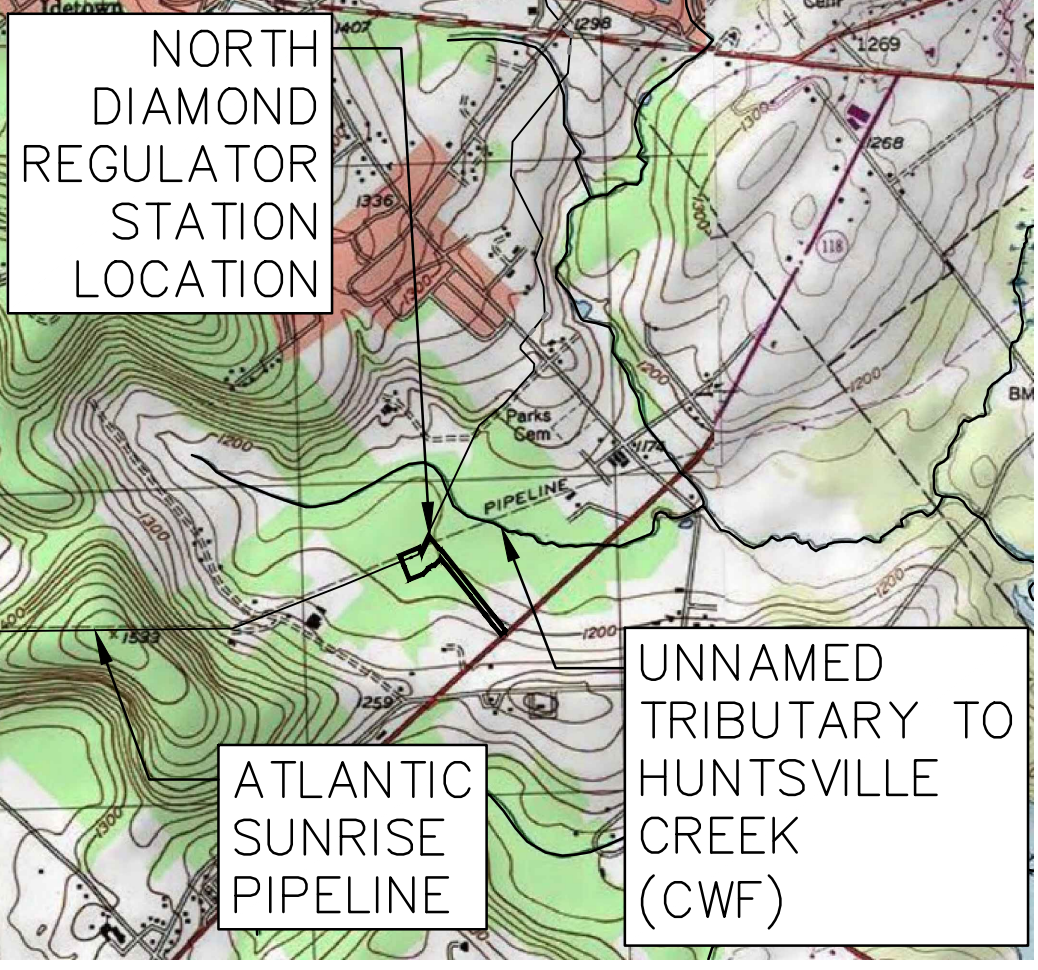


ATLANTIC SUNRISE PROJECT PROPOSED 30" NATURAL GAS PIPELINE

SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR NORTH DIAMOND REGULATOR STATION & ASSOCIATED PERMANENT ACCESS ROADS



USGS HARVEYS LAKE QUADRANGLE
VICINITY MAP
SCALE: 1"=2,000'

