



**TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC**

**SECTION 8  
RIPARIAN ZONE PERMIT PLAN CITATION**

**PLANS ENTITLED:**

NJDEP LAND USE PERMIT PLANS  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
COMPRESSOR STATION 206 -TRAP ROCK ACCESS ROAD (ALTERNATE ACCESS ROAD)  
(FULL PLAN SET INCLUDING FRESHWATER WETLANDS PERMIT PLANS, FLOOD HAZARD AREA  
PLANS & RELATED DETAILS)

**PREPARED BY:**

WILLIAM SALMON, PE  
PS&S  
WALL, NJ

**PLANS DATED:**

JANUARY 15, 2020 (DATED BY SIGNATURE)

**NORTHEAST SUPPLY ENHANCEMENT PROJECT**

**January 2020**

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# NJDEP LAND USE PERMIT PLANS

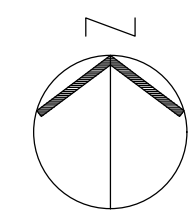
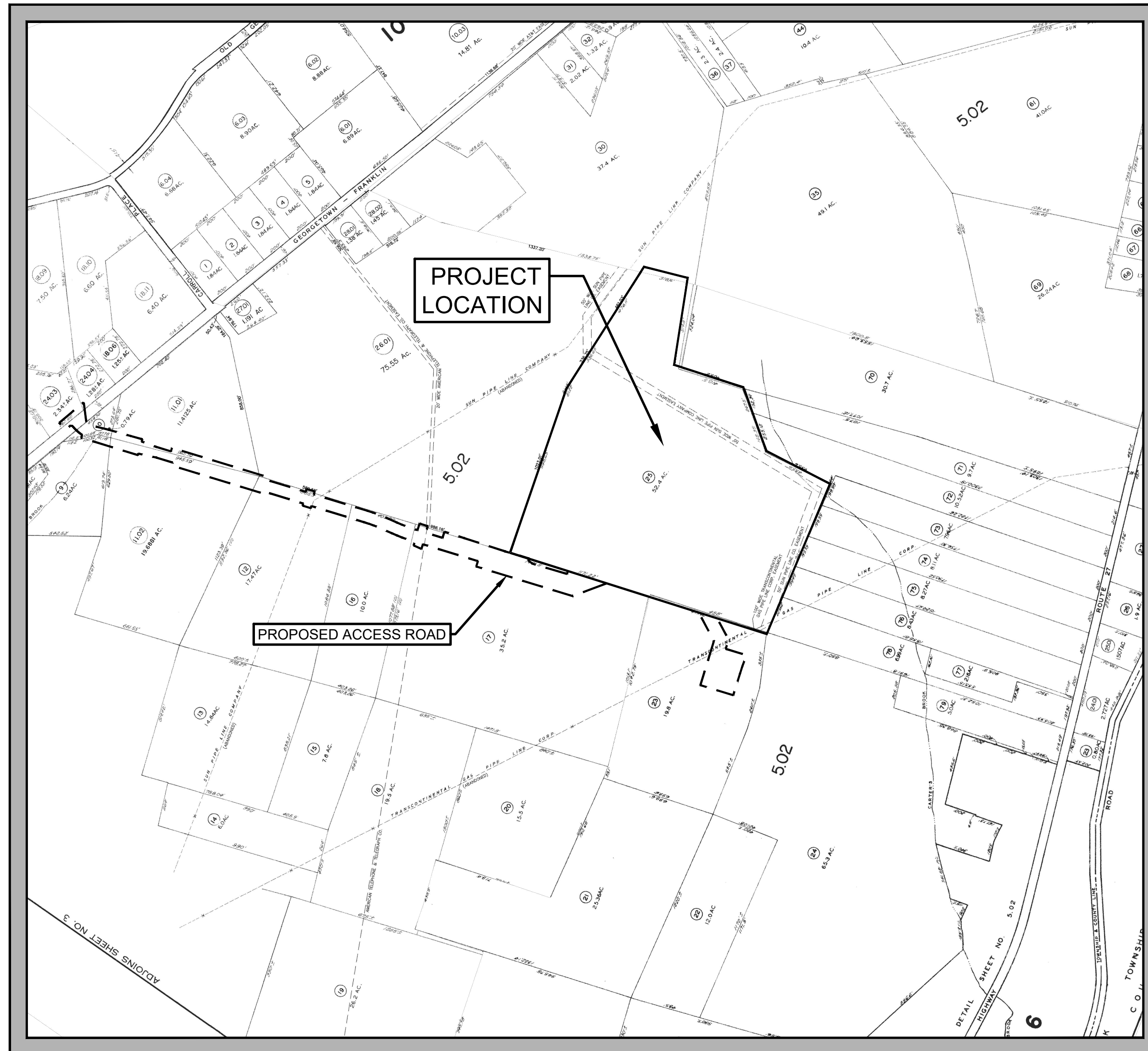
## FOR THE

# NORTHEAST SUPPLY ENHANCEMENT PROJECT

## COMPRESSOR STATION 206 - TRAP ROCK ACCESS ROAD (ALTERNATE ACCESS ROAD)

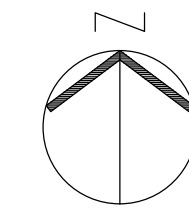
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC

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
6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS



### KEY MAP

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



### 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	01/15/2020
2	OVERALL SITE PLAN AND GENERAL NOTES	6/8/2018	01/15/2020
3	WETLAND PERMIT PLAN	6/8/2018	01/15/2020
4	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	6/8/2018	01/15/2020
5	FLOOD HAZARD AREA VERIFICATION AND WETLAND PERMIT PLAN	6/8/2018	01/15/2020
6	RIPIARIAN ZONE PERMIT PLAN	6/8/2018	01/15/2020
7	ACCESS ROADWAY PROFILE	6/8/2018	01/15/2020
8	CONSTRUCTION DETAILS	6/8/2018	01/15/2020
9	CONSTRUCTION DETAILS	6/8/2018	01/15/2020

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES 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

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. 41318 COA NO. 24GA28032700

*[Signature]* 01/15/20  
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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PROJECT  
**NORTHEAST SUPPLY  
ENHANCEMENT PROJECT  
PROPOSED  
COMPRESSOR STATION 206**

BLOCK 5.02 LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 FORMERLY 231 & 232 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

# FRESHWATER WETLANDS AND FLOOD HAZARD AREA PLANS



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.

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 COMPRESSOR STATION 206 AND ASSOCIATED IMPROVEMENTS IN FRANKLIN TOWNSHIP, SOMERSET COUNTY AS PART OF THE NORTHEAST SUPPLY ENHANCEMENT PROJECT.

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.

- 1. 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.

FLOOD HAZARD AREA METES AND BOUNDS table with columns: Line #, Length, Direction, START, END. Contains 24 rows of boundary data.

FLOOD HAZARD AREA METES AND BOUNDS table with columns: Line #, Length, Direction, START, END. Contains 24 rows of boundary data.

FLOOD HAZARD AREA METES AND BOUNDS table with columns: Line #, Length, Direction, START, END. Contains 24 rows of boundary data.

RIPARIAN ZONE LEGEND table with symbols for Roadway Access Area, Access to the Project Disturbance, and New Utility Line Disturbance.

WETLAND LEGEND table with symbols for various wetland types: Palustrine Emergent (PEM), Palustrine Emergent Disturbed (PED), Palustrine Forested (PFO), etc.

OWNER / APPLICANT

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

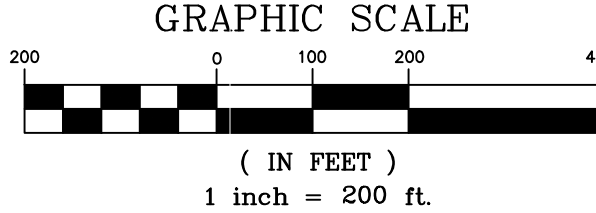
Revision/Issue table with columns: REV./ ISSUE, DATE, DESCRIPTION. Contains 8 entries of revisions.

LEGEND table with symbols for PROPERTY LINE, EXISTING SPOUR, EXISTING POINT ELEVATION, PROPOSED CONTOURS, EXISTING STORM SEWER, EXISTING ELECTRIC SEWER, etc.

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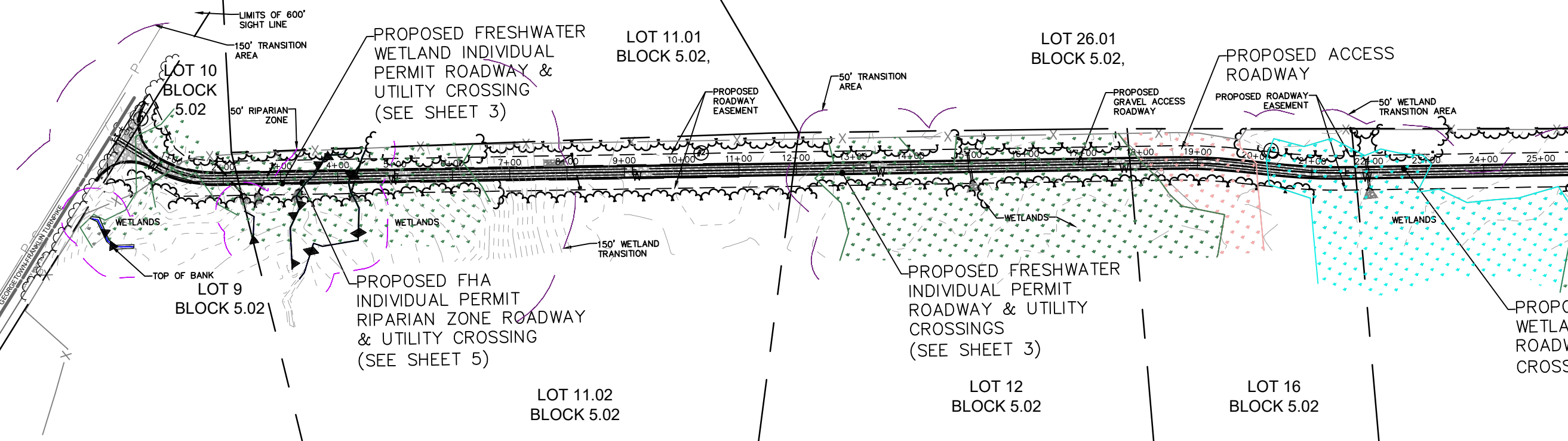
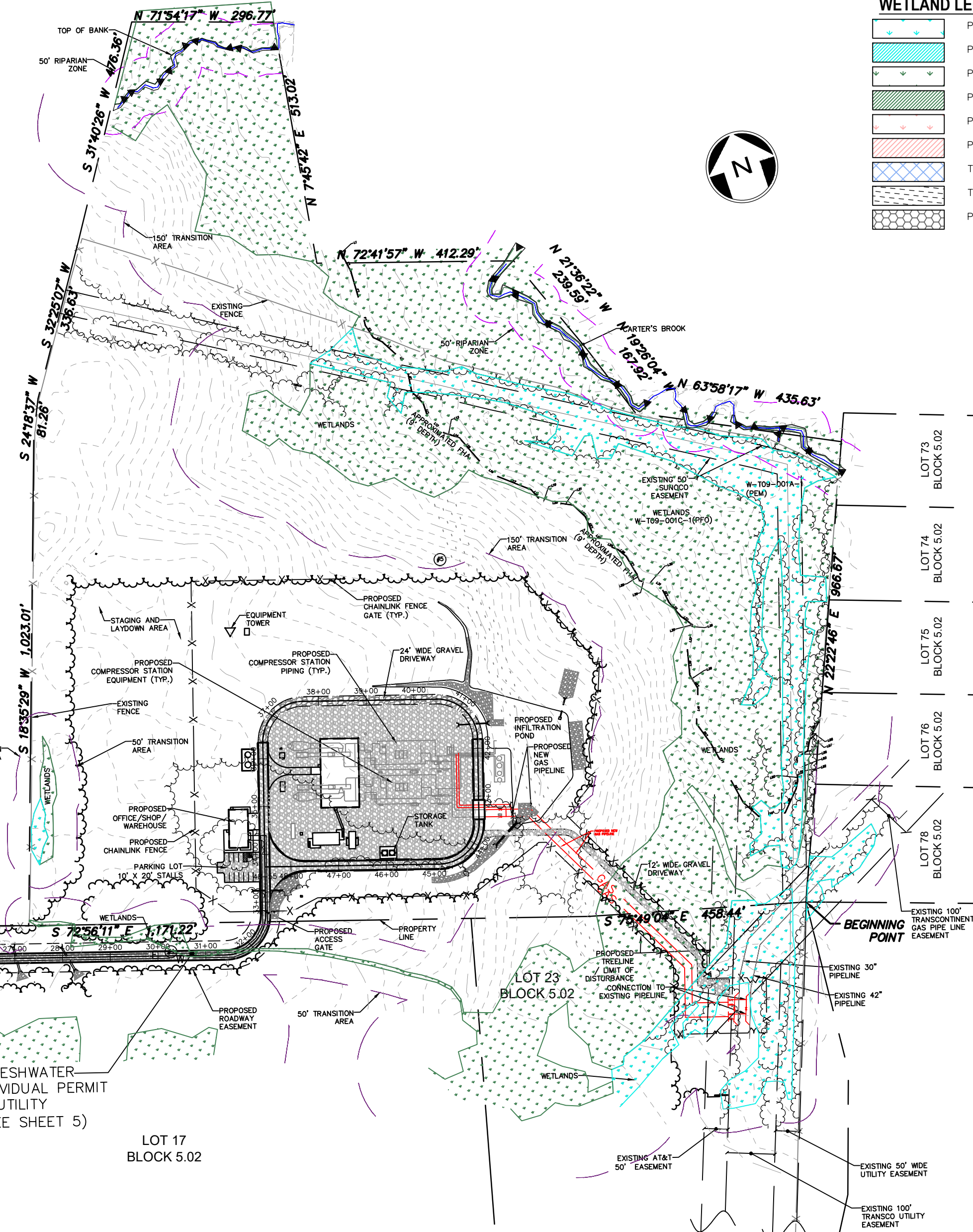
THOMAS J. MURPHY, PLS DW SMITH ASSOCIATES, LLC 1450 STATE ROUTE 34, WALL, NJ 07753 PROFESSIONAL LAND SURVEYOR

Signature and date line for Paulus, Sokolowski and Sartor, LLC.



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.



PS&S 1433 ROUTE 34 SUITE A4 WALL, NJ 07727 PHONE: (848) 206-2626

CERTIFICATE OF AUTHORIZATION NO. 246A28032700

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PROJECT NORTHEAST SUPPLY ENHANCEMENT PROJECT PROPOSED COMPRESSOR STATION 206

BLOCK 5.02 LOTS 1.02, 1.02 FORMERLY 9, 10, 12, 16 & 17; 11.02, 20 FORMERLY 23 & 25 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE

OVERALL SITE PLAN AND GENERAL NOTES

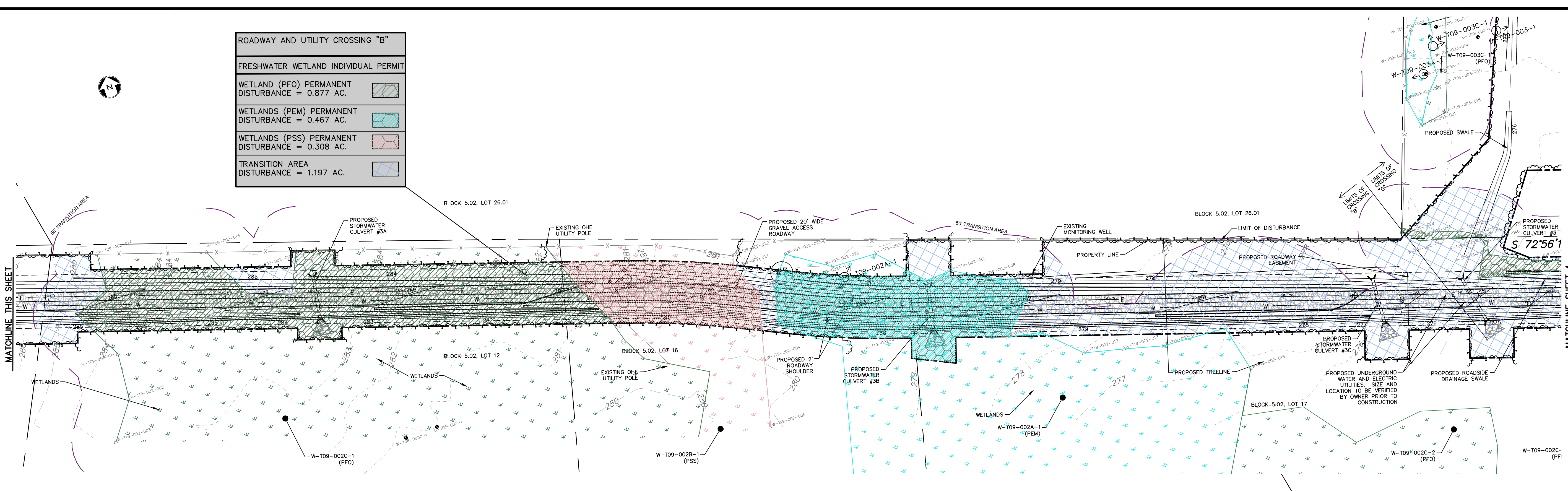
PROJECT NO.: 05731.0003 DRAWN BY: JPS SCALE: 1 = 200' CHECKED BY: WS DATE: 06-08-2018 SHEET 2 OF 9 SHEET NO. 2



