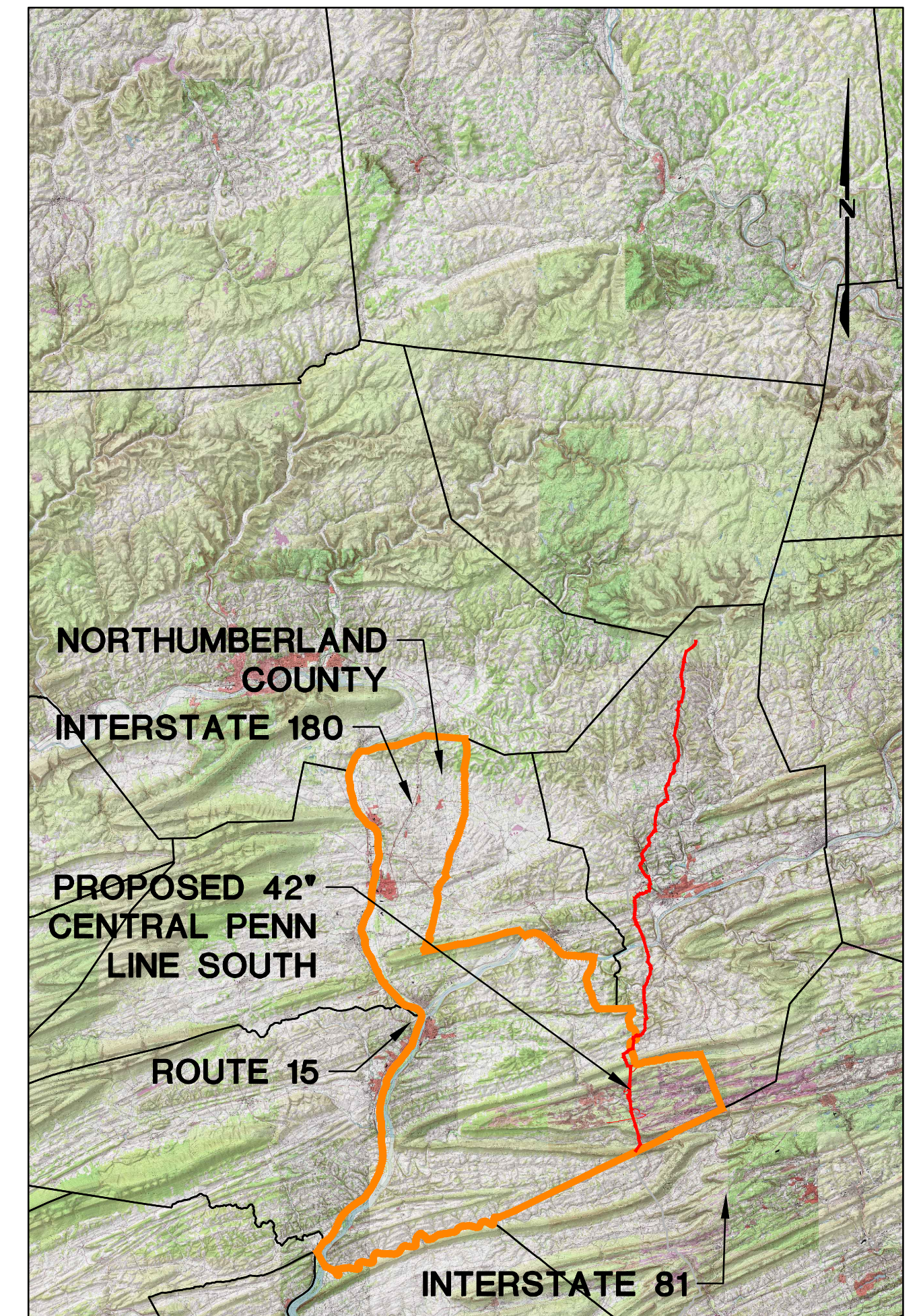
