	250+31										0.004				0.002	0.038	
W-T01-017A-1	11.77 - 11.94	268+16	0.004															
W-T01-017D-1		270+57													0.001	0.101	0.229	
TOTAL			1.976	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.992	0.157	

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft

NOTES:
1. SEE DETAIL SHEET 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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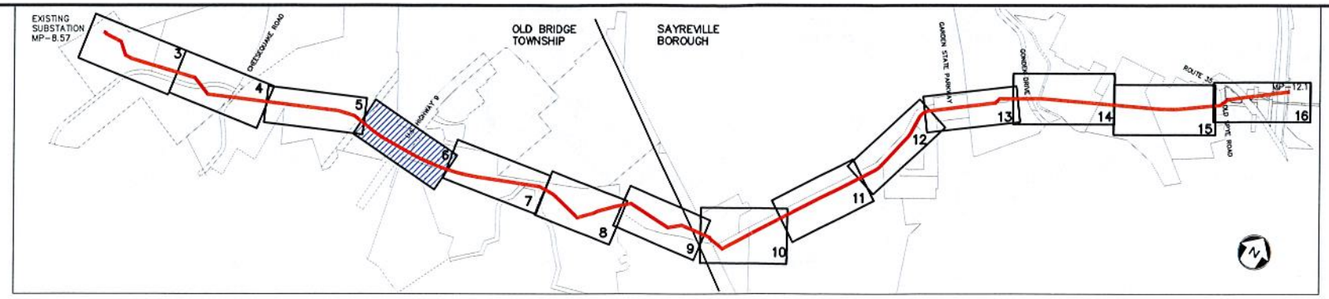
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

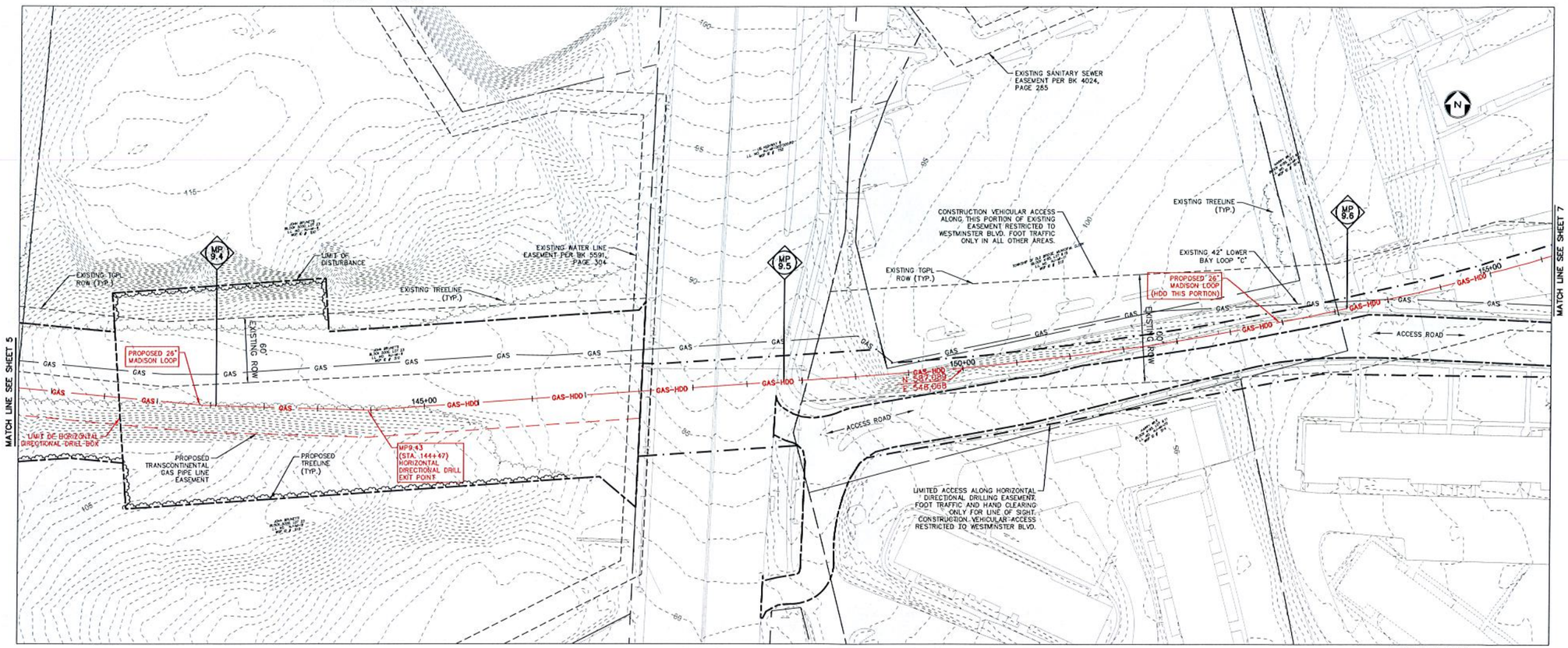
SHEET TITLE
WETLAND PERMIT PLAN
MP 9.1 - MP 9.4

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 5 OF 20
SHEET NO. 5	



KEY MAP

SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T05-008E-1	8.61	101+61	0.005												0.052	0.068		0.022
STATE OPEN WATER		101+61																
W-T05-008A-1	8.69 - 8.77	105+19	0.007												0.231	0.304		
W-T01-007A-1		106+80	0.074															
W-T05-003A-1		107+84																
W-T05-003C-1		108+33					0.218											
STATE OPEN WATER		109+15																0.015
W-T05-007C-1	8.80A	108+59																
W-T01-003C-1		108+35														0.063		
STATE OPEN WATER		108+99																0.009
W-T1.5-001A-1	8.80B	107+42	0.032														0.228	
STATE OPEN WATER		109+05																0.017
W-T05-008A-1	8.90	116+65	0.060												0.119	0.179	0.008	
W-T01-010C-1	8.96	120+08														0.035		
W-T1.5-002A-1	9.30 - 9.32	118+68	0.012															
W-T1.5-003A-1		121+54	0.072												0.141	0.183	0.142	
W-T1.5-009C-1		124+03					0.045											
STATE OPEN WATER		124+29																0.039
W-T1.5-004C-1	10.05 - 10.15	126+17					0.010											
W-T01-014A-1		129+66	0.494												1.093	0.136	0.549	
W-T05-014C		131+88					0.094											
W-T05-014E-1		134+08							0.007									
STATE OPEN WATER		137+44																0.058
W-T05-018D-1	10.45	138+70														0.021	0.040	
W-T05-015A-1	10.69 - 10.74	213+85	0.544												0.263	0.002	0.016	
W-T05-012D-1		210+39																
W-T07-002A-1	10.87-10.94	324+54	0.001												0.079	0.013	0.158	
W-T07-001D-1		323+23																
W-T07-001C-1		320+70																
W-T07-003A-1	11.33 - 11.42	244+08	0.681												0.648	0.036	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.43 - 11.50	250+31										0.004				0.002	0.058	
W-T05-015A-1	11.77 - 11.84	268+58	0.004															
W-T05-017D-1		270+67													0.321	0.101	0.328	
TOTAL			1.978	0.000	0.000	0.000	0.827	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.592	0.159

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

NOTES:

1. NO NJDEP FRESHWATER WETLANDS REGULATED FEATURES ON THIS SHEET.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- 620 WETLAND FLAGS
- 632 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN HERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

SIGNATURE 04/24/19 DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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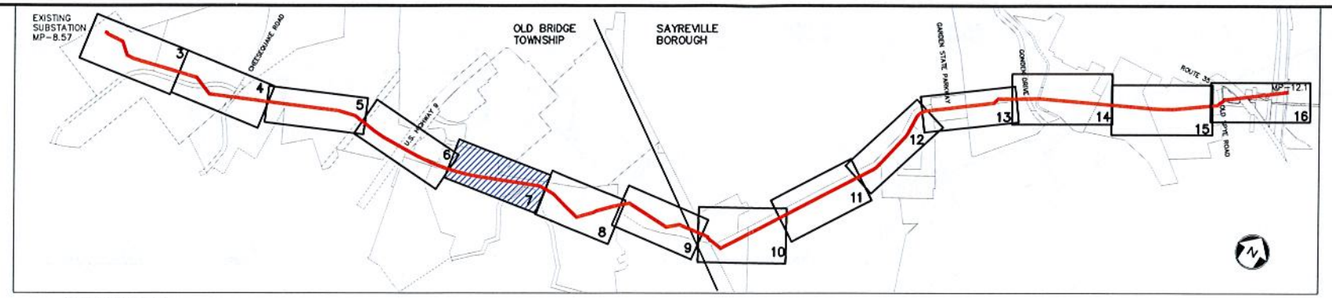
PROJECT

NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

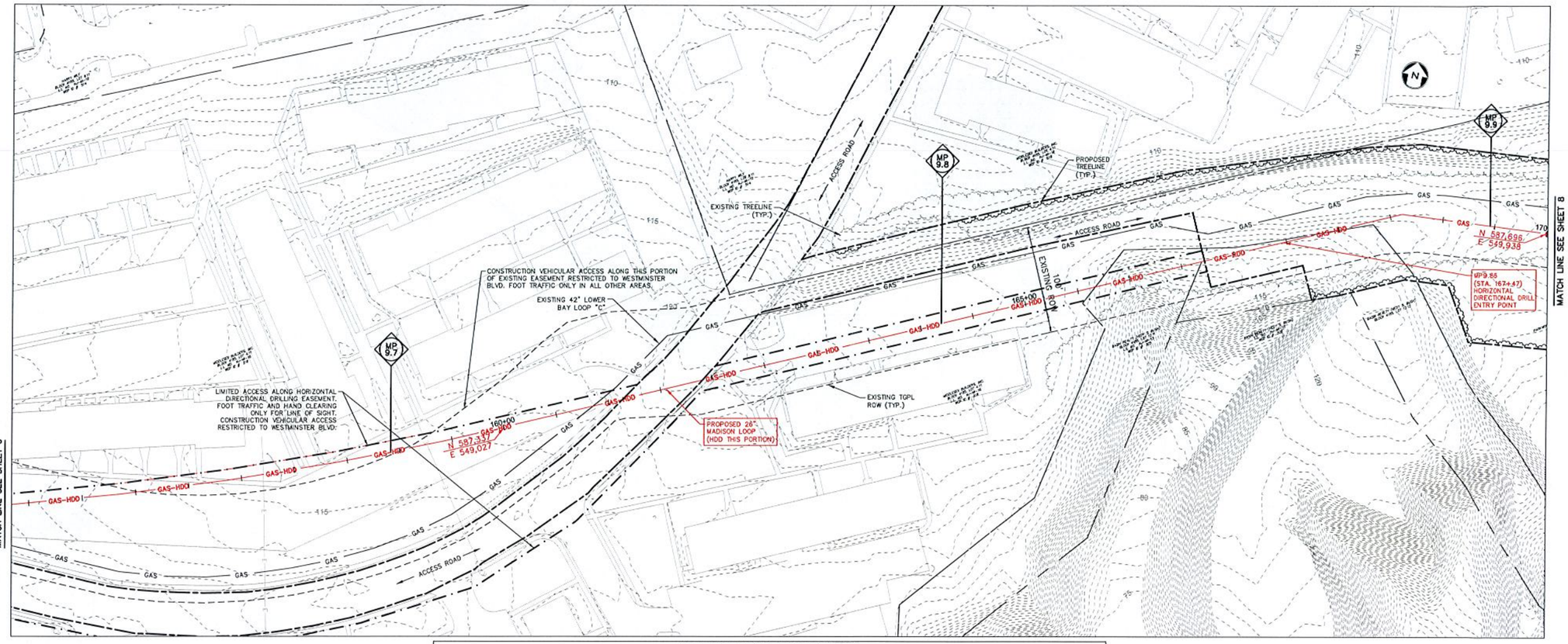
SHEET TITLE

WETLAND PERMIT PLAN
MP 9.4 - MP-9.6

PROJECT NO.: 05731 0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 6 OF 20
SHEET NO.	6



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) [ACRES] WETLANDS			PALUSTRINE FORESTED (PFO) [ACRES] WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) [ACRES] WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T0C-006A-1	8.61	10C+83	0.005															
STATE OPEN WATER		10C+83													0.052	0.068		0.022
W-T0C-006A-1	8.69 - 8.77	10B+89	0.007															
W-T01-007A-1		10K+80	0.074															
W-T0C-009A-1		10T+94													0.231	0.304		
W-T0C-009C-1		10R+35				0.23f												
STATE OPEN WATER		10S+15																0.016
W-T0C-009C-1	8.806	10R+59																
W-T01-009C-1		10R+35														0.063		
STATE OPEN WATER		10R+59																0.009
W-T1S-009A-1	8.808	10T+42	0.022														0.228	
STATE OPEN WATER		10R+35																0.057
W-T0C-008A-1	8.90	11A+55	0.060												0.118	0.179	0.008	
W-T0C-012C-1	8.96	12R+38														0.035		
W-T1S-003A-1	9.20 - 9.32	13B+58	0.012															
W-T1S-003A-1		13J+34	0.072															
W-T1S-003C-1		13M+02				0.045									0.141	0.183	0.142	
STATE OPEN WATER		13M+29																0.035
W-T1S-004C-1	10.05 - 10.19	17B+17				0.C10												
W-T0C-014A-1		17B+90	0.494															
W-T0C-014C		18J+88				0.034									1.093	0.156	0.549	
W-T0C-014B-1		18M+08							0.007									
STATE OPEN WATER		17J+46																0.058
W-T0C-016D-1	10.45	19R+70														0.021	0.040	
W-T0C-011A-1	10.69 - 10.74	21J+85	0.564												0.259	0.062	0.018	
W-T0C-012D-1		21C+39																
W-T0T-002A-1	10.87-10.94	22H+34	0.001												0.079	0.013	0.158	
W-T0T-002D-1		23B+23																
W-T0T-002C-1		23C+70																
W-T0T-003A-1	11.35 - 11.42	24J+58	0.681												0.448	0.066	0.177	
W-T0T-003B-1		24P+08																
W-T0T-004D-1	11.43 - 11.50	25K+35										0.004				0.007	0.018	
W-T0C-013A-1	11.77 - 11.84	29K+16	0.004															
W-T0C-013D-1		27C+37													0.021	0.101	0.228	
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.647	1.143	1.592	0.157

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTICAL/ESTUARINE (E2EM)
- EMERGENT/INTERTICAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. NO NJDEP FRESHWATER WETLANDS REGULATED FEATURES ON THIS SHEET.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J LIC NO. 41319 COA NO. 24GA28032700

SIGNATURE 04/24/19 DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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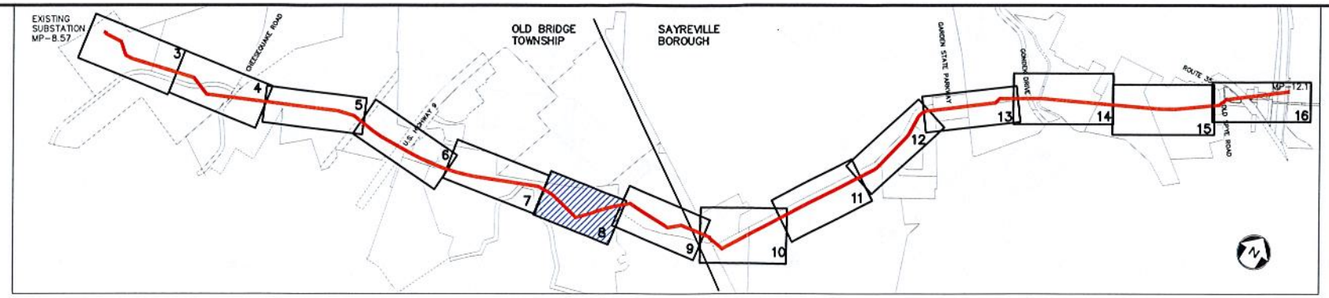
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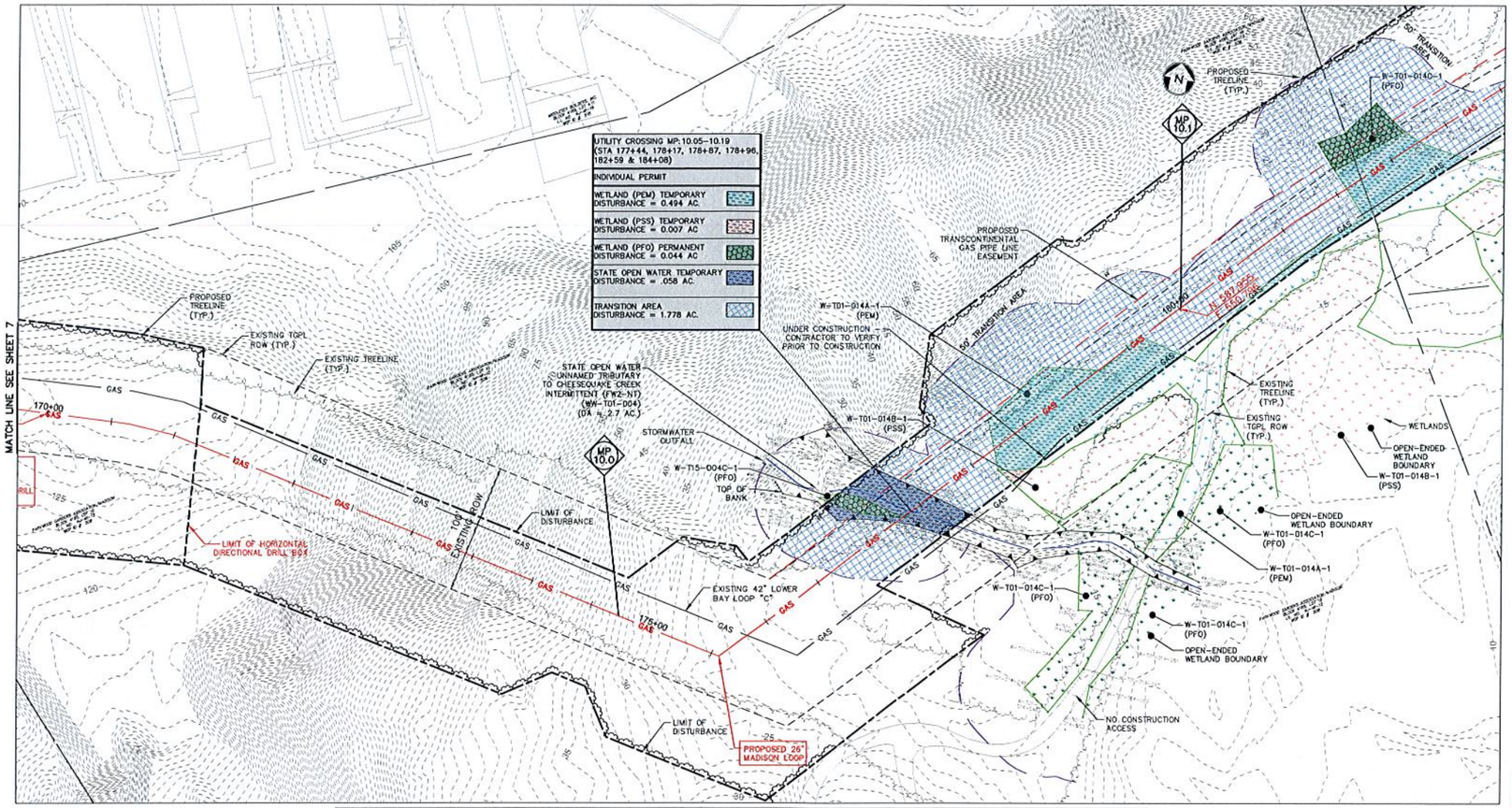
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 9.6 - MP 9.9