**ROADWAY AND UTILITY CROSSING "B"**

**FRESHWATER WETLAND INDIVIDUAL PERMIT**

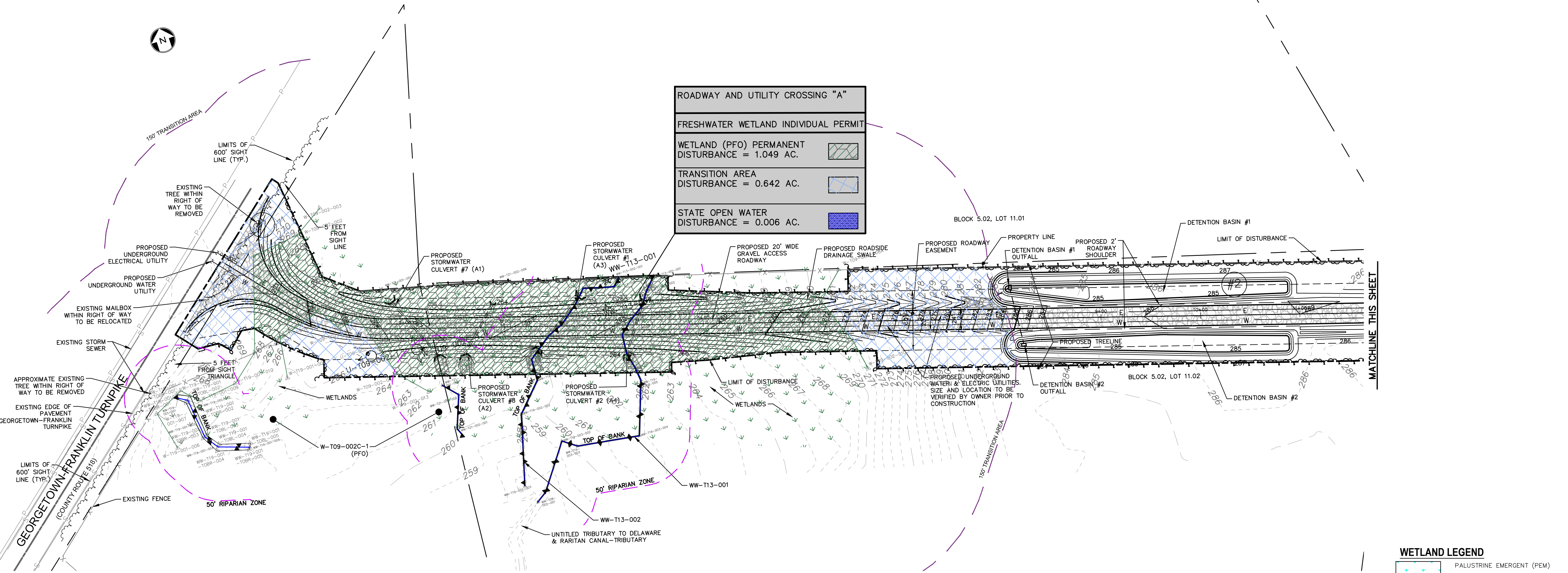
WETLAND (PFO) PERMANENT DISTURBANCE = 0.877 AC.	
WETLANDS (PEM) PERMANENT DISTURBANCE = 0.467 AC.	
WETLANDS (PSS) PERMANENT DISTURBANCE = 0.308 AC.	
TRANSITION AREA DISTURBANCE = 1.197 AC.	



**ROADWAY AND UTILITY CROSSING "A"**

**FRESHWATER WETLAND INDIVIDUAL PERMIT**

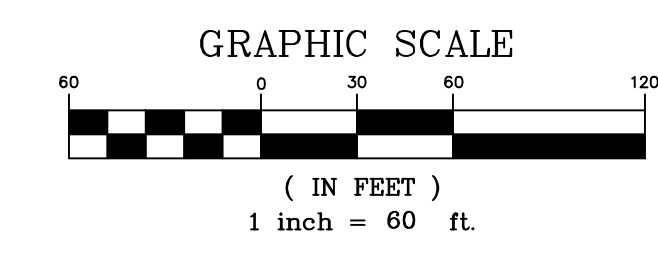
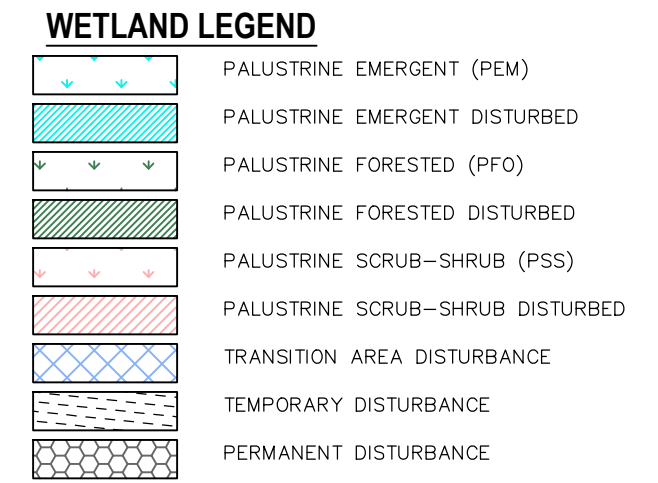
WETLAND (PFO) PERMANENT DISTURBANCE = 1.049 AC.	
TRANSITION AREA DISTURBANCE = 0.642 AC.	
STATE OPEN WATER DISTURBANCE = 0.006 AC.	



**WETLAND UTILITY CROSSING TABULATION**

STATION	WETLAND ID	PALUSTRINE EMERGENT (PEM) WETLANDS (ACRES)		PALUSTRINE FORESTED (PFO) WETLANDS (ACRES)		PALUSTRINE SCRUB-SHRUB (PSS) WETLANDS (ACRES)		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	0.006
ROADWAY AND UTILITY CROSSING "B"	W-T09-002C-1				0.877					
	W-T09-002B-1		0.467				0.308		1.197	
ROADWAY CROSSING "C"	W-T09-002C-1				0.158					
	W-T09-002C-2							0.938		
	W-T09-002C-3									
UTILITY CROSSING "D"	W-T09-001C-1				0.538				0.449	0.487
	W-T09-001A-1	0.149	0.314							
<b>TOTAL</b>		<b>0.149</b>	<b>0.781</b>	<b>0.000</b>	<b>2.622</b>	<b>0.000</b>	<b>0.308</b>	<b>0.449</b>	<b>3.264</b>	<b>0.006</b>

- NOTES:**
- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
  - SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.



REV. / ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NJDEP COMMENTS
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4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE
6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS

**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 NJHADP
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAG
- STATE OPEN WATERS FLAGS
- STATE PLANE COORDINATES
- 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**  
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 1450 STATE ROUTE 34, WALL, NJ 07753  
 PROFESSIONAL LAND SURVEYOR  
 N.J. LIC. NO. 37207 COA NO. 24GA2812400

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 PROFESSIONAL ENGINEER  
 N.J. LIC. NO. 41318 COA NO. 24GA28032700

**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 5.02 LOTS 1, 2, 10, 12, 16 & 17, 11.02, 20 FORMERLY 231 & 26 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**



REV. / ISSUE	DATE	DESCRIPTION
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8	01/15/20	GENERAL REVISIONS

**LEGEND**

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- 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 N.F.H.A.D.
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- STATE PLANE COORDINATES
- FRESHWATER WETLAND/STATE OPEN WATER DATA POINTS

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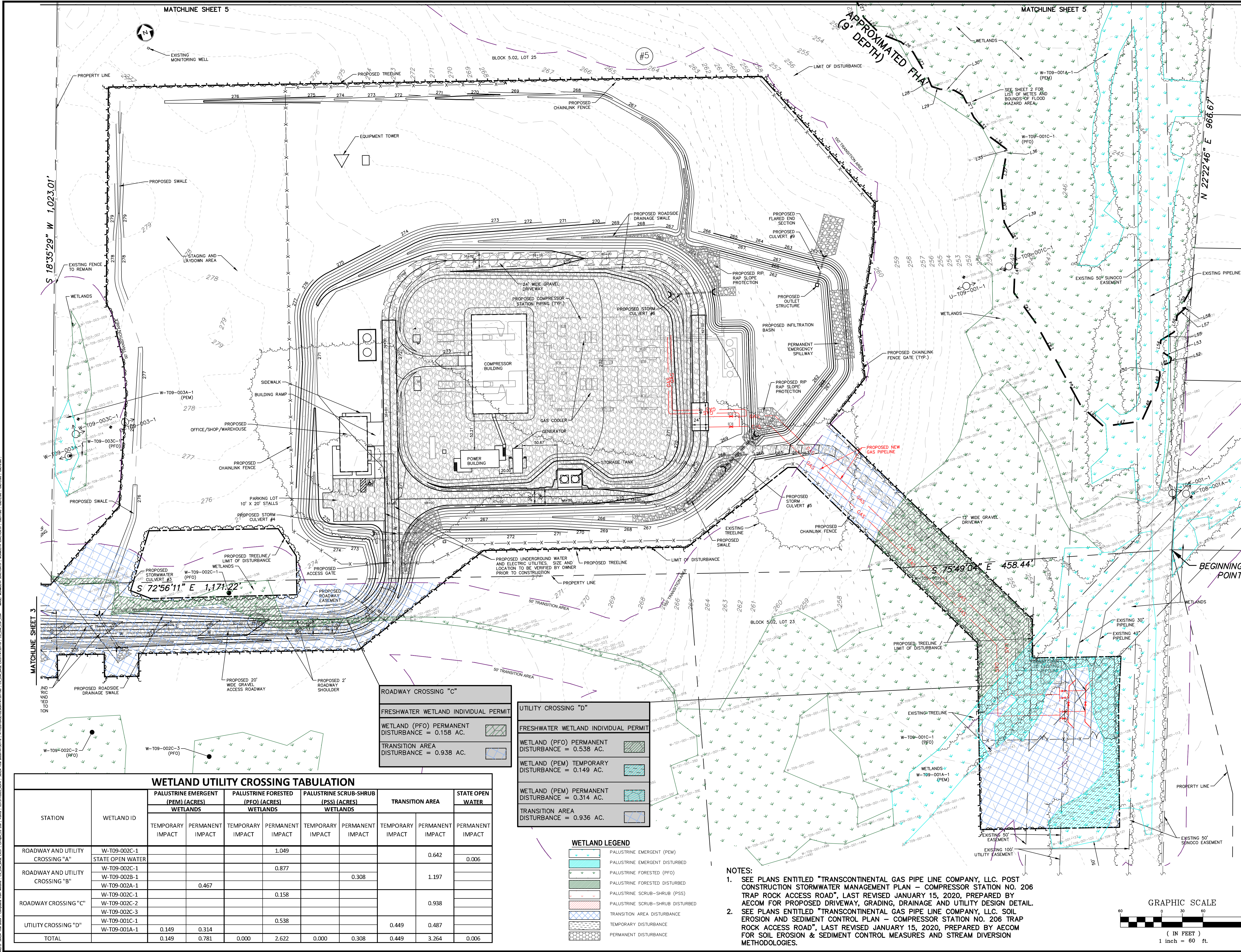
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**PROJECT**  
 NORTHEAST SUPPLY  
 ENHANCEMENT PROJECT  
 PROPOSED  
 COMPRESSOR STATION 206

BLOCK 5.02, LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 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**



**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 = 0.936 AC.	

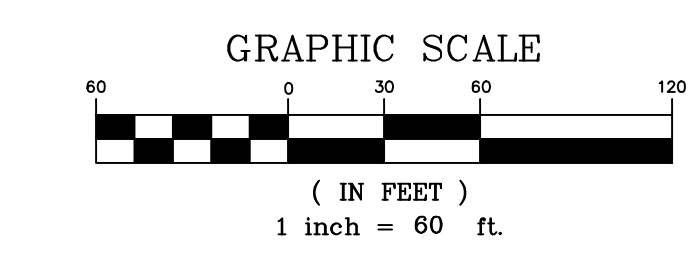
**WETLAND UTILITY CROSSING TABULATION**

STATION	WETLAND ID	PALUSTRINE EMERGENT (PEM) WETLANDS (ACRES)		PALUSTRINE FORESTED (PFO) WETLANDS (ACRES)		PALUSTRINE SCRUB-SHRUB (PSS) WETLANDS (ACRES)		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	0.006
ROADWAY AND UTILITY CROSSING "B"	W-T09-002C-1				0.877					
	W-T09-002B-1		0.467				0.308		1.197	
ROADWAY CROSSING "C"	W-T09-002C-1				0.158					
	W-T09-002C-2								0.938	
	W-T09-002C-3									
UTILITY CROSSING "D"	W-T09-001C-1		0.314		0.538			0.449	0.487	
	W-T09-001A-1	0.149	0.314							
TOTAL		0.149	0.781	0.000	2.622	0.000	0.308	0.449	3.264	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:**
- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
  - SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.





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
6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS

LEGEND	
---	PROPERTY LINE
- - - -	EXISTING CONTOURS
427.0	EXISTING SPOT ELEVATION
X	PROPOSED CONTOURS
S	EXISTING STORM SEWER
P	EXISTING ELECTRIC SEWER
W	EXISTING WATER MAIN
Gas	EXISTING GAS MAIN
Gas	PROPOSED SUCTION AND DISCHARGE PIPING
U	EXISTING UTILITY POLE
Tree	EXISTING TREELINE/CANOPY
Tree	EXISTING TREE
Tree	PROPOSED TREELINE
X-X	EXISTING FENCE
X-X	PROPOSED FENCE
---	EXISTING PERMANENT EASEMENT
---	PROPOSED PERMANENT EASEMENT
---	PROPOSED LIMIT OF DISTURBANCE
---	STREAM LINE
---	WETLANDS BOUNDARY
▲	TOP OF BANK
---	RIPARIAN BUFFER
---	APPROXIMATE NJFHADF
U-T09-002-1	PHOTO LOCATION (SEE REPORT)
▲	WETLAND FLAGS
▲	STATE OPEN WATERS FLAGS
PS	STATE PLANE COORDINATES
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

**WILLIAM SALMON, P.E.**  
 PS&S, LLC  
 1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727  
 PROFESSIONAL ENGINEER  
 N.J. LIC. NO. 41318 COA NO. 24GA28032700

**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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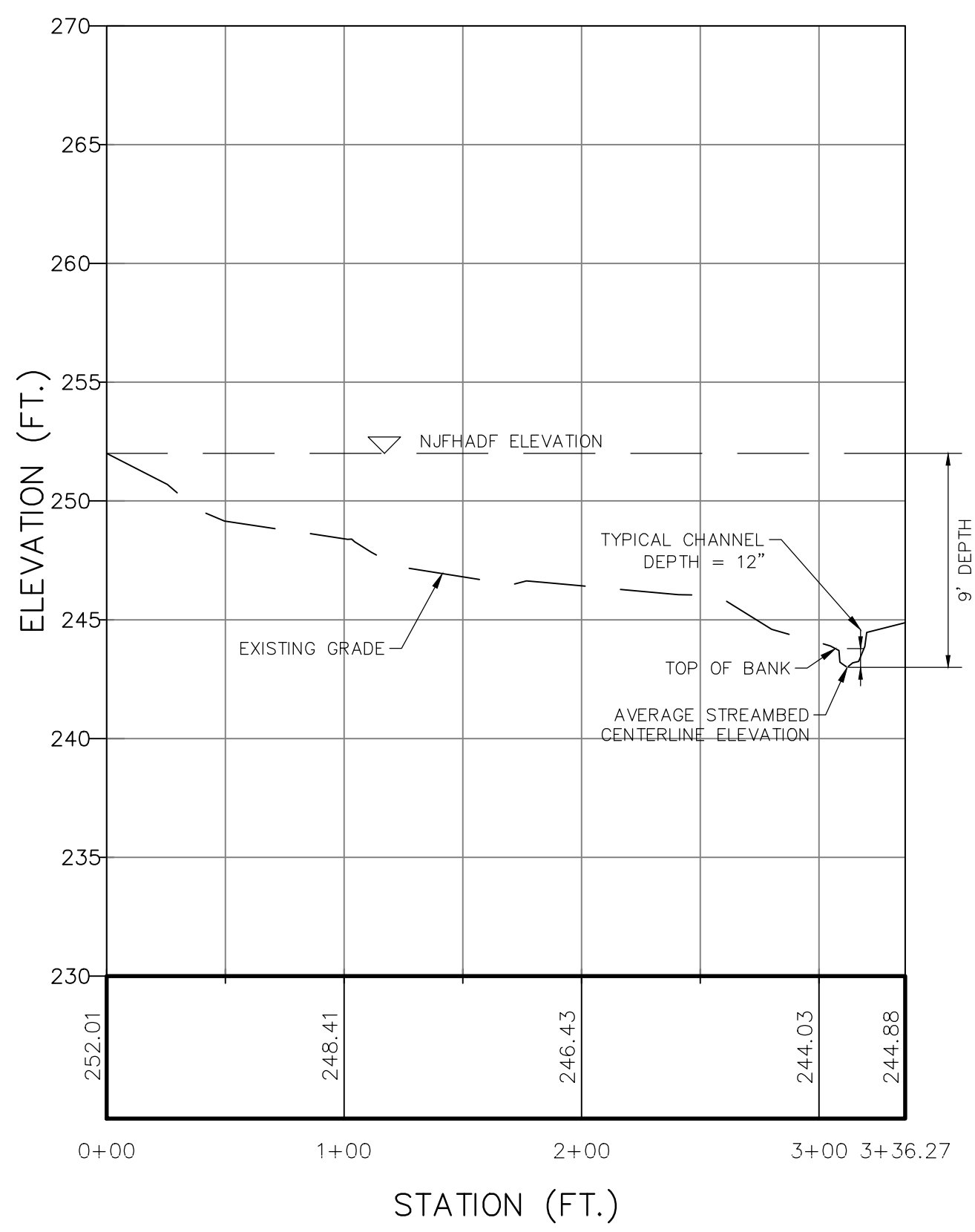
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PROJECT  
**NORTHEAST SUPPLY ENHANCEMENT PROJECT PROPOSED COMPRESSOR STATION 206**