PHASE 2

LEHMAN TOWNSHIP
LUZERNE COUNTY

PENNSYLVANIA

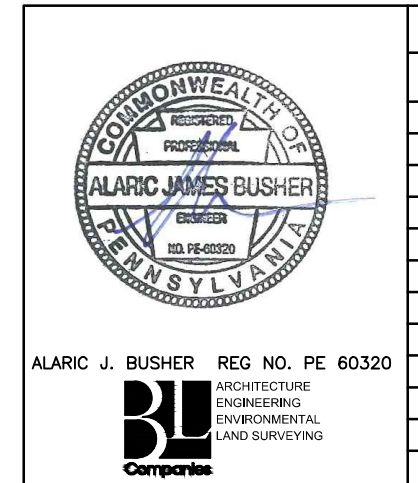
FACILITY NAME & TYPE	DRAWING NO.	SHEET NO.	DRAWING NAME
NORTH DIAMOND REGULATOR STATION	(36-7935)MF-1A-11	1 of 13	COVER SHEET <i>REVISED</i>
	(36-7935)MF-1A-11	2 of 13	EXISTING CONDITIONS MAP
	(36-7935)MF-1A-11	3 of 13	EXISTING CONDITIONS MAP
	(36-7935)MF-1A-11	4 of 13	OVERALL DRAINAGE AREA MAP
	(36-7935)MF-1A-11	5 of 13	SOIL EROSION & SEDIMENT CONTROL PLAN <i>REVISED</i>
	(36-7935)MF-1A-11	6 of 13	SOIL EROSION & SEDIMENT CONTROL PLAN
	(36-7935)MF-1A-3	7 of 13	ACCESS ROAD LU-013.1 LAYOUT PLAN <i>REVISED</i>
	(36-7935)MF-1A-3	8 of 13	ACCESS ROAD LU-013.1 LAYOUT PLAN
	(36-7935)MF-1A-11	9 of 13	SOIL EROSION & SEDIMENT CONTROL NOTES
	(36-7935)MF-1A-11	10 of 13	SOIL EROSION & SEDIMENT CONTROL NOTES
	(36-7935)MF-1A-11	11 of 13	SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS
	(36-7935)MF-1A-11	12 of 13	SOIL EROSION & SEDIMENT CONTROL DETAILS
	(36-7935)MF-1A-11	13 of 13	SOIL EROSION & SEDIMENT CONTROL DETAILS

Drawn By & Date/Time: rkiernon Jul 28, 2017 - 1:11pm
Drawing Location & Name: G:\08514\14C\14C4909\DWG\010-CPLN\FRS_CV14C4909\10_EC-LUZ-INDIAMOND.dwg



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.

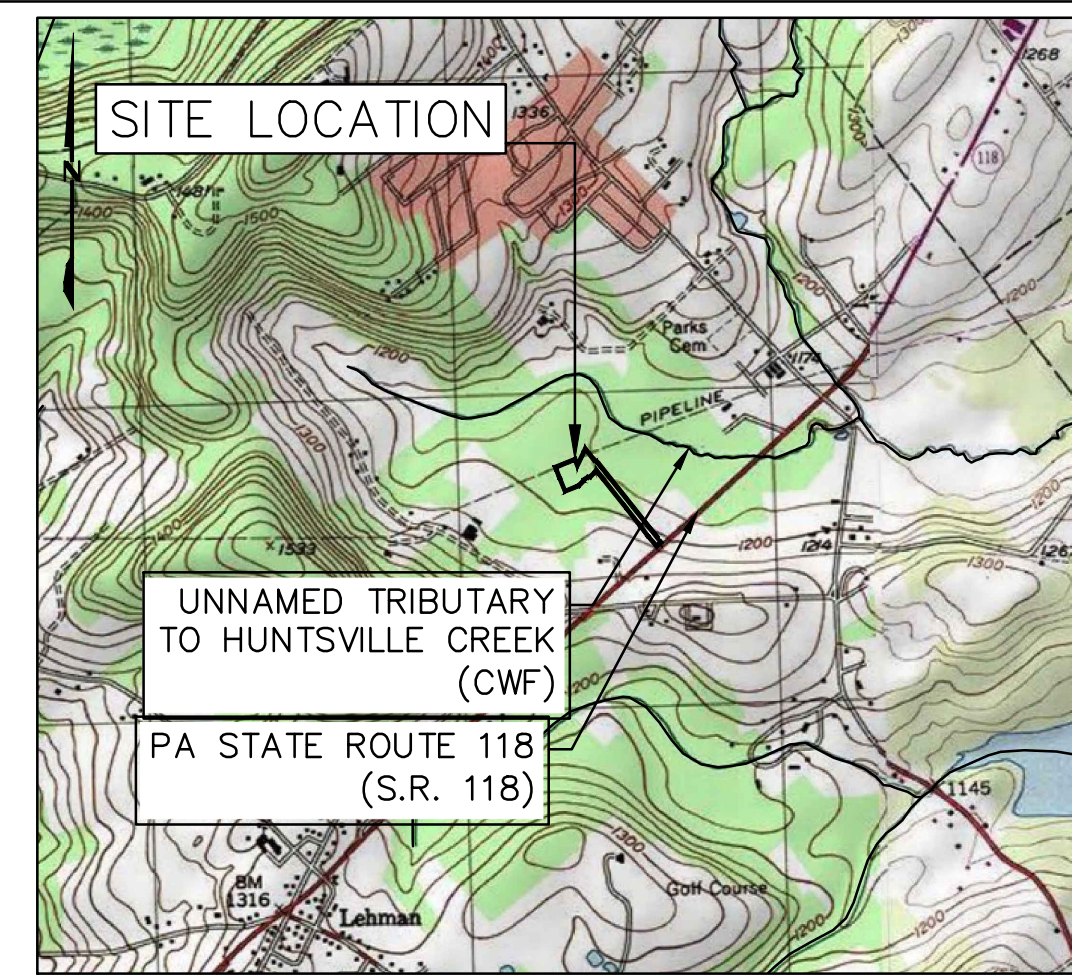
ENGINEER OF RECORD
BL COMPANIES
4242 CARLISLE PIKE, SUITE 260
CAMP HILL, PA 17011
P:717-651-9850
F:717-651-9858



REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/26/2015	BL	ISSUED FOR PADEP PERMIT SUBMITTAL	W0161499	DAK	AJB
1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	W0161499	DAK	AJB
3	03/26/2016	BL	ISSUED FOR PADEP RESUBMITTAL	W0161499	DAK	AJB
4	Oct. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	W0161499	AJB	AJB
5	Apr 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2	W0161499	AJB	AJB
6	AUG 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #3	W0161499	AJB	AJB

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC			
ATLANTIC SUNRISE PROJECT- PROPOSED 30" NATURAL GAS PIPELINE			
SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR NORTH			
DIAMOND REGULATOR STATION & ASSOCIATED PERMANENT ACCESS ROADS			
LEHMAN TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA			
COVER SHEET			
DRAWN BY:	JEC	DATE:	04/03/15
CHECKED BY:	AJB	DATE:	04/03/15
APPROVED BY:	AJB	DATE:	07/17/15
W.O. NUMBER:	1161499	DRAWING NUMBER:	(36-7935)MF-1A-11
SCALE:	AS NOTED	REVISION:	6
		SHEET:	1
		OF:	13





LOCATION MAP

USGS HARVEYS LAKE QUADRANGLE
SCALE: 1"=2,000'

LEGEND

- PROPOSED FEATURES**
- PROPOSED MAJOR CONTOUR (10' INTERVAL)
 - PROPOSED MINOR CONTOUR (2' INTERVAL)
 - PROPOSED MINOR CONTOUR (1' INTERVAL)
 - LIMIT OF DISTURBANCE (NORTH DIAMOND REGULATOR STATION)
 - LIMIT OF WORKSPACE (OVERALL PIPELINE PROJECT)
 - ESCGP-2 PERMIT BOUNDARY
 - FD FILTER SOCK DIVERSION
 - SS SEDIMENT BARRIER
 - X X ORANGE CONSTRUCTION FENCE
 - CENTERLINE GAS PIPELINE
 - SWALE LINING
 - EROSION CONTROL BLANKET (SC150, OR APPROVED EQUAL)
 - ROCK OUTLET/RIPRAP APRON
 - PROPOSED ACCESS ROAD
 - SEDIMENT BARRIER DESIGNATION (SEE SHEET 12)
 - ROCK CONSTRUCTION ENTRANCE
 - BAFFLE
 - TRM LINING
 - CLAY CORE LIMITS
 - EXISTING MAJOR CONTOUR (10' INTERVAL)
 - EXISTING MINOR CONTOUR (2' INTERVAL)
 - BROAD-BASED DIP

