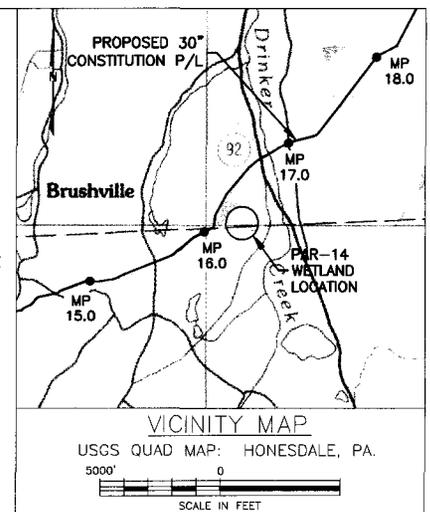
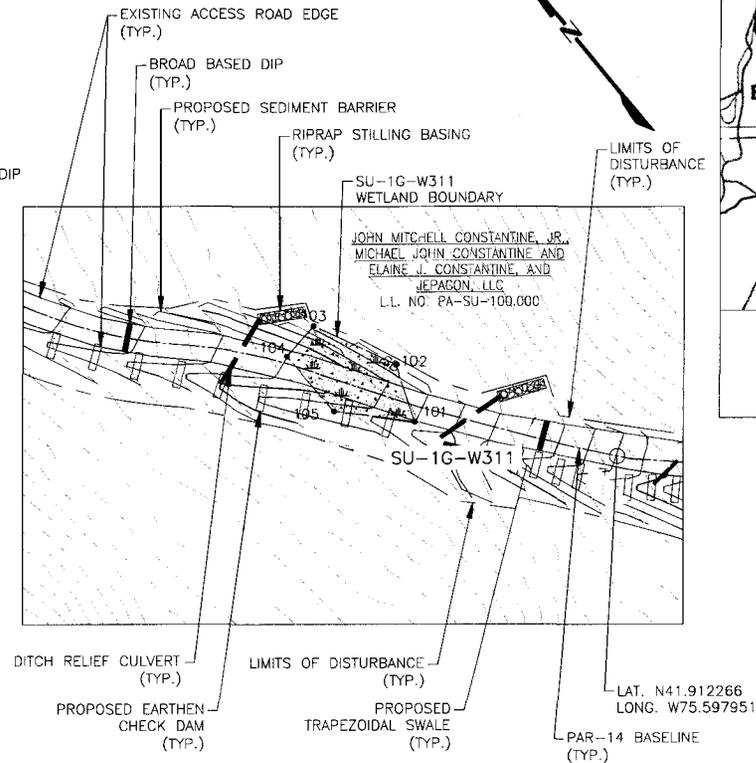
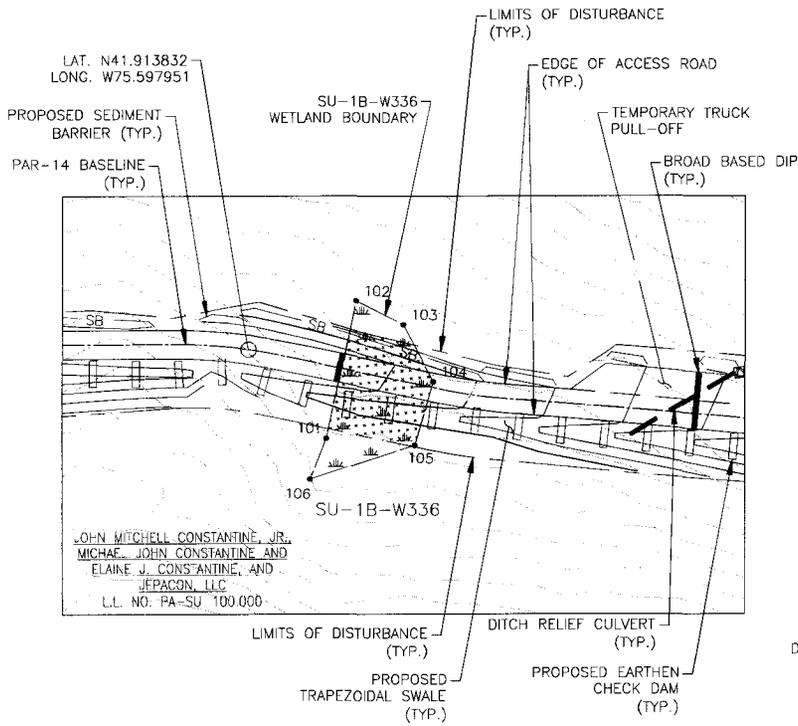