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 7 OF 20
SHEET NO. 7



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-006A-1	8.61	101+91	0.005															
STATE OPEN WATER		101+91													0.052	0.068		0.022
W-T01-006A-1		105+89	0.007															
W-T01-007A-1	8.69 - 8.77	106+80	0.016															
W-T01-008A-1		107+84													0.231	0.304		
W-T01-009C-1		108+93					0.238											
STATE OPEN WATER		109+13																0.016
W-T01-007C-1		108+58																
W-T01-003C-1	8.804	108+35														0.063		
STATE OPEN WATER		108+95																0.009
W-T15-001A-1	8.808	107+42	0.022															
STATE OPEN WATER		109+05															0.228	0.017
W-T01-009A-1	8.90	116+55	0.050												0.119	0.179	0.006	
W-T01-010C-1	8.96	120+08														0.035		
W-T15-002A-1		138+58	0.012															
W-T15-003A-1	9.20 - 9.32	153+54	0.072												0.141	0.183	0.147	
W-T15-003C-1		154+03					0.005											
STATE OPEN WATER		154+26																0.035
W-T15-004C-1		178+17					0.010											
W-T01-014A-1		178+86	0.454															
W-T01-014C	10.05 - 10.19	181+88					0.036								1.093	0.136	0.548	
W-T01-014B-1		184+08							0.007									
STATE OPEN WATER		177+44																0.058
W-T01-018D-1	10.48	198+70														0.021	0.040	
W-T01-013A-1	10.69 - 10.74	213+85	0.544												0.263	0.002	0.016	
W-T01-012D-1		216+39																
W-T07-002A-1	10.87-10.94	224+34	0.001												0.079	0.013	0.168	
W-T07-001D-1		223+23																
W-T07-010C-1		220+70																
W-T07-005A-1	11.36 - 11.42	246+58	0.681												0.448	0.036	0.177	
W-T07-006B-1		248+08																
W-T07-004D-1	11.43 - 11.90	250+31										0.004				0.002	0.038	
W-T07-017A-1	11.77 - 11.94	268+16	0.004															
W-T07-017D-1		270+57													0.021	0.105	0.228	
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.502	0.157

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. EXISTING 42" GAS MAIN CURRENTLY BEING RELOCATED FROM STA. 175+84 TO STA. 189+22 AND FROM STA. 196+16 TO STA. 198+70. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO CONSTRUCTION OF 26" GAS MAIN.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TOPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

PAULUS, SOKOLOVSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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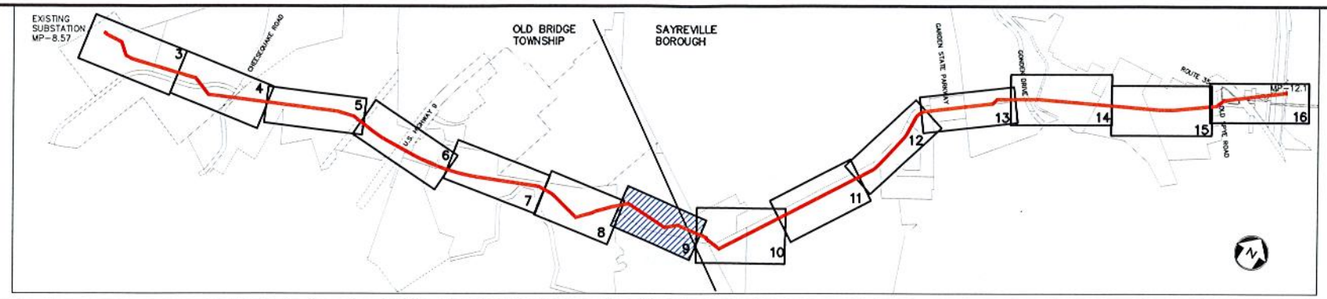
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 9.9 - MP-10.1

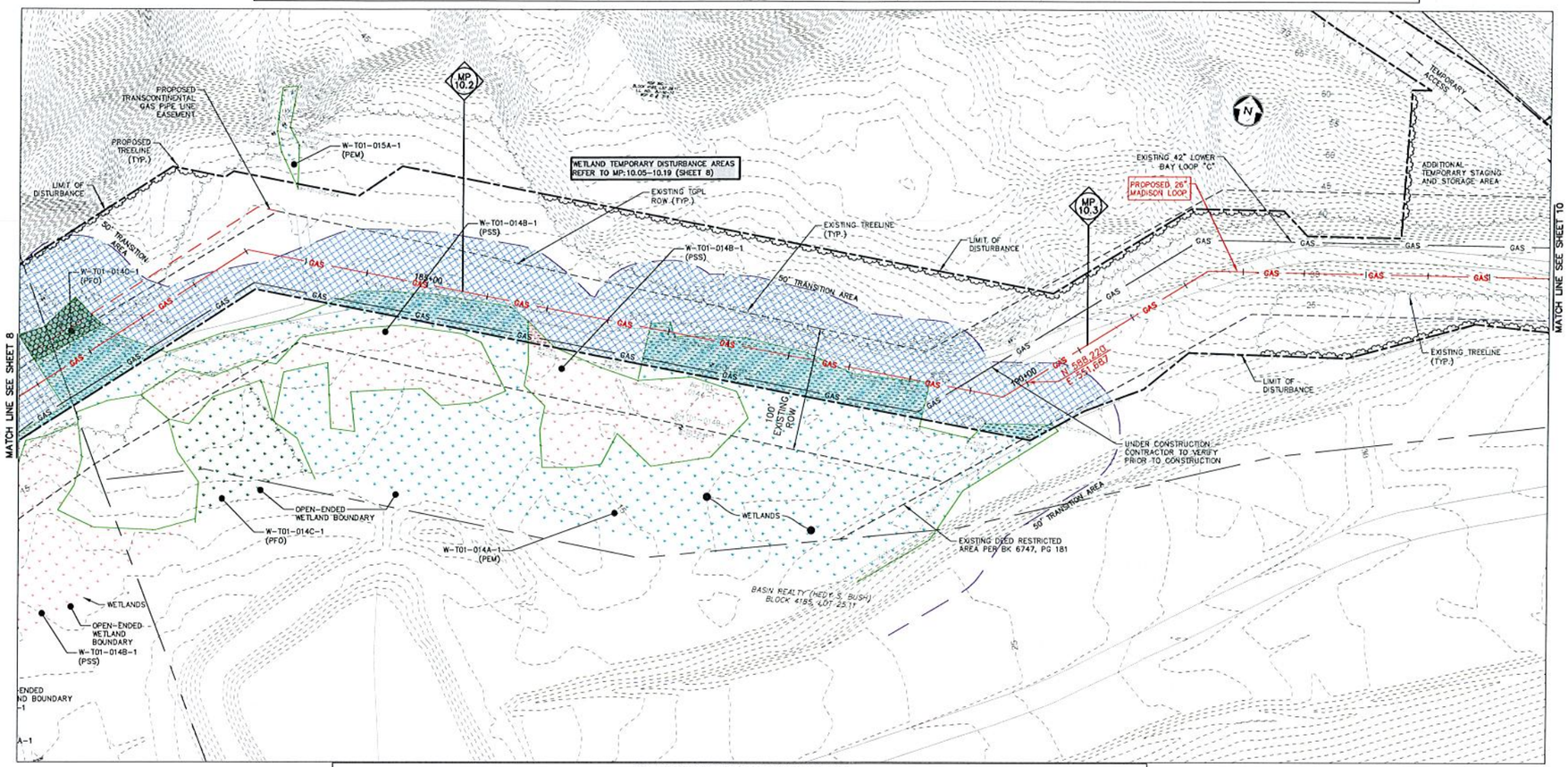
PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 8 OF 20
SHEET NO. 8

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-008A-1	8.61	101+51	0.005															
STATE OPEN WATER		101+51													0.052	0.068		0.022
W-T01-009A-1	8.59 - 8.77	105+89	0.007												0.231	0.304		
W-T01-007A-1		106+80	0.074															
W-T01-005A-1		107+94																
W-T01-003C-1		108+13				0.238												
STATE OF IN WATER		109+15																0.015
W-T01-007C-1	8.80A	108+56														0.063		
W-T01-003C-1		108+35																
STATE OF IN WATER		108+99																0.009
W-T15-002A-1	8.80B	107+42	0.022														0.228	
STATE OF IN WATER		109+05																0.017
W-T01-009A-1	8.90	115+15	0.060												0.119	0.179	0.306	
W-T01-010C-1	8.96	120+08														0.265		
W-T15-002B-1	9.20 - 9.32	128+58	0.052															
W-T15-003A-1		132+54	0.072												0.141	0.183	0.142	
W-T15-003C-1		134+02				0.963												
STATE OF IN WATER		134+29																0.035
W-T15-004C-1	10.05 - 10.19	179+17				0.000									1.093	0.136	0.549	
W-T03-014A-1		178+96	0.484															
W-T01-014C		181+88				0.034												
W-T03-014B-1		184+08							0.007									
STATE OF IN WATER		177+44																0.048
W-T01-016D-1	10.45	198+70														0.021	0.040	
W-T01-012A-1	10.69 - 10.74	213+85	0.544												0.263	0.062	0.016	
W-T01-012D-1		219+95																
W-T07-003A-1	10.87-10.94	224+34	0.061												0.079	0.013	0.168	
W-T07-001D-1		233+23																
W-T07-001C-1		220+70																
W-T07-003A-1	11.35 - 11.42	244+98	0.081												0.448	0.036	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.43 - 11.60	250+31										0.004				0.002	0.038	
W-T01-017A-1	11.77 - 11.94	268+56	0.004												0.021	0.101	0.218	
W-T01-017D-1		270+57																
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.592	0.137

NOTES:

1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
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- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
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- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

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1433 ROUTE 34
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PHONE: (848) 206-2626
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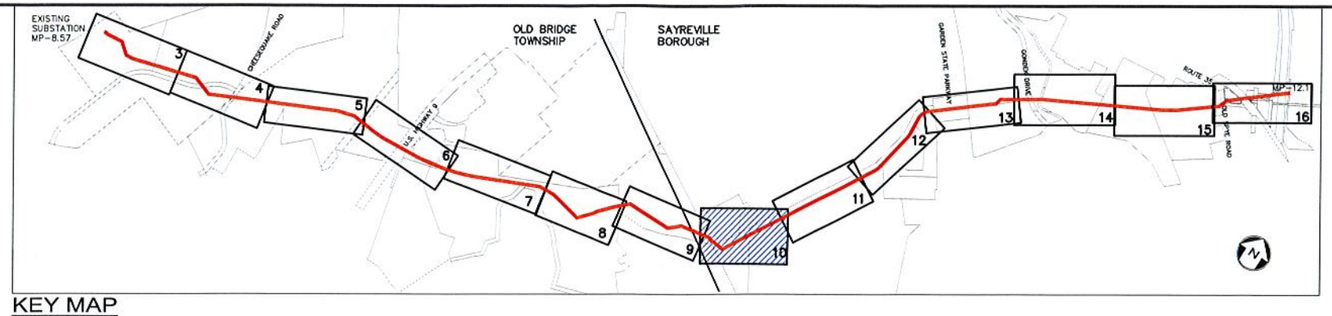
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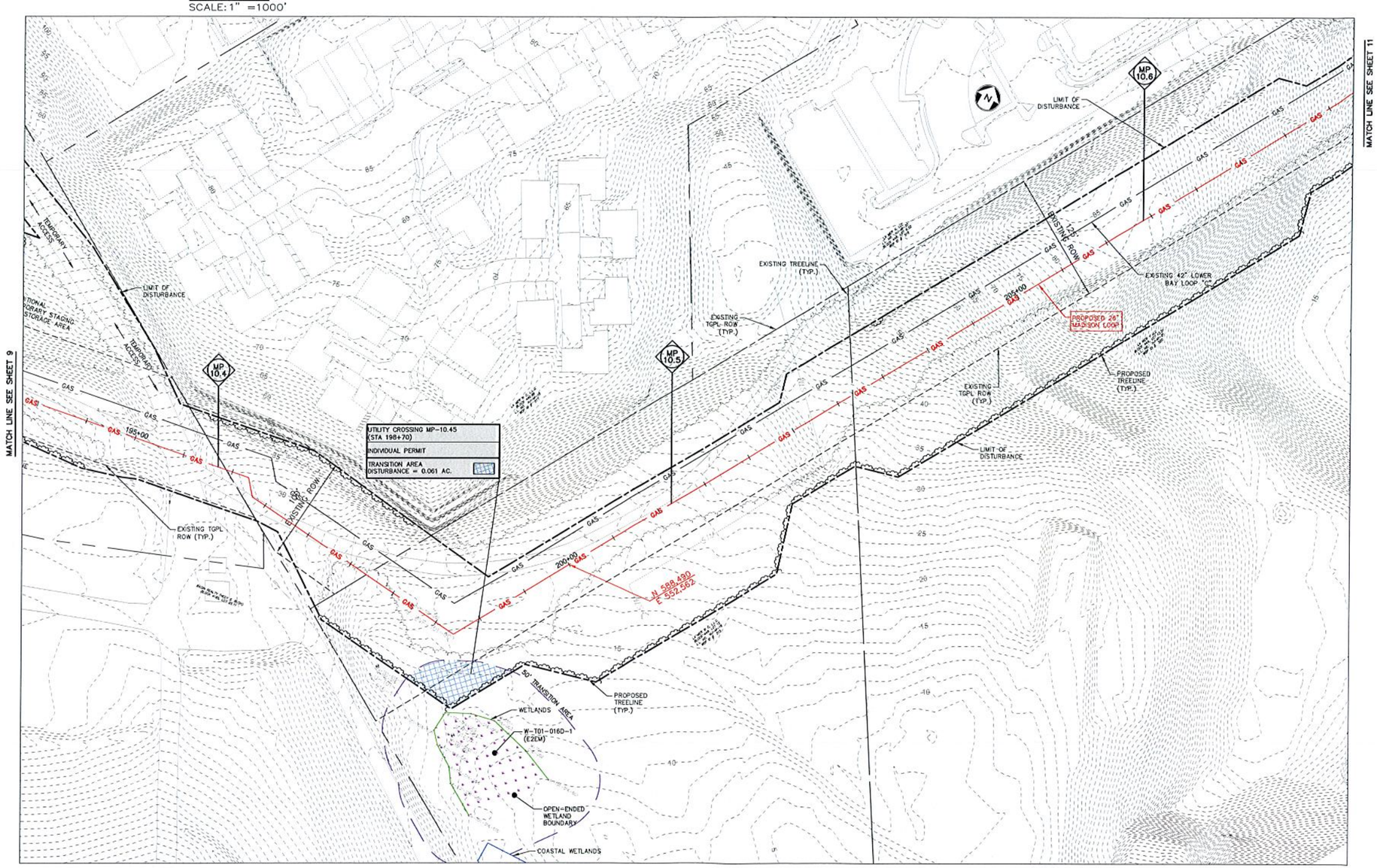
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 10.1 - MP 10.4

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 9 OF 20
SHEET NO.	9



KEY MAP
SCALE: 1" =1000'



WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

NOTES:

1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. SEE SHEET 9 FOR WETLAND UTILITY CROSSING TABULATION.
3. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

SIGNATURE 04/24/19 DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS MUST BE VERIFIED 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.

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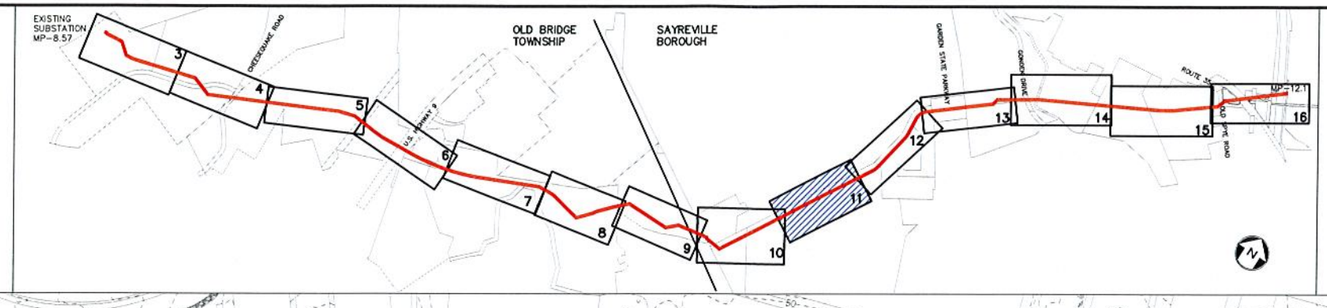
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

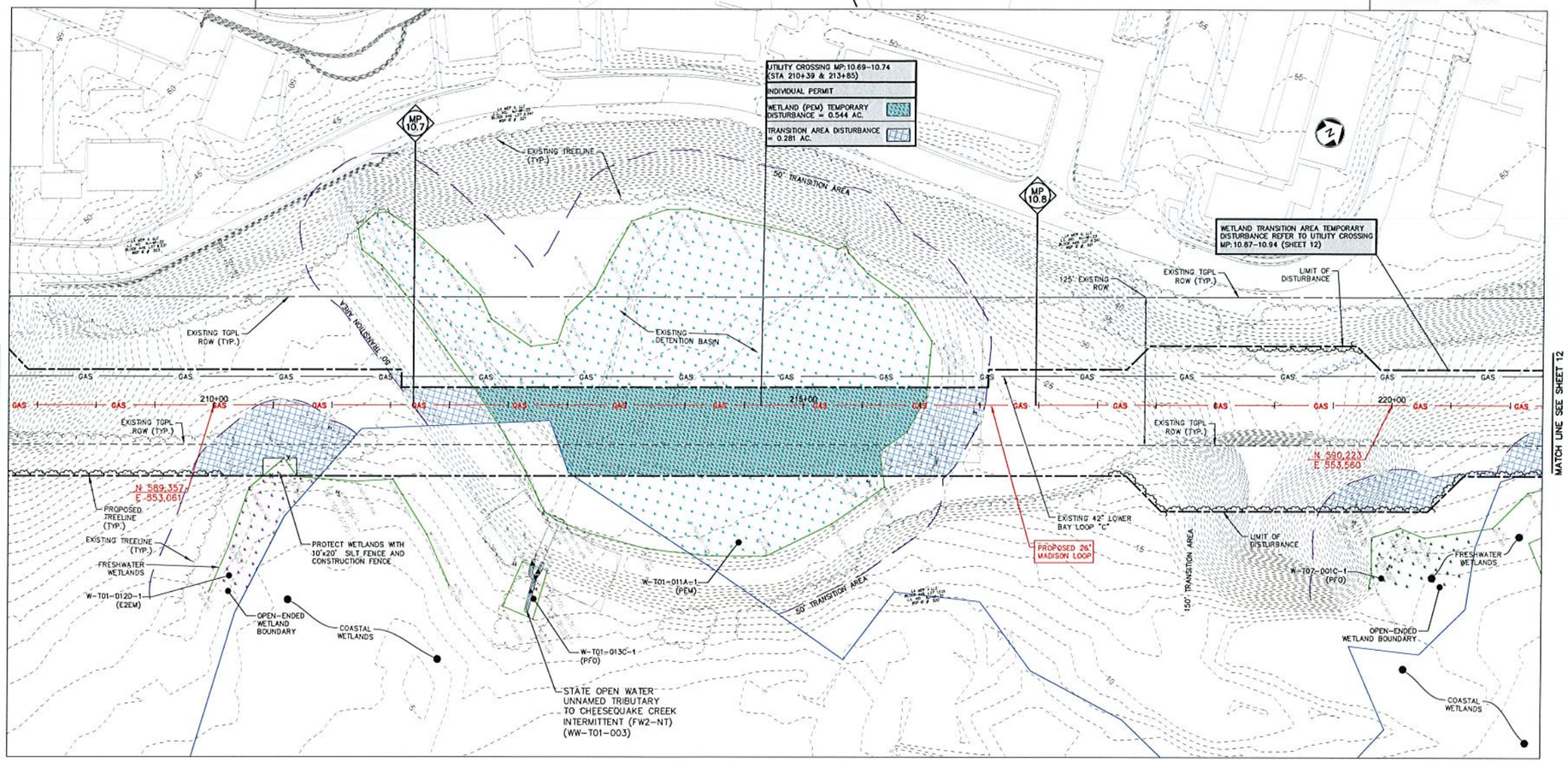
SHEET TITLE
WETLAND PERMIT PLAN
MP 10.4 - MP 10.6