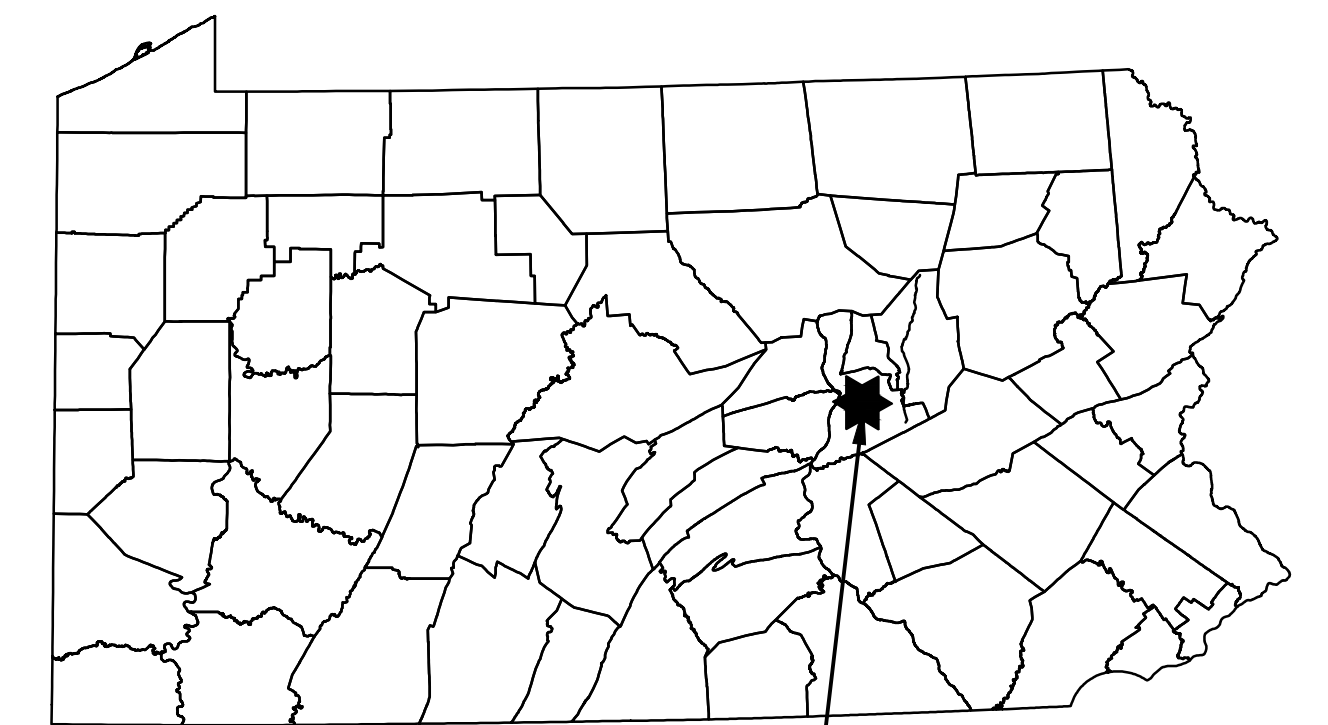


TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC POST CONSTRUCTION STORMWATER MANAGEMENT PLANS FOR PERMANENT ACCESS ROADS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY, PENNSYLVANIA



USGS MOUNT CARMEL, SHAMOKIN, TREMONT, AND VALLEY VIEW QUADRANGLES
VICINITY MAP
SCALE: 1"=50,000'



PROJECT
LOCATION

ROAD NAME & TYPE	DRAWING NO.	SHEET NO.	DRAWING NAME
GENERAL OVERALL	24-1600-70-28-A/LL113_9-AR-NO	1 of 3	COVER SHEET
		2 of 3	LOCATION MAP & ACCESS ROAD INDEX
		3 of 3	PCSM NOTES
AR-CO-085.1.3 Proposed Permanent	24-1600-70-28-A/LL113_9-AR-CO-085.1.3	1 of 1	ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

ABBREVIATIONS			
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	INV L LOD	INVERT LENGTH, LEFT LIMIT OF DISTURBANCE
ABACT	ANTIDegradation BEST AVAILABLE COMBINATION OF TECHNOLOGIES	MF MLV	MIGRATORY FISHES MAIN LINE VALVE
APPROX.	APPROXIMATE	N/A	NOT APPLICABLE
AR	ACCESS ROAD	PADEP	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AC.	ACRE/ACRES		
BMP	BEST MANAGEMENT PRACTICES	PR	PROPOSED
CWF	COLDWATER FISHES	R	RIGHT
D	DEPTH	RCP	REINFORCED CONCRETE PIPE
D.I.P.	DUCTILE IRON PIPE	STA	STATION
E&S	EROSION AND SEDIMENT CONTROL	TGPL	TRANSCONTINENTAL GAS PIPE LINE
ESCGP-2	EROSION AND SEDIMENT CONTROL	TSF	TROUT STOCKED FISHERY
	GENERAL PERMIT - 2	TYP.	TYPICAL
EV	EXCEPTIONAL VALUE	UNK	UNKNOWN
EX	EXISTING	UNT	UNNAMED TRIBUTARY
GTD	GRADE TO DRAIN	V	VERTICAL
H	HORIZONTAL	W	WIDTH
HQ	HIGH QUALITY	WWF	WARMWATER FISHES

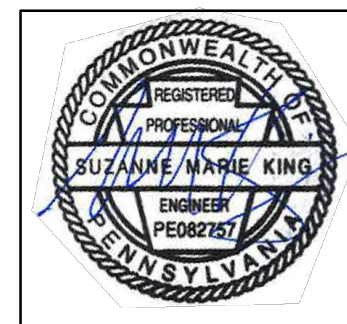
MAP UNIT NAME	MAP UNIT DESIGNATION	SOIL TYPES AND LIMITATIONS															
		CUTBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE	HYDRIC / HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
CaB	CALVIN-KLINESVILLE SHALY SILT LOAMS, 3 TO 8 PERCENT SLOPES	X	C/S	X	X			X		X	X	X	X				
CaC	CALVIN-KLINESVILLE SHALY SILT LOAMS, 8 TO 15 PERCENT SLOPES	X	C/S	X	X			X		X	X	X	X				
MkB	MECKESVILLE VERY STONY LOAM, 3 TO 8 PERCENT SLOPES	X	C/S			X			X	X	X	X	X				X

LEGEND
 X APPLIES TO SOIL
 C/S CORROSIVE TO STEEL
 C CORROSIVE TO CONCRETE
 C/S CORROSIVE TO STEEL AND CONCRETE



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH.