ATTACHMENT 7

Access Road Crossings - Pennsylvania

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- NOTES:**
1. NORTH ARROW IS REFERENCED TO THE COORDINATE SYSTEM UTM83-18F.
 2. ELEVATIONS ARE REFERENCED TO THE VERTICAL DATUM NAVD88.
 3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
 4. THE LOCATION OF ALL BMP'S (SWALES, SEDIMENT BARRIERS, ETC.) ARE FURTHER DETAILED ON THE ACCESS ROAD DESIGN DRAWINGS AND THE TYPICAL BEST MANAGEMENT PRACTICE DETAILS.
 5. WETLAND FIELD DELINEATION WAS COMPLETED BY AECOM.
 6. PROPOSED ACCESS ROADS WILL GENERALLY CONSIST OF A 12 FT. WIDE TRAVEL LANE ALONG STRAIGHT SECTIONS OF THE ROAD WITH WIDER WIDTHS REQUIRED AT ACCESS ROAD ENTRANCES AND AROUND CURVES TO ACCOMMODATE THE TURNING RADIUS OF ANTICIPATED CONSTRUCTION VEHICLES (I.E. 75 FT. LONG DROP-DECK LOWBOY TRAILER AND TRUCK).
 7. ALL PROPOSED TRUCK PULLOFFS ARE TEMPORARY AND WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.



CHRISTOPHER L. LOMBARDI
PA PROFESSIONAL ENGINEER
NO. PE081577

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			CONSTRUCTION			OPERATION				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1B-W336	PEM	39						0.03	N/A	Permanent Fill
SU-1G-W311	PFO	50				0.03			N/A	Permanent Fill