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 10 OF 20

SHEET NO.
10



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND DID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM1) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLAN 26			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLAN 25			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-009A-1	8.61	101+61	0.005												0.052	0.058		
STATE OPEN WATER		101+61																0.032
W-T01-006A-1	8.69 - 8.77	105+81	0.007												0.231	0.304		
W-T01-007A-1		106+80	0.074															
W-T01-008A-1		107+54																
W-T01-009C-1		108+15					0.218											
STATE OPEN WATER		109+15																0.058
W-T01-007C-1	8.80A	106+55														0.063		
W-T01-008C-1		106+85																
STATE OPEN WATER		106+95																0.006
W-T15-001A-1	8.80B	107+42	0.022														0.228	
STATE OPEN WATER		109+08																0.017
W-T01-008A-1	8.90	115+83	0.080												0.119	0.179	0.066	
W-T01-010C-1	8.96	120+28														0.185		
W-T15-002A-1	9.20 - 9.32	118+68	0.012															
W-T15-003A-1		133+54	0.072												0.141	0.183	0.142	
W-T15-003C-1		134+22					0.045											
STATE OPEN WATER		134+29																0.035
W-T15-004C-1	10.03 - 10.19	178+17					0.020								1.083	0.136	0.549	
W-T01-014A-1		178+96	0.454															
W-T01-014C		181+88					0.064											
W-T01-014B-1		184+36							0.007									
STATE OPEN WATER		177+66																0.058
W-T01-016D-1	10.45	188+70														0.021	0.040	
W-T01-013A-1	10.65 - 10.74	213+88	0.544												0.263	0.002	0.016	
W-T01-012O-1		210+39																
W-T07-002A-1	10.87-10.94	224+34	0.005												0.079	0.018	0.168	
W-T07-002O-1		223+23																
W-T07-001C-1		220+70																
W-T07-005A-1	11.36 - 11.43	244+38	0.681												0.448	0.036	0.177	
W-T07-005B-1		248+08																
W-T07-004O-1	11.43 - 11.90	250+31										0.004				0.002	0.058	
W-T01-012A-1	11.77 - 11.94	268+11	0.004															
W-T01-012O-1		270+67													0.031	0.105	0.228	
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	3.647	1.163	1.592	0.157

WETLAND LEGEND

- PALUSTRINE EMERSENT (PEM)
- PALUSTRINE EMERSENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTICAL/ESTUARINE (E2EM)
- EMERGENT/INTERTICAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENT.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
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- STREAM LINE
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- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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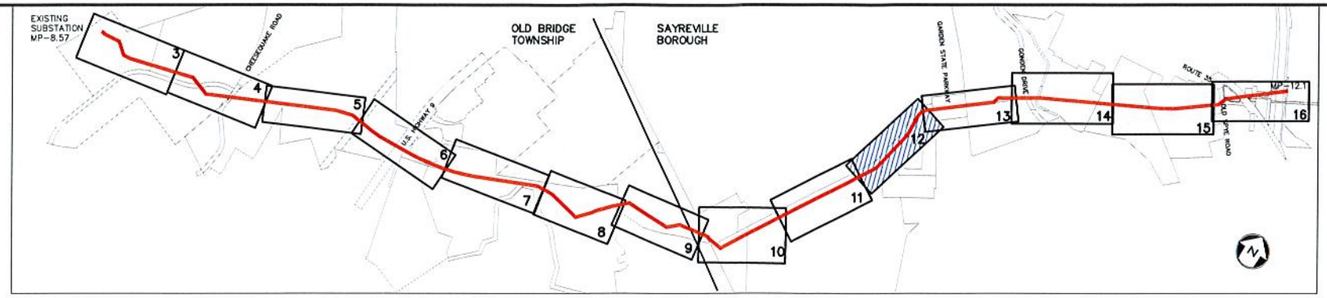
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

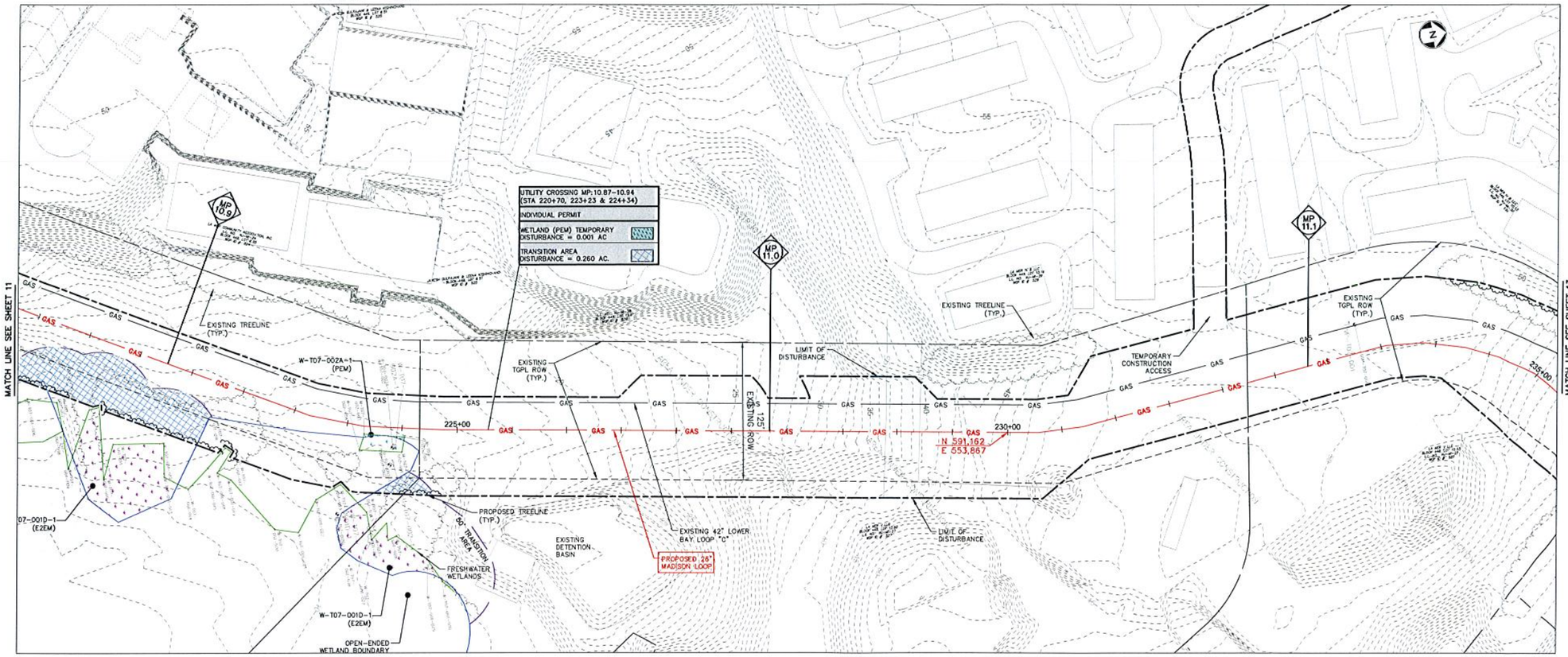
SHEET TITLE
WETLAND PERMIT PLAN
MP 10.6 - MP 10.9

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 11 OF 20

SHEET NO. 11



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T2C-008A-1	8.61	101+61	0.006												0.062	0.068		
STATE OPEN WATER		101+61																0.022
W-T2C-006A-1	8.69 - 8.77	105+89	0.007												0.231	0.804		
W-T2C-007A-1		106+80	0.074															
W-T2C-003A-1		107+94																
W-T2C-003C-1		108+35					0.238											
STATE OPEN WATER		109+15																0.018
W-T2C-007C-1	8.80A	108+59																
W-T01-003C-1		108+85														0.063		
STATE OPEN WATER		109+99																0.009
W-T1S-002A-1	8.80B	107+42	0.023														0.228	
STATE OPEN WATER		109+05																0.017
W-T2C-005A-1	8.90	115+03	0.060												0.119	0.175	0.006	
W-T2C-010C-1	8.93	120+08														0.035		
W-T1S-002A-1	9.20 - 9.32	138+68	0.012															
W-T1S-003A-1		132+54	0.072												0.141	0.183	0.142	
W-T1S-003C-1		134+02					0.045											
STATE OPEN WATER		134+29																0.095
W-T1S-004C-1	10.05 - 10.19	179+17					0.018											
W-T2C-014A-1		178+96	0.454															
W-T01-014C		181+38					0.034								1.093	0.130	0.549	
W-T2C-014B-1		184+38							0.067									
STATE OPEN WATER		177+44																0.058
W-T2C-015D-1	10.43	208+70														0.022	0.660	
W-T2C-011A-1	10.69 - 10.74	213+85	0.564												0.263	0.002	0.016	
W-T2C-012D-1		210+39																
W-T2T-003A-1	10.87-10.94	224+34	0.001												0.079	0.013	0.158	
W-T2T-006D-1		223+23																
W-T2T-006C-1		220+70																
W-T2T-003A-1	11.36 - 11.42	244+08	0.581												0.448	0.038	0.177	
W-T2T-003B-1		248+28																
W-T2T-004D-1	11.49 - 11.60	262+31										0.004				0.002	0.038	
W-T2C-017A-1	11.77 - 11.94	268+16	0.004												0.021	0.101	0.228	
W-T2C-017D-1		270+07																
TOTAL			1.976	0.000	0.000	0.000	0.337	0.000	0.067	0.000	0.000	0.004	0.000	0.000	2.467	1.143	1.392	0.137

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
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- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17–19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
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- EXISTING GAS MAIN
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- EXISTING SIGN
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- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- 600 WETLAND FLAGS
- 472 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN HERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

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04/24/19
SIGNATURE DATE

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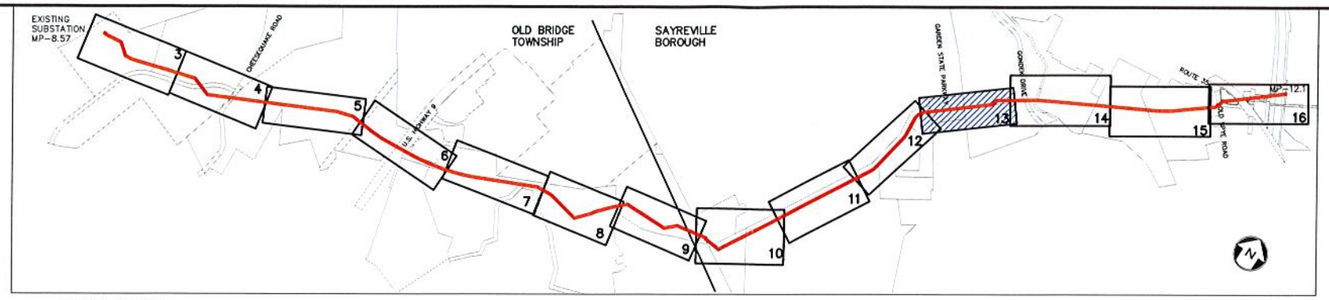
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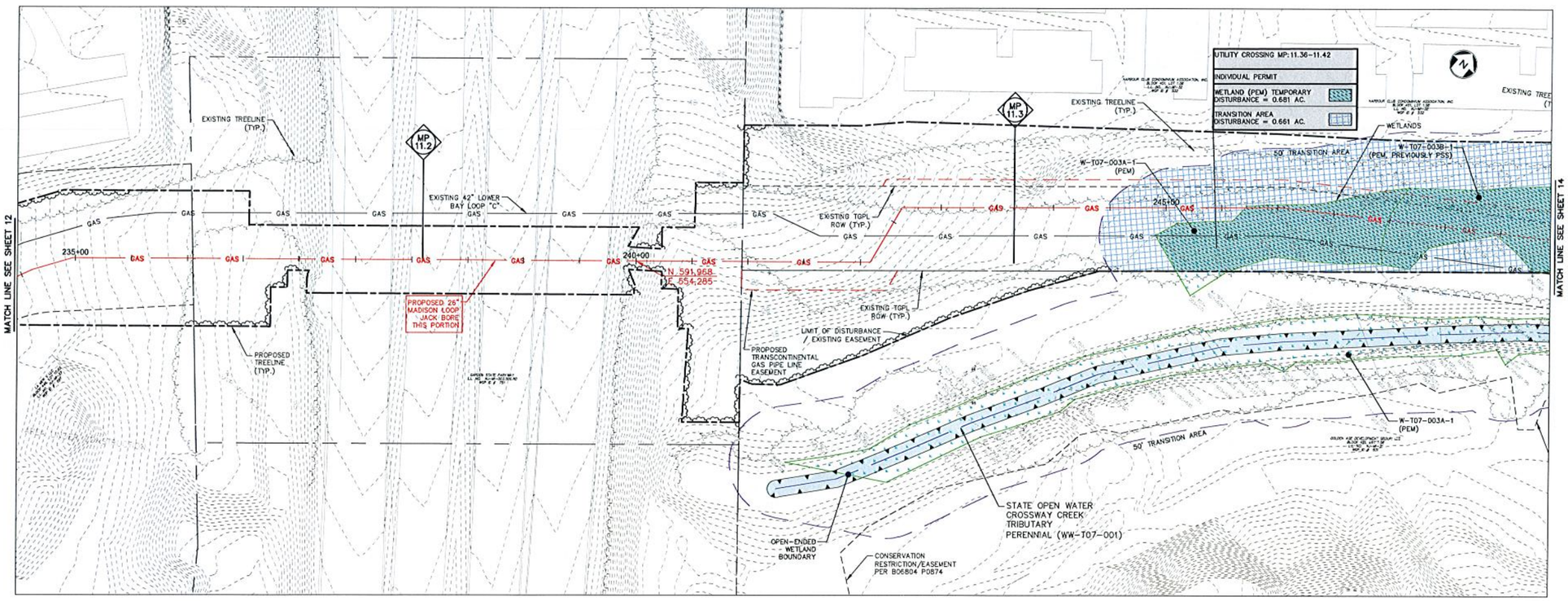
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 10.9 - MP 11.1

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 12 OF 20
SHEET NO. 12	



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-006A-1	8.61	101+53	0.005															
STATE OPEN WATER		101+53													0.052	0.068		0.022
W-T01-005A-1		105+85	0.007															
W-T01-007A-1		106+80	0.074															
W-T01-003A-1	8.69 - 8.77	107+64													0.231	0.304		
W-T01-003C-1		108+35				0.238												
STATE OPEN WATER		109+13																0.016
W-T01-007C-1		108+50																
W-T01-009C-1	8.804	108+35														0.063		
STATE OPEN WATER		108+96																0.009
W-T15-001A-1		107+42	0.022															
STATE OPEN WATER	8.805	109+05															0.228	0.017
W-T01-006A-1	8.90	115+05	0.060												0.118	0.179	0.306	
W-T01-010C-1	8.96	130+08														0.095		
W-T15-002A-1		128+58	0.012															
W-T15-003A-1	9.20 - 9.32	132+54	0.072												0.141	0.183	0.142	
W-T15-001C-1		134+02				0.065												
STATE OPEN WATER		134+76																0.095
W-T15-004C-1		176+17				0.010												
W-T01-014A-1		178+96	0.494															
W-T01-014C	10.05 - 10.19	181+38				0.034									1.093	0.136	0.543	
W-T01-014B-1		184+08							0.007									
STATE OPEN WATER		177+44																0.058
W-T01-016D-1	10.45	198+70														0.021	0.040	
W-T01-011A-1	10.69 - 10.74	213+35	0.544															
W-T01-012D-1		220+35													0.263	0.102	0.215	
W-T07-002A-1		224+34	0.001															
W-T07-001D-1	10.87-10.94	233+23													0.079	0.013	0.158	
W-T07-001C-1		230+70																
W-T07-001A-1		246+08	0.681															
W-T07-003B-1	11.36 - 11.42	248+08													0.448	0.036	0.177	
W-T07-004D-1	11.43 - 11.50	250+31										0.004				0.002	0.008	
W-T01-013A-1	11.77 - 11.94	268+16	0.004															
W-T01-017D-1		270+57													0.021	0.101	0.228	
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.592	0.157

WETLAND LEGEND
- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.
3. WETLAND W-T07-003B-1 WAS ORIGINALLY DELINEATED AS A PSS WETLAND DURING THE INITIAL PROJECT FIELD DELINEATIONS CONDUCTED ON AUGUST 24, 2016. IN 2017, TRANSCO MAINTAINED THEIR ROW BY MOWING/CLEARING THE EXISTING WETLAND VEGETATION THROUGH AUTHORIZATION OF PERMIT NUMBERS 000-01-1001.2 FWW 160001; 0000-01-1001.2 FHA 160001; 0000-01-1001.2 WFD 160001; AND 0000-01-1001.2 WFD 160002. AS A RESULT, W-T07-003B-1 WILL BE RESTORED BACK TO PEM WETLAND CONDITION TO ACCOUNT FOR THE EXISTING ROW CONDITIONS AND THE ONGOING AND AUTHORIZED MAINTENANCE OF THE ROW BY TRANSCO.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS MUST BE VERIFIED 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.

ALL DIMENSIONS SHALL BE AS NOTED IN WORDS OR NUMBERS ON THE CONTRACT DRAWINGS. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.

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.