SITE SOIL TYPES

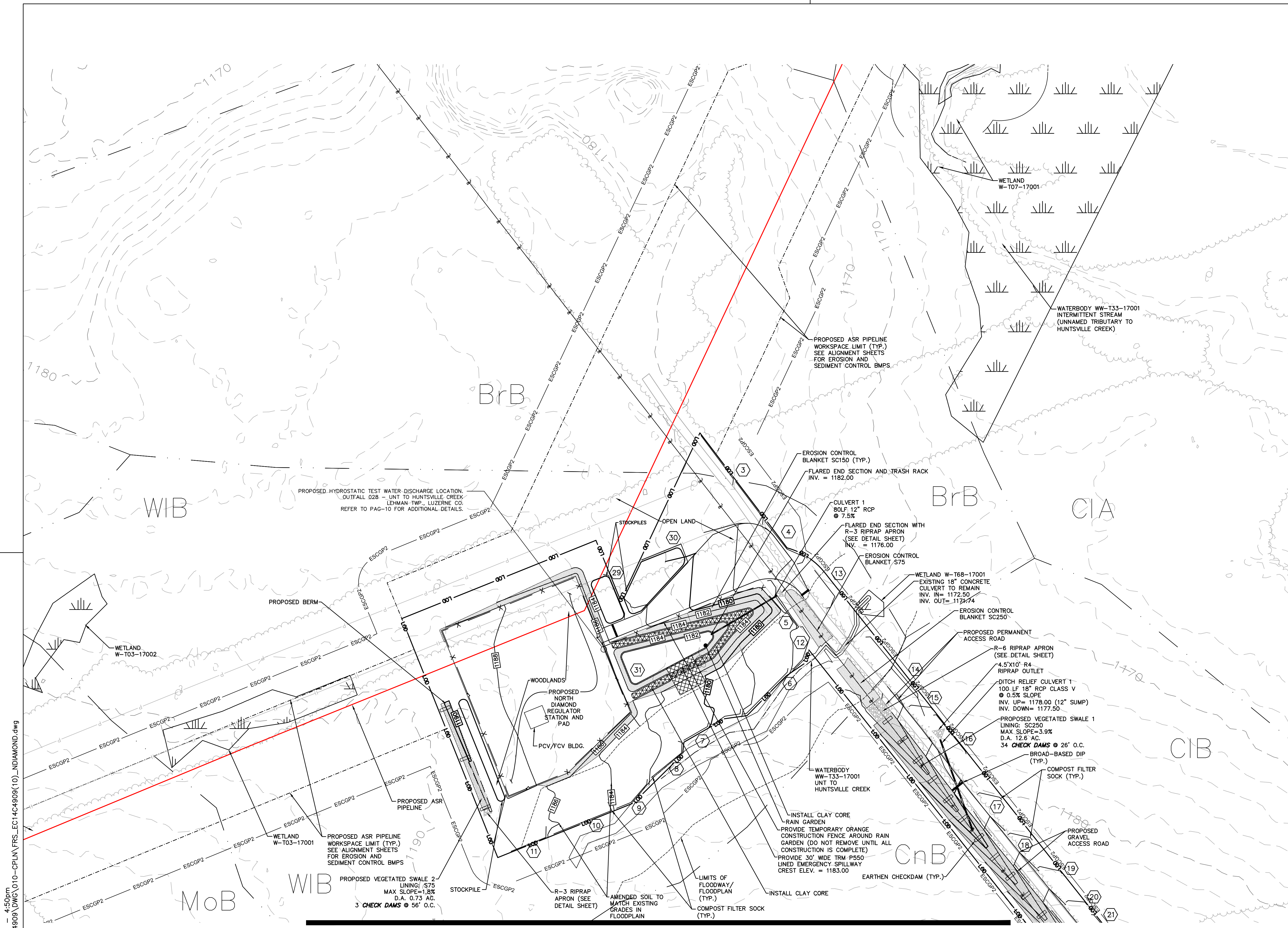
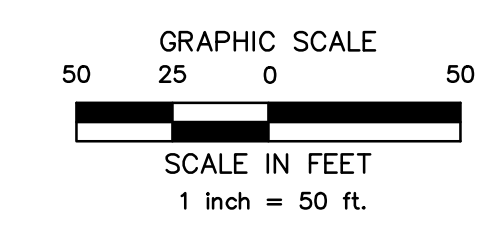
- BrB BRACEVILLE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES
- CIB CHIPPEWA SILT LOAM, 3 TO 8 PERCENT SLOPES
- CnB CHIPPEWA SILT LOAM, 0 TO 8 PERCENT SLOPES
- LoB LACKAWANNA CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
- WIB WELLSBORO CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES
- WC WELLSBORO CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES
- NO SOILS WITHIN SITE LOD ARE KNOWN TO PRODUCE ACIDIC STORMWATER RUNOFF.