DRAWING NO.		REFERENCE TITLE	
28-26-85/PAR-14 SHEET 46		PROPOSED PERMANENT ACCESS ROAD	

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

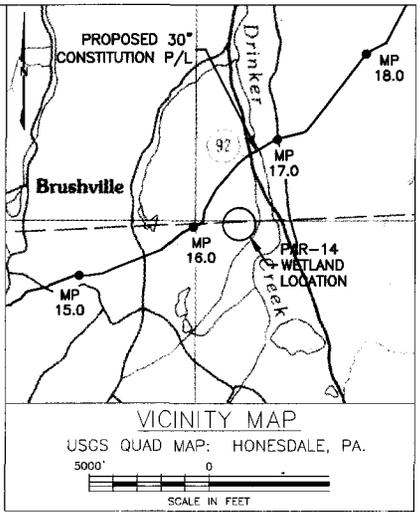
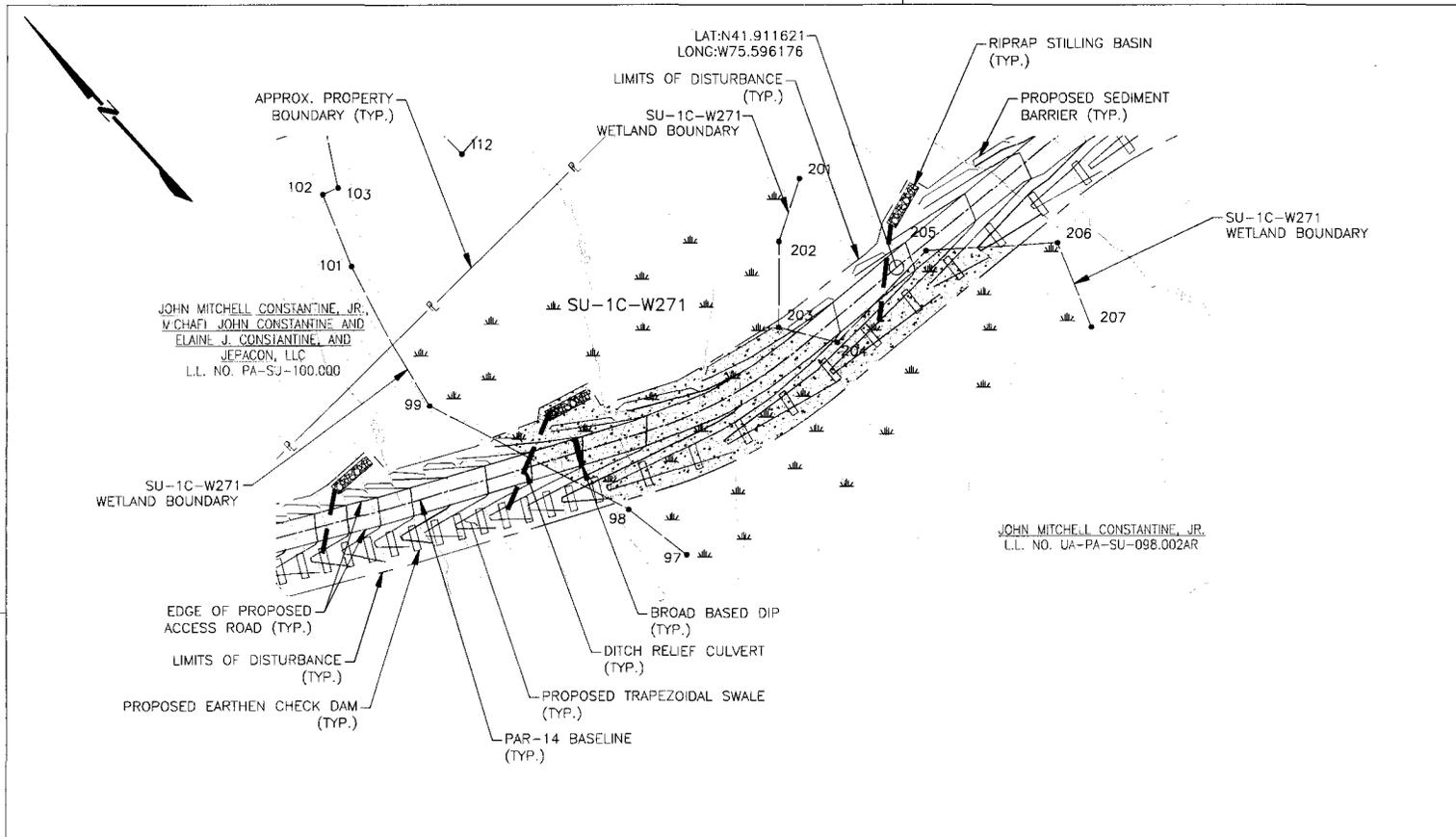
APPLICATION NO.: VAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1B-W336 AND SU-1G-W311
PERMANENT ACCESS ROAD - 14 @ MP 16.3
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: DATE: 10-7-2013 ISSUED FOR BID: SCALE: 1" = 50'

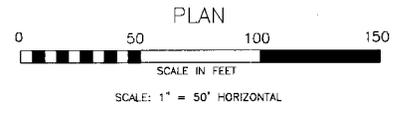
CHECKED BY: DATE: ISSUED FOR CONSTRUCTION:

APPROVED BY: DATE: DRAWING NUMBER: PAR-14-SU-1B-W336 & SU-1G-W311 SHEET 10 OF 20



JOHN MITCHELL CONSTANTINE, JR.
L.L. NO. UA-PA-SU-098.002AR

- NOTES:**
- GRID IS REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
 - ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
 - WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
 - THE LOCATION OF ALL BMP'S (SWALES, SEDIMENT BARRIERS, ETC.) ARE FURTHER DETAILED ON THE ACCESS ROAD DESIGN DRAWINGS AND THE TYPICAL BEST MANAGEMENT PRACTICE DETAILS.
 - WETLAND FIELD DELINEATION WAS COMPLETED BY AECOM.
 - PROPOSED ACCESS WIDTHS WILL GENERALLY CONSIST OF A 12 FT. WIDE TRAVEL LANE ALONG STRAIGHT SECTIONS OF THE ROAD WITH WIDER WIDTHS REQUIRED AT ACCESS ROAD ENTRANCES AND AROUND CURVES TO ACCOMMODATE THE TURNING RADIUS OF ANTICIPATED CONSTRUCTION VEHICLES (I.E. 75 FT. LONG DROP-DECK LOWBOY TRAILER AND TRUCK).
 - ALL PROPOSED TRUCK PULLOFFS ARE TEMPORARY AND WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.



CHRISTOPHER L. LOMBARDI
PA PROFESSIONAL ENGINEER
NO. PE081577

APPLICATION NO.: NAN-2012-00449-UBR

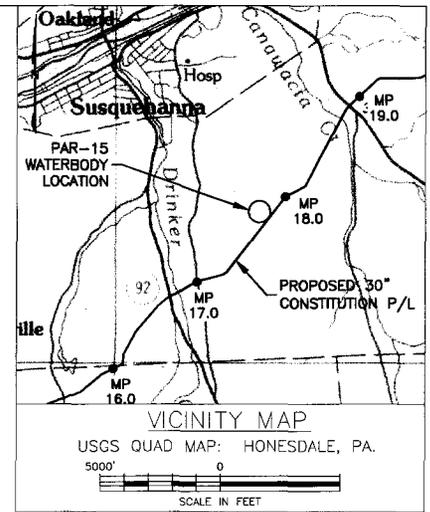
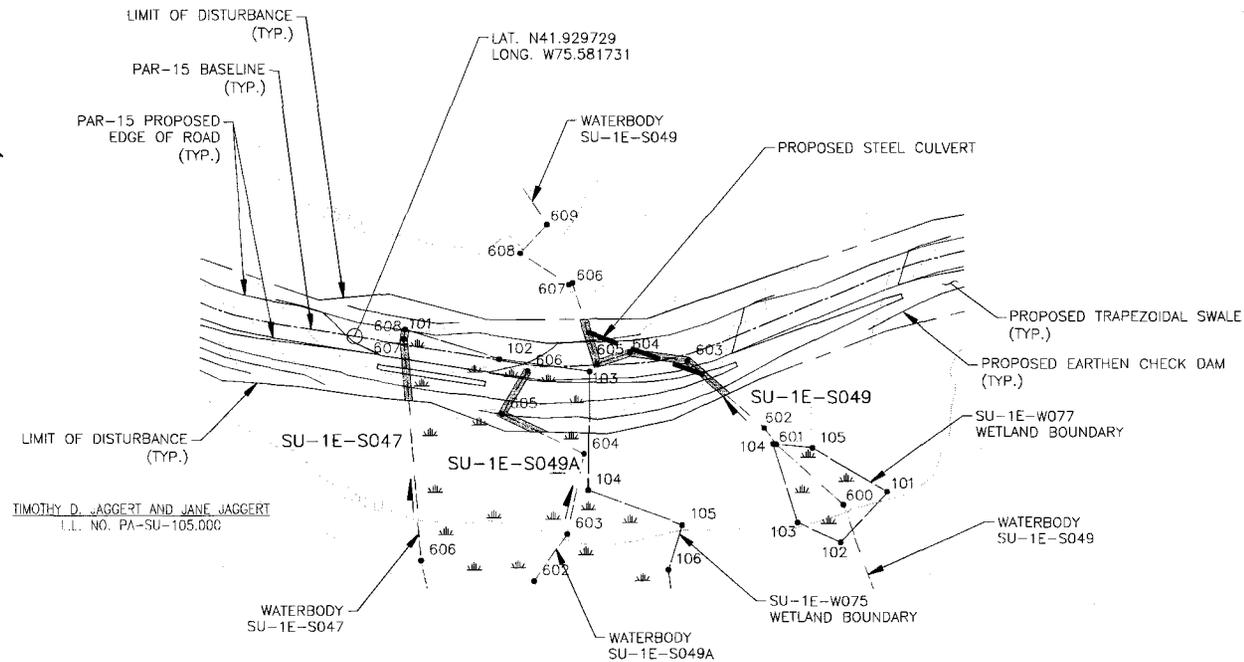
DRAWING NO.		REFERENCE TITLE								
26-26-85/PA-14 SH145		PROPOSED PERMANENT ACCESS ROAD								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE: 10-7-2013	ISSUED FOR BID:	SCALE: 1" = 50'
							CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
							APPROVED BY:	DATE:	DRAWING NUMBER:	PAR-14-SU-1C-W271
							WG:			SHEET 11 OF 20