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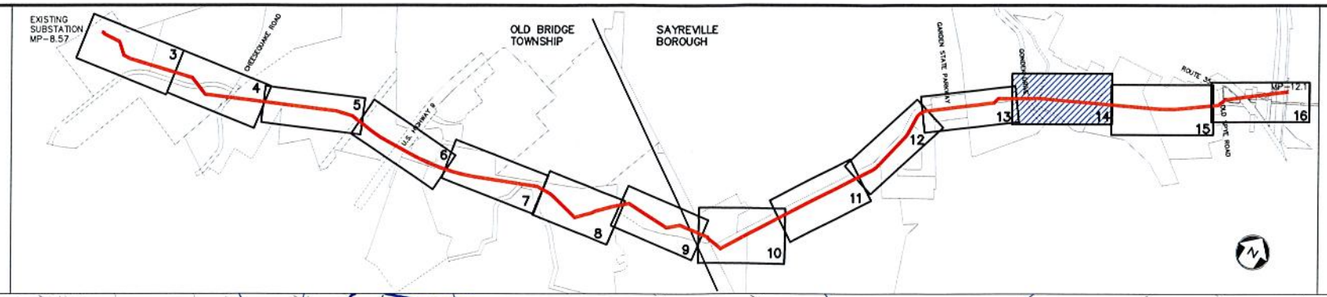
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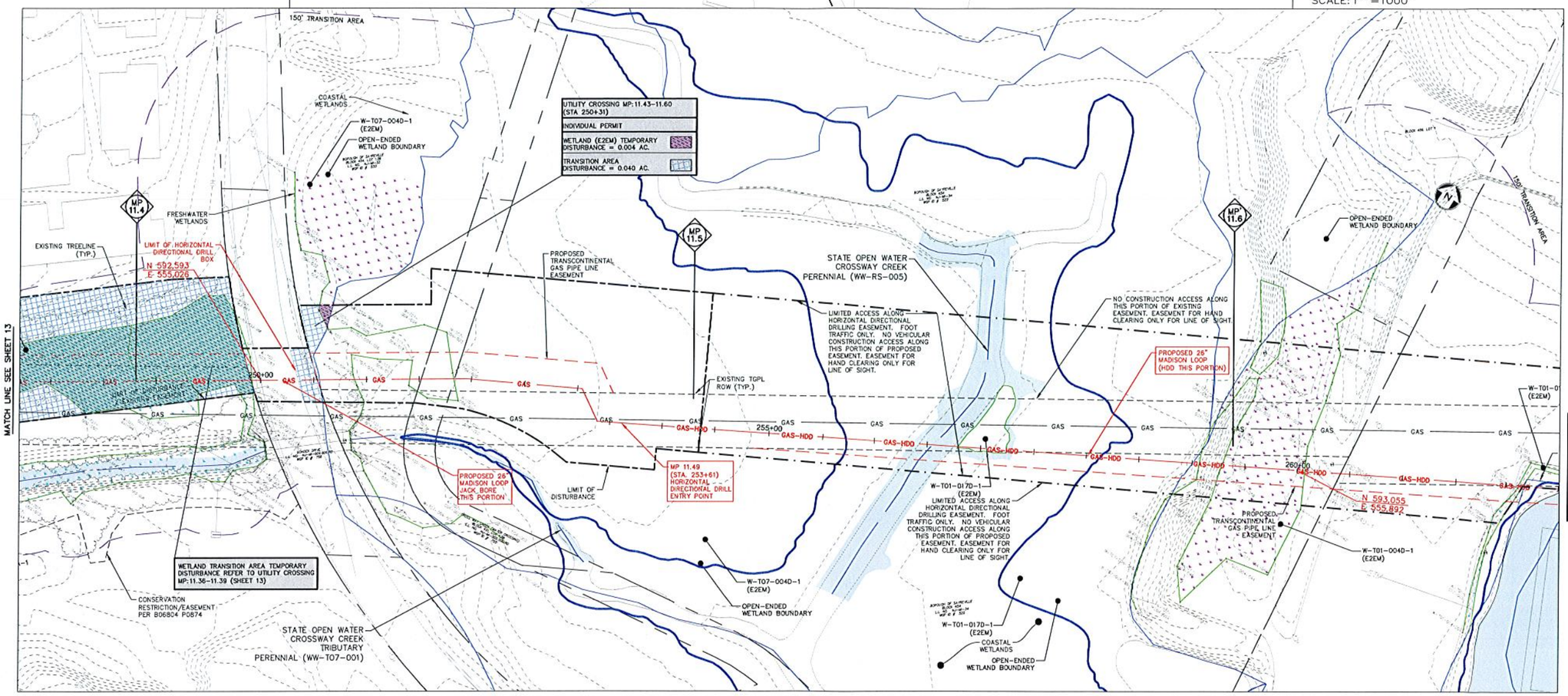
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN MP 11.1 - MP 11.4

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 13 OF 20
SHEET NO.	13



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES) WETLANDS			PALUSTRINE FORESTED (PFO) (ACRES) WETLANDS			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES) WETLANDS			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-006A-1	8.61	101+61	0.005															
STATE OPEN WATER		102+61													0.062	0.068		0.022
W-T01-006A-1	8.69 - 8.77	103+89	0.307												0.335	0.304		
W-T01-007A-1		106+80	0.074															
W-T01-008A-1		107+94																
W-T01-008C-1		108+95				0.238												
STATE OPEN WATER		109+35																0.258
W-T01-007C-1	8.804	108+59														0.068		
W-T01-008C-1		108+95																
STATE OPEN WATER		109+99																0.026
W-T15-001A-1	8.808	101+42	0.032														0.228	
STATE OPEN WATER		109+05																0.023
W-T01-009A-1	8.90	116+65	0.060												0.528	0.179	0.306	
W-T01-010C-1	8.95	120+08														0.035		
W-T15-002A-1	9.20 - 9.32	130+58	0.012												0.191	0.163	0.142	
W-T15-003A-1		130+54	0.072															
W-T15-009C-1		134+22				0.245												
STATE OPEN WATER		134+39																0.285
W-T15-004C-1	10.05 - 10.18	176+17				0.050												
W-T01-014A-1		178+96	0.494															
W-T01-017UC		181+88				0.084									0.098	0.136	0.549	
W-T01-016B-1		184+08							0.067									
STATE OPEN WATER		177+44																0.058
W-T01-016D-1	10.49	186+70														0.021	0.040	
W-T01-014A-1	10.69 - 10.74	213+85	0.540												0.293	0.052	0.026	
W-T01-012D-1		210+39																
W-T01-012A-1		224+34	0.001												0.079	0.013	0.158	
W-T01-013C-1	10.87-10.94	232+23																
W-T01-001C-1		220+70																
W-T07-004A-1	11.36 - 11.42	244+68	0.583												0.468	0.086	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.43 - 11.60	250+31										0.004				0.002	0.038	
W-T01-017A-1	11.77 - 11.84	268+16	0.004															
W-T01-017D-1		270+67													0.101	0.101	0.228	
TOTAL			1.975	0.000	0.000	0.000	0.827	0.000	0.067	0.000	0.000	0.004	0.000	0.000	2.447	1.149	1.592	0.517

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

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1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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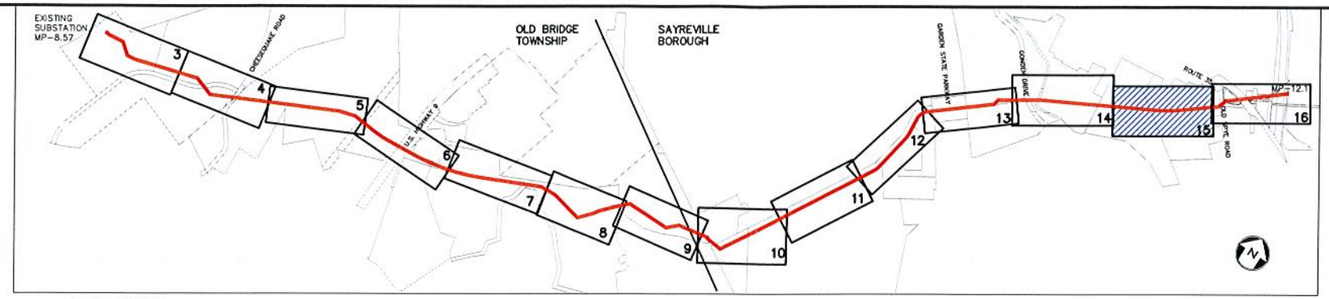
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

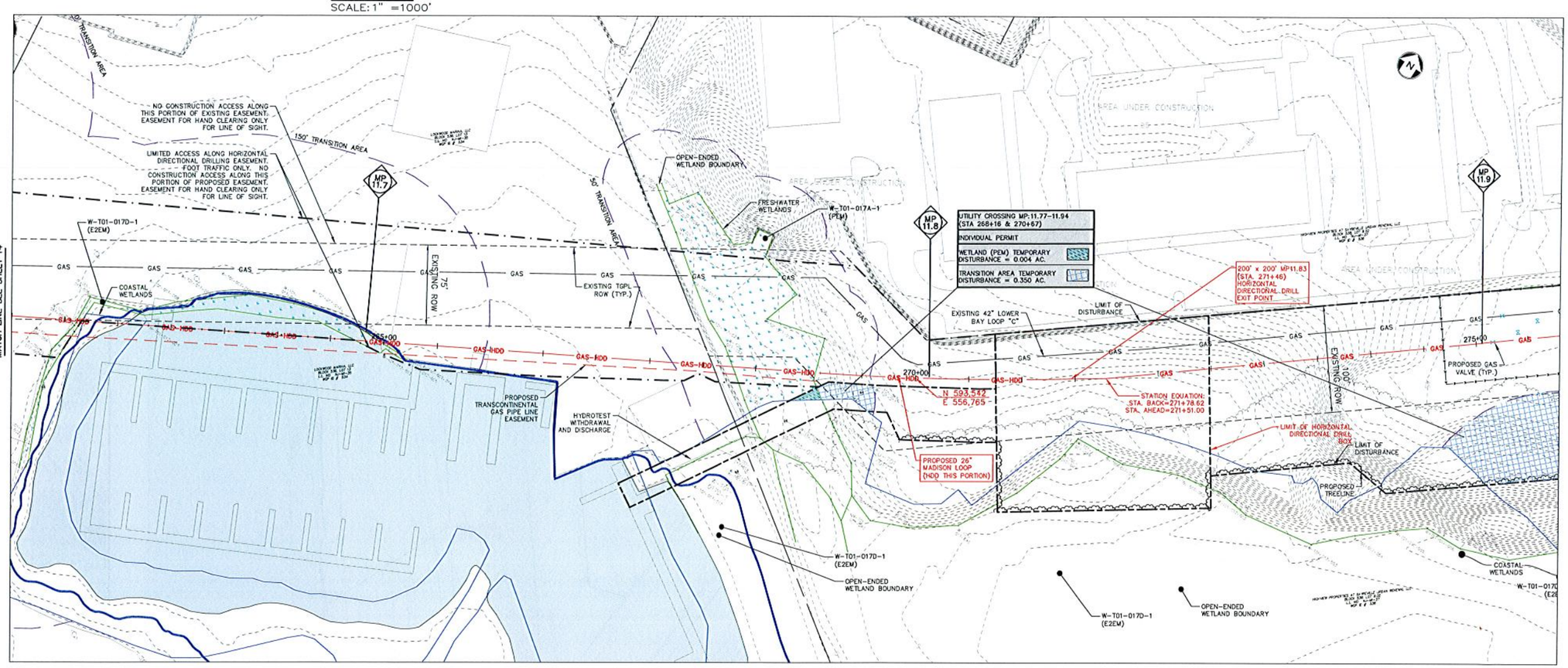
SHEET TITLE
WETLAND PERMIT PLAN
MP 11.4 - MP 11.6

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 14 OF 20
SHEET NO. 14	



KEY MAP

SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) WETLANDS (ACRES)			PALUSTRINE FORESTED (PFO) (ACRES)			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES)			EMERGENT/INTERTIDAL/ESTUARINE WETLANDS			TRANSITION AREA			STATE OPEN WATER
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-006A-1	8.61	101+61	0.005												0.153	0.768		0.032
STATE OPEN WATER		101+61																
W-T01-006A-1	8.69 - 8.77	101+89	0.007												0.231	0.304		
W-T01-007A-1		106+80	0.074															
W-T01-008A-1		107+94																
W-T01-008K-1		108+93				0.238												0.258
STATE OPEN WATER		109+13																
W-T01-007C-1	8.80A	108+59														0.069		
W-T01-008C-1		108+93																
STATE OPEN WATER		109+99																0.009
W-T15-002A-1	8.908	107+42	0.022														0.238	
STATE OPEN WATER		109+05																0.017
W-T01-009A-1	8.90	110+65	0.060												0.119	0.179	0.006	
W-T01-010C-1	8.96	120+08														0.095		
W-T15-003A-1	9.20 - 9.32	138+68	0.012															
W-T15-003A-1		143+54	0.072															
W-T15-003K-1		144+02				0.248									0.141	0.183	0.142	
STATE OPEN WATER		144+29																0.205
W-T15-004C-1	10.05 - 10.19	176+17				0.150												
W-T01-014A-1		178+96	0.494															
W-T01-014C		181+68				0.294									1.059	0.136	0.549	
W-T01-014B-1		184+08							0.007									
STATE OPEN WATER		177+44																0.258
W-T01-016D-1	10.45	186+70														0.022	0.040	
W-T01-016A-1	10.68 - 10.78	213+85	0.544															
W-T01-012D-1		210+39													0.263	0.062	0.018	
W-T07-002A-1	10.87-10.94	219+34	0.003															
W-T07-003D-1		221+23													0.079	0.019	0.168	
W-T07-003E-1		220+79																
W-T07-003A-1	11.36 - 11.42	245+58	0.681												0.448	0.086	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.43 - 11.60	250-31										0.004				0.002	0.038	
W-T01-017A-1	11.77 - 11.94	268+18	0.004															
W-T01-017D-1		270+67													0.121	0.101	0.228	
TOTAL			1.970	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.447	1.143	1.580	0.157

WETLAND LEGEND

- PALUSTRINE EMERSENT (PEM)
- PALUSTRINE EMERSENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERSENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERSENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

NOTES:

1. SEE DETAIL SHEETS 17-19 FOR METHODS OF STREAM CROSSING AND STREAM DIVERSION.
2. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- 425 EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- W EXISTING WATER MAIN
- GAS EXISTING GAS MAIN
- GAS PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA26122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

04/24/19

SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

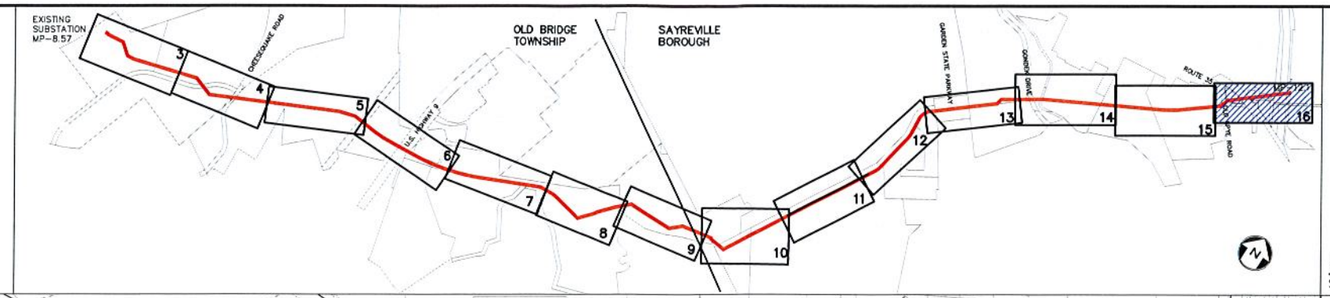
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP

OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

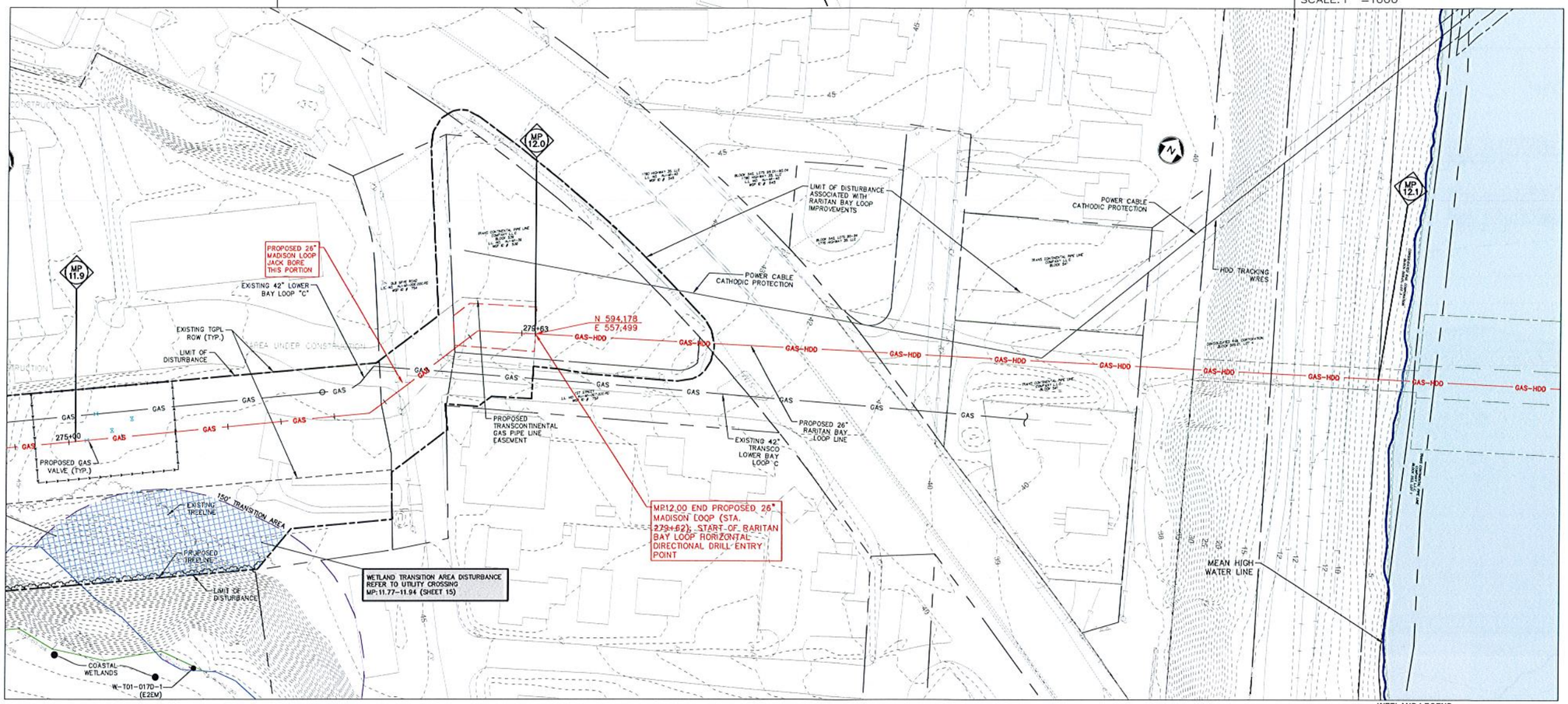
SHEET TITLE

WETLAND PERMIT PLAN
MP 11.6 - MP 11.9

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 15 OF 20
SHEET NO.	15



KEY MAP
SCALE: 1" =1000'



WETLAND UTILITY CROSSING TABULATION

WETLAND ID	MILE POST	STATION	PALUSTRINE EMERGENT (PEM) (ACRES)			PALUSTRINE FORESTED (PFO) (ACRES)			PALUSTRINE SCRUB-SHRUB (PSS) (ACRES)			EMERGENT/INTERTIDAL/ESTUARINE			TRANSITION AREA			STATE OPEN WATER
			WETLANDS			WETLANDS			WETLANDS			WETLANDS						
			TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT AND RESTORATION	TEMPORARY IMPACT
W-T01-006A-1	8.61	301+61	0.005												0.052	0.058		
STATE OPEN WATER		301+61																0.022
W-T01-006A-1	8.09 - 8.77	305+89	0.007												0.123	0.304		
W-T01-007A-1		326+80	0.074															
W-T01-008A-1		327+94																
W-T01-008C-1		328+31				0.238												
STATE OPEN WATER		329+15																0.018
W-T01-007C-1	8.80A	328+59														0.063		
W-T01-010C-1		328+35																
STATE OPEN WATER		328+99																0.009
W-T15-001A-1	8.80B	327+42	0.022														0.228	
STATE OPEN WATER		329+05																0.017
W-T01-009A-1	8.90	335+65	0.060												0.128	0.179	0.006	
W-T01-010C-1	8.96	12C+08														0.035		
W-T15-002A-1	9.20 - 9.32	338+68	0.052												0.541	0.183	0.142	
W-T15-003A-1		342+54	0.072															
W-T15-003C-1		334+02				0.065												
STATE OPEN WATER		341+29																0.035
W-T15-004C-1	10.05 - 10.18	378+17				0.050									1.060	0.198	0.549	
W-T01-014A-1		378+96	0.494															
W-T01-014C		382+88				0.364												
W-T01-014B-1		384+08							0.007									
STATE OPEN WATER		377+44																0.058
W-T01-016D-1	10.45	398+70														0.021	0.040	
W-T01-012A-1	10.69 - 10.74	413+85	0.546												0.263	0.002	0.028	
W-T01-012B-1		415+39																
W-T07-002A-1	10.87-10.96	221+34	0.005												0.079	0.013	0.168	
W-T07-003B-1		223+23																
W-T07-003C-1		220+70																
W-T07-003A-1	11.36 - 11.47	244+98	0.580												0.468	0.016	0.177	
W-T07-003B-1		248+08																
W-T07-004D-1	11.48 - 11.60	260+91										0.004				0.002	0.018	
W-T01-017A-1	11.77 - 11.94	268+16	0.004												0.021	0.101	0.228	
W-T01-017D-1		271+67																
TOTAL			1.976	0.000	0.000	0.000	0.327	0.000	0.007	0.000	0.000	0.004	0.000	0.000	2.467	1.143	1.592	0.157

WETLAND LEGEND

- PALUSTRINE EMERGENT (PEM)
- PALUSTRINE EMERGENT DISTURBED
- PALUSTRINE FORESTED (PFO)
- PALUSTRINE FORESTED DISTURBED
- PALUSTRINE SCRUB-SHRUB (PSS)
- PALUSTRINE SCRUB-SHRUB DISTURBED
- EMERGENT/INTERTIDAL/ESTUARINE (E2EM)
- EMERGENT/INTERTIDAL/ESTUARINE DISTURBED
- STATE OPEN WATER
- TRANSITION AREA DISTURBANCE
- TEMPORARY DISTURBANCE
- PERMANENT DISTURBANCE
- COASTAL WETLAND

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

NOTES:

1. FRESHWATER WETLANDS TRANSITION AREA TEMPORARY DISTURBANCE WITH RESTORATION SHALL BE PROVIDED FOR ALL DISTURBANCE BEYOND PERMANENT EASEMENTS.