ENGINEER OF RECORD
BL COMPANIES
4242 CARLISLE PIKE, SUITE 260
CAMP HILL, PA 17011
P:717-651-9850
F:717-651-9858



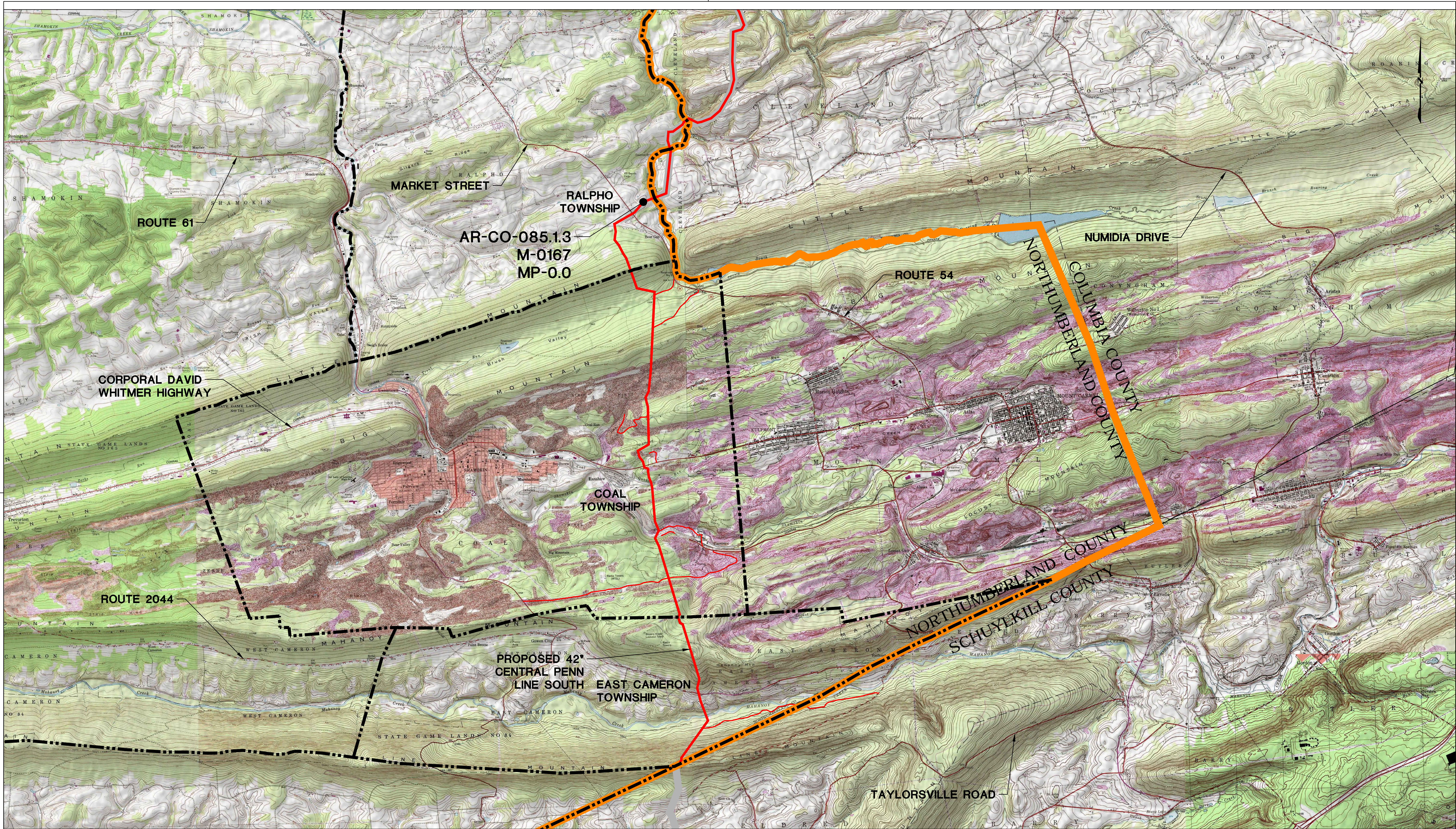
REVISIONS			
NO.	DATE	BY	DESCRIPTION
0	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1
1	APRIL 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
ATLANTIC SUNRISE PROJECT- PROPOSED 42" CENTRAL PENN LINE SOUTH
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
ACCESS ROADS
NORTHUMBERLAND COUNTY, PENNSYLVANIA

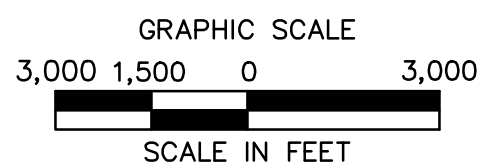
COVER SHEET

DRAWN BY: OLC/MS	DATE: 4/2015	ISSUED FOR BID:	SCALE:
CHECKED BY: DAK	DATE: 06/12/15	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: SMK	DATE: 07/07/15	DRAWING NUMBER:	SHEET 1
W.O. NO: W01161503	24-1600-70-28-A/LL113_9-AR-NO of 3		





Drawn By & Date/Time: Sking Apr 24, 2017 - 11:52am
Drawing Location & Name: G:\08514\14C\14C46909\DWG\020-CHLS\VAR_CV14C46909(20)_NDR.dwg



USGS MOUNT CARMEL, SHAMOKIN, TREMONT, AND VALLEY VIEW QUADRANGLES



LEGEND

-  TOWNSHIP LINE
-  COUNTY LINE
-  PROPOSED 42" CENTRAL PENN LINE SOUTH
-  EXISTING LEIDY/ TGPL PIPELINE



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH.