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W271
PERMANENT ACCESS ROAD-14 @ MP 16.3
SUSQUEHANNA COUNTY, PENNSYLVANIA

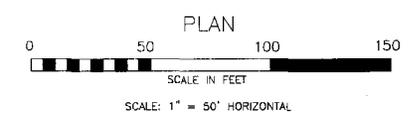


Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			CONSTRUCTION			OPERATION				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W271	PFO	132				0.17			N/A	Permanent Fill

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- NOTES:**
1. NORTH ARROW IS REFERENCED TO THE COORDINATE SYSTEM UTM83-18F.
 2. ELEVATIONS ARE REFERENCED TO THE VERTICAL DATUM NAVD83.
 3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
 4. THE LOCATION OF ALL BMP'S (SWALES, SEDIMENT BARRIERS, ETC.) ARE FURTHER DETAILED ON THE ACCESS ROAD DESIGN DRAWINGS AND THE TYPICAL BEST MANAGEMENT PRACTICE DETAILS.
 5. WETLAND AND WATERBODY FIELD DELINEATION WAS COMPLETED BY AECOM.
 6. AFTER REMOVAL OF TEMPORARY ACCESS ROADS THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE (1) FOOT IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
 7. PROPOSED ACCESS ROADS WILL GENERALLY CONSIST OF A 12 FT. WIDE TRAVEL LANE ALONG STRAIGHT SECTIONS OF THE ROAD WITH WIDER WIDTHS REQUIRED AT ACCESS ROAD ENTRANCES AND AROUND CURVES TO ACCOMMODATE THE TURNING RADIUS OF ANTICIPATED CONSTRUCTION VEHICLES (I.E. 75 FT. LONG DROP-DECK LOWBOY TRAILER AND TRUCK).
 8. ALL PROPOSED TRUCK PULLOFFS ARE TEMPORARY AND WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.