REV. / ISSUE	DATE	DESCRIPTION
1	4/22/19	REV TRANSITION AREA WIDTH PER NJDEP

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
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- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC NO. 41319 COA NO. 24GA28032700

04/24/19
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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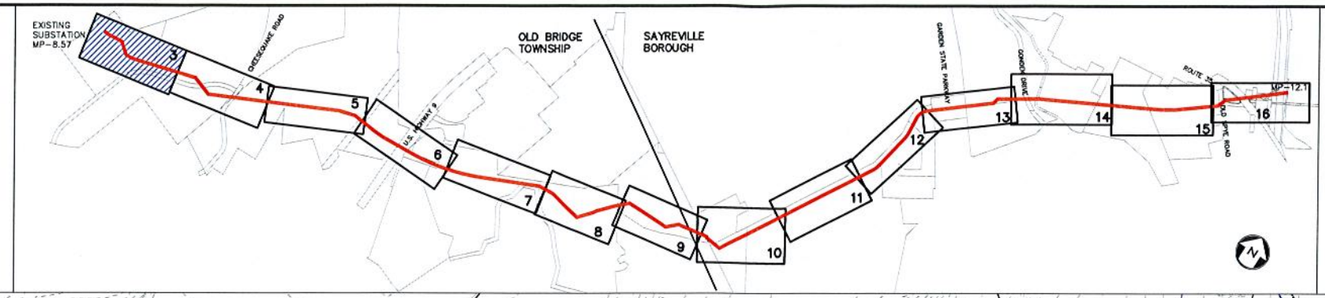
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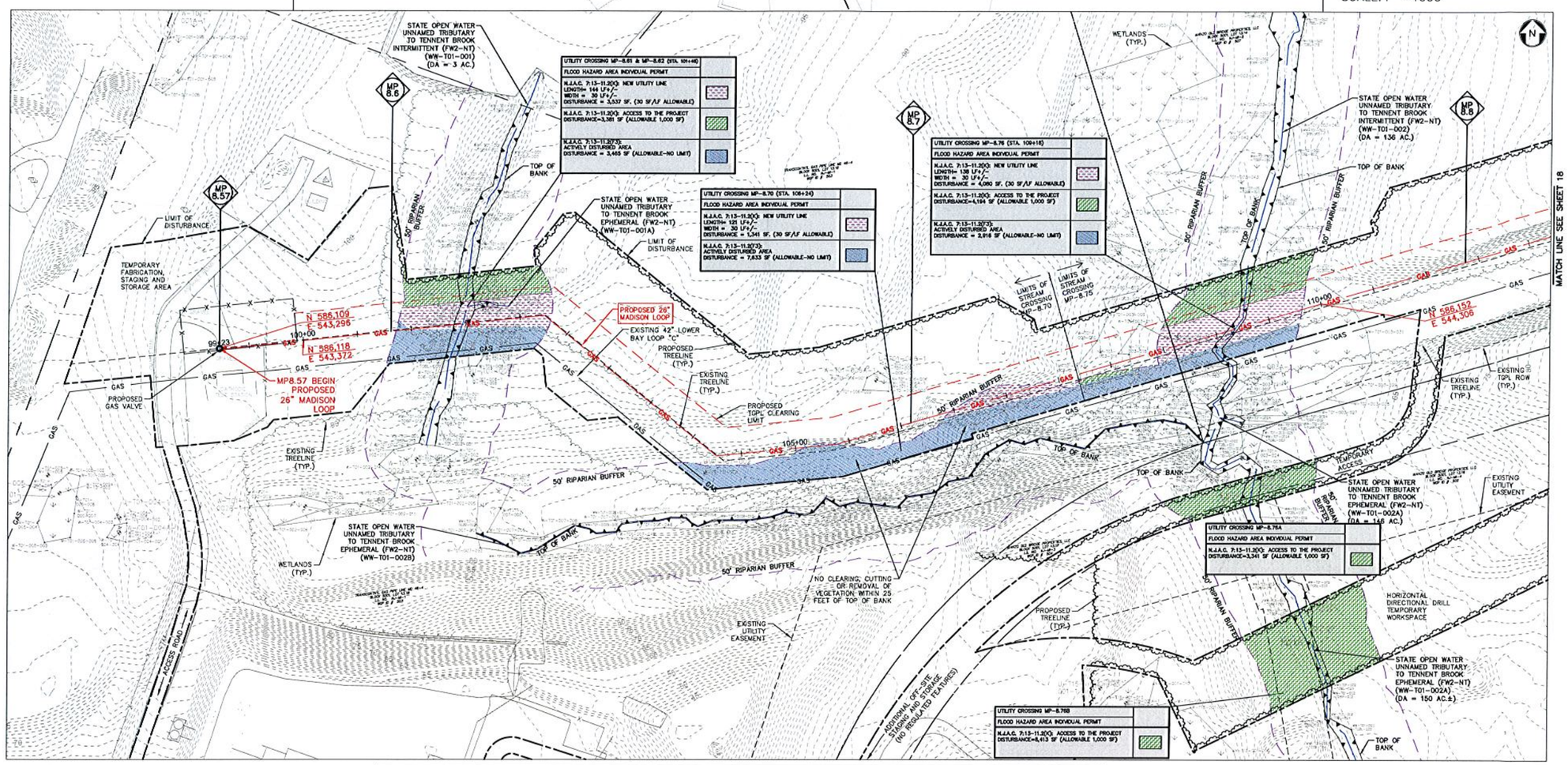
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
WETLAND PERMIT PLAN
MP 11.9 - MP 12.1

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 16 OF 20
SHEET NO. 16



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(Q)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(Y)3)
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	108+24	50 FT.	131	30	3,630	-	1,341	1,341	-	-	-	-	7,833
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+13	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 243+78	50 FT.	-	-	-	-	-	-	-	-	-	-	481
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,330

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17–19 FOR METHOD OF STREAM CROSSING AND STREAM DIVERSION.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
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- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TOPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- B20 WETLAND FLAGS
- A43 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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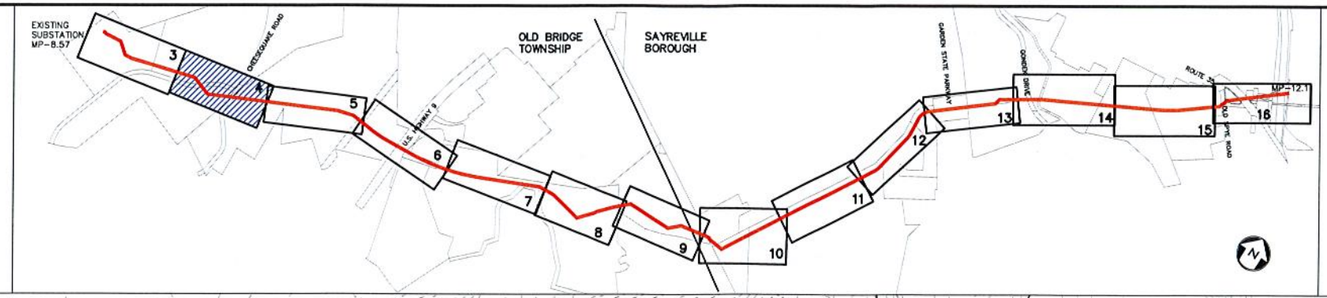
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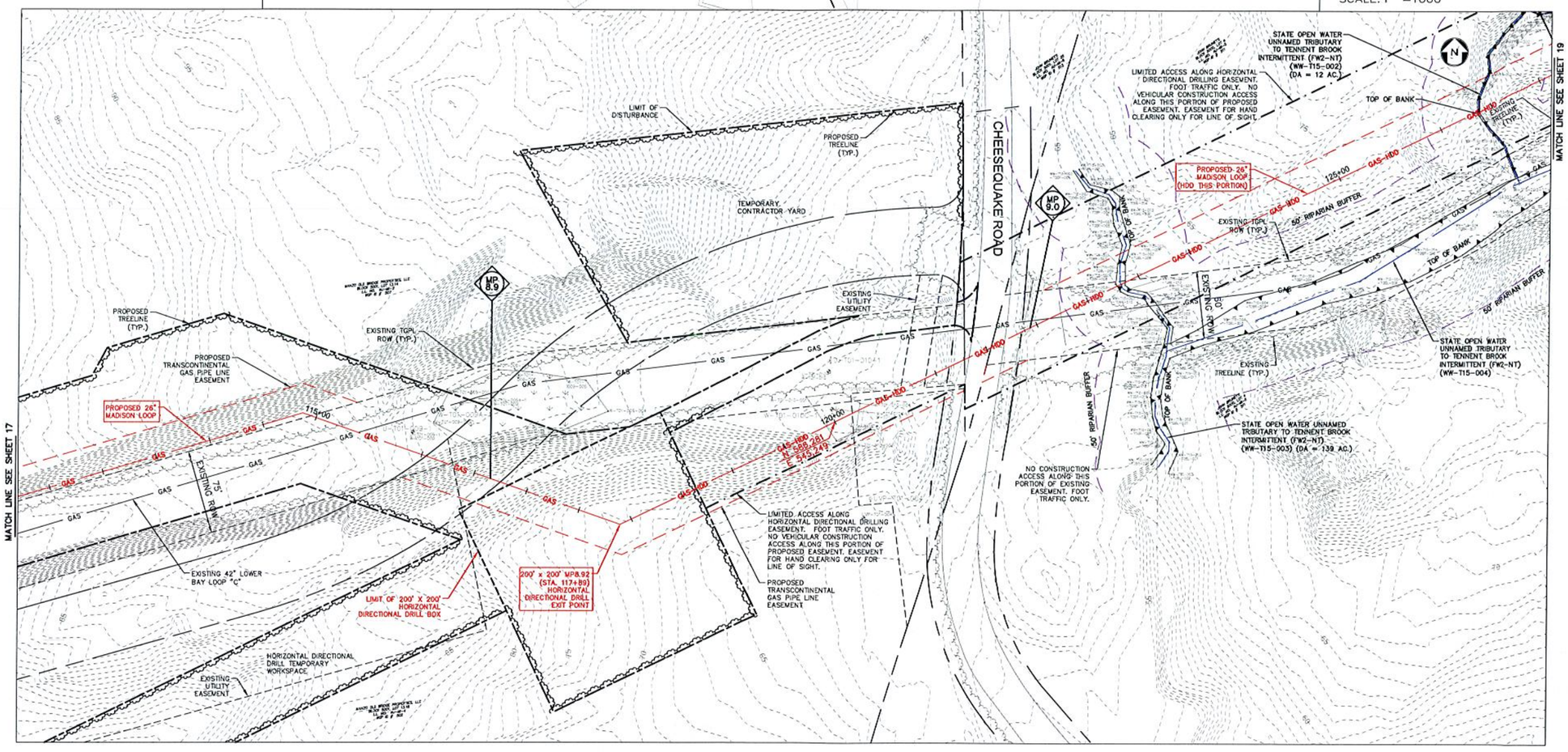
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 8.57 - MP 8.8

PROJECT NO.: 05731.0002		DRAWN BY:	JPS
SCALE:	1 = 50'	CHECKED BY:	WS
DATE:	06/08/18	SHEET	3 OF 20
SHEET NO.	3		



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTRUBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F))
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+88	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	123	30	3,690	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,358	3,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	33,888	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. NO DISTURBANCE TO RIPARIAN ZONE ON THIS SHEET. HORIZONTAL DIRECTIONAL DRILLING IS PROPOSED.
2. SEE DETAIL SHEETS 17–19 FOR METHOD OF STREAM CROSSING AND STREAM DIVERSION.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
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- EXISTING TREELINE/CANOPY
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- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- 820 WETLAND FLAGS
- 432 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
PS&S
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS MUST BE VERIFIED 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.

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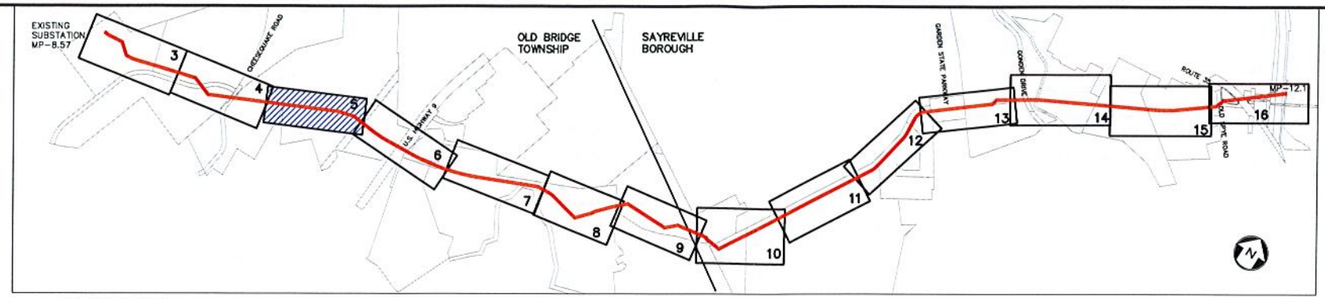
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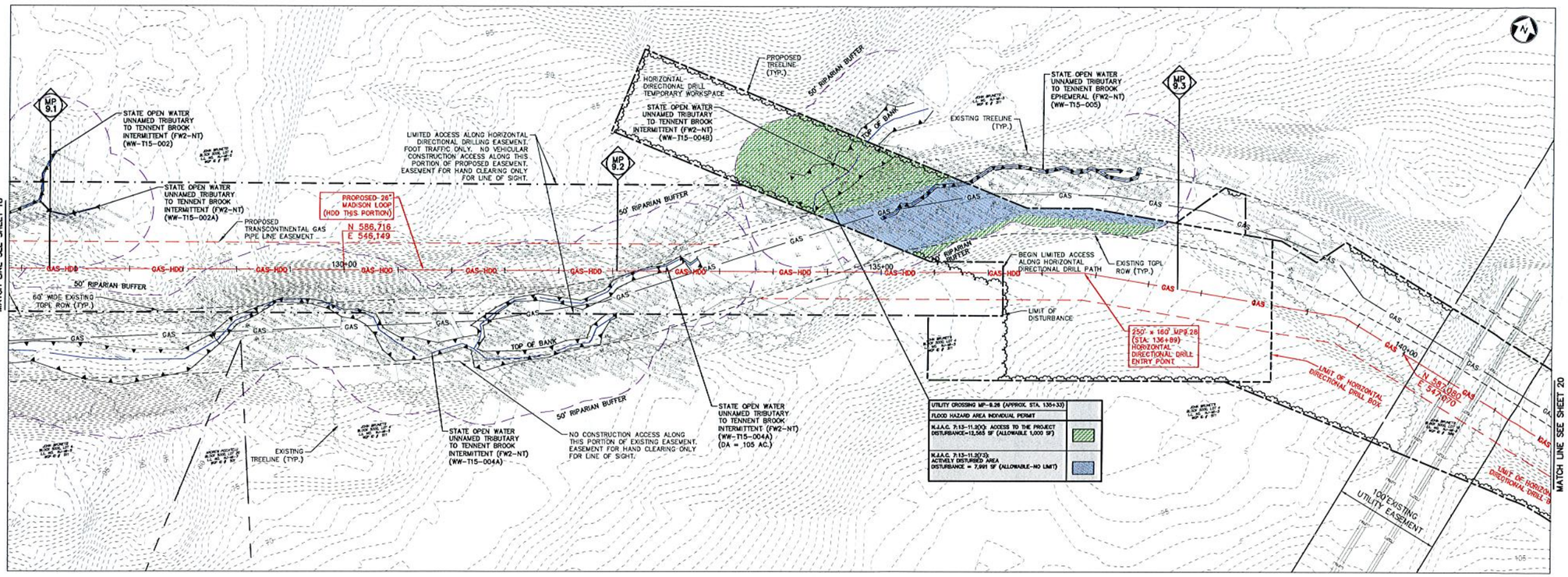
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 8.8 - MP 9.1