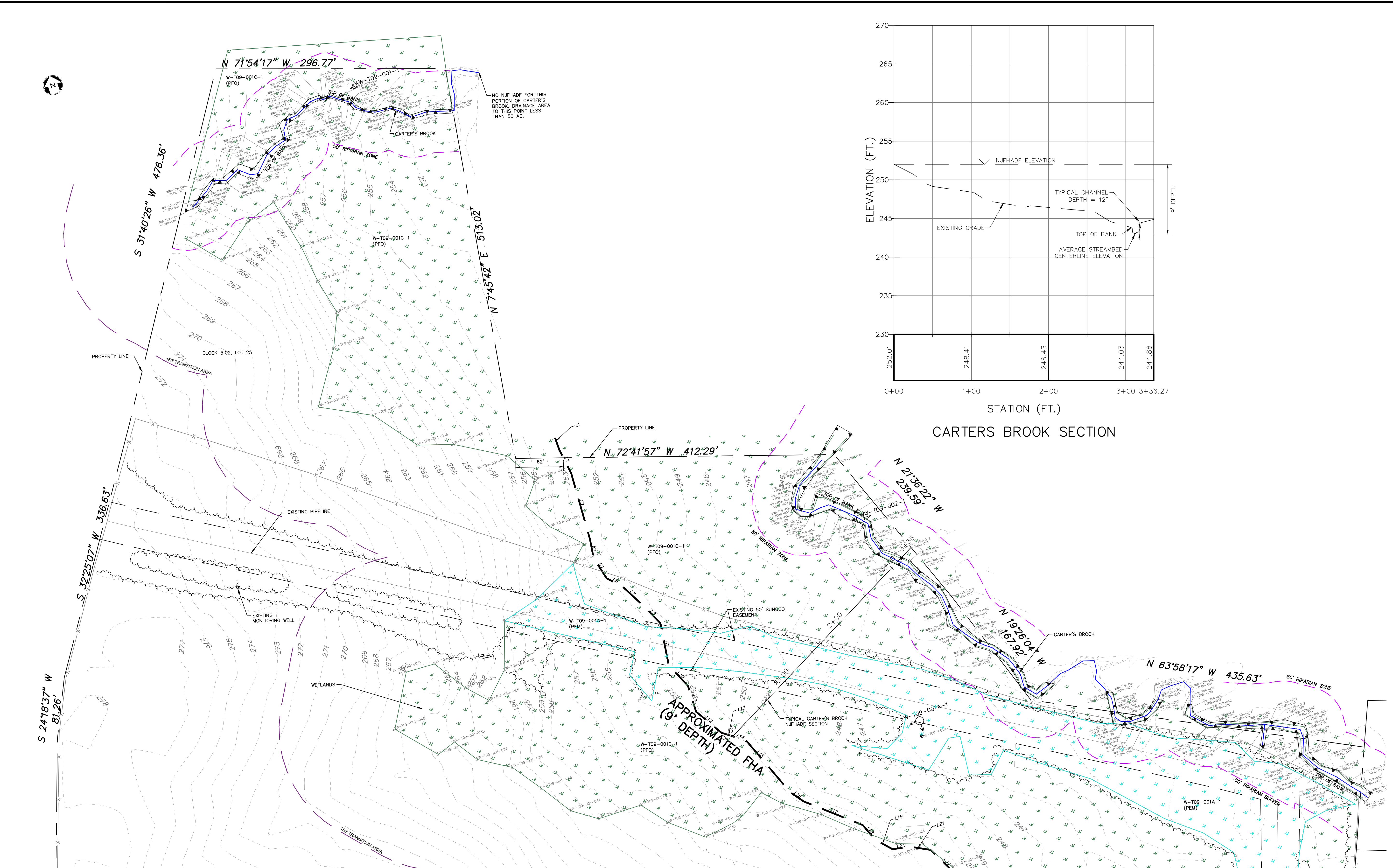
BLOCK 5.02, LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

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**



CARTERS BROOK SECTION



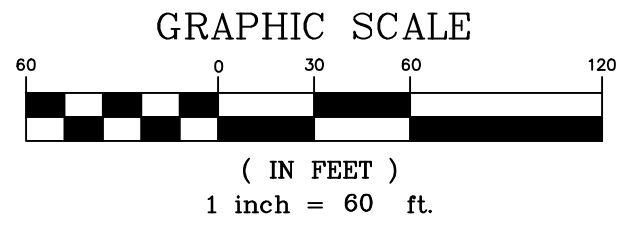
WETLAND UTILITY CROSSING TABULATION

STATION	WETLAND ID	WETLANDS						TRANSITION AREA		STATE OPEN WATER
		PALUSTRINE EMERGENT (PEM) (ACRES)		PALUSTRINE FORESTED (PFO) (ACRES)		PALUSTRINE SCRUB-SHRUB (PSS) (ACRES)		TEMPORARY IMPACT	PERMANENT IMPACT	PERMANENT IMPACT
		TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT	TEMPORARY IMPACT	PERMANENT IMPACT			
ROADWAY AND UTILITY CROSSING "A"	W-T09-002C-1 STATE OPEN WATER				1.049			0.642	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	0.487	
	W-T09-001A-1	0.149	0.314							
TOTAL		0.149	0.781	0.000	2.622	0.000	0.308	0.449	3.264	0.006

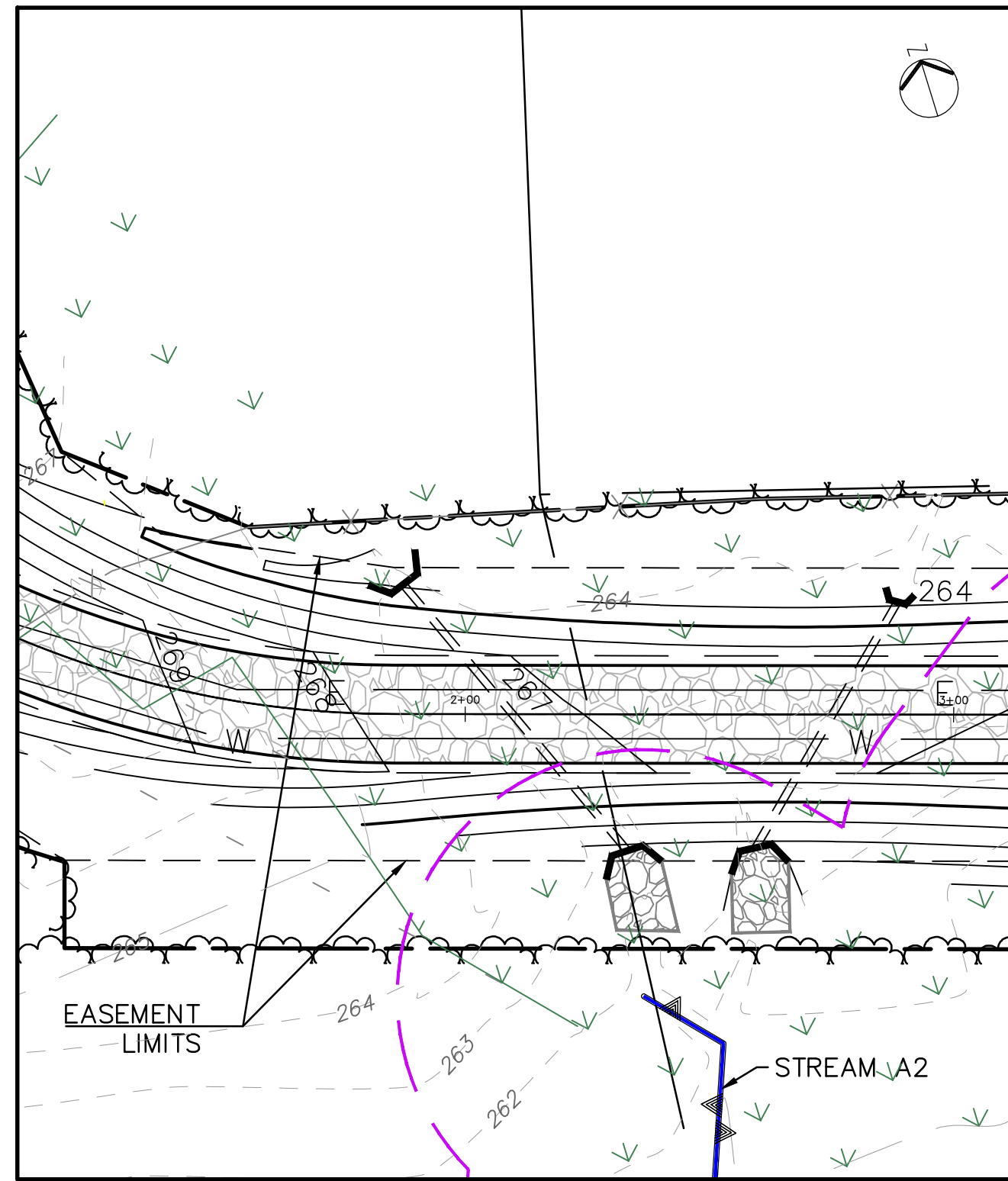
WETLAND LEGEND	
[Symbol]	PALUSTRINE EMERGENT (PEM)
[Symbol]	PALUSTRINE EMERGENT DISTURBED
[Symbol]	PALUSTRINE FORESTED (PFO)
[Symbol]	PALUSTRINE FORESTED DISTURBED
[Symbol]	PALUSTRINE SCRUB-SHRUB (PSS)
[Symbol]	PALUSTRINE SCRUB-SHRUB DISTURBED
[Symbol]	TRANSITION AREA DISTURBANCE
[Symbol]	TEMPORARY DISTURBANCE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

NOTES:

- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", DATED LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.
- NO WETLAND DISTURBANCE OR FLOOD HAZARD AREA IMPACT ON THIS SHEET.



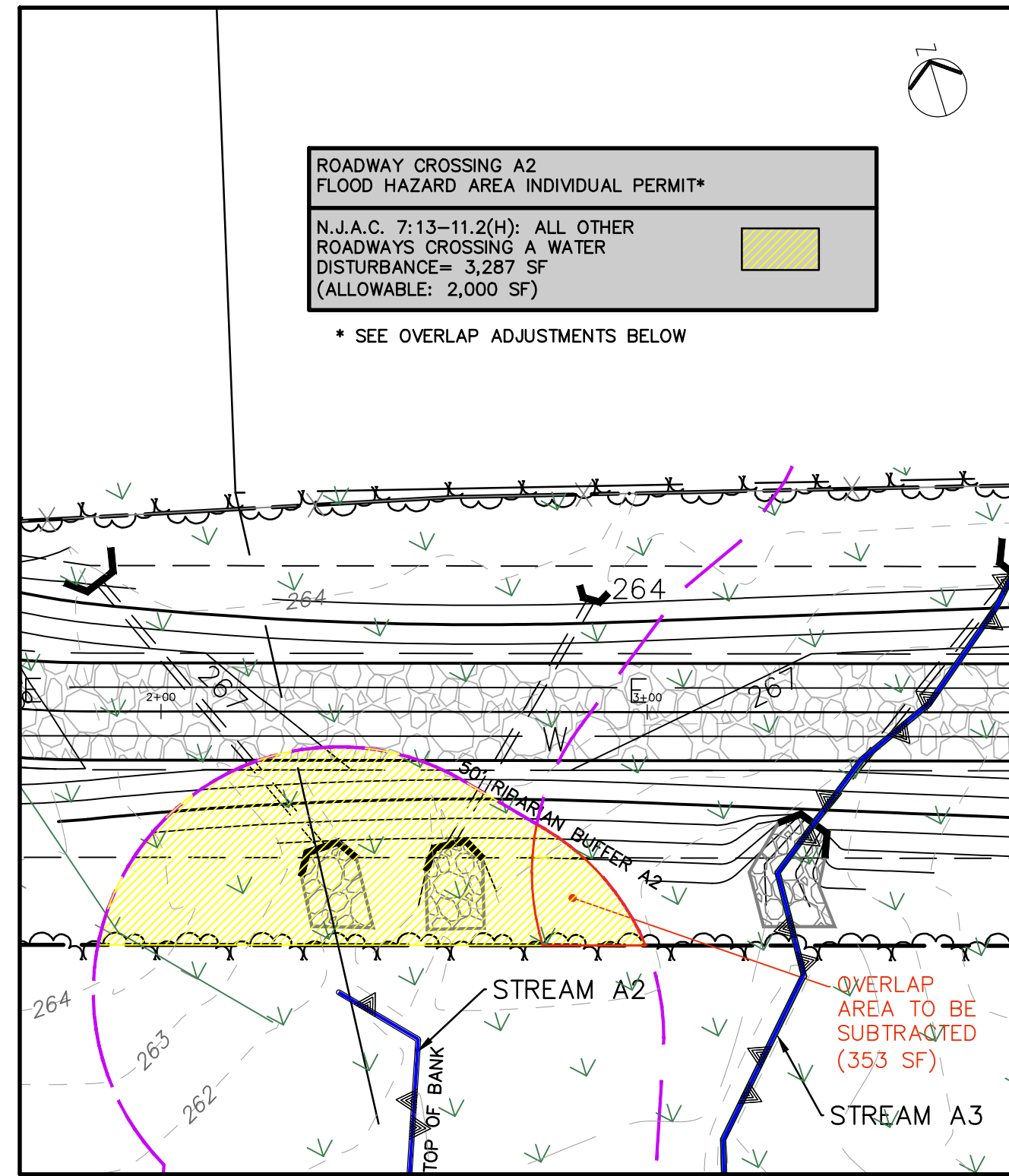




CROSSING A1 DETAIL

AREA OF DISTURBANCE SUMMARY TABLE / OVERLAP ADJUSTMENTS				
ROADWAY CROSSING A WATER (SF)				
CROSSING LABEL	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:
- TOTAL NET COMPENSATION=ROAD DISTURBANCE IN EXCEEDANCE OF ALLOWABLE LIMITS LESS OVERLAP AREA.
  - STREAM A1 ELIMINATED BASED UPON NUDEP WALK THROUGH.