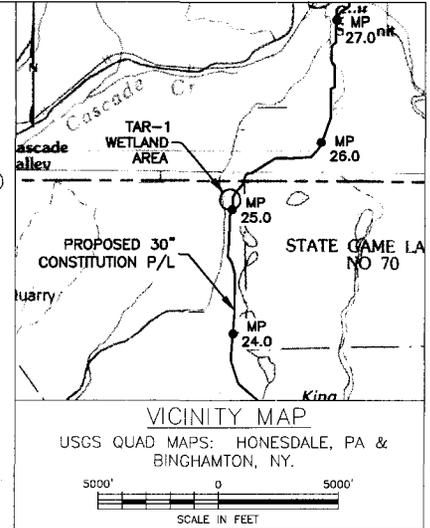
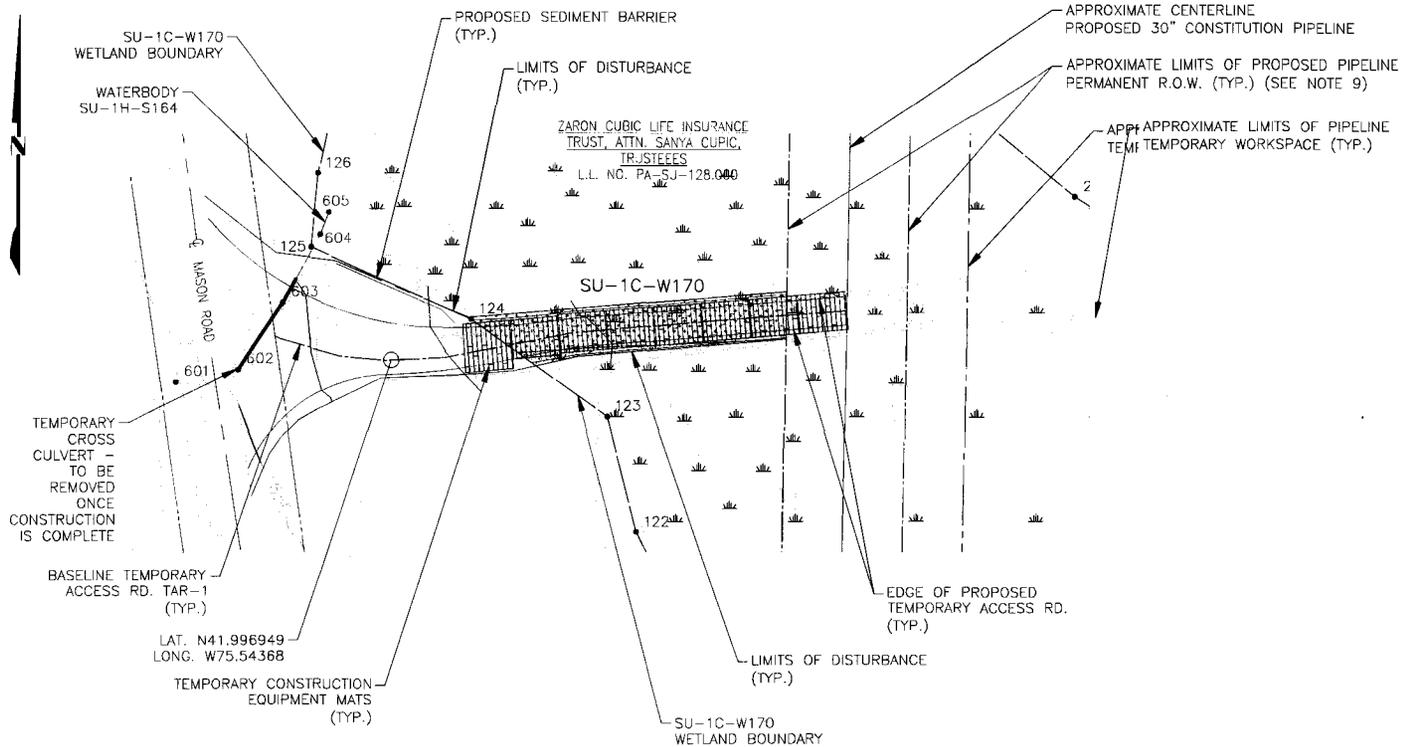
Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Construction	Operation			
SU-1E-S047	UNT TO CANAWACTA CREEK	EPHEMERAL	6		0.0021	CWF	N/A	Permanent Fill
SU-1E-S049A	UNT TO CANAWACTA CREEK	INTERMITTENT	0		0.0027	CWF	N/A	Permanent Fill
SU-1E-S049	UNT TO CANAWACTA CREEK	INTERMITTENT	18		0.0055	CWF	N/A	Permanent Culvert/Bridge

DRAWING NO. 28-28-BY/PAR-15.4 SH. 52		REFERENCE TITLE PROPOSED PERMANENT ACCESS ROAD		APPLICATION NO.: NAN-2012-00449-UBR			
CONSTITUTION PIPELINE COMPANY, LLC. WATER OBSTRUCTION & ENCROACHMENT PERMIT PROPOSED 30" NATURAL GAS PIPELINE WATERBODY SU-1E-S047, SU-1E-S049A, SU-1E-S049 PERMANENT ACCESS ROAD-15 @ MP 17.8 SUSQUEHANNA COUNTY, PENNSYLVANIA							
NO.	DATE	BY	REVISION DESCRIPTION				
DRAWN BY: GIE		DATE: 10-8-2013		ISSUED FOR BID:		SCALE: 1" = 50'	
CHECKED BY:		DATE:		ISSUED FOR CONSTRUCTION:			
APPROVED BY:		DATE:		DRAWING NUMBER:		PAR-15-SU-1E-S047 SU-1E-S049A/SU-1E-S049	
WO:						SHEET 12 OF 20	