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 4 OF 20
SHEET NO. 4	



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F)3)
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,619
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,858	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV./ ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
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- EXISTING TREE
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- TIDELANDS
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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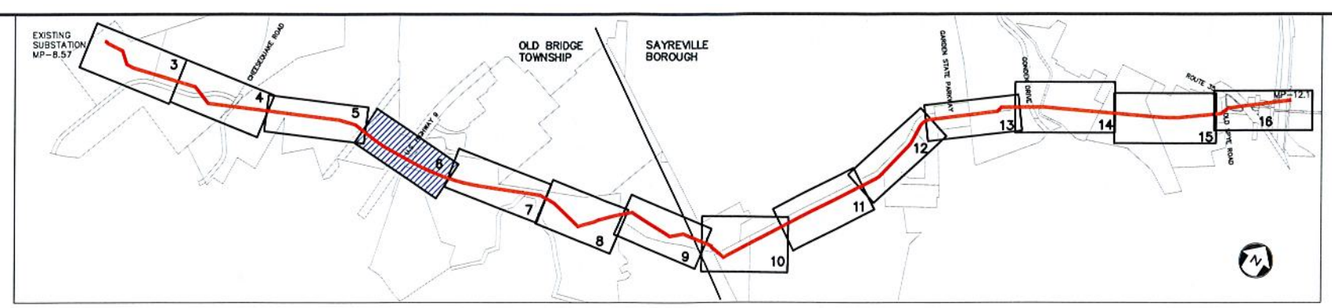
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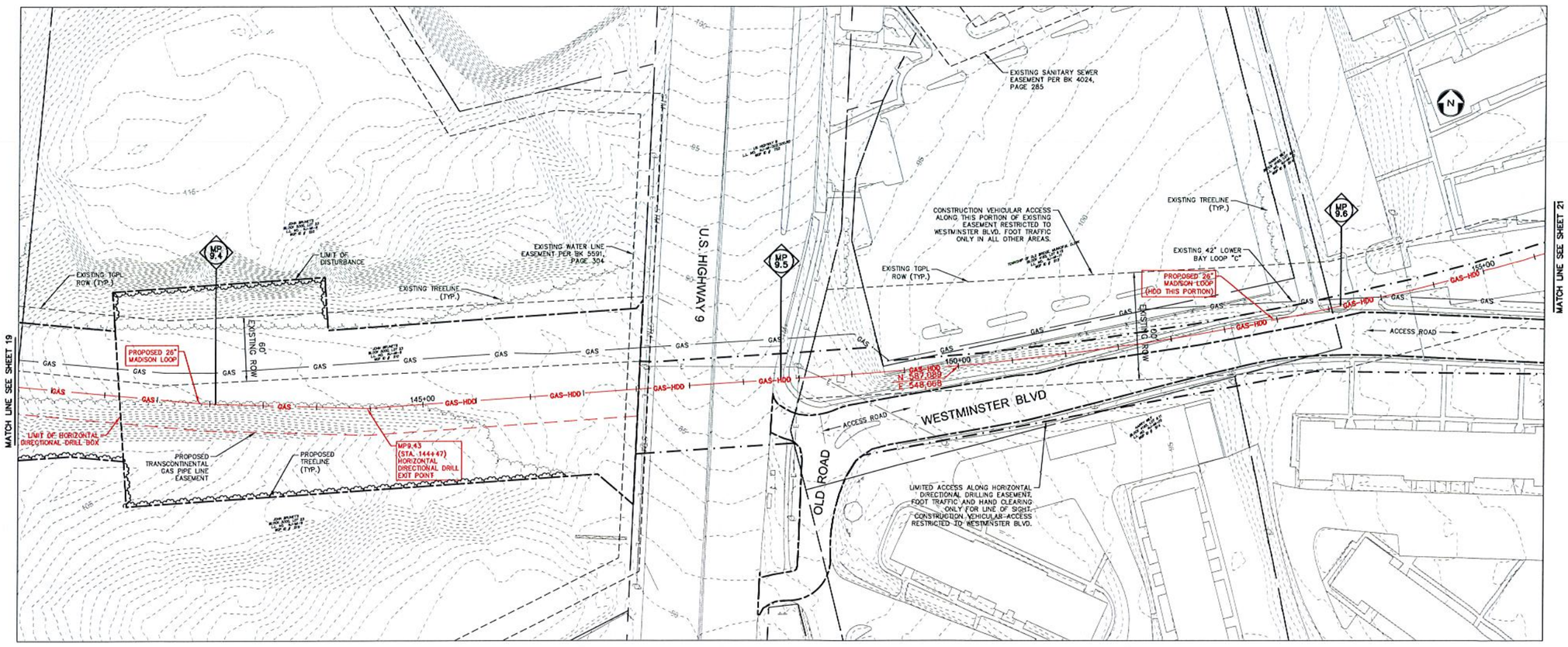
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 9.1 - MP 9.4

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 5 OF 20
SHEET NO.
5



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(h)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(h)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f)3)
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.768	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+43	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,539
WW-T07-003	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

NOTES:
1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
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- EXISTING TREE
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- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
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- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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PROFESSIONAL LAND SURVEYOR
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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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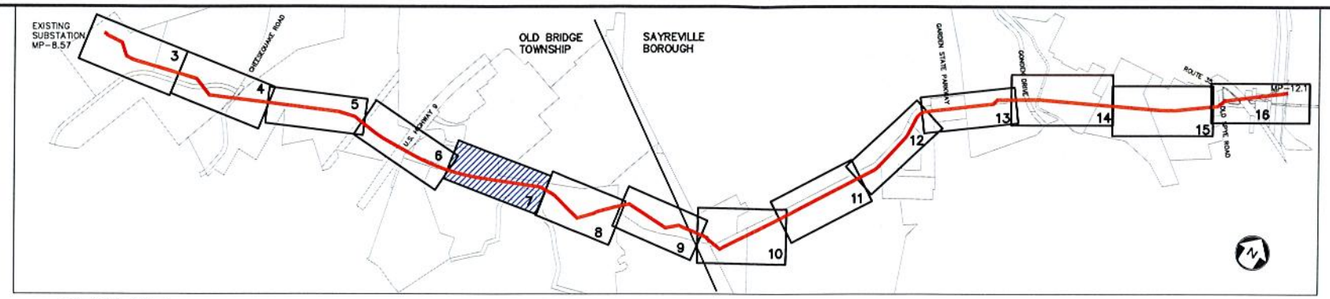
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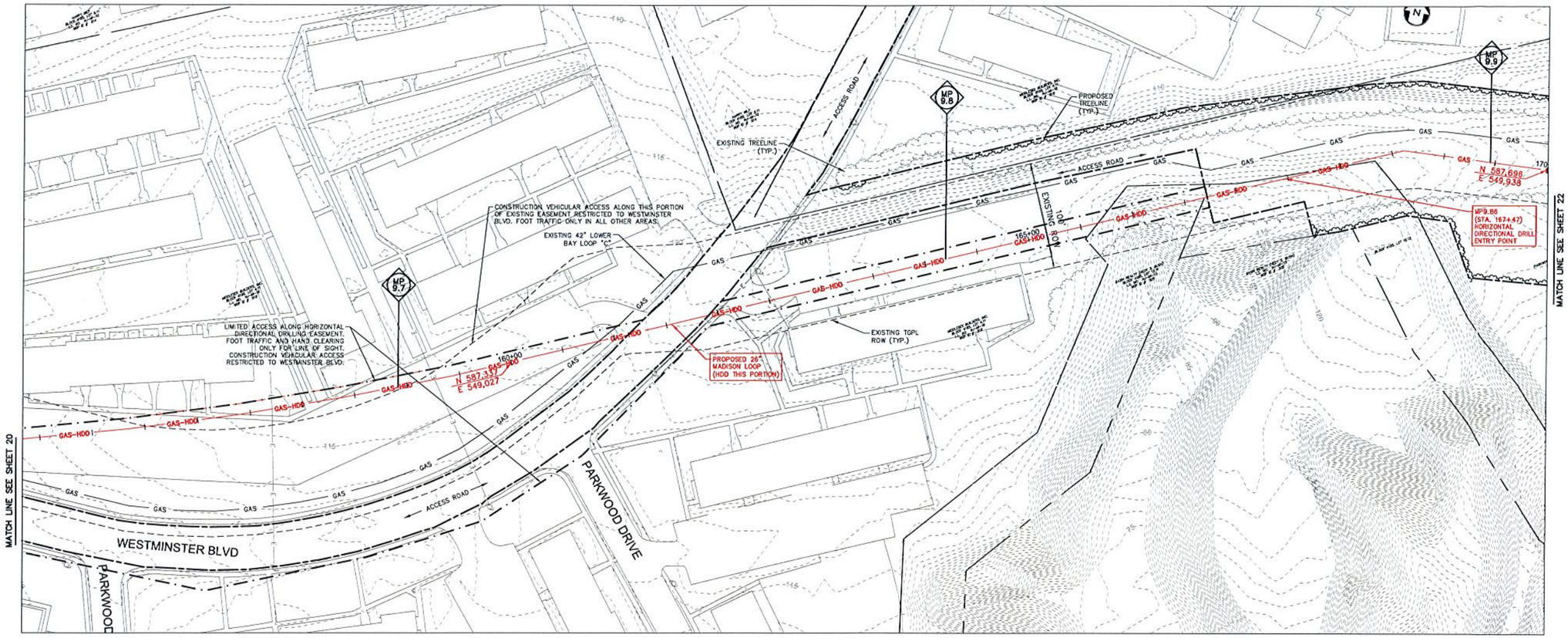
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 9.4 - MP 9.6

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 6 OF 41
SHEET NO.
6



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(f))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(f))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f)3)
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
WW-TC1-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,358	1,036	4,394	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-003B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,993
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WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 245+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	13,206	13,518	7,000	26,015	6,873	32,868	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

NOTES:

1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
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- EXISTING STORM SEWER
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6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
PS&S
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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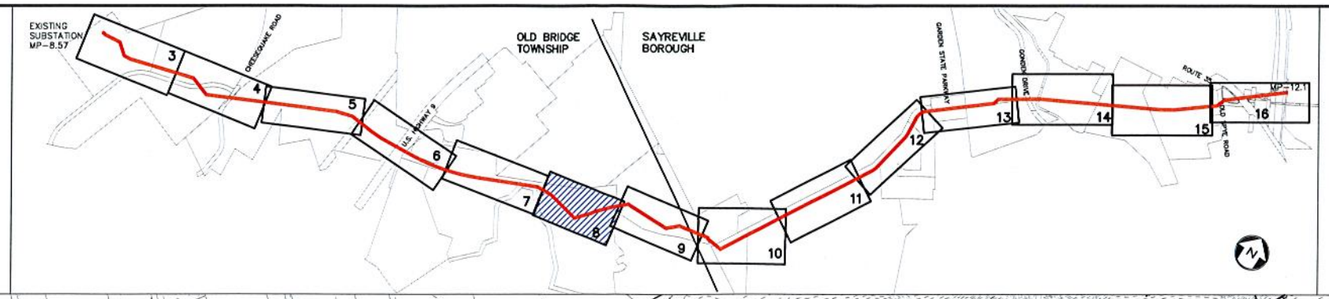
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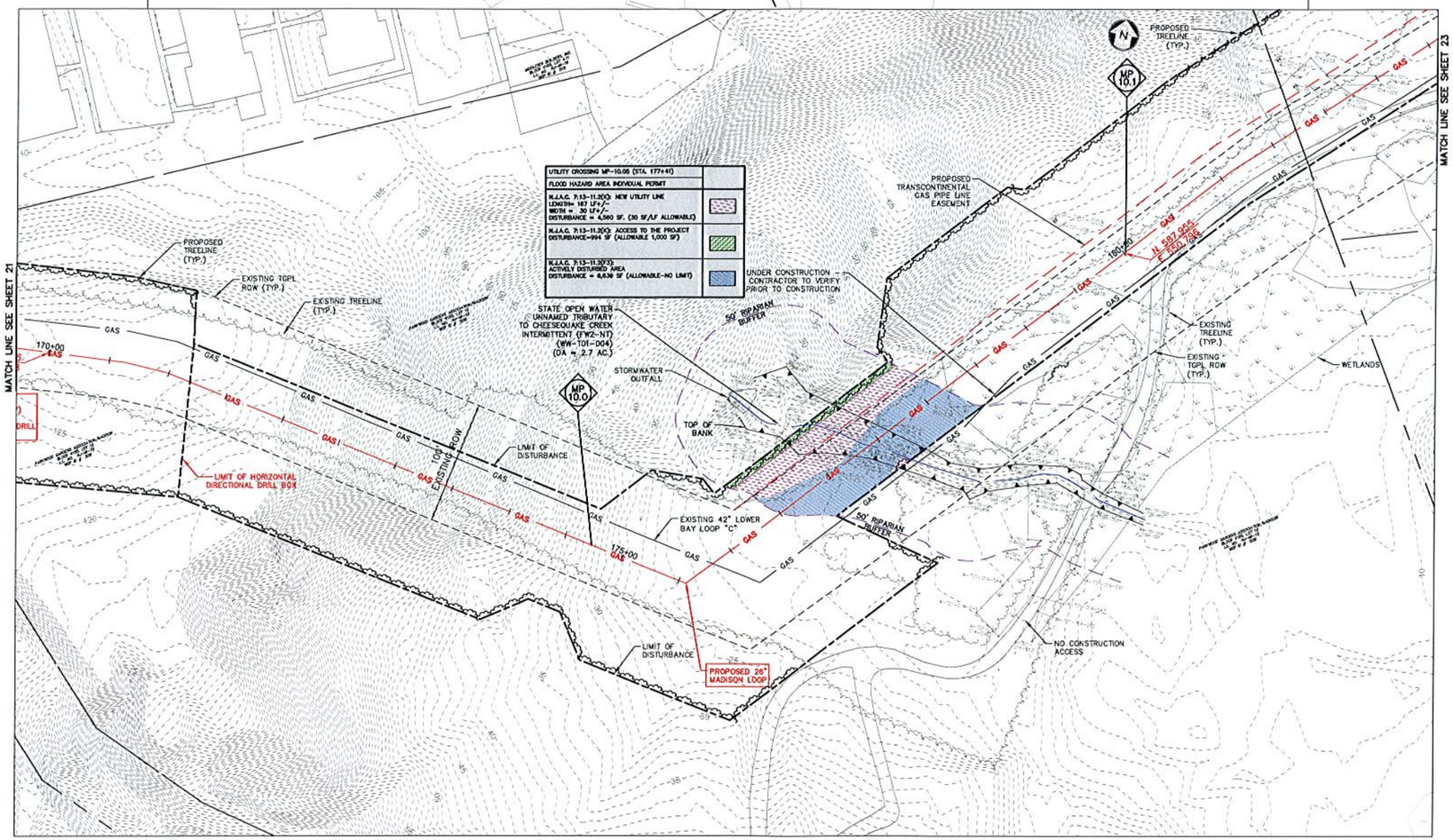
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 9.6 - MP 9.9

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 7 OF 20
SHEET NO. 7	



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(O)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(O)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(P)3)
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	SO FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	SO FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	SO FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	SO FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	SO FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	SO FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	SO FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	SO FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	8,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+84 - 249+78	SO FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. SEE DETAIL SHEETS 17-19 FOR METHOD OF STREAM CROSSING AND STREAM DIVERSION.
2. EXISTING 42" GAS MAIN CURRENTLY RELOCATED FROM STA. 175+84 TO STA. 189+22 AND FROM STA. 196+16 TO STA. 198+70. CONTRACTOR TO VERIFY FINAL LOCATION PRIOR TO CONSTRUCTION OF PROPOSED 26" GAS MAIN.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- 478 EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- W EXISTING WATER MAIN
- GAS EXISTING GAS MAIN
- GAS PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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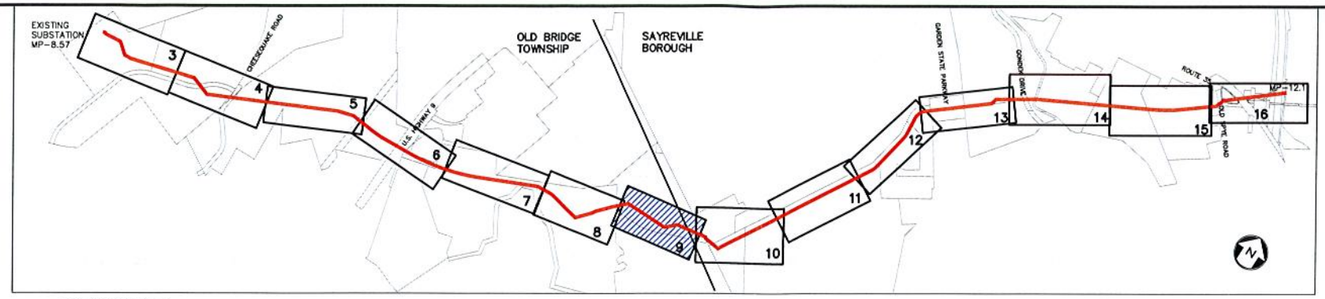
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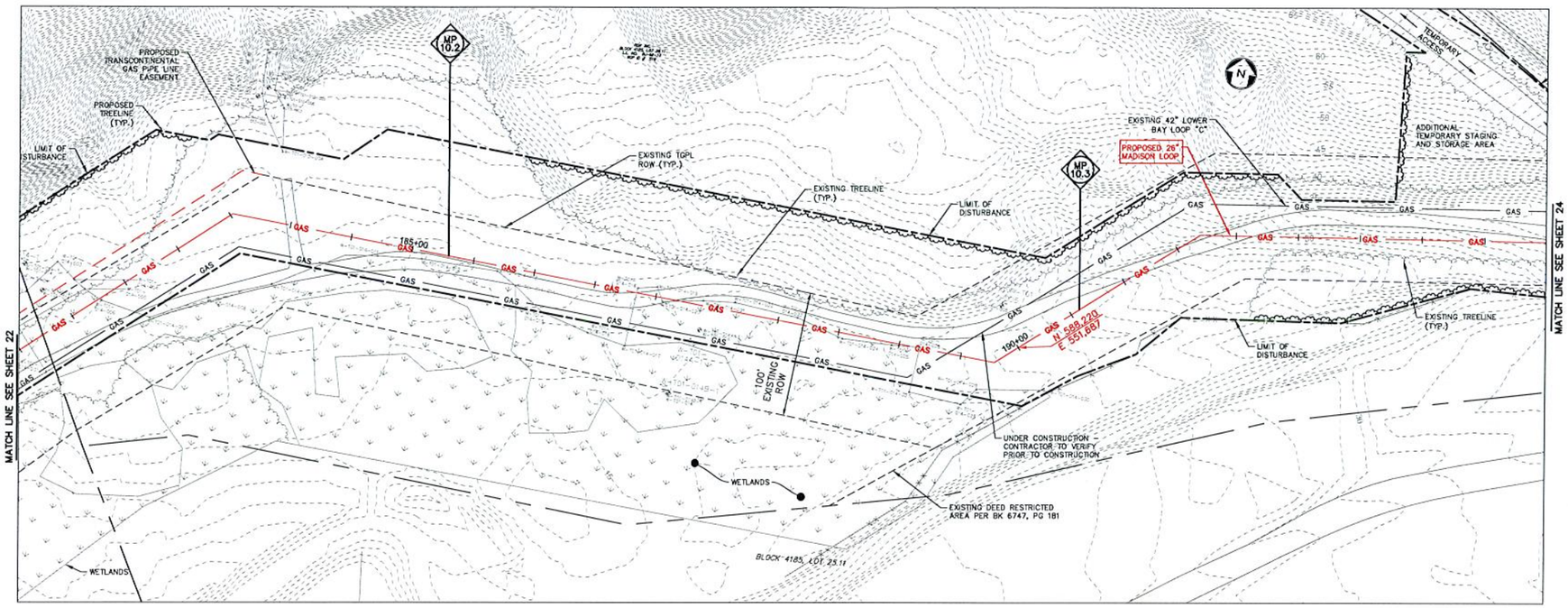
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 9.9 - MP 10.1

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 8 OF 20
SHEET NO.
8



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F)3)
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	9,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T01-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,013	6,873	32,868	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:

1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

REV./ ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
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- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
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- PROPOSED LIMIT OF DISTURBANCE
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- STREAM LINE
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- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
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- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

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PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