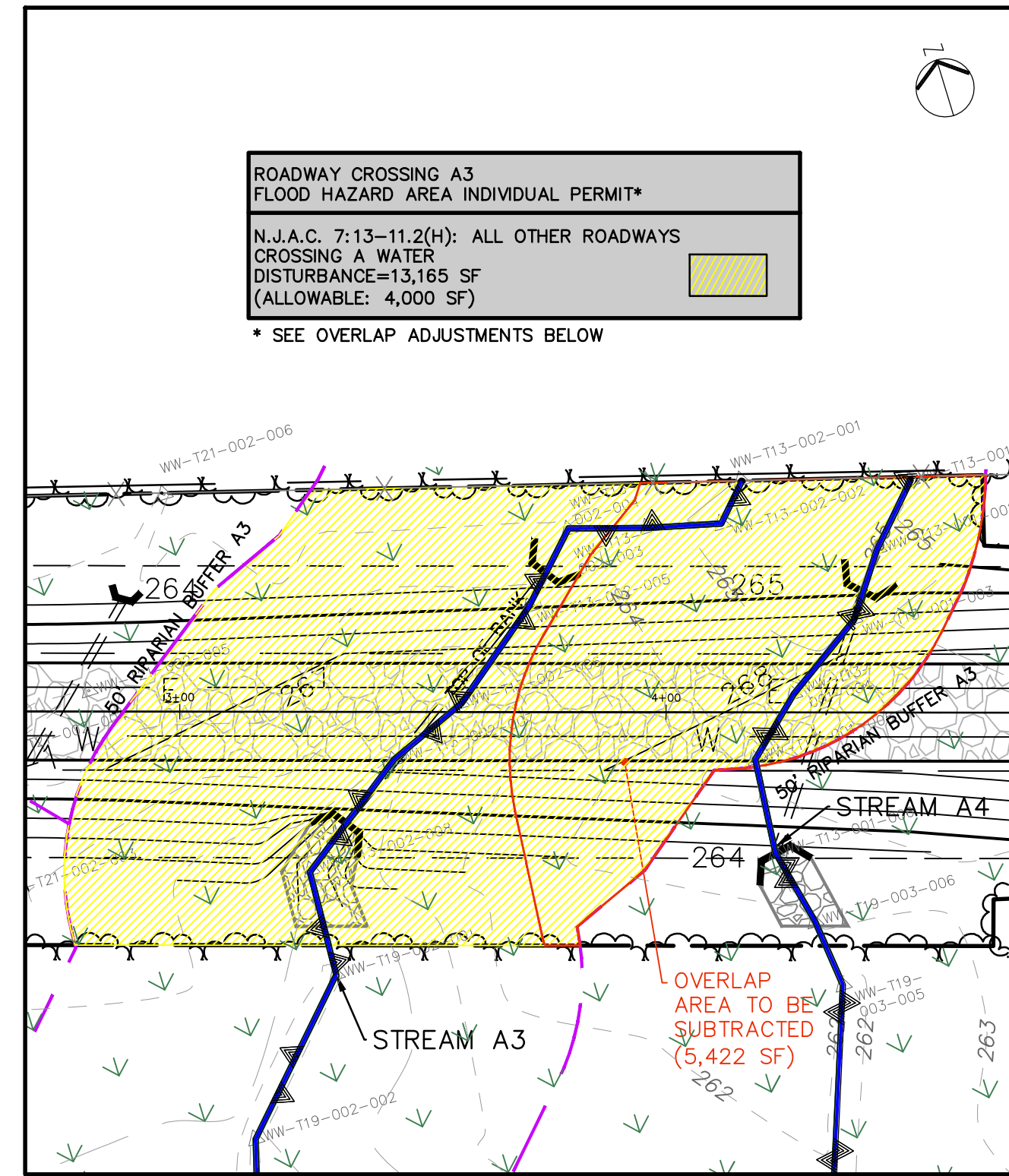


CROSSING A2 DETAIL

ROADWAY CROSSING A2  
FLOOD HAZARD AREA INDIVIDUAL PERMIT\*

N.J.A.C. 7:13-11.2(H): ALL OTHER ROADWAYS CROSSING A WATER  
DISTURBANCE= 3,287 SF  
(ALLOWABLE: 2,000 SF)

\* SEE OVERLAP ADJUSTMENTS BELOW

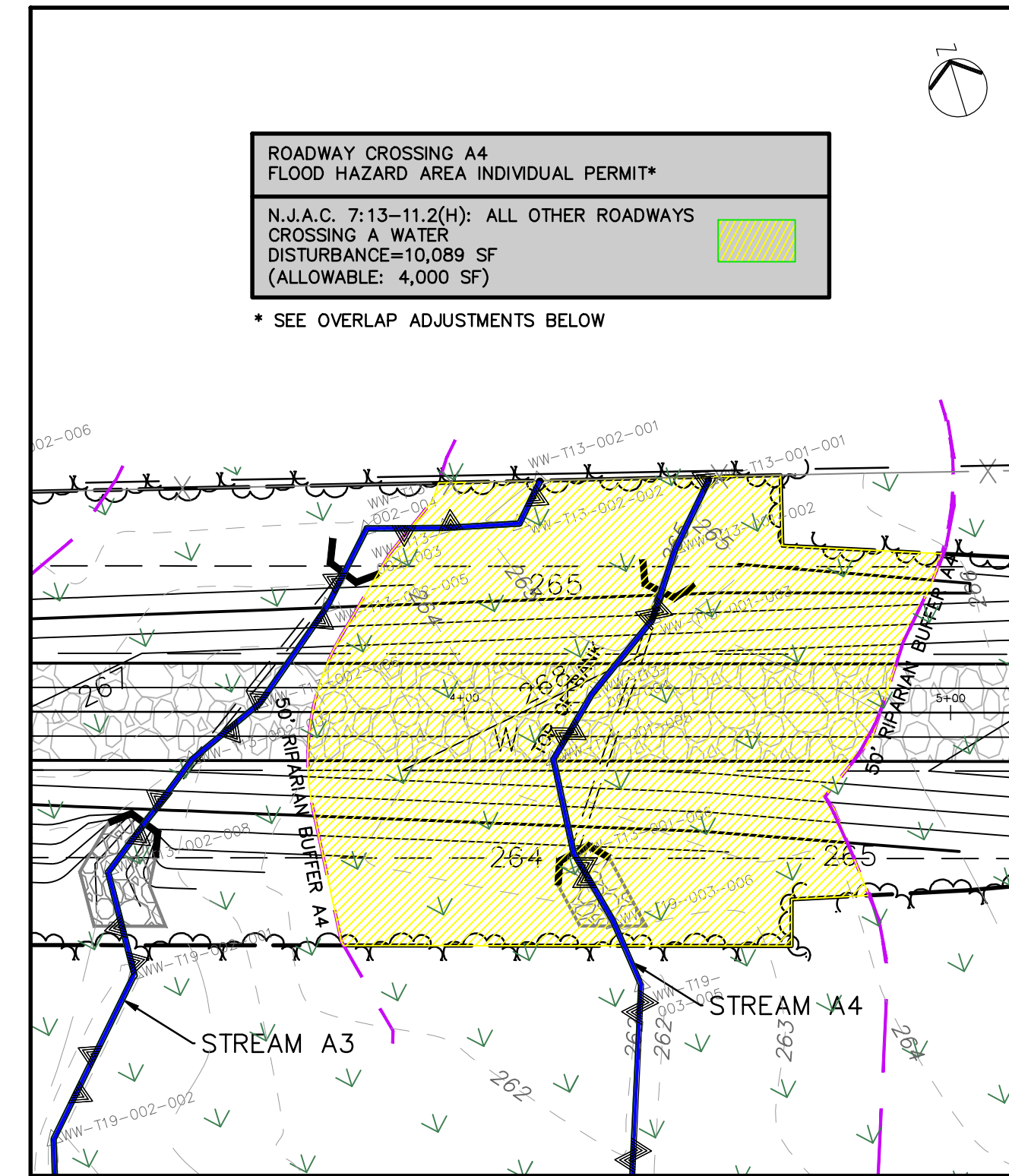


CROSSING A3 DETAIL

ROADWAY CROSSING A3  
FLOOD HAZARD AREA INDIVIDUAL PERMIT\*

N.J.A.C. 7:13-11.2(H): ALL OTHER ROADWAYS CROSSING A WATER  
DISTURBANCE=13,165 SF  
(ALLOWABLE: 4,000 SF)

\* SEE OVERLAP ADJUSTMENTS BELOW



CROSSING A4 DETAIL

ROADWAY CROSSING A4  
FLOOD HAZARD AREA INDIVIDUAL PERMIT\*

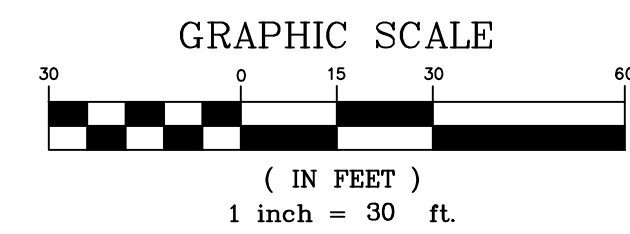
N.J.A.C. 7:13-11.2(H): ALL OTHER ROADWAYS CROSSING A WATER  
DISTURBANCE=10,089 SF  
(ALLOWABLE: 4,000 SF)

\* SEE OVERLAP ADJUSTMENTS BELOW

REV. / ISSUE	DATE	DESCRIPTION
1	08/24/18	REV PER NUDEP COMMENTS
2	02/04/19	REV DRAINAGE PER NUDEP COMMENTS
3	04/30/19	REV TRANSITION AREA WIDTHS PER NUDEP
4	05/17/19	REV TRANSITION AREAS AND BASIN PER NUDEP COMMENTS
5	06/07/19	REV DRAINAGE & LIMIT OF DISTURBANCE
6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS

**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
- EXISTING PERMANENT EASEMENT
- PROPOSED PERMANENT EASEMENT
- PROPOSED LIMIT OF DISTURBANCE
- STREAM LINE
- WETLANDS BOUNDARY
- TOP OF BANK
- RIPARIAN BUFFER APPROXIMATE 1/2 HADP
- PHOTO LOCATION (SEE REPORT)
- WETLAND FLAGS
- STATE OPEN WATERS FLAGS
- STATE PLANE COORDINATES
- 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. 24GA2812400

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. 41318 COA NO. 24GA28032700

SIGNATURE DATE

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

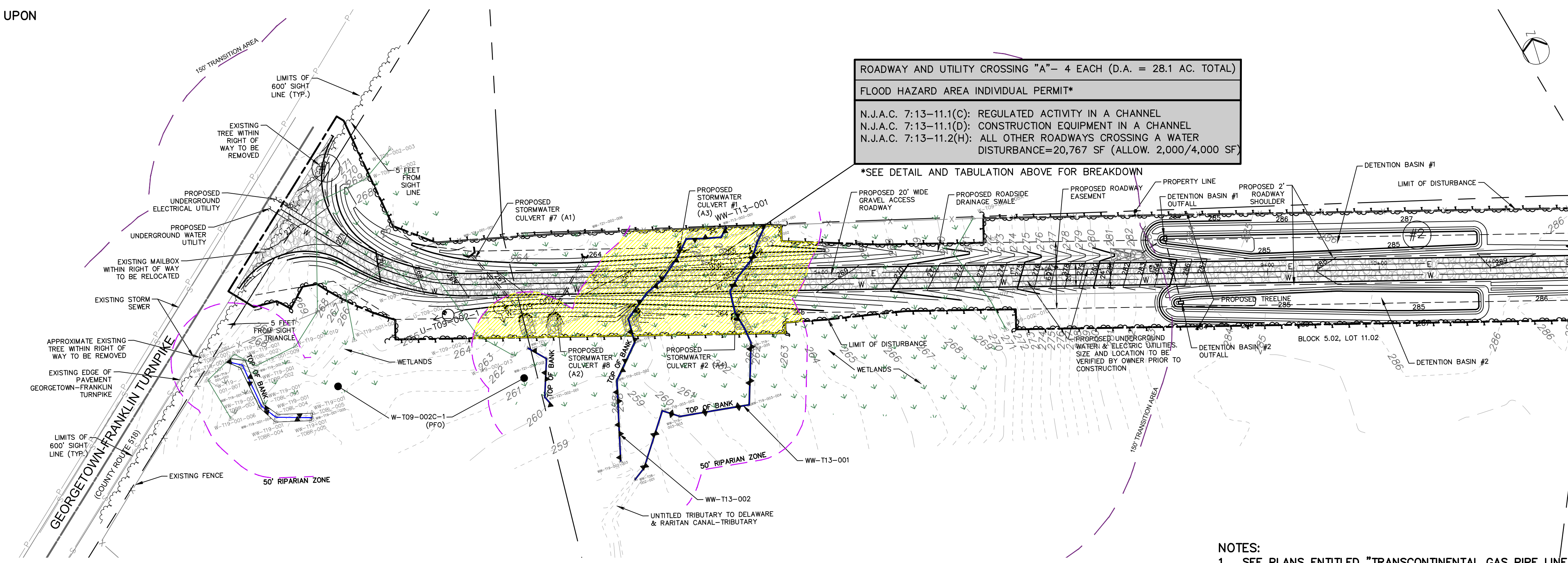
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PROJECT  
**NORTHEAST SUPPLY ENHANCEMENT PROJECT PROPOSED COMPRESSOR STATION 206**  
BLOCK 5.02, LOTS 1.02 (FORMERLY 9, 10, 12, 16 & 17), 11.02, 20 FORMERLY 23 & 25 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

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.

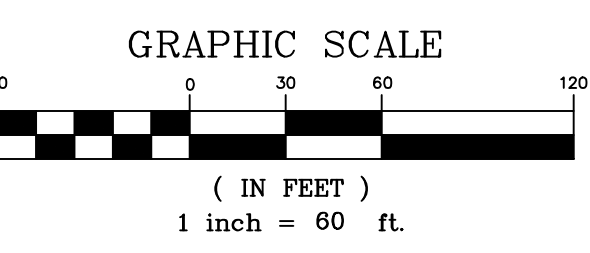


ROADWAY AND UTILITY CROSSING "A" - 4 EACH (D.A. = 28.1 AC. TOTAL)  
FLOOD HAZARD AREA INDIVIDUAL PERMIT\*

N.J.A.C. 7:13-11.1(C): REGULATED ACTIVITY IN A CHANNEL  
N.J.A.C. 7:13-11.1(D): CONSTRUCTION EQUIPMENT IN A CHANNEL  
N.J.A.C. 7:13-11.2(H): ALL OTHER ROADWAYS CROSSING A WATER  
DISTURBANCE=20,767 SF (ALLOW. 2,000/4,000 SF)

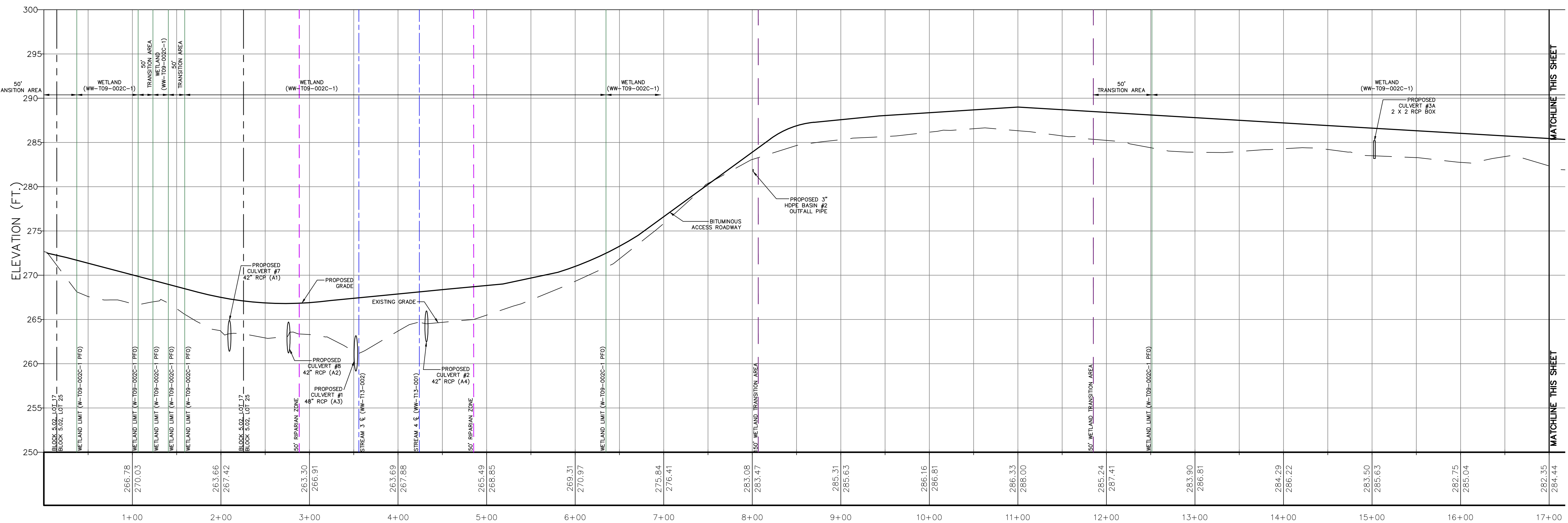
\*SEE DETAIL AND TABULATION ABOVE FOR BREAKDOWN

NO FLOOD HAZARD AREA RIPARIAN ZONE DISTURBANCE EAST OF CROSSING "A"

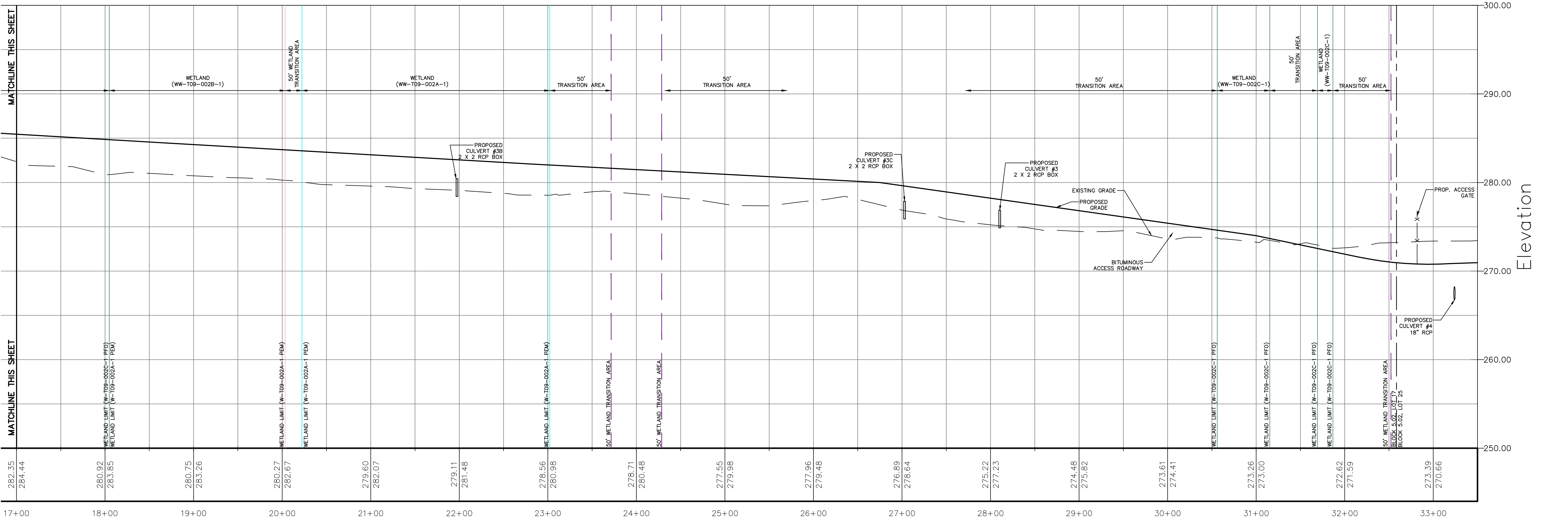


- NOTES:
- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.
  - SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.
  - SEE SHEET 4 FOR LOCATION OF APPROXIMATED FLOODPLAIN OF CARTER'S BROOK.