SUZANNE KING REG. NO. PE 082757
 ARCHITECTURE
 ENGINEERING
 ENVIRONMENTAL
 LAND SURVEYING

REVISIONS				W.D.	CHK.	APP.
NO.	DATE	BY	DESCRIPTION			
0	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1		DAK	SMK
1	APRIL 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2		DAK	SMK

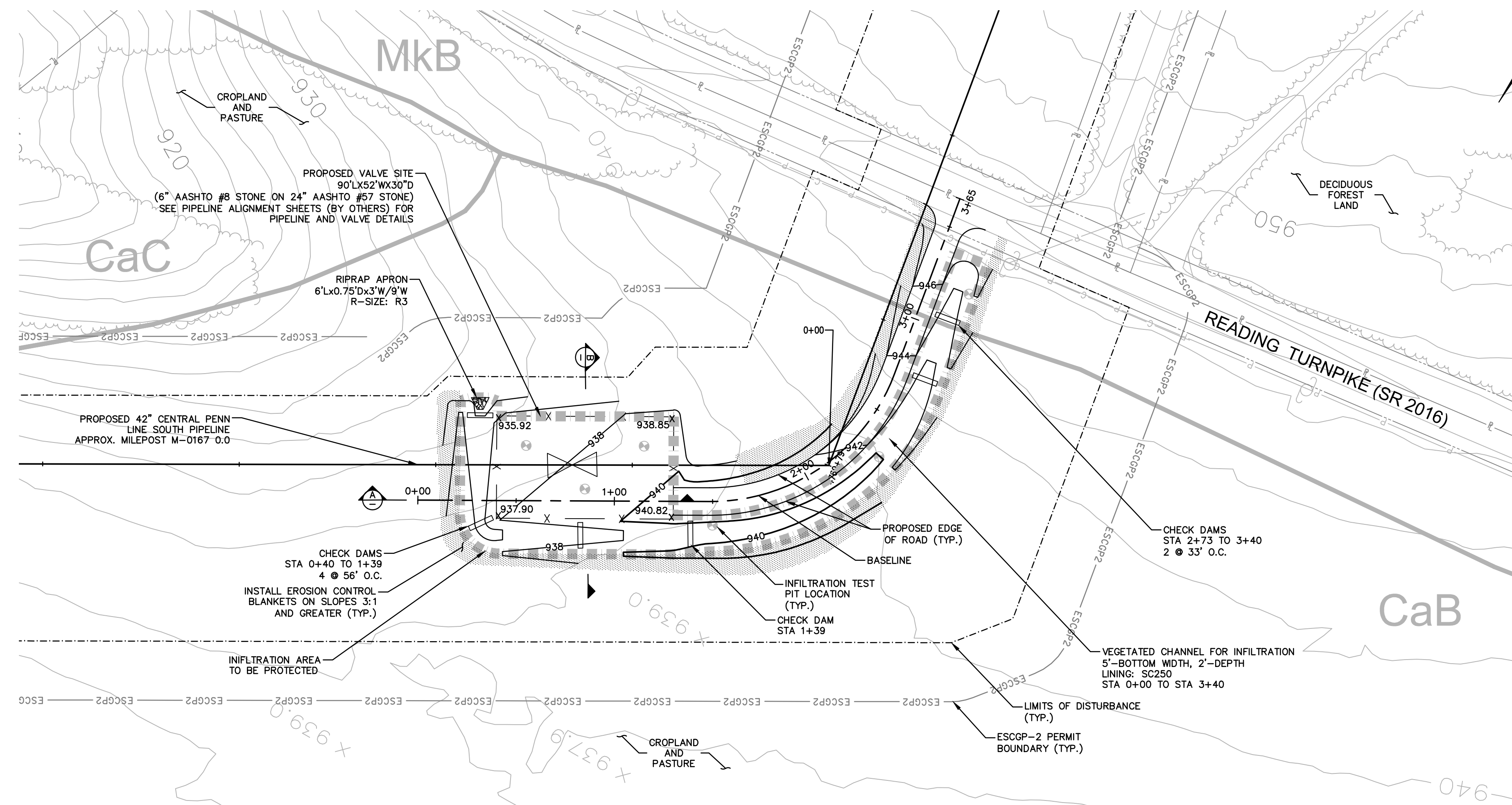
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC			
ATLANTIC SUNRISE PROJECT- PROPOSED 42" CENTRAL PENN LINE SOUTH			
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN			
ACCESS ROADS			
NORTHUMBERLAND COUNTY, PENNSYLVANIA			
LOCATION MAP & ACCESS ROAD INDEX			
DRAWN BY:	OLC/MS	DATE:	4/2015
CHECKED BY:	DAK	DATE:	06/12/15
APPROVED BY:	SMK	DATE:	07/07/15
W.D.:	W01161503	ISSUED FOR CONSTRUCTION:	
SCALE:		REVISION:	1
24-1600-70-28-A/LL113_9-AR-NO			SHEET 2
			OF 3