LIMIT OF DISTURBANCE

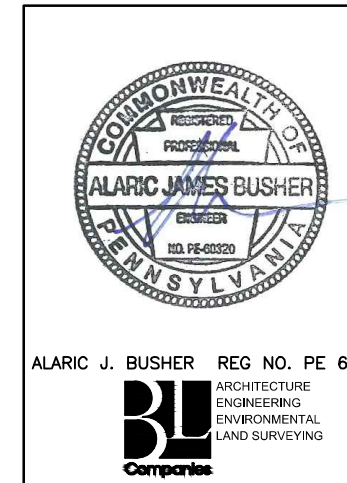
AREA OF THE LIMIT OF DISTURBANCE IS:
±163,602 SF / 3.76 AC.

RECEIVING WATERCOURSE - CHAPTER 93 DESIGNATION

THE RECEIVING WATERCOURSE IS UNNAMED TRIBUTARY TO HUNTSVILLE CREEK CWF
APPROXIMATE DISTANCE FROM SITE TO UNT TO HUNTSVILLE CREEK: ±500 FT (NORTHEAST)



MATCH LINE: SEE SHEET NO. 6



REVISIONS			
NO.	DATE	BY	DESCRIPTION
0	08/26/2015	BL	ISSUED FOR PADEP PERMIT SUBMITTAL
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6	AUG. 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #3

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC			
ATLANTIC SUNRISE PROJECT- PROPOSED 30" NATURAL GAS PIPELINE			
SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR NORTH DIAMOND REGULATOR STATION & ASSOCIATED PERMANENT ACCESS ROADS			
LEHMAN TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA			
SOIL EROSION & SEDIMENT CONTROL PLAN			
DRAWN BY:	JEC	DATE:	04/03/15
CHECKED BY:	AJB	DATE:	04/03/15
APPROVED BY:	AJB	DATE:	07/17/15
W.D. NO.:	1161499	APP.:	AJB
ISSUED FOR CONSTRUCTION:			SCALE: AS NOTED
DRAWING NUMBER: (36-7935)MF-1A-11			REVISION: 6
SHEET 5			OF 13