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SUITE A4
WALL, NJ 07727
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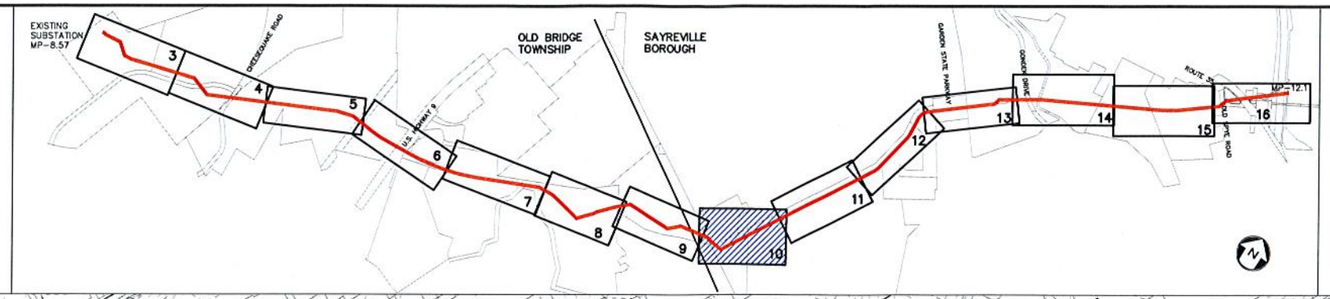
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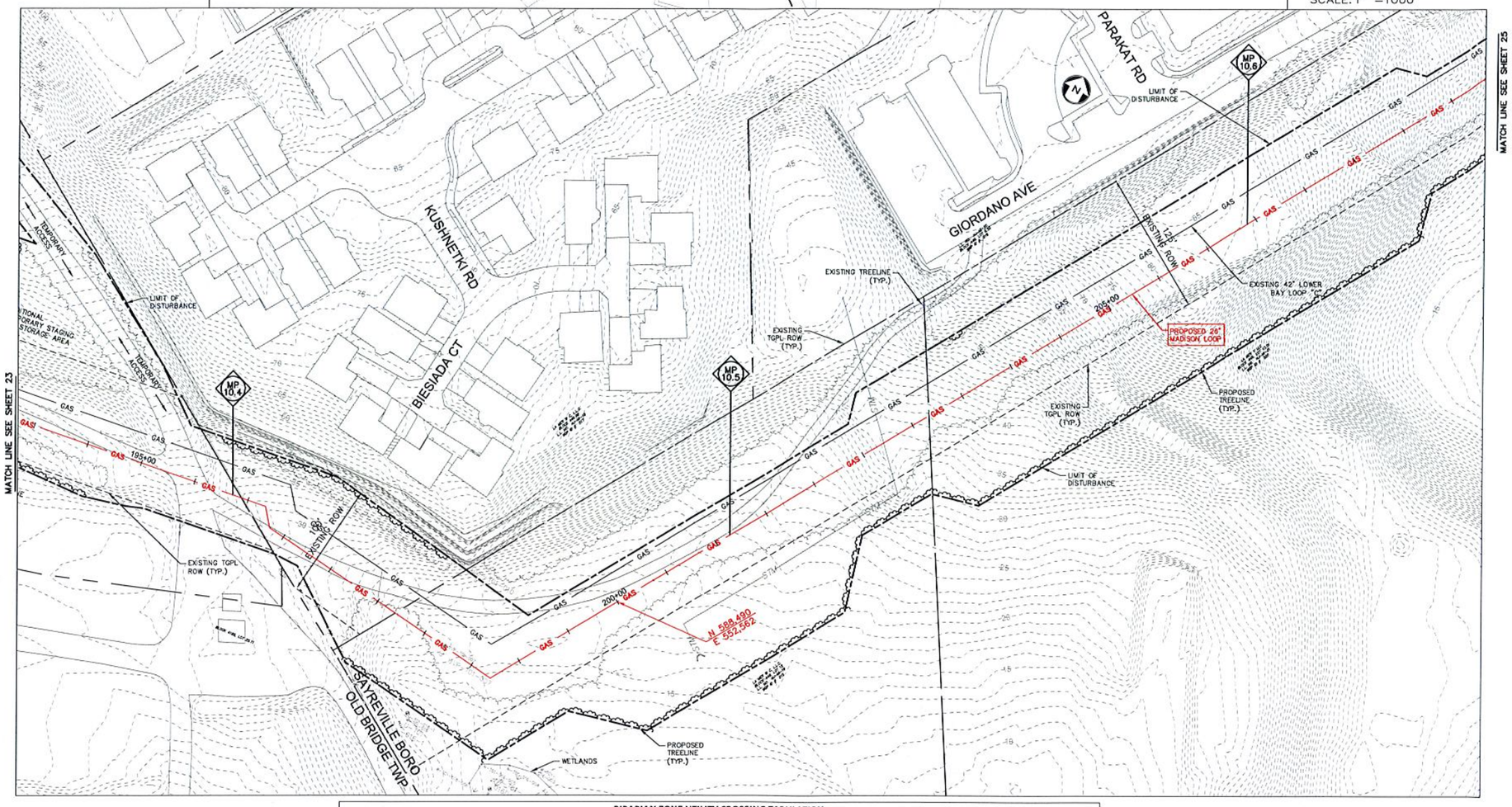
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 10.1 - MP 10.4

PROJECT NO.: 05731.0002		DRAWN BY:	JPS
SCALE:	1 = 50'	CHECKED BY:	WS
DATE:	06/08/18	SHEET	9 OF 20
SHEET NO.	9		



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(f))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(f))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f)3)
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
WW-T01-003 WW-T01-003A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+46	50 FT.	144	30	4,320	-	3,537	3,537	3,000	-	381	381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.764	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.768	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
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RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:

1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

REV./ ISSUE	DATE	DESCRIPTION

LEGEND
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- MEAN HIGH WATER LINE 500' BUFFER
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- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
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- 432 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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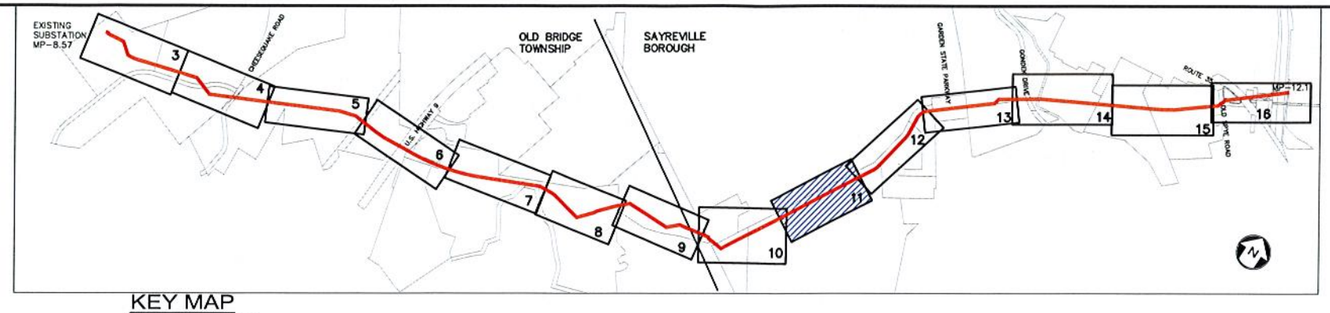
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

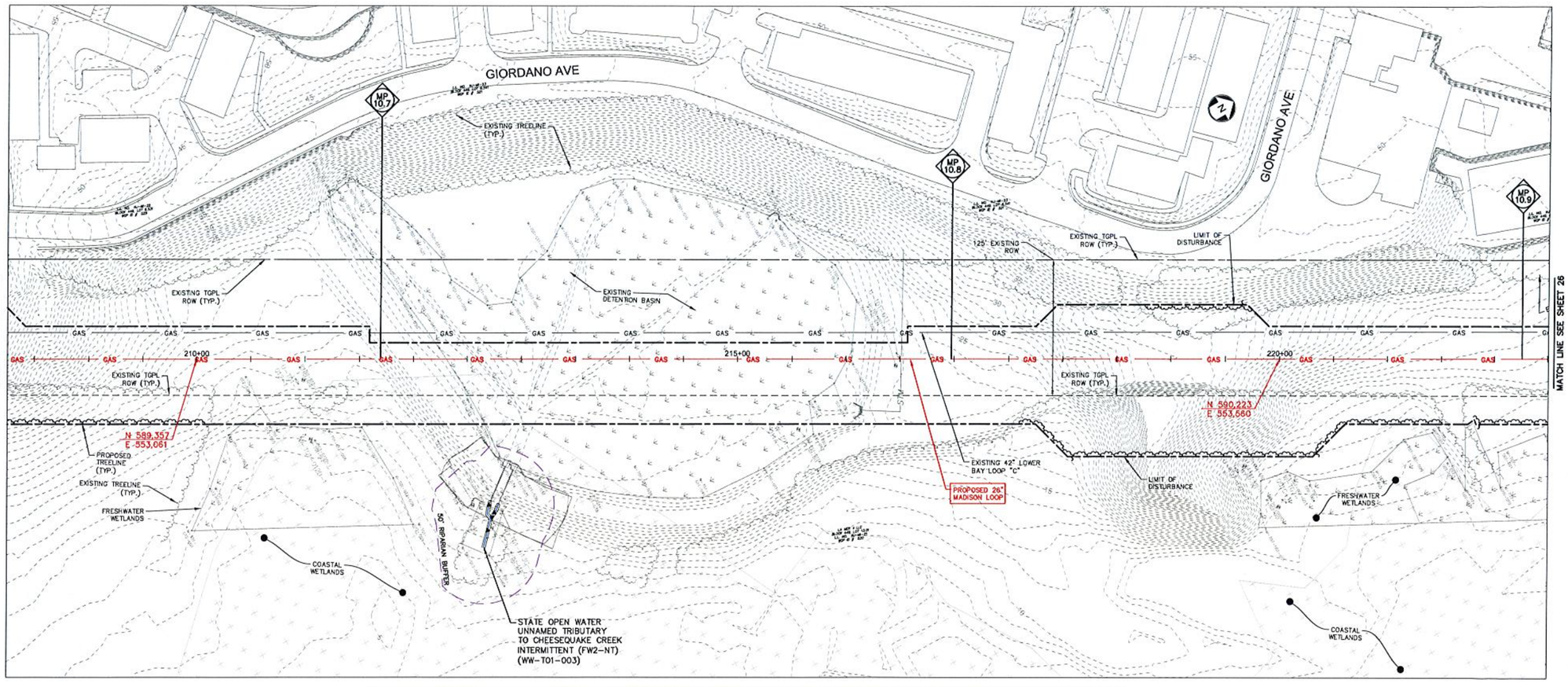
SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 10.4 - MP 10.6

PROJECT NO.: 05731.0002		DRAWN BY:	JPS
SCALE:	1 = 50'	CHECKED BY:	WS
DATE:	06/08/18	SHEET	10 OF 20

SHEET NO.
10



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F)3)
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,868	29,135

RIPARIAN ZONE LEGEND

- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

NOTES:

1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES WITHIN WORKSPACE ON THIS SHEET.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND

- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- 820 WETLAND FLAGS
- 433 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

SIGNATURE 6/8/18 DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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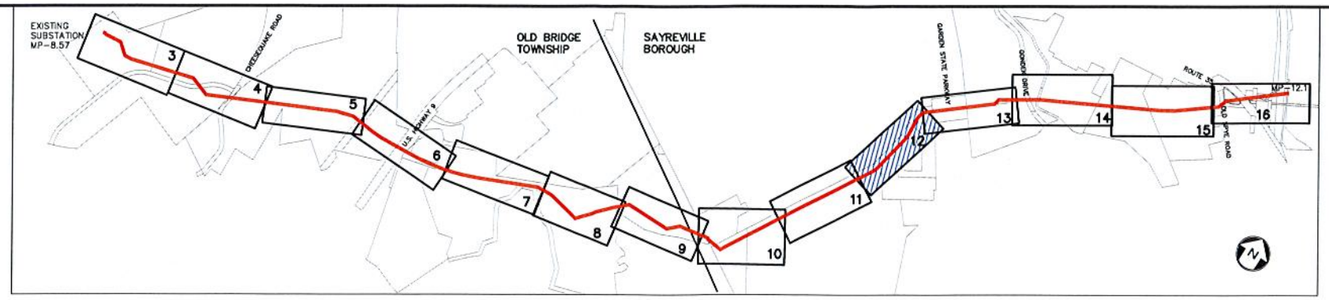
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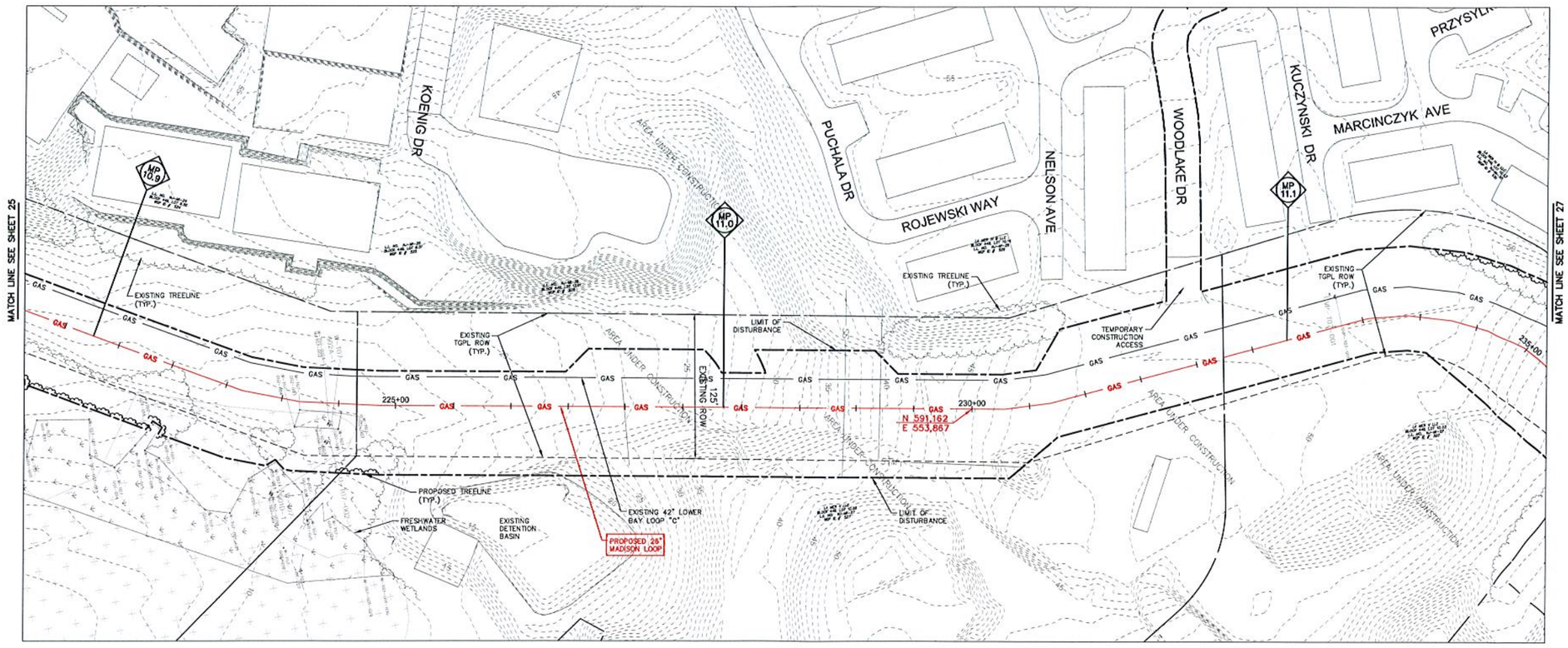
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 10.6 - MP 10.9

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 11 OF 20
SHEET NO. 11	



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(f))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(f))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f))
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
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WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+93	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
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WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

NOTES:
1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
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- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
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DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

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PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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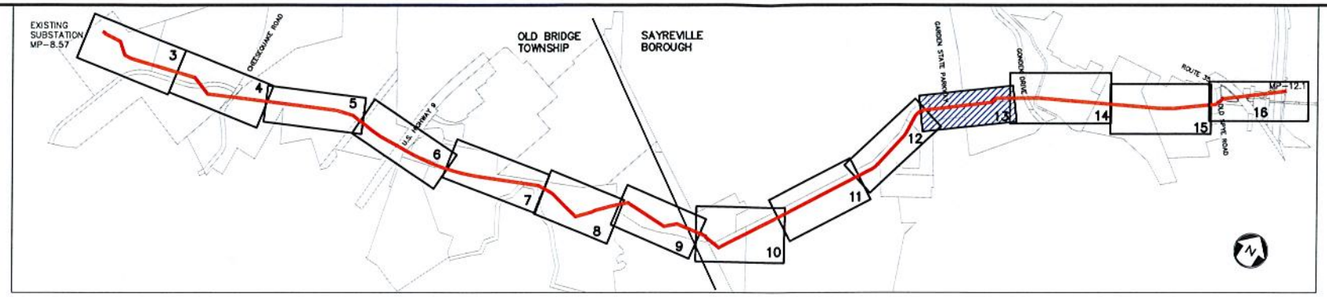
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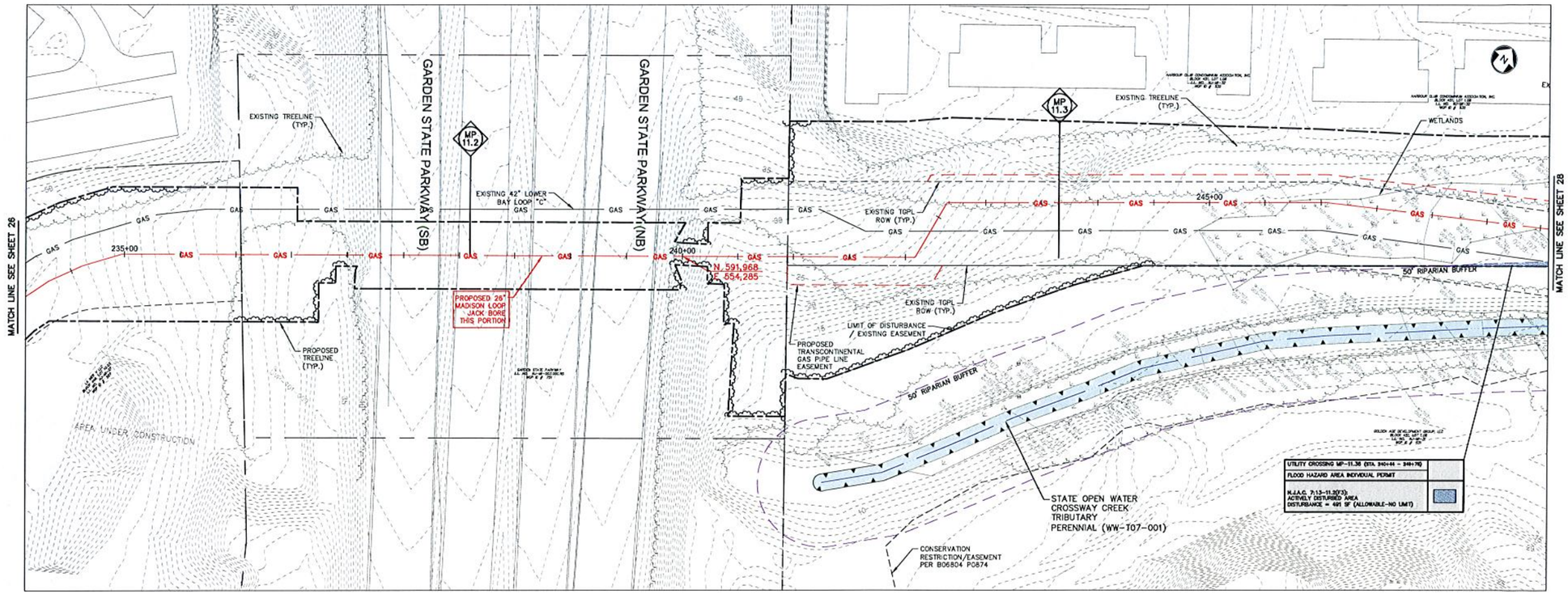
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
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MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 10.9 - MP 11.1