CHRISTOPHER L. LOMBARDI
PA PROFESSIONAL ENGINEER
NO. PE081577

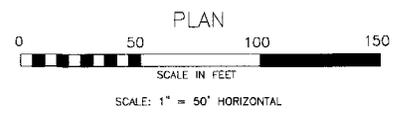
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C:\Users\lombardi\OneDrive\Documents\Map Data\MapData\2 Alignment\Sheet\2013-11-27\AccessRoad\SU-1C-W170-TAR-1-WetlandCrossing.dwg, File Date: 2013-11-27, Design by Lombardi



- NOTES:**
1. NORTH ARROW IS REFERENCED TO THE COORDINATE SYSTEM UTM83-18F.
 2. ELEVATIONS ARE REFERENCED TO THE VERTICAL DATUM NAVD83.
 3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
 4. THE LOCATION OF ALL BMP'S (SWALES, SEDIMENT BARRIERS, ETC.) ARE FURTHER DETAILED ON THE ACCESS ROAD DESIGN DRAWINGS AND THE TYPICAL BEST MANAGEMENT PRACTICE DETAILS.
 5. WETLAND FIELD DELINEATION WAS COMPLETED BY AECOM.
 6. PROPOSED ACCESS ROADS WILL GENERALLY CONSIST OF A 12 FT. WIDE TRAVEL LANE ALONG STRAIGHT SECTIONS OF THE ROAD WITH WIDER WIDTHS REQUIRED AT ACCESS ROAD ENTRANCES AND AROUND CURVES TO ACCOMMODATE THE TURNING RADIUS OF ANTICIPATED CONSTRUCTION VEHICLES (I.E. 75 FT. LONG DROP-DECK LOWBOY TRAILER AND TRUCK).
 7. ALL PROPOSED TRUCK PULLOFFS ARE TEMPORARY AND WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.
 8. TEMPORARY ACCESS ROAD 1 (TAR-1) WILL BE UTILIZED ONLY DURING CONSTRUCTION AND REMOVED ONCE CONSTRUCTION IS COMPLETE. THE DISTURBED AREA WILL BE RESTORED TO AS CLOSE TO PRE-CONSTRUCTION CONDITION AS PRACTICABLE ONCE CONSTRUCTION IS COMPLETE (E.G. EQUIPMENT MATS WILL BE REMOVED, CROSS CULVERT WILL BE REMOVED, AND WETLAND VEGETATION WILL BE REESTABLISHED).
 9. REFER TO THE SITE SPECIFIC WETLAND CROSSING DRAWINGS DEVELOPED FOR THE PIPELINE TEMPORARY WORKSPACE AND PERMANENT RIGHT OF WAY FOR TEMPORARY AND PERMANENT IMPACTS ASSOCIATED WITH CONSTRUCTION OF THE PIPELINE.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			CONSTRUCTION			OPERATION				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W170	PEM/PFO	142	0.01		0.05				N/A	Temporary Equipment Mats



DRAWING NO.		REFERENCE TITLE	
26-28-85/AR-1	S4164	TEMPORARY ACCESS ROAD	

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

CHRISTOPHER L. LOMBARDI

PA PROFESSIONAL ENGINEER
NO. PE081577

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
 WATER OBSTRUCTION & ENCROACHMENT PERMIT
 PROPOSED 30" NATURAL GAS PIPELINE
 WETLAND CROSSING SU-1C-W170
 TEMPORARY ACCESS ROAD TAR-1 @ MP 25.1
 SUSQUEHANNA COUNTY, PENNSYLVANIA

CHECKED BY: DATE: 10-7-2013 ISSUED FOR BID: SCALE: 1" = 50'

APPROVED BY: DATE: ISSUED FOR CONSTRUCTION:

DRAWING NUMBER: TAR-1-SU-1C-W170 SHEET 20 OF 20