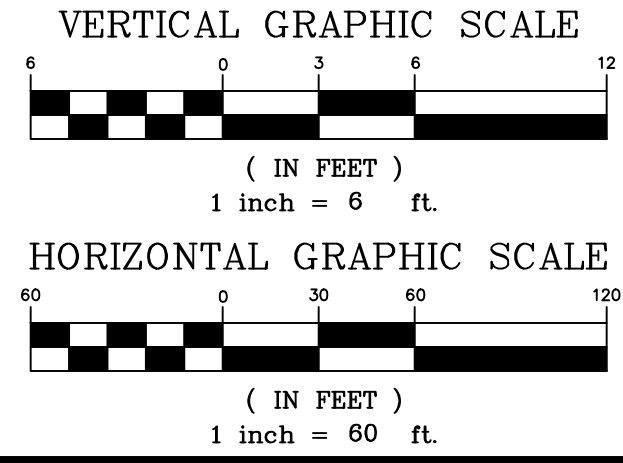




TRAP ROCK ACCESS ROADWAY PROFILE STA. 0+00 TO 17+00



TRAP ROCK ACCESS ROADWAY PROFILE STA. 17+00 TO 33+50



NOTES:  
 1. SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL.

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4	05/17/19	REV TRANSITION AREAS AND BASIN PER NJDEP COMMENTS
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6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS

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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. 24GA2812400

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. 41318 COA NO. 24GA28032700

SIGNATURE *W. Salmon* DATE 01/15/20

**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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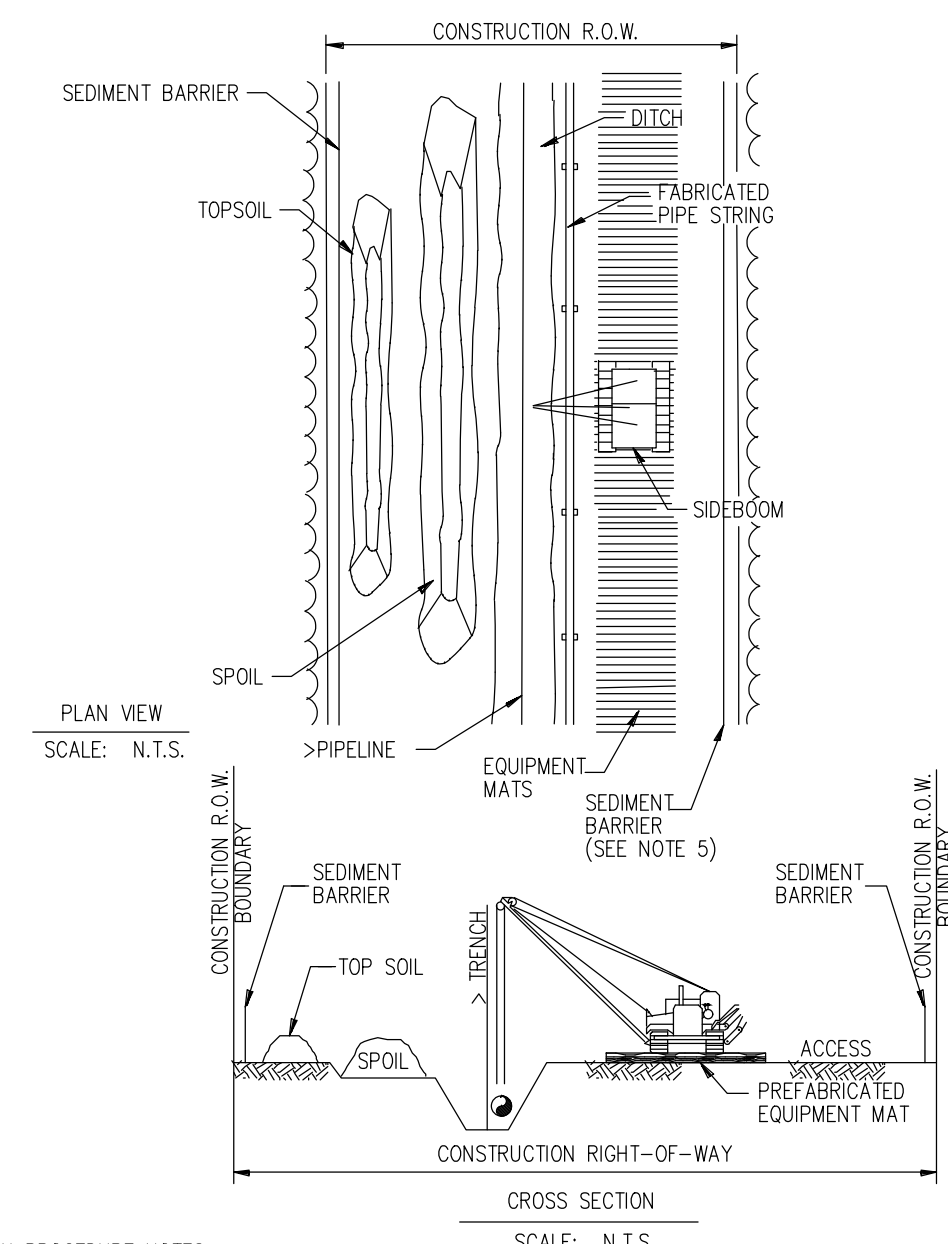
PROJECT  
**NORTHEAST SUPPLY  
 ENHANCEMENT PROJECT  
 PROPOSED  
 COMPRESSOR STATION 206**

BLOCK 502 LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16 & 17, 11.02, 20 FORMERLY 230 & 25  
 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE  
**ACCESS ROADWAY  
 PROFILE**

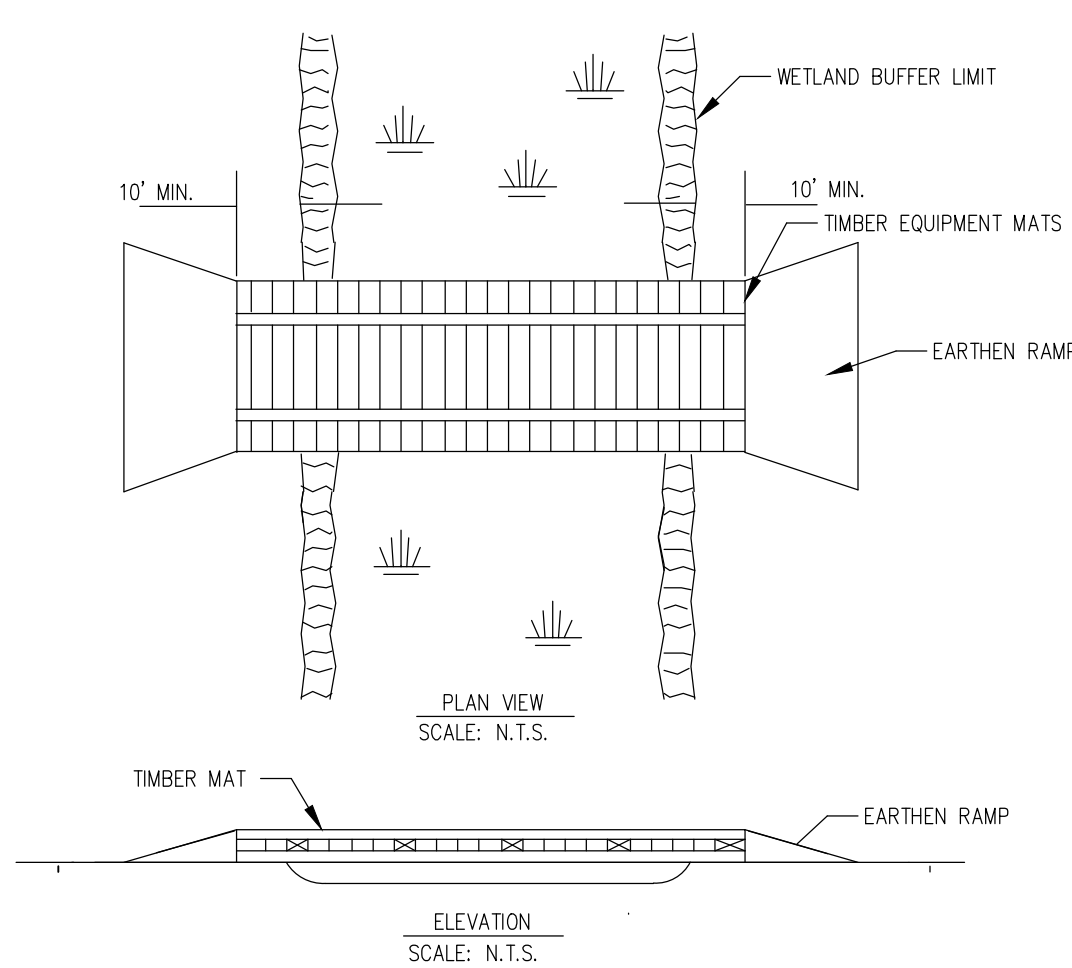
PROJECT NO.: 05731.0003 DRAWN BY: JPS  
 SCALE: AS SHOWN CHECKED BY: WS  
 DATE: 06-08-2018 SHEET 7 OF 9  
 SHEET NO. **7**





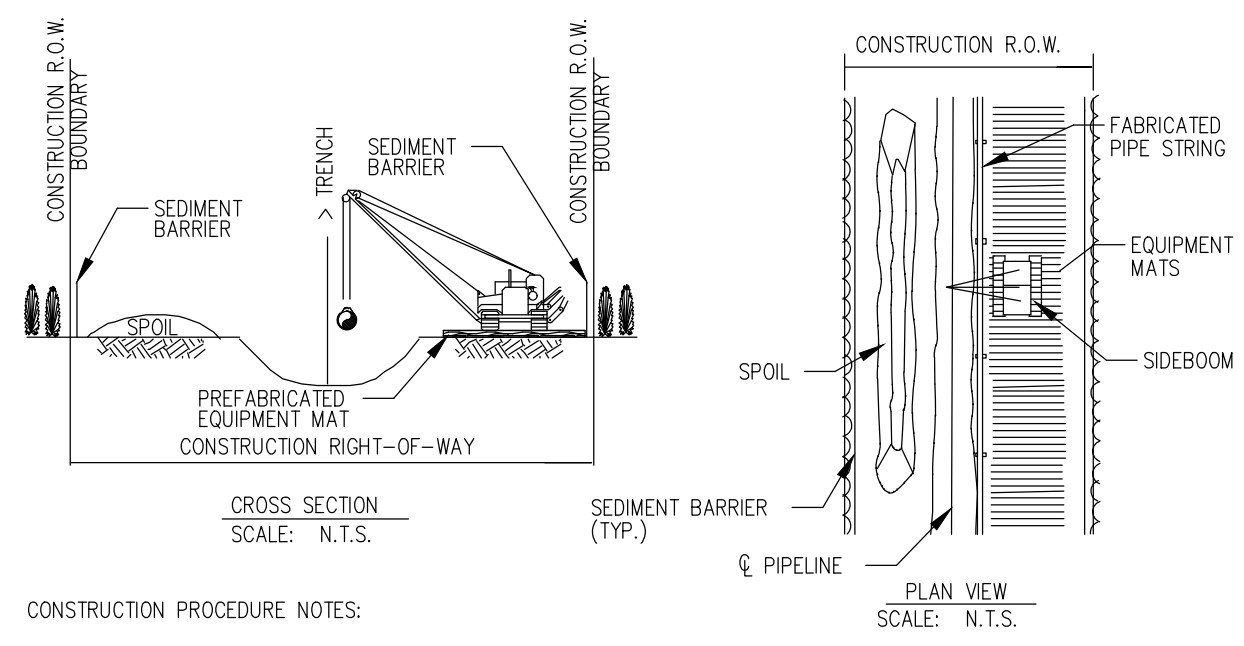
- CONSTRUCTION PROCEDURE NOTES:**
- FLAG WETLAND BOUNDARIES AND INSTALL BOUNDARY SIGNS PRIOR TO CLEARING.
  - NO OVERNIGHT PARKING OR REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY. REFUEL STATIONARY EQUIPMENT AS PER SPCC PLAN.
  - INSTALL TEMPORARY SLOPE BREAKERS UPSLOPE OF WETLAND BOUNDARIES AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
  - INSTALL PREFABRICATED EQUIPMENT MATS THROUGH ENTIRE WETLAND AREA ON THE WORKING SIDE OF THE CONSTRUCTION CORRIDOR.
  - AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT OUTER BOUNDARIES OF WETLAND AND ALONG BOTH WETLAND EDGES.
  - LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER THE TRENCHLINE. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY IN WETLANDS UNLESS THE CHIEF INSPECTOR AND COMPANY ENVIRONMENTAL INSPECTOR DETERMINE THAT SAFETY RELATED CONSTRUCTION CONSTRAINTS REQUIRE REMOVAL OF TREE STUMPS FROM UNDER THE WORKING SIDE OF THE RIGHT-OF-WAY.
  - CONDUCT TRENCH LINE TOPSOIL STRIPPING (IF TOPSOIL IS NOT SATURATED). SALVAGE TOPSOIL TO ACTUAL DEPTH OR A MAXIMUM DEPTH OF 12 INCHES, AS DETERMINED BY THE COMPANY ENVIRONMENTAL INSPECTOR. SEGREGATED TOPSOIL PILE MAY BE LOCATED ON SPOIL SIDE, AS REQUIRED.
  - LEAVE HARD PLUGS AT THE EDGES OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
  - TRENCHING THROUGH WETLANDS MAY PROCEED WHEN THE PIPE SECTION IS FABRICATED AND READY TO LAY. ONCE TRENCHING COMMENCES, CONSTRUCTION THROUGH THE WETLAND IS TO PROCEED CONTINUOUSLY UNTIL THE CROSSING IS COMPLETED, BACKFILLED AND RESTORED IN ORDER TO MINIMIZE THE LENGTH OF TIME THE TRENCH IS OPEN.
  - PIPE SECTION MAY BE FABRICATED WITHIN THE WETLAND ADJACENT TO PIPE TRENCH, OR IN STAGING AREA OUTSIDE THE WETLAND AND WALKED IN. NO CONCRETE COATING ACTIVITY WITHIN 100 FEET OF WETLAND BOUNDARY UNLESS APPROVED BY COMPANY ENVIRONMENTAL INSPECTOR.
  - LOWER-IN PIPE. PRIOR TO BACKFILLING TRENCH, INSTALL TRENCH PLUGS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
  - RESTORE GRADE TO NEAR PRE-CONSTRUCTION TOPOGRAPHY, REPLACE TOPSOIL AND INSTALL PERMANENT EROSION CONTROL.
  - REMOVE PREFABRICATED MATS FROM WETLANDS UPON COMPLETION.
  - SEED DISTURBED WETLANDS AREA AS DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND AS SHOWN ON DRAWINGS.

**TRANSCONTINENTAL GAS PIPE LINE LLC  
STANDARD ENVIRONMENTAL DETAIL  
TYPE II "SATURATED WETLAND"  
INSTALLATION PROCEDURE**



- NOTES:**
- PERIODICALLY CHECK INSTALLATION AND REMOVE BUILD-UP OF SEDIMENT OR DEBRIS.
  - MATERIALS PLACED IN WETLANDS SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THIS STRUCTURE IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
  - IF A WATERBODY IS LOCATED WITHIN A WETLAND SYSTEM, EXTEND TIMBER EQUIPMENT MATS TO THE BRIDGE EQUIPMENT CROSSING (BEC) USED TO CROSS THE WATERBODY IN ORDER TO ALLOW FOR CONTINUOUS TIMBER EQUIPMENT MAT COVERAGE THROUGH THE WETLAND AND WATERBODY AREA.
  - USE ADDITIONAL TIMBER MAT LAYERS TO RAISE CROSSING ABOVE GRADE WHERE POOR SOIL CONDITIONS EXIST.
  - TIMBER EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WETLAND BOUNDARIES.
  - INSTALL EARTHEN RAMP APPROACHES TO TIMBER EQUIPMENT MATS. EARTHEN RAMPS TO BE CONSTRUCTED OF UPLAND MATERIAL. TOP SOIL SHALL NOT BE USED TO CONSTRUCT EARTHEN RAMPS.