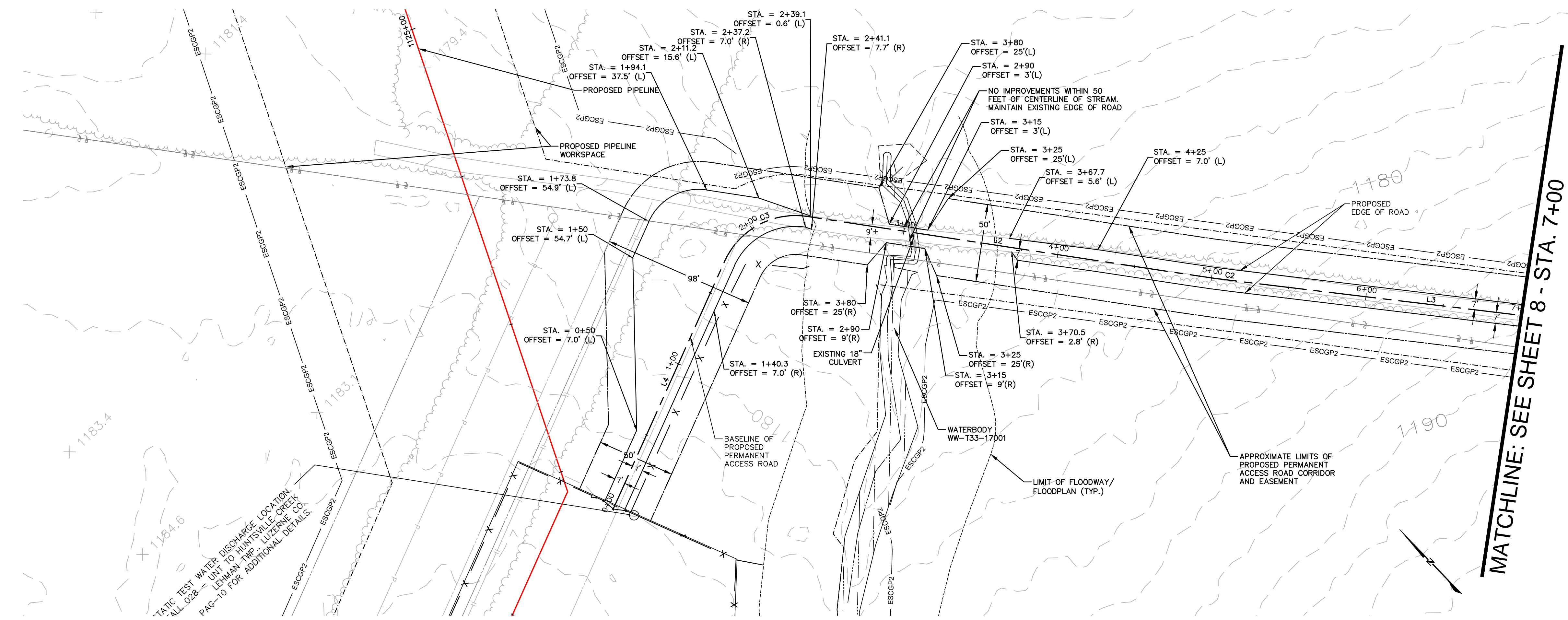
Drawn By & Date/Time: hthomas Jul 26, 2017 - 4:50pm
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GENERAL ACCESS ROAD NOTES