Drawn By & Date/Time: Sking Apr 24, 2017 - 3:24pm
 Drawing Location & Name: G:\0851\14C\14C4909\DWG\020-CPLS\VAR_CV14C4909(00).NOR.dwg

SITE RESTORATION

- RESTORATION OF THE ACCESS ROAD ROW WILL INCLUDE, BUT IS NOT LIMITED TO, RESTORATION OF EXISTING CONTOURS, RESTORATION OF EXISTING ROADS, DECOMPACTION, AND SEEDING.
- RESTORATION STEPS ARE DESCRIBED IN THE SEQUENCE OF CONSTRUCTION PROVIDED ON THE SOIL EROSION CONTROL PLAN AND IN THE ROAD-SPECIFIC APPENDIX OF THE COUNTY NARRATIVE.
- ONCE THE TEMPORARY ACCESS ROAD IS NO LONGER NECESSARY, THE GRAVEL AND GEOTEXTILE FABRIC FROM THE TEMPORARILY IMPROVED SECTIONS WILL BE REMOVED AND DISPOSED OF AT A SUITABLE DISPOSAL OR RECYCLING SITE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. STONE ADDED TO EXISTING GRAVEL ROADS WILL REMAIN IN PLACE.
- DISTURBED AREAS OUTSIDE EXISTING ROAD AREAS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS. THE SUBSOIL WILL BE DE-COMPACTED AND TOPSOIL WILL BE SPREAD OVER THE DISTURBED AREA. DISTURBED AREAS WILL BE SEEDING AND STABILIZED WITH MULCH OR EROSION CONTROL BLANKETS AS APPLICABLE.
- EROSION CONTROL BLANKETS (ECB) SHALL BE INSTALLED IN THE FOLLOWING AREAS OF DISTURBANCE:
 - AREAS WITHIN 50 FEET OF A STREAM OR WETLAND (DS75 NORTH AMERICAN GREEN OR APPROVED EQUAL).
 - AREAS WITHIN 100 FEET OF HQ OR EV STREAMS AND WETLANDS (DS75 NORTH AMERICAN GREEN OR APPROVED EQUAL).
 - SLOPES EQUAL TO 3:1 OR GREATER (SC150 NORTH AMERICAN GREEN OR APPROVED EQUAL).
- E&S BMPs, SUCH AS COMPOST FILTER SOCK AND FILTER SOCK DIVERSIONS, SHALL REMAIN IN PLACE UNTIL THE SITE WORK IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED OVER NON-EXISTING ROADWAY DISTURBED AREAS. IN AGRICULTURAL USE AREAS, AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION IF THE AREA HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, THE AREA HAS A PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS, OR IF AN AREA EXHIBITS ANY GROUND COVER CONDITIONS NORMALLY ASSOCIATED WITH ACTIVE AGRICULTURAL PRACTICES, INCLUDING BUT NOT LIMITED TO BARE EARTH ON CULTIVATED LAND, TEMPORARY VEGETATIVE COVER ON CULTIVATED LAND, OR PASTURE NOT MEETING A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER.
- RESTORATION WILL PREDOMINATELY OCCUR WITHIN THE AREA LABELED "AREA TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS." DISTURBED AREAS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS (AS SHOWN ON THIS PLAN AND THE ROADWAY LAYOUT AND PROFILE PLAN), EXISTING ROADWAY SURFACES AND WIDTHS WILL BE RESTORED AND NON-EXISTING ROADWAY AREAS WILL BE SEEDING TO REESTABLISH VEGETATIVE COVER.
- THE "AREA OF MINIMUM DISTURBANCE/REDUCED GRADING" IS THE AREA WITHIN THE LOD AREA THAT IS OUTSIDE THE PROPOSED GRADING AREA. DISTURBANCES WITHIN THE AREA OF MINIMUM DISTURBANCE/REDUCED GRADING WILL BE MINIMAL. THEREFORE, THE SITE RESTORATION IN THE AREA OF MINIMUM DISTURBANCE/REDUCED GRADING MAY NOT REQUIRE RESTORATION OR MAY BE LIMITED TO SEEDING STOCKPILE AREAS, IF APPLICABLE, TO RESTORE VEGETATION THAT MAY HAVE BEEN IMPACTED BY THE STOCKPILE.
- PROPOSED IMPROVEMENTS ON THE PERMANENT ACCESS ROADS TO THE MLV SITES ARE PERMANENT AND WILL BE MAINTAINED BY TRANSCO AS DESCRIBED IN THE LONG TERM OPERATION AND MAINTENANCE SCHEDULE SHOWN ON SHEET 3 OF 3 AT THE BEGINNING OF THIS PCSM PLAN.