**WETLAND EQUIPMENT CROSSING  
TEMPORARY EROSION CONTROL MEASURE**



- CONSTRUCTION PROCEDURE NOTES:**
- FLAG WETLAND BOUNDARIES AND INSTALL BOUNDARY SIGNS PRIOR TO CLEARING.
  - NO OVERNIGHT PARKING OR REFUELING OF MOBILE EQUIPMENT IS ALLOWED WITHIN 100 FEET OF WETLAND. PLACE "NO FUELING" SIGN POSTS 100 FEET BACK FROM WETLAND BOUNDARY. REFUEL STATIONARY EQUIPMENT AS PER SPCC PLAN.
  - INSTALL TEMPORARY SLOPE BREAKERS UPSLOPE OF WETLAND BOUNDARIES AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
  - INSTALL PREFABRICATED EQUIPMENT MATS THROUGH ENTIRE WETLAND AREA ON THE WORKING SIDE OF THE CONSTRUCTION CORRIDOR.
  - AVOID ADJACENT WETLANDS. INSTALL SEDIMENT BARRIERS AT OUTER BOUNDARIES OF WETLAND AND ALONG BOTH WETLAND EDGES.
  - LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER THE TRENCHLINE. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE RIGHT-OF-WAY IN WETLANDS UNLESS THE CHIEF INSPECTOR AND COMPANY ENVIRONMENTAL INSPECTOR DETERMINE THAT SAFETY RELATED CONSTRUCTION CONSTRAINTS REQUIRE REMOVAL OF TREE STUMPS FROM UNDER THE WORKING SIDE OF THE RIGHT-OF-WAY.
  - TOPSOIL STRIPPING SHALL NOT BE REQUIRED IN SATURATED SOIL CONDITIONS.
  - LEAVE HARD PLUGS AT THE EDGES OF WETLAND UNTIL JUST PRIOR TO TRENCHING.
  - TRENCHING THROUGH WETLANDS MAY PROCEED WHEN THE PIPE SECTION IS FABRICATED AND READY TO LAY. ONCE TRENCHING COMMENCES, CONSTRUCTION THROUGH THE WETLAND IS TO PROCEED CONTINUOUSLY UNTIL THE CROSSING IS COMPLETED, BACKFILLED AND RESTORED IN ORDER TO MINIMIZE THE LENGTH OF TIME THE TRENCH IS OPEN.
  - PIPE SECTION MAY BE FABRICATED WITHIN THE WETLAND ADJACENT TO PIPE TRENCH, OR IN STAGING AREA OUTSIDE THE WETLAND AND WALKED IN. NO CONCRETE COATING ACTIVITY WITHIN 100 FEET OF WETLAND BOUNDARY UNLESS APPROVED BY COMPANY ENVIRONMENTAL INSPECTOR.
  - LOWER-IN PIPE. PRIOR TO BACKFILLING, INSTALL TRENCH PLUGS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
  - RESTORE GRADE TO PRE-CONSTRUCTION TOPOGRAPHY AND INSTALL PERMANENT EROSION CONTROL.
  - REMOVE PREFABRICATED MATS FROM WETLANDS UPON COMPLETION.
  - SEED DISTURBED WETLAND AREA AS DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND AS SHOWN ON DRAWINGS.

**TRANSCONTINENTAL GAS PIPE LINE LLC  
STANDARD ENVIRONMENTAL DETAIL  
TYPE II "SATURATED WETLAND"  
INSTALLATION PROCEDURE**

**TABLE 1 - RECOMMENDED SEEDING SCHEDULE**

RIPIARIAN BUFFER MIX  
(SRM000-10)  
APPLICATION RATE: 20 LBS PER ACRE OR 10 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
PANICUM CLANDESTINUM	DEERTONGUE	10%
CAREX VULPINOIDES	FOX SEDGE	10%
ELYNUS VIRGINICUS	VIRGINIA WILDBERRY	8%
SORGHASTRUM SCOPARIUM	LITTLE BLUESTEM	8%
ELYNUS RIPARIUS	RIVERBANK WILDBERRY	8%
SORGHASTRUM NIVIFLORUM	INDIANGRASS	8%
CHAMAECRISTA FASCIOLATA	PARTISBURG PEA	8%
ELYNUS VIRGINICUS	BIG BLUESTEM	8%
ANDROPOGON GERARDUS	SWITCHGRASS	8%
PANICUM VIRGATUM	SWITCHGRASS	8%
SUDANESA ALBA	BLACKEYED SUSAN	3%
SUDANESA ALBA	BLUE O' BROWN	3%
VERBENA HASTATA	BLUE VERVAIN	3%
IRIDIUM SPICATUM	ARROWWOOD	3%
MONARDA PUNCTATA	SPOTTED BEEBALM	2%
ELYNUS VIRGINICUS	SPRUELF	2%
ELYPATORIUM PERFORLUM	BOWSER	2%
PANICUM VIRGATUM	SWITCHGRASS	2%
HELIOPSIS HELIANTHOIDES	OXYE SUNFLOWER	2%
ELYPATORIUM PERFORLUM	BOWSER	2%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1%
MONARDA PUNCTATA	SPOTTED BEEBALM	1%
ELUTHAMA GRAMMIFOLIA	GRASSLEAF GOLDENROD	1%

**NOTES:**

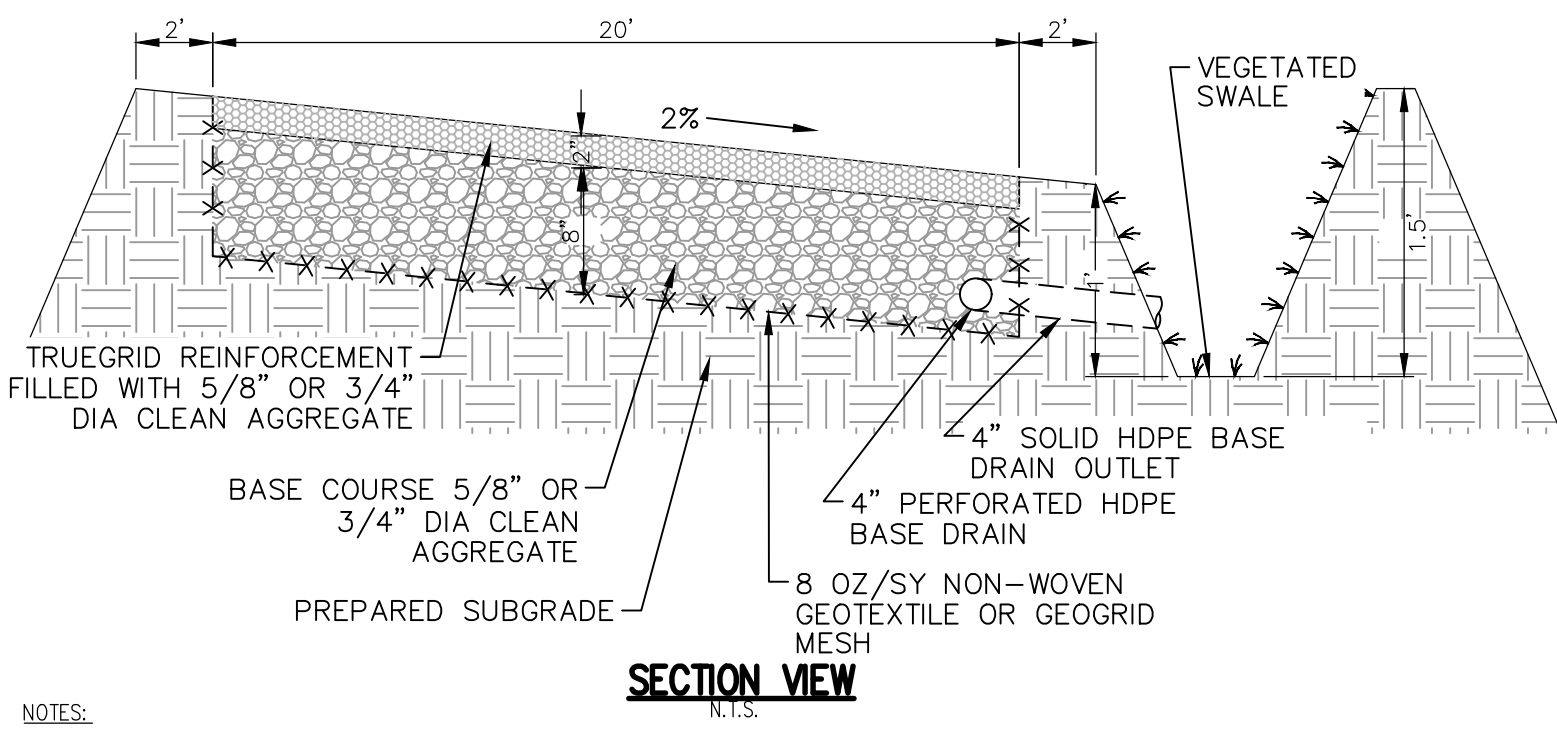
- THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN ZONE 1 AND ZONE 2 OF THE RESTORED FORESTED RIPIARIAN BUFFER.
- THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.

FLOOD PLAIN MIX  
(SRM000-10)  
APPLICATION RATE: 15 LBS PER ACRE OR 10 - 12 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
ELYNUS VIRGINICUS	VIRGINIA WILDBERRY	20%
CAREX VULPINOIDES	FOX SEDGE	10%
PANICUM CLANDESTINUM	DEERTONGUE	10%
SORGHASTRUM NIVIFLORUM	INDIANGRASS	10%
ANDROPOGON GERARDUS	BIG BLUESTEM	10%
PANICUM VIRGATUM	SWITCHGRASS	5%
CAREX CRISTATA	FRENCH BUCKINGHOM SEDGE	5%
HELIOPSIS HELIANTHOIDES	COMMON SUNFLOWER	3%
VERBENA HASTATA	BLUE VERVAIN	3%
HELIOPSIS HELIANTHOIDES	OXYE SUNFLOWER	2%
ELYPATORIUM PERFORLUM	BOWSER	2%
ASTER PENSILVANICUS	PURPLESTEM ASTER	1%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1%
MONARDA PUNCTATA	SPOTTED BEEBALM	1%
ELUTHAMA GRAMMIFOLIA	GRASSLEAF GOLDENROD	1%

**NOTES:**

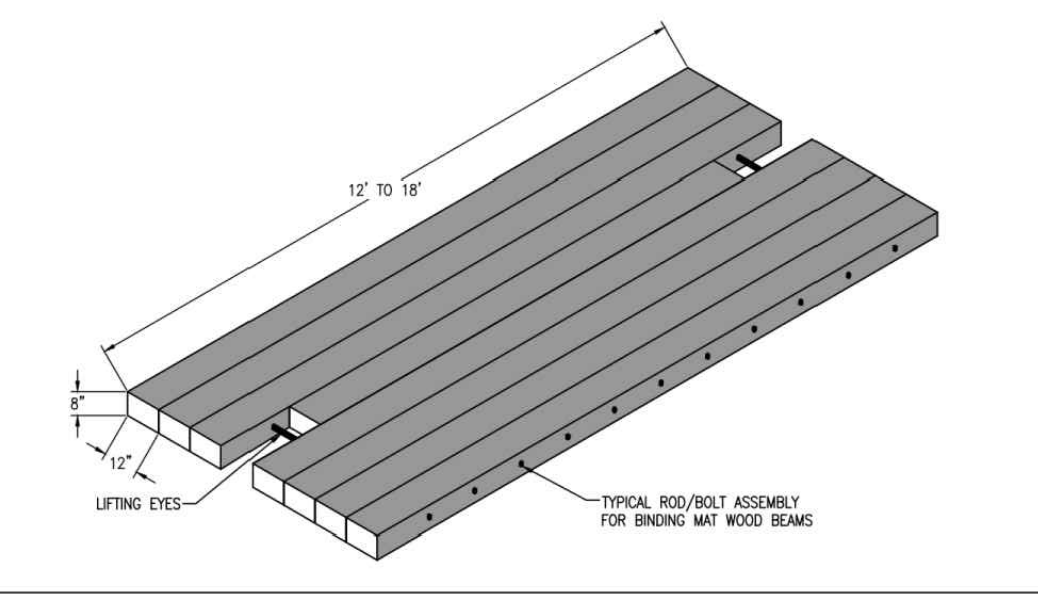
- THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN THE RESTORED NON-FORESTED RIPIARIAN BUFFER.
- THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.



- NOTES:**
- ONCE SUBGRADE HAS BEEN PREPARED, INSTALL GEOTEXTILE OR GEOGRID MESH.
  - INSTALL BASE DRAIN AND BACKFILL BASE COURSE MATERIAL IN 4-INCH LIFTS, LEVELED AND COMPACTED TO LOCK IN ANGULAR STONE.
  - INSTALL TRUEGRID REINFORCEMENT UNITS BY PLACING CELLS FACE UP, RE-CONFIGURED AND CUT AS NECESSARY TO MEET THE PROJECT GEOMETRY.
  - BACKFILL SURFACE COURSE MATERIAL BY BACK DUMPING DIRECTLY FROM DUMP TRUCKS OR FROM BUCKETS MOUNTED TO TRACTORS. HAND SHOVELING IS ALSO ACCEPTABLE. SPREAD MATERIAL USING STEER LOADERS, POWER BROOMS, BLADES, FLAT-BOTTOMED SHOVELS, AND/OR WIDE "ASPHALT RAKES" TO FILL THE CELLS. ONCE CELLS ARE AT CAPACITY, COMPACT AGGREGATE WITH A ROLLER OR VIBRATING PLATE.
  - ALL AGGREGATE SHALL BE UNIFORMLY GRADED AND CLEAN PRIOR TO INSTALLATION.
  - REFER TO PLANS FOR VEGETATED SWALE LOCATIONS AND DETAILS FOR LINING AND DIMENSION REQUIREMENTS.
  - BASE DRAIN SHALL DAYLIGHT A MINIMUM OF 200' FEET OF LINEAR ROAD AT A MINIMUM SLOPE OF 0.5%
  - SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM.

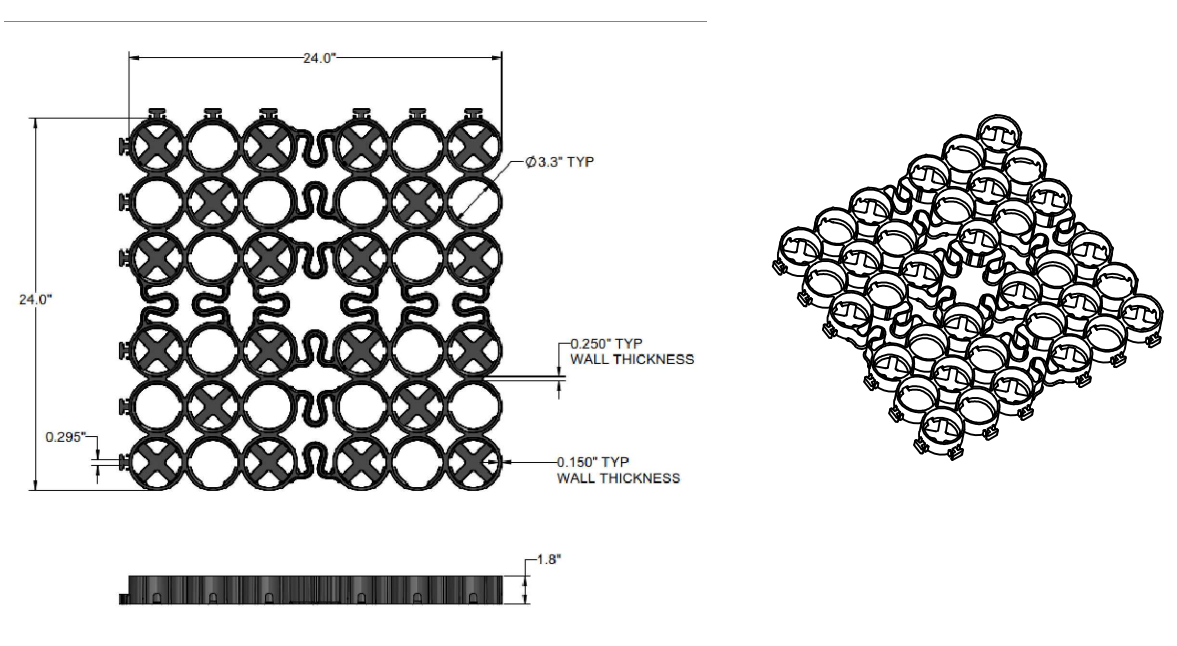
**REINFORCED GRAVEL ACCESS ROAD**

**TRANSCONTINENTAL GAS PIPE LINE LLC  
STANDARD ENVIRONMENTAL DETAIL  
TYPE III "FLOODED WETLAND"  
INSTALLATION PROCEDURE**



**PRE-FABRICATED CONSTRUCTION MATTING  
TEMPORARY EROSION CONTROL MEASURE**

- NOTE:**
- CONSTRUCTION MATTING SHALL BE INSTALLED THROUGHOUT ENTIRE WORKING SITE WORKSPACE WHEN WITHIN FRESHWATER WETLANDS, WETLANDS BUFFERS AND RIPIARIAN ZONES.
  - RESTORATION AND STABILIZATION TO OCCUR UPON REMOVAL OF TEMPORARY ACCESS ROADS.