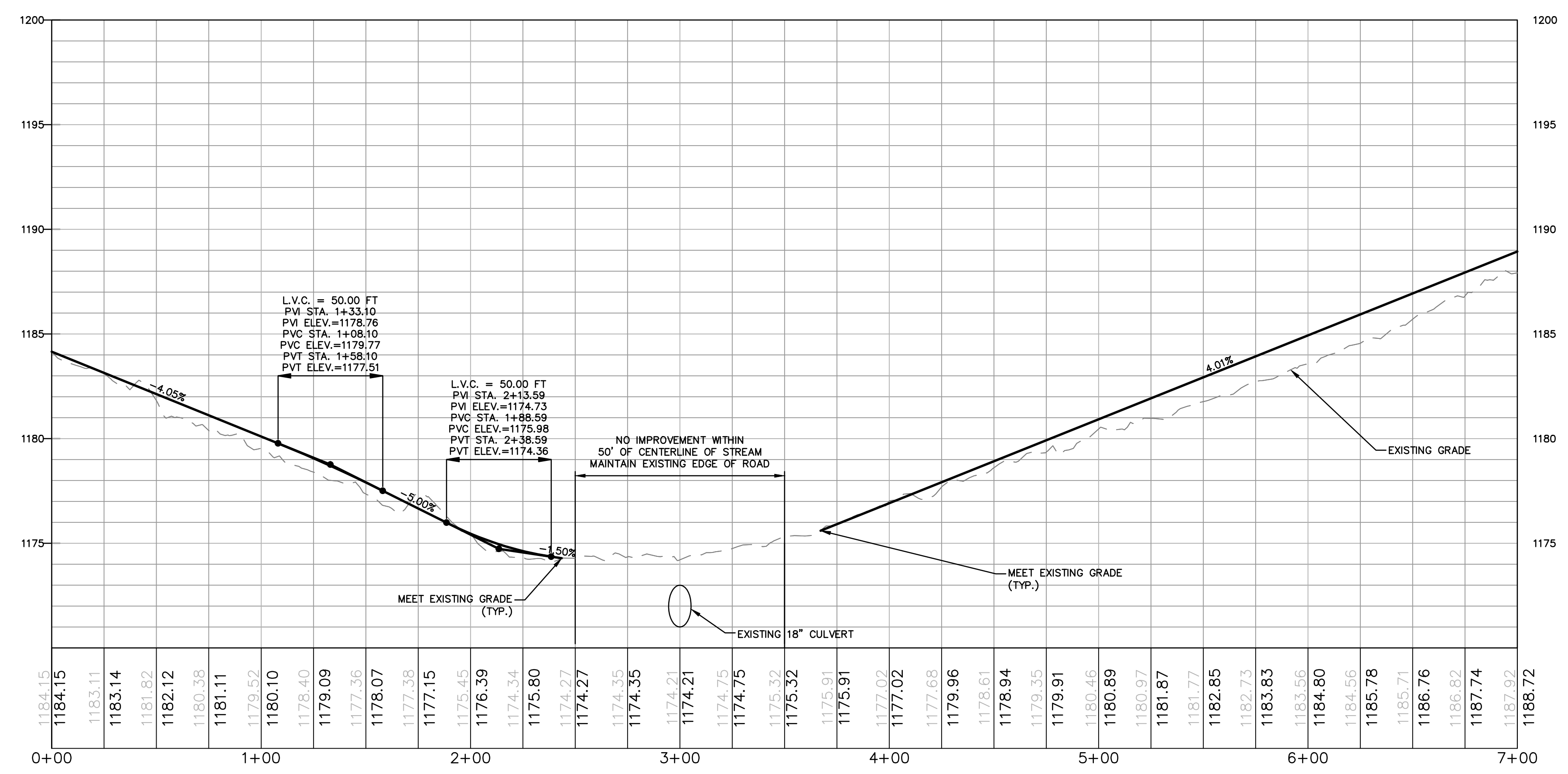
1. THE CONTRACTOR SHALL CONTACT PA ONE CALL A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. TRANSITIONS BETWEEN TYPICAL ACCESS ROAD SECTIONS SHALL OCCUR OVER 50 FEET.
3. NO EARTH DISTURBING IMPROVEMENTS ARE PROPOSED WITHIN FLOODWAYS TO MINIMIZE IMPACTS.
4. **DISTURBANCE OUTSIDE THE PROPOSED LIMITS OF GRADING (WHERE APPLICABLE) SHALL BE LIMITED TO USE OF EXISTING ROADS TO ACCESS THE PIPELINE ROW, TOPSOIL STOCKPILING, INSTALLATION OF SEDIMENT BARRIERS, AND MATERIAL STORAGE IN ACCORDANCE WITH THE LAND OWNER AGREEMENT.**
5. EROSION & SEDIMENTATION CONTROLS SHALL BE LEFT IN PLACE UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE PERMANENT STABILIZATION. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL BLANKET. THE BLANKET SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL NONWOVEN GEOTEXTILE SHALL BE MIRAFI 140N OR EQUAL.
8. FOR PERMANENT ROADS WITH PERMANENT IMPROVEMENTS, BROAD-BASED DIPS SHALL REMAIN AS PART OF THE PERMANENT IMPROVEMENTS.