PROJECT NO.: 05731.0002 | DRAWN BY: JPS
SCALE: 1 = 50' | CHECKED BY: WS
DATE: 06/08/18 | SHEET 12 OF 20
SHEET NO.
12



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K))						ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K))				ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f)3)
					LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	
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TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
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(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
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- 620 WETLAND FLAGS
- 432 STATE OPEN WATERS FLAGS
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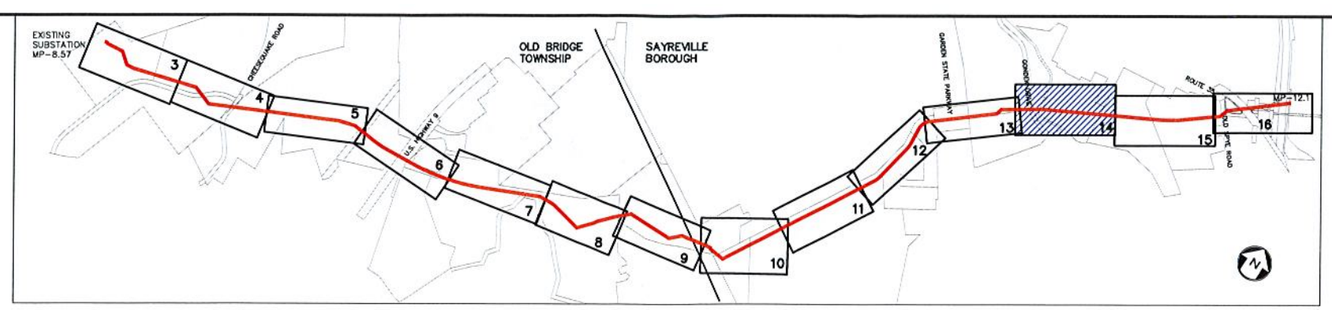
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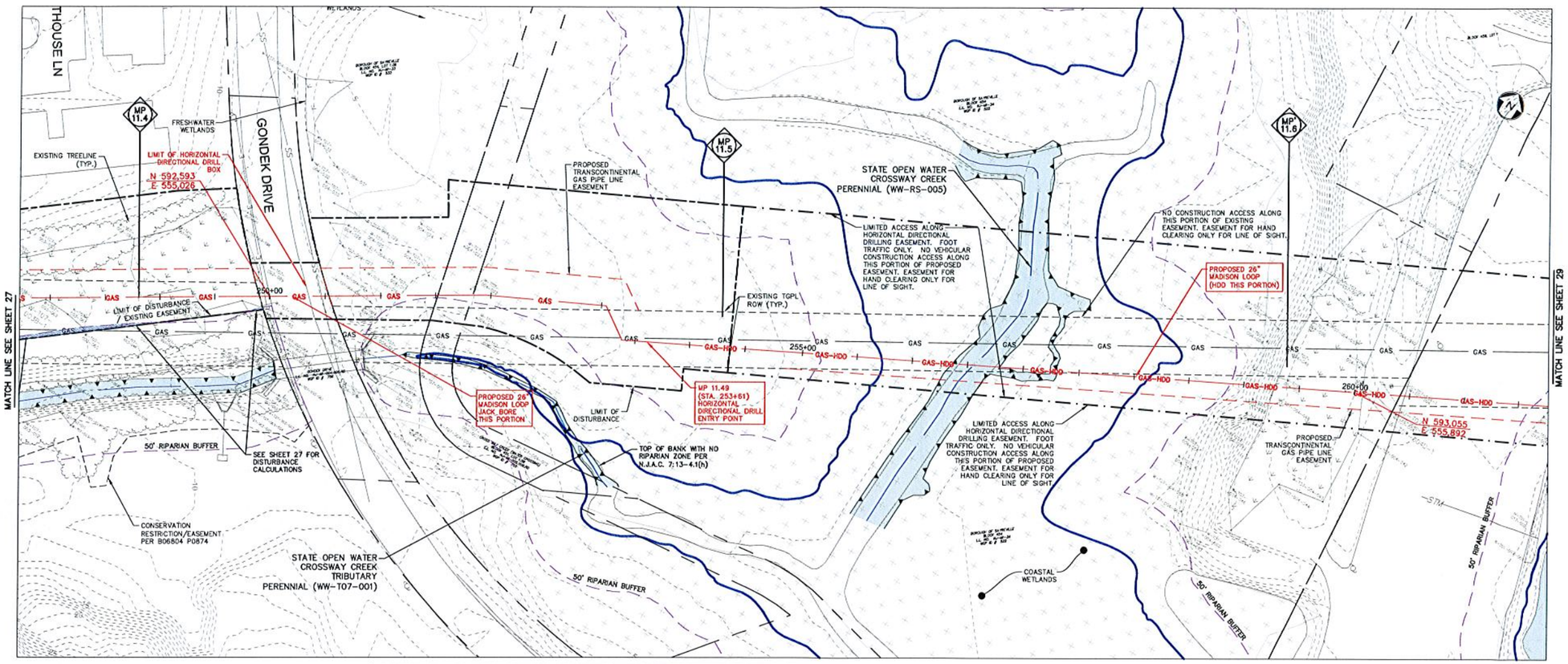
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 11.1 - MP 11.4

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 13 OF 20
SHEET NO.	13



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(h)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(h)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(f)(3))
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	101+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,035	4,194	2,926
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	90,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,891
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,868	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
- EXISTING UTILITY POLE
- PROPOSED GAS VALVE
- EXISTING TREELINE/CANOPY
- EXISTING TREE
- PROPOSED TREELINE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING PERMANENT EASEMENT/TGPL R.O.W.
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- A-820 WETLAND FLAGS
- A-832 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400

SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700

6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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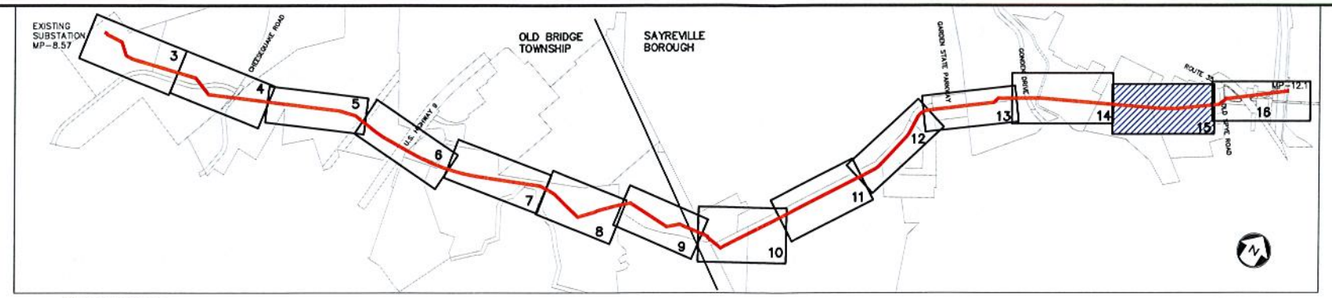
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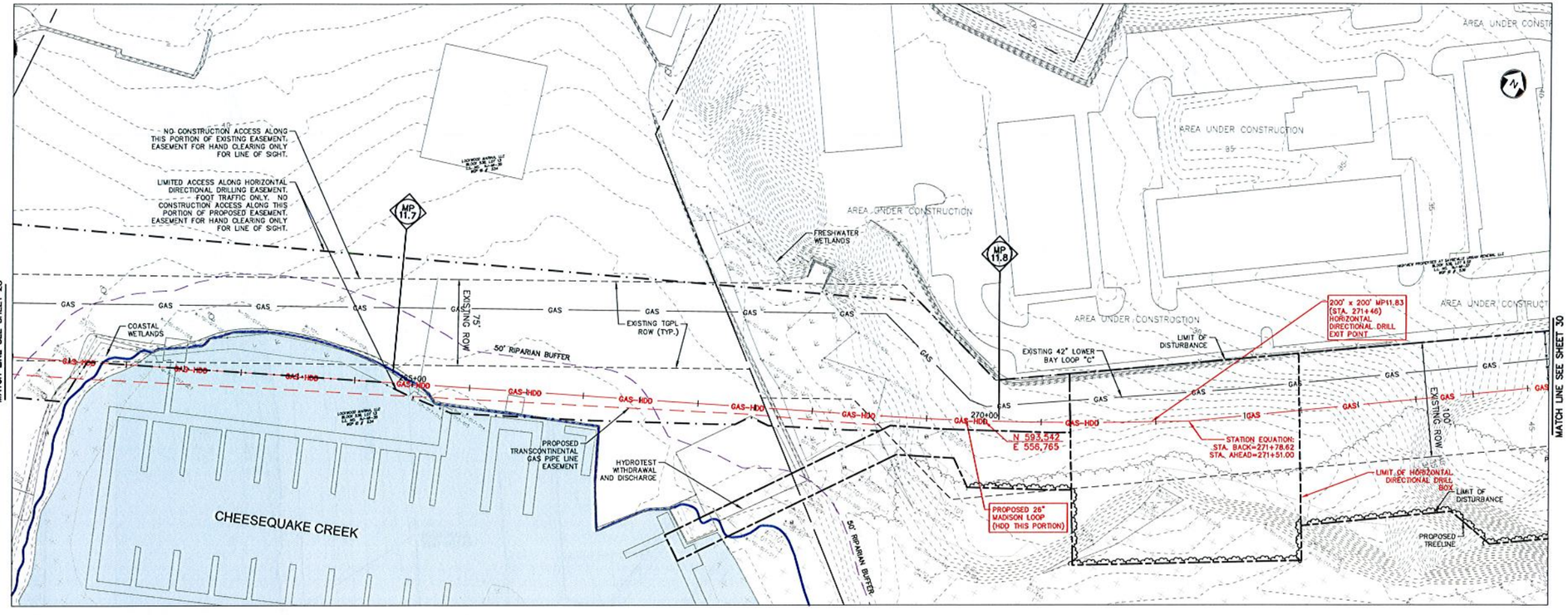
PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 11.4 - MP 11.6

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 14 OF 20
SHEET NO. 14	



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(H)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTURBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(H)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F)(3))
WW-T01-003 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.65 & 8.62	301+48	50 FT.	144	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 193+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 193+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,091
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-003	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+44 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,888	29,185

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

NOTES:
1. NO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV./ ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
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- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HDD LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- COASTAL WETLANDS BOUNDARY
- TOP OF BANK
- 50' WETLAND TRANSITION AREA
- RIPARIAN BUFFER
- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- 920 WETLAND FLAGS
- 432 STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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THOMAS J. MURPHY, PLS
DW SMITH ASSOCIATES, LLC
1450 STATE ROUTE 34, WALL, NJ 07753
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 37207 COA NO. 24GA28122400
SIGNATURE DATE

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WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41319 COA NO. 24GA28032700
6/8/18
SIGNATURE DATE

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34
SUITE A4
WALL, NJ 07727
PHONE: (848) 206-2626
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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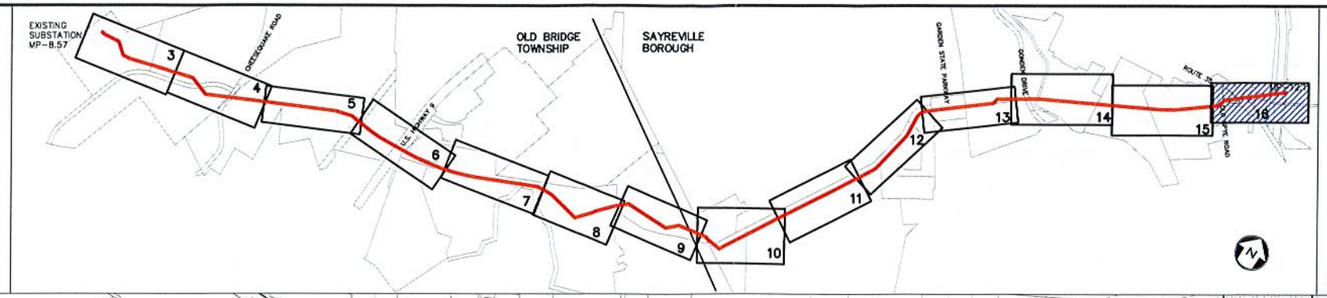
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

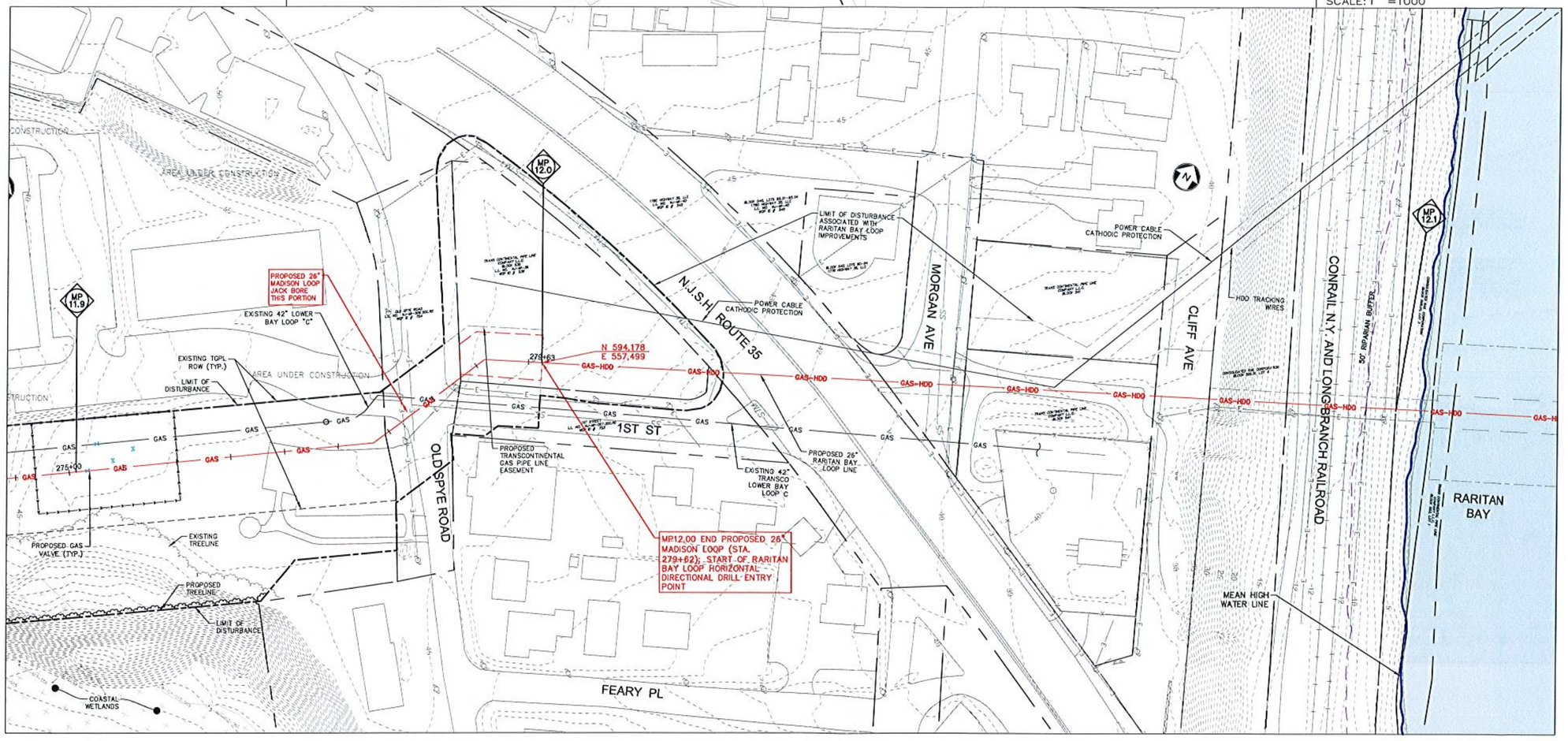
SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 11.6 - MP 11.9

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 15 OF 20

SHEET NO.
15



KEY MAP
SCALE: 1" =1000'



RIPARIAN ZONE UTILITY CROSSING TABULATION

WATERCOURSE ID	WATERCOURSE NAME	MILEPOST	STATION	RIPARIAN ZONE RESOURCE VALUE	NEW UTILITY LINE (N.J.A.C. 7:13-11.2(K)) LENGTH (FT.)	WIDTH (FT.)	ALLOWABLE DISTURBANCE (S.F.)	TEMPORARY PROPOSED DISTURBANCE (S.F.)	PERMANENT PROPOSED DISTRUBANCE (S.F.)	TOTAL PROPOSED DISTURBANCE (S.F.)	ACCESS TO PROJECT (N.J.A.C. 7:13-11.2(K)) ALLOWABLE (S.F.)	TEMPORARY DISTURBANCE (S.F.)	PERMANENT DISTURBANCE (S.F.)	TOTAL DISTURBANCE (S.F.)	ACTIVELY DISTURBED AREA (S.F.) (N.J.A.C. 7:13-11.2(F)3)
WW-T01-001 WW-T01-001A	UNNAMED TRIBUTARY TO TENNENT BROOK	8.61 & 8.62	102+48	50 FT.	148	30	4,320	-	3,537	3,537	1,000	-	3,381	3,381	3,465
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.70	106+24	50 FT.	121	30	3,630	-	1,341	1,341	-	-	-	-	7,633
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76	109+18	50 FT.	138	30	4,140	-	4,080	4,080	1,000	3,158	1,036	4,194	2,916
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76A	-	50 FT.	-	-	-	-	-	-	1,000	3,341	-	3,341	-
WW-T01-002B	UNNAMED TRIBUTARY TO TENNENT BROOK	8.76B	-	50 FT.	-	-	-	-	-	-	1,000	8,413	-	8,413	-
WW-T15-004B	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	10,109	748	10,857	-
WW-T15-005	UNNAMED TRIBUTARY TO TENNENT BROOK	9.26	APPROX. 135+33	50 FT.	-	-	-	-	-	-	1,000	0	1,708	1,708	7,991
WW-T01-004	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	10.05	177+41	50 FT.	167	30	5,010	2,312	2,248	4,560	1,000	994	-	994	6,639
WW-T07-001	UNNAMED TRIBUTARY TO CHEESEQUAKE CREEK	11.36	240+64 - 249+78	50 FT.	-	-	-	-	-	-	-	-	-	-	491
TOTAL							17,100	2,312	11,206	13,518	7,000	26,015	6,873	32,868	29,135

RIPARIAN ZONE LEGEND
- ACTIVELY DISTURBED AREA
- ACCESS TO THE PROJECT DISTURBANCE
- NEW UTILITY LINE DISTURBANCE

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

NOTES:
1. NO DISTURBANCE TO NJDEP FLOOD HAZARD AREA REGULATED FEATURES ON THIS SHEET.
2. ALL WORK AND ACCESS WITHIN PUBLIC (OR PRIVATE) RIGHTS OF WAY, INCLUDING RAILROAD, SHALL BE IN ACCORDANCE WITH APPROPRIATE OCCUPANCY PERMITS.

REV./ ISSUE	DATE	DESCRIPTION

LEGEND
- PROPERTY LINE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- EXISTING STORM SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING SIGN
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- 50' WETLAND TRANSITION AREA
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- MEAN HIGH WATER LINE
- SPRING HIGH WATER LINE
- MEAN HIGH WATER LINE 500' BUFFER
- TIDELANDS
- W-T01-005A-1 PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- 1609 FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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6/8/18
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PROJECT
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED
26" MADISON LOOP
OLD BRIDGE TOWNSHIP & SAYREVILLE BOROUGH
MIDDLESEX COUNTY, NEW JERSEY

SHEET TITLE
RIPARIAN ZONE PERMIT PLAN
MP 11.9 - RARITAN BAY

PROJECT NO.: 05731.0002	DRAWN BY: JPS
SCALE: 1 = 50'	CHECKED BY: WS
DATE: 06/08/18	SHEET 16 OF 20

SHEET NO. 16