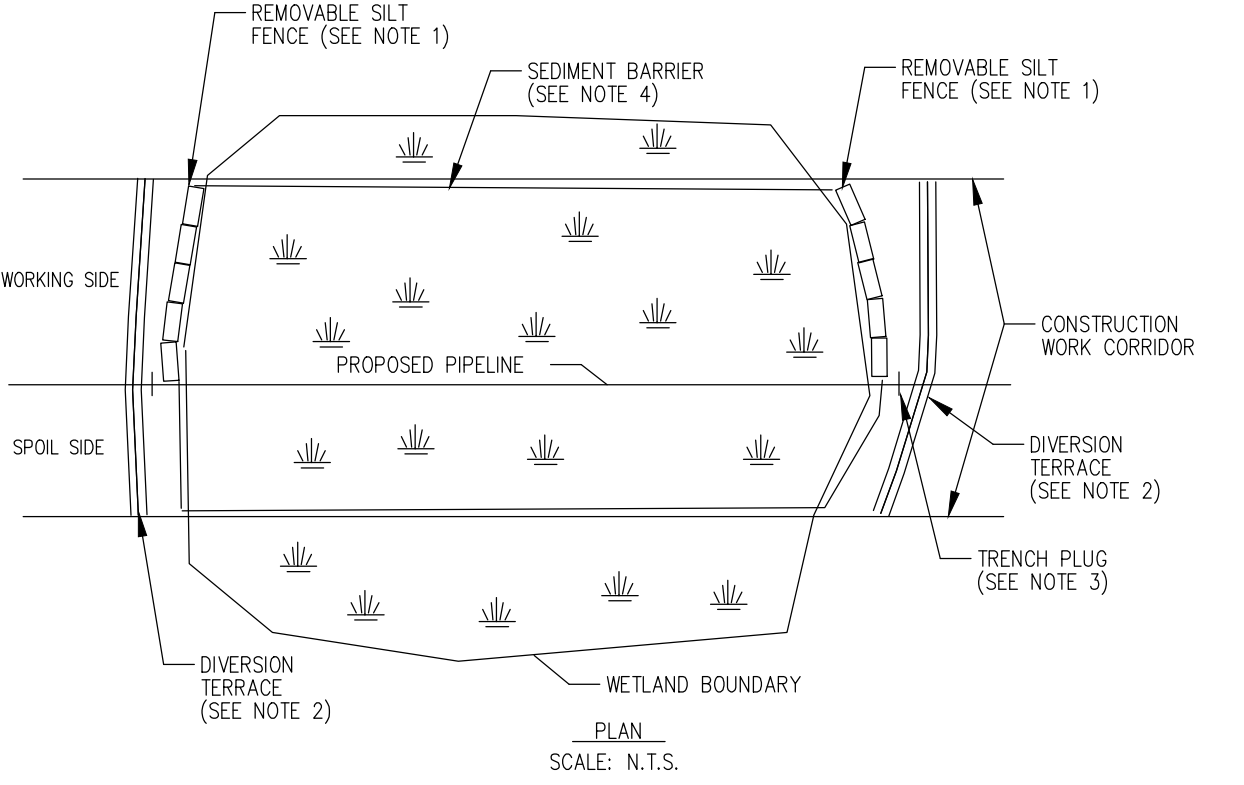
**TRUEGRID BLOCK REFERENCE VIEW**

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



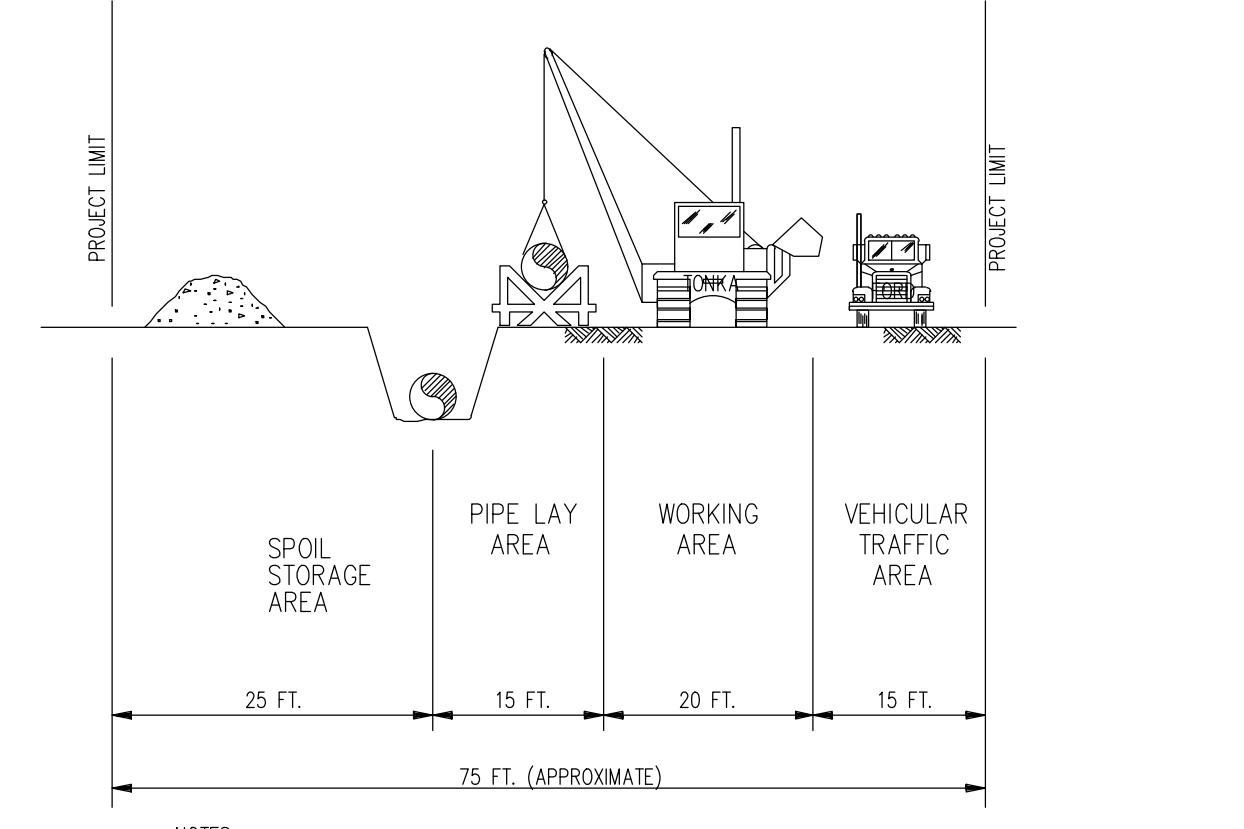
**ROADWAY AND EASEMENT CROSS-SECTION**

- NOTES:**
- PROPOSED ELECTRIC AND WATER SERVICE SIZE AND LOCATION TO BE VERIFIED BY OWNER PRIOR TO CONSTRUCTION.
  - ROADWAY SLOPE AND CROWN VARY. SEE SHEETS 3, 4 AND 6.



- NOTES:**
- INSTALL REMOVABLE SEDIMENT BARRIERS (HAY BALES) OR DRIVEABLE BERMS ACROSS THE TRAVEL LANE AT BOTH WETLAND BOUNDARIES. THE REMOVABLE SEDIMENT BARRIERS CAN BE REMOVED DURING THE CONSTRUCTION DAY, BUT MUST BE RE-INSTALLED AFTER CONSTRUCTION HAS STOPPED FOR THE DAY AND/OR WHEN HEAVY PRECIPITATION IS IMMINENT.
  - INSTALL DIVERSION TERRACES IMMEDIATELY UPSLOPE OF BOTH WETLAND BOUNDARIES TO PREVENT SEDIMENT FROM ENTERING THE WETLAND.
  - INSTALL TRENCH PLUGS AT BOTH WETLAND BOUNDARIES TO PREVENT DIVERSION OF WATER INTO UPLAND PORTIONS OF THE PIPELINE TRENCH AND TO KEEP ANY ACCUMULATED UPLAND TRENCH WATER OUT OF WETLAND.
  - FOR TYPE II ("SATURATED") AND TYPE III ("FLOODED") WETLANDS, INSTALL SEDIMENT BARRIERS AT BOTH WETLAND BOUNDARIES AND ALONG BOTH WETLAND EDGES. FOR TYPE I ("DRY") WETLANDS, INSTALL SEDIMENT BARRIERS AT WETLAND BOUNDARIES, ALONG THE EDGE OF THE SPOIL SIDE OF THE CONSTRUCTION CORRIDOR AND ALONG THE DOWNSLOPE EDGE OF THE WETLAND. IF THE DOWNSLOPE EDGE OF THE WETLAND IS THE SPOIL SIDE, THEN SEDIMENT BARRIERS ARE NOT REQUIRED ON THE WORKING SIDE OF THE CORRIDOR UNLESS EQUIPMENT TRAVELING THROUGH THE WETLAND CAUSES SPOIL AND SEDIMENT TO EXIT THE CONSTRUCTION CORRIDOR.

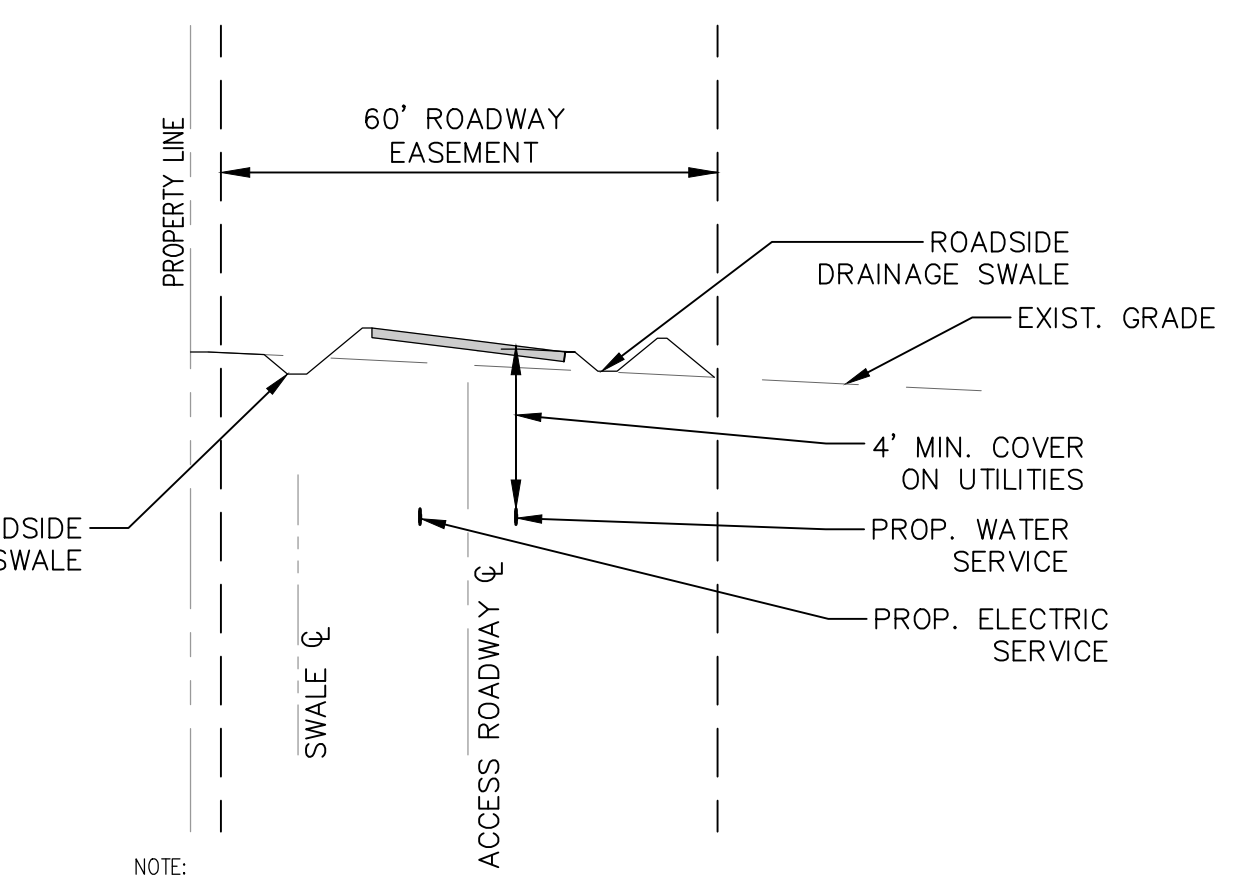
**WETLAND CROSSING CONFIGURATION  
(TYPE I, II AND III WETLANDS)**



- NOTES:**
- ALL DIMENSIONS ARE APPROXIMATE.
  - ADDITIONAL WIDTH MAY BE DICTATED BY SOIL CONDITIONS, SLOPES OR CONSTRUCTION.
  - SOIL REMOVED DURING TRENCHING SHOULD BE PLACED UPSLOPE OF THE TRENCH WHEREVER POSSIBLE.

**TYPICAL SECTION OF  
CONSTRUCTION RIGHT-OF-WAY**

SCALE: N.T.S.



- NOTES:**
- PROPOSED ELECTRIC AND WATER SERVICE SIZE AND LOCATION TO BE VERIFIED BY OWNER PRIOR TO CONSTRUCTION.
  - ROADWAY SLOPE AND CROWN VARY. SEE SHEETS 3, 4 AND 6.

**ROADWAY AND EASEMENT CROSS-SECTION**

SCALE: N.T.S.

- NOTES:**
- SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR PROPOSED DRIVEWAY, GRADING, DRAINAGE AND UTILITY DESIGN DETAIL AND LOCATION OF BRUSH SEED MIX APPLICATION.
  - SEE PLANS ENTITLED "TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION AND SEDIMENT CONTROL PLAN - COMPRESSOR STATION NO. 206 TRAP ROCK ACCESS ROAD", LAST REVISED JANUARY 15, 2020, PREPARED BY AECOM FOR SOIL EROSION & SEDIMENT CONTROL MEASURES AND STREAM DIVERSION METHODOLOGIES.

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
6	06/24/19	REV FENCE AND LIMIT OF DISTURBANCE
7	10/11/19	REV TITLE BLOCK FOR ACCESS RD LOTS
8	01/15/20	GENERAL REVISIONS

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

**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

01/15/20

PAULUS, SOKOLOWSKI AND SARTOR, L.L.C.

1433 ROUTE 34  
SUITE A4  
WALL, NJ 07727  
PHONE: (848) 206-2626

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

ALL DIMENSIONS MUST 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 NOTES PROJECT AND CLIENT. THEY ARE NOT INTENDED FOR USE ON EXTENSIONS OF THIS PROJECT OR FOR REUSE ON ANY OTHER PROJECT.

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

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**PROJECT**  
NORTHEAST SUPPLY  
ENHANCEMENT PROJECT  
PROPOSED  
COMPRESSOR STATION 206

BLOCK 5.02, LOTS 1.02 (FORMERLY 8, 10, 12, 16 & 17), 11.02, 20 (FORMERLY 23) & 25  
TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

**CONSTRUCTION  
DETAILS**

PROJECT NO.: 05731.0003  
SCALE: AS SHOWN  
DATE: 06-08-2018  
SHEET NO.

DRAWN BY: JPS  
CHECKED BY: WS  
SHEET 8 OF 9



WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES

I. APPLICABILITY

A. THE INTENT OF THESE PROCEDURES IS TO ASSIST PROJECT SPONSORS BY IDENTIFYING BASELINE MITIGATION MEASURES FOR THE EXTENT AND DURATION OF PROJECT RELATED DISTURBANCE ON WETLANDS AND WATERBODIES...

- 1. PROVIDES EQUAL OR BETTER ENVIRONMENTAL PROTECTION;
2. IS NECESSARY BECAUSE A PORTION OF THESE PROCEDURES IS INFEASIBLE OR UNWORKABLE BASED ON PROJECT-SPECIFIC CONDITIONS...

SPONSORS OF PROJECTS PLANNED FOR CONSTRUCTION UNDER THE AUTOMATIC AUTHORIZATION PROVISIONS IN THE FERCS REGULATIONS MUST RECEIVE WRITTEN APPROVAL FOR ANY VARIANCES IN ADVANCE OF CONSTRUCTION...

II. PRECONSTRUCTION FILING

A. THE FOLLOWING INFORMATION MUST BE FILED WITH THE SECRETARY OF THE FERCS (SECRETARY) PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE REVIEW AND WRITTEN APPROVAL BY THE DIRECTOR...

- 1. SITE-SPECIFIC JUSTIFICATIONS FOR EXTRA WORK AREAS THAT WOULD BE CLOSER THAN 50 FEET FROM A WATERBODY OR WETLAND;
2. SITE-SPECIFIC JUSTIFICATIONS FOR THE USE OF A CONSTRUCTION RIGHT-OF-WAY GREATER THAN 75-FOOT WIDE IN WETLANDS...

III. ENVIRONMENTAL INSPECTORS

A. AT LEAST ONE ENVIRONMENTAL INSPECTOR HAVING KNOWLEDGE OF THE WETLAND AND WATERBODY CONDITIONS IN THE PROJECT AREA IS REQUIRED FOR EACH CONSTRUCTION SPREAD...

IV. PRECONSTRUCTION PLANNING

A. THE PROJECT SPONSOR SHALL DEVELOP PROJECT-SPECIFIC SPILL PREVENTION AND RESPONSE PROCEDURES THAT MEET APPLICABLE REQUIREMENTS OF STATE AND FEDERAL AGENCIES...