105 COORDINATION NOTE:

THE CALCULATION OF FILL VOLUMES PROVIDED WITHIN THE CHAPTER 105 APPLICATION IS BASED ON THE EXTENT OF THE ACCESS ROAD LOD WITHIN THE FLOODPLAIN/FLOODWAY TO ACCOUNT FOR WORST-CASE FIELD SCENARIOS REQUIRING THE ADDITION OF A ONE FOOT-DEPTH OF GRAVEL FOR MAINTENANCE AND/OR MINOR ACCESS ROAD WIDENING FOR IMPROVED ACCESS. AS SUCH, THE FILL VOLUME IS AN OVERESTIMATION AND DOES NOT REFLECT THE ACTUAL VOLUME OF FILL REQUIRED BY THE CURRENT ACCESS ROAD DESIGN AS PRESENTED WITHIN THE CHAPTER 105 APPLICATION. THE INCLUSION OF THE OVERESTIMATED FILL VOLUMES WITHIN THE CHAPTER 105 APPLICATION LIMITS FUTURE REVISIONS TO THE CHAPTER 105 APPLICATION DUE TO MINOR FIELD ADJUSTMENTS; CONVERSELY, REVISIONS TO ACCESS ROAD DESIGN AFTER THE 102 PERMIT ISSUANCE WILL BE COORDINATED WITH PADEP/CCD.



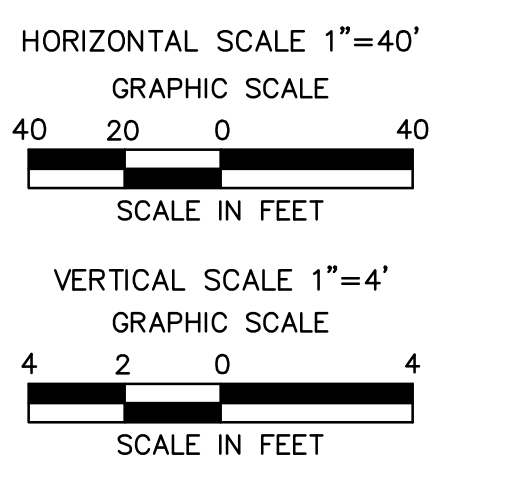
ACCESS ROAD LAYOUT



ACCESS ROAD PROFILE

No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L4	B 428259.10 E 428323.33	B 2446035.37 E 2446195.13	N68°05'47.80"E		172.18'		
C3	PC 428323.33 PI 428337.50 PT 428307.35	PC 2446195.13 PI 2446230.37 PT 2446253.47		74°26'52"	64.97'	37.98'	50.0'
L2	B 428307.35 E 428111.10	B 2446253.47 E 2446403.82	S37°27'20.31"E		247.22'		
C2	PC 428111.10 PI 428098.75 PT 428086.69	PC 2446413.28 PI 2446423.12		1°46'59"	31.12'	15.56'	1000.0'
L3	B 428086.69 E 427890.79	B 2446423.12 E 2446583.12	S39°14'19.12"E		252.93'		
C1	PC 427890.79 PI 427879.24 PT 427867.40	PC 2446583.12 PI 2446592.56 PT 2446601.65		1°42'36"	29.84'	14.92'	1000.0'
L1	B 427867.40 E 427455.58	B 2446601.65 E 24468917.98	S37°31'43.19"E		519.29'		

BEGIN STA	END STA	TYPICAL SECTION
0+00	2+50	E
2+50	3+50	N/A
3+50	12+95	G



PERMANENT ACCESS ROAD LU-013.1 @ MP 21.24

Drawn By & Date/Time: saking Jul 27, 2017 - 1:12pm
Drawing Location & Name: G:\J08514\14C\14C4909\DWG\010-CPLN\FA_PP14C4909(10)-PLU-013-1.dwg

ALARIC J. BUSHER
REG. NO. PE 60320

REVISIONS			
NO.	DATE	BY	DESCRIPTION
0	08/26/2015	BL	ISSUED FOR PADEP PERMIT SUBMITTAL
1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
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SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR NORTH
DIAMOND REGULATOR STATION & ASSOCIATED PERMANENT ACCESS ROADS
LEHMAN TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA
ACCESS ROAD LU-013.1 LAYOUT PLAN

DRAWN BY: JO	DATE: 04/03/15	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: A.B	DATE: 04/03/15	ISSUED FOR CONSTRUCTION:	REVISION: 6
APPROVED BY: AB	DATE: 07/17/15	DRAWING NUMBER: (36-7935)MF-1A-3	SHEET 7 OF 13
W.O. NO: 1161499	APP: A.B	NO. 1161499	