ESCGP-2 PERMIT TABLE

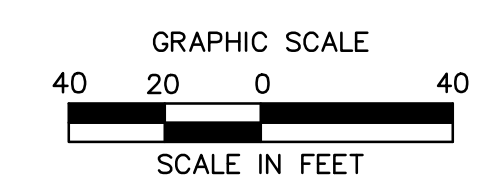
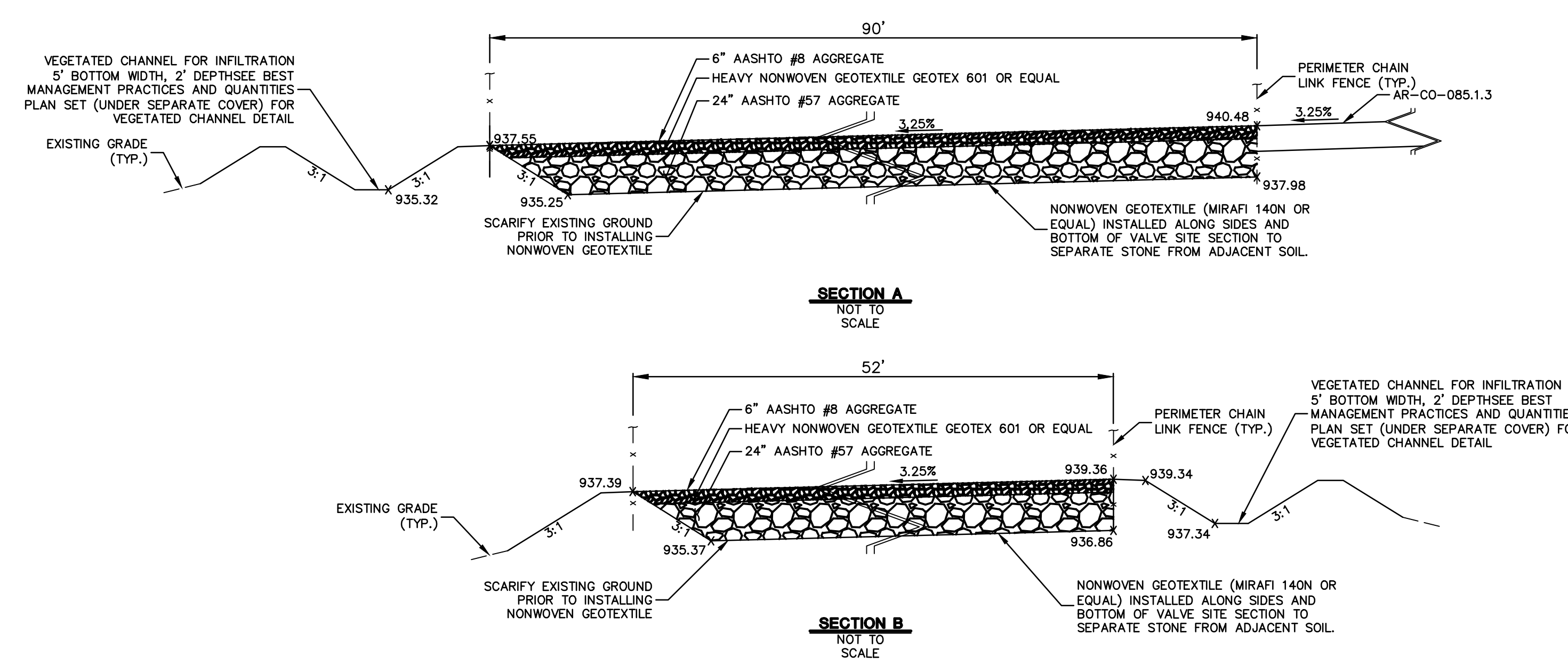
LIMIT OF DISTURBANCE:	ACCESS ROAD	VALVE WITHIN PIPELINE ROW	TOTAL	LOD AREA WITHIN FLOODWAY/FLOODPLAIN	AREA OF RIPARIAN FOREST BUFFER	AREA OF MINIMUM DISTURBANCE/REDUCED GRADING	STORMWATER MANAGEMENT AREA	AREA CONTROLLED BY BMPs
	0.00 AC.	1.32 AC.	1.32 AC.	0.00 AC.	0.00 AC.	0.00 AC.	1.32 AC.	0.36 AC.

SITE SOIL TYPES

SEE COVER SHEET FOR SOIL TYPE LIMITATIONS

RECEIVING WATERS

UNT TO MILLER RUN CWF, MF
CHAPTER 303(D) IMPAIRMENT: SOURCE UNKNOWN (PATHOGENS)



SUZANNE KING REG. NO. PE 082757
DATE: SEE PCSM NOTES SHEET 3 OF 3 FOR EXISTING AND PROPOSED FEATURES LEGEND

REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.D. NO.	CHK. APP.
0	07/17/2015	BL	ISSUED FOR PADEP SUBMITTAL	1161503	DAK SMK
1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	1161503	DAK SMK
2	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	1161503	DAK SMK
3	APRIL 2017	BL	MODIFICATION #2 ISSUED FOR PADEP SUBMITTAL	1161503	DAK SMK

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
ATLANTIC SUNRISE PROJECT - PROPOSED 42" CENTRAL PENN LINE SOUTH
ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
PERMANENT ACCESS ROAD
AR-CO-085.1.3 RALPHO TOWNSHIP,
NORTHUMBERLAND COUNTY, PENNSYLVANIA

Williams
GAS PIPELINE

DRAWN BY: OLC/MS	DATE: 4/2015	ISSUED FOR BID:	SCALE: 1"=40'
CHECKED BY: DAK	DATE: 06/12/15	ISSUED FOR CONSTRUCTION:	REVISION: J
APPROVED BY: SMK	DATE: 07/07/15	DRAWING NUMBER: 24-1600-70-28-A/LL113_9-AR-CO-085.1.3	SHEET 1 OF 1

Drawn By & Date/Time: Sking Apr 26, 2017 - 5:13pm
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