- A. ALL EMPLOYEES HANDLING FUELS AND OTHER HAZARDOUS MATERIALS ARE PROPERLY TRAINED;
B. ALL EQUIPMENT IS IN GOOD OPERATING ORDER AND INSPECTED ON A REGULAR BASIS;

E. HAZARDOUS MATERIALS, INCLUDING CHEMICALS, FUELS, AND LUBRICATING OILS ARE NOT STORED WITHIN 100 FEET OF A WETLAND, WATERBODY, OR DESIGNATED MUNICIPAL WATERSHED AREA...

2. THE PROJECT SPONSOR AND ITS CONTRACTORS MUST STRUCTURE THEIR OPERATIONS IN A MANNER THAT PROVIDES FOR THE PROMPT AND EFFECTIVE CLEANUP OF SPILLS OF FUEL AND OTHER HAZARDOUS MATERIALS...

B. AGENCY COORDINATION

THE PROJECT SPONSOR MUST COORDINATE WITH THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCIES AS OUTLINED IN THESE PROCEDURES AND IN THE FERCS ORDERS.

V. WATERBODY CROSSINGS

- A. NOTIFICATION PROCEDURES AND PERMITS
1. APPLY TO THE U.S. ARMY CORPS OF ENGINEERS (COE) OR ITS DELEGATED AGENCY, FOR THE APPROPRIATE WETLAND AND WATERBODY CROSSINGS PERMITS...

B. INSTALLATION

- 1. TIME WINDOW FOR CONSTRUCTION UNLESS EXPRESSLY PERMITTED OR FURTHER RESTRICTED BY THE APPROPRIATE FEDERAL OR STATE AGENCY IN WRITING ON A SITE-SPECIFIC BASIS...

- 2. EXTRA WORK AREAS
A. LOCATE ALL EXTRA WORK AREAS (SUCH AS STAGING AREAS AND ADDITIONAL SPOIL STORAGE AREAS) AT LEAST 50 FEET AWAY FROM WATERS EDGE...

- 3. GENERAL CROSSING PROCEDURES
A. COMPLY WITH THE COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CONDITIONS...

- 4. SPOIL PILE PLACEMENT AND CONTROL
A. ALL SPOIL FROM MINOR AND INTERMEDIATE WATERBODY CROSSINGS, AND UPLAND SPOIL FROM MAJOR WATERBODY CROSSINGS, MUST BE PLACED IN THE CONSTRUCTION RIGHT-OF-WAY AT LEAST 10 FEET FROM THE WATERS EDGE...

- 5. EQUIPMENT BRIDGES
A. ONLY CLEANING EQUIPMENT AND EQUIPMENT NECESSARY FOR INSTALLATION OF EQUIPMENT BRIDGES MAY CROSS UPLANDS...

- 6. DRY-DITCH CROSSING METHODS
A. UNLESS APPROVED OTHERWISE BY THE APPROPRIATE FEDERAL OR STATE AGENCY, INSTALL THE PIPELINE USING ONE OF THE DRY-DITCH METHODS OUTLINED BELOW...

- 7. DAM AND PUMP
(1) THE DAM-AND-PUMP METHOD MAY BE USED WITHOUT PRIOR APPROVAL FOR CROSSINGS OF WATERBODIES WHERE PUMPS CAN ADEQUATELY TRANSFER STREAMFLOW VOLUMES AROUND THE WORK AREA...

- 8. FLUME CROSSING
THE FLUME CROSSING METHOD REQUIRES IMPLEMENTATION OF THE FOLLOWING STEPS:

- 1) INSTALL FLUME PIPE AFTER BLASTING (IF NECESSARY), BUT BEFORE ANY TRENCHING;
2) USE SAND BAG OR SAND BAG AND PLASTIC SHEETING DIVERSION STRUCTURE OR EQUIVALENT TO DEVELOP AN EFFECTIVE SEAL;

- 3) PROPERLY ALIGN FLUME PIPE(S) TO PREVENT BANK EROSION AND STREAMBED SCOUR;
4) DO NOT REMOVE FLUME PIPE DURING TRENCHING, PIPELAYING, OR BACKFILLING ACTIVITIES...

- 5) REMOVE ALL FLUME PIPES AND DAMS THAT ARE NOT ALSO PART OF THE EQUIPMENT BRIDGE AS SOON AS FINAL CLEANUP OF THE STREAM BED AND BANK IS COMPLETE.

D. HORIZONTAL DIRECTIONAL DRILL

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

- (1) SITE-SPECIFIC CONSTRUCTION DIAGRAMS THAT SHOW THE LOCATION OF MUD PITS, PIPE ASSEMBLY AREAS, AND ALL AREAS TO BE DISTURBED OR CLEARED FOR CONSTRUCTION;
(2) JUSTIFICATION THAT DISTURBED AREAS ARE LIMITED TO THE MINIMUM NEEDED TO CONSTRUCT THE CROSSING;

- (3) IDENTIFICATION OF ANY ABOVEGROUND DISTURBANCE OR CLEARING BETWEEN THE HDD ENTRY AND EXIT WORKSPACES DURING CONSTRUCTION;
(4) A DESCRIPTION OF HOW AN INADVERTENT RELEASE OF DRILLING MUD WOULD BE CONTAINED AND CLEANED UP; AND

- (5) A CONTINGENCY PLAN FOR CROSSING THE WATERBODY OR WETLAND IN THE EVENT THE HDD IS UNSUCCESSFUL AND HOW THE ABANDONED DRILL HOLE WOULD BE SEALED, IF NECESSARY...

- 7. CROSSINGS OF MINOR WATERBODIES
UNLESS EXPRESSLY PERMITTED, MINOR WATERBODIES MAY BE CROSSED USING THE OPEN-CUT CROSSING METHOD, WITH THE FOLLOWING RESTRICTIONS:

- A. EXCEPT FOR BLASTING AND OTHER ROCK BREAKING MEASURES, COMPLETE INSTREAM CONSTRUCTION ACTIVITIES INCLUDING TRENCHING, PIPE INSTALLATION, BACKFILL, AND RESTORATION OF THE STREAMBED CONTOURS WITHIN 24 HOURS...

- 8. CROSSINGS OF INTERMEDIATE WATERBODIES
A. COMPLETE INSTREAM CONSTRUCTION ACTIVITIES (NOT INCLUDING BLASTING AND OTHER ROCK BREAKING MEASURES) WITHIN 48 HOURS...

- 9. CROSSINGS OF MAJOR WATERBODIES
BEFORE CONSTRUCTION, THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY FOR THE REVIEW AND WRITTEN APPROVAL BY THE DIRECTOR A DETAILED, SITE-SPECIFIC CONSTRUCTION PLAN AND SCALED DRAWINGS IDENTIFYING ALL AREAS TO BE DISTURBED...

- 10. TEMPORARY EROSION AND SEDIMENT CONTROL
INSTALL SEDIMENT BARRIERS (AS DEFINED IN SECTION IV.F.3.A OF THE PLAN) IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE WATERBODY OR ADJACENT UPLAND...

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

- 12. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 13. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 14. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 15. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 16. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 17. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 18. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 19. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

- 20. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WATERBODY...

VI. WETLAND CROSSINGS

A. GENERAL

1. THE PROJECT SPONSOR SHALL CONDUCT A WETLAND DELINEATION USING THE CURRENT FEDERAL METHODOLOGY AND FILE A WETLAND DELINEATION REPORT WITH THE SECRETARY BEFORE CONSTRUCTION...

- A. BY MILEPOST ALL WETLANDS THAT WOULD BE AFFECTED;
B. THE NATIONAL WETLANDS INVENTORY (NWI) CLASSIFICATION FOR EACH WETLAND;
C. THE CROSSING LENGTH OF EACH WETLAND IN FEET; AND

- 2. ROUTE THE PIPELINE TO AVOID WETLAND AREAS TO THE MAXIMUM EXTENT POSSIBLE, IF A WETLAND CANNOT BE AVOIDED OR CROSSED BY FOLLOWING AN EXISTING RIGHT-OF-WAY...

- 3. LIMIT THE WIDTH OF THE CONSTRUCTION RIGHT-OF-WAY TO 75 FEET OR LESS, PRIOR WRITTEN APPROVAL OF THE DIRECTOR IS REQUIRED WHERE TOPOGRAPHIC CONDITIONS OR SOIL LIMITATIONS REQUIRE THAT THE CONSTRUCTION RIGHT-OF-WAY WIDTH WITHIN THE BOUNDARIES OF A FEDERALLY DELINEATED WETLAND BE EXPANDED BEYOND 75 FEET...

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

- 5. IMPLEMENT THE MEASURES OF SECTIONS V AND VI IN THE EVENT A WETLAND CROSSING IS LOCATED WITHIN OR ADJACENT TO A WETLAND CROSSING, IF ALL MEASURES OF SECTIONS V AND VI CANNOT BE MET...

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

B. INSTALLATION

- 1. EXTRA WORK AREAS AND ACCESS ROADS
A. LOCATE ALL EXTRA WORK AREAS (SUCH AS STAGING AREAS AND ADDITIONAL SPOIL STORAGE AREAS) AT LEAST 50 FEET AWAY FROM WETLAND BOUNDARIES...

- B. THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY FOR REVIEW AND WRITTEN APPROVAL BY THE DIRECTOR, SITE-SPECIFIC JUSTIFICATION FOR EACH EXTRA WORK AREA WITH A LESS THAN 50-FOOT SETBACK FROM WETLAND BOUNDARIES...

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

- 2. CROSSING PROCEDURES
A. COMPLY WITH COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CONDITIONS;
B. ASSEMBLE THE PIPELINE IN AN UPLAND AREA UNLESS THE WETLAND IS DRY ENOUGH TO ADEQUATELY SUPPORT SKIDS AND PIPE...

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

- 4. INSTALL EROSION CONTROL FABRIC OR A FUNCTIONAL EQUIVALENT ON WATERBODY BANKS AT THE TIME OF FINAL BANK RECONTOURING...

- 5. APPLICATION OF RIPRAP FOR BANK STABILIZATION MUST COMPLY WITH COE, OR ITS DELEGATED AGENCY, PERMIT TERMS AND CONDITIONS...

- 6. INSTALL A PERMANENT SLOPE BREAKER ACROSS THE CONSTRUCTION RIGHT-OF-WAY AT THE BASE OF SLOPES GREATER THAN 5 PERCENT THAT ARE LESS THAN 30 FEET FROM THE WATERBODY...

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

- 8. REMOVE ALL PROJECT-RELATED MATERIAL USED TO SUPPORT EQUIPMENT ON THE CONSTRUCTION RIGHT-OF-WAY UNTIL COMPLETION OF CONSTRUCTION...

- 9. INSTALL SEDIMENT BARRIERS (AS DEFINED IN SECTION IV.F.3.A OF THE PLAN) IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE WETLAND OR ADJACENT UPLAND...

- 10. REGULATE DISCHARGE RATE, USE ENERGY DISSIPATION DEVICES, AND INSTALL SEDIMENT BARRIERS, AS NECESSARY, TO PREVENT EROSION, STREAMBED SCOUR, SUSPENSION OF SEDIMENTS, OR EXCESSIVE STREAMFLOW...

A. INSTALL SEDIMENT BARRIERS ACROSS THE ENTIRE CONSTRUCTION RIGHT-OF-WAY IMMEDIATELY UPLOPE OF THE WETLAND BOUNDARY AT ALL WETLAND CROSSINGS WHERE NECESSARY TO PREVENT SEDIMENT FLOW INTO THE WETLAND...

- 2. WHERE WETLANDS ARE ADJACENT TO THE CONSTRUCTION RIGHT-OF-WAY AND THE RIGHT-OF-WAY SLOPES TOWARD THE WETLAND, INSTALL SEDIMENT BARRIERS ALONG THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY AS NECESSARY TO CONTAIN SPOIL WITHIN THE CONSTRUCTION RIGHT-OF-WAY AND PREVENT SEDIMENT FLOW INTO THE WETLAND...

- 3. INSTALL SEDIMENT BARRIERS ALONG THE EDGE OF THE CONSTRUCTION RIGHT-OF-WAY AS NECESSARY TO CONTAIN SPOIL AND SEDIMENT WITHIN THE CONSTRUCTION RIGHT-OF-WAY THROUGH WETLANDS, REMOVE THESE SEDIMENT BARRIERS DURING RIGHT-OF-WAY CLEANUP...

- 4. TRENCH DEWATERING
DEWATER THE TRENCH (EITHER ON OR OFF THE CONSTRUCTION RIGHT-OF-WAY) IN A MANNER THAT DOES NOT CAUSE EROSION AND DOES NOT RESULT IN SILT-LADEN WATER FLOWING INTO ANY WETLAND...

- 5. WHERE THE PIPELINE TRENCH MAY DRAIN A WETLAND, CONSTRUCT TRENCH BREAKERS AT A WETLAND BOUNDARIES AND/OR SEAL THE TRENCH BOTTOM AS NECESSARY TO MAINTAIN THE ORIGINAL WETLAND HYDROLOGY...

- 6. UNTIL A PROJECT-SPECIFIC WETLAND RESTORATION PLAN IS DEVELOPED AND/OR IMPLEMENTED, TEMPORARILY REVEGETATE THE CONSTRUCTION RIGHT-OF-WAY WITH ANNUAL RYEGRASS AT A RATE OF 40 POUNDS/ACRE (UNLESS STANDING WATER IS PRESENT)...

- 7. ENSURE THAT ALL DISTURBED AREAS SUCCESSFULLY REVEGETATE WITH WETLAND HERBACEOUS AND/OR WOODY PLANT SPECIES...

- 8. POST-CONSTRUCTION MAINTENANCE AND REPORTING
1. DO NOT CONDUCT ROUTINE VEGETATION MOWING OR CLEARING OVER THE FULL WIDTH OF THE PERMANENT RIGHT-OF-WAY IN WETLANDS...

- 2. MONITOR AND RECORD THE SUCCESS OF WETLAND REVEGETATION ANNUALLY UNTIL WETLAND REVEGETATION IS SUCCESSFUL...

- 3. IF NATURAL RATHER THAN ACTIVE REVEGETATION WAS USED, THE PLANT SPECIES COMPOSITION SHALL BE CONSIDERED SUCCESSFUL IF ALL OF THE FOLLOWING CRITERIA ARE SATISFIED:

- A. THE AFFECTED WETLAND SATISFIES THE CURRENT FEDERAL DEFINITION FOR A WETLAND (I.E., SOILS, HYDROLOGY, AND VEGETATION);
B. VEGETATION IS AT LEAST 80 PERCENT OF EITHER THE COVER DOCUMENTED FOR THE WETLAND PRIOR TO CONSTRUCTION, OR AT LEAST 80 PERCENT OF THE COVER IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION...

- 6. WITHIN 3 YEARS AFTER CONSTRUCTION, FILE A REPORT WITH THE SECRETARY IDENTIFYING THE STATUS OF THE WETLAND REVEGETATION EFFORTS AND DOCUMENTING SUCCESS AS DEFINED IN SECTION VI.D.5. ABOVE, THE REQUIREMENT TO FILE WETLAND RESTORATION REPORTS WITH THE SECRETARY DOES NOT APPLY TO PROJECTS CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION, PRIOR NOTICE, OR ADVANCE NOTICE PROVISIONS IN THE FERCS REGULATIONS...

- 7. FOR ANY WETLAND WHERE REVEGETATION IS NOT SUCCESSFUL AT THE END OF 3 YEARS AFTER CONSTRUCTION, DEVELOP AND IMPLEMENT (IN CONSULTATION WITH A PROFESSIONAL WETLAND ECOLOGIST) A REMEDIAL REVEGETATION PLAN TO ACTIVELY REVEGETATE WETLANDS...

- 8. UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE" HEREIN, CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS...

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Table with 4 columns: REV./ISSUE, DATE, REV PER, N/DEP COMMENTS. Contains revision history from 08/24/18 to 01/15/20.

I AM A DAILY 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. 24G248222400

WILLIAM SALMON, P.E.
PS&S, LLC
1433 HIGHWAY 34, SUITE A-4, WALL, NJ 07727
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41310 COA NO. 24G2480327200

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
1433 ROUTE 34 SUITE A4 WALL, NJ 07727 PHONE: (848) 206-2626

CERTIFICATE OF AUTHORIZATION NO. 24G2480327200
ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR, NOTIFY PAULUS, SOKOLOWSKI AND SARTOR, LLC. OF ANY CONFLICTS, ERRORS, AMBIGUITIES OR DISCREPANCIES IN THESE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION...

PROJECT
NORTHEAST SUPPLY
ENHANCEMENT PROJECT
PROPOSED
COMPRESSOR STATION 206

BLOCK 5.02, LOTS 1.02 (FORMERLY 9, 10, 12, 16 & 17); 11.02, 20 (FORMERLY 23) & 25 TOWNSHIP OF FRANKLIN, SOMERSET COUNTY, NEW JERSEY

SHEET TITLE
CONSTRUCTION DETAILS

PROJECT NO.: 05731-0003 DRAWN BY: JPS
SCALE: AS SHOWN CHECKED BY: WS
DATE: 06-08-2018 SHEET 9 OF 9
SHEET NO. 9

Vertical text on the left margin containing project details